



**City of Milpitas
Building and Safety Department**

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**Water bonding to a grounding
electrode**

Policy:

BDP-EL04

Effective Date:

3/7/2011

Proposed by:

Last Reviewed/
Revised:

3/7/2011

Reviewed/
Revised by:

DW

Approved By:

Keyvan Irannejad P.E.
Chief Building Official

Interior metal water piping requires a bonding jumper conductor connection to:

1. The service equipment enclosure. or
2. The grounded conductor at the service. or
3. The grounding electrode conductor where of sufficient size. or
4. **To one or more of the grounding electrodes used.**

If the reinforcing steel rebar in the footing (Ufer) is used, as in item 4 above, then the grounding electrode conductor from the service to the rebar must be of equal or larger than that required for the water bonding jumper.

If a #4 was used from the service to the rebar and a #2/0 was required for the water bond this would not be acceptable.

If the electrode conductor & bonding jumper were both #2/0 this would be acceptable.

The water bonding jumper may not be larger than the grounding electrode conductor in this return path.