

- All conduits, regardless of type, must be securely fastened to the temporary pole.
- Customer is responsible for contacting the City of Cullman Building Department to schedule inspection prior to covering. Installation must be approved by the City of Cullman Building Department prior to service connect.

# **City of Cullman Electrical Service Installation Requirements**

Building Inspection Department  
256-775-7203

Cullman Power Board  
256-734-2343

## Requirements for Underground Temporary Service

The requirements and standards outlined in this document have been developed through the cooperation of the City of Cullman Building Department and the Cullman Power Board.

The information contained herein is intended to inform customers, electricians, and builders operating in the City of Cullman of the requirements to obtain electric service. It is not intended to replace the National Electrical Code (NEC). Any conflict between this document and the NEC shall default to the NEC unless specifically amended by this document.

This document shall not serve as an exemption to compliance with the currently adopted edition of the NEC. Contact the City of Cullman Building Department to verify the current code edition.

**Customer shall be responsible for contacting the City of Cullman Building Department and the Cullman Power Board prior to design and installation of electrical services.**

Customers served by the Cullman Electric Cooperative (Co-op) may contact their main office at 256-737-3200 or visit their website at <https://cullmanec.com/construction-forms> for more information.

**Contact the City of Cullman Building Department and the Cullman Power Board before planning or installing any underground services.**

**The location of service must be approved in advance by the City of Cullman Building Department and the Cullman Power Board.**

**Any deviation shall be approved by the Cullman Power Board prior to installation.**

**Customer will be charged for all labor and materials necessary to provide service at alternate location.**

### **Customer Furnish/Install:**

- Preservative-treated pole with a minimum nominal dimension of four inches (4"). The pole must be embedded a minimum of two feet (2') in ground with a minimum of four feet (4') exposed above ground and no more than three feet (3') from transformer.
- Meter base with a minimum ampacity of 60 amps. The meter base must be installed so that the center of the meter base is between four feet and five feet (4'-5') above finished grade.
- Conductors of type and size required by the NEC. Customer must make all connections in the meter base and leave five feet (5') of wire extending beyond end of conduit for the Cullman Power Board to make connection in the transformer.
- Conduit must be of sufficient length to reach the Cullman Power Board facilities, and customer must furnish lock nuts to securely fasten conduit to transformer.
- All 120-volt and 240-volt circuits require GFCi protection.

between four feet and five feet (4'-5') above finished grade.  
Customer must make all connections in the meter base.

- Weatherproof disconnect with properly sized fuses or breakers. A weatherproof panel (main lugs only) with not more than 6 breakers may be installed. If panel has no more than 6 disconnects, a main breaker is not required.
- All 120-volt and 240-volt circuits require GFCi protection.
- Customer is responsible for contacting the City of Cullman Building Department to schedule inspection. Installation must be approved by the City of Cullman Building Department prior to service connect.

**Cullman Power Board Furnish/Install:**

- Overhead service drop conductors from Cullman Power Board's facilities to top of weatherhead.

## General Requirements

Effective July 1, 1995, the Cullman Power Board ceased to provide meter bases to customers. Failure to install an approved meter base will result in service not being connected until an approved meter base has been installed and inspected/approved by the City of Cullman Building Department. Any service having a phase-to-ground voltage greater than 120 volts or larger than 400 amps single-phase or poly-phase will be metered by means of instrument transformers. This metering will be provided and installed by the Cullman Power Board after payment of an aid-to-construction charge of six hundred fifty dollars (\$650) has been received by the Cullman Power Board. Any primary metering will be at the discretion of the Cullman Power Board and aid-to-construction charges will be determined on an individual basis.

Contact the Cullman Power Board for information on the Aid to Construction policy.

Meter base shall be listed and labeled by an approved third-party agency. (e.g., UL)

“Bolt-in” type meter bases are not permitted.

The grounding electrode conductor shall terminate at the meter enclosure. Exception: Where a CT meter is installed, the grounding electrode conductor must terminate at the service disconnect enclosure. The grounding electrode system shall be installed per the NEC.

As defined by the NEC, the serving utility provider specifies the location of the service point based on the conditions of service. Per the Cullman Power Board, the service point is as follows:

- For an overhead service drop, the service point is at the top of the weatherhead.
- For an underground service lateral, the service point is at the meter enclosure.

A building or other structure served shall be supplied by only one service. Multiple services may be permitted in accordance with the NEC. Other exceptions may apply to specific occupancies such as, but not limited to Duplexes, Triplexes, Apartments, Townhouses, etc. Customer is responsible for contacting the City of Cullman Building Department and the Cullman Power Board prior to installation.

Accessory structures, swimming pools, fences, etc. shall not be located within utility easements.

Customer is responsible for securing all necessary permits prior to beginning work.

Customer is responsible for contacting the City of Cullman Building Department to schedule inspections prior to covering or concealing work. Customer is responsible for scheduling a "Green Tag" inspection through the City of Cullman Building Department prior to requesting power connect for temporary or permanent power.

## **Requirements for Overhead Temporary Service for Construction Purposes**

**Contact the City of Cullman Building Department and the Cullman Power Board before planning or installing any overhead services.**

**The location of service must be approved in advance by the City of Cullman Building Department and the Cullman Power Board.**

**Any deviation shall be approved by the Cullman Power Board prior to installation.**

**Customer will be charged for all labor and materials necessary to provide service at alternate location.**

### **Customer Furnish/Install:**

- Preservative-treated wood pole with a minimum nominal dimension of six inches (6"). If a 4x4 is used, it must be braced in three (3) directions. Pole shall not be installed more than fifty feet (50') from the nearest power source belonging to the Cullman Power Board.
- Pole must be embedded a minimum of three feet (3') in ground with ten feet (10') clearance above ground where service is not subject to vehicular traffic, and fifteen feet (15') clearance above ground where service is subject to vehicular traffic.
- A secure means of attachment point near the top of pole.
- Conductors, conduit, and support devices to top of weatherhead.
- A minimum of twenty-four inches (24") of service conductor for making connections to the Cullman Power Board's service drop.
- SE cable may be installed in lieu of a weatherhead. Cable must be installed/supported per the NEC.
- Meter base with a minimum ampacity of 60 amps. The meter base must be installed so that the center of the meter base is

secured by guy wires attached to framing member/s of structure.

**Cullman Power Board Furnish/Install:**

- Overhead service drop conductors from Cullman Power Board's facilities to top of weatherhead.

**Requirements for Installation of Three-Phase  
Underground Primary**

**Customer Furnish/Install:**

- Furnish and install five-inch (5") Schedule 40 PVC gray electrical conduit(s).
- One conduit is required for loop feed systems
- Two conduits are required for radial feed systems
- All elbows shall be schedule 80 PVC.
- Conduit(s) must extend a minimum of five feet (5') above finished grade at the riser pole belonging to the Cullman Power Board.
- Conduit(s) must be attached to the riser pole using stand-off bracket. (furnished by the Cullman Power Board)
- Conduit(s) must be buried forty-two inches (42") deep.
- In the event of rock, depth may be reduced four inches (4") for every two inches (2") of concrete cover. Concrete must be dyed a red color for identification.
- A maximum depth reduction of twelve inches (12") will be allowed with a minimum concrete cover of six inches (6"). Any reduction in depth must be approved by the Cullman Power Board.
- Two runs of plastic warning tape (furnished by the Cullman Power Board) must be installed in trench. The first run will be one foot (1') above the conduit; the second run will be one foot (1') below finished grade.
- A pull string of poly composition shall be installed in all conduits.
- All phases of trenching, conduit installation, and backfill must be inspected by the Cullman Power Board, or cable will not be installed. Customer is responsible for contacting the Cullman Power Board prior to beginning any conduit installation to establish an inspection schedule.
- The Cullman Power Board must approve all routing of conduit(s) and transformer placement before starting project. The Cullman Power Board must approve any revisions. Customer is

responsible for any costs incurred by the Cullman Power Board for any alternate routing of conduit or transformer placement.

- Provide the Cullman Power Board with a marked-up copy of the site plans showing all primary and secondary conduit routing, or cable will not be installed.
- Install any sectionalizing cabinets or other equipment deemed necessary by the Cullman Power Board. This equipment will be furnished by the Cullman Power Board.
- Form and pour all transformer pads required for the project. Customer must contact the Cullman Power Board for pad specifications on each individual transformer.

#### **Cullman Power Board Furnish/Install:**

- Furnish and install all primary (7200 volt) cable.
- Furnish and install all transformers.
- Furnish warning tape, sectionalizing cabinets or other equipment required by Cullman Power Board except what is specified above to be provided by customer.
- Terminate all customer installed secondary conductors inside the transformers.

#### **General Notes:**

- All conduits must be in place before transformer pad is installed.
- Transformer pad must be level and installed to the specifications provided by the Cullman Power Board.
- Transformer pad shall be installed on a six-inch (6") base of crusher run gravel. Soil under pad must be compacted. Transformer must remain level after installation.
- Once pad is installed, conduits must be cut off at four to eight inches (4 - 8") above gravel.
- All conduits and conductors must be marked/labeled as to which meter base they provide service to. In the case of multiple meter bases from the same transformer, the meter bases must be labeled in a permanent fashion, showing suite or tenant number, before transformer is installed.

## **Requirements for Overhead Permanent Service**

**Contact the City of Cullman Building Department and the Cullman Power Board before planning or installing any overhead services.**

**The location of service must be approved in advance by the City of Cullman Building Department and the Cullman Power Board.**

**Meter base must be installed on the side of structure nearest existing facilities belonging to the Cullman Power Board.**

**Any deviation shall be approved by the Cullman Power Board prior to installation.**

**Customer will be charged for all labor and materials necessary to provide service at alternate location.**

#### **Customer Furnish/Install:**

- Conductors, conduit, and support devices to top of weatherhead.
- Clearance above ground must be maintained as per the NEC.
- The meter base must be installed so that the center of the meter base is between four feet and five feet (4'-5') above finished grade.
- Meter bases shall be secured to the wall using a minimum of four stainless steel fasteners with a minimum diameter of one quarter inch (1/4").
- Clear working space at meter shall comply with the NEC as it pertains to equipment.
- In cases where conduit does not extend through roof, any device used to dead-end the service drop must be approved by the Cullman Power Board prior to installation. The attaching device shall be securely bolted through framing member of structure. Screw-in type devices are not permitted.
- If the point of the Cullman Power Board's service attachment is more than three feet (3') above the roof, the mast must be

Concrete must be dyed to a red color for identification. Any reduction in depth must be approved by the City of Cullman Building Department prior to installation.

- Customer shall furnish and install a warning ribbon in trench per the NEC.
- Customer must connect to existing service stub-out at transformer.
- Customer must furnish and install an approved meter base designed for underground service.
- The meter base must be installed so that the center of the meter base is between four feet and five feet (4'-5') above finished grade.
- Clear working space at meter shall comply with the NEC as it pertains to equipment.
- For commercial services, the customer must furnish and install conductors. Conductor size and type shall be as required by the NEC.
- Customer shall leave a three-foot (3') tail on all services pulled into the transformer.
- No conductor larger than 500 MCM will be accepted. For services requiring larger conductors, contact the Cullman Power Board and the City of Cullman Building Department.
- The customer is responsible for contacting the City of Cullman Building Department to schedule inspection prior to covering. Installation must be approved by the City of Cullman Building Department prior to service connect.

**Cullman Power Board Furnish/Install:**

- For residential services, the Cullman Power Board will furnish and install conductors.

- Customer must contact the Cullman Power Board concerning metering of services.
- Customer must leave a ten-foot (10') tail on all conductors pulled into the transformer.
- No other utilities shall be stubbed up within ten feet (10') of the front or two feet (2') from any other side of the pad, or transformer will not be installed.
- No vegetation, other than grass, or other obstructions will be allowed within ten feet (10') of the front or five feet (5') of any other side of the pad, or transformer will not be installed.
- If any of these conditions are not met, the Cullman Power Board reserves the right to disconnect and remove any and all equipment belonging to Cullman Power Board until the condition or problem is corrected.

## **Requirements for Installation of Single-Phase Underground Primary**

### **Customer Furnish/Install:**

- Furnish and install 3" Schedule 40 PVC gray electrical conduit.
- All elbows shall be schedule 80 PVC standard radius.
- Primary conduit shall be buried forty-two inches (42") deep.
- In the event of rock, depth may be reduced four inches (4") for every two inches (2") of concrete cover. Concrete must be dyed to a red color for identification.
- A maximum depth reduction of twelve inches (12") will be allowed with a minimum concrete cover of six inches (6"). Any reduction in depth must be approved by the Cullman Power Board.
- Two runs of plastic warning tape (furnished by the Cullman Power Board) must be installed in trench. The first run will be one foot (1') above the conduit; the second run will be one foot (1') below finished grade.
- A pull string of a poly composition shall be installed in all conduits.
- All phases of trenching, conduit installation, and backfill must be inspected by the Cullman Power Board, or cable will not be installed. Customer will be responsible for contacting the Cullman Power Board prior to beginning any conduit installation to establish an inspection schedule.
- The Cullman Power Board must approve all routing of conduits and transformer placement before starting project. The Cullman Power Board must approve any revisions. Customer will be responsible for any costs incurred by the Cullman Power Board for any alternate routing of conduit or transformer placement.
- Provide the Cullman Power Board with a marked-up copy of the site plans showing all primary and secondary conduit routing, or cable will not be installed.
- Install any sectionalizing cabinets or other equipment deemed necessary by the Cullman Power Board. This equipment will be furnished by the Cullman Power Board.

## **Requirements for Underground Service from Pad-Mounted Transformer**

**Contact the City of Cullman Building Department and the Cullman Power Board before planning or installing any facilities for underground service.**

**The location of meter base and service must be approved in advance by the City of Cullman Building Department and the Cullman Power Board.**

**Meter base must be installed on the side of structure nearest existing facilities belonging to the Cullman Power Board.**

**Any deviation shall be approved by the Cullman Power Board prior to installation.**

**Customer will be charged for all labor and materials necessary to provide service at alternate location.**

### **Customer Furnish/Install:**

- Customer must furnish and install Schedule 40 PVC electrical conduit.
- No more than three (3) elbows are allowed. All elbows must be schedule 80 PVC.
- Except as noted above, all conduits shall be gray schedule 40 PVC electrical conduit that complies with NEMA TC-2 (conduit), TC-3 (fittings), and ANSI/UL-651. Each piece of conduit or fitting must have a UL label and the manufacturer's name molded or stamped on the piece.
- The minimum size conduit shall be three inches (3") unless a larger diameter is required by the NEC.
- Bottom of trench must be twenty-four inches (24") below finished grade. If rock is encountered during trenching, conduit depth may be reduced four inches (4") for every two inches (2") of concrete cover. The maximum depth reduction allowable is twelve inches (12") with six inches (6") of concrete cover.

Concrete must be dyed to a red color for identification. Any reduction in depth must be approved by the City of Cullman Building Department prior to installation.

- Customer shall furnish and install a warning ribbon in trench per the NEC.
- Conduit must extend at least five feet (5') above finish grade.
- Conduit must be attached to the pole using stand-off brackets. Stand-off brackets are furnished by the Cullman Power Board.
- Customer must furnish and install a meter base designed for underground service.
- The meter base must be installed so that the center of the meter base is between four feet and five feet (4'-5') above finished grade.
- Clear working space at meter shall comply with the NEC as it pertains to equipment.
- For commercial services, the customer must furnish and install conductors. Conductor size and type shall be as required by the NEC.
- Customer must furnish and install conductor of the size and type required by the NEC from the pole to the meter base.
- No conductor larger than 500 MCM will be accepted. For services requiring larger conductors, contact the Cullman Power Board and the City of Cullman Building Department.
- The customer is responsible for contacting the City of Cullman Building Department to schedule inspection prior to covering. Installation must be approved by the City of Cullman Building Department prior to service connect.

#### **Cullman Power Board Furnish/Install:**

- For residential services, the Cullman Power Board will furnish and install conductors.
- Stand-off brackets are furnished by the Cullman Power Board.

- Install transformer pads (furnished by the Cullman Power Board) per the attached specifications.
- Extend conduit a minimum of five feet (5') above finished grade at the riser pole belonging to the Cullman Power Board. Conduits must be attached to pole using stand-off brackets. (furnished by the Cullman Power Board)

#### **Cullman Power Board Furnish/Install:**

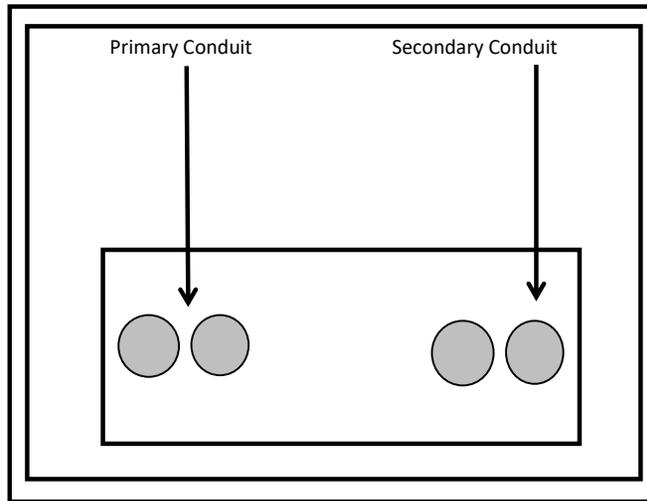
- Furnish and install all primary (7200 volt) cable.
- Furnish and install all transformers
- Furnish warning tape, sectionalizing cabinets, transformer pads, and other equipment required by the Cullman Power Board except what is specified above to be provided by the customer.

#### **General Notes:**

- All conduits must be in place before transformer pad is installed.
- Transformer pad must be level and installed to the specifications provided by the Cullman Power Board.
- Transformer pad shall be installed on a six-inch (6") base of crusher run gravel. Soil under pad must be compacted. Transformer must remain level after installation.
- Once pad is installed, conduits must be cut off at four to eight inches (4 - 8") above gravel.
- Conduits must be installed in the transformer pad as shown in illustration or the transformer will not be set.
- All conduits and conductors shall be marked/labeled as to which meter base they provide service to. In the case of apartments, the meter bases must also be labeled in a permanent fashion showing apartment and building number.
- No other utilities shall be stubbed up within ten feet (10') of the front or two feet (2') of any other side of the pad, or the transformer will not be installed.
- No vegetation, other than grass, or any other obstruction will be allowed within ten feet (10') of the front or five feet (5') of any other side of the pad, or transformer will not be installed.

- If any of these conditions are not met, the Cullman Power Board reserves the right to disconnect and remove any and all equipment belonging to the Cullman Power Board until the condition or problem is corrected.
- No conductor larger than 500 MCM shall be pulled into a transformer pad. For services requiring large conductors, contact the Cullman Power Board.

### Single Phase Transformer Pad



Front of Pad  
Overhead View

Top of pad shall be 12" above finish grade

## Requirements for Underground Service from Pole

**Contact the City of Cullman Building Department and the Cullman Power Board before planning or installing any facilities for underground service.**

**The location of meter base and service must be approved in advance by the Cullman Power Board.**

**Meter base must be installed on the side of structure nearest existing facilities belonging to the Cullman Power Board.**

**Any deviation shall be approved by the Cullman Power Board prior to installation.**

**Customer will be charged for all labor and materials necessary to provide service at alternate location.**

#### Customer Furnish/Install:

- Customer must furnish and install Schedule 40 PVC electrical conduit.
- No more than three (3) elbows are allowed. All elbows must be schedule 80 PVC.
- Except as noted above, all conduits shall be gray schedule 40 PVC electrical conduit that complies with NEMA TC-2 (conduit), TC-3 (fittings), and ANSI/UL-651. Each piece of conduit or fitting must have a UL label and the manufacturer's name molded or stamped on the piece.
- The minimum size conduit shall be three inches (3") unless a larger diameter is required by the NEC.
- Bottom of trench must be twenty-four inches (24") below finished grade. If rock is encountered during trenching, conduit depth may be reduced four inches (4") for every two inches (2") of concrete cover. The maximum depth reduction allowable is twelve inches (12") with six inches (6") of concrete cover.