

Engineering Service Specifications

**Commercial Service Requirements
for Multiple Occupancy Buildings**

SLEMCO
Specifications for Commercial Metering Requirements for Three-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Applicable to an Owner requiring commercial services receiving three-phase power at 120/208 volts (V) from a new underground padmount transformer to a multiple occupancy building. Applicable to commercial services receiving three-phase power through a 200 Amp (A) meter base attached to building requiring services with service conductors entering through an underground conduit from the padmount transformer to bottom of meter base. Also applicable to commercial services requiring greater than 200A through applicable metering equipment (*meter base and CT enclosure*) that will be attached to building requiring services with service conductors entering through an underground conduit from the padmount transformer to bottom of CT enclosure. Current transformers (CTs) are enclosed within the CT enclosure. Drawing No. 24 illustrates a basic three-phase configuration of a multiple occupancy building.

The maximum SLEMCO allowable load that a new underground padmount transformer can serve is 1200A. Therefore, the maximum number of commercial services receiving three-phase power through a 200A meter base from a new underground padmount transformer is six (6). Furthermore, the combination of commercial services receiving three-phase power through a 200A meter base and requiring greater than 200A through applicable metering equipment must not exceed 1200A.

The party responsible for the multiple occupancy building is referred to as the Owner. All commercial services will provide power to customers within sections of the multiple occupancy building that are divided by firewalls approved by Governing Authorities. Each of these customers will require an independent commercial service from the transformer. There will be no multiple metered customers from one service allowed.

The *Point of Connection* is the point of demarcation between SLEMCO and the customer. It shall be the customer's responsibility for compliance with the National Electrical Code (NEC) and any Governing Authority for all equipment beyond the *Point of Connection*. The Owner is advised to use the services of a qualified electrician to assure compliance with all codes and regulations.

It should be noted that electrical pipe is the gray pipe and white water pipe is not acceptable. Therefore, schedule 40 or 80 electrical pipe discussed in this section is approved electrical conduit.

Items marked with 16 20 are indicated on the following drawings:

16 Drawing No.16 – *Three-Phase Current Transformer Metering Requirements from a New Padmount Transformer*

20 Drawing No.20 – *Three-Phase Underground Service Requirements from a New Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: 16(A) Drawing No. 16 item A.

1. Secondary conductors furnished and installed by Owner. 16(A) 20(A) The secondary conductors shall be sized according to the load, as required by the NEC or Governing Authority. Diesel Locomotive (DLO) conductors are prohibited. The neutral of the secondary conductors shall be sized no smaller than two sizes less than the other conductors. An extension of at least 48" of secondary conductor is required to be left out of conduit at padmount transformer location. Termination of conductors in padmount transformer (*Point of Connection*) performed by Owner.

SLEMCO
**Specifications for Commercial Metering Requirements for Three-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer**

Items marked with **16** **20** are indicated on the following drawings:

16 Drawing No.16 – *Three-Phase Current Transformer Metering Requirements from a New Padmount Transformer*

20 Drawing No.20 – *Three-Phase Underground Service Requirements from a New Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: **16**^(A) Drawing No. 16 item A.

- 1.1 Commercial Services greater than 200A: Secondary conductors from transformer (*Point of Connection*) to disconnect switch will be terminated in disconnect switch by Owner. Wire trough is optional. Each pole of the disconnect switch will only be allowed one lug attachment. Therefore, multi-conductor connections to a single pole made within the disconnect switch must include a multi-conductor lug. More than one conductor connected within a single lug will not be allowed.
- 1.2 200A Commercial Services: Secondary conductors from transformer (*Point of Connection*) to meter base will be terminated in meter by Owner.
2. Secondary conduit furnished and installed by Owner. The Owner is required to trench and install one (1) electrical conduit (3" *minimum*) per conductor run. Electrical schedule 40 pipe is acceptable for below ground use. **16**^(B) **20**^(B)
3. 3.1 Commercial Services greater than 200A: Above ground riser conduit must be a minimum of a 3" electrical schedule 80 pipe. **16**^(C) If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used.
3.2 200A Commercial Services: Owner will complete installation of above ground riser conduit into bottom left side of meter base using a minimum of a 3" electrical schedule 80 pipe. **20**^{(C)(H)} If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used.
4. 4.1 Commercial Services greater than 200A: No standard steel 90° elbows are allowed since conduit will house conductors carrying greater than 200 Amps. Therefore, any underground service that requires three 90° turns or is further than 150', the Owner must use PVC long radius 90° elbows with a 48" turn. A maximum of three 90° turns are allowed. Any underground service which is less than 150' with two or less 90° turns, the Owner is allowed to use PVC long radius 90° elbows with a 36" turn. **16**^(D)
4.2 200A Commercial Services: Any underground service that requires three 90° turns or is further than 150', the Owner must use standard steel 90° elbows with an 18" turn. A maximum of three 90° turns are allowed. Any underground service which is less than 150' with two or less 90° turns, the Owner is allowed to use PVC long radius 90° elbows with a 36" turn. **20**^(D)
5. Owner must maintain a depth of 36" when installing electrical conduit for secondary conductors. **16**^(E) **20**^(E)

SLEMCO
Specifications for Commercial Metering Requirements for Three-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Items marked with 16 20 are indicated on the following drawings:

16 Drawing No.16 – *Three-Phase Current Transformer Metering Requirements from a New Padmount Transformer*

20 Drawing No.20 – *Three-Phase Underground Service Requirements from a New Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: 16(A) Drawing No. 16 item A.

6. Padmount transformer foundation constructed and grounded by Owner according to *Drawing No. 14 - Three-Phase Padmount Transformer Foundation*. SLEMCO must inspect foundation before concrete is poured. Padmount transformer furnished and installed by SLEMCO. 16(F) 20(F)
7. The Owner shall stub up the primary and secondary electrical conduit as indicated on *Drawing No. 14 - Three-Phase Padmount Transformer Foundation* at the location of new padmount transformer.
8. After trenching, all trenches may be backfilled and covered by Owner.
9. Meter base furnished by SLEMCO and installed by Owner. The meter base shall be mounted on the outside of the building such that the center of the meter socket window is between 5' and 6' above finished grade. 16(I) 20(I)
10. Commercial Services greater than 200A: CTs furnished by SLEMCO. Must be mounted to back of CT enclosure by Owner. 16(J)
11. Commercial Services greater than 200A: CT enclosure is to be supplied by Owner and must be a minimum of 30" x 36" x 10". The CT enclosure must have a way to secure the door with a SLEMCO padlock. When installed by Owner, the bottom of the CT enclosure should be at a height of 2' to 4' above finished grade. 16(K)
12. Commercial Services greater than 200A: The electrical conduit from CT enclosure to meter base shall be 1" electrical schedule 40 pipe. 16(L) This conduit will be furnished and installed by Owner. If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used.
13. Commercial Services greater than 200A: A ground lug will be installed by Owner in the CT enclosure and must be attached with a nut and bolt. 16(M) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.

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Specifications for Commercial Metering Requirements for Three-Phase
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Served from a New Underground Padmount Transformer

Items marked with 16 20 are indicated on the following drawings:

16 Drawing No.16 – *Three-Phase Current Transformer Metering Requirements from a New Padmount Transformer*

20 Drawing No.20 – *Three-Phase Underground Service Requirements from a New Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: 16(A) Drawing No. 16 item A.

14. **14.1 Commercial Services greater than 200A:** The Owner will be responsible to furnish a metering ground wire (*minimum #6 soft drawn copper or #6 insulated copper*) and install this wire from the meter base through CT enclosure and disconnect switch to the optional wire trough. This metering ground wire must be continuous and installed in electrical conduit between the meter base, CT enclosure, disconnect switch, and optional wire trough. The metering ground wire must be connected to the ground lugs in the meter base, CT enclosure, disconnect switch, and the grounding buss bar inside of the optional wire trough. If optional wire trough is omitted, the metering ground wire would end in the disconnect switch. 16(N) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.
- 14.2 200A Commercial Services:** The Owner will be responsible to furnish the meter base ground wire (*minimum #6 soft drawn copper*) and install this wire in electrical conduit from the meter base to the ground rod. The meter base ground wire shall be connected in the ground wire lug, where provided, and not in the service neutral lug. 20(K)
15. **Commercial Services greater than 200A:** Main ground wire shall be furnished and installed by Owner. The main ground wire must be continuous and installed in 1/2" electrical conduit between optional wire trough and the first ground rod. The continuous main ground wire must be connected to the grounding buss bar inside of the optional wire trough and each of the ground rods. If the optional wire trough is omitted, then the main ground wire must be continuous and installed in 1/2" electrical conduit between disconnect switch and the first ground rod. The continuous main ground wire must be connected to the grounding buss bar inside of the disconnect switch and each of the ground rods, if the optional wire trough is omitted. 16(O) The main ground wire shall be sized according to the load, as required by the NEC or Governing Authority.
16. **16.1 Commercial Services greater than 200A:** Ground rods, minimum of two 5/8" x 8' copperweld or 1/2" x 8' copper, furnished and installed by Owner. Must have one ground rod for every 200 Amps of service. Ground rods shall be installed 6' apart. Ground rods must be set 1" below finished grade. 16(P) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.
- 16.2 200A Commercial Services:** Ground rod, minimum 5/8" x 8' copperweld or 1/2" x 8' copper, furnished and installed by Owner. Ground rod is to be set 1" below finished grade. 20(L) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.

SLEMCO
Specifications for Commercial Metering Requirements for Three-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

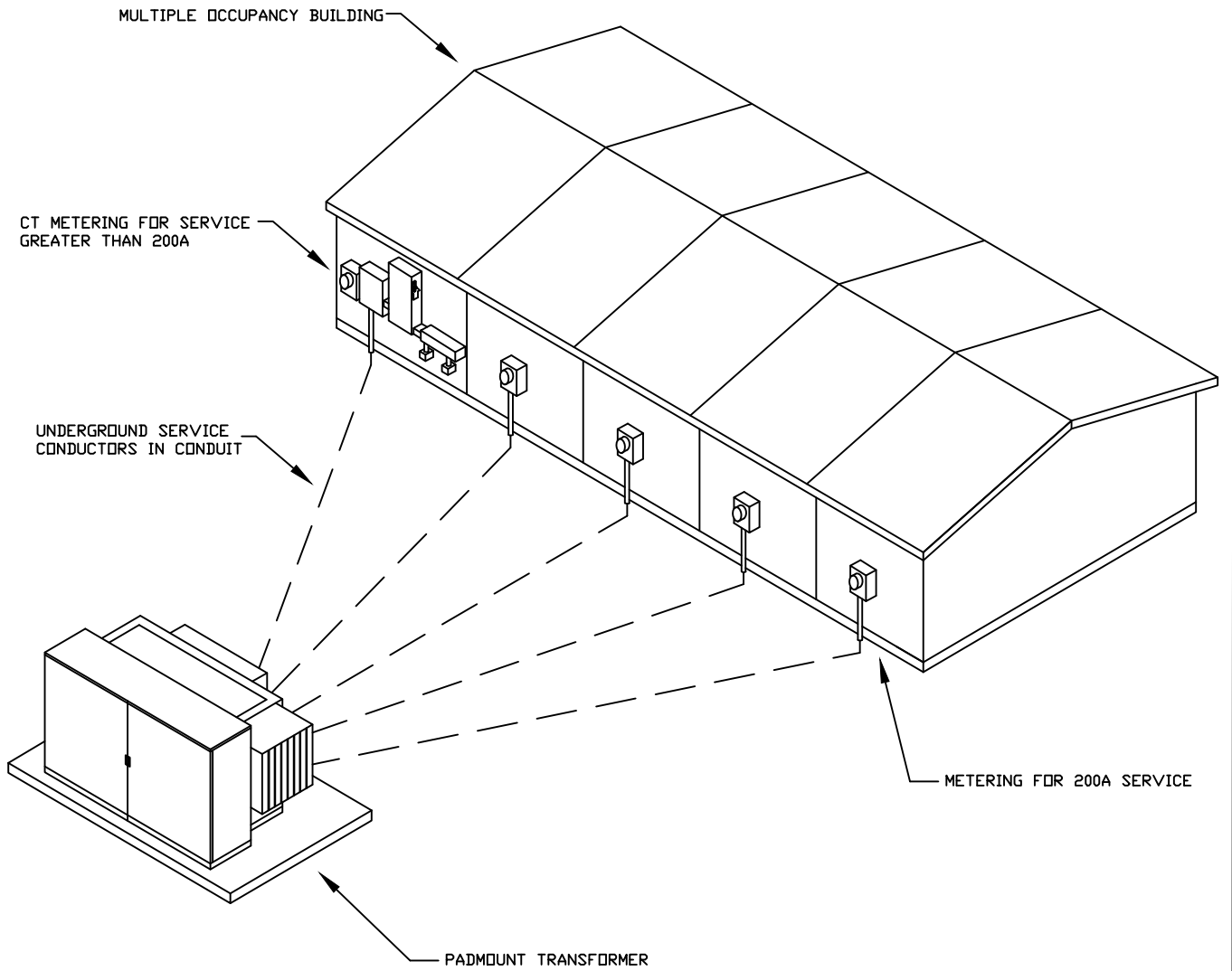
Items marked with 16 20 are indicated on the following drawings:


16 Drawing No.16 – *Three-Phase Current Transformer Metering Requirements from a New Padmount Transformer*

20 Drawing No.20 – *Three-Phase Underground Service Requirements from a New Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: 16(A) Drawing No. 16 item A.

17. Commercial Services greater than 200A: Disconnect switch isolates power from services connected. Disconnect switch furnished and installed by Owner between the CT Enclosure and services connected (*wire trough optional*). Disconnect switch is for SLEMCO use only and shall be locked and sealed open or closed by use of SLEMCO padlock. Disconnect switch shall be a three pole, be non-fused or fused with properly sized slugged (*dummy/neutral*) fuse, have a voltage rating of at least 240V, and have an ampacity rating no less than the total of the amp ratings of all connected services. Enclosure for disconnect switch shall be UL listed, be weather proof and rain tight (*NEMA 3R*), have a locking mechanism to secure it in the open or close position with a SLEMCO padlock. 16(Q) All terminations within disconnect switch will be made by Owner. Any multi-conductor connections to a single pole made within the disconnect switch must include a multi-conductor lug. More than one conductor connected within a single lug will not be allowed. The electrical conduit from CT enclosure to disconnect switch shall be a minimum of 3" electrical schedule 40 pipe. This conduit will be furnished and installed by Owner. If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used.
18. **18.1** Commercial Services greater than 200A: Main disconnects (*service panels*) and optional wire trough shall be furnished and installed by customer as required by the NEC or Governing Authority. 16(R) All terminations will be made in optional wire trough or to main disconnect by Owner.
18.2 200A Commercial Services: The main disconnect (*service panel*) and customer conductors (*from the meter base to the main disconnect*) are furnished and installed by Owner. The main disconnect shall be sized for 200 amps and located within 3' of the meter base. The customer conductors shall be sized for 200 Amps of load, as required by the NEC or Governing Authority. The main disconnect and or other electrical equipment may be mounted on the outside of the building. However, it must be of weather proof and watertight design to be mounted on the outside. 20(J)
19. Variations of this design may be considered equal as long as NEC requirements are met. To assure acceptability where variations arise, contact SLEMCO prior to installation.
20. If a Governing Authority requires inspection, inspection tag must be in place and marked approved before SLEMCO will connect service. 16(T) 20(N)
21. Prior to secondary service connection and meter installation, a SLEMCO serviceman must inspect the total job for readiness. When ready for this inspection, notify the Lafayette Service Department by calling (337) 896-5551.



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|  | SOUTHWEST LOUISIANA ELECTRIC MEMBERSHIP CORPORATION <small>LOUISIANA 9 LAFAYETTE</small> | | | | |
| | SAMPLE CONFIGURATION OF CUSTOMERS WITHIN A MULTIPLE OCCUPANCY BUILDING SERVED FROM 3-PHASE PADMOUNT TRANSFORMER | | | | |
| DRAWN BY: DATIS CHRISTOPHE JR. | | CREATED ON: 02/06/19 | SCALE: N.T.S. | | |
| REVISIONS | REVISED BY | DATE | REV. | DRAWING NO. | REV. |
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SLEMCO ELECTRICAL STANDARDS

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SLEMCO
Specifications for Commercial Metering Requirements for Single-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Applicable to an Owner requiring commercial services receiving single-phase power at 120/240 volts (V) from a new underground padmount transformer to a multiple occupancy building. Applicable to commercial services receiving single-phase power through a 200 Amp (A) meter base attached to building requiring services with service conductors entering through an underground conduit from the padmount transformer to bottom of meter base. Also applicable to commercial services requiring greater than 200A through applicable metering equipment (*meter base and CT enclosure*) that will be attached to building requiring services with service conductors entering through an underground conduit from the padmount transformer to bottom of CT enclosure. Current transformers (CTs) are enclosed within the CT enclosure. Drawing No. 25 illustrates a basic single-phase configuration of a multiple occupancy building.

The maximum SLEMCO allowable load that a new underground padmount transformer can serve is 800A. Therefore, the maximum number of commercial services receiving power through a 200A meter base from a new underground padmount transformer is four (4). Furthermore, the combination of commercial services receiving phase power through a 200A meter base and requiring greater than 200A through applicable metering equipment must not exceed 800A.

The party responsible for the multiple occupancy building is referred to as the Owner. All commercial services will provide power to customers within sections of the multiple occupancy building that are divided by firewalls approved by Governing Authorities. Each of these customers will require an independent commercial service from the transformer. There will be no multiple metered customers from one service allowed.

The *Point of Connection* is the point of demarcation between SLEMCO and the customer. It shall be the customer's responsibility for compliance with the National Electrical Code (NEC) and any Governing Authority for all equipment beyond the *Point of Connection*. The Owner is advised to use the services of a qualified electrician to assure compliance with all codes and regulations.

It should be noted that electrical pipe is the gray pipe and white water pipe is not acceptable. Therefore, schedule 40 or 80 electrical pipe discussed in this section is approved electrical conduit.

Items marked with ⑩ are indicated on the Drawing No. 10 – *Single-Phase Current Transformer Metering Requirements from a new Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: ⑩^(A) Drawing No. 10 item A.

1. **1.1 Commercial Services greater than 200A and up to 400A:** Secondary conductors furnished and installed by SLEMCO. ⑩^(A) Secondary conductors will be terminated by SLEMCO in transformer and at source side of the disconnect switch (*Point of Connection*).

SLEMCO
Specifications for Commercial Metering Requirements for Single-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Items marked with ③⑩ are indicated on the following drawings:

③ Drawing No.3 – *Single-Phase Underground Service Requirements from a new Padmount Transformer*

⑩ Drawing No.10 – *Single-Phase Current Transformer Metering Requirements from a new Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: ⑩^(A) Drawing No. 10 item A.

- 1.2 Commercial Services greater than 400A: Secondary conductors from transformer (*Point of Connection*) to disconnect switch furnished and installed by Owner. ⑩^(A) The secondary conductors shall be sized according to the load, as required by the NEC or Governing Authority. Diesel Locomotive (*DLO*) conductors are prohibited. Termination of conductors must be made in disconnect switch by Owner. Wire trough is optional. Each pole of the disconnect switch will only be allowed one lug attachment. Therefore, multi-conductor connections to a single pole made within the disconnect switch must include a multi-conductor lug. More than one conductor connected within a single lug will not be allowed. An extension of at least 48" of secondary conductor is required to be left out of conduit at padmount transformer location. Termination of conductors in padmount transformer (*Point of Connection*) performed by Owner.
- 1.3 200A Commercial Services: Secondary conductors furnished and installed by SLEMCO. ③^(A) Secondary conductors will be terminated by SLEMCO in transformer and at source side of the meter base (*Point of Connection*).
2. Secondary conduit furnished and installed by Owner. After trenching, the trench may be backfilled and covered. Conduit must be a minimum of a 3" electrical conduit. Electrical schedule 40 pipe is acceptable for below ground use. ③^(B)⑩^(B)
3. 3.1 Commercial Services greater than 200A: Above ground riser conduit must be a minimum of a 3" electrical schedule 80 pipe. If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used. ⑩^(C)
3.2 200A Commercial Services: Owner will complete installation of above ground riser conduit into bottom left side of meter base using a minimum of a 2" electrical schedule 80 pipe. If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used. ③^(C)
4. 4.1 Commercial Services greater than 200A: No standard steel 90° elbows are allowed since conduit will house conductors carrying greater than 200 Amps. Therefore, any underground service that requires three 90° turns or is further than 150', the Owner must use PVC long radius 90° elbows with a 48" turn. A maximum of three 90° turns are allowed. Any underground service which is less than 150' with two or less 90° turns, the Owner is allowed to use PVC long radius 90° elbows with a 36" turn. ⑩^(D)
4.2 200A Commercial Services: Any underground service that requires three 90° turns or is further than 150', the Owner must use standard steel 90° elbows with an 18" turn. A maximum of three 90° turns are allowed. Any underground service which is less than 150' with two or less 90° turns, the Owner is allowed to use PVC long radius 90° elbows with a 36" turn. ③^(D)

SLEMCO
Specifications for Commercial Metering Requirements for Single-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Items marked with ③⑩ are indicated on the following drawings:

③ Drawing No.3 – *Single-Phase Underground Service Requirements from a new Padmount Transformer*

⑩ Drawing No.10 – *Single-Phase Current Transformer Metering Requirements from a new Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: ⑩^(A) Drawing No. 10 item A.

5. Owner must maintain a depth of 36" when installing electrical conduit for secondary conductors. ③^(E)⑩^(E)
6. The Owner shall stub up the primary and secondary electrical conduit next to each other at the location of new padmount transformer. ③^(F)⑩^(F) See the next section entitled, *Specifications for Residential Underground Primary Requirements*, for details on primary installation.
7. After trenching, all trenches may be backfilled and covered by Owner.
8. Owner will install polypropylene pull string (*minimum strength of 210 lbs.*) in all electrical conduits that will require SLEMCO to install conductors.
9. **9.1 Commercial Services greater than 200A:** Meter base furnished by SLEMCO and installed by Owner. The meter base shall be mounted on the outside of the building such that the center of the meter socket window is between 5' and 6' above finished grade. ⑩^(H)
9.2 200A Commercial Services: Meter base furnished and installed by Owner. The meter base shall be mounted on the outside of the building such that the center of the meter socket window is between 5' and 6' above finished grade. ③^(J) When purchasing a meter base for underground service please specify hubless or underground meter base. The meter base shall conform to SLEMCO's standards and shall be compatible with SLEMCO metering. The meter base shall be rated for 200 Amps.
10. **Commercial Services greater than 200A:** CTs furnished by SLEMCO. Must be mounted to back of CT enclosure by Owner. ⑩^(I)
11. **Commercial Services greater than 200A:** CT enclosure is to be supplied by Owner and must be a minimum of 24" x 24" x 10". The CT enclosure must have a way to secure the door with a SLEMCO padlock. When installed by Owner, the bottom of the CT enclosure should be at a height of 2' to 4' above finished grade. ⑩^(J)
12. **Commercial Services greater than 200A:** The electrical conduit from CT enclosure to meter base shall be 1" electrical schedule 40 pipe. ⑩^(K) This conduit will be furnished and installed by Owner. If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used.
13. **Commercial Services greater than 200A:** A ground lug will be installed by Owner in the CT enclosure and must be attached with a nut and bolt. ⑩^(L) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.

SLEMCO
Specifications for Commercial Metering Requirements for Single-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Items marked with ③⑩ are indicated on the following drawings:

③ Drawing No.3 – *Single-Phase Underground Service Requirements from a new Padmount Transformer*

⑩ Drawing No.10 – *Single-Phase Current Transformer Metering Requirements from a new Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: ⑩^(A) Drawing No. 10 item A.

14. **14.1 Commercial Services greater than 200A:** The Owner will be responsible to furnish a metering ground wire (*minimum #6 soft drawn copper or #6 insulated copper*) and install this wire from the meter base through CT enclosure and disconnect switch to the optional wire trough. This metering ground wire must be continuous and installed in electrical conduit between the meter base, CT enclosure, disconnect switch, and optional wire trough. The metering ground wire must be connected to the ground lugs in the meter base, CT enclosure, disconnect switch, and the grounding buss bar inside of the optional wire trough. If optional wire trough is omitted, the metering ground wire would end in the disconnect switch. ⑩^(M) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.
- 14.2 200A Commercial Services:** The Owner will be responsible to furnish the meter base ground wire (*minimum #6 soft drawn copper*) and install this wire in electrical conduit from the meter base to the ground rod. The meter base ground wire shall be connected in the ground wire lug, where provided, and not in the service neutral lug. ③^(L)
15. **Commercial Services greater than 200A:** Main ground wire shall be furnished and installed by Owner. The main ground wire must be continuous and installed in ½" electrical conduit between optional wire trough and the first ground rod. The continuous main ground wire must be connected to the grounding buss bar inside of the optional wire trough and each of the ground rods. If the optional wire trough is omitted, then the main ground wire must be continuous and installed in ½" electrical conduit between disconnect switch and the first ground rod. The continuous main ground wire must be connected to the grounding buss bar inside of the disconnect switch and each of the ground rods, if the optional wire trough is omitted. ⑩^(N) The main ground wire shall be sized according to the load, as required by the NEC or Governing Authority.
16. **16.1 Commercial Services greater than 200A:** Ground rods, minimum of two 5/8" x 8' copperweld or 1/2" x 8' copper, furnished and installed by Owner. Must have one ground rod for every 200 Amps of service. Ground rods shall be installed 6' apart. Ground rods must be set 1" below finished grade. ⑩^(O) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.
- 16.2 200A Commercial Services:** Ground rod, minimum 5/8" x 8' copperweld or 1/2" x 8' copper, furnished and installed by Owner. Ground rod is to be set 1" below finished grade. ③^(M) This is the minimum required by SLEMCO. Additional grounding may be required by the NEC or Governing Authority.

SLEMCO
Specifications for Commercial Metering Requirements for Single-Phase
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Served from a New Underground Padmount Transformer

Items marked with ③⑩ are indicated on the following drawings:

③ Drawing No.3 – *Single-Phase Underground Service Requirements from a new Padmount Transformer*

⑩ Drawing No.10 – *Single-Phase Current Transformer Metering Requirements from a new Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: ⑩^(A) Drawing No. 10 item A.

17. Commercial Services greater than 200A: Disconnect switch isolates power from services connected. Disconnect switch furnished and installed by Owner between the CT Enclosure and services connected (*wire trough optional*). Disconnect switch is for SLEMCO use only and shall be locked and sealed open or closed by use of SLEMCO padlock. Disconnect switch shall be a double pole, be non-fused or fused with properly sized slugged (*dummy/neutral*) fuse, have a voltage rating of at least 120/240V, and have an ampacity rating no less than the total of the amp ratings of all connected services. Enclosure for disconnect switch shall be UL listed, be weather proof and rain tight (*NEMA 3R*), have a locking mechanism to secure it in the open or close position with a SLEMCO padlock. ⑩^(P) The electrical conduit from CT enclosure to disconnect switch shall be a minimum of 3" electrical schedule 40 pipe. This conduit will be furnished and installed by customer. If elbows are required, then PVC elbows shall be used. LB elbows and flex conduit cannot be used.

Any multi-conductor connections to a single pole made within the disconnect switch must include a multi-conductor lug. More than one conductor connected within a single lug will not be allowed.

17.1 Services up to 400A: SLEMCO will be responsible for terminations to the source side of the disconnect switch. Customer will be responsible for terminations to the load side of the disconnect switch.

17.2 Services greater than 400A: Customer will be responsible for all terminations in the disconnect switch.

18. **18.1** Commercial Services greater than 200A: Main disconnects (*service panels*) and optional wire trough shall be furnished and installed by customer as required by the NEC or Governing Authority. ⑩^(Q) All terminations will be made in optional wire trough or to main disconnect by Owner.

18.2 200A Commercial Services: The main disconnect (*service panel*) and customer conductors (*from the meter base to the main disconnect*) are furnished and installed by Owner. The main disconnect shall be sized for 200 amps and located within 3' of the meter base. The customer conductors shall be sized for 200 Amps of load, as required by the NEC or Governing Authority. The main disconnect and or other electrical equipment may be mounted on the outside of the building. However, it must be of weather proof and watertight design to be mounted on the outside. ③^(K)

19. Variations of this design may be considered equal as long as NEC requirements are met. To assure acceptability where variations arise, contact SLEMCO prior to installation.

SLEMCO
Specifications for Commercial Metering Requirements for Single-Phase
Customers within Multiple Occupancy Building
Served from a New Underground Padmount Transformer

Items marked with ③⑩ are indicated on the following drawings:

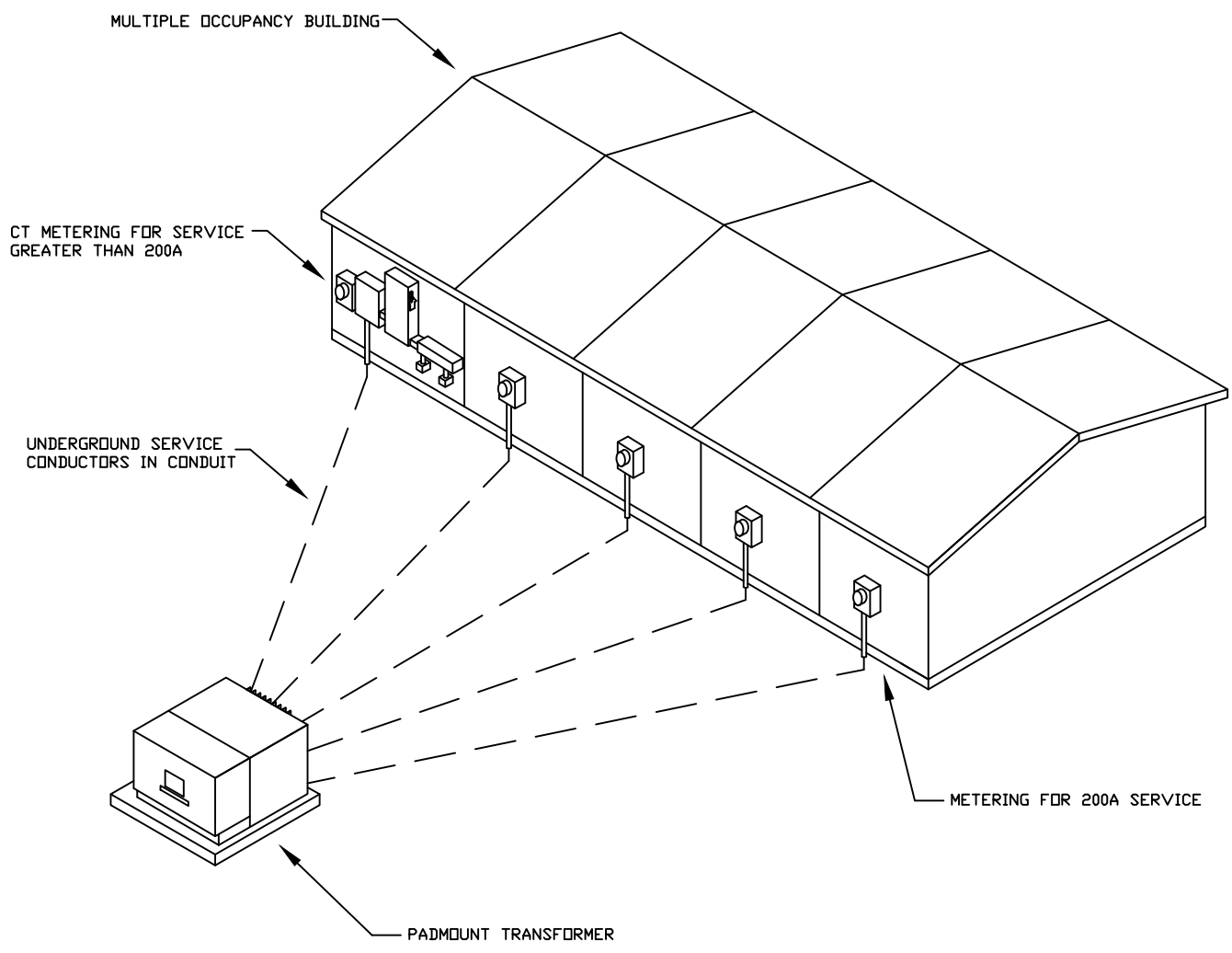
③ Drawing No.3 – *Single-Phase Underground Service Requirements from a new Padmount Transformer*


⑩ Drawing No.10 – *Single-Phase Current Transformer Metering Requirements from a new Padmount Transformer*

Letters in parentheses are indicated on drawings. Example: ⑩^(A) Drawing No. 10 item A.

20. If a Governing Authority requires inspection, inspection tag must be in place and marked approved before SLEMCO will connect service. ③^(O)⑩^(S)

21. Prior to secondary service connection and meter installation, a SLEMCO serviceman must inspect the total job for readiness. When ready for this inspection, notify the Lafayette Service Department by calling (337) 896-5551.



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|  | SOUTHWEST LOUISIANA ELECTRIC MEMBERSHIP CORPORATION LOUISIANA 9 LAFAYETTE | | | | |
| | SAMPLE CONFIGURATION OF CUSTOMERS WITHIN A MULTIPLE OCCUPANCY BUILDING SERVED FROM 1-PHASE PADMOUNT TRANSFORMER | | | | |
| DRAWN BY: DATIS CHRISTOPHE JR. | | CREATED ON: 02/06/19 | SCALE: N.T.S. | | |
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