

Electrical, Dwelling Unit 400 Amp and Up - Plan Submittal Checklist

- I. PURPOSE: A checklist for the design professional/owner's representative to verify they meet the minimum plan review requirements for new or remodeled single family dwellings with a new or upgraded service sized 400 amperes or larger. The design professional/owner's representative should check each box to ensure the items required for plan review have been verified.
- **II. POLICY:** Plan Preparation Refer to Electrical Submittal Requirements Interpretation of PBCC 107.1 for additional information and to determine who is permitted to prepare the plans.

III.	PR 1.	OCEDURE: Plan Contents Checklist (2017 NEC Code sections referenced U.N.O.) All plans shall be drawn to scale and shall include a legend of all symbols used. □ Scale shown on the plan □ Complete legend including all symbols and abbreviations used
	2.	A complete site plan showing service location and all exterior lighting or other wiring. ☐ Service/panel board locations are shown ☐ All exterior lighting and other wiring shown
	3.	A complete plan showing the type and layout of equipment and wiring for each floor, and all rooms or spaces shall be identified on the plans. Show all equipment i.e. A/C units (condensing and air handler units), water heaters, etc. Show all receptacles for compliance with NEC 210.11(C) Show all receptacles for compliance with all parts of NEC 210.52 Show receptacles for compliance with NEC 210.63 Show weather-resistant receptacles per NEC 406.9 and tamper-resistant receptacles per NEC 406.12. Show all lighting outlets for compliance with NEC 210.70
	4.	The maximum available fault current as published by the utility company at the point of attachment of each service-entrance section shall be indicated on the plans. ☐ Maximum available fault current as published on the latest utility company chart ☐ Utility company and available fault current have been verified
	5.	Fault-current calculations from service-entrance section to lowest rated overcurrent device or equipment. NOTE: The Utility service conductors shall NOT be used for fault-current calculations. ☐ Fault current calculations are shown on the plans ☐ Fault current calculations are shown for all panelboards and sub-panels
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6.	Complete code load calculations for service equipment, switchboards and panelboards as computed in accordance with the National Electric Code or by other methods satisfactory to the Building Official.		
	□ Load calculation for the service that complies with NEC 220 parts II and III		
	□ Load calculation for each panelboard that complies with NEC 220 parts II and III		
	 Required appliance nameplate ratings provided for optional calculation NEC 220.82 		
	 □ Required A/C nameplate ratings provided for optional calculation NEC 220.82 □ Required motor & AHU nameplate ratings provided for optional calculation NEC 220.82 		
7.	The size and length of all service and feeder raceways.		
	☐ Size of service conductors and all feeders including equipment grounds		
8.	The rating of every motor disconnecting device.		
	 □ Provide disconnect size for all motors, HVAC equipment, water heaters, etc. □ Identify all disconnects as fused or non-fused 		
9.	The volt-ampere rating of each outlet, the actual nameplate data of the equipment served.		
	☐ Provide the volt-ampere rating and the voltage for each range/oven or dryer outlets		
10.	Switchboard and panelboard schedules showing volt-ampere and/or ampere rating of feeders, branch circuits, spare and/or future circuits to be installed.		
	 □ Provide AFCI protection for all outlets (receptacles, lighting, smoke detectors, etc.) in all areas covered by NEC 210.12 		
	☐ Provide GFCI protection for all receptacles to comply with NEC 210.8		
	□ Provide GFCI protection for hydro-massage bathtubs per NEC 680.71		
	☐ Provide types and sizes for all branch circuit overcurrent devices		
	□ Provide conductor sizes for all branch circuits		
11.	One-line diagram of the complete electrical system, including service equipment, switchboards and panelboards showing equipment class, type and size, feeder sizes and arrangement of overcurrent devices to be installed.		
	□ Provide the main bonding jumper size		
	Provide the water and gas bond size		
	☐ Provide all grounding electrodes and sizes of grounding electrode conductors		
	☐ Provide the type and size of all main overcurrent devices		
	☐ Provide the voltage and ampere rating of all equipment		
	□ Provide AIC ratings for all equipment with overcurrent devices and SCCR ratings for all equipment without an overcurrent device.		
	☐ Show separate structure grounding to comply with NEC 250.32		