



CITY OF ALTOONA

ELECTRICAL RESIDENTIAL UPDATE REQUIREMENTS

All new dwellings and additions shall comply with the current adopted National Electrical Code and the City's Electrical Ordinance.

Dwellings being remodeled/altered shall be wired to comply with the current adopted National Electrical Code and the City's Electrical Ordinance.

Dwellings moved to new locations shall be wired as new construction.

In accordance with Municipal Code Chapter 158, when service entrances are altered, the residential structure shall be updated throughout to the following requirements, in accordance with the NEC. The exception to this policy is when such alteration consists only of a repair to the service entrance.

All work contained in this handout to have appropriate permits and inspections per City ordinances.

All new or replacement receptacles shall be of the tamper resistant type.

Services

1. 100-ampere minimum, shall be larger if calculations justify.
2. Service entrance conductors shall be installed in approved raceways on and in buildings and other structures.
3. Disconnecting means shall be at point of entrance, raceway not to exceed 20'.
4. Conduit shall be plugged with duct seal or other approved material where it enters building.
5. Adequate lighting shall be required in the area of the panel board.
6. A working clearance of 3' minimum shall be maintained around panel board.

Kitchen

1. Minimum two (2) – 20 ampere appliance circuits.
2. Ground fault circuit interrupter protection required for all counter top receptacles and receptacles within 6' of sink.
3. Built-in dishwashers shall have separate 15 or 20-ampere circuit, and be GFCI protected.
4. Garbage disposals shall be properly grounded through fixed wiring or cord and plug connection.
5. Switches, receptacles and lighting fixtures to be effectively grounded or GFCI protected.

6. A minimum of two receptacle outlets shall be available in addition to others that may be inaccessible serving appliances.
7. One GFCI protected outlet shall be installed in any island or peninsula.
8. All kitchen circuits to be AFCI protected

Bathroom

1. Switches and lighting fixtures to be effectively grounded or GFCI protected.
2. All receptacles to be GFCI protected.
3. Any newly installed bathroom circuits to be supplied by separate 20-amp circuit.
4. A minimum of one receptacle is required within 36" of lavatory basin.

Laundry

1. One grounded separate GFCI and AFCI protected 20-amp circuit is required.
2. Receptacle shall be located within six feet of laundry box.

Bedroom and other habitable rooms

1. A minimum of two receptacle outlets are required, preferably on opposite walls or no more than 20' between them.
2. All existing receptacles, other than where required can be of the two-wire type.
3. All new receptacles added shall be of the grounding type. Where the means does not exist to ground a receptacle, it shall be GFCI protected.
4. A switched lighting outlet shall be provided, by means of wall switch or pull chain.
5. All circuit breakers serving receptacle or lighting outlets in all habitable rooms shall be AFCI protected.

Basement

1. Correct any deficient wiring.
2. GFCI protection is required on all receptacle outlets. May include receptacle outlet for sump pump.
3. Minimum of one GFCI receptacle outlet in unfinished areas.
4. One GFCI outlet required within 25' of HVAC equipment.

Attic

1. Correct any deficient wiring.
2. If used for storage, a light shall be installed.
3. Romex wiring may be allowed if it is not subject to physical damage.

Outside receptacles and lights

1. All new and existing outside receptacles shall be GFCI protected
2. All new outside house and garage lighting fixtures shall be installed in a box that is approved for the purpose.

Furnaces and A/C units

1. A furnace shall have a separate 15 or 20 amp circuit.
2. A switch shall be provided at the furnace unless the panel board is within sight.
3. All A/C units shall have outside disconnects.
4. The over current protection shall be matched to the A/C unit's listed rating.

Garage

1. Romex wiring is allowed if covered by gypsum board, paneling, pegboard or other similar material.
2. GFCI protection is required on all receptacle outlets.
3. All new receptacles must be minimum of 18" above the floor.

Smoke Detectors/ CO Detectors

Dependant upon the scope of work being performed, either battery powered smoke detectors or hard-wired 120-volt detectors shall be

installed in all locations as required by the currently adopted version of the International Residential Code or International Building Code. The State of Iowa Fire Marshal's office requires dual sensor smoke detectors in all residential occupancies.

A CO detector shall be installed in the area immediately outside of the bedrooms for those dwellings that have either attached garages or fuel-fired equipment.

When there is a demonstrated need the electrical inspector shall retain the authority to request additional installation or alterations to help achieve a safe installation.

It shall be the duty of the electrical contractor to inform the owner of the residence of these minimum requirements.

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