AUB-04-06
Forms/Drawings/Specifications
For Division of Power

OVERHEAD SERVICE MAST

1. The meter center shall be mounted securely to a vertical surface such that the meter will not be tilted in any direction, located such that it will not be subjected to accidental damage, and shall have minimum clearances from obstructions of 12 inches on either side, above and below the receptacle and 36 inches in front.

2. The center of the meter shall be no less than 5 feet, or more than 6 feet above finished grade. Grading and/or fill must be completed before the meter will be installed.

3. The meter center shall be utilized as a meter receptacle only, and shall not be utilized for any other purpose -- junction box, etc. Exceptions are collar type sleeves approved by the Local Control Authority uses for powering other utility services or other utility purposes (e.g., sewer grinder pumps, surge protection, generator automatic transfer equipment, etc.)

4. The weatherhead on the service mast shall not be less than 42 inches above the roof. Where necessary to attach the service drop to the service mast at a point more than 42 inches above the roof line, to comply with other clearance requirements or other reasons, guying will be required as specified by AUB.

5. The service entrance conductor leads shall extend a minimum of 36 inches from the weatherhead of sizes No. 2 AWG and smaller, four feet for sizes 1/0 thru 500 MCM; and six feet for sizes larger than 500 MCM.

6. The uppermost 10 feet of the metallic service mast shall be continuous without sleeve, fitting, or joint of any type.

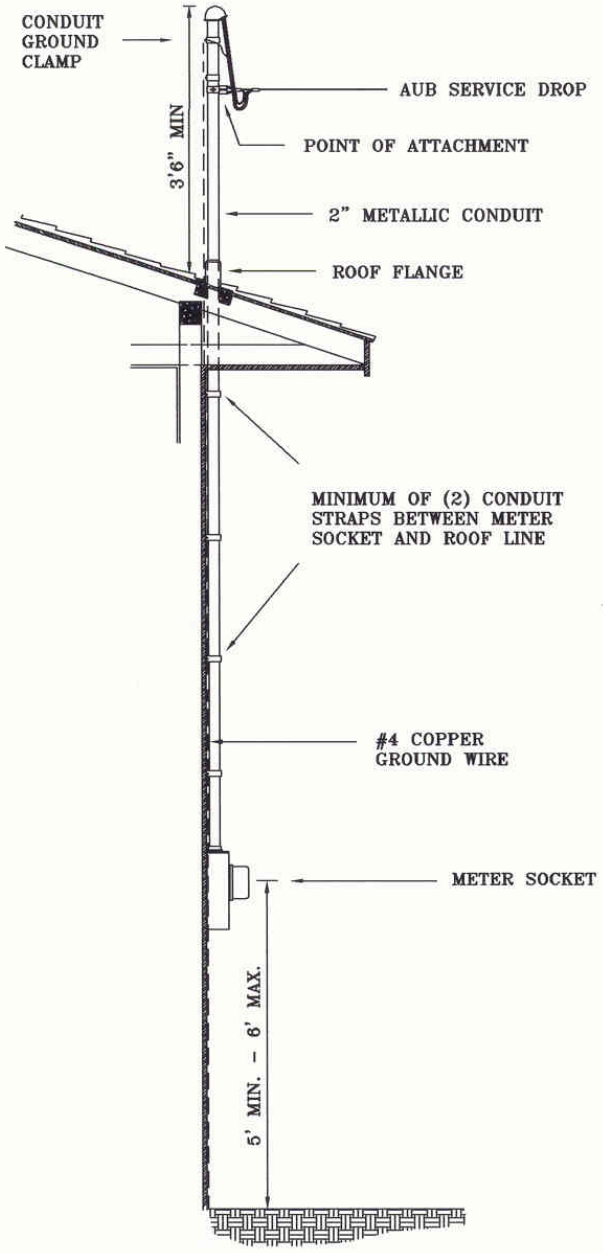
7. Each metallic conduit joint shall be bonded to the ground conductor with approved bonding clamp at the weatherhead.

8. The ground conductor shall meet NEC requirements, and shall be one continuous piece from the grounding electrode to the meter base. It shall be installed adjacent to the conduit, under the conduit straps, outside the meter center and bonded to any rigid conductive conduit(s). (Aluminum, copper-clad aluminum, or steel conductor not acceptable by AUB.)

9. The grounding electrode shall be a driven rod, and at least 18 inches from the foundation of the building or structure where practical and shall not be set at an angle which would cause the rod to be driven under the building or structure into dry soil. The grounding conductor shall not be "jumped" from the building, or structure, to the electrode but shall go down adjacent to the foundation to not less than 6 inches underground and then over to the electrode. All connections shall be made with approved clamps.

10. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

11. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer's expense.



APPROVED:	OVERHEAD SERVICE MAST	ATHENS UTILITIES BOARD ATHENS, TENNESSEE
REVISED DATE:		DWG: OH-1

OVERHEAD SERVICE ATTACHED TO STRUCTURE

1. The meter center shall be mounted securely to a vertical surface such that the meter will not be tilted in any direction, located such that it will not be subjected to accidental damage, and shall have minimum clearances from obstructions of 12 inches on either side, above and below the receptacle and 36 inches in front.

2. The center of the meter shall be no less than 5 feet, or more than 6 feet above finished grade. Grading and/or fill must be completed before the meter will be installed.

3. The meter center shall be utilized as a meter receptacle only, and shall not be utilized for any other purpose -- junction box, etc. Exceptions are collar type sleeves approved by the Local Control Authority used for powering other utility services or other utility purposes, (e.g. sewer grinder pumps, surge protections, generator automatic transfer equipment, etc.).

4. The point of attachment for the overhead service shall be installed at a height to be determined by an AUB representative, meeting clearance requirements established by the NESC.

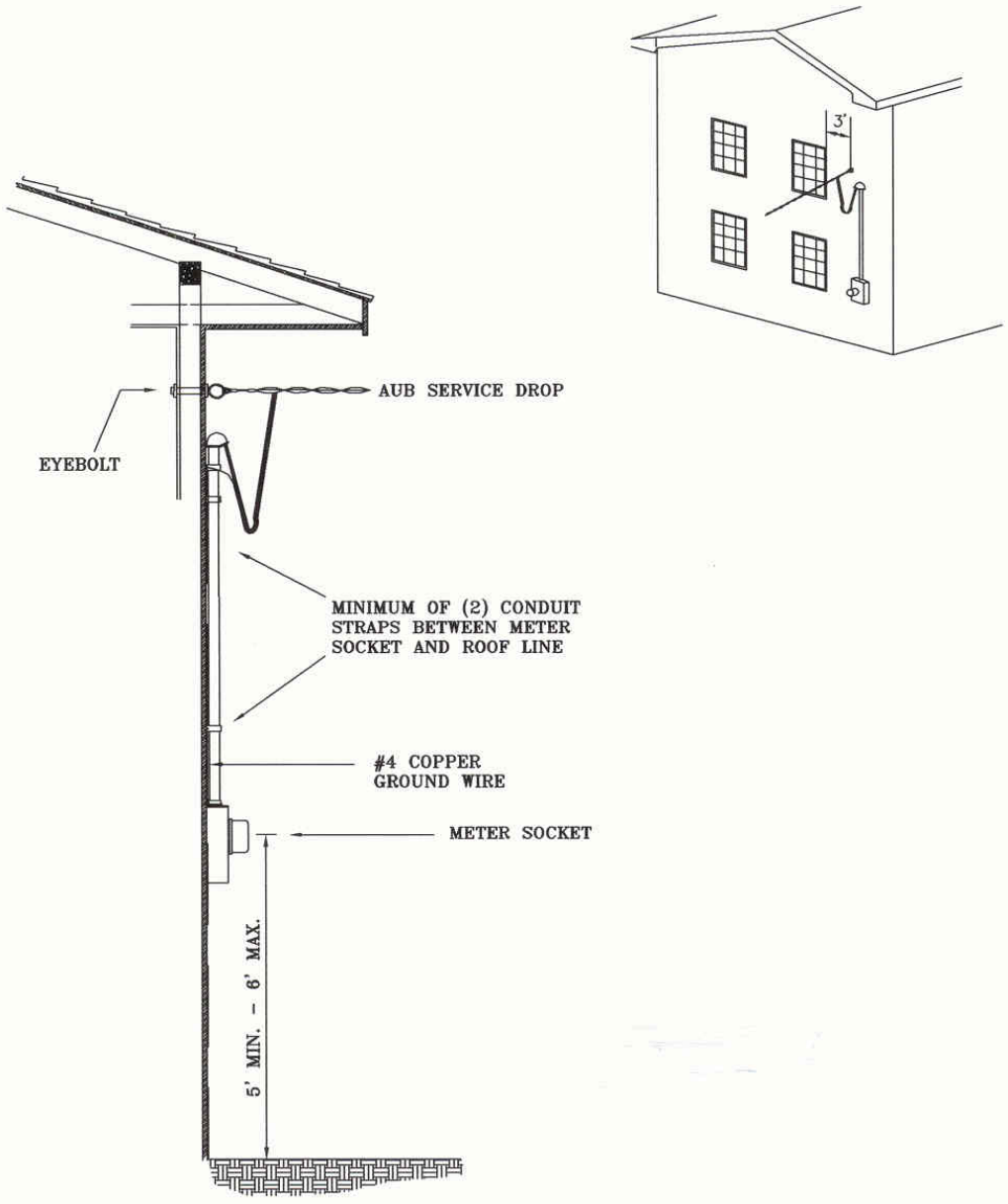
5. The customer shall provide a point of attachment which shall be a 5/8" machine bolt and eye-nut or 5/8" eye-bolt mounted through a header, plate, etc. of sufficient strength to support the service drop.

6. The service entrance conductor leads shall extend a minimum of 36 inches from the weatherhead of sizes No. 2 AWG and smaller, four feet for sizes 1/0 thru 500 MCM; and six feet for sizes larger than 500 MCM.

7. The grounding electrode shall be a driven rod, and at least 18 inches from the foundation of the building or structure where practical and shall not be set at an angle which would cause the rod to be driven under the building or structure into dry soil. The grounding conductor shall not be "jumped" from the building, or structure, to the electrode but shall go down adjacent to the foundation to not less than 6 inches underground and then over to the electrode. All connections shall be made with approved clamps.

8. The ground conductor shall meet NEC requirements, and shall be one continuous piece from the grounding electrode to the meter base. It shall be installed adjacent to the conduit, under the conduit straps, outside the meter center, and bonded to any rigid conduit(s). (Aluminum, copper-clad aluminum, or steel conductor not acceptable by AUB.
9. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

10. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer's expense.



APPROVED:	OVERHEAD SERVICE ATTACHED TO STRUCTURE	ATHENS UTILITIES BOARD ATHENS, TENNESSEE
REVISED DATE:		DWG: OH-2

TEMPORARY SERVICE POLE

1. The customer shall provide a suitable service pole with entrance conductor, meter center and protective devices properly installed for connection with AUB's service drop. Such pole shall have sufficient height and mechanical strength to support the overhead service drop.

2. The meter center shall be mounted securely to the wood pole such that the meter will not be tilted in any direction, located such that it will not be subjected to accidental damage, and shall have minimum clearances from obstructions of 12 inches on either side, above and below the receptacle and 36 inches in front.

3. A temporary pole shall <u>not be</u> fabricated by joining two or more pieces and shall be solid both in cross section and full length.

4. Service entrance conductors shall be encased in conduit, either Schedule 40 PVC or metallic. Metallic conduit shall be bonded to the ground wire with approved clamps. All metallic conduit ends shall be free of any burrs, sharp or rough surfaces and shall be equipped with bushings to protect the conductors.

5. The service entrance conductor leads shall extend a minimum of 36 inches from the weatherhead.

6. The ground conductor shall meet NEC requirements, and shall be one continuous piece from the grounding electrode to the meter base. It shall be installed adjacent to the conduit, under the conduit straps, outside the meter center, and bonded to any rigid conductive conduit(s). (Aluminum, copper-clad aluminum, or steel conductor not acceptable by AUB.)

7. The temporary pole shall be braced with (2) 2" x 4" boards, such that the braces will support the pole against the pull of the AUB service.

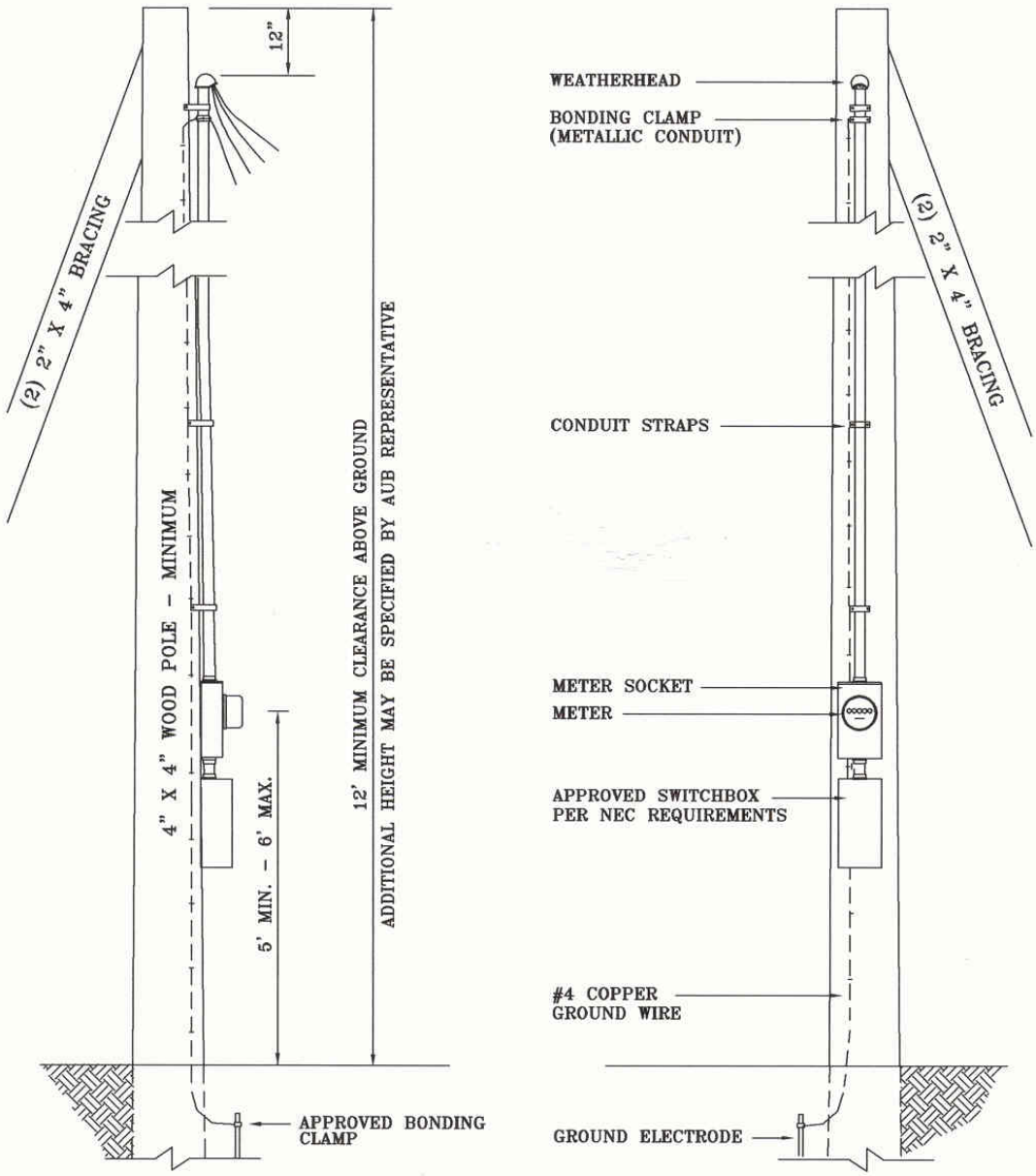
8. Temporary service shall be limited to single phase, 120/240 volts or 120/208 volts depending upon availability of electric service at the location. Temporary service at other voltages or for three phase loads or for loads exceeding 25 KW shall be considered as special cases and each shall be dealt with on its merit.

9. The customer shall agree to reimburse Athens Utilities Board an amount equal to the total unrecoverable cost of providing temporary where temporary facilities are required in excess of the service drop.

10. The temporary service pole shall be maintained in safe and good serviceable condition. An electrical inspection will be required each time the service is connected. Having been accepted and connected at a previous job site does not constitute acceptability at the new job site.

11. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

12. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer's expense.



APPROVED:	TEMPORARY SERVICE POLE	ATHENS UTILITIES BOARD ATHENS, TENNESSEE
REVISED DATE:		DWG: OH-3

MOBILE HOME SERVICE POLE

1. The customer shall provide a suitable service pole with entrance conductor, meter center and protective devices properly installed for connection with the Board's service drop. Such pole shall have sufficient height and mechanical strength to support the overhead service drop.

2. The meter center shall be mounted securely to the wood pole such that the meter will not be tilted in any direction, located such that it will not be subjected to accidental damage, and shall have minimum clearances from obstructions of 12 inches on either side, above and below the receptacle and 36 inches in front.

3. The center of the meter shall be no less than 5 feet, or more than 6 feet above finished grade.

4. A mobile home service pole shall not be fabricated by joining two or more pieces and shall be solid both in cross section and full length.

5. The point of attachment shall be a 5/8" machine bolt and eye-nut or 5/8" eyebolt furnished by the customer.

6. Service entrance conductors shall be encased in conduit, either Schedule 40 PVC or metallic. Metallic conduit shall be bonded to the ground wire with approved clamps.

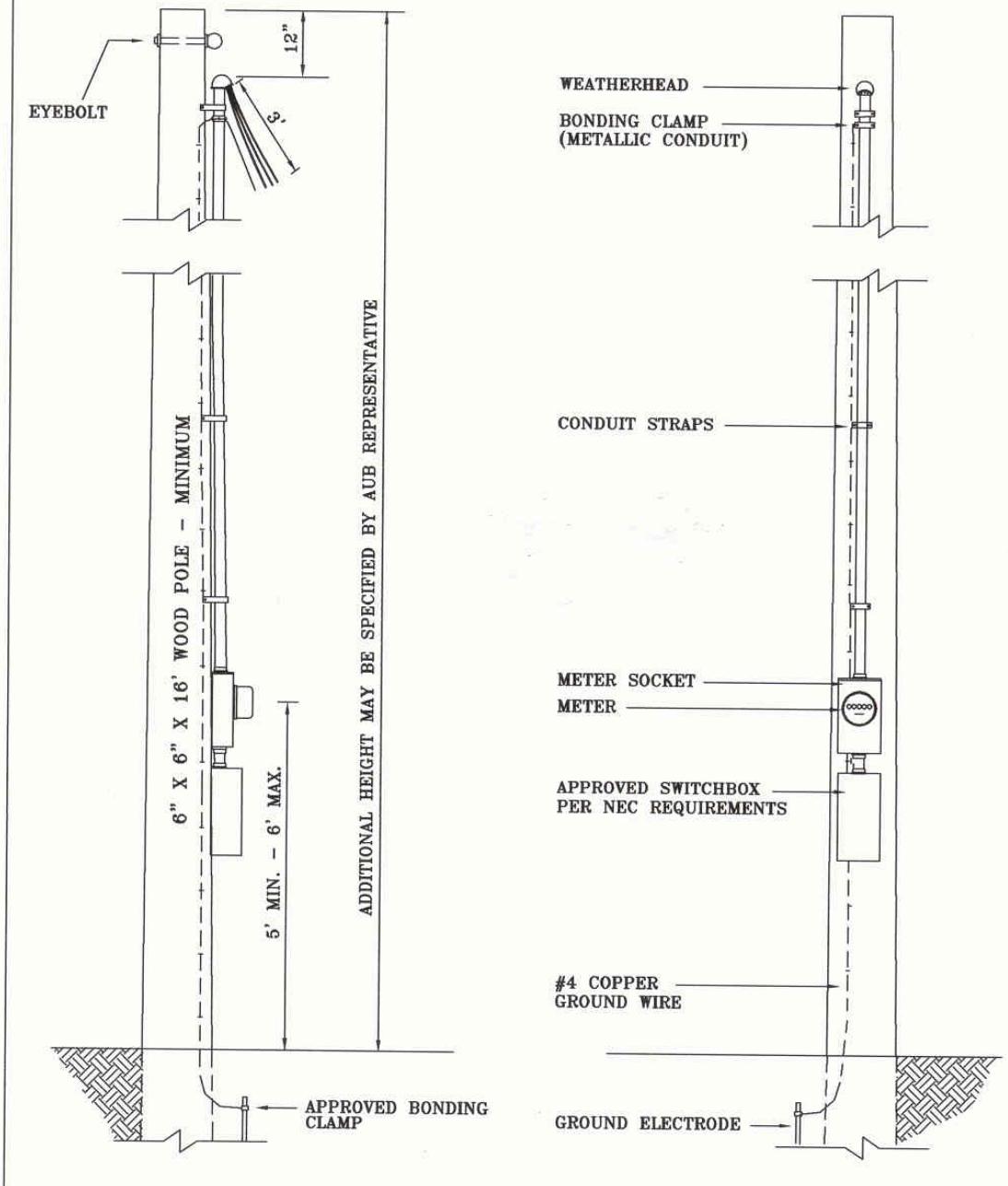
7. The service entrance conductor leads shall extend a minimum of 36 inches from the weatherhead.

8. The grounding electrode shall be a driven rod, and at least 18 inches from the service pole where practical and shall not be set at an angle which would cause the rod to be driven under the building or structure into dry soil. The grounding conductor shall not be "jumped" from the building, or structure, to the electrode but shall go down adjacent to the foundation to not less than 6 inches underground and then over to the electrode. All connections shall be made with approved clamps.

9. The ground conductor shall meet NEC requirements, and shall be one continuous piece from the grounding electrode to the meter base. It shall be installed adjacent to the conduit, under the conduit straps, outside the meter center, and bonded to any rigid conductive conduit(s). (Aluminum, copper-clad aluminum, or steel conductor not acceptable by AUB.)

10. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

11. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer's expense.



APPROVED:	MOBILE HOME SERVICE POLE	ATHENS UTILITIES BOARD ATHENS, TENNESSEE
REVISED DATE:		DWG: OH-4

RESIDENTIAL UNDERGROUND SERVICE

1. All meter center locations shall be determined by the AUB Engineering Department.

2. The meter center shall be mounted securely to a vertical surface such that the meter will not be tilted in any direction, located such that it will not be subjected to accidental damage, and shall have minimum clearances from obstructions of 12 inches on either side, above and below the receptacle and 36 inches in front.

3. The center of the meter shall be no less than 5 feet, or more than 6 feet above finished grade. Grading and/or fill must be completed before the meter will be installed.

4. The meter center shall be utilized as a meter receptacle only, and shall not be utilized for any other purpose – junction box, etc. Exceptions are collar type sleeves approved by the Local Control Authority used for powering other utility services, other utility purpose, (e.g. sewer grinder pumps, surge protection, generator automatic transfer equipment. etc.)

5. The ground conductor shall meet NEC requirements, and shall be one continuous piece from the grounding terminal inside the meter center to the grounding electrode.

6. The grounding electrode shall be a driven rod, and at least 18 inches from the building or structure where practical and shall not be set at an angle which would cause the rod to be driven under the building or structure into dry soil. The grounding conductor shall not be "jumped" from the building, or structure, to the electrode but shall go down adjacent to the foundation to not less than 6 inches underground and then over to the electrode. All connections shall be made with approved clamps.

7. The customer is required to install 3" PVC conduit from the meter center to a point designated by the AUB Engineering Department. This 3" PVC conduit shall be buried at a depth of 30 inches minimum with a continuous length of ¼" pull rope inside.

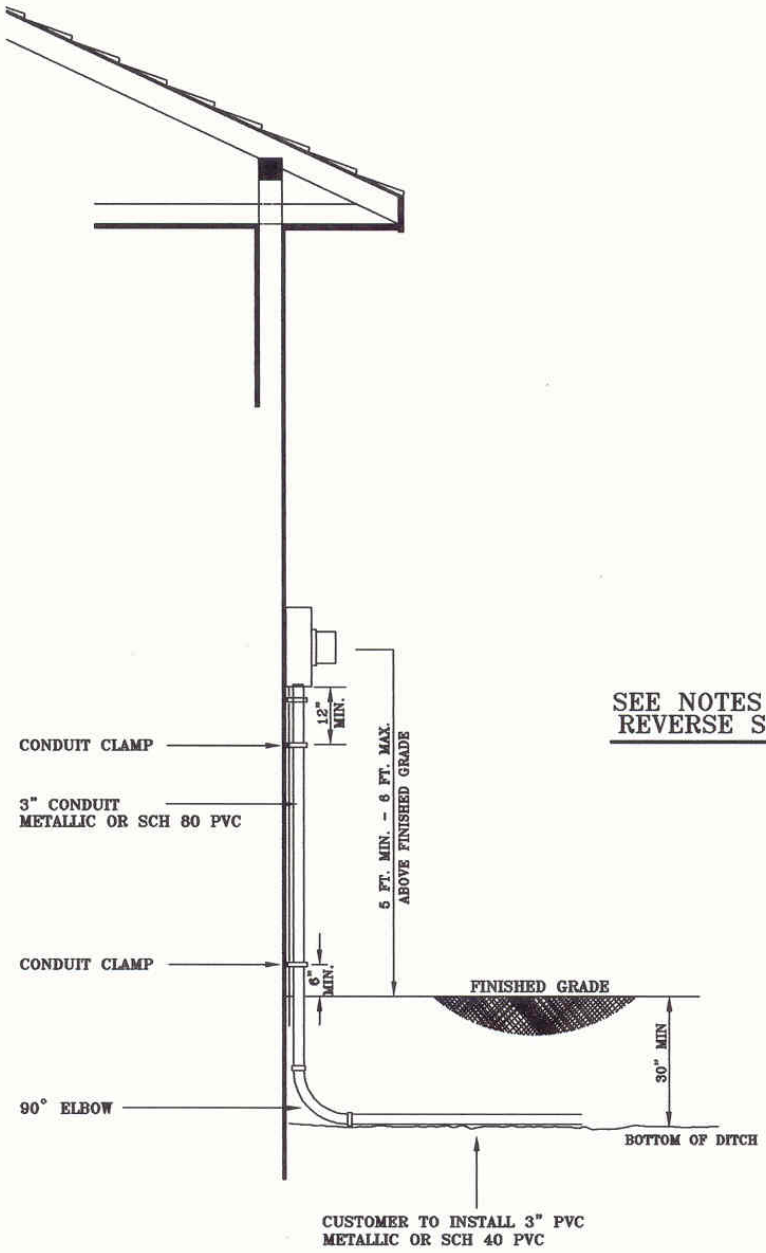
8. All excavation must be completed to final grade in the area in which the 3" PVC conduit is installed.

9. All underground conduit installations shall be inspected prior to back-filling ditch, for proper depth and material used. This will only be done during normal business hours by AUB personnel.

10. AUB will assume ownership of the conduit after the service has been energized. This does not include the ditch in which it lies.

11. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

12. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer's expense.



SEE NOTES ON
REVERSE SIDE

APPROVED	RESIDENTIAL UNDERGROUND SERVICE	ATHENS UTILITIES BOARD ATHENS, TENNESSEE
DATE		DWG. UG-1

MOBILE HOME UNDERGROUND SERVICE POLE

1. The customer shall provide a 6”X6”X10’ service pole with entrance conduit, conductor, meter center and protective devices properly installed.

2. The meter center shall be mounted securely to the wood pole such that the meter will not be tilted in any direction, located such that it will not be subjected to accidental damage, and shall have minimum clearances from obstructions of 12 inches on either side, above and below the receptacle and 36 inches in front.

3. The center of the meter shall be no less than 5 feet, or more than 6 feet above finished grade.

4. The meter center shall be utilized as a meter receptacle only, and shall not be utilized for any other purpose – junction box, etc. Exceptions are collar type sleeves approved by the Local Control Authority used for powering other utility services, or other utility purposes, (e.g. sewer grinder pumps, surge protection, generator automatic transfer equipment, etc.)

5. The customer is required to dig a ditch and install a conduit sized and approved by the AUB Local Control Authority to a point designated by the AUB Engineering Department. This 3” PVC conduit shall be buried at a depth of 30 inches minimum with a continuous length of ¼” pull rope inside.

6. All excavation must be completed to final grade in the area in which the PVC conduit is installed.

7. All underground conduit installations shall be inspected prior to back-filling ditch, for proper depth and material used. This will only be done during normal business hours by AUB personnel.

8. AUB will assume ownership of the conduit after the service has been energized. This does not include the ditch in which it lies.

9. The grounding electrode shall be a driven rod, and at least 18 inches from the service pole where practical and shall not be set at an angle which would cause the rod to be driven under the building or structure into dry soil. The grounding conductor shall not be “jumped” from the building, or structure, to the electrode but shall go down adjacent to the foundation to not less than 6 inches underground and then over to the electrode. All connections shall be made with approved clamps.

10. The ground conductor shall be meet NEC requirements, and shall be one continuous piece from the grounding electrode to the meter center. It shall be installed adjacent to the conduit, under the conduit straps, to the grounding terminal inside the meter center. (Aluminum, copper-clad aluminum, or steel conductor not acceptable by AUB.)

11. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

12. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer’s expense.

RESIDENTIAL UNDERGROUND PRIMARY

1. The primary conduit system will be designed and staked by the AUB Engineering Department.

2. The customer shall install the conduit system as specified by AUB.

3. The customer is required to dig a ditch and install a conduit sized and approved by the AUB Local Control Authority. This conduit shall be buried at a minimum depth of 36 inches with a continuous length of ¼" pull rope inside.

4. The minimum depth must be maintained after the area in which the conduit is installed has been cut or filled to final grade.

5. Conduits terminating at a pole must be schedule 80 PVC and extend 30" to 36" above final grade. Conduits terminating at junction boxes and pad mount transformers must extend 6" to 8" above final grade.

6. All underground conduit installations shall be inspected prior to back-filling ditch, for proper depth and material used. This will only be done during normal business hours by AUB personnel.

7. AUB will assume ownership of the conduit after the service has been energized. This does not include the ditch in which it lies.

8. Each installation shall meet all requirements of the National Electric Code (NEC), National Electric Safety Code (NESC), and any other applicable codes, regulations, or requirements of authorities having jurisdiction as would be required for permanent service.

9. Athens Utilities Board reserves the right to decline service to any installation where the location and/or method of installation have not been approved by an authorized employee of AUB. All costs incidental to adding, relocating, and/or re-routing AUB facilities shall be at the customer's expense.