

## Mercer Island Residence – Fire Code Alternate Request

9611 SE 72<sup>nd</sup> Street, Mercer Island, WA 98040

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<b>Date</b>	04/20/22
<b>Distribution</b>	City of Mercer Island DSG
<b>Project Number</b>	2011-147

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Per the Fire Plan Review provided by the Mercer Island fire department via email on 09/22/21 the following deficiencies exist:

1. Fire Access Road
  - a. Width
    - i. Minimum width required = 26'
    - ii. Existing Width = 13.39'
  - b. Grade
    - i. Maximum grade = 10%
    - ii. Existing grade = 11.2%
  - c. Distance to rear of home
    - i. Maximum = 150'
    - ii. Provided = 200'
2. Fire Flow
  - a. Required = 1000 GPM (with sprinkler system)
  - b. Existing = 500 GPM
3. Hydrants
  - a. Required = 2 hydrants
  - b. Existing = 1 hydrant

Requested fire code alternate:

1. Fire Access Road
  - a. **Proposed fire code alternate:** Provide an NFPA 13R fire sprinkler system, noted on sheet G000.
  - b. **Proposed fire code alternate:** Provide an NFPA 13R fire sprinkler system at the attic where there is mechanical planned, noted on sheet G000.
  - c. **Proposed fire code alternate:** Provide 1-HR type-x gypsum throughout the new residence, noted on sheets A700 and A701.
3. Fire Flow
  - a. **Proposed fire code alternate:** Provide an NFPA 72 household monitored fire alarm system per NFPA 72 Chapter 29, noted on sheet G000.
4. Hydrants
  - a. **Proposed fire code alternate:** Provide solid-core doors at all locations throughout the house, noted on sheet A600.

We request that our proposed fire code alternates be accepted by the City of Mercer Island based on the fact that they are equivalent to or better than the requirements of the IFC in regard to fire life safety.

Respectfully,

  
Kate Miller