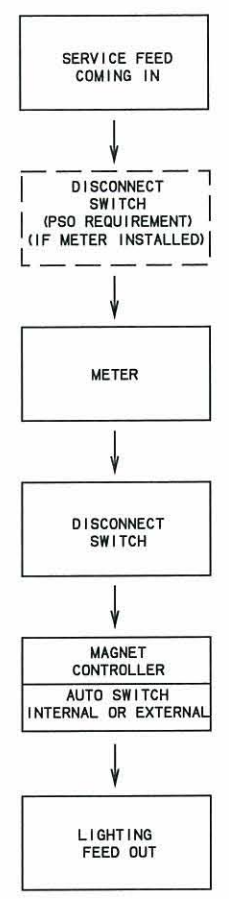


DESCRIPTION	REVISIONS	DATE

WIRING FLOW DIAGRAM

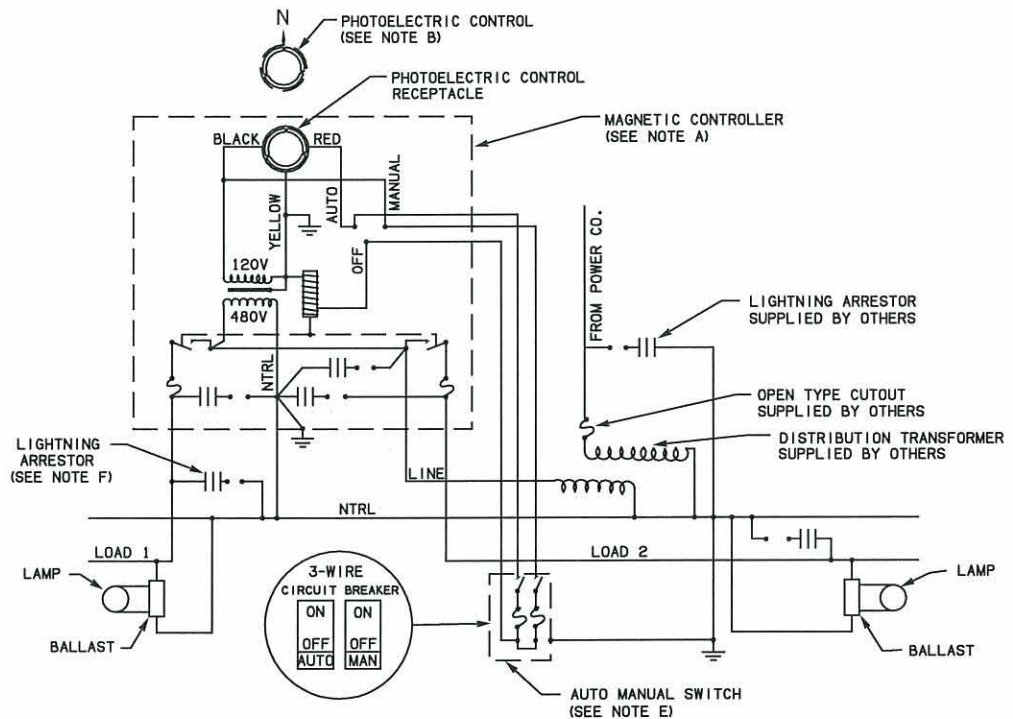


MATERIAL SPECIFICATIONS

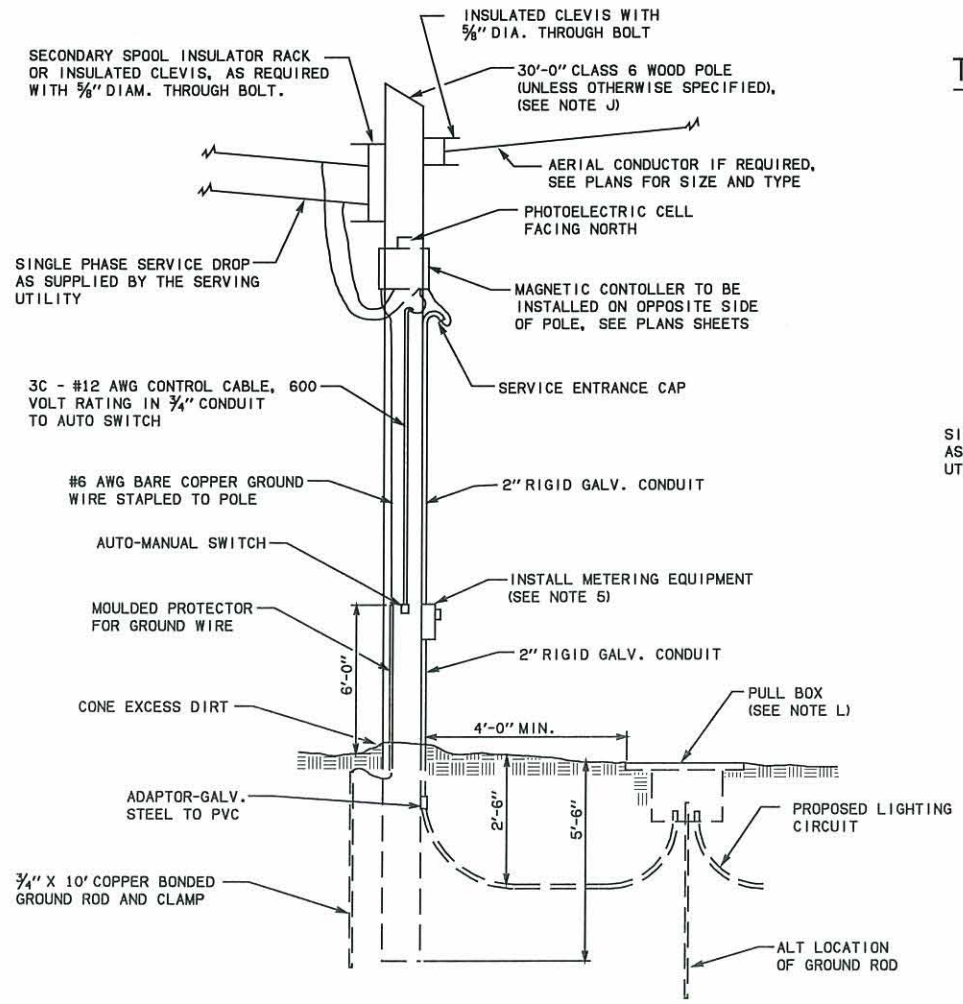
- A. THE MAGNETIC CONTROLLER FOR 480 VOLT SECONDARY SHALL BE IN A CAST ALUMINUM RAIN TIGHT ENCLOSURE COMPOSED OF: 480/120 VOLT POTENTIAL TRANSFORMER: MAGNETIC RELAY HAVING A 120 VOLT OPERATING COIL AND NORMALLY OPEN 480 VOLT DPST CONTACTS RATED AS SHOWN IN THE PLANS: 3-POLE POLARIZED TWIST LOCK PHOTOELECTRIC CONTROL: FUSE CLIPS FOR TWO RENEWABLE LINK TYPE FUSES: LABELED TERMINALS SUITABLE FOR NO. 10 OR 12 AWG STANDARD COPPER CONDUCTORS: CABLE GRIP INLETS: LINE, LOAD AND NEUTRAL TERMINALS SHALL BE SUITABLE FOR NO. 1/0 AWG STRANDED COPPER OR ALUMINUM CONDUCTORS: LINE AND LOAD LIGHTNING ARRESTORS SHALL BE EXTERNALLY MOUNTED. CIRCUITRY IN THE CONTROLLER SHALL BE ACCORDING TO THE WIRING DIAGRAM SHOWN. THE ENCLOSURE SHALL HAVE A HINGED DOOR WITH TWO DOOR FASTENERS AND LOCKING CAPABILITIES AND A MOUNTING BRACKET FOR ATTACHMENT TO THE POLE WITH TWO 5/8" DIAMETER LAG SCREWS. SIMILAR TO AN R.C.O.C MODEL MR-HHF SPEC. 6651 OR APPROVED EQUAL. IF THE SECONDARY VOLTAGE IS 120 OR 120/240, THE MAGNETIC CONTROLLER SHALL BE THE SAME AS THE ABOVE DESCRIBED UNIT EXCEPT THE POTENTIAL TRANSFORMER MAY BE ELIMINATED AND THE MODEL NUMBER CHANGED ACCORDINGLY.
- B. PHOTOELECTRIC CONTROL SHALL BE EITHER A FISHER-PIERCE MODEL 6690B-ELS, TORK MODEL NO. 2007, OR APPROVED EQUAL. IN ACCORDANCE WITH TYPICAL LUMINAIRE DETAILS, SEE STANDARD HLP1-1-(LATEST REVISION).
- C. ALL CONDUCTORS SHALL BE, UNLESS OTHERWISE SPECIFIED, COPPER THAT IS PROPERLY SIZED FOR THE LOAD, AND COMPLY WITH TYPICAL LUMINAIRE DETAILS, SEE STANDARD HLP1-1-(LATEST REVISION).
- D. ALL CONNECTIONS SHALL BE OF EITHER BOLTED TYPE OR COMPRESSION TYPE.
- E. THE "AUTO-MANUAL" TEST SWITCH SHALL BE A 3 WIRE, 2 POLE, 20 AMP OUTDOOR CIRCUIT BREAKER IN A NEMA 3R OR 4 ENCLOSURE WITH PROVISIONS FOR PADLOCKING.
- F. LIGHTNING ARRESTOR SHALL BE A 1-POLE, 600 OR 650 VOLT RATED WITH 3/4" NPT PIPE NIPPLE W/LOCK NUT AND BRUSHING WASHER AND 1'-6" LONG LEADS.
- G. ALL POLE LINE HARDWARE SHALL BE HOT DIP GALVANIZED.
- H. ALL OTHER MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 810 OF THE 2009 STANDARD SPECIFICATIONS.
- J. ALL WOOD POLES SHALL BE TREATED FULL LENGTH IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS, TO BE AT LEAST 7.5 LB PER CUBIC FT RETENTION OF CREOSOTE OR 0.38 LB PER CUBIC FT PENTACHLOROPHENOL MEASURED BY THE EMPTY CELL PROCESS. WOOD POLES SHALL COMPLY WITH THE LATEST REVISIONS OF ANSI STANDARD 05.1.
- K. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL, UNLESS OTHERWISE SPECIFIED.
- L. THE PULL BOX, IF REQUIRED, SHALL COMPLY WITH STANDARD PBD1-1-(LATEST REVISION).
- M. THE DISCONNECT SWITCH SHALL BE A FUSIBLE 2-POLE, 600 VOLT, IN A NEMA 3R ENCLOSURE WITH PROVISIONS FOR PADLOCKING THE SWITCH HANDLE AND DOOR. THE SWITCH SHALL BE PROVIDED WITH THE APPROPRIATE SIZE FUSE TO FIT THE LOAD AND SHALL BE EQUIPPED WITH THE APPROPRIATE CONDUIT HUBS.

GENERAL NOTES

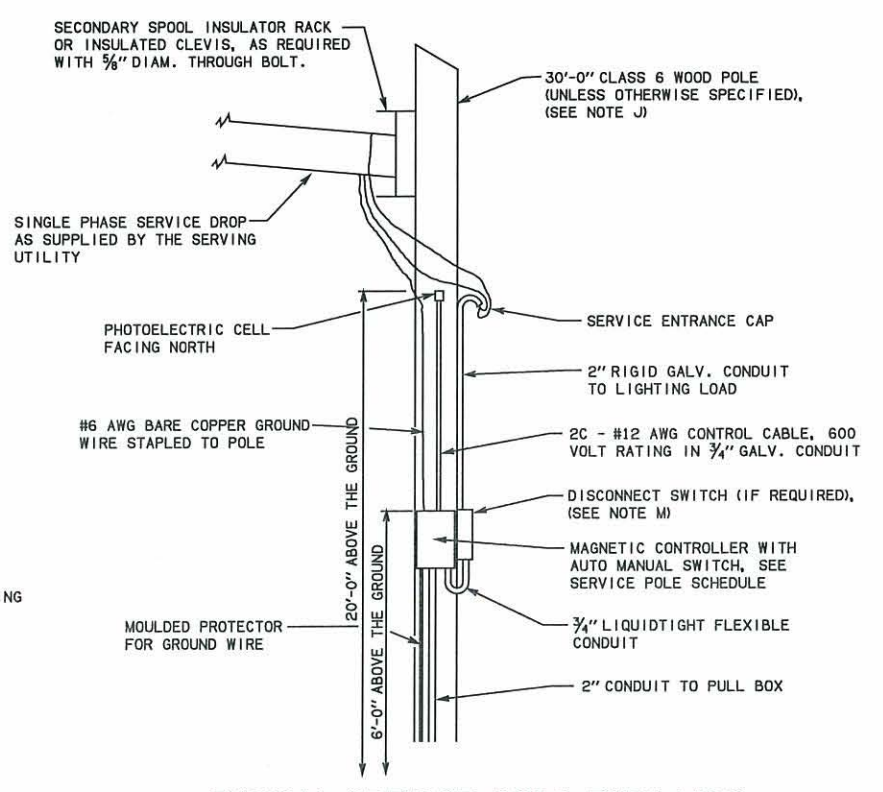
- 1. CONDUITS SHALL BE STRAPPED TO POLE AT INTERVALS NOT TO EXCEED 4'-0".
- 2. SEE PLANS SHEETS FOR SERVICE POLE LOCATIONS, NUMBER OF CONTROLLERS REQUIRED, AND CONTACT RATINGS.
- 3. THE PRIMARY WIRING WILL BE PROVIDED BY THE LOCAL UTILITY CO., UNLESS OTHERWISE SPECIFIED.
- 4. IF THE SERVICE POLE IS TO BE LOCATED MORE THAN 75 FEET FROM THE UTILITY COMPANY'S POLE, A DOWN GUY MAY BE REQUIRED. CONTACT THE UTILITY CO. FOR THEIR REQUIREMENTS.
- 5. IF SPECIFIED IN THE PLANS, THE CONTRACTOR SHALL INSTALL THE REQUIRED METERING EQUIPMENT FURNISHED BY THE LOCAL UTILITY COMPANY.



TYPICAL WIRING DIAGRAM USING 1-480V
MAGNETIC CONTROLLER (2-CIRCUITS)



TYPICAL SERVICE POLE TYPE-UG/1
(FOR UNDERGROUND WIRING SYSTEM)
OG&E PREFERENCE



TYPICAL SERVICE POLE TYPE-UG/2
(FOR UNDERGROUND WIRING SYSTEM)
FOR ADDITIONAL POLE INSTALLATION DETAILS,
SEE TYPICAL SERVICE POLE TYPE-UG/1
PSO PREFERENCE



APPROVED BY
TRAFFIC ENGINEER: *David Smith* DATE: 8/15/10
TRAFFIC STANDARD

TYPICAL SERVICE POLE DETAILS

2009 SPECIFICATIONS

SPD1-1	00
T-319	