



Mercer Island Fire Marshal Office
3030 78th Avenue SE
Mercer Island, WA 98040
(206) 275-7966

Permit No: [ ]

FIRE PLAN REVIEW

Address: \_\_\_\_\_

1. PROJECT TYPE

- NSF
Alteration or Addition

Valuation Ratio (based on Fire Area Worksheet)
Proposed Work / Assessed Value = %
Exempt structure - detached garage or similar non living space structure
Less than 10% (fire review not required)
10 - 49% (monitored Household Fire Alarm System per NFPA 72 Chapter 29, if fire deficiency)
50% or greater (substantial alteration)

2. FIRE AREA

- Fire Area = \_\_\_\_\_ square feet (sf) (from Fire Area Worksheet)
≥ 10000 SF Requires a NFPA 13R or 13 sprinkler system (use 13R sprinkler system as base)

3. FIRE FLOW

Hydrant ID# \_\_\_\_\_ PSI \_\_\_\_\_
Flow Required \_\_\_\_\_ GPM @ 20 psi (from IFC table B105.1)
With Sprinkler Reduction \_\_\_\_\_ GPM @ 20 psi (50% reduction)
Available \_\_\_\_\_ GPM @ 20 psi (Max of 500gpm for a 2-port hydrant)
Does not meet fire flow even with sprinkler reduction (use 13R sprinkler system as base)
Does not meet fire flow due to no sprinkler reduction credit.

4. HYDRANTS

- Number Required: \_\_\_\_\_ Spacing \_\_\_\_\_
Number Available: \_\_\_\_\_ Spacing \_\_\_\_\_
Distance from all building points to hydrant \_\_\_\_\_ (300' Max, 600' W/ Sprinklers)

## 5. FIRE ACCESS ROADS

---

---

- Distance from all points to access road (150'). \_\_\_\_\_
- Length provided: \_\_\_\_\_ ft.
- Width Required: \_\_\_\_\_ (< 500' = 20, ≥ 500' = 26')
- Width provided:  ≥ 16'    12' - 16'  
 ≤ 12' Code Alternate Required
- Radius provided (minimum 28' inside/45' outside): \_\_\_\_\_ ft.
- Turnaround provided:  None    Sub Standard    Standard    N/A
- Grade Provided:  < 10'    < 15'    < 20'   Current \_\_\_\_\_ %  
 > 20' Code Alternate Required

## 6. FIRE REQUIREMENT

---

---

- No Fire Requirement
- Monitored Household Fire Alarm
- 13D Fire Sprinkler System
- 13R Fire Sprinkler System
- Code Alternate Proposal