

HUMBOLDT COUNTY BUILDING DEPARTMENT  
TEMPORARY ELECTRIC REQUIREMENTS  
2017 National Electric Code (NEC)

Temporary electrical connections are granted for two specific reasons: (1) Service for well pumps and (2) electrical for construction purposes. These connections are granted for a period not to exceed sixty days (60 days), with a review for extension at the end of that time. Listed below are the conditions and requirements for temporary electric connection.

1. Structures or dwelling shall not be occupied until this office performs and approves a final inspection.
2. The service equipment (meter with main service disconnect) shall be installed and ready for utility connection at the time of inspection. Also, any feeder/subpanels needed for temporary electric shall be installed and ready to be energized upon completion of inspection. The property address shall be written on the meter panel cover.
3. Electrical equipment installed for temporary electric use shall meet the ground requirements of NEC, Article 250.
4. Thirty-six inches (36") in front of the electrical panel will need to be backfilled for access to the panel. The rest of the trench shall remain open until an inspection of the conduit or direct burial conductors (wires) is performed and passed. This would be the underground electric between the service equipment and any feeder/subpanels.
5. The backer board for panel (if installed) shall be of rot resistant material or unistrut.
6. Temporary electrical for construction shall include, in addition to the above requirements, the following completed at the time of inspection:
  - a. Construction receptacle shall be 20 amp GFCI and connected to a 20 amp breaker.
  - b. Receptacles used outdoors will be required to have an enclosure (bubble cover) that is weatherproof and remains so even when a plug is inserted. NEC Article 406.9(B)
  - c. Metal weather tight boxes used with receptacles shall be properly grounded and bonded as per NEC Article 250.
  - d. GFCI protection shall be provided via a GFCI receptacle or circuit breaker. The GFCI protection shall continue throughout the life of the construction project and checked periodically for proper operation.
  - e. The required overcurrent protection (circuit breaker) and receptacle wiring shall be installed per the NEC and ready for utility connection upon Building Department approval.
7. Temporary electric for well service shall include, in addition to the above requirements (2-6) the following shall be completed at the time of inspection:
  - a. Overcurrent protection (circuit breaker) and wiring shall be installed as per the NEC. With the connection to the well pump completed and left open for inspection.