TO REPORT OUTAGES

24-hour automated outage reporting
(806) 741-0111 for Lubbock local
(888) 741-0111 toll free

Information required for prompt service:

1. Name on your SPEC account
   ______________________________________________

2. Meter Number
   ______________________________________________

3. Account Number
   ______________________________________________

FOR NEW SERVICE/BILLING INQUIRIES
M-F 8am to 5pm • (806) 775-7766

FOR NEW SERVICE/BILLING INQUIRIES
After 5pm and on weekends • (806) 775-7732

AUTOMATED ACCOUNT INQUIRY
(806) 775-7811

www.SPEC.coop
Our Web site contains member-specific information on a variety of topics. Go online for more details.
Foreword:

This handbook has been prepared for the convenience of our members, electrical contractors, builders and any others engaged in providing electrical wiring service in order to acquaint the reader with South Plains Electric Cooperative’s requirements for electric meter installations. This handbook will establish the Cooperative’s requirements for new electric service and meter installations, for relocating or modifying meter installations and upgrading the service capacity. The handbook contains specifications for both overhead and underground delivery.

The information presented in this handbook is not intended to conflict in any way with the National Electrical Code, any city or county ordinances, or any state rules. Some of the service requirements, as presented, are the result of past experience and deemed necessary to insure safe, adequate and reliable service for the member. If this handbook does not cover a particular metering situation, please contact one of our offices listed below before proceeding with your work.

Additional copies of this booklet may be obtained at any of the Cooperative’s offices.

Northern District, 110 N I-27, Lubbock
Southern District, 7210 82nd St., Lubbock
   (806) 775-SPEC (7732)
Dickens Division, FM 836, Spur
   (806) 271-3311
Gate City Division, 1900 C NW, Childress
   (940) 937-2565
INDEX

A. General Information ............................................. 6
B. Think Safety! ......................................................... 6
C. Number of Services .............................................. 7
D. Grounding ........................................................... 7
E. Equipment Requiring Individual Consideration .. 8
F. Inspection ............................................................ 8
G. Meter Tampering ..................................................... 9
H. Types of Service ...................................................... 9
   1. Single Phase
      a. 120-volt, 2-wire service............................. 9
      b. 120/240-volt, 3-wire service ................... 10
      c. 240/480-volt, 3-wire service.................... 10
   2. Three Phase Service
      a. 120/240-volt, 4-wire, delta service........ 11
      b. 480-volt, 4-wire service .......................... 11
      c. 120/208-volt or 277/480-volt, 4-wire, wye connected service ....................................... 12
      d. 240 or 480-volt, 3-wire service, delta connected service ........................................... 13

Table 1-A
Conductor Sizing................................................... 14

Table 1-B
Conduit Service Entrance Specifications........... 15
I. Building a Meter Loop ........................................ 16

1. Irrigation Service
   a. Pedestal to submersible pump ............... 16
   b. Pedestal to above ground pump .......... 17
   c. Pedestal to towable pivot ................. 18
   d. Pedestal to stationary pivot ............. 19
   e. Service to above ground pump or
      submersible ..................................... 20

2. Overhead Service
   a. Typical single phase temporary meter ..... 21
   b. Underground group metering ............. 22
   c. Overhead group metering .................. 23
   d. Minimum clearances ....................... 24-25
   e. Meter remote—under eaves ............... 26
   f. Meter remote—through eaves ............ 27
   g. Meter base on building—through eaves ... 28
   h. Meter base on building—under eaves ..... 29
   i. To mobile home or meter pole with
      underground ................................... 30

3. Underground Service
   a. Meter base on building ..................... 31
   b. Metered remote ................................ 32

4. Overhead Service
   a. 2-way (in and out) loop .................... 33
   b. 2-way (in and out) loop .................... 34
A. GENERAL INFORMATION

The following information has been assembled so those engaged in electrical wiring or the installation of metering equipment might comply with the service requirements of South Plains Electric Cooperative. Members and/or contractors planning new construction, altering, or rewiring existing facilities should become familiar with the handbooks requirements. If you determine after reading the handbook that your situation is not covered, please contact the Cooperative for better direction before proceeding.

South Plains Electric Cooperative will make every reasonable effort to provide our members with safe, reliable, adequate electric service. To accomplish this goal, the Cooperative should be contacted in advance of your required service date. Service availability may vary within our service area. It is always best to confer with the local office before beginning your work. It is the Cooperative’s recommendation that additional capacity be provided whenever possible for future use. Permanent residential services shall have a minimum installed capacity of 100 amperes at 120/240 volts, single phase.

The information in this handbook refers to service requirements for lighting and power installations at secondary voltages. Services requiring primary voltages are subject to contractual agreement between the member and the Cooperative and the metering requirements will be determined at that time.

B. THINK SAFETY!

Before you dig — Call (800)344-8377. Texas state law requires that you call before you dig or disturb the ground. With 48-hour advance notice, each involved utility will mark the location of their facilities for your safety.
Warning — It is unlawful for you to operate any equipment within ten (10) feet of a high voltage line. If you must work close to any of the Cooperative’s electrical lines, please contact your local office. Your Cooperative will assist you in performing your needed work safely.

Look Up! We further recommend that you do not stack any irrigation pipe under electric lines and certainly be aware of power lines when erecting or working on antenna towers. Many of our members operate farming equipment near or under our lines, please be mindful of the clearance requirements for this equipment as you perform various functions in the field and travel into and out of the fields.

C. NUMBER OF SERVICES

The Cooperative will normally connect only one set of service conductors to a home or building. The member will provide for metering in a location acceptable to the Cooperative.

Large apartment buildings, shopping centers and industrial complexes may require special applications of the National Electrical Code. The Cooperative should be contacted during the design stage for these projects to obtain guidance and agreement on the interpretations of these special metering considerations.

D. GROUNDING

All service systems operating below 600 volts shall contain a grounded neutral or a grounded phase conductor used as a circuit conductor in the system. The neutral or grounded phase conductor shall be grounded at the supply transformer and shall be connected to the grounding terminal in the service entrance equipment provided by the member. The
NEC requires an adequate grounding system as part of the wiring with a grounding conductor tied to the service entrance raceway and to the neutral terminal in the disconnecting means. All of these connections to the grounding conductor shall be accessible for inspection by Cooperative personnel.

Members requiring an ungrounded service for operation of a ground detection system shall make their request in writing. If supplying an ungrounded service results in additional costs to the Cooperative, the additional cost may be passed on to the member.

E. EQUIPMENT REQUIRING INDIVIDUAL CONSIDERATION

Providing service for power consuming equipment such as welders, large motors, high frequency induction furnaces, or sensitive electronic equipment may require individual consideration and agreement by the Cooperative. By design, the Cooperative can minimize the emission or distortions on the electrical system. One member will not be permitted to affect the service quality of another member. By understanding the equipment’s power requirements in these special situations, the Cooperative can make certain that each member can coexist with their neighbor.

Sometimes, the equipment may require very stable voltage, system isolation, or uninterrupted continuity of service. The Cooperative, by agreement, may be able to supply service level requirements that are above the normally acceptable levels. The Cooperative desires to assist its members with any special equipment problems especially during the planning and design stages of the projects.

F. INSPECTION

The wiring shall be installed in accordance with
the latest requirements of the National Electrical Code (NEC) and any state or county or municipal inspection requirements as may be in force at the time the installation is completed.

All wiring and other electrical equipment will be installed, operated, and maintained by the member at all times in conformity with good electrical practice and the requirements of the regional regulatory authority. The inspecting authority will leave an inspection tag on the member’s service entrance equipment to notify the Cooperative that the wiring is approved for service connection. In areas where there is no inspection authority, the Cooperative’s personnel will inspect the service entrance for compliance to the NEC. The Cooperative does not assume any responsibility for the design, operation, or condition of the member’s wiring past the service entrance equipment.

G. METER TAMPERING

The metering equipment belongs to the Cooperative and must not be disconnected, removed or relocated except by authorized Cooperative personnel. The Cooperative shall seal all meters and meter installation equipment. Law forbids tampering with the meter or with conductors carrying metered current. If it is necessary to gain access to any metering equipment that has been sealed by the Cooperative, the member or his contractor shall contact the service department for inspection and resealing of the meter after the work has been completed.

H. TYPES OF SERVICE

1. Single Phase
   a. 120-volt, 2-wire service

This type of service may be used to serve a small electrical load not having any 240-volt requirements
such as a sign, fence charger, or fireworks stand. The maximum meter capacity is 60 amperes.

b. 120/240-volt, 3-wire service
This type of service is the most typical electrical service and may be used to serve loads such as a residence, ranch or farming operation, mobile home, hunting cabin, domestic well, or small commercial office building. Normally, the service capacity is 100 or 200 amperes. If the service requirements are 400 amperes or greater, contact your local office for special metering instructions.

c. 240/480-volt, 3-wire service
This is a special service normally used by the Texas Highway Department for highway lighting.
2. Three Phase Service
   a. 120/240-volt, 4-wire, delta service
      This is the most common three phase electric service and is used for commercial, home, and some irrigation loads. Members use this voltage for small three phase loads with some lighting requirements. This service voltage works well in overhead distribution systems; however, it is not available in underground distribution applications.

   **Domestic Service**

   **120/240-volt, 3-phase, 4-wire**

   ![Diagram of 120/240-volt, 3-phase, 4-wire Domestic Service]

   **NOTE:**
   - 4 WIRE SERVICE 200 AMP
   - A PHASE–GROUND 120 V
   - B PHASE–GROUND 120 V
   - C PHASE–GROUND 208 V
   - PHASE–PHASE 240 V
   - BASE MUST BE 7 TERMINAL

   b. 480-volt, 4-wire service
      It is common on irrigation and oil field applications. This is a common electric service for irrigation pivot system with wells and/or booster pumps. It is also available for oil wells and industrial loads.

   **Irrigation Service**

   **480-volt, 3-phase, 4-wire**

   ![Diagram of 480-volt, 3-phase, 4-wire Irrigation Service]

   **NOTE:**
   - 4 WIRE SERVICE 200 AMP
   - A PHASE–GROUND 240 V
   - B PHASE–GROUND 240 V
   - C PHASE–GROUND 416 V
   - PHASE–PHASE 480 V
   - BASE MUST BE 7 TERMINAL
c. 120/208-volt or 277/480-volt, 4-wire, wye connected service

This wye connected electrical system is used where there is large lighting load and three phase motor load. This system permits the balancing of the lighting load across all three phases of the system. This type of service is used in schools, churches, commercial complexes and industrial parks. This is the preferred service for underground applications.

120/208 VOLT, 4 WIRE, 3 PHASE WYE

NOTE: 4 WIRE SERVICE 200 AMP
A PHASE-GROUND 120 V
B PHASE-GROUND 120 V
C PHASE-GROUND 120 V
PHASE-PHASE 208 V
BASE MUST BE 7 TERMINAL

277/480 VOLT, 4 WIRE, 3 PHASE WYE

NOTE: 4 WIRE SERVICE 200 AMP
A PHASE-GROUND 277 V
B PHASE-GROUND 277 V
C PHASE-GROUND 277 V
PHASE-PHASE 480 V
BASE MUST BE 7 TERMINAL
d. 240 or 480-volt, 3-wire service, delta connected service

This is a common electric service for irrigation pivot system with wells and/or booster pumps. It is also available for oil wells and industrial loads. This is a restricted use service.

*All New Installations Shall Be 4 Wire*
### Table 1-A
**Conductor Sizing**

<table>
<thead>
<tr>
<th>Main Fuse or Circuit Breaker Amp Rating</th>
<th>Minimum Size Conductors</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Copper</td>
<td>Aluminum</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Line</td>
<td>Neut.</td>
<td>Line</td>
</tr>
<tr>
<td>60</td>
<td>6</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>100</td>
<td>2</td>
<td>4</td>
<td>1/0</td>
</tr>
<tr>
<td>150</td>
<td>1/0</td>
<td>2</td>
<td>2/0</td>
</tr>
<tr>
<td>200</td>
<td>3/0</td>
<td>1/0</td>
<td>4/0</td>
</tr>
</tbody>
</table>

**NOTE:** Table 1-A is intended as a guide only and represents only minimum capacities. It is not conclusive for all installations.
Table 1-B  
Conduit Service Entrance Specifications  
(Applicable to service entrances on dwellings or other buildings and to service entrances on poles supplying overhead or underground feeders.)

<table>
<thead>
<tr>
<th>Maximum Size Fuse or Breaker</th>
<th>Insulated Wire Size Copper</th>
<th>Insulation Type</th>
<th>Number of Insulated Wires</th>
<th>Minimum Conduit Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>6</td>
<td>TW</td>
<td>2</td>
<td>¾”</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td></td>
<td>4</td>
<td>1”</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td></td>
<td>2</td>
<td>1”</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>TW*</td>
<td>4</td>
<td>1¼”</td>
</tr>
<tr>
<td>100</td>
<td>2</td>
<td>THW*</td>
<td>2</td>
<td>1¼”</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>2</td>
<td>1½”</td>
</tr>
<tr>
<td></td>
<td>1/0</td>
<td>THW*</td>
<td>4</td>
<td>1½”</td>
</tr>
<tr>
<td>150</td>
<td>1/0</td>
<td>THW*</td>
<td>2</td>
<td>1½”</td>
</tr>
<tr>
<td></td>
<td>1/0</td>
<td></td>
<td>4</td>
<td>2”</td>
</tr>
<tr>
<td></td>
<td>2/0</td>
<td></td>
<td>2</td>
<td>1½”</td>
</tr>
<tr>
<td></td>
<td>2/0</td>
<td></td>
<td>4</td>
<td>2”</td>
</tr>
<tr>
<td>200</td>
<td>3/0</td>
<td>THW*</td>
<td>2</td>
<td>1½”</td>
</tr>
<tr>
<td></td>
<td>3/0</td>
<td></td>
<td>4</td>
<td>2”</td>
</tr>
<tr>
<td></td>
<td>4/0</td>
<td></td>
<td>2</td>
<td>2”</td>
</tr>
<tr>
<td></td>
<td>4/0</td>
<td></td>
<td>4</td>
<td>2½”</td>
</tr>
</tbody>
</table>

*RHW insulation is also acceptable.

Overhead Rigid metal conduit, intermediate metal conduit, electrical metallic tubing, service entrance cables.

Underground Rigid metal conduit, intermediate metal conduit, non-metallic electrical conduit, minimum schedule 40 PVC.
I. BUILDING A METER LOOP

Irrigation Service
Pedestal to Submersible Pump

* GROUNDING NOTE:
A SECOND GROUND ROD AT THE WELL MAY BE
SUBSTITUTED FOR THE GROUND WIRE FROM
THE PUMP CONTROL PANEL TO THE WELL CASING

NOTE:
CONDUIT BETWEEN PUMP PANEL AND
PUMP SHOULD BE BURIED IF THE DISTANCE
IS GREATER THAN 10 FEET OR IF THE
CONDUIT IS SUBJECT TO DAMAGE FROM
FARM EQUIPMENT OR OTHER VEHICLES

ALTERNATIVE METHOD FOR ROUTING
CONDUCTORS FROM PEDESTAL TO PUMP PANEL
Irrigation Service
Pedestal to Above Ground Pump

* GROUNDING NOTES
1. A SECOND GROUND ROD AT THE PUMP MAY BE SUBSTITUTED FOR THE GROUND WIRE FROM THE PUMP CONTROL PANEL TO THE PUMP
2. THE GROUND WIRE MAY BE RUN INSIDE THE CONDUIT PROVIDED IT IS ATTACHED TO THE FRAME OF THE PUMP

NOTE:
CONDUIT BETWEEN PUMP PANEL AND PUMP SHOULD BE BURIED IF THE DISTANCE IS GREATER THAN 10 FEET OR IF THE CONDUIT IS SUBJECT TO DAMAGE FROM FARM EQUIPMENT OR OTHER VEHICLES

ALTERNATIVE METHOD FOR ROUTING CONDUCTORS FROM PEDESTAL TO PUMP PANEL
Irrigation Service
Pedestal to Towable Pivot

* NOTE: DISCONNECT MAY BE INSTALLED AHEAD OF THE PIVOT ATTACHMENT POINT, SUCH AS AT THE ROAD OR METERING POINT
Irrigation Service
Pedestal to Stationary Pivot

*GROUNDING NOTE:
The ground wire may be run inside the conduit provided it is attached to the pivot frame.
Irrigation Service
Service to Above Ground Pump or Submersible

S.P.E.C.: FURNISH & INSTALL
POLE, SERVICE WIRE,
POINT OF ATTACHMENT

SPEC TO MAKE
TERMINATION

RIGID ELECTRICAL CONDUIT
1 1/2" MIN

MTR BASE TO BE 200 AMP

IF 480V LOOP
5'-6' ABOVE GROUND

MIN OF #6 COPPER
IN METER LOOP

WEATHERPROOF
SEAL TIGHT FLEX

BOND GROUND WIRE
TO MOTOR FRAME

GROUND WIRE
#6 SOLID CU MIN

4'-0" MIN

PANEL GROUND
#6 COPPER MIN

GROUND ROD CLAMP

5/8" x 6'-0"
GROUND ROD

20 Handbook
Overhead Service
Typical Single Phase Temporary Meter

S.P.E.C. WILL FURNISH & INSTALL METER AND SERVICE DROP

MEMBER WILL FURNISH AND SET TEMP POLE WITH BRACE WITHIN 10' OF S.P.E.C. SERVICE OR LEASE POLE FROM S.P.E.C.

SERVICE ENTRANCE CONDUCTORS MINIMUM NO. 6 COPPER

TEMPORARY SERVICE SHALL BE FOR A MAXIMUM OF 6 MONTHS

15'-0" MAXIMUM

NO TRAFFIC BETWEEN

BREAKER BOX AND RECEPTACLE MUST BE WEATHER PROOF

BRACE

NO. 6 MINIMUM COPPER GROUND WIRE FROM METER BASE TO BUTT WRAP

2'-0" MIN
Underground Service
Underground Group Metering

All meter enclosures and devices shall be bonded to an approved ground, with #6 copper or larger.

S.P.E.C. to make termination pedestal installed by S.P.E.C.

Min #6 solid Cu ground wire terminated to 5/8" x 8" ground rod with ground rod clamp.

Underground conductor in 2" plastic duct installed by S.P.E.C.

Conduit and conductor furnished and installed by member or electrician.

Note: NEC 230-40

Exception No. 2

Max 6 service entrances in a group at one location

NEC 230-3

Service conductors supplying a BLDG or other structure shall not pass through the interior of another BLDG or other structure (see comments next page).
Overhead Service
Overhead Group Metering

All meter enclosures and devices shall be bonded to an approved ground, with #6 copper or larger.

Sealable rain tight wiring trough

Min #6 solid Cu ground wire terminated to 5/8" x 8" ground rod with ground rod clamp

Note: NEC 230-40
Exception No. 2
Max 8 service entrances in a group at one location

NEC 230-3
Service conductors supplying a building or other structure shall not pass through the interior of another building or other structure (see comments next page)
Overhead Service
Minimum Clearances
Overhead Service
Minimum Clearances

12' Minimum to ground
12' Minimum to sidewalks
22' Minimum to roads, streets and alleys
Overhead Service
Meter Remote- Under Eaves

LOCATION OF WEATHERHEAD IN RELATION TO ATTACHMENT POINT

WEATHERHEAD

LEAVE MIN. 2'-0" TAIL FOR CONNECTION BY S.P.E.C.

S.P.E.C. SERVICE DROP

ATTACHMENT POINT (PROVIDED BY MEMBER)

1 1/4" MIN RIGID OR EMT ELECTRICAL CONDUIT WITH WEATHERHEAD

* CUSTOMERS MAIN BREAKER

CONDUIT NIPPLE THRU WALL

GROUND WIRE #6 SOLID CU MIN

* WATERPROOF L.B. CONNECTOR

GROUND ROD CLAMP

5/8" x 8'-0" GROUND ROD INSTALLED 1 FOOT BELOW FINISHED GRADE

* INTERIOR MAIN MUST BE ON BACK SIDE OF L.B. CONNECTOR WITH NIPPLE IN BETWEEN L.B. CONNECTOR AND MAIN, IF NOT, RAIN TIGHT MAIN IS REQUIRED IN PLACE OF L.B. CONNECTOR
Overhead Service
Meter Remote - Through Eaves

- Insulated mast clamp (supplied by S.P.E.C.)
- Min. 2" rigid electrical conduit
- Weatherhead
- Leave min. 2'-0" tail for connection
- S.P.E.C. service drop
- Min 18" providing no more than 6 feet of service overhangs roof

- Customers main breaker
- Conduit nipple thru wall
- Ground wire #6 solid cu min

- Waterproof L.B. connector

- Ground rod clamp
- 5/8" x 8'-0" ground rod installed 1 foot below finished grade

* Interior main must be on back side of L.B. connector with nipple in between L.B. connector and main, if not, rain tight main is required in place of L.B. connector.
Overhead Service
Meter Base on Building–Through Eaves

- Insulated mast clamp (supplied by S.P.E.C.)
- Weatherhead
- Min. 2" rigid electrical conduit
- Min. 18" providing no more than 6 feet of service overhangs roof
- 2" hub
- Meter
- Meter socket bushing
- Exterior rain tight main required if interior main is not adjacent to back of meter base
- Ground wire #6 solid Cu Min
- Ground rod clamp
- 5/8" x 8'-0" ground rod installed 1 foot below finished grade

* Interior main must be on back side of meter base with nipple in between meter base and main, if not, exterior rain tight main is required
Overhead Service
Meter Base on Building- Under Eaves

LEAVE MIN. 2'-0" TAIL FOR CONNECTION BY S.P.E.C.

S.P.E.C. SERVICE DROP

ATTACHMENT POINT (PROVIDED BY MEMBER)

1 1/4" MIN RIGID OR EMT ELECTRICAL CONDUIT WITH WEATHERHEAD

* CUSTOMERS MAIN BREAKER
CONDUIT NIPPLE THRU WALL

GROUND WIRE #6 SOLID CU MIN

METER
METER SOCKET BUSHING

* EXTERIOR RAIN TIGHT MAIN REQUIRED IF INTERIOR MAIN IS NOT ADJACENT TO BACK OF METER BASE

GROUND ROOD CLAMP

5/8" x 8'-0" GROUND ROOD INSTALLED 1 FOOT BELOW FINISHED GRADE

* INTERIOR MAIN MUST BE ON BACK SIDE OF METER BASE WITH NIPPLE IN BETWEEN METER BASE AND MAIN, IF NOT, EXTERIOR RAIN TIGHT MAIN IS REQUIRED
Overhead Service
To Mobile Home or Meter Pole with Underground

TRIPLEX SERVICE DROP
SUPPLIED BY S.P.E.C.

MOBILE HOME

ELECTRICAL CONDUIT

WEATHERHEAD

ELECTRICAL CONDUIT

100A, 3-WIRE METER SOCKET

METER

SEE DETAIL "A" FOR INTERIOR

DISCONNECT AND
WEATHERPROOF ENCLOSURE

#6 COPPER BARE C.J.

STAPLES AL

5/8" x 8'0"
GROUND ROD AL

10'-0" MIN
20'-0" MAX

100A, 3-WIRE METER SOCKET

GH

METER

APPROX. 5'-6"

BIST PANEL

30'-POLE
ATTACHMENT

4'-0" MIN
Underground Service
Meter Base on Building

- CUSTOMERS MAIN BREAKER
- CONDUIT NIPPLE THRU WALL
- EXTERIOR RAIN TIGHT MAIN REQUIRED IF INTERIOR MAIN IS NOT BACK TO METER BASE
- GROUND WIRE #6 SOLID CU MIN
- GROUND ROD CLAMP
- WATERTIGHT CONNECTOR OR COUPLING, AS REQUIRED
- METER
- METER BASE-200 AMP BUSHING
- 2" RIGID OR SCH 80 OR SCH 40 ELECTRICAL CONDUIT (GRAY PVC) FURNISHED AND INSTALLED BY MEMBER
- APPROX. 5'-6" MIN 6" BELOW FINAL GRADE

* INTERIOR MAIN MUST BE ON BACK SIDE OF METER BASE WITH NIPPLE IN BETWEEN METER BASE AND MAIN, IF NOT, EXTERIOR RAIN TIGHT MAIN IS REQUIRED
Underground Service
Metered Remote

* Customers Main Breaker

Conduit Nipple Thru Wall

Exterior Rain Tight Main Required If Interior Main Is Not Back To Meter Base

Ground Wire #6 Solid Cu Min

Wet Rod Clamp

Watertight Connector Or Coupling, As Required

5/8" x 8'-0" Ground Rod Installed 1 Foot Below Finished Grade

* Waterproof L.B. Connector

2" Rigid Or Sch 80 Or Sch 40 Electrical Conduit (Gray Pvc) Furnished And Installed By Member

Min 6" Below Final Grade

Approx.

Approx.

* Interior Main Must Be On Back Side Of L.B. Connector With Nipple In Between L.B. Connector And Main, If Not, Rain Tight Main Is Required In Place Of L.B. Connector
Overhead Service
2-Way (in and out) Loop

- Weatherhead
- Insulated mast clamp (supplied by spec)
- Min. 2" rigid electrical conduit
- Min. 18" providing no more than 6 feet of service overhangs roof
- Waterproof connector of correct size for hub
- Conduit nipple thru wall
- Ground wire #6 solid Cu Min
- Meter
- Meter socket bushing
- Ground rod clamp
- 5/8" x 8'-0" ground rod installed 1 foot below finished grade

Handbook 33
Overhead Service
2-Way (in and out) Loop

- **WEATHERHEAD**
  - Leave min. 2'-0" tail for connection
  - S.P.E.C. service drof (Members Service)

- **ELECTRICAL CONDUIT**

- **WATERPROOF CONNECTOR**
  - Of correct size for hub

- **METER**

- **METER SOCKET BUSHING**

- **#6 COPPER BARE**

- **STAPLES**

- **GROUND ROD CLAMP**

- **5/8" x 8'-0" GROUND ROD**
  - Installed 1 foot below finished grade

- **30' POLE**

- **APPROX. 5'-6'**
Pay Your Electric Bill Online!

Online bill paying is a fast, convenient and safe way to pay your electric bill. No checks to write. No invoices to mail. Just a few clicks is all it takes. You can also see your billing history and other information.

Ask your local South Plains Electric Cooperative customer service representative for details or go to www.SPEC.coop.

Service offices located at:
82nd St. & Upland Ave., Lubbock
Municipal Drive above MacKenzie Park, Lubbock
Farm Road 836, Spur
1900 Ave. C NW, Childress