

PLAN REVIEW RESPONSE



August 1, 2018

Pamela Russell
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Civil Engineering
Land Surveying
Structural Design
Water Design
Aerial Technologies

RE: Structural Plan Review Response
Kingsbury – Project No. 8332
Lot 70 Powder Mountain

To whom it may concern,

The following responses address the Structural Plan Review Comments. The section and numbering correspond to the comment section and numbering provided in the original review comments.

STRUCTURAL COMMENTS

Structural Calculations:

S6. The passive, active and at rest pressures listed on page 3 of the calculations do not match those listed in the soil report. Please address.

Response: The soil report was received after the calculations were submitted. A letter, dated July 12, 2018, was written to address this. The new soil report has been reviewed, the passive, active and at rest pressures have been accounted for in the design. See updated calculations.

S7. The proposed structure includes in-plane discontinuity in vertical lateral force-resisting element irregularities as defined by Table 12.3-2 of ASCE 7-10. Please confirm that the requisite forces were increased as required by Sections 12.3.3.3 and 12.3.3.4 of ASCE 7.

Response: The Type 4 Vertical Irregularity was accounted for in the original design. The requisite forces were increased as required by Sections 12.3.3.3 and 12.3.3.4 of ASCE 7.

S8. The proposed structure includes nonparallel system irregularities as defined by Table 12.3-1 of ASCE 7-10. Please confirm that the requirements of Sections 12.5.3 and 12.7.3 of ASCE 7 have been met and that the requisite forces were increased as required by Section 12.5.3.

Response: The Type 5 Horizontal Irregularity was not considered in the original design. The lateral forces have been adjusted as required by section 12.5.3-12.5.4 of ASCE 7. See revised calculations. Section 12.7.3 requires a 3-D model of the structure, we did not perform a 3-D analysis. We feel that it is not requisite for this type of structure and it is not industry standard to perform 3-D analysis on single-family homes with non-parallel systems.

If you have any questions concerning these comments, feel free to contact us at any time.

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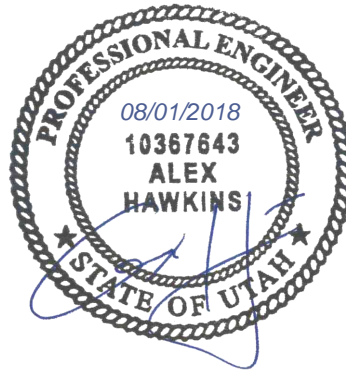
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Sincerely,



Alex Hawkins, PE
Project Engineer



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