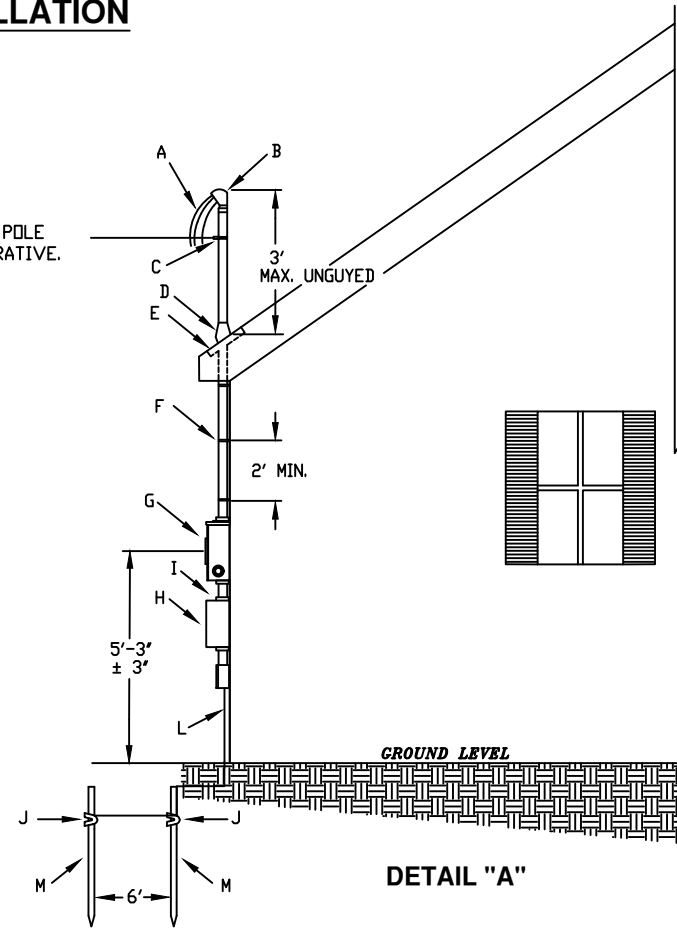


# SINGLE PHASE, 120/240 VOLT, 3 WIRE SERVICE, 100 AMP. MINIMUM MAST SERVICE INSTALLATION

### GENERAL NOTES

- ① THIS SERVICE MAST TO BE USED WHERE SERVICE ATTACHMENT ON BUILDING WOULD NOT PROVIDE PROPER CLEARANCES ABOVE GROUND FOR COOPERATIVE SERVICE LINE ATTACHMENT.
- ② HEIGHT OF WEATHERHEAD SHALL BE NOT LESS THAN 13 FEET ABOVE GROUND LEVEL FOR PEDESTRIAN CLEARANCE AND 18 FEET FOR DRIVEWAY CLEARANCE.
- ③ COOPERATIVE WILL SUPPLY AND INSTALL SERVICE WIRES IN ACCORDANCE WITH THE LINE EXTENSION POLICY FROM POLE TO MAST, SERVICE WIRE ATTACHMENT AND ALL MATERIAL SUPPLIES BY COOPERATIVE REMAINS PROPERTY OF COOPERATIVE.
- ④ ALL SERVICE ENTRANCE EQUIPMENT TO BE SUPPLIED AND INSTALLED ON HOUSE BY MEMBER.
- ⑤ EMERGENCY DR SERVICE DISCONNECT IS REQUIRED PER NEC. EMERGENCY DISCONNECT WOULD BE A SOLID BLADE DISCONNECT, WHEREAS A SERVICE DISCONNECT WOULD BE A FUSED/BREAKER DISCONNECT. A METER/MAIN COMBINATION UNIT SUFFICES AS A SERVICE DISCONNECT.
- ⑥ MEMBER SHALL SUPPLY COOPERATIVE APPROVED METER BASE.
- ⑦ THE MEMBER WILL MOUNT METER BASE LEVEL AT THE MAXIMUM HEIGHT OF 5 FOOT, 3 INCHES PLUS OR MINUS 3 INCHES TO CENTER OF METER BASE, ABOVE FINISHED GRADE. INSULATED BUSHINGS REQUIRED ON ALL CONDUIT ENDS AND SERVICE ENTRANCE CONNECTORS.
- ⑧ CONDUIT OR SERVICE ENTRANCE CABLE TO BE INSTALLED BY THE CONSUMER.
- ⑨ RIGID GALVANIZED STEEL CONDUIT ONLY; SIZE AS REQUIRED (2 INCH MINIMUM). TO BE INSTALLED BETWEEN RAFTERS TO PREVENT MOVEMENT OF PIPE. RIGID CONDUIT MUST BE USED FROM TOP OF METER BASE UPWARD.
- ⑩ CONDUIT CLAMP, AS REQUIRED BY CONDUIT SIZE, 2' FEET MAXIMUM SPACING BETWEEN CLAMPS.
- ⑪ UPPER 10 FEET OF CONDUIT SHALL BE WITHOUT COUPLING. IF COUPLING IS REQUIRED FOR ADDITIONAL HEIGHT, PLACE BELOW ROOF LINE. ONE OF THE CONDUIT CLAMPS SHALL BE INSTALLED IMMEDIATELY BELOW THE COUPLING.
- ⑫ CONDUCTORS TO METER FURNISHED BY MEMBER AND TO EXTEND A MINIMUM OF 18 INCHES BEYOND WEATHERHEAD. ( SEE NOTE A )
- ⑬ CONNECTION OF CUSTOMER'S CONDUCTORS TO COOPERATIVE SERVICE DROP SHALL BE THE RESPONSIBILITY OF THE COOPERATIVE. FINAL CONNECT SUBJECT TO INSPECTION BY LOCAL GOVERNMENTAL AUTHORITY, WHERE REQUIRED.
- ⑭ ALUMINUM ELECTRICAL JOINT COMPOUND SHALL BE APPLIED TO ALL ALUMINUM CONDUCTORS BEFORE INSTALLING IN TERMINALS OF METER BASE.



### DETAIL "A" NOTES

- Ⓐ SERVICE CONDUCTOR
- Ⓑ WEATHERHEAD
- Ⓒ WIRE HOLDER
- Ⓓ METAL FLASHING COLLAR
- Ⓔ BLOCKING
- Ⓕ CONDUIT CLAMP
- Ⓖ METER BASE
- Ⓗ DISCONNECT PER NEC (NOTE 5)
- Ⓘ CONDUIT OR CABLE
- Ⓝ GROUND ROD CLAMP
- Ⓛ THE SERVICE GROUNDING CONDUCTOR (BARE COPPER WIRE) SHALL BE CONTINUOUS AND TIED TO THE NEUTRAL CONDUCTOR IN THE SERVICE DISCONNECT (FUSED/BREAKER DISCONNECT) OR MAIN SERVICE PANEL IF THE DISCONNECT IS AN EMERGENCY DISCONNECT (SOLID-BLADE DISCONNECT) AND SHALL NOT BE IN OR ROUTED THROUGH THE METER BASE.
- Ⓜ 2X DRIVEN GROUND RODS MAY BE: 5/8 INCH BY 8 FEET, COPPERCLAD ROD, OR 5/8 INCH BY 8 FEET, SOLID ROD, GALVANIZED, AND DRIVEN ROD SHALL BE A MINIMUM OF 2 FEET FROM FOUNDATION AND 1 FOOT BELOW GROUND LEVEL. GROUND ROD CLAMP SHALL CONNECT GROUND WIRE SECURELY TO GROUND ROD.

**SERVICE ENTRANCE WIRE SIZE TABLE**  
THREE-WIRE-SINGLE PHASE, RESIDENTIAL SERVICE  
CONDUCTOR TYPES AND SIZES  
RH-RHH-RHW-THW-THWN-THHN-XHHW

BARE COPPER GROUND WIRE	COPPER	ALUMINUM AND COPPER-CLAD AL.	SERVICE IN AMPERES
6	AWG 4	AWG 2	100
4	3/0	4/0	200

DATE: 05/26/06

CHK BY: SWW

DWN BY: JME

SCALE:

NOTES:

**MAST SERVICE  
INSTALLATION**

