

Ohio Residential Plan Submittal Form *(Electrical)* 2/11/13

Address of Project		City/Township		Project Description	
Contractor/DBA		Address		State License No	Phone No
Owner		Address		Phone No	
Electrical Design					
Service Size	Panel Location in Structure	Size of Service Conductors		<input type="checkbox"/>	Overhead
				<input type="checkbox"/>	Underground

Provide additional details or drawings below

First Floor Plan

Electrical Design					
Service Size	Panel Location in Structure	Size of Service Conductors		<input type="checkbox"/>	Overhead
				<input type="checkbox"/>	Underground

Provide additional details or drawings below

Second Floor Plan

As the legal owner/agent of the property above, I am performing the electrical/HVAC work described above.

_____ Date ___/___/___

NOTE: Per section 106.1 the Residential Building Official may require additional drawings, technical data or documentation in order to verify compliance.

Building Department Only

Residential Plans Examiner/Building Official	Date of Approval	Application/Permit No

Ohio Residential Plan Submittal Form

Referenced Code Text

Revised 2/11/13

ELECTRICAL				
<p>NEC 110.3 (B) Listed and labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling.</p>				<p>NEC 314.27 (C) Ceiling mounted outlet boxes in single or multi-family dwellings with spare switch leg conductors installed require a ceiling box listed for sole support of a ceiling fan.</p>
Service				Smoke Alarms
Size of Service in Amperes:				<p>RCO 314.3 Smoke alarms shall be installed in the following locations:</p> <ol style="list-style-type: none"> 1. In each sleeping room 2. Outside each separate sleeping area in the immediate vicinity of the sleeping rooms. 3. on each story of the dwelling, including basements and habitable attics. <p>When more than one alarm is required to be installed within the dwelling they shall be interconnected.</p> <p>RCO 314.3.1 When alterations, repairs or additions requiring an approval are made to the spaces described in items 1 and 2 of section 314.3, smoke alarms shall be provided in those spaces as required for a new dwelling. When one or more sleeping rooms are added or created in existing dwellings, the new sleeping rooms and the immediate vicinity outside each shall be equipped with smoke alarms as required for new dwellings.</p> <p>RCO 314.4 Power source. Smoke alarms must receive their primary power from the building wiring when such wiring is served from a commercial source, when primary power is interrupted, shall receive power from a battery.</p>
	Copper	Aluminum	Service Rating	<p>NEC 310-15 (B)(7) Conductor Sizes 120/240 VOLT 3-Wire, Single-Phase, Dwelling Services/ Main Feeders <u>only</u></p>
	4 AWG	2 AWG	100 Amps	
	1 AWG	2/0 AWG	150 Amps	
	2/0 AWG	4/0 AWG	200 Amps	
<p>NEC 250.50 All grounding electrodes that are present at each building or structure served shall be bonded together to form the grounding electrode system. Conductor size per NEC 250.66.</p> <p>NEC 250.52 Some Permitted Electrodes include:</p> <ol style="list-style-type: none"> 1. Metal underground water pipe in direct contact with earth for 10 feet or more 2. Metal frame of the building 3. Concrete-encased electrode 4. Rod, pipe & plate electrodes (all 3 must be supplemented) 				
General Circuitry				
<p>NEC 210.11 and 422.12 In addition to the branch circuits installed to supply general illumination and receptacle outlets in dwelling units, the following minimum requirements apply: Two 20-amp circuits for the kitchen receptacles, One 20-amp circuit for the laundry receptacles, One 20-amp circuit for the bathroom receptacles and One separate, individual branch circuit for central heating equipment</p>				
<p>NEC 210.52 (B) (3) Receptacles installed in the kitchen to serve countertop surfaces shall be supplied by not less than two separate small appliance branch circuits.</p>				
<p>NEC 210.52 (A) (1) Receptacle outlets in habitable rooms shall be installed so that no point measured horizontally along the floor line in any wall space is more than 6' from a receptacle outlet. A receptacle shall be installed in each wall space 2 feet or more in width.</p>				Carbon monoxide alarms
<p>NEC 210.52 (C)(1) At kitchen countertops, receptacle outlets shall be installed so that no point along the wall line is more than 24 inch measured horizontally from a receptacle outlet in that space. Countertop spaces separated by range tops, sinks or refrigerators are separate spaces.</p>				<p>RCO 315.1 Carbon monoxide alarms. For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.</p> <p>RCO 315.2 Where required in existing dwellings. Where work requiring a permit occurs in existing dwelling that have attached garages or in existing dwellings within which fuel-fired appliances exist, carbon monoxide alarms shall be provided in accordance with section 315.1</p> <p>RCO 315.3 Alarm requirements. Single station alarms shall be listed per UL 2034 and shall be installed per instructions.</p>
<p>NEC 210.52 (E)(1) & 406.9 (B) (1) At least one receptacle, accessible while standing at grade level and no more than 6.5' above grade, shall be installed at the front and back of a dwelling. Receptacles installed in wet locations shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted. All 15 and 20 ampere, 125 and 250 volt non-locking type receptacles shall be listed weather-resistant type.</p>				<p>NEC 410.16 Luminaries in clothes closets: Luminaries types not permitted: Incandescent fixtures with open or partially enclosed lamps and pendant luminaries or lamp holders shall not be permitted.</p> <p>Minimum clearances required from fixture to leading edge of closet shelf:</p> <ol style="list-style-type: none"> a) 12 inches for incandescent or LED luminaries' surface mounted. b) 6 inches for incandescent luminaries recessed with completely enclosed lamps. c) 6 inches for surface or recessed fluorescent, luminaries and 6 inches for recessed LED luminaires. d) Surface mounted fluorescent or LED luminaries shall be permitted to be installed within the storage space where identified for this use.
<p>NEC 210.12 (A) All 120 volt single phase, 15 and 20 ampere branch circuit supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed arc-fault circuit interrupter, combination type installed to provide protection of the branch circuit.</p>				<p>NEC 406.12 In all areas specified in article 210.52, all 125 volt, 15 and 20 ampere receptacles shall be listed as tamper-resistant receptacle, unless exempt.</p>
<p>NEC 210.8 (A) Ground-fault circuit-interrupter (GFCI) protection shall be provided for all 125-volt, 15 and 20 amp receptacle outlets installed outdoors, in bathrooms, outdoors, garages (unless exempt), accessory buildings, crawl spaces at or below grade level, unfinished basements (unless exempt), at kitchen countertops and within 6' of the outside edge of the sink. All ground-fault circuit-interrupters shall be readily accessible.</p>				<p>RCO 303.6 Stairway Illumination</p> <p>All interior and exterior stairways shall be provided with means to illuminate the stairs, including the landings and the treads. Interior stairways shall be provided with artificial light source located in the immediate vicinity of each landing of the stairway.</p>
<p>NEC 210.63 A 125-Volt 15 or 20 ampere-rated receptacle outlet shall be installed at an accessible location for the servicing of the heating, air conditioning and refrigeration equipment. The receptacle shall be located on the same level and within (25ft) of the equipment.</p>				
<p>NEC 680.71, 680.73, 680.74 Hydro massage baths tubs and their associated electrical components shall be on an individual branch circuit(s) and protected by a readily accessible ground fault circuit interrupter. All 125-Volt receptacles not exceeding 30 amps and located with-in (6ft) measured horizontally from the inside walls of the hydro massage tub shall be protected by ground-fault circuit interrupter(s). Hydro massage bath tub electrical equipment shall be accessible without damaging the building structure or building finish. All metal piping systems and all grounded metal parts in contact with the circulating water shall be bonded together with solid copper bonding jumper not smaller than # 8.</p>				
<p>NEC 314.16 Number of conductors in outlet, device, junction box, and conduit bodies. Boxes and conduit bodies shall be of sufficient size to provide free space for all enclosed conductors. In no case shall the volume of the box be calculated to be less than the minimum fill of the box.</p>				