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	2022 CALIFORNIA CODES <small>CODE CYCLE</small>		
	01/02/2023 <small>EFFECTIVE DATE</small>		
RESIDENTIAL KITCHEN RENOVATIONS			

INTRODUCTION

Kitchen additions, alterations, or renovations require a building permit. At a minimum, a legible floor plan drawing is required for permitting. The following information can be used as a guideline for the minimum requirements for a kitchen renovation projects. Additions, alterations, or renovations require compliance with the:

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| <p><i>2022 California Residential Code (CRC);</i>
 <i>2022 California Plumbing Code (CPC);</i>
 <i>2022 California Mechanical Code (CMC);</i>
 <i>2022 California Electric Code (CEC);</i></p> | <p><i>2022 California Energy Code;</i>
 <i>2022 California Green Building Standards (CGBSC); and</i>
 <i>The City of Dana Point Local Ordinances.</i></p> |
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A kitchen renovation includes, but is not limited to, the removal and/or like-for-like replacement relocation of base cabinets, counter tops, sinks, dishwasher, installed appliances, changes to the lighting, removal & replacement of any drywall, modifications to the structural elements of the dwelling, and changes to the electrical, mechanical, and plumbing systems. Removal and replacement of the base cabinets and countertop will require compliance with the electrical outlet location requirements of the code.

SMOKE / CARBON MONOXIDE ALARMS

Kitchen renovations (projects over \$1,000) will require the smoke and carbon monoxide alarms for the dwelling to meet the current code (CRC sections R314 and R315).

- Smoke alarms are required in all sleeping rooms, outside each sleeping area in the immediate vicinity of the bedrooms, on each floor level including basements and habitable attics, but no including crawl spaces and uninhabitable attics.
- Carbon Monoxide alarms are required in dwelling units and sleeping units when fuel-burning appliances are installed and/or dwelling units have attached garages. Either condition requires the alarms.
- When more than one alarm of either type is required to be installed within an individual dwelling unit, the alarm devices shall be interconnected in such a manner that activation of one alarm will activate all the other alarms.
- In existing conditions, alarms may be battery operated when the repairs or alterations do not result in the removal of the wall and ceiling finishes or there is no access by means of an attic, basement or crawlspace.
- Multipurpose alarms that combine both a smoke alarm and carbon monoxide alarm shall comply with all applicable standards of both CRC sections R314 and R315 and be listed by the office of the state fire marshal.

The following details the minimum requirements for the kitchen electrical, mechanical, and plumbing systems:

ELECTRICAL

- All kitchen countertop outlets shall be **GFCI & ARC-FAULT** protected (CEC 210.8(A)(6) & 210.12(A)).
- Receptacles and replacement receptacles shall be listed as tamper-resistant (CEC 406.4(D)(5) and 210.1.2).
- 12" or wider countertops require an outlet (CEC 210.52(C)).
- Outlets are required within 24" of any location along the countertop (CEC 210.52(C)(1)).
- Kitchen outlets positioned a maximum 20" above countertop (CEC 210.52(C)(3)(1)).
- Appliance garage outlets are not counted as a required countertop outlet (CEC 210.52(C)(3)).
- Appliances and sinks break up the countertop run, requiring each side to comply individually.
- Islands are to have a minimum of one receptacle for first 9 square feet and a second receptacle for every additional 18 square feet.
- The electrical outlet requirements include islands, peninsulas, kitchen desktops, wet bars, and serving bars. A large window across the back of a sink or lack of a back splash does not exempt the countertop from the outlet requirements. These outlets may be in a drop front cabinet face, under cabinet plug strip, pop up or tombstone type receptacle (CEC 210.52(C)(2), (3)).
- Two (2) small appliance outlet circuits, 20 amps each are required for kitchens. Circuits shall be balanced and have no other outlets (CEC 210.52(B)(1), (2)).
- Individual dedicated circuits are required for all major appliances (CEC 210.11(C)(1) & CEC 422.10(A)).
- Garbage disposal cord and plug connected 18" to 36" long (CEC 422.16(B)(1)).
- Dishwasher cord 36" to 78" long. Romex installed with a plug is not an approved flexible cord (CEC 422.16(B)(2)).
- A single 20 amp circuit is allowed for the dishwasher and the disposal when the total rated amperage is less than 10 amps (CEC 210.23). This receptacle shall be GFCI and AFCI protected (CEC 422.5(A)(7)).
- Residential kitchen lighting is required to meet the energy efficiency standards. Provide a lighting schedule to verify compliance (150(k) California Energy Code).
- Insulation contact (IC) and air-tight (AT) rated cans are required for recessed lighting if installed in an insulated ceiling. For occupancies with a horizontal (floor/ceiling assembly) rated separation, the recessed fixtures shall be protected to the rating of the separation (1 hour) or be listed for the required protection. This generally applies to residential condominium construction where units are above or below other units. (Exception from 150(k)(1)(cii and iii))
- High-efficacy recessed lighting when used to comply with the lighting requirements must be of a pin base type design. Incandescent screw type base are not approved.

MECHANICAL

- A ducted residential exhaust hood is required. A metal, smooth interior surface duct required on vent hood or down draft exhaust vent. Flex duct not an approved duct material. Provide back draft damper (CMC 504.3).
- Minimum 30" vertical clearance to combustibles from cook top surface (CMC 920.3.2).
- Kitchen local exhaust ventilation requires a minimum rate of 100 Cfm meeting the requirements of ASHRA 62.2. This includes a maximum sound rating of 3 Sone @ 100 Cfm (Table 403.7). Recirculation types are not allowed by code.
- The size and length of the ducting must be detailed on the plan.

PLUMBING

- A gas test is required on piping modifications (10 PSI for 15 minutes). A maximum 15 PSI gauge is required for the gas test.
- Indicate on the plans all domestic hot water pipes that are buried below grade. These must be insulated and installed in a non-crushable casing or sleeve that allows for installation, removal, and/or replacement of the enclosed pipe and insulation.
- Gas lines that run under a slab shall run through an approved, vented, gas-tight conduit (CPC 1210.1.6).
- An accessible shutoff valve, flex gas appliance connector followed by a “tee” sediment traps the order of installation prior to each appliance in addition to any valve on the appliance (CPC 1212.6 and 1212.9).
- Provide maximum 6’ long listed gas flexible connector and shut off to free standing range (CPC 1212.6).
- A listed air gap is required for the dishwasher drain (CPC 807.3).
- The maximum flow rate for the sink faucets is 1.8 gallons per minute @ 60 psi (CGC 4.303.1.4.4).
- Kitchen faucets may temporarily increase the flow above the maximum rate but not to exceed 2.2 gallons per minute @ 60 psi and must default to a maximum flow rate of 1.8 gallons per minute @ 60 psi (CGC 4.303.1.4.4).
- Island sink loop vent and foot vent shall follow

Kitchen Island Sink

