Contact MID’s Electric Engineering Department
(electric.standards@mid.org)
with any questions about this Service Guide.

Check MID’s website (www.mid.org) “Electric Service Guide” for the most current version of this Service Guide.

If you have any suggestions about improving this Service Guide, please complete the form on the last page of this Guide and return it to MID’s Electric Engineering Department.

USE CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES
BEFORE DIGGING CALL
USA (Underground Service Alert)
1 (800) 227-2600 or 811
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A. General Requirements for Service

1. This Guide is intended to inform customers and contractors of the minimum requirements for agricultural electric service installations, as specified in General Order 95, “Rules for Overhead Electric Line Construction,” and General Order 128, “Construction of Underground Electric Supply and Communication Systems” of the Public Utilities Commission. These requirements have been established by the State in the interest of safety to the public and utility workers and are applicable to all agricultural electric service installations. The MID cannot establish service to facilities which do not meet these minimum requirements.

2. These requirements are applicable only for agricultural pump installations.

3. It is necessary that all written material (this Guide, as well as all of the notes on the Drawings) be carefully read.

4. It is important that satisfactory arrangements be made for the installation of electric lines and the location and setting of meters. Contact MID’s Customer Service Department, 1231 11th Street, Modesto CA 95352, (209) 526-7337, for new or additional service. This must be completed as soon as initial planning is considered. Delays in supplying this required information could cause unnecessary inconvenience for the customer. Electric service will not be established until the service entrance facilities are satisfactorily completed by the customer.

Note: “Customer service entrance facilities” is the term used to designate all the electrical components required to be furnished and installed by the customer. MID will furnish, install and maintain the service drop conductors, instrument transformers and meters (overhead service only).

5. The customer is required to supply and install all protective devices of any kind or character as per MID Rule No. 2F. The customer may be required to have motor starting current limitations as per MID Rule No. 2E4. Refer to www.mid.org/tariffs to find the MID Electric Service Rules.

6. All materials used and all work performed on a customer’s premises, with the exception of the metering equipment and service conductor, must conform to local governing authority requirements (see a list of local governing authorities on page 10). No service can be connected unless passed by the proper authority. Only authorized MID employees are permitted to make connections to MID’s facilities.

7. In addition to MID’s requirements, the customer is responsible for complying with applicable provisions of City and County ordinances, the “National Electric Code,” Electric Utility Service Equipment Requirements Committee (EUSERC) and all applicable orders, rules and regulations of the State of California.

8. The customer’s service voltage and pole locations will be determined by MID’s Engineering Department. The customer pole(s) shall be located within 100 feet of the MID source and shall be a minimum of 3 feet from all property lines. Pole locations other than that described above will not be allowed without advance written permission from the Engineering Department and are subject to additional charges, payable prior to meter installation. Any deviations will be made only for special requirements and must be approved by the Engineering Department.
9. Failure to comply with requirements 1-8 could be costly and cause unnecessary delays for the customer.

B. Abbreviations

The following abbreviations may be used throughout this Service Guide.

- **Amp**: Amperes
- **ag**: Agricultural
- **GO**: General Order
- **OH**: Overhead
- **UG**: Underground
- **V**: Volt

C. Frequently Asked Questions

1. **What is an agricultural service?**

   An agricultural (ag) service is for landowners with the need to utilize pumps to irrigate crops. Special rates may apply. Refer to MID’s Rates and MID’s Electric Service Rules at www.mid.org/tariffs.

2. **What are the steps to obtain an agricultural service?**

   a) Contact the MID Engineering Technician assigned to your area (see the Map on page 23).

   b) Apply with the MID Electrical Engineering. Submit an application for service, an Agricultural Load Information Form, and include an irrigation layout showing the pump location (sample forms are located on pages 21 and 22). You can find the application for service and the Agricultural Load Information Form at the back of this Guide or you can download the form at www.mid.org. Contact the MID Electrical Engineering Department at (209) 526-7337.

   c) An Engineering Technician will schedule an on-site appointment with you to discuss the project design and to complete and sign an Engineering Project Request Form.

   d) A requirements package will be created for this project. The package normally includes a letter, site plan and standard/drawing details for your use. You should receive the package in approximately 3-4 weeks after the initial field visit.

   e) You will need your panel inspected and tagged by the local governing authority (City, County, etc.)

   f) Upon a passed inspection, you will need to notify the MID Engineering Technician to schedule a final MID inspection.

   g) An Engineering Technician will coordinate with the MID Construction Department to schedule a date for energizing your service.
3. Where can I put my main panel?

Consult with an MID Engineering Technician prior to installation. You can find your area’s Engineering Technician phone number on a map of MID’s service area on page 23.

4. What voltages are available?

a) Single-Phase Service

1) Single-phase service will normally be 120/240 Volts (or three-wire 120/208 Volts at certain locations as now or hereafter established by MID) where any single motor does not exceed 7½ horsepower. For any single-phase service, the maximum demand as determined by MID is limited to the capacity of a 100 kVA transformer. If a load requires a transformer installation in excess of 100 kVA, the service normally will be three-phase.

2) In locations where MID maintains a 120/208 Volt secondary system, three-wire single-phase service will be limited to that which can be supplied by a main switch or service entrance rating of 200 amperes. Single-phase loads in these locations in excess of that which can be supplied by a 200 ampere main switch or service entrance rating will normally be supplied with a 208Y/120 Volt, three-phase, 4-wire service.

b) Three-Phase Service 480 Volts or Less

1) Secondary service normally available from overhead primary distribution systems:

<table>
<thead>
<tr>
<th>Nominal Voltage Permitted</th>
<th>Minimum Load Requirements</th>
<th>Maximum Demand Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>208Y/120V</td>
<td>30 kVA, 3-Phase Demand</td>
<td>75 kVA</td>
</tr>
<tr>
<td>240V</td>
<td>5HP, 3-Phase Connected</td>
<td>75 kVA</td>
</tr>
<tr>
<td>240/120V</td>
<td>5HP, 3-Phase Connected</td>
<td>75 kVA</td>
</tr>
<tr>
<td>480Y/277V</td>
<td>30HP, 3-Phase Demand</td>
<td>112.5 kVA</td>
</tr>
</tbody>
</table>

2) Secondary service from underground primary distribution systems or from underground taps of overhead primary distribution systems (where MID maintains existing three-phase primary circuits):

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>Minimum Load Requirements</th>
<th>Maximum Demand Load Permitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>208Y/120V</td>
<td>Demand load justifies a 75 kVA transformer</td>
<td>1000 kVA</td>
</tr>
<tr>
<td>480Y/277V</td>
<td>Demand load justifies a 75 kVA transformer</td>
<td>2500 kVA</td>
</tr>
</tbody>
</table>

3) Where three phase service is supplied, MID reserves the right to use single-phase transformers connected wye, open-delta, or closed delta, or use three-phase transformers.
4) Three-phase service will be supplied on request for installations aggregating less than the minimums listed above, but not less than 3 HP, three-phase, where existing transformer capacity is available. If three-phase service is not readily available, or for service to loads less than 3 HP, three-phase service will be provided only if the customer pays to MID the estimated difference between single-phase and three-phase construction costs at that location.

5. Will my agricultural service be underground or overhead?

Depending on your pump size, you may be required to install an underground system. Consult with an MID Engineering Technician.

6. Is there a fee for an agricultural service?

Fees depend on distance, size, and type of service. Refer to MID’s Electric Service Rules No. 15 and 16 at www.mid.org for more detail.

7. What are the minimum requirements on the main panel?

a) Approved test bypass devices are required for all agricultural self-contained meter socket installation (see Drawing AG-003.0, Drawing AG-004.0 and Drawing AG-006.0, pages 13-15).

b) Standard switchboard service sections can be used on all services which require current transformers.

c) Submit panel drawings to MID Meter Department for review prior to fabricating.

8. What are the minimum requirements on a service pole that I own?

a) See Drawing AG-007.0 (page 16) for materials required. See Drawing AG-001.0 and Drawing AG-002.0 (pages 11 and 12) for minimum clearances and guying requirements.

b) The service pole shall be located at least 10 feet away from any well, and in such a position that overhead conductors or guys will not cross through or over the area within a radius of 10 feet from the well and will not interfere with work to be performed at any well.

c) The service pole shall be located at least 10 feet from any pole owned by MID. A minimum distance of 10 feet, measured at right angles to the centerline of MID’s power line, must be maintained.

9. Who will be responsible for the overhead service drop conductors?

a) MID will furnish and install the overhead service drop conductors from its distribution system to your service pole and will furnish and install the electrical connections to your service entrance conductors.

b) The maximum length of an overhead service is not to exceed 100 feet. Additional length will result in an MID fee. See MID’s Electric Service Rules No. 15, 16, and Appendix B at www.mid.org/tariffs for the requirements.
10. Who will be responsible for the underground conduit and conductors?

You, the customer, will be responsible. Conduit and conductors must be installed per National Electric Code. Consult with the local governing authorities for size and type of conduit and wires (see page 10 for a list of local governing authorities).

11. How can I restore power to an existing agricultural pump?

Contact MID Customer Service Department at (209) 526-7337.

D. Minimum Requirements for Agricultural Electric Service Installations

1. Metering

   a) Approved test bypass devices are required for all agricultural self-contained meter socket installations (see Drawing AG-003.0, Drawing AG-004.0 and Drawing AG-006.0).

   b) Standard switchboard service sections can be used on all services which require instrument transformers.

   c) MID’s Meter Department is to be contacted on jobs involving anything over 200 Amps or non-self-contained metering equipment.

   d) All self-contained meter sockets for agricultural installations shall be UL rated for continuous duty as follows:

      1) 100 Amps continuous duty rating required on:

         • 120/240 Volt polyphase loads from 5HP to 29HP
         • 277/480 Volt polyphase loads from 30HP to 60HP maximum

      2) 200 Amps continuous duty rating required on:

         • 120/240 Volt polyphase loads from 31HP to 60HP
         • 277/480 Volt polyphase loads from 61HP to 100HP maximum

   e) Meter sockets with extruded or cast aluminum jaws are not acceptable and will not be connected.

2. Application

   a) The installations shown on the attached Drawings are not applicable when a suitable building or structure is available for the attachment of service drop conductors and metering equipment.

   b) When a service pole is required to support service drop conductors and metering equipment supplying single phase and three phase energy under agricultural power
schedules, the installation shall be in accordance with these requirements and Drawing AG-003.0.

120/240 Volt, Self-Contained, Meter Socket Installations. This installation shall apply to 120/240 Volt polyphase agricultural loads from a minimum of 5HP to a maximum of 29HP.

277/480 Volt, Self-Contained, Meter Socket Installations. This installation shall apply to 277/480 Volt polyphase agricultural loads from a minimum of 30HP up to a maximum of 100HP.

277/480 Volt, CT-Rated, Meter Socket Installation With Instrument Transformers. This installation shall apply to 277/480 Volt polyphase agricultural loads from a minimum of 101HP and above.

c) Consult an MID Engineering Technician for the proper voltage of the proposed installation.

3. Test Bypass Devices for Self-Contained Meter Installations

Approved test bypass devices, illustrated on Drawing AG-003.0, Drawing AG-004.0 and Drawing AG-006.0, are required on all agricultural, self-contained meter installations.

4. Meter Enclosures

Meter enclosures shall be UL approved, Electric Utility Service Equipment Requirements Committee (EUSERC) approved, and approved by MID’s Metering Department.

5. Customer Owned Service Pole

a) A wood pole shall be used to support conductors and metering equipment. The manufacturer brand date will be required on the pole. The pole shall be round and at least 25 feet in length and rated class 5 minimum. The top of the pole will need to have a minimum diameter of 6.05 inches. The pole shall be machine shaved and full length treated by pressure or another process which provides equivalent penetration and retention. Brush application of wood preservative is ineffective and, therefore, not acceptable.

b) The service pole shall be located at least 10 feet away from any well, and in such a position that overhead conductors or guys will not cross through or over the area within a radius of 10 feet from the well and will not interfere with work to be performed at any well.

c) The service pole shall be located at least 10 feet from any pole owned by MID. A minimum distance of 10 feet, measured at right angles to the centerline of MID’s power line, must be maintained.

d) The service pole shall be set in the ground not less than 5 feet and shall be securely guyed against the pull of service drop conductors so as to maintain vertical position.
6. Service Pole Guy and Anchor

a) The guy wire shall be galvanized steel wire and shall be 3/8 inch or larger. The guy wire shall be attached to the service pole as shown on Drawing AG-001.0. A strain insulator (10,000 lb. minimum) shall be installed with the guy no less than 10 feet above the ground.

b) A suitable anchor shall be provided for property securing the guy wire. This arrangement is shown on Drawing AG-002.0.

7. Overhead Service Drop Conductors

MID will furnish and install the overhead service drop conductors from its distribution system to the customer’s service pole and will furnish and install the electrical connections to the customer’s service entrance conductors.

8. Service Entrance Conductors

a) The local governing authorities should be consulted for size and type of wire (see page 10 for a list of local governing authorities).

b) The service entrance conductors must be continuous and without splices. A minimum of 24 inches must be left outside the service head for connection to the service drop.

9. Service Conduit

a) The service conduit shall be sized in accordance with the requirements of local governing authorities.

b) All conduits must be in accordance with the requirements of local governing authorities.

10. Service Main Disconnect

a) The service main disconnect, or main breaker, must be installed on the load side of the MID meter.

b) If the service main disconnect is installed outside, it shall be of an approved rain tight type, UL listed and lockable.

c) If the meter socket and service main disconnect (main breaker) are in separate enclosures, the wiring between the two enclosures must be in RMT, IMT electrical conduit or approved sealable raceway per NEC.

d) All service disconnects shall have a provision for locking in the open/off position.

11. Customer’s Control Equipment

a) The customer’s motor control equipment shall include over current devices in all load conductors for the best possible protection of the motor.
b) The customer’s service main disconnect and motor control equipment may be mounted on the service pole provided main disconnect meets all requirements as shows on Drawing AG-007.0 (page 16).

12. Grounding

The local governing authorities should be consulted for grounding requirements (see page 10 for a list of local governing authorities).

13. Requirements Prior to Energizing Service

a) The meters will not be installed until the customer has complied with all the requirements noted above.

b) If additional trips are required because customer-installed facilities are not properly installed, not ready for inspection, or do not pass inspection, MID will bill the customer for each additional inspection in the amount of the Inspection Fee listed in Appendix A of MID’s Electric Service Rules (www.mid.org).
## E. Project Scheduling Table

<table>
<thead>
<tr>
<th>Step</th>
<th>Party</th>
<th>Typical Time Required by MID</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Customer</td>
<td></td>
<td>Send final set of site plans to MID’s Electrical Engineering Department for review and design.</td>
</tr>
<tr>
<td>2</td>
<td>MID</td>
<td>10 business days</td>
<td>Engineering Technician designs the electric layout and sends the installation agreement and one marked-up copy of site plan to the Customer.</td>
</tr>
<tr>
<td>3</td>
<td>Customer</td>
<td></td>
<td>Pay any charges, return a signed installation agreement, and return completed Agricultural Load Information Form with all relevant dates regarding construction and service requirements. Both must be returned to MID. Obtain all necessary permits from the local governing authority.</td>
</tr>
<tr>
<td>4</td>
<td>MID</td>
<td>10 business days</td>
<td>Engineering Technician designs engineering drawing(s), materializes and assembles the work order.</td>
</tr>
<tr>
<td>5</td>
<td>Customer</td>
<td></td>
<td>Call USA to locate underground utilities, install conduit and substructures, return Application for Electric Services to the Customer Service Department, request MID and local governing authority to inspect conduit, substructure, transformer pad, and electric facilities.</td>
</tr>
<tr>
<td>6</td>
<td>MID</td>
<td>3 business days</td>
<td>MID inspects trench, conduit, substructures, and transformer pad. This stage repeats itself until you satisfactorily pass inspection.</td>
</tr>
<tr>
<td>7</td>
<td>Customer</td>
<td></td>
<td>Close trench, pull service conductors to agreed location, connect conductors to panel. Local governing authority inspects electric facilities. Your facilities pass inspection and you request service.</td>
</tr>
<tr>
<td>8</td>
<td>MID</td>
<td>7 business days pending weather and scope of project</td>
<td>Meter Department wires instrument transformers, where required; MID construction installs transformer, primary cables and secondary cables where needed. MID reviews the local governing authority inspection tag to verify equipment conformance; if the equipment passes, the meter is set and the panel is energized.</td>
</tr>
</tbody>
</table>
F. Local Governing Authorities Within MID’s Service Area

City of Modesto Building Department
1010 Tenth St. 3rd Floor
Modesto, CA 95353
Phone: 209-577-5232

City of Waterford Building Division
101 E St.
Waterford, CA 95386
Phone: 209-874-2328
Fax: 209-874-9656

Stanislaus County Building Department
1010 Tenth St. Suite 3500
Modesto, CA 95354
Phone: 209-525-6557
Fax: 209-525-7759

City Of Oakdale Community Development
455 S. Fifth Ave.
Oakdale, CA 95361
Phone: 209-845-3625
Fax: 209-848-4344

San Joaquin County Building Department
1810 Hazelton Ave.
Stockton, CA 95205
Phone: 209-468-3121

City of Escalon Building Department
2060 McHenry Ave.
Escalon, CA 95320
Phone: 209-691-7460
Fax: 209-691-7439

City of Riverbank Building Department
6617 3rd St.
Riverbank, CA 95367
Phone: 209-863-7128

City of Ripon Building Department
259 N. Wilma Ave.
Ripon, CA 95366
Phone: 209-599-2613
Fax: 209-599-2183

G. MID Contact Information

Modesto Irrigation District
1231 Eleventh Street (P.O. Box 4060)
Modesto, CA 95354 (Modesto, CA 95352)
Electrical Engineering Department
Phone: 209-526-7468
Fax: 209-526-7357

1 Contact the MID Engineering Technician assigned to the area (see map on page 23).
RELATIONSHIP BETWEEN UTILITY DISTRICT’S POWER POLE AND CUSTOMER’S SERVICE POLE

METHOD OF INSTALLING ANCHORS

NOTES:
1. The following drawing is NOT applicable if a suitable building or structure is available for the attachment of the service drop conductors & metering equipment.
2. Cut narrow slot in soil to install guy wire at correct angle. Galvanized eye bolt is to be used.
3. Minimum conductor to ground clearance allowed is 16’-0”. If conductor is over a public street or a road, then the minimum allowance clearance is 18’-0”.
4. Do not construct in such a manner that a well is positioned in this area.
METHODS OF COVERING CONDUITS ON POLES, POLE TOP CONSTRUCTION, AND DETAILS OF ANCHORS

Covering Conduits on Poles

FIBER CONDUIT OR EXTRA SCHEDULE 80 PVC
Extra heavy wall PVC (schedule 80) or fiber conduit of 1/4" wall thickness over rigid conduit strapped to pole w/ galv. perforated plumber's tape spaced not over 3'-0" apart.

NOTES:
1. PVC Schedule 80 riser and service head do not require covering.

Details of Anchors and Bracing

1/2" DIA. x 6'-0"
GALV. STEEL ANCHOR ROD (MIN. SIZE)
6" MIN. DIA.
STEEL ANCHOR
FIG 2
STEEL ANCHOR

NOTE:
1. The minimum anchor depth in the soil is 4 feet.

TABLE OF POLE SETTING DEPTHS

<table>
<thead>
<tr>
<th>POLE LENGTH (FT.)</th>
<th>DEPTH (FT.) IN FROM SOIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>4 1/2</td>
</tr>
<tr>
<td>30</td>
<td>5</td>
</tr>
<tr>
<td>35</td>
<td>5</td>
</tr>
<tr>
<td>40</td>
<td>5 1/2</td>
</tr>
</tbody>
</table>

Drawing AG-002.0: Overhead Service, Methods of Covering Conduits
NOTE:

1. Commercial/Industrial/AG, self-contained meter sockets shall be U/L approved and shall have a continuous duty current rating load equal to or greater than the current rating of the associated load service equipment.

2. Neutral taps shall be connected to the service neutral conductor and located behind sealed panels. Wire nuts are not permitted.

3. For test bypass devices, see AG-004.0 thru AG-006.0
NOTES:

1. This device may be used for single or multiple commercial and industrial meter installations mounted in a ganged array.

2. Test-bypass blocks with rigid insulating barriers shall be installed and wired or bussed to a line raceway and also wired or bussed to the meter socket then to the main switch by the manufacturer. Connection sequence is line-load, line-load, line-load from left to right.

3. Minimum access opening to test-bypass blocks shall be 11" x 10".

4. Three inches minimum clearance required for utility test purposes.

5. All section covers shall be independently removable. Upper cover shall be non-removable when meter is in place. Meter socket shall be mounted on support and attached to panel. Test-bypass cover shall be scalable and permanently labeled: "DO NOT BREAK SEAL - NO FUSES INSIDE".

6. When a neutral is required for metering or testing, an insulated neutral terminal, mounted on either side, shall be provided behind each test-bypass cover panel. The terminal shall be readily accessible when the cover is removed and shall be individually connected to the neutral bus with a minimum of No. 8 copper wire.

7. For 30, 4 wire, connect 7th jaw to body of neutral lug with No. 12 min. copper wire.

8. For 30, 4 wire Delta, identify right hand test-bypass block (2 poles) as power leg.

9. For 10, 3 wire, omit center test-bypass block.

10. For 10, 3 wire, 120/208v, omit center test-bypass block. Connect 5th jaw to body of neutral lug with No. 12 min. copper wire.

11. Permanent line-load labels on inside back of enclosure in 3/4 inch (min.) high block letters.

12. Minimum depth shall be 4-1/2 inches for 0-100A and 6 inches for 101-200A.
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Drawing AG-006.0: Metered Service, Test Bypass Blocks for Safety Socket 0-200 Amps

NOTES:

1. The strike distance between the upper and lower bus sections shall not be less than 1/4 inch when the shorting nut is backed off.

2. The circuit-closing nut shall be a hex nut 5/8 inch across flats with plated copper washer attached and have threads bolt head shall be secured counter-bored at the bottom to facilitate reinstallation. The in place to prevent turning and backout.

3. The circuit-closing nut and bolt assembly shall maintain the applied contact pressure between the plated copper washer and the bus members of the test bypass block.

4. The insulating washer shall be made from dimensionally stable, nontracking material and shall provide a minimum of 1/8 inch creep distance between the bolt and the bus sections. bus sections shall be plated.

5. Wire stops shall extend to the center of the terminal opening or beyond.

6. Rigid insulating barriers shall project at least 1/4 inch beyond any energized parts when the maximum wire size is installed.

7. Terminals shall be aluminum bodied. The opening shall extend through the terminal body end, if the wire hole is round, shall be chamfered as necessary to facilitate installation of the largest size wire.

8. The terminal screw may be of the Allen type (3/16 inch across flats for 100 amp, or 5/16 across flats for 200 amp). If stud "A" is a part of the terminal screw, the terminal screw shall be 5/8 inch hex across flats.

9. Stud "A" shall be located in the clear area between the terminating lug and the circuit-closing nut and may be positioned on the terminal body, on the terminal screw, on the bus member, or incorporated as part of the wire stop.
NOTES:
1. A bolted point of attachment for M.I.D. service drops must be furnished and installed by customer.
2. See dwg. AG-009.0 for guyling and push brace requirements.

MATERIALS BY CUSTOMER AS REQUIRED BY N.E.C.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pole, wood round (25&quot; Min.) Class 5, treated.</td>
</tr>
<tr>
<td>2</td>
<td>Meter socket, main service sw. (size as required)</td>
</tr>
<tr>
<td>3</td>
<td>MID owned, conduit riser; PVC Sch. 80</td>
</tr>
<tr>
<td>4</td>
<td>Service weather head(s)</td>
</tr>
<tr>
<td>5</td>
<td>Conduit fitting, threaded with cover and gasket</td>
</tr>
<tr>
<td>6</td>
<td>Strap, pipe, galvanized.</td>
</tr>
<tr>
<td>7</td>
<td>Bolt, mach. 5/8&quot; x length as required with washers, galvanized.</td>
</tr>
<tr>
<td>8</td>
<td>Conduit, grounding hub, and clamp.</td>
</tr>
<tr>
<td>9</td>
<td>Ground, contact local inspection authority.</td>
</tr>
<tr>
<td>10</td>
<td>Wood block, 4&quot; x 4&quot; or two 2&quot; x 4&quot; nailed together.</td>
</tr>
<tr>
<td>11</td>
<td>Riser wire, insulated: size as required with 24&quot; Min. tail</td>
</tr>
<tr>
<td>12</td>
<td>Ground wire as per N.E.C.</td>
</tr>
<tr>
<td>13</td>
<td>Customer owned, conduit riser; PVC Sch. 80</td>
</tr>
</tbody>
</table>

PREVIOUSLY GE–06–285.0
Drawing AG-008.0: Overhead Service, Service Drop Conductor Clearances
Sample 1: Application for Service
Agricultural Load Information Form

Modesto Irrigation District
ATTN: Electrical Engineering
PO Box 4060
1231 11th Street
Modesto, California 95352
Fax: (209) 526-7357

Date: 5/15/2015

Project: Brown Dairy Expansion
Location (Street): 1234 Sample Drive
Owner (Name): John Doe
Address: 1234 Sample Drive, Modesto CA 95352
Engineer/Contractor (Name):
Address: 5678 Sample Drive, Modesto CA 95352

Estimated Date Ready for Service: 8/15/2015
Pre-Construction Meeting Date: 6/1/2015
Begin Rough Grading Date: 6/8/2015

General Information
Type of Business: Dairy

Electric Load Information

<table>
<thead>
<tr>
<th>Initial</th>
<th>Future</th>
</tr>
</thead>
<tbody>
<tr>
<td>3Ø Motors</td>
<td>50 HP</td>
</tr>
<tr>
<td>Largest 3Ø Motor</td>
<td>30 HP</td>
</tr>
</tbody>
</table>

Total Initial Connected Electrical Load: 15.0 kW
Size Main Fused Switch: 20 Amps
Total Future Connected Electrical Load: 20.0 kW

Estimated Date of Future Load: ____________

Type of Service Desired: (circle one) Under Overhead Ground

Phase: 3
Voltage: 480
Wires: 4
Estimated Initial Date: 8/15/2015

Additional load information may be required if voltage flicker problems are anticipated.

Site Plan: (X) One site plan in .dxf or Autocad format on a CD
( ) Emailed electronic file to electric.standards@mid.org

Go to http://www.mid.org/forms/ for the most current Form.
# APPLICATION FOR NON-RESIDENTIAL ELECTRIC SERVICE(S)

**--- MID USE ONLY ---**

<table>
<thead>
<tr>
<th>CSR Name</th>
<th>Equivalent</th>
<th>Change in svc</th>
<th>New construction</th>
<th>Franchise District:</th>
<th>Tax District:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account #:</td>
<td>Anticipated Load:</td>
<td>Rate:</td>
<td>Reactive Meter:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Svc Pt #:</td>
<td>NAICS Code:</td>
<td>Voltage:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deposit Amount/Reason for waiving:</td>
<td>Map grid seq #:</td>
<td>Class 1 Code:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CS Approved by: | Date: | Mktd Approved by: | Date: | Engr Approved by: | Date: |

Please fill out the application completely, and attach supporting documentation. Sign and return to MID in the office, by fax or email. In accordance with MID Rules & Regulations, a minimum deposit of $300, or three times the highest monthly bill, may be required to activate service.

**Today’s date __________________ Service start date: __________________ Power On? □ Yes □ No**

**Type of Service:** □ Commercial □ Industrial □ Lighting □ Ag Pump – horsepower: __________

**New construction:** Yes No **Square footage of building or work area:** __________

1. Legal billing name: __________________

2. Doing business as (DBA): __________ Name of Organization or Entity

3. Service address: __________ Street __________ City __________ Zip Code

4. Mailing address: __________ Street __________ City __________ Zip Code

5. Type of business: __________ Franchisee? □ Yes □ No

Complete description of goods or services rendered

6. Number of years in business: _______ Business phone: __________ Fax number: __________

7. Type of ownership: □ Sole Proprietor □ Partnership □ LLC □ LLP □ Corporation □ Public Agency □ Other

8. If corporation, LLP or LLC list state where filed: __________ Year filed: __________

9. Taxpayer ID number (EIN or SSN): __________ Business License number: __________

Copy of license required

10. If business name is legal billing name, fictitious name file number: __________ Filing date: __________

11. Address of corporate office or residence address if sole proprietor:

12. Name and information for all corporate officers, partners, or sole owners:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Phone</th>
<th>Driver’s License &amp; State</th>
<th>Date of Birth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. Contact for billing inquiries: __________________

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Phone</th>
<th>email address</th>
</tr>
</thead>
</table>

14. Name of person completing form: __________________

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Telephone</th>
</tr>
</thead>
</table>

**Signature (required):**

Owner or Corporate Officer □ Driver’s License number & State □ Date of Birth

Print Name | Title | Date |
---------|------|------|

**Note:** In accordance with published MID regulations, supporting documents verifying the legal billing name may be required.
Agricultural Load Information Form

Modesto Irrigation District
ATTN: Electrical Engineering
PO Box 4060
1231 11th Street
Modesto, California 95352
Fax: (209) 526-7357

Date: _________________________

Project: __________________________
Location (Street): __________________________
Owner (Name): __________________________ Telephone: __________________________
Address: __________________________
Engineer/Contractor (Name): __________________________ Telephone: __________________________
Address: __________________________
Estimated Date Ready for Service: ____________ Pre-Construction Meeting Date: ____________
Begin Rough Grading Date: ____________

General Information
Type of Business: __________________________

Electric Load Information

<table>
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<tr>
<th></th>
<th>Initial</th>
<th>Future</th>
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<tbody>
<tr>
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<td>______ HP</td>
</tr>
<tr>
<td>Largest 3Ø Motor</td>
<td>______ HP</td>
<td>______ HP</td>
</tr>
</tbody>
</table>

Total Initial Connected Electrical Load: ______ kW
Size Main Fused Switch: ______ Amps
Estimated Date of Future Load: ______

Total Future Connected Electrical Load: ______ kW

Type of Service Desired: (circle one) Overhead Underground
Phase: ______ Voltage: ______ Wires: ______ Estimated Initial Date: ______

Additional load information may be required if voltage flicker problems are anticipated.

Site Plan: ( ) One site plan in dxf or Autocad format on a CD
( ) Emailed electronic file to electric.standards@mid.org

Signature of Applicant

______________________________

Office Use Only

Application □ Yes □ No
Checked By: __________________________________ Date: _______________
Complete □ Yes □ No
If no, explain: __________________________________

6/2014
Service Guide Customer Input Form

The Modesto Irrigation District strives to provide excellent customer service. In an effort to improve our Service Guides, this form is provided so you can share your comments and suggestions. Please fill out this form and submit it with along with your comments. Please be as specific as possible. Once the form is complete, email the form to our Standards Department at electric.standards@mid.org, or mail the form to the Modesto Irrigation District office, attention Electrical Standards.

Modesto Irrigation District
Attn: Electrical Standards
PO Box 4060
Modesto CA, 95352-4060

Name: ____________________________ Date: ________________

Phone Number: ________________ Email: ____________________________

Indicate which Service Guide your comments pertain to:

- [ ] Residential
- [ ] Agricultural
- [ ] Commercial and Industrial
- [ ] Temporary
- [ ] Solar Photovoltaic
- [ ] Electric Vehicle
- [ ] Residential Subdivision
- [ ] Street Lighting and Miscellaneous

<table>
<thead>
<tr>
<th>Service Guide Feature</th>
<th>Not Effective</th>
<th>Somewhat Effective</th>
<th>Effective</th>
<th>Very Effective</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization of Service Guide</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Requirements Were Clear</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
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<td>[ ]</td>
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<tr>
<td>Effectiveness of Sample Forms</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
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<tr>
<td>Effectiveness of Drawings</td>
<td>[ ]</td>
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<td>[ ]</td>
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<td>[ ]</td>
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<tr>
<td>Effectiveness of Service Guide</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
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</tr>
</tbody>
</table>

Comments:

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

6/2014