All available electrodes must be bonded together for a Grounding Electrode system.

Both the 2012 International Residential Code and the 2017 National Electrical Code require all available grounding electrodes to be used.

A number 8 grounding electrode conductor is required to be protected from physical damage.

A number 6 or larger grounding electrode conductor does not require protection if it follows the contours of the building.

A grounding electrode conductor enclosed in a metal raceway requires a grounding connection at the raceway ends.
All metal boxes require bonding. Sheet metal screws are not allowed to bond the enclosure.

Concentric and knockouts require a bonding bushing, wedge or locknut for required bonding.

The Intersystem Bonding terminal is required on all new electrical installations and change of electrical services to ground the low voltage systems.
Bonding of interior metal piping systems is required

All interior piping systems capable of becoming energized must be bonded, & connecting them at a gas water heater provides an easy way to check for compliance.

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