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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

Russell L. Mullennix
Metroing Services Manager

Russell L. Mullennix
Distribution Operations & Services

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.

For proposed changes, please submit via e-mail at:

`gpcbluebook@southernco.com`

**BlueBook 2017 Committee Members**

Russell L. Mullennix, Manager, Metering Services
Mark Leach, Manager, Metering Services Engineering

Travis Jimperson, BlueBook Committee Chairman

Keith Reese  
Roger McDaniel  
Trent Christian  
Scott Gentry  
Joseph Redmond  
Mike McCowen  
John Foust  
James Pulliam  
James Whitlock

Bill Mulkey  
Will Ellis  
Neal Price  
Steve Owens  
Ronnie Burton  
Mitch Johnson  
Jennifer Santander  
Terry Penn
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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.
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

GROUNDING TERMINOLOGY

- **Grounded Conductor**
- **Bonding Jumpers**
- **Equipment Grounding Conductor**
- **Meter Socket**
- **Customer Equipment**
- **Grounding Electrode Conductor**
  - Can dead end but shall not pass thru meter can
- **Phone/Cable Ground Point**

DRAWN BY: J.A.B. DATE: 7/23/15
TRACED BY: 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, 9/17/08, 11/14/11

GEORGIA POWER COMPANY

BlueBook 2017 – Revision Date: March 13th, 2018
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CUSTOMER EQUIPMENT GROUNDING CONDUCTORS
SHOULD NOT CONNECT TO OR PASS THROUGH METER ENCLOSURES-EVEN WHEN A
SERVICE DISCONNECT IS AHEAD OF THE METERS.

"IT SHALL BE PERMISSIBLE TO GROUND METER ENCLOSURES TO THE GROUNDED CIRCUIT CONDUCTOR ON THE LOAD SIDE OF
THE SERVICE DISCONNECT IF:

(a) NO SERVICE GROUND-FAULT PROTECTION IS INSTALLED.
(b) ALL METERS ENCLOSURES ARE LOCATED IMMEDIATELY ADJACENT TO THE SERVICE
DISCONNECTING MEANS

NEC 250.142 (B) Exception No. 2
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.
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

* SERVICE DROPS INCLUDING DIP LOOPS SHALL HAVE CLEARANCES NOT LESS THAN THE FOLLOWING:

12 FT. – ABOVE SIDEWALKS AND AREAS SUBJECT TO PEDESTRIAN TRAFFIC ONLY.

15 FT. – ABOVE RESIDENTIAL DRIVEWAYS NOT SUBJECT TO TRUCK TRAFFIC.

16 FT. – ABOVE PUBLIC DRIVEWAYS, ALLEYS AND ROADS SUBJECT TO TRUCK TRAFFIC.

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 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
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 Service, Typical Temporary Installation

MARK METER SOCKET WITH LOT NUMBER 1" HIGH OF CONTRASTING COLOR IN ENAMEL PAINT WITH ADDRESS OR LOT NUMBER. NO PERMANENT MARKERS OR SHARPIES ACCEPTABLE.

SERVICE POST INSTALLATION

WEATHERPROOF SERVICE EQUIPMENT FURNISHED AND INSTALLED BY CUSTOMER.

RINGLESS METER SOCKET FURNISHED BY COMPANY AND INSTALLED BY CUSTOMER.

#6 (MIN.) GROUNDING ELECTRODE CONDUCTOR FURNISHED AND INSTALLED BY CUSTOMER.

2-1/2" CONDUIT FURNISHED AND INSTALLED BY CUSTOMER.

"4x4" TREATED POST, FURNISHED AND INSTALLED BY CUSTOMER.

CUSTOMER TO FURNISH AND INSTALL SUFFICIENT NUMBER AND SIZE CONDUIT.

TYPICAL LOCATIONS

FUTURE SERVICE LATERAL TO HOUSE

SERVICE LATERAL STUB-UP (UNDERGROUND CABLE MARKER)

SERVICE LATERAL

SERVICE LATERAL

TRANSFORMER PAD

TEMPORARY POLE NEEDS TO BE WITHIN 3FT FROM POWER SOURCE

TYPICAL UD INSTALLATION

DRAWN BY

AAW.B.

DATE

08/13/16

REVISIONS

7/14/89, 11/31/89

GEORGIA POWER COMPANY

TRACED BY

JAR

SCALE

NONE

APPROVED

8/22/99, 11/10/99, 10/3/06

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5.0 Residential Specifications

5.1 OH Service Clearances

service clearances

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5.2 Residential Underground Service Installation

NOTES:
1. CROSSHATCHED AREA DENOTES UNDISTURBED OR RE-COMPACTED SOIL DIRECTLY BENEATH CABLE (EXTENDING 36" MIN. FROM BUILDING) AND CONDUIT (OR ELBOW) TO PREVENT LATER SETTLING OF CABLE AND CONDUIT, FAILURE TO PROVIDE COMPACT SOIL MAY RESULT IN DAMAGE TO CABLES, CONDUIT AND METER SOCKET.

2. 2-1/2" CONDUIT (RIGID OR PVC) FURNISHED AND INSTALLED BY CUSTOMER.

3. IF THE CUSTOMER INTENDS TO PLACE A CONCRETE OR ASPHALT DRIVE BETWEEN THE METER AND SUPPLY TRANSFORMER HE SHALL INSTALL A 2.5" MINIMUM PVC CONDUIT, NOT LESS THAN 24" UNDER THIS SURFACE, DIRECTLY IN LINE WITH THE METER AND TRANSFORMER. TEMPORARY END CAPS SHALL BE PLACED ON THE CONDUIT. THE LOCATION OF ONE END SHALL BE FLAGGED FOR LOCATION PURPOSES.

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

MINIMUM 5" DIAMETER AT THE TOP OF POLE OR 6x6 TREATED POST FURNISHED AND INSTALLED BY CUSTOMER
1/4" Min. Galvanized Steel Guy to be Furnished by Customer if Necessary.

SERVICE DROP AND ATTACHMENT FURNISHED BY COMPANY

CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL NOT BE LESS THAN 3'-0' IN LENGTH AT WEATHERHEAD.

TREATED CLASS 5 POLE

METER EQUIPMENT 11111 TO BE MOUNTED WITH POLE MOUNTING BRACKETS LAG BOLTS ARE AVAILABLE

RINGLESS METER SOCKET FURNISHED BY CUSTOMER

METER BASES SHALL BE MARKED 10 NUMBERS HIGH OF CONTRASTING COLOR IN ENAMEL, PAINT OR ENGRAVED. TAG, PERMANENT MARKERS OR SHARPIES ARE NOT ACCEPTABLE

ALL WEATHER PROOF CIRCUIT BREAKER OR FUSED DISCONNECT FURNISHED BY CUSTOMER

GROUNDING ELECTRODE CONDUCTORS INSTALLED PER N.E.C. AND LOCAL CODES BY CUSTOMER. (MAY CONNECT TO EITHER THE TERMINAL IN THE METER BASE OR IN THE MAIN DISCONNECT, BUT NOT BOTH.)

CUSTOMER OWNED AND INSTALLED CONDUIT AND CONDUCTOR. AS PER N.E.C. AND LOCAL CODES.

DEPTH ACCORDING TO CURRENT N.E.C.

CUSTOMER TO FURNISH AND INSTALL SUFFICIENT NUMBER AND SIZE CONDUIT.

3-WIRE, OH SERVICE SERVICE (120/240V), CUSTOMER OWNED POLE

DRAWN BY A.A.W.B. DATE 12/31/94
TRACED BY O.G.B. SCALE NONE
APPROVED

GEORGIA POWER COMPANY

REVISIONS 1/1/97, 8/23/99
11/11/99, 1/15/00, 2/17/02
10/28/03, 5/14/04, 10/04/06

BlueBook 2017 – Revision Date: March 13th, 2018
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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.
6.1 2-Wire, OH Service, (120V), (100A or Less)

**Diagram:**
- **Line Wire Size Max:** 1/0
- **Conduit Furnished and Installed by Customer**
- **Service Entrance Conductors Furnished and Installed by Customer**
- **Meter Socket Hub Available at 1, 1-1/2, 2 and 2-1/2 Inch**
- **Jumper for 120V Two Wire Service**
- **4237758(M-2500) Socket**
- **Grounding Electrode Connector Terminal**
- **3'-6" to 5'-6" Above Final Grade Level**
- **Load Wire Size Max:** 250
- **Load**
- **Neutral**
- **Connector or Bushing**

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

3-Wire, OH Service, (120/240V or 120/208V), (225A or Less)
"Residential Only"
Company Owned Socket
6.3 3-Wire, OH Service, (120V-240V), (226A to 400A)

3-WIRE, OH SERVICE, (120/240V OR 120/208V),
(226A TO 400A)
COMPANY OWNED SOCKET

3'-6" TO 5'-6"
ABOVE FINAL
GRADE LEVEL

NOTE:
ALL 320 SOCKETS MUST HAVE A BY-PASS HANDLE

BY-PASS LEVER--
NOT A LOAD BREAKING DEVICE

GROUNDING ELECTRODE CONNECTOR TERMINAL

TWIN PORTHOLE HOLE RANGE: UP TO TWO - 250 MCM

COMPANY MAY USE 4/0 COMPRESSION TUBULAR TO FIT 1/2" HOLE, ON LINE SIDE FOR LINE SIDE AND NEUTRAL.

*NOTE
NEUTRAL BLOCK MAY BE BUILT IN CENTER POSITION

PARALLEL LOAD CONDUCTORS SHOWN FOR PURPOSES OF ILLUSTRATION.

432777 (M-2643)
SOCKET MAY BE USED FOR NETWORK (3 Ω, 3 W, 120/208 Y SERVICE)
"WHEN USED FOR 120/208V Y SERVICE A FIFTH TERMINAL METER JAW IS REQUIRED"

3', 3 1/2", OR 4" METER SOCKET HUB

SOCKET COMES EQUIPPED WITH TWIN PORTHOLE CONNECTORS FOR #4 TO 250 MCM ON THE LOAD SIDE.
6.4 3-Wire, OH Service, (120V-240V), (401A to 600A)

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, 1 PHASE OH SERVICE, TRANSOCKET, WALL MOUNTED, 120/240V OR 120/208V (401A TO 600A)
6.5 3-Wire, OH Service, (120V-240V), (225A or Less), “Commercial Only”

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

LINE WIRE SIZE MAX 1/0

JUMPER FOR 120V TWO WIRE SERVICE

GROUNDING ELECTRODE CONDUCTOR TERMINAL DRAWING

LOAD SIDE ENTRANCE CONDUCTORS FURNISHED AND INSTALLED BY CUSTOMER

CONNECTOR OR BUSHING

INSTALL LOCK NUT AND BUSHING

2 1/2" CONDUIT FURNISHED AND INSTALLED BY CUSTOMER.

LOAD WIRE SIZE MAX 250

SERVICE LATERAL CONDUCTORS FURNISHED AND INSTALLED BY COMPANY

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

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

DRAWN BY A.A.W.B  DATE 9/13/15  REVISIONS: 2/31/92, 7/26/99, GEORGIA POWER COMPANY
TRACED BY JR  SCALE: NONE  10/25/93, 9/18/98, 11/1/11
APPROVED
3-Wire, UD Service, *(10-240V or 120-208V), (225A or Less)*

"Residential Only"

Customer Owned Socket
3-Wire, UD Service, (120V-240V), (226A to 400A)

**NOTE**
Neutral block may be built in center position.

**Socket Commodity** # 432777 (M-2643)
May be used for network (3 φ, 3 W, 120/208 Y service)

"When used for 120/208Y service a fifth terminal, meter jaw is required."

**By-Pass Lever**
Not a load breaking device.

**Line Side Wire Size Max**
250 MCM

**Load Side Wire Size Max**
250 MCM

3'-6" to 5'-6"
Above final grade level

**Note:**
All 320 sockets must have a by-pass handle.

Conduit furnished and installed by customer in the left or right bottom knockout provided.

**3-Wire, UD Service, (120/240V or 120/208V), (226A to 400A)**
Company owned socket.
3-Wire, UD Service, (120V-240V), (401A to 600A)
7.5 3-Wire, UD Service, (120V-240V), (225A or Less), “Commercial Only”

COMMERCIAL 3-WIRE, UD SERVICE, (120/240V OR 120/208V), (225A OR LESS)
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)

NOTES:
1. ON DELTA INSTALLATION NO 3 POSITION ("C" PHASE) MUST BE POWER LEG
2. CONDUIT SHALL ENTER SOCKET THROUGH LEFT OR RIGHT (SHOWN) KNOCKOUT BUT NOT THROUGH CENTER KNOCKOUT.

4-WIRE, 3-PHASE, UD SERVICE, (225A OR LESS)
4-Wire, 3-Phase, UD Service, (277/480V), (225A or Less)
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.
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

TOP SECTION SEALABLE-
SEPARATE COVERS
FOR TOP AND BOTTOM
SECTIONS

TROUGH
SECURED INSIDE
METER SECTION

BACK TO FRONT
MINIMUM DEPTH
3-1/2" FOR TROUGH

UP TO 3" KNOCKOUT
SEALABLE TROUGH LIP

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.
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)
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.

5. 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).

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.
9.1 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: B.H.     DATE: 06/13/15     REVISIONS: 01/19/07
TRACED BY: J.A.R.     SCALE: NONE     GEORGIA POWER COMPANY
APPROVED: B.H.
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

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: BHH DATE: 08/13/15
TRACED BY: JAR SCALE: 1/4
REVISED: 9/19/09, 6/11
GEORGIA POWER COMPANY
9.3 3-Wire, UD Service, Customer Furnished, (120V-240V)

**NOTES:**
1. Post, raceway, and stabilizer foot shall be galvanized steel and painted. Post must be 12 gauge galvanized steel.
2. Socket shall be of ringless design and have separate cover for meter.

**CUSTOMER FURNISHED 3-WIRE UD SERVICE**
(120/240V OR 120/208V)
3-WIRE, UD SERVICE, (120/240V OR 120/208V),
(225A OR LESS), (CUSTOMER OWNED SOCKET)
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.
10.1 3-Wire, OH Service, Duplex Socket, (120/240V or 120/208V)

NOTES:
1. FOR OVERHEAD SERVICE ONLY.
2. "WHEN USED FOR 120/208V Y SERVICE,
   A FIFTH TERMINAL METER JAW IS REQUIRED.

METER SOCKET HUB FURNISHED
BY COMPANY AND INSTALLED
BY CUSTOMER.
METER SOCKETS SHALL BE RINGLESS

DUPLEX METER SOCKET
(31-7/16” x 18” x 5-3/4”)

CUSTOMERS SERVICE ENTRANCE
CONDUCTORS (CUSTOMER TO
WIRE BRUSH AND APPLY
NON-GRIT INHIBITOR.)
APPLY NON-GRIT
INHIBITOR.
LINE SIDE BUSS
STAINLESS STEEL
1/2" FLAT WASHER.
3/4" SPRING WASHER/NUT
(CAPTIVE) - "BELLEVILLE"
TORQUE TO 200 IN.LBS.

3'-6" TO 5'-6"
ABOVE FINAL
GRADE LEVEL

FINAL GRADE

LINE - SIDE CONNECTIONS
3-WIRE, OH SERVICE ONLY, (120/240V OR 120/208V),
DUPLEX METER SOCKET - 200A PER POSITION

DRAWN BY JR DATE 06/13/15
TRACED BY SCALE NONE
APPROVED

REVISIONS 0 GEORGIA POWER COMPANY
10.2 3-Wire, UD Service, Duplex Socket, (120/240V or 120/208V)

**Notes:**
1. Unit for underground service only.
2. A fifth terminal meter jaw is required when used for 120/208V Y service.

**3-Wire, UD Service, (120/240V or 120/208V), Duplex Meter Socket - 200A Per Position**

**Diagram Details:**
- **Permanent Steel Barrier**
- **Meter Socket Shall Be Ringless Design**
- **Duplex Meter Socket** (31'-7/16" x 18" x 5'-3/4")
- **Connectors Not Provided**
- **(4) Nema Spaced Studs Per Phase**
- **Apply Non-Grit Inhibitor**
- **3/4" Spring Washer/Nut (Captive) - "Belleville" to Manufacturer Specs**
- **Stainless Steel 1/2" Flat Washer**
- **Line-Side Buss**
- **Compression Connector**

**Other Details:**
- **Permanent Address in Enamel Paint or Engraved Tag**
- **No Permanent Markers or Sharpies**
10.3 3-Wire, OH Service, Duplex Socket, (120/240V), (225A or Less)

**MINIMUM 5" DIAMETER AT TOP OF POLE OR 8" X 6" POST**

**SERVICE DROP AND ATTACHMENT FURNISHED BY COMPANY**

**CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL NOT BE LESS THAN 3'-0" IN LENGTH AT WEATHERHEAD.**

**SERVICE DROPS INCLUDING DRIp LOOPS SHALL HAVE CLEARANCES NOT LESS Than THE FOLLOWING:**

- 12 FT. - ABOVE SIDEWALKS AND AREAS SUBJECT TO PEDESTRIAN TRAFFIC ONLY.
- 15 FT. - ABOVE RESIDENTIAL DRIVEWAYS NOT SUBJECT TO TRUCK TRAFFIC.
- 16 FT. - ABOVE PUBLIC DRIVEWAYS, ALLEYS AND ROADS SUBJECT TO TRUCK TRAFFIC.

**METER EQUIPMENT TO BE MOUNTED WITH SUBSTANTIAL STEEL BRACKETS OR WOODEN POLE MOUNTING BRACKETS- CONFORM 2003 LAG BOLTS ARE AVAILABLE**

**3'-6" MIN. 6'-6" MAX. ABOVE FINAL GRADE LEVEL**

**CUSTOMER OWNED CONDUIT AND CONDUCTOR.**

**GROUNDING ELECTRODE CONDUCTORS INSTALLED PER N.E.C. AND LOCAL CODES**

**DEPTH ACCORDING TO CURRENT N.E.C.**

**CUSTOMER TO FURNISH AND INSTALL SUFFICIENT NUMBER AND SIZE CONDUIT.**

**GENERAL NOTES:**

1. BREAKER CENTER (SHOWN) FURNISHED AND INSTALLED BY CUSTOMER. METER SOCKET RATING SHALL BE SUFFICIENT FOR LOAD SERVED BUT NOT LESS THAN 125 AMPS.
2. EACH METER POSITION MUST CLEARLY IDENTIFY ADDRESS AND LOT NUMBER. (XXX)

**3-WIRE, OH SERVICE, DUPLEX SOCKET (120/240V), CUSTOMER OWNED POLE**
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.

6. Entrance Doors, and Breaker Panels shall be marked with a Permanent address.

7. Meter socket and conduit shall be surface mounted.

8. 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.
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)
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.
3-Wire, UD Service, (120V-240V), (Above 6 Pos.)

**NOTE:**
1. All sockets shall be ringless design.
2. All sockets used on commercial applications shall have a by-pass handle.
3. Customer must meet clearances as noted on clearances for customer owned meter centers.
4. No sharpies or permanent markers allowed.

3-WIRE, UD, (120/240V OR 120/208V), (ABOVE 6 POS.), (CUSTOMER OWNED)
11.4 1-Phase, UD Service, Termination Facilities for Multi-Position Socket Installations

SECTION VIEW "A"

SID VIEW  
SINGLE POSITION (400 AMP MAX.)

FRONT VIEW  
MULITIPLE POSITION  
(800 AMP MAX.)

MULTIPLE POSITION  
(1000 AMP MAX.)

MULTIPLE POSITION  
(1200 AMP MAX.)

10 UNDERGROUND LINE - SIDE SERVICE TERMINATION FACILITIES FOR MULTI-POSITION SOCKET INSTALLATIONS

Spacing Requirements for Terminating Facilities

Over 800 Amps load, this will change.

DRAWN BY: A.A.B.B.        DATE: 4/1/88
TRACED BY: D.O. BALEY      SCALE: 1/4" = 1'-0"
APPROVED: GEORGIA POWER COMPANY

Revisions: 12/31/89, 8/15/99
11.5 Clearance for Customer Owned Meter Centers

NOTES:

1. DIMENSIONS "B", "C" AND "D" SHALL BE MAINTAINED ALONG WITH UNOBSERVED WORKSPACE IN FRONT OF METERS EVEN WITH CABINET DOORS FULLY OPENED, OR TO THE REQUIRED STOP POINT (90% FOR EXAMPLE).

2. UNOBSERVED WORKSPACE REQUIREMENTS SHALL BE THE SAME AS SHOWN IN CLEARANCE DRAWINGS.

3. ALL SOCKETS USED ON 208V/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 A.A.HB. DATE 4/7/08
TRACED BY D.O. BAILEY SCALE NONE
APPROVED

GEORGIA POWER COMPANY

REVISED: 2/31/02, 8/23/99
03/02/00, 09/16/03, 04/14/07
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.
12.1 4-Wire, 3-Phase, Transocket, OH Service (401A to 600A)

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.
5. EACH SOCKET POSITION AND CORRESPONDING BUILDING UNIT SHALL BE
   PERMANENTLY LABELED WITH ENAMEL PAINT. METER SOCKET SHALL
   BE LABELED BOTH INSIDE AND OUTSIDE

4-WIRE, 3-PHASE, TRANSOCKET, OH SVC.,
(401A TO 600A)
12.2 4-Wire, 3-Phase, OH to OH, Customer Pole

4-WIRE, 3-PHASE, OH TO OH, (SERVICE FROM 401A TO 600A), (CUSTOMER OWNED POLE)
12.3 4-Wire, 3-Phase, OH to UD, Customer Pole

- Insulator and clevis furnished and installed by company.
- Company service drop.
- Service entrance conductor shall not be less than 3'-0" in length.
- Vertical clearance requirement as specified in Drawing 4.1.
- Class 5 pole, pressure treated, furnished and installed by customer.
- Weatherhead rack and service wires furnished and installed by customer.
- 123602 (WB-1018) mounting bracket furnished with cabinet by company—installed by customer.
- Grounding electrode conductor terminal.
- Transsocket.
- Line —
- Load —
- Not less than 1'-6".
- Transsocket w/cover removed.
- Customer ground rod with clamp.
- Customer to furnish and install conduit and service lateral.

4-WIRE, 3-PHASE, OH TO UD, (SERVICE FROM 226A TO 600A), (CUSTOMER OWNED POLE)

DRAWN BY PA  DATE 4/29/99
TRACED BY SCALE NONE
APPROVED M. BURFORD

REVISIONS 5/2/99, 1/13/00
2/18/02, 3/4/02, 5/17/04
2/27/07, 1/13/12

BlueBook 2017 – Revision Date: March 13th, 2018
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12.4 4-Wire, 3-Phase, CT Transocket, on Pedestal

**NOTES:**
1. CUSTOMER RESPONSIBLE FOR LINE AND LOAD CONNECTIONS IN TRANSOCKET.
2. CUSTOMER TO INSTALL PEDESTALS.

**COMMODITY#**
123602 (MB-1018) MOUNTING BRACKET

**TRANSOCKET W/Cover REMOVED**

**30 PADMOUNT TRANSFORMER**

**GROUNDING ELECTRODE CONDUCTOR TERMINAL**

**LINE SIDE**

**LOAD SIDE**

**2"x6"x8' CHANNEL**

**MC-600 (431411) TRANSOCKET**

**NOT LESS THAN 1'-6'**

**NOT LESS THAN 2'-0'**

**CUSTOMER GROUND ROD WITH CLAMP**

**CONCRETE**

**CUSTOMER TO FURNISH AND INSTALL CONDUIT AND SERVICE LATERAL**

**FINAL GRADE LEVEL**

**TO CUSTOMER**

**4-WIRE, 3-PHASE, TRANSOCKET ON PEDESTAL, UD XFMCR., (401A TO 600A)**
NOTES:
1. METER SOCKET MOUNTED OUTDOORS.
2. COMPANY TO MAKE ALL SERVICE LATERAL CONNECTIONS AT POLE OR PADMOUNT TRANSFORMER.
3. CUSTOMER TO MAKE ALL LOAD SIDE CONNECTIONS IN TRANSOCKET.
4. CUSTOMER TO MAKE LINE SIDE CONNECTIONS UNLESS COMPANY INSTALLS SERVICE CONDUCTORS.
5. METER SOCKET SHALL BE MOUNTED ON THE BUILDING.

4-WIRE, 3-PHASE, TRANSOCKET,
(SERVICE FROM 401A TO 600A),
WALL MOUNT, PER SVC. POINT
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. Note: A disconnect device is only required for installations on the Company approved programs, excluding RNR.
13.1 Residential Option #1

DISTRIBUTED GENERATION - RESIDENTIAL
SINGLE DIRECTIONAL CONTRACT - OPTION 1

CUSTOMERS SELLING ALL OF THEIR SOLAR GENERATION TO GEORGIA POWER THROUGH SP PROGRAM
DUAL GANG METER SOCKET GEORGIA POWER METERING SERVICES
UNDER GROUND ONLY OR OVER HEAD ONLY
TYPICAL SINGLE PHASE RESIDENTIAL SERVICE

NEW SOLAR METER SOCKET
BIDIRECTIONAL PROGRAMMED METER

DISCONNECT ADJACENT TO METER BASE (MUST BE ACCESSIBLE)

UL 1741
INVERTER
25kW MAX
PVCELL

HOUSE

DRAWN BY PA DATE 03/11/10
TRACED BY SCALE NONE
APPROVED

REVISIONS 01/24/11, 02/19/11, 02/20/12
GEORGIA POWER COMPANY

BlueBook 2017 – Revision Date: March 13th, 2018
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SINGLE DIRECTIONAL CONTRACT - OPTION 2
RESIDENTIAL - DISTRIBUTED GENERATION
2-METER SOCKET CONFIGURATION

CUSTOMERS SELLING ALL OF THEIR SOLAR GENERATION TO GEORGIA POWER THROUGH AN APPROVED PROGRAM

NOTES:
1. SOLAR METER CONNECTION CAN BE MADE IN STANDARD METER SOCKET DEPENDING ON SOCKET WIRE CONNECTION DESIGN. IF DESIGN DOES NOT ALLOW FOR THIS CONNECTION, IT CAN BE MADE AT WEATHERHEAD.

2. TWO INDIVIDUAL METER SOCKETS (1 STANDARD METER, 1 SOLAR METER)
13.3 Residential Option #3

DISTRIBUTED GENERATION - RESIDENTIAL
SINGLE DIRECTIONAL CONTRACT - OPTION 3

NOTES:
1. Solar meter connection can be made in
standard meter socket depending on socket
wire connection design.
2. Two individual meter sockets (1 standard meter, 1 solar meter)

CUSTOMERS SELLING ALL OF THEIR SOLAR GENERATION TO GEORGIA POWER THROUGH AN APPROVED PROGRAM

SINGE DIRECTIONAL CONTRACT - OPTION 3
RESIDENTIAL (SP) - DISTRIBUTED GENERATION

HOUSE

NEW SOLAR METER SOCKET

BIDIRECTIONAL METER

DISCONNECT ADJACENT TO METER BASE (MUST BE ACCESSIBLE)

UL 1741

INVERTER

PV CELL

WIRE TOUICH
(HERRIFAN BOX EQUIVALENT)

GFCI SERVICE

GFCI TRANSFORMER

TYPICAL SINGLE-PHASE RESIDENTIAL SERVICE
EXISTING BILLING METER SOCKET

STANDARD RESIDENTIAL METER

CUSTOMER WIRE

TROUGH SHOULD BE CAPABLE OF RECEIVING COMPANY SEAL

DRAWN BY: 
DATE: 08/21/2013
REVISIONS:

TRACED BY: 
SCALE: NONE

APPROVED:

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13.4 Residential Bi-Directional Contract
13.5 Commercial (Self-Contained)
SINGLE DIRECTIONAL CONTRACT
COMMERCIAL (SP) - DISTRIBUTED GENERATION
2-METER CONFIGURATION (TRANSFORMER RATED)

CUSTOMERS SELLING ALL OF THEIR SOLAR GENERATION TO
GEORGIA POWER THROUGH AN APPROVED SP PROGRAM

NOTES:
1. SOLAR METER CONNECTION MUST BE MADE
ON THE LINE SIDE OF THE CURRENT TRANSFORMERS
OF THE STANDARD METER.
2. TWO INDIVIDUAL METER SOCKETS: 1 (TRANSFORMER RATED)
STANDARD METER, 1 (SELF-CONTAINED) SOLAR METER.

COMMERCIAL BUILDING

DISTRIBUTED GENERATION-COMMERCIAL
TRANSFORMER RATED

SINGLE DIRECTIONAL CONTRACT
TRANSFORMER RATED

GFC TRANSFORMER

OH WEATHERHEAD

EXISTING BILLING METER SOCKET
(TRANSFORMER-RATED)

STANDARD COMMERCIAL METER

CURRENT TRANSFORMERS
FOR BILLING METER

NEW SOLAR METER SOCKET
(SELF-CONTAINED)

UL 1741 INVERTER

PV CELL
BI-DIRECTIONAL CONTRACT AND NON PROGRAM PARTICIPANT COMMERCIAL (RNR) - DISTRIBUTED GENERATION SINGLE METER CONFIGURATION

CUSTOMERS SELLING EXCESS SOLAR GENERATION TO GEORGIA POWER THROUGH BI-DIRECTIONAL METER AT AVOIDED COST OR ONLY OFFSETTING KWH USAGE.
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

THIS LABEL IS TO BE INSTALLED ON METER SOCKET
### 14.1 GPC Meter & Socket Selection Chart

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

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 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.

*** 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.
14.2 1-Phase, GPC Meter Base Socket Guide

GPC Meter Base Socket Guide

Single Phase
Meter Sockets

Residential only

14H X 11W X 5D

<table>
<thead>
<tr>
<th>LINE MAX</th>
<th>LOAD MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 mcmm</td>
<td>350 mcmm</td>
</tr>
</tbody>
</table>

Less than 225 Amps

432208 (AL)
432728 (ST)

Commercial or 5th Terminal

19H X 13W X 5D

<table>
<thead>
<tr>
<th>LINE MAX</th>
<th>LOAD MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 mcmm</td>
<td>350 mcmm</td>
</tr>
</tbody>
</table>

Less than 225 Amps

432782 (AL)
432761 (ST)

226-400 Amps

432778 (AL)
432777 (ST)

2SH X 3SW X 11D

<table>
<thead>
<tr>
<th>LINE MAX</th>
<th>LOAD MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 - 600 mcmm</td>
<td>3 - 250 mcmm</td>
</tr>
</tbody>
</table>

401-600 Amps

433949 (AL)
433948 (ST)

Greater than 600 Amps

433958 (AL)
433959 (ST)

* Meter Dept. will determine equipment to be issued.

17H X 12W X 4

<table>
<thead>
<tr>
<th>LINE MAX</th>
<th>METER CABLE ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 mcmm</td>
<td>CL 200, PM 45</td>
</tr>
</tbody>
</table>

150 Amp per position

433950 UD (AL)
433950 OH (AL)

432776 UD (ST)
432776 OH (ST)

18H X 31W X 5

<table>
<thead>
<tr>
<th>LINE MAX</th>
<th>LOAD MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 - 350 mcmm</td>
<td>CL 200, PM 25</td>
</tr>
</tbody>
</table>

200 Amp per position

1279892 UG (AL)
1279894 OH (AL)

1001476 UG (ST)
1266107 OH (ST)

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

DRAWN BY: D.R. DATE: 10/19/16
TRACED BY: J.A.R SCALE: NONE
APPROVED: 12/01/19, 1/14/97, 7/13/94, 8/23/95, 3/4/92, 12/1/93
REVISIONS: 5/14/04, 9/17/06, 11/14/11

GEORGIA POWER COMPANY
### 14.3 Socket and Cabinet Sizes Table

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>OLD GPC COMMUNITY #</th>
<th>MAXIMO COMMUNITY #</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>METER CABINET – 14 GAUGE STEEL WITH HANGER</td>
<td>M-2090</td>
<td>123465</td>
<td>33</td>
<td>16</td>
<td>12 TO 13</td>
</tr>
<tr>
<td>METER CABINET – 14 GAUGE STEEL WITHOUT HANGER</td>
<td>M-2091</td>
<td>123466</td>
<td>33</td>
<td>16</td>
<td>12 TO 13</td>
</tr>
<tr>
<td>METER CABINET – ALUMINUM WITH HANGER</td>
<td>M-2092</td>
<td>123467</td>
<td>33</td>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td>METER CABINET – ALUMINUM WITHOUT HANGER</td>
<td>M-2093</td>
<td>123468</td>
<td>33</td>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td>METER CABINET – STEEL WITH MOUNTING BARS</td>
<td>M-2119</td>
<td>123469</td>
<td>40</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>METER CABINET – ALUMINUM WITH MOUNTING BARS</td>
<td>M-2120</td>
<td>123470</td>
<td>40</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>METER CABINET – ALUMINUM WITHOUT BARS</td>
<td>M-2121</td>
<td>123471</td>
<td>52</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>METER CABINET – 14 GAUGE STEEL</td>
<td>M-2122</td>
<td>123472</td>
<td>52</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>CT CABINET – STEEL – SINGLE PHASE</td>
<td>M-2240</td>
<td>439635</td>
<td>25</td>
<td>24</td>
<td>14</td>
</tr>
<tr>
<td>CT CABINET – ALUMINUM – SINGLE PHASE</td>
<td>M-2241</td>
<td>439636</td>
<td>25</td>
<td>24</td>
<td>14</td>
</tr>
<tr>
<td>CT CABINET – STEEL – THREE PHASE</td>
<td>M-2245</td>
<td>439637</td>
<td>36</td>
<td>32</td>
<td>14</td>
</tr>
<tr>
<td>CT CABINET – ALUMINUM – THREE PHASE</td>
<td>M-2246</td>
<td>439638</td>
<td>36</td>
<td>32</td>
<td>14</td>
</tr>
<tr>
<td>METER SOCKET – STEEL T/R 3W, 3 PH, 8 TERMINAL</td>
<td>M-2391</td>
<td>439352</td>
<td>20</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td>METER SOCKET – STEEL T/R 4W, 3 PH, 13 TERMINAL</td>
<td>M-2392</td>
<td>439353</td>
<td>20</td>
<td>12</td>
<td>4 3/8</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM T/R 4W, 3 PH, 13 TERMINAL</td>
<td>M-2393</td>
<td>439354</td>
<td>20</td>
<td>12</td>
<td>4 3/8</td>
</tr>
<tr>
<td>METER SOCKET – STEEL T/R 3W, 1 PH 6 TERMINAL</td>
<td>M-2400</td>
<td>439355</td>
<td>20</td>
<td>12</td>
<td>4 3/8</td>
</tr>
<tr>
<td>METER SOCKET – STEEL T/R 3W, 1 PH 6 TERMINAL W/HUB</td>
<td>M-2402</td>
<td>439357</td>
<td>17</td>
<td>12 3/16</td>
<td>4 7/8</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM T/R 3W, 1 PH 6 TERMINAL W/HUB</td>
<td>M-2403</td>
<td>439358</td>
<td>17</td>
<td>12 3/16</td>
<td>4 7/8</td>
</tr>
<tr>
<td>METER SOCKET – STEEL S/C 3W, 1 PH, 200 AMP, 5 TERMINAL W/BYP</td>
<td>M-2409</td>
<td>432761</td>
<td>19</td>
<td>13</td>
<td>4 27/32</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM S/C 3W, 1 PH, 200 AMP, 5 TERMINAL W/BYP</td>
<td>M-2410</td>
<td>432762</td>
<td>19</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>METER SOCKET – STEEL S/C 3W, 1 PH, 200 AMP, 4 TERMINAL</td>
<td>M-2500</td>
<td>432728</td>
<td>14 TO 16</td>
<td>11 TO 13</td>
<td>4 TO 5</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM S/C 3W, 1 PH, 200 AMP, 4 TERMINAL</td>
<td>M-2505</td>
<td>432208</td>
<td>14 TO 16</td>
<td>11 TO 13</td>
<td>4 TO 5</td>
</tr>
<tr>
<td>METER SOCKET – 2 GANG STEEL S/C 1W, 1 PH, O/H OR U/G, 150A PER POSITION</td>
<td>M-2520</td>
<td>432776</td>
<td>17 3/8 TO 19</td>
<td>24 1/8 TO 25 5/32</td>
<td>4 1/8 TO 4 7/8</td>
</tr>
<tr>
<td>METER SOCKET – 2 GANG ALUMINUM S/C 1W, 1 PH, O/H OR U/G, 150A PER POSITION</td>
<td>M-2525</td>
<td>433950</td>
<td>17 3/8</td>
<td>25 9/32</td>
<td>4 7/8</td>
</tr>
<tr>
<td>METER SOCKET – 2 GANG STEEL S/C 1W, 1 PH, U/G ONLY, 200A PER POSITION (NEW)</td>
<td>M-2526</td>
<td>1001476</td>
<td>18</td>
<td>31</td>
<td>5 3/8</td>
</tr>
<tr>
<td>METER SOCKET – 2 GANG STEEL S/C 1W, 1 PH, O/H ONLY, 200A PER POSITION (NEW)</td>
<td>M-2528</td>
<td>1066107</td>
<td>18</td>
<td>31</td>
<td>5 3/8</td>
</tr>
<tr>
<td>METER SOCKET – STEEL S/C, 1 PH, 320 AMP, W/BYP</td>
<td>M-2643</td>
<td>432777</td>
<td>34 3/8 TO 36</td>
<td>16 TO 17 3/8</td>
<td>5 11/16 TO 6</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM S/C, 1 PH, 320 AMP, W/BYP</td>
<td>M-2644</td>
<td>432778</td>
<td>35 3/8 TO 36</td>
<td>12 8/10 TO 17 3/8</td>
<td>5 TO 6</td>
</tr>
<tr>
<td>METER SOCKET – STEEL 4W, 3 PH, 200 AMP, W/BYP</td>
<td>M-2650</td>
<td>431365</td>
<td>19</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>METER SOCKET – STEEL S/C 4W, 3 PH, W/BYP ISOLATED NEUTRAL, 200 AMP</td>
<td>M-2652</td>
<td>439639</td>
<td>19</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM 4W, 3 PH 200 AMP, W/BYP</td>
<td>M-2655</td>
<td>432760</td>
<td>19</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM S/C 4W, 3 PH W/BYP ISOLATED NEUTRAL, 200 AMP</td>
<td>M-2657</td>
<td>123479</td>
<td>19</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>METER SOCKET – STEEL 4W, 3 PH 320 AMP W/BYP</td>
<td>M-2672</td>
<td>439634</td>
<td>31 1/8 TO 35 3/8</td>
<td>16 TO 20</td>
<td>6 TO 6 1/2</td>
</tr>
<tr>
<td>METER SOCKET – ALUMINUM 4W, 3 PH 320 AMP W/BYP</td>
<td>M-2676</td>
<td>1271496</td>
<td>31 1/8 TO 35 3/8</td>
<td>16 TO 20</td>
<td>6 TO 6 1/2</td>
</tr>
<tr>
<td>METER TRANS SOCKET – STEEL 4W, 3 PH 13 TERMINAL</td>
<td>MC-400</td>
<td>431411</td>
<td>36</td>
<td>25</td>
<td>11 1/2</td>
</tr>
<tr>
<td>METER TRANS SOCKET – ALUMINUM 4W, 3 PH 13 TERMINAL</td>
<td>MC-401</td>
<td>431520</td>
<td>36</td>
<td>25</td>
<td>11 1/2</td>
</tr>
<tr>
<td>METER TRANS SOCKET – STEEL 3W, 1 PH 8 TERMINAL</td>
<td>MC-402</td>
<td>433948</td>
<td>36</td>
<td>25</td>
<td>11 1/2</td>
</tr>
<tr>
<td>METER TRANS SOCKET – ALUMINUM 3W, 1 PH 8 TERMINAL</td>
<td>MC-403</td>
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<td>METER PULSE CAN – SMALL</td>
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<td>123739</td>
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<td>METER PULSE CAN – LARGE</td>
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<td>METER – CELL PHONE BOX</td>
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<td>METER CUBICLE – SINGLE PHASE PRIMARY</td>
<td>MC-10000</td>
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<td>METER PEDESTAL – CHANNEL IRON</td>
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<td>436561</td>
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