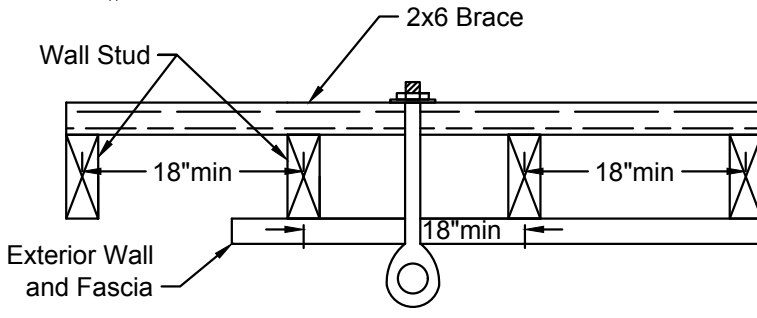
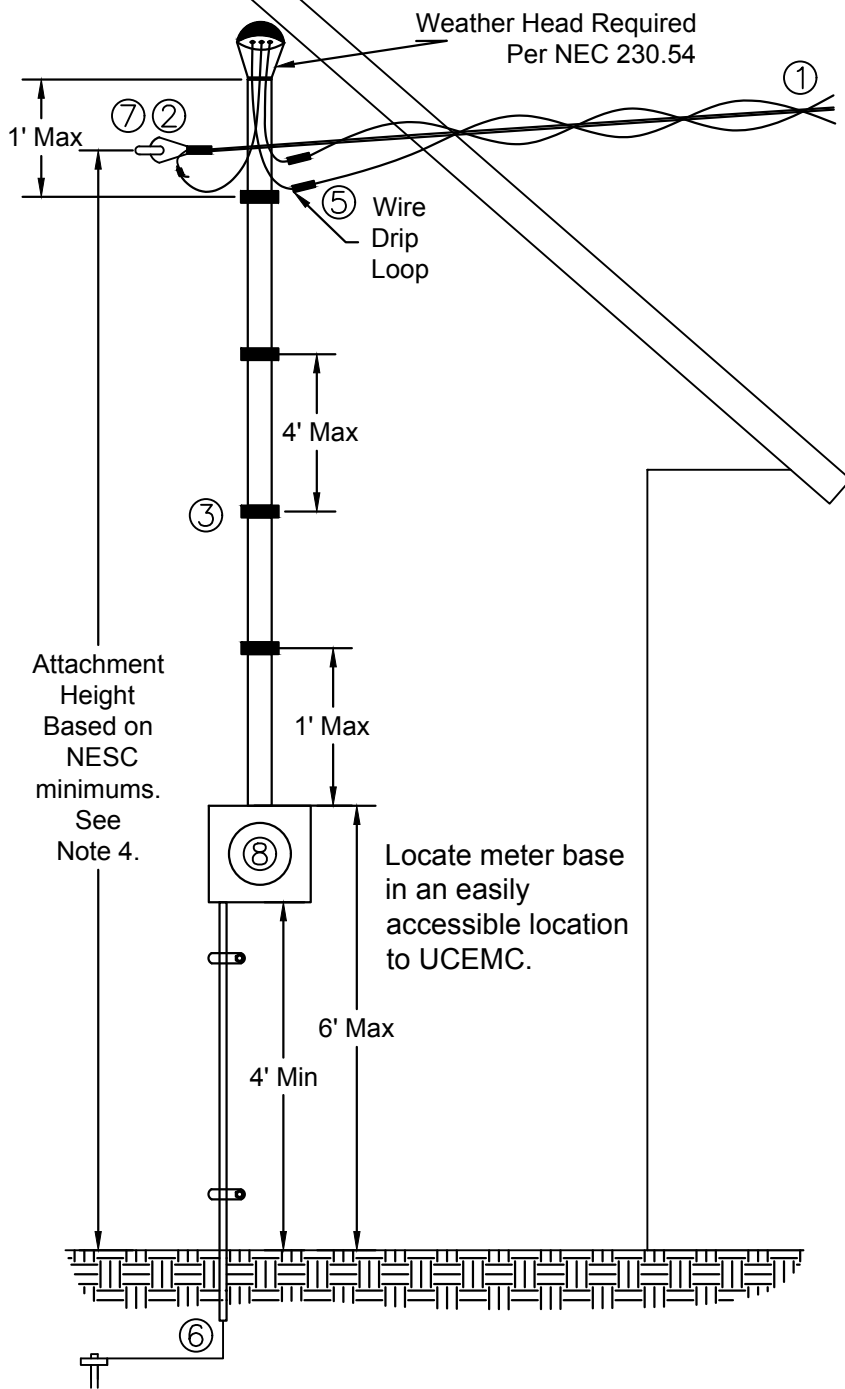


NOTES:

1. Service attachment heights shall be in accordance with the most recent version of the NESC. (See table 232) The current minimum values are included below.
 - (NEC) 10' minimum for electrical service wire & the drip loop.
 - 12' minimum above walks and final grade.
 - 16' minimum above residential driveway.
 - 18' minimum above public streets, alleys, and cultivated fields or grazing areas.
2. 2 1/2" minimum rigid steel conduit, & Ridged standoffs.
3. Mast entrance can be used on all types of brick, stud, block and steel construction to obtain necessary clearance.
4. Service panel shall not be located in stud space behind the meter if it would interfere with conduit clamp placement.
5. If riser exceeds 48" above roof, then use a metal brace or wire as required to support the riser.
6. The minimum roof clearances from wire to roof shall be 3' but can be reduced to 18" if the service conductors are 6' or less in distance and over hang the roof 4' or less, with a pitch of less than 4 rise to 12 run.
7. The minimum roof clearances from wire to roof shall be 3' at the closest point to the roof when spanned over a portion of the roof. (See Note 6 for an exception when applicable.)

See Note ①



Eyebolt Mount Detail

GENERAL NOTES:

1. The secondary wire's point of attachment must be less than 125' from the prior UCEMC pole in a path that is clear of obstruction and containing minimal vegetation.
2. An eyebolt $\frac{5}{8}$ inch diameter minimum will be supplied by UCEMC. See the eyebolt detail on this drawing for mounting specifications. Notify your engineer if you haven't received it. The eyebolt should be mounted within 24" of the conduit weather head. Locate eyebolt mounting on structural members of the building's frame capable of supporting wire weight and tension loads. The attachment point shall be located 3 ft from doors, porches, balconies, ladders, stairs, fire escapes, or similar locations so as to make the service wires out of reach.
3. There shall be a minimum of two ridged conduit straps for support on the conduit. The conduit shall be 2.5" minimum or for larger conductors requiring a larger conduit, size per the most current NEC version.
4. Attachment height shall be based on the most current version of the NESC. Currently 18' minimum above public streets, alleys, and cultivated fields. 16' minimum above residential driveways and 12' minimum above finished grade and walkways.
5. Service entrance conductor must extend 36" minimum from the weather head for connecting purposes.
6. Ground wires shall be unspliced in accordance with the most current version of the NEC. Driven ground rods and clamp shall be below grade.
7. Locate eyebolt such that multiplexed cable taking off from a UCEMC pole can not touch or rub against any part of the support structure or the riser assembly. See drawing MB-OH1 for an alternate mount solution.
8. The meter base shall be flush mounted on the building's exterior wall using $\frac{1}{4}$ " stainless steel bolts or lag screws. The meter base will be located where it will be easily accessible with no obstructions for UCEMC to access without a need to move objects or gain access from the home owner.



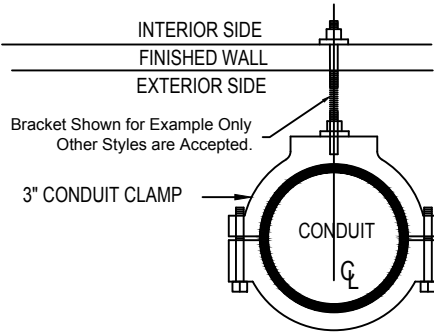
**OVERHEAD SERVICE
PERMANENT METER BASE
EYE BOLT MOUNTED**

DATE: 04-18-2019

STANDARD
MB-OH 2

DETAIL OF CONDUIT STAND-OFF

PLAN A



Bracket Shown for Example Only
Other Styles are Accepted.

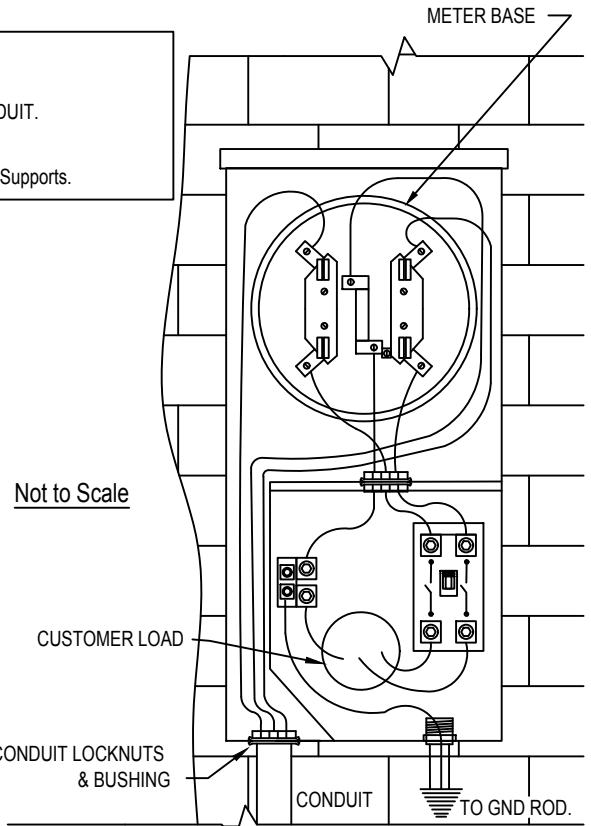
3" CONDUIT CLAMP

NOTES:

1. INSTALL 3" CONDUIT STAND-OFF.
2. STAND-OFF MUST SUPPORT WEIGHT OF CONDUIT.
3. ALL PVC CONDUIT SHALL BE SCHEDULE 80.
4. ALL CONDUITS LONGER THAN 3' SHALL HAVE 2 Supports.

GENERAL NOTES:

1. All installations shall comply with the most current version of the National Electric Code. This included all wire sizing, and disconnect ratings.
2. UCEMC reserves the right NOT to connect service if the CO-OP representative considers the installation to not be according to these specifications.
3. Exterior service disconnects may not be required, ask your electrician to verify. if not required reference specification MB-UG1.
4. Meter shall not be installed inside porches, carports, garages or on any part of the building that may some day be enclosed.
5. For Mobile Homes see NEC 550.32 for information regarding Service Entrance equipment. Mobile Homes service equipment can not be located on the mobile home, see UCEMC SPEC MOP-1 for details.



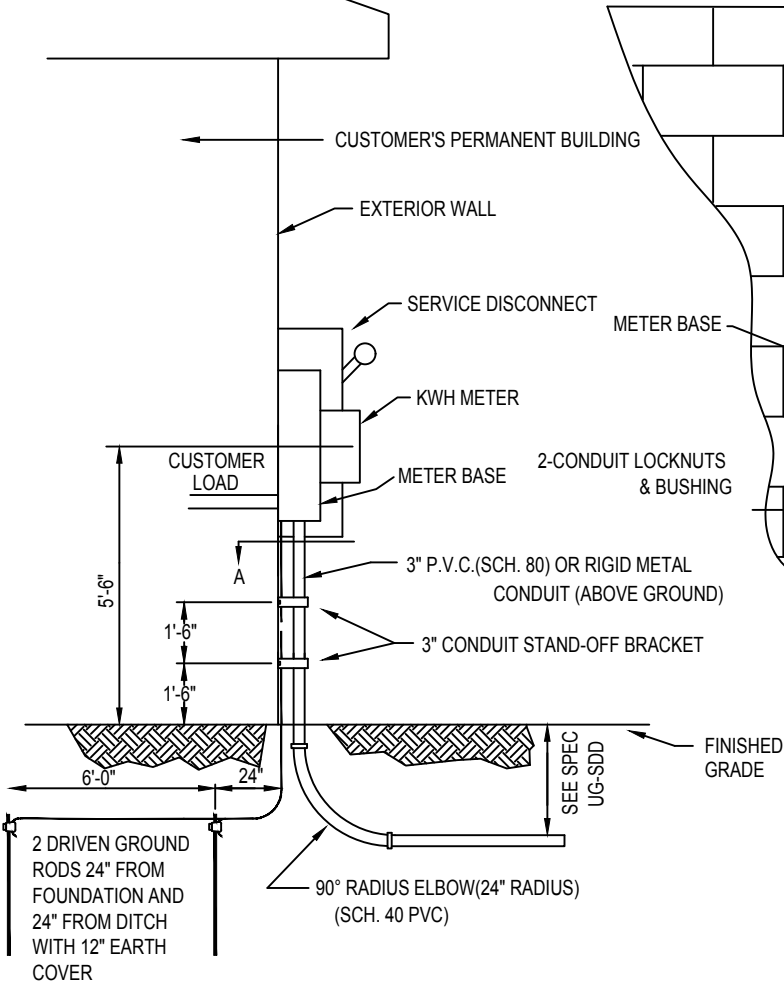
Not to Scale

CUSTOMER LOAD

2-CONDUIT LOCKNUTS & BUSHING

CONDUIT

TO GND ROD.



CUSTOMER'S PERMANENT BUILDING

EXTERIOR WALL

SERVICE DISCONNECT

KWH METER

CUSTOMER LOAD

METER BASE

2-CONDUIT LOCKNUTS & BUSHING

3" P.V.C.(SCH. 80) OR RIGID METAL CONDUIT (ABOVE GROUND)

3" CONDUIT STAND-OFF BRACKET

METER BASE

5'-6"

1'-6"

1'-6"

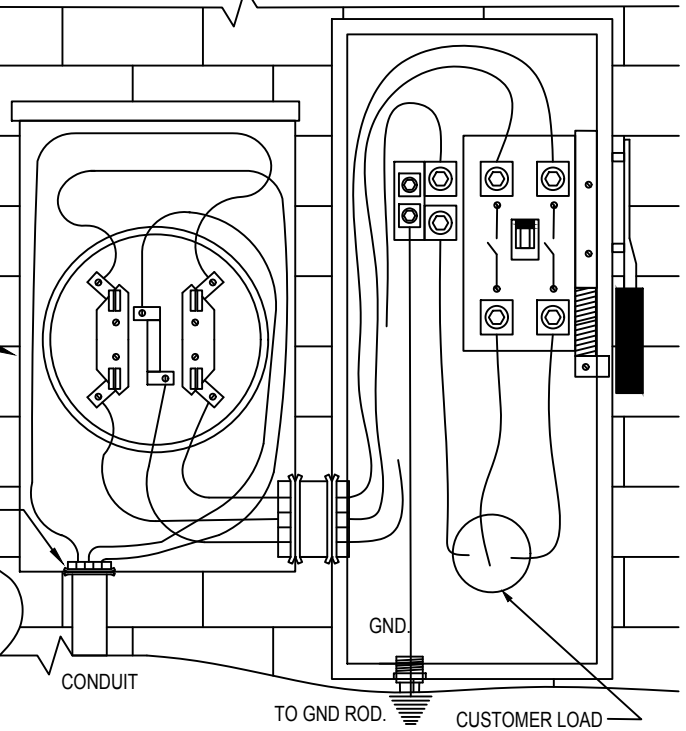
6'-0"

90° RADIUS ELBOW(24" RADIUS) (SCH. 40 PVC)

FINISHED GRADE

2 DRIVEN GROUND RODS 24" FROM FOUNDATION AND 24" FROM DITCH WITH 12" EARTH COVER

SEE SPEC UG-SDD



CONDUIT

TO GND ROD.

CUSTOMER LOAD

NOTES:

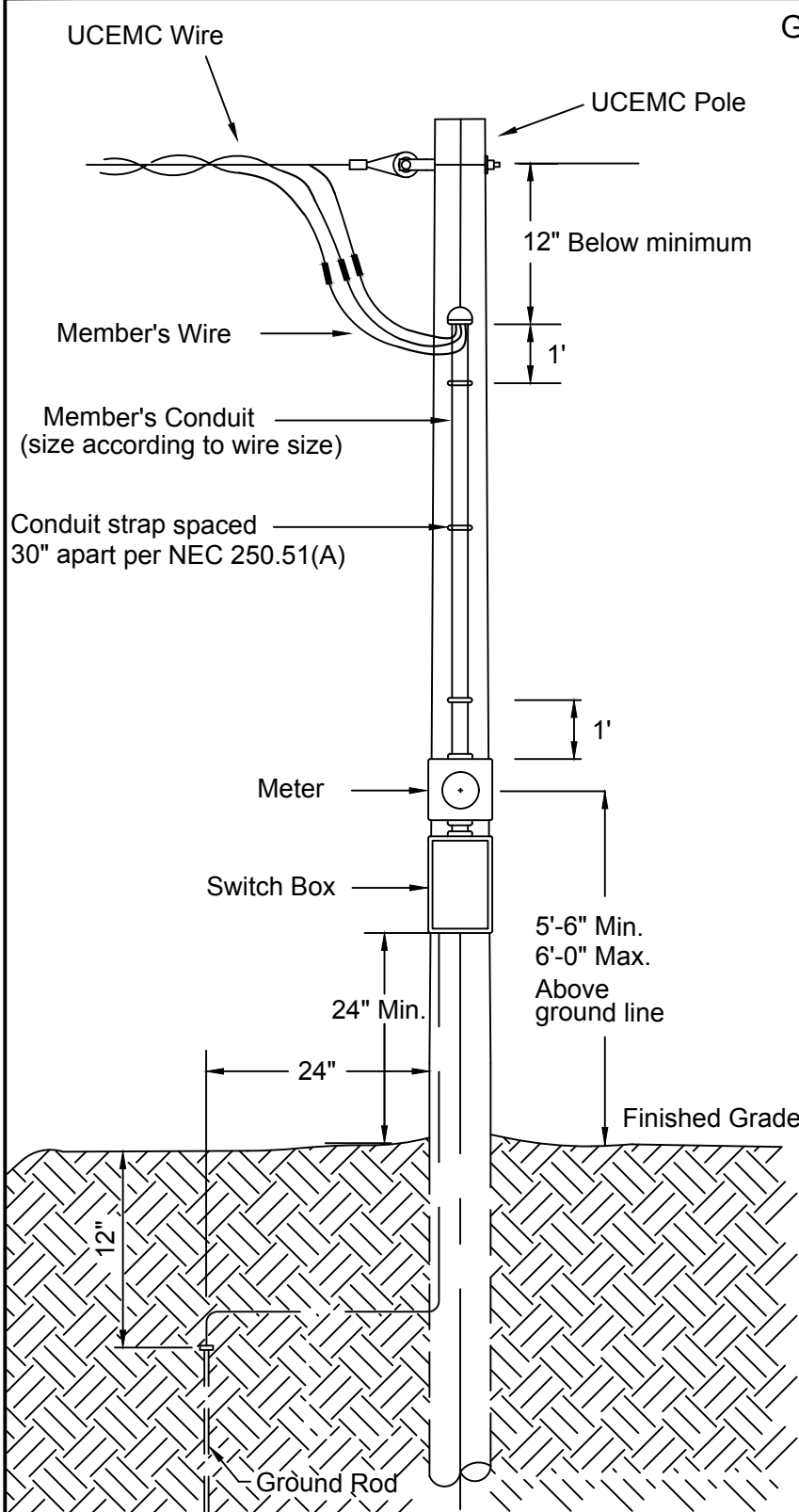
1. Ground wires shall be unspliced in accordance with the most current version of the NEC.
2. The meter base shall be flush and securely mounted on the exterior wall where it will be easily accessible for UCEMC to access without the need to move objects or gain access from the home owner.
3. See Standard UG-SDD for the secondary conduit ditch detail.



UNDERGROUND SERVICE PERMANENT METER BASE EXTERIOR DISCONNECT

DATE: 07-02-2019

STANDARD MB-UG 2



GENERAL NOTES:

1. There shall be a minimum of two conduit straps to support the weather head conduit attached to the pole. It must be permanently secured to the pole to prevent sway or lateral motion. The conduit shall be sized in accordance with the most current version of the NEC .
2. Service entrance conductor must extend 36" minimum from the weather head for connecting purposes.
3. Ground wires shall be unspliced in accordance with the most current version of the NEC. An 8' minimum driven ground rod and clamp are shown to be connected below grade as a typical ground.
4. The meter base shall be flush mounted on the pole using $\frac{1}{4}$ " stainless steel bolts or lag screws. The meter base will be located where it will be easily accessible with no obstructions for UCEMC to access without the need to move objects or gain access from the home owner.
5. The pole is the property of Upper Cumberland Electric Membership Corporation. The pole should not be used as a support for a deck, basketball goal post, CATV antenna support, or for any other type aerial cable clothes drying system. The pole should not be modified, built around or utilized for any other purpose then to provide a permanent means of electric service.
6. UCEMC reserves the right not to install a service that does not adhere to the specifications in this document.
7. The switch box shown is for example only, representing a service disconnecting means. All attached feeders or equipment configurations are not shown.

GENERAL NOTE:

This diagram is intended to show the construction requirements for pole metering. Refer to the National Electric Code 300 to determine the wiring specifications for the type of service being installed.

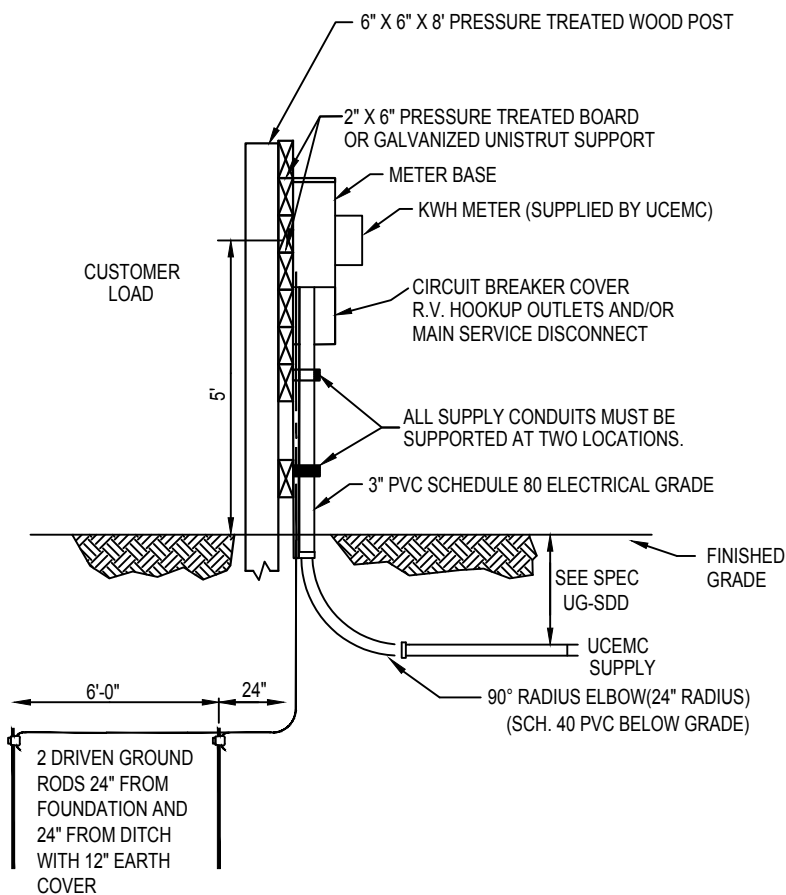
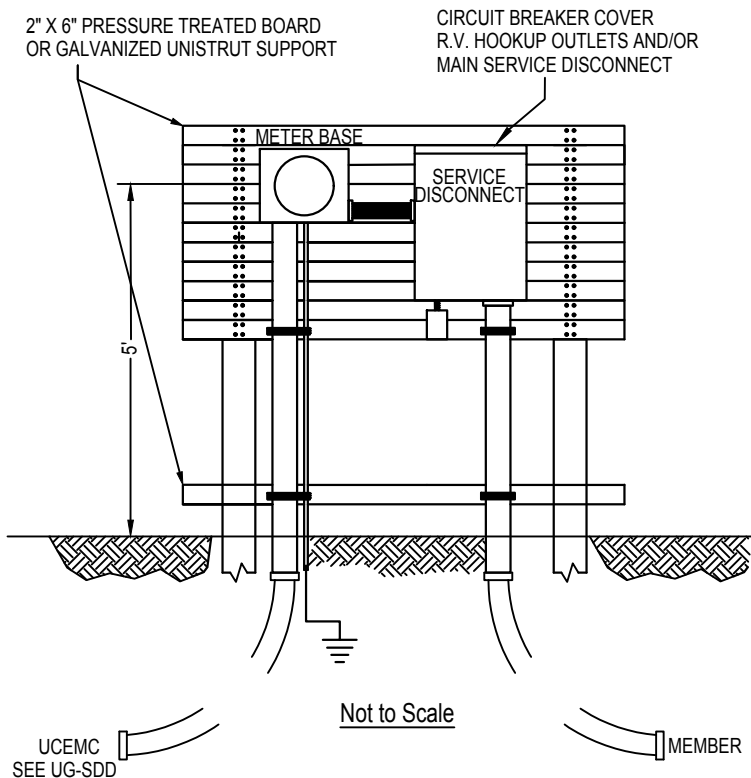


**METERING ON THE POLE
PERMANENT METER BASE
WEATHER HEAD MOUNT**

DATE: 04-18-2019
STANDARD
MOP-1

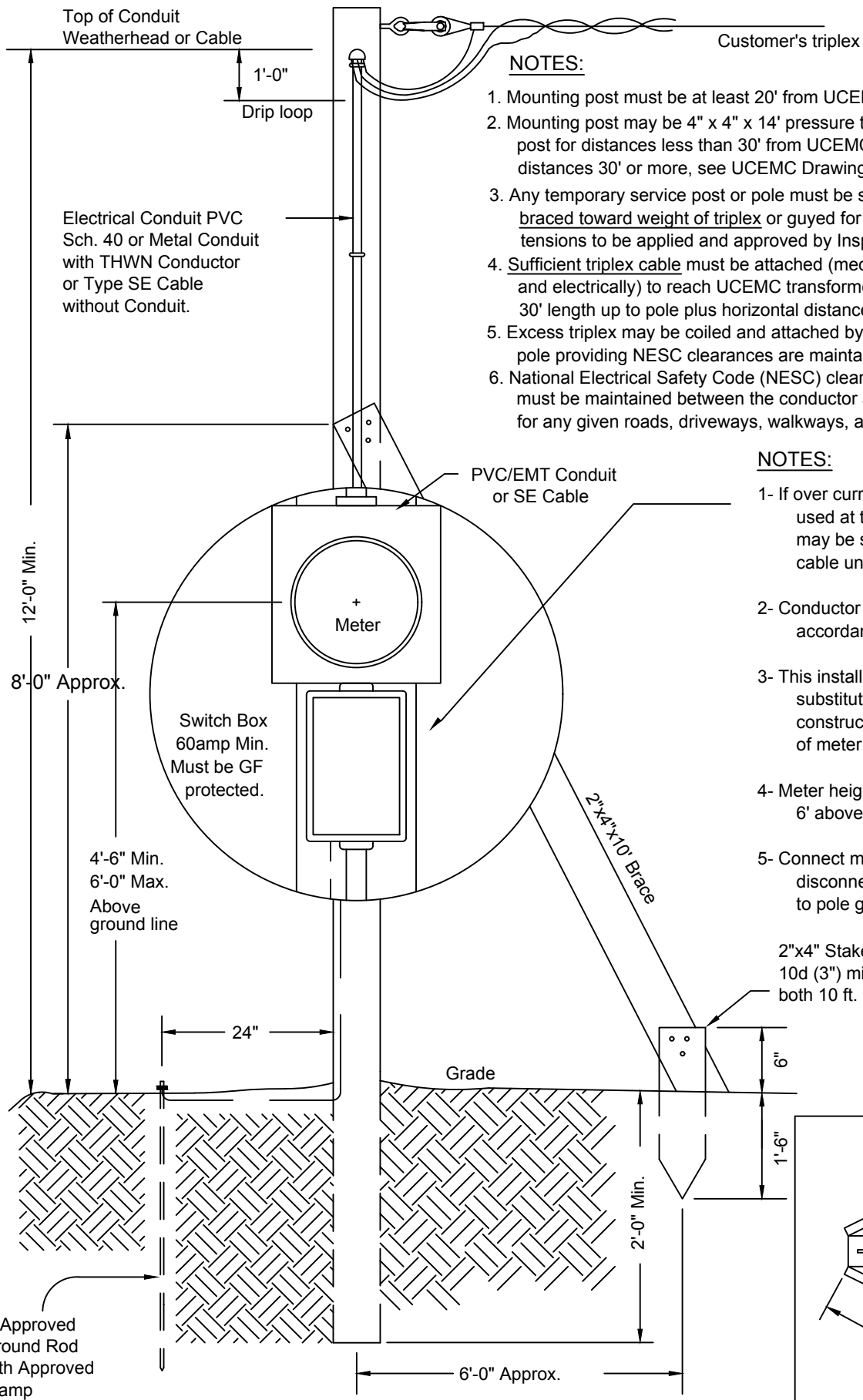
GENERAL NOTES:

1. There shall be conduit straps to support the conduit attached to the two pole and cross support structure. The conduit shall be size 3" Schedule 80 electrical grade PVC.
2. Service entrance conductors are to be installed by UCEMC.
3. Ground wires shall be unspliced and installed in accordance with the most current version of the NEC.
4. The meter base shall be flush mounted on the cross boards using $\frac{1}{4}$ " stainless steel bolts or lag screws. The meter base will be located where it will be easily accessible with no obstructions for UCEMC to access without the need to move objects or gain access from the home owner.
5. When supplying power to a mobile home, locate the pedestal within 30' of the structure.
6. UCEMC reserves the right not to install a service that does not adhere to the specifications in this document.
7. The switch box shown is for example only, representing a service disconnecting means. All possible equipment configurations are not shown.
8. The meter base and pedestal should be positioned such that it is pointed toward the driveway or street and away from any large obstructions that could enclose the meter base.
9. All material shown is to be supplied and installed by the member or the member's electrician unless otherwise noted.



OTHER NOTES:

1. Perform all work in accordance with the most current version of the NEC.
2. The meter base shall be flush and securely mounted on a 2"x6" pressure treated support or unistrut.
3. See Standard UG-SDD for the secondary conduit ditch detail.



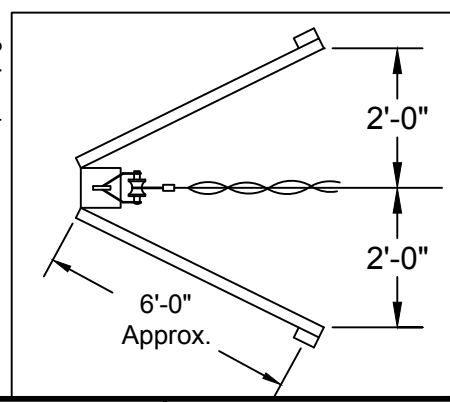
NOTES:

1. Mounting post must be at least 20' from UCEMC pole.
2. Mounting post may be 4" x 4" x 14' pressure treated post for distances less than 30' from UCEMC pole, for distances 30' or more, see UCEMC Drawing TMB-2.
3. Any temporary service post or pole must be sufficiently braced toward weight of triplex or guyed for the tensions to be applied and approved by Inspector.
4. Sufficient triplex cable must be attached (mechanically and electrically) to reach UCEMC transformer (allow 30' length up to pole plus horizontal distance).
5. Excess triplex may be coiled and attached by UCEMC to pole providing NESC clearances are maintained.
6. National Electrical Safety Code (NESC) clearances must be maintained between the conductor and ground for any given roads, driveways, walkways, and etc.

NOTES:

- 1- If over current device is used at this point UF cable may be substituted for USE cable underground.
- 2- Conductor sizes will be in accordance with service load.
- 3- This installation may be substituted for overhead construction on load side of meter.
- 4- Meter height to be 4'-6" to 6' above ground line.
- 5- Connect meter base and disconnect switch enclosure to pole ground wire.

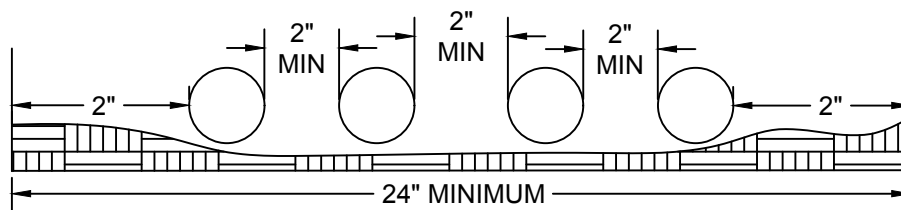
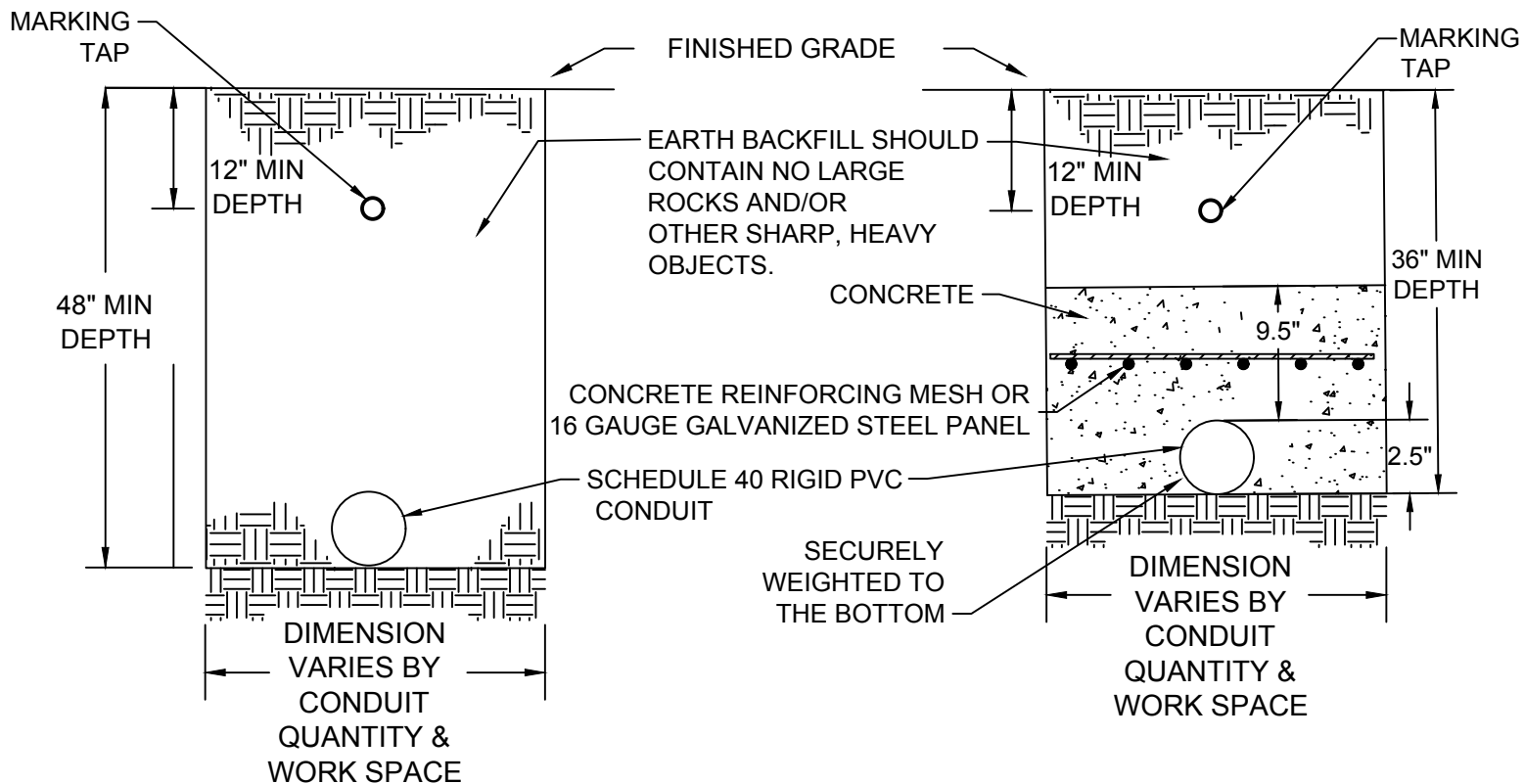
2"x4" Stake nailed with 10d (3") min. nails to both 10 ft. braces



**TEMPORARY METER POLE
(FOR CONSTRUCTION USE)
60-100A SERVICE**

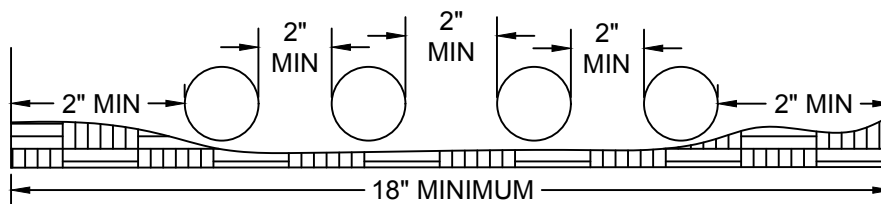
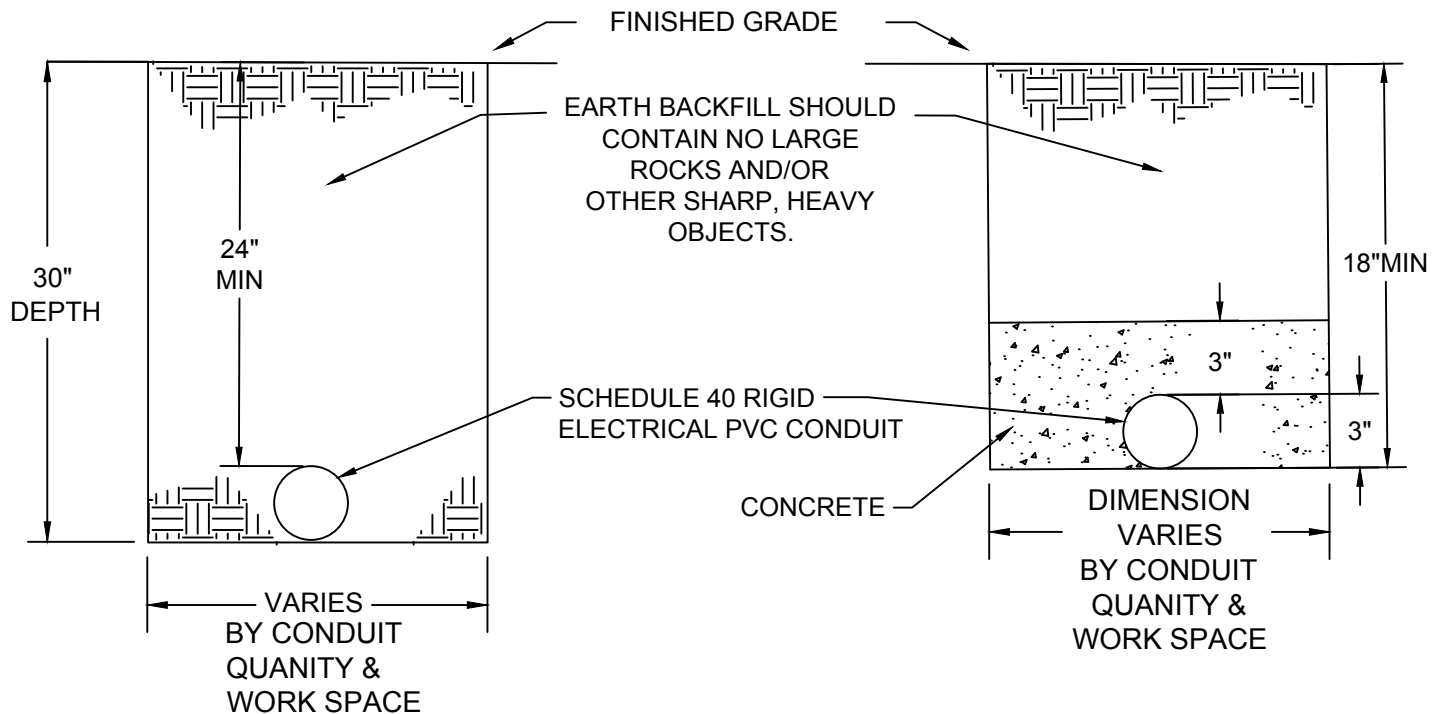
DATE: 06-03-2013

STANDARD
TMB-1



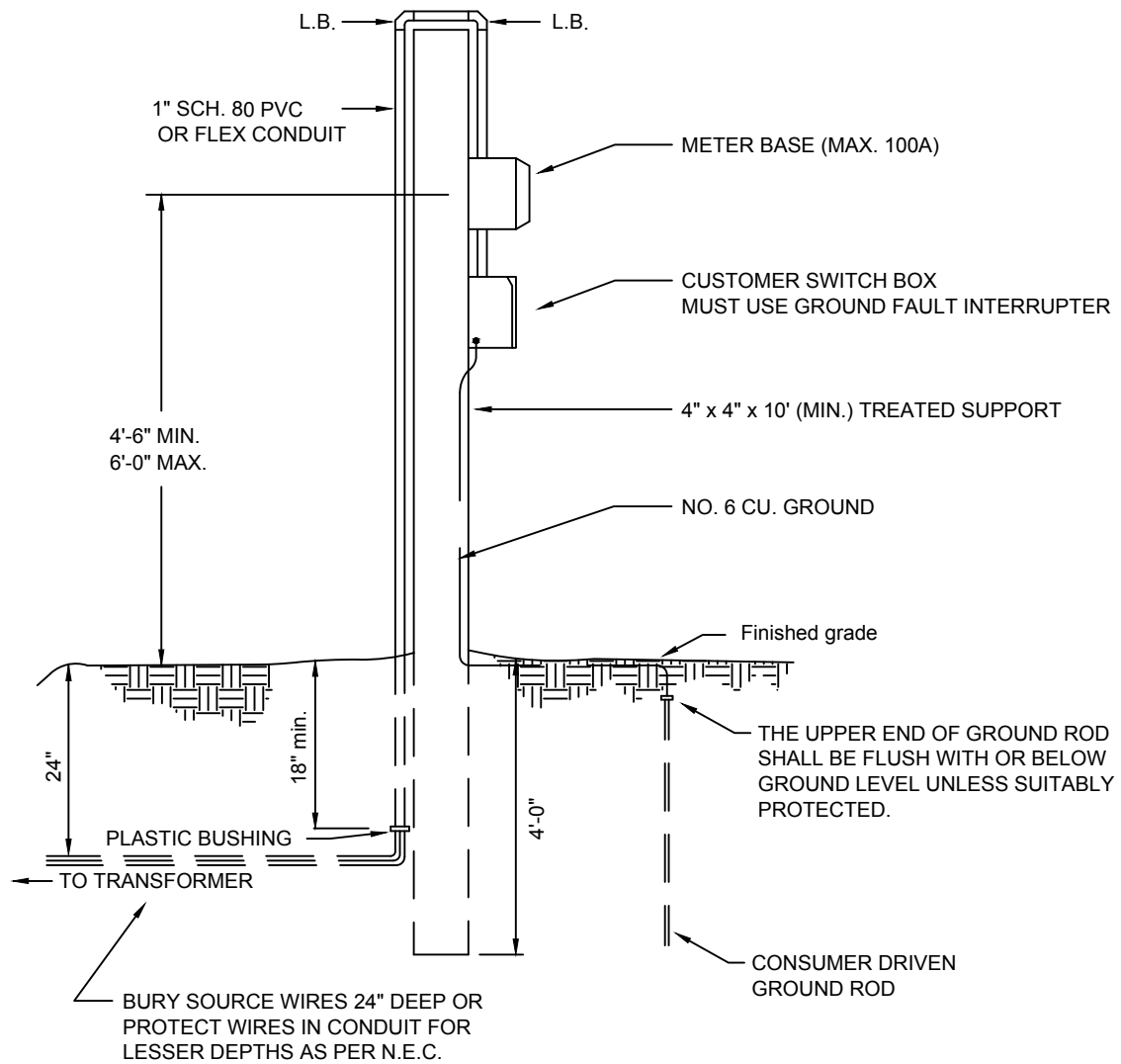
NOTES

1. CONDUIT SHALL BE 2.5" RIGID PVC SCHEDULE 40 ELECTRICAL GRADE EXCEPT UNDER DRIVEWAYS. CONDUITS INSTALLED UNDER DRIVEWAYS SHALL BE SCHEDULE 80 PVC ELECTRICAL GRADE.
2. NO SHARP BENDS WILL BE ALLOWED. HORIZONTAL BENDS MUST BE GREATER THAN 6 FEET IN RADIUS.
3. THE DITCH DEPTH SHOULD MATCH THE DETAILS DEPTH, WITH THE BOTTOM OF DITCH LEVEL OR SLOPING AT A CONSISTENT ANGLE SUCH THAT THE CONDUIT WILL BE SUPPORTED WELL WITH LITTLE OR NO VERTICAL BENDING IN THE DITCH. IF A SOLID ROCK IS ENCOUNTERED, THE CONDUIT MAY BE ENCASED IN 12" OF CONCRETE NOT LESS THAN 24" BELOW FINISHED GRADE.
4. ALL FOREIGN UTILITIES MUST MAINTAIN 36" PARALLEL HORIZONTAL SEPARATION AND 12" OF VERTICAL SEPARATION BETWEEN UCEMC'S POWER CONDUIT AND THE FOREIGN UTILITY.
5. MAINTAIN 2" OF SEPARATION BETWEEN EACH INSTALLED CONDUIT.
6. THE BOTTOM OF THE DITCH SHOULD BE CLEAN TAMPED EARTH FREE FROM ABRASIONS.
7. DO NOT DIG THE DITCH WITHIN 5' OF SWIMMING POOLS OR UNDERNEATH THE FOUNDATION OF BUILDINGS OR OTHER STRUCTURES SUCH AS SHEDS, GARAGES, OR TANKS.
8. MACHINE COMPACTION OF BACKFILL SHALL NOT BE USED.



NOTES

1. CONDUIT SHALL BE 3" RIGID PVC SCHEDULE 40 ELECTRICAL GRADE EXCEPT UNDER DRIVEWAYS. CONDUITS INSTALLED UNDER DRIVEWAYS SHALL BE SCHEDULE 80 PVC ELECTRICAL GRADE.
2. NO SHARP BENDS WILL BE ALLOWED. HORIZONTAL BENDS MUST BE GREATER THAN 6' RADIUS.
3. THE DITCH MUST BE BETWEEN 27" AND 30" DEEP, WITH THE BOTTOM OF DITCH LEVEL OR SLOPING AT A CONSISTENT ANGLE SUCH THAT THE CONDUIT WILL BE SUPPORTED WELL WITH LITTLE OR NO VERTICAL BENDING IN DITCH. IF SOLID ROCK IS ENCOUNTERED, CONDUIT MAY BE ENCASED IN 6" OF CONCRETE NOT LESS THAN 18" BELOW FINISHED GRADE.
4. ALL FOREIGN UTILITIES MUST MAINTAIN 36" PARALLEL SEPARATION AND 12" OF VERTICAL SEPARATION BETWEEN UCEMC'S CONDUIT AND THE FOREIGN UTILITY.
5. MAINTAIN 2" OF SEPARATION BETWEEN EACH INSTALLED CONDUIT.
6. THE BOTTOM OF THE DITCH SHOULD BE CLEAN TAMPED EARTH FREE FROM ABRASIONS.
7. DO NOT DIG THE DITCH WITHIN 5' OF SWIMMING POOLS OR UNDERNEATH THE FOUNDATION OF BUILDINGS OR OTHER STRUCTURES SUCH AS SHEDS, GARAGES, OR TANKS.
8. MACHINE COMPACTION OF BACKFILL SHALL NOT BE USED.



NOTES

1. SOURCE CABLE WILL BE OF SUFFICIENT LENGTH TO REACH U.C.E.M.C. TRANSFORMER AND ALLOW 6'-0" ADDITIONAL FOR CONNECTION.
2. GFCI WILL BE REQUIRED ON ALL TEMPORARY CONSTRUCTION ENTRANCES. ALL CIRCUITS FROM SWITCH BOX ON POLE TO CONSTRUCTION SITE WILL BE OF APPROVED TYPE CABLE AND KEPT IN A GOOD, SAFE, SERVICEABLE CONDITION.
3. CONTRACTOR WILL PULL THE INSTALLED GROUND ROD OR DRIVE IT 18" UNDER THE GROUND WHEN SERVICE IS DISCONNECTED.
4. APPROVED 60 AMP WEATHERPROOF SWITCH BOX.
5. NO. 6 CU. OR NO. 4 AL. SOURCE WIRES. MUST BE N.E.C. APPROVED FOR DIRECT BURIAL.