Horry Electric Cooperative, Inc.

A Touchstone Energy® Cooperative

Meter Installation and Specification Handbook
Revision History

Version 1     Spring 2016
  • Original Document Release

Version 1.1   Summer 2016
  • Corrected issue with spacing at top of overhead temporary drawings
  • Corrected errors in numbered bullets in all drawings
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SECTION 1  GENERAL INFORMATION

1. This booklet is issued by Horry Electric Cooperative, Inc. (HEC) as a guide for obtaining and installing electric service. It contains information on the types of electric service available, conditions for service, the standards for material and construction in regards to the Member’s service entrance installation.

The standards herein are supplementary to and are not intended to conflict with any applicable City, County or Community Ordinances, The National Electric Safety Code or the National Electrical Code.

HEC welcomes feedback on any information located in this booklet. Any questions or concerns may be directed to HEC employees at 843-369-2211.

1.1 The term “Member” when used herein shall mean any person or company applying for, receiving, using or agreeing to take electric service from HEC.

1.2 All code requirements should be the most recent requirements set forth in the National Electric Safety Code (NESC) or the National Electrical Code (NEC).

SECTION 2  ELECTRICAL SAFETY AND CODE CLEARANCES

2. It is the policy of HEC to operate the Electric Distribution System with the highest degree of care and safety for the public and employees. To ensure the care and safety needed for an Electric Distribution System, the NESC is used for design, construction, maintenance and operation of the Electric Distribution System by HEC.

2.1 HEC shall reserve the right to deny and/or terminate service without prior notice when a hazardous condition exists.

2.2 Drawings contained in this booklet serve as a guide to commonly used information and are not meant to contain all information or be applicable in all situations. The current edition of NESC and/or NEC should be consulted for further details.

SECTION 3  METERING

3. Available service voltage
   A. Single phase 2 wire 120 V
   B. Single phase 3 wire 120/240 V
   C. Single phase 3 wire 120/208 V Network
   D. Single phase 3 wire 240/480 V
      a. All installations will require an instrument rated meter
   E. Three phase 4 wire 120/240 V Delta
   F. Three phase 4 wire 120/208 V Wye
   G. Three phase 4 wire 277/480 V Wye

3.1 All meters, service drops, and other electrical facilities installed by HEC at its expense upon the Member’s premises for the purpose of delivering and measuring the electric energy to the Member shall continue to be the property of HEC.

3.2 The Member shall maintain, without cost to HEC, sufficient and proper
facilities for the installation of meters and other apparatus at an easily accessible location on or within the premises to be supplied with service, and in accordance with the rules contained herein.

The following details are to be used in conjunction with the drawings.

A. Above ground conduit on the supply side of the meter shall be 2” schedule 80 PVC, minimum. Galvanized rigid conduit, 2” minimum, is required if the overhead service drop requires physical attachment to the mast. Accessible fittings such as LB’s are not permitted.

B. Where HEC must attach its overhead service wires to a building or other structure, the Member shall provide an attachment device designed for the particular surface and of adequate strength (IE lag, anchor, or other bolt) to support the service wires.

C. All conductors must extend beyond the weather head a minimum of 24”.

D. An overhead service mast must not be enclosed or otherwise concealed at any point other than where it passes through the roof opening.

E. Service conductors shall be sized according to NEC.

F. Neutral conductors shall be identified white or natural grey, per NEC.

G. The high-leg of a three phase 120/240 V or 240/480 V service shall be identified as orange, per NEC.

H. The grounding electrode conductor, or service ground, must run continuously from the grounding electrode, or ground rod, to the ground lugs within the meter base. If necessary, an additional ground lug is supplied for continuing the ground to a disconnect.

I. A service disconnect is required for each socket location at the initial installation of any multi-gang meter socket.

3.3 Emergency Generators

When an emergency generator is used by the Member, it shall be installed in such manner as to eliminate the possibility of operating in parallel with, or back-feeding into HEC’s electrical system.

SECTION 4 METER LOCATIONS AND CLEARANCES

4. The locations of meters and metering equipment shall be designated by HEC where they will be readily accessible at all reasonable hours for reading, testing, inspecting and other maintenance purposes. No wiring dependent upon the meter location
should be started until the location has been assigned.

A. Meter sockets shall be plumb and securely fastened to the building wall or structure.

B. Meter sockets shall be installed four to six feet (4’ – 6’) above finished grade to the center of the meter.

C. A minimum of three feet (3’) of clear space must be maintained in front of the meter for safe access.

D. Electric meters shall be located at least three feet (3’) horizontally from gas meters and a minimum of (10’) from a propane tank of any size.

E. Meters shall not be installed where they will interfere with traffic, sidewalks, drive ways, or where they will obstruct the opening of doors or windows, or in any location which may be considered hazardous or cause damage to the metering equipment.

F. Indoor meter installations are not permitted without prior approval from HEC. It may be permitted only when there is a designated room used solely for the purpose of metering and accessible only to qualified personnel.

G. Where service is supplied to individual Members, within a building designed for multiple occupancy, the individual meters shall be grouped at a point nearest the service drop attachment or service lateral origin on the exterior of the building at a point designated by HEC.

SECTION 5 METER SOCKETS

5. Meter sockets may be purchased from HEC or other supply houses as long as they are on the attached HEC Approved Meter Base List.

5.1 MAINTENANCE AND REPAIR OF METER SOCKETS
With all meter sockets, whether provided by HEC or purchased independently, the maintenance and repair of the meter socket(s) is the sole responsibility of the Member and will require the services of a qualified electrician. HEC must be contacted for the temporary interruption of electric service while repairs are being made. Same day requests will require a same day fee.

5.2 BONDING METER SOCKETS
Service equipment and enclosures could be called on to carry fault currents in the event of a ground fault. For this reason, it is imperative that meter sockets and metal conduits be adequately bonded to neutral and to ground. All bonding shall be done according to the latest edition of the NEC.

5.3 METER SOCKET WIRING
Members shall wire all self-contained meter sockets in accordance with the
5.4 CURRENT TRANSFORMER (CT) METERING
A determination will be made by HEC employees on the necessity of a CT application.

5.5 CT’s INSTALLATIONS
When member load warrants a CT application, the CT’s shall be installed in the secondary compartment of the transformer. In this situation, the member shall provide and install the secondary cable to the secondary compartment of the transformer. A maximum of 16 conductors per phase is allowed in the secondary compartment. Installations requiring more than 8 conductors per phase need prior approval from HEC.

5.6 CT CABINETS
CT cabinets will be furnished by HEC and will be padlocked and sealed by HEC.

5.7 DETACHED (SELF-SUPPORTING) METER MOUNTING
A. Meter sockets may be mounted on separate self-supporting structures, such as for temporary construction services, and on mobile/modular homes, in accordance with the drawings included in this document. For mobile/modular homes or other overhead residential services, utility grade poles are preferred, or treated 4” x 6” posts set a minimum of 36” deep.

B. Where the service is to be overhead, the post or pole shall be of sufficient height for NEC clearance and adequately braced in the direction of the service drop.

C. If two or more sockets are to be mounted, two posts shall be used with cross members of treated 2” x 6” lumber, 1 ¼” decking board or ¾” marine grade plywood, minimum. Cross members shall be spaced appropriately to attach meter sockets and conduit straps.

5.8 MOVING/REMOVING METERS
The member shall not tamper or otherwise interfere with the proper operation of HEC meters or other equipment, or in any way interfere with the proper meter registration of the electric energy used. These are criminal offenses punishable by law. Only authorized HEC employees are permitted to connect, disconnect, move, or remove the meter and/or meter seal.

5.9 MARKING METER SOCKETS
Changes to internal numbering or lettering schemes and incorrect marking of units can cause inaccurate billing of HEC members. When a situation exists, the owner of such premises shall be responsible for correcting the situation as well as payment of any time and material charges HEC may incur during the process of correcting the problem.
In multiple meter installations, meters **will not** be installed until all sockets are permanently and accurately marked.

SECTION 6  MULTI-GANG SERVICES FOR RESIDENTIAL & COMMERCIAL ACCOUNTS

6.1 All job requests must be accompanied by a drawing showing the building layout with the numbering scheme for each floor. A copy will remain on file to be attached to the service order for permanent power. In order to prevent a delay in service connection, this drawing must be an exact match of the actual project.

6.2 A licensed and bonded electrician with complete knowledge of the job must be on site at the time of connection. Strong verbal skills in the English language are a necessity.

6.3 All appointments are scheduled by HEC’s System Control Supervisor or their designee. A 30 minute window will be allowed. After that period of time, a $200 trip charge will be imposed and must be paid before another appointment can be scheduled.

6.4 HEC must be provided access to meters at all times. If the meters are going to be located in locked meter rooms, a master key must be provided at the time service is connected.

6.5 Meters must be verified individually at the time of installation. The person installing the meter is responsible for verification of each meter and its association with the appropriate panel and unit. This must be done through direct communications between the installer and an individual physically located in the corresponding unit.

6.6 Only meters for units certified for occupancy will be verified in meter centers. As certificates of occupancy are issued for subsequent units, the Cooperative will impose a $200 trip charge for each additional trip required to verify additional meters in a meter center. The charge will be waived if the request is made by an individual or entity other than the original requestor and it will be treated as a first time trip. All subsequent trips requested by that individual/entity will incur the $200 trip charge.

6.7 Meter bases and covers will be permanently and legibly marked with non-transferable, UV resistant, 1” high labels. The individual unit to which each meter is assigned must also be permanently and clearly marked at the entrance to the unit.

6.8 Meter testing will be conducted on an individual basis. Pulling and testing multiple meters at the same time is strictly prohibited.

6.8 All multi-gang installations, residential or commercial, must be locked at all times. A meter pulled by owner or an electrician without consent from HEC is prohibited. If two or more meter seals are found to have been removed, cut or broken, this will result in a report filed by HEC and/or will require verification for the entire building.
SECTION 7  VOLTAGE STANDARDS AND SERVICE LIMITATIONS

7.1 Electric service is limited to electric energy supply and distribution facilities available at the time of construction. Available secondary service voltage classifications will depend upon a member’s location and proximity to existing facilities within and overhead or underground service area.

7.2 It is not permissible to install fences or heavy landscaping, i.e., permanent structures, large shrubbery, trees, etc., on easements or rights-of-way. In the event an obstruction exists, at the discretion of HEC, the obstruction may be removed immediately or arrangements made to have it removed by the member.

SECTION 8  SYSTEM ALTERATION AND CONVERSION

8.1 All relocations of existing overhead and underground lines and equipment shall be accomplished at the expense of the member initiating the request on a time and material billing basis. The member shall be required to provide all necessary easements and rights-of-way without cost to HEC.

8.2 Requirements for work performed on time and material basis.

All work performed on a time and material contract shall first be estimated, taking into consideration any contribution-in-aid. The full amount of the estimate shall be paid to HEC prior to the scheduling of work to be performed. The member requesting the conversion shall be responsible for the actual cost of the work and shall be either billed for any additional costs incurred over and above the estimate, or shall be reimbursed the difference between the estimate and the actual cost, whichever may be applicable.

Section 9  SOLAR METER INSTALLATIONS

9.1 Refer to HEC Energy Management or HEC Engineering departments for specifics on solar installations.
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<tr>
<td>11785</td>
<td>135 AMP 1PH OH METER BASE WITH 2&quot; HUB</td>
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<td>11787</td>
<td>200 AMP 1PH OH METER BASE WITH 2&quot; HUB</td>
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<td>200 AMP 1PH UG BASE STUDS ON LOAD &amp; SMALL PLATE</td>
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<tr>
<td>11789</td>
<td>200 AMP 1 PH OH BASE WITH STUDS ON LOAD &amp; 2&quot; HUB</td>
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<td>350 MCM 2-HOLE CONNECTOR</td>
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All meter bases connected to the Horry Electric Cooperative system must meet certain specifications in order for power to be connected. This price list is for the established standard meter base and accessories stocked by Horry Electric Cooperative. A separate list of manufacturers and models determined to be acceptable is available. Please visit [www.horryelectric.com](http://www.horryelectric.com) for the most up-to-date price list.
Approved Manufacturers and Models

All meter bases connected to the Horry Electric Cooperative system must meet certain specifications in order for power to be connected.  

Effective August 2015

1 Phase Meter Sockets

125 amp, with lay-in type lugs:
- Culter Hammer/Eaton - UTRS111BCH / UTRS101BCH
- Milbank - U7487-RL-QG-C
- Siemens/L&G - UAT 111-0JCA
- Durham/Square D - N/A

200 amp, with lay-in type lugs:
- Culter Hammer/Eaton - U92197CCCPLCH
- Milbank - U1980
- Siemens/L&G - UAS 917-XJCA
- Durham/Square D - N/A

200 amp, with lay-in type lugs on line side, 3/8” studs on load side lugs:
- Culter Hammer/Eaton - N/A
- Milbank - N/A
- Siemens/L&G - 917-OG
- Durham/Square D - N/A

400 amp Bolt-in, type K-4, with ½” studs on line and load side:
- Culter Hammer/Eaton - CH8416K4
- Milbank - S4664-X-8416
- Siemens/L&G - 9809-8416
- Durham/Square D - N/A

320 amp, with lever bypass, 3/8” studs on line and load side:
- Culter Hammer/Eaton - UTH4300UCH / UTH4300TCH
- Milbank - U-1129-RXL / U5740-X-K3L-K2L-CAPL
- Siemens/L&G - 4760U4-82
- Durham/Square D - T-H 4300U

Notes:
U in front of Durham part # puts a UL sticker on the base
Red text are bases we are currently using
Please visit www.horreyelectric.com for the most up-to-date list
1 Phase Gang Sockets

2 position, with lay-in type lugs, 200amps/position, 200 amps overall ampacity
Culter Hammer/Eaton - UT2R2332TCH
Milbank - U1252-X-K1-CAPL
Siemens/L&G - UA2717-YJCA
Durham/Square D - T-2R2332U

3 position, with lay-in type lugs, 200 amps/position, 270 amps overall ampacity
Culter Hammer/Eaton - UT3R2332TCH
Milbank - U1253-X-K1-CAPL
Siemens/L&G - UA3717-YJCA
Durham/Square D - T-3R2332U

4 position, with lay-in type lugs, 200 amps/position, 360 amps overall ampacity
Culter Hammer/Eaton - UT4R2352TCH
Milbank - U1254-X-K1-CAPL
Siemens/L&G - UA 4719-YJCA
Durham/Square D - T-4R2352U

5 position, with lay-in type lugs, 200 amps/position, 450 amps overall ampacity
Culter Hammer/Eaton - UT5R2392TTCH
Milbank - U1255-X-K1-CAPL
Siemens/L&G - UA5719-KJCA
Durham/Square D - T-5R2392U

6 position, with lay-in type lugs, 200 amps/position, 528 amps overall ampacity
Culter Hammer/Eaton - UT6R2392TTCH
Milbank - U1256-X-K1-CAPL
Siemens/L&G - UA6719-KJCA
Durham/Square D - T-6R2392U

Notes:
U in front of Durham part # puts a UL sticker on the base
Red text are bases we are currently using
Please visit horryelectric.com for the most up-to-date list
3 Phase Meter Sockets

200 amp, with lever bypass, lay-in type lugs on line & load side:
- Culter Hammer/Eaton - UTH7213TCH/ UTH7213UCH
- Milbank - U 7423-RXL / U4701-RXL
- Siemens/L&G - 40407-025
- Durham/Square D - T-H 7213V

200 amp, with lever bypass, 3/8” studs on line & load side:
- Culter Hammer/Eaton - UTH7210UCH
- Milbank - U 9761-RRL
- Siemens/L&G - 47607-01FL
- Durham/Square D - UT-H7230Z

320 amp, with lever bypass, 3/8” studs on line & load side:
- Culter Hammer/Eaton - UTH7330UCH
- Milbank - U 2120-X
- Siemens/L&G - 47407-02
- Durham/Square D - T-H 7330U

480 amp bolt-in, type K-7T, with ½ ” studs on line and load side:
- Culter Hammer/Eaton - CH9504K7
- Milbank - UA4667-XT-9504
- Siemens/L&G - 9817-9504
- Durham/Square D - N/A

Notes:
- U in front of Durham part # puts a UL sticker on the base
- Red text are bases we are currently using
- Please visit www.horryelectric.com for the most up-to-date list
NOTES:

1. THIS LEG IS REQUIRED BY THE NATIONAL ELECTRIC CODE TO BE IDENTIFIED ORANGE AND IN THE CENTER TERMINAL POSITION IN ALL OTHER ENCLOSURES, IE. SWITCHGEAR, MAIN PANELS, ETC. (NEC 408.2(E))

2. SINGLE PHASE 3 WIRE 240/480 V SERVICE INSTALLATIONS WILL REQUIRE AN INSTRUMENT RATED METER.

HORRY ELECTRIC COOPERATIVE, INC.

TYPICAL METER SOCKET CONNECTIONS

REVISED
AUG 2016
- Only a Horry Electric Meter Base or a meter base from Horry Electric approved List. Horry Electric will Not accept a Santee Cooper or a unilbase.

- Horry Electric will NOT allow a Main Disconnect to be mounted on the source side of the meter base. (Mount the main Disconnect on the same side as the meter socket.)

- If there is a need for 2 Disconnects Horry Electric will require you to use a 320 Amp Meter Base (see approved list).

- All services must have a stub-down conduit. Do NOT use the knockout hole under the meter socket. Stub-down must be at least a 2” conduit (may need a larger stub-down conduit if Horry Electric requires it.)

- All stub-downs MUST have at least one Conduit Strap (TWO HOLE) installed prior to scheduling the work to be done.

- All services MUST have their own independent ground rod. This ground rod MUST be within 2’ of the service.

- Grounding conductor MUST come directly out of the meter base straight down to the grounding rod. This grounding conductor MUST be in conduit. (Refer to NEC for size)

*Note: This Handout Is only intended to Supplement the Horry Electric Specifications Book.

HORRY ELECTRIC COOPERATIVE, INC.

METER BASE CHECKLIST

REVISED

AUG 2016
- Only a Horry Electric Meter Base or a meter base from Horry Electric approved List. Horry Electric will Not accept a Santee Cooper base.

- The top meter socket will not exceed 72” max height from finished grade. If the height will exceed 72” then a permanent concrete platform will be required to meet the 72” requirement before any meter can be installed.

- All removable lids must have locking tabs installed.

- All meter sockets must be labeled to match the address on the front door of the unit.

- The member will be responsible for supplying the pipe and wire for all services with 7 or more meters.

- All stub-downs MUST be installed prior to scheduling the work to be done.

- All services MUST have their own independent ground rod. This ground rod MUST be within 2’ of the service.

- Grounding conductor MUST come directly out of the main disconnect straight down to the grounding rod. This grounding conductor MUST be Copper and in conduit.

*Note: This Handout is only Intended to Supplement the Horry Electric Meter Specification Book.
NOTES:
1. HORRY ELECTRIC WILL REQUIRE A CT METER FOR ANY SERVICE OVER 400 AMPS OR 75 KVA AND UP.
2. THE MEMBER WILL SUPPLY WIRE AND CONDUIT TO ALL 1 PHASE SERVICES REQUIRING A CT METER.
3. THE MEMBER WILL SUPPLY WIRE AND CONDUIT TO ALL 3 PHASE COMMERCIAL INSTALLATIONS.
4. IF A CT METER IS REQUIRED, HORRY ELECTRIC WILL REQUIRE A MAIN DISCONNECT ON THE OUTSIDE OF THE BUILDING BEING SERVED.
5. A SHUNT TRIP BREAKER WILL BE ALLOWED PENDING APPROVAL FROM HEC.
6. IF THE SERVICE REQUIRES A 500 KVA OR LARGER, THE MEMBER WILL BE RESPONSIBLE FOR THE INSTALLATION AND COST OF THE CONCRETE TRANSFORMER PAD. BUILT TO HEC's SPECIFICATIONS. SEE 3 PHASE PAD DRAWINGS.
7. ANY EXCEPTIONS TO THE REQUIREMENTS LISTED ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORRY ELECTRIC COOPERATIVE, INC.
REQUIRED GROUND CLEARANCE FOR CABLE IS 16'. THIS MAY BE REDUCED TO 12' FOR PEDESTRIAN AND RESTRICTED TRAFFIC ONLY (SEE NESC TABLE 232-1)

ADEQUATELY BRACE SERVICE POLE TO SUPPORT SERVICE MAN ON LADDER AND SERVICE DROP CABLE

NOTE: METER SOCKET LOCATION ON PROPERTY TO BE SPOTTED BY HORRY ELECTRIC PERSONNEL

MATERIALS:
1. GROUND ROD, MUST BE WITHIN 2' AND BURIED BELOW FINISHED GRADE (REFER TO NEC FOR SIZE).
2. AN INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP. UL APPROVED
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT. (REFER TO NEC FOR SIZE)
5. OVERCURRENT DEVICE APPROVED FOR LOCATION.
6. RECEPTACLES APPROVED FOR LOCATION. GFCI PROTECTION PER NEC.
7. SERVICE MAST. PVC. SCHEDULE 80 (PER LOCAL JURISDICTION).
8. "IF SERVICE CONDUCTOR IS ATTACHED TO SERVICE MAST, RIGID CONDUIT IS REQUIRED AND MUST BE PROPERLY ATTACHED ACCORDING TO NEC.
9. POST, TREATED 4" X 4" OF SUFFICIENT HEIGHT FOR NEC GROUND CLEARANCE.

NOTES:
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROSIVE. 2 HOLE STRAPS ARE REQUIRED FOR ALL CONDUIT.
C. ANY EXCEPTIONS TO THE ABOVE MUST HAVE HORRY ELECTRIC APPROVAL.

HORRY ELECTRIC COOPERATIVE, INC.

TEMPORARY O.H. SERVICE INSTALLATION

REVISED

AUG 2016
NOTE:
METER SOCKET LOCATION ON PROPERTY TO BE SPOTTED BY HORY ELECTRIC PERSONNEL

ADEQUATELY BRACE SERVICE POLE TO SUPPORT SERVICE MAN ON LADDER AND SERVICE DROP CABLE

REQUIRED GROUND CLEARANCE FOR CABLE IS 18', THIS MAY BE REDUCED TO 12' FOR PEDESTRIAN AND RESTRICTED TRAFFIC ONLY (SEE NESC TABLE 232-1)

4" MIN. TO 6" MAX. TO CENTER OF METER SOCKET

HEC'S UNDERGROUND SERVICE WIRE WITH PIPE

MATERIALS:
1. GROUND ROD, MUST BE WITHIN 2' AND BURIED BELOW FINISHED GRADE (REFER TO NEC FOR SIZE).
2. AN INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP, UL APPROVED
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT. (REFER TO NEC FOR SIZE)
5. OVERCURRENT DEVICE APPROVED FOR LOCATION.
6. RECEPTACLES APPROVED FOR LOCATION, GFCI PROTECTION PER NEC.
7. SERVICE MAST, PVC, SCHEDULE 80 (PER LOCAL JURISDICTION).
   *IF SERVICE CONDUCTOR IS ATTACHED TO SERVICE MAST, RIGID CONDUIT IS REQUIRED AND MAST MUST BE PROPERLY ATTACHED ACCORDING TO NEC.
8. WEATHERHEAD UL APPROVED.
9. POST, TREATED 4" X 4" OF SUFFICIENT HEIGHT FOR NEC GROUND CLEARANCE.

NOTES:
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROSIVE. 2 HOLE STRAPS ARE REQUIRED FOR ALL CONDUIT.
C. ANY EXCEPTIONS TO THE ABOVE MUST HAVE HORY ELECTRIC APPROVAL.

HORRY ELECTRIC COOPERATIVE, INC.

TEMPORARY OVERHEAD SERVICE INSTALLATION WITH UNDERGROUND SERVICE

REVISED

AUG 2016
NOTE:
METER SOCKET LOCATION ON HOUSE OR BUILDING TO BE SPOTTED BY HORRY ELECTRIC PERSONNEL.

MATERIALS:
1. GROUND ROD MUST BE WITHIN 2' OF SERVICE AND BURIED BELOW FINISHED GRADE. (REFER TO NEC FOR SIZE)
2. AN INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP SHALL BE UL APPROVED.
4. GROUNDING ELECTRODE CONDUCTOR SHALL BE IN CONDUIT. (REFER TO NEC FOR SIZE)
5. SERVICE MAST SIZE SHALL BE 2" MIN. GALVANIZED RIGID CONDUIT OF SUFFICIENT HEIGHT FOR NESC GROUND CLEARANCE. CONDUIT SHALL NOT BE ENCLOSED OR OTHERWISE CONCEALED AT ANY POINT OTHER THAN THE ROOFLINE. SERVICE ENTRANCE CABLE IS NOT ACCEPTABLE.
6. WEATHERHEAD MUST BE UL APPROVED.
7. METER SOCKETS, USE HORRY ELECTRIC METER BASES OR AN HORRY ELECTRIC APPROVED METER BASE ONLY. SEE HEC APPROVED METER BASE LIST.

NOTES:
1. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
2. ALL CONDUIT, SOCKET MOUNTING HARDWARE, AND FITTINGS SHALL BE GALVANIZED, STAINLESS, OR OTHERWISE NONCORROSION. PLASTIC/PVC NOT PERMITTED.
3. 2-HOLE STRAPS ARE REQUIRED ON ALL CONDUIT.
4. CONDUIT COUPLINGS IN SERVICE MAST SHALL NOT BE INSTALLED ABOVE THE ROOFLINE.
5. SERVICE DROP SHALL NOT PASS ALONG OR OVER ANY PORTION OF THE ROOF IN ANY DIRECTION FOR MORE THAN SIX FEET, MEASURED HORIZONTALLY.
6. ANY EXCEPTIONS TO THE REQUIREMENTS LISTED ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORRY ELECTRIC COOPERATIVE.
CUSTOMER POLE MUST BE 4" X 6" TREATED MIN., UTILITY TYPE POLE IS PREFERRED, SET 3' MIN IN THE GROUND, AND ABLE TO SUPPORT A SERVICEMAN ON A LADDER. POLE HEIGHT MUST TAKE INTO CONSIDERATION THE SAG OF THE SERVICE CABLE FOR GROUND CLEARANCE, GENERALLY 1'-2' ADDITIONAL.

NOTE:
METER SOCKET LOCATION TO BE SPOTTED BY HORRY ELECTRIC PERSONNEL

REQUIRED GROUND CLEARANCE FOR CABLE IS 16'. THIS MAY BE REDUCED TO 12' FOR PEDESTRIAN AND RESTRICTED TRAFFIC ONLY (SEE NESC TABLE 232-1).

MATERIALS:
1. GROUND ROD, MUST BE WITHIN 2' OF SERVICE AND BURIED BELOW FINISH GRADE. (REFER TO NEC FOR SIZE)
2. INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP, UL APPROVED.
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT. (REFER TO NEC FOR SIZE)
5. SERVICE DISCONNECT, AS REQUIRED, AND APPROVED FOR LOCATIONS. FOR A SINGLE INSTALLATION, THE DISCONNECT SHALL BE INSTALLED EITHER BELOW OR TO THE LOAD OF THE METER BASE ONLY. INSTALLATION OF THE DISCONNECT ON HEC'S SIDE OF THE METER BASE WILL NOT BE PERMITTED. A SERVICE DISCONNECT IS REQUIRED FOR EACH SOCKET AT INITIAL INSTALLATION OF ANY MULTI-GANG METER SOCKET.
6. METER SOCKETS, USE HORRY ELECTRIC METER BASES OR AN HORRY ELECTRIC APPROVED METER BASE ONLY. SEE HEC APPROVED METER BASE LIST.
   EACH METER SOCKET SHALL PERMANENTLY AND ACCURATELY IDENTIFY THE UNIT BEING SERVED.
7. SERVICE MAST, SIZE 2" (MIN) SCHEDULE 80 PVC (PER LOCAL JURISDICTION) OR GALVANIZED RIGID CONDUIT OF SUFFICIENT HEIGHT FOR NESC GROUND CLEARANCE. CONDUIT SHALL NOT BE ENCLOSED OR OTHERWISE CONCEALED AT ANY POINT OTHER THAN THE ROOF LINE. SERVICE ENTRANCE CABLE IS NOT ACCEPTABLE.
8. WEATHERHEAD, UL APPROVED.
9. REFER TO NEC FOR WIRE AND CONDUIT SIZE
10. ADEQUATE WEATHERPROOF STRUCTURE TO SUPPORT METER INSTALLATION.

NOTES:
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROSIVE 2-HOLE STRAPS ARE REQUIRED ON ALL CONDUIT.
C. ANY EXCEPTIONS TO THE ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORRY ELECTRIC COOPERATIVE, INC.
   (EX. IF IN A FLOOD ZONE HEC'S STAKING TECH WILL DECIDE THE HEIGHT.)

HORRY ELECTRIC COOPERATIVE, INC.

OVERHEAD SERVICE INSTALLATION

REVISED

AUG 2016
PLACE ALL TEMPORARY SERVICES IN THESE LOCATIONS.

PLACE ALL TEMPORARY SERVICES BETWEEN 2' AND 5' FROM THE TRANSFORMER OR PEDESTAL.

THE MEMBER/INSTALLER IN RESPONSIBLE FOR THERE OWN LOCATE TICKETS. (PUPS TICKETS)

SERVICE MUST BE WITHIN 2 TO 5 FEET OF HEC TRANSFORMER/PEDESTAL.

MATERIALS
1. GROUND ROD, MUST BE WITHIN 2' OF THE SERVICE, AND BURIED BELOW FINISHED GRADE. (REFER TO NEC FOR SIZE)
2. AN INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP. UL APPROVED.
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT (REFER TO NEC FOR SIZE).
5. OVERCURRENT DEVICE APPROVED FOR LOCATION.
6. RECEPTACLES APPROVED FOR LOCATION, GFCI PROTECTION PER NESC.
7. PVC CONDUIT, SCHEDULE 80 (PER LOCAL JURISDICTION).
8. POST, TREATED 4" X 4" OF SUFFICIENT HEIGHT FOR NEC GROUND CLEARANCE.
9. SERVICE CABLE TO BE FURNISHED AND INSTALLED BY MEMBER AND OF SUFFICIENT LENGTH TO ATTACH TO HEC TRANSFORMER/PEDESTAL.

NOTES
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROSION. 2 HOLE STRAPS ARE REQUIRED FOR ALL CONDUIT.
C. ANY EXCEPTIONS TO THE ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORMY ELECTRIC COOPERATIVE, INC.
MATERIALS:
1. GROUND ROD MUST BE WITHIN 2' OF THE SERVICE AND BURIED BELOW FINISH GRADE. (REFER TO NEC FOR SIZE)
2. INDEPENDENT GROUND ROD REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP, UL APPROVED.
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT. (REFER TO NEC FOR SIZE)
5. SERVICE DISCONNECT, AS REQUIRED, AND APPROVED FOR LOCATIONS. FOR A SINGLE INSTALLATION, THE DISCONNECT SHALL BE INSTALLED EITHER BELOW OR TO THE LOAD OF THE METER BASE ONLY. INSTALLATION OF THE DISCONNECT ON HEC'S SIDE OF THE METER BASE WILL NOT BE PERMITTED. A SERVICE DISCONNECT IS REQUIRED FOR EACH SOCKET AT INITIAL INSTALLATION OF ANY MULTI-GANG METER SOCKET.
6. METER SOCKETS, USE HORRY ELECTRIC METER BASES OR AN HORRY ELECTRIC APPROVED METER BASE ONLY. SEE HEC APPROVED METER BASE LIST.
    EACH METER SOCKET SHALL BE PERMANENTLY AND ACCURATELY IDENTIFY THE UNIT BEING SERVED.
7. CONDUIT, PVC, SCHEDULE 80; (PER LOCAL JURISDICTION) 2" REQUIRED FOR SINGLE SOCKET, 3" REQUIRED FOR 2 THROUGH 4 GANG SOCKETS AND 4" REQUIRED FOR 5 AND 6 GANG SOCKETS.
8. PVC, SIZED ACCORDINGLY FOR SERVICE LATERAL.
9. REFER TO NEC FOR WIRE AND CONDUIT SIZE.
10. ADEQUATE WEATHERPROOF STRUCTURE TO SUPPORT METER INSTALLATION.

NOTES:
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROSIVE. 2-HOLE STRAPS ARE REQUIRED ON ALL CONDUIT.
C. THE MEMBER WILL SUPPLY WIRE AND CONDUIT TO ALL SERVICES 7 GANG OR LARGER.
    THIS WILL GO FOR 1 PHASE AND 3 PHASE SERVICES.
D. ANY EXCEPTIONS TO THE ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORRY ELECTRIC COOPERATIVE, INC.
    (EX: IF IN A FLOOD ZONE HEC'S STAKING TECH WILL DECIDE THE HEIGHT.)

HORRY ELECTRIC COOPERATIVE, INC.

UNDERGROUND SERVICE INSTALLATIONS

REVISED

AUG 2016
OPTIONAL UNDERGROUND INSTALLATION FOR MOBILE HOMES OR OTHER RESIDENCES

NOTE:
METER SOCKET LOCATION TO BE SPOTTED BY HORRY ELECTRIC PERSONNEL

MATERIALS:
1. GROUND ROD MUST BE WITHIN 2' OF THE SERVICE AND BURIED BELOW FINISH GRADE. (REFER TO NEC FOR SIZE)
2. AN INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP, UL APPROVED.
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT. (REFER TO NEC FOR SIZE)
5. SERVICE DISCONNECT, AS REQUIRED, AND APPROVED FOR LOCATIONS. FOR A SINGLE INSTALLATION, THE DISCONNECT SHALL BE INSTALLED EITHER BELOW OR TO THE LOAD SIDE OF THE METER BASE ONLY. INSTALLATION OF THE DISCONNECT ON HEC’S SIDE OF THE METER BASE WILL NOT BE PERMITTED.
6. METER SOCKETS, USE HORRY ELECTRIC METER BASES OR AN HORRY ELECTRIC APPROVED METER BASE ONLY. SEE HEC APPROVED METER BASE LIST.
7. CONDUIT, PVC, SCHEDULE 80; (PER LOCAL JURISDICTION)
8. PVC, SIZED ACCORDINGLY FOR SERVICE LATERAL.
9. REFER TO NEC FOR WIRE AND CONDUIT SIZE
10. ADEQUATE WEATHERPROOF STRUCTURE TO SUPPORT METER INSTALLATION.

NOTES:
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROSIVE. 2-HOLE STRAPS ARE REQUIRED ON ALL CONDUIT.
C. ANY EXCEPTIONS TO THE ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORRY ELECTRIC COOPERATIVE, INC. (EX. IF IN A FLOOD ZONE HEC'S STAKING TECH WILL DECIDE THE HEIGHT.)
320 AMP UNDERGROUND SERVICE INSTALLATION

MATERIALS:
1. GROUND ROD MUST BE WITHIN 2' OF THE SERVICE AND BURIED BELOW FINISH GRADE. (REFER TO NEC FOR SIZE)
2. AN INDEPENDENT GROUND ROD IS REQUIRED FOR EACH SERVICE.
3. GROUND ROD CLAMP, UL APPROVED.
4. GROUNDING ELECTRODE CONDUCTOR IN CONDUIT. (REFER TO NEC FOR SIZE)
5. SERVICE DISCONNECT, AS REQUIRED, AND APPROVED FOR LOCATIONS.
6. METER SOCKETS, USE HORME ELECTRIC METER BASES OR AN HORME ELECTRIC APPROVED METER BASE ONLY.
   SEE HEC APPROVED METER BASE LIST.
7. CONDUIT, PVC, SCHEDULE 80; (PER LOCAL JURISDICTION)
8. PVC, SIZED ACCORDINGLY FOR SERVICE LATERAL.
9. REFER TO NEC FOR WIRE AND CONDUIT SIZE
10. ADEQUATE WEATHERPROOF STRUCTURE TO SUPPORT METER INSTALLATION.

NOTES:
A. ALL CONDUIT CONNECTIONS SHALL BE TIGHT.
B. ALL CONDUIT AND SOCKET MOUNTING HARDWARE AND FITTINGS SHALL BE GALVANIZED OR OTHERWISE NONCORROOSIVE. 2-HOLE STRAPS ARE REQUIRED ON ALL CONDUIT.
C. ANY EXCEPTIONS TO THE ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORME ELECTRIC COOPERATIVE, INC.
(EX. IF IN A FLOOD ZONE HEC'S STAKING TECH WILL DECIDE THE HEIGHT.)
FRONT OF PAD DOORS OPEN TO THIS SIDE

NOTES:
- REQUIRED FOR ALL TRANSFORMERS 500 KVA AND LARGER
- BUILDER IS RESPONSIBLE FOR THE INSTALLATION AND COST OF POURING THE PAD
- CONCRETE PAD MINIMUM OF 6" THICK
- CONCRETE IS TO BE SET 4" ABOVE FINISHED GRADE
- CUT CONDUIT OFF LEVEL WITH THE TOP OF THE PAD
- LEAVE 8'-0" TAILS ON CUSTOMER OWNED WIRE.(SECONDARY SIDE)
- ANY EXCEPTIONS TO THE ABOVE MUST HAVE PRIOR WRITTEN APPROVAL FROM HORRY ELECTRIC COOPERATIVE, INC.
NOTES:
1. IN THE EVENT OF EQUIPMENT FAILURE OR POWER OUTAGE, IT IS NECESSARY FOR UTILITY CREWS TO HAVE ADEQUATE AND SAFE ACCESS TO ALL EQUIPMENT.
2. ACCESS TO THE FRONT SHALL BE 10' AND ACCESS TO THE REAR AND SIDES SHALL BE 4'.
3. PADMOUNT SWITCHGEAR REQUIRES 10' ACCESS ON BOTH THE FRONT AND REAR AND 4' ON EACH SIDE.
4. TREES, SHRUBS, FENCES, LARGE LANDSCAPING ROCKS, OR ANY OTHER OBSTRUCTIONS SHALL NOT BE PERMITTED IN THE ACCESS AREA.