



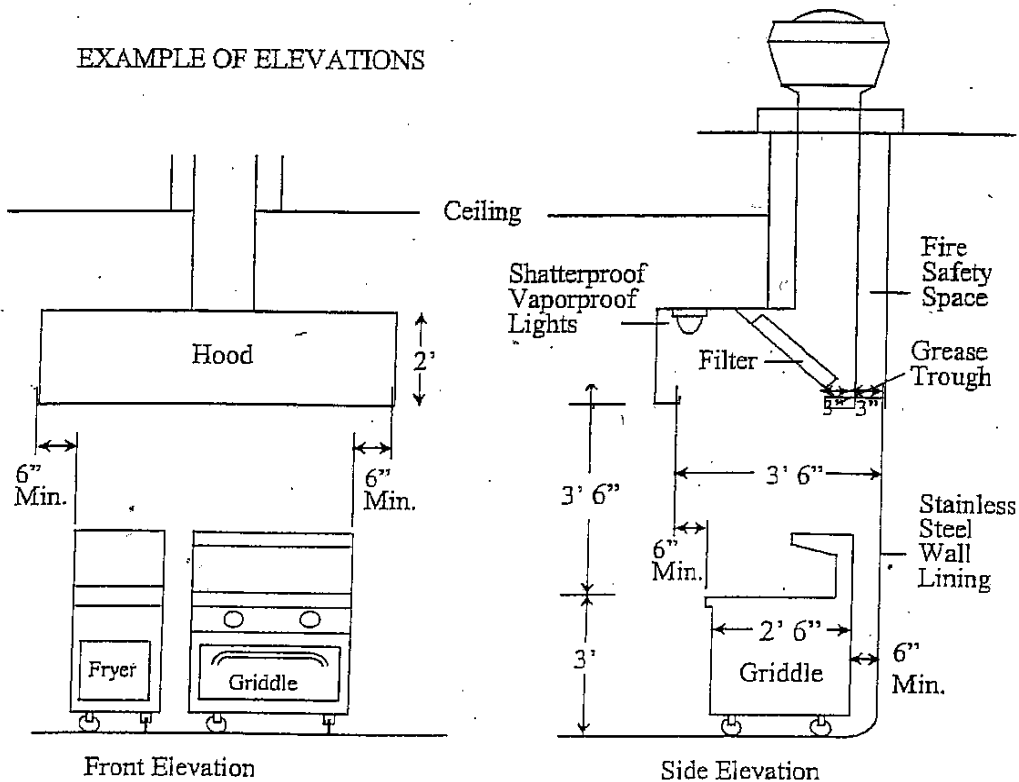
Humboldt County Department of Health and Human Services Division of Environmental Health

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REQUIREMENTS FOR HOOD PLANS

- Provide 3 sets of plans using scale of 1/4 inch per foot, including:
 - **Hood Worksheet** (see back of this page)
 - **Plan view:**
 - Outline of hood over cooking equipment
 - Clearances around equipment and to walls
 - Exhaust and make-up air ducts
 - Exhaust and make-up air fans on roof
 - Make-up air diffusers on ceiling
 - Make and model of equipment and fans
 - All dimensions of equipment and ducts
 - **Front & Side Elevations showing:**
 - Cooking equipment
 - Hood overhang
 - Duct elbows & fans
 - **Type & gauge of metal used in hood & ducts**
 - Specify if hood is Type I, Type II, UL Listed, non-canopy, compensating, etc.
 - Name, address, and phone number of facility hood designer
- Submit one set of manufacturers' specification sheets (cut-sheets) for:
 - Cooking equipment
 - Exhaust fan
 - Make-up air fan
 - UL listing card for hood system
- Plans shall conform to Uniform Mechanical Code

EXAMPLE OF ELEVATIONS



HOOD WORKSHEET

Facility Name: _____

Address: _____



COOKING EQUIPMENT AND HOOD

- Fill in cooking equipment and hood dimensions in overhead view.
- Casters and quick disconnects **strongly** recommended! Specified? Yes___ No___
- Hood long enough to allow \square 6 in. on sides of equipment? Yes___ No___
- Hood wide enough to allow \square 6 in. front and back of equipment? Yes___ No___
- Canopy lip \square 6.5 ft above floor and \square 4 ft above cooking surface? Yes___ No___
- Canopy free of exposed horizontal electrical and Ansul lines? Yes___ No___

AIR FLOW REQUIRED FOR CAPTURE (CFM)

- Make and model of hood? Length _____ ft x Width _____ ft = _____ Sq ft
- Hood Opening: Sq ft x (Q factor from UMC) = _____ CFM
- Other Formula? _____ = _____ CFM

VELOCITY REQUIRED AT FILTER BAFFLES FOR GREASE SEPARATION (FPM)

- Height _____ in x Width _____ in = _____ Filter size sq in
- Number of filters _____ x Useable area per filter _____ sq ft = _____ Total filter area sq ft
- _____ CFM \div _____ sq ft (total filter area) = _____ FPM
- Baffle filter ideal = 300 FPM. Must be 250 – 350 FPM. Is It? Yes___ No___
- Horizontal slot filter ideal = 1000 FPM. Must be 800 – 1200. Is it? Yes___ No___ N/A___
- FPM can be more or less than above if this is a “LISTED” hood. Is it? Yes___ No___
- Total filter widths (_____ inches) must be less than hood length. Is it? Yes___ No___

DUCT VELOCITY FOR EXHAUST TO EXTERIOR (FPM)

- Duct dimensions: _____ in x _____ in \div 144 (sq in /sq ft) = _____ sq ft duct cross-section
- Hood longer than 12 ft. is provided with more than 1 exhaust outlet to main duct? Yes___ No___ N/A___
- _____ CFM of hood flow \div _____ sq ft duct cross-section = _____ FPM
- Duct ideal = 1800 FPM. Must be 1500 – 2500 (for Type I hood). Is it? Yes___ No___ N/A___

STATIC PRESSURE (SP) AND EXHAUST FAN (CFM)

- Number of elbows = _____ Cleanout at each elbow? Yes___ No___ N/A___
- Static Pressure \approx _____ in. SP
- Exhaust Fan: Make _____ Model # _____ HP _____

