

LAPORTE COUNTY  
**BUILDING INSPECTION DEPARTMENT**

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## **Electrical Services**

1. Aluminum wires must have an anti-oxidant agent.
2. Ground must go to the 1<sup>st</sup> disconnecting means; not to the meter base.
3. Two (2) ground rods will be required at a minimum of six feet (6') apart.
4. Conduits must be supported at a minimum of three feet (3') from the Meter or Disconnect.
5. PVC Conduits **MUST** be glued.
6. At least one (1) GFCI will be installed at the service for construction purposes.
7. A two (2) pole breaker will be installed as a main breaker in all temporary services.

## **Rough-In Inspections**

1. Overall – neat looking job. Wires must be even parallel and at right angles to wooden members.
2. Holes for Romex must be drilled at least 1 ¼" (drawing 300-4) back from the face of the 2 X 4 (2 X 6, 2 X 8, etc.). If not, a steel plate must be used. The Romex must be stapled back down 1 ¼" from the face.
3. No Romex running vertical within a return air-plenum.
4. No boxes installed in return-air-plenums.
5. Receptacles at front and rear of residence.
6. Minimum of 2-20 Amp small appliance circuits in the kitchen. (210.26 & 25, 210.52)
7. Receptacles located no more than 12' apart in any living quarters. (210-25)
8. At least one receptacle installed in bathrooms, laundry, basements, crawlspaces, garages, and hallways of 10' and more in length. (210-11)
9. Receptacles for servicing equipment in crawl spaces and attics.
10. Lights at exterior side of all exits.
11. Lights at attics, crawlspaces, utility rooms, and basements with control at point of entry; additional lighting receptacles for servicing equipment in crawlspaces and attics.
12. Box Fill.
13. Length of wire out of box.

14. Smoke detectors in required areas: inside of each sleeping quarter, outside of sleeping area, inside at top of enclosed stairwell, and at basement level at bottom of stairwell. In multi-level dwelling, one at each level. Hard wired with common alert. Must be fed by a dedicated circuit.

### **Required for a Service Upgrade – 317-1 IRC**

Smoke detectors will be installed in each bedroom, just outside of the sleeping area, and at each level of the residence, including the basement. When a stairwell to the basement is closed off by a door at the top, a smoke detector is recommended at the top in lieu of the basement smoke detector.

### **Recommended for Service Upgrade**

1. Minimum of 2-20 Amp small appliance circuits in the kitchen area.
2. All counter top receptacles must be GFIC protected. (210-69)
3. 20-amp circuit to feed the bathroom(s).
4. Bathroom counter top receptacles will be GFIC protected. (210-69)
5. At least GFIC receptacles in the garage if electric is provided.
6. Outside receptacles installed in the front and rear of the dwelling.
7. Light fixtures at the outside location of exits.
8. The new load center will be illuminated.
9. A GFIC protected receptacle will be installed in an unfinished area of basement. Existing receptacles near a water source **MUST** be changed to GFIC or removed.