Date: _____
Tax Parcel: _____
Address: _____
Reviewer: _____

MECHANICAL – PLUMBING - FIRE

PLEASE SEE INSTRUCTIONS FOR SUBMITTAL REQUIREMENTS ON THE BACK OF THIS FORM.

Submittal Standards The number indicates the number of copies required.	MECHANICAL	MECHANICAL HOOD AND DUCT	PLUMBING		FIRE ALARM SYSTEM	FIRE SPRINKLER SYSTEM	SPECIAL FIRE SUPPRESSION		REQUIRED
Calculations	2	2			2	2	2		
Electric Alarm Plans					2	2	2		
Equipment/ Fixture List	2	2	2		2	2	2		
Floor Plan	2	2	2		2	2	2		
Gas Piping Diagram	2								
Grease/Trap Interceptor Plans			2						
Hood Design Drawings		2							
Isometric Drawings			2						
Mechanical System Drawing	2								
NREC Compliance Form	2								
One Hour Rated Shaft Detail		2							
Riser/Underground						2			
Roof Load Calculations	2								
Sectional Plan					2	2	2		
Site Plan	2	2			2	2	2		
Sprinkler Plan						2			
Suppression Plan		2					2		
Vicinity Map	2	2	2						
Water Letter						2			

Submittal Standards Instructions

Calculations: Structural calculations are required for all structural members supporting equipment greater than 350 lbs. each. List remote area, occupancy and hazard type, assumptions used, square footage calculated, number of heads, code or standard used. VIAQ calculations req. for mechanical.

Electric Alarm Plans: Inter-tie locations and details; material list (type of heads, valves, etc.)

Equipment List: Provide a copy of the manufacturers specifications noting the make, model and efficiency rating of each unit and weight of each unit.

Floor Plan: Provide a written description of all work to be done. Show the location of all fixtures, existing and proposed, and identify the fixture type. Identify the use of each room. Show all equipment, duct and diffuser locations and identify each zone. Note duct sizes and any penetrations through fire-resistive assemblies or protected areas. Locate all fire and/or smoke dampers if required by UBC section 713.10 & 713.11.

Gas Piping Diagram: Provide isometric drawings and show developed length of piping from gas meter to each fuel burning appliance with pipe sizes noted. Provide the BTU rating of each appliance served and length of each branch.

Grease/Trap Interceptor Plans: Need calculations, 4+ fixtures requires engineered calculations, plans must show location of drain waste vent.

Hood Design Drawings: Identify hood sizes, shaft sizes, shaft rating, air flow calculations, hood classification, separation between makeup and fresh air. Include the following views: plan, elevation, front, and wall details and locations.

Isometric Drawings: Show location of all fixtures, vents and clean-outs. Give sizes of all D/W/V pipe with lengths noted and type of material used. Note the Drainage Fixture Unit (DFU) for each fixture per UPC Table 7-3. Show locations of all water lines with pipe sizes noted and type of material use. Include the thermal expansion tank design used as required. Note the Water Supply Fixture Unit (WSFU) for each fixture per UPC Table 6-5.

Mechanical System Drawing: Provide bracing anchorage detail and locations. Provide details demonstrating compliance for combustion air for fuel burning appliances and the locations of all vent terminations with the distance to all openings within 10' noted. Cross reference with the "MECH-CHIC NREC" form.

NREC Compliance Form: Non-Residential Energy Code form (envelope, mechanical, lighting).

One Hour Rated Shaft Detail: Include name of testing agency and listing number.

Riser/Underground: Location and details from main to riser. Show P.I. valve, check valves, FDC, connection to system riser, fire hydrant locations.

Roof Load Calculations: Required if roof mounted equipment exceeds 350 pounds.

Sectional Plan: Show section views for all areas that require detailed analysis for installation.

Site Plan: North arrow; building footprint, fire hydrants; access roads and parking; dimensions of all accessible parking and access aisles.

Sprinkler Plan: Must be designed by a Washington State certified contractor approved for sprinkler design.

Suppression Plan: Must include: size of supply bottle, diagram of piping, nozzle fixture units and nozzle cut-sheets, manual shut-off location. Fire suppression design in accordance with nationally recognized standards.

Vicinity Map: Can be included on the site plan.

Water Letter: Certificate of water availability and water vicinity map from water purveyor.