

## Grounding & Bonding Definitions

- *Bonding [100]*. The permanent joining of metal parts together to form an electrically conductive path that has the capacity to conduct safely any fault current likely to be imposed on it.
- *Ground (Earth) [100]*. Earth or a conductive body that is connected to earth.

## BBB Bonding and Grounding Specifications:

**BBB**- Services must be bonded to the house electrical system. We do not bond to other utilities or house systems.

**Water pipe bonding**- Although the NEC code book does permit bonding to water pipes there is provisions/requirements to do so. The bonding point must be within 5 feet of entrance to the building; the metal water pipe must enter the ground within 3 feet of the bonding point and must remain in the ground for a minimum of 10 feet. Since we have no way of checking the 3<sup>rd</sup> parameter (or preventing any fixes/work done where the pipe could be changed to plastic piping) we as a company choose not to bond to water.

**Ground Rod bonding**- The NEC code book allows for bonding to ground rods...if the ground rod is installed properly for depth and length (8ft) and also is bonded to the house electrical system. There is no way for our installers to prove either is done right or even connected to the house system, so BBB as a company chooses not to bond to the ground rod option.

### NEC Articles/requirements-

#### Article 250-grounding and bonding

Section 250.50 grounding electrode system

Section 250.52 grounding electrodes (water and ground rod)

Section 250.94 Bonding for Communication systems

#### Article 820-Community Antenna, TV and Radio Distribution

Section 820.44 C,2 overhead (aerial) coax cables

Section 820.100 A 3&4 B 2&3 Cable bonding and grounding

Section 820.106 A&B Grounding and Bonding at Mobil homes