

## Standard Operating Procedures – Electrical Inspections

### ELECTRICAL ROUGH

1. Wiring is properly imbedded in walls
2. Minimum wire size of 12-gauge copper per City ordinance (10 gauge for CCA)
3. Aluminum wire not allowed past meter per City ordinance
4. Outlets shall be installed so that no point measured horizontally along the floor line in any wall space is more than 6'.
5. A wall space is considered any space 2' or more in width, including around corners and unbroken along floor line.
6. Hallways 10' or more in length shall have at least one outlet.
7. Outlets installed at kitchen counter tops 12" or wider and no point along wall is more than 24" horizontally from an outlet (with exception).
8. Island and Peninsular counter spaces shall have at least one outlet installed.
  - Note: 2023 NEC allows a provision: pop up or above surface outlets only. No outlet required.
9. Outlets are allowed to be located above, but not more than 20" above countertop.
10. At least one outlet shall be installed in bathrooms within 36" of the outside edge of each basin (with exception).
11. Proper box fill (number of conductors and appliances in embedded electrical box).
12. Where subject to damage, wiring methods thru notched/bored holes less than 1-1/4" from the nearest edge of the stud shall be protected with a nail plate 1/16-inch thick and appropriate length.
13. All smoke detectors shall be listed in accordance with UL 217 and installed with the provision of this code and the household fire warning equipment provision of NFPA 72.

### Electrical inspection for temporary utilities (TCI)

1. Grounding electrodes properly connected to service panel.
2. Rod and pipe electrodes not less than 8' in length.
3. Verify metal water piping shall be bonded to the service equipment.
4. Verify Gas system is bonded back to service equipment.
  - Note: Or independently grounded.
5. Main disconnect located at exterior of building next to meter, not higher than 6'-7" above grade.
6. Proper meter can per utility provider, HL&P, or Texas New Mexico.
7. Service panel is weather tight, and no slots are left open in panel.
8. A minimum clear space is provided at front of the service panel 30" wide and 36" deep.
9. Aluminum wire is not allowed as conductors past the meter to the service panel. Service provider will feed aluminum wire from transformer to meter. (This only applies to Texas New Mexico. Center Point will not do this service.).
10. A meter inspection requires all wiring to be safe/secure – no open wires under 7'.

ELECTRICAL FINAL

1. Main disconnect located at exterior next to meter, at a maximum height of 6' 7" above grade.
  - Note: Verify SPD and 2<sup>nd</sup> ground rod.
2. All circuits and main labeled in service panel and face plate secured in place.
3. T-Pole disconnected and removed from site.
4. All exterior receptacles shall have ground-fault circuit-interrupter protection.
5. Operable switch, lights, and plugs in all habitable rooms.
6. All light fixtures installed interior and exterior and sealed properly, no blank plates at boxes, install "key list" fixtures.
7. Check for operation of dishwasher, food waste grinder, cook top, cook top exhaust/microwave, and oven.
8. Verify CCA approved devices.
9. Required GFCI protected receptacles function properly, reset on same floor, outside resets in garage.
10. Kitchen receptacles that serve countertop surfaces shall have ground-fault circuit-interrupter protection.
11. Spa tubs disconnect in proper location – 5' minimum from tub.
12. Check all outlets, switches, and appliances for proper operation.
13. Panel is to be mechanically printed labels. Handwritten is not allowed.