



Georgia Power

BLUEBOOK

FOR
ELECTRICAL SERVICE

2017

Edition

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POLICY STATEMENT

BLUEBOOK FOR ELECTRICAL SERVICE AND METER INSTALLATIONS

This book represents the present policies and objectives of the Georgia Power Company within the revenue metering area. **It is intended to provide guidance only regarding the design and installation of electric services and revenue metering equipment on the Georgia Power Company system.** This book is not intended as a design specification or as an instruction manual. **The accuracy and safety of each installation should be considered on a case by case basis.**

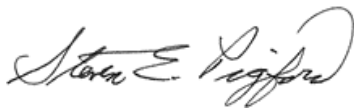
SAFETY TAKES PRECEDENCE OVER ALL OTHER REQUIREMENTS.

Make each job a NO ACCIDENT JOB.

The policies and procedures in this book are generally broad enough to meet our customer's needs, while ensuring prompt service and accurate metering. It is impossible, however, to cover all circumstances that may be encountered in providing electric service to our customers. It is necessary that common sense and good engineering practices be used where specific situations are not addressed by this book, or where customer service is adversely affected by these procedures. **If rules within this document conflict with the Rates, Rules and Regulations filed with the Public Service Commission; the Rates, Rules and Regulations shall take precedence.**

While every effort has been made to ensure that the policies and procedures in this book are up to date at the time of publication, circumstances such as legal considerations, new technology, or changes in Company policy, may require modifications from time to time.

Approved:



Steve E. Pigford

Distribution Ops & Services GM
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Russell L. Mullennix

Metering Services Manager
Metering Services

There may be two or more methods of service from which to choose. **Before selecting a particular method, purchasing, or installing any equipment the Company and the customer should thoroughly discuss the alternatives to be sure the method selected is in the best interest of all concerned.** Open, two-way communication between the Company and our customers is the best way to prevent misunderstandings, delays, and unnecessary expense.

While every effort has been made to ensure that the policies and procedures in this book are up to date at the time of publication, circumstances such as legal considerations, new technology, revisions to the National Electrical Code, National Electrical Safety Code, or changes in Company policy, may require modifications to be made from time to time.

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NOTES

1.0 Definitions

Abandonment: If equipment is abandoned, a mutual agreement shall be reached between the **Customer** and the **Company** relinquishing ownership of this equipment to the **Customer**. The **Customer** shall agree to accept ownership and responsibility for any abandoned equipment.

Bi-Directional: Using **Customer's** Generation to offset kwh's purchased from Georgia Power and deliver and sell excess kwh's to Georgia Power.

Approved: Acceptable to a qualified Georgia Power Company employee.

Company: Georgia Power Company.

Customer: The corporation, municipality, governmental agency, association, partnership or individual using or planning to use electric service supplied by the **Company** or the architect, engineer or electrical contractor acting as the **Customer's** agent.

Fifth Terminal Meter Jaw: The extra jaw that shall be installed in a single phase meter socket to allow metering 120/208V services. This fifth terminal meter jaw shall be located in the 6 or 9 o'clock position. This fifth terminal is available for Company issued meter sockets. **It must be provided by the Electrician for Customer owned meter sockets or multi-position meter centers.**

Final Grade Level: Ground levels after all construction and landscaping procedures have been completed.

Fire Pump Service: The service dedicated to fire pump equipment.

Grounded Conductor: A system or circuit conductor that is intentionally grounded.

Grounding Electrode Conductor: A conductor used to connect equipment or the grounded conductor (neutral) of a wiring system to a grounding electrode.

Grounding Conductor, Equipment: The conductor used to connect non-current carrying metal parts of equipment, raceways and other enclosures to the system grounded conductor and/or the grounding electrode conductor at the service equipment.

Isolated: Not readily accessible to persons unless special means for access are used.

Joint Agreement: The understanding of two or more parties having the same consent, vision and commitment for solution of a particular situation or circumstance.

Line Side: The top of any meter sockets used on GPC system.

Load Side: The bottom of any meter sockets used on GPC system.

Listed: Equipment or materials included in a list published by an organization acceptable to the authority having jurisdiction and concerned with product evaluation that maintains periodic inspection of production of listed equipment or material meets appropriate standards or has been tested and found suitable for use in a specified manner.

Manufactured Home: A single or multi-sectional structure built on a permanent chassis on or after June 15, 1976. Since it is built on a permanent chassis, it is considered re-locatable.

Master Meter: Company supplies electricity for entire load for the **Customer** through one metering point.

Metal Anchor: Metal device designed by manufacturer to mount equipment to masonry or concrete. Plastic anchors are not permitted.

Mobile Home: A single or multi-sectional structure built on a permanent chassis prior to June 15, 1976. Since it is built on a permanent chassis, it is considered re-locatable.

Modular Home: A structure consisting of sections built at a factory then transported and assembled at the permanent location. This structure is not considered re-locatable since it is not built on a permanent chassis.

Permanent Marking: Permanent letters or numbers in enamel paint at least 1 inch in height using a contrasting color. Permanent plastic or metal labels are acceptable, at least 1 inch in height. **Permanent Ink Markers, such as Sharpies, are not acceptable.**

Primary Voltage: A voltage magnitude of more than 600 volts phase to phase or phase to ground.

NEC: National Electrical Code.

NESC: National Electrical Safety Code.

Qualified Employee: A Georgia Power Company employee responsible for company safety, regulations, construction, application and operation of the equipment involved.

Readily Accessible: Capable of being reached easily without requiring tools or the removal of obstacles.

Secondary Voltage: A voltage magnitude of 600 volts or less, phase to phase.

Service: The conductors and equipment for delivering energy from the electricity supply system to the wiring system of the premises served.

Service Drop: The overhead service conductors from the last pole or other aerial support to and including the splices, if any, connecting to the service entrance conductors at the building or other structure.

Service Entrance Conductors - Overhead System: The service conductors between the terminals of the service equipment and a point usually outside the building, clear of building walls, where joined by tap or splice to the service drop.

Service Entrance Conductor - Underground System: The service conductors between the terminals of the service equipment and the point of connection to the service lateral.

Service Equipment: The necessary equipment, usually consisting of a circuit breaker or switch and fuses, and their accessories located near the point of entrance of supply conductors to a building or other structure or an otherwise defined area intended to constitute the main control and a means of disconnecting the supply.

Service Lateral: The underground service conductors between the street main, including any risers at a pole or other structure from transformers, and the first point of connection to the service entrance conductors in a terminal box, meter socket or other enclosure with adequate space, inside or outside the building wall. Where there is no terminal box, meter socket or other enclosure with adequate space, the point of connection shall be considered the point of entrance of the service conductor into the building.

Service Point: The point of connection between the Company's facilities and the Customer's facilities.

Single Directional: Delivering and selling 100% of generation to Georgia Power through an approved program.

Solidly Grounded System: System that has at least one conductor or point intentionally grounded.

Structurally Solid Enclosures: An enclosure constructed of materials that allow no access or penetration of foreign objects from any direction or intrusion except through an approved entry point. Material types may vary but will always be sound, firm and well-constructed, not affected by weathering, water or high heat exposure. Examples are concrete, masonry, and steel.

Sub-Metering: The metering of individual loads within a facility for billing or load control purposes. For billing applications, usually the facility is metered by a master meter and the property owner desires to meter and charge individual tenants for their portion of the electricity consumed. This equipment is **Customer** owned and maintained.

Temporary Service: Defined as service where the **Company** is only required to provide a service drop and a meter socket to construction jobs, fairs, carnivals, fruit stands, Christmas tree stands, and to similar locations and structures where such service is required for a specified time usually twelve (12) months or less.

NOTES

2.0 General Information

A. Application for Service, Availability and Classification of Service:

1. When contacting the **Company** regarding new service, be prepared to provide any and all information related to phase requirements, voltage, loading, etc., including any information on special requirements.
2. Application for service can be made at any local office or through the **Builders Line**. The application should be made well in advance of the required service date. A list of the **Company's** local offices can be found at the following link:

[Customer Service Locations](#)

OR

www.georgiapower.com/builders

3. The **Company** shall connect only one service drop or service lateral to a building or structure for each class of service, except as permitted by the National Electrical Code. For the purpose of this rule, a communication tower shall be treated as a single structure. Refer to [Section 3.4.H](#) for additional information.
4. Only one watt-hour meter shall be installed per **Customer** per class of service except as explained in [Section 2.A.3](#) above. **IN NO CASE SHALL METER READINGS OF TWO OR MORE WATT-HOUR METERS BE COMBINED FOR BILLING PURPOSES.**
5. Installations that qualify to be placed on an unmetered rate shall have a meter socket equipped with a bypass handle, NEMA Type 4 enclosure, or enclosure approved by the Customer Field Service Supervisor. A lockable disconnect shall be installed on the **load side** of the meter socket or enclosure.
6. Services that require metering shall have control relaying installed on the **load side** of the metering equipment.

2.1 Connections between Company and Customer

Final connections at the service point shall be made by the **Company**. **Customer** owned devices shall not be installed between the service point and **Customer's** meter socket. The electric service and metering equipment are designed to serve the **Customer's** load as it exists when connected to the **Company's** distribution system. **The Company will not accept more than one conductor under one pressure device.**

2.2 Inspections

- A. In areas where electrical inspection is provided, the Public Service Commission requires that all wiring and equipment in or upon the premises of the **Customer** to the point of the service connection shall have the approval of an inspector from the constituted authority (cities and counties, for example) prior to connecting the **Customer** service to the **Company's** system. Also, the Service Regulations of the **Company** on file with the Georgia Public Service Commission shall be met.

- B. For Customers that may be exempt from the local inspecting authority, such as some federal, state, and local governmental agencies or self-inspecting entities, or in areas where an electrical inspector does not exist; a letter should be obtained from an individual or entity qualified to make the statement that all wiring has been completed according to the National Electrical Code (NEC) before service is connected.
- C. Regardless of whether a city or county employs inspectors, the **Company**, through a qualified employee, has the right to make the final determination about connecting the service. The **Company** shall not connect any service where an unsafe condition is observed. The **Customer** shall be notified of the unsafe condition and service will be provided when corrected by the **Customer**.

3.0 Bonding & Grounding of Meter Equipment

The **Customer** shall install a grounding electrode system and bond service equipment in accordance with the National Electrical Code (NEC) and local codes before requesting the **Company** to energize the service. Failure to comply with the appropriate codes may result in personal injury or damage to property.

A. Solidly Grounded Systems

1. Bonding **Supply-Side** Metering Equipment:

- (a) Non-current carrying metal parts of metering equipment shall be bonded to the service grounded (neutral) conductor in a manner that establishes an effective ground-fault current path.
- (b) In all cases where the metering equipment is on the **supply-side** of the service disconnect, the metal enclosure shall be bonded to the grounded (**neutral**) conductor within the enclosure.
- (c) No additional equipment grounding conductors (bond wires) or bonding jumpers are required, nor allowed to effectively bond the metal meter enclosure to adjacent service entrance equipment.
- (d) **Company** personnel are responsible for bonding current transformer cabinets and transformer rated sockets.

2. Bonding **Load-Side** Metering Equipment:

- (a) To prevent parallel neutral paths, metering equipment shall not be simultaneously bonded to the grounded (neutral) conductor and the **Customer's** equipment grounding conductor (bond wire).
- (b) Where metering equipment is located on the **load-side** of a service disconnect that does not have equipment ground-fault protection and where the metering equipment is located within 30 feet of the service disconnect, the meter enclosure shall be bonded to the grounded (neutral) conductor within the enclosure.
- (c) Where metering equipment is located on the **load-side** of equipment ground-fault protection or where **load-side** metering equipment is **not** located within 30 feet of the service disconnect, it shall be the responsibility of the **Customer** to coordinate a joint agreement between the AHJ (Authority Having Jurisdiction) and the **Company** for the proper isolation of the equipment grounding conductor and the service grounded (neutral) conductor within the meter enclosure.
- (d) The **Customer** shall be responsible for bonding all non-current carrying metal equipment, located on the **load-side** of the metering equipment.

3. Grounding of Meter Equipment:

- (a) To facilitate meeting NEC grounding requirements, the **Company** will allow a single grounding electrode conductor to be terminated in a self-contained meter socket or a transocket where a factory installed grounding connector is attached to the neutral bus.

- (b) The grounding electrode conductor shall be routed directly to the grounding electrode without passing through any other enclosure.
- (c) The meter enclosure shall not be used as a junction point for bonding together different components of the **Customer's** grounding electrode system.

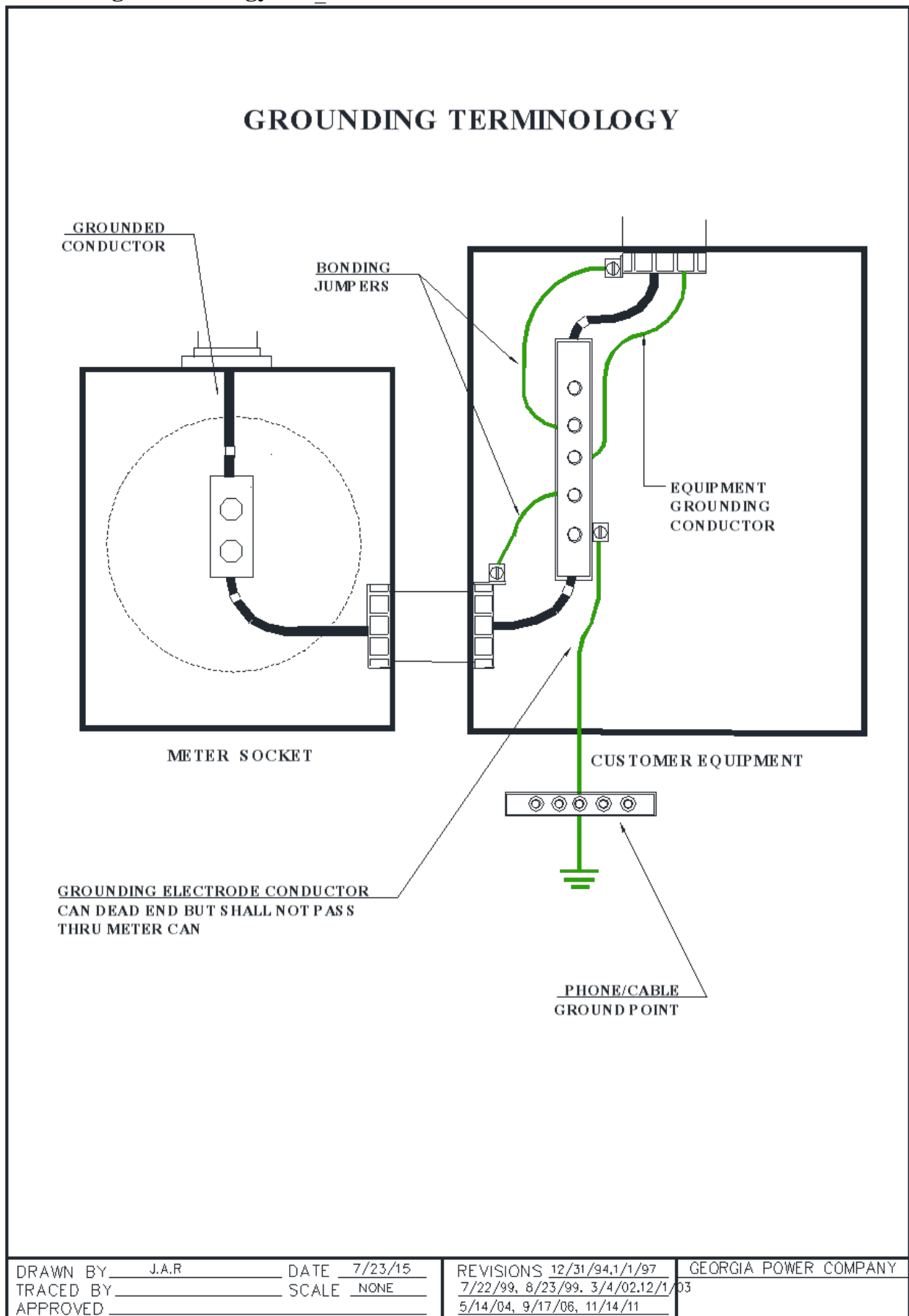
4. External Ground Wires Attached to Meter Equipment:

- (a) **Company** metering equipment shall not be used as a point of grounding by the **Customer** or other utilities. Ground wires for cable TV, antennas, phone equipment, etc., shall not be connected to metering sockets, metering cabinets, and metal conduits housing meter control cable.
- (b) Any ground wire as described in [Section 3.4.A](#) that interferes with **Company** personnel accessing the meter or that creates a hazard for **Company** personnel, will be subject to removal.

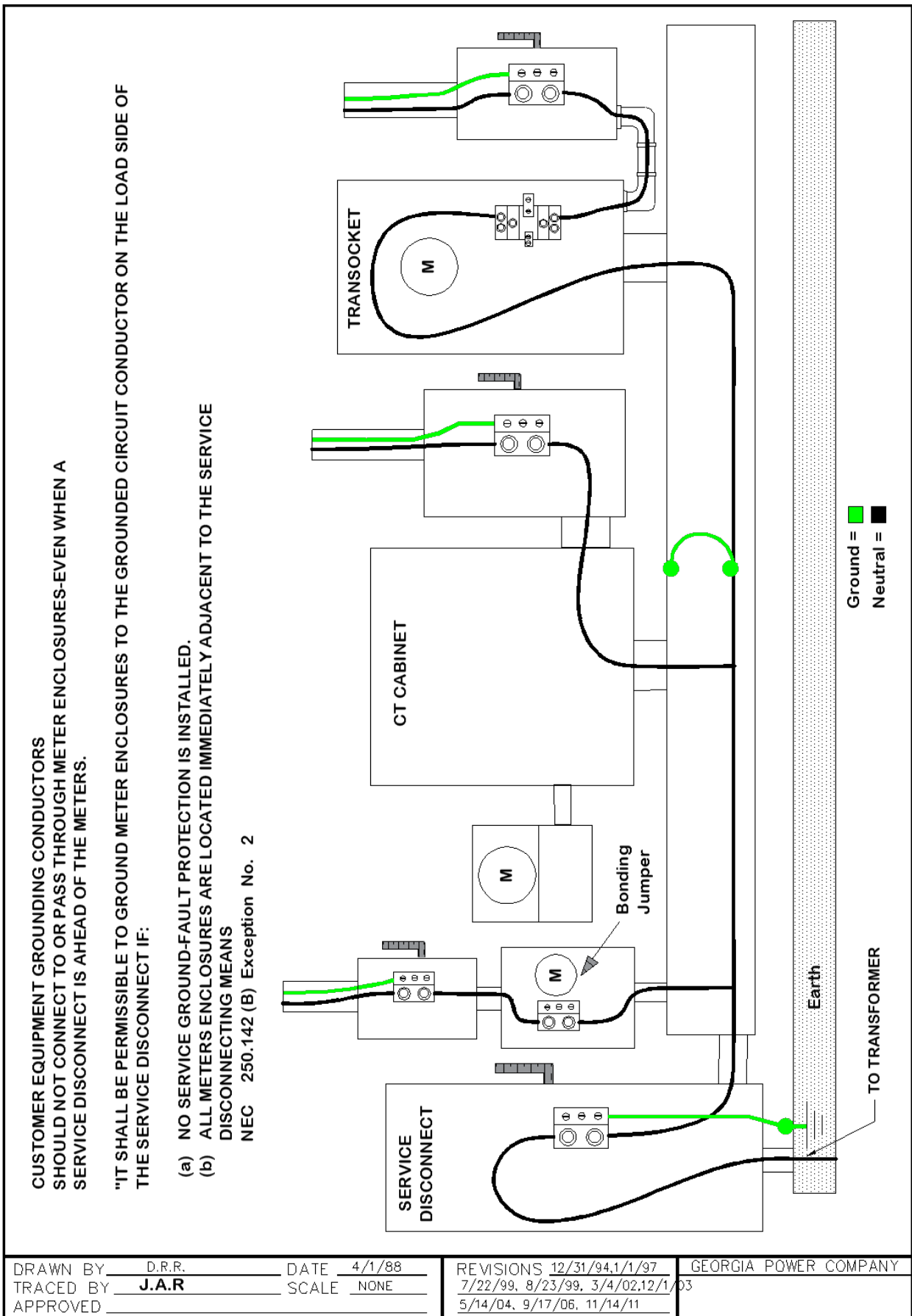
B. Ungrounded Systems:

- 1. All ungrounded systems shall be metered with the use of instrument transformers provided by the **Company**.
- 2. **Company** issued transockets intended for use on a 3-wire ungrounded service are equipped with a removable bonding strap. The bonding strap shall be removed so that the service common phase conductor will be isolated from the socket enclosure.
- 3. All metering equipment shall be grounded to a driven grounding electrode, provided and installed by the **Customer**.

3.1 Grounding Terminology



3.2 Customer Equipment Grounding (Within 30' of Disconnect)



3.3 Services at Secondary Distribution Voltages

A. Overhead Services:

1. The service type should be confirmed prior to construction.
2. The location of the service attachment point shall be determined by agreement with a representative of the **Company**. The **Customer** shall provide suitable means of supporting service wires to the building which will provide clearances as required shown in [Section 4.1](#) (Service Clearances) and provided by Part II of the National Electric Safety Code.
3. When necessary to install a service mast to obtain the clearance required, the mast shall not be less than 2 inch trade size rigid metal conduit. A service mast exceeding 3 feet in height above the roof or last means of support shall be adequately guyed to withstand the strain imposed by the service drop. See [Section 4.1](#) for clearance requirements for a service drop attached to a mast. Service mast shall be surface mounted on exterior wall. At the point that the service mast conduit passes upward through a roof overhang, at its soffit or through any enclosed fascia area, the service mast conduit shall be one continuous section, with no conduit couplings. **No conduit coupling shall be a part of the service mast conduit at any point above the roofline of the building.**
4. The **Company** will furnish hardware necessary for attaching the service drop to a building. The **Customer** is responsible for installing the hardware in a secure manner.
5. Service entrance conductors connected to the **Company's** service drop shall comply with the National Electric Code (NEC), unless the inspection authority having jurisdiction has granted an exception.
6. Conductors carrying unmetered energy shall not be contained in the same raceway, trough, or conduit with conductors carrying metered energy.
7. **Customer's** service entrance conductors shall extend not less than 3 feet out of weatherhead.
8. For safety reasons, the grounded conductor of service entrance conductors shall be clearly marked unless it is white, gray, or bare.
9. For proper metering of a 4-Wire, 3-Phase delta service, the phase having the highest voltage to ground (high leg) must be in the right hand or "C" phase position in the meter socket. To ensure proper connections, the (high leg) shall be clearly marked at the weatherhead.

B. Underground Services:

1. The service type should be confirmed prior to construction.
2. Due to space limitations, the number of runs of **Customer** owned underground service cables in a 3-Phase padmount transformer shall be agreed upon between the **Customer** and a qualified **Company** employee prior to installation.
3. Metering equipment shall be located outside. Inside locations shall be approved by a Metering Services Field Supervisor.

4. **Company** owned service laterals may be terminated in factory assembled metering centers owned by the **Customer**. Metering centers shall be equipped with connectors satisfactory to the **Company** for termination. Adequate wireway space shall be provided for these laterals. See [Section 9.3](#), [Section 11.31](#), and [Section 11.6](#).
5. If metering a padmount transformer, it shall be considered dedicated and can only serve one **Customer**. Any other arrangement must be approved by an Metering Services Supervisor. Meter sockets shall be mounted on **Company** supplied meter pedestal, **Company** approved structure or the **Customer's** building. Instrument transformers shall not be installed in single phase padmount transformers. No bonding/equipment ground wire shall be installed from the **Customer's** service equipment to the **Company's** transformer.

C. For multi-level residential premises the following will apply:

1. The preferred method is for **Company** owned metering equipment to be located at ground floor level for all residential units.
2. On high-rise installations (as defined by the NEC), **Company** owned metering equipment may be located on more than one level (as approved by the local Metering Services Field Supervisor).
 - (a) All metering equipment installations and locations shall satisfy the requirements as described in [Section 3.3](#) and [Section 3.4](#) and of the **Company's** "BlueBook for Electrical Service and Metering Installations".
 - (b) If a fire pump is required by local authority, a separate fire pump meter shall be installed as described in [Section 3.4.1](#).
 - (c) Riser diagrams shall be provided to the local Metering Services Field Supervisor and Engineering before construction begins.
 - (d) If the property owner desires to meter and charge individual tenants for their portion of electricity consumed, (see Sub-Metering in Definitions Section) an alternate method (as approved by the local Metering Services Field Supervisor) is for one "master" meter to be installed in a switch gear, current transformer cabinet or at an underground padmount transformer as described in [Section 3.3](#) and [Section 3.4](#). The individual tenant metering equipment shall be **Customer** owned and maintained.

D. In cases where service voltage is 277/480V or higher, the **Company** will meter at the service voltage only (first transformation point).

1. The **Customer** has the option to sub-meter beyond any step-down transformer(s) with **Customer** owned and **Customer** maintained sub-metering equipment.

3.4 Metering Installations at Secondary Distribution Voltages

A. General:

1. The **Company** shall furnish, install, test and maintain metering equipment to accurately measure the **Customer's** use of electric energy.

2. Metering **equipment** (meter sockets, meter cabinets, etc.) furnished by the **Company** to be installed by the **Customer** will be supplied in good operating condition. This equipment is the property of the **Company** and shall be used for metering the **Company's** customers. The **Company** owned equipment shall not be altered or modified. **The Company will not accept more than one conductor under one pressure device.** Abandoned equipment shall become the responsibility of the **Customer**.
3. **Company** owned meter sockets or metering cabinets shall not be used as junction boxes for the connection of branch circuits, feeder conductors or the connection of subsets of service conductors supplying separate service locations for the same or different premises. This does not apply if the equipment has been abandoned by the **Company**.

NOTICE: ALL GPC ISSUED METERING EQUIPMENT MUST BE USED TO METER GPC CUSTOMER LOCATIONS ONLY. IF THE ADDRESS LISTED IS NOT A GPC CUSTOMER OR IF THE EQUIPMENT IS NOT USED AT THE ADDRESS LISTED THE CONTRACTOR/PERSON RECEIVING EQUIPMENT WILL BE RESPONSIBLE FOR RETURNING THE UNUSED EQUIPMENT. IF MISUSE OF GPC EQUIPMENT IS DETERMINED THE ELECTRICAL CONTRACTOR RECEIVING EQUIPMENT WILL BE RESPONSIBLE FOR ALL ASSOCIATED GPC LABOR AND MATERIAL COST.

4. Connections to all meters, instrument transformers and other equipment affecting the accuracy of these devices shall be made by a qualified **Company** employee.

B. Mounting and Labeling of Meter Sockets and Metering Cabinets:

1. Meter sockets, metering cabinets and conduit straps shall be installed with:
 - (a) Metal anchors - brick or solid concrete.
 - (b) Toggle bolts - other masonry siding.
 - (c) Wood screws - solid wood.
 - (d) All mounting hardware shall be ¼ inch (minimum) stainless steel.
 - (e) Minimum of (4) fasteners shall be used to install any socket or cabinet unless specifically stated otherwise.
 - (f) Conduit Straps: Conduit must be securely fastened to the wall within 12 inches of the meter socket and 6 inches of final grade level. Conduit straps shall be fastened to walls with the same type fasteners as meter sockets. Refer to [Section 4.2](#).

C. Metering Equipment Locations:

1. Metering equipment shall be located outdoors. For indoor installations, written consent shall be obtained from the local Metering Services Field Supervisor.

2. Metering equipment for secondary voltages shall not be located on utility owned poles. For pole type installation, the equipment shall be installed on **Customer** owned pole or a free standing structure adjacent to the utility pole.
3. Metering equipment shall be located where it is **readily accessible** to **Company** employees. If metering equipment is to be located behind a locked door, the lock shall be keyed for a Georgia Power Meter Room key.
4. Single position and duplex meter sockets shall be located so the center of the meter shall not be higher than 5 feet 6 inches or lower than 3 feet 6 inches, above final grade level.
5. Multi position meter centers shall be located so the center of the upper most meter shall not exceed 5 feet 6 inches above final grade level, and the center of the lowest meter shall be not less than 3 feet 6 inches above final grade level.
6. Safety dictates metering equipment shall be located so **Company** personnel are provided level, unobstructed working space. This working space shall extend a minimum distance of 3 feet in front and 18 inches to either side of the equipment, and a height of 7 feet from final grade level.
7. A clearance of at least 6 feet shall be provided from machinery or devices having moving parts that are not physically isolated.
8. Where written consent is obtained to locate metering equipment indoors, adequate lighting shall be provided to allow safe installation, maintenance and testing. One light per 8 feet of wall space or portion thereof.
9. Metering equipment shall not be installed in a room, closet or any enclosed space with gas meters or appliances.
10. If necessary to locate metering equipment adjacent to a driveway, walkway, parking lot or any location that will subject the meter to damage, written consent shall be obtained from a qualified **Company** employee who will have the option to require the **Customer** to furnish and install protective barriers.

D. General Requirements including **Customer** Furnished Sockets, Single Position, Multi Position and Combination Units (1-Phase & 3-Phase):

1. If a **Customer** chooses to use meter sockets not furnished by the **Company**, he shall notify the **Company** well in advance of required service date.
2. **Customer** purchased equipment shall be UL listed. The label, symbol or other identifying mark used by the testing laboratory shall be affixed to the unit.
3. All **Customer** and **Company** furnished sockets shall be a ringless type.
4. Each meter position's cover shall be removable without having to remove any other cover(s).
5. Each meter position shall have a lockable **load side** disconnect for the **Company's** use.
6. All meter spade jaws on residential **Customer** owned sockets shall be spring reinforced and rated at no less than 200 amps.

7. All Class 320 meter sockets and all sockets used on commercial applications shall have a lever by-pass handle.
8. If the **Customer** furnishes multi-position meter centers and the supply source is 120/208V Wye service, the **Customer** shall furnish and install a grounded **Fifth Terminal Meter Jaw** mounted in the 6 o'clock or 9 o'clock position in each meter socket.
9. If meter sockets are installed one above the other, a minimum 2 inches space shall be maintained between any two units.
10. Conduit for underground service laterals shall extend vertically downward 2 feet below final grade level and conduit ends shall be equipped with a bushing to protect the conductors. The **Customer** shall extend the conduit below or beyond the concrete footing to provide a minimum 6 inches clearance between the concrete and the conduit end.
11. Conduit must be securely fastened to the wall within 12 inches of the meter socket and 6 inches of final grade level. Conduit straps shall be fastened to walls with the same type fasteners as meter sockets.
12. Safety dictates all meter positions shall be properly covered before the unit is energized.
13. Where service is 277/480V, a **load side** disconnect shall be installed immediately adjacent to meter socket. The disconnect shall be rated not less than the load to be carried and must have an interrupting rating at system voltage sufficient for the current that must be interrupted. The disconnect shall accept a **Company** lock in the off position
14. Point of Connection Requirements:
 - (a) Single position, multi position, combination units, and **Customer** owned meter sockets shall be constructed so the dedicated **line side** wiring compartment is separate from breakers, disconnects and compartments housing service equipment or meter sockets and is accessible without having to remove any meter(s).
 - (b) **Company** owned **service laterals** may be terminated in factory assembled metering centers owned by the **Customer**. Adequate wire way space shall be provided for these laterals.
 - (c) **Line side** connectors of meter socket assemblies connected to **Company service laterals** shall be of a type satisfactory to the **Company**.
 - (d) **Line side** service termination facilities shall be designed to meet the NEMA spaced stud requirements shown in [Section 11.7](#). Installations above 1600 amps shall require approval by a **Company** engineer.
 - (e) Any exposed buss work or connections must have a protective barrier.

E. Metering Installations Greater Than 225 Amperes and Less Than 400 Amperes:

1. On Single Phase service: Where the service ampacity rating is greater than 225 amperes, but not over 400 amperes, a self-contained class 320 ampere meter socket furnished by the **Company** shall be used on 1-Phase 120/240 or 120/208 volt service. When the service ampacity rating is

greater than 400 amperes, but not exceeding 600 amperes, the preferred method of metering is a transocket.

F. Metering Installations In **Mobile Home** Parks:

1. Overhead Installations:

- (a) The metering pole must be of sufficient height to provide service drop clearances as shown in [Section 4.3](#) and [Section 10.3](#).
- (b) The **Company's** preferred method for multi-position metering is to furnish the meter sockets. If a **Customer** purchases meter socket assemblies, the **Customer** shall be solely responsible for all maintenance.
- (c) The **mobile home** feeder assembly shall terminate at the mobile home service equipment located adjacent to the mobile home. The feeder assembly shall not terminate in the meter socket.
- (d) The grounded conductor (neutral) and grounding conductor shall be bonded together at the service equipment according to the National Electrical Code.

2. Underground Installations:

- (a) Mobile homes served by underground distribution must provide meter pedestals for the connection of **service laterals** and watt-hour meters. Refer to [Section 9.3](#).
- (b) A separate meter shall serve each **mobile home**.
- (c) **Meter pedestals must be manufactured by an approved manufacturer.** Meter pedestals must be approved by the **Company** before the meter pedestals are installed. The **Company** does not assume ownership of meter pedestals and is not responsible for maintenance.
- (d) Grounding should be in compliance with the National Electric Code (NEC) and applicable state or local codes.
- (e) Service equipment and metering socket may be installed on a (manufactured) home, provided it is installed to the requirements of National Electric Code (NEC).

G. Town Home Meter Installation, (**Two options are allowed**):

1. Gang Metering and **Customer** Owned Meter Centers:

- (a) Ganged meter sockets and **Customer** owned meter centers shall be mounted on the side of the building, on a pedestal just off the building, or in a kiosk. **Customer** conduit and conductors (either feeder conductors or service-entrance conductors, underground system) to each townhouse panel board shall be installed according the National Electrical Code (NEC).
- (b) Developer will file a private easement with the county for the **Customer** owned conduit and service cable and conductors before construction will begin where applicable. This easement shall also include permission to install any **Customer** owned service equipment or any associated gang metering equipment, especially if this electrical equipment is mounted directly

on the building wall. If not mounted on the building, the metering equipment shall be mounted on a durable structure consisting of 6 inches galvanized channel iron or masonry substance of similar strength located in a common space of the association.

2. Service in the Front:

- (a) Individual meter sockets shall be mounted on the front of each of the dwellings for service. Any installation shall be approved before the project begins by a local qualified **Company** employee.
- (b) Unrestricted access to metering equipment and service conductors is required.

H. Communication Tower Meter Installations:

- 1. A minimum of one, six position gang meter socket, shall be provided on all new communication tower services. A qualified **Company** employee will determine location for this initial installation.
- 2. A qualified **Company** employee shall determine the metering requirements for additional service(s) to existing communication towers.
- 3. All Meter positions shall have a lever bypass handle.

I. Fire Pumps

- 1. Fire pump services are not required by the **Company** to have a disconnect.
- 2. All fire pump services shall be metered with current transformers.
- 3. All fire pump metering points shall be clearly identified with permanent letters and/or numbers at least 1 inch in height.
- 4. All identification requirements are the responsibility of the **Customer**. Transockets may not be allowed by all local authorities having jurisdiction. On 4-wire 3-Phase services a neutral must be provided at the metering service point.

NOTES

4.0 Temporary Installations, Single Phase (400 Amps or Less)

1. OVERHEAD TEMPORARY SERVICES

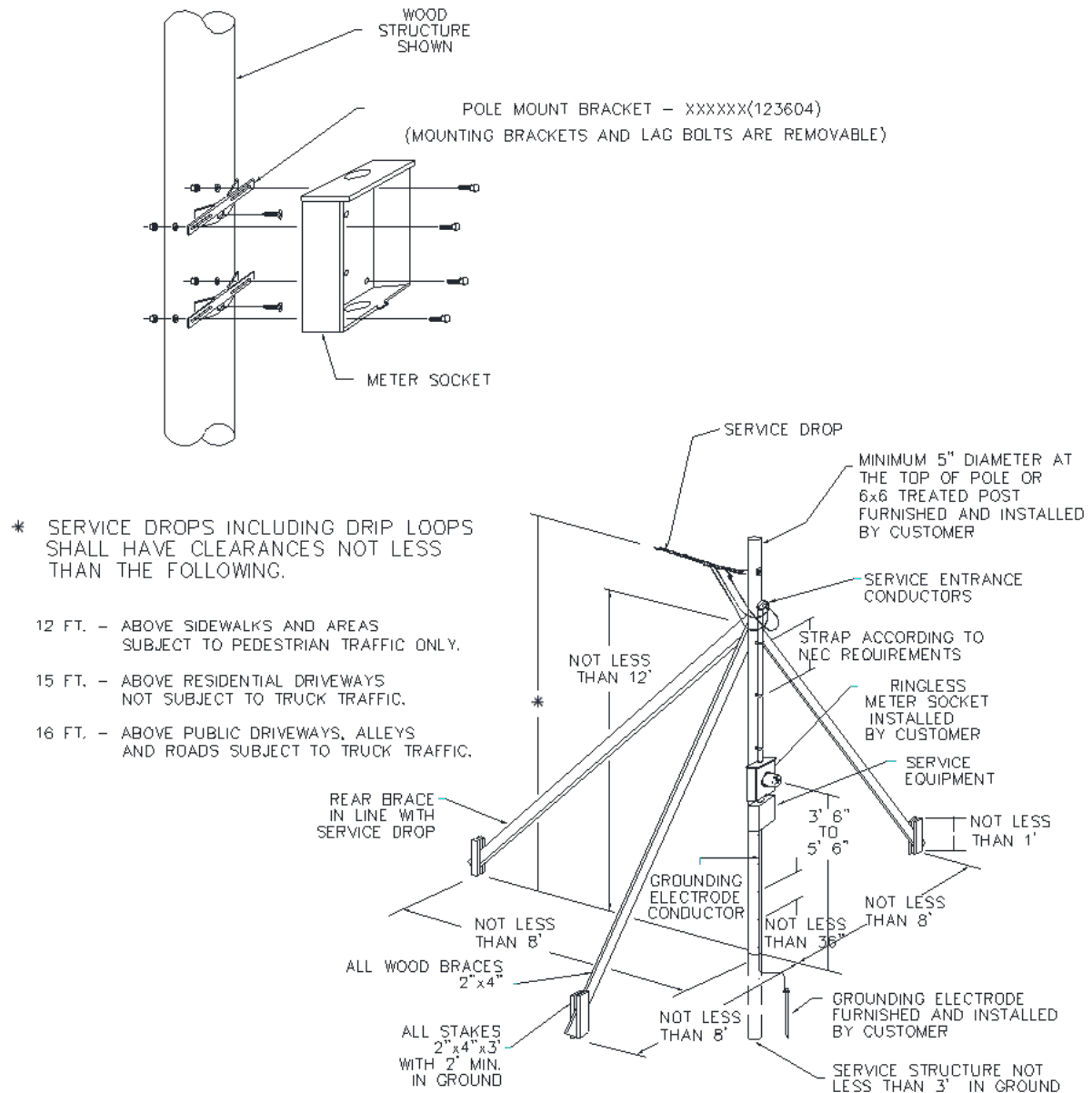
A. General Notes:

1. A 6x6 inch post or pole with a minimum of 5 inches at top, shall be installed by **Customer**. The depth shall be no less than 3 feet.
2. Overhead services shall have 16 feet clearance over public driveways, alleys, roads, and construction areas, or any other area where truck traffic is expected.
3. Conductors, conduit, conduit straps, locking nut bushings, connectors, and miscellaneous mounting hardware furnished and installed by **Customer**.
4. No uninsulated portion of the entrance cable shall come into contact with the meter socket, except at designated termination points.
5. Steel guy to be furnished by **Customer** if necessary.
6. Connections to all meters, instrument transformers and other equipment affecting the accuracy of these devices shall be made by a **qualified employee** or **contractor**.
7. Disconnection of service and removal of service laterals shall be made by **Company** only.
8. For **Temporary Services**, meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
9. All meter sockets shall be ringless.



OH Temporary Service Installation

4.1 OH Service, Typical Temporary Installation



NOTES:

1. TO OBTAIN SERVICE ACROSS A HIGHWAY, CONTACT A QUALIFIED EMPLOYEE.
2. CUSTOMER SHALL FURNISH, INSTALL AND MAINTAIN:
 - A. TREATED WOOD RATED FOR IN GROUND USE SHALL BE USED FOR POLE [CLASS 5 (5" AT TOP) OR 6x6 POST], BRACES AND STAKES.
 - B. SERVICE ENTRANCE CONDUCTORS AND CONDUIT WHERE REQUIRED.
 - C. SERVICE EQUIPMENT.
 - D. GROUNDING ELECTRODE WITH NOT LESS THAN NO.6 COPPER GROUNDING ELECTRODE CONDUCTOR.
3. A FIFTH LUG OR GROUND LUG MUST BE FURNISHED AND INSTALLED BY CUSTOMER FOR NETWORK ON WYE SERVICES.
4. EACH METER SOCKET SHALL HAVE SERVICE ADDRESS OR LOT NUMBER.
5. TEMP INSTALLATION MUST MEET PERMANENT CLEARANCES..

OH SERVICE, TYPICAL TEMPORARY INSTALLATION

DRAWN BY <u>A.A.W.B.</u>	DATE <u>4/1/88</u>	REVISIONS <u>7/14/89, 12/20/91,</u>	GEORGIA POWER COMPANY
TRACED BY <u>A.A.W.B.</u>	SCALE <u>NONE</u>	<u>12/31/92, 8/23/99, 01/13/00</u>	
APPROVED _____		<u>10/28/03, 01/13/04, 11/14/11</u>	

4.2 UD Service, Typical Temporary Installation

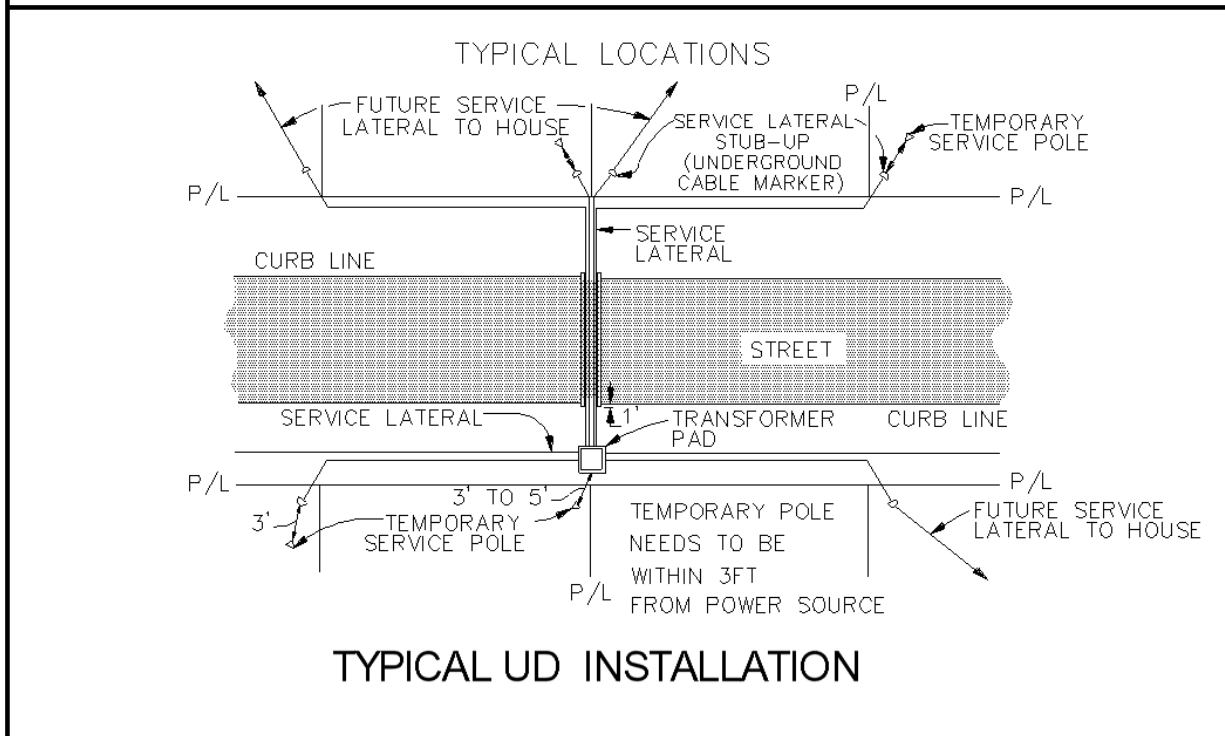
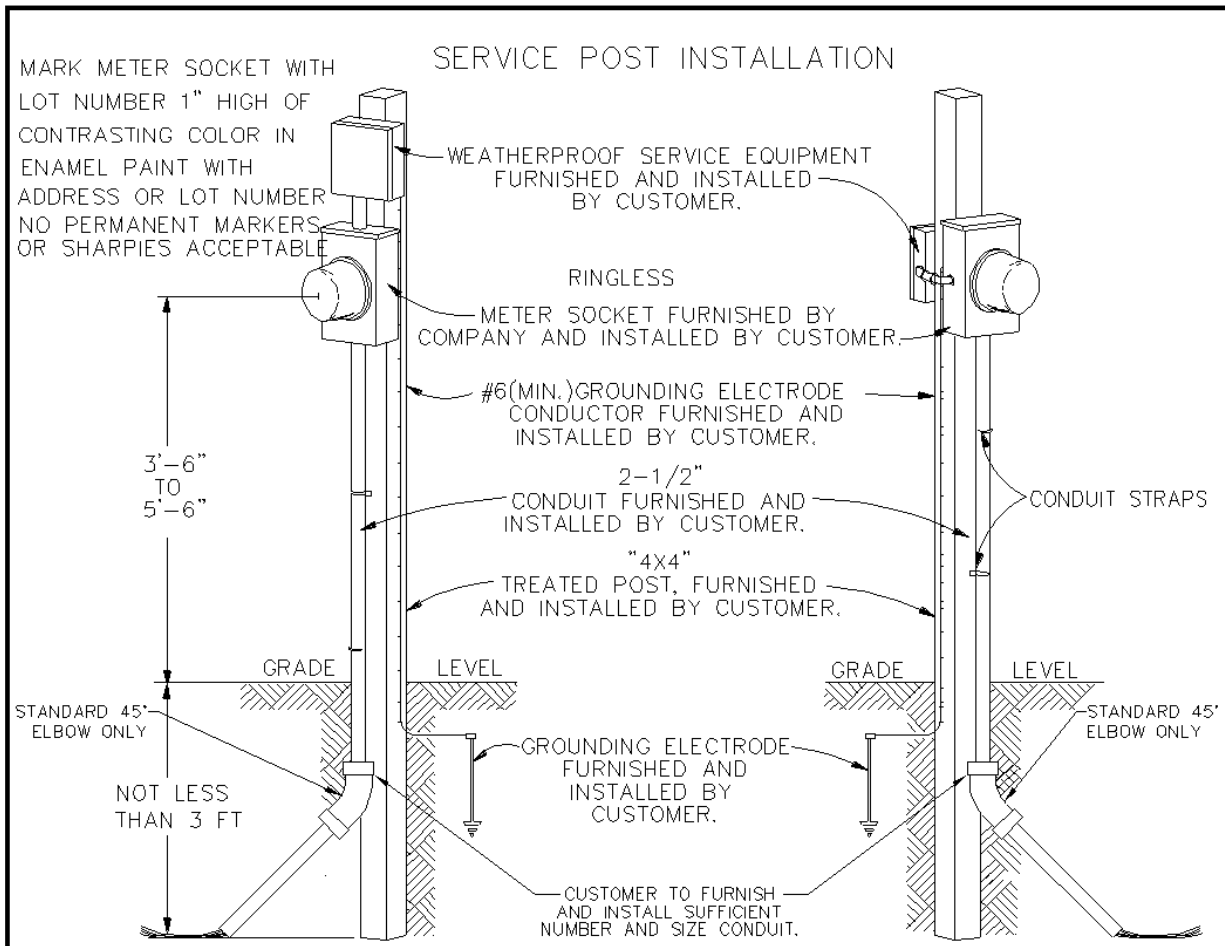
A. General Notes:

1. There shall be a 4x4 inch post installed by the **Customer**.
2. Conduit shall be 2½ inch minimum trade size furnished and installed by **Customer**.
3. Installation to be within 3 feet – 5 feet of power source.
4. All underground service connections shall be made by the **Company** only.
5. Where aluminum conductors are terminated in meter sockets or other **Company** owned equipment, inhibitor of the non-grit type shall be used in each conductor connector and around the circumference of each conductor including the grounded conductor (neutral).
6. Disconnections of all underground services shall be made by **Company** only.
7. For **Temporary Services**, meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
8. All meter sockets shall be ringless.



UD Temporary Service Installation

UD Service, Typical Temporary Installation

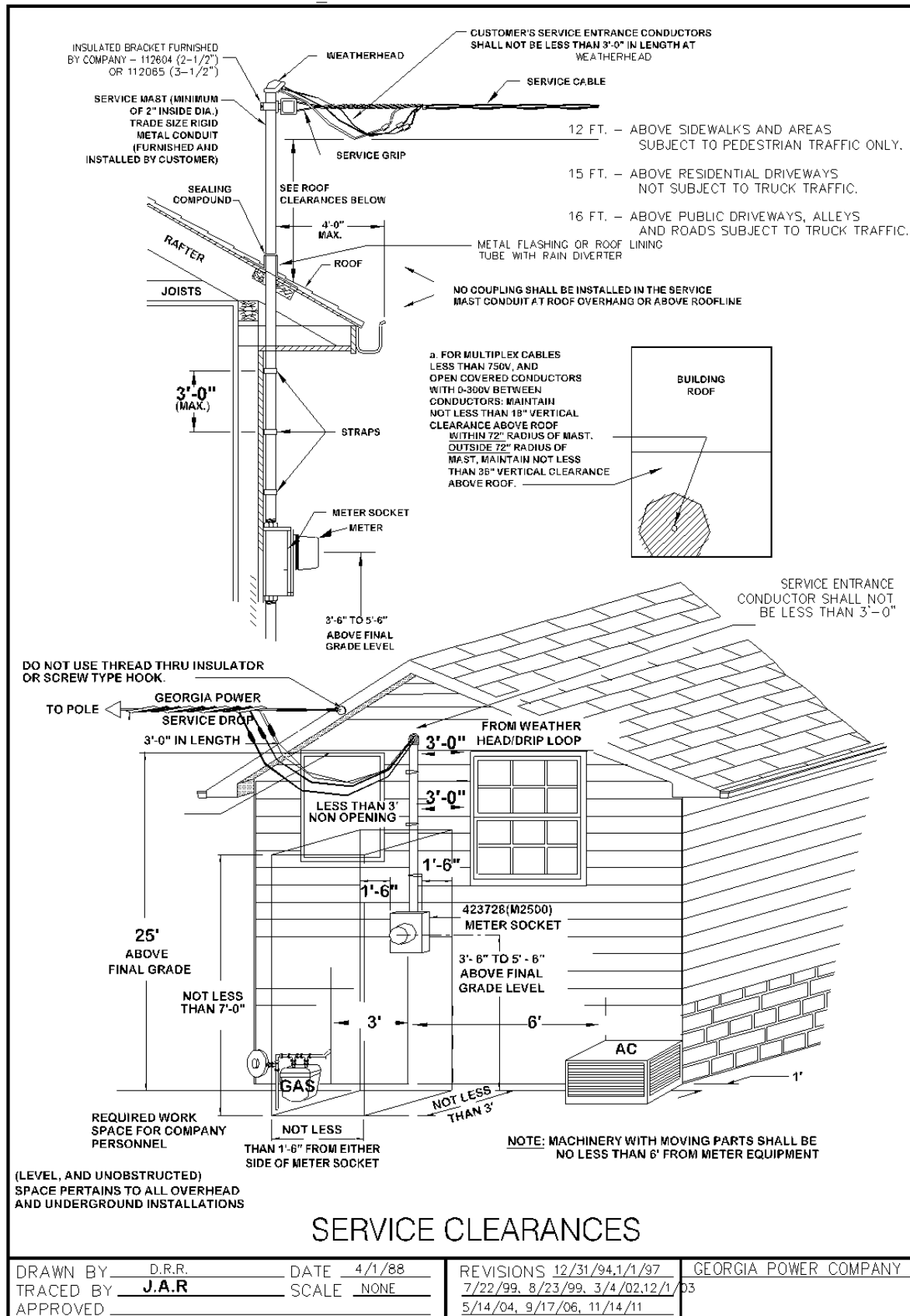


TYPICAL UD INSTALLATION

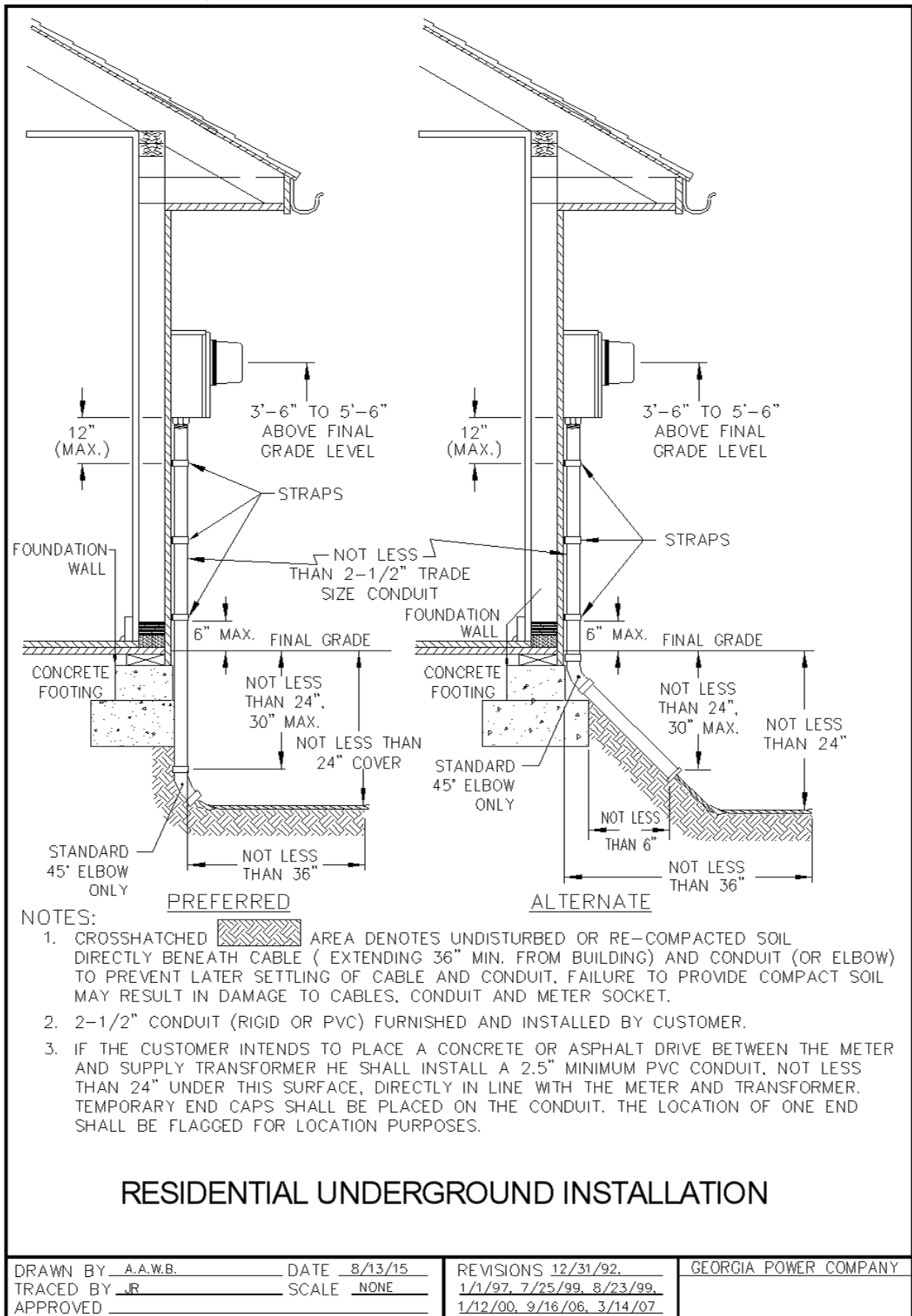
DRAWN BY	AAWB.	DATE	08/13/15	REVISIONS	7/14/89, 12/31/92, 8/23/99, 11/10/99, 10/03/06,	GEORGIA POWER COMPANY
TRACED BY	J.A.R.	SCALE	NONE			
APPROVED						

5.0 Residential Specifications

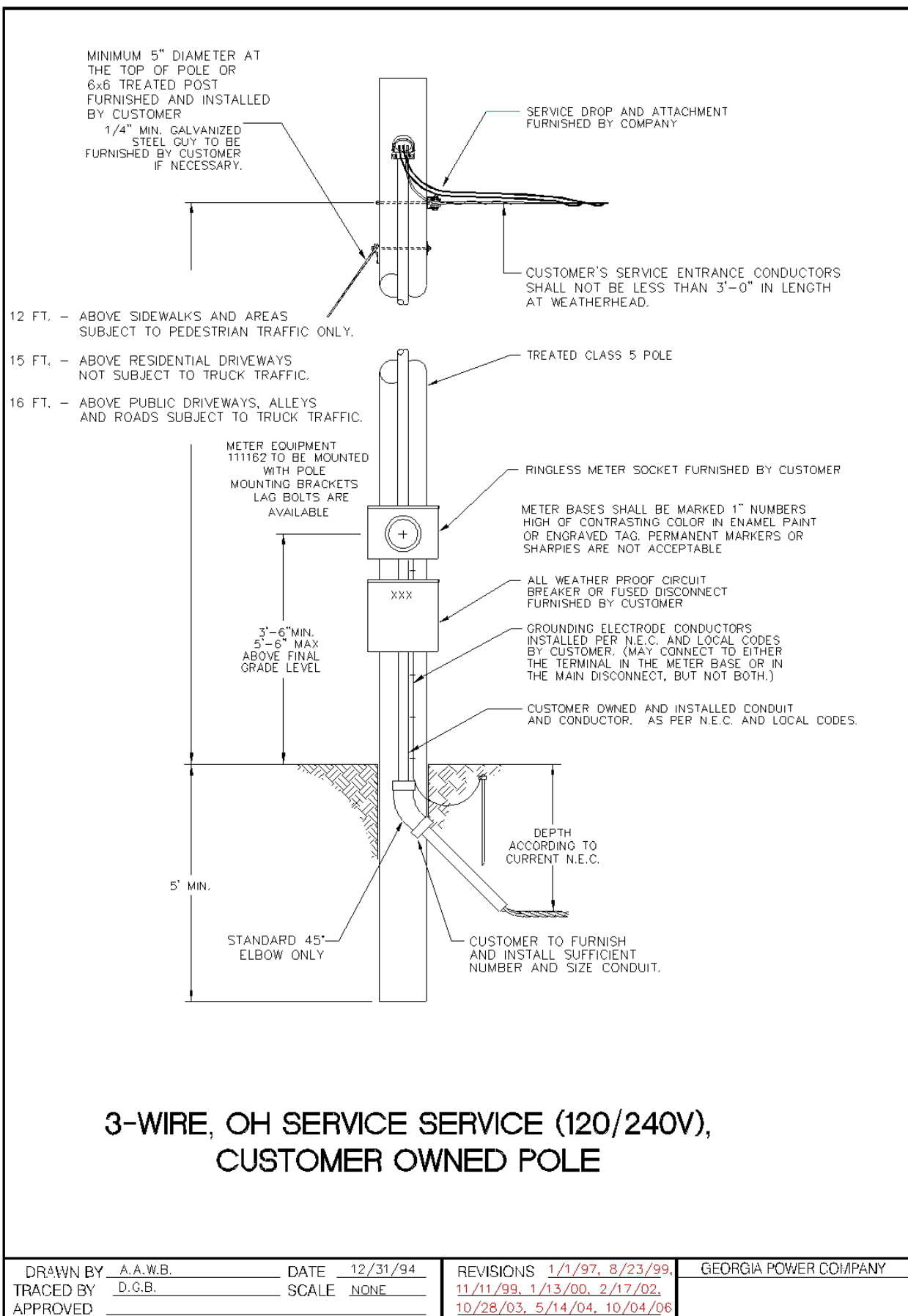
5.1 OH Service Clearances



5.2 Residential Underground Service Installation



5.3 3-Wire, OH Service, (120/240V), (225A or Less)

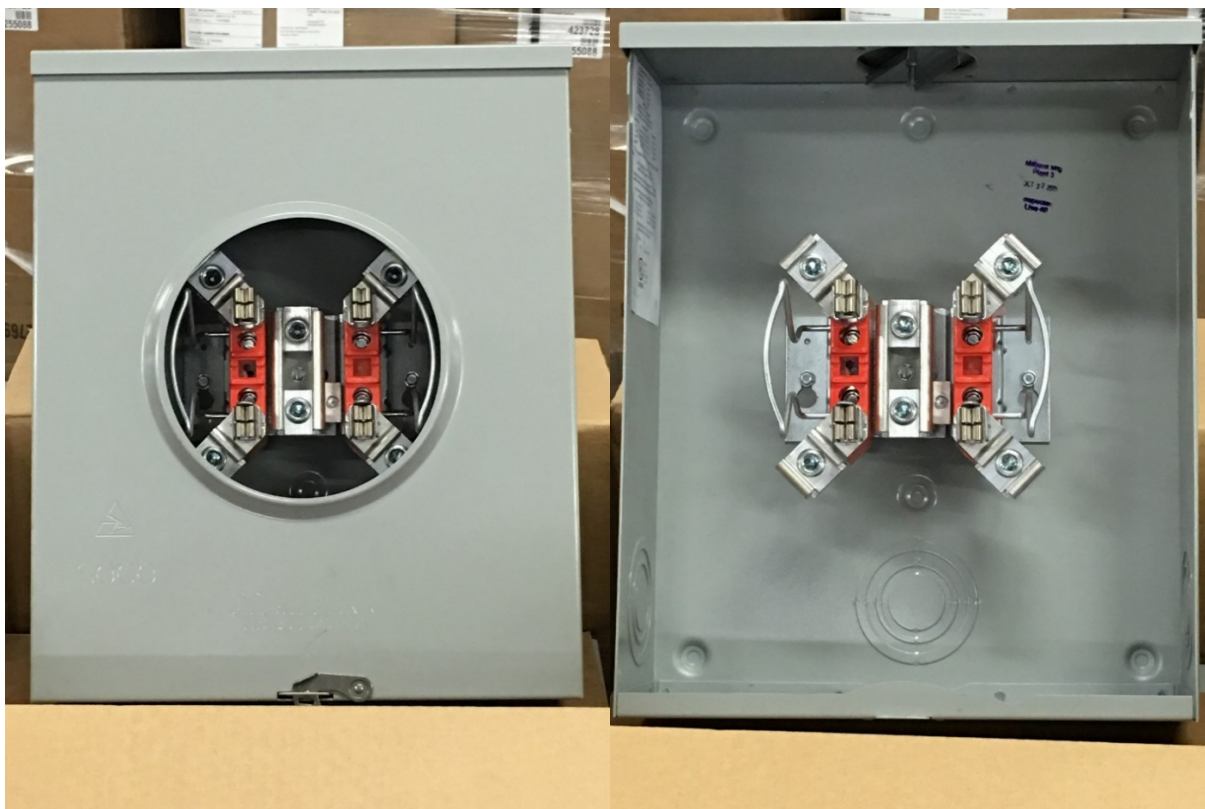


NOTES

6.0 Overhead Company Owned Sockets

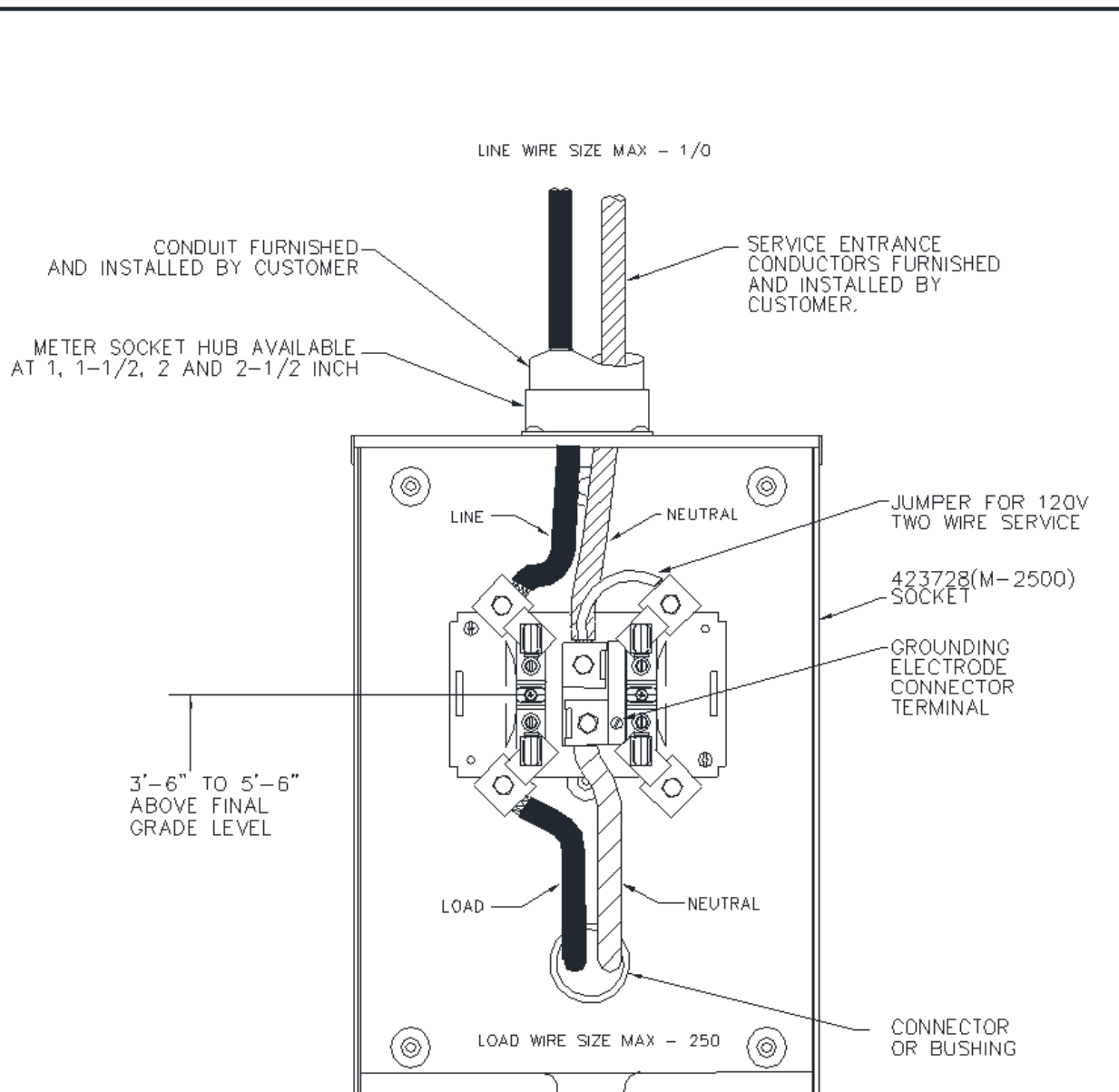
A. General Notes:

1. Overhead services shall have 16 feet clearance over public driveways, alleys, roads, and construction areas, or any other areas where truck traffic is expected.
2. Conductors, conduit, conduit straps, locking nut bushings, connectors, and miscellaneous mounting hardware furnished and installed by **Customer**.
3. All service laterals and connections shall be made by **Company** only.
5. Where **aluminum** conductors are terminated in meter sockets or other **Company** owned equipment, inhibitor of the non-grit type shall be used in each conductor connector and around the circumference of each conductor including the grounded conductor (neutral).
4. Disconnection of service laterals and removal of service connections shall be made by **Company** only.
5. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
6. All meter sockets shall be ringless.



200 Amp, Self-Contained Single-Phase Residential Socket - Maximo # 432728

6.1 2-Wire, OH Service, (120V), (100A or Less)



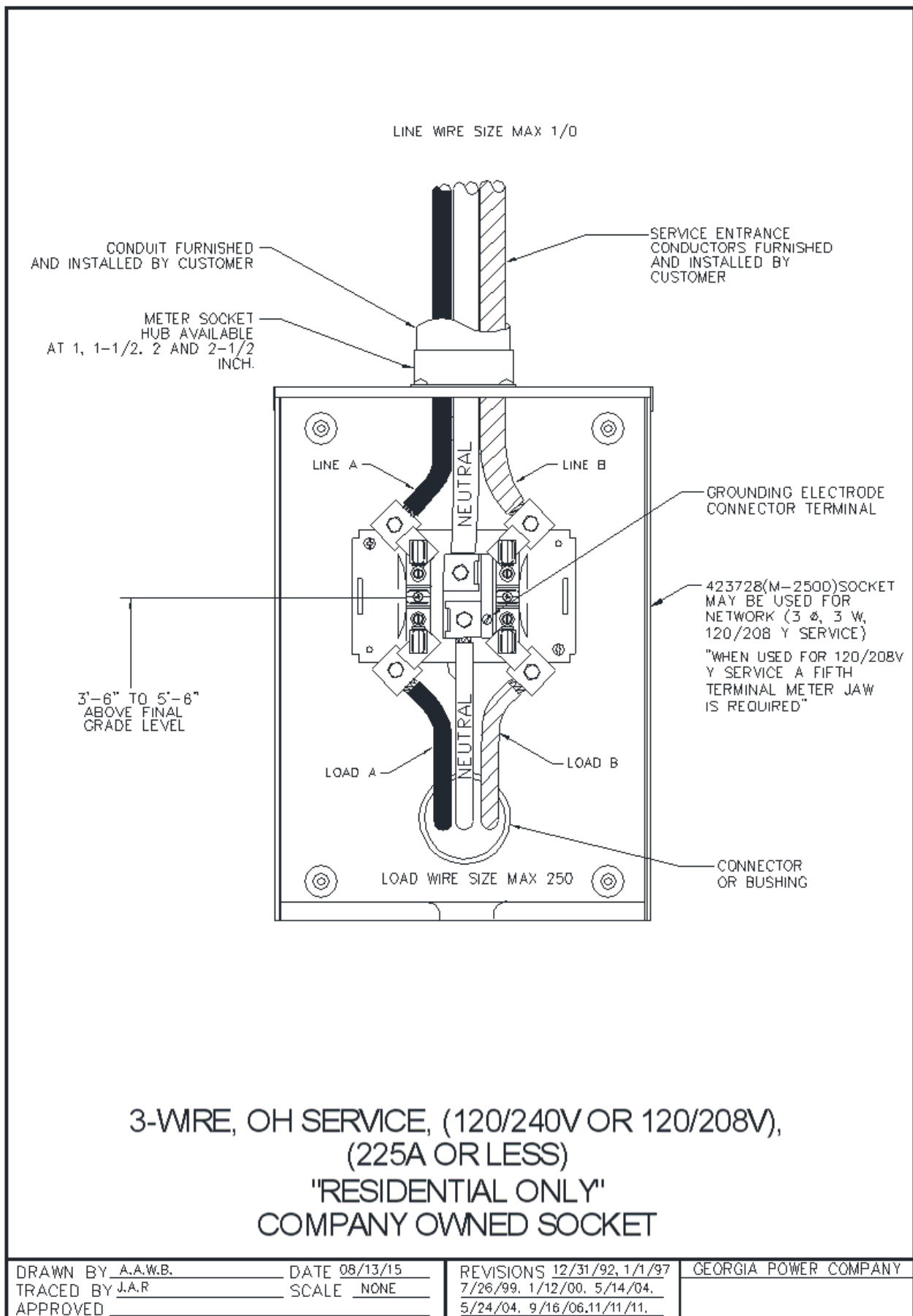
NOTE:

FOR LOADS ABOVE 100A USE 3-WIRE SERVICE INSTALLATION.
ALL METER SOCKETS SHALL HAVE A NEUTRAL LUG.

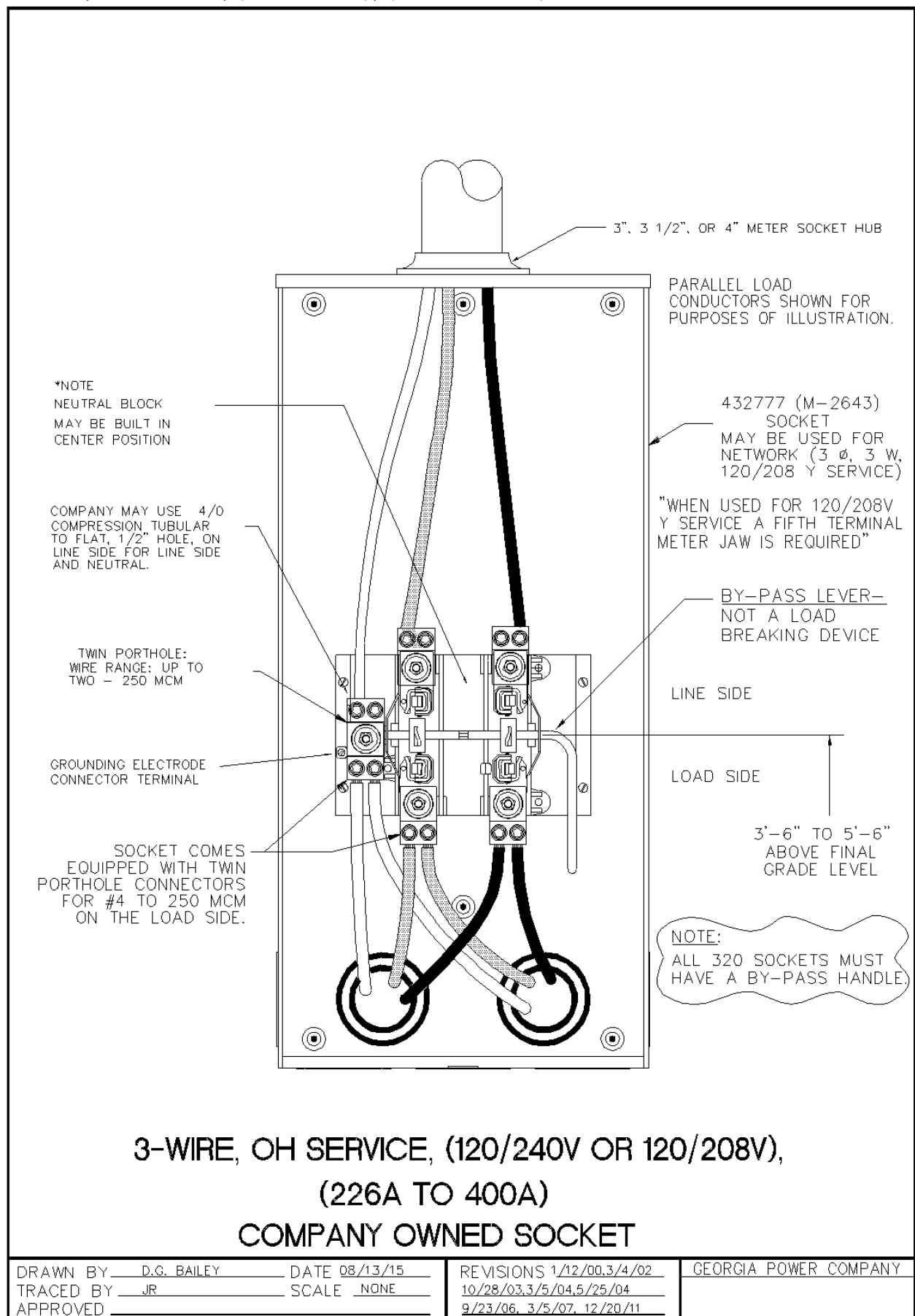
2-WIRE, OH SERVICE, 120V, (100A OR LESS) COMPANY OWNED SOCKET

DRAWN BY <u>A.A.W.B</u>	DATE <u>08/13/15</u>	REVISIONS <u>12/31/92, 7/26/99</u>	GEORGIA POWER COMPANY
TRACED BY <u>J.A.R</u>	SCALE <u>NONE</u>	<u>9/16/06, 11/11/11,</u>	
APPROVED _____			

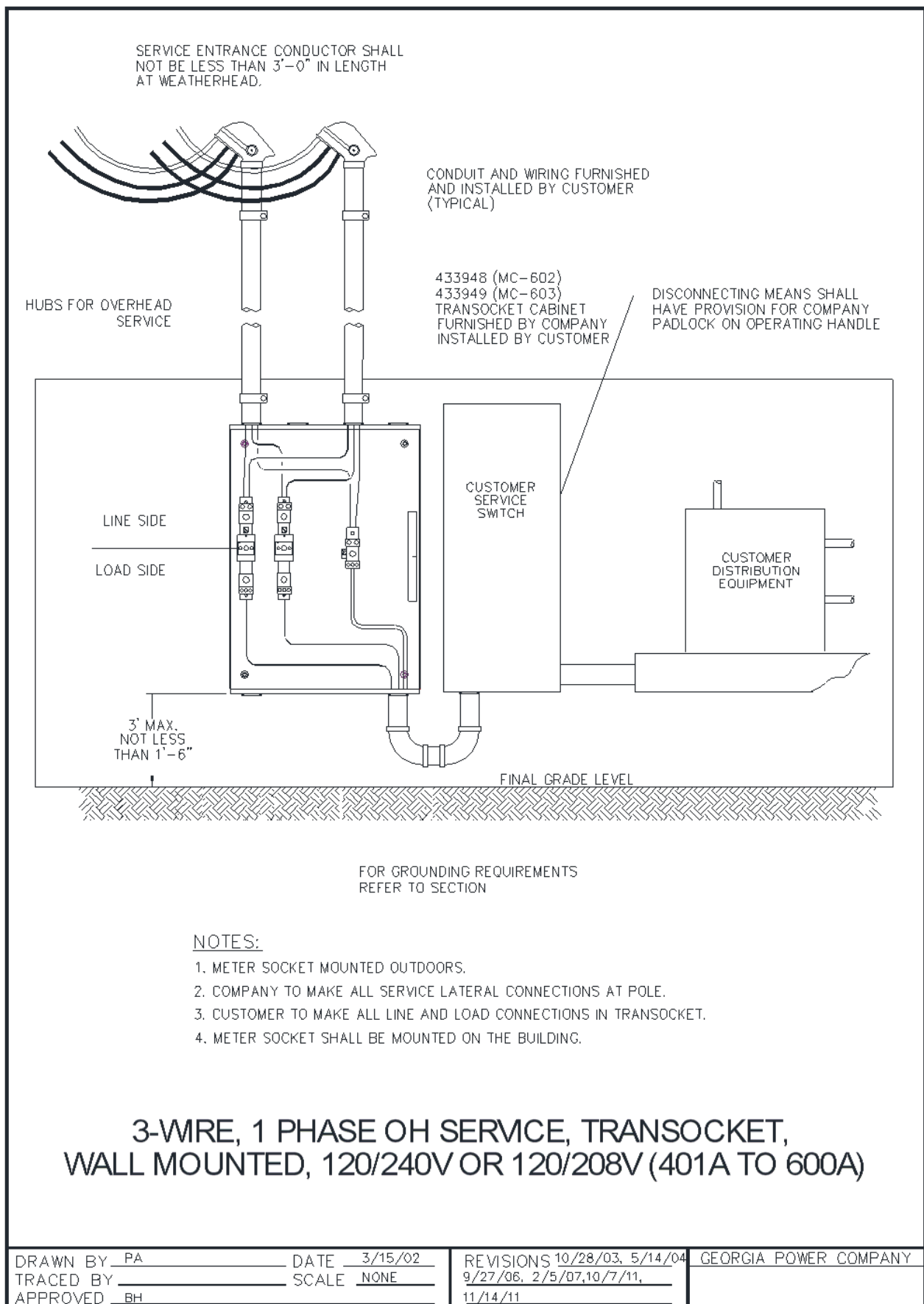
6.2 3-Wire, OH Service, (120V-240V), (225A or Less), “Residential Only”



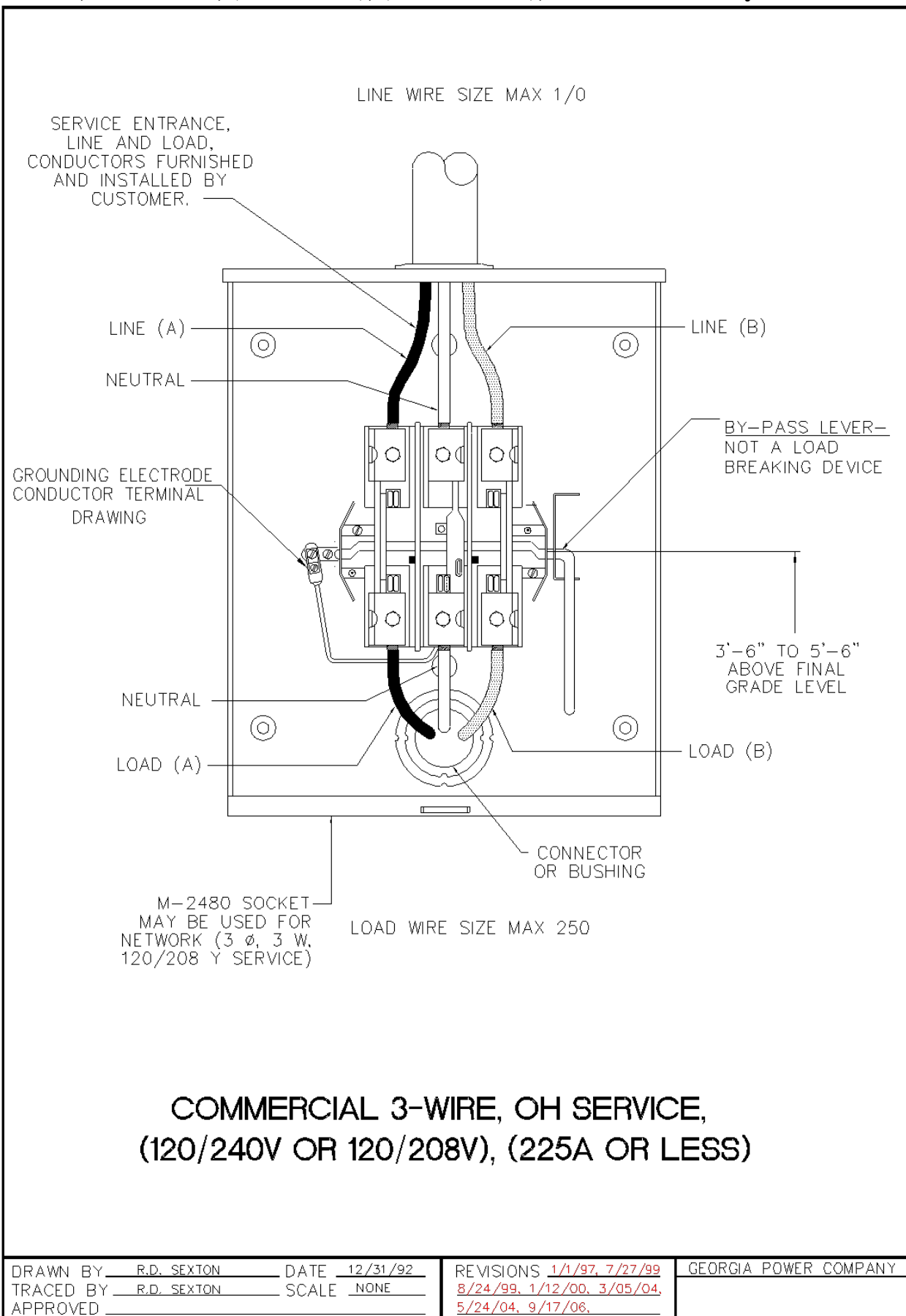
6.3 3-Wire, OH Service, (120V-240V), (226A to 400A)



6.4 3-Wire, OH Service, (120V-240V), (401A to 600A)



6.5 3-Wire, OH Service, (120V-240V), (225A or Less), “Commercial Only”

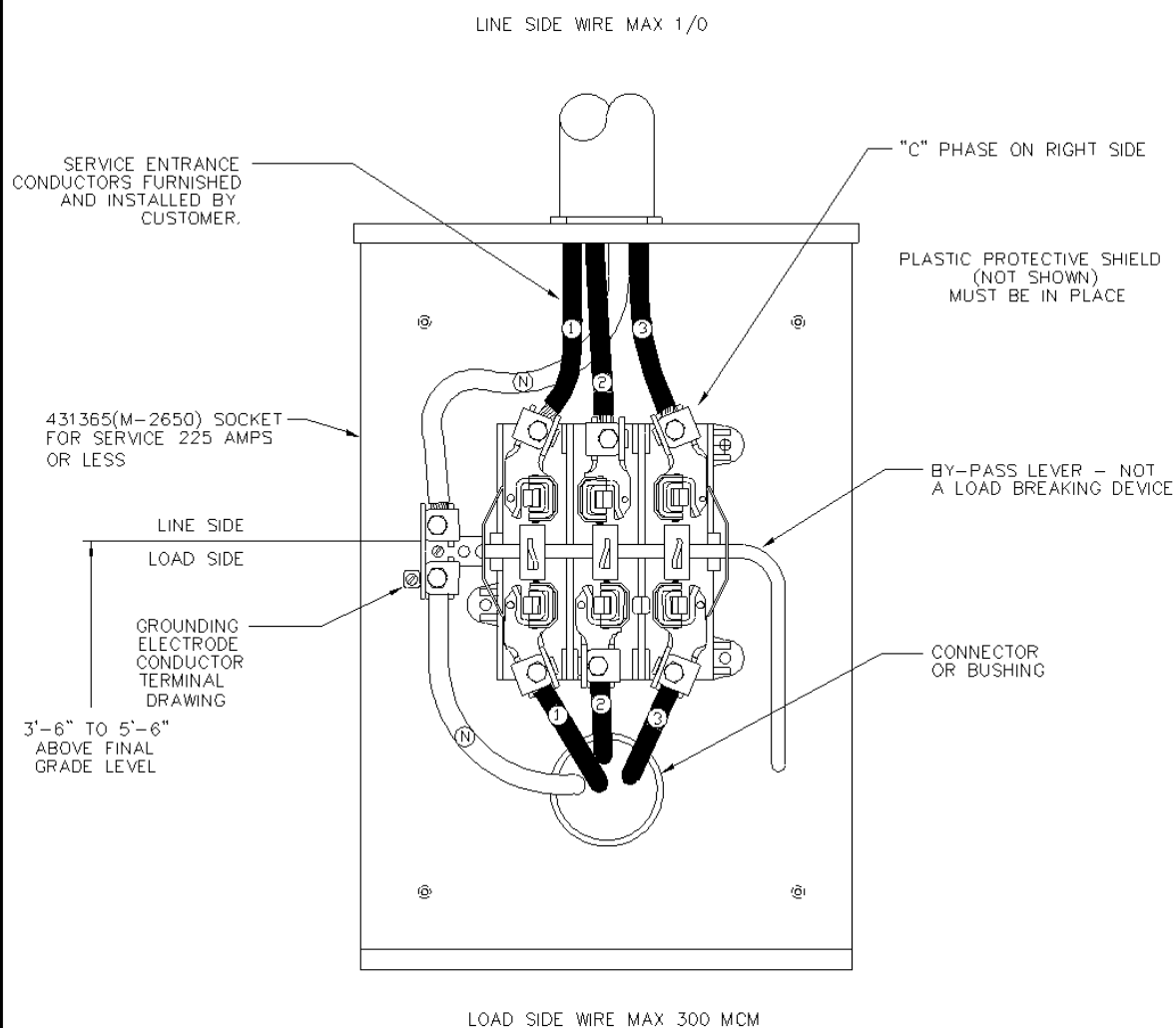


6.6 4-Wire, 3-Phase, OH Service, (225A or Less)

A. General Notes:

1. When this socket is utilized for 277/480Y volt, service, restrictions apply.
2. A **load side** disconnect shall be used with this socket and be located immediately adjacent to the socket. The disconnecting means shall be rated not less than the load to be carried and shall have interrupting rating at system voltage sufficient for the current that must be interrupted.
3. If service ground fault protection is installed ahead of the meter, the **Customer** shall be metered with instrument transformers.
4. Overhead services shall have 16 feet clearance over public driveways, alleys, roads, and construction areas, or any other areas where truck traffic is expected.
5. Conductors, conduit, conduit straps, locking nut bushings, connectors, and miscellaneous mounting hardware furnished and installed by **Customer**.
6. All service laterals and connections shall be made by **Company** only.
7. Where aluminum conductors are terminated in meter sockets or other **Company** owned equipment, inhibitor of the non-grit type shall be used in each conductor connector and around the circumference of each conductor including the grounded conductor (neutral).
8. Disconnection of service laterals and removal of service connections shall be made by **Company** only.
9. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
10. All meter sockets shall be ringless.

4-Wire, 3-Phase, OH Service, (225A or Less)



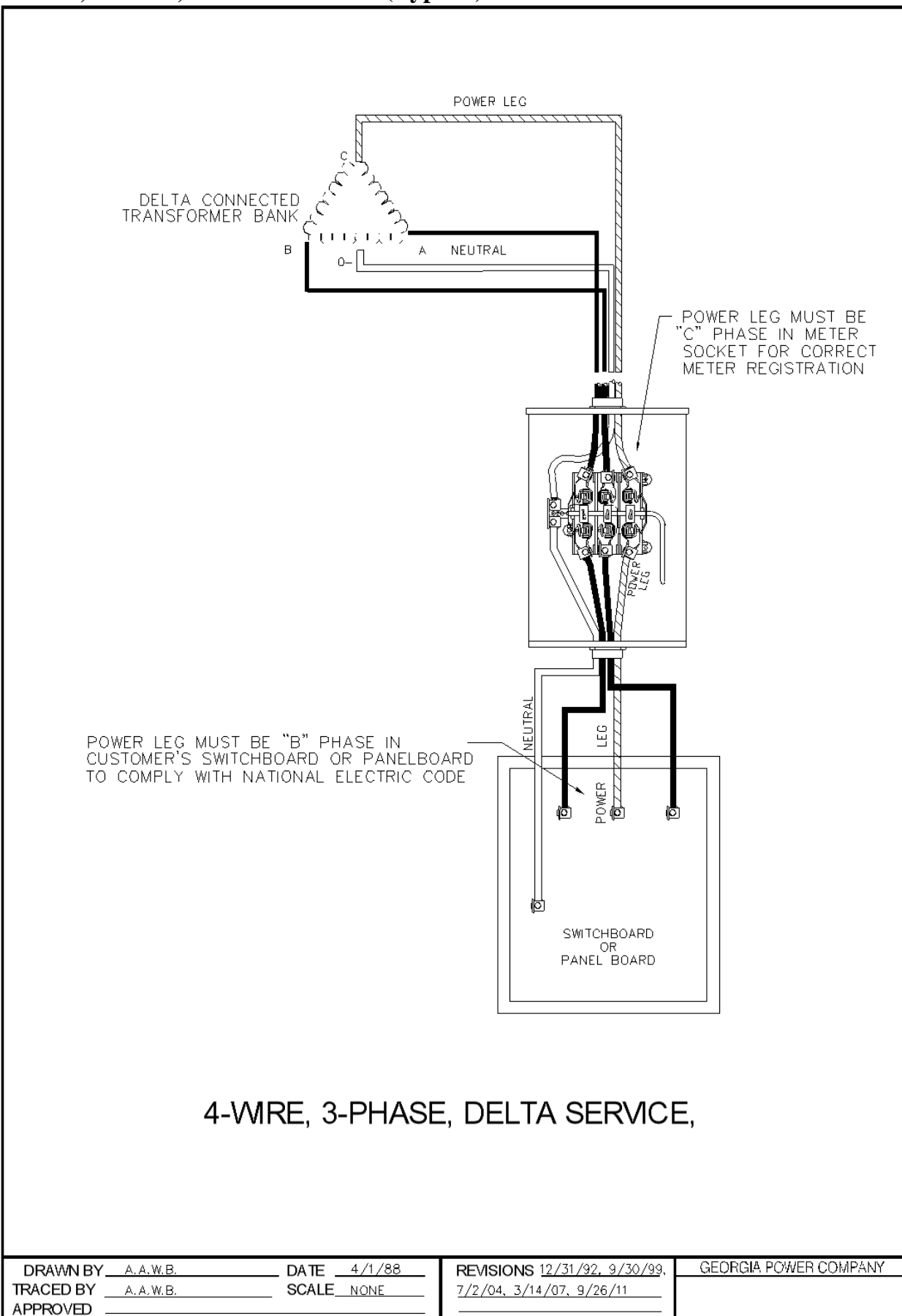
NOTE :

1- ON DELTA INSTALLATION No.3 POSITION MUST BE POWER LEG

4-WIRE, 3-PHASE, OH SERVICE, (225A OR LESS)

DRAWN BY <u>A.A.W.B.</u>	DATE <u>4/1/88</u>	REVISIONS <u>7/14/89, 12/31/92,</u>	GEORGIA POWER COMPANY
TRACED BY <u>A.A.W.B.</u>	SCALE <u>NONE</u>	<u>8/20/99, 10/28/03, 9/26/06,</u>	
APPROVED _____		<u>3/5/07, 1/9/12</u>	

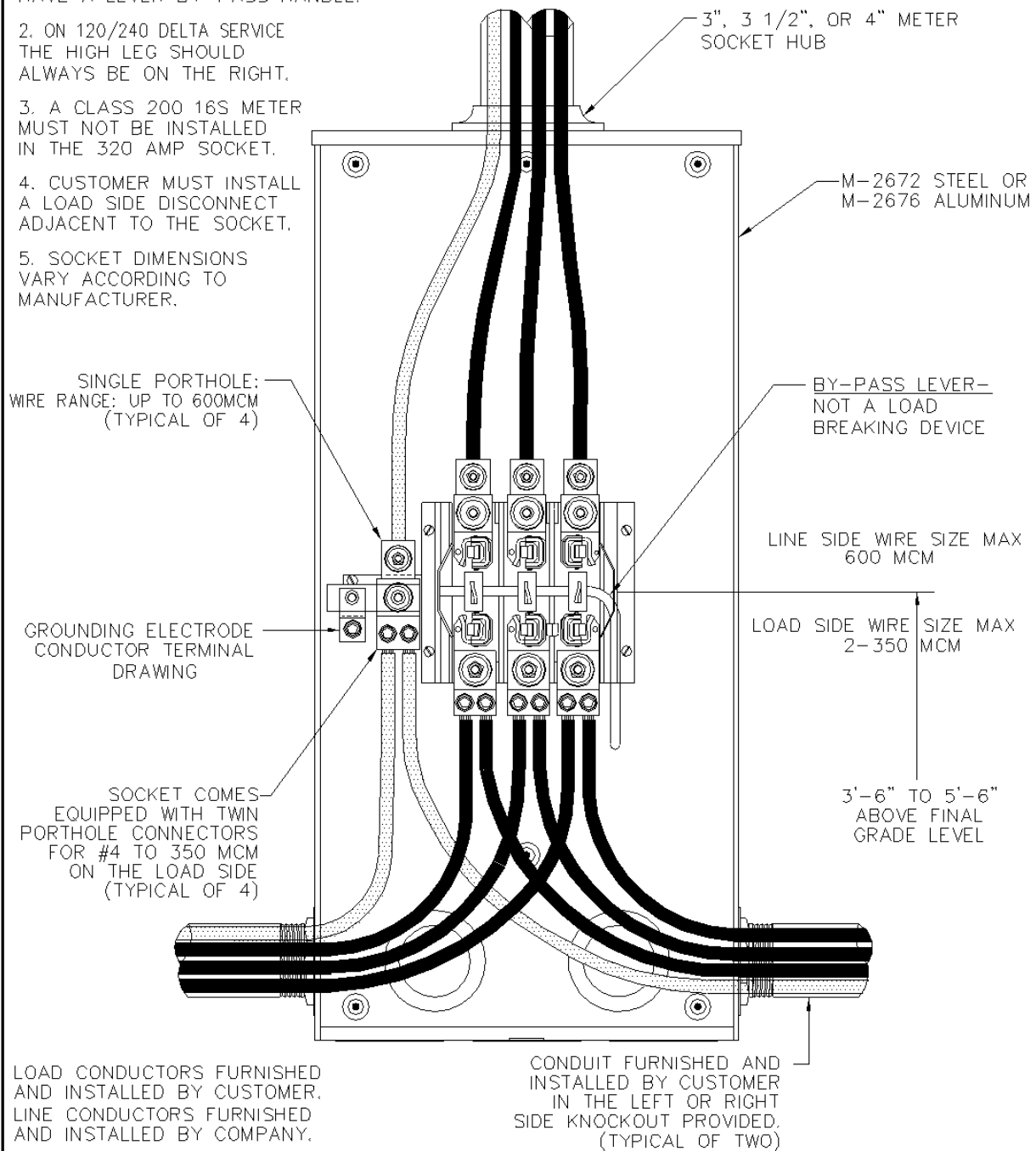
6.7 4-Wire, 3-Phase, Delta OH Service (Typical)



6.8 4-Wire, 3-Phase, OH Service, Class 320, Self-Contained

NOTES:

1. ALL 320 SOCKETS MUST HAVE A LEVER BY-PASS HANDLE.
2. ON 120/240 DELTA SERVICE THE HIGH LEG SHOULD ALWAYS BE ON THE RIGHT.
3. A CLASS 200 16S METER MUST NOT BE INSTALLED IN THE 320 AMP SOCKET.
4. CUSTOMER MUST INSTALL A LOAD SIDE DISCONNECT ADJACENT TO THE SOCKET.
5. SOCKET DIMENSIONS VARY ACCORDING TO MANUFACTURER.



**FORM 16S CLASS 320
THREE-PHASE 120/208V 4W Y,
OR 120/240V 4W DELTA
SELF-CONTAINED METER**

DRAWN BY <u>PA</u>	DATE <u>11/10/10</u>	REVISIONS <u>9/28/11,</u>	GEORGIA POWER COMPANY
TRACED BY <u>BH</u>	SCALE <u>NONE</u>		
APPROVED <u>BH</u>			

7.0 Underground Company Owned Sockets

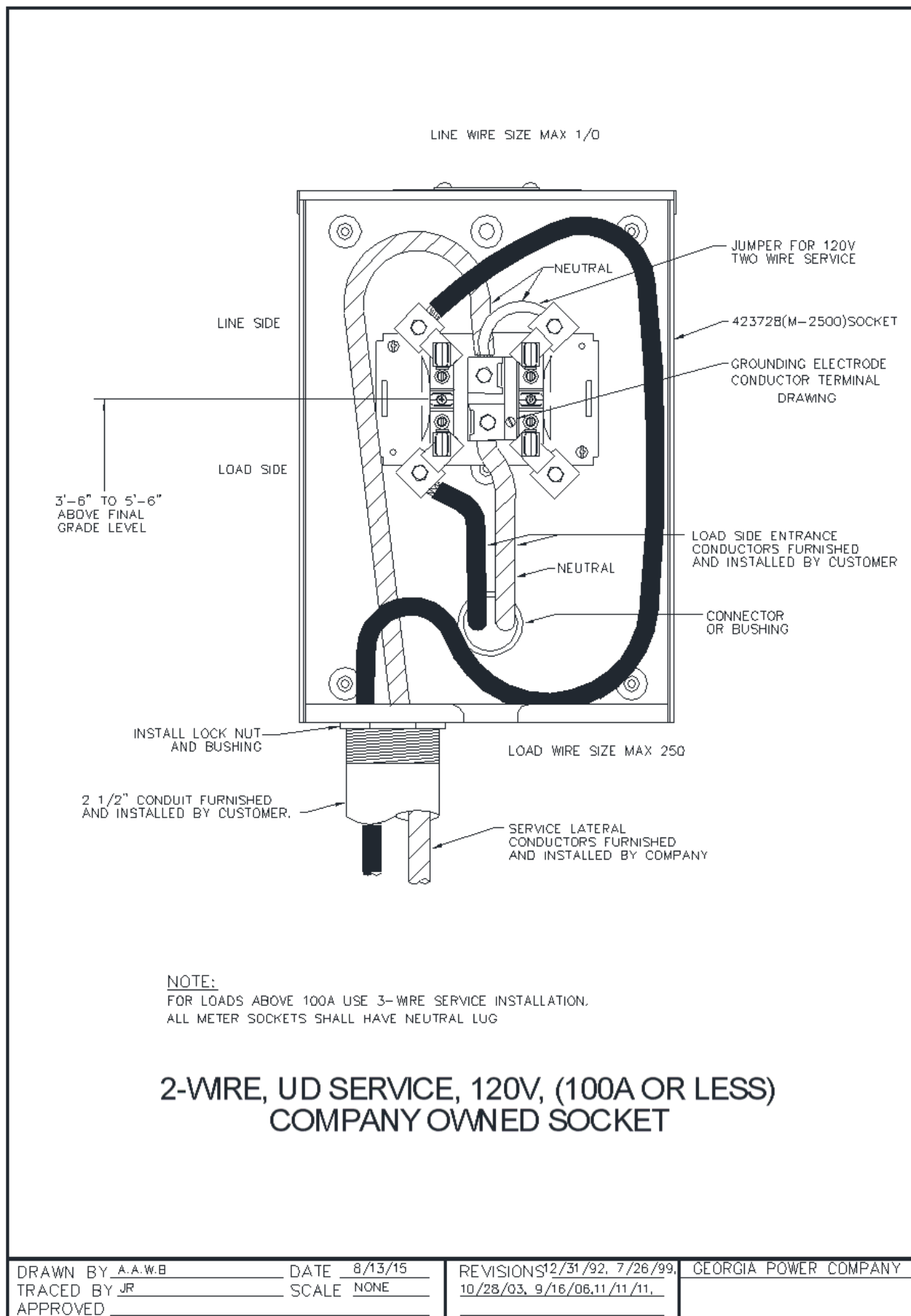
A. General Notes:

1. Conduit shall be 2½ inch minimum trade size furnished and installed by **Customer**.
2. Panel installed adjacent to home where required is furnished by **Customer**.
3. All underground service connections shall be made by the **Company** only.
4. Disconnections of all underground services shall be made by **Company** only.
5. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
6. All meter sockets shall be ringless.

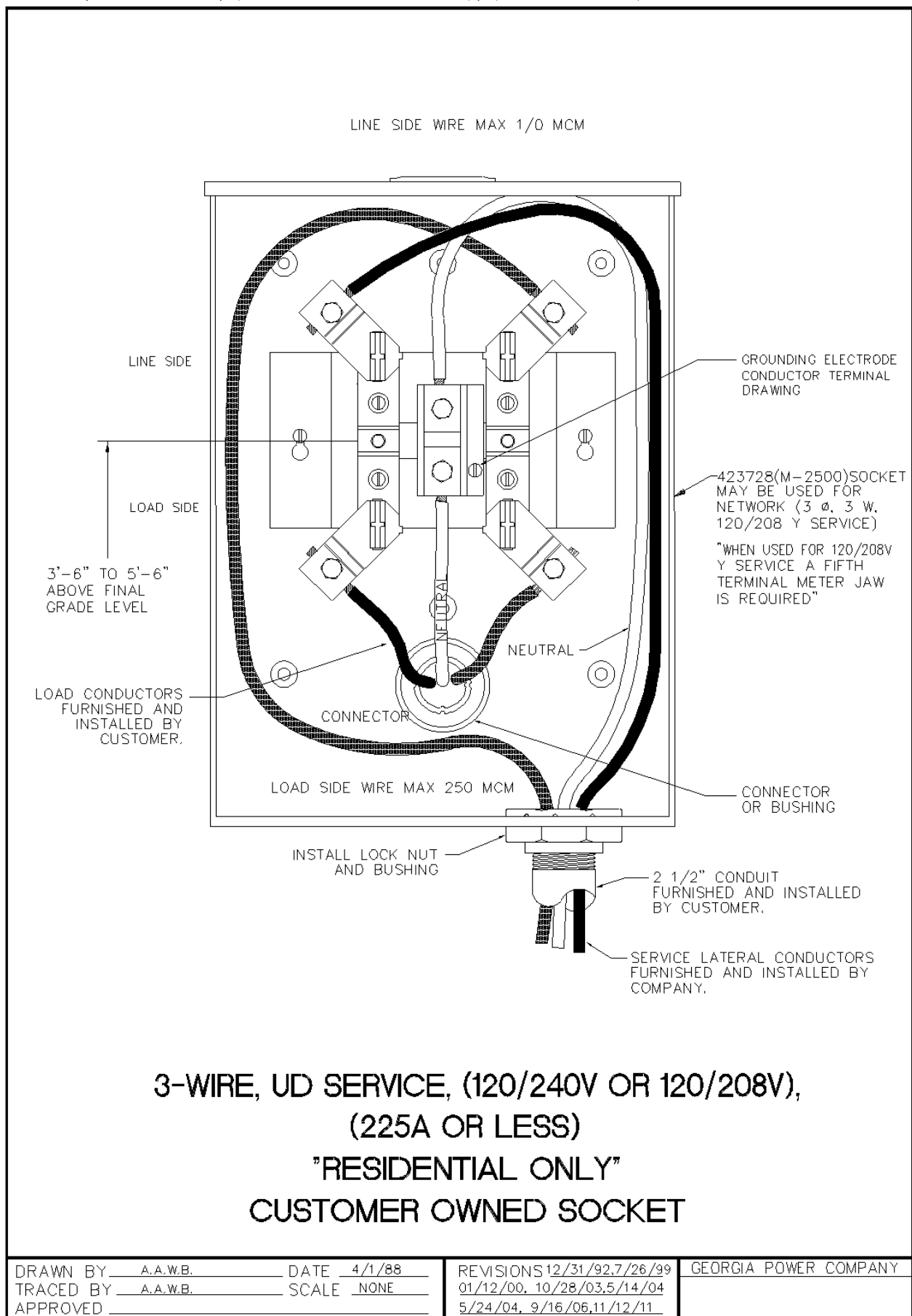


**320 Amp, Self-Contained Single-Phase
Residential or Commercial Socket - Maximo # 432777**

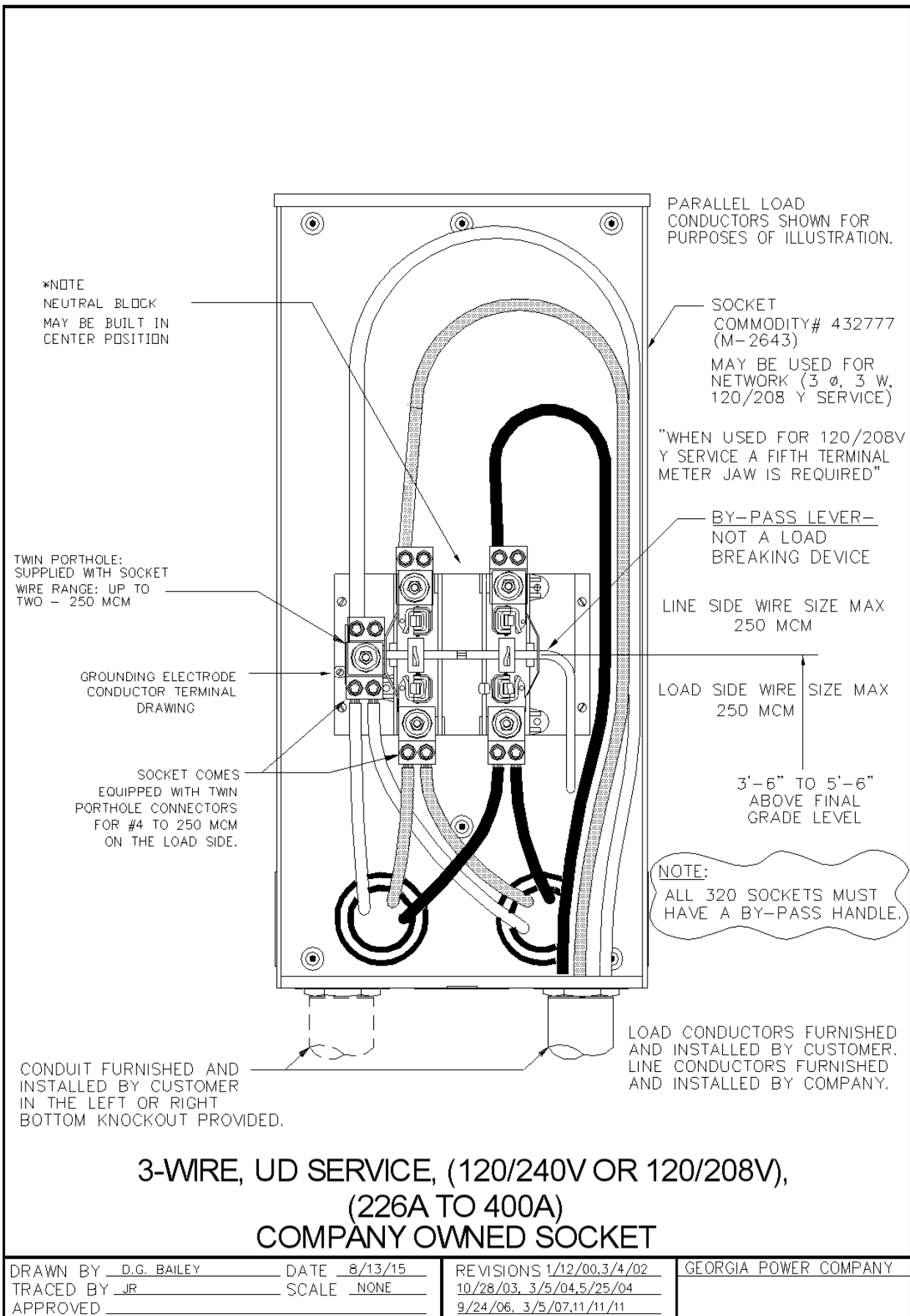
7.1 2-Wire, UD Service, (120V), (100A or Less)



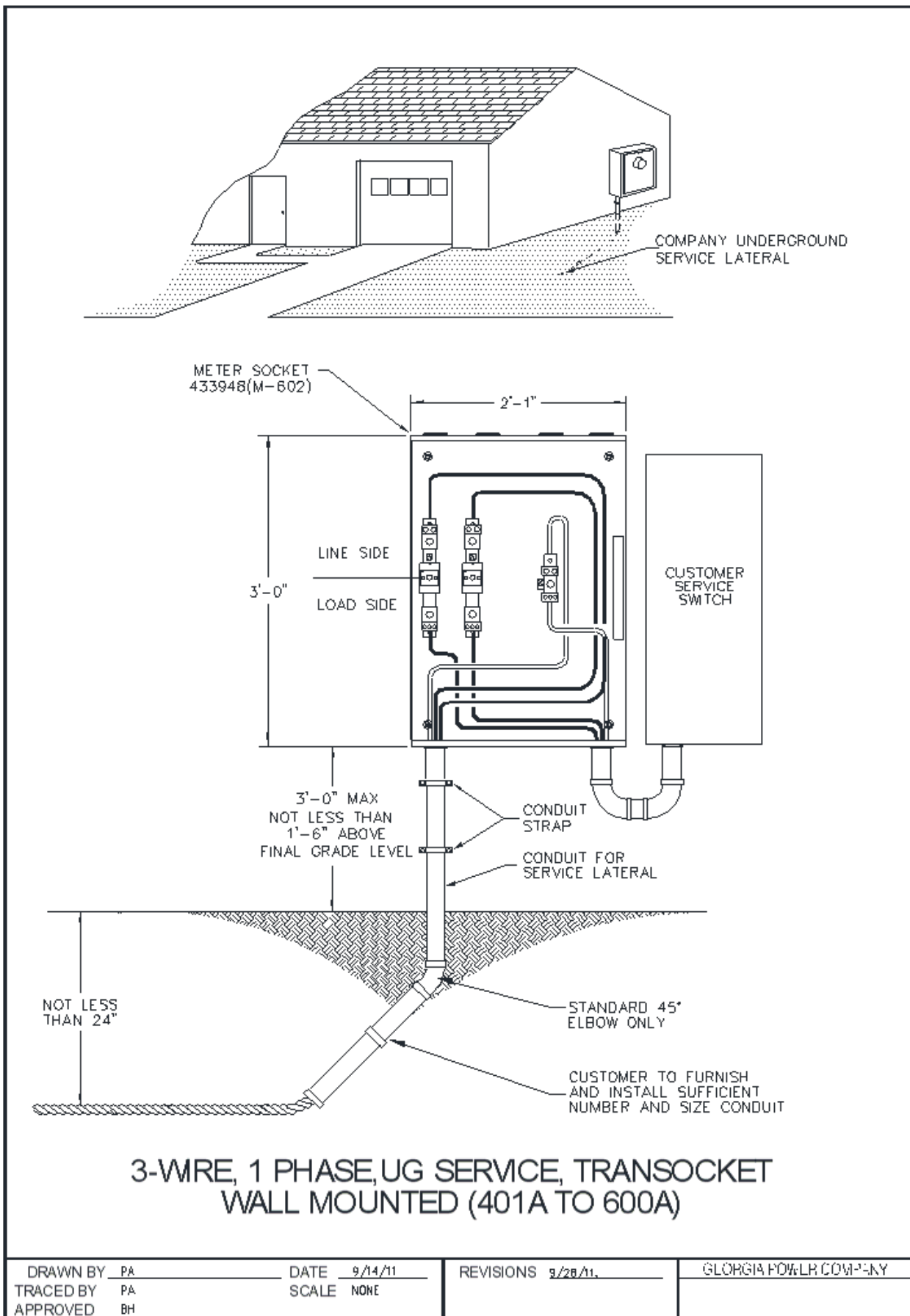
7.2 3-Wire, UD Service, (10-240V or 120-208V), (225A or Less)



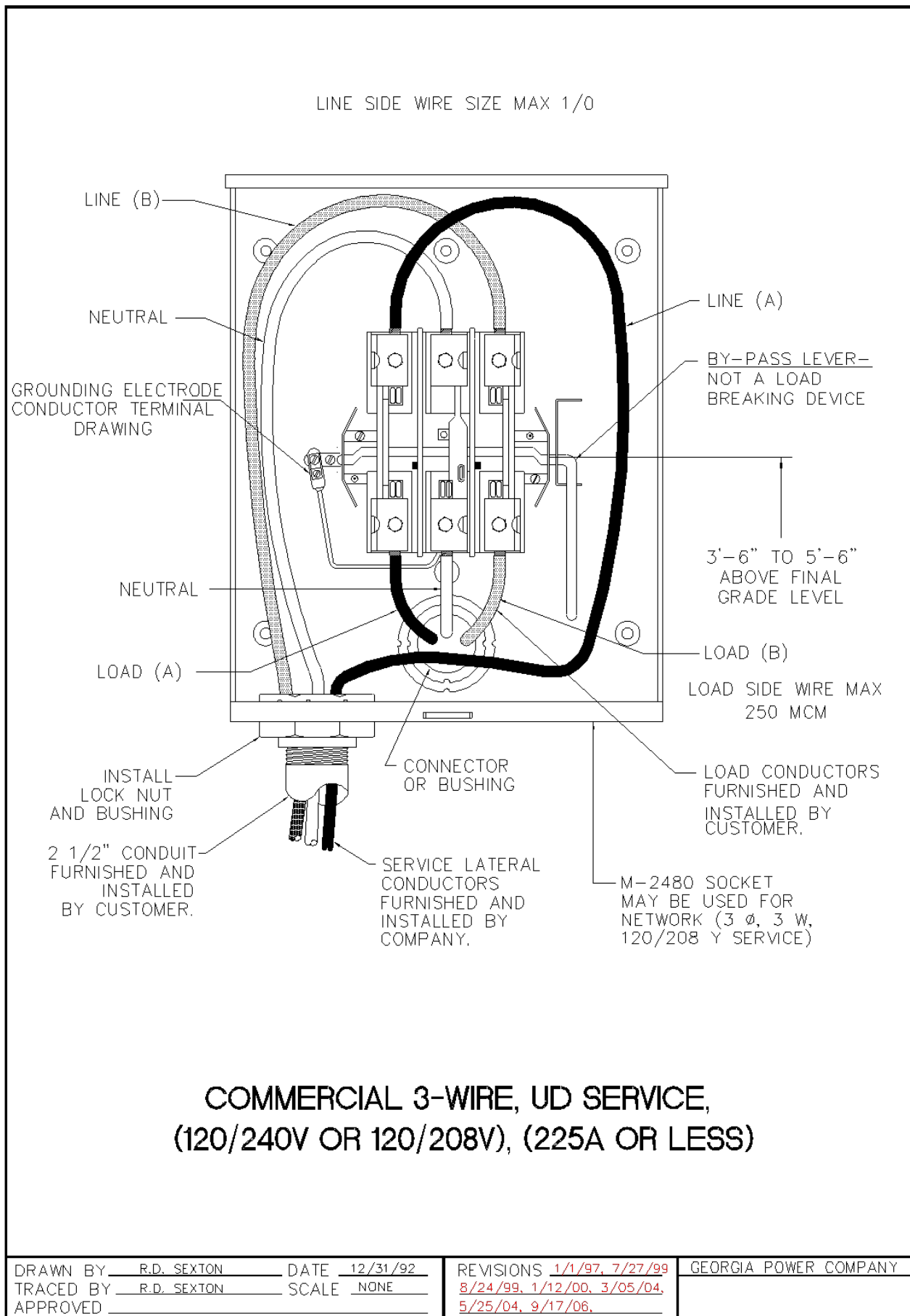
7.3 3-Wire, UD Service, (120V-240V), (226A to 400A)



7.4 3-Wire, UD Service, (120V-240V), (401A to 600A)



7.5 3-Wire, UD Service, (120V-240V), (225A or Less), “Commercial Only”

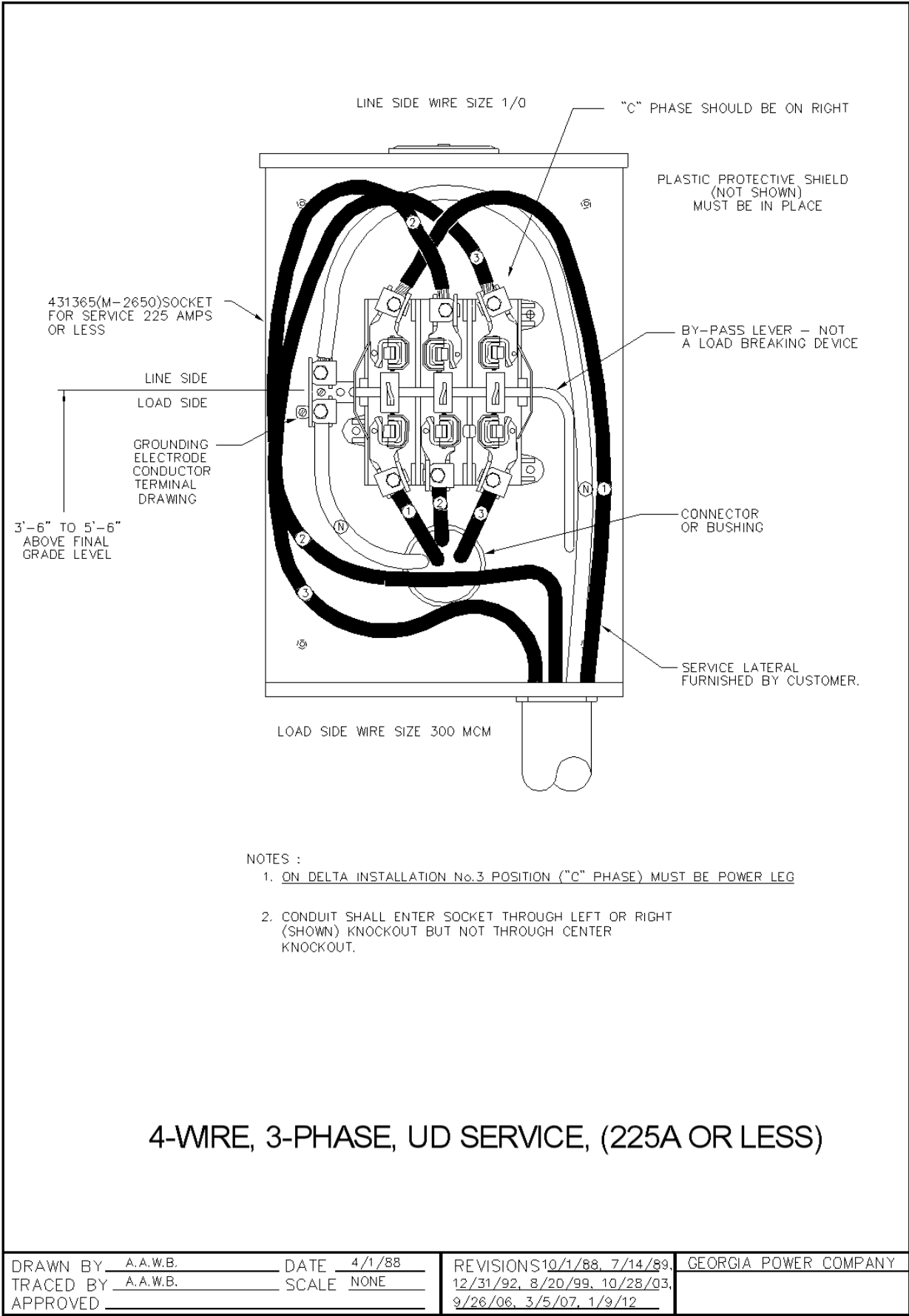


7.6 4-Wire, 3-Phase, UD Service, (225A or Less)

A. General Notes:

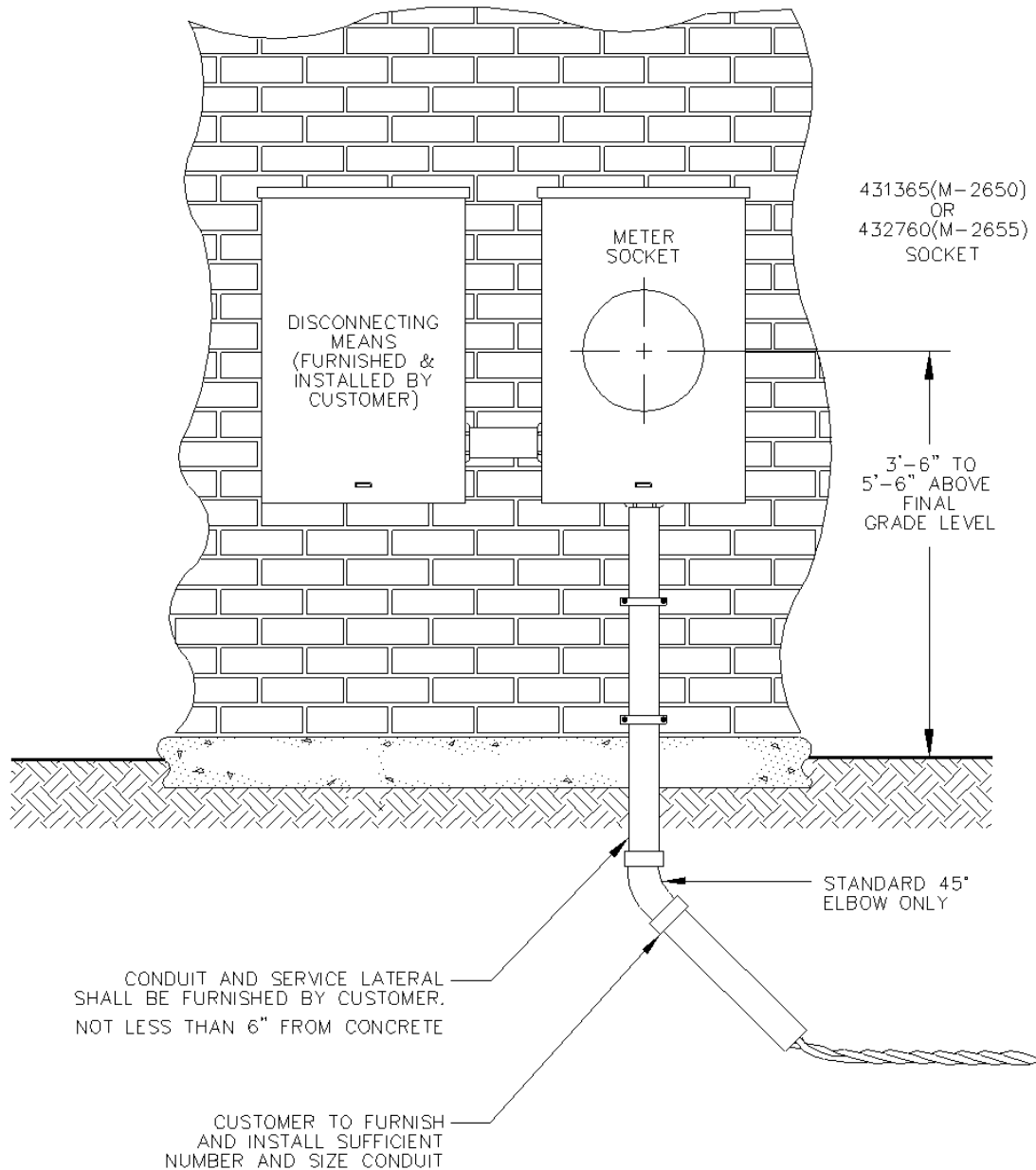
1. When this socket is utilized for 277/480Y volt service, restrictions apply.
2. A **load side** disconnect shall be used with this socket and be located immediately adjacent to the socket. The disconnecting means shall be rated not less than the load to be carried and shall have interrupting rating at system voltage sufficient for the current that must be interrupted.
3. If service ground fault protection is installed ahead of the meter, **Customer** shall be metered with instrument transformers.
4. Conduit shall be 2½ inch minimum trade size furnished and installed by **Customer**.
5. Panel installed adjacent to home where required is furnished by **Customer**.
6. All underground service connections shall be made by the **Company** only.
7. Disconnections of all underground services shall be made by **Company** only.
8. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
9. All meter sockets shall be ringless

4-Wire, 3-Phase, UD Service, (225A or Less)



DRAWN BY	A.A.W.B.	DATE	4/1/88	REVISIONS	10/1/88, 7/14/89, 12/31/92, 8/20/99, 10/28/03, 9/26/06, 3/5/07, 1/9/12	GEORGIA POWER COMPANY
TRACED BY	A.A.W.B.	SCALE	NONE			
APPROVED						

4-Wire, 3-Phase, UD Service, (277/480V), (225A or Less)



4-WIRE, 3-PHASE, (277/480Y), (225A OR LESS)

DRAWN BY <u>C.S.J.</u>	DATE <u>4/1/88</u>	REVISIONS <u>12/31/92, 12/31/94,</u>	GEORGIA POWER COMPANY
TRACED BY <u>C.S.J.</u>	SCALE <u>NONE</u>	<u>1/1/97, 8/20/99, 11/10/99,</u>	
APPROVED _____		<u>10/04/06, 11/14/11</u>	

7.7 4-Wire, 3-Phase, UD Service, Class 320, Self-Contained

NOTES:

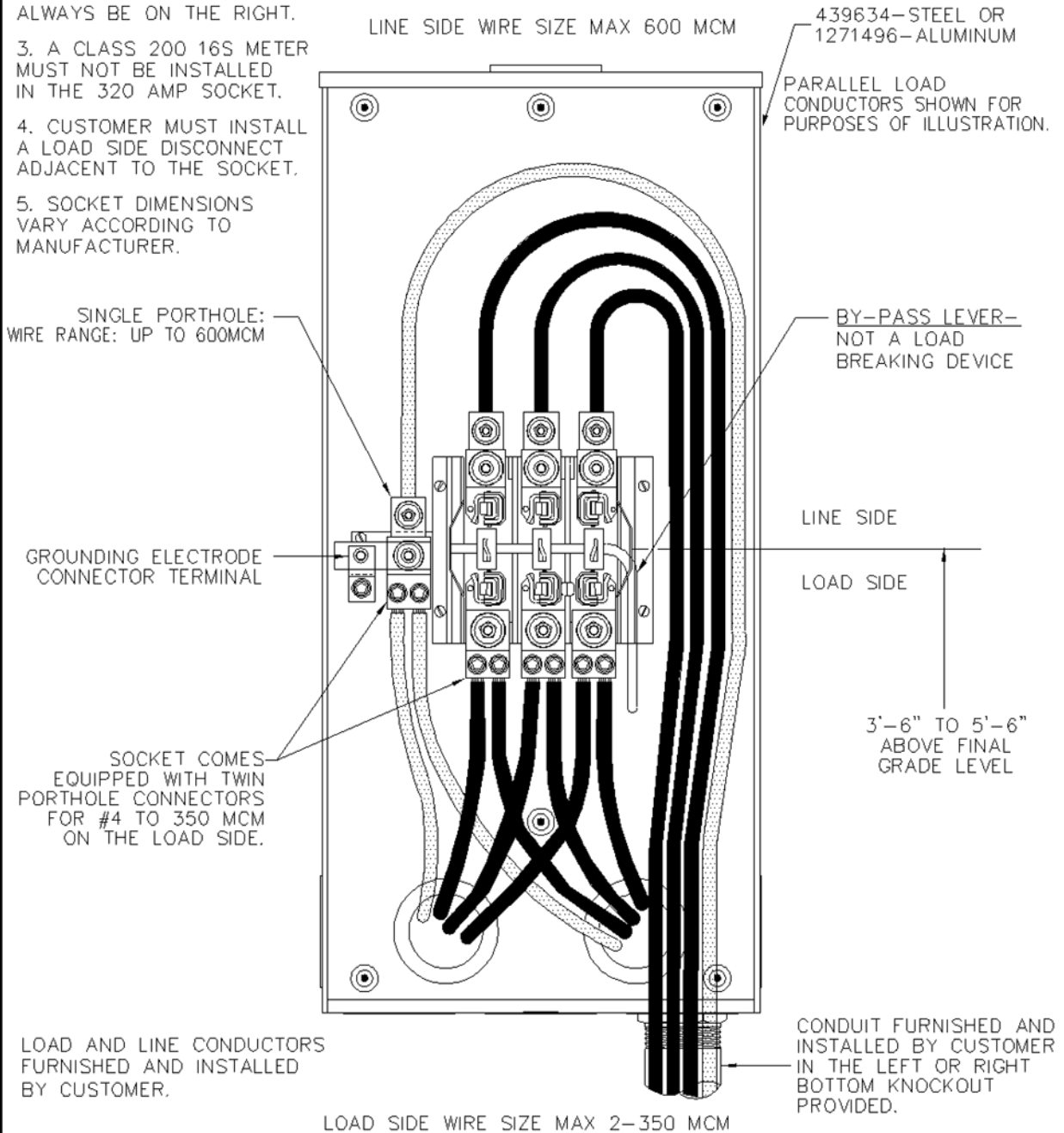
1. ALL 320 SOCKETS MUST HAVE A LEVER BY-PASS HANDLE.

2. ON 120/240 DELTA SERVICE THE HIGH LEG SHOULD ALWAYS BE ON THE RIGHT.

3. A CLASS 200 16S METER MUST NOT BE INSTALLED IN THE 320 AMP SOCKET.

4. CUSTOMER MUST INSTALL A LOAD SIDE DISCONNECT ADJACENT TO THE SOCKET.

5. SOCKET DIMENSIONS VARY ACCORDING TO MANUFACTURER.



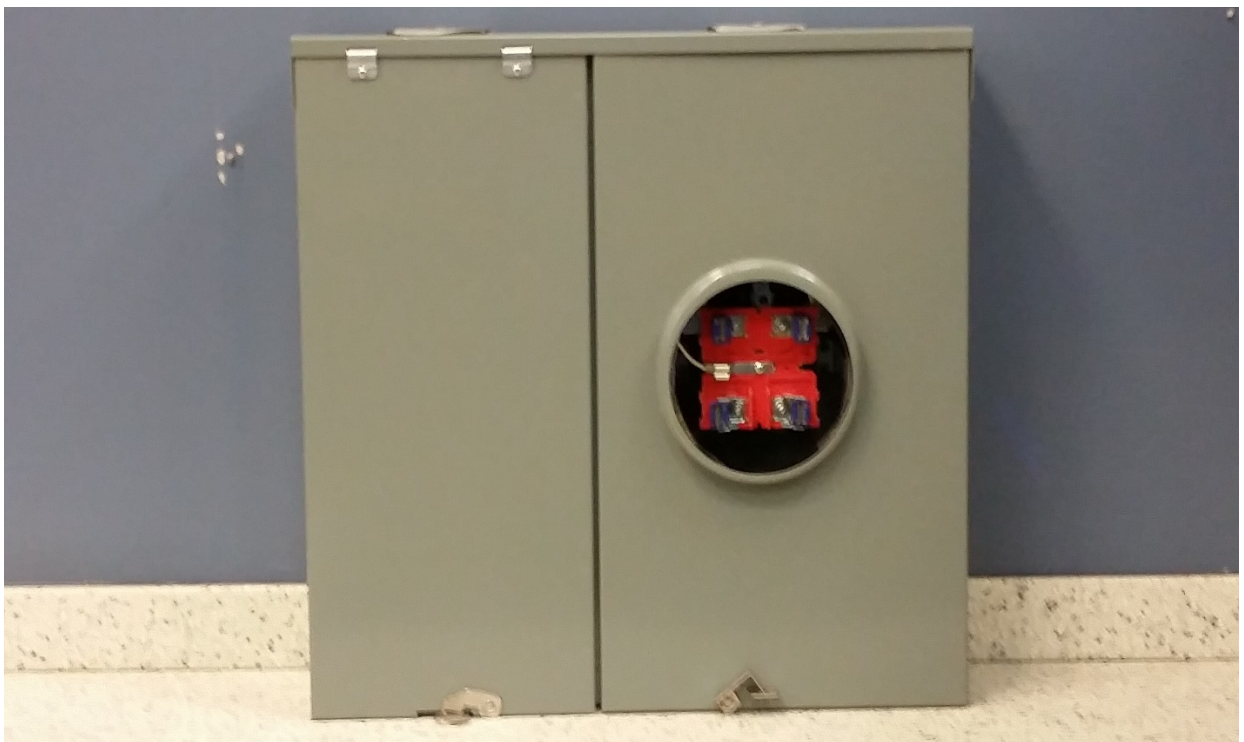
FORM 16S CLASS 320
THREE-PHASE 120/208V 4WY,
OR 120/240V 4W DELTA UD SERVICE,
SELF-CONTAINED

DRAWN BY <u>DC</u>	DATE <u>11/10/10</u>	REVISIONS <u>1/19/12, 4/10/12</u>	GEORGIA POWER COMPANY
TRACED BY <u>BH</u>	SCALE <u>NONE</u>	<u>6/27/12</u>	
APPROVED <u>BH</u>			

8.0 Overhead Customer Owned Sockets

A. General Notes:

1. Overhead services shall have 16 feet clearance over public driveways, alleys, roads, and construction areas, or any other area where truck traffic is expected.
2. Conductors, conduit, conduit straps, locking nut bushings, connectors, and miscellaneous mounting hardware furnished and installed by **Customer**.
3. All service laterals and connections shall be made by **Company** only.
6. Where **aluminum** conductors are terminated in meter sockets or other **Company** owned equipment, inhibitor of the non-grit type shall be used in each conductor connector and around the circumference of each conductor including the grounded conductor (neutral).
4. Disconnection of service laterals and removal of service connections shall be made by **Company** only.
5. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
6. All meter sockets shall be ringless.

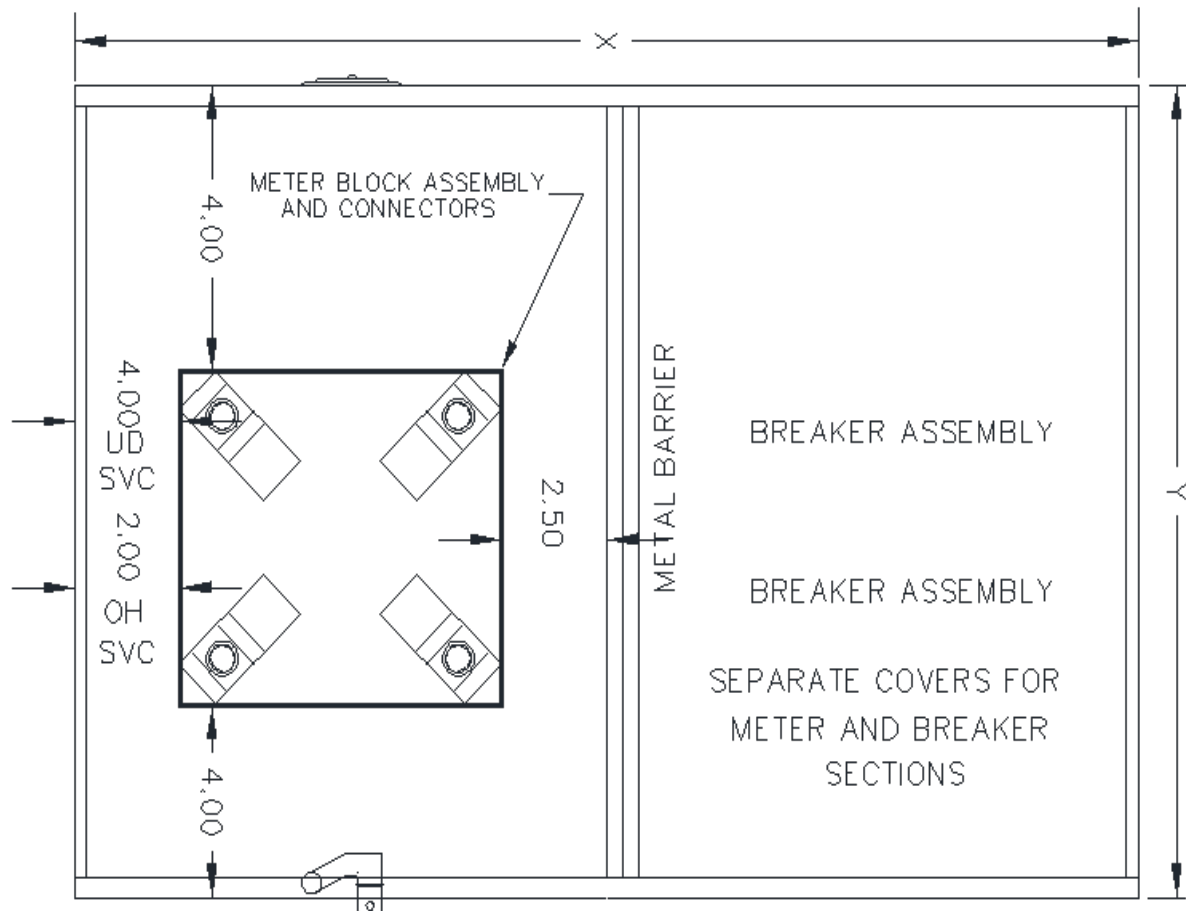


200 Amp, Customer Owned, OH Single-Phase Residential Socket

8.1 3-Wire, OH/UD Service, (120V-240V), (225A or Less), Side-by-Side Construction

CUSTOMER OWNED METER SOCKET SPACING REQUIREMENTS (SIDE BY SIDE CONSTRUCTION)

3-WIRE, OH/UD SERVICE (120/240V OR 120/208V)



Note* If the socket is used for U. D. service and is built with no obstruction to full depth on either side of block assembly area, (see bold square in drawing), min 2.50" clearance to each side is acceptable (as shown) provided 3" of unobstructed depth is also made available at both sides of socket blocks for line side conductors. ** If line side conductors can only be trained to one side of socket, side to block clearance must be 4" with 3" unobstructed depth at that side, and 2.50" block clearance to other side. Socket must accept 3" conduit at bottom. Bypass horns are not acceptable. Unit shall have 5th terminal if used on 120/208 3 wire service. Socket shall have bypass device if for commercial use.

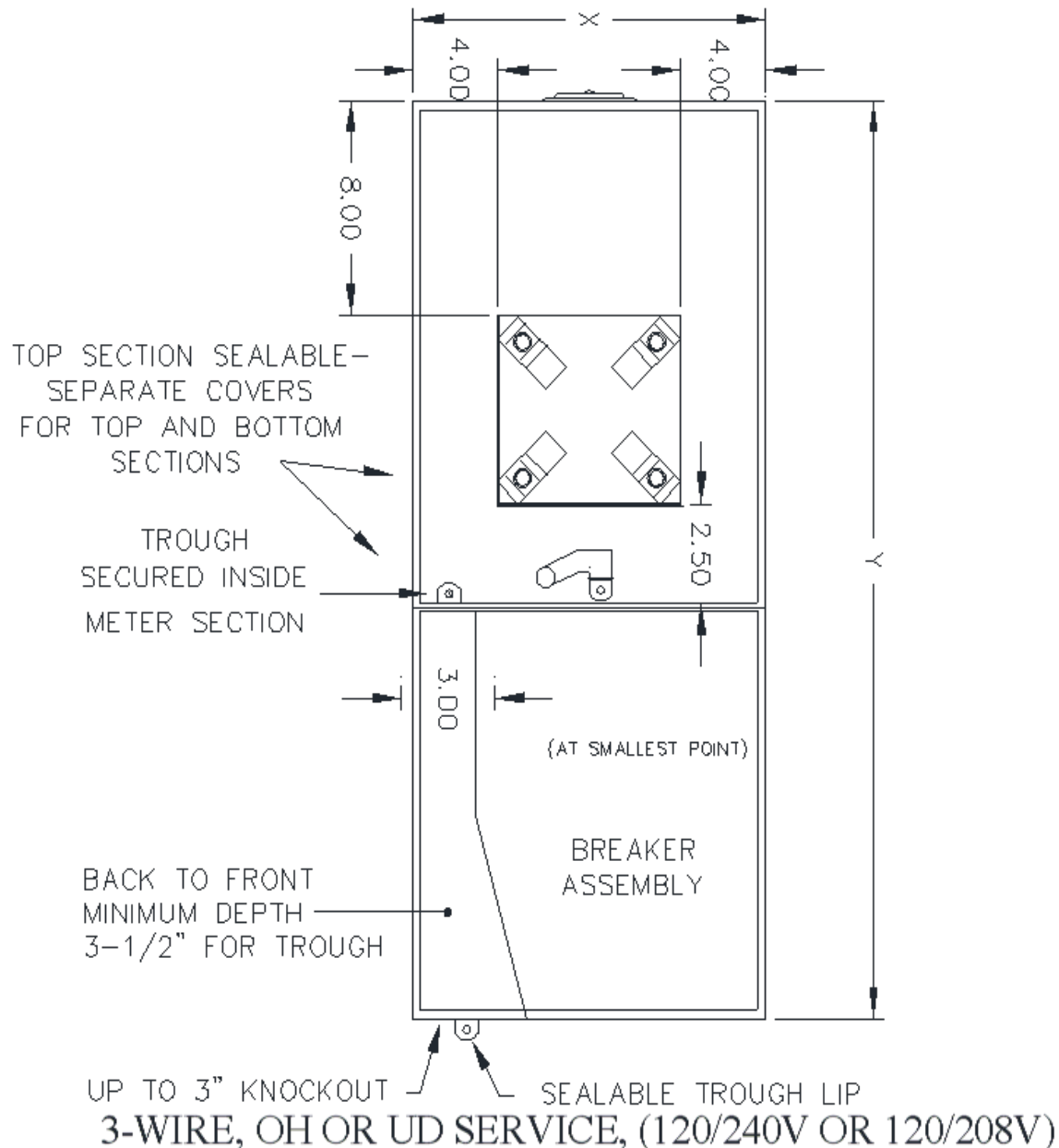
DRAWN BY BJH DATE 08/13/15
TRACED BY J.A.R SCALE NONE
APPROVED BJH

REVISIONS 01/19/07

GEORGIA POWER COMPANY

8.2 3-Wire, OH/UD Service, (120V-240V), (225A or Less), OH/UD Construction

CUSTOMER OWNED SOCKET MINIMUM SPACING REQUIREMENTS FOR OVER/UNDER CONSTRUCTION



3-WIRE, OH OR UD SERVICE, (120/240V OR 120/208V)

CUSTOMER OWNED METER SOCKET

*5TH TERMINAL REQUIRED IF USED ON 3W 120/208V SERVICE

* BYPASS DEVICE REQUIRED FOR COMMERCIAL SERVICE

*The size requirements shown do not apply to sockets or socket/breaker units designed for use on temporary service installations.

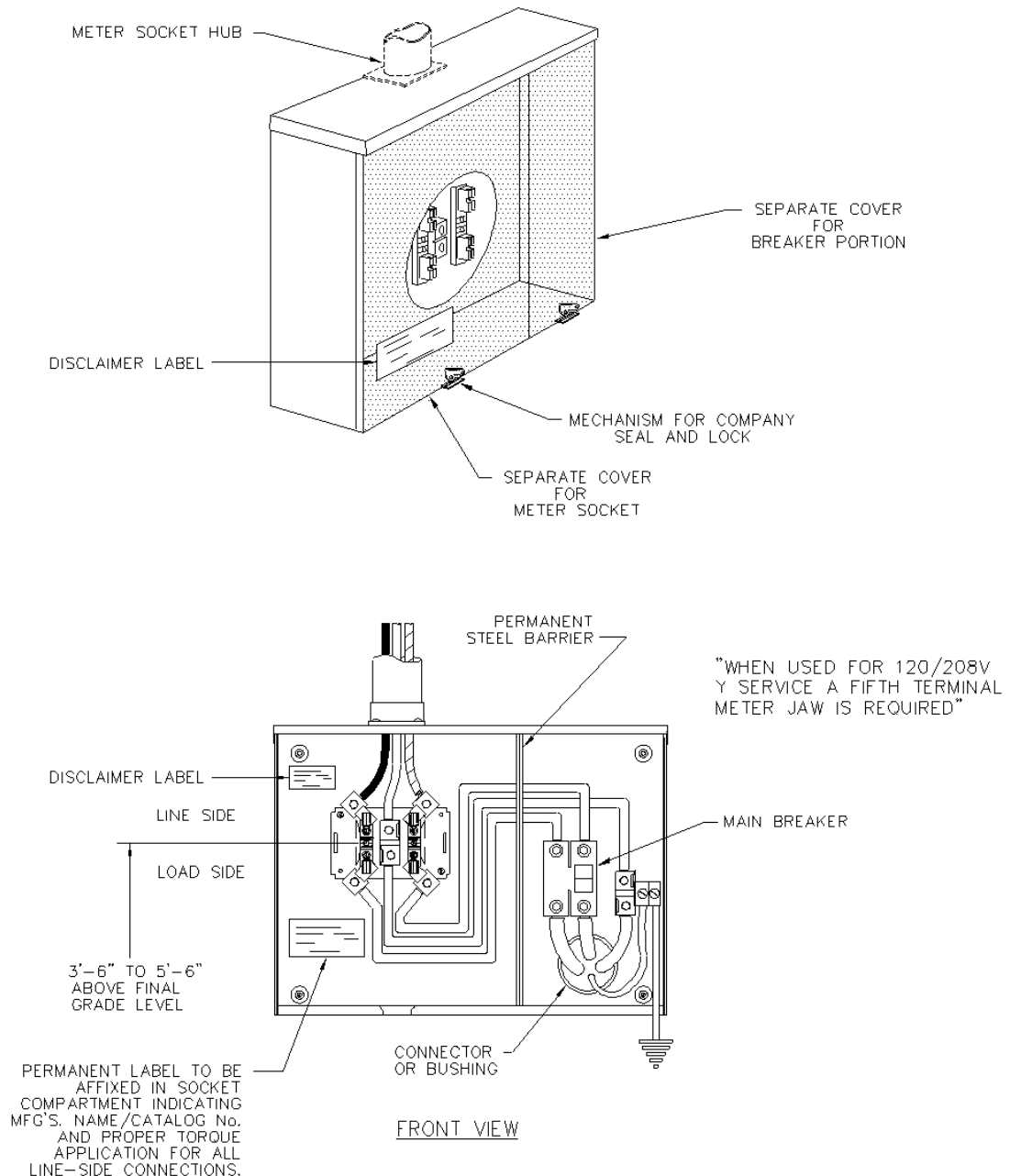
DRAWN BY BJH
TRACED BY JAR
APPROVED _____

DATE 08/13/15
SCALE NONE

REVISIONS 9/19/06.6/8/11

GEORGIA POWER COMPANY

8.3 3-Wire, OH Service, (120V-240V), (225A or Less)



NOTES:

1. CUSTOMER OWNED SOCKETS MAY VARY FROM ILLUSTRATION.
2. ALL SOCKETS USED ON COMMERCIAL APPLICATIONS SHALL HAVE A BY-PASS HANDLE.

3-WIRE, OH SERVICE, (120/240V OR 120/208V), (225A OR LESS), (CUSTOMER OWNED SOCKET)

DRAWN BY <u>A.A.W.B.</u>	DATE <u>4/1/88</u>	REVISIONS <u>12/31/92, 7/26/99,</u>	GEORGIA POWER COMPANY
TRACED BY <u>A.A.W.B.</u>	SCALE <u>NONE</u>	<u>8/24/99, 10/28/03, 5/24/04,</u>	
APPROVED _____		<u>9/16/06, 12/6/11,</u>	

9.0 Underground Customer Owned Sockets

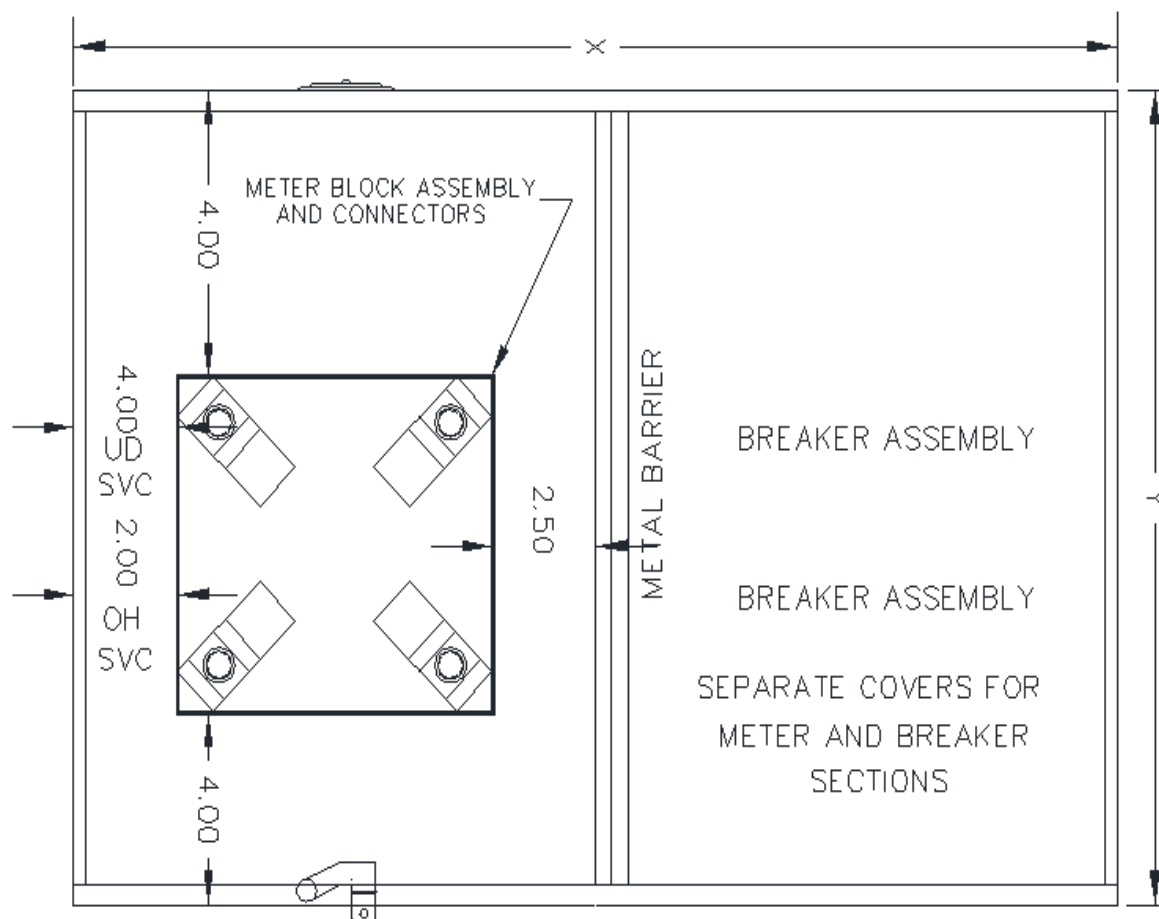
A. General Notes:

1. Weatherproof service equipment furnished and installed by the **Customer**.
2. Conduit shall be 2 inch minimum trade size and with a minimum of two (2) conduit straps, furnished and installed by **Customer**.
3. Where required, a Panel installed adjacent to home, shall be furnished by **Customer**.
4. All underground service installations and connections shall be made by the **Company** only.
7. Where **aluminum** conductors are terminated in meter sockets, inhibitor of the non-grit type shall be used in each conductor connector and around the circumference of each conductor including the grounded conductor (neutral).
5. Disconnection of all underground service installations and connections shall be made by **Company** only.
6. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
7. All meter sockets shall be ringless.



200 Amp, Customer Owned, UD Single-Phase Residential Socket

3-WIRE, OH/UD SERVICE (120/240V OR 120/208V)

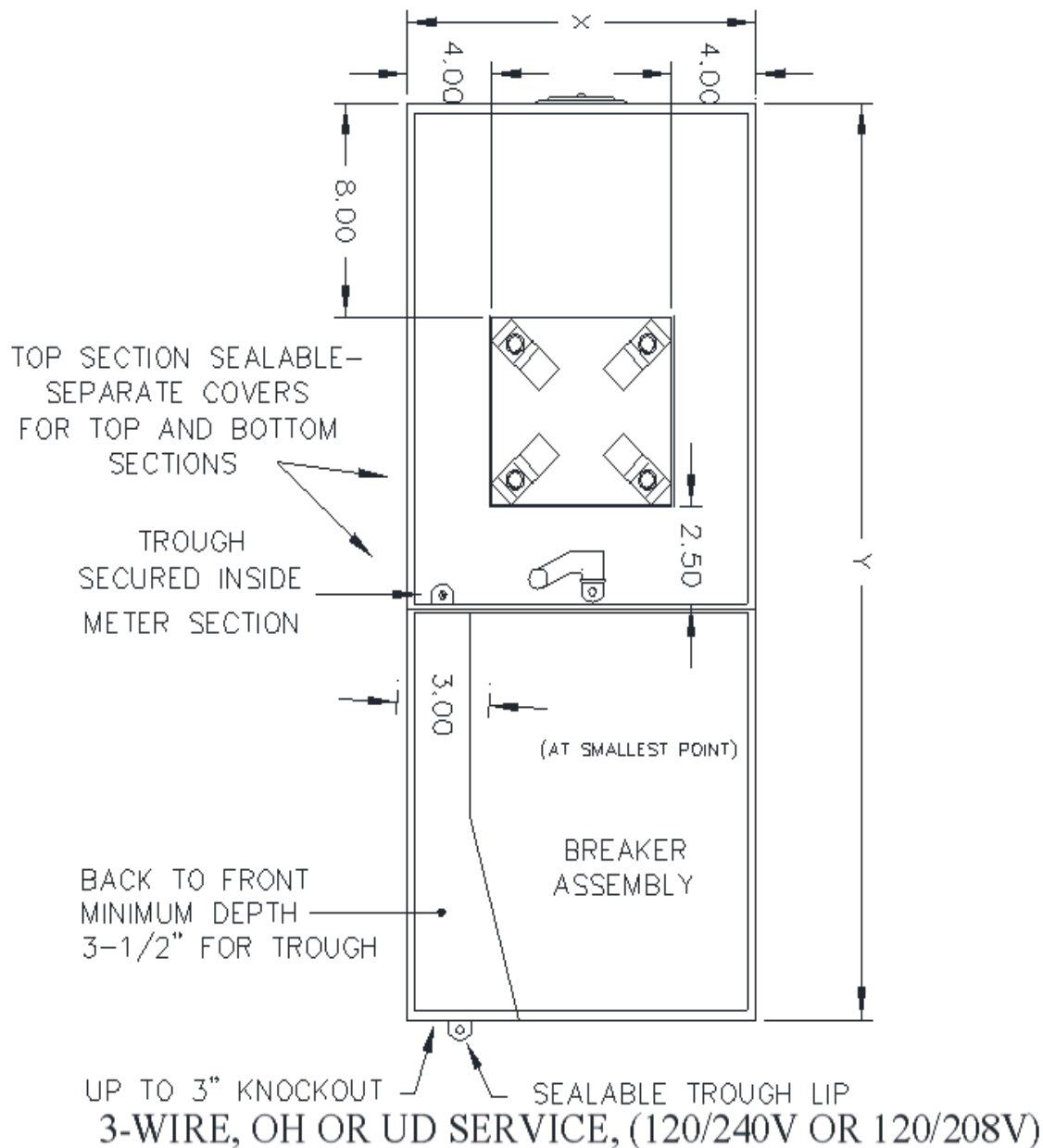


Note* If the socket is used for U. D. service and is built with no obstruction to full depth on either side of block assembly area, (see bold square in drawing), min 2.50" clearance to each side is acceptable (as shown) provided 3" of unobstructed depth is also made available at both sides of socket blocks for line side conductors. ** If line side conductors can only be trained to one side of socket, side to block clearance must be 4" with 3" unobstructed depth at that side, and 2.50" block clearance to other side. Socket must accept 3" conduit at bottom. Bypass horns are not acceptable. Unit shall have 5th terminal if used on 120/208 3 wire service. Socket shall have bypass device if for commercial use.

GEORGIA POWER COMPANY

9.2 3-Wire, OH/UD Service, (120V-240V), (225A or Less), OH/UD Construction

CUSTOMER OWNED SOCKET MINIMUM SPACING REQUIREMENTS FOR OVER/UNDER CONSTRUCTION



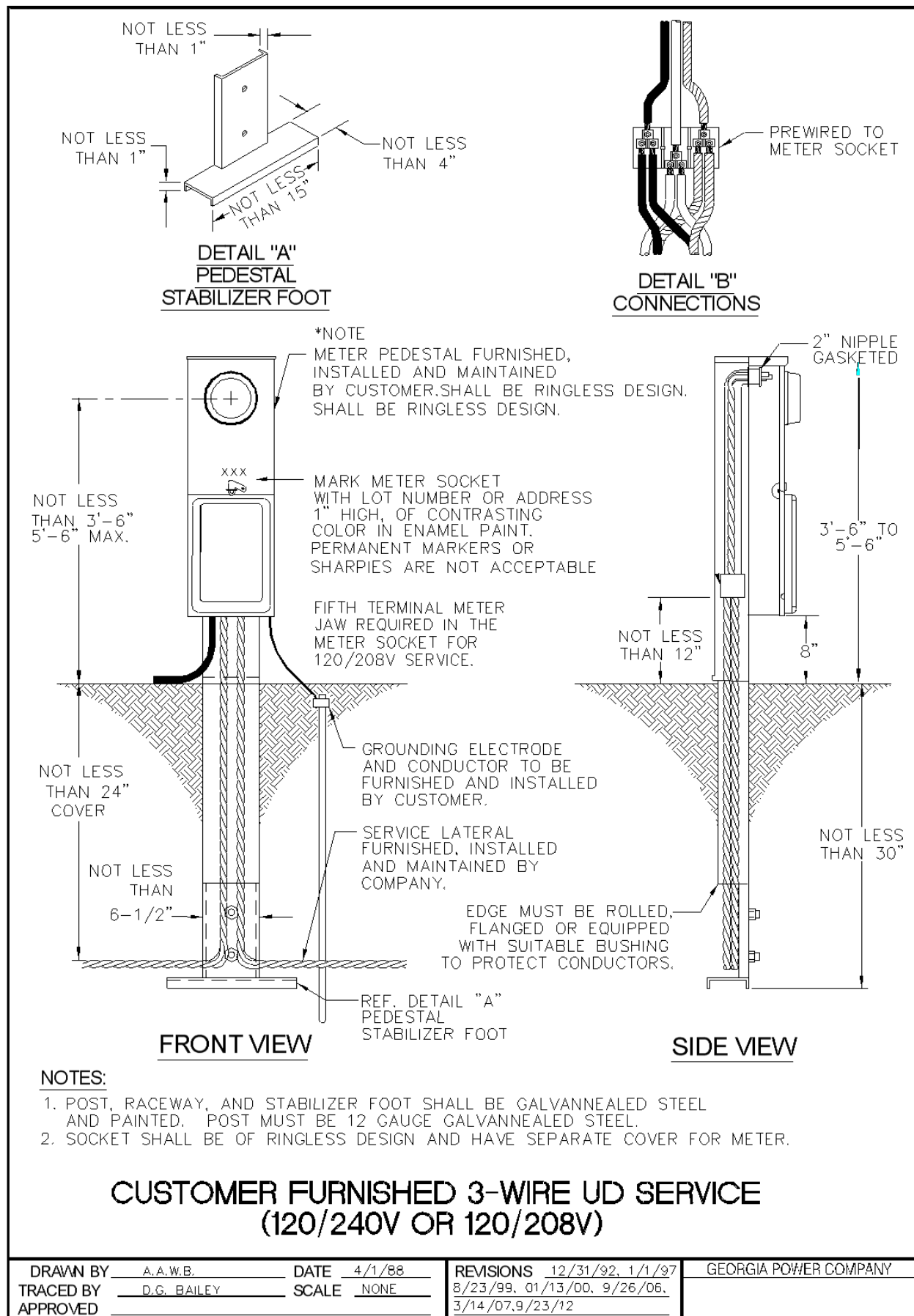
*5TH TERMINAL REQUIRED IF USED ON 3W 120/208V SERVICE

* BYPASS DEVICE REQUIRED FOR COMMERCIAL SERVICE

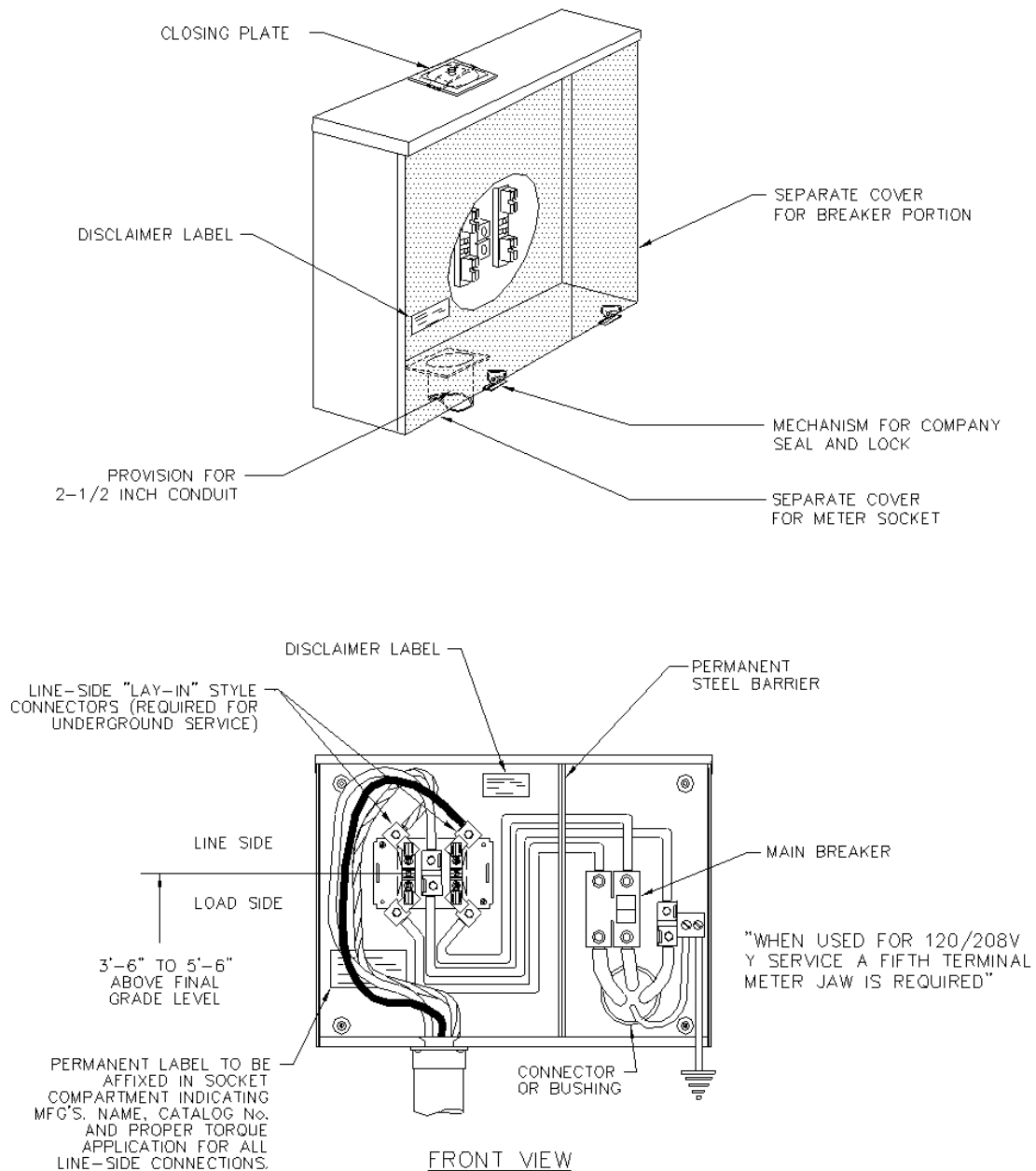
*The size requirements shown do not apply to sockets or socket/breaker units designed for use on temporary service installations.

DRAWN BY <u>BJH</u>	DATE <u>08/13/15</u>	REVISIONS <u>9/19/06,6/8/11</u>	GEORGIA POWER COMPANY
TRACED BY <u>J.A.R.</u>	SCALE <u>NONE</u>		
APPROVED _____			

9.3 3-Wire, UD Service, Customer Furnished, (120V-240V)



9.4 3-Wire, UD Service, (120V-240V), (225A or Less)



NOTES:

1. CUSTOMER OWNED SOCKETS MAY VARY FROM ILLUSTRATION.
2. ALL SOCKETS USED ON COMMERCIAL APPLICATIONS SHALL HAVE A BY-PASS HANDLE.

**3-WIRE, UD SERVICE, (120/240V OR 120/208V),
(225A OR LESS), (CUSTOMER OWNED SOCKET)**

DRAWN BY <u>A.A.W.B.</u>	DATE <u>4/1/88</u>	REVISIONS <u>12/31/92, 7/27/99,</u>	GEORGIA POWER COMPANY
TRACED BY <u>A.A.W.B.</u>	SCALE <u>NONE</u>	<u>8/23/99, 10/28/03, 5/25/04,</u>	
APPROVED _____		<u>7/2/04, 9/16/06, 12/6/11, _____</u>	

NOTES

10.0 Duplex Sockets, OH/UD

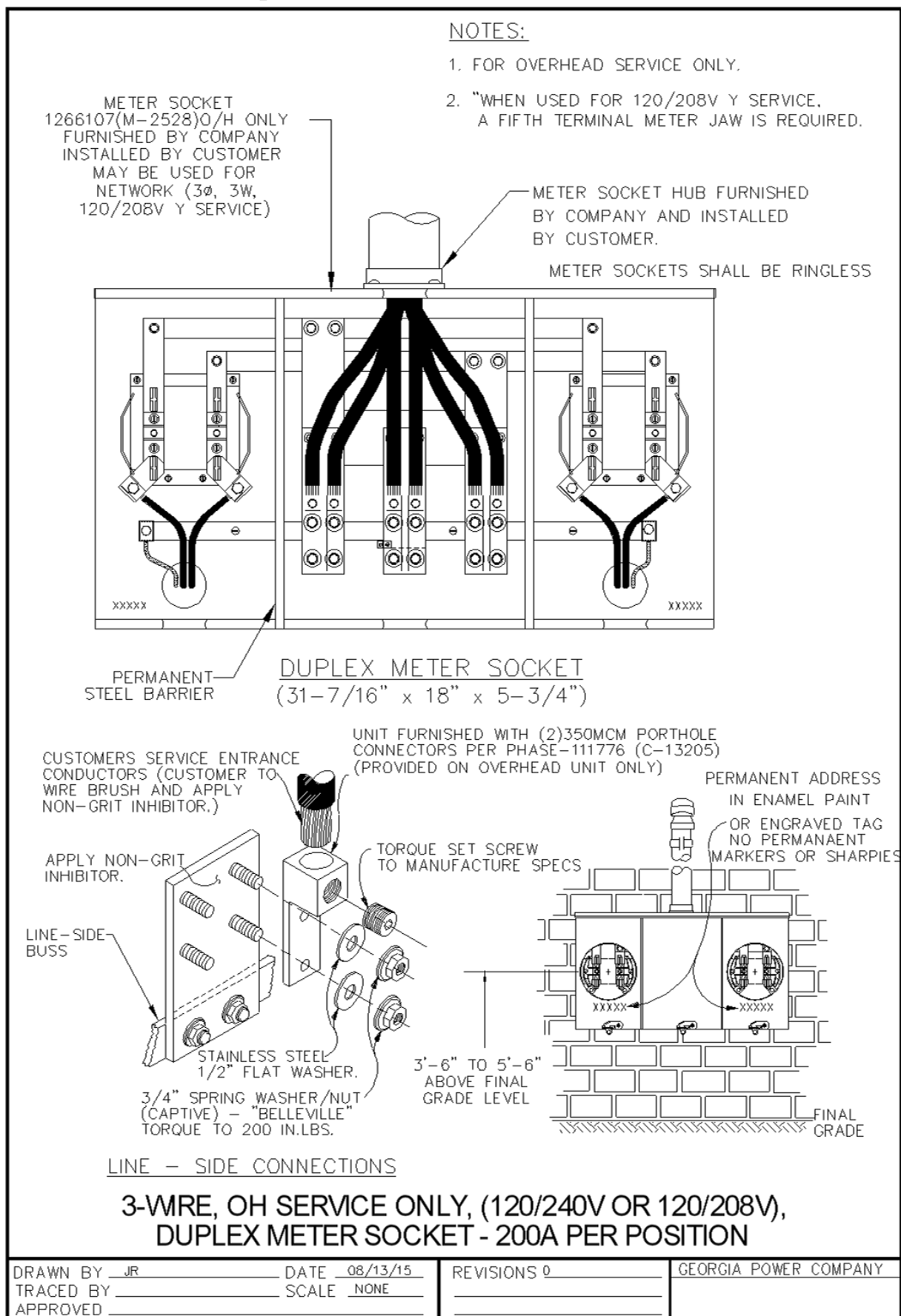
A. General Notes:

1. Service entrance line and load conductors, conduit, conduit straps, weatherhead, lock nuts, bushings, connectors and miscellaneous mounting hardware furnished by **Customer**.
2. Meter socket, meter socket hub and service drop attachment device furnished (normally) by Company and installed by **Customer**.
3. Meter and service drop furnished and installed by **Company**.
4. Meter socket and conduit shall be surface mounted.
5. Meter socket, conduit straps and weatherhead shall be securely fastened to the building using appropriate hardware for the construction type.
6. Conduit ends shall be equipped with proper bushing to protect conductors.
7. **Customer** shall wire brush all conductors, apply a non-grit type inhibitor and terminate them by torquing to manufacturer's specifications.
8. All line (including neutral) porthole connectors for these devices shall be rated for conductor sizes #6 through 350 MCM (line & neutral). Recommended connector torque shall be clearly labeled inside the socket.
9. Meter sockets shall be permanently marked, both internally and externally, with the address number in least 1 inch high height using a contrasting color with enamel paint on the inside and outside of the socket. Permanent plastic or metal labels are acceptable, at least 1 inch in height. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
10. All meters sockets shall be ringless.



200 Amp, Duplex Socket, Maximo # 1001476

10.1 3-Wire, OH Service, Duplex Socket, (120/240V or 120/208V)

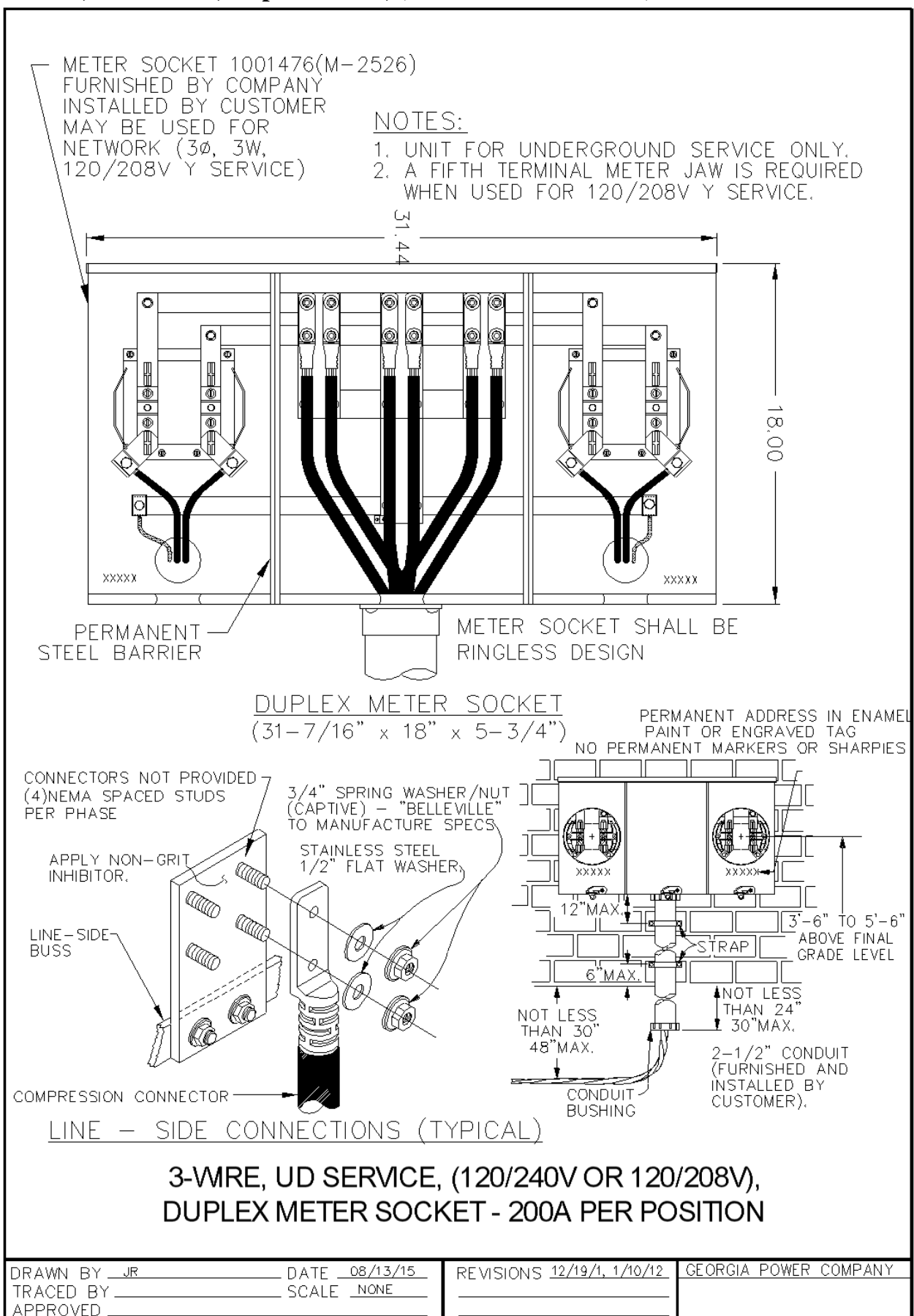


DRAWN BY JR DATE 08/13/15
 TRACED BY SCALE NONE
 APPROVED

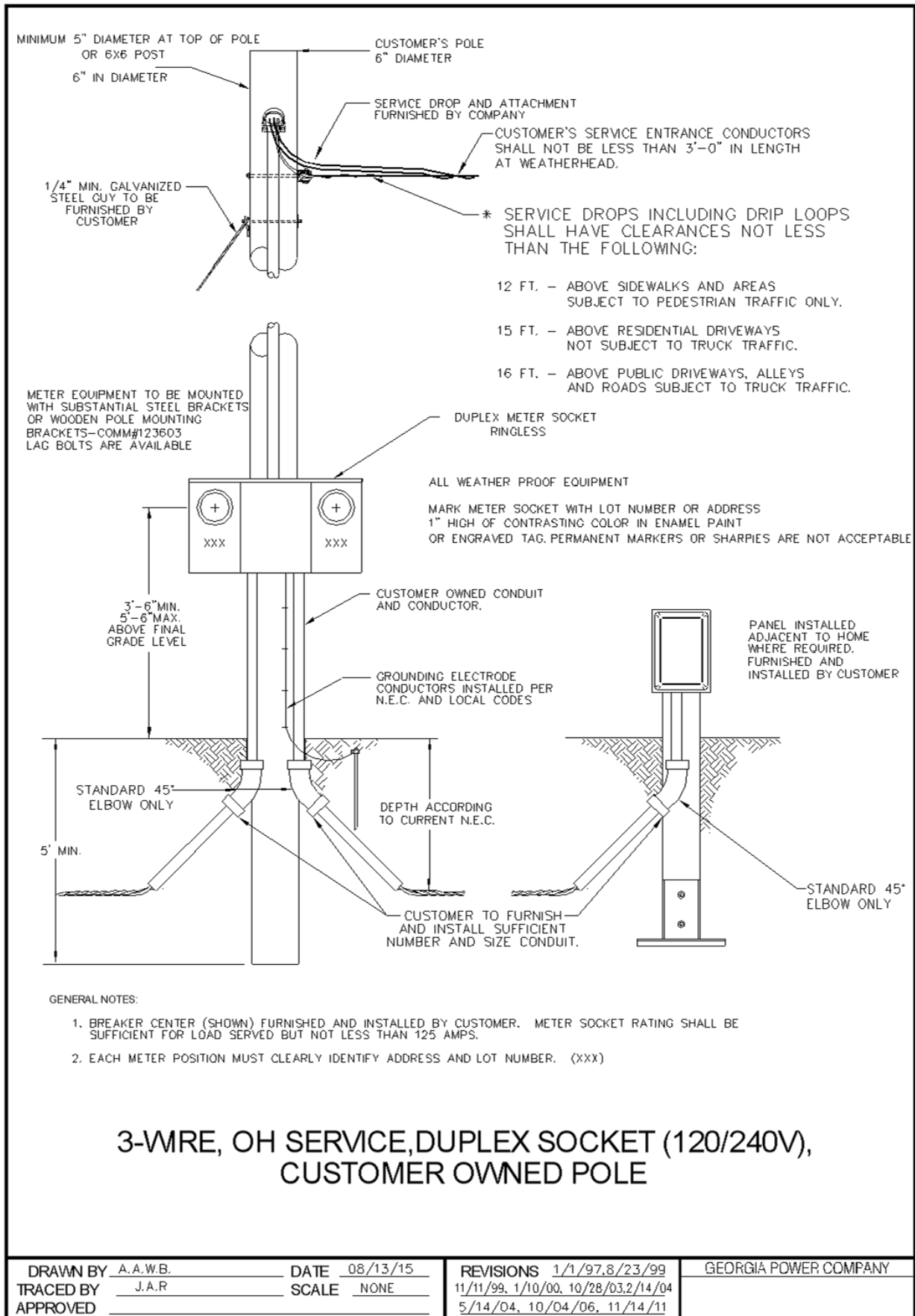
REVISIONS 0

GEORGIA POWER COMPANY

10.2 3-Wire, UD Service, Duplex Socket, (120/240V or 120/208V)



10.3 3-Wire, OH Service, Duplex Socket, (120/240V), (225A or Less)



11.0 Multifamily Single Phase Section

11.1 3-Wire, OH Service, (120V-240V), (2-6 Positions)

A. General Notes:

1. Requirements for the metering center are the same as underground except the line side connection arrangement is not specified. All service entrance conductors and connectors shall be furnished and installed by Customer.
2. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
3. Meter Sockets, Entrance Doors, and Breaker Panels shall be marked with a Permanent address.
4. All meter sockets shall be ringless.



150 Amp, OH Multi-Gang Socket, 2-6 Positions

11.2 3-Wire, UD Service, (120V-240V), (2-6 Positions)

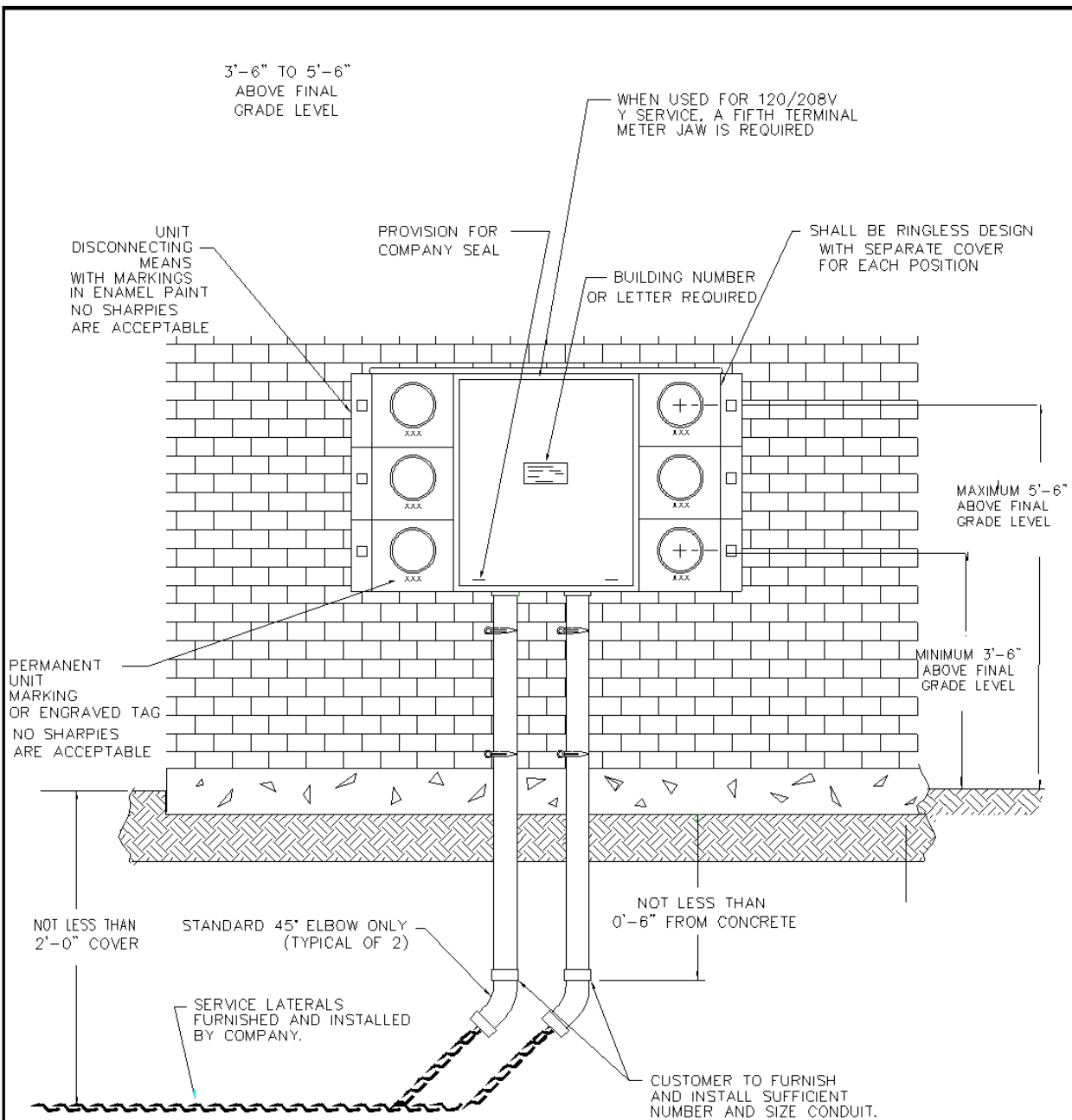
A. General Notes:

1. The device shown may be used when the inspection authority having jurisdiction requires the installation of a service disconnecting means adjacent to the meter.
2. The **Customer** shall install a grounded **Fifth Terminal Meter Jaw** in this equipment if the supply source is 120/208V WYE service.
3. Line side studs shall be equipped with nut, flat washer, and pressure maintaining (as a “Belleville”) spring washer.
4. Where **Customer** furnished connectors are used, they shall meet the requirements of U.L. “486B”.
5. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
5. Entrance Doors, and Breaker Panels shall be marked with a Permanent address.
6. Meter socket and conduit shall be surface mounted.
7. Metering center and conduit straps shall be securely fastened to the building using appropriate hardware for the construction type.
8. Minimum Conduit Requirements:
 - (a) Two Positions: (1) 2½ inch conduit.
 - (b) Three or Four Positions: (2) 2½ inch or (1) 3 inch conduit.
 - (c) Five or Six Positions: (3) 2½ inch, or (1) 3 inch and (1) 2½ inch or (1) 4 inch conduit.
9. All meter sockets shall be ringless.



150 Amp, UD Multi-Gang Socket, 2-6 Positions

3-Wire, UD Service, (120V-240V), (2-6 Positions)



NOTES:

1. GEORGIA POWER COMPANY WILL NOT TERMINATE SERVICE LATERALS DIRECTLY TO CUSTOMER OWNED BREAKER OR FUSED DISCONNECT. CONTRACTOR SHALL PROVIDE DEDICATED LINE SIDE TERMINATING LUGS
2. ALL SOCKETS SHALL BE RINGLESS DESIGN.
3. ALL SOCKETS USED ON COMMERCIAL APPLICATIONS SHALL HAVE A BY-PASS HANDLE.

**3-WIRE, UD, (120/240V OR 120/208V),
(2-6 POSITIONS), (CUSTOMER OWNED)**

DRAWN BY <u>A.A.W.B.</u>	DATE <u>10/24/80</u>	REVISIONS <u>4/1/88, 7/14/89,</u>	GEORGIA POWER COMPANY
TRACED BY <u>A.A.W.B.</u>	SCALE <u>NONE</u>	<u>12/31/92, 8/20/99, 1/12/00, 2/17/02,</u>	
APPROVED _____		<u>5/14/04, 5/25/04, 9/24/06</u>	

11.3 3-Wire, UD Service, (120V-240V), (Above 6 Pos.)

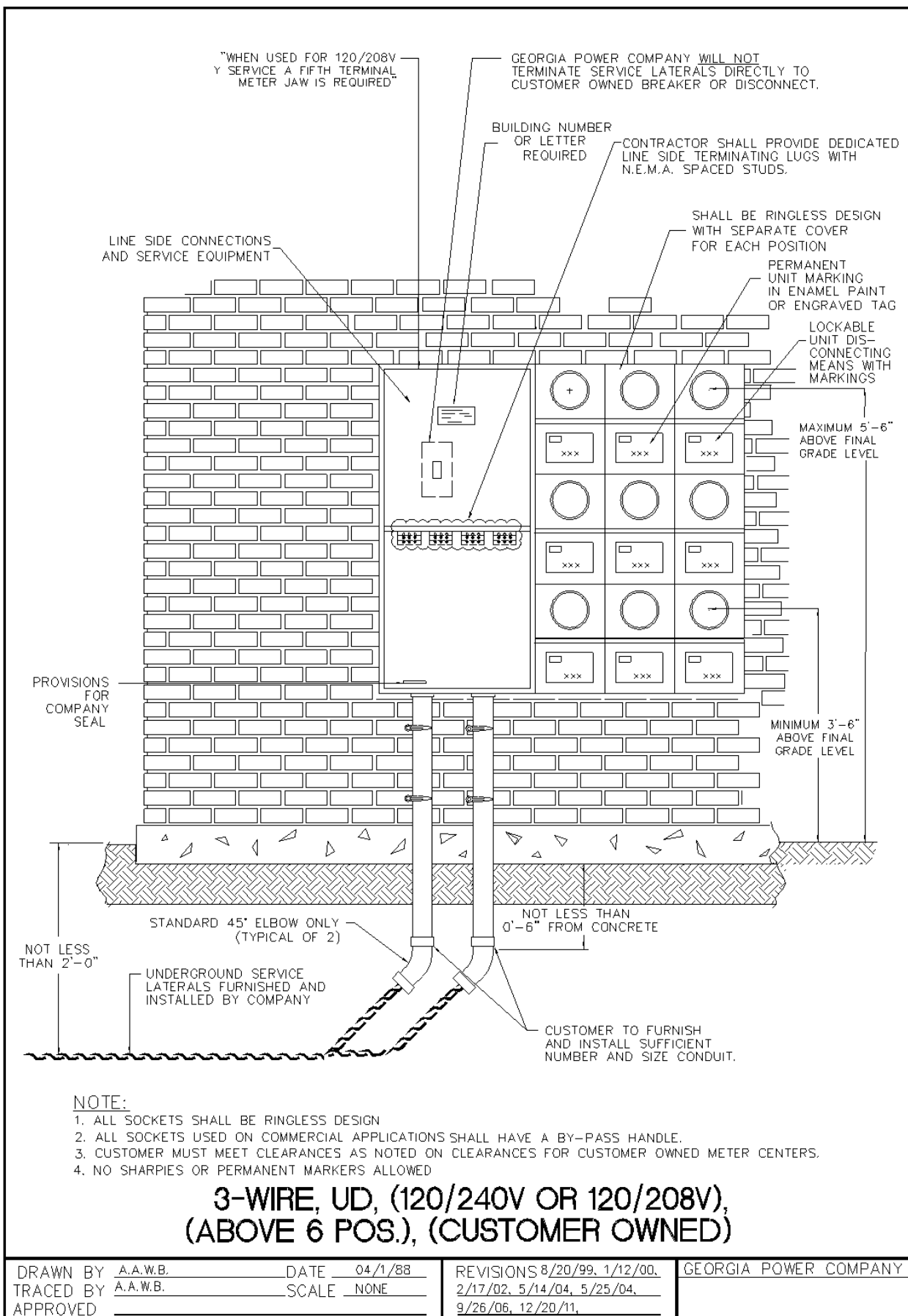
A. General Notes:

1. The device shown may be used when the inspection authority having jurisdiction requires the installation of a service disconnecting means adjacent to the meter.
2. The **Customer** shall install a grounded **Fifth Terminal Meter Jaw** in this equipment if the supply source is 120/208V WYE service.
3. Requirements regarding accessibility to equipment and unobstructed working space adjacent to metering equipment are specified in [Section 4.1](#), and [Section 4.2](#).
4. Where **Customer** furnished connectors are used, they shall meet the requirements of U.L., “486 B”.
5. Torqueing requirements shall be clearly marked in the line side compartment.
6. Meter socket and conduit shall be surface mounted.
7. Metering center and conduit straps shall be securely fastened to the building using appropriate hardware for the construction type.
8. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
9. Entrance Doors, and Breaker Panels shall be marked with a Permanent address.
10. All meter sockets shall be ringless.

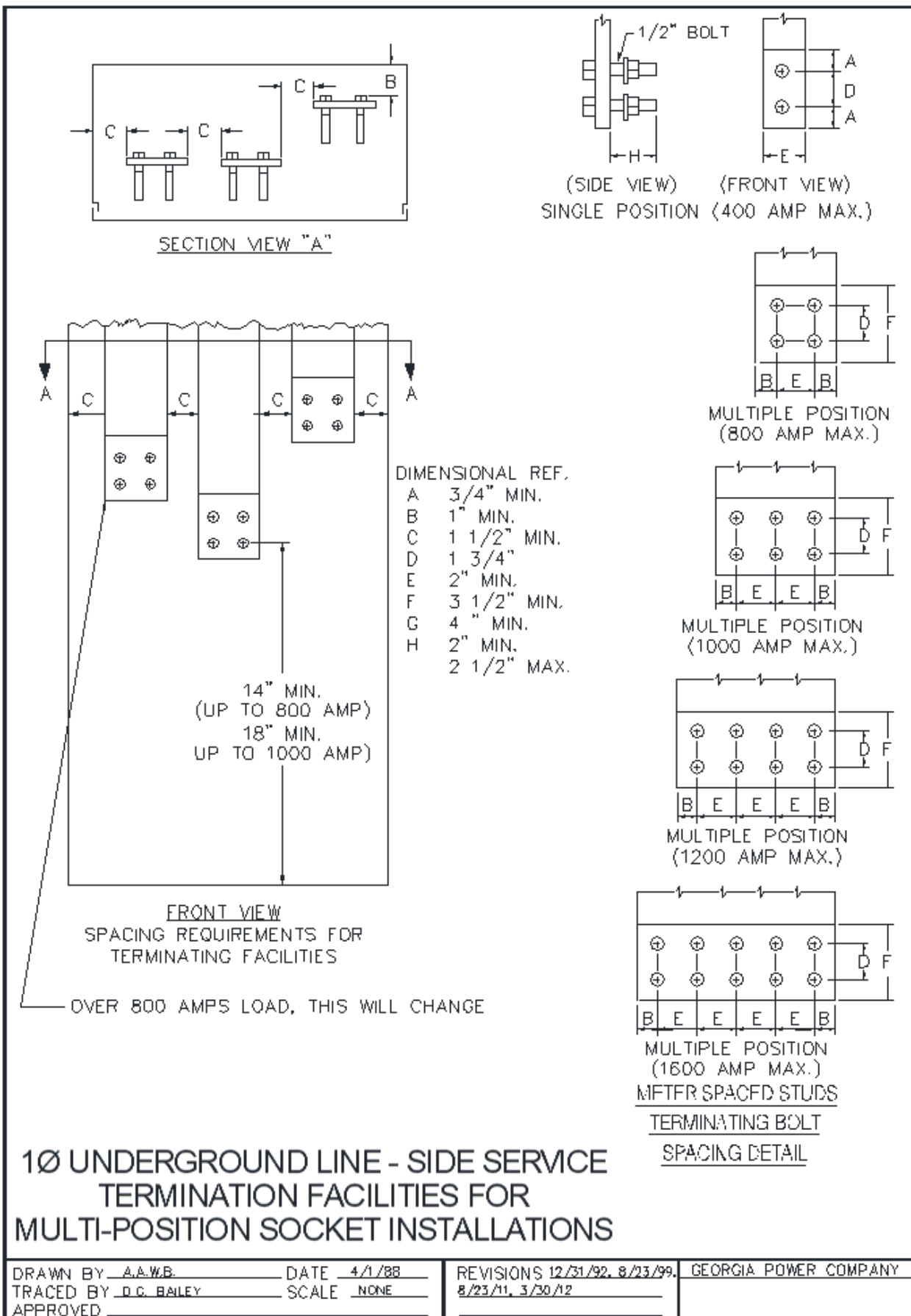


200 Amp, UD Multi-Gang Socket, Above 6 Positions

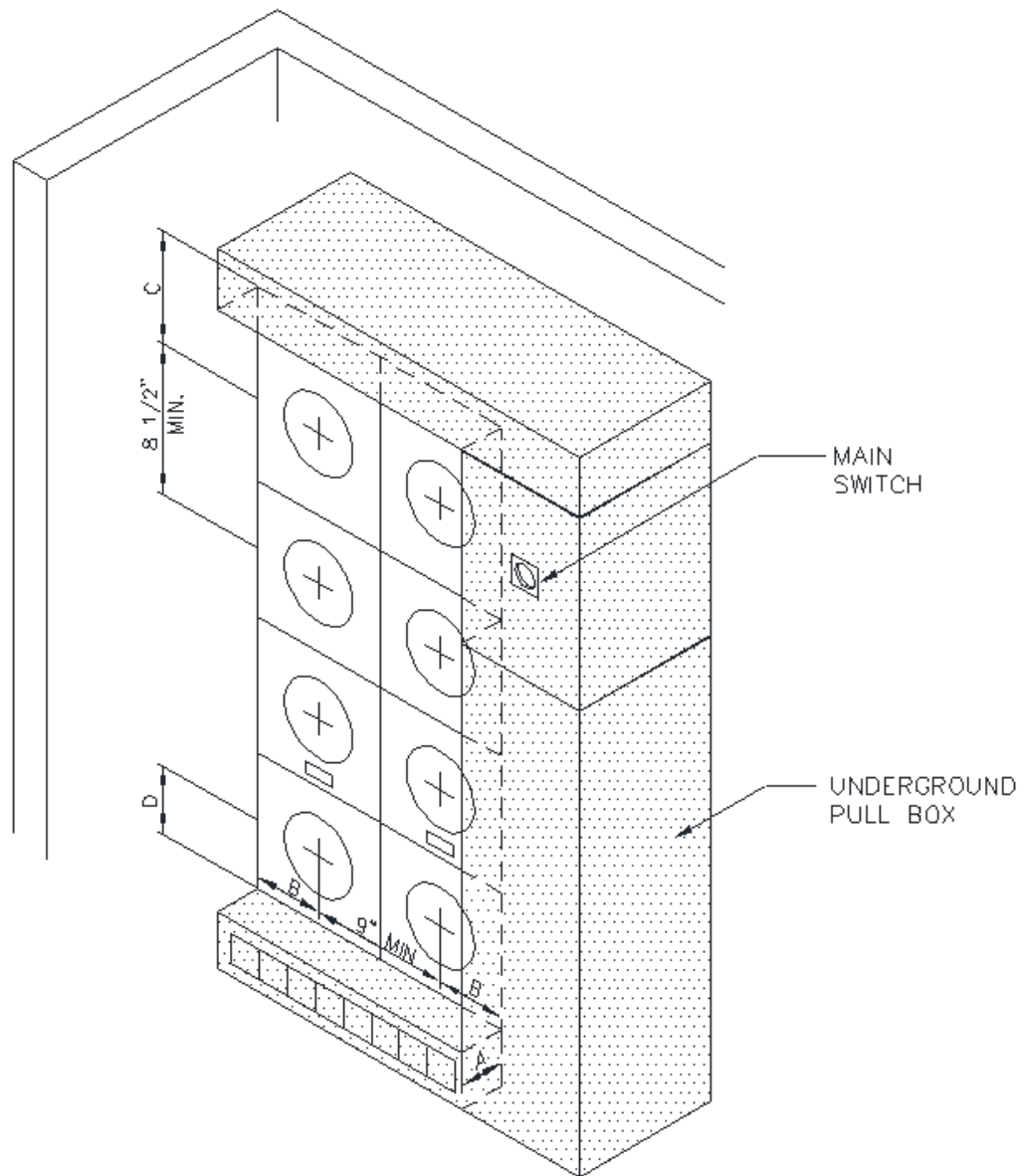
3-Wire, UD Service, (120V-240V), (Above 6 Pos.)



11.4 1-Phase, UD Service, Termination Facilities for Multi-Position Socket Installations



11.5 Clearance for Customer Owned Meter Centers



DIMENSIONS - INCHES			
"A" PROTRUSIONS	"B" MIN.	"C" MIN.	"D" MIN.
UP TO 11"	6"	4"	11"
11" TO 16"	12"	10"	11"

NOTES:

1. DIMENSIONS "B", "C" AND "D" SHALL BE MAINTAINED ALONG WITH UNOBSTRUCTED WORKSPACE IN FRONT OF METERS EVEN WITH CABINET DOORS FULLY OPENED, OR TO THE REQUIRED STOP POINT (90% FOR EXAMPLE).
2. UNOBSTRUCTED WORKSPACE REQUIREMENTS SHALL BE THE SAME AS SHOWN IN CLEARANCE DRAWINGS.
3. ALL SOCKETS USED ON 208Y/120V SERVICE SHALL HAVE FIFTH TERMINALS
4. ALL SOCKETS USED ON COMMERCIAL APPLICATIONS SHALL HAVE BY-PASS HANDLES

CLEARANCE FOR CUSTOMER OWNED METER CENTERS

DRAWN BY <u>A.A.W.B.</u>	DATE <u>4/1/88</u>	REVISIONS <u>12/31/92, 8/23/99,</u>	GEORGIA POWER COMPANY
TRACED BY <u>D.G. BAILEY</u>	SCALE <u>NONE</u>	<u>01/12/00, 09/26/06, 3/14/07</u>	
APPROVED			

NOTES

12.0 4-Wire, 3-Phase, Transockets, OH/UD Service

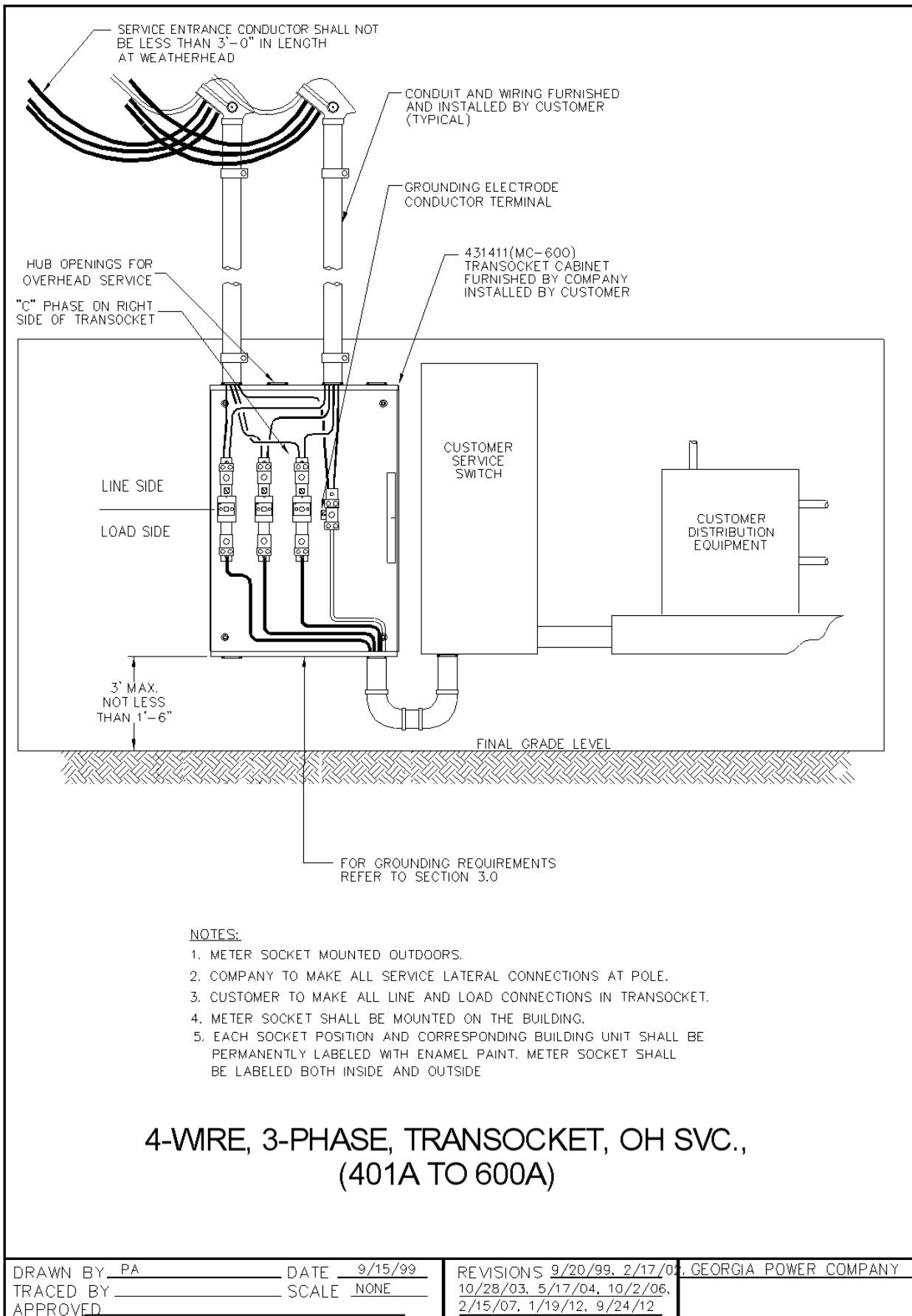
A. General Notes:

1. This arrangement may be utilized for services above 401 amperes and up to 600 amperes.
2. Service drop and meter furnished and installed by **Company**.
3. Transocket furnished by **Company** and installed by **Customer**.
4. On a Delta service the phase having the highest voltage (high leg) shall be in the right hand or “C” phase position in the transocket.
5. If the Transocket is mounted to a **Customer** pole, it shall be mounted with equipment furnished by **Company** and installed by **Customer**.
6. Meter socket and conduit strap shall be surface mounted.
7. Special permission may be granted to mount a Transocket on pedestals. It shall be mounted on two pedestals, placed side by side. Pedestals shall be 2 inch x 6 inch x ¼ inch galvanized steel channel, 8 feet in length. Pedestals shall be set in at least 24 inches of concrete.
8. **Customer** shall wire brush all conductors, apply a non-grit type inhibitor, and terminate them by manufacturer’s specification.
9. **Customer** is responsible for line and load connections in Transocket as to manufacturer specification listed inside.
10. **Company** will check torque on all connectors prior to setting meters.
11. Meter sockets shall be permanently marked, both internally and externally, with the address number in at least 1 inch high letters and/or numbers using enamel paint in a contrasting color. Plastic or metal labels of at least 1 inch in height are also acceptable. **Permanent Ink Markers, such as Sharpies, are not acceptable.**

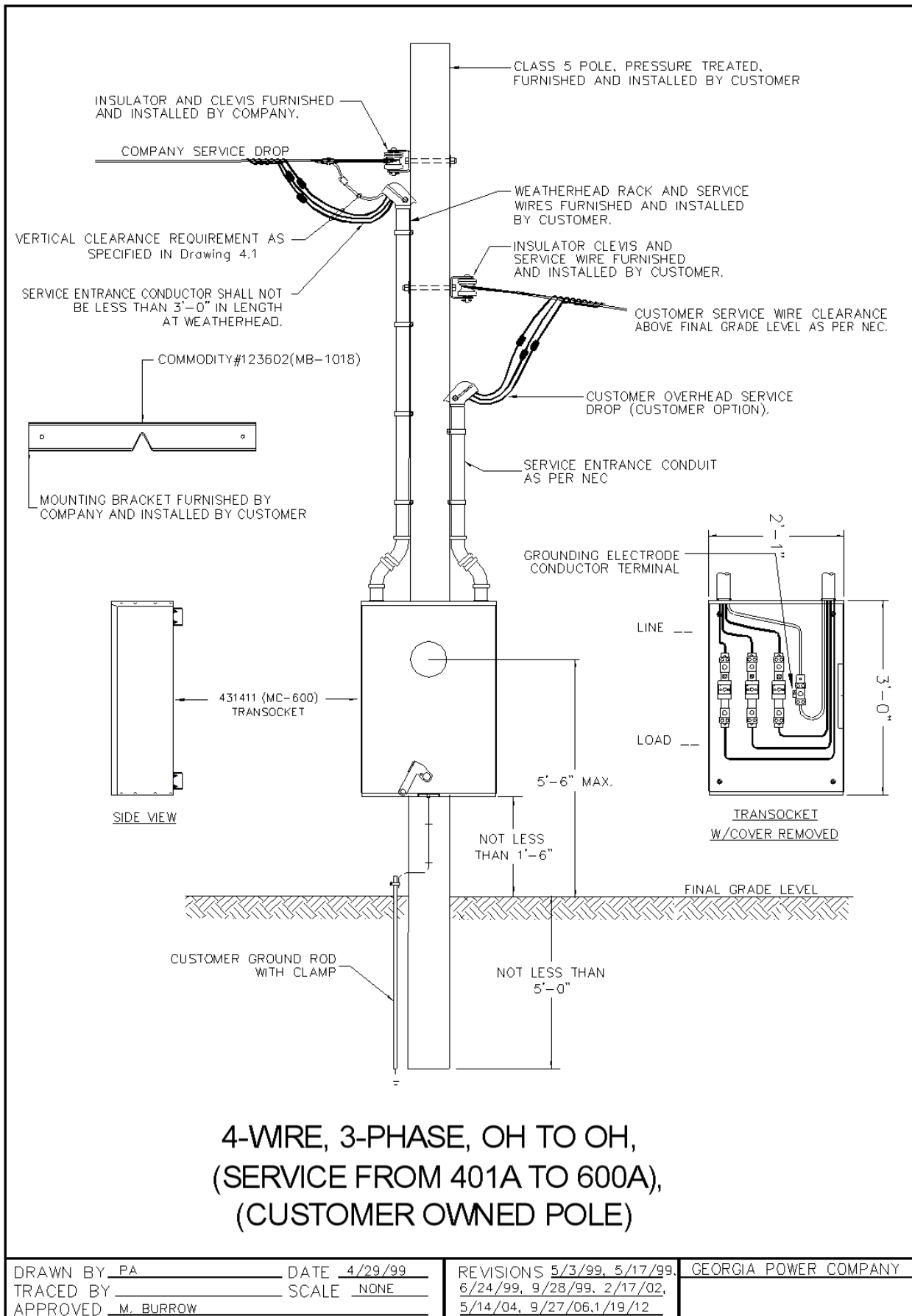


401-600 Amp, 3-Phase Transocket, Maximo # 431411

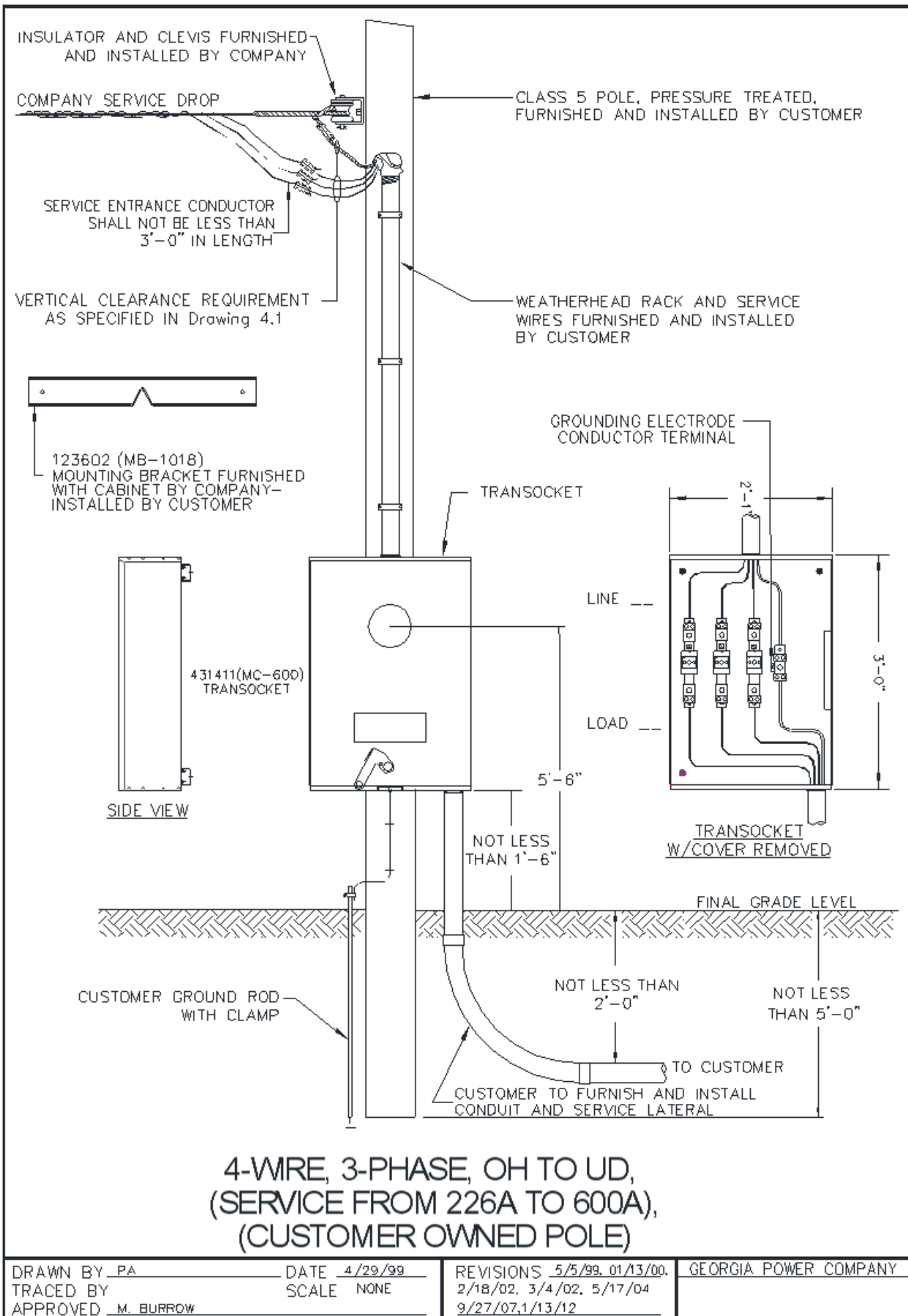
12.1 4-Wire, 3-Phase, Transocket, OH Service (401A to 600A)



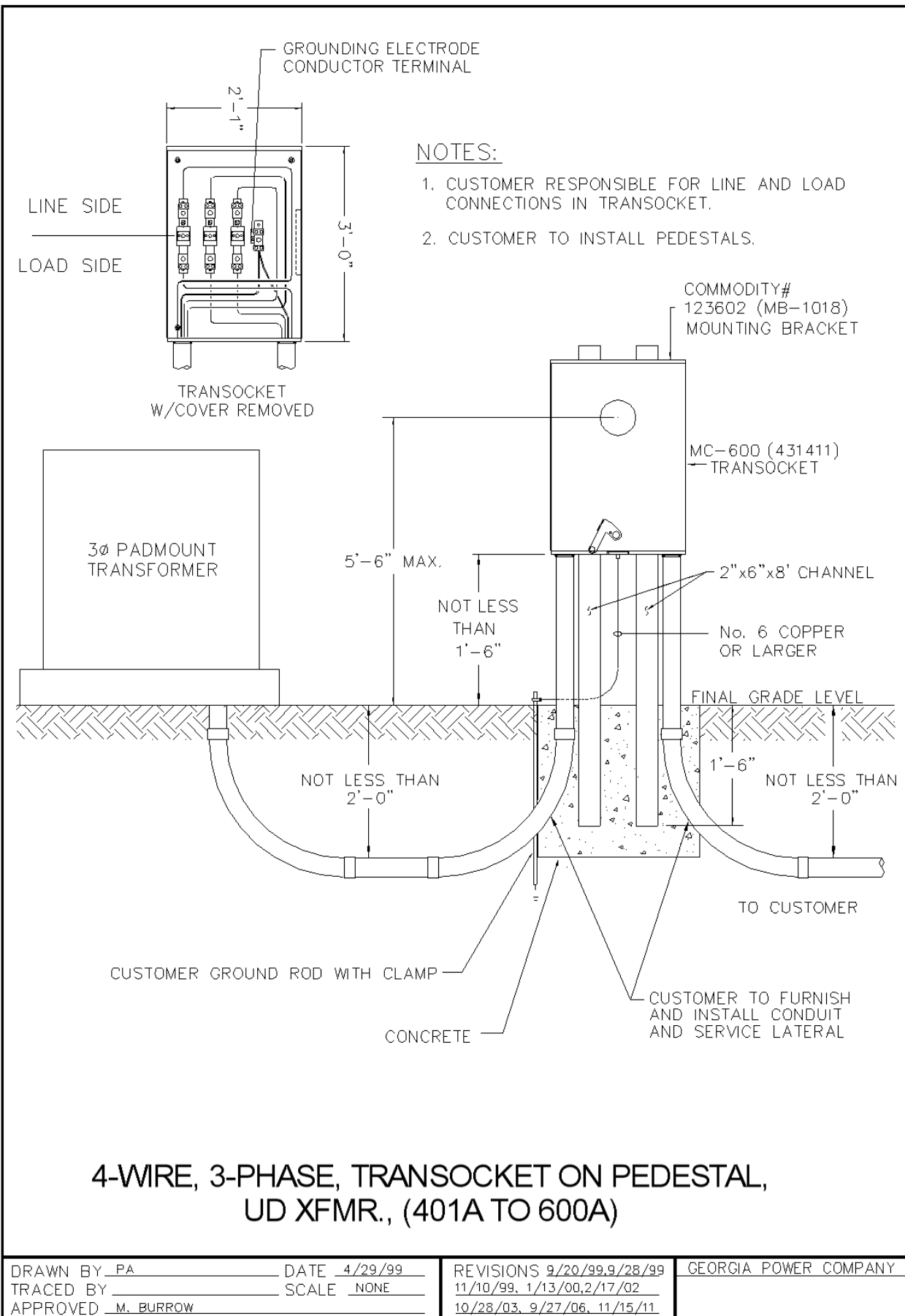
12.2 4-Wire, 3-Phase, OH to OH, Customer Pole



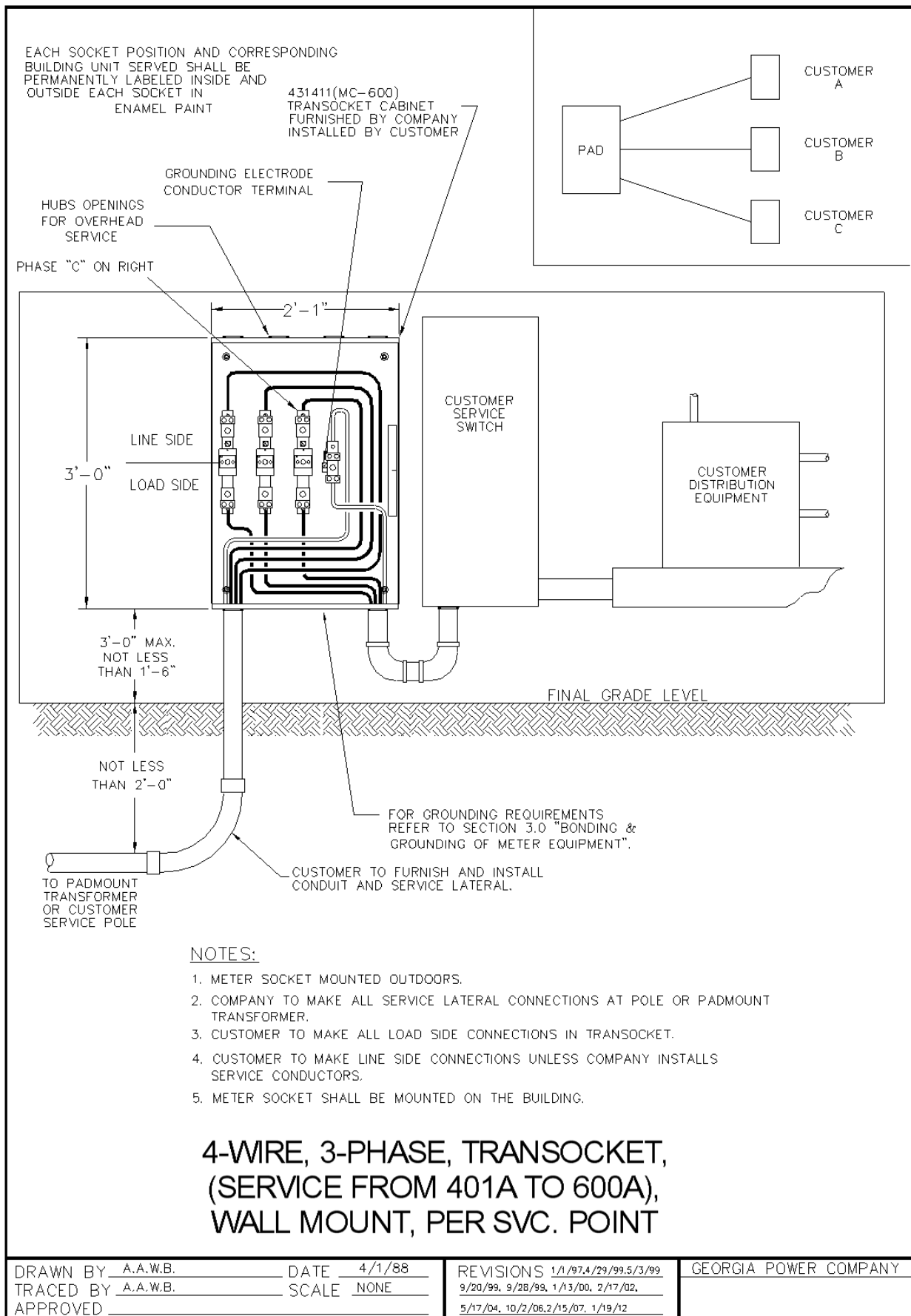
12.3 4-Wire, 3-Phase, OH to UD, Customer Pole



12.4 4-Wire, 3-Phase, CT Transocket, on Pedestal



12.5 4-Wire, 3-Phase, Transocket, (400A – 600A)



13.0 Renewable Generation

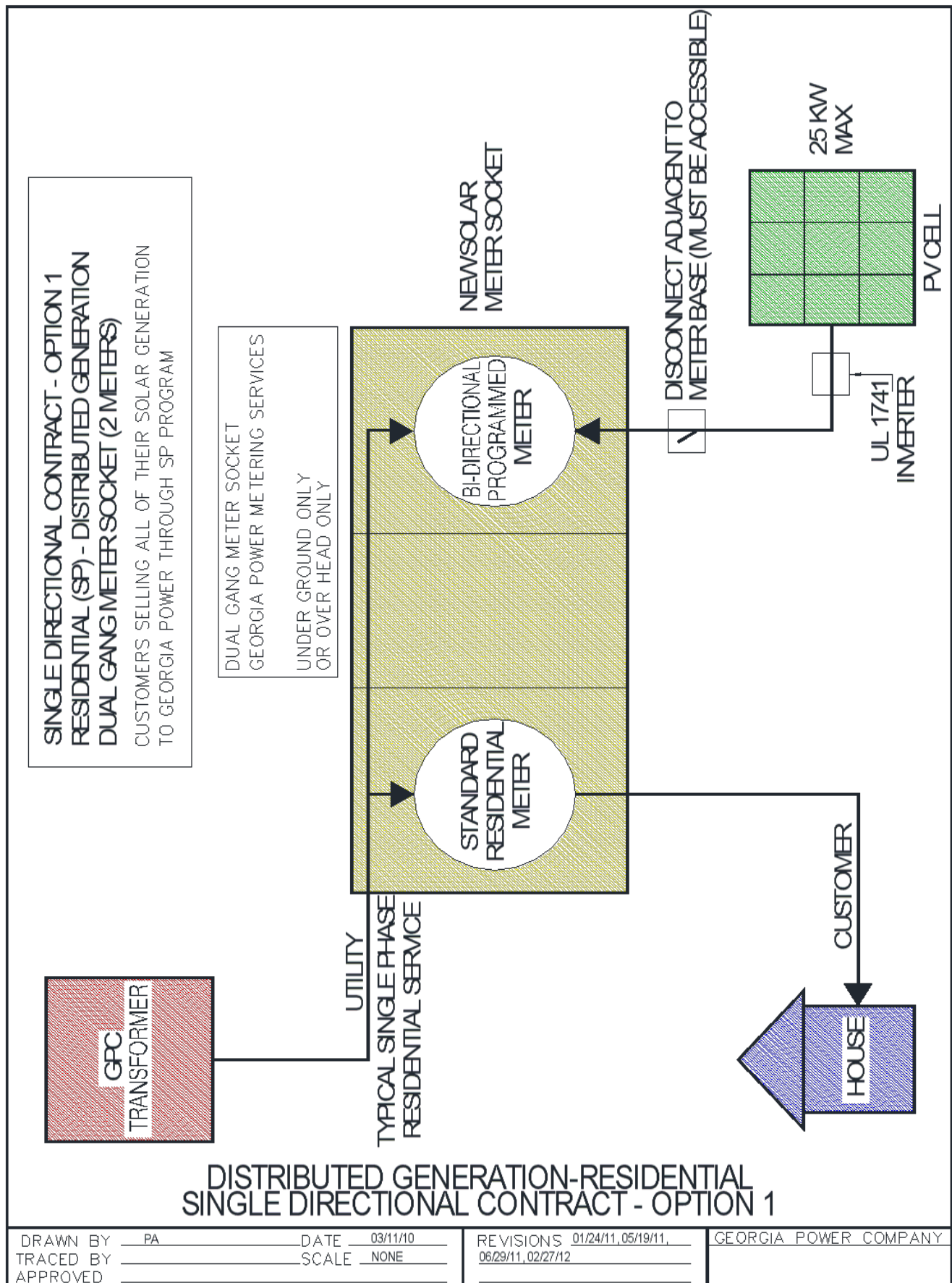
A. General Notes:

1. The following requirements address distributed generation locations where electricity is being generated by solar photovoltaic (PV) units. Drawings [13.1](#) through [13.7](#) show the distributed generation options for metering residential and commercial solar installations.
2. All solar inverters must meet UL1741 testing requirements or be UL1741 certified. All installations shall be verified by a qualified **Company** employee.
3. A photovoltaic system disconnecting means shall be installed between the inverter and meter, immediately adjacent to the meter and readily accessible to **Company** personnel. **The disconnecting means shall be lockable and provide a visual air gap.**

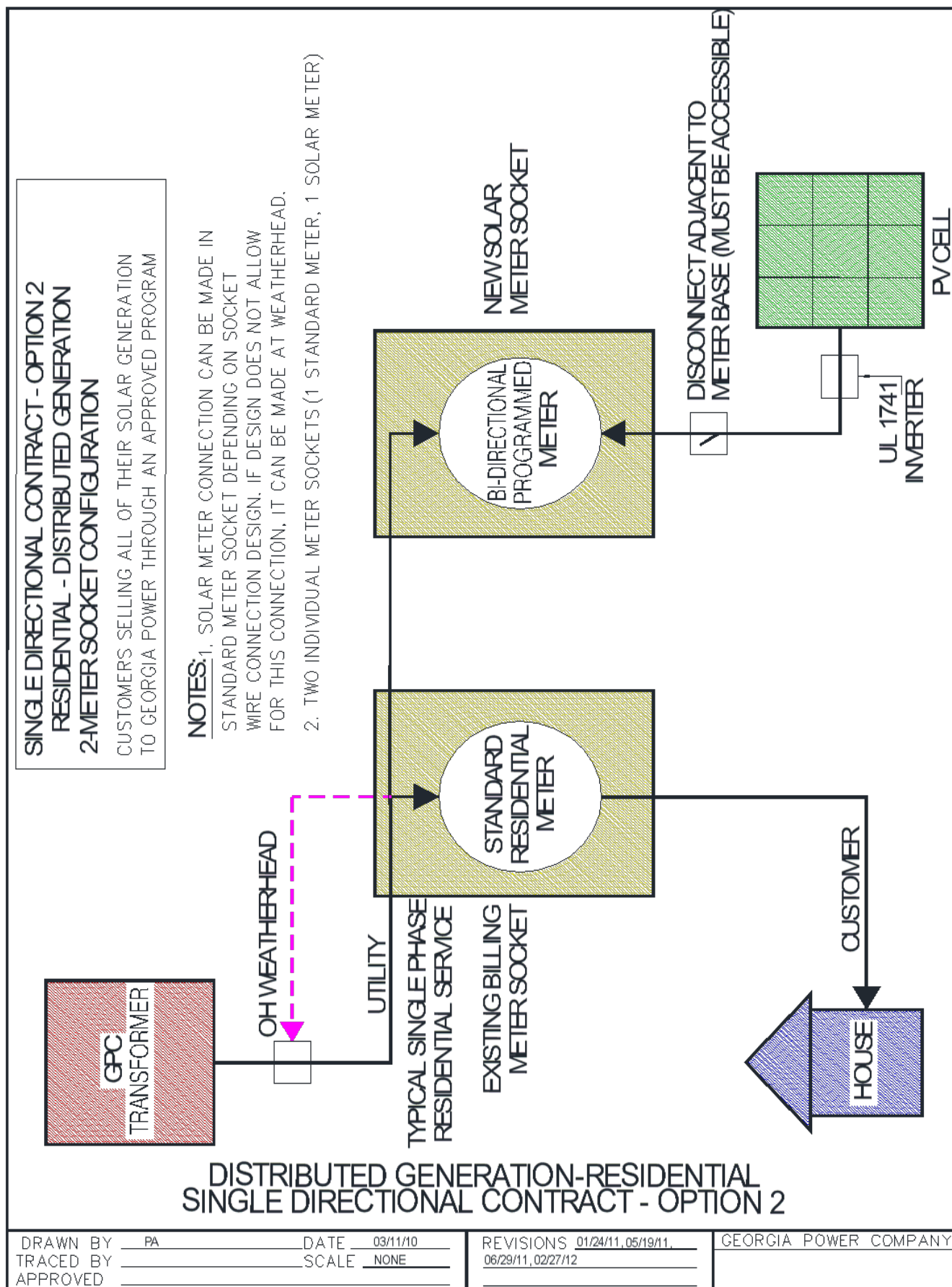


Residential (SP) 2 Meter Socket Configuration, Option 3

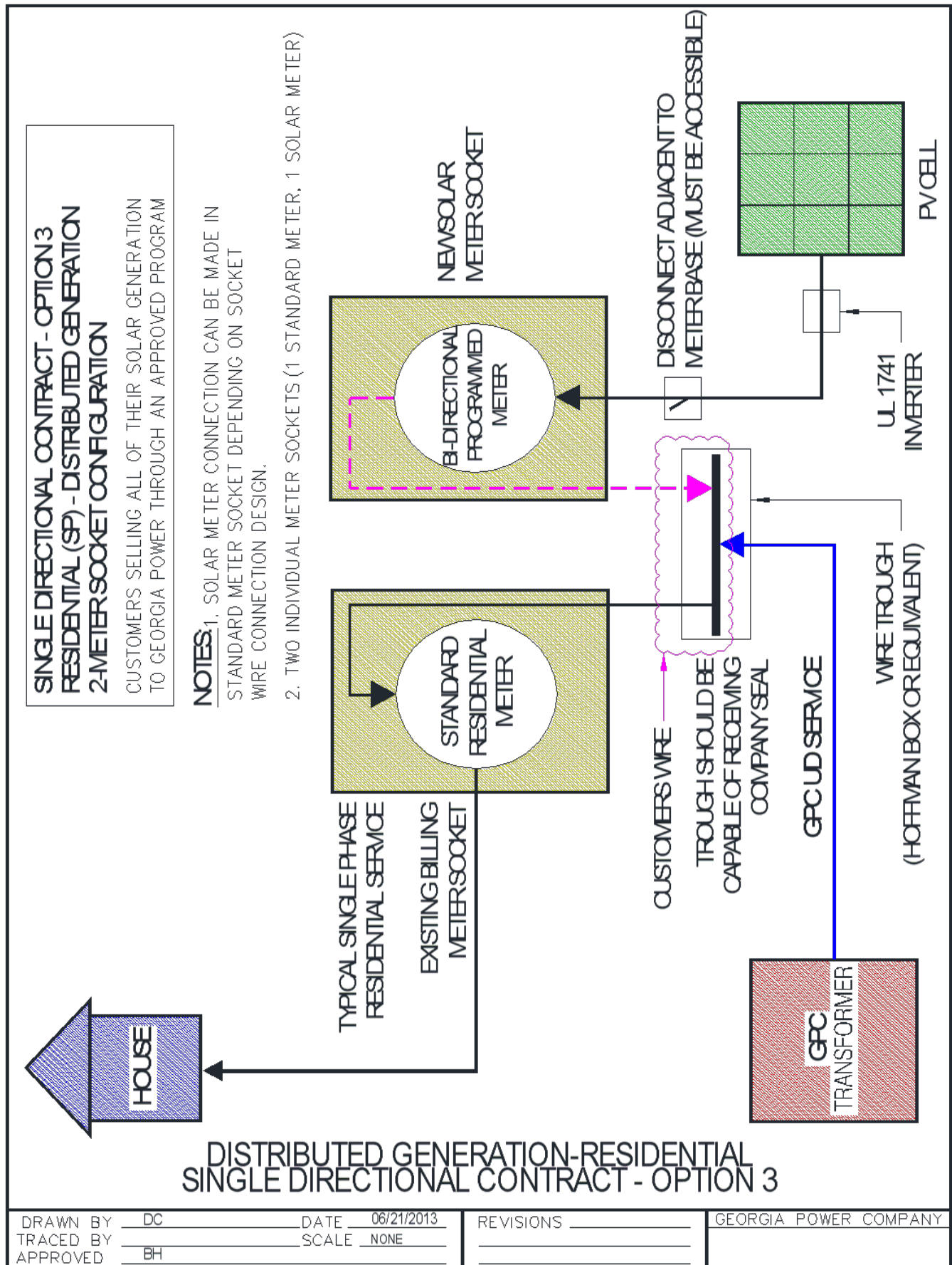
13.1 Residential Option #1



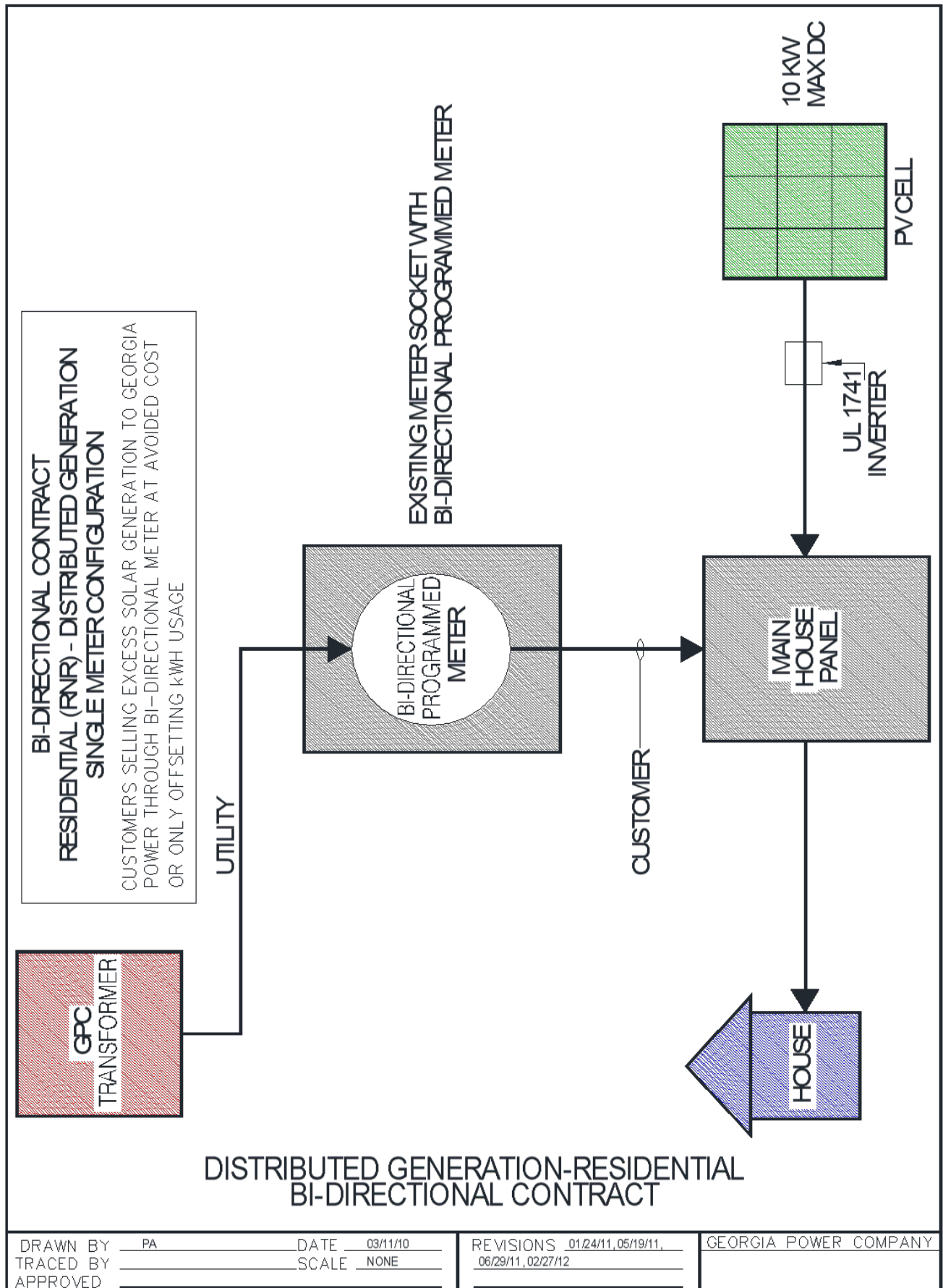
13.2 Residential Option #2



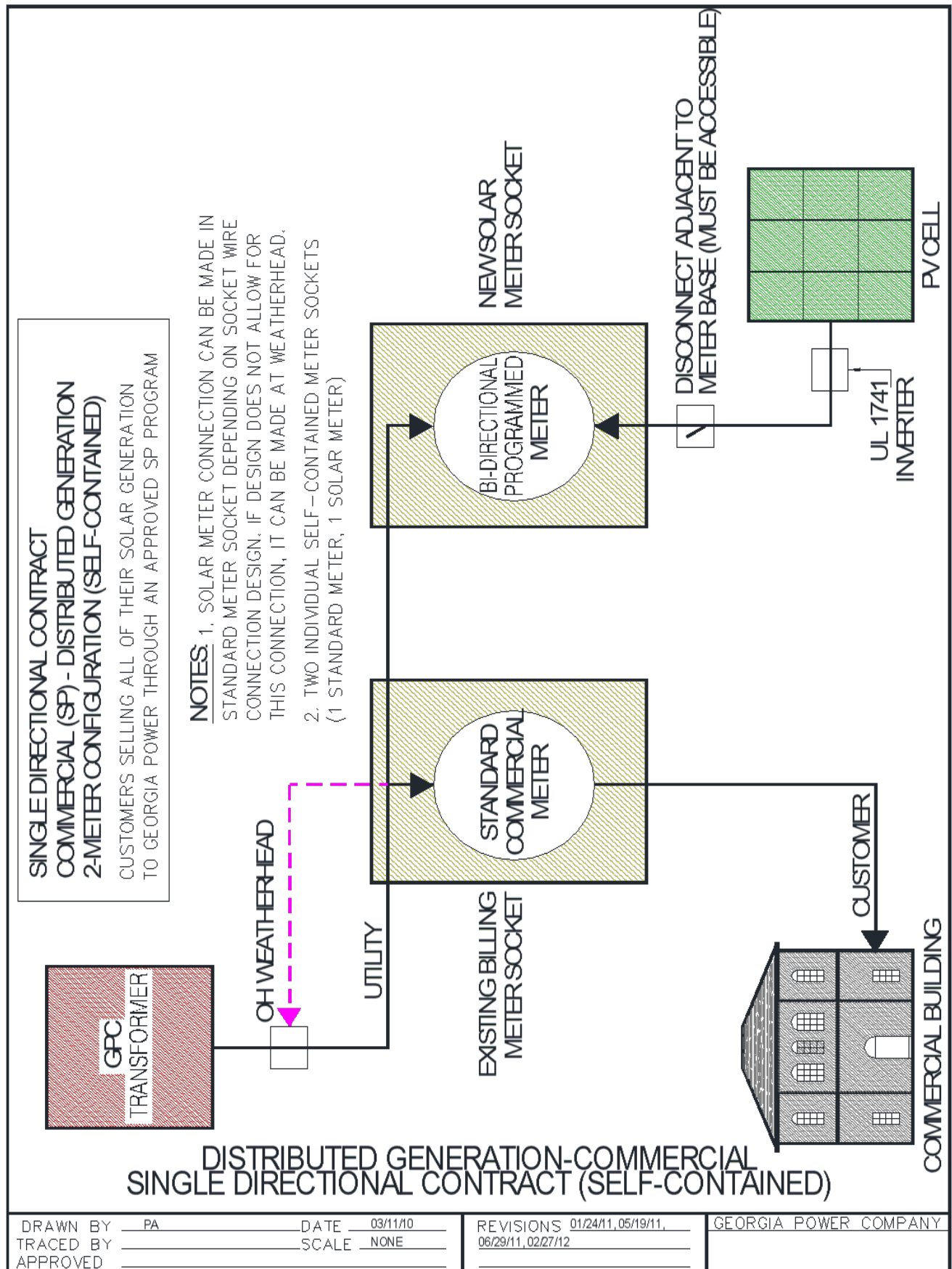
13.3 Residential Option #3



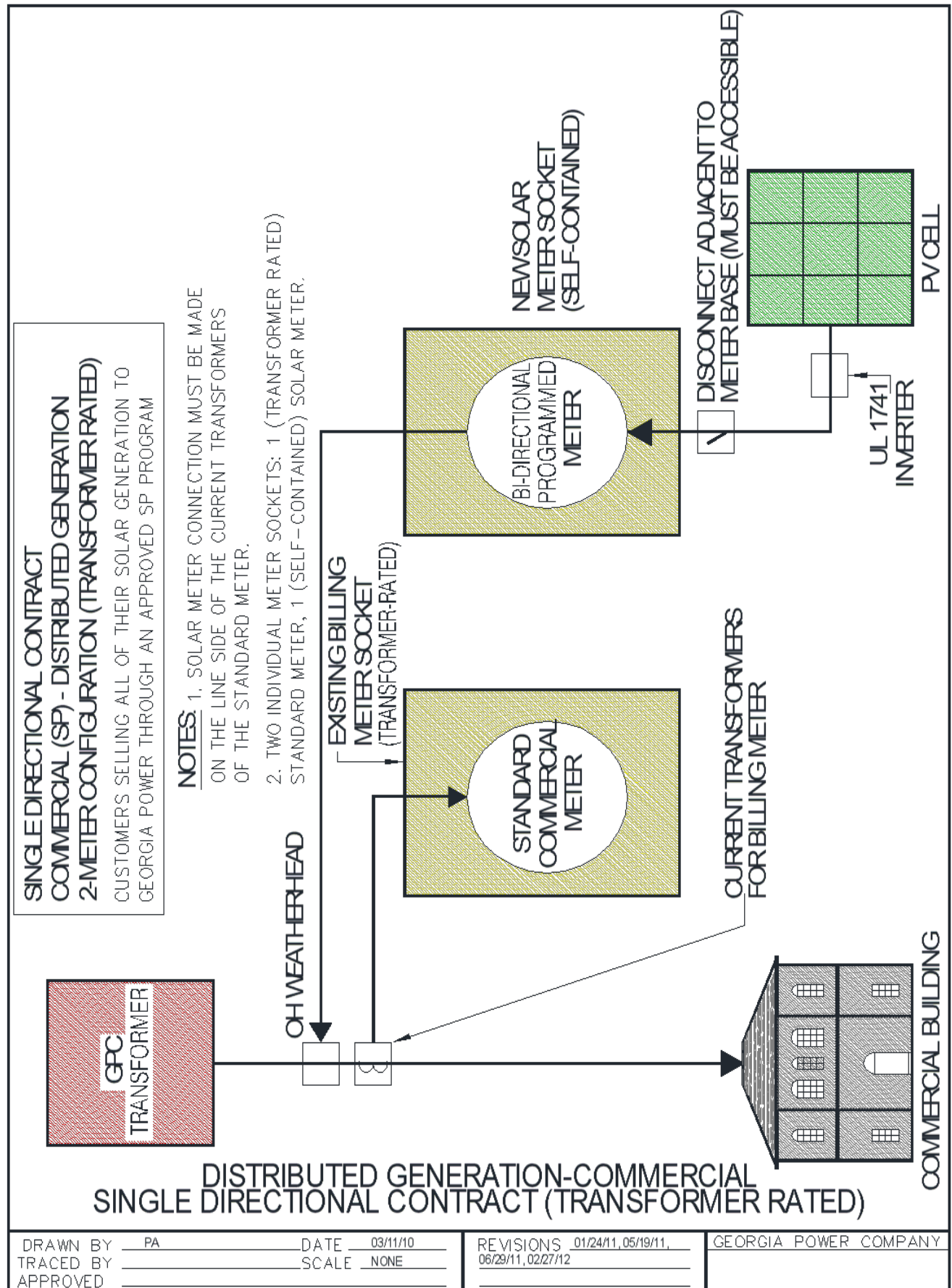
13.4 Residential Bi-Directional Contract



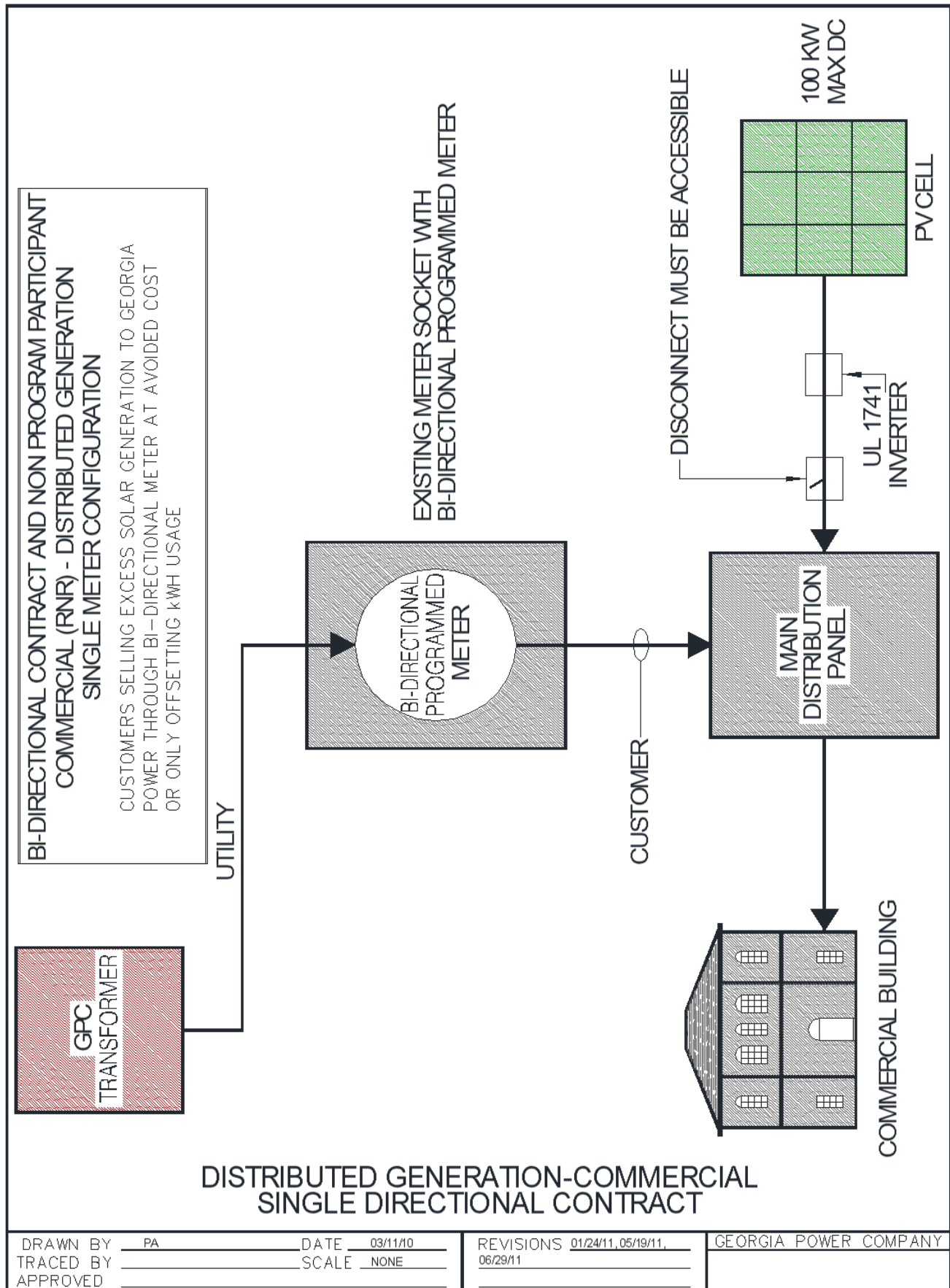
13.5 Commercial (Self-Contained)



13.6 Commercial (Transformer Rated)



13.7 Commercial Bi-Directional Contract



13.8 Label for Distribution Generation Enclosures

WARNING LABEL FOR DISTRIBUTED GENERATION ENCLOSURES



WARNING

Co-Generation System Present
Disconnect from source before
working on equipment

Can cause:
Electrical Shock, Burn or Death

PANDUIT PPS0204WS001

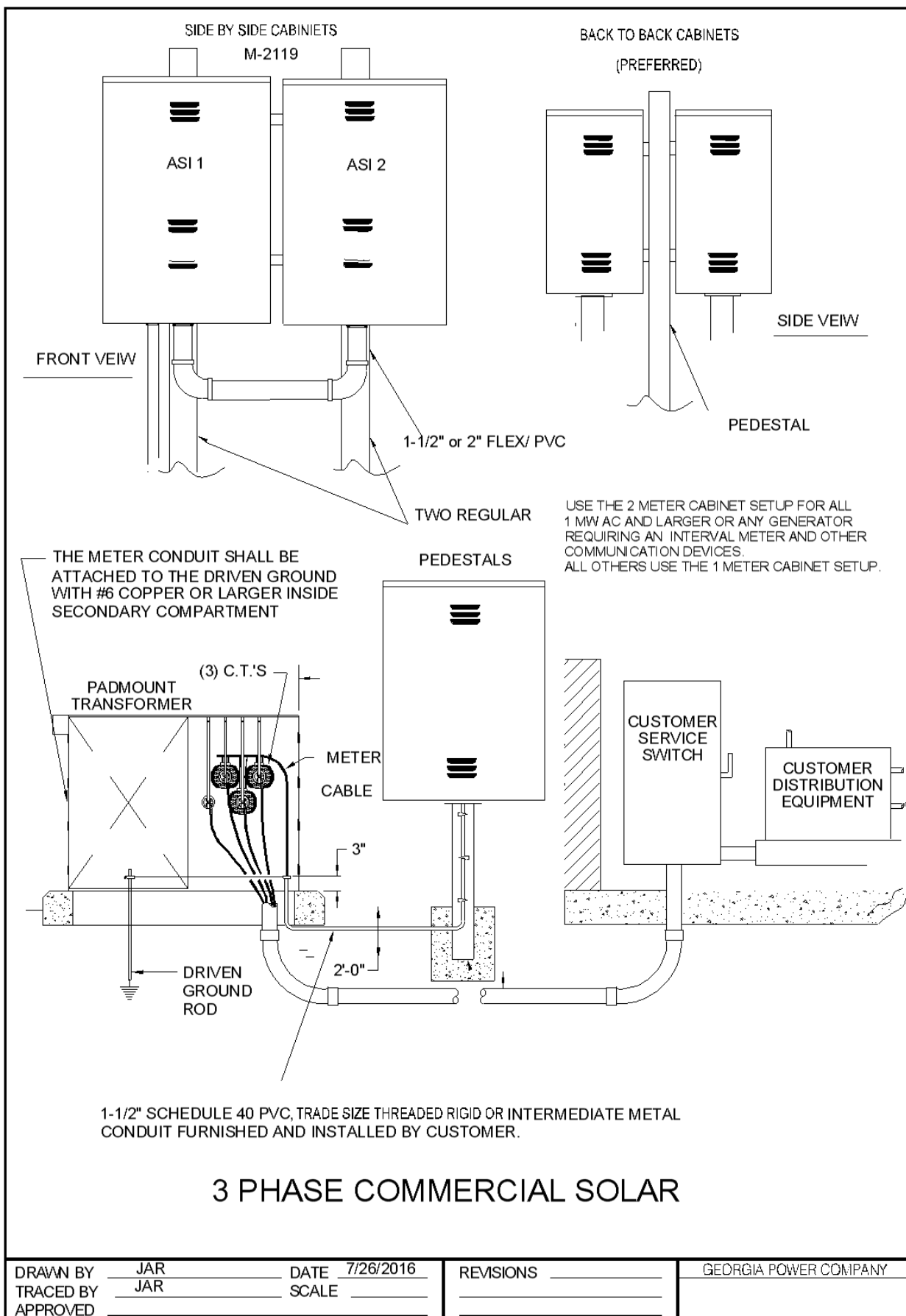
**THIS LABEL IS TO BE INSTALLED
ON METER SOCKET**

DRAWN BY PA DATE 05/24/11
TRACED BY JAR SCALE NONE
APPROVED _____

REVISIONS 10/22/15

GEORGIA POWER COMPANY

13.9 4-Wire, 3-Phase, Commercial Solar



14.0 4-Wire, 3-Phase CT Installation, OH/UD Service (Above 600A)

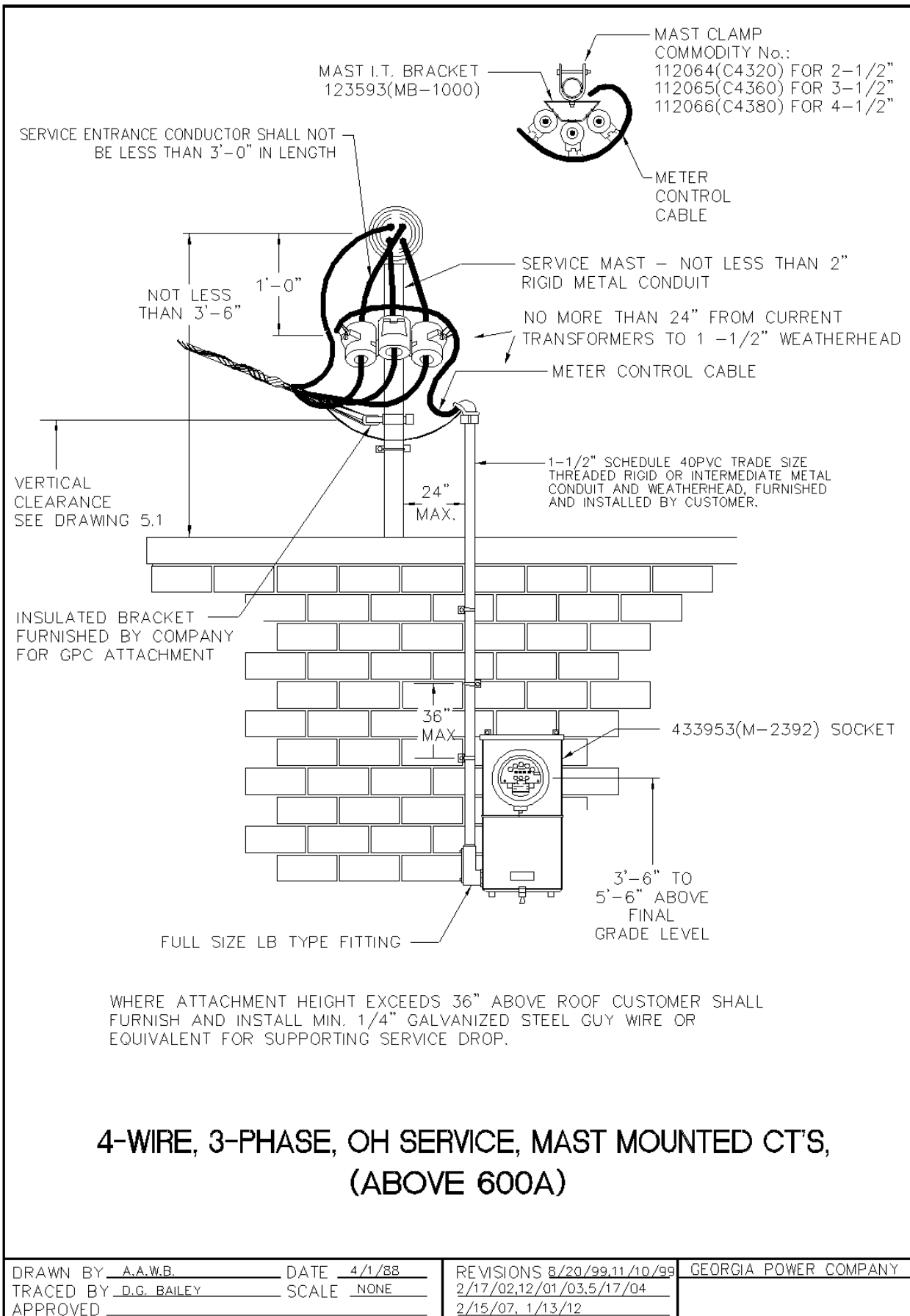
A. General Notes:

1. Service drop and meter furnished by **Company**.
2. Current Transformers provided by company and may be issued to **Customer** for installation or installed by company employee.
3. Meter control cable furnished and installed by **Company**.
4. Meter socket furnished by company and installed by **Customer**.
5. 1½ inch schedule 40 PVC trade size threaded rigid or intermediate conduit furnished and installed by customer.
6. Transocket shall be mounted to pole with equipment furnished by **Company** and installed by **Customer**.
7. Meter socket and conduit strap shall be surface mounted.
8. **Customer** shall wire brush all conductors, apply a non-grit type inhibitor and terminate them by manufacturer's specification.
9. **Customer** is responsible for line and load connections in Transocket as to manufacturer specification listed inside.
10. **Company** will check torque on all connectors prior to setting meters.
11. Meter socket(s) shall be marked with an address number in permanent letters and/or numbers at least 1 inch high height using a contrasting color with enamel paint inside and outside of the socket. Permanent plastic or metal labels are acceptable, at least 1 inch in height. **Permanent Ink Markers, such as Sharpies, are not acceptable.**

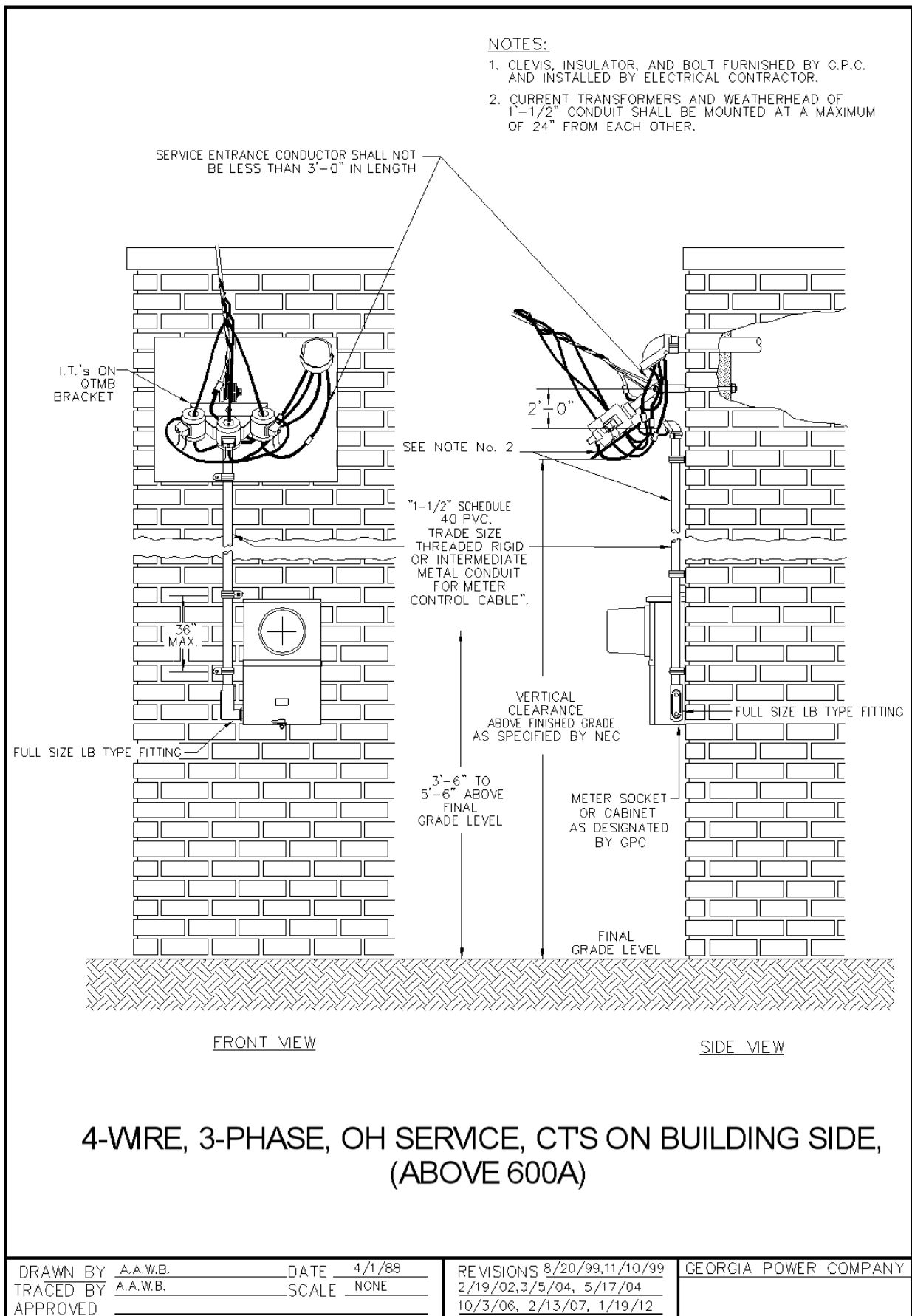


Pad Mount CT Installation and Wall Mount CT Installation

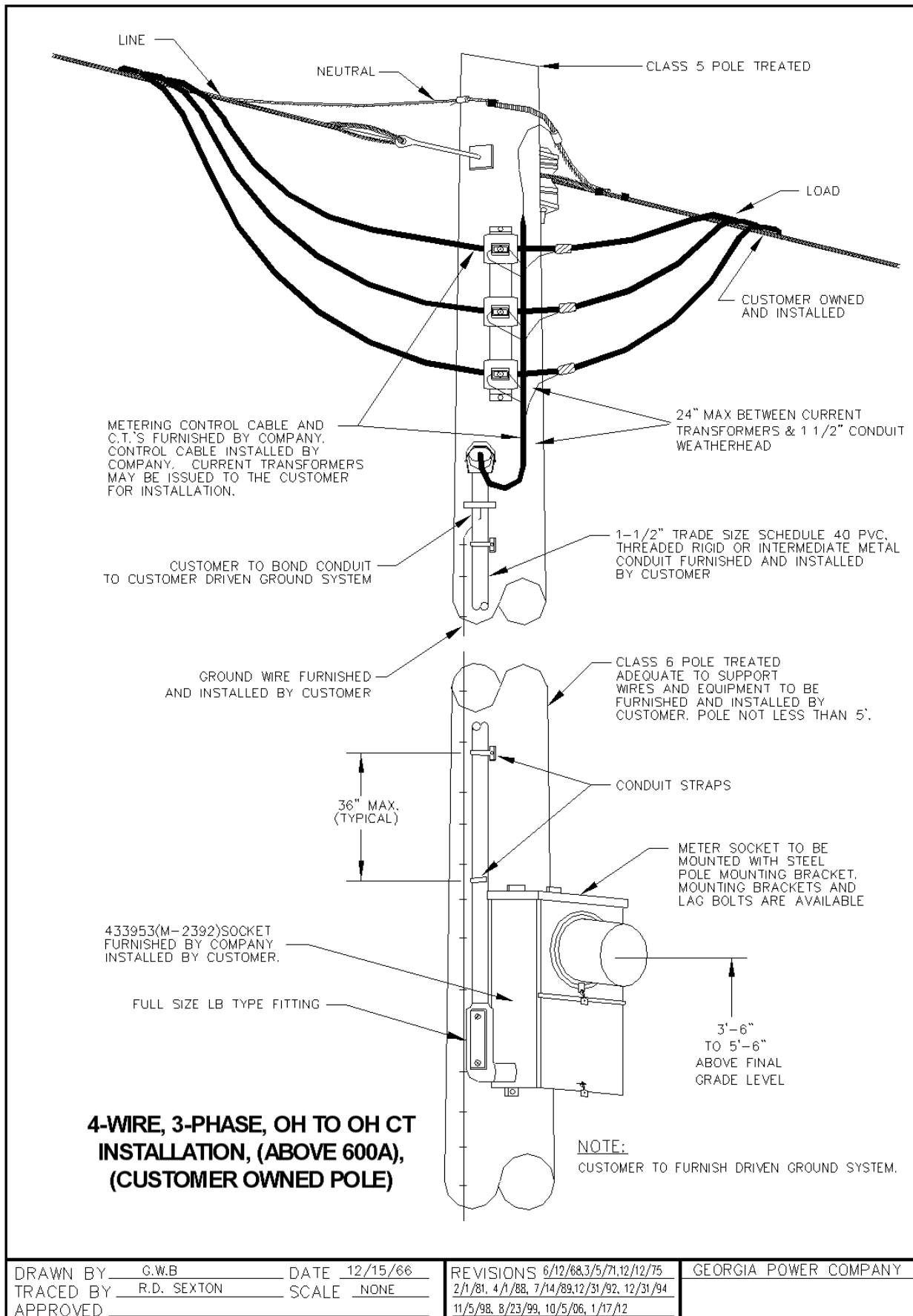
14.1 4-Wire, 3-Phase, OH Service Mast Mounted CT's (Above 600A)



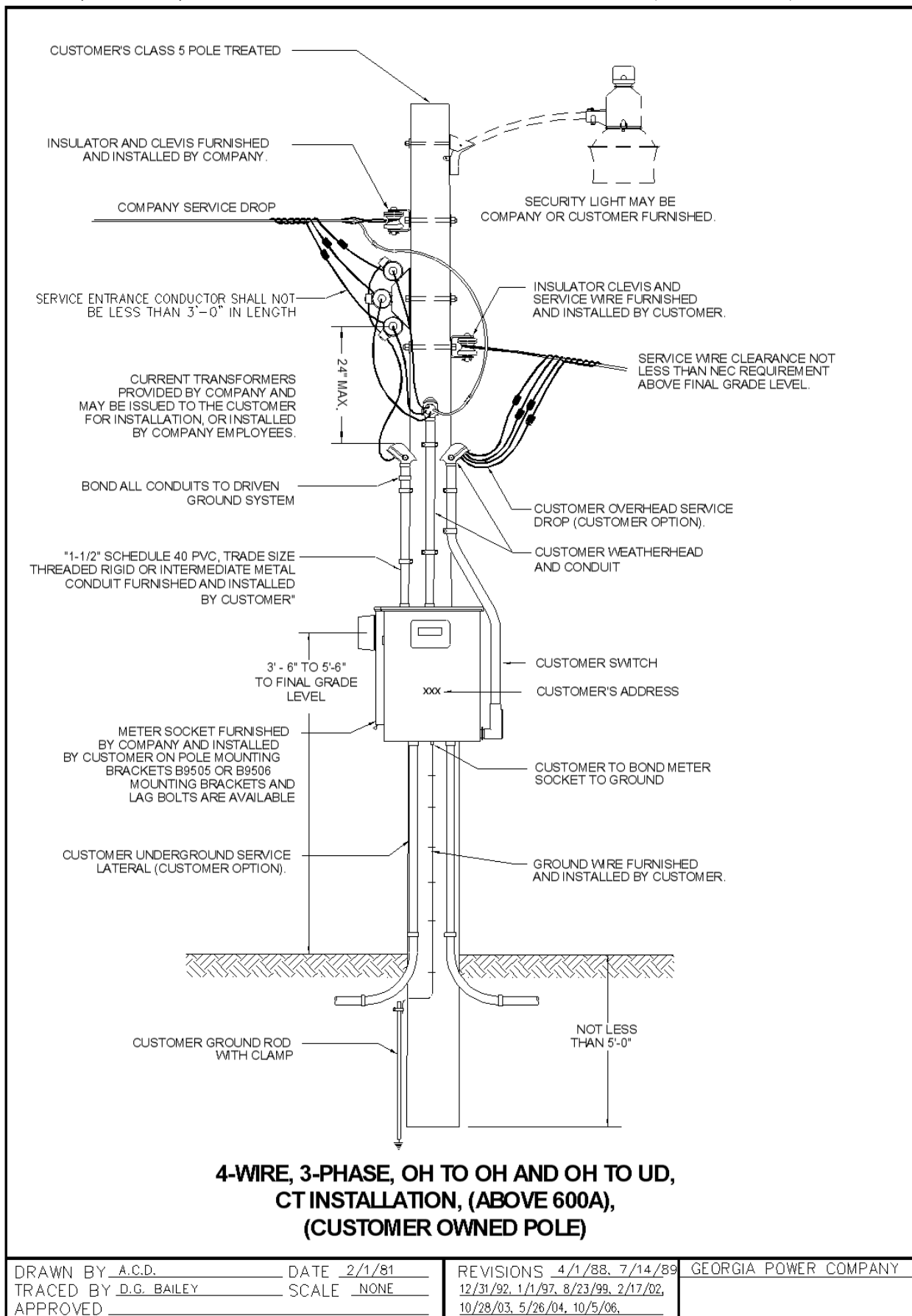
14.2 4-Wire, 3-Phase, OH Service CT's on Building (Above 600A)



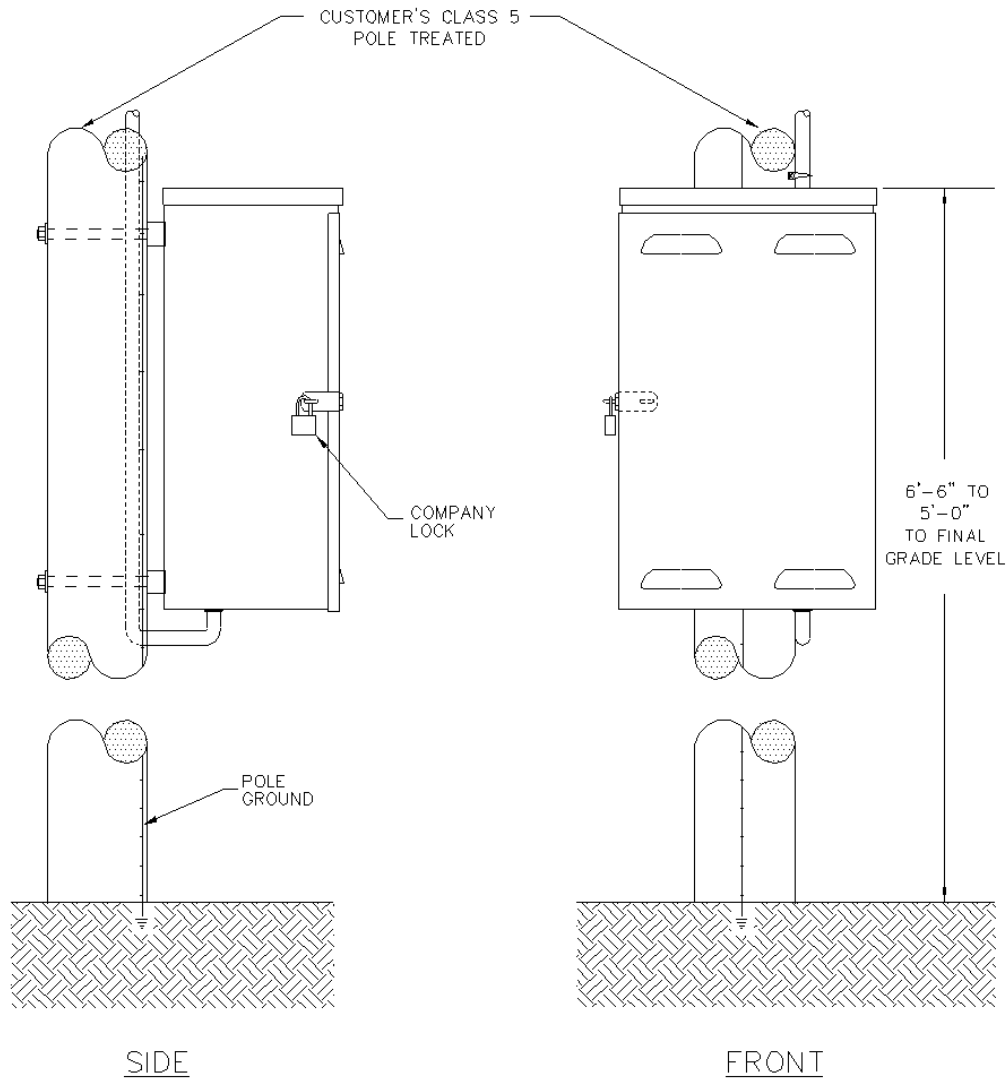
14.3 4-Wire, 3-Phase, OH to OH CT Installation (Above 600A)



14.4 4-Wire, 3-Phase, OH to OH and OH to UD CT Installation (Above 600A)



14.5 4-Wire, 3-Phase, Mounting of Meter Cabinet



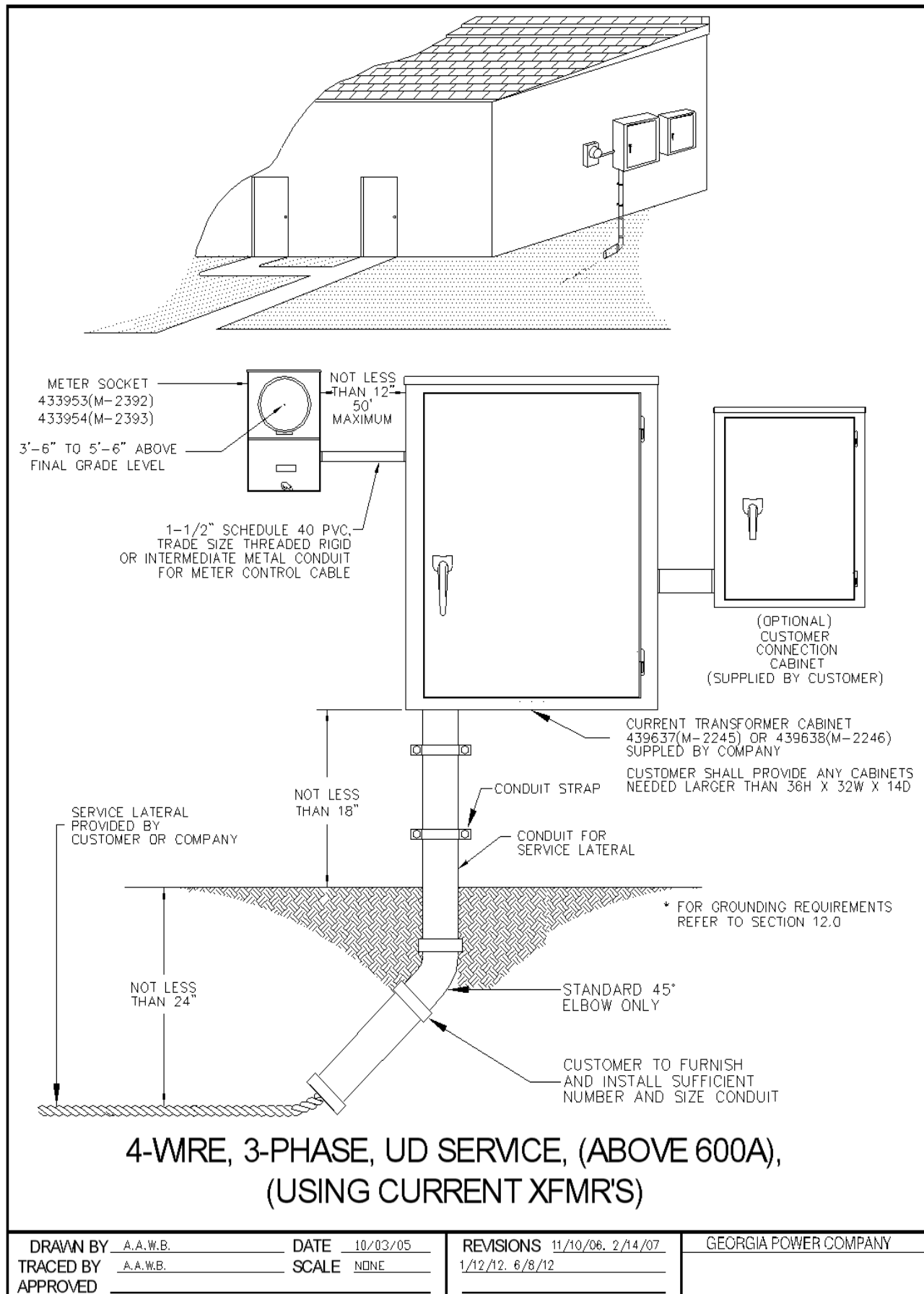
NOTE:

1. CABINET SHOWN. SAME PROVISIONS APPLY TO ALL CABINET AND SOCKETS PROVIDED BY COMPANY.

4-WIRE, 3-PHASE, MOUNTING OF METER CABINET ON CUSTOMER OWNED POLE

DRAWN BY <u>A.A.W.B.</u>	DATE <u>4/1/88</u>	REVISIONS <u>12/31/92, 1/1/97,</u>	GEORGIA POWER COMPANY
TRACED BY <u>A.A.W.B.</u>	SCALE <u>NONE</u>	<u>8/23/99, 2/17/02, 12/01/03</u>	
APPROVED _____			

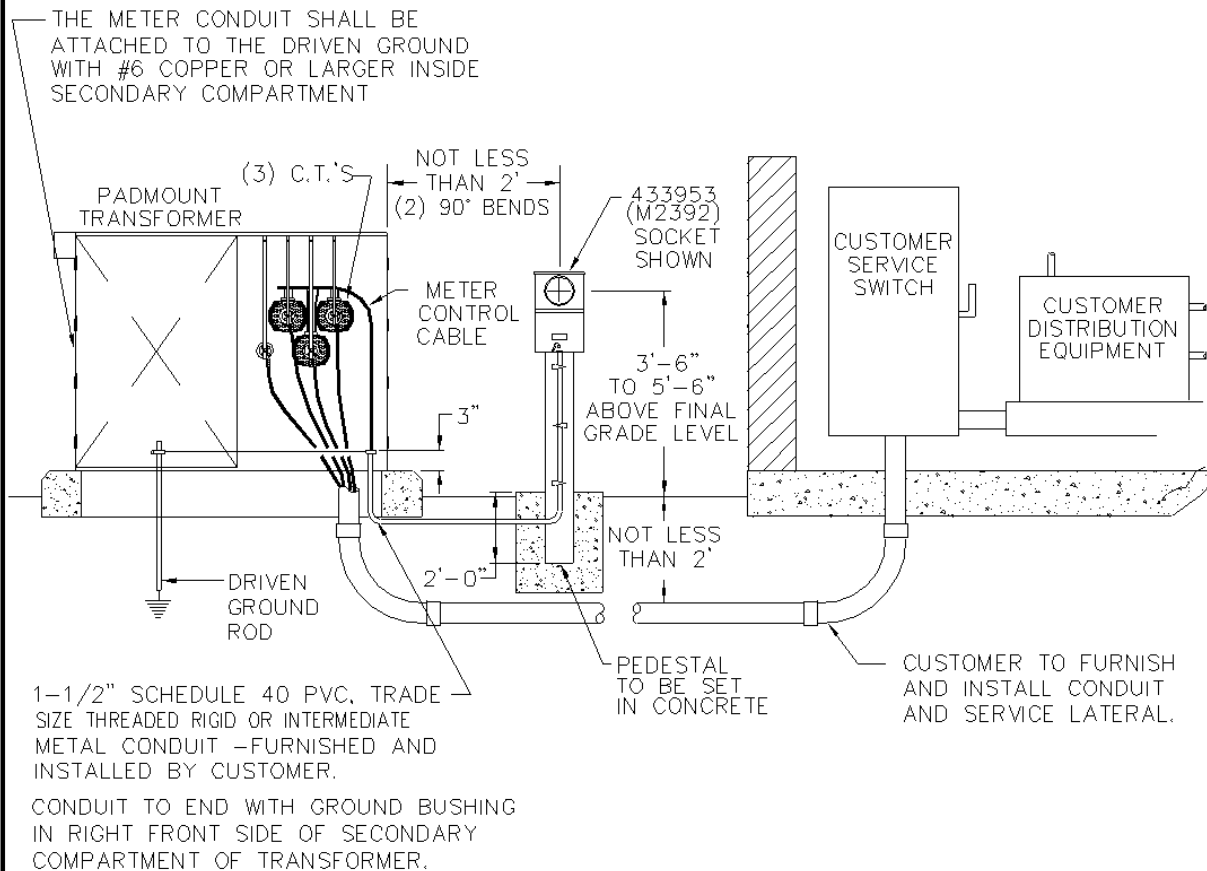
14.6 4-Wire, 3-Phase, UD Service using CTs (Above 600A)



14.7 4-Wire, 3-Phase, CT Padmount Transformer (Above 600A)

NOTES:

1. THIS METHOD OF SERVICE MUST BE APPROVED BY A QUALIFIED EMPLOYEE.
2. COMPANY SHALL MAKE ALL CONNECTIONS AT PADMOUNT AND METER SOCKET.
3. INSTRUMENT TRANSFORMERS TO BE INSTALLED IN SECONDARY COMPARTMENT OF THE PADMOUNT TRANSFORMER BY A QUALIFIED EMPLOYEE.
4. METER SOCKET/CABINET SHALL NOT BE MOUNTED ON THE PADMOUNT TRANSFORMER.
5. METER SOCKET/CABINET AND PEDESTAL FURNISHED BY COMPANY AND INSTALLED BY CUSTOMER.
6. C.T.'S ON SECONDARY SPADES. METER CONTROL CABLE FURNISHED AND INSTALLED BY COMPANY.



4-WIRE, 3-PHASE, PADMOUNT TRANSFORMER,
(ABOVE 600A)

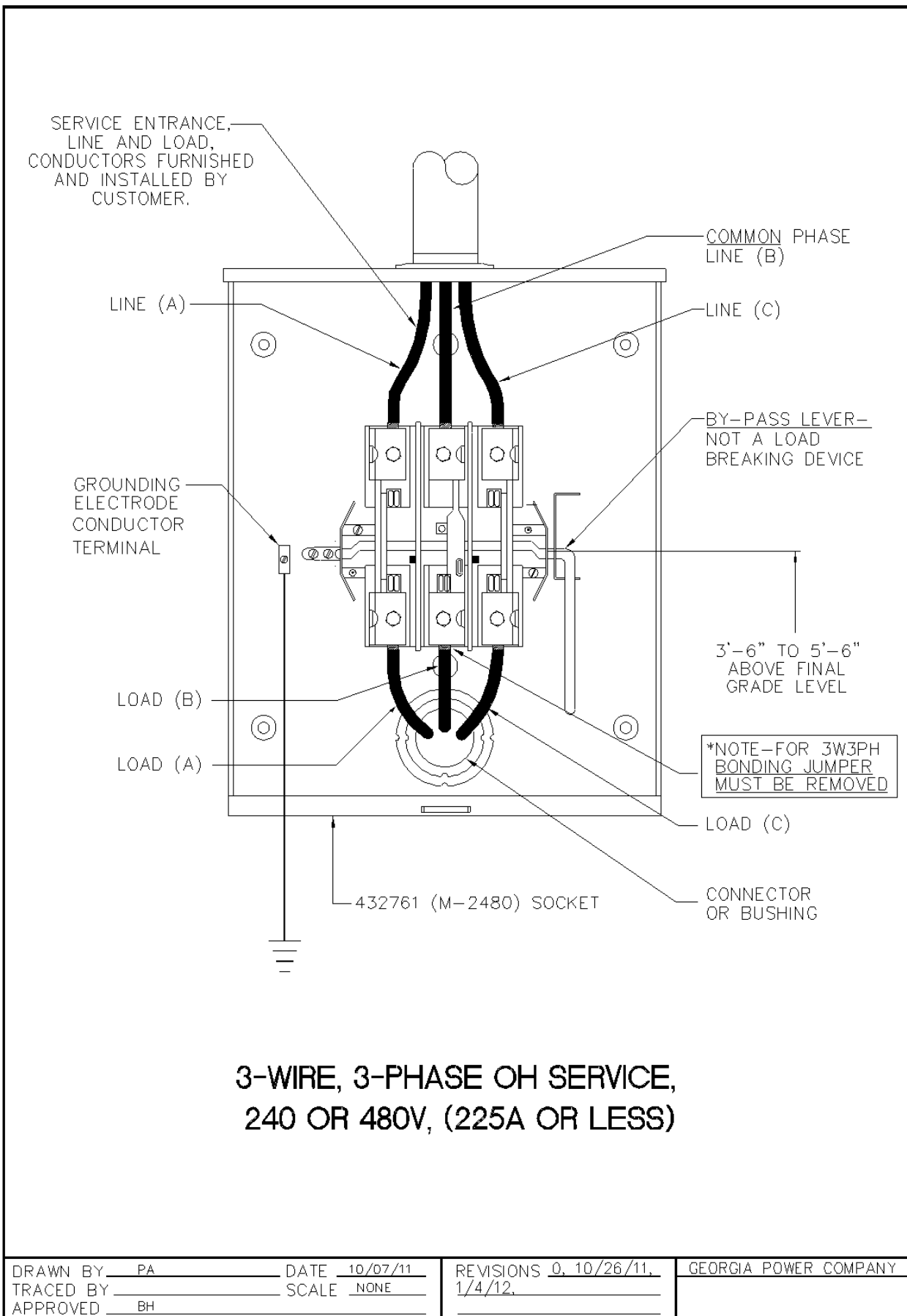
DRAWN BY <u>D.G. BAILEY</u> DATE <u>4/1/88</u> TRACED BY <u>D.G. BAILEY</u> SCALE <u>NONE</u> APPROVED _____	REVISIONS <u>12/31/94, 11/5/98</u> <u>8/23/99, 2/17/02, 10/28/03</u> <u>2/13/04, 5/26/04, 9/7/04, 2/17/12</u>	GEORGIA POWER COMPANY
--	---	-----------------------

15.0 3-Wire, 3-Phase OH Service (240V or 480V), (225A or Less)

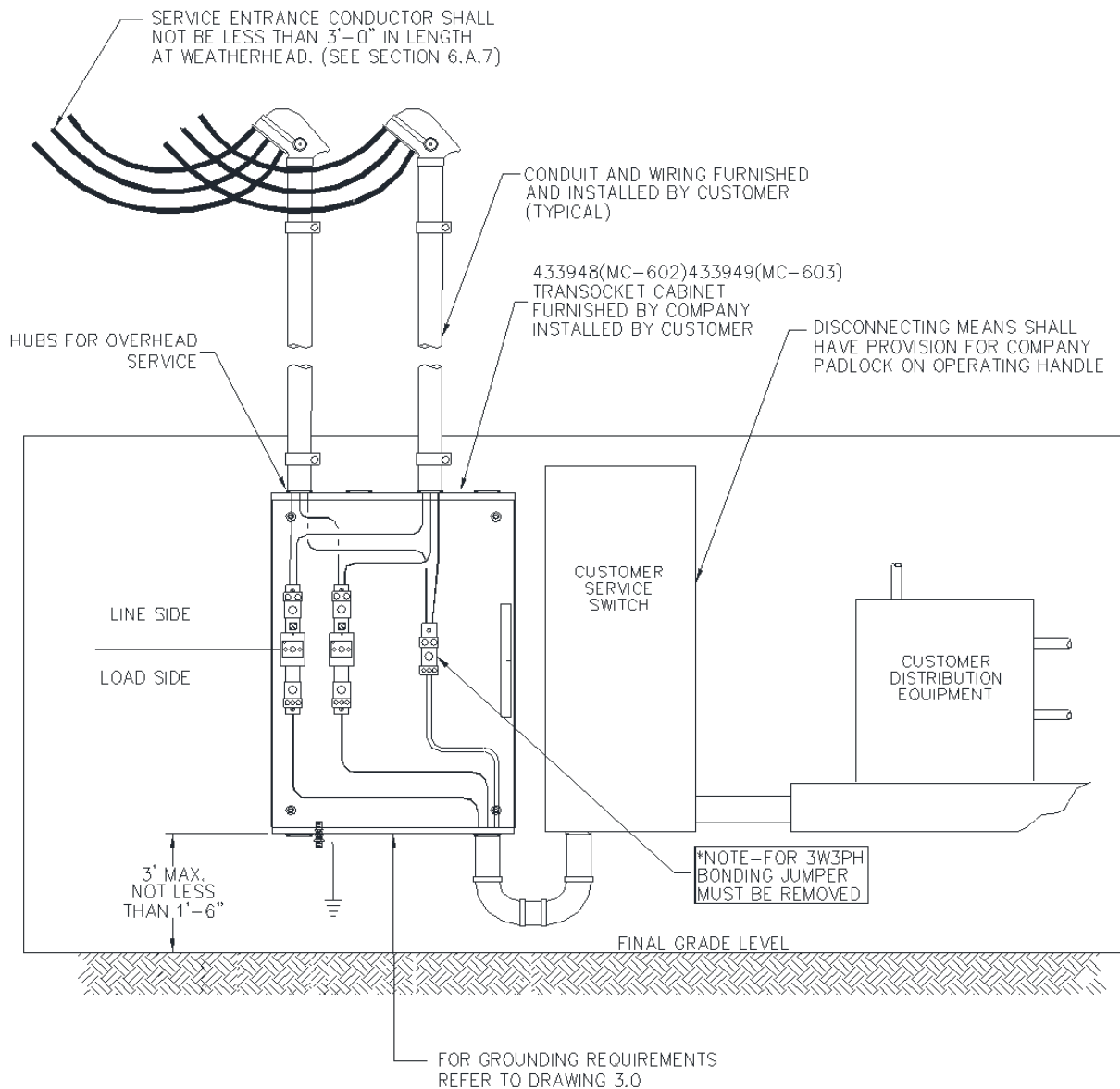
A. General Notes:

1. 3-Wire, 3-Phase service must be provided from an ungrounded transformer secondary, and shall not be provided from a 4-Wire Wye or 4-Wire Delta transformer bank.
2. Conductors, conduit, conduit straps, locking nut bushings, connectors, and miscellaneous mounting hardware furnished and installed by **Customer**.
3. Meter socket, meter socket hub and service drop attachment device furnished by **Company** and installed by **Customer**. Meter socket shall have a lever bypass handle and a removable bonding jumper. The bonding jumper shall be removed to isolate the socket enclosure from the phase conductor.
4. Transocket furnished by **Company** and installed by **Customer**.
5. The bonding jumper must be removed to isolate the socket enclosure from the phase conductor.
6. Transocket may be mounted on building, **Customer** owned pole or pedestal.
7. If the transocket is mounted on the building, **Customer** shall bond the socket to the **Customer's** grounding electrode system. If the transocket is mounted on a **Customer** owned pole or pedestal, the **Customer** shall provide a driven ground system.
8. Current transformers and meter socket furnished by the **Company** and installed by the **Customer**.
9. All 600 volt installations shall utilize current transformers and potential transformers.
10. **Customer** shall install all phase conductors with a continuous run through the cabinet if CT Cabinet is used.
11. Current transformers, meter socket and steel pole mounting bracket furnished by **Company** and installed by **Customer**.
12. **Customer** shall provide a driven ground system.

15.1 3-Wire, 3-Phase, OH Meter Socket, Ungrounded



15.2 3-Wire, 3-Phase, OH Service Transocket Wall Mounted, Ungrounded



NOTES:

1. METER SOCKET MOUNTED OUTDOORS.
2. COMPANY TO MAKE ALL SERVICE LATERAL CONNECTIONS AT POLE.
3. CUSTOMER TO MAKE ALL LINE AND LOAD CONNECTIONS IN TRANSOCKET.
4. METER SOCKET SHALL BE MOUNTED ON THE BUILDING.

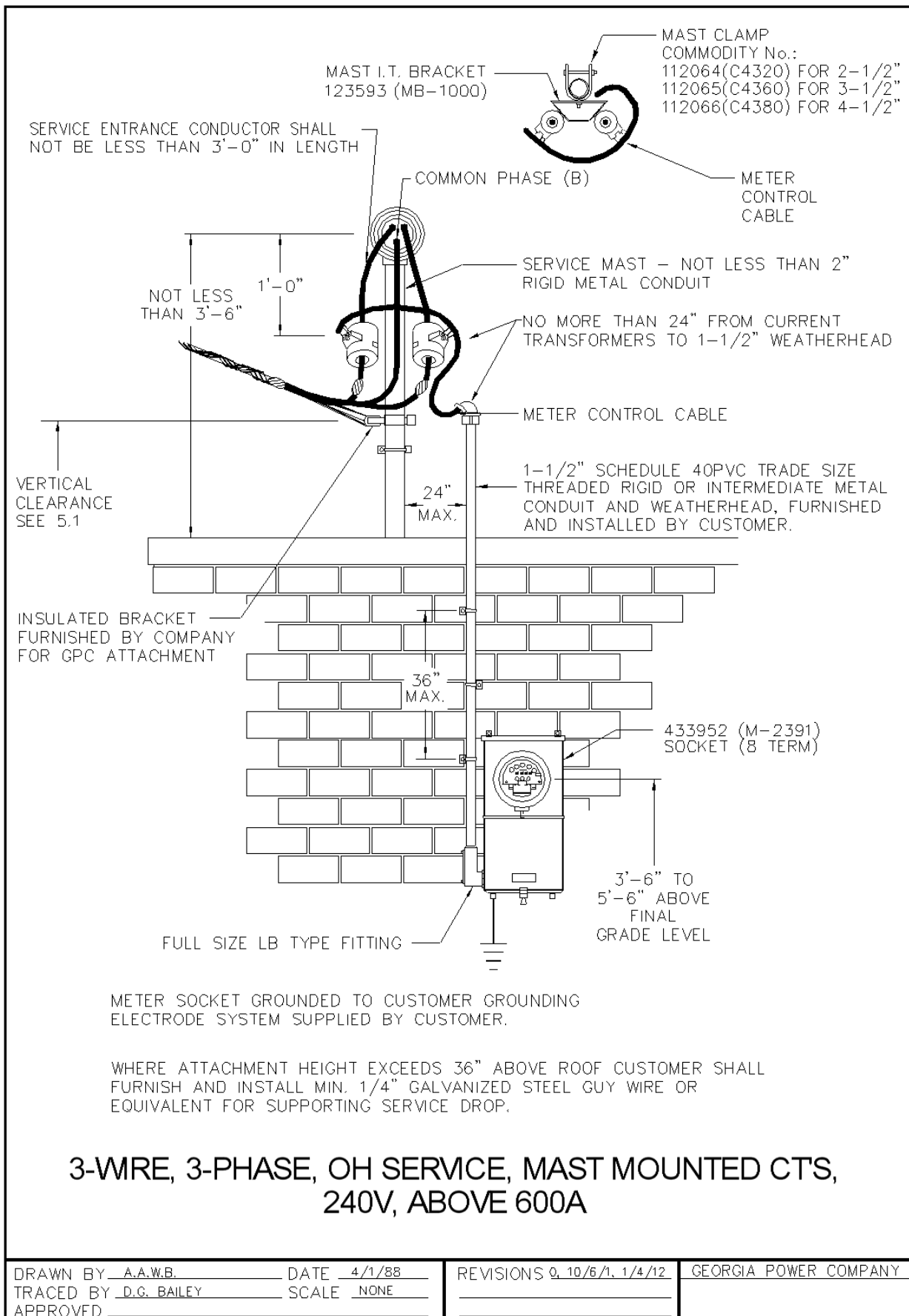
3-WIRE, 3-PHASE OH SERVICE, TRANSOCKET, WALL MOUNTED, 240 OR 480V, (226A TO 600A)

DRAWN BY PA DATE 10/10/11
 TRACED BY SCALE NONE
 APPROVED BH

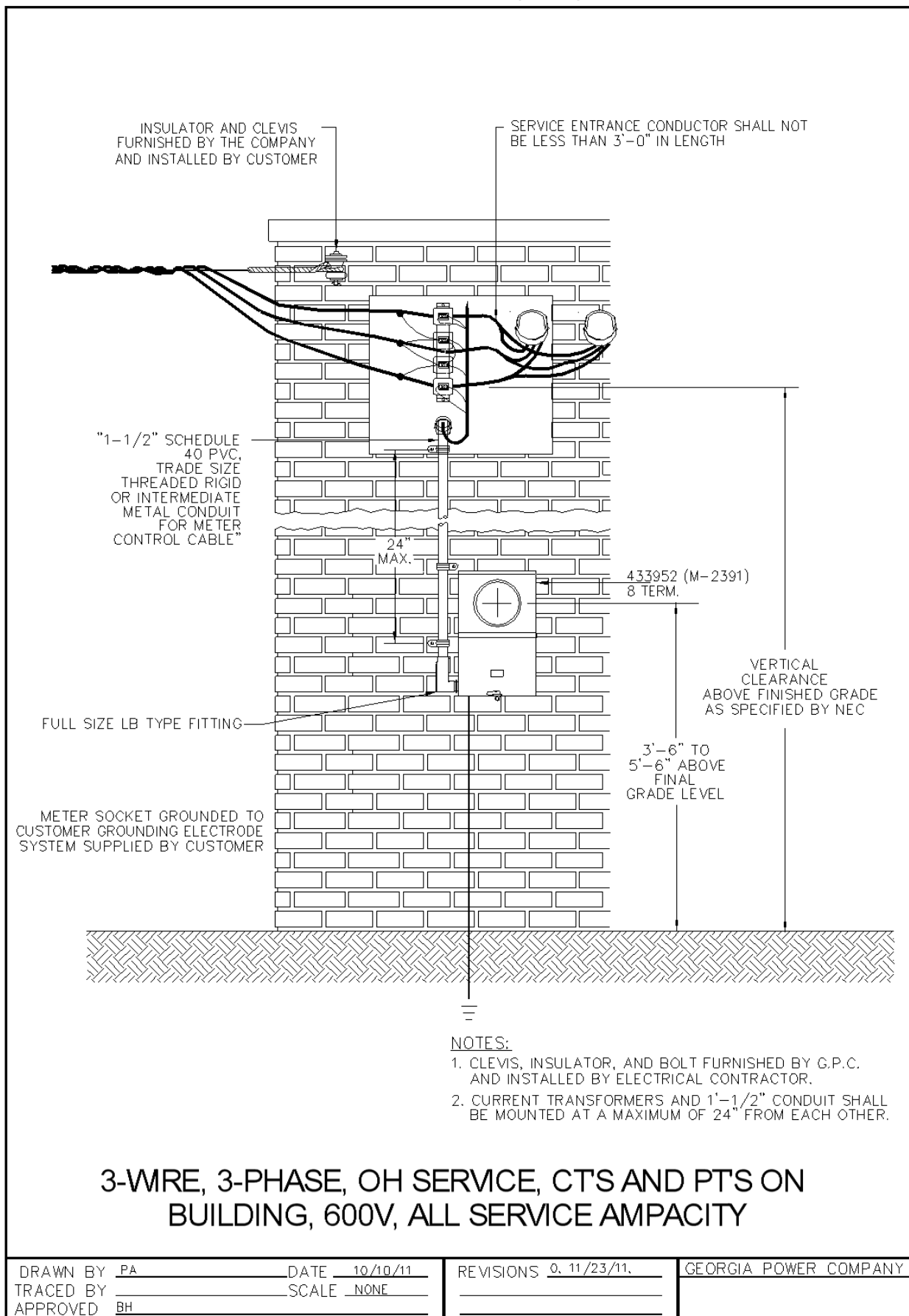
REVISIONS 0. 1/4/12
 6/21/12, 9/24/12

GEORGIA POWER COMPANY

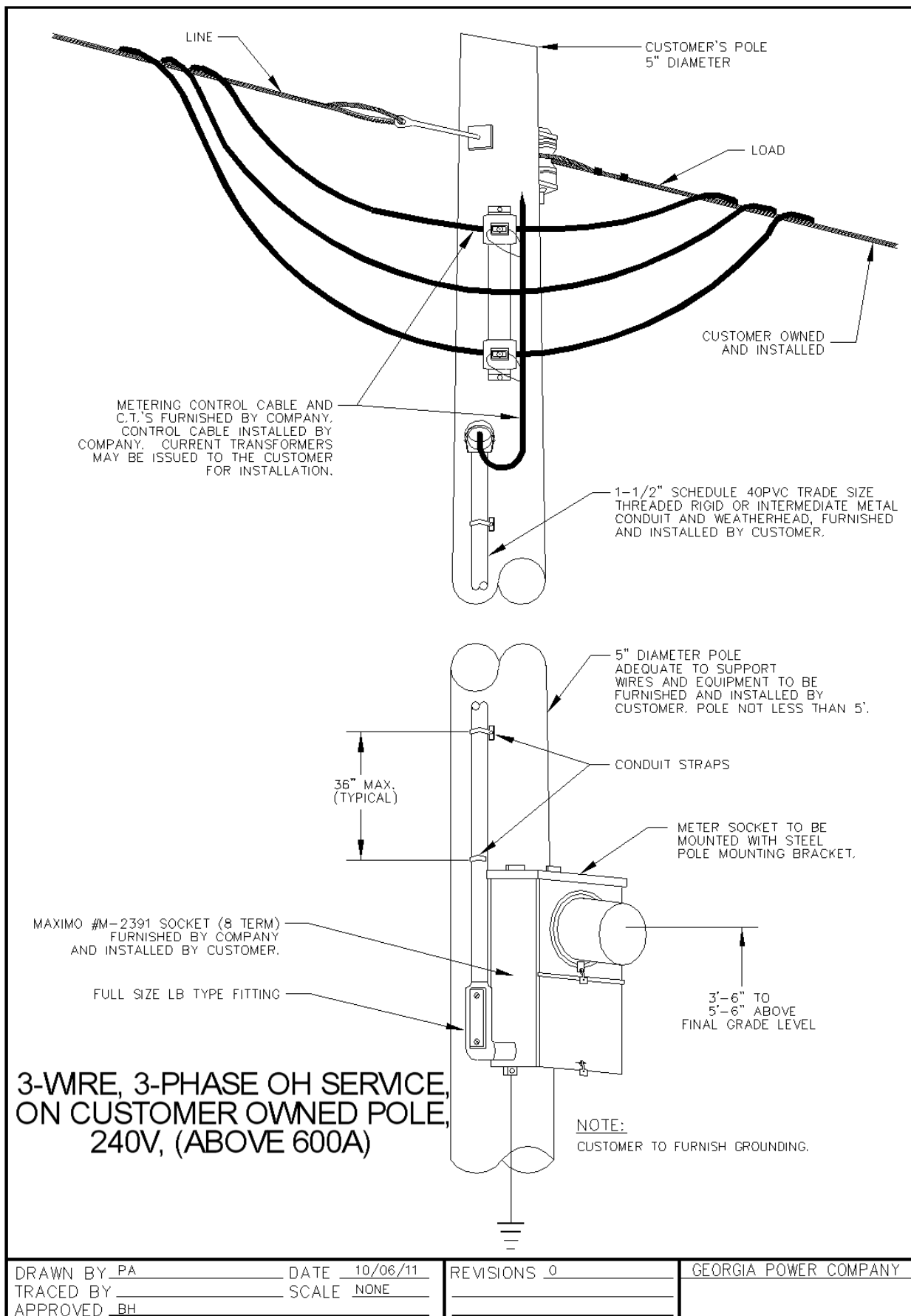
15.3 3-Wire, 3-Phase, OH Service, Mast Mounted, Ungrounded



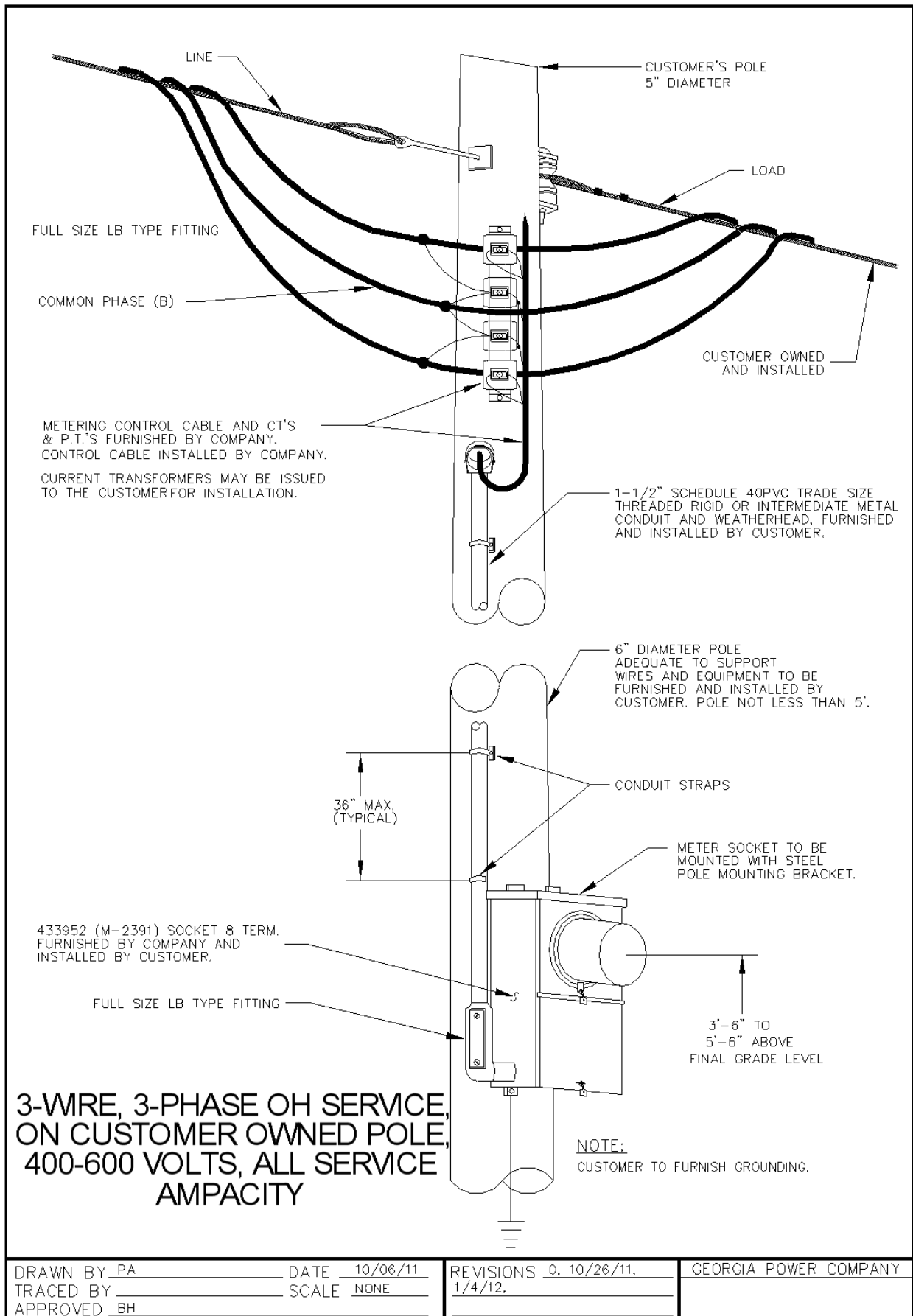
15.4 3-Wire, 3-Phase, OH CT's and PT's on Building, Ungrounded



15.5 3-Wire, 3-Phase, OH Service, Customer Owned Pole, Ungrounded



15.6 3-Wire, 3-Phase, OH Service, Customer Owned Pole, Ungrounded



NOTES

16.0 3-Phase Meter Installation, Common Distribution Point

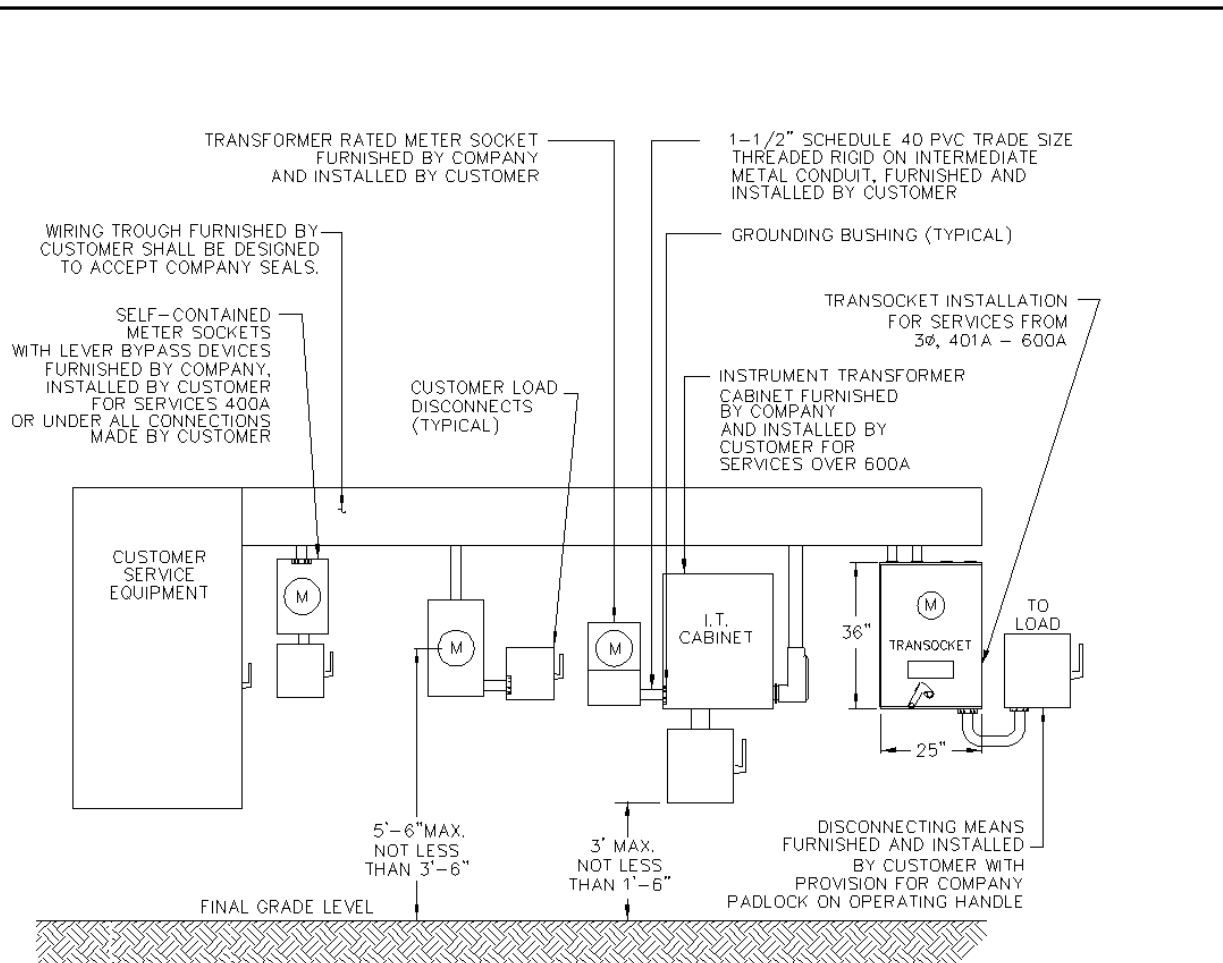
A. General Notes:

1. This arrangement may be utilized for services above 225 amperes and up to 600 amperes.
2. Conductors, conduit, conduit straps, lock nuts, bushings connectors, and miscellaneous mounting hardware furnished and installed by **Customer**.
3. Meter sockets furnished by **Company** and installed by **Customer**.
4. Requirements regarding accessibility to equipment and unobstructed working space adjacent to metering equipment are specified in [Section 3.4.C](#) and [Section 4.1](#).
5. Meter socket, cabinets, trough and conduits shall be surface mounted.
6. Meter socket, instrument transformer cabinet and conduit straps shall be fastened to building using metal anchors (brick or solid masonry), toggle bolts (other masonry siding), or wood screws (studs, solid lumber). All screws and bolts shall be ¼ inch diameter (minimum) stainless steel. A minimum of four (4) fasteners shall be used to mount socket or cabinet. No conduit shall enter at the top of the transformer rated meter socket.
7. Conduit ends shall be equipped with proper bushing to protect conductors.
8. **Customer** is responsible for line and load connection in Transocket as to manufacturer specification listed inside Transocket. The transocket is provided with 600 MCM dual rated, two port, non-rotational connectors.
9. Meter socket(s) shall be marked with an address number in permanent letters and/or numbers at least 1 inch high height using a contrasting color with enamel paint inside and outside of the socket. Permanent plastic or metal labels are acceptable, at least 1 inch in height. **Permanent Ink Markers, such as Sharpies, are not acceptable.**
10. All meter sockets shall be ringless.



Typical Multi-Meter Distribution Point

16.1 3-Phase, Meter Installation Distribution Point



NOTES:

1. METER SOCKETS, INSTRUMENT TRANSFORMERS AND CABINETS MOUNTED OUTDOORS EXCEPT WHERE SPECIAL PERMISSION OBTAINED PRIOR TO STARTING WORK FROM QUALIFIED EMPLOYEE.
2. COMPANY TO MAKE ALL SERVICE LATERAL CONNECTIONS AT POLE OR PADMOUNT TRANSFORMER AND ALL METERING CONTROL CABLE CONNECTIONS IN METER SOCKET AND INSTRUMENT TRANSFORMER CABINET.
3. CUSTOMER TO MAKE ALL LINE AND LOAD CONNECTIONS IN SELF-CONTAINED METER SOCKETS, TRANSOCKETS, AND TROUGH.
4. CONDUCTORS CARRYING METERED AND UNMETERED ENERGY SHALL NOT BE ALLOWED IN SAME WIRING TROUGH OR CONDUIT.
5. THE CUSTOMER SHALL FURNISH AND INSTALL A TRADE SIZE 1-1/2" SCHEDULE 40 PVC, THREADED RIGID OR INTERMEDIATE METAL CONDUIT INTO THE AVAILABLE KNOCKOUTS OF THE METER SOCKET TEST SWITCH ENCLOSURE. NO CONDUIT SHALL ENTER THROUGH THE TOP OR BACK OF THE METER ENCLOSURE OR IT CABINET. ALL METER CONTROL CABLE ACCESS POINTS SHALL REMAIN READILY ACCESSIBLE.
6. REFER TO SECTION 3.0 "BONDING & GROUNDING OF METER EQUIPMENT".

3-PHASE METER INSTALLATION, COMMON DISTRIBUTION POINT

DRAWN BY A.A.W.B. DATE 4/1/88
TRACED BY A.A.W.B. SCALE NONE
APPROVED _____

REVISIONS 12/31/92, 12/31/94,
11/16/98, 5/17/99, 2/17/02,
5/17/04, 10/17/11, 10/26/11

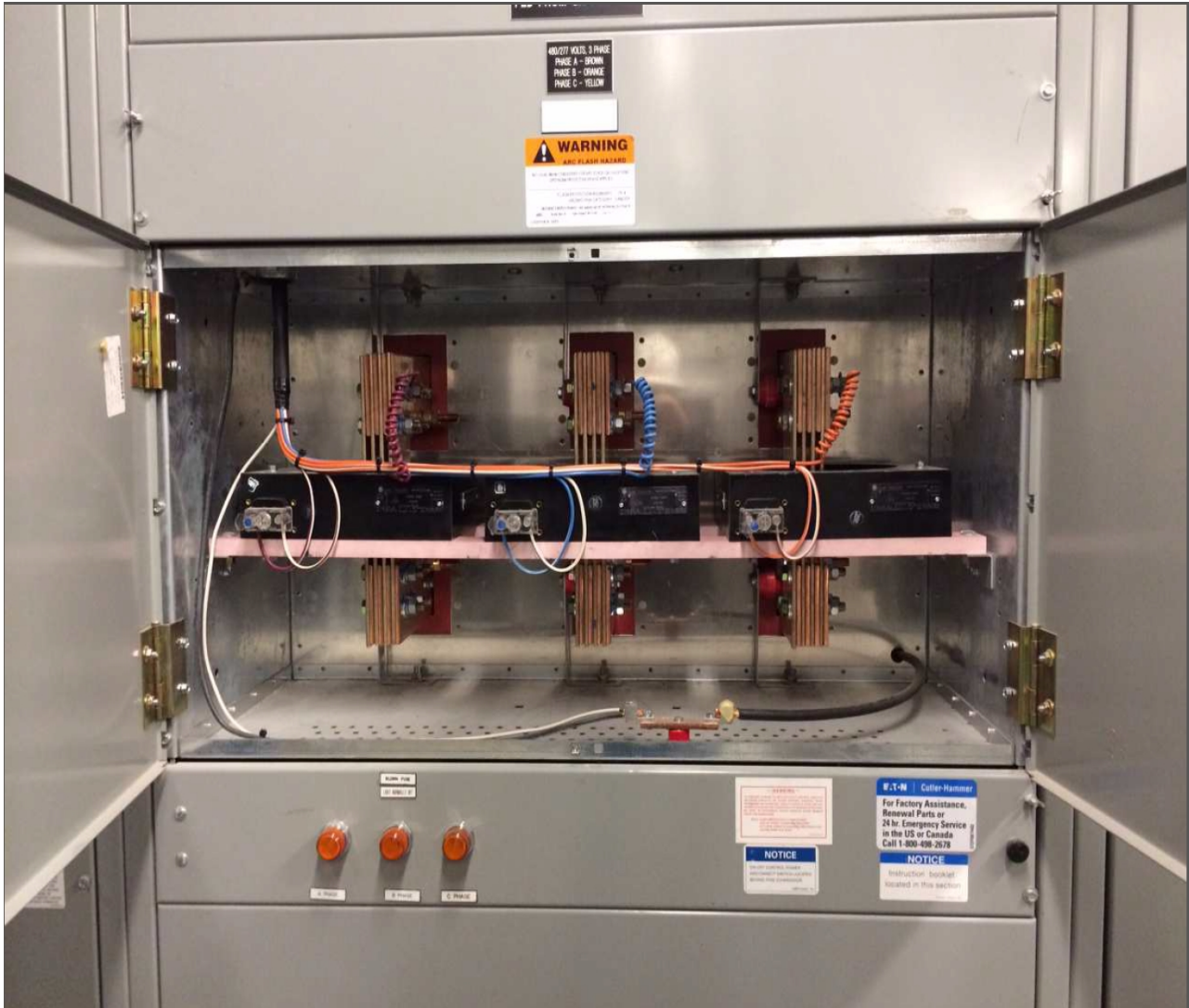
GEORGIA POWER COMPANY

17.0 Meter Compartment in Switch Gear, (Customer Owned Facilities)

A. General Notes:

1. Metering compartment shall be constructed to separate and permanently barrier line and load conductors.
2. Compartment must provide control cable connections for each phase, neutral and the grounding conductors. Buss connections shall be a ¼ inch x 20 coarse thread, female tap.
3. Instrument transformers shall be supplied by the **Company** and installed by **Customer**.
4. All possible access doors and panels shall be secured with wing nut and threaded post drilled for wire seals.
5. A hinged and sealable lockable door shall be provided.
6. 1½ inch schedule 40 PVC, trade size threaded rigid or intermediate metal conduit for control cable shall be furnished and installed by **Customer**.
7. A maximum of two 90 degree bends or sweeps is allowed in each run of conduit.
8. The metering compartment shall be at minimum of 45 inches wide and located not be less than 24 inches and not more than 72 inches from floor level to the center of the compartment.
9. Where instrument transformers are to be located in the **Customer's** switchgear, they shall be installed by the switchgear manufacturer or the electrical contractor at the **Customer's** expense. Such instrument transformers shall be installed **AHEAD OF ALL LOAD** and in a separate compartment of the switchgear for each service. Each compartment shall be equipped with a hinged sealable door and shall be located such that metering personnel will have clear and unobstructed access to the instrument transformers. Clear removable barriers shall be provided behind the doors at the instrument transformers. The switchgear buss work shall also be constructed to have a removable link for installation or replacement of the CTs, as needed. The **Customer** shall be responsible for all connections and torque specifications. The **Customer** is also responsible for the shipping instructions along with a one-line diagram showing the location of the instrument transformers within the switchgear which shall be sent to the **Company's** Metering Services Engineering Section.
10. The metering cabinet shall be mounted securely and in a workman like manner on an adjacent wall immediately accessible and visible from the switch gear.
11. Conduits shall be grounded to the **Customer's** grounding system and grounded completely from the gear to the cabinets.
12. Conduit ends shall be equipped with proper bushing to protect conductors.
13. All electrical connections to metering equipment shall be made by the **Company**.

17.1 Customer Switchgear



METER COMPARTMENT SWITCHGEAR,
(CUSTOMER OWNED FACILITIES)

NOTES:

- 1. METERING COMPARTMENT MUST BE SEPARATE AND SECURE.
- 2. ONLY LINE SIDE BUS BARS OR CONDUCTORS MAY BE CONTAINED IN METERING COMPARTMENT
- 3. METERING COMPARTMENT WILL BE SUPPLIED BY CUSTOMER.
- 4. INSTRUMENTS TRANSFORMER OR PT'S WILL BE SUPPLIED BY CO. AND INSTALLED BY CUSTOMER.
- 5. ALL POTENTIAL, NEUTRAL AND GROUNDING CONNECTIONS SHALL BE PROVIDED INSIDE METERING COMPARTMENT.
- 6. HINGED LOCKABLE DOOR.
- 7. THREADED POST WITH WING NUTS DRILLED FOR WIRE SEALS.

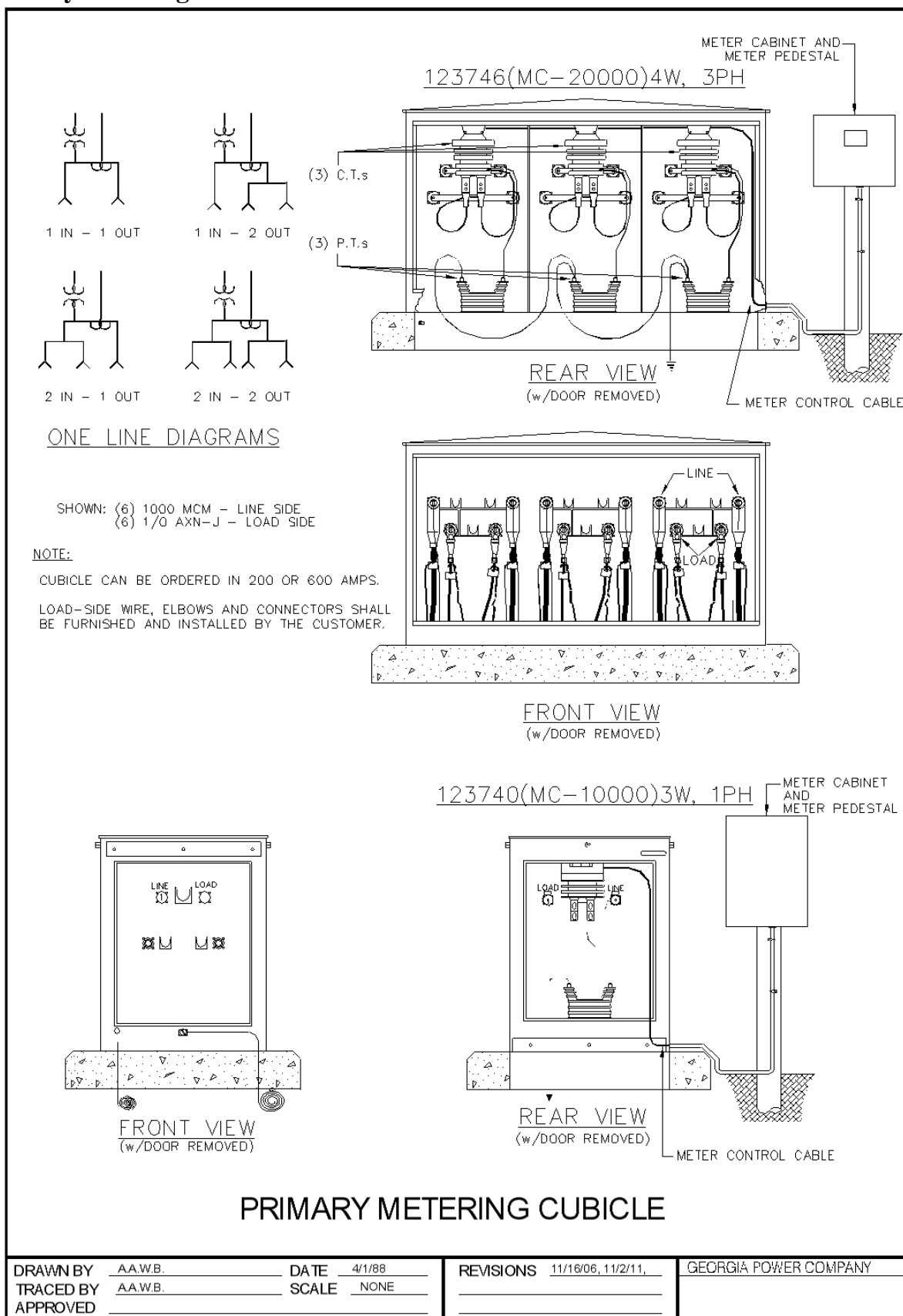
DRAWN BY	PA	DATE	10/6/99	REVISIONS	11/10/99, 01/13/00	GEORGIA POWER COMPANY
TRACED BY		SCALE	NONE		2/17/02, 11/10/06,	
APPROVED						

18.0 Metering Installations at Primary Distribution Voltages

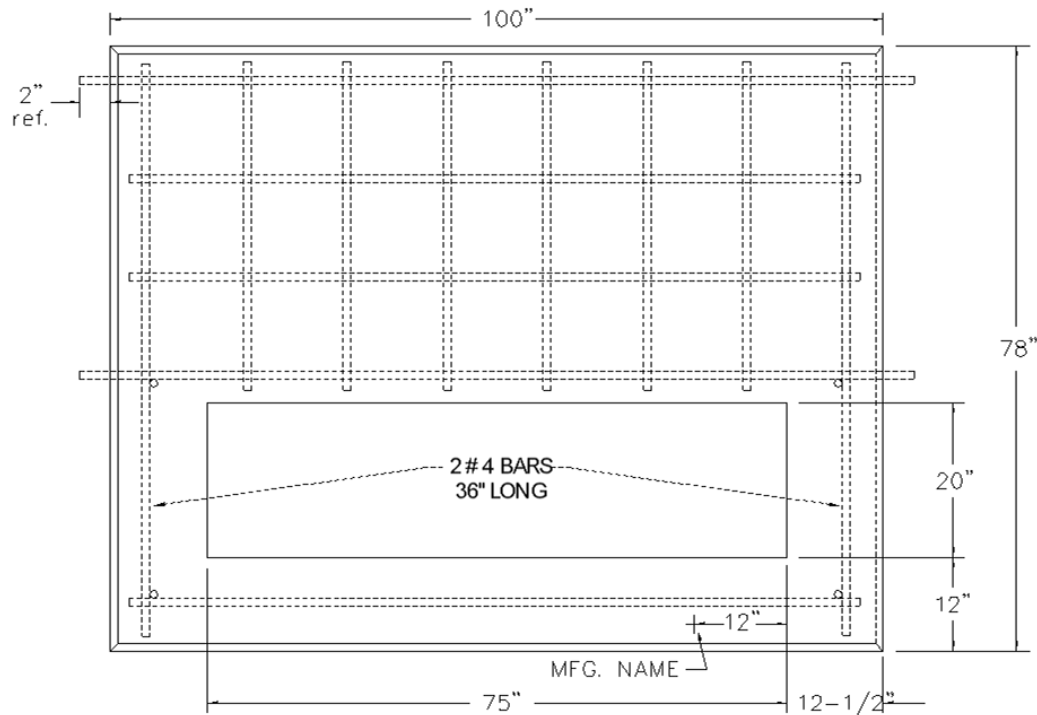
A. General Notes:

1. Service at more than 600 volts, nominal, will be measured using practical, sound and accepted metering practices as approved by Metering Services using one of the following methods:
 - (a) A standard substation feeder.
 - (b) A standard over-head primary voltage metering cluster.
 - (c) A standard primary voltage underground metering cubicle.
 - (d) Approved customer switchgear with drawings and designs for the instrument transformer compartment.
 - (e) A low-side primary voltage meter installation immediately adjacent to a customer owned transformer, where the transformer loss compensation can be correctly applied to the revenue meter registers, and the high-side voltage of the customer transformer is the service point and is a voltage greater than or equal to 46 kV, upon review and approval by GPC Metering Services.
 - (f) No service voltage more than 600 volts will be measured inside a Georgia Power Co. owned transformer enclosure or any part thereof for the purpose of revenue metering.
 - (g) No instrument transformers shall be installed in a customer owned transformer for the purpose revenue metering of any service voltage.
 - (h) No meter cabinet, sockets, or compartments shall be installed onto a customer owned transformer for the purpose of revenue metering of any service voltage.
 - (i) Service at more than 600 volts, nominal, is subject to special negotiations between the **Customer** and **Company** since the metering and service installations for such service require special engineering consideration. It is necessary to consult the **Company** well in advance of the time such service will be required so the **Customer's** and **Company's** design and construction work can be properly coordinated.
 - (j) Because special requirements are involved and added time must be devoted to these installations to order and build the equipment needed, Metering Services must have a lead time of at least six weeks prior to the date the equipment will be required.
 - (k) A detailed print of the installation to be metered shall be provided to the local area Metering Specialist.

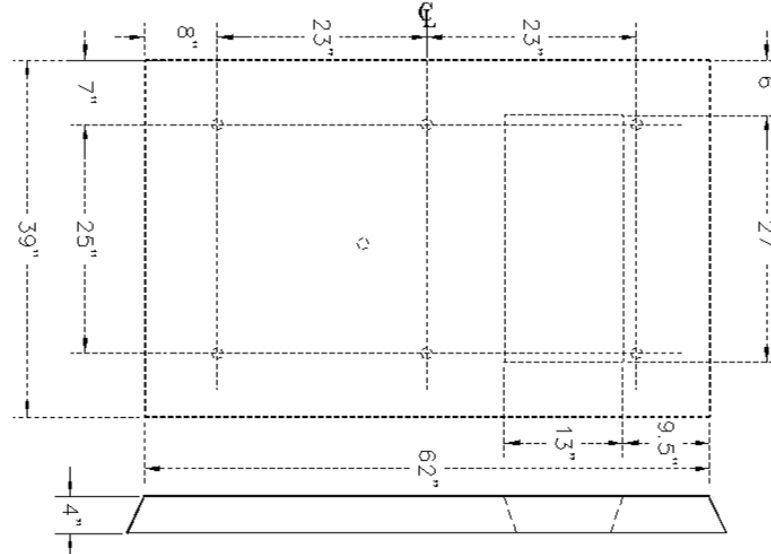
18.1 Primary Metering Cubicle



18.2 Standard Pad for Primary Cubicle



125056(P-94) PAD FOR MC-20000 3Ø PRIMARY CUBICLE



125055(P-93) PAD FOR MC-10000 1Ø PRIMARY CUBICLE

NOTES:

1. REINFORCE WITH #4 BARS WITH 12" GRID BELOW TOP OF PAD.
2. CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 POUNDS. PAD SHALL BE CURED NOT LESS THAN 72 HOURS.
3. AVERAGE WEIGHT OF P-94 PAD IS 4,850 LBS.
4. MANUFACTURER'S NAME/LOGO TO BE PERMANENTLY AFFIXED TO PAD.

STANDARD PAD FOR PRIMARY METERING CUBICLE

DRAWN BY	AAWB.	DATE	4/1/88	REVISIONS	11/17/06, 11/2/11,	GEORGIA POWER COMPANY
TRACED BY	AAWB.	SCALE	NONE			
APPROVED						

NOTES

19.0 GPC Meter and Socket Reference Documents

19.1 GPC Meter & Socket Selection Chart

<i>Service Type</i>	<i>Amps</i>	<i>Socket</i>		<i>Meter</i>
		<i>Old GPC Commodity</i>	<i>Maximo Commodity #</i>	
Single Phase 2-Wire, 120 Volt	Up to 100 A	M-2500	423728	Form 1S Class 100
Single Phase 3-Wire 120/240 Volt	Up to 225 A	M-2500 (Residential) M-2480* (Commercial)	423728 (Residential) 432761 (Commercial)	Form 2S Class 200
	226 – 400 A	M-2643	432777	Form 2S Class 320
	401 – 600 A	MC602 Transocket	433948	Form 5S Class 20
	Above 600 A	M-2400**	433955	Form 4S Class 20
Single Phase 3-Wire 120/208 Volt <small>This service consists of two energized conductors and the neutral from a 4-Wire WYE transformer. It is sometimes referred to as "Network" service.</small>	Up to 225 A	M-2480	432761	Form 12S*** Class 200
	226 – 400 A	M-2643	432777	Form 12S*** Class 320
	401 – 600 A	MC602 Transocket	433948	Form 35S (5S) Class 20
	Above 600 A	M-2391**	433952	Form 35S (5S) Class 20
Three Phase 4-Wire 120/208 Volt Wye 277/480 Volt Wye 120/240 Volt Delta	Up to 225 A	M-2650	431365	Form 16S Class 200
	226 – 400 A	M-2672	439634	Form 16S Class 320
	401 – 600 A	MC600 Transocket	431411	Form 9S Class 20
	Above 600 A	M-2392**	433953	Form 9S Class 20
Three Phase 3-Wire 240 Volt Delta 480 Volt Delta	Up to 225 A	M-2480****	432761	Form 12S Class 200
	226 – 600 A	MC602**** Transocket	433948	Form 35S (5S) Class 20
	Above 600 A	M-2391**	433952	Form 35S (5S) Class 20
Three Phase 3-Wire 600 Volt Delta	Any	M-2391**	433852	Form 35S (5S) Class 20 (With 5:1 VTs)

Note: All sockets listed above have steel enclosures. Aluminum versions are for use in coastal areas and are listed on the "Socket and Cabinet Sizes" chart on the reverse side of this page.

* The M-2480 socket is equipped with a bypass handle for commercial use.

These sockets are used in conjunction with either a CT cabinet or CTs mounted on an overhead bracket. The M-2090/123465 or M-2091/123466 cabinet may be used in place of the M-2400/433955, M-2391/433952, and M-2392/433953 transformer-rated sockets if it is desirable to have the meter fully enclosed.

*** The Form 2S meter cannot be used in place of the Form 12S meter because it will only register 75% of phase-to-neutral load on 120/208 volt service.

**** The bonding strap must be removed when these sockets are used on 3-Wire, 3-Phase Delta service to isolate the common phase from the meter socket enclosure.

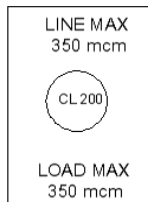
Class 100, 200, and 320 meters are self-contained meters. Class 20 meters are transformer-rated meters.

19.2 1-Phase, GPC Meter Base Socket Guide

GPC METER BASE SOCKET GUIDE SINGLE PHASE METER SOCKETS

RESIDENTIAL ONLY

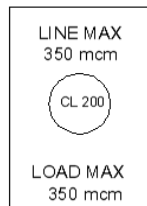
14H X 11W X 5D



< 225AMPS
432208 (AL)
432728 (ST)

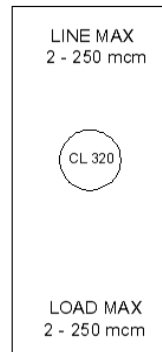
Commercial or 5th Terminal

19H X 13W X 5D



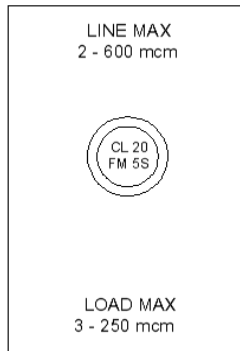
< 225 AMPS
432782 (AL)
432761 (ST)

28H X 12W X 5D



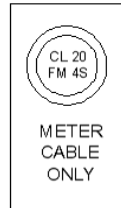
226 - 400 AMPS
432778 (AL)
432777 (ST)

25H X 35W X 11D



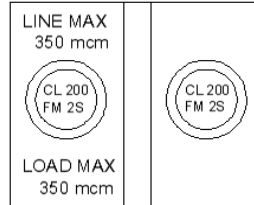
401 - 600 AMPS
433949 (AL)
433948 (ST)

17H X 12W X 4



> 600 AMPS
433958 (AL)
433959 (ST)

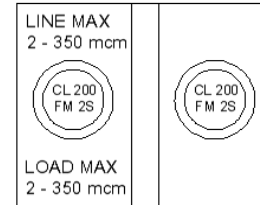
17H X 25W X 4



**150 AMPS PER
POSITION**
433950 UD (AL)
433950 OH (AL)

432776 UD (ST)
432776 OH (ST)

18H X 31W X 5



**200 AMPS PER
POSITION**
1279892 UG (AL)
1279894 OH (AL)

1001476 UG (ST)
1266107 OH (ST)

AL = ALUMINUM
ST = STEEL
SC = SELF CONTAINED
TR = TRANSFORMER RATED

* METER DEPT.
WILL DETERMINE
EQUIPMENT TO BE
ISSUED.

DRAWN BY: D.R.R. DATE: 10/18/16
TRACED BY: J.A.R. SCALE: NONE
APPROVED: _____

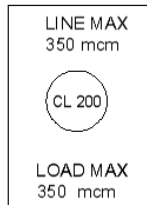
REVISIONS: 12/31/94, 1/1/97
7/22/99, 8/23/99, 3/4/02, 12/1/03
5/14/04, 9/17/06, 11/14/11

GEORGIA POWER COMPANY

19.3 3-Phase, GPC Meter Base Socket Guide

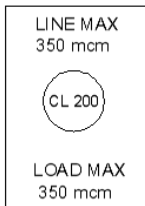
GPC METER BASE SOCKET GUIDE THREE PHASE METER SOCKETS

19H X 13W X 5D



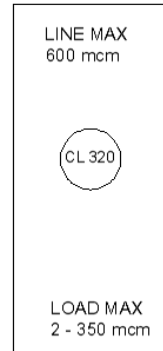
< 225 AMPS
432760 (AL)
431365 (ST)

19H X 13W X 5D



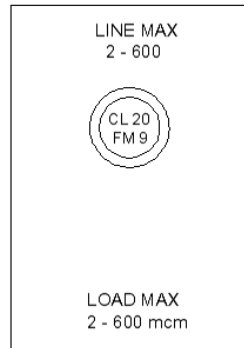
< 225 AMPS
123479 (AL)
439639 (ST)
WITH BYPASS HANDLE
AND ISOLATED NEUTRAL

31H X 16W X 6D



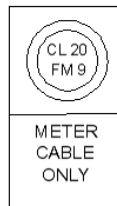
226 - 400 AMPS
1271496 (AL)
439634 (ST)
WITH BYPASS HANDLE
AND ISOLATED NEUTRAL

25H X 35W X 11D



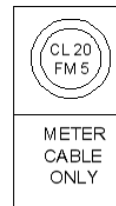
401 - 600 AMPS
431520 (AL)
431411 (ST)

17H X 12W X 4



> 600 AMPS
433954 (AL)
433953 (ST)

20H X 12W X 5



> 600 AMPS
433952 (ST)

AL = ALUMINUM
ST = STEEL

* METER DEPT.
WILL DETERMINE
EQUIPMENT TO BE
ISSUED.

DRAWN BY: D.R.R. DATE: 4/1/88
TRACED BY: J.A.R. SCALE: NONE
APPROVED: _____

REVISIONS: 12/31/94, 1/1/97,
7/22/99, 8/23/99, 3/4/02, 12/1/03
5/14/04, 9/17/06, 11/14/11

GEORGIA POWER COMPANY

19.4 Socket and Cabinet Sizes Table

SOCKET AND CABINET SIZES (All measurements in approximate inches unless stated in feet)					
ITEM DESCRIPTION	OLD GPC COMMODITY #	MAXIMO COMMODITY #	HEIGHT	WIDTH	DEPTH
METER CABINET – 14 GAUGE STEEL WITH HANGER	M-2090	123465	33	16	12 TO 13
METER CABINET – 14 GAUGE STEEL WITHOUT HANGER	M-2091	123466	33	16	12 TO 13
METER CABINET – ALUMINUM WITH HANGER	M-2092	123467	33	16	12
METER CABINET – ALUMINUM WITHOUT HANGER	M-2093	123468	33	16	12
METER CABINET – STEEL WITH MOUNTING BARS	M-2119	123469	40	25	12
METER CABINET – ALUMINUM WITH MOUNTING BARS	M-2120	123470	40	25	12
METER CABINET – ALUMINUM WITHOUT BARS	M-2121	123471	52	25	12
METER CABINET – 14 GAUGE STEEL	M-2122	123472	52	25	12
CT CABINET – STEEL – SINGLE PHASE	M-2240	439635	25	24	14
CT CABINET – ALUMINUM – SINGLE PHASE	M-2241	439636	25	24	14
CT CABINET – STEEL – THREE PHASE	M-2245	439637	36	32	14
CT CABINET – ALUMINUM – THREE PHASE	M-2246	439638	36	32	14
METER SOCKET – STEEL T/R 3W, 3PH, 8 TERMINAL	M-2391	433952	20	12	5
METER SOCKET – STEEL T/R 4W, 3 PH, 13 TERMINAL	M-2392	433953	20	12	4 3/8
METER SOCKET – ALUMINUM T/R 4W, 3 PH, 13 TERMINAL	M-2393	433954	20	12	4 3/8
METER SOCKET – STEEL T/R 3W, 1 PH 6 TERMINAL	M-2400	433955	20	12	4 3/8
METER SOCKET – STEEL T/R 3W, 1 PH, 6 TERMINAL W/HUB	M-2402	433957	17	12 3/10	4 7/8
METER SOCKET – ALUMINUM T/R 3W, 1 PH 6 TERMINAL W/HUB	M-2403	433958	17	12 3/10	4 7/8
METER SOCKET – STEEL S/C 3W, 1 PH, 200 AMP, 5 TERMINAL W/BYP	M-2480	432761	19	13	4 27/32
METER SOCKET – ALUMINUM S/C 3W, 1 PH, 200 AMP, 5 TERMINAL W/BYP	M-2481	432782	19	13	5
METER SOCKET – STEEL S/C 3W, 1 PH, 200 AMP, 4 TERMINAL	M-2500	423728	14 TO 16	11 TO 13	4 TO 5
METER SOCKET – ALUMINUM S/C 3W, 1 PH, 200 AMP, 4 TERMINAL	M-2505	432208	14 TO 16	11 TO 13	4 TO 5
METER SOCKET – 2 GANG STEEL S/C 3W, 1 PH, O/H OR U/G, 150A PER POSITION	M-2520	432776	17 3/8 TO 19	24 1/2 TO 25 9/32	4 1/8 TO 4 7/8
METER SOCKET – 2 GANG ALUMINUM S/C 3W, 1 PH, O/H OR U/G, 150A PER POSITION	M-2525	433950	17 3/8	25 9/32	4 7/8
METER SOCKET – 2 GANG STEEL S/C 3W, 1 PH, U/G ONLY, 200A PER POSITION (NEW)	M-2526	1001476	18	31	5 1/4
METER SOCKET – 2 GANG STEEL S/C 3W, 1 PH, O/H ONLY, 200A PER POSITION (NEW)	M-2528	1266107	18	31	5 1/4
METER SOCKET – STEEL 3W, 1 PH, 320 AMP, W/BYP	M-2643	432777	34 1/2 TO 36	16 TO 17 3/8	5 11/16 TO 6
METER SOCKET – ALUMINUM 3W, 1 PH, 320 AMP, W/BYP	M-2644	432778	28 TO 36	12 8/10 TO 17 1/4	5 TO 6
METER SOCKET – STEEL 4W, 3 PH 200 AMP, W/BYP	M-2650	431365	19	13	5
METER SOCKET – STEEL S/C 4W, 3 PH W/BYP ISOLATED NEUTRAL, 200 AMP	M-2652	439639	19	13	5
METER SOCKET – ALUMINUM 4W, 3 PH 200 AMP, W/BYP	M-2655	432760	19	13	5
METER SOCKET – ALUMINUM S/C 4W, 3 PH W/BYP ISOLATED NEUTRAL, 200 AMP	M-2657	123479	19	13	5
METER SOCKET – STEEL 4W, 3 PH 320 AMP W/BYP	M-2672	439634	31 1/8 TO 35 1/2	16 TO 20 1/4	6 TO 6 1/2
METER SOCKET – ALUMINUM 4W, 3 PH 320 AMP W/BYP	M-2676	1271496	31 1/8 TO 35 1/2	16 TO 20 1/4	6 TO 6 1/2
METER TRANSOCKET – STEEL 4W, 3 PH 13 TERMINAL	MC-600	431411	36	25	11 1/4
METER TRANSOCKET – ALUMINUM 4W, 3 PH 13 TERMINAL	MC-601	431520	36	25	11 1/4
METER TRANSOCKET – STEEL 3W, 1 PH 8 TERMINAL	MC-602	433948	36	25	11 1/4
METER TRANSOCKET – ALUMINUM 3W, 1 PH 8 TERMINAL	MC-603	433949	36	25	11 1/4
METER PULSE CAN - SMALL	MC-1000	123739	8	6	4 1/4
METER PULSE CAN - LARGE	MC-1001	123741	15 1/2	8	4 1/8
METER – CELL PHONE BOX	MC-1002	123742	23 7/8	16	5 3/8
METER CUBICLE – SINGLE PHASE PRIMARY	MC-10000	123740	54	31	54
METER CUBICLE – THREE PHASE PRIMARY	MC-20000	123746	54	79	54
METER PEDESTAL – CHANNEL IRON	P-976	435651	8 FT	6	2