

Utilities District of Western Indiana REMC

Services Pamphlet v4.0



UDWI REMC

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www.udwiremc.com

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Wire Size Charts

100A Service Wire:

	Line Conductor	Neutral Conductor	Ground Wire
Aluminum	2	4	6 S.D. Copper
Copper	2	4	6 S.D. Copper

200A Service Wire:

	Line Conductor	Neutral Conductor	Ground Wire
Aluminum	4/0	2/0	4 S.D. Copper
Copper	3/0	1/0	4 S.D. Copper

320A-400A Service Wire:

	Line Conductor	Neutral Conductor	Ground Wire
Aluminum	(2) 4/0	(2) 2/0	4 S.D.
Aluminum	350 MCM	4/0	Copper
Copper	(2) 3/0	(2) 1/0	4 S.D.
250 MCM	250 MCM	3/0	Copper

Construction Checklist

To Do	Clearing / Clearances	Done
<input type="checkbox"/>	Right-of-Way cleared (see Overhead or Underground for distances)	<input type="checkbox"/>
<input type="checkbox"/>	Locate Equipment within 21' of a solid surface (gravel, concrete, pavement) for service vehicles access	<input type="checkbox"/>
<input type="checkbox"/>	All Private/Member owned utilities need to be flagged/painted/exposed	<input type="checkbox"/>

To Do	Meter Base/ Wire Installation	Done
<input type="checkbox"/>	Received or bought required meter base. Ringless meter base required.	<input type="checkbox"/>
<input type="checkbox"/>	Installed meter base correctly (meets NEC, UDWI REMC requirements)	<input type="checkbox"/>
<input type="checkbox"/>	Enough wire left at base of pole (35') or pad mounted transformer (15')	<input type="checkbox"/>
<input type="checkbox"/>	Members in Owen, Putnam, and Vigo Counties must have <u>temporary</u> and <u>permanent</u> meter bases inspected before connecting (Phone numbers are listed below)	<input type="checkbox"/>
<input type="checkbox"/>	Members in Monroe County must have <u>permanent</u> meter base inspected only, before connecting (phone numbers are listed below)	<input type="checkbox"/>

Owen: 812-829-5017 Monroe: 812-349-2580 Putnam: 765-301-9108 Vigo: 812-462-3365

To Do	Overhead	Done
<input type="checkbox"/>	Right-of-Way cleared to 40', ground to sky, for primary wire	<input type="checkbox"/>
<input type="checkbox"/>	Right-of-Way cleared for service wire	<input type="checkbox"/>

To Do	Underground	Done
<input type="checkbox"/>	Secondary/Service wire must be a minimum of 24" deep after final grade	<input type="checkbox"/>
<input type="checkbox"/>	Conduit is required where gravel, pavement, concrete or rocky soil areas are present	<input type="checkbox"/>
<input type="checkbox"/>	Right-of-Way cleared to 12' if UDWI REMC is installing wire	<input type="checkbox"/>

To Do	Payments/Easements	Done
<input type="checkbox"/>	Contribution-in-aid of Construction paid	<input type="checkbox"/>
<input type="checkbox"/>	Membership fee paid	<input type="checkbox"/>
<input type="checkbox"/>	Deposit for Service paid (if applicable)	<input type="checkbox"/>
<input type="checkbox"/>	Right-of-Way Easement recorded at respectful county courthouse and original copy returned to UDWI REMC	<input type="checkbox"/>

Once you have completed all above required requirements, please contact the Operations Department at (812) 384-4446 and report that your site is ready for service.

Work Order #: _____ Your UDWI REMC Representative: _____

New Construction Procedures

UDWI REMC reserves the exclusive right to determine the route, design, and method of construction as it deems appropriate and necessary. This Booklet is subject to change at any time without notice.

Prior To Staking:

- 1) Schedule a **staking appointment** by calling the Operations Department at UDWI REMC.
- 2) Member shall know heating/cooling, appliances, square footage, and location of new home.

During Staking:

- 1) Address **overhead** vs. **underground**
- 2) Provide **right-of-way easement** form to member.
- 3) Advise member on **products available** for purchase. All quotes on meter loops, wire, and meter bases will be **valid for 30 days**.
- 4) Advise the member of **Contribution in Aid of Construction**. All estimates are **valid for 90 days**.
- 5) Review this pamphlet and **complete the pre-construction checklist**.

After Construction:

- 1) UDWI's underground contractor will not seed, straw, or re-grade trench path. Nor will they seed, straw, and regrade area's where boring or other underground work was completed.
- 2) Member will be responsible for repair, re-seed, and re-grading of all urd facilities on all affected properties for the new service.

Note: UDWI REMC will not be liable for damages to the member's crops, trees, shrubs, fences, sidewalks, driveways, or other obstructions incident to the installation, maintenance, or repair of facilities, if such damage was not caused by its own negligence.

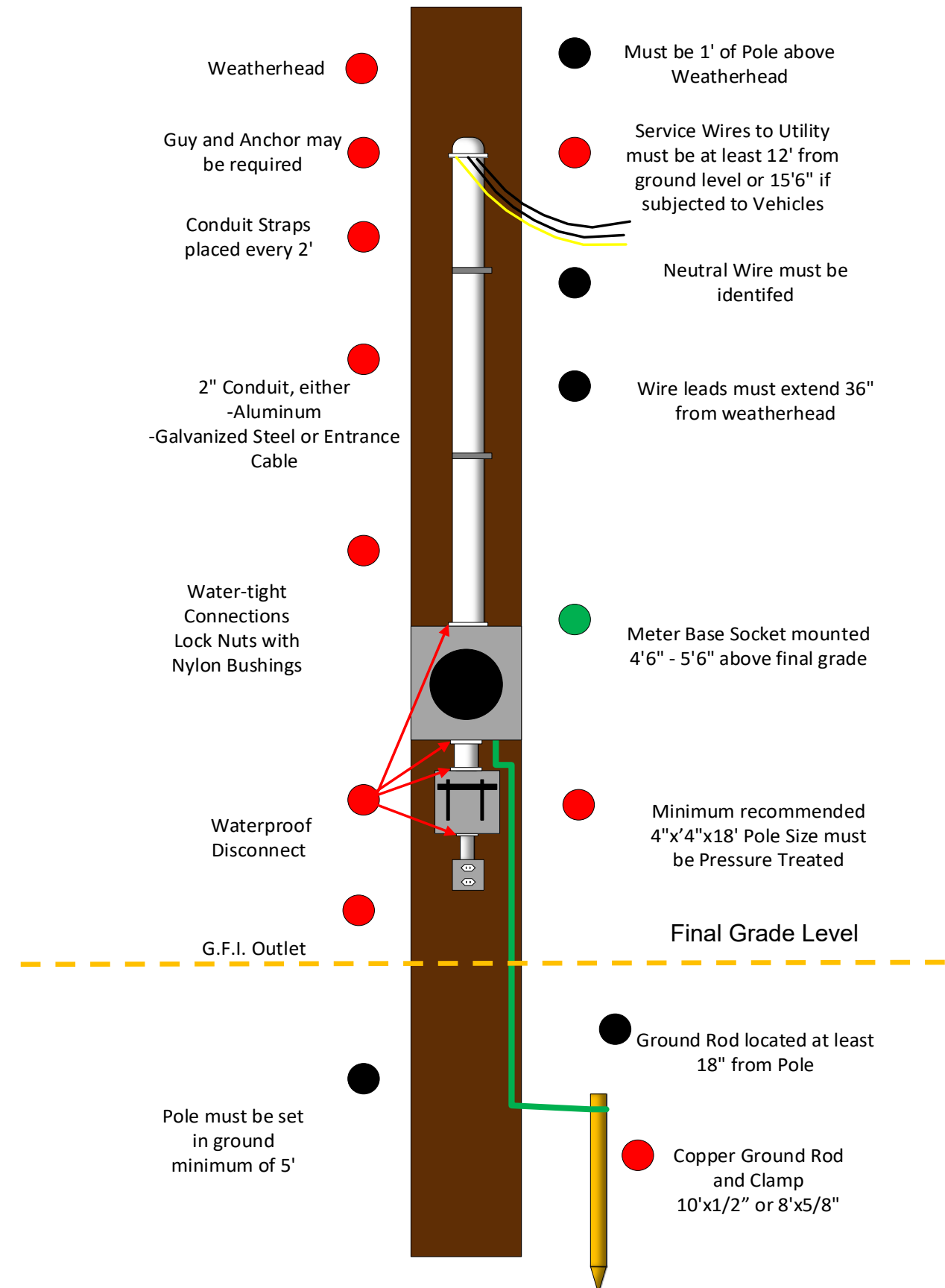
Note: Member is responsible for obtaining all easements for right-of-way, having the forms recorded at the appropriate courthouse, and returned to the UDWI REMC office.

Right-of-way easement ensures our ability to perform maintenance and upgrades on these power lines and facilities.

Overhead Temp. Service

Note: No more than 50' from UDWI REMC Pole

**Not available to rent from UDWI REMC



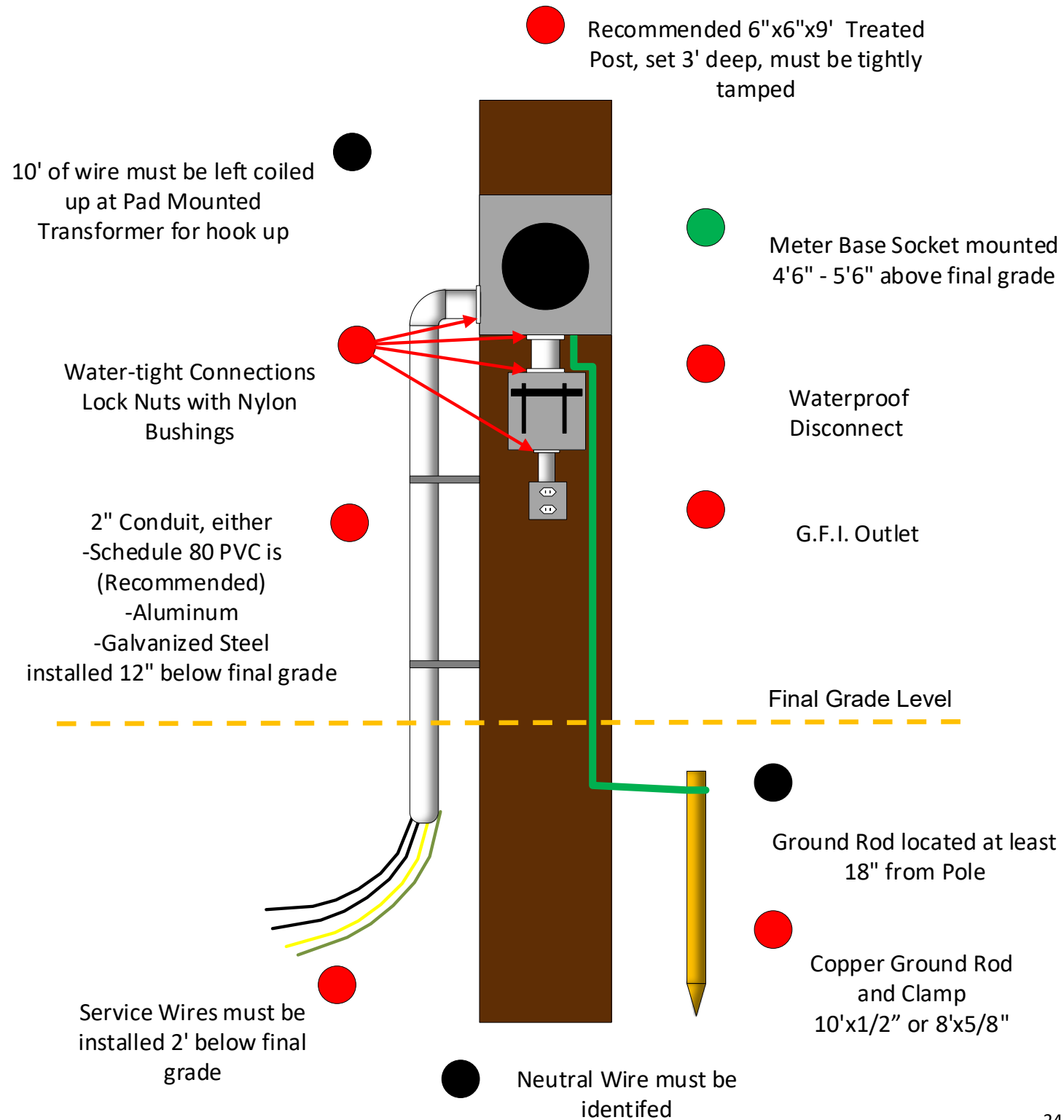
Temporary Installation Diagrams

Underground Temp. Service

Note: Only available near Underground Facilities

Available to rent from UDWI REMC **for up to 1 year.

*Build to the Right Side of the Pad Mounted Transformer



Contribution In Aid of Construction

The cost to the member is based on the cost of the construction, less an allowance*.

For new, full time residences, this allowance is \$2,000.00.

For outbuildings or part time residences, this allowance is \$500.00.

Temporary installations will require 100% of the cost of installation and removal.

This cost is charged to the member to prevent the cost of a single member's installation being absorbed by all the other members of UDWI REMC.

Payment is due prior to construction.

*This allowance is based on each member's allocated portion of the utility plant.

Meter Base Installation

Supplied by UDWI REMC ● Supplied by member ●

Installation notes ●

General Notes and Guidelines:

- ◆ Disconnect (s) are required immediately adjacent to the meter base (within 10' wire).
- ◆ Mobile Homes are required to have a disconnect on a Pedestal or Meter Loop. Disconnects shall be installed a minimum of 24" above final grade.
- ◆ Overhead Service on buildings are only available on buildings with a permanent foundation.
- ◆ Ground Rods shall be installed 18" from building's foundation, with top of Ground Rods below final grade.
- ◆ Ground Rod size shall be 5/8" x 8' or 1/2" x 10'.
- ◆ Ground Wires to be installed outside of conduit.
- ◆ Pedestals for Meter Base and Disconnect (s) shall be constructed by the member.
- ◆ Pedestals shall be made from treated materials and must be suitable in size for the Meter Base and Disconnect (s) being installed.
- ◆ Temporary Services are to be used only during construction and for a maximum of 12 months.

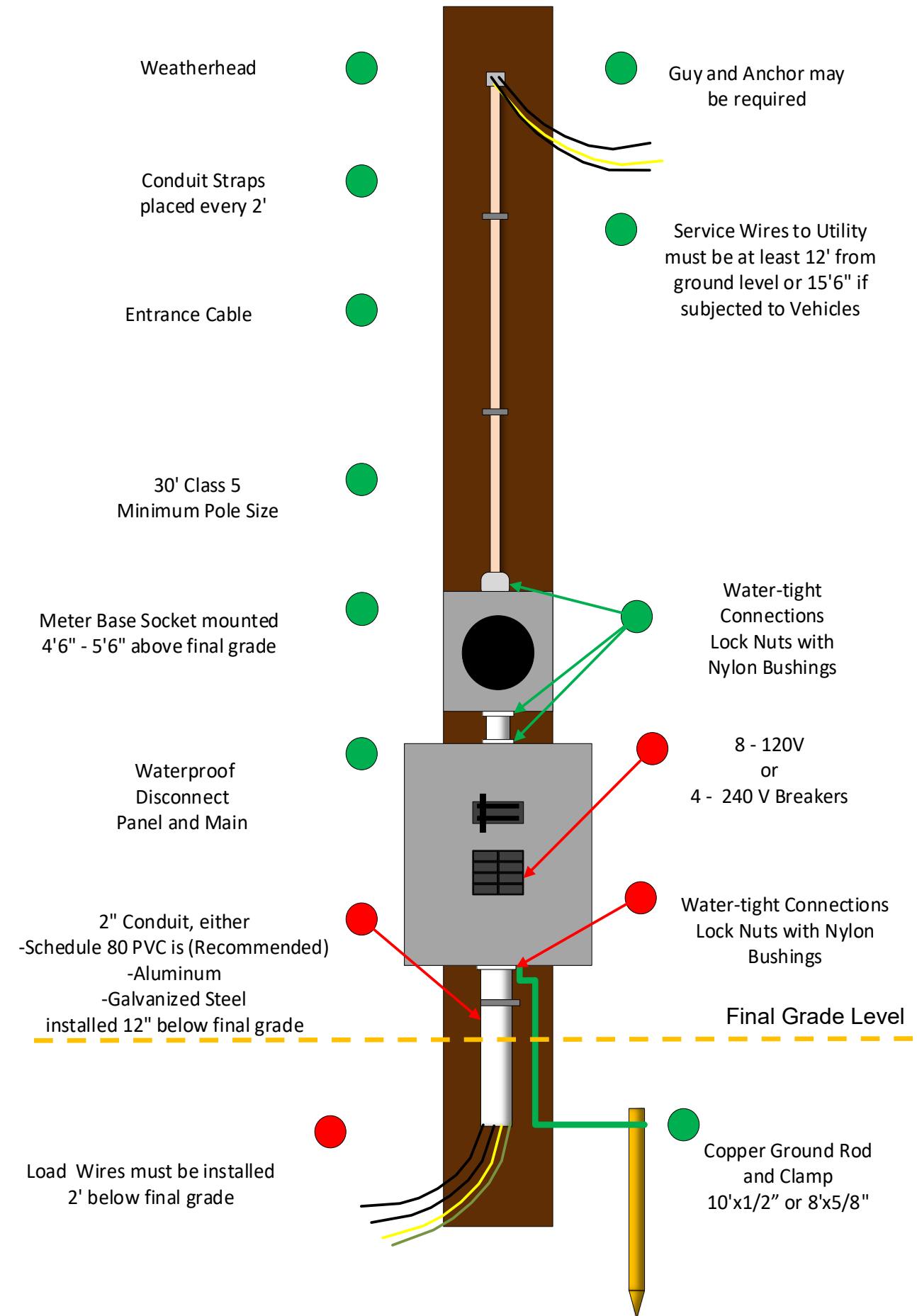
Utility Pole Notes and Guidelines:

- ◆ Pole and/or Pad Mounted Transformer location must be within 21' of a paved or gravel drive and must be approved by staking technician.
- ◆ Pad Mounted Transformers must be located a minimum of 10' from a building.
- ◆ Any pole for permanent or temporary service, installed by member, must be properly guyed and anchored.
- ◆ Make sure that the riser has sufficient height so that the wires connected to it will always remain at least 12' above ground level or 15'6" where subjected to vehicles.
- ◆ No equipment, other than that shown on the diagrams in this pamphlet, is allowed to be installed on any UDWI REMC pole.
- ◆ Meter Sockets must be accessible to UDWI REMC Personnel at all times.
- ◆ 200A and 320A Meter bases must be Ringless.
- ◆ 320A Meter base require bypass handle.

Meter Loop: Sold by UDWI REMC

Special Disconnect (200A only)

Meter Loop poles are owned and maintained by UDWI REMC.

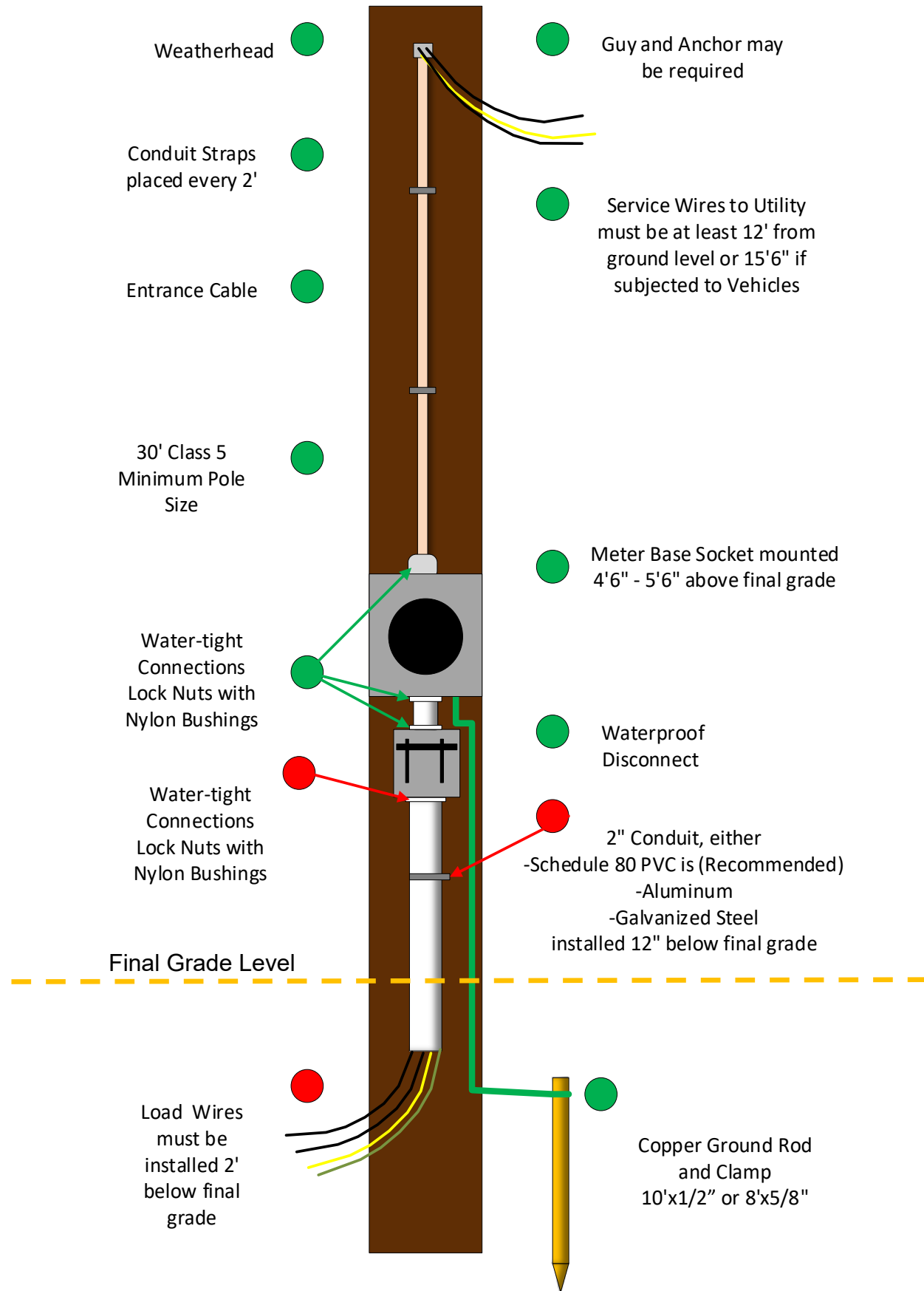


Meter Loop Installation Diagrams

Meter Loop: Sold by UDWI REMC

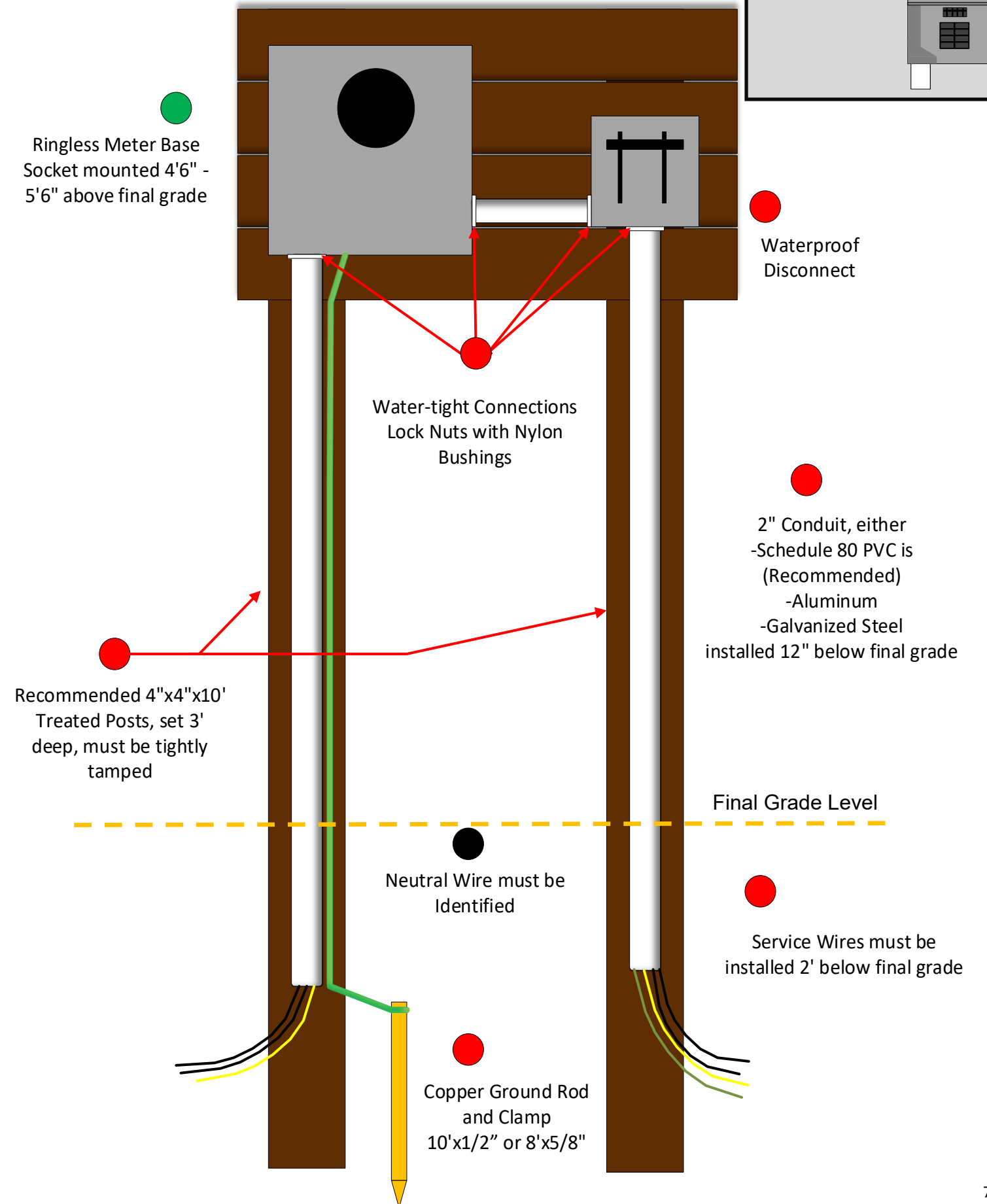
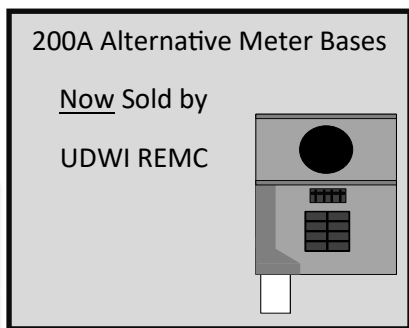
Standard Disconnect

Meter Loop poles are owned and maintained by UDWI REMC.

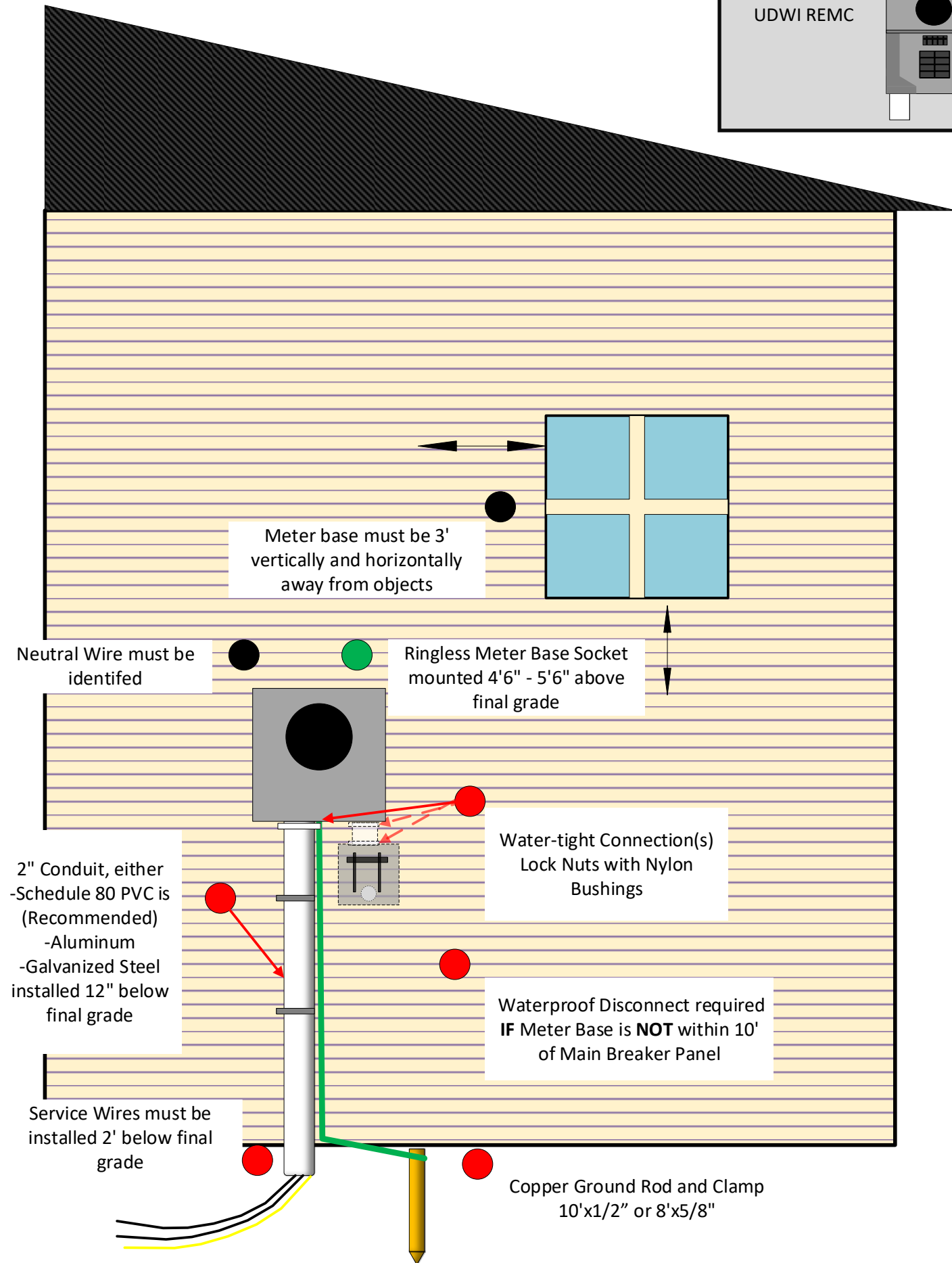
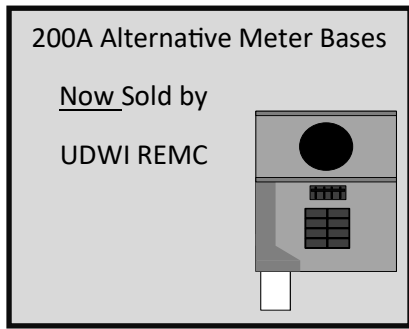


Underground Construction

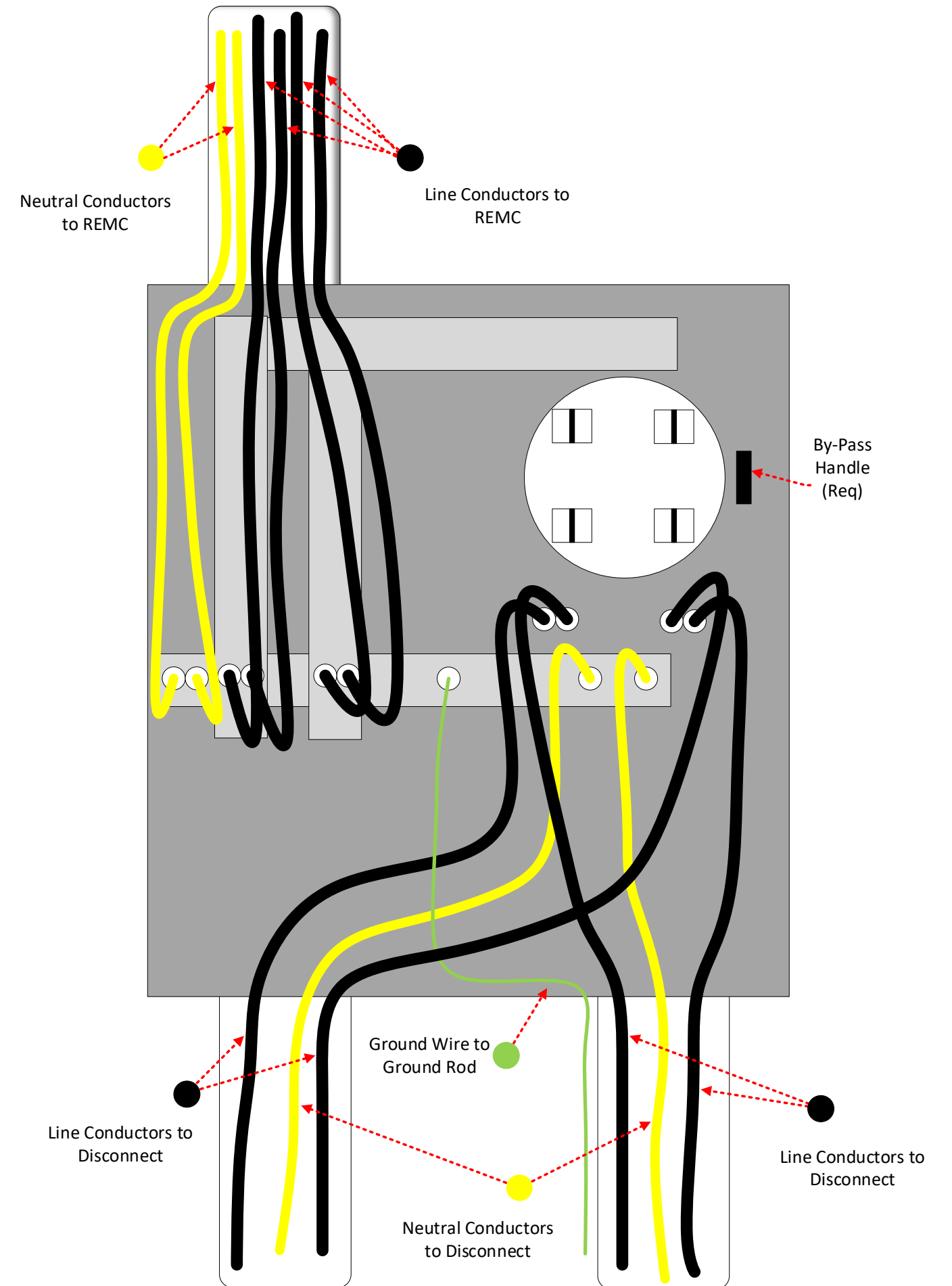
200A Underground Double Post



200A Underground Meter on Building

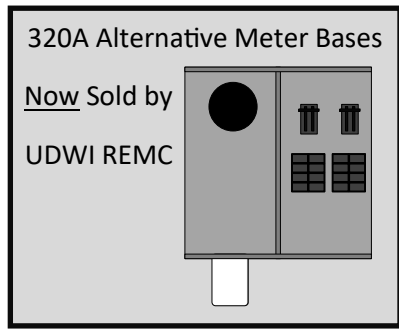
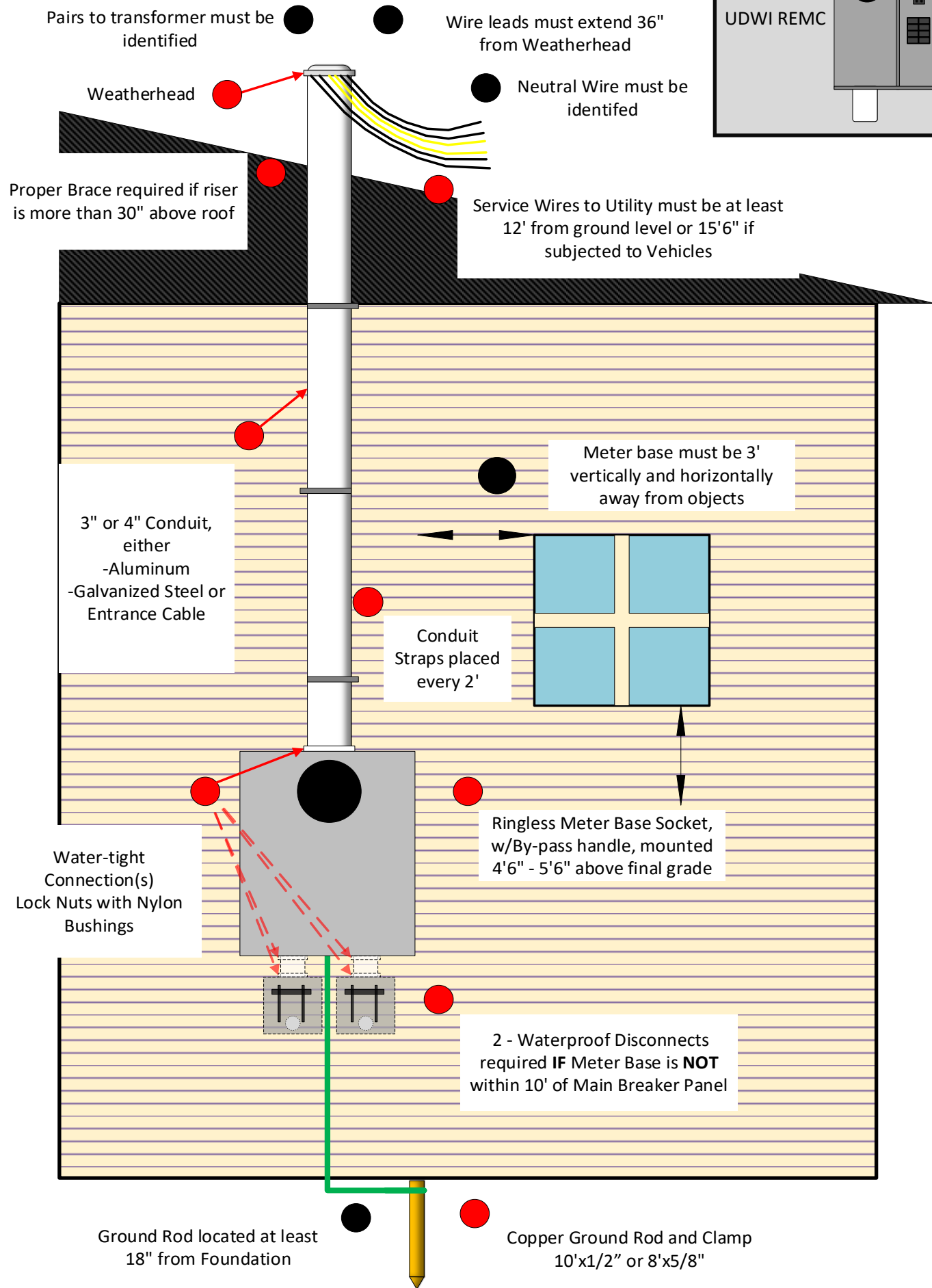


Wiring Diagram



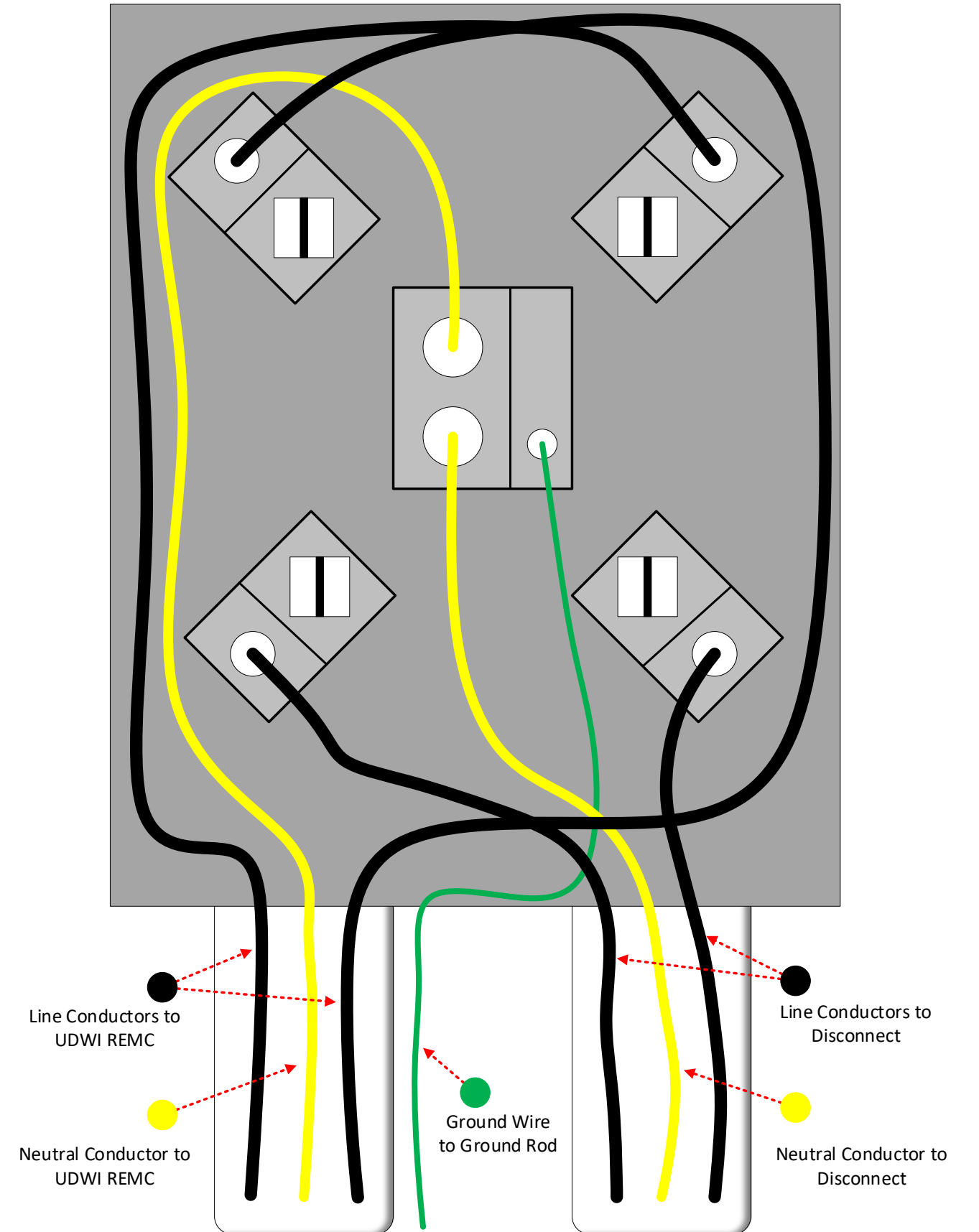
320A Overhead

Meter on Building



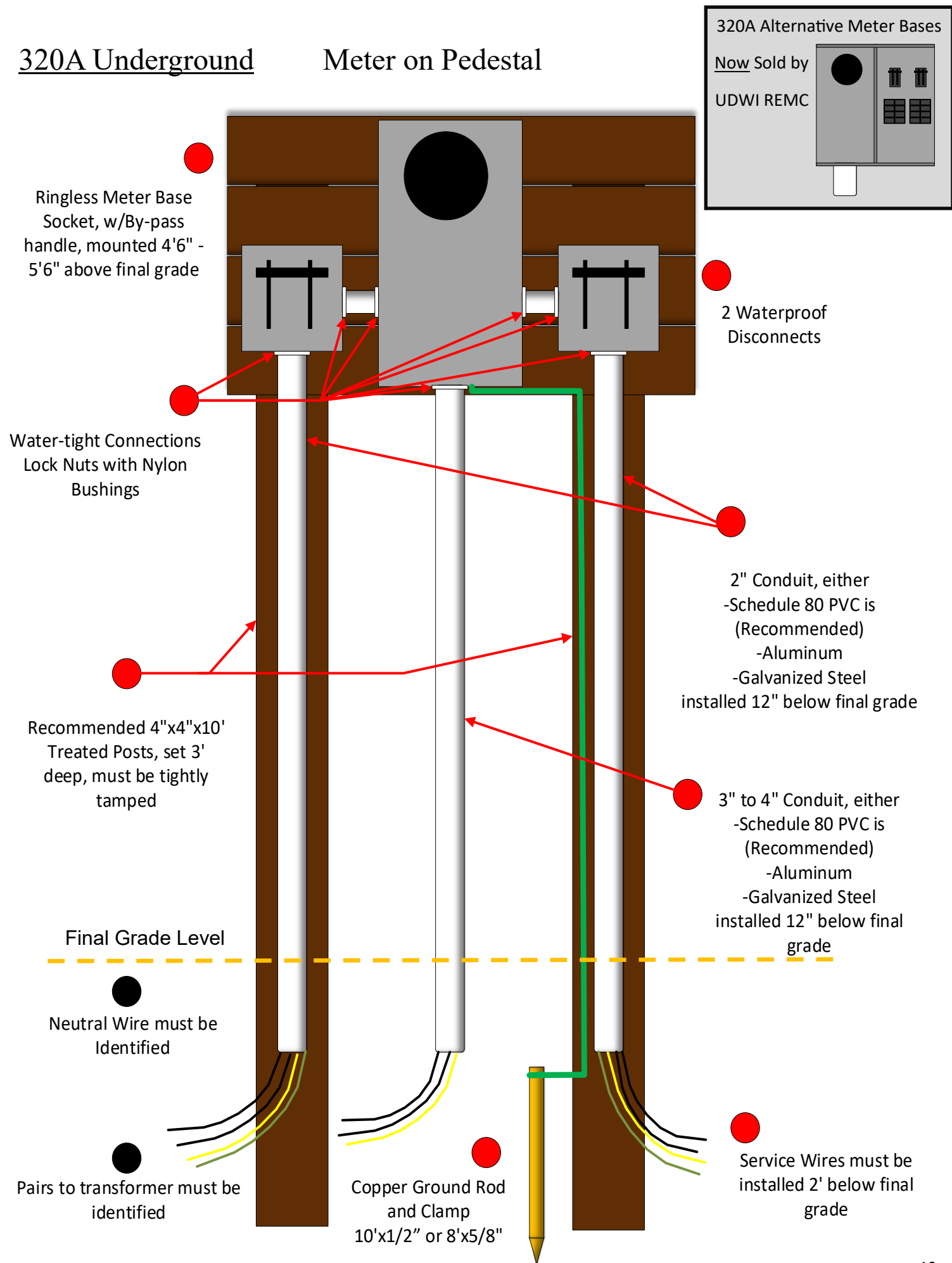
Wiring Diagram

Example: 200A Underground



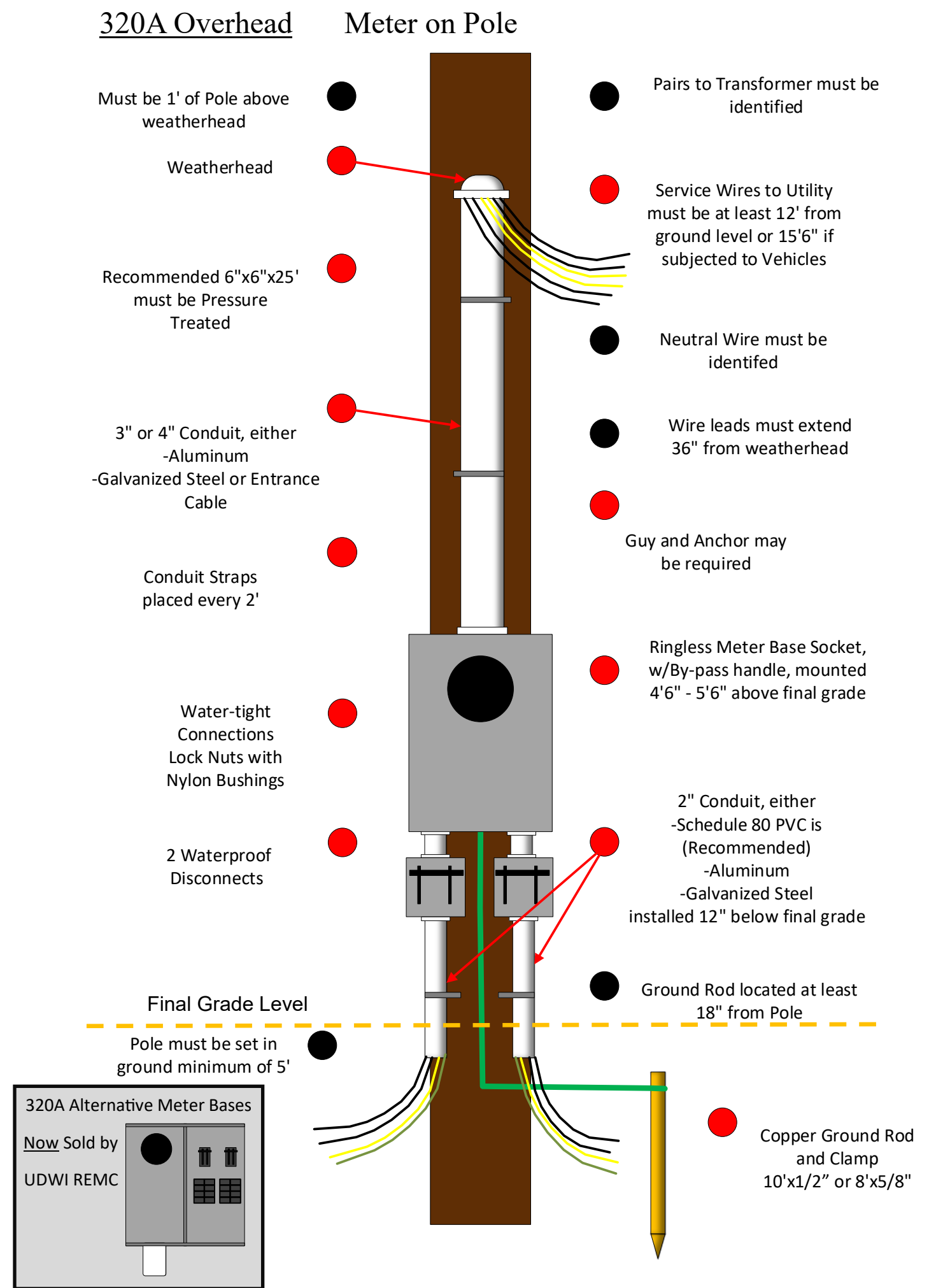
320A Underground

Meter on Pedestal



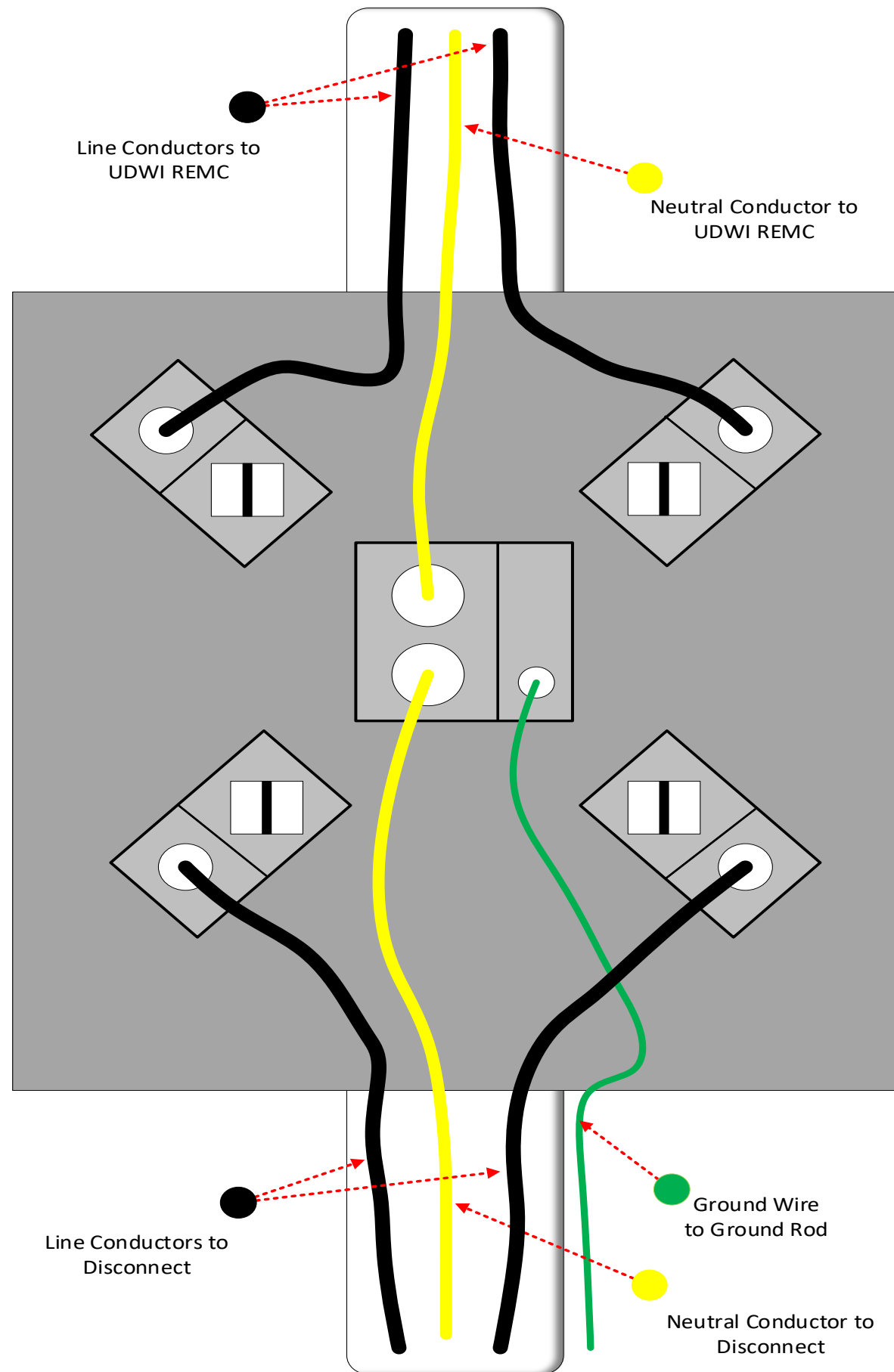
320A Overhead

Meter on Pole



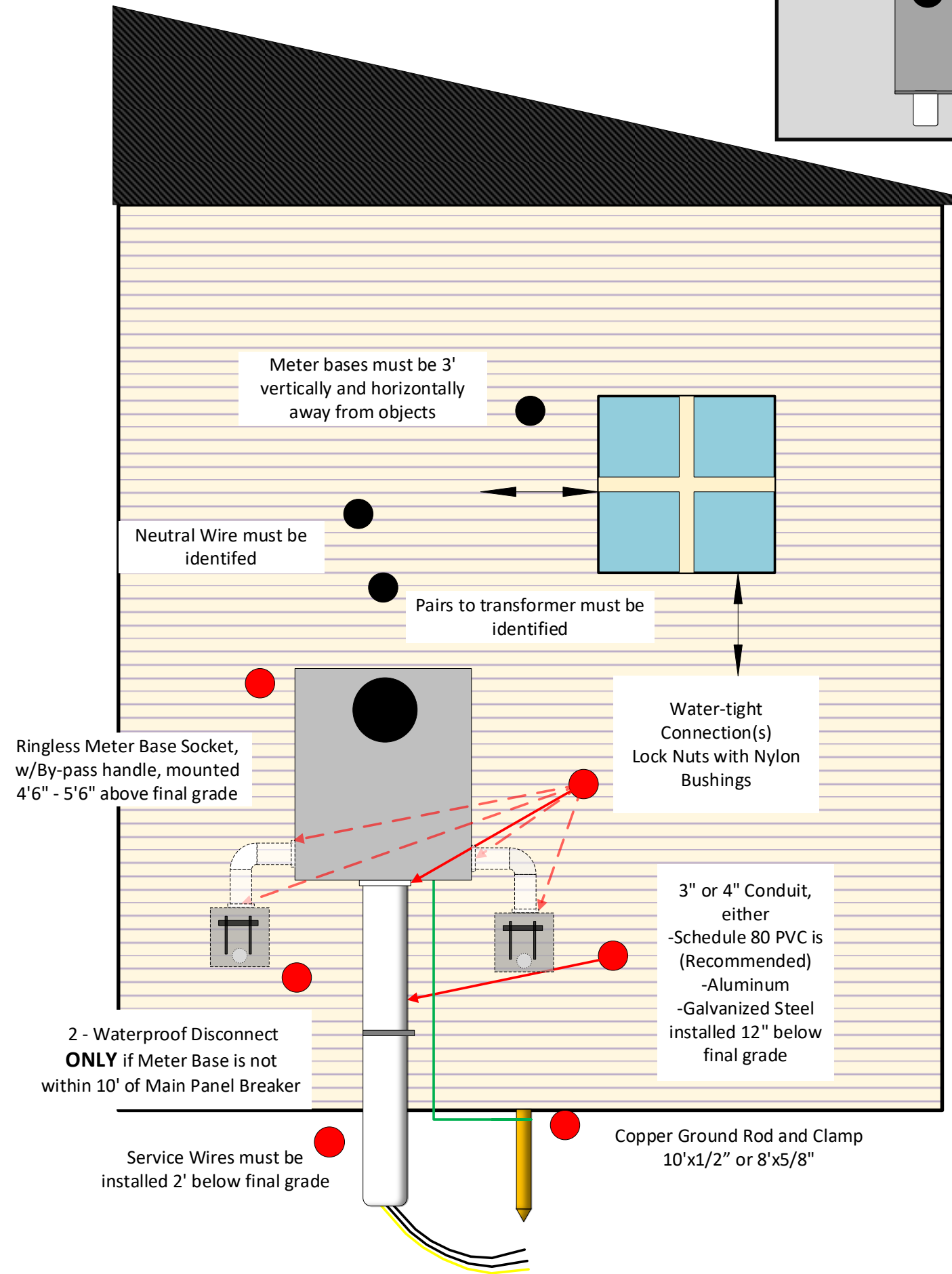
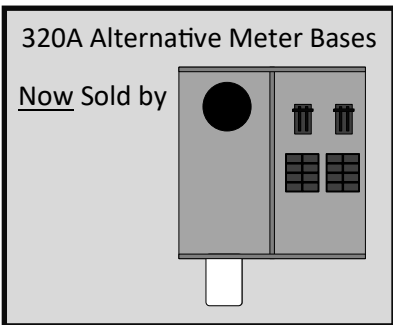
Wiring Diagram

Example: 100A-200A Overhead



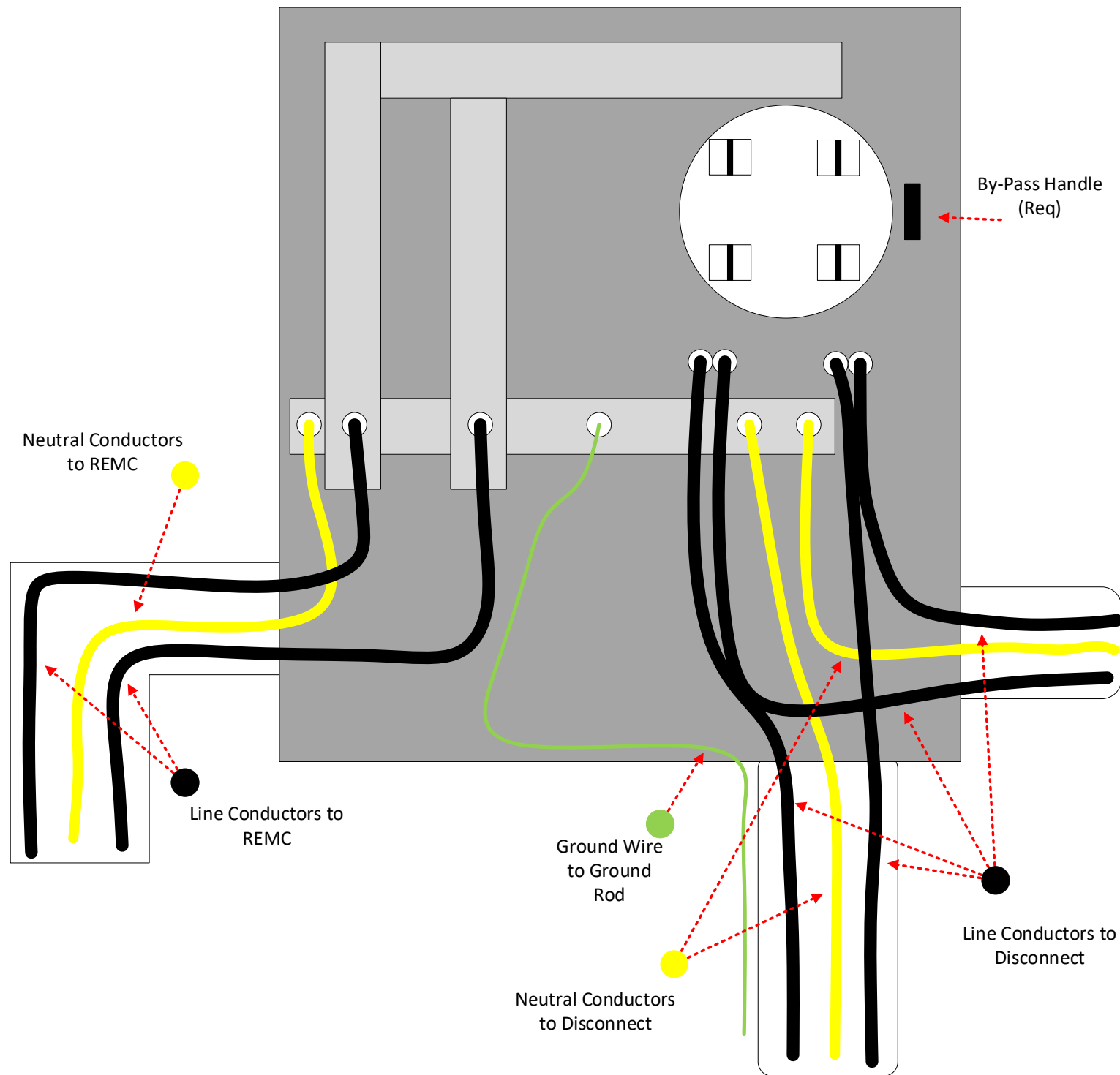
320A Underground

Meter on Building

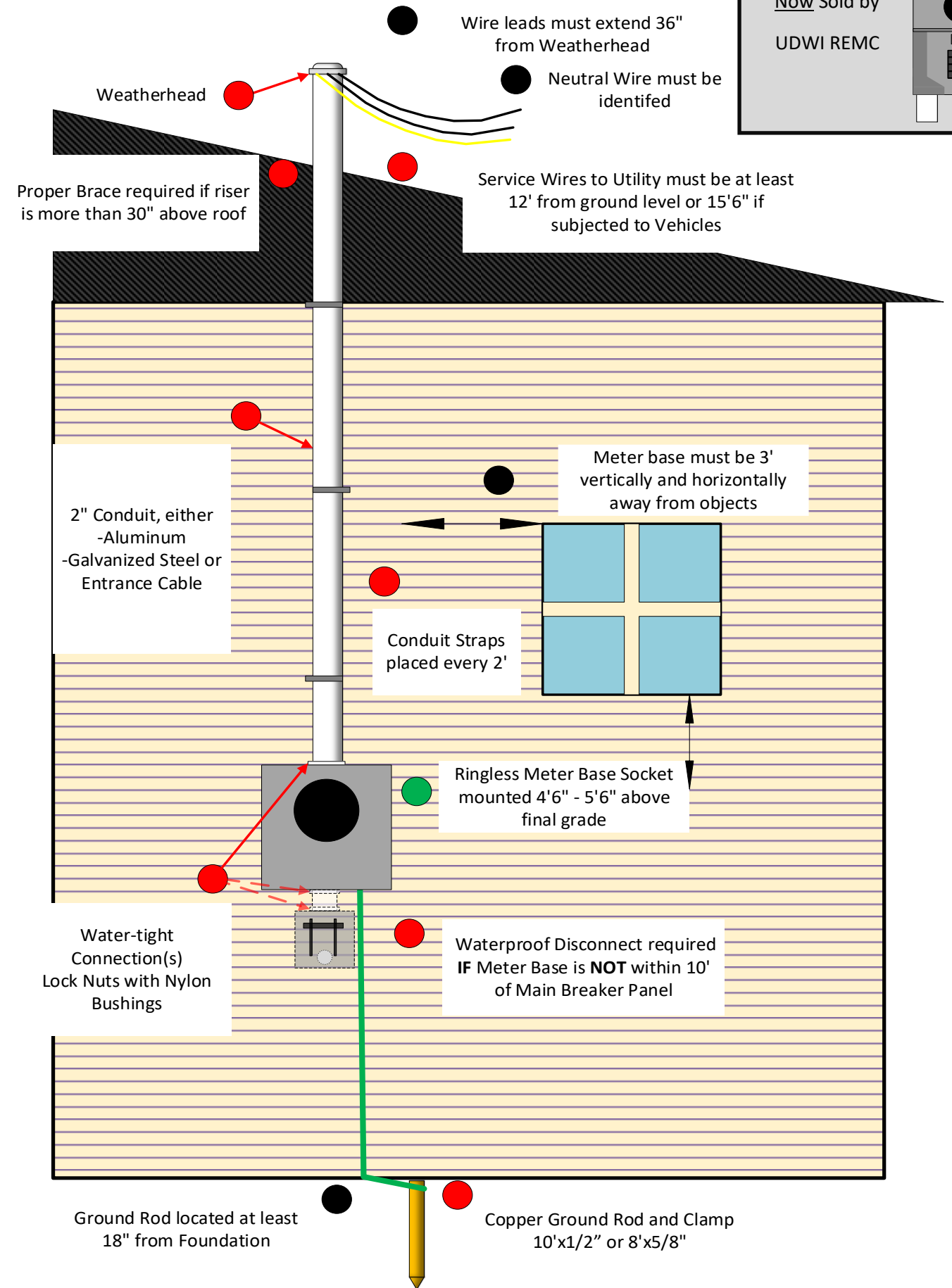


Wiring Diagram

Example: 320A Underground



100A-200A Overhead Meter on Building

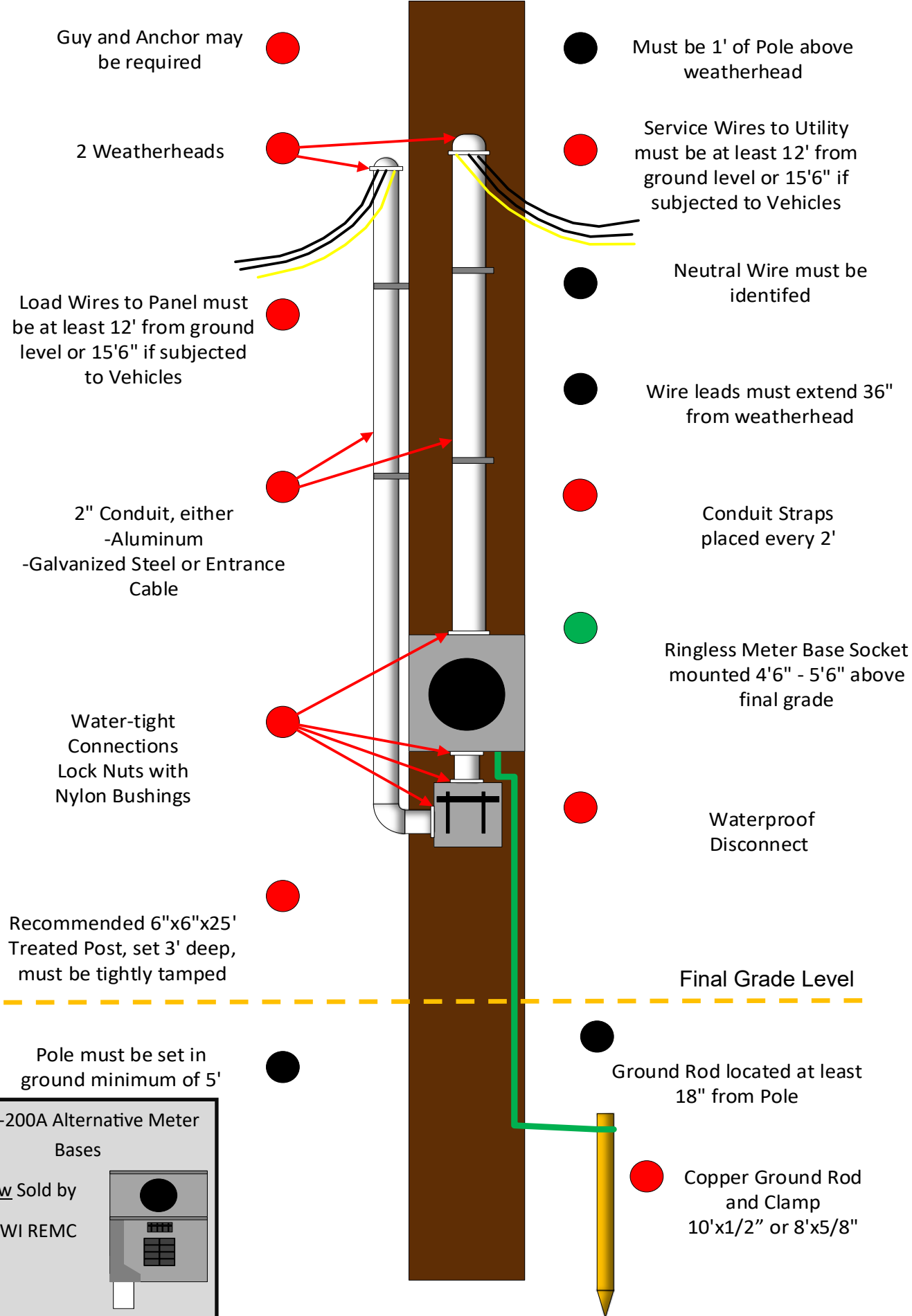


100A-200A Alternative Meter Bases

Now Sold by UDWI REMC

100A-200A Overhead

Overhead to Panel

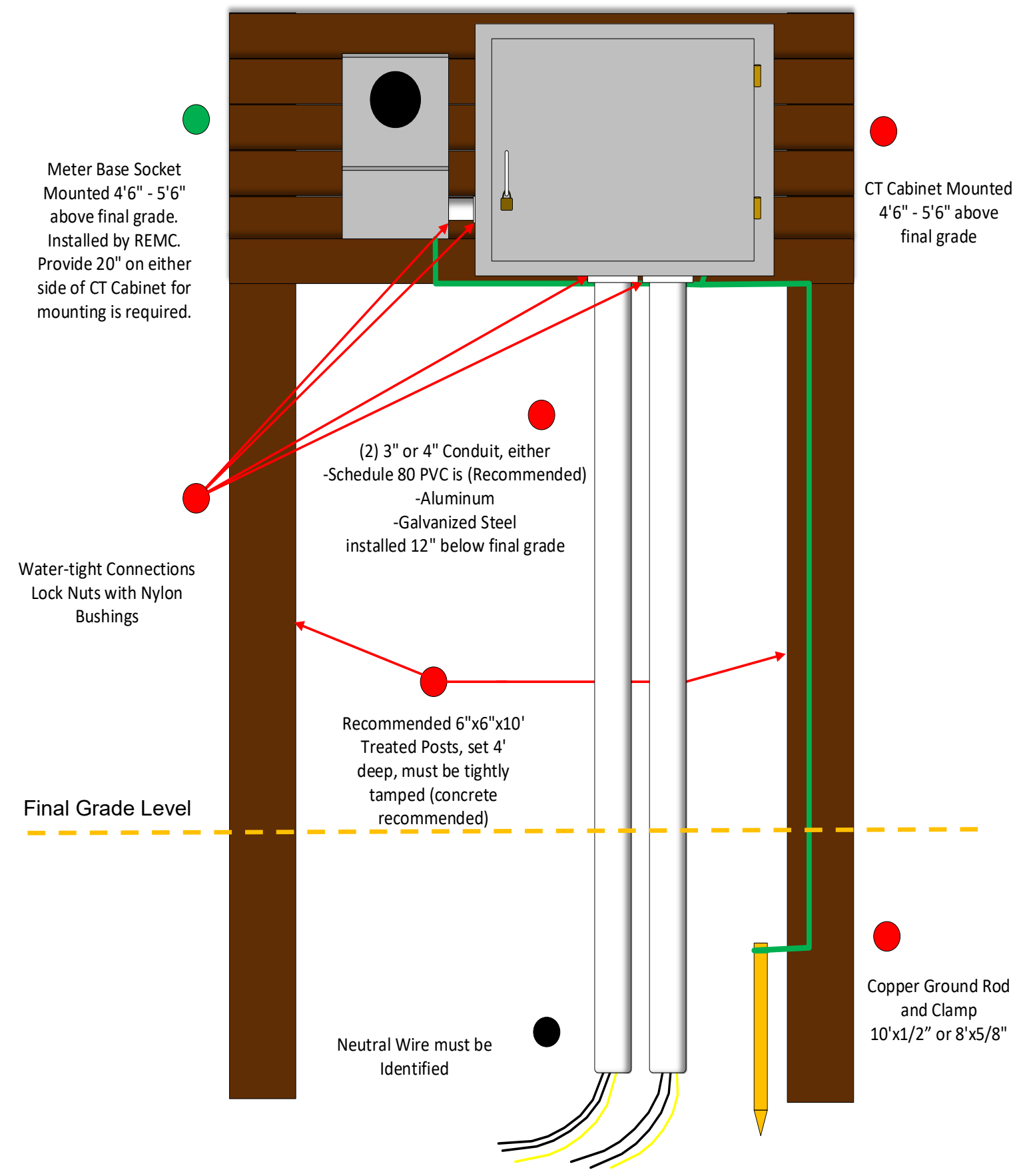


100A-200A Alternative Meter Bases

Now Sold by UDWI REMC

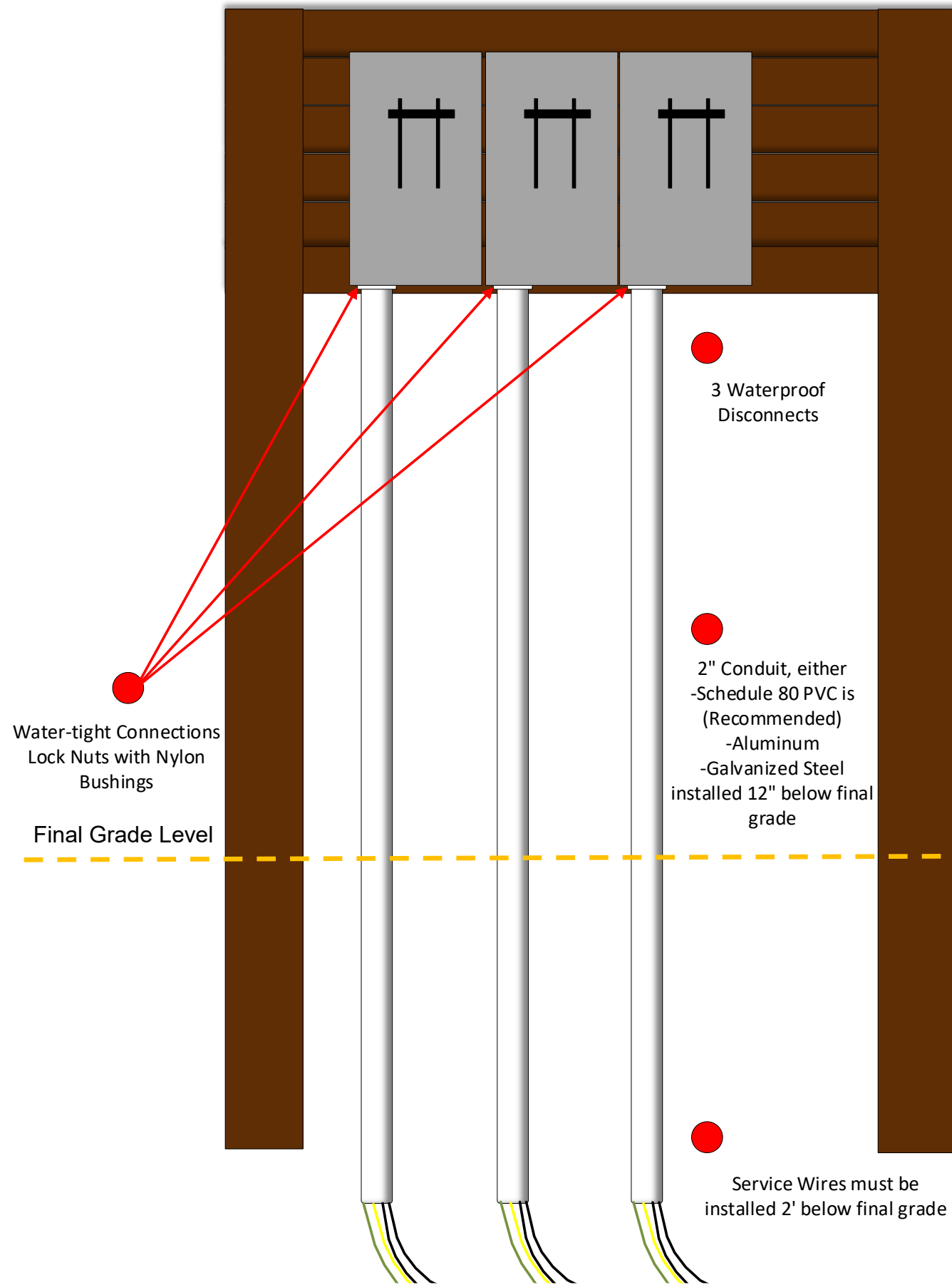
600A Underground

Meter on Pedestal Front View



600A Underground

Meter on Pedestal
Back View



Overhead Construction

100A-200A Overhead

Underground to Panel

