



S T U R M A N
A R C H I T E C T S

Date: March 13, 2025

To: City of Mercer Island – Fire Department

From: Kati Eitzman
Sturman Architects

Re: Forest Creek – Lot 1
5222 Forest Ave. SE
Mercer Island, WA 98040
Permit # 2410-056

Subj.: FIRE CODE ALTERNATE SUBMITTAL – 1

This letter is submitted as our request for a fire code alternate based on the Fire Review completed as part of the building permit review. The project being reviewed is a new two-story single-family residence built over crawlspace with an attached two-car garage.

The following deficiencies were noted during the Fire Review of our project:

1. Fire flow (872 gpm) < required (1,000 gpm) even with sprinkler exception (13R design required).
2. Distance from all points to access road = 385' vs. 150' required.
3. Dead-end access road (>150') without turnaround.
4. Access road <500' = 12-17' vs. 20' required.

For these deficiencies, we proposed the following fire code alternates:

1. Monitored Household Fire Alarm System, per NFPA 72, Chapter 29.
2. Upgrade to NFPA 13R sprinkler system
3. Installation of 1-hr rated gypsum in all areas
4. Provide solid core or fire rated doors

We believe the proposed is equal to or better than the code requirement.

Sincerely,
Kati Eitzman
Sturman Architects