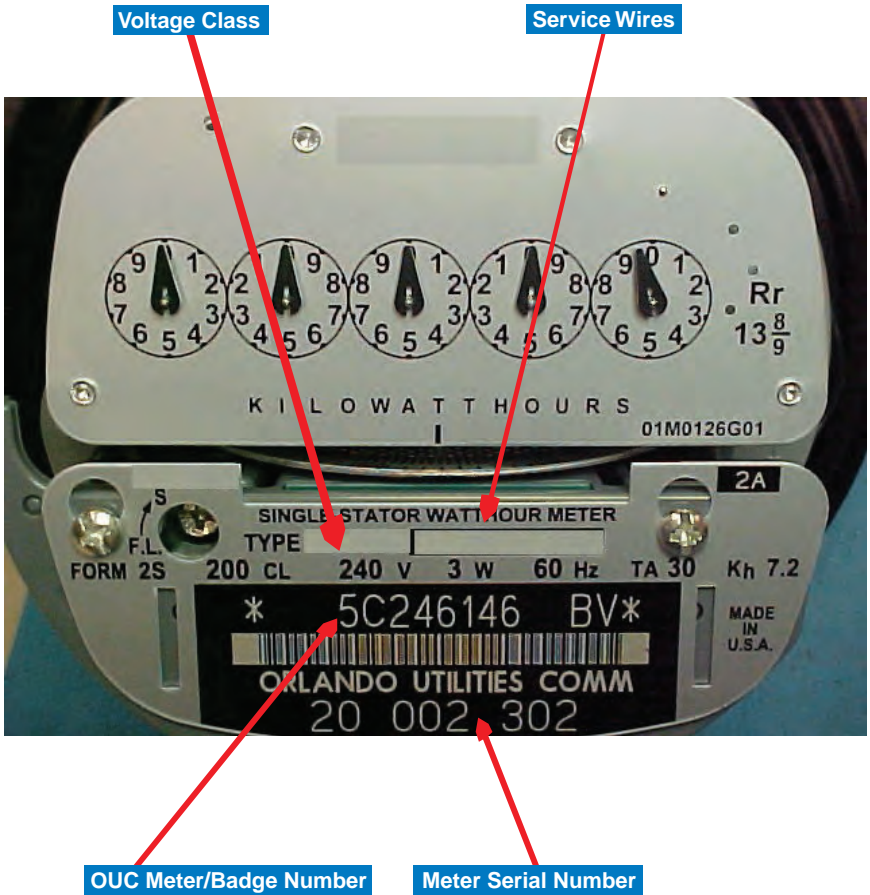


**Electric Service and  
Meter Installation  
Requirements**



kWh

# OUC Electric Meter



## For Your Information

### **Please send revision suggestions to:**

OUC–The Reliable One  
P. O. Box 3193  
Orlando, FL 32802  
Attn: MTRS  
Email: [ilane@ouc.com](mailto:ilane@ouc.com)

### **Send all plans and drawings to:**

OUC–The Reliable One  
P. O. Box 3193  
Orlando, FL 32802  
Attn: Development Services

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## Introduction

This handbook is provided by OUC–The Reliable One as a guide for use by customers, electrical contractors, engineers, architects and local inspecting authorities. The specifications and procedures in this handbook are subject to change without notice. Therefore, communication between the user and OUC is essential in all circumstances. The following page provides the user with contacts within OUC.

If items in this handbook fall short of the most recent National Electrical Code (NEC) or local inspecting authority standards, the NEC and/or local standards will prevail. However, OUC reserves the right to exceed the NEC and local authority standards on installations that it serves.

Under no circumstances is compliance with the information contained within this handbook to relieve the user of his/her responsibility for compliance with all applicable codes or safety standards.

Electric service will not be energized until:

1. Specifications and requirements are met.
2. A contract for electric service has been made.  
(Call OUC Customer Service at 407.423.9018)
3. The electric service has passed local authority inspection and OUC has been notified by that authority.

If OUC turns down the service (does not install meter), OUC will leave a door hanger onsite indicating the reason why a meter was not installed. The Owner/Contractor is required to fix installation issues.

## Initial Contacts and Communication

- At the onset of any new project, contact OUC Development Services, 407.236.9651. A site plan showing the proposed project layout, a landscaping plan, stormwater retention and the electric service requirements (E-plans which include load calculations, power and voltage requirements, size of service, riser diagram, etc.) is required. Additionally, for multi-tenant buildings, the building addresses and unit numbers are needed as early as possible. It is important that the addresses used for permits match the addresses for which the orders for service are placed. OUC's Electric Engineering, 407.434.4427, will review the site plan and service requirements to assess the availability and location of service. Contact them for any changes to an existing electric service. If necessary, the Owner/Contractor/Developer may be required to pay in advance if any extension of existing facilities is required. The costs will be determined as set forth in OUC's Administrative Policy Manual. As your project proceeds you can contact OUC's Development Service Representatives for any additional information you may require.
- Temporary electric service may be required during the construction of your project. The Owner/Contractor/Developer is required to have a temporary pole installed on site and have a UL approved meter base properly attached to the pole (see page 6). For concrete block, residential, detached homes our Temporary Underground Service (TUG) program is available. It is the responsibility of the Owner/Contractor/Developer to request an electrical inspection from the City/County. Call OUC's Commercial Service Representatives, 407.423.9018, to place an application for the meter installation and account application. When the inspection clearance and application have been received, OUC will attempt to install a meter(s) within five (5) to seven (7) business days. (Note: three phase or CT service may require additional time for scheduling.) Deposits and/or connection fees are required to be paid prior to scheduling.
- Permanent electric service is the final electric service required to bring the building to completion for occupancy. Call OUC's Commercial Service Representatives, 407.423.9018, to establish the amount of security deposit required to be paid for the application of the permanent electric meter installation. It is the responsibility of the Owner/Contractor/Developer to request a final electrical inspection from the City/County. If OUC has not received an inspection clearance, services will not be energized and meters will not be set. The

City/County must be contacted to pursue the reason why a clearance was not received. When the final inspection clearance and application have been received by OUC Service Planning, OUC will attempt to install a meter(s) within five (5) to seven (7) business days. (Note: three phase service may require additional time for scheduling.)

- In order to schedule transformer stand-by or to energize a service after all requirements have been met, including inspection, contact OUC Underground Electric, 407.434.4111 or email [standbyrequest@ouc.com](mailto:standbyrequest@ouc.com). For services involving current transformers, call OUC Electric Operations, 407.434.4269, for any stand-by work or service changes. For a service change which requires OUC personnel after hours, additional overtime charges may apply.
- In order to schedule an appointment for meter installation in multi-tenant buildings, contact OUC Revenue Protection (see page 4). When the inspection clearance from the City/County and an application have been received, OUC will attempt to install meter(s) within three (3) business days after transformer(s) have been energized (see Underground Electric) provided the contractor has met all the requirements above. (Note: three phase service may require additional time for scheduling.) Inclement weather, emergency calls, exposed wiring or other conditions beyond OUC's control may cause delays. A representative for the Owner/Contractor/Developer must be on site to assist the OUC representative in verifying unit numbers and addresses. It is imperative that the meter bases are marked as stipulated on page 5. Additional trips to multi-tenant buildings will result in additional charges as set forth in OUC's Administrative Policy Manual.
- **Special Notice:** OUC now offers 400 amp services for single-phase residential services (320 amp socket meter w/bypass handle, no "K" base). For services 400 amps and less, OUC requires contractors in residential subdivisions to install the conduit from the transformer or junction box to the meter base.
- Conduit shall be used with the appropriate type elbows and shall be buried a minimum of 36". Warning tape shall be installed above all buried conduits. Five (5) to seven (7) days notice is necessary for OUC to run the permanent service to the house. Grey electrical grade schedule 40 or 80 pvc conduit (5° chamfered edges) is the approved pipe for underground residential installations unless the electrical engineer indicates otherwise. Long radius galvanized bends are to be installed on primary conduit runs involving a bend. Heating the pvc pipe is not allowed for bending. All installation questions should be directed to your OUC project manager.



## Initial Contact Telephone Directory

### Development Services

Plan review and project coordination . . . . .407.236.9651

### Commercial Services

Deposit, connection and service applications . . . . .407.423.9018

### Electric Engineering

Changes to existing electric service(s) . . . . .407.434.4427

### Electric Meter Shop

Inquire if CTs can be picked up (no scheduling) . . . .407.434.4057

### Underground Electric

Schedule stand-by or energize transformer . . . . .407.434.4111

### Revenue Protection

Schedule meter installation in multi-tenant buildings

East of Orange Blossom Trail . . . . .407.434.4082

West of Orange Blossom Trail . . . . .407.434.2507

St. Cloud . . . . .407.957.7323

**Service Planning** . . . . .407.423.9126 or 9116

### OUConvenient Lighting

Street and private lighting . . . . .407.434.2216

### Inspection Authorities

City of Orlando . . . . .407.246.2271

Orange County . . . . .407.836.5550

City of St. Cloud . . . . .407.957.7386

Osceola County . . . . .407.343.2225

**Sunshine State One-call** . . . . .800.432.4770

## Meter Base Requirements

- Meter bases are provided by the Customer/Contractor and shall be electrical grade, steel, UL listed and stickered, NEMA 3R, and have a maximum rating of 320 amps. Meter bases must have provision to accept an OUC lock or seal. Additionally, 320 amp bases must be on the Florida Meter Group (FMG) approved list. To reference the FMG list go to [www.ouc.com](http://www.ouc.com), click on Commercial > Development Services > Forms & Documents > OUC Shortlist [PDF].”
- For all commercial services and services over 200 AMPS, contact Electric Engineering first.
- Meter bases are provided for transformer-rated (CT) services. Electric Metering must receive information from Electric Engineering (see above) to issue any equipment. Instrument transformer cabinets must be provided by the Customer/Contractor. See specific requirements for these services.
- Multi-gang meter bases for residential type installations (apartments, condos) shall have a ring type cover.
- Meter bases for commercial services and 320 single-phase residential services shall be provided with lever bypass handles.
- Meter bases shall include a neutral conductor (except multi-gang).
- For multiple meter bases, such as multiple occupancy buildings and mobile home parks, meter bases must be clearly and permanently marked with element resistant labeling indicating the floor, suite, apartment, room or building served by the meter. Permanent numbers must be located on or adjacent to unit doors. This marking is required before the service connection is made by OUC. Final unit number/address verification will be made when meters are set. The Owner/Contractor must be on site to assist with this task. The following methods meet the requirement for clear and permanent marking and are acceptable.
  - \* Metal plates, riveted or bonded to meter base, with engraved or stamped lettering.
  - \* Plastic plates, riveted or bonded to meter base, with engraved or stamped lettering.
  - \* Vinyl decals with permanent adhesive. Paper decals with non-permanent adhesive will not be accepted.

Do not use paint or marking pens to label meter bases or plates attached to meter bases. The inside of the meter base shall be labeled with address or unit number with a permanent marker.

- Meter bases shall be surface mounted (do not recess) using the following approved fasteners:
  - \* Tap Conns
  - \* Lead Anchors
  - \* Toggle Bolts
  - \* 1/4" Nylon Nail-ins
  - \* ZINK Mushroom Head 1/4" Pin Drives
  - \* Screws (wood construction only)
  - \* Nylon Toggles (drywall construction only)
- Nails, shoot-in-nails, or plastic anchors are unacceptable and not approved.
- Meter bases must be attached to the structure in a quality fashion using good workmanship as to prevent binding or inoperability of the unit. Poor quality and workmanship can result in refusal of electric service.
- A clear space of 3 feet is required in front and to the side of all meters at all times. Please consult with OUC to avoid conflict with landscaping projects.
- Do not wire through the back of the meter socket.
- Use the provided conduit knockouts only.

## Additional Requirements

The Customer/Contractor must provide OUC with a suitable point of attachment for the electric service cable as required by the NEC. This point of attachment must be sufficient to allow proper cable clearance as stipulated by NEC/NESC as well as proper strength to support the cable weight. Shoot-in fasteners or plastic anchors should not be used. Insufficient points of attachment must be relocated and/or replaced at Customer/Contractor expense.

## Service Entrance Specifications for Commercial Services Over 200 AMPS and Single Phase Residential Services Over 400 AMPS (CT Required)

1. **Contact your OUC project engineer prior to construction** for approval of the location of the meter base, current transformers (CTs), CT cabinet and conduit size/routing; and allowable conductor size. The OUC Project Engineer will need information to fill out a Service & Metering Information form. This form will be sent to Electric Metering so that CT equipment may be picked up by the customer/contractor. See page 5 for further meter base requirements.
2. All material shall be electrical grade and UL listed and must conform to National Electrical Code (NEC), local requirements and OUC specifications.
3. The meter base and CTs will be supplied by OUC and installed by Customer/Contractor. Meter base must be grounded with #4 solid copper to the service grounding electrode conductor and must be externally visible (**do not place in service or metering conduit or raceway**). Meter ground wire shall be secured sufficiently with straps and lag screws.
4. Meter base to be surface mounted (**do not recess**). Use the provided knockouts only. Do not mount meter base with shoot-in fasteners or plastic anchors.
5. CT cabinet to be supplied and installed by customer/contractor. Cabinet size must conform to current NEC requirements. CT cabinet shall be Hoffman number A20R208HCR, A24R248HCR, A303012CTCJ, A363614CTCJ, or equal. Equivalents shall be approved by Electric Metering. CT Cabinets are for service entrance conductors ONLY and shall include a neutral conductor. For outside installations, a sealing type lock nut shall be used for conduits entering the top or sides of CT cabinet. No other circuits of any kind will be allowed.
6. Customer/contractor to supply and install a 1" to 1 1/2" conduit from CTs to meter base. Meter conduit shall be IMC rigid metallic or better above ground and PVC underground. Conduit shall be strapped sufficiently with 2 hole straps and lag screws. Conduit to enter the side or bottom of meter base. Use the provided knockouts only. No junction boxes are allowed in the conduit run nor splicing in the CT cabinet. **The**

distance from CT's to the meter should be kept under 40 linear feet. Exceptions must be approved by OUC project engineer and electric metering.

7. CT polarity mark (dot or H) shall face towards line feeding service (towards OUC). See additional drawing for wiring CT for single phase service. For 3 phase delta services, mount "high leg" CT at furthest right or bottom position. **No exceptions.**
8. On transformers with bushing CTs, Customer/Contractor shall not land secondaries until CTs have been installed. Coordinate with your OUC project engineer.
9. Customer/Contractor shall supply and install service entrance conductors from main panel through CT and/or weatherhead. Length of conductors out of weatherhead or CT to be determined by OUC Project Engineer and Electric Metering. Conductors must be color marked on the line side of the CT.
10. CTs will not be permitted in customer switchgear unless approved by OUC project engineer and electric metering. If approved, CTs must be located in a separate compartment designated for OUC metering only and the compartment must be OUC lockable.
11. Mount lightning arresters no more than 8" from weatherhead.
12. If installation does not conform to OUC specifications, the Customer/Contractor will be required to relocate or replace it at their expense.
13. Customer/Contractor shall install phone line conduit from meter area to customer's phone room for all single services with transformers 500kva and larger. (See spec drawing on page 43.)
14. CTs located inside a building must comply with all NEC rules regarding location of the cabinet.

### Electric Service Will Not Be Energized Until:

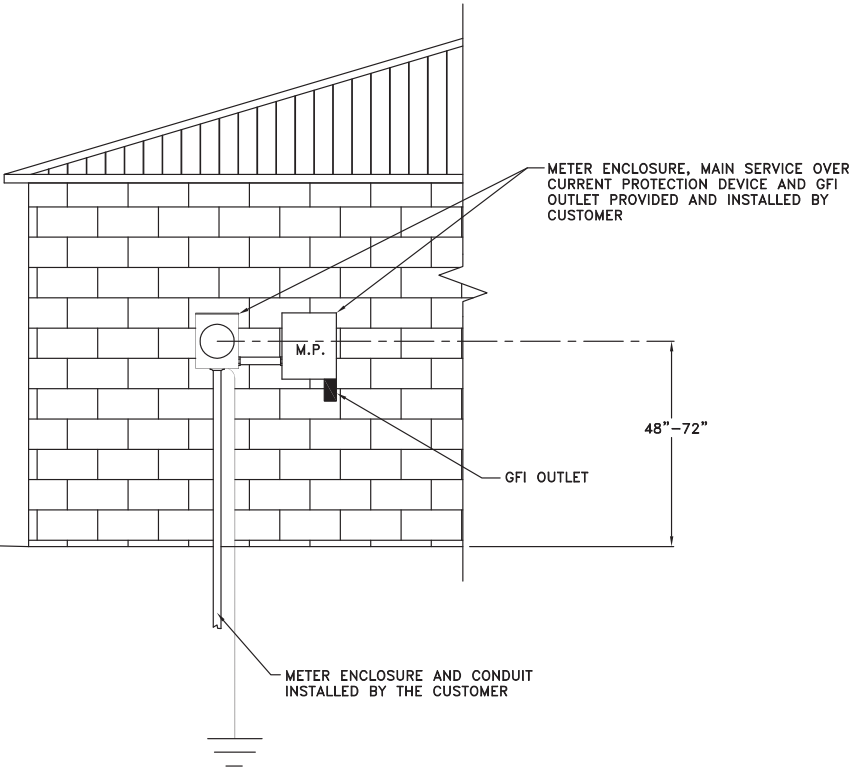
- Specifications and requirements are met.
- A contract for electric service has been made. (Call Customer Service.)
- The electric service has passed local authority inspection and OUC has been notified by that authority.

TEMPORARY UNDERGROUND (1-PHASE)  
RESIDENTIAL SERVICE  
(T.U.G.)

EE006

NOTE:

1. MUST BE SURFACE MOUNTED ON CONCRETE BLOCK WALL ONLY
2. DO NOT RECESS INTO STUCCO FINISHES.
3. CONTACT OUC ENGINEERING FOR SERVICES GREATER THAN 200 AMPERES.
4. SINGLE FAMILY DETACHED HOMES ONLY.
5. SINGLE PHASE ONLY, NO THREE PHASE.
6. NO CURRENT TRANSFORMER (C.T.) INSTALLATION.



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The Reliable One<sup>®</sup> OH & UG Distribution System  
Orlando Utilities Commission

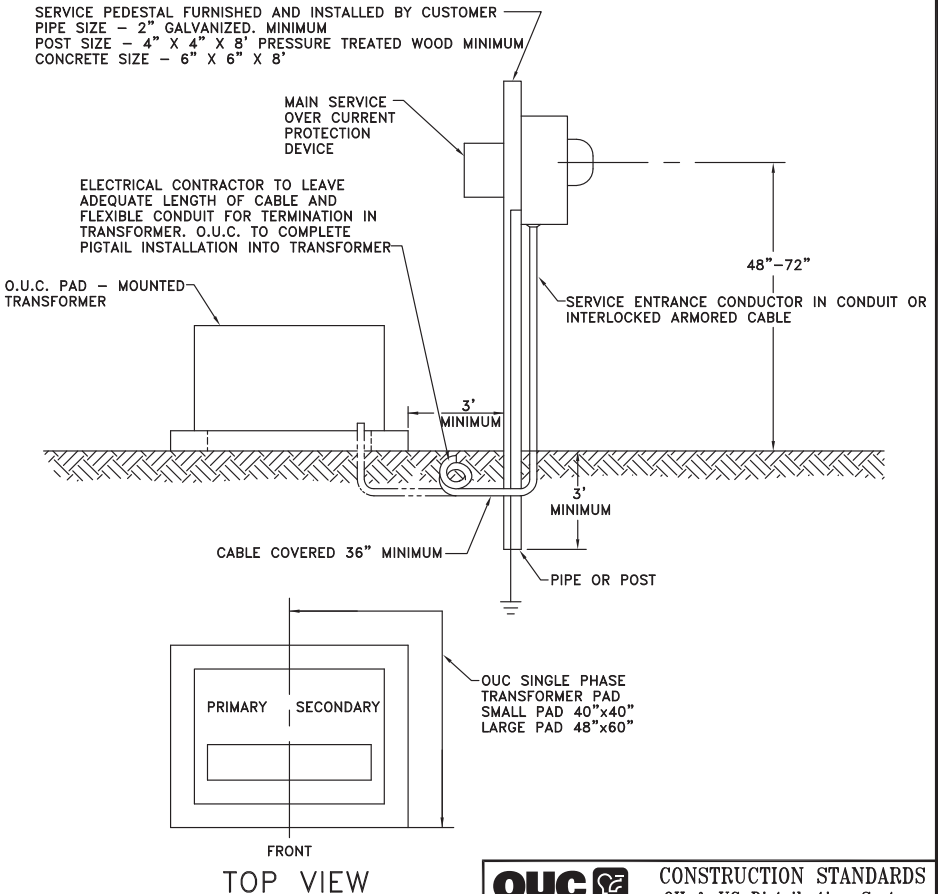
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				JORDAN		BRAMLETT	09-19-06

TEMPORARY CONSTRUCTION SERVICE FROM PADMOUNTED TRANSFORMER, SECONDARY JUNCTION BOX LESS THAN 200A

EE009

NOTE:

1. CUSTOMER MUST PROVIDE ADEQUATE GROUNDING OF FACILITIES IN ACCORDANCE WITH THE N.E.C. OR LOCAL CODES.
2. METER BASE PROVIDED AND INSTALLED BY CUSTOMER PER O.U.C. REQUIREMENTS.



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 OH & UG Distribution System  
 The Reliable One<sup>®</sup> Orlando Utilities Commission

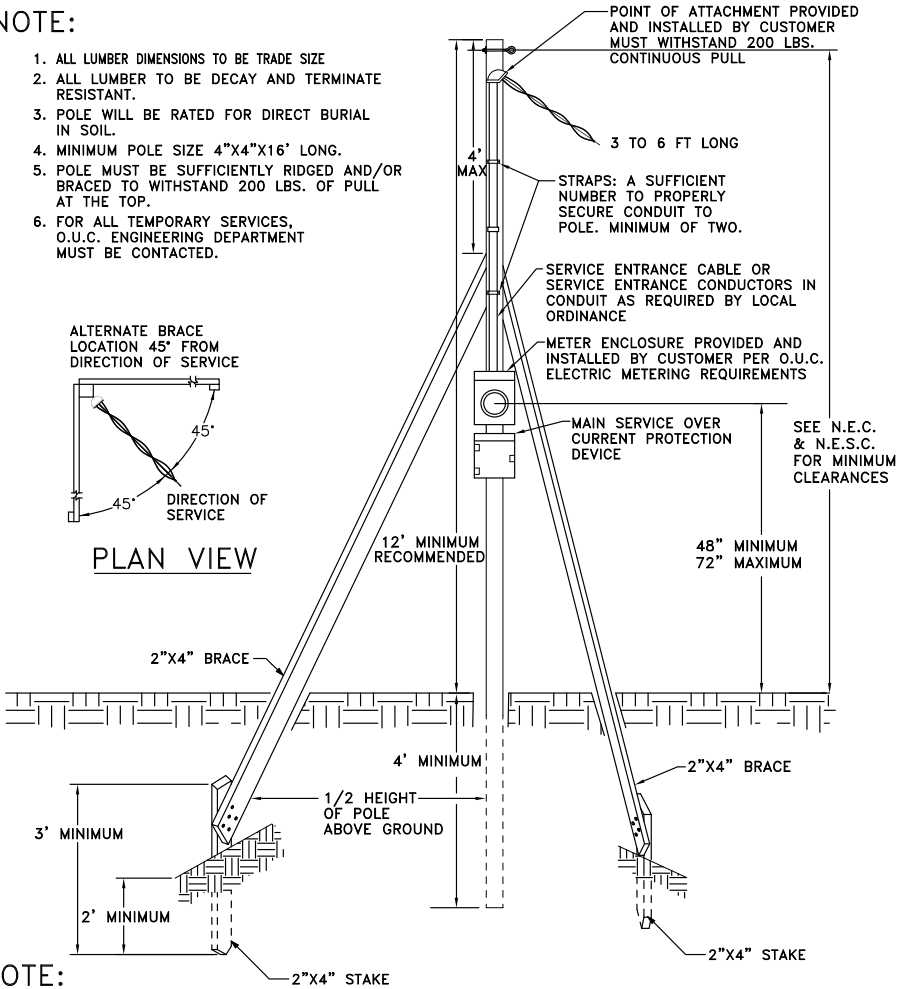
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				JORDAN		BRAMLETT	09-19-06

EE010

TYPICAL TEMPORARY CONSTRUCTION SERVICE POLE

NOTE:

1. ALL LUMBER DIMENSIONS TO BE TRADE SIZE
2. ALL LUMBER TO BE DECAY AND TERMINATE RESISTANT.
3. POLE WILL BE RATED FOR DIRECT BURIAL IN SOIL.
4. MINIMUM POLE SIZE 4"X4"X16' LONG.
5. POLE MUST BE SUFFICIENTLY RIDGED AND/OR BRACED TO WITHSTAND 200 LBS. OF PULL AT THE TOP.
6. FOR ALL TEMPORARY SERVICES, O.U.C. ENGINEERING DEPARTMENT MUST BE CONTACTED.



NOTE:

TYPICAL LAYOUT; SITE CONDITION & LENGTH OF SPAN MAY AFFECT DESIGN. CONTACT OUC ENGINEER FOR SPECIFIC DESIGN CRITERIA.

THIS IS NOT A DESIGN DRAWING BUT IS SIMPLY TO ILLUSTRATE A TYPICAL OVERHEAD TEMP. SERVICE FOR A SAWRIG



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OH & UG Distribution System  
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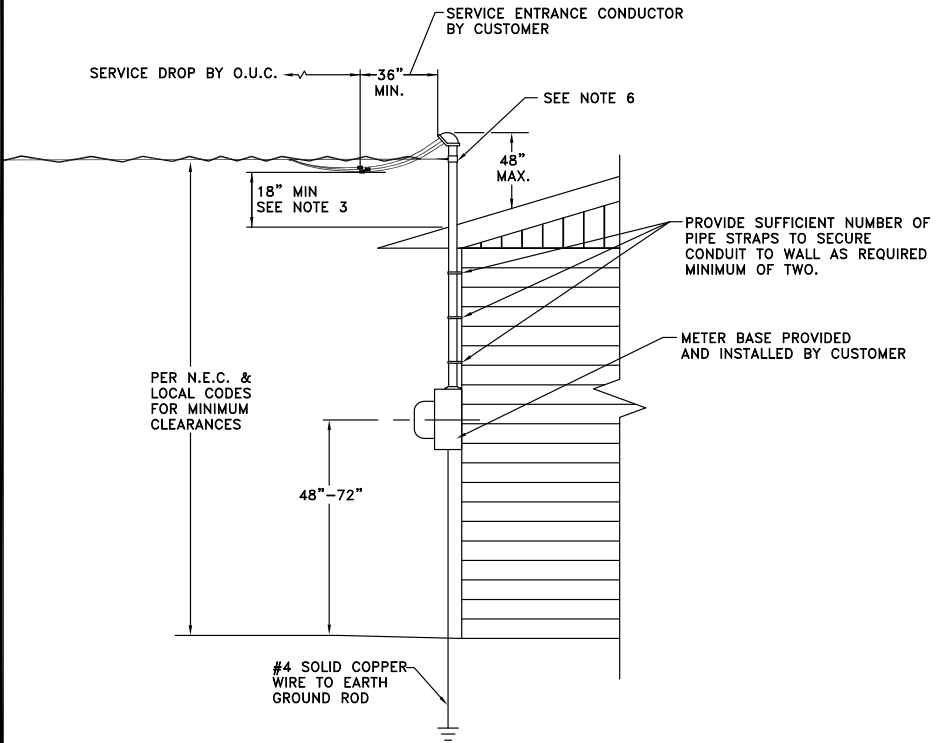


TYPICAL OVERHEAD RESIDENTIAL  
SERVICE INSTALLATION 400A OR LESS  
(SELF-CONTAINED METER BASE)

EE008

NOTE:

1. CATV OR TELEPHONE CABLE SHALL NOT BE ATTACHED TO THE SERVICE MAST.
2. FOR SPECIFIC HEIGHT REQUIREMENTS & CLEARANCE, REFER TO N.E.C. AND LOCAL CODES.
3. METER BASE PROVIDED AND INSTALLED BY CUSTOMER PER O.U.C. APPROVED METERING INSTALLATION REQUIREMENTS.
4. SERVICE RISER SHALL BE 2" MINIMUM RIGID METAL CONDUIT PROVIDED AND INSTALLED BY CUSTOMER. SERVICE RISER MUST WITHSTAND 200 LBS. OF CONTINUOUS PULL.
5. MAXIMUM CONDUIT HEIGHT ABOVE THE ROOF IS 48".
6. MEANS OF ATTACHMENT AS REQUIRED BY THE NEC.



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1	4/22/08	ADDED NOTE 6	R.T.	Drawn by	Checked by	Approved by	Date
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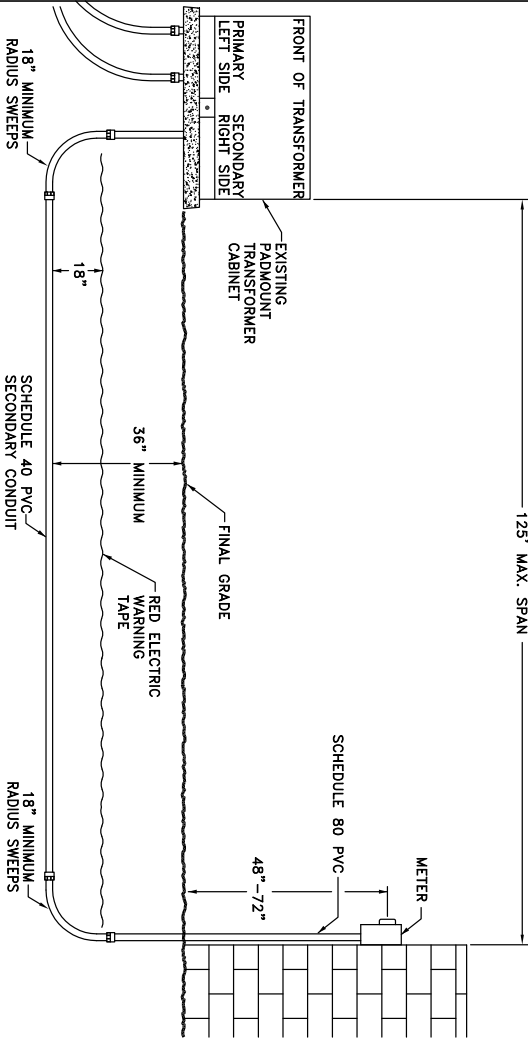
EE003

**SINGLE PHASE RESIDENTIAL UNDERGROUND SELF CONTAINED SERVICE (400 AMP OR LESS)**

CONTACT ELECTRIC ENGINEERING DEPARTMENT BEFORE STARTING WORK TO VERIFY DETAILS & TO INSURE THAT THE MOST CURRENT SPECIFICATIONS ARE USED.

**NOTE:**

1. TYPICAL LAYOUT: SITE CONDITIONS, AND LENGTH OF SPAN MAY AFFECT DESIGN. CONTACT OUC ENGINEER FOR SPECIFIC DESIGN CRITERIA (I.e. SPECIFIC CONDUIT SIZE, PVC VS. GALVANIZED SWEEPS.)
2. CONTACT: OUC STANDBY (MINIMUM 48 HOUR NOTICE) TO OPEN TRANSFORMER (407)384-4011.



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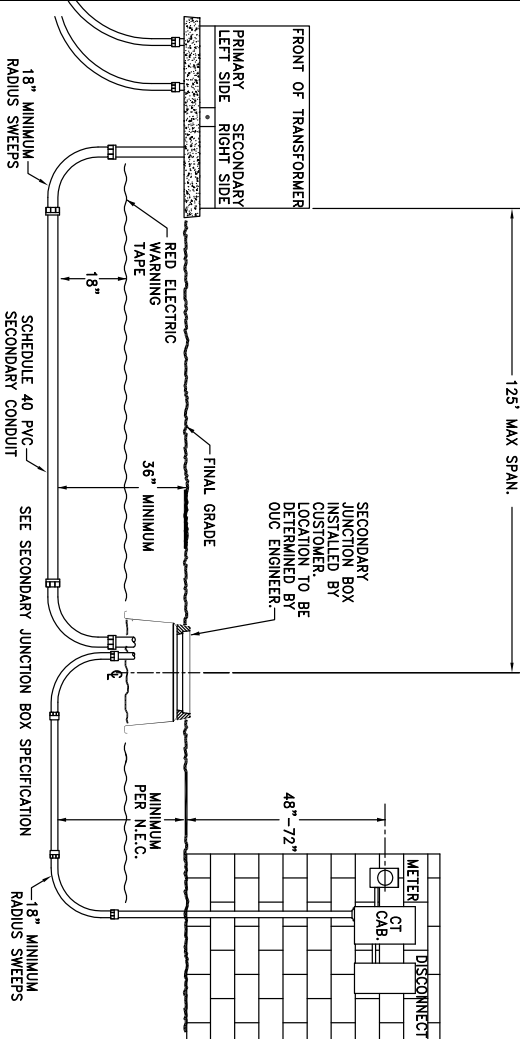
EE004

**SINGLE PHASE RESIDENTIAL UNDERGROUND SERVICE WITH CURRENT TRANSFORMER (CT'S)**

CONTACT ELECTRIC ENGINEERING DEPARTMENT BEFORE STARTING WORK TO VERIFY DETAILS & TO INSURE THAT THE MOST CURRENT SPECIFICATIONS ARE USED.

**NOTE:**

1. TYPICAL LAYOUT: SITE CONDITIONS, AND LENGTH OF SPAN MAY AFFECT DESIGN. CONTACT OUC ENGINEER FOR SPECIFIC DESIGN CRITERIA (I.e., SPECIFIC CONDUIT SIZE, PVC VS. GALVANIZED SWEEPS).
2. CONTACT: OUC STANDBY (MINIMUM 48 HOUR NOTICE) TO OPEN TRANSFORMER (407)384-4011.



**CONSTRUCTION STANDARDS**  
OH & UG Distribution System  
Orlando Utilities Commission

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1	4-22-06	DELETED EE011 FROM NOTE SEE SEC JUNC. BOX	RT	JORDAN		BRAMLETT	09-19-06

EE001

**SINGLE PHASE RESIDENTIAL UNDERGROUND SELF-CONTAINED SERVICE (400 AMP OR LESS)**

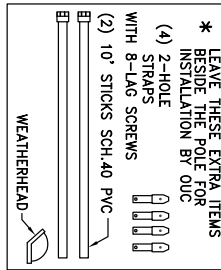
CONTACT ELECTRIC ENGINEERING DEPARTMENT BEFORE STARTING WORK TO VERIFY DETAILS & TO INSURE THAT THE MOST CURRENT SPECIFICATIONS ARE USED.

**NOTE:**

1. TYPICAL LAYOUT: SITE CONDITIONS, AND LENGTH OF SPAN MAY AFFECT DESIGN. CONTACT OUC ENGINEER FOR SPECIFIC DESIGN CRITERIA (i.e. SPECIFIC CONDUIT SIZE, PVC VS. GALVANIZED SWEEPS, AND RISER LOCATION ON POLE, ETC.)

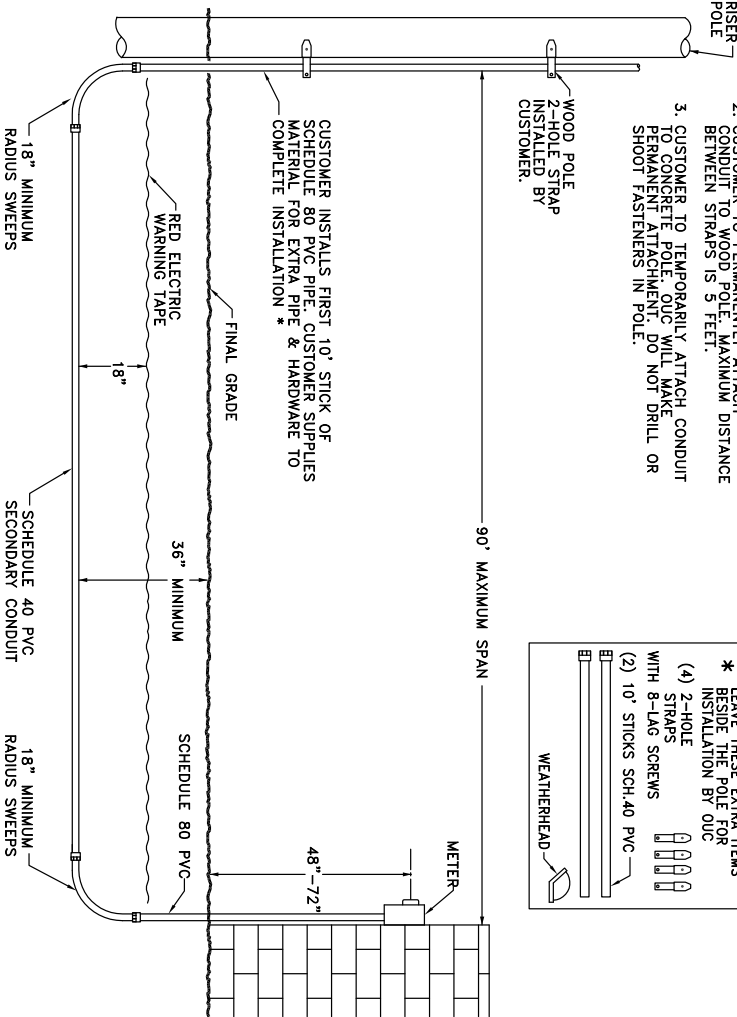
2. CUSTOMER TO PERMANENTLY ATTACH CONDUIT TO WOOD POLE. MAXIMUM DISTANCE BETWEEN STRAPS IS 5 FEET.
3. CUSTOMER TO TEMPORARILY ATTACH CONDUIT TO CONCRETE POLE. OUC WILL MAKE PERMANENT ATTACHMENT. DO NOT DRILL OR SHOOT FASTENERS IN POLE.

WOOD POLE  
2-HOLE STRAP  
INSTALLED BY  
CUSTOMER.



90' MAXIMUM SPAN

CUSTOMER INSTALLS FIRST 10' STICK OF SCHEDULE 80 PVC PIPE. CUSTOMER SUPPLIES MATERIAL FOR EXTRA PIPE & HARDWARE TO COMPLETE INSTALLATION \*



**CONSTRUCTION STANDARDS**  
 OH & UG Distribution System  
 Orlando Utilities Commission

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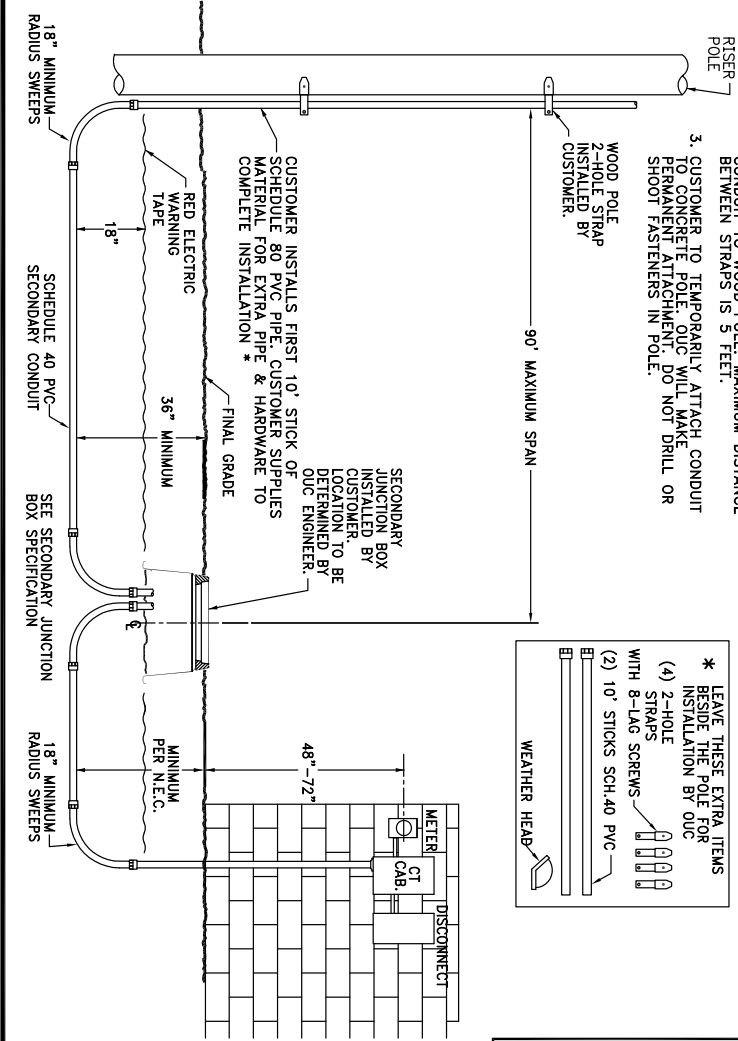
EE002

**SINGLE PHASE RESIDENTIAL UNDERGROUND SERVICE LARGER THAN 400 AMPS WITH CURRENT TRANSFORMER (CT'S)**

CONTACT ELECTRIC ENGINEERING DEPARTMENT BEFORE STARTING WORK TO VERIFY DETAILS & TO INSURE THAT THE MOST CURRENT SPECIFICATIONS ARE USED.

**NOTE:**

1. TYPICAL LAYOUT: SITE CONDITIONS, AND LENGTH OF SPAN MAY AFFECT DESIGN. CONTACT OUC ENGINEER FOR SPECIFIC DESIGN CRITERIA (I.e., SPECIFIC CONDUIT SIZE, PVC VS. GALVANIZED SWEEPS, AND RISER LOCATION ON POLE, ETC.)
2. CUSTOMER TO PERMANENTLY ATTACH CONDUIT TO WOOD POLE. MAXIMUM DISTANCE BETWEEN STRAPS IS 5 FEET.
3. CUSTOMER TO TEMPORARILY ATTACH CONDUIT TO WOOD POLE WITH PERMANENT ATTACHMENT DO NOT DRILL OR SHOOT FASTENERS IN POLE.



LEAVE THESE EXTRA ITEMS \* BESIDE THE POLE FOR INSTALLATION BY OUC

- (4) 2-HOLE STRAPS WITH 8-LAG SCREWS
- (2) 10' STICKS SCH. 40 PVC

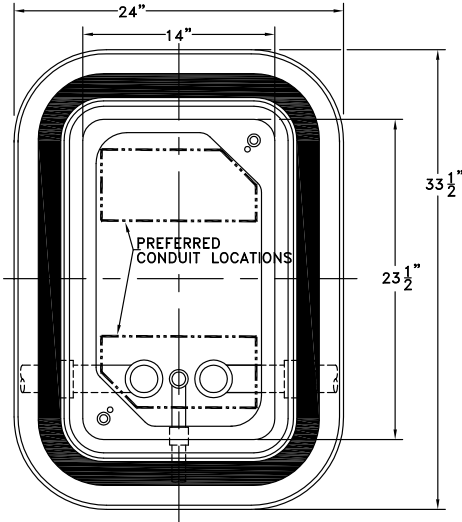
WEATHER HEAD

**ouc** CONSTRUCTION STANDARDS  
 OH & UG Distribution System  
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1	4-22-08	DELETED EE011 FROM NOTE SEE SEC JUNC. BOX	RT	Drawn by	Checked by	Approved by	Date
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EE011

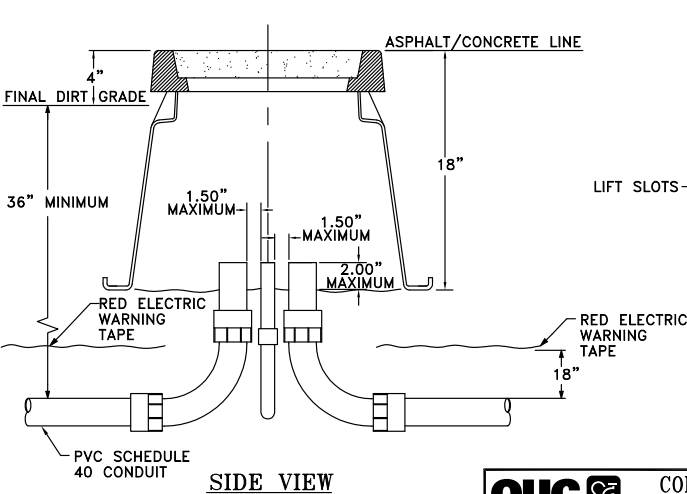
## SECONDARY JUNCTION BOX 13x24x18



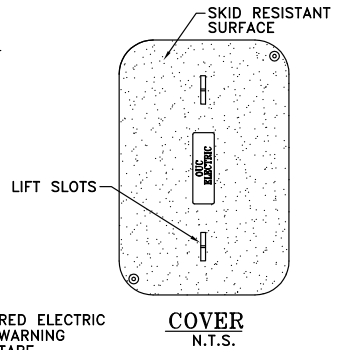
TOP VIEW

### NOTES:

1. BOX AND COVER TO BE OUC STOCK NO. 046-08000
2. TOP SURFACE OF JUNCTION BOX TO BE + 4" ABOVE FINAL GRADE.
3. ALL CONDUITS SHALL EXTEND 2" VERTICALLY ABOVE GROUND.
4. CONTACT OUC ENGINEER TO DETERMINE IF SWEEPS ARE TO BE PVC OR GALVANIZED.
5. USE PENTA HEAD LOCK DOWN BOLTS.
6. FOR CONCRETE INSTALLATIONS TOP SURFACE OF JUNCTION BOX TO FLUSH WITH FINAL GRADE.



SIDE VIEW

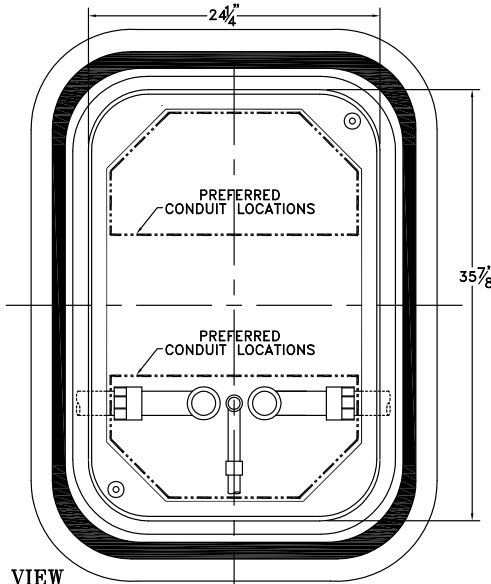


**CONSTRUCTION STANDARDS**  
OH & UG Distribution System  
Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN		BRAMLETT	09-19-06

## SECONDARY JUNCTION BOX 24x36x24

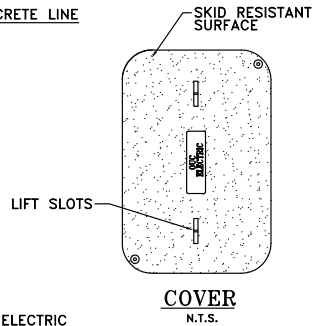
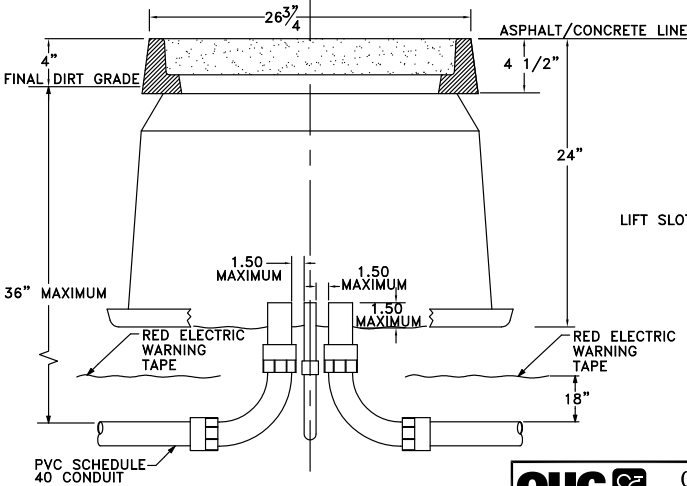
EE012



**NOTES:**

1. BOX AND COVER TO BE OUC STOCK NO. 046-07999
2. TOP SURFACE OF JUNCTION BOX TO BE + 4" ABOVE FINAL GRADE.
3. ALL CONDUITS SHALL EXTEND 2" VERTICALLY ABOVE GROUND.
4. CONTACT OUC ENGINEER TO DETERMINE IF SWEEPS ARE TO BE PVC OR GALVANIZED.
5. USE PENTA HEAD LOCK DOWN BOLTS.
6. FOR CONCRETE INSTALLATIONS TOP SURFACE OF JUNCTION BOX TO FLUSH WITH FINAL GRADE.

**TOP VIEW**



**CONSTRUCTION STANDARDS**  
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Orlando Utilities Commission

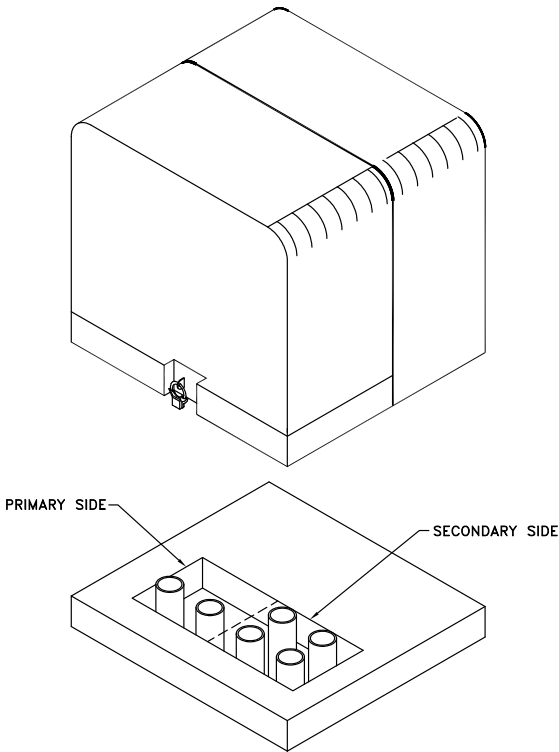
		REDRAWN WITH CDR SPECIFICATION		Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JJORDAN	X	BRAMLETT	09-19-06

EE007

**UNDERGROUND REQUIREMENTS FOR SINGLE-PHASE  
PAD-MOUNT TRANSFORMER INSTALLATIONS**

**NOTE:**

1. THE LOCATION OF THE CONCRETE PAD & CONDUITS WILL BE SPECIFIED BY O.U.C..
2. PAD-MOUNT TRANSFORMERS MUST MEET THE LOCATION REQUIREMENTS FOR OIL FILLED EQUIPMENT.
3. ALL SECONDARY CONDUITS SHALL BE INSTALLED FLUSH WITH THE TOP OF THE CONCRETE PAD.



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				JORDAN		BRAMLETT	09-19-06



REQUIREMENTS FOR THREE-PHASE & SINGLE PHASE  
UG PAD-MOUNT TRANSFORMER INSTALLATIONS

EE005

NOTE:

1. CONCRETE PAD AND CONDUIT LOCATIONS TO BE DETERMINED BY OUC ENGINEER.
2. THE CLEARANCE AREA SHALL HAVE NO LANDSCAPING, EQUIPMENT, STRUCTURE OR OBSTACLES THAT MAY IMPEDE ACCESSIBILITY TO O.U.C. TRANSFORMERS. CONTACT OUC ENGINEER FOR APPROVED LAYOUT.
3. 12 FOOT CLEARANCE REQUIRED ON DOOR SIDE (FRONT) OF TRANSFORMER.
4. CONTACT O.U.C ENGINEER FOR SPECIFIC PAD SPECIFICATION.

THREE PHASE INSTALLATIONS

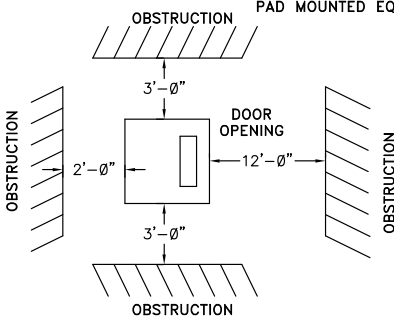
SECONDARY VOLTAGE AVAILABLE	KVA	MAXIMUM ALLOWED CABLES PER PHASE	APPROVED CONDUCTOR	
			TYPE	CABLE SIZE
120/208Y 120/240V	75	*8	COPPER	1/0
	150	*8		2/0
	300	8		350 KCM
	500	10		500 KCM
	750	12		600 KCM
	1000	14		750 KCM
277/480Y	1500	16	ALUMINUM	1/0
	150	*8		2/0
	300	8		3/0
	500	8		4/0
	750	10		250 KCM
	1000	10		350 KCM
	1500	10		500 KCM
	2000	12		600 KCM
	2500	14		750 KCM

\* A MULTI-PORT LUG OR SPADE EXTENSION MAY BE REQUIRED FOR MORE THAN 4 CONDUCTORS PER PHASE CONTACT O.U.C. ENGINEER.

SINGLE PHASE INSTALLATIONS

SECONDARY VOLTAGE AVAILABLE	MAXIMUM ALLOWED CABLES PER PHASE	APPROVED CONDUCTOR	
		TYPE	CABLE SIZE
25 KVA 120/240V 240/480V	8	COPPER ALUMINUM	# 6 TO 500 MCM
50 KVA 120/240V 240/480V	8	COPPER ALUMINUM	# 6 TO 500 MCM
100 KVA 120/240V 240/480V	8	COPPER ALUMINUM	# 6 TO 500 MCM
167 KVA 120/240V 240/480V	8	COPPER ALUMINUM	# 6 TO 500 MCM

PAD MOUNTED EQUIPMENT CLEARANCE AREAS



CONSTRUCTION STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN		BRAMLETT	09-19-06

EE013

SPADE LUGS

CONDUCTOR TERMINAL LUG:

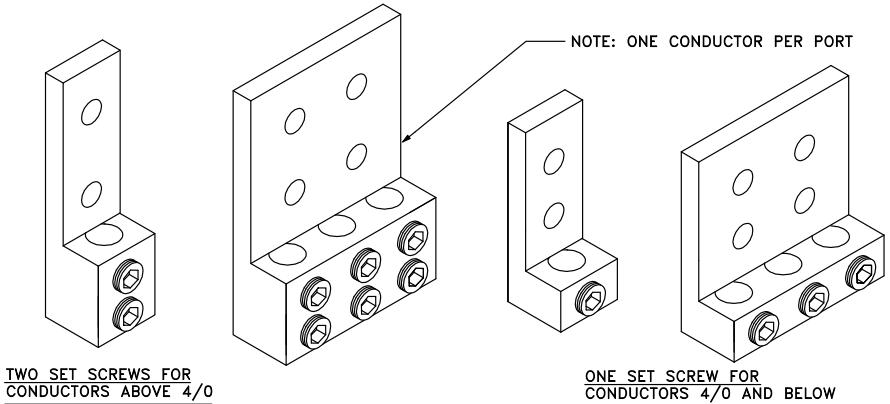
TERMINAL LUG (ONLY NEMA APPROVED LUGS ARE ACCEPTABLE.) SHALL HAVE AN AMPACITY RATING EQUAL TO OR GREATER THAN THE CONDUCTOR (S) CONNECTED TO IT. TERMINAL LUG SHALL BE CAPABLE OF ACCEPTING EITHER ALUMINUM OR COPPER CONDUCTORS AND PRE FILLED BY MANUFACTURER WITH AN OXIDE INHIBITOR.

TERMINAL LUG SHALL HAVE AT LEAST TWO CIRCULAR MOUNTING HOLES FOR SINGLE CONDUCTORS OR FOUR CIRCULAR MOUNTING HOLES FOR MULTI-CONDUCTORS. 0.562 (9/16) INCHES IN DIAMETER AND SPACED 1.750 (1 3/4) INCHES CENTER TO CENTER (STANDARD NEMA SPACING FOR MOUNTING HOLES.) USE ONLY LUGS WHICH WILL NOT CONFLICT WITH OTHER LUGS, SPADES OR CURRENT TRANSFORMERS.

TERMINAL LUG CONNECTOR SHALL BE COMPRESSION TYPE OR SET SCREW TYPE. SET SCREW TYPE CONNECTORS MUST HAVE TWO (2) SET SCREWS PER CONDUCTOR FOR ALL CONDUCTORS OVER 4/0 IN SIZE. (SEE DRAWING BELOW.)

TIGHTENING BOLT AND NUT: USE TWO WRENCHES TO GAIN EQUAL OPPOSITION WHICH REDUCES THE CHANCE OF BUSHING LEAKAGE OR BREAKAGE.

1Ø PADMOUNT TRANSFORMER : EIGHT (8) CONDUCTORS PER PHASE MAXIMUM. (BACK TO BACK LUGS WILL NOT BE PERMITTED.)  
 3Ø PADMOUNT TRANSFORMER : EIGHT (8) CONDUCTORS PER PHASE TYPICAL.



MOUNTING HARDWARE

BOLT: 1/2" - 13 THDS/INCH UNC - HEX HEAD (3/4" ACROSS FLATS)  
 NUT: 1/2" - 13 THDS/INCH UNC - HEX HEAD (3/4" ACROSS FLATS)  
 WASHER: TWO TYPE "A" PLAIN, ONE WIDE SERIES, AND ONE LOCKWASHER.

FINAL ASSEMBLY OF BOLT AND NUT SHOULD RESULT IN BOLT THREADS EXTENDING 1/4" MINIMUM BEYOND NUT.

SPADE LUGS CAN TYPICALLY BE FOUND IN 1, 2, 3, 4, 6, AND 8 PORT CONFIGURATIONS. SOME LUGS MAY NEED MINOR MODIFICATIONS TO ALIGN WITH SPADE MOUNTING HOLES.

4	5-9-00	BACK TO BACK LUGS NOT PERMITTED	C.E.	<p><b>CONSTRUCTION STANDARDS</b>                  OH &amp; UG Distribution System                  Orlando Utilities Commission</p>								
3	1-13-95	ADDED NOTE (CURRENT TRANS.)										
2	9-03-92	ADDED NOTE										
No.	Date	Revision	Ck.	<table border="1"> <tr> <td>Drawn by</td> <td>Checked by</td> <td>Approved by</td> <td>Date</td> </tr> <tr> <td>JORDAN</td> <td></td> <td>BRAMLETT</td> <td>02-18-07</td> </tr> </table>	Drawn by	Checked by	Approved by	Date	JORDAN		BRAMLETT	02-18-07
Drawn by	Checked by	Approved by	Date									
JORDAN		BRAMLETT	02-18-07									

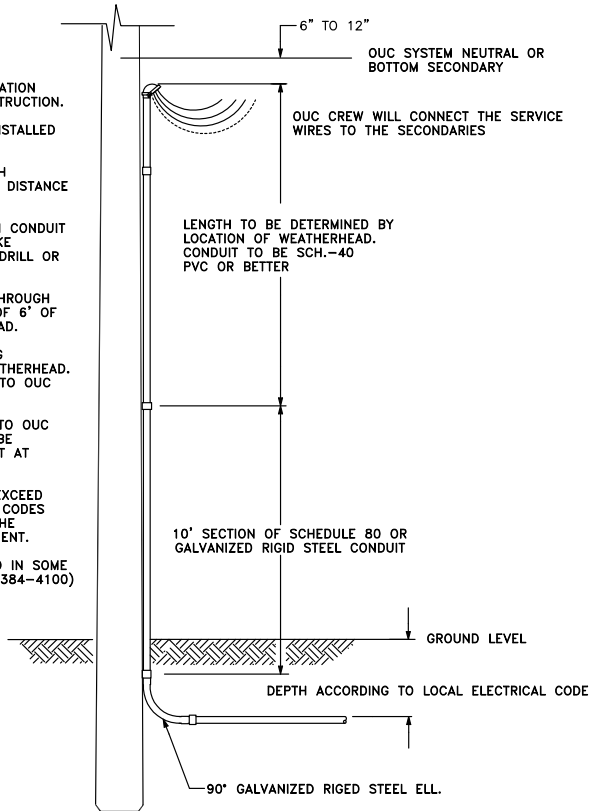
S1

COMMERCIAL UNDERGROUND SECONDARY RISER

NOTES:

1. CONTACT OUC ENGINEER FOR THE LOCATION OF CONDUIT ON POLE PRIOR TO CONSTRUCTION.
2. ALL MATERIAL TO BE SUPPLIED AND INSTALLED BY CUSTOMER.
3. a) CUSTOMER TO PERMANENTLY ATTACH CONDUIT TO WOOD POLE. MAXIMUM DISTANCE BETWEEN STRAPS IS 5 FEET.  
b) CUSTOMER TO TEMPORARILY ATTACH CONDUIT TO CONCRETE POLE. OUC WILL MAKE PERMANENT ATTACHMENT. DO NOT DRILL OR SHOOT FASTENERS IN POLE.
4. CUSTOMER TO INSTALL CONDUCTORS THROUGH THE WEATHERHEAD, WITH A MINIMUM OF 6" OF CONDUCTORS OUT OF THE WEATHERHEAD.
5. CUSTOMER TO CONNECT THE LIGHTNING ARRESTER LEADS 6" TO 8" FROM WEATHERHEAD. DO NOT ATTACH LIGHTNING ARRESTER TO OUC EQUIPMENT.
6. IF INSTALLATION DOES NOT CONFORM TO OUC SPECIFICATIONS, THE CUSTOMER WILL BE REQUIRED TO RELOCATE OR REPLACE IT AT HIS OR HER EXPENSE.
7. ENTIRE INSTALLATION MUST MEET OR EXCEED ALL LOCAL AND NATIONAL ELECTRICAL CODES AND WILL REMAIN A COMPONENT OF THE OWNER / CUSTOMERS SERVICE EQUIPMENT.

\* GALVANIZED RIGID STEEL MAY BE REQUIRED IN SOME LOCATIONS. CONTACT OUC ENGINEER (407 384-4100) AND THE LOCAL ELECTRICAL INSPECTOR.



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Orlando Utilities Commission

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				JORDAN		BRAMLETT	02-18-07

**INDEX FOR METER BASE INSTALLATIONS**

Service Size	Phases	Installation Type	OUC Meter Network	OUC Meter Traditional	Drawing
100A	1	2 Wire 120V OH	3AR	3A	M1
	1	3 Wire 120/240v OH	5CR	5C	M2
200A	1	3 Wire 120/240v	5CR	5C/5CM	M3, 4
	1	3 Wire 120/208v Network*	5XR	5X	M5
	1	3 Wire 240/480	5CM (node)	5CV	M12
	1	3 Wire 277/480	Go to 3 Phase	N/A	N/A
200A	3	4 Wire 120/208v Y	<b>5ZR</b>	<b>5ZM</b>	M6
	3	4 Wire 120/240v Delta			M6
	3	4 Wire 277/480v			M13
	3	4 Wire 240/480v Delta			M13
>200A	1	3 Wire 120/240v Commercial	1JR	1JM	M11
	1	3 Wire 120/208v	Go to 3 Phase	N/A	—
	1	3 Wire 240/480v	1JR w/PT	1JM 120v w/PT	M11
	1	3 Wire 277/480v	N/A	N/A	N/A
400A	1	3 Wire 120/240v Residential	5CE	5CE	M15
>200A	3	4 Wire 120/208v Y	<b>1ZR</b>	<b>1ZM</b>	M7 - M9
	3	4 Wire 120/240v Delta			
	3	4 Wire 277/480v			
	3	4 Wire 240/480v Delta			

\* Contractor must install 5th terminal in meter base

NOTE FOR OUC:

1XM, 1YM, 1SM, 1UM meters get replaced with 1ZR meters

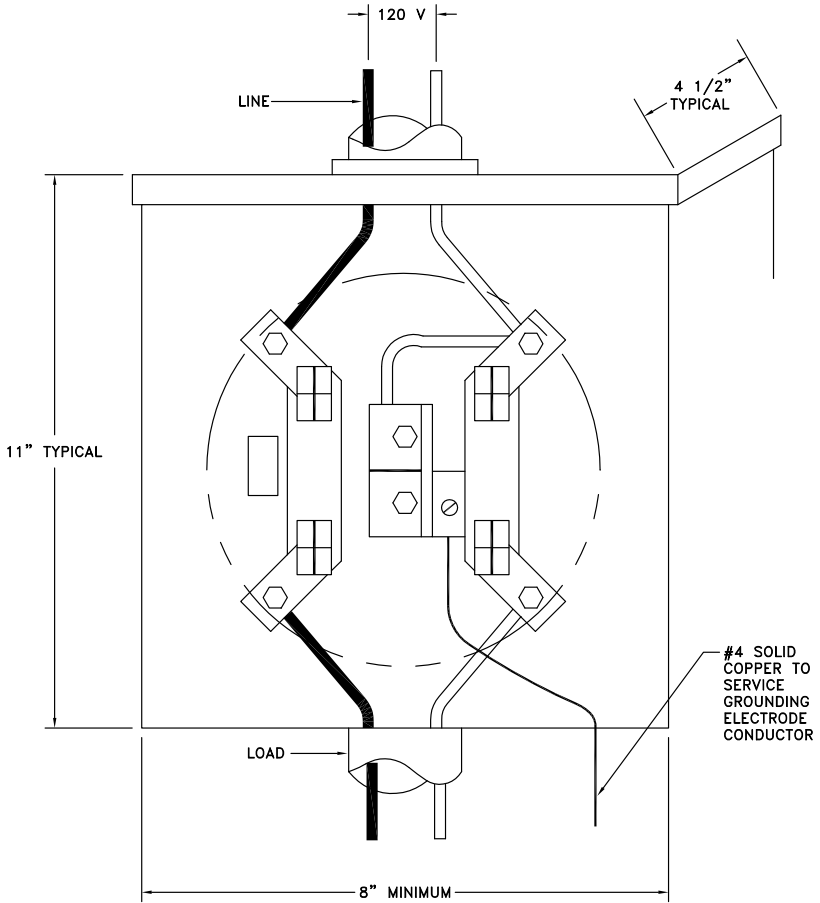
1WM, and 1TM meters get replaced with 1ZR after meter base wiring modifications

5WM, 5TM, 5YM, 5UM get replaced with 5ZR

5CD & 5XD meters are identical to 5CR and 5XR except with an internal disconnect

SPECIAL APPLICATION 120V SINGLE PHASE,  
2 WIRE, METER SOCKET FOR 100 AMP MAX OVERHEAD SERVICE

M1



\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

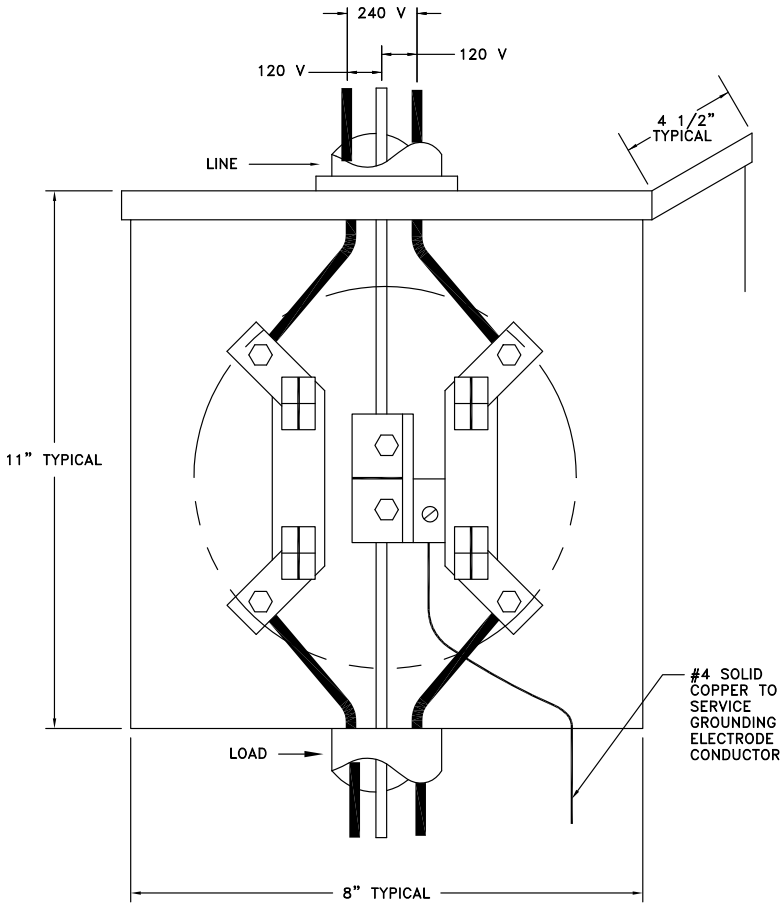


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OH & UG Distribution System  
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No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
1	09-11-97	Changed Various Text Sizes	RLF	JORDAN			8-26-92

M2

SPECIAL APPLICATION 120/240V SINGLE PHASE,  
3 WIRE METER SOCKET FOR 100 AMP MAX. OVERHEAD SERVICE



\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

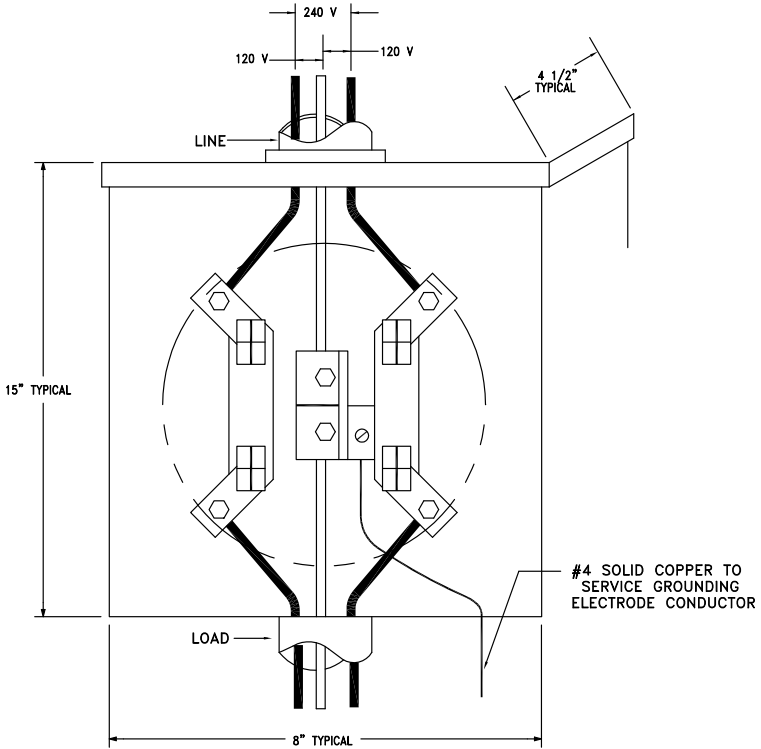


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OH & UG Distribution System  
Orlando Utilities Commission

1	9-11-97	Changed Various Text Sizes	RLF	Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JORDAN			8-26-92

M3A

TYPICAL OVERHEAD RESIDENTIAL  
120/240V SINGLE PHASE, 3 WIRE METER  
SOCKET FOR 200 AMPS MAXIMUM SERVICE



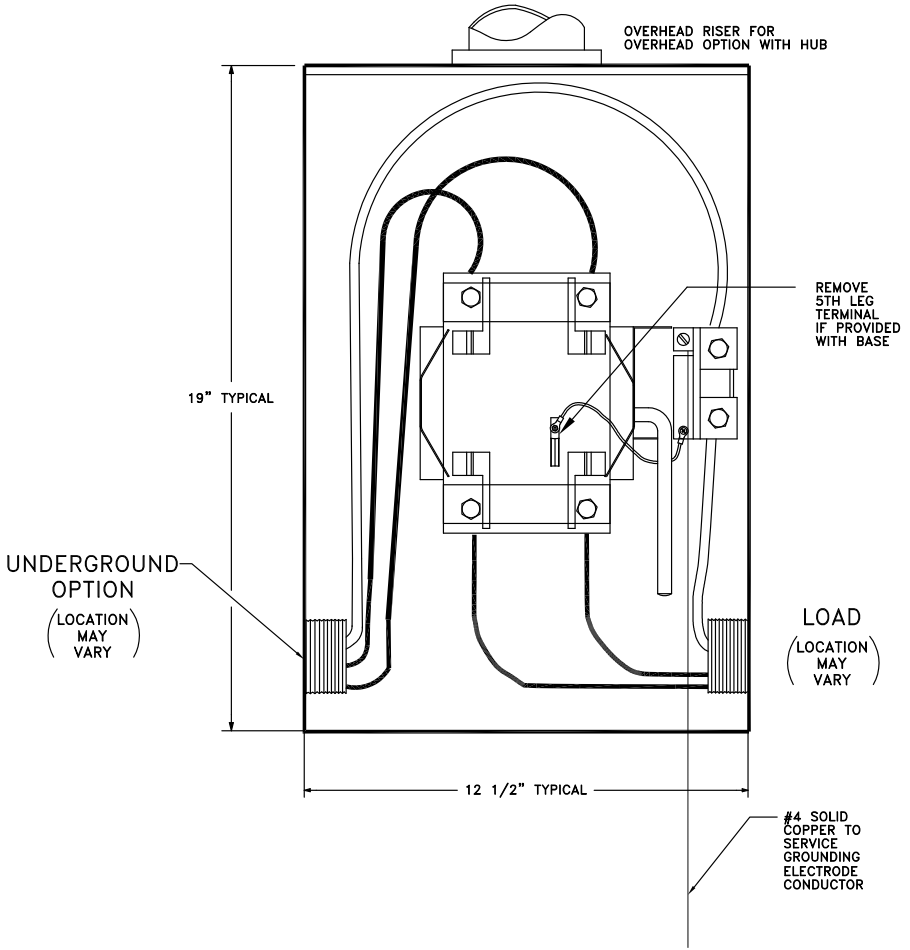
\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

<b>OUC</b> The Reliable One™	<b>METERING STANDARDS</b>		
	OH & UG Distribution System Orlando Utilities Commission		

1	09-11-97	Changed Text Size, Added Note	RLF	Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JORDAN			8-28-92

M3B

TYPICAL COMMERCIAL 120/240V SINGLE PHASE,  
3 WIRE METER SOCKET FOR 200 AMPS MAX. SERVICE



\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS



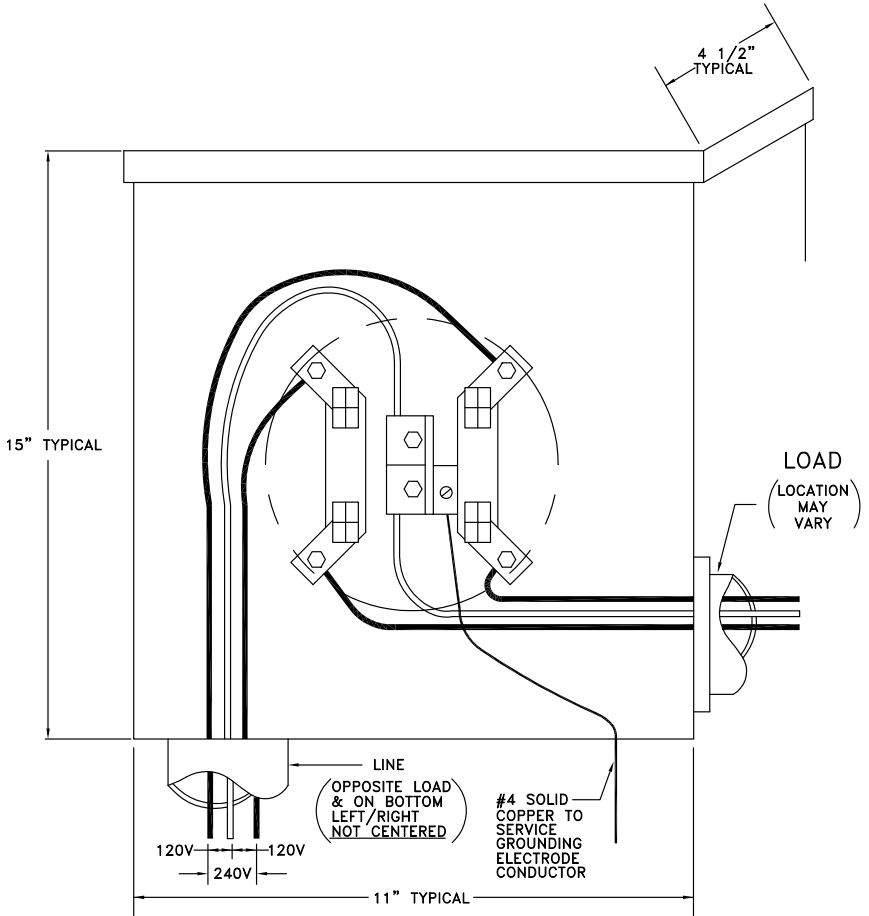
METERING STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN			09-12-97



TYPICAL UNDERGROUND RESIDENTIAL 120/240V,  
 1Ø, 3 WIRE, METER SOCKET FOR 200 AMPS MAX. SERVICE

M4



\* DO NOT WIRE THRU BACK OF SOCKET  
 USE PROVIDED KNOCKOUTS ONLY  
 DO NOT RECESS

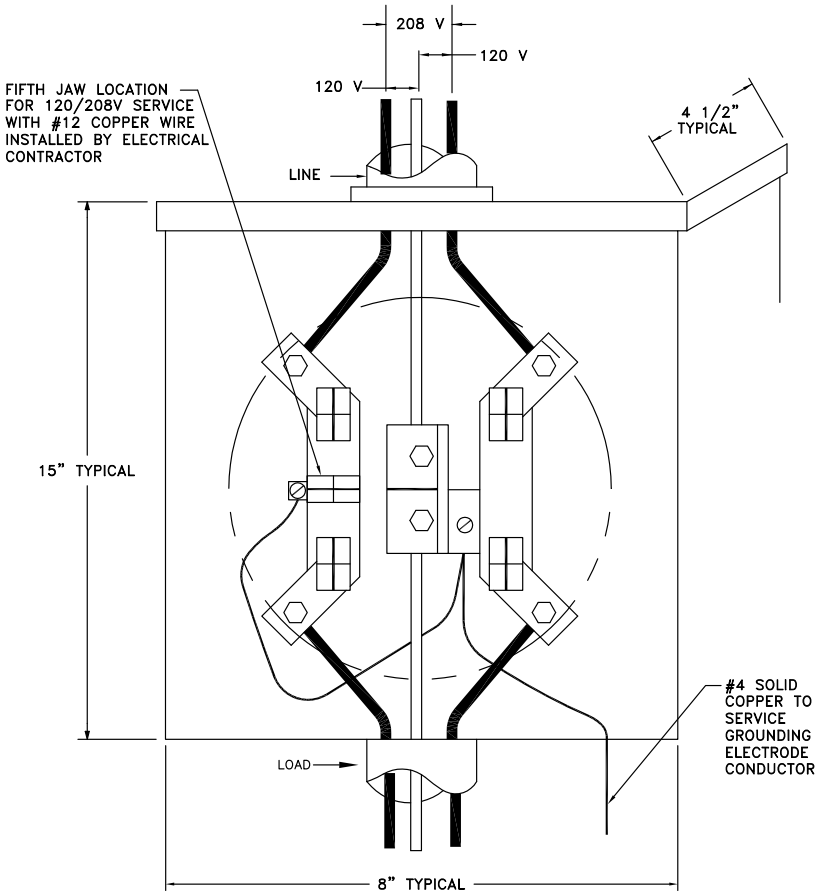


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 OH & UG Distribution System  
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2	09-11-97	Changed Text Size	RLF	Drawn by	Checked by	Approved by	Date
1	3-20-96	Move Line Location		JORDAN			8-26-92
No.	Date	Revision	Ck.				

M5A

TYPICAL RESIDENTIAL NETWORK 120/208V, 1Ø  
3 WIRE, METER SOCKET FOR OVERHEAD SERVICE 200 AMPS MAX



\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

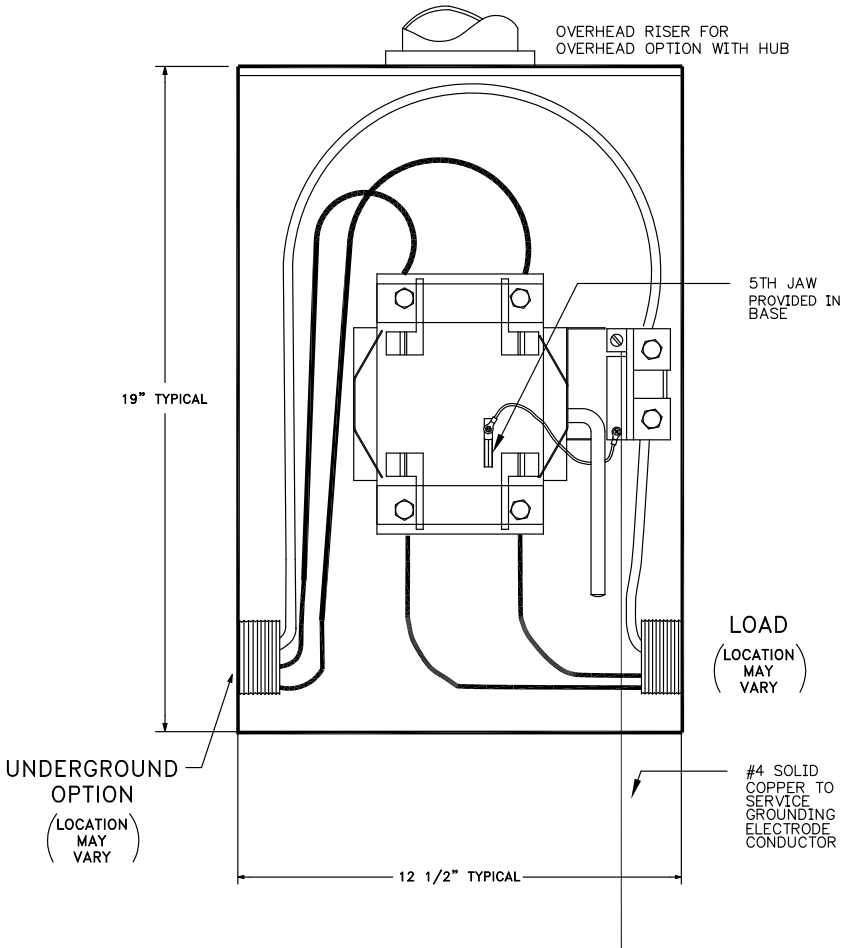


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No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
1	09-11-97	Changed Title, Various Text Sizes	RLF	JORDAN			8-26-92

TYPICAL COMMERCIAL NETWORK 120/208V, 1Ø  
3 WIRE, METER SOCKET FOR 200 AMPS MAX. SERVICE

M5B



\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

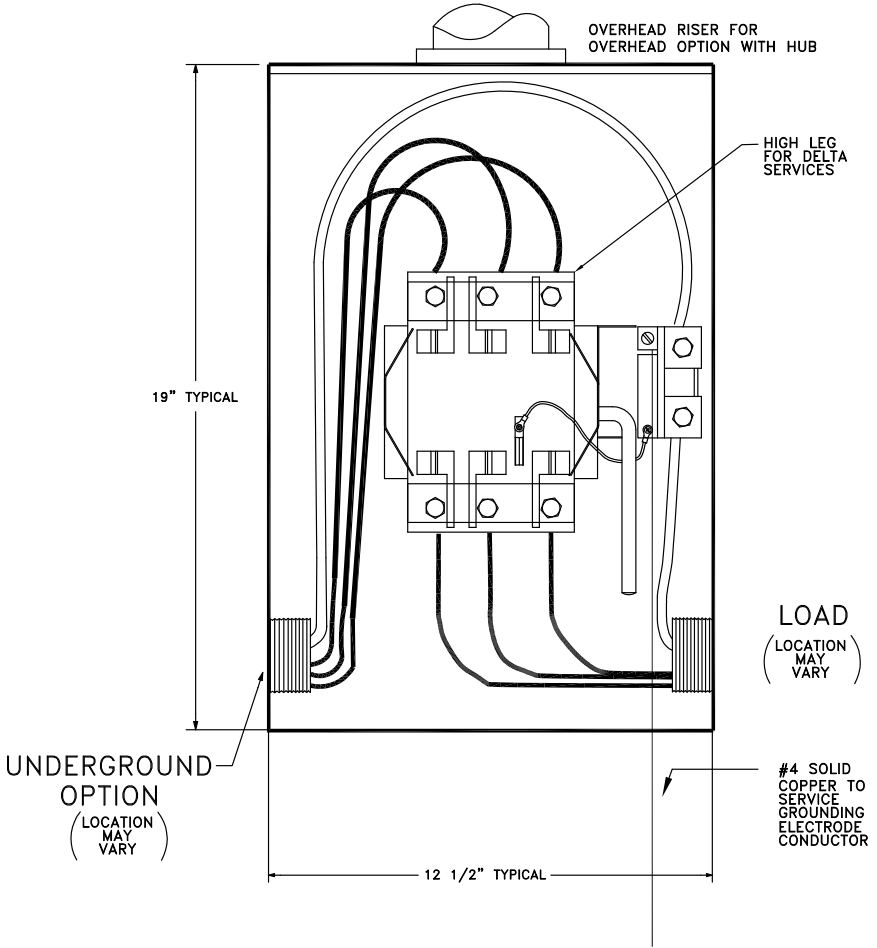


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No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN			09-12-97

M6

TYPICAL 3 PHASE WYE OR DELTA, 4 WIRE,  
METER SOCKET FOR 200 AMPS MAX. SERVICE



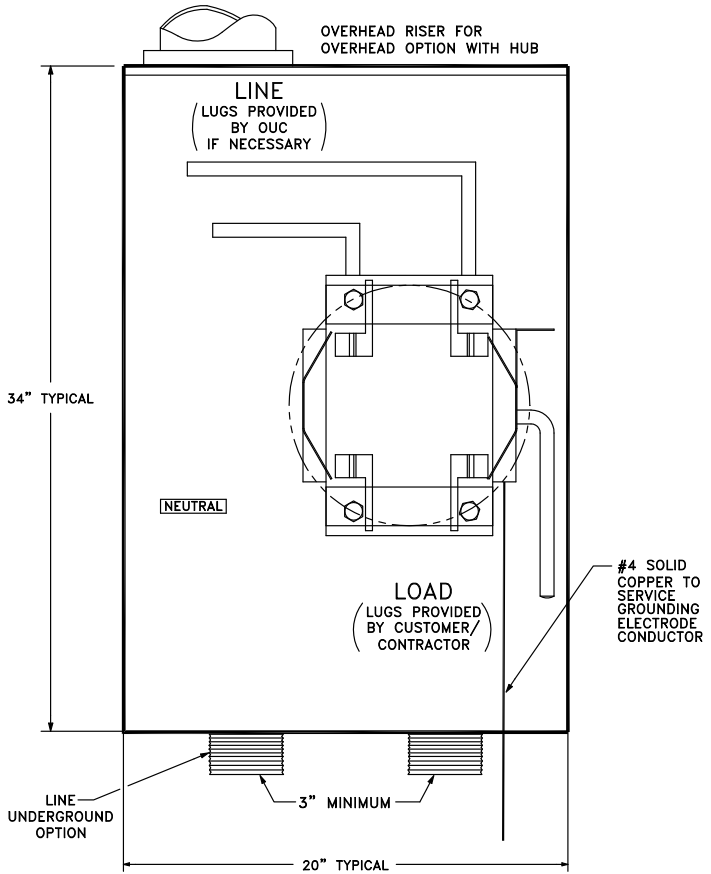
\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

 The Reliable One <sup>SM</sup>	METERING STANDARDS OH & UG Distribution System Orlando Utilities Commission		
	Drawn by JORDAN	Checked by	Approved by

No.	Date	Revision	Ck.

TYPICAL RESIDENTIAL 120/240V SINGLE PHASE,  
3 WIRE SOCKET FOR 400 AMP MAXIMUM SERVICE  
(320 AMP SOCKET METER)

M15



NOTES:

1. NO "K" BASES
2. REFERENCE FLORIDA METER GROUP FMG LIST (STEEL ONLY)

\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

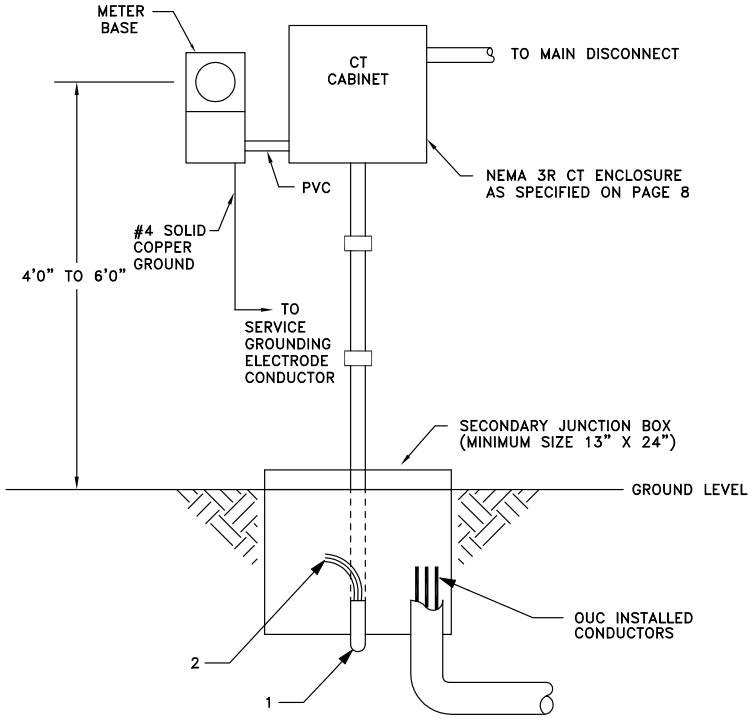


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OH & UG Distribution System  
Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN			11-18-06

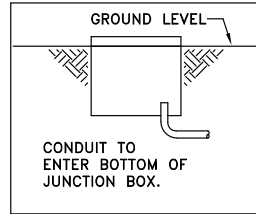
UNDERGROUND 1Ø RESIDENTIAL SERVICE ENTRANCE  
LARGER THAN 400 AMP. (CT REQUIRED)

M10



NOTES:

1. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL CONDUIT PER NEC REQUIREMENTS.
2. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL SERVICE ENTRANCE CONDUCTORS FROM MAIN PANEL THROUGH TO O.U.C. SECONDARY JUNCTION BOX. ALLOW A MINIMUM OF 4' (FEET) OF CONDUCTOR IN SECONDARY BOX FOR MAKEUP BY O.U.C. PER NEC REQUIREMENTS.



DETAIL

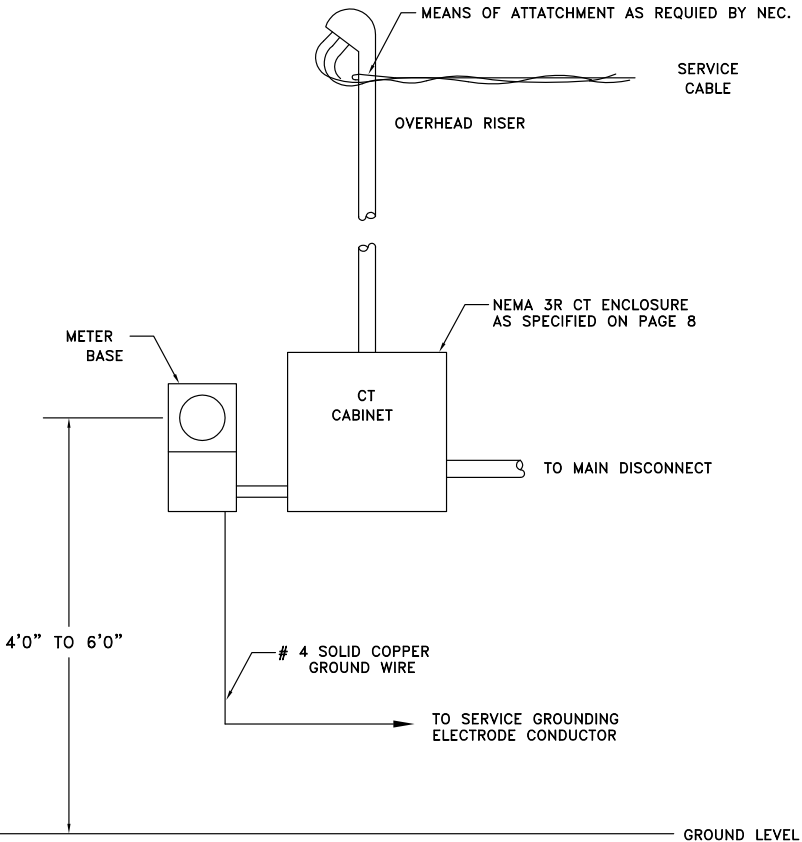


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2	09-11-97	Added & Changed Note	RLF			
1	1/27/93	Revised to restrict application		Drawn by	Checked by	Approved by
No.	Date	Last Revision	Ck.	JORDAN		
						Date

OVERHEAD SERVICE ENTRANCE LARGER THAN 200 AMPS (CT REQUIRED) WITH CT CABINET

M7A



NOTE:

1. CONDUCTORS MUST BE COLOR MARKED IN CT CABINET ON LINE SIDE OF CT. FOR DELTA SERVICES, MOUNT CT FOR HIGH LEG TO THE RIGHT OR BOTTOM.
2. CT'S REQUIRED FOR COMMERCIAL SERVICES LARGER THAN 200 AMPS.
3. FOR CT'S LOCATED INSIDE A BUILDING REFER TO THE NEC REGARDING LOCATION OF THE CABINET.

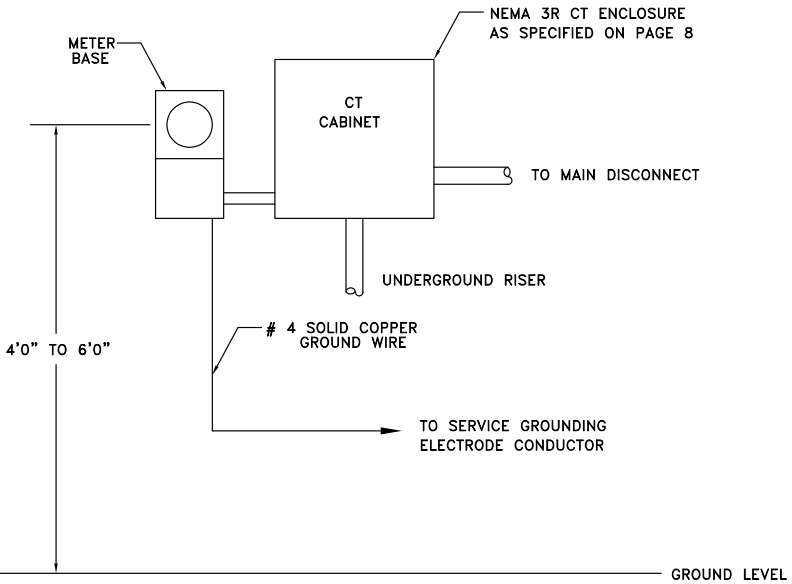


METERING STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

1	4-22-08	ADDED NOTE 3 & NEC NOTE	RT	Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JORDAN			09-11-97

UNDERGROUND SERVICE ENTRANCE LARGER THAN 200 AMPS (CT REQUIRED) WITH CT CABINET

M7B



NOTE:

1. CONDUCTORS MUST BE COLOR MARKED IN CT CABINET ON LINE SIDE OF CT. FOR DELTA SERVICES, MOUNT CT FOR HIGH LEG TO THE RIGHT OR BOTTOM.
2. CT'S REQUIRED FOR COMMERCIAL SERVICES LARGER THAN 200 AMPS.
3. FOR CT'S LOCATED INSIDE A BUILDING REFER TO THE NEC REGARDING LOCATION OF THE CABINET.



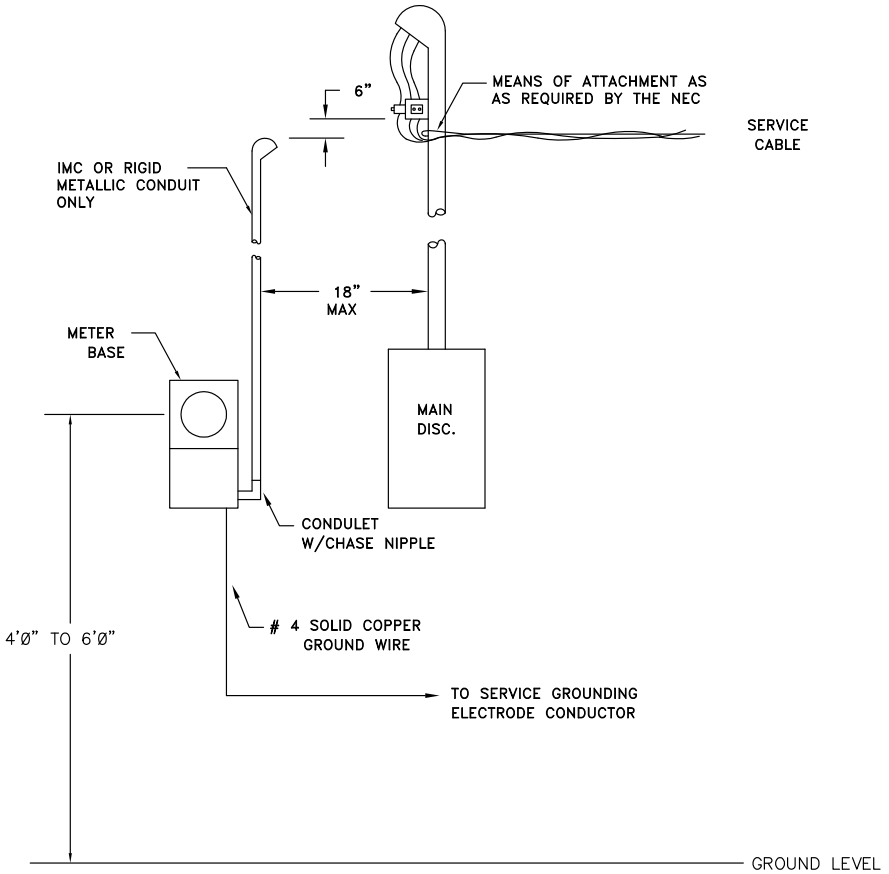
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Orlando Utilities Commission

2	4-22-08	ADDED NOTE 3	R.T.				
1	3-25-96	ADDED TEXT		Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JORDAN			09-11-97



M8

OVERHEAD SERVICE ENTRANCE LARGER THAN 200 AMPS (CT REQUIRED) WITH MAST CT'S

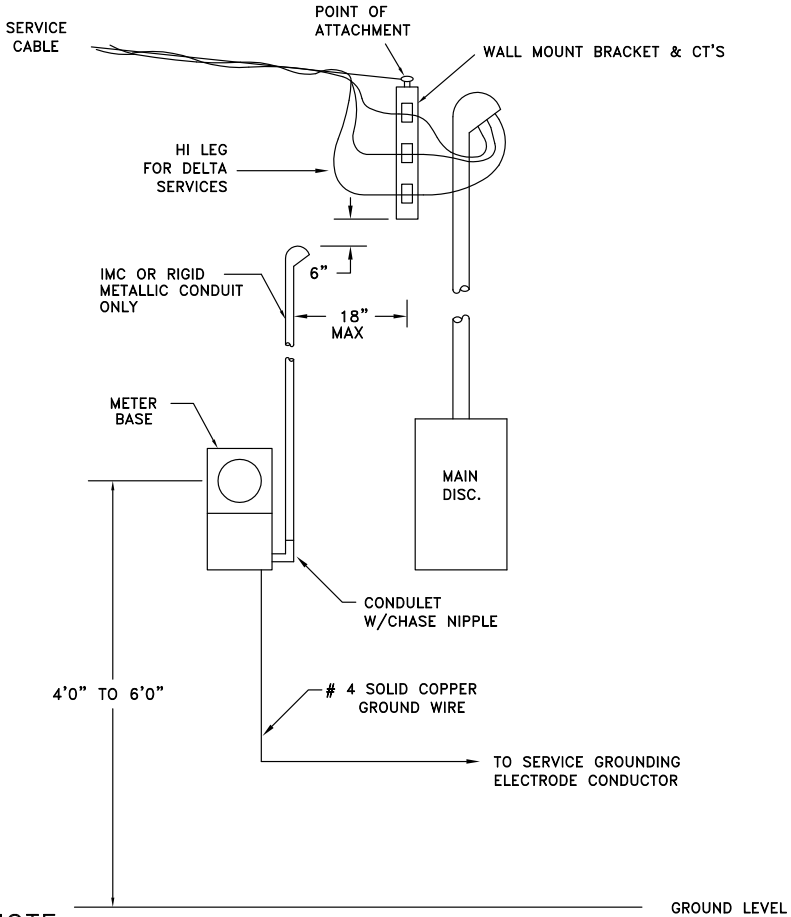


NOTE:

1. CT'S REQUIRED FOR COMMERCIAL SERVICES LARGER THAN 200 AMPS.

				<b>ouc</b> The Reliable One™		METERING STANDARDS OH & UG Distribution System Orlando Utilities Commission	
2	4-22-08	ADDED NOTE NEC	RT	Drawn by	Checked by	Approved by	Date
1	09-11-97	Added Note	RLF	JORDAN			8-26-92
No.	Date	Revision	Ck.				

OVERHEAD SERVICE ENTRANCE LARGER THAN 200 AMPS (CT REQUIRED) WITH WALLMOUNT CT'S



NOTE:

- 1. CT'S REQUIRED FOR COMMERCIAL SERVICES LARGER THAN 200 AMPS.

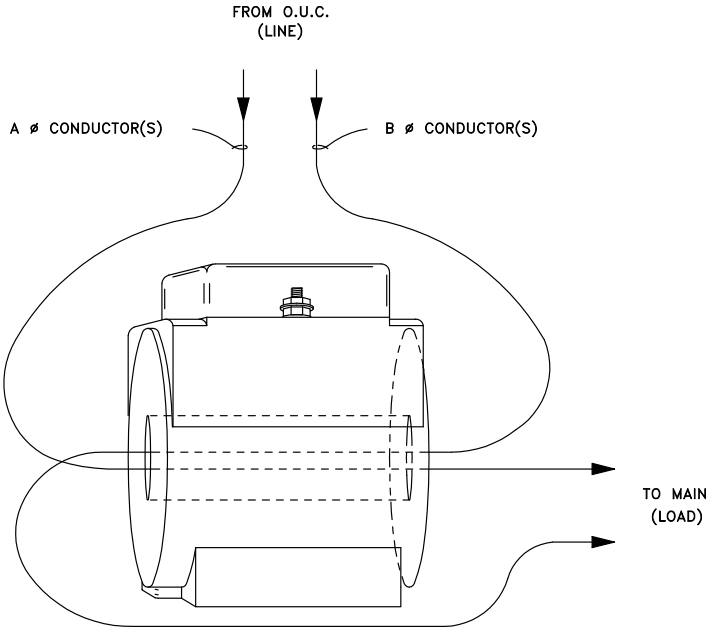


METERING STANDARDS  
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No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
1	09-11-97	Added Note	RLF	JORDAN			8-26-92

SINGLE PHASE CT WIRING DIAGRAM  
DELTA CONFIGURATION

M11



NOTE: ALL SIMILAR PHASE CONDUCTORS SHOULD GO THROUGH  
THE CT IN THE SAME DIRECTION  
SEE PAGES M7 - M10 FOR MOUNTING SPECIFICATIONS



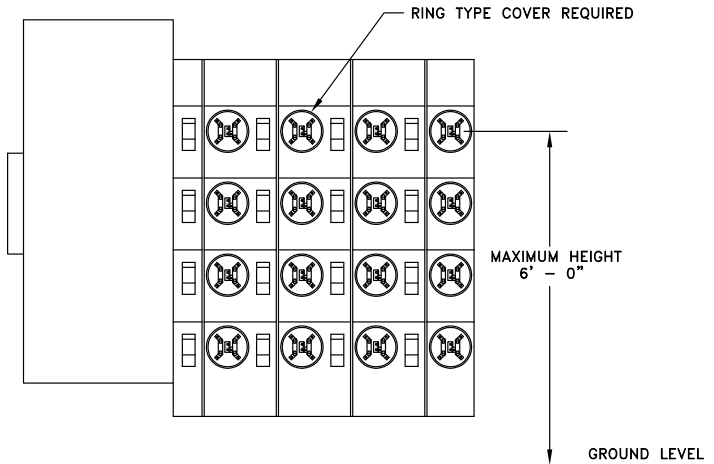
METERING STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN			8-26-92

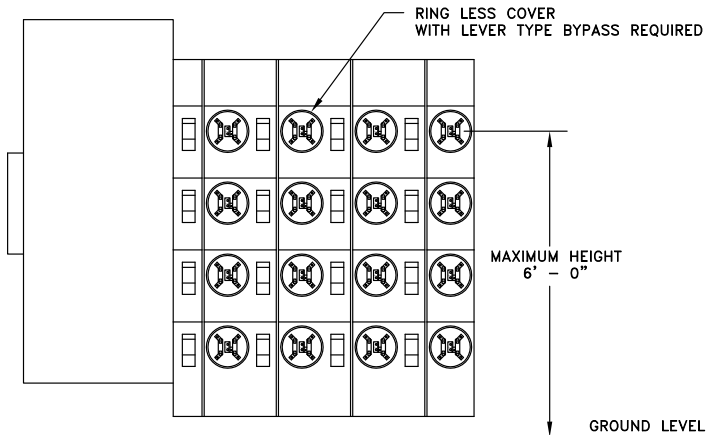
MULTIPLE POSITION (GANGED) METER CENTERS

M14

RESIDENTIAL/APARTMENT/TOWN HOME



COMMERCIAL



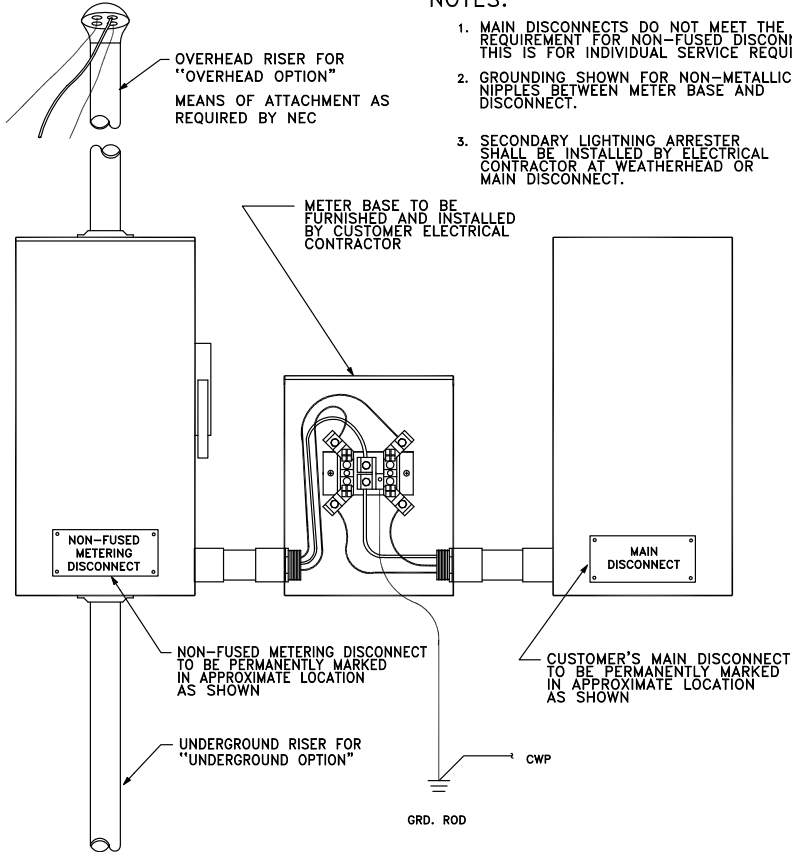
METERING STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

Drawn by	Checked by	Approved by	Date
JORDAN			09-18-06

No.	Date	Revision	Ck.

DETAIL FOR SINGLE-PHASE 240/480V SERVICES 200A OR LESS, (SELF-CONTAINED METERING)

M12




NOTES:

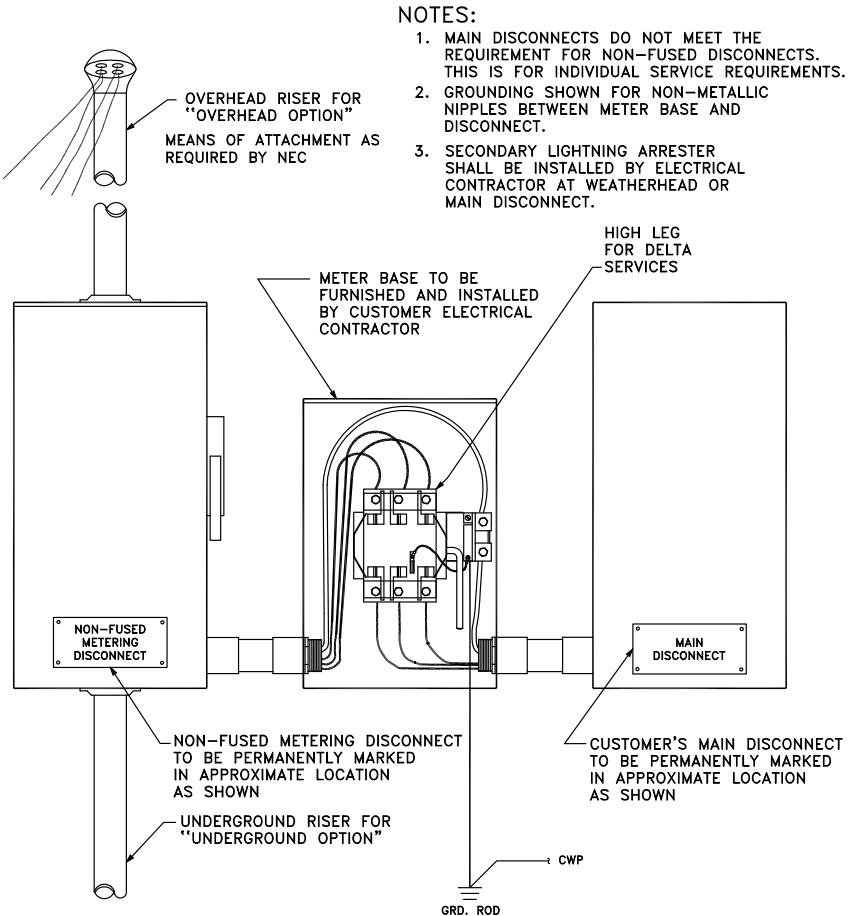
1. MAIN DISCONNECTS DO NOT MEET THE REQUIREMENT FOR NON-FUSED DISCONNECTS. THIS IS FOR INDIVIDUAL SERVICE REQUIREMENTS.
2. GROUNDING SHOWN FOR NON-METALLIC NIPPLES BETWEEN METER BASE AND DISCONNECT.
3. SECONDARY LIGHTNING ARRESTER SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR AT WEATHERHEAD OR MAIN DISCONNECT.

\* COMMERCIAL SERVICE SHALL HAVE LEVER BYPASS  
 DO NOT WIRE THRU BACK OF SOCKET  
 USE PROVIDED KNOCKOUTS ONLY  
 DO NOT RECESS

3	04-22-08	ADDED NEC NOTE	R.T.
2	09-11-97	Added & Changed Note	RLF
1	8-6-92	CHANGED 480V TO 240/480V	
No.	Date	Revision	Ck.

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	Drawn by JORDAN	Checked by	Approved by

DETAIL FOR THREE-PHASE 480V SERVICES  
200A OR LESS, (SELF-CONTAINED METERING)



NOTES:

1. MAIN DISCONNECTS DO NOT MEET THE REQUIREMENT FOR NON-FUSED DISCONNECTS. THIS IS FOR INDIVIDUAL SERVICE REQUIREMENTS.
2. GROUNDING SHOWN FOR NON-METALLIC NIPPLES BETWEEN METER BASE AND DISCONNECT.
3. SECONDARY LIGHTNING ARRESTER SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR AT WEATHERHEAD OR MAIN DISCONNECT.

\* COMMERCIAL SERVICES SHALL HAVE LEVER BYPASS  
DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS

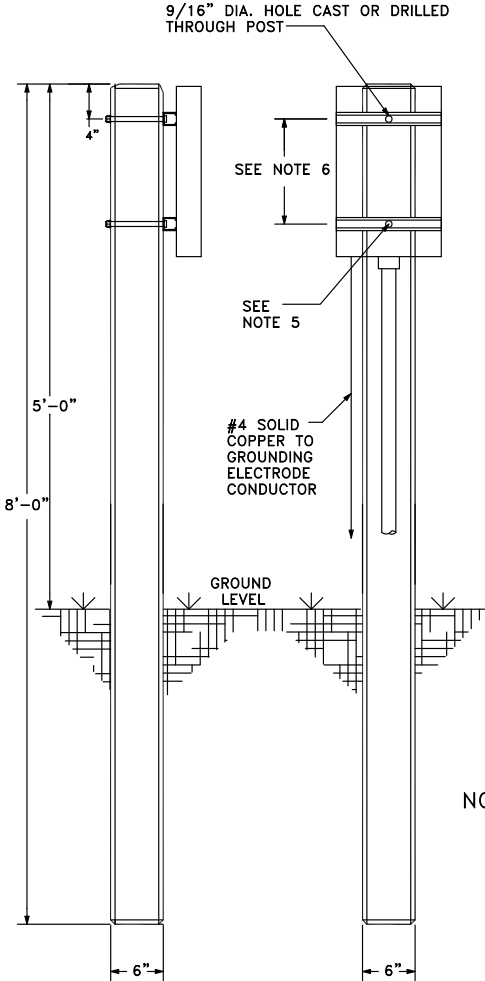


METERING STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

2	04-22-08	ADDED NOTE NEC	R.T.				
1	09-11-97	Added & Changed Notes	RLF	Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JORDAN			3-25-92

S2

**CONCRETE METER POST**  
6" X 6" X 8'



**NOTES:**

1. USE MIN. 4500 P.S.I. CONCRETE REINFORCED WITH FOUR (4) #4 REBARS SPACED IN A 4" X 4" SQUARE CENTERED IN THE POST.
2. ALL EDGES TO HAVE 1/2" CHAMFER.
3. TOP HOLE WILL BE 7/16" CAST OR DRILLED THROUGH POST 4" FROM END.
4. MOUNT METER BASE ON 1" X 1/2" KINDORF CHANNEL OR EQUAL. DO NOT DRILL OR PUNCH HOLES IN METER BASE. USE PROVIDED KNOCKOUTS.
5. MOUNT KINDORF CHANNEL USING 1/2" BOLT THROUGH POST OR LEAD ANCHOR AND BOLT. DO NOT USE POWER GUN TO SHOOT FASTENERS INTO POST. DO NOT USE PLASTIC ANCHORS.
6. DIMENSION TO MATCH MOUNTING BOLTS IN METER BASE.
7. KINDORF CHANNEL IS NOT TO EXTEND PAST SIDED OF METER BASE.
8. WHEN MANUFACTURING POST, SECOND MOUNTING HOLE AND KINDORF CHANNEL INFORMATION DOES NOT APPLY.

**NOTES:**

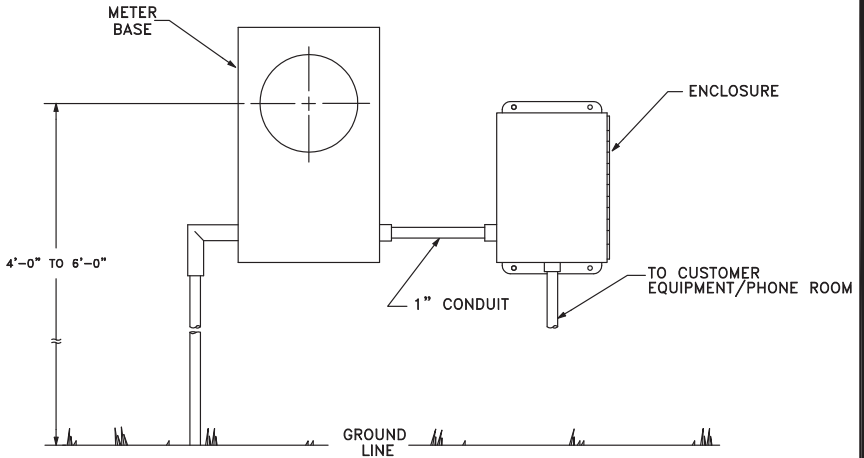
1. MAIN DISCONNECTS DO NOT MEET THE REQUIREMENT FOR NON-FUSED DISCONNECTS. THIS IS FOR INDIVIDUAL SERVICE REQUIREMENTS.



**CONSTRUCTION STANDARDS**  
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2	09-12-97	Add Meter Base	RLF	Drawn by	Checked by	Approved by	Date
1	3-09-94	CHANGED TITLE AND ADDED NOTE 8		JORDAN			10-2-91
No.	Date	Revision	Ck.				

PULSE/PHONE METER APPLICATION



NOTES:

1. 8" x 8" x 6" ENCLOSURE (EQUIVALENT TO HOFFMAN A-8R86HCLO) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR.
2. ALL METERING CONDUITS SUPPLIED AND INSTALLED BY CONTRACTOR.
3. IF THE CUSTOMER PLANS ON HAVING AN ENERGY MANAGEMENT SYSTEM WHICH UTILIZES METER OUTPUT PULSES, THEY MUST REQUEST PULSE METER(S) FROM O.U.C.

TO APPLY FOR SPECIAL METERING EQUIPMENT AND INFORMATION ON ASSOCIATED CHARGES CONTACT:

Irvin Lane II  
 ORLANDO UTILITIES COMMISSION  
 P. O. BOX 3193  
 ORLANDO, FL 32802  
 (407) 434-4066  
 Fax (407) 434-4324

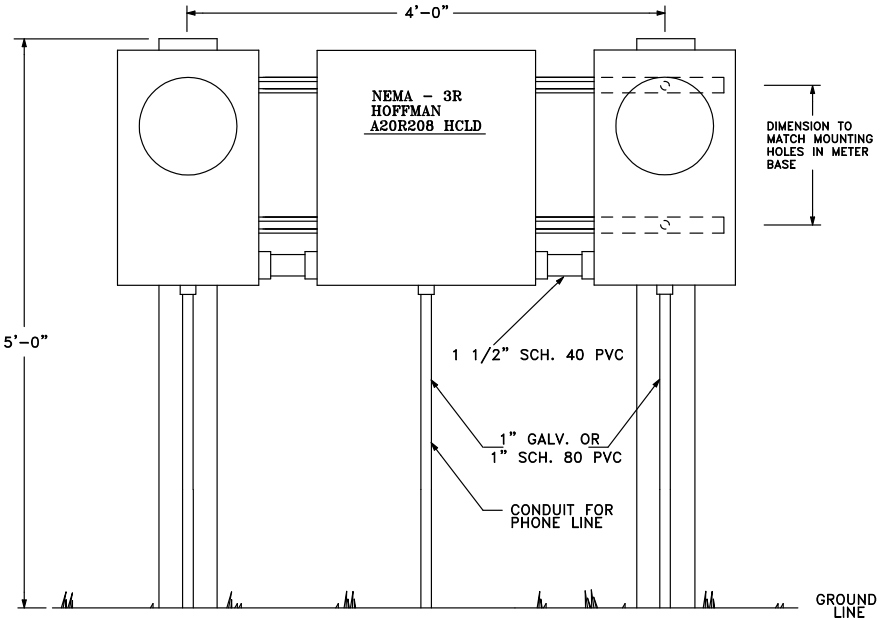
**OUC**  CONSTRUCTION STANDARDS  
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No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
1	09-12-97	Changed Various Text Sizes	RLF	JORDAN			2-14-94



S5

TWO METER RECORDER INSTALLATION



CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL:

- 1.) TWO 6"x6"x8' CONCRETE METER POSTS
- 2.) OUC SUPPLIED METERING EQUIPMENT ON 1 1/2" X 1 1/2" KINDORF CHANNEL
- 3.) CHANNEL USING 1/2" BOLTS THROUGH POST OR LEAD ANCHORS AND BOLTS.
- 4.) HOFFMAN CAT.#A20R208 HCLD NEMA 3R ENCLOSURE ON SAME KINDORF CHANNEL
- 5.) ALL CONDUITS.
- 6.) PHONE LINE INTO HOFFMAN ENCLOSURE. (RJ11 OR BETTER)

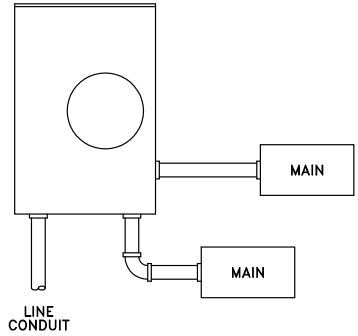
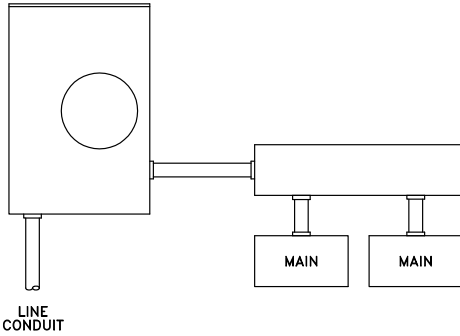
\* EQUIPMENT MAY BE MOUNTED ON AN ADJACENT WALL IN LIEU OF METER POSTS  
 DO NO WIRE THRU BACK OF SOCKET  
 USE PROVIDED KNOCKOUTS ONLY

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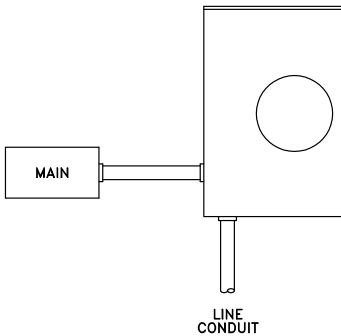
No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN			09-12-97

M16

OUC  
METER BASE  
CONFIGURATION



ACCEPTABLE CONFIGURATION



UNACCEPTABLE CONFIGURATION

NOTES:

1. THE LOWER LEFT PORTION OF THE METER SOCKET IS RESERVED FOR USE BY THE COMPANY ON UNDERGROUND SERVICES.

\* DO NOT WIRE THRU BACK OF SOCKET  
USE PROVIDED KNOCKOUTS ONLY  
DO NOT RECESS



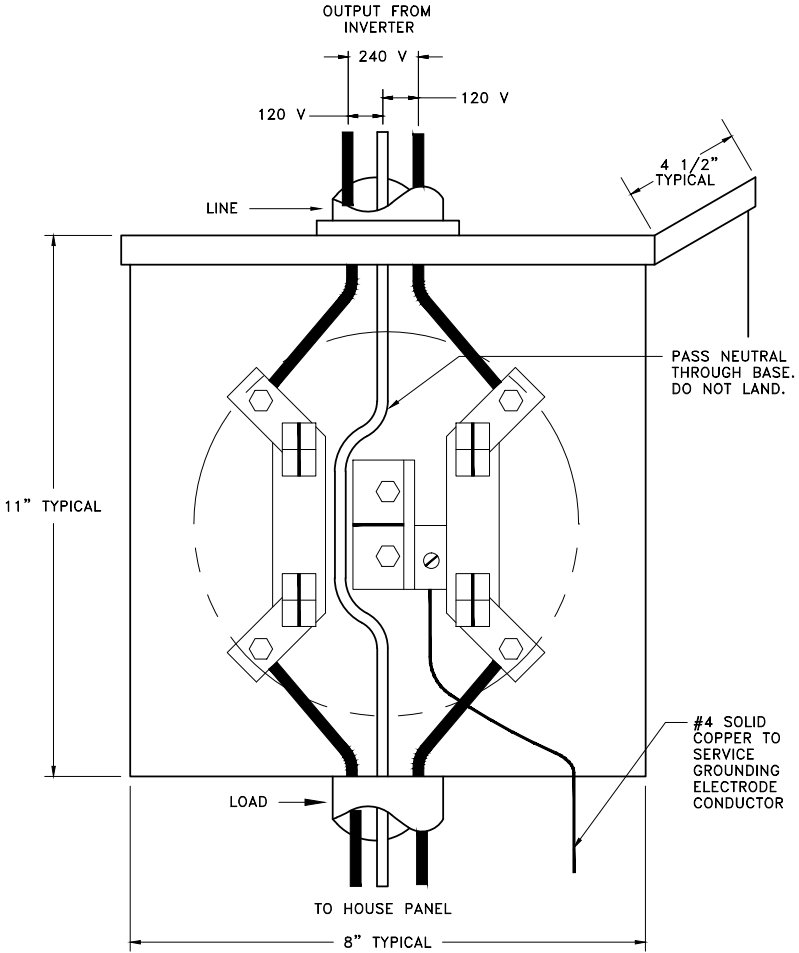
METERING STANDARDS  
OH & UG Distribution System  
Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by	Checked by	Approved by	Date
				JORDAN			07-23-08

M17

PV PRODUCTION APPLICATION 120/240V SINGLE PHASE  
 125A 3 WIRE METER SOCKET FOR RENEWABLE ENERGY CREDITS

CAD: #MTRSHOP/M2



\* DO NOT WIRE THRU BACK OF SOCKET  
 USE PROVIDED KNOCKOUTS ONLY  
 DO NOT RECESS



METERING STANDARDS  
 OH & UG Distribution System  
 Orlando Utilities Commission

No.	Date	Revision	Ck.	Drawn by RDL	Checked by	Approved by	Date 5-20-10
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ORLANDO UTILITIES COMMISSION  
Reliable Plaza  
100 West Anderson Street  
Orlando, Florida 32802