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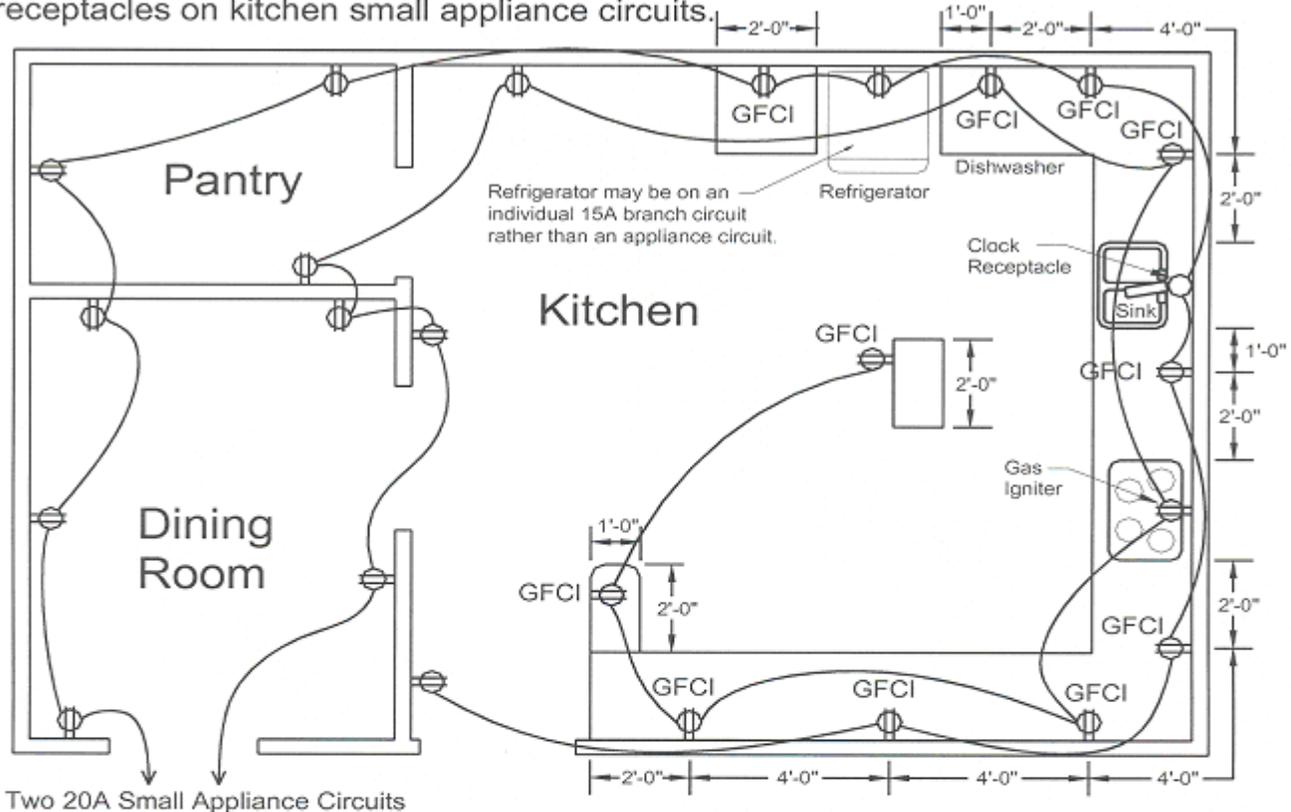
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CITY of NAPA

KITCHEN COUNTERTOP RECEPTACLES

An acceptable wiring method and placement of receptacles and GFCI protected receptacles on kitchen small appliance circuits.



This figure shows how to meet the requirements of California Electrical Code, Sections 210-52(b)(1), (2) and (3). Countertop receptacles are intended for small appliances, and **may not** be used for exhaust hoods or fans, disposals or dishwashers. Countertop receptacles must be protected with a GFCI (Ground Fault Current Interrupter) (Section 210-8(a)(6)).

If the countertop is longer than 12", it must have its own receptacle. A countertop 48" (4'-0") long may be serviced by one receptacle--provided no point along the wall is more than 24" (2'-0") from a receptacle (Section 210-52(c)). If you have a peninsular-type countertop, measure it from the edge of the section connecting countertop, not the wall, to determine the placement of its receptacle. An island-type countertop at least 12"x24" in size is also required to have its own receptacle.

Per Section 220-16, countertop receptacles in the kitchen shall be evenly divided on two or more 20-amp appliance circuits, which may supply other receptacle outlets in the dining, breakfast, or pantry rooms. This requirement allows full use of appliances without overloading individual circuits. (A refrigerator and/or freezer may be on an individual 15-amp branch circuit, instead of the appliance circuit.)

All forms and handouts are available on www.cityofnapa.org

GENERAL REQUIRMENTS FOR KITCHEN REMODEL

E-1 Provide GFCI protected outlets where the receptacles are installed to serve the counter surfaces tops of kitchens. CEC 210-8 (a) 6

E-2 A receptacle shall be installed for each counter top space wider than 12" and for each 4 ft of counter space, with no point along the wall line more than 2 ft horizontally from a receptacle. Receptacle outlets shall be located not more than 18" about the counter top. Receptacle outlets shall not be installed in face-up position in the work surfaces or countertop. Receptacles mounted below the counter top shall not be located where the countertop extends more than 6" beyond its support base. CEC 210-52

E-3 At least 1 receptacle outlet shall be installed at each island counter space. CEC 210-52(C) 2

E-4 Counter top spaces separated by range tops, refrigerators, or sinks shall be considered as separate counter Spaces. CEC 210-52(c) 4

E-5 Provide 2 minimum separate 20 amp circuits to kitchen. Note: The two 20 amp small appliance branch circuits shall serve all counter top receptacles, pantry, breakfast room, dining room and outlet for refrigeration equipment. Power for gas igniters, clocks, exhaust hoods and fixed appliances not allowed on counter circuit. CEC 210-52(b)1.

CES -1 Provide fluorescent lamp controlled by most accessible switch. California Energy Standards 2.4.

P-1 Kitchen sink vent piping shall be 1 1/2" and provide a 2" minimum drain line Table 7-3 and the vent shall be located within 3'6" horizontal distance of trap. CPC Table 10-1.

P-2 Provide cleanouts at all sinks. CPC 707.4 Location must be readily accessible. CPC 707.9

P-3 No dishwasher drain shall be connected to a sink tailpiece, continuous waste or trap on the discharge side of a food waste disposal unit. CPC 405.4

P-4 Dishwasher air gap required above sink flood rim CPC 807.4

P-5 Provide water-supply valves for each fixture or appliance. CPC 605.5.

P-6 A gas appliance may be connected with an approved listed metal appliance connector. Listed metal appliance connectors shall have an overall length of not to exceed three (3) feet except a range or dryer connector, which may not exceed six (6) feet. No part of such connector shall be concealed within or extended through any wall, floor, partition, or appliance housing. CPC 1212 Ex 1, 2

M-1 Domestic freestanding built-in ranges shall have a vertical clearance above the cooking top of not less than 30" to unprotected combustible material. When underside of combustible material is protected by 28 gage metal ventilating hood, the distance shall not be less than 24". CMC 917.1

M-2 Range hood: Environmental air duct exhaust three (3) feet from property line; three (3) feet from openings into building. CMC 504.5

Key: E= Electric 2001 California Electrical Code (CEC)
P= Plumbing 2001 California Plumbing Code (CPC)
M= Mechanical 2001 California Mechanical Code (CMC)
CES = California Energy Standards