

## Customer Checklist

Oncor Electric Delivery (Oncor) appreciates the opportunity to serve your project needs and is determined to provide you with the best customer experience. In order to meet all your expectations and electric service deadlines, Oncor will need all the required documents/plans necessary to begin the engineering process.

Below you will find a checklist of items that will help you and Oncor throughout this process. If you have any questions or concerns about the checklist, please contact your Oncor Project Manager (PM) to further assist you.

- ☐ **First Things First: Temporary Power:** (     /     /     )
  - ☐ Obtain your ESI ID (Electric Service Identification Number) for your temporary service by contacting your Oncor PM and providing the correct physical address.
  - ☐ Send a marked up site plan to the Oncor PM that identifies where your point-of-delivery (meter locations) will be for your temporary service.
  - ☐ Send the completed Oncor electrical load form(s) to the Oncor PM for review.
  - ☐ Oncor electrical load forms & guidelines can be found at the following web link: <http://www.oncor.com/EN/Pages/Construction-Guidelines.aspx>
  - ☐ One electrical load form will be needed for each voltage and phase type. (e.g. – trailer power 1Ø 120/240, construction power 3Ø 120/208, and/or crane power 3Ø 277/480; will require three separate load forms)
- ☐ **Engineering** (     /     /     )
  - ☐ Provide Oncor PM with civil and electrical plans (plat, site plan, riser diagram, electric panel schedule, etc.)
    - Provide a plan with the preferred transformer location and points-of-delivery.
  - ☐ Provide Oncor PM with completed Oncor electrical load forms related to permanent power. (Same voltage and phase specific requirements as temporary power above)
  - ☐ General contractor contact information: Name, phone number, email address, business address.
  - ☐ Electrical contractor contact information: Name, phone number, email address, business address.
  - ☐ Owner contact information: Name, phone number, email address, business address.
  - ☐ Notify the Oncor PM of any existing Oncor facilities that need to be relocated.
- ☐ **After Electric Load & Plans have been received:** (     /     /     )
  - ☐ Oncor PM will schedule an on-site meeting to review plans, schedule, and discuss options for temporary and permanent service.
  - ☐ Oncor PM will submit electrical load information and plans to Oncor System Planning Department.
- ☐ **Commercial/Residential/Multifamily Developments:** (     /     /     )
  - ☐ Oncor Engineer will design the electric distribution system to serve the new development (temporary and permanent).
  - ☐ Oncor PM will determine if a customer Contribution In Aid of Construction (CIAC) form will be required.
  - ☐ Oncor PM will pre-order any long lead time equipment.
    - Long lead time equipment may take up to 16-24 weeks to be delivered.
  - ☐ Oncor PM will draft all contracts and invoices.
  - ☐ Oncor PM and customer to discuss easement requirements.
- ☐ **Oncor cannot schedule construction until:** (     /     /     )
  - ☐ Contract(s) have been received.
  - ☐ Payment(s) have been received.
  - ☐ Original easement documents have been executed and received.
    - A platted utility easement is acceptable, if customer does not wish to execute a separate instrument. The utility easement will need to be approved by Oncor prior to finalizing the plat.
  - ☐ All civil construction by the customer has been approved by an Oncor Inspector.
  - ☐ Construction path has been cleared of any obstacles, including trees within the easement or right-of-way.

- ☐ The site is within 3 (+/-) inches of final grade.
- ☐ All privately owned utilities have been clearly marked in the construction area
  - e.g. – water lines, gas line, sewer lines, septic fields, irrigation system, etc.
- ☐ Oncor PM schedules an estimated start date for installation of electric distribution facilities.
  - Please allow adequate time for scheduling an Oncor crew/contractor to be on-site. Oncor crew availability can vary depending on current circumstances (i.e. – weather, holidays, projects previously scheduled, etc.)
  - Contact your Oncor PM for scheduling updates throughout your project.
- ☐ **Electric service cannot be energized (meter installed) until: (     /     /     )**
  - ☐ Meter socket(s) installed in compliance with Oncor metering specifications.
  - ☐ An external main disconnect installed, if required.
  - ☐ All construction associated to the meter socket has been completed.
  - ☐ Each metered location is clearly marked (physical address, unit#).
  - ☐ Single Phase Service: Contact Oncor PM as soon as meter sockets/packs have been installed. Oncor PM will submit an order to have single phase service cable installed; this can take up to 15 business days.
    - Three Phase Service: Customer's service cables have been installed by the electrical contractor and terminated in the transformer by an Oncor crew/contractor. Customer will be required to provide Oncor with all two-hole approved lugs. Oncor PM will provide the specifications.
  - ☐ You have all of your permanent service ESI ID numbers.
    - Provide Oncor PM with correct physical (911) address for each metered location.
    - Oncor PM will provide all ESI ID numbers.
  - ☐ An approved city inspection (green tag) has been received and applied to the appropriate ESI ID.
  - ☐ Customer contacts their Retail Electric Provider (REP) to submit an application for service ("move in order").
  - ☐ Customer provides ESI ID numbers to the REP.

*Oncor Electric Delivery is dedicated to install electric service by the "Required Service Date" established between you and your Oncor Project Manager. In the event that there are service delays due to unforeseen circumstances such as weather then we will contact you.*

## ***Project Life Cycle***

*This document is meant to serve as a point of reference and guide through the average life cycle of a project.*

### **New Status:**

- Customer Requests New Service
  - o New Service can be requested by visiting the following website:
    - <http://www.oncor.com/EN/Pages/Start%20New%20Service.html>
- Customer completes and turns in a load sheet
- Work Request is created
  - o ESID is assigned and account is placed on a hold in CCB until Designer determines if construction is required to serve the new request or not
- Designer initiates contact and schedules a site visit

### **Design Status:**

- Site visit is completed
- Designer drafts design
- Designer determines if an easement is required
  - o Should the construction require an easement, customer will be asked to provide relevant documentation and information to aid in the execution of the easement.
- Designer determines if an offsite recommendation is required
  - o Upon the Designer's determination that the load information provided will require coordination with our Project Planning department, the Designer will send a request to determine if any offsite work/system upgrades are required to accommodate the requested service.

### **Approve Status:**

- Designer drafts contractual agreements and Statement of Charges
- Customer returns agreement and submits payment, if required.

### **Scheduling/Staked Status:**

- Designer releases job for construction
  - o Designer utilizes Field Inspector resources to determine if customers are ready for service
  - o If an underground service has been requested, the Designer will place an order for the underground installation upon determination that the location is ready.
  - o Designer/Analyst provides updates throughout construction timeframe

### **Construction Complete Status:**

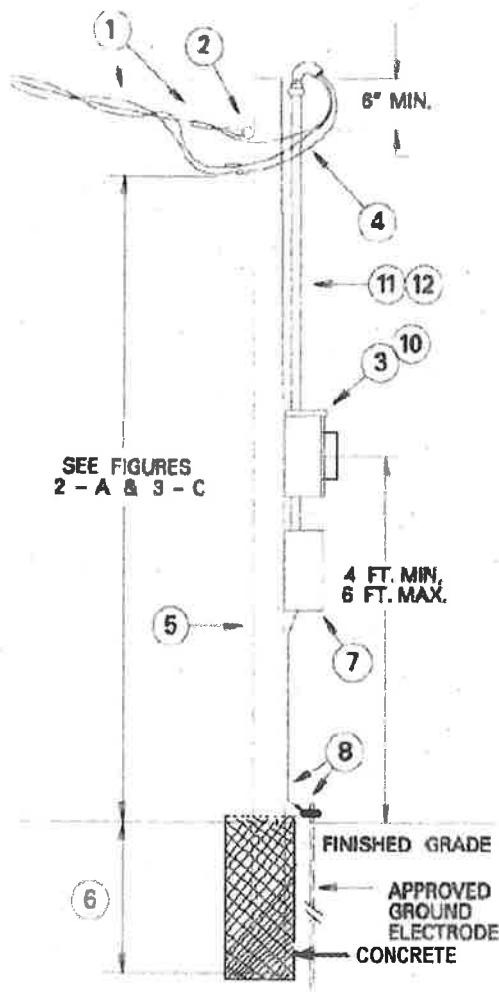
- Designer/Analyst follows up with the Meter Set Order until complete

*All provided lead times are estimates. Customer responsibilities can be found in the Electric Service Guidelines, link provided below and hard copies can be provided upon request. Contact Designer/Analyst with any questions or concerns.*

<http://www.oncor.com/en/Documents/About%20Oncor/Construction%20Development/Complete%20Electric%20Service%20Guidelines%20Book.pdf>

## OVERHEAD SERVICE, PERMANENT METER POLE

FIGURE 3-E



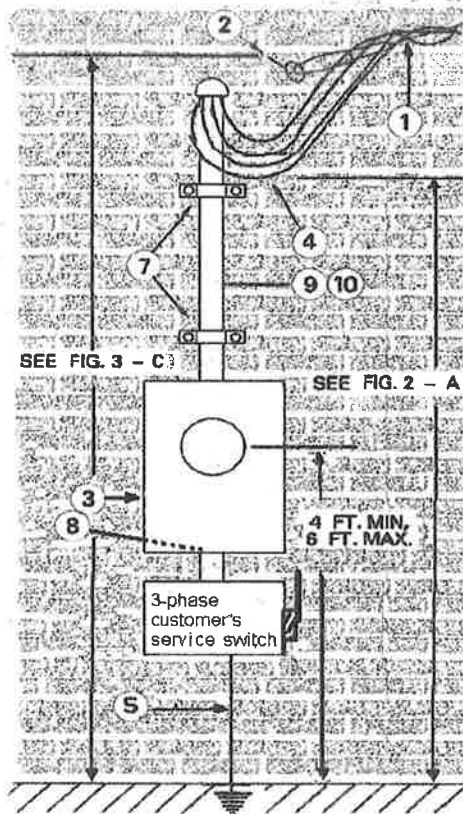
### NOTES:

1. Service drop provided and installed by Company.
2. Customer installs service drop attachment of adequate strength for attachment of Company's service drop conductors. See Figure 3-B, page 20.
3. Meter socket shall be provided, installed and maintained by Customer. Transockets, when required, shall be provided by Company and installed and maintained by Customer. Socket must be securely anchored.
4. Service entrance conductors (minimum #8 Cu or #6 Al) and service raceway provided and installed by Customer, shall extend 24" or the minimum length required by local ordinance outside service head for connection to Company service drop. Phase conductors to have black insulation. Neutral conductor to be marked white or bare. Customer will bond 480 volt neutral conductor to all metal service entrance raceways.
5. Customer to provide and install support for service attachment and meter socket. Creosote pole, or equal to be 5" minimum diameter at top. Steel pipe to be 4.5" minimum outside diameter and a minimum thickness of 0.237". Steel tube to be 4" square and a minimum thickness of 0.25". Support to be sufficient height for the service drop to meet minimum clearances. See Figure 2-A, page 12.
6. Wood pole to be set in 4 Ft. of concrete where soil conditions are less than rock. Steel pipe or tube to be set in 4 Ft. of concrete. Pole foam back-fill may be used, if approved by Company.
7. Weatherproof service switch or breaker panel is required for all permanent meter pole installations and is provided and installed by Customer.
8. Customer's grounding electrode conductor, #6 Cu minimum shall originate in the service entrance equipment and extend to an approved ground electrode. The grounding electrode conductor is permitted to be routed through the meter socket enclosure, but shall not terminate within. Company reserves the right to refuse installation of service upon observing an unsafe Customer connection.
9. Customer's installation to meet the requirements of all applicable codes and local ordinances.
10. Insulated conduit bushings are required for raceways terminating in the meter socket. See Table 5-C, pages 43-46 for list of approved meter sockets.
11. The use of flexible metallic conduit, liquid tight flexible metallic conduit, and liquid tight flexible non-metallic conduit for service entrance raceway is prohibited unless approved by the local inspecting authority. The service raceway may not contain any LB or other open connections.
12. The use of Schedule 40 or 80 PVC for service mast not supporting service drop is allowed unless prohibited by the local inspecting authority.
13. For overhead service to mobile homes, see 300.11, page 18.
14. For 3-wire delta services, see Figure 3-I, page 27.

# OVERHEAD SECONDARY SERVICE, WALL MOUNTED METER

## NON-RESIDENTIAL-SINGLE OCCUPANCY STRUCTURES

### FIGURE 3-F

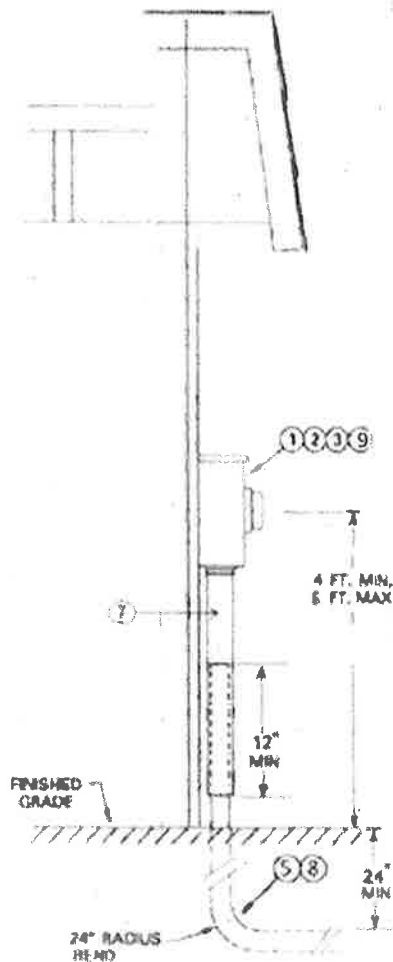


#### NOTES:

1. Service drop provided and installed by Company.
2. Customer installs service drop attachment of adequate strength for attachment of Company's service drop conductors. See Figure 3-B, page 20.
3. Meter socket shall be provided, installed and maintained by Customer. Transockets, when required, shall be provided by Company and installed and maintained by Customer. Socket must be securely anchored to wall.
4. Service entrance conductors (minimum #8 Cu or #6 Al) and service raceway provided and installed by Customer, shall extend 24" or the minimum length required by local ordinance outside service head for connection to service drop. Phase conductors to have black insulation. Neutral conductor to be marked white or bare.
5. Customer's grounding electrode conductor (#6 Cu min.) shall originate in the service entrance equipment and extend to an approved grounding electrode. The grounding electrode conductor is permitted to be routed through the meter socket enclosure, but shall not terminate within. Company reserves the right to refuse installation of service upon observing an unsafe Customer connection.
6. Customer's installation to meet all requirements of all applicable codes and local ordinances.
7. Two or more conduit straps shall be provided to support conduit. Socket must be securely anchored to wall. The service raceway may not contain any LB or other open connections.
8. Insulated conduit bushings are required for raceways terminating in meter socket.
9. The use of flexible metallic conduit, liquid tight flexible metallic conduit, and liquid tight flexible non-metallic conduit for service entrance raceway is prohibited, unless approved by the local inspecting authority. The service raceway may not contain any LB or other open connections.
10. The use of Schedule 40 or 80 PVC for service mast not supporting service drop is allowed unless prohibited by the local inspecting authority.
11. **Not for 3-wire delta services**, see Figure 3-I, page 27.
12. If an existing single-occupancy structure customer requests that one or more additional three-phase meters be installed to convert to a multi-metered structure, then the customer must install a disconnecting means on the load side of each existing three-phase meter installation on the structure and on each newly installed three-phase meter installation, unless prohibited by local governing authority.
13. Any new three-phase service to a non-residential structure must be equipped with a disconnecting means installed on the load-side of the three-phase metering equipment where the metering equipment is installed on a customer structure, unless prohibited by local governing authority.
14. Single-phase services that utilize transockets for the metering equipment require a disconnecting means to be installed on the load side of the transocket. See Figure 5-D, pages 47-49 for instrument rated/transocket details.
15. Service disconnect switches and breakers are both acceptable for use as the disconnecting means. The disconnecting means must have provision for a Company lock. The disconnecting means must be readily accessible by Company and within close proximity of the meter. A 4 in. minimum clearance from the service disconnect switch operating lever is required. Customer must receive Company approval of electrical design and/or nonstandard equipment or locations prior to installation of equipment.

# UNDERGROUND SINGLE PHASE SERVICE METER FOR ONE RESIDENTIAL OR ONE NON-RESIDENTIAL (ONE SECONDARY) SERVICE

FIGURE 4-B



## NOTES:

1. See Tables 5-A & 5-B, pages 41 & 42 for Company-Customer responsibility of source and load conductors and connection of these conductors.
2. Meter socket shall be provided, installed, and maintained by Customer. See Table 5-C, pages 43-46 for list of approved meter sockets. Transockets, when required, shall be provided by Company and installed and maintained by Customer. All meter sockets (excluding transockets) require the line-side conductors to be connected to the top meter socket terminals. **Customer load conductors may not exit top half of meter socket.**
3. An insulated conduit bushing is required for raceways terminating in the meter socket. The service raceway may not contain any LB or other open connections.
4. Customer's grounding electrode conductor, #6 Cu minimum shall originate in the service entrance equipment and extend to an approved ground electrode. The grounding electrode conductor is permitted to be routed through the meter socket enclosure, but shall not terminate within. Company reserves the right to refuse installation of service contingent upon inspection of Customer's grounding connections.
5. Reference 400.02, page 28 and 400.03, page 28 for Company or Customer responsibility for service lateral raceway installation. Schedule 80 PVC is required for Company owned underground service lateral raceways. **Rigid steel, IMC, or EMT is not allowed.** Contact Company prior to installation to determine service lateral raceway size, 2 in. is minimum.
6. The use of flexible metallic conduit, liquid tight flexible metallic conduit, and liquid tight flexible non-metallic conduit for service entrance raceway is prohibited, unless approved by the local inspecting authority.
7. Customer to provide and install an oversized PVC conduit/raceway fitting that slips over the service lateral conduit. This fitting prevents exposure of conductors due to conduit/raceway movement due to soil expansion and contraction. Conduit inserted a minimum of 12 in. into the fitting.

Approved PVC conduit/raceway fitting manufacturers and part numbers:

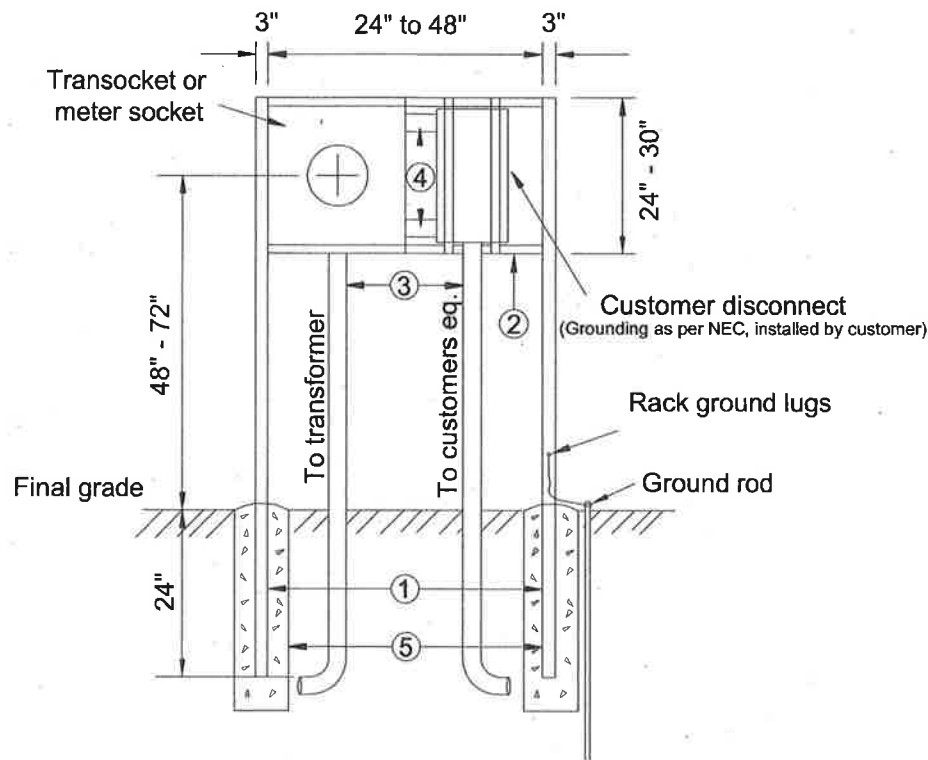
Conduit size	MFR	MFR #
2"	Carlson	E957JXX
2"	Cantex	5144028
2"	Heritage	610407
3"	Carlson	E954LXX
3"	Cantex	5144043
3"	Heritage	610409
4"	Carlson	E954NXX
4"	Cantex	5144027
4"	Heritage	610410

8. Service lateral conductor must enter from the BOTTOM of the meter socket, not from the side and not from the top.
9. Company owned service lateral conductors are installed by Company and line-side (top) connections made up by Company. Customer's service conductors are installed and connected in socket by Customer.

# UNDERGROUND SERVICE, METER RACK

FIGURE 4-E

Meter Equipment Rack



Item	Qty	Description
1	2	Angle Iron, 3" x 3" x $\frac{1}{4}$ " x 8'-0", galv. (or unistrut)
2	2	Angle Iron, 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x $\frac{1}{8}$ " x 36", galv. (or unistrut)
3	2	Conduit, Sch. 90 PVC, as required
4	1	Conduit, nipple, as required (lowered for meter socket - upper for transocket)
5		Concrete, as required

## NOTES:

1. Company owned service lateral conductors are installed by Company and line-side (top) connections made up by Company. Customer service conductors are installed and connected in socket by Customer.
2. Meter socket, rack and conduit/risers provided, installed and maintained by Customer. A 4" minimum clearance from the disconnect switch operating-lever is required. See Table 5-C, pages 43-46 for list of approved meter sockets.
3. Service lateral or source conductors provided and installed as per 400.02, page 28. The service raceway to transformer (source) may not contain any LB or other open connections.
4. A 4 Ft. clearance is required from meter side of meter rack assembly to any obstruction or structure.
5. Customer service equipment may be installed on meter rack assembly in accordance with all applicable codes.
6. Customer provides, installs and maintains the grounding electrode conductor, #6 Cu minimum and connection to an approved ground electrode. Company reserves the right to refuse installation of service contingent upon observing an unsafe Customer connection.
7. Alternate Design- Customer shall obtain Company approval of any alternate design prior to installation. A Meter Pedestal is an acceptable alternate design, and it must follow Company Standard Drawing 212-305. See Company for details.



# COMPANY - CUSTOMER RESPONSIBILITY

TABLE 5-A

SINGLE METER SOCKET LOCATIONS					
Type of Service	Reference Figure	P.O.D. Location (Note 1)	Conductor from Source to P.O.D. Location (Note 2)	Party Providing Connectors at P.O.D. Location (Notes 3 & 4)	Party Installing Connectors at P.O.D. Location (Notes 3 & 4)
Overhead Service					
Single-Phase Secondary Service less than 20 kW or Residential	3-D, 3-E 3-F, 3-I	Service Head	Company	Company	Company
Single-Phase or Three-Phase Secondary Service greater than or equal to 20 kW	3-D, 3-E 3-F, 3-I	Service Head	Company	Company	Company
Underground Service from Overhead Secondary or Overhead Transformation					
Single-Phase Secondary Service less than 20 kW or Residential	4-B	Source Terminals of Meter Socket or Load Terminals of Transocket	Company	Customer	Customer
Single-Phase or Three-Phase Secondary Service greater than or equal to 20 kW	4-B	Source Terminals of Meter Socket or Load Terminals of Transocket	Company	Customer	Customer
Underground Service from Underground Secondary or Padmounted Transformation					
Single-Phase Secondary Service less than 20 kW or Residential	4-B	Source Terminals of Meter Socket or Load Terminals of Transocket	Company	Customer	Customer
Single-Phase or Three-Phase Secondary Service greater than or equal to 20 kW	4-B	Load-side Terminals of Secondary Enclosure	Company	Customer	Company
		Secondary Terminals of Padmounted Transformer	Company	Customer	Company
Overhead and Underground Primary Voltage Service					
Overhead Primary Service	---	Location of Primary Metering Equipment at: Dead End Insulator Attachment Point (overhead), or Cable Termination (terminal pole)	Company	Customer	Customer on Customer Conductors and Company on Company Conductors
Underground Primary Service	---	Location of Primary Metering Equipment at: Load Side Bushing (padmounted), or Cable Termination (terminal pole)	Company	Customer	Customer on Customer Conductors and Company on Company Conductors

## NOTES:

1. The Point of Delivery (P.O.D.) is the point at which electric power and energy leaves the Company delivery system; see 100.01.19, page 4. P.O.D. locations other than those indicated may be designated by Company. In such cases, ownership of service conductors shall be permanently marked.
2. Customer installed raceway is permitted or required as specified in 400.02, page 28.
3. The Customer is responsible for making all physical connections on the load side of the P.O.D. All conductors and connectors on the load side of the P.O.D. are provided, installed, and maintained by the Customer. See Appendix A, (NEMA 2-hole) page 60 or Appendix B, (NEMA 1-hole) page 61 for specification of approved connectors installed in Company metering and Company connection enclosures and in Company padmounted equipment.
4. The Company shall make all physical connections at the source side terminals at the P.O.D. All connectors placed on Company conductors are to be supplied and installed by Company. Customer provides and installs terminations on Customer conductors. For Overhead Primary Metering - Company will attach the Customer conductors to Company Dead End Insulator and install jumper from Primary Metering Equipment. For Underground Padmounted Primary Metering -Customer provides and installs terminations on Customer conductors. Company attaches terminations to Company equipment and energizes the conductors.



# METER AND SOCKET APPLICATION GUIDE

TABLE 5-C \*

APPLICATION				METER SOCKET				MAX HUB SIZE	MAX # CONDUCTORS MIN/MAX CONDUCTORS SIZES, TYPICAL DIMENSIONS **
WIRES	PHASE	VOLTS	SERVICE TYPE	MAX AMPS	INSTALLATION TYPE	STOCK NO.	MANUFACTURER *		
2	1	120 or 240	Secondary Service or Temporary	0 - 60	Self-Contained OH Only	312720	Brooks Utility Milbank	One 1"	Source: One #12 - #1/0 Load: One #12 - #1/0 Size: 7" Diameter (Round)
2	1	120 or 240	Residential or Secondary Service	0 - 150	Self-Contained OH Only	301399	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	One 2.75"	Source: One #2 - 250 Load: One #2 - 250 Size: 8.5" x 12.5" x 3.25" Note: 2W Service is Limited to 100 A
2	1	480	Secondary Service	0 - 200	Mini Transocket OH or UG	320797	Durham	One 3"	Source: One #6 - 250 Load: One #6 - 250 Size: 13" x 24" x 9"
3	1	120/240	Secondary Service or Temporary	0 - 60	Self-Contained OH Only	312720	Brooks Utility Milbank	One 1"	Source: One #12 - #1/0 Load: One #12 - #1/0 Size: 7" Diameter (Round)
3	1	120/240	Residential	0 - 150	Self-Contained OH Only	301399	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	One 2.75"	Source: One #2 - 250 Load: One #2 - 250 Size: 8.5" x 12.5" x 3.25"
3	1	120/240	Secondary Service	60 - 200	Self-Contained OH or UG	312727	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	One 2.75"	Source: One #2 - 350 Load: One #2 - 350 Size: 13" x 19" x 5" Note: Equipped with Lever Bypass
3	1	120/240	Residential	150 - 200	Self-Contained OH or UG	301401	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	One 2.75"	Source: One #2 - 250 Load: One #2 - 250 Size: 11" x 14" x 5"
3	1	120/240	Residential	0 - 200	Self-Contained OH or UG	323754	Eaton Cutler-Hammer Durham Midwest Electric Square D by Schneider Electric	One 2.75"	Source: One #1/0 - 350 Load: One #1/0 - 250 Size: 11" x 15" x 5"
3	1	120/240	Residential or Secondary Service	200 - 320	Self-Contained OH or UG	301402	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	One 4"	Source: One #2 - 600 Load: One #6 - 350 Size: 15" x 37" x 6" Note: Equipped with Lever Bypass

\*Manufacturer name and part number subject to change without notice.

\*\* Actual dimensions will vary









**METER AND SOCKET APPLICATION GUIDE (cont'd)**  
**TABLE 5-C \***

APPLICATION				METER SOCKET			MAX HUB SIZE	MAX # CONDUCTORS MIN/MAX CONDUCTORS SIZES, TYPICAL DIMENSIONS **
WIRES	PHASE	VOLTS	SERVICE TYPE	MAX AMPS	INSTALLATION TYPE	STOCK NO.		
3	1	120/240	Residential or Secondary Service	320 - 600	Med - Transocket OH or UG	301417	Two 4"	Source: Two #2 - 600 Load: Two #2 - 600 Size: 18" x 30" x 12"
3	1	120/240	Residential or Secondary Service	600 - 1600	Maxi - Transocket OH or UG	302775	Four 4"	Source: Four #2 - 600 Load: Four #2 - 600 Size: 30" x 42" x 14"
3	1	120/240	Mobile Home Single Position	0 - 200	Self-Contained UG Only	307392	N/A	Source: One #6 - 250 Load: One #6 - 250 Size: 12" x 42" x 8" Note: Use with Base TSN 310447
3	1	120/240	Mobile Home 2 Gang Vertical	0 - 200	Self-Contained OH or UG	307393	N/A	Source: One #6 - 250 Load: One #6 - 250 Size: 12" x 42" x 8" Note: Use with Base TSN 310447
3	1	120/240	Apartment 2 Gang Horizontal	0 - 150	Self-Contained OH or UG	301408	One 2.75"	Source: One #2 - 350 Load: One #2 - 250 Per Position Size: 25" x 14" x 6"
3	1	120/240	Apartment 3 Gang Horizontal	0 - 150	Self-Contained OH or UG	301403	Two 2.75"	Source: One #2 - 350 Load: One #2 - 250 Per Position Size: 33" x 14" x 5"
3	1	120/240	Apartment 4 Gang Horizontal	0 - 150	Self-Contained OH or UG	301404	Two 2.75"	Source: One #2 - 350 Load: One #2 - 250 Per Position Size: 41" x 14" x 5"
3	1	120/240	Apartment 5 Gang Horizontal	0 - 150	Self-Contained OH or UG	301405	Two 2.75"	Source: One #2 - 350 Load: One #2 - 250 Per Position Size: 49" x 14" x 5"
3	1	120/240	Apartment 6 Gang Horizontal	0 - 150	Self-Contained OH or UG	301406	Two 2.75"	Source: One #2 - 350 Load: One #2 - 250 Per Position Size: 57" x 14" x 5"

\*Manufacturer name and part number subject to change without notice.

\*\* Actual dimensions will vary

**METER AND SOCKET APPLICATION GUIDE (cont'd)**  
**TABLE 5-C\***

APPLICATION				METER/ SOCKET				MAX HUB SIZE	MAX # CONDUCTORS MIN/MAX CONDUCTOR SIZES TYPICAL DIMENSIONS**
WIRES	PHASE	VOLTS	SERVICE TYPE	MAX AMPS	INSTALLATION TYPE	STOCK NO.	MANUFACTURER*	PART NUMBER	
3	1	240/480	Secondary Service	0 - 200	Mini - Transocket OH or UG	320797	Durham	105777A	Source: One #6 - 250 Load: One #6 - 250 Size: 13" x 24" x 9"
3	Network	120/208	Residential or Secondary Service	0 - 200	Self-Contained OH or UG	301392	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H5213B-ND-OH UT-H5213B-ND 9804-8592 UT-H5213B-ND-MEP U6581-XL 9804-8592 UT-H5213B-ND-SOD	Source: One #2 - 350 Load: One #2 - 350 Size: 13" x 19" x 5" Note: Equipped with Lever Bypass
3		240	Secondary Service	0 - 200	Self-Contained OH or UG	301392	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H5213B-ND-OH UT-H5213B-ND 9804-8592 UT-H5213B-ND-MEP U6581-XL 9804-8592 UT-H5213B-ND-SOD	Source: One #2 - 350 Load: One #2 - 350 Size: 13" x 19" x 5" Note: Equipped with Lever Bypass
3		240	Secondary Service	200-600	Med - Transocket OH or UG	301417	Milbank Durham	S2690-XT 1004790A	Source: Two #2 - 600 Load: Two #2 - 600 Size: 18" x 30" x 12"
3		240	Secondary Service	600 - 1600	Maxi - Transocket OH or UG	302775	Milbank Durham	S3487-4X 1005014A	Source: Two #2 - 600 Load: Two #2 - 600 Size: 30" x 42" x 14"
3		480	Oil Field Only	0 - 200	Self-Contained OH or UG	301392	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H5213B-ND-OH UT-H5213B-ND 9804-8592 UT-H5213B-ND-MEP U6581-XL 9804-8592 UT-H5213B-ND-SOD	Source: One #2 - 350 Load: One #2 - 350 Size: 13" x 19" x 5" Note: Equipped with Lever Bypass
3		480	Secondary Service	0 - 200	Mini - Transocket OH or UG	312125	Milbank Durham	S3228-DL 1004941B	Source: One #6 - 250 Load: One #6 - 250 Size: 13" x 24" x 9"
3		480	Secondary Service	200 - 600	Med - Transocket OH or UG	301419	Milbank Durham	S3184-XT 1004786C	Source: Two #2 - 600 Load: Two #2 - 600 Size: 18" x 30" x 12"
4		120/240	Residential or Secondary Service	0 - 200	Self-Contained OH or UG	301394	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H7213T-HL-OH UT-H7213T-HL 40407-02FL UT-H7213T-HL-MEP U6701-RL S60407-025FL UT-H7213T-HL-SOD	Source: One #6 - 350 Load: One #6 - 350 Size: 13" x 19" x 5" Note: Equipped with Lever Bypass
4		120/240	Residential or Secondary Service	200 - 320	Self-Contained OH or UG	312883	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H7306-9T-HL-OH UT-H7306-9T-HL 47707-02FL UT-H7306-9T-HL-MEP U6936-R 47707-02FL UT-H7306-9T-HL-SOD	Source: One #2 - 600 or Two #2 - 350 Load: Two #2 - 350 Size: 15" x 35" x 5" Note: Equipment with Lever Bypass




















\*Manufacturer name and part number subject to change without notice.

\*\* Actual dimensions will vary



# METER AND SOCKET APPLICATION GUIDE (cont'd)

TABLE 5-C\*

APPLICATION				METER SOCKET				MAX HUB SIZE	MAX # CONDUCTORS MIN/MAX CONDUCTOR SIZES TYPICAL
WIRES	PHASE	VOLTS	SERVICE TYPE	MAX AMPS	INSTALLATION TYPE	STOCK NO.	MANUFACTURER*	PART NUMBER	
4	 3Y	120/240	Residential or Secondary Service	200 - 320	Self-Contained OH or UG	397389	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H7336-9T-HL-OH UT-H7336-9T-HL 44707-02FL UT-H7336-9T-HL-MEP U4013-X S44707-02FL UT-H7336-9T-HL-SOD	Source: One #2 - 600 or Two #2 - 350 Load: Two #2 - 350 Size: 20" x 40" x 7" Note: Equipment with Lever Bypass
4	 3Y	120/240	Residential or Secondary Service	320 - 600	Med-Transocket OH or UG	301418	Milbank Durham	S2674-XT 1004785A	Source: Two #2 - 600 Load: Two #2 - 600 Size: 18" x 30" x 12"
4	 3Y	120/240	Residential or Secondary Service	600 - 1600	Maxi-Transocket OH or UG		Durham		Source:  - 600 Load:  - 600 Size:  x 42" x 15"
4	3Y	120/208	Residential or Secondary Service	0 - 200	Self-Contained OH or UG	301394	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H7213T-HL-OH UT-H7213T-HL 40407-02FL UT-H7213T-HL-MEP U9701-X S0407-02FL UT-H7213T-HL-SOD	Source: One #6 - 350 Load: One #6 - 350 Size: 13" x 19" x 5" Note: Equipment with Lever Bypass
4	3Y	120/208	Residential or Secondary Service	200 - 320	Self-Contained OH or UG	312883	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H7306-9T-HL-OH UT-H7306-9T-HL 47707-02FL UT-H7306-9T-HL-MEP U9306-R 47707-02FL UT-H7306-9T-HL-SOD	Source: One #2 - 600 or Two #2 - 350 Load: Two #2 - 350 Size: 15" x 35" x 5" Note: Equipment with Lever Bypass
4	3Y	120/208	Residential or Secondary Service	200 - 320	Self-Contained OH or UG	397389	Eaton Cutler-Hammer Durham Talon/Landis & Gyr Midwest Electric Milbank Talon/Siemens Square D by Schneider Electric	UT-H7336-9T-HL-OH UT-H7336-9T-HL 44707-02FL UT-H7336-9T-HL-MEP U4013-X S44707-02FL UT-H7336-9T-HL-SOD	Source: One #2 - 600 or Two #2 - 350 Load: Two #2 - 350 Size: 20" x 40" x 7" Note: Equipment with Lever Bypass
4	3Y	120/208	Residential or Secondary Service	320 - 600	Med-Transocket OH or UG	301418	Milbank Durham	S2674-XT 1004785A	Source: Two #2 - 600 Load: Two #2 - 600 Size: 18" x 30" x 12"
4	3Y	120/208	Residential or Secondary Service	600 - 1600	Maxi-Transocket OH or UG		Durham		Source:  - 600 Load:  - 600 Size:  x 42" x 15"
4	3Y	277/480	Residential or Secondary Service	0 - 200	Mini-Transocket OH or UG	901553	Durham		Source: One #6 - 250 Load: One #6 - 250 Size: 13" x 31" x 11"
4	3Y	277/480	Residential or Secondary Service	200 - 600	Med-Transocket OH or UG	901552	Durham		Source: Two #2 - 600 Load: Two #2 - 600 Size: 18" x 35" x 11"
4	3Y	277/480	Residential or Secondary Service	600 - 1600	Mini-Transocket OH or UG	901554	Durham	1 	Source:  - 600 Load:  - 600 Size:  x 42" x 15"
ANY APPLICATION				>1600	CONSULT COMPANY FOR SERVICE ENCLOSURE AND/OR INSTRUMENT TRANSFORMER ENCLOSURE OPTIONS				

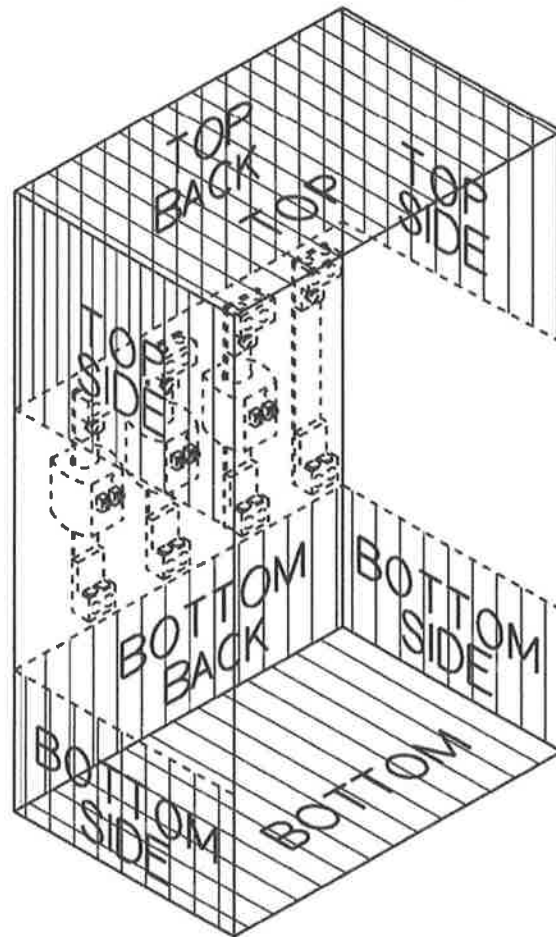
\* Manufacturer name and part number subject to change without notice.

\*\* Actual dimensions will vary

## TRANCKET CONFIGURATIONS AND CONNECTION DETAILS (Cont'd)

FIGURE 5-D

### Permissible Entrance and Exit Locations for Transocket Conductors



**Integrity of Connections** – When installing conductors in transockets, it is the responsibility of the installer to ensure that all line and load connections are tight, including the connections between the CT bus bar and the connector.

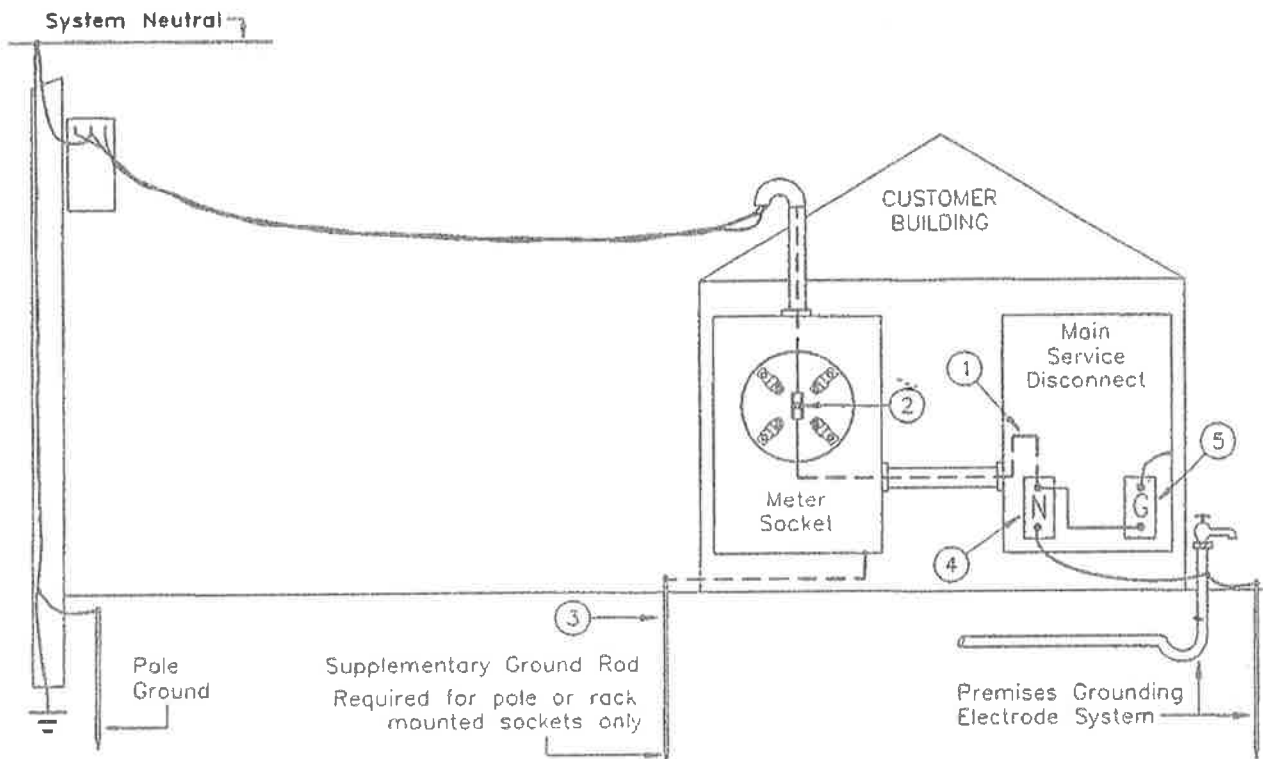
#### **Transocket - Overhead Service**

1. For overhead installations, line conductors must enter the transocket top, top back, or top sides and connect to transocket top terminals.
2. Load conductors must connect to the transocket bottom terminals and exit through the transocket bottom, bottom back, or bottom sides.

#### **Transocket - Underground Service**

1. For underground installations, line conductors must enter through the transocket bottom, bottom back, or bottom sides and connect to the transocket bottom terminals.
2. Load conductors must connect to the transocket top terminals and exit through the top, top back, or top sides.
3. Reserve adequate space beneath the transocket for service raceway.

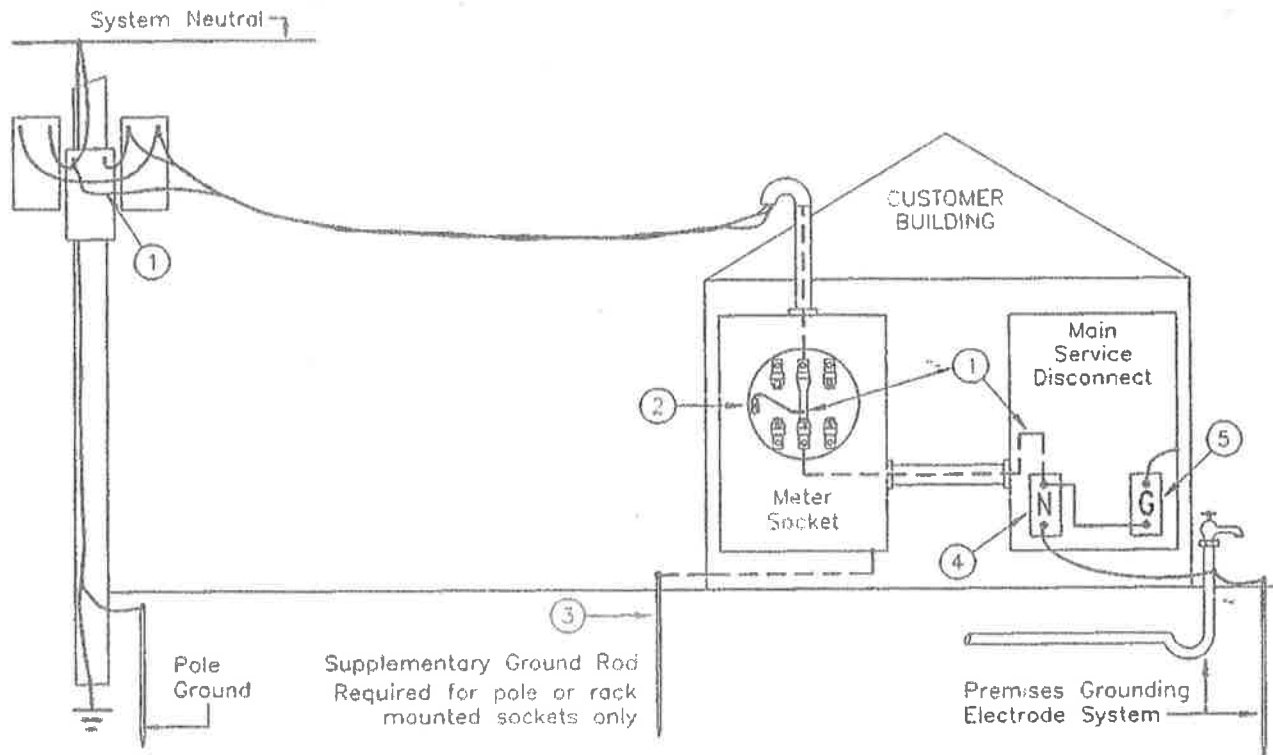
ALL TRANSOCKETS EXCEPT 3W 3Ø 480V



### NOTES

1. Grounded conductor. The customer must connect the neutral conductor to the premises grounding electrode system (usually via the neutral bus at the main service disconnect).
2. Standard TU Electric self-contained meter sockets (except those used for 3-wire network and 3-wire, 3-phase delta) and transockets (except for 3-wire, 3-phase, 480-v delta) utilize a neutral connector that is solidly bonded to the meter socket enclosure. The connection between this neutral connector and the (grounded) neutral conductor effectively grounds the enclosure to the premises grounding electrode system. For sockets installed on buildings, no other grounding measures are necessary. For remotely located meter sockets, see Note 3. **CAUTION: Always ensure that the neutral connector is securely bonded to the enclosure.**
3. In addition, if the meter socket is installed on a pole, rack, or other remote structure, the meter socket enclosure shall be connected to an 8-ft, supplementary ground rod located within sight of and as close as practicable to the meter socket. The socket enclosure shall also be bonded to the case grounds of all other equipment within reach. Grounding connections between the meter socket and customer's grounding electrode system shall be the responsibility of the customer. See Drawing 812-080 for grounding of meter sockets installed on Company poles.
4. Customer's neutral bus.
5. Customer's equipment grounding bus.

# 3Ø 3W 480V TRANSOCKET



## NOTES

1. **Grounded conductor.** The customer must connect the grounded service conductor to the premises grounding electrode system (usually via the neutral bus at the main service disconnect). For 3-wire network, the neutral must be the grounded conductor. For 3-wire, 3-phase delta, any *one, single* conductor may serve as the grounded conductor. The grounded conductor shall be connected to the meter socket's center bus. **CAUTION:** The grounded conductor at the neutral bus shall correspond to the grounded phase at the transformer.
2. **Standard TU Electric self-contained meter sockets** used for 3-wire network and 3-wire, 3-phase delta services and transockets used for 3-wire, 480-v services utilize a removable grounding strap to bond the socket enclosure to the center (unmetered) phase. This grounding strap shall be installed except in *ungrounded*, 3-wire, 3-phase delta applications. With the grounding strap in place, the meter socket is effectively grounded to the premises grounding electrode system through the grounded conductor. For sockets installed on buildings, no other grounding measures are necessary. For remotely located sockets, see Note 3. **CAUTION:** Always ensure that the grounding strap is securely installed for grounded services.
3. In addition, if the meter socket is installed on a pole, rack, or other remote structure, the meter socket enclosure shall be connected to an 8-ft, supplementary ground rod located within sight of and as close as practicable to the meter socket. The socket enclosure shall also be bonded to the case grounds of all other equipment within reach. Grounding connections between the meter socket and customer's grounding electrode system shall be the responsibility of the customer. See Drawing 812-080 for grounding of meter sockets installed on Company poles.
4. Customer's neutral bus.
5. Customer's equipment grounding bus.



**Oncor Easement – Grantor Information:**

District: \_\_\_\_\_  
WR: \_\_\_\_\_

**In order to properly prepare the easement for Oncor Electric Delivery Company please provide the following information:**

- **Exhibit “A”** - two (2) original Exhibit “A” documents prepared by a registered surveyor (signed and sealed) – recommended for commercial property.

**Points to remember in preparing exhibit:**

- Label Easement **“Oncor Electric Delivery Company Easement”**. (Exhibits with easements labeled “electric easement” or “utility easement” will be returned for correction.)
  - exhibits should be letter size (8-1/2” x 11”) if possible but no larger than legal size (8-1/2” x 14”) to be filed with deed records;
  - Include entire lot and nearest intersection whenever possible
  - Include a reference to the Warranty Deed showing ownership of the property on either the drawing or the written description
- **Warranty Deed** – copy of Warranty Deed for the property showing legal ownership of the property
  - **Grantor** - Property Owner Name exactly as stated on the Warranty Deed (will be shown as Grantee on Warranty Deed). If owned by a corporation, include the state of incorporation (Ex: ABC Company, L.P., a Texas limited partnership). A copy of the Articles of Incorporation is helpful.
  - **Limited Partnership (L.P.)** - if Grantor is a Limited Partnership include General Partner name and state of incorporation (ex. ABC Company L.P., a Delaware corporation, DEFG Company LLC, a Delaware limited liability company, its general partner)
  - **Signature Information** - Name and title of whoever will be signing the document (Ex. John Doe, managing partner) – include documentation that gives them the authority to sign the easement. This should be someone who has the authority to make real estate commitments for the property owner.
  - **Contact information** – include a contact email address and phone number

Example of the signature page:

ABC Commercial Products, L.P.,  
a Texas limited partnership

By: DEF Commercial Products LLC  
a Texas limited liability company  
its general partner

By: \_\_\_\_\_  
John Doe, President

If you have questions, please contact:

**Regarding Electric Design:**

Oncor Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Cell: \_\_\_\_\_

email: \_\_\_\_\_



Electric Delivery Company LLC,  
a Delaware limited liability company

**Distribution Easement Information Form**

**Please Print**

**Requestor Information (Required)**

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
(Requestor)

**Primary Contact:** \_\_\_\_\_  
Last First

**Address:** \_\_\_\_\_  
Street Address Apartment/Unit #/Suite  
\_\_\_\_\_  
City State Zip Code

**Phone:** ( ) \_\_\_\_\_ **E-Mail Address:** \_\_\_\_\_

**Property Legal Description (Required)**

**To expedite include Recorded Legal Description (Lot/Block/Subdivision) volume and page information**

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**\*\*A Recorded Copy of the Current Vesting Deed is required with this form\*\***

**Additional Identifiable Information**

**Mapscot Reference:** \_\_\_\_\_

**Proximity to Major Intersection:** \_\_\_\_\_  
**Cross Roads**

**Property Address**

**Physical Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **County:** \_\_\_\_\_

**PLEASE NOTE:**

Owner will be required to provide a survey of the easement, prepared by a registered professional land surveyor, with signed and sealed metes and bounds description and a pictorial (Exhibit "A"). The survey shall be in 8-1/2" X 11" format and should be legible with clear detail showing all dimensions of the easement, nearest intersections, north arrow, volume/page of the subject property and the easement shaded/cross hatched with a legend identifying the easement area as "Oncor Electric Delivery Company LLC Easement." The survey and drawing must be of legible quality for filing with the County Clerk.

*Oncor will not place its facilities upon the property being served unless and until Oncor easement rights have been secured through the vested owner.*

*The easement to Oncor is to cover Oncor's facilities on the private property of the party requesting Oncor service. Therefore Oncor, as a policy, will not accept any modifications to its standard easement form.*

Upon receipt of a completed form and the above mentioned items, Oncor will prepare its standard easement document along with the required survey which shall be forwarded for execution by the vested owner or their authorized agent. At least two original documents should be executed. Oncor will have the document recorded in the deed records of the county in which the property is located.

Please be assured that Oncor is aware of the urgency of your request and will make every effort to expedite your easement.

**Site Visit Checklist**

- Is the load sheet filled out correctly?
- Has all information been provided?
- Will the load require an offsite submission?
- Will the design require an easement?
  - o Can the customer provide the warranty deed or property owner contact?
- Will a transocket be required?
  - o Has customer been informed of the required supplemental grounding rod?
- For an underground service, will customer be providing the civil work?
- Has customer been provided with a copy or link to ESG?
- Will pipelines/other easements need to be located?

*Customer has been presented all documentation and information provided in Customer Information Packet*

**Customer Signature**

**Date**