Indianapolis Power & Light Company

Electric Service and Meter Manual

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Written by:

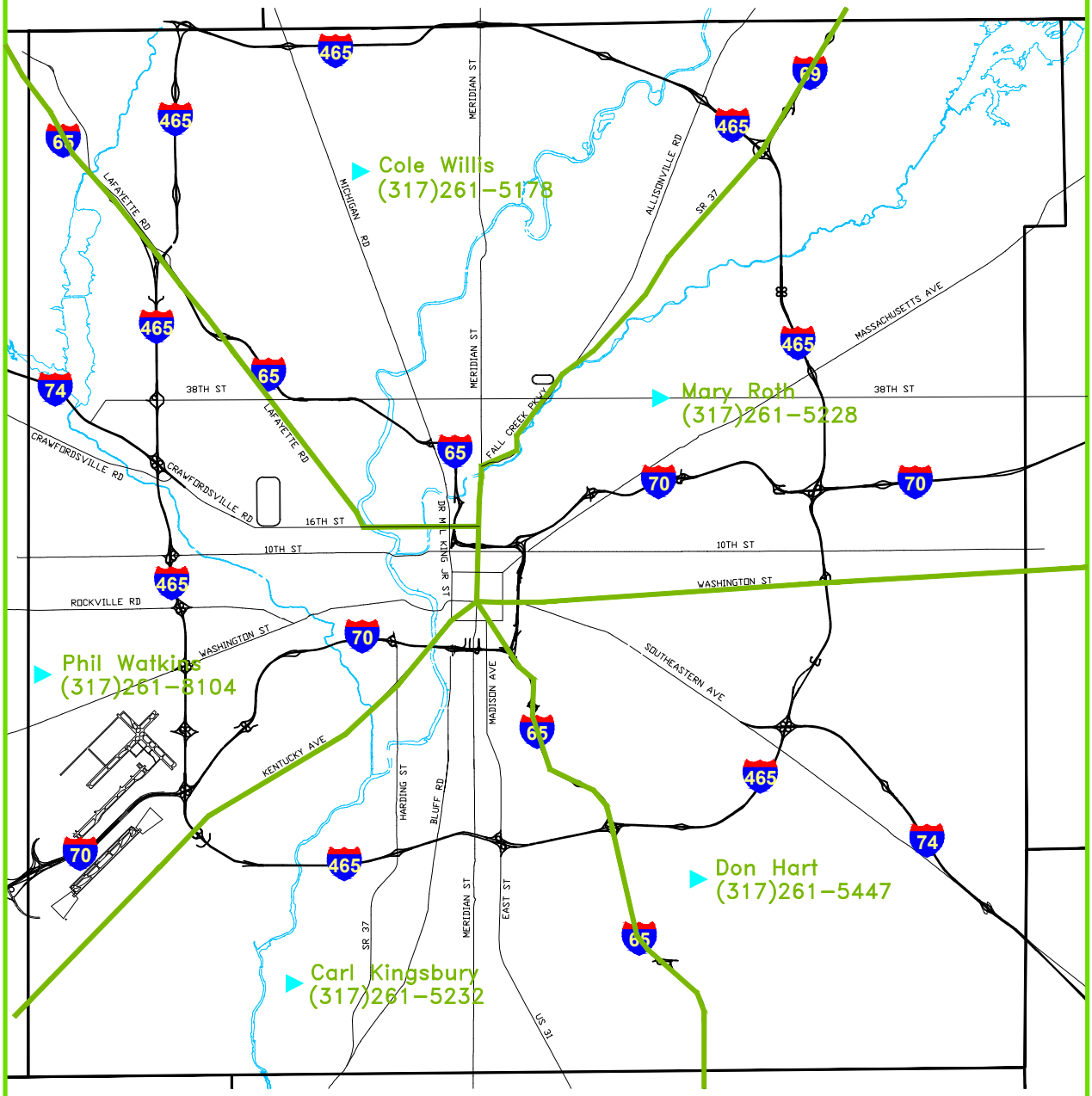
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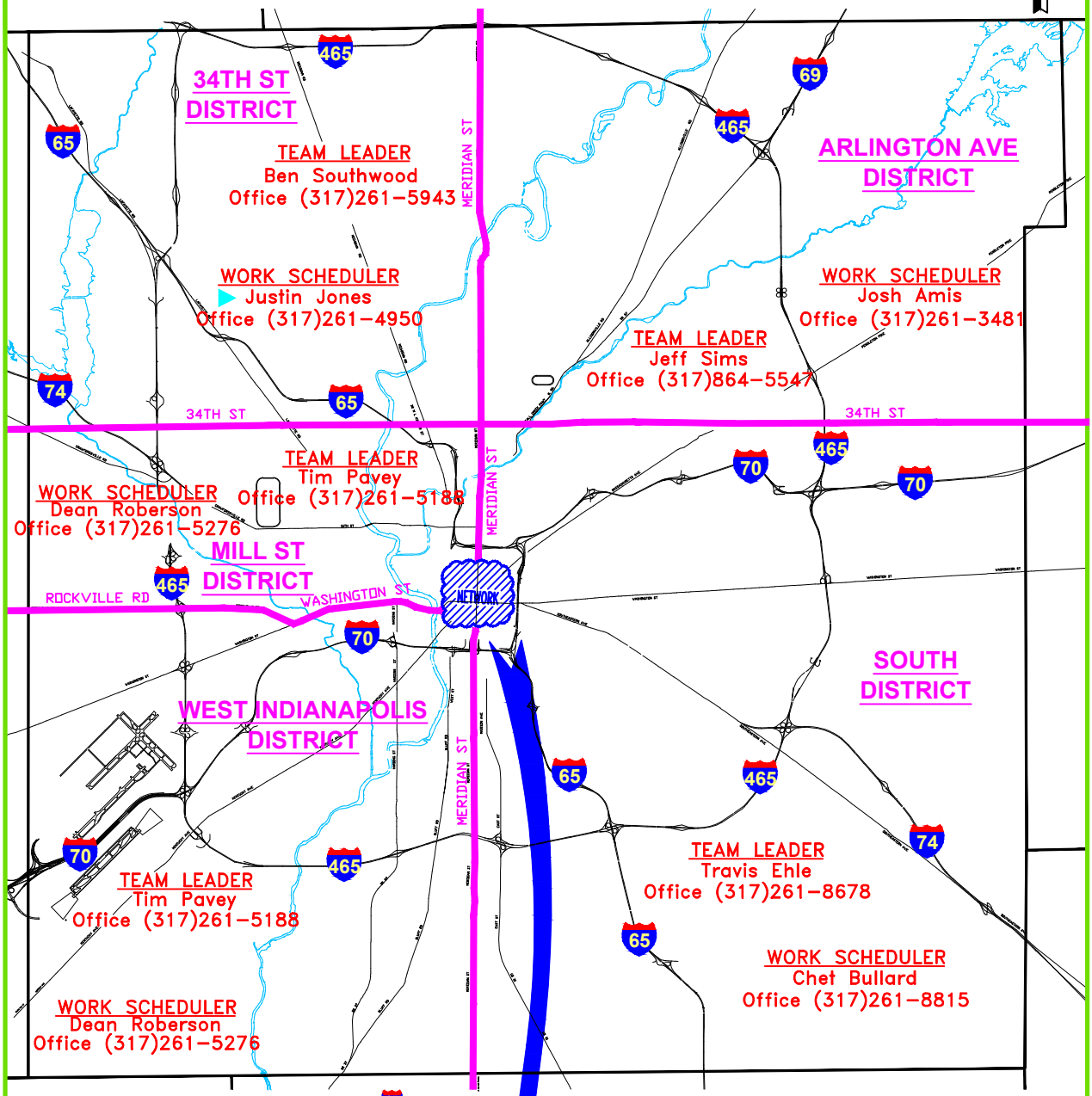
NOTE:

EMAIL ADDRESS FORMAT IS
firstname.lastname@aes.com

ACCOUNT MANAGEMENT EXECUTIVES

REV 5-29-19

GB0-120



NOTE:

Please contact the engineering department first regarding new or altered services, or other powerline questions. Refer to pages GB0-100 and GB0-110.

NOTE:

EMAIL ADDRESS FORMAT IS
firstname.lastname@aes.com

CONSTRUCTION AND MAINTENANCE DISTRICT MAP

REV 5-29-19

GB0-140

LETTER IN-LIEU OF ELECTRICAL INSPECTION FOR TEMPORARY ELECTRICAL SERVICE

(May ONLY be used for temporary services where the Authority Having Jurisdiction does not inspect temporary electrical services.)

Customer or Project Name: _____

Service Address: _____

City / Town: _____

IMPORTANT NOTICE

It is the customer's responsibility to assure that all facilities on the customer's side of the point of delivery of electricity are maintained in safe operating condition. This responsibility includes assuring that the customer's temporary electrical facilities comply with all local construction codes and safety standards. Customers should coordinate this responsibility with their architectural and engineering consultants, construction contractors, or subcontractors, as appropriate, before their temporary electrical systems are energized. Failure to do so may result in injury or damage resulting from unsafe conditions. The Indianapolis Power & Light Company is not responsible for unsafe or non-compliant conditions on the customer's side of the service point.

Customer's Certification of Readiness

The undersigned customer or its authorized representative do hereby certify to Indianapolis Power & Light Company and agree that:

1. he has read the foregoing notice and fully understand the customer's obligations for operating safety;

2. he has conferred with the architect, engineering consultant, general contractor, or subcontractor(s), as applicable and appropriate, responsible for the design and construction of the facilities, to verify that the electrical systems on the customer's side of the point of delivery have been constructed to the best of their knowledge in compliance with local construction and safety standards (including, for example, the Indiana Electrical Code);

3. he has determined and confirmed to the best of their knowledge that the electrical systems do in fact comply with these local construction and safety standards;

4. he understands and agrees that in reliance of these representations, Indianapolis Power & Light Company has agreed to energize electric service to the customer's temporary service entrance at such facilities;

5. he assumes full responsibility for any and all damages and injuries that may occur to the customer's property, employees or members of the public or other third parties as a result of conditions on the customer's side of the point of delivery at the temporary service address noted above; and

6. he hereby releases Indianapolis Power & Light Company from any and all damages, or injuries that may result as a result of the temporary electric service provided by the Indianapolis Power & Light Company provided that the temporary service meets the applicable requirements of the National Electrical Safety Code (NESC) and the standards of the Indiana Utility Regulatory Commission.

If not the owner/customer, I certify that I have the owner/customer's permission to act in his stead.

Customer/Representative Signature: _____

Customer/Representative Name: _____

Business Name: _____

Business Address: _____

_____

Telephone Number: _____

Date: _____

565 UNACCEPTABLE METER LOCATIONS - THIS IS NOT MEANT TO BE AN ALL INCLUSIVE LIST

A. Above an opening or obstruction

B. On mobile (manufactured) homes located in mobile home parks, mobile homes not approved for the installation of a meter on the side, recreational vehicles, or construction trailers.

C. Under a porch or carport, whether open or closed.

D. Within a locked enclosure. See Section 560R for more information.

E. Behind shrubbery planted close to the building.

F. Within six (6) inches of any right angle obstruction.

G. On the side of a building adjacent to a driveway or an alley.

H. Within three feet of a door, or two feet of any window or outside corner.

I. Section 110.26 of the Indiana Electrical Code shall be followed for minimum working clearances. A clear working space of at least 4 feet shall be maintained in front of the metering facilities. Safe and ready access to this area shall be provided.

J. Within three (3) feet of all gas metering, regulating equipment, and any other source of combustible quantities of gas.

570 METERING ON POLES AND UNDERGROUND FACILITIES

Meter installations on Company poles or underground facilities such as pad mount transformers, service junction boxes, etc., will not be permitted. Customer-owned poles will be permitted for metering installations if approved by the Company. The customer must provide either two conduits (one for line wires and one for load wires) or a single conduit may be used in conjunction with color-coded wire to distinguish metered and unmetered conductors. Line and load wires shall not be installed in the same conduit if the load wires have been provided overcurrent protection. Wires with painted ends shall not be used. If two conduits are used, they must be installed on the same quarter of the pole surface with the line service cap 12 inches above the load service cap.

Where the installation of more than one meter on customer-owned facilities is contemplated, such as in mobile home parks, the Engineering and Meter personnel shall be consulted for installation specifications on an individual job basis.

Only conductors in rigid conduit will be permitted for pole metering installations. See Section 220A2d for the definition of rigid conduit.

100/200 ampere, 600 Volt

(100A for up to 125 ampere service and 200A for up to 225 ampere service)

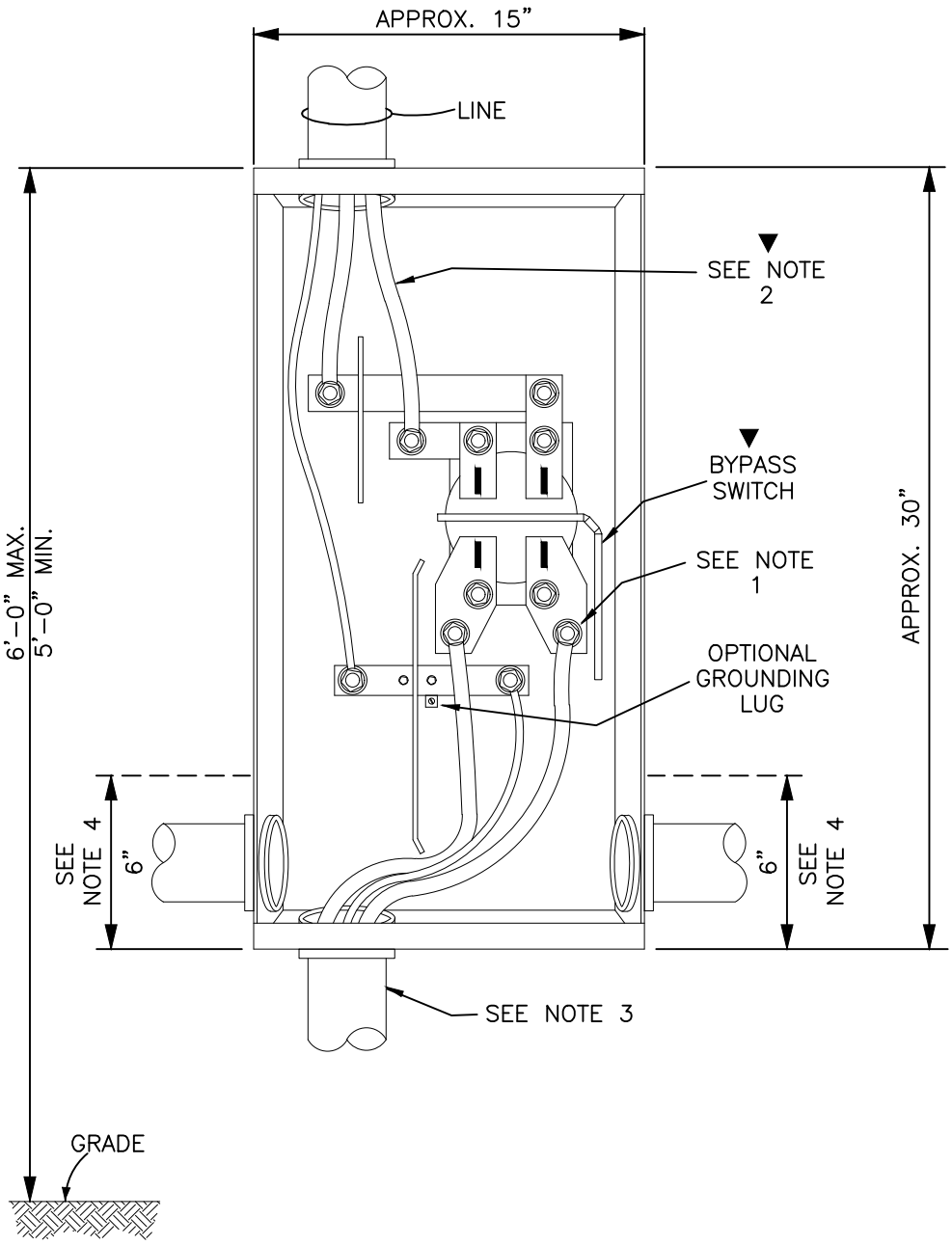
- Meter fittings shall be designed for use with standard socket type watt-hour meters.
- Meter fittings shall be in a NEMA 3R enclosure even if installed inside.
- Meter fittings shall be of the ringless type.
- Meter fittings shall have a swing style latch, which will accept padlock or wire style seals.
- Meter fittings shall be UL listed. (Listings with other Nationally Recognized Testing Laboratories are acceptable)
- Meter fittings shall be provided with a horn by-pass.
- Meter fittings shall be provided with concentric knockouts in the back, sides and bottom.
- Meter fittings shall be clearly marked with the manufacturer's name, catalog number and electrical ratings.
- Meter fittings shall have provisions for a 5th terminal.
  - Where a 5th terminal is required, it shall be listed and made by the same manufacturer as the meter fitting and for that meter fitting.
- 100 ampere meter fittings shall have tin-plated jaws and line side connectors suitable for the minimum range of 6 through 2/0 AWG CU/AL conductors. 100 ampere meter fittings shall be used for overhead services only.
- 200 ampere meter fittings shall have tin-plated jaws and line side connectors suitable for the minimum range of 6 AWG through 350 KCMIL CU/AL conductors.
- Meter fittings with a lever by-pass shall not be permitted for these size meter fittings.

320 ampere, 600 Volt

(320A meter fitting is for up to 400 amperes of service)

- Meter fittings shall be designed for use with standard socket type watt-hour meters.
- Meter fittings shall be in a NEMA 3R enclosure even if installed inside.
- Meter fittings shall be of the ringless type
- Meter fittings shall have a swing style latch, which will accept padlock or wire style seals.
- Meter fittings shall be UL listed. (Listings with other Nationally Recognized Testing Laboratories are acceptable)
- Meter fittings shall be provided with a jaw release lever by-pass.
- Meter fittings shall be provided with concentric knockouts in the back, sides and bottom.
- Meter fittings shall be clearly marked with the manufacturer's name, catalog number and electrical ratings.
- Meter fittings shall be rated at a minimum of 320 amps.
- Meter fittings shall have line side 3/8" diameter studs or tin-plated jaws and connectors suitable for the minimum range of 2/0 AWG - 600 kcmil CU/AL for terminating cable. IPL connections shall be on the left side.

CUSTOMER TO FURNISH THE METER FITTING, SEE GB1–005 FOR THE SPECIFICATIONS.



NOTES:

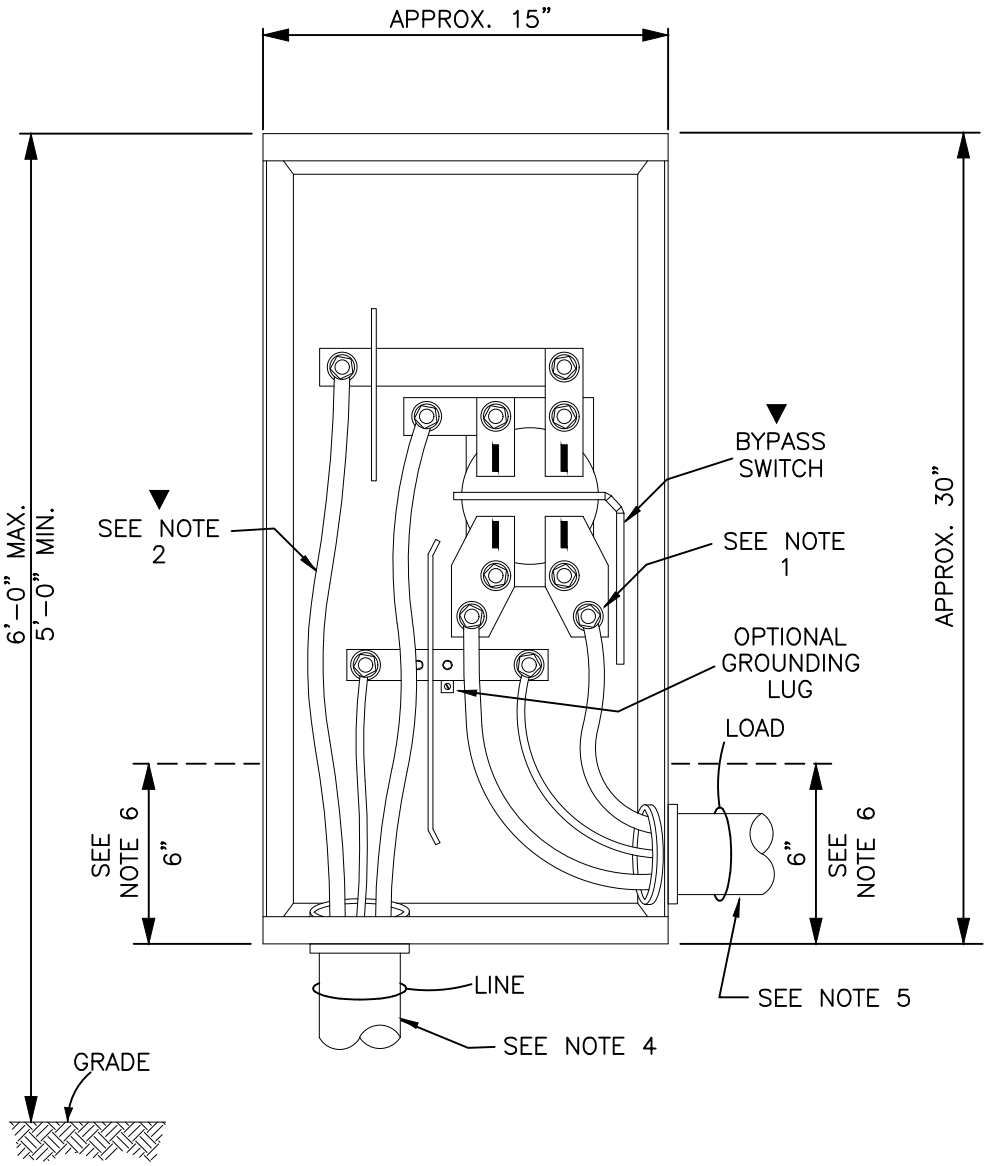
1. CONTRACTOR TO PROVIDE AND INSTALL CONNECTORS FOR CUSTOMER OWNED CABLES.
2. ▶ IPL CABLE CONNECTIONS SHALL BE ON THE LEFT SIDE OF THE METER FITTING AS SHOWN.
3. ALL CONDUIT SHALL HAVE A BUSHING FOR COMPANY CABLE, IF METALLIC CONDUIT, THE INSULATED GROUNDING BUSHING SHALL BE U.L. LISTED AND BOND WIRE INSULATED.
4. LOAD CONDUITS SHALL BE LOCATED IN LOWER 6” OF METER FITTING.
5. DIMENSIONS OF ACTUAL FITTING MAY VARY FROM THOSE SHOWN ABOVE.

320A METER FITTING
OVERHEAD INSTALLATION
120/240 VOLT, 1 PHASE, 3 WIRE
250A TO 400A SERVICE

REV 2–8–19

GB1-050

CUSTOMER TO FURNISH THE METER FITTING, SEE GB1–005 FOR THE SPECIFICATIONS.



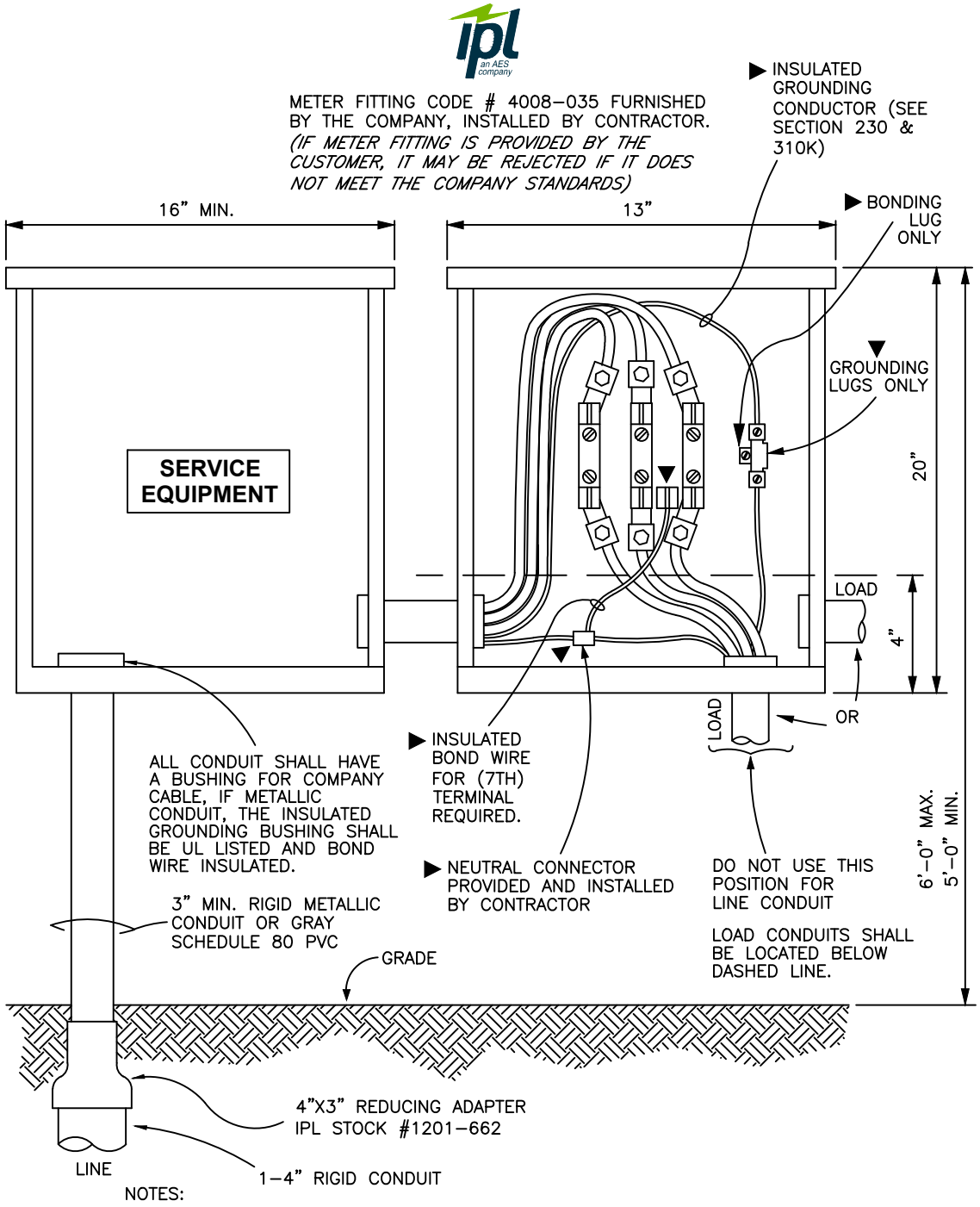
NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL CONNECTORS FOR CUSTOMER OWNED CABLES.
2. ▶ IPL CABLE CONNECTIONS SHALL BE ON THE LEFT SIDE OF THE METER FITTING AS SHOWN.
3. DIMENSIONS OF ACTUAL FITTINGS MAY VARY FROM THOSE SHOWN ABOVE.
4. MINIMUM 3" RIGID METALLIC CONDUIT OR GRAY SCHEDULE 80 PVC INSTALLED BY CONTRACTOR.
5. ALL CONDUIT SHALL HAVE A BUSHING FOR COMPANY CABLE, IF METALLIC CONDUIT, THE INSULATED GROUNDING BUSHING SHALL BE U.L. LISTED AND BOND WIRE INSULATED.
6. LOAD CONDUITS SHALL BE LOCATED IN LOWER 6" OF METER FITTING.

320A METER FITTING UNDERGROUND INSTALLATION 120/240 VOLT, 1 PHASE, 3 WIRE 250A TO 400A SERVICE

REV 2–8–19

GB1-100



NOTES:

▶ 1. CUSTOMER SHALL MAKE THE FINAL CONNECTIONS ON THE LOAD SIDE OF THE SERVICE DISCONNECT AND IN THE METER FITTING.

▶ 2. THE LINE AND LOAD CONDUCTORS IN THE SERVICE EQUIPMENT AND METER FITTING SHALL NOT CROSS.

3. THE SERVICE EQUIPMENT SHALL BE PERMANENTLY LABELED BY THE CUSTOMER, "SERVICE EQUIPMENT".

4. ALL 277/480 VOLT METER FITTINGS SHALL BE IN COLD SEQUENCE, SEE SECTION 550A7 FOR THE DEFINITION, AND THE SERVICE DISCONNECT SHALL BE IN A LOCKABLE ENCLOSURE.

▶ 5. THE SERVICE CABLE FROM IPL IS NORMALLY 4/0 AL., ALLOW PROPER WIRE BENDING SPACE FOR THIS CABLE.

200 A METER FITTING UNDERGROUND INSTALLATION 277/480 VOLT, 3 PHASE, 4 WIRE 225 A MAXIMUM SERVICE

REV 5–29–19

GB3-044