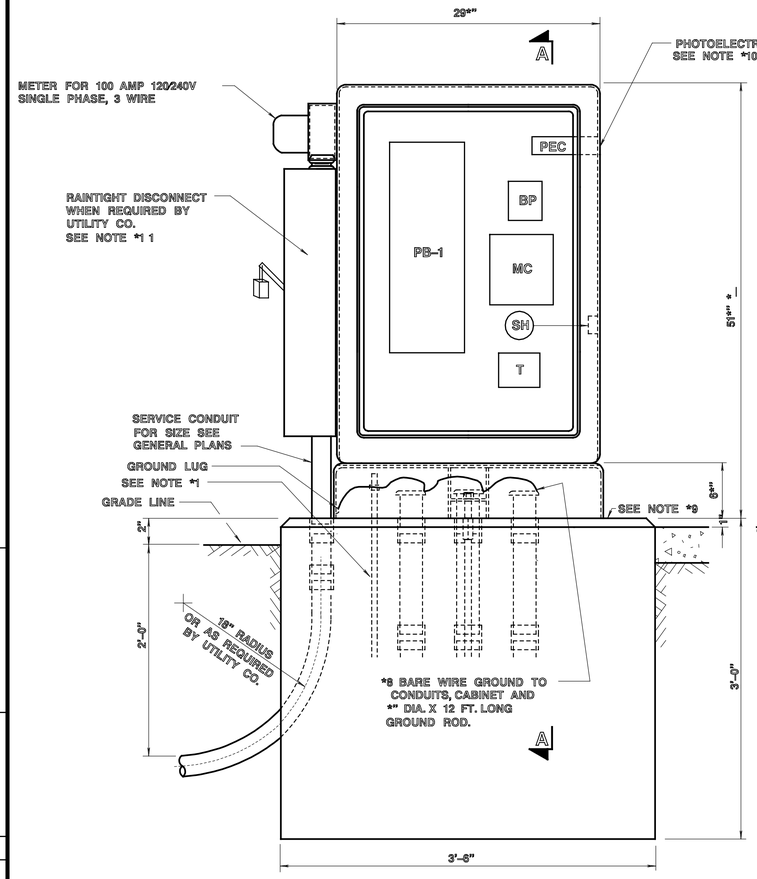
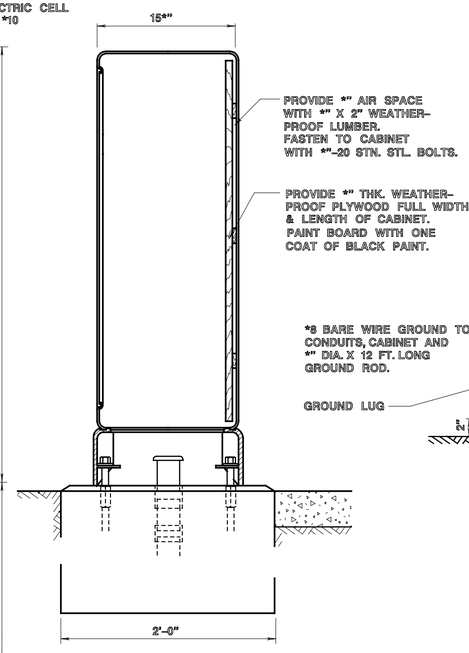
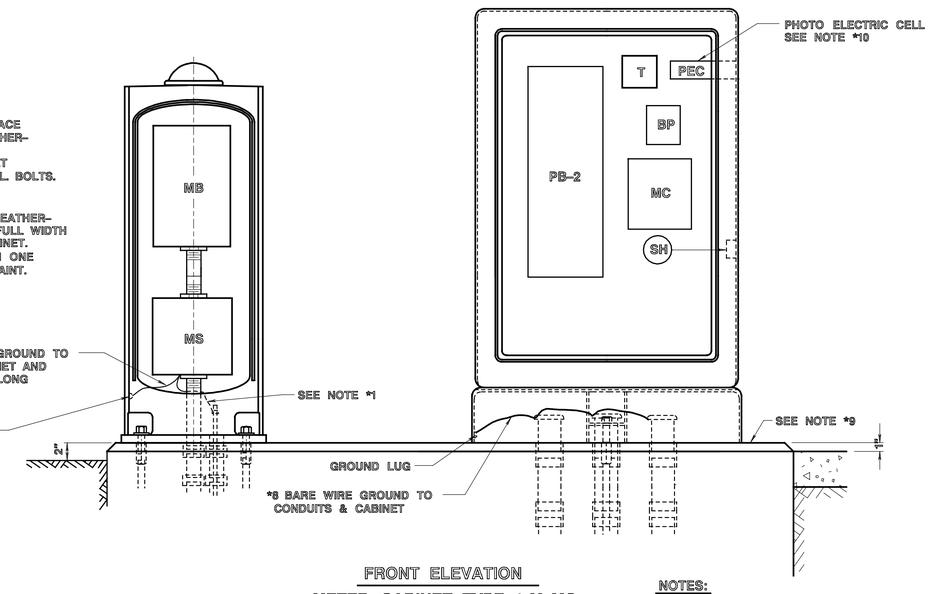


FRONT ELEVATION

METER CABINET TYPE 1M

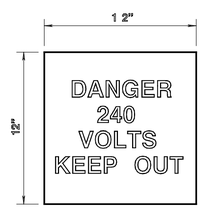


SECTION A–A

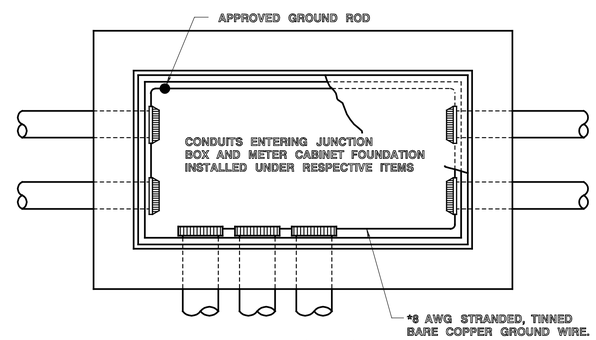


FRONT ELEVATION

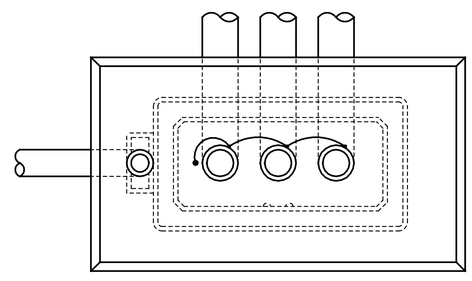
METER CABINET TYPE 1 M–MC



ENAMELED METAL SIGN TO BE INSTALLED ON DOOR OF EACH LOAD CENTER CABINET WHITE WITH RED LETTERS.



PLAN–JUNCTION BOX



PLAN–METER CABINET FOUNDATION

METER CABINET TYPE 1 M OR 1 M–MC – 120/240V		
SYMBOL	APPARATUS DESCRIPTION	RATING
MB	MAIN BREAKER 2 POLE 240 VOLT S/N NEMA TYPE 1 ENCLOSURE	AMP
PEC	PHOTOELECTRIC CELL 240 VOLTS–3 KVA	N.A.
BP	TOGGLE SWITCH (BY–PASS) SINGLE POLE 10 AMP, 277 VOLT WITH ENCLOSURE	N.A.
MC	MAGNETIC CONTACTOR, 2 POLE 1 PHASE, NEMA SIZE 1 240 VOLT WITH 120 VOLT OPERATING COIL	AMP
SH	STRIP HEATER, 400 WATT, 240 VOLT, WITH STAINLESS STEEL OR CHROME STEEL SHEATH MOUNTED ON PORCELAIN STAND–OFF	N.A.
T	THERMOSTAT LINE VOLTAGE–OPERATING RANGE 50 F. °TO 70 °F. 240V RATING 2,000 WATTS SINGLE POLE.	N.A.
PB–1	PANELBOARD–SPLIT BUSS–8 CIRCUITS TOP SECTION MIN. 12 CIRCUITS BOTTOM–125 AMP RATED MAINS LIGHTING BREAKERS AMP. CONTROL AND HEATER BREAKERS 15 AMP.	LIGHTING BREAKERS AMP. MAIN BREAKER AMP.
PB–2	PANELBOARD–MIN. 16 CIRCUITS–125 AMP RATED MAINS LIGHTING BREAKERS AMP. CONTROL AND HEATER BREAKERS AMP.	LIGHTING BREAKERS AMP. CONTROL & HEATER BREAKERS AMP.

NOTES:

1. *" DIA. X 12' LONG GROUND ROD.
2. CABINETS TYPES M AND MC–CAST ALUMINUM CABINET FURNISHED WITH DOOR AND LOCK FABRICATED IN ACCORDANCE WITH THE STANDARD DETAILED DRAWING.
3. LOCATION OF METER CABINET FOUNDATION, SIZE, NUMBER AND DIRECTION OF CONDUIT RUNS SHALL BE TAKEN FROM THE GENERAL ELECTRICAL PLANS FOR THE AREA WHERE REQUIRED AND SUBJECT TO THE APPROVAL OF THE DEPARTMENT.
4. GROUNDING FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND N.E.C.
5. TERMINATE ALL CONDUITS WHEN ENTERING ENCLOSURES WITH LOCKNUT AND BONDING BUSHINGS. ALL OTHER CONDUITS SHALL BE PROVIDED WITH BONDING BUSHINGS. ALL CONDUITS TO BE BONDED WITH *8AWG STRANDED BARE COPPER GROUND WIRE.
6. ALL CIRCUIT BREAKERS TO BE PLUG–IN TYPE, SHALL MEET FEDERAL SPECIFICATION W–C–375B AS A CLASS 10A OR 10B BREAKER.
7. LOAD CENTERS SHALL BEAR UNDERWRITERS LABORATORIES LABEL.
8. WIRES IN CABINET SHALL BE ARRANGED IN A WORKMAN LIKE MANNER USING WAXED SERVING CORD OR NYLON SELF CLINCHING STRAPS OR APPROVED EQUAL.
9. FOR METER CABINET FOUNDATION DETAILS SEE DWG. *L–03.
10. PHOTELECTRIC CONTROL TO BE MOUNTED INSIDE CABINET. HOLE IN CABINET FOR PHOTOCELL SHALL BE 3" X 3" MIN. AND SHALL BE COVERED WITH CLEAR PLEXIGLASS AND GASKETED. PHOTOELECTRIC CONTROL SHALL BE MOUNTED WITH THE PHOTOCELL FACING NORTH. PHOTOCELL MAY BE REPOSITIONED TO AVOID BEING AFFECTED BY ARTIFICIAL LIGHTING.
11. SERVICE DISCONNECT SWITCH – 240 VOLT, 100 AMP., S/N, NEMA 3R ENCLOSURE WITH PADLOCK PROVISIONS. (LOCK TO BE SUPPLIED BY UTILITY COMPANY).
12. SEE GENERAL PLANS FOR SERVICE AND CIRCUIT WIRE SIZE.
13. CONTROL CIRCUIT WIRING SHALL BE No. 10AWG MIN. NO. 12 AWG TYPE TFE HIGH TEMP. WIRE SHALL BE USED TO CONNECT THE THERMOSTAT AND HEATING ELEMENT.
14. FOR ALTERNATE FABRICATED ALUMINUM TYPES M AND MC CABINETS SEE DRAWING P–20 AND P–07 AVAILABLE UPON REQUEST.
15. CONTRACTOR SHALL PROVIDE SCALE DRAWING TO VERIFY THAT PROPOSED COMPONENTS WILL FIT IN CABINET.

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

N.T.S.

METER CABINET, 1M, 120/240 VOLT
AND TYPE 1M–MC, 120/240 VOLT

L–0707

REFERENCE

BDC07D-03