



| ITEM | QTY.      | MATERIAL  |
|------|-----------|---|
| 1*   | 1         | Meter base, provided & installed by customer.     |
| 2    | 1         | Main disconnect switch.                           |
| 3    | 1**       | Meter disconnect switch (non-fused).              |
| 4    | As Req'd. | 4" SCH 80 PVC above grade.                        |
| 5    | As Req'd. | 4" SCH 40 PVC or fiberglass. (24" minimum radius) |
| 6    | 1         | Nonmetallic conduit for ground wire.              |
| 7    | 2         | Ground rod, 5/8" x 8'-0 min. per NEC.             |
| 8    | As Req'd. | 4" SCH 40 PVC to electric utility source          |

\* See approved meter base list - EM800

\*\* Meter disconnect switch ONLY required on 277/480V services

- If the meter base has a main disconnect, the grounding conductor shall be bonded in the meter base. Otherwise, it will be bonded to the main panel, not both. Communications ground connections shall not be bonded to the meter base.

|                                   |   |                   |      |
|-----------------------------------|---|-------------------|------|
| CITY OF AMES<br>ELECTRIC SERVICES | COMMERCIAL SERVICE<br>THREE PHASE<br>600A & BELOW<br>DIRECT METERED | ELECTRIC METERING |      |
|                                   |   | EM706             |      |
| REVISED: MEI 8/19/21              |   | PAGE 1            | OF 2 |
| APPROVED:                         |   |                   |      |

NOTES:

1. Obtain a permit from the City of Ames Inspection Department, located at City Hall, 515 Clark Ave.
2. The meter shall be installed outside at a location approved by the City of Ames Electric Meter Division 239-5510.
3. All commercial meter bases shall have a lever-operated jaw release style bypass for the full ampere rating of the meter base. See the approved meter base list - EM800.
4. The meter disconnect switch (non-fused) shall be installed on the line side of the meter. The enclosure shall be lockable and grounded as described in Note 5.  
**\*\*\*Only services rated 277/480V need the meter disconnect switch.\*\*\***
5. Two (2) ground rods spaced six (6) feet apart shall be installed on all services. Place ground rods to the left or right of the meter disconnect, not directly in front. Grounding conductor shall be bonded to the ground rods, at the first main disconnect, and a metal water pipe. If the main disconnect is in the meter base then the grounding conductor shall be bonded at that point. All grounding conductor above grade shall be installed in nonmetallic conduit.
6. Service conductor is provided and installed in conduit by the customer. Conductors shall be sized per current NEC requirements.
  - a. Three phase services shall be marked with electrical tape. 1, 2, 3 left to right, front to back or top to bottom. Use one ring of tape for phase 1, two rings of tape for phase 2, and three rings of tape for phase 3. Do not use green, black, or white tapes to mark phases.
  - b. For delta services, the wild leg shall be on the right at the meter base and in the middle at the service equipment.
7. After an approved inspection by the City of Ames Inspections Division contact the City of Ames Electric Distribution and Meter Divisions (239-5500) to schedule service conductor connection and meter installation.

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|                                   |   | EM706             |
|                                   |   | PAGE 2 OF 2       |
| REVISED: MEI 8/19/21              |   |                   |
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