

SERVICE REQUIREMENTS TO A STRUCTURE STANDARD UNDERGROUND ELECTRIC

100-200 AMP 120/240 Volt Single Phase

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**THE REQUIREMENTS OF THIS SPECIFICATION ARE EFFECTIVE JANUARY 2, 2024 AND SUPERSEDE ALL PREVIOUS PUBLICATIONS

<u>NOTE: BEFORE GEA INSTALLS ANY FACILITIES ON PRIVATE PROPERTY, AN EASEMENT WILL NEED TO BE OBTAINED</u>

SIDE WIRED/OFFSET

COMBINATION METER BASE WITH DEDICATED CHASE FOR

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Structure Wall NOTE: TO SCHEDULE A TRENCH INSPECTION, CALL 423-636-6241. *NOTE: 1 INCH COMMUNICATION DUCT NOT SHOWN IN ITS ENTIRETY FOR CLARITY \bigcirc \bigcirc Coupling Expansion Strap Elbow Coupling Strap (Alternate) \bigcirc **(G** Strap Underneath Warning Tape <u>(C</u> MAX DIST 215 FEET -Ditch Depth 3 Feet Min. \bigcirc (B) 6 Feet Max 4 Feet Min. SIDE CONDUCTORS ON LINE SIDE OF METER BASE *NOTE: NO LOAD 짆 Warning Tape 2-1/2" or 3" and 1" $\overline{\mathbb{T}}$ (B) JTILITY CONDUCTORS (B) **GEA POLE**

Greeneville Energy Authority www.mygea.net 423-636-6200

UG METER BASE: Customer must contact GEA Engineering Department at 423-636-6241 to have maximum of 6 feet above finished grade. Meter base must be grounded per National Electric Code the meter base location determined. GEA may require relocation of the meter base when customer has not complied with this requirement. Meter base must be mounted a minimum of 4 feet and a

<u>CONDUIT:</u> All underground services shall be installed in conduit regardless of soil conditions. **NO** FURNISH AND INSTALL THE UNDERGROUND SERVICE CONDUCTORS TO THE METER BASE. NOTE: ONLY SIDE WIRED/OFFSET METER BASES OR METER BASE COMBINATIONS WITH A DEDICATED CHASE FOR UTILITY SIDE CONDUCTORS WILL BE ACCEPTED FOR GEA TO

- LB'S, LL'S OR LR'S ARE PERMITTED ON THE LINE SIDE OF METER BASE. Customer to furnish and install all conduit from meter base to GEA pole per drawing. Maximum
- 2-1/2 inch or 3 inch UL listed Schedule 40 PVC conduit is required for the electrical service. No underground service length from GEA pole is 215 feet. All joints to be glued.
- is to be installed in close proximity and preferably in contact with the electrical service conduit LOCATION. THE CONDUIT WILL NOT MEET NESC RULE 320B2c FOR MINIMUM SEPARATION NOTE: THE 1 INCH CONDUIT CANNOT BE USED BY ANY OTHER ENTITY DUE TO ITS INSTALLED UL listed Schedule 40 PVC conduit for future communications/meter reading. The 1 inch conduit reducers or mixing of conduit sizes are permitted. Customer must also furnish and install a 1 inch
- GEA WILL NOT ACCEPT HEATED CONDUIT REGARDLESS OF THE METHOD USED. UNDER NO FOOTER AT STRUCTURE. CIRCUMSTANCES WILL GEA ACCEPT CONDUIT OFFSETS TO AVOID NOTCHING/MODIFYING OF
- All Corduits are to be installed above grade and must not exceed 2 inches away from structure the end of all conduits that do not enter an enclosure. bracket is not present during installation, install conduit 8 inches away from surface of pole. Sea wall. Conduit at GEA pole to be installed in contact with GEA stand-off bracket. If GEA stand-off
- ņ anchor the coupling support strap, cut the conduit one foot above grade and install coupling coupling. This prevents conduit from settling during backfill. If there is nothing below grade to COUPLING SUPPORT STRAP/STRAPS: Install strap directly below coupling ensuring contact with support strap. Straps are required every 24 inches for exposed conduit above grade.
- **EXPANSION COUPLING:** An expansion coupling is required for all underground services
- i i same trench as electric as long as a minimum of 12 inches of separation is maintained. Refer to as a minimum of 12 inches of separation is maintained. Communication lines can be installed in the be encased with 3 inches of concrete. Water lines cannot be installed in the trench with electrical a minimum of 3 feet. If rock is encountered and minimum depth cannot be achieved, conduit can Department. Trench must be backfilled before GEA can energize service. "GEA TRENCH REQUIREMENTS" located at <u>www.mygea.net</u> or obtain a copy from GEA Engineering not utilized, a minimum of 5 feet of separation is required. Water lines can cross GEA lines as long lines unless installed by "shelf method" as specified by GEA drawing JT1-722. If "shelf method" was TRENCH 3 FEET DEEP MINIMUM: Customer to open and close service trench. Depth of trench to be
- ... of inspection. GEA will not install facilities unless warning tape is present. To schedule a trench vertical elbows. The warning tape can be in the trench or on the ground beside the trench at time WARNING TAPE AND TRENCH INSPECTION: Warning Tape must be installed and secured to all inspection, contact GEA Engineering Department at 423-636-6241.
- ٩ conduit, use 5.75 inch radius (standard) elbows. of 3 elbows (one at pole, one at structure and one in trench) can be used. For the communication structure. 36 inch radius 90-degree elbows must be used for horizontal turns in trench. Maximum ELBOW: Must use at least 24 inch radius, 90-degree elbows at GEA pole and at meter base on

REQUIREMENTS TO A STRUCTURE". TO THE GEA SPECIFICATION "NON-STANDARD UNDERGROUND ELECTRIC SERVICE UNDERGROUND CONDUCTORS TO METER BASE. IF THE REQUIREMENTS CANNOT BE MET, REFER NOTE: ALL REQUIREMENTS LISTED ABOVE MUST BE MET FOR GEA TO FURNISH AND INSTALL