



February 23rd, 2024

Michele Lorilla
City of Mercer Island
9611 SE 36th Street
Mercer Island, WA 98040

Subject: Fused Elements Residence
Building Permit
First Round Issues and Comments

Dear Ms Lorilla:

We have reviewed your peer review comments on the submitted Fused Elements Residence building permit from November, 2023. Please refer to R1 drawings dated February 23rd, 2024, for corrections referenced in our responses. Changes to the structural drawings related to these comments have been clouded for your convenience.

Several drawings have been revised since the 9/8 submission due to coordination efforts with the contractor and design updates. Associated changes have also been clouded in the R1 drawings set.

Please see our responses to comments below.

PERMIT COMMENT RESPONSES

1. *Comment: S2.00 – Please have geotechnical engineer review all the locations of the proposed helical anchors and provide recommendations for minimum distance between pipe piles and anchors. Please revise structural design if necessary.*

Response: The geotechnical engineer has recommended a 6” minimum clearance between helical piles and pin piles. This value has been added to Note B2 on revised sheet S2.00. The helical pile bidder-designer will need to coordinate with the contractor to maintain this minimum clearance. No revisions to the structural design are anticipated as a result of this.

2. *Comment: SH0.01 – Please revise design lateral soil pressures to reflect current design.*

Response: Design lateral soil pressures have been updated to match the Geotechnical Report and the submitted Structural Permit Calculations. Please see revised sheet SH0.01.

3. *Comment: SH2.01 – Please show actual proposed tieback lengths to verify that the tiebacks do not encroach onto adjacent property or revise design to eliminate encroachment.*

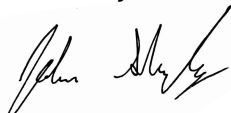
Response: Required minimum horizontal tieback lengths can be determined via the inclination angle and tieback length per 19/SH4.01. For clarity, these lengths have been calculated and shown on revised shoring plan sheet SH2.01. If tiebacks are encroaching on the adjacent property, an easement will be requested by the owner and architect.

4. *Comment: SH4.01 – Please check pile sizes, anchor depths, etc. to conform to structural calculations provided or provide revised calculations to reflect design presented in this schedule.*

Response: Information in 19/SH4.01 has been revised to match submitted Structural Permit Calculations.

If there are any further comments or questions, please feel free to call me at (206) 622-5822.

Sincerely,



John Shapley
Project Engineer



Amie Sullivan
Principal

JRS:AES

Enclosures
[Revised Permit Drawings]

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