Electric Service Guide

Temporary

January 1, 2017
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. Frequently Asked Questions

1. What is a temporary service and why would I need it?

A temporary service is a non-permanent electric service limited to 36 months. Temporary service may be established during development of a property prior to permanent service installation, or when electric service desired is intended for short term use only. Temporary service shall be removed or converted to permanent service at the end of the temporary service duration.

2. How do I know what temporary service is right for me, and what are the steps needed?

Contact an MID Engineering Technician who handles the area you intend to install temporary electric service (a map showing the areas is on page 13). The MID Engineering Technician can meet with you at the site of your new temporary electric service and discuss which temporary electric service option will be right for you.

3. Can I still get a temporary service if there are no existing MID facilities nearby and what are my fees?

Where MID is required to alter transformers, existing service conductors, or extend facilities to accommodate customer temporary electric service, the full cost of the installation and removal of the temporary electric service plus an administrative fee shall be paid by you in advance of the installation. MID standard temporary electric service fees in the MID Electric Service Rules, Appendix A, will apply only when existing MID facilities are available to the requested temporary electric service site without additional modification for electric service connection.

4. What are my requirements to get temporary service?

You must provide an electric service panel either placed on a 6” x 6” x 20’-6” minimum post, or a 25’ class 5 pole placed within 100’ of existing MID overhead electric service facilities, and be MID truck accessible (refer to Drawing TMP SRVC-002.0 and Drawing TMP SRVC-004.0, pages 6 and 8), or an electric service panel placed on a 6” x 6” x 11’-0 post with conduit, and cable provided to an MID service point in an existing MID pull box, or an MID transformer adjacent to the property (refer to Drawing TMP SRVC-001.0, Drawing TMP SRVC-002.0, Drawing TMP SRVC-003.0, or Drawing TMP SRVC-004.0 on pages 5 through 8).

B. Requirements for Temporary Electric Service

1. The customer must contact the MID Engineering Technician assigned the area (see the Map on page 13).

2. The MID Engineering Technician will arrange a site visit with the customer and provide the necessary information including the application and other forms.

3. The MID Electric Engineering department will design the temporary electric service and provide a requirements letter with appropriate fees estimated, as necessary.
4. The customer must respond to the MID requirements letter and deposit the fee. The customer must prepare the site with temporary electric service, and have the electric work inspected by the appropriate local governing authority (a list those local authorities are on page 4). The customer should notify MID when the temporary electric service has been inspected and approved.
<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>7 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 Commercial 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>7 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>
D. 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

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

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

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

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

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

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

E. MID Contact Information

Modesto Irrigation District
1231 Eleventh Street (P.O. Box 4060)
Modesto, CA 95354 (Modesto, CA 95352)
Electrical Engineering Department¹
Phone: 209-526-7468
Fax: 209-526-7357

¹ Contact the MID Engineering Technician assigned to the area (see map on page 13).
CUSTOMER OWNED AND MAINTAINED SERVICE CONDUIT AND CONDUCTORS TO CUSTOMER OWNED SERVICE PANEL, PER N.E.C.

ALL PVC CONDUIT TO BE SCHEDULE 40, UNLESS EXPOSED ABOVE GROUND, THEN CONDUIT MUST BE SCHEDULE 80.

6" X 6" PRESSURE TREATED WOOD POST (MIN.)

METER WILL BE FURNISHED AND SET BY M.I.D. AFTER APPROVAL BY LOCAL GOVERNING INSPECTION AUTHORITY.

SERVICE ENTRANCE CONDUIT AND CONDUCTORS TO SERVICE TERMINAL TO COMPLY WITH REQUIREMENTS SPECIFIED BY NATIONAL ELECTRIC CODE. (UNLESS SPECIFIED)

GROUNDING TYPE RECEPTACLE. SERVICE GROUND WIRE TO COMPLY WITH NATIONAL ELECTRIC CODE.

3" SCHEDULE 80 PVC CONDUIT

46" MIN. - 75" MAX.

7'-0"

APPROVED GROUNDING CLAMP MUST BE ACCESSIBLE. EXTEND CONDUIT TO GROUND ROD TO PROTECT GROUND WIRE.

GROUND ROD SHALL BE EITHER:

3/4" X 8' GALV. PIPE
5/8" X 8' GALV. IRON ROD
1/2" X 8' COPPER CLAD ROD

AND SHALL BE DRIVEN INTO UNDISTURBED SOIL.

NOTE:
ALL PVC CONDUIT TO BE SCHEDULE 40 UNLESS EXPOSED ABOVE GROUND, THEN CONDUIT MUST BE SCHEDULE 80.

Drawing not to scale.

Previously GE-05-169.0

Drawing TMP SRVC-001.0: Typical Temporary Underground Service, Service Pole, Pull Box
Temporary Electric Service Guide

NOTES:
1. Must have truck access.
2. 3' clearance in front of panel.
   (See TMP SRVC-004.0 for meter clearances.)

MATERIALS TO BE FURNISHED & INSTALLED BY CUSTOMER

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pole, wood 6&quot; x 6&quot; (20' Min. length) or 2.5' class 5 round pole, treated.</td>
</tr>
<tr>
<td>2</td>
<td>Meter socket, main service sw. (size as required)</td>
</tr>
<tr>
<td>3</td>
<td>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>Insulators, clevis type (with bolts, washers) bolted through pole</td>
</tr>
<tr>
<td>8</td>
<td>Bolt, mach. 5/8&quot; x length as required with washers, galvanized.</td>
</tr>
<tr>
<td>9</td>
<td>Conduit, grounding hub, and clamp</td>
</tr>
<tr>
<td>10</td>
<td>Ground, contact local inspection authority</td>
</tr>
<tr>
<td>11</td>
<td>Wood block, 4&quot; x 4&quot; or two 2&quot; x 4&quot; nailed together</td>
</tr>
<tr>
<td>12</td>
<td>Riser wire, insulated: size as required with 24&quot; Min. tail</td>
</tr>
<tr>
<td>13</td>
<td>Ground wire as per N.E.C</td>
</tr>
</tbody>
</table>

Previously GE-06-287.0

Drawing TMP SRVC-002.0: Typical Temporary Overhead Service
NOTES:

1. All materials are to be installed, owned and maintained by customer except as noted.

2. All PVC conduit to be schedule 40, unless exposed above ground, then conduit must be schedule 80.
NOTES:

1. Sockets with approved sealing rings shall be furnished, installed, and wired by the electrical contractor. Sockets without approved sealing rings are unacceptable.

2. Care should be exercised to design cabinet such that neither the roof nor the door frame will interfere with the clearance or the installation of the meter.
Sample 1: Temporary Service Application

Go to http://www.mid.org/forms/ for the most current Application.
Commercial Load Information Form

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

Date: __________________

Project: Sample Warehouse Expansion

Location (Street): 1234 Sample Way, Modesto, CA 95353

Owner (Name): John Doe
Telephone: (209) 565-4444
Address: 6687 Data Drive, Modesto, CA 95353

Engineer (Name): David Doe
Telephone: (209) 566-9994
Address: 7899 Sample Ct., Modesto, CA 95352

Estimated Date Ready for Service: 9-15-2016

Pre-Construction Meeting Date: __________________
Begin Rough Grading Date: __________________

Type of Business: Warehouse

Approximate Square Footage: 8638

General Information

Electric Load Information

<table>
<thead>
<tr>
<th>Initial</th>
<th>Future</th>
<th>Initial</th>
<th>Future</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td>3.4 kW</td>
<td>kW</td>
<td></td>
</tr>
<tr>
<td>Water Heater</td>
<td>1.5 kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Unit Air Heaters</td>
<td>kW</td>
<td>kW</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>Cooking Units</td>
<td>kW</td>
<td>kW</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>X-Ray (input)</td>
<td>kW</td>
<td>kW</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>Welders</td>
<td>kW</td>
<td>kW</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>Aux. Strip Heater</td>
<td>kW</td>
<td>kW</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>3Ø Motors</td>
<td>HP</td>
<td>HP</td>
<td>HP/Ton</td>
</tr>
</tbody>
</table>

Total Initial Connected Electrical Load: 56 kW
Size Main Fused Switch: 600 Amps

Total Future Connected Electrical Load: kW
Estimated Date of Future Load: __________________

Type of Service Desired: (circle one) Overhead
Underground

Phase: 3
Voltage: 208/120
Wires: 4
Estimated Initial Date: __________________

Site Plan: ( ) One site plan in dxf or Autocad format on a CD
( ) One sepia or two reproducible hard copies of the site plan; sealed
( X) Emailed electronic file to electric.standards@mid.org

Signature of Applicant:

Office Use Only

Application | Yes | Checked By: | Date: __________________|
Complete | No | If no, explain: | __________________|

Go to http://www.mid.org/forms/ for the most current Form.
APPLICATION FOR NEW SET AND TEMPORARY SERVICE

<table>
<thead>
<tr>
<th>CSR Name:</th>
<th>Receipt #:</th>
<th>Fee Amount:</th>
<th>Re-Inspection Fee:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billing Department Use Only</td>
<td>Date Received</td>
<td>Date Completed</td>
<td>Completed By:</td>
</tr>
</tbody>
</table>

Today's date: __________________________

Type of Service: New Set Temporary Service Trench Underground Overhead

Account name: __________________________________________________________

Mailing address: ________________________________________________________

Telephone Number: _____________________________________________________

1. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

2. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

3. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

4. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

5. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

6. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

7. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

8. Address: ____________________________ Account #: ___________________ Loc #: __________
   Lot #: __________________ Block #: __________ Subdivision: ________________

Signature (required for Temp Serv): __________________________

Contact Person __________________________
ID verification: Driver's License number & State (list if other)

Print Name __________________________
Title __________________________
Phone # __________________________
Date __________________________

Note: In accordance with published MID regulations, supporting documents verifying the legal billing name may be required.
Commercial 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 (Name): ___________________________ Telephone: ________________
Address: ____________________________________________
Estimated Date Ready for Service: ________________ Pre-Construction Meeting Date: ________________
Begin Rough Grading Date: ________________

General Information
Approximate Square Footage: ________________ Type of Business: ____________________________

Electric Load Information

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
<th>Future</th>
<th>Receptacles</th>
<th>Initial</th>
<th>Future</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Water Heater</td>
<td>kW</td>
<td>kW</td>
<td>Duct Air Heaters</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Unit Air Heaters</td>
<td>kW</td>
<td>kW</td>
<td>1Ø Air Conditioners</td>
<td>HP/Ton</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>Cooking Units</td>
<td>kW</td>
<td>kW</td>
<td>3Ø Air Conditioners</td>
<td>HP/Ton</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>X-Ray (input)</td>
<td>kW</td>
<td>kW</td>
<td>1Ø Heat Pump</td>
<td>HP/Ton</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>Welders</td>
<td>kW</td>
<td>kW</td>
<td>3Ø Heat Pump</td>
<td>HP/Ton</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>Aux. Strip Heater</td>
<td>kW</td>
<td>kW</td>
<td>1Ø Misc. Motors</td>
<td>HP/Ton</td>
<td>HP/Ton</td>
</tr>
<tr>
<td>3Ø Motors</td>
<td>HP</td>
<td>HP</td>
<td>Largest 3Ø Motor</td>
<td>HP/Ton</td>
<td>HP/Ton</td>
</tr>
</tbody>
</table>

Total Initial Connected Electrical Load: __________ kW  Size Main Fused Switch: __________ Amps

Total Future Connected Electrical Load: __________ kW  Estimated Date of Future Load: ________________

Type of Service Desired: (circle one) Overhead Underground

Phase: ______________  Voltage: ______________  Wires: ______________  Estimated Initial Date: ________________

Site Plan:  ( ) One site plan in dfx or Autocad format on a CD
( ) One sepia or two reproducible hard copies of the site plan; scaled
( ) Emailed electronic file to electric.standards@mid.org

Signature of Applicant

____________________________________________

Office Use Only

Application  □ Yes  Checked By: ___________________________  Date: ________________
Complete  □ No  If no, explain: ________________________________________________

9/2015
Form 3: Area Map
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  ☐ Solar Photovoltaic
☐ Agricultural  ☐ Electric Vehicle
☐ Commercial and Industrial  ☐ Residential Subdivision
☐ Temporary  ☐ Street Lighting and Miscellaneous

<table>
<thead>
<tr>
<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>
</tr>
<tr>
<td>Requirements Were Clear</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Effectiveness of Sample Forms</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>Effectiveness of Drawings</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Effectiveness of Service Guide</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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</tr>
</tbody>
</table>

Comments: _____________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

6/2014