



Metering Enclosure And Equipment Standards

REVISION DATE: 02-15-2024

CITY OF OCALA ELECTRIC UTILITY

ELECTRIC METERING ENCLOSURE AND EQUIPMENT STANDARDS

To avoid the costs associated with having to replace unacceptable electric metering enclosures or equipment; all electric metering enclosures and equipment installed on the OEU system must comply with the following OEU Metering Enclosure and Equipment Standards. The requirements listed below are in addition to requirements of the latest version of the National Electrical Code and requirements of local code enforcement agencies. Failure to comply may result in service being denied.

GENERAL REQUIREMENTS:

1. Installations which have a rated capacity between 200 and 400 amperes (as determined by the OEU engineering and meter divisions) shall, at the option of the OEU meter division, be metered with a self-contained socket type meter or a transformer rated socket type meter using instrument transformers.
2. Where service ampacity is greater than 400 amps or the service voltage is greater than 240 volts, transformer-rated metering equipment is required.
3. All electric services will normally be metered by a single secondary meter installation for each point of delivery. Customers with multiple points of delivery who desire the benefits of single point-of-service metering should contact the OEU meter division.
4. Where multiple customers can be served by a common distribution point, all customers metered with instrument transformers shall be required to provide a load-side disconnecting means that is readily accessible to OEU employees. The disconnecting means shall accept an OEU padlock and will serve to disconnect and reconnect service, without affecting other customers.
5. Installation of load conductors in line side raceway is prohibited, conductor exiting a load panel shall not pass through any portion of a metering enclosure, and secondary metering conductors shall occupy their own individual raceways exclusive of any other wiring, control systems or cables. Any variation of this requirement shall first be approved by the OEU meter division.
6. All 3-phase transformers with wye configured secondaries (120/208v or 277/480v) shall be wired to provide the customer with reverse rotation (CBA configuration). All 3-phase transformers with delta configured secondaries (120/240v + 208v high leg or 240/480v + 415v high leg) shall be wired to provide the customer with forward rotation (ABC configuration). If the customer requires opposite rotation from what OEU provides, the customer shall be responsible for changing the rotation in their panels or at their equipment, as the Utility will not change rotation at the 3-phase transformers.

METERING SECURITY:

The following provisions are applicable to sealing and/or locking of metering installations.

1. Metering enclosures shall provide a single latch or hasp for securing the enclosure cover with a seal and/or padlock. Enclosure covers attached with multiple bolts, screws or hasps are prohibited.
2. Metering enclosures and instrument transformer cabinets shall have provisions for locking and sealing exclusively by OEU personnel. OEU reserves the right to modify metering and/or equipment enclosures for the purposes of safety and security.
3. Security seals installed by OEU shall not be removed, altered, or damaged in any way. Only authorized OEU personnel or designees are permitted to install or remove security seals from metering equipment and enclosures. Unauthorized removal, altering, or damaging of OEU security seals is considered tampering and is subject to a tampering fee.

METERING ENCLOSURE REQUIREMENTS:

The following provisions are applicable to all metering installations.

1. All metering enclosures shall be labeled with the manufacturer's name, catalog number, electrical rating for volts + amps, and service + load terminal conductor size for both copper and aluminum.
2. All metering enclosures, single or multi-position, shall have a ringless cover.
3. Metering enclosures used on underground services must accept 3" conduit and must allow adequate clearance for line conductors based upon OEU standards.
4. Sockets must have pressure type jaws designed for full contact with both sides of the meter blades.
5. Self-contained metering enclosure terminals shall be equipped with 1/2" hex head bolts or a minimum of 5/16" Allen set screws, unless otherwise authorized by the OEU meter division.
6. Two neutral terminals shall be mounted on a common bus and connected to the grounding terminal.
7. Combination enclosures that would allow line side conductor to pass through the customer's load panel are permitted if acceptable safeguards are in place (See: EXHIBIT 1). On combination enclosures, a permanent metal barrier must be present between the meter enclosure and any attached load panel. This barrier must not be removable (See: EXHIBIT 2).
8. For multi-socket assemblies, each meter socket position shall have an individual, ring-less cover capable of being removed and replaced without disturbing the other socket positions.
9. For any 3-wire self-contained metering installation utilizing a 120/208-volt supply source, the customer shall furnish and install a grounded fifth terminal. This terminal is to be mounted in the nine o'clock position inside the meter socket.

SELF-CONTAINED METERING INSTALLATIONS:

The following provisions are applicable to Self-contained metering installations.

1. Self-contained meter enclosures and meter enclosures used for temporary power supply shall be the responsibility of the contractor and may be purchased from an equipment supplier. Meter enclosures provided by the contractor must be compatible with meters used by OEU and shall comply with all applicable OEU Meter Enclosure and Equipment Standards.
2. Unless approved by OEU, all three-phase self-contained enclosures, all single-phase self-contained enclosures rated over 200 amps, and all self-contained commercial meter enclosures, regardless of capacity; shall have sockets equipped with a load by-pass handle designed to allow for meter exchange without interruption of electric service to the customer (See: EXHIBIT 3).
3. OEU assumes no responsibility for maintenance of self-contained meter enclosures.
4. Use of K-Base (bolt in) meter enclosures is prohibited.

TRANSFORMER-RATED METERING INSTALLATIONS:

The following provisions are applicable to Transformer-rated metering installations.

1. For transformer-rated metering installations only: Contractors shall obtain metering enclosure and instrument transformers (contractor to supply equipment cabinet) from the OEU Meter Division by presenting Electrical Permits for jobs located on the OEU system. Metering enclosures and associated metering equipment that is furnished by the contractor for use on the OEU system must have prior approval of the OEU meter division. Transformer-rated metering enclosures and associated metering equipment issued by the OEU meter division are customer-specific and shall be installed on the specified OEU metered service only.
2. No metering enclosure or instrument transformers shall be issued after 180 days from date of permit without special permission from the OEU meter division.
3. Instrument transformer cabinets shall not be used as a raceway for other conductors.
4. Instrument transformer cabinets and metering enclosures, used for residential or commercial applications, shall be installed by the electrical contractor to the specifications of the OEU meter division.
5. Metering enclosures and instrument transformer cabinets must share a common ground if located within 6' of each other. A ground rod must be driven at the base of the metering installation, and the grounding lug must be tied to the ground rod with a minimum of #6 Soft Drawn Bare Copper wire.
6. OEU is responsible for the control wire harness at the instrument transformers and in the metering enclosures.
7. Instrument transformer cabinets will be supplied by the electrical contractor, and the cabinets must be made of aluminum or mild steel (no plastic or fiberglass cabinets permitted). The dimensions of the cabinet shall be 34" Height x 32" Width x 10" Depth. See (EXHIBIT 7) for wiring instructions.

TRANSFORMER-RATED METERING INSTALLATIONS (CONTINUED):

The following provisions are applicable to Transformer-rated metering installations.

8. CT polarity marks (dot or HI) shall face towards line feeding service (towards OEU). For 3-phase delta services, mount “high leg” CT at furthest right or bottom position, no exceptions.
9. Conductors must be phased correctly through each CT with color coded phasing tape inside the CT cabinet.
10. All 3-phase transformers with wye configured secondaries (120/208v or 277/480v) shall be wired to provide the customer with reverse rotation (CBA configuration). All 3-phase transformers with delta configured secondaries (120/240v + 208v high leg or 240/480v + 415v high leg) shall be wired to provide the customer with forward rotation (ABC configuration). If the customer requires opposite rotation from what OEU provides, the customer shall be responsible for changing the rotation in their panels or at their equipment, as the Utility will not change rotation at the 3-phase transformers.

LOCATION OF METERING EQUIPMENT:

The following provisions are applicable to the physical location of metering equipment.

1. All metering equipment shall be located outdoors in fully accessible areas. These areas shall always be kept free of obstructions and open to utility representatives.
2. Meters shall not be located in commercial or residential garages, carports, screen porches or any other room or location that would cause unmetered conductors to be considered inside the building.
3. The location of the current transformers (secondary) shall be specified by OEU engineering division and approved by the OEU meter division.
4. Current transformers should typically be installed in a suitable enclosure supplied by the electrical contractor; but can also be installed inside a pad-mount type transformer when deemed applicable by the OEU engineering division and approved by the OEU metering division. Instrument transformers must be within 25 feet of the meter enclosure.
5. A minimum of 1” schedule 40 PVC conduit shall be used from the instrument transformer location to the meter enclosure. The use of rigid metal conduit may be allowed on a case-by-case basis, though it is not preferred in most installations. A junction box or other device which would allow access to the metering conductors shall not be allowed. Contact the OEU meter division for more information and details.
6. Meters shall be located on the line side of the individual customer's main disconnecting means. When used, current transformers should be located on the line side of the main disconnecting means. Exceptions may be specified and approved by the OEU meter division.
7. Metering equipment or cabinets must have four feet minimum clearance around congested areas and traffic areas for OEU maintenance and testing. (Drive thru, parking lot, back alleys, etc.)
8. The location of primary metering equipment shall be specified by the OEU engineering division. Installation of primary metering equipment shall be the responsibility of OEU personnel.

MOUNTING OF METER ENCLOSURES AND EQUIPMENT CABINETS:

The following provisions refer to the physical mounting of meter enclosures and equipment cabinets.

1. The metering enclosure shall be mounted on the finished outside wall of all structures and shall not be fastened to a sub-wall and then surrounded by siding, brick, wood, plaster, stucco, etc. Meter enclosures must not be covered or hidden by trees, bushes, another cabinet, or any other structure. A minimum of 48" of clearance must be observed in front of the metering enclosure to allow for safe access during maintenance.
2. Individual and horizontal gang type meter enclosures shall maintain a maximum of 5'-6" and a minimum of 4'-6" in height to the centerline of the meter sockets, measured from finished grade. The bottom of each gang type meter enclosure must be no less than 1'-6" measured from final grade. (See: EXHIBIT 8).
3. Mounting heights for mobile home meter pedestals shall be subject to individual determination of the OEU meter division, but the bottom of the meter pedestal must be no less than 3'-6" measured from final grade. (See: EXHIBIT 9).

MULTIPLE-OCCUPANCY DWELLINGS AND STRUCTURES:

The following provisions are applicable to multiple-occupancy dwellings.

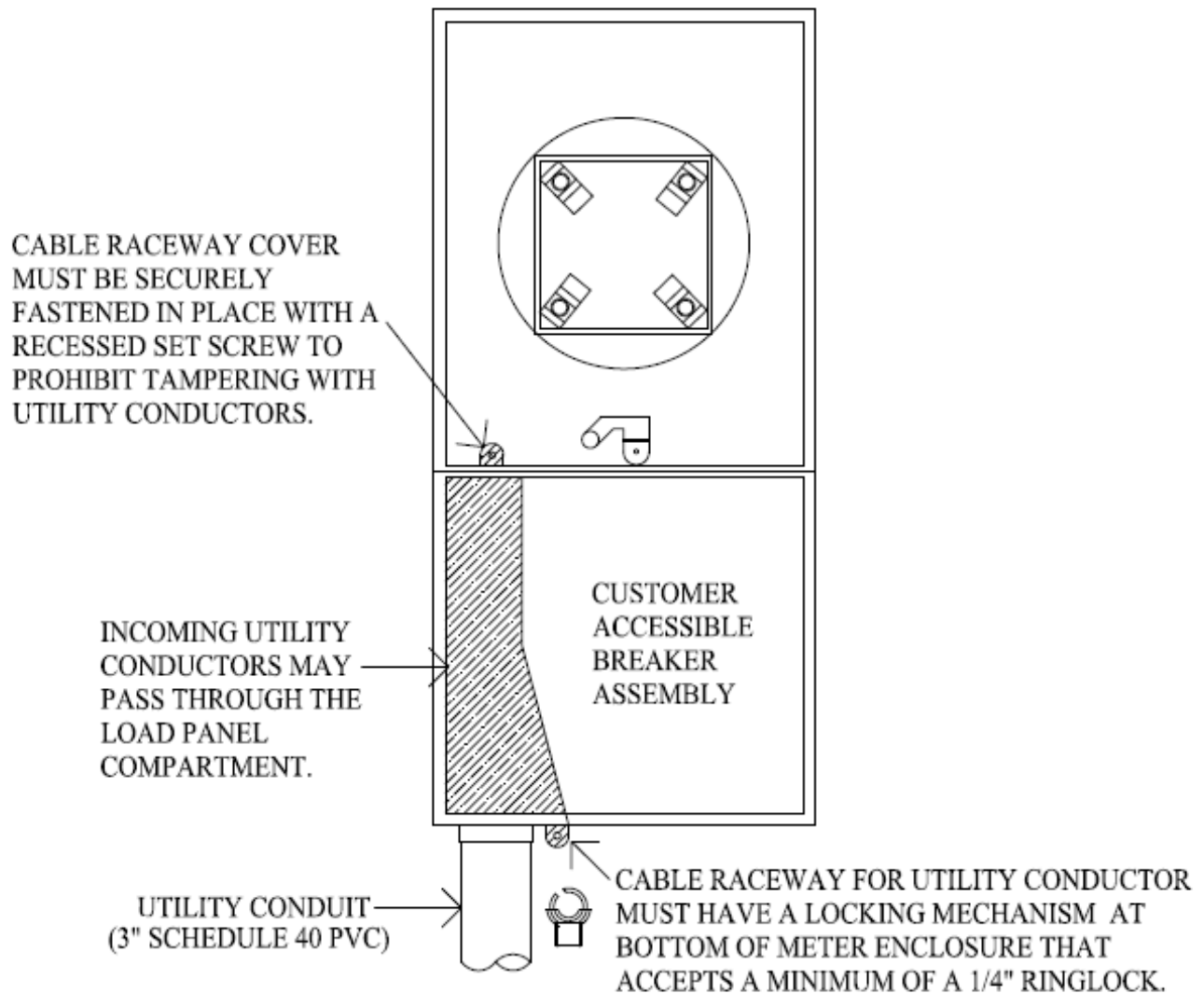
1. All meter sockets or enclosures on multiple-occupancy dwellings or commercial structures requiring the use of more than one meter shall be permanently identified as to the apartment, store, suite, or area served.
2. The meter enclosure cover and the interior of the enclosure shall both be permanently identified to correspond to the apartment or unit and building number. The use of a permanent marker or stamping of the enclosure will be acceptable for interior markings only. Exterior markings must be stamped or labeled with permanently affixed metal or plastic name plates. Numbers must be a minimum of 1/4 inch high to be acceptable. Use of plastic labeling tape, nameplates, or numbers fastened solely with adhesive backing is prohibited.
3. The contractor shall coordinate identification of multiple dwelling sites with the OEU meter division. Power will not be turned on until the buildings, apartment doors, meter sockets, and enclosures are permanently identified, and wiring from the socket to the corresponding unit/apartment is verified by the OEU meter division. OEU will accept any one of three verification methods for the wiring of equipment before energization:
 - a) Letter of verification from a Professional Engineer stating that all wiring was tested with a continuity meter to ensure all secondary connections are correct.
 - b) The Building Inspector (City of Ocala or Marion County) has observed the electrical contractor "ringing out the wires" with a continuity meter and has validated that all secondary connections are correct.
 - c) The electrical contractor may use color coded wires for each secondary connection point in accordance with the OEU standards illustrated in EXHIBIT 12 of this document.
4. *Multi-position (vertical) meter centers:* Vertical meter centers must be approved by OEU meter division prior to installation. Once approved, vertical meter centers for either residential or commercial applications shall be furnished, installed, and maintained by the customer. Vertical multi-position meter centers shall maintain a maximum height of 6'-0" measured from finished grade to the center of the highest meter socket. In all cases, the upper row of meter sockets shall be between 4'-0" and 6'-0" from finished grade; with no meter socket lower than 3'-0" from finished grade.

SERVICE ENTRANCE:

The following provisions shall apply to the customer's service entrance

1. Service entrance conduits or metallic tubing should be continuous where practical. When fittings with removable covers are necessary, they shall not be concealed.
2. Service provided through more than one meter shall be provided with each set of load side conductors in its own individual conduit or raceway.
3. Service raceways, wireways and pull boxes housing individual or multiple service taps shall be fitted with an approved means for sealing or locking.
4. Aluminum conductors are approved for use provided all connectors used with them are suitable for aluminum and provided all terminations are treated with corrosion inhibiting compound in the manner prescribed by the cable manufacturer. Service entrance conductors shall be aluminum or copper; combinations of the two are prohibited.
5. All service entrance neutral conductors shall be permanently identified inside of self-contained meter enclosures or instrument transformer cabinets, and at the point of service with a permanent white marking system. All neutral conductors shall be insulated. Conductors that are intended for use as ungrounded conductors, whether used as single conductors or in multi-conductor cables, shall be identified to be clearly distinguishable from grounded or grounding conductors.
6. The four-wire, three-phase, 120/240-volt delta service entrance shall have the phase with the highest voltage to ground (high leg) plainly identified at the weather-head, at the instrument transformer location, inside of the meter enclosure, and inside of the disconnecting means with an orange marking system. This high leg shall be located on the right outside (C- Phase) position, inside of the meter enclosure. When current transformers are used, the high leg shall be located on the bottom or right-hand side of the current transformer assembly.
7. The service entrance conductors shall project (3'-0" minimum) outside the weather-head for connection to the service wires on overhead installations.
8. Except for the installation and maintenance of its own property, OEU does not normally install or repair wiring on customer's premises, and therefore is not responsible for the quality of electricity provided beyond the point of delivery and does not assume any responsibility for (or liability arising because of) the condition of wires or apparatus on the premises of any customer beyond this point.
9. On metering enclosures with an underground service entrance, the left portion of the metering enclosure will be used only for OEU, and the customers load side conductors shall never crossover the line side conductors.

ACCEPTABLE FOR UNDERGROUND SERVICE



3-WIRE, UG SERVICE, (120/240V OR 120/208V)
CUSTOMER OWNED METER SOCKET

REVISED DATE: FEBRUARY 13, 2019

REVISED BY: FRANK BROWN

APPROVED BY: BEAU SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

COMBINATION METER SOCKET WITH BREAKER PANEL

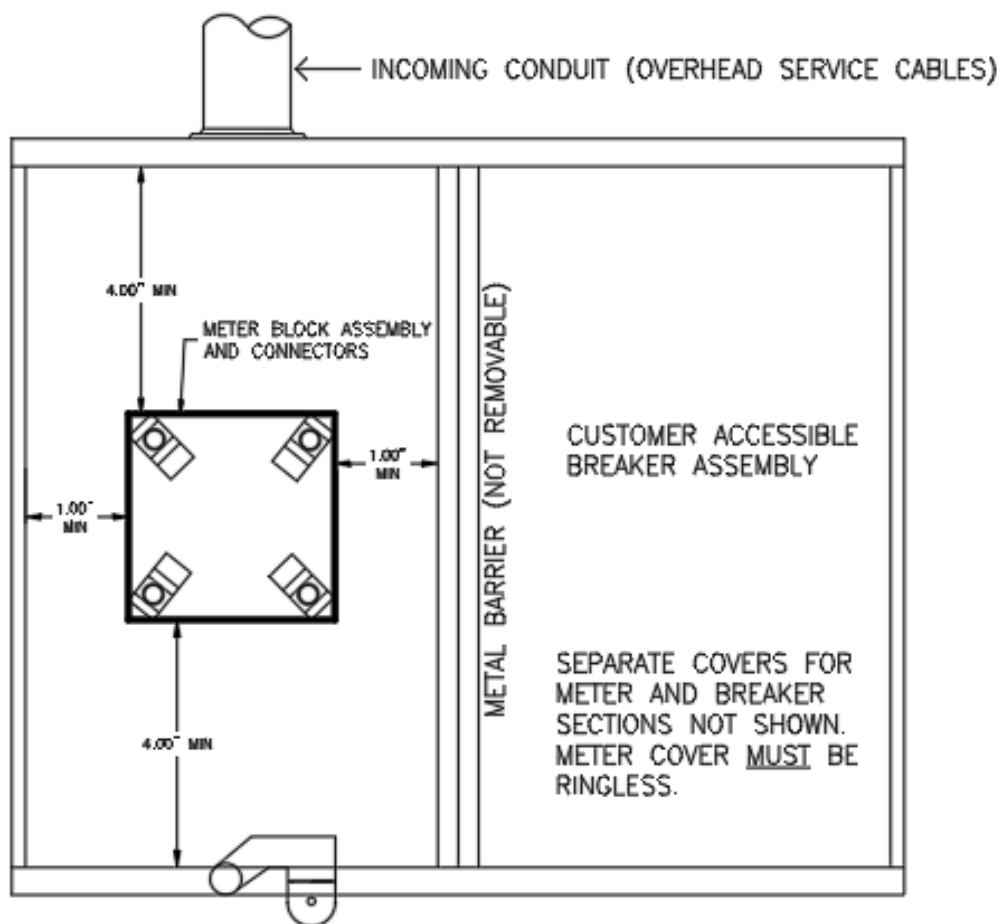
EXHIBIT 1

OCALA ELECTRIC UTILITY STANDARDS

RESIDENTIAL METER SOCKET

SPACING REQUIREMENTS

3-WIRE, OH SERVICE ONLY (120/240V OR 120/208V, 200 AMP OR LESS)



NOTES:

1. THIS SOCKET IS USED FOR OVERHEAD SERVICE ONLY AND IS BUILT WITH NO OBSTRUCTION TO FULL DEPTH ON EITHER SIDE OF THE BLOCK ASSEMBLY AREA, (SEE BOLD SQUARE IN DRAWING), MIN 1.00" CLEARANCE TO LEFT SIDE, AND MIN 1.00" CLEARANCE TO RIGHT SIDE IS ACCEPTABLE (AS SHOWN) PROVIDED 3.00" OF UNOBSTRUCTED DEPTH IS ALSO MADE AVAILABLE AT BOTH SIDES OF SOCKET BLOCKS FOR LINE SIDE CONDUCTORS.
2. SOCKET MUST ACCEPT 3" SCHEDULE 40 PVC CONDUIT AT TOP.
3. BYPASS HORNS ARE NOT ACCEPTABLE.
4. METER HOUSING MUST BE GROUNDED.
5. 5TH TERMINAL REQUIRED IF USED ON 3-WIRE 120/208V SERVICE.

REVISED DATE: FEBRUARY 14, 2019

REVISED BY: FRANK BROWN

APPROVED BY: DEAN SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

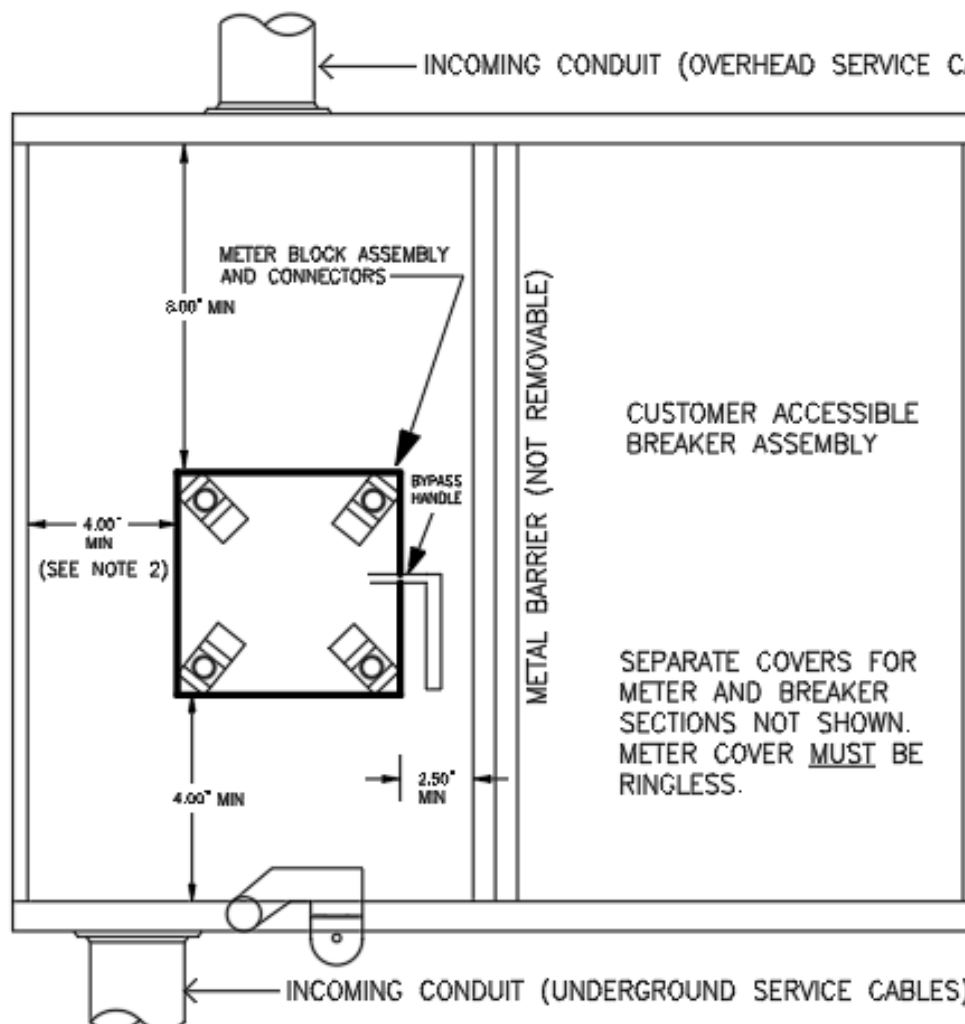
COMBINATION METER SOCKET WITH BREAKER PANEL

EXHIBIT 2

OCALA ELECTRIC UTILITY STANDARDS

RESIDENTIAL METER SOCKET SPACING REQUIREMENTS

3-WIRE, OH/UG SERVICE (120/240V OR 120/208V, 400 AMP OR LESS)



NOTES:

1. IF THE SOCKET IS USED FOR U.G. SERVICE AND IS BUILT WITH NO OBSTRUCTION TO FULL DEPTH ON EITHER SIDE OF THE BLOCK ASSEMBLY AREA, (SEE BOLD SQUARE IN DRAWING), MIN 4.00" CLEARANCE TO LEFT SIDE, AND MIN 2.5" CLEARANCE TO RIGHT SIDE IS ACCEPTABLE (AS SHOWN) PROVIDED 3.00" OF UNOBSTRUCTED DEPTH IS ALSO MADE AVAILABLE AT BOTH SIDES OF SOCKET BLOCKS FOR LINE SIDE CONDUCTORS.
2. IF LINE CONDUCTORS COME IN FROM THE TOP OF THE SOCKET, SIDE TO BLOCK CLEARANCE MAY BE REDUCED TO 2.5" WITH 3" OBSTRUCTION DEPTH AT THAT SIDE, AND 2.5" BLOCK CLEARANCE TO THE OTHER SIDE.
3. SOCKET MUST ACCEPT 3" SCHEDULE 40 PVC AT BOTTOM.
4. BYPASS HORNS ARE NOT ACCEPTABLE.
5. METER HOUSING MUST BE GROUNDED.
6. 5TH TERMINAL REQUIRED IF USED ON 3-WIRE 120/208V SERVICE.

REVISED DATE: FEBRUARY 14, 2019

REVISED BY: FRANK BROWN

APPROVED BY: DEAN SPEARS

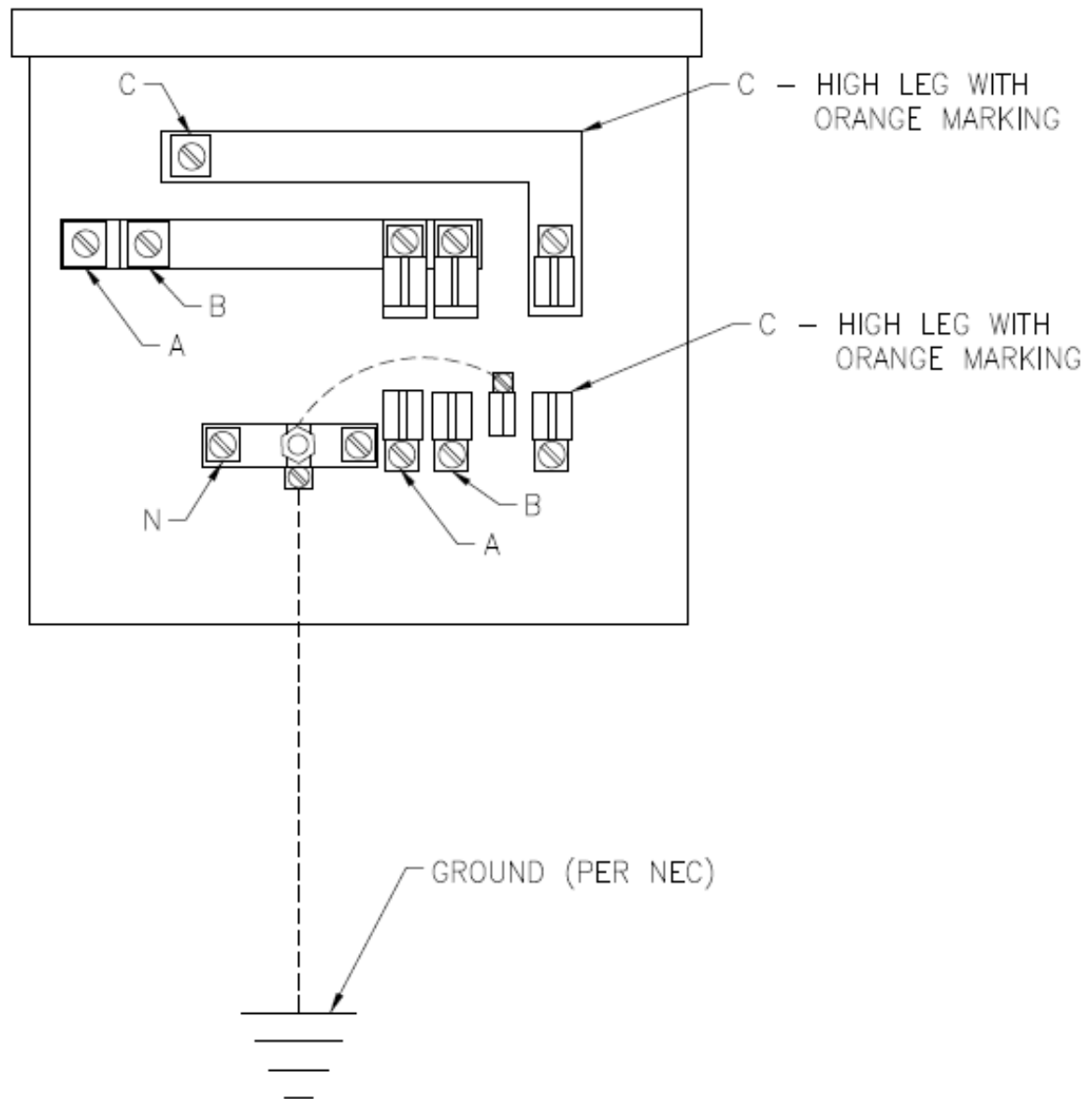
METERING ENCLOSURE & EQUIPMENT STANDARDS

COMBINATION METER SOCKET WITH BREAKER PANEL

EXHIBIT 3

OCALA ELECTRIC UTILITY STANDARDS

120/240V DELTA 3-PHASE METER SOCKET DIAGRAM



REVISED DATE: FEBRUARY 14, 2019

REVISED BY: FRANK BROWN

APPROVED BY: BEAU SPEARS

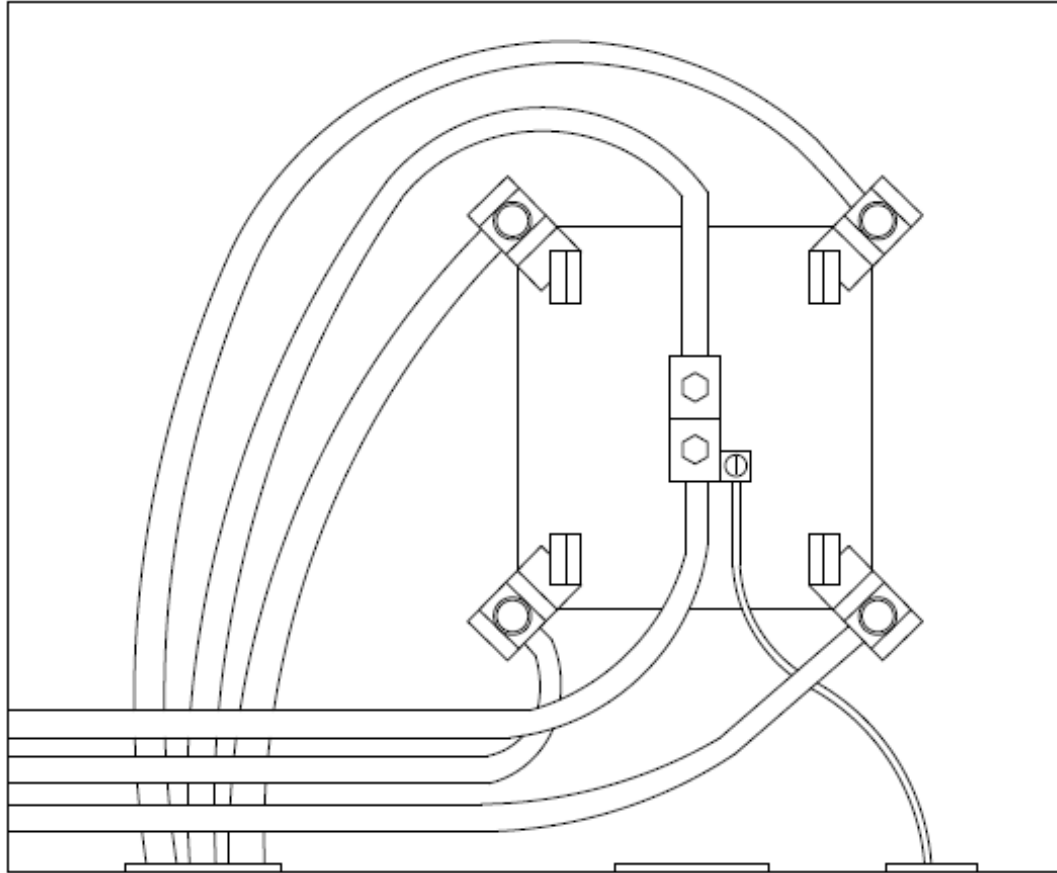
METERING ENCLOSURE & EQUIPMENT STANDARDS

120/240V DELTA 3-PHASE METER SOCKET DIAGRAM

EXHIBIT 4

OCALA ELECTRIC UTILITY STANDARDS

NOT ACCEPTABLE / LINE CROSSING LOAD



NOTES:

1. ON METERING ENCLOSURES WITH AN UNDERGROUND SERVICE ENTRANCE, THE LEFT PORTION OF THE METERING ENCLOSURE SHALL BE RESERVED FOR OEU LINE SIDE CABLES ONLY. THE CUSTOMER'S LOAD SIDE CABLES SHALL NEVER CROSS OVER OEU'S LINE SIDE CABLES.

REVISED DATE: AUGUST 20, 2020

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APPROVED BY: BEAU SPEARS

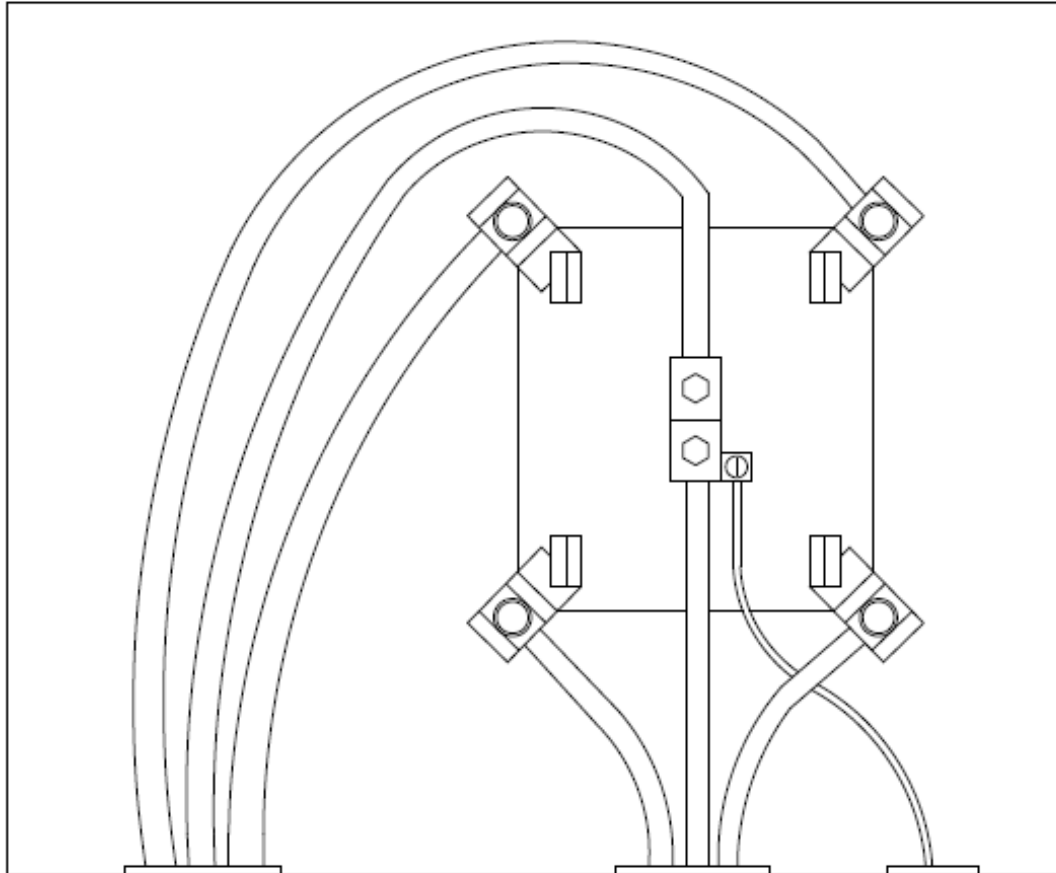
METERING ENCLOSURE & EQUIPMENT STANDARDS

LINE CROSSING LOAD CONDUCTORS

EXHIBIT 5

OCALA ELECTRIC UTILITY STANDARDS

ACCEPTABLE / LINE NOT CROSSING LOAD



NOTES:

1. ON METERING ENCLOSURES WITH AN UNDERGROUND SERVICE ENTRANCE, THE LEFT PORTION OF THE METERING ENCLOSURE SHALL BE RESERVED FOR OEU LINE SIDE CABLES ONLY. THE CUSTOMER'S LOAD SIDE CABLES SHALL NEVER CROSS OVER OEU'S LINE SIDE CABLES.

REVISED DATE: AUGUST 20, 2020

REVISED BY: FRANK BROWN

APPROVED BY: BEAU SPEARS

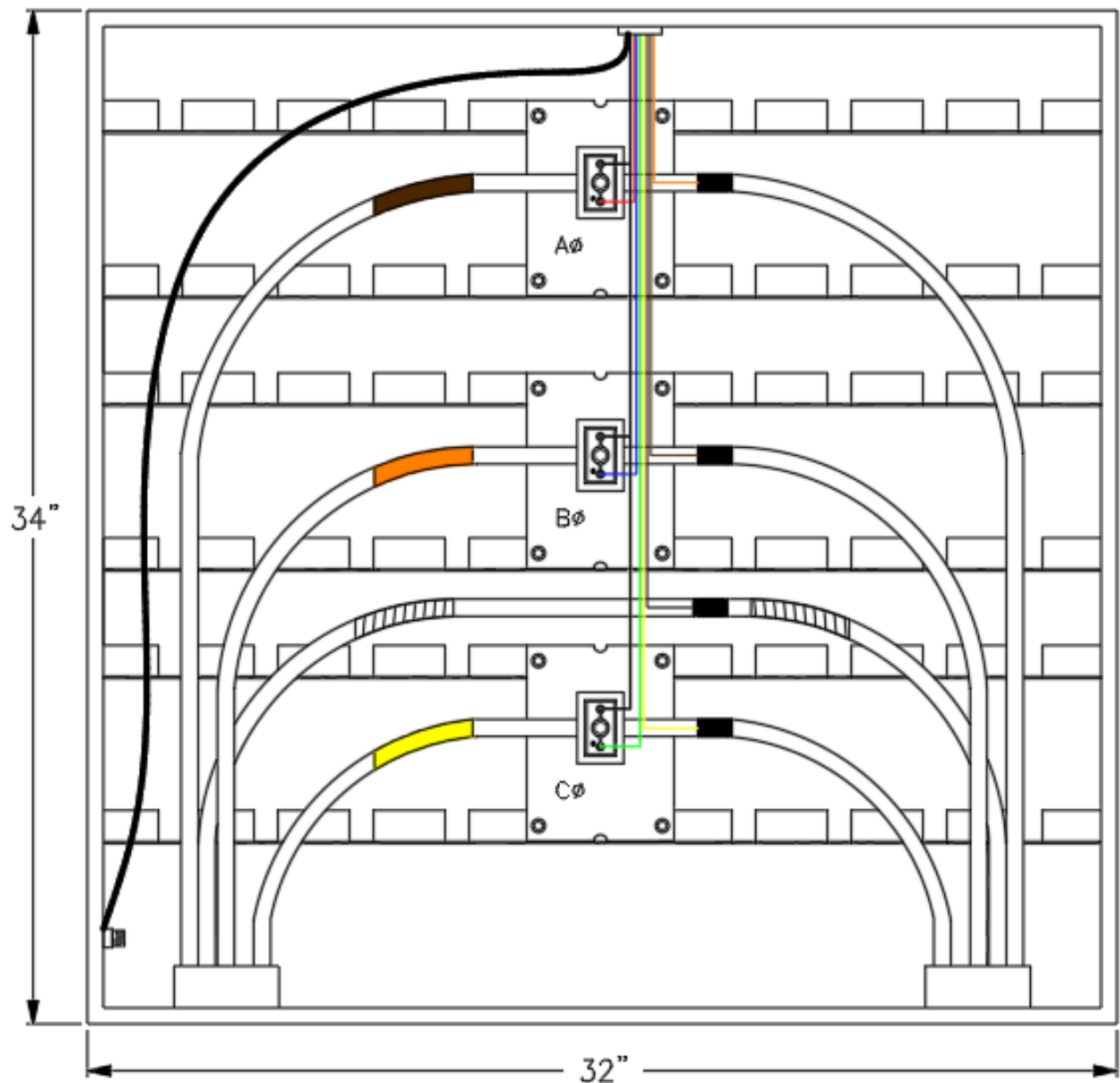
METERING ENCLOSURE & EQUIPMENT STANDARDS

LINE NOT CROSSING LOAD CONDUCTORS

EXHIBIT 6

OCALA ELECTRIC UTILITY STANDARDS

3 ϕ SECONDARY C.T. CABINET WIRING GUIDE



NOTES:

1. CURRENT TRANSFORMERS (CT's) CAN BE MOUNTED VERTICALLY OR HORIZONTALLY.
2. THE DOT ON THE CT's MUST FACE TOWARDS THE SOURCE SIDE (TRANSFORMER).
3. MARK CABLES WITH COLORED TAPE AS FOLLOWS:
A ϕ = BROWN, B ϕ = ORANGE, C ϕ = YELLOW, NEUTRAL = WHITE
4. CABINET TO BE SUPPLIED BY THE CUSTOMER. THE DIMENSIONS OF THE CABINET MUST BE AS FOLLOWS: 34" HEIGHT x 32" WIDTH x 10" DEPTH

REVISED DATE: AUGUST 20, 2020

REVISED BY: FRANK BROWN

APPROVED BY: DEAN SPEARS

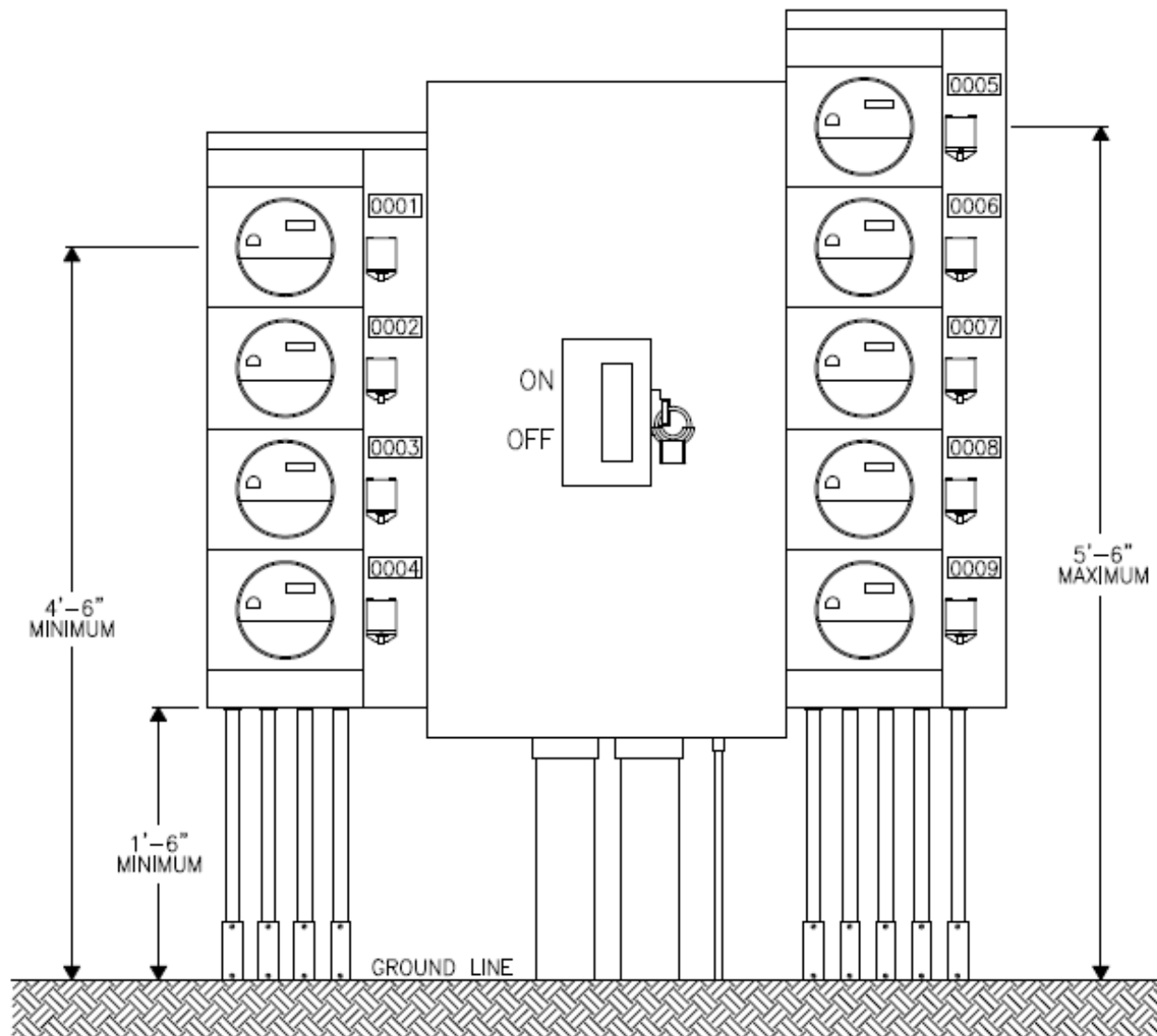
METERING ENCLOSURE & EQUIPMENT STANDARDS

CT CABINET WIRING GUIDE

EXHIBIT 7

OCALA ELECTRIC UTILITY STANDARDS

SIDE OF BUILDING



REVISED DATE: JUNE 1, 2022

REVISED BY: FRANK BROWN

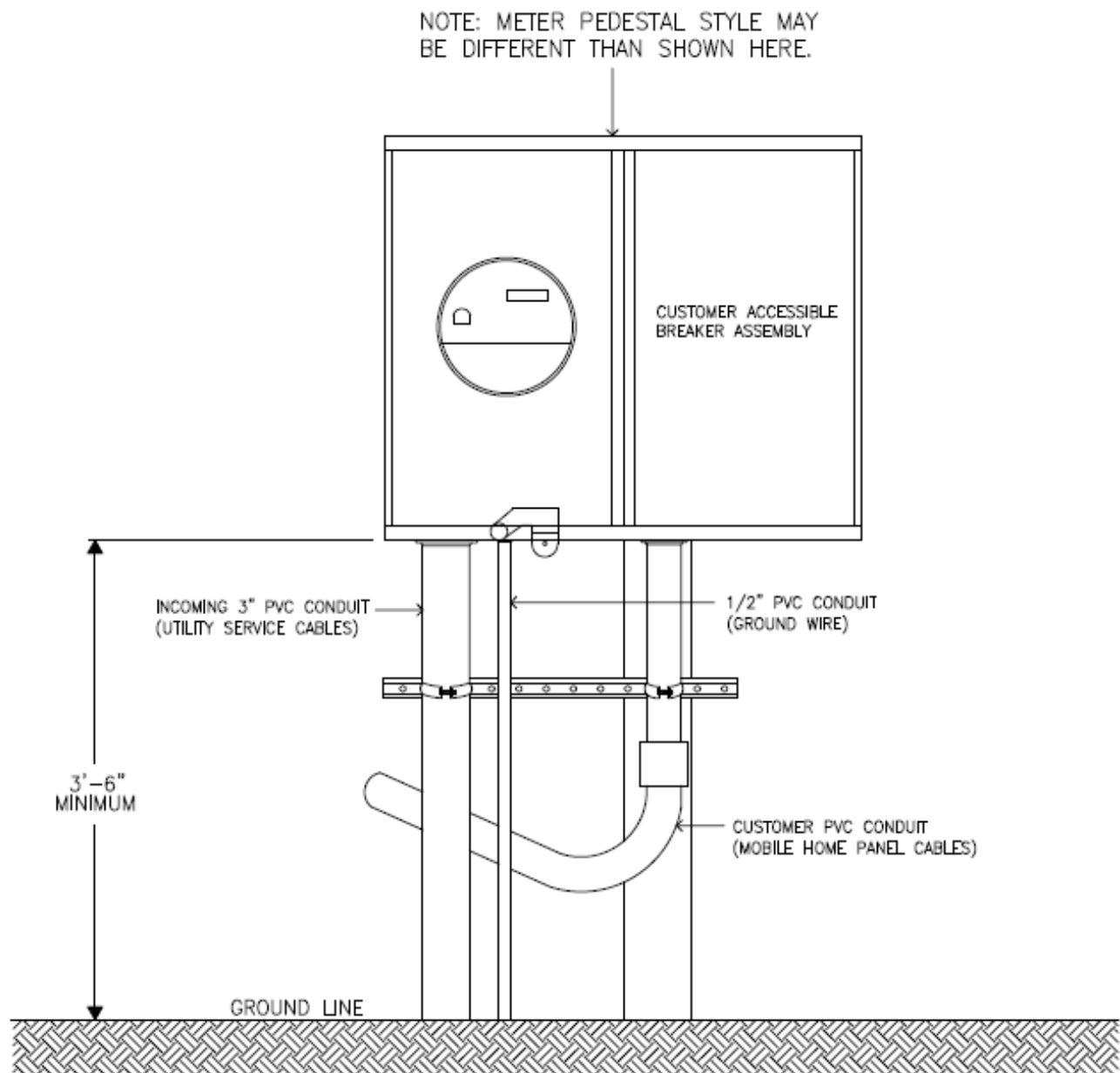
APPROVED BY: BEAU SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

GANG METER INSTALLATION GUIDE

EXHIBIT 8

OCALA ELECTRIC UTILITY STANDARDS



REVISED DATE: JUNE 1, 2022

REVISED BY: FRANK BROWN

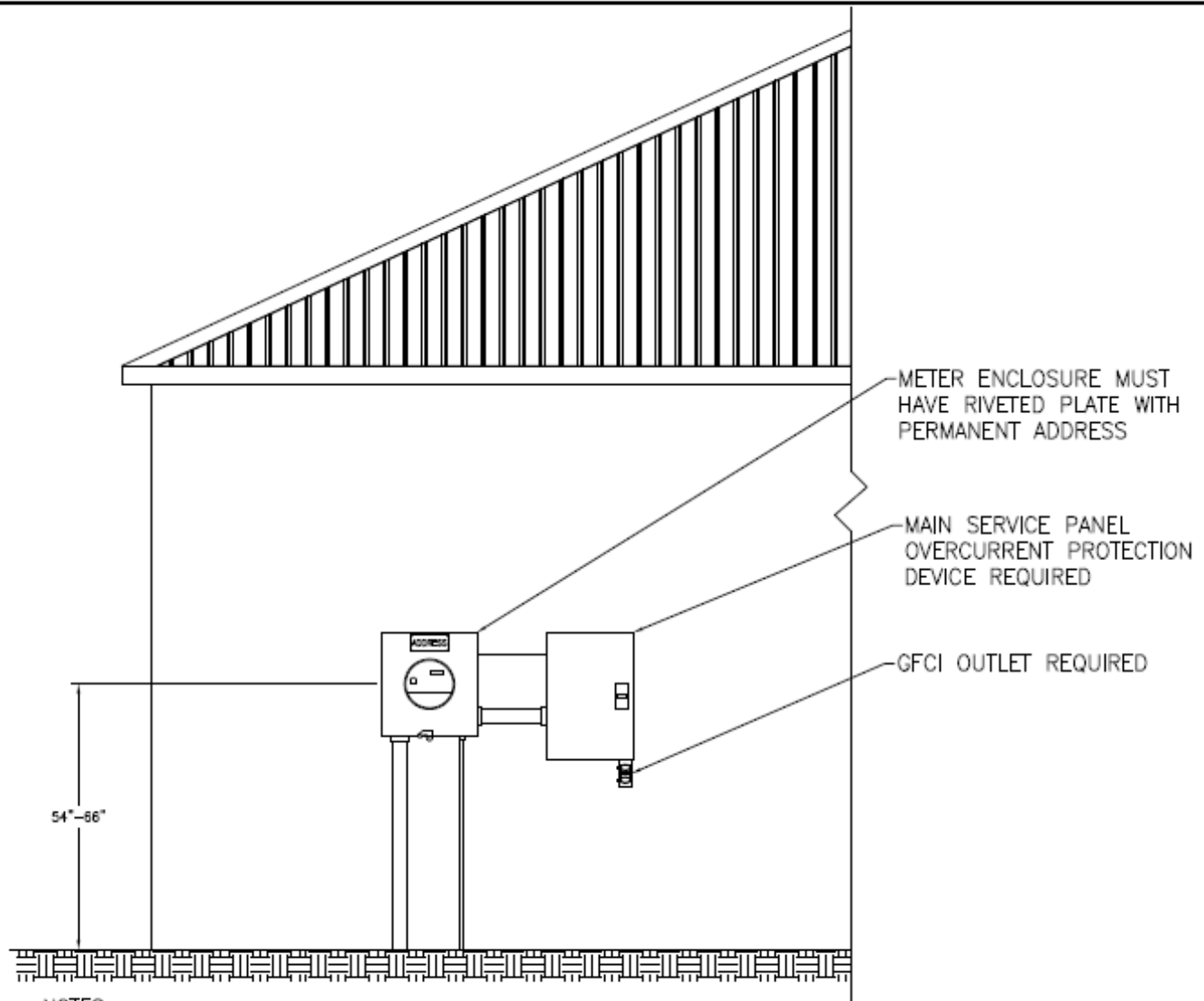
APPROVED BY: BEAU SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

MOBILE HOME METER PEDESTAL GUIDE

EXHIBIT 9

OCALA ELECTRIC UTILITY STANDARDS



NOTES:

- 1.) TUG SERVICES ARE ONLY ALLOWED FOR SINGLE-FAMILY DETACHED HOMES THAT ARE CLASSIFIED AS RESIDENTIAL SINGLE-PHASE UNDERGROUND ELECTRIC SERVICES.
- 2.) TUG SERVICES CANNOT RECESS INTO STUCCO FINISHES. THE PORTION OF THE OUTER BLOCK WALL THAT THE METER ENCLOSURE AND EQUIPMENT IS AFFIXED TO MUST BE FINISHED PRIOR TO INSTALLATION OF THE TUG EQUIPMENT. THE CENTER OF THE METER ENCLOSURE MUST BE 54"-66" MOUNTING HEIGHT.
- 3.) THE METER ENCLOSURE MUST HAVE THE PERMANENT ADDRESS ILLUSTRATED ON A NON-FERROUS METAL OR PLASTIC PLATE THAT IS RIVETED TO THE METER ENCLOSURE. THE PLATE MUST BE A MINIMUM OF 0.75" HEIGHT x 1.5" WIDTH x 0.0625" DEPTH AND THE ENGRAVED OR STAMPED LETTERS MUST BE A MINIMUM OF 0.25" HEIGHT. RED TEXT FONTS AND/OR RED BACKGROUNDS ARE NOT PERMISSIBLE.
- 4.) ONCE THE TUG SERVICE PASSES ALL INSPECTIONS AND A PERMANENT METER IS INSTALLED, NO FURTHER TAMPERING IS PERMITTED WITHIN THE METER ENCLOSURE. IF A METER EQUIPMENT SEAL IS BROKEN BY ANY PERSONS OTHER THAN OEU PERSONNEL, THE CUSTOMER WILL BE RESPONSIBLE FOR ANY FINES THAT MAY BE INCURRED. CONTACT THE OEU METER DIVISION AT (352) 351-6662 IF ACCESS IS REQUIRED.

REVISED DATE: MAY 3, 2023

REVISED BY: FRANK BROWN

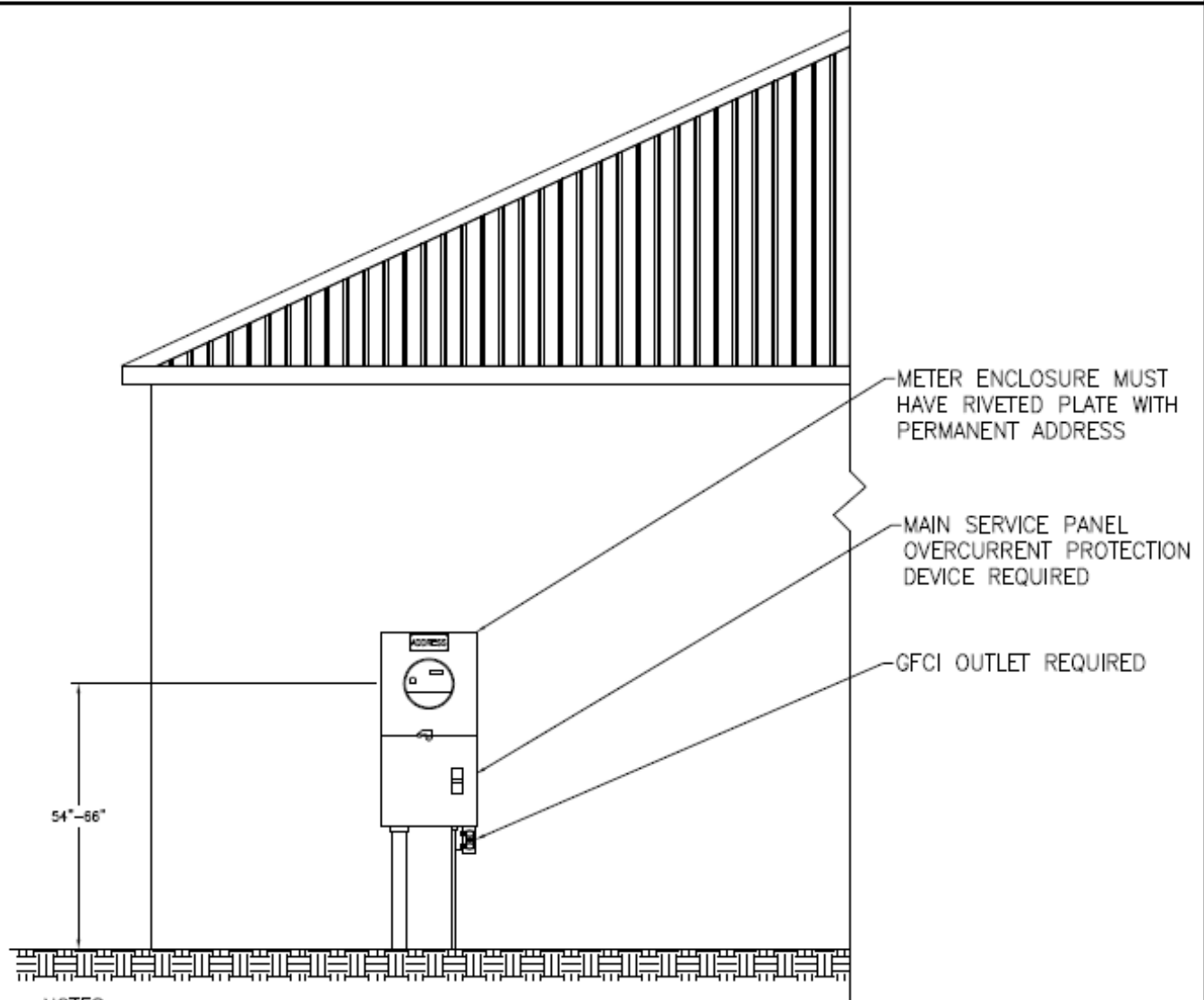
APPROVED BY: BEAU SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

TEMPORARY UNDERGROUND (TUG) SERVICES

EXHIBIT 10

OCALA ELECTRIC UTILITY STANDARDS



NOTES:

- 1.) TUG SERVICES ARE ONLY ALLOWED FOR SINGLE-FAMILY DETACHED HOMES THAT ARE CLASSIFIED AS RESIDENTIAL SINGLE-PHASE UNDERGROUND ELECTRIC SERVICES.
- 2.) TUG SERVICES CANNOT RECESS INTO STUCCO FINISHES. THE PORTION OF THE OUTER BLOCK WALL THAT THE METER ENCLOSURE AND EQUIPMENT IS AFFIXED TO MUST BE FINISHED PRIOR TO INSTALLATION OF THE TUG EQUIPMENT. THE CENTER OF THE METER ENCLOSURE MUST BE 54"-66" MOUNTING HEIGHT.
- 3.) THE METER ENCLOSURE MUST HAVE THE PERMANENT ADDRESS ILLUSTRATED ON A NON-FERROUS METAL OR PLASTIC PLATE THAT IS RIVETED TO THE METER ENCLOSURE. THE PLATE MUST BE A MINIMUM OF 0.75" HEIGHT x 1.5" WIDTH x 0.0625" DEPTH AND THE ENGRAVED OR STAMPED LETTERS MUST BE A MINIMUM OF 0.25" HEIGHT. RED TEXT FONTS AND/OR RED BACKGROUNDS ARE NOT PERMISSIBLE.
- 4.) ONCE THE TUG SERVICE PASSES ALL INSPECTIONS AND A PERMANENT METER IS INSTALLED, NO FURTHER TAMPERING IS PERMITTED WITHIN THE METER ENCLOSURE. IF A METER EQUIPMENT SEAL IS BROKEN BY ANY PERSONS OTHER THAN OEU PERSONNEL, THE CUSTOMER WILL BE RESPONSIBLE FOR ANY FINES THAT MAY BE INCURRED. CONTACT THE OEU METER DIVISION AT (352) 351-6662 IF ACCESS IS REQUIRED.

REVISED DATE: MAY 23, 2023

REVISED BY: FRANK BROWN












APPROVED BY: BEAU SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

TEMPORARY UNDERGROUND (TUG) SERVICES

EXHIBIT 11

OCALA ELECTRIC UTILITY STANDARDS

CONNECTION	COLOR CODE (120/208/240 volt)	COLOR CODE (277/480 volt)
3-Phase Line (L1) 1-Phase Line (L1)		
3-Phase Line (L2) 1-Phase Line (L2)		
3-Phase Line (L3)		
Neutral (N)		
Protective Earth or Ground (PG)	  	

NOTES:

- 1.) ALL COMMERCIAL WIRING FROM THE UTILITY 3-PHASE PADMOUNT TRANSFORMER (OR SECONDARY CABINET) TO THE OWNER'S ELECTRICAL PANEL SHALL BE EITHER COLOR CODED CABLE OR BLACK JACKETED CABLE LABELED WITH COLORED MARKING TAPE PER THE ILLUSTRATION ABOVE. IF BLACK JACKETED CABLE WITH COLORED MARKING TAPE IS USED BY THE ELECTRICAL CONTRACTOR, ALL WIRES MUST BE "RUNG OUT" WITH A CONTINUITY METER AND VERIFIED BY A PROFESSIONAL ENGINEER OR BUILDING CODE INSPECTOR.
- 2.) FOR 3-PHASE, FOUR WIRE 120/208V WYE SERVICES, THE COLOR CODED JACKETED CABLE SHALL BE AS FOLLOWS: L1 = BLACK, L2 = RED, L3 = BLUE, NEUTRAL = WHITE.
- 3.) FOR 3-PHASE, FOUR WIRE 120/240V DELTA SERVICES, THE PHASE WIRE WITH THE HIGHEST VOLTAGE TO GROUND (HIGH LEG) MUST BE PLAINLY IDENTIFIED WITH ORANGE MARKING TAPE. THE HIGH LEG SHALL BE LOCATED ON THE RIGHT OUTSIDE (C-PHASE) POSITION INSIDE THE METER ENCLOSURE. WHEN CURRENT TRANSFORMERS ARE USED, THE HIGH LEG SHALL BE LOCATED ON THE BOTTOM OR RIGHT-HAND SIDE OF THE CURRENT TRANSFORMER ASSEMBLY.
- 4.) FOR 3-PHASE, FOUR WIRE 277/480V WYE SERVICES, THE COLOR CODED JACKETED CABLE SHALL BE AS FOLLOWS: L1 = BROWN, L2 = ORANGE, L3 = YELLOW, NEUTRAL = GRAY OR WHITE.
- 5.) FOR 1-PHASE, 3-WIRE 120/240V OR 120/208V SERVICES, THE COLOR CODED JACKETED CABLE SHALL BE AS FOLLOWS: L1 = BLACK, L2 = RED, NEUTRAL = WHITE.
- 6.) PROTECTIVE EARTH OR GROUND CONDUCTORS THAT ARE JACKETED SHALL BE SOLID GREEN OR GREEN/YELLOW STRIPED CABLES. WHEN APPLICABLE, THE GROUND WIRE CAN BE BARE COPPER.

REVISED DATE: FEBRUARY 15, 2023

REVISED BY: FRANK BROWN

APPROVED BY: BEAU SPEARS

METERING ENCLOSURE & EQUIPMENT STANDARDS

CABLE COLOR CODES

EXHIBIT 12

APPROVALS

Randy Hahn

Engineering Supervisor

02 / 15 / 2024

Date

Beau Spears

AMI Division Supervisor

02 / 15 / 2024

Date

Clint Smith

AMI Division Foreman

02 / 15 / 2024

Date

REVISION HISTORY

Revision Date	Revision Made By	Description of Revision Made
02-15-2024	Frank Brown	Added Exhibits 10-12.
02-15-2024	Frank Brown	Modified document to include acceptable wiring verification methods on Page 6, Multi-Occupancy Dwellings and Structures.
06-23-2022	Frank Brown	Modified document to include explanation of 3-phase transformer phase rotation requirements on Page 2, General Requirements and on Page 5, Transformer-rated Metering Installations.
06-15-2022	Frank Brown	Modified Exhibit 7 to include cabinet dimensions.
06-01-2022	Frank Brown	Added Exhibits 8-9.
05-04-2022	Frank Brown	Format change to entire document.
05-04-2022	Frank Brown	Modified page 4, Transformer-rated Meter Installations.
07-20-2021	Frank Brown	Updated Exhibit 2
04-05-2021	Frank Brown	Updated Exhibit 1
08-28-2020	Frank Brown	Added Exhibit 7 & updated Exhibits 5-6.
03-28-2019	Frank Brown	Added Approval and Revisions Page
03-06-2019	Frank Brown	Minor text changes to page 4, Transformer-rated Meter Installations
03-06-2019	Frank Brown	Minor text changes to page 4, Location of Metering Equipment
03-06-2019	Frank Brown	Modified logo and added page numbers to document
02-13-2019	Frank Brown	Modified page 7, Exhibit 1 (Now Acceptable for UG Installations)
02-13-2019	Frank Brown	Modified page 8, Exhibit 2 (Format and Border Changes Only)
02-13-2019	Frank Brown	Modified page 9, Exhibit 3 (Format and Border Changes Only)
02-13-2019	Frank Brown	Modified page 10, Exhibit 4 (Format and Border Changes Only)
02-13-2019	Frank Brown	Re-formatted document slightly and modified margins for printing
03-02-2017	Byron Hutto	Previous Standards Version accepted by AMI Division