

Environmental Health � 625 5<sup>th</sup> Street, Santa Rosa, CA 95404 � 707-565-6565 � <u>EH@sonoma-county.org</u> https://sonomacounty.ca.gov/Cannabis-Program/

# **PLAN REVIEW PACKET**

# EDIBLE CANNABIS MANUFACTURING FACILITIES





# The Plan Review Packet Includes:

- 1. Procedure for Edible Cannabis Manufacturing Facility Plan Review and Approval
- 2. Quick Reference for Building Departments
- 3. Flooring Guidelines
- 4. Hot Water Heater Worksheet
- 5. Requirements for Mechanical Exhaust Ventilation Plans
- 6. Plan Review Application

TO: Contractors, Consultants and Facility Owners

- **SUBJECT:** Procedure for Edible Cannabis Manufacturing Facility Plan Review and Approval
- **BACKGROUND:** Sonoma County Code requires that all cannabis facilities that manufacture edible cannabis products obtain a health permit. Environmental Health requires plan review approval prior to construction on all new facilities. Plan reviews and inspections will be based on relevant sections of the California Retail Food Code (CALCODE) and related state regulations.

#### New Edible Manufacturers

Environmental Health will review plans within 20 working days of receipt. If plans are not approved, a notice will be sent to the applicant detailing additional information needed. Plans may be submitted via mail and must be accompanied with a completed Plan Review Application and required fees. Environmental Health will not begin the plan review process until all plan review fees, the application and required plan documents and copies are submitted.

Upon completion of plan review, two of the three approved sets of plans must be picked up by the applicant or a representative of the applicant. The yellow copy of the approved Plan Review Application is attached to the applicant's copy of the plans and shall remain at the construction site. The pink copy of the approved Plan Review Application is attached to the set of plans designated for the local building department and must be signed by them. It is the responsibility of the applicant to submit the pink set of plans to the building department and obtain necessary building permit(s). **The building permit(s) cannot be issued without plan review approval from Environmental Health.** It is the responsibility of the applicant to obtain a use permit from the building department (if required).

Construction of your project must be completed, final construction approval must be granted by Environmental Health and verification of approval from the jurisdictional building department obtained before the applicant may submit a Cannabis Facility Health Permit application. Contact this office at (707) 565-6565 at least one week prior to your completion date to schedule a construction inspection.

## Additional Information for Submitting a Plan Review Application

The following information is necessary for timely review and approval. Many of the items presented below may not apply to your facility. Please review the list carefully and be sure to provide the required information where applicable.

- Complete and sign the **Plan Review Application and pay the required fee** (see fee schedule). New construction plan review fee begins with a ten-hour fee. Plans will not begin the review process without completion of a plan check application and payment of the required fees. Plan check review, construction inspection(s) and travel fees are separate from the operational permit fee. Plan check fees are a prepaid estimate of time and are based on the current hourly rate fee (see fee schedule). Any additional time over the plan check fees will be invoiced after the project is complete.
- Submit **THREE** sets of detailed plans and **ONE** set of manufacturer equipment specification sheets, plus **ONE** electronic set of the plans and manufacturer equipment specification sheets. Electronic documents may be submitted in PDF format via CD, flash drive or, if under 1 MB, email to <u>eh@sonoma-county.org</u>. Please be sure to include your cannabis facility's name in the subject line.
- Scale: Plans shall be drawn to a minimum scale of 1/4" = 1 foot. Identify each room or area on the plans.
- **Site plan:** Submit details of the entire site, including proximity to road, driveway, parking, building footprint, other structures/infrastructure and refuse enclosure.
- **Floor plans:** Submit plans of the entire facility including plumbing layout, electrical layout, reflected ceiling plan, equipment layout details and equipment elevations.

- Square footage: Provide square footage of the cannabis facility.
- Menu for Edible Cannabis Products to be produced in a manufacturing site: Submit a list of Edible Cannabis products including raw ingredients to be manufactured at an Edible Cannabis Manufacturing Site.
- **Equipment schedule:** Include manufacturers' specification sheets and the method of installation for all equipment. Service sinks must meet applicable National Sanitation Foundation (NSF) standard.
- **Finish schedule:** Specify materials and finishes for floors, floor bases, walls, ceiling, shelving and cabinets. This schedule should include the type of material and the surface finish. Give specific brand names. Samples or specifications of proposed finish materials may be required. See handout "Flooring for Food Establishments." (Note: Flooring requirements for food facilities will apply to edible cannabis manufacturers.)
- **Mechanical exhaust ventilation:** Hoods shall be installed over all equipment that produce heat, gases, smoke or vapors. Refer to the current edition of the Uniform Mechanical Code (UMC), Chapter 5, for requirements. For each hood, provide plans, completed hood work sheet and other information as specified on "Requirements for Hood Plans" form, available at the office or exhaust hood manufacturer's hood specification sheet.
- **Plumbing plan:** Show a complete plumbing layout and water heater location. If more than one water heater is proposed please identify the units and connections. Floor sinks must be accessible for cleaning and installed flush with the floor finish. Include specification sheets for all food service sinks. All service sinks must meet NSF standards.
- **Toilet facilities:** Toilet facilities are required for each edible cannabis facility and must be employee accessible. Contact your local building department for specific American with Disabilities Act (ADA) requirements regarding toilet room design and number of required restrooms prior to submitting plans to this office.
- Water heater: Specify size and output in BTU/hour, KW or GPM of the water heater. If fixtures are located more than 60 feet from the water heater, a recirculation pump must be installed. See "Guidelines for Sizing Water Heaters" available from this office for additional requirements. If more than one water heater is proposed, identify the units and connections. Water heater minimum sizing requirements will be calculated by the plan checker and stamped on the plans for gas (BTU), electric (KW) and on demand/instantaneous water heaters (GPM). If you are proposing an on-demand water heater please include the name and model number.
- **Handwash sink(s):** A sink to be used exclusively for handwashing with hot and cold water must be provided within every cannabis manufacturing facility, and shall be equipped with mounted soap and towel dispensers. Hand wash sinks must be easily accessible.
- **Dishwashing:** A 3-compartment stainless steel sink with dual integral drain boards may be required. The sink must be capable of accommodating the largest utensil (dish or pot) to be washed. Each drain board shall be as large as the sink compartments. The 3-compartment sink must drain to a floor sink (or other equivalent receptacle) via an indirect connection with a one-inch air gap space above the top rim of the floor sink. An automatic dishwashing machine or glass washing machine with high temp or chemical sanitizer may be added in addition to a 3-compartment sink.
- **Preparation sink:** Facilities that perform edible cannabis manufacturing activities such as thawing, rinsing, or soaking are required to have a separate stainless-steel food preparation sink that meets NSF standards. Minimum size of a preparation sink is 18 x 18 x 12 inches with either a single integral drain board 18 x 18 inches or an adjacent table 18 x 18 inches or larger. If the preparation sink is located closer than two feet from a hand sink or 3-compartment sink, a six-inch splash guard is required. The

preparation sink must drain to a floor sink (or other equivalent receptacle) via an indirect connection with a one-inch air gap above the top of the rim of the floor sink.

- **Mop sink:** Provide an approved janitorial sink with hot and cold water and backflow protection. Submit a specification sheet. The sink shall be located to prevent contamination of any preparation areas, storage areas, utensils, or equipment. A wall or enclosure may be required depending on location of the mop sink. Provide space for storage of a mop bucket and cleaning supplies. A curbed utility wash-down area may be used in lieu of a mop sink. Mop sink/janitorial areas are required to have acceptable flooring (refer to the flooring guidelines). The walls around the mop sink must be of an impervious material: either Fiberglass Reinforced Plastic (FRP) or tile to eight feet or ceiling height and a reasonable splash distance to the sides.
- **Employee clothes storage:** For manufacturing facilities, a room, enclosure, or designated area separated from toilets, product storage and preparation areas and utensil washing areas must be provided where employees may change and store clothes. Facilities with fewer than 10 employees per shift can meet this requirement by providing employee lockers or similar cabinets.
- Storage of Food: A dedicated storeroom area shall be provided. Adequate and suitable space shall be provided for the storage of food. Food shall be protected from contamination by storing the food in a clean, dry location, where it is not exposed to splash, dust, vermin or other forms of contamination or adulteration, and at least six inches above the floor. This area must include cleanable shelves. Shelves must be located to allow for six inches of clear space between the floor and the bottom shelf.
- Storage of Cannabis Products/Inventory: Cannabis and cannabis products shall be stored in a building designed to permit control of temperature and humidity and shall prevent the entry of environmental contaminants such as smoke and dust. The area in which edible cannabis goods are stored shall not be exposed to direct sunlight. Operators shall store harvest batches and edible cannabis products that require refrigeration at 35 to 42 degrees Fahrenheit. In addition, harvest batches shall be stored in a darkened area with no more than 60% humidity. Storage areas must be under continuous video-monitoring and recording and secured in accordance with their Security Plan.
- **Lighting:** Shatterproof shields are required on lights above product preparation areas, utensil washing areas, and where open food and/or cannabis products are stored. At least 50-foot candles of lighting intensity shall be provided in areas where employees are working with food, edible cannabis products or working with utensils or equipment.
- **Refuse:** All cannabis waste shall be quarantined, secured and rendered unusable and unrecognizable under video monitoring and shall be disposed of as stipulated by State and county regulations.
- Water supply: The water supply shall be from a water system approved by the Health Officer or the California Department of Public Health, Drinking Water Division. Water wells must be permitted and approved by the California Department of Public Health, Drinking Water Division. Provide appropriate documentation for state regulated transient non-community water systems and non-transient non-community water systems.
- **Sewage disposal:** The establishment must be connected to a municipal sewer system or an individual sewage disposal system. If the operation is to be served by an individual sewage disposal system, contact the Sonoma County Permit and Resource Management Department for current requirements.
- Walk-in refrigeration/freezer units: Walk-in refrigeration and freezer units must open directly into the facility.



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# **Quick Reference for Building Departments**

**City of Cloverdale** 126 N. Cloverdale Blvd. Cloverdale, CA 95425

**City of Cotati** 201 W. Sierra Ave. Cotati, CA 94931

**City of Healdsburg** 435 Allan Ct. Healdsburg, CA 95448

**City of Petaluma** 11 English St. Petaluma, CA 94952

**City of Rohnert Park** 130 Avram Ave. Rohnert Park, CA 94928

**City of Santa Rosa** 100 Santa Rosa Ave. Santa Rosa, CA 95401

**City of Sebastopol** 7120 Bodega Ave. Sebastopol, CA 95472

**City of Sonoma** 1 The Plaza Sonoma, CA 95416

**Town of Windsor** 9291 Old Redwood Hwy. Windsor, CA 95492

Permit Sonoma 2550 Ventura Ave., Santa Rosa, CA 95403 Unincorporated Sonoma County Forestville Guerneville Bodega Bay Bodega Occidental Graton Geyserville Penngrove Community Development 707-894-1701 www.cloverdale.net

Building Department 707-665-3636 www.ci.cotati.ca.us

Community Development 707-431-3346 www.ci.healdsburg.ca.us

Community Development 707-778-4301 www.cityofpetaluma.net

Development Services- Building 707-588-2240 www.ci.rohnert-park.ca.us

Community Development 707-543-3200 http://ci.santa-rosa.ca.us

Building Department 707-823-8597 http://ci.sebastopol.ca.us

Building Department 707-933-2205 www.sonomacity.org

Building Department 707-838-5341 www.ci.windsor.ca.us

PRMD-Building Department 707-565-1900 www.sonoma-county.org/prmd



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# **FLOORING GUIDELINE**

When installing a new floor or replacing an existing floor, contact our office to ensure the floor and base meet current requirements. Existing edible manufacturing facilities will have a transition period to August 31, 2017 to install approved flooring.

The California Retail Food Code (CALCODE) Section 114268 states the following:

- (a) Except in sales areas and as otherwise specified in subdivision (d), the floor surfaces in all areas in which FOOD is prepared, prepackaged, or stored, where any UTENSIL is washed, where REFUSE or garbage is stored, where janitorial facilities are located in all toilet and handwashing areas shall be SMOOTH and of DURABLE CONSTRUCTION and nonabsorbent material that is EASILY CLEANABLE
- (b) Floor surfaces shall be coved at the juncture of the floor and wall with a 3/8-inch minimum radius coving and shall extend up the wall at least four inches, except in areas where FOOD is stored only in unopened bottles, cans, cartons, sacks or other original shipping containers.

The following floor types will meet the above CALCODE requirements:

**Full kitchens** (containing cooking equipment), **sculleries, meat or fish preparation areas**, **bars**, **bakeries**, and any areas with a power wash down:

- 1. Quarry tile (any color) with a four-inch quarry tile coved base. Epoxy grout is recommended.
- 2. Seamless troweled on epoxy floor (not paint) <sup>1</sup>/<sub>4</sub> inch minimum thickness with a four-inch self-coved base.
- 3. 100% homogenous vinyl flooring recommended by the manufacturer for use in commercial kitchens. The floor must have heat-welded seams and a four-inch self-coved base.

Limited food preparation areas, service areas such as delicatessens, sandwich shops, espresso shops,

areas behind service counters, employee change areas and janitorial rooms:

- 1. Those floors listed above for full kitchens.
- 2. The minimum flooring required is a commercial grade sheet vinyl having chemically-welded seams with a four-inch self-coved base.

Toilet facilities (employee or customer use)

- 1. Those floors listed for full kitchens and limited food preparation areas
- 2. Ceramic tile with four-inch coved base tile

**Dry storage areas** (all prepackaged, no open food containers, no food preparation, no sinks, no refrigerators and no ice machines):

- 1. Those floors listed for full service kitchens and limited food preparation areas.
- 2. The minimum flooring required is vinyl composition tile (VCT) with a four-inch vinyl/rubber top set coved base.

## Walk-in refrigerators and freezers:

- 1. Metal floor and coved base installed as part of the NSF or equivalent walk-in.
- 2. Quarry tile with a quarry tile coved base or metal cove base provided by the manufacturer. Epoxy grout is recommended.
- 3. Seamless troweled on epoxy (not paint) minimum 1/4-inch-thick, 3/8-inch coved base supplied by the walk-in manufacturer.

4. New <u>smooth</u>, sealed concrete with four-inch coved concrete base, quarry tile cove base **or** metal coved base supplied by the walk-in manufacturer.

# Dining area flooring materials are up to the discretion of the ownership. Mixed use or self-serve area requirements will be based on limited food preparation flooring requirements shown above.

## **Floor Drains**

Upon new construction or extensive remodeling, floor drains shall be installed as follows:

- 1. In floors that are water-flushed for cleaning.
- 2. In areas where pressure spray methods for cleaning equipment are used.
- 3. In toilet facilities, floor drains are recommended, but not required.

#### **Floor Sinks**

For new construction or additions where floor sinks are required, the floor sinks must be flush mounted. Floor sinks must have adequate grates to prevent injury and be accessible for regular cleaning.

## Please submit samples of new materials not listed for review and approval prior to installation.



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# WATER HEATER SIZING WORKSHEET

ESTABLISHMENT					Date	
ADDRESS						
Fill in Applicable Fixtures	# Units	x	GPH	=	Total GPH	GPM
3-Compartment Sink (" x" x")	3 (basins)			_ =		
*Pre-Rinse Unit for 3-Comp Sink				_ =		
Bar 3-Compartment Sink				_ =		
Hand Sink(s), Including Restrooms				_ =		
*Prep. Sink w/Faucet or Pre-Rinse				_ =		
Dishwasher #1				_ =		
Dishwasher #2				_ =		
Mop Sink w/Backflow Faucet				_ =		
Pre-Rinse w/Scrap Tray				_ =		
				_ =		
*Compare the pre-rinse GPH to the GPH for the sink fixture, use the largest value.	Total GPH Tank Units	=		_	Total GPM=InstantaneousAt a 60°F rise in temp	
Total GPH x % (See sizing	g requirements	belo	w) =		GPH required	
Formula for Gas water heaters						
GPH required x 60°F rise x 11 =	Tota	I BT	U input			
Formula for Electric water heaters						
GPH required x 0.149 =	Total KW in	put				
SIZING REQUIREMENTS FOR STORAGE WA		<b>2S</b> (n	ot instanta	neou	s water heaters)	
A. Food facilities with multi-service eating utens		•			100% GPH r	equired
B. Food facilities with multi-service eating utens		-	-		90% GPH r	•
C. Food facilities with single-service eating utensils, or don't use utensils at all 80% GPH required						
D. Food facilities that sell only prepackaged food				stora		-

be provided.

# WATER HEATER SIZING WORKSHEET

#### 3-Compartment utensil sinks

18" x 18"	14 gallons per compartment
24" x 24"	25 gallons per compartment

Custom sink sizes can be calculated using the following formula:

Length (ft) x Width (ft) x Depth (ft) x 7.5 = gallons per compartment

#### **Bar 3-Compartment Sinks**

6 gallons per compartment

#### Pre-Rinse Units

Hand spray type: Other type: 45 gallons Refer to manufacturer's specifications for the equipment

Prep Sinks

5 gallons per sink

# Janitorial(Mop) Sinks and Mat Washing Areas

15 gallons per sink or facility

<u>Employee Shower</u> 20 gallons per shower

45 gallons

60 gallons

Hand Sinks

5 gallons per sink

**Clothes Washers** 

16 lb. washers

9 and 12 lb. washers

Other Fixtures That Use Hot Water Refer to manufacturer's specifications for the equipment or NSF® listing.

## Instantaneous Water Heaters (On-Demand)

Instantaneous water heaters must be sized to provide **120°F** water at a **60 degree rise** and at a rate of at least **2 GPM to each sink** (hand sinks must receive at least ½ GPM). NSF listings are used to determine the minimum GPM hot water demand for commercial dishwashers.

## Refer to the instantaneous water heater unit manual to verify sizing.

For additional information on sizing and installation of water heaters, see *Guidelines for Sizing Water Heaters* available at the Environmental Health & Safety offices.

## \*\*If more than one water heater is proposed for the facility please identify the units and connections.

# All approved plans are stamped with the minimum requirements for tank style gas, tank style electric, and instantaneous water heater units.



# **REQUIREMENTS FOR HOOD PLANS**

- Provide 3 sets of plans, 1/4-inch per foot, containing:
  - Hood Worksheet on the 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
    - All dimensions of equipment and ducts
- Front and side elevations showing:
  - Cooking equipment
  - Hood overhang
  - Duct elbows and fans
- Type and gauge of metal used in hood and ducts
- Specify if hood is Type I, Type II, UL Listed, noncanopy, compensating, etc.
- Name, address and phone number of facility and hood designer
- Submit one set of cut-sheets (manufacturers' specification sheets) for:
  - Cooking equipment Exhaust fan Make-up air fan UL Listing Card for hood system (if applicable)
- Plans shall conform to Uniform Mechanical Code



# **Hood Worksheet**

Facility Name
---------------

Address

/ ddi 000						
Cooking and Equipment				Wall		<u>↑</u>
Hood Fill in cooking equipment and hood dimensions in feet in the overhead view to the right.	Name of Equipment Iter	n Equipment Iten		Rim of Front Gu	utter —	
Casters and quick disconnects <b>st</b> Gas line should exit wall ≥24" abo			k disconnect gas line	Y	Ν	<b>→</b>
Specified?			-	Y	Ν	
Hood long enough to allow $\ge 6$ " or Hood wide enough to allow $\ge 6$ " ir Canopy lip $\ge 6.5$ ' above floor and Canopy free of exposed horizonta	n front and back of e ≤ 4' above cooking	equipment? surface?		Y Y	N N N N	
CFM What kind of hood?						
Hood openingft x		sq. ft x	Q factor from CMC	=	(	CFM
Length Other formula?	Width			_ =	(	CFM
Filters Filter size "H x	"W	x	sq. ft =		sq. ft	
CFM ÷ Baffle filter ideal fpm = 300; shoul Horizontal slot filter ideal fpm = 10 Fpm can be < or > above if this is Total of filter widths (") <b>Duct</b>	sq. ft <i>(total filter are</i> d be 250-350. Is it 000; should be 800- a "LISTED" hood.	ea) = 1200. Is it? Is it?	fpm	Y Y	N N N	NA NA
Duct dimensions: Hood >12 ft long shows > 1 exhau	_" X	<u>"</u> =	_" ÷ 144 =	sq ft Y	N	NA
CFM ÷ Fpm should be ≈ 1800; must be 1	sq. ft = $\frac{500.2500}{7}$	fpr	n	······································	N	NA
Static Pressure and Exhaust Fa # of elbows = Cleanout at each elbow?	in				IN	
Cleanout at each elbow?		Model #		<u></u> Ү НР	Ν	NA
Exhaust fan: Make UL 762 Restaurant Application sp Easily pulls CFM at SP?	ecified for Type I?			Y	N N	
Make-Up Air						andad
CFM ÷ 2000 CF Make-up air static pressure ≈ Make-up air fan: Make Supplies 95-100% of exhaust CFI	-M=	Next higher who _"SP Model #		H.P.		ended
Supplies 95-100% of exhaust CFI	M at SP?			<u> </u>	N	
Make-up air on roof $\ge$ 10 ft from e Diffusers on ceiling $\ge$ 10 ft from he Exhaust and make-up air interlock	xhaust? ood?			Y Y	N N N	
Prepared by:		Phone #			/	/
ivame		Frione #	Company		Dat	le



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## CANNABIS PLAN REVIEW APPLICATION CANNABIS SITE EVALUATION FORM

APPLICANT:	Complete all areas below (please prin	nt or type), sign and date below, and sub	omit to Environmental Health	and Safety with the applicable fee.
	□ New Construction □ □ Dispens	□ Remodel Existing Cannabis Facil ary □ Edible Manufacturing I		ərship
Facility Name			Sq. Ftg. of Faci	ility Interior
Site Address		Ste #	City	Zip
Business Owner	Name(s)	Phone	Ema	il
Mailing/Billing Ad	ldress	Ste #	City/State	Zip
Contact Person _		Phone	Email	l
Mailing Address		Ste #	City/State	Zip
SCOPE OF WOF	RK:			
	I Public □ Private Well* Sewage D Water Branch clearance is required p	•	,	
Change of Owner	ership/ Proposed First Date of Operation	on		
Additional information	ation for a change of ownership of an	edible cannabis manufacturing faci	ility or a cannabis microbu	siness may be required.
for cannabis facili submitted. It is th cannabis facility u time) are separat fee schedule). Bu • Any adu • All final • The Ca	t these plans will be approved or disapplicant's responsibility to obtain a until it has received an approved set of the from the operational permit fee. Platefore opening for business, the followed in the beyond the initial paid plate construction must be approved annabis Facility operational permit applicant be received annabis Facility Permit must be received annabis Facility Permit	ironmental Health. The plans will no all necessary building permits. The b of plans from this office. Plan check in check fees are a prepaid estimate ving must be completed: an check fees must be paid plication must be completed and sul	ot be approved until all the building department will no review and construction in e of time and are based or	required information is ot issue a building permit for a nspection fees (including travel

• Approval by all applicable agencies must be obtained

If a cannabis facility opens for business without a valid Cannabis Facility Permit, the operator is subject to closure of the facility and a penalty of up to three times the cost of the Cannabis Facility Permit.

Applicant Signature		Date			
Print Name					
For office use only:					
Application Date		FA #	SR #	Dist	
Comments:					
Plans Reviewed by	Date	Pla	ans Approved by	Date	
Cash Check Credit C	ard Trans#	Date rec'd	_ by Amount rec'd \$	8	