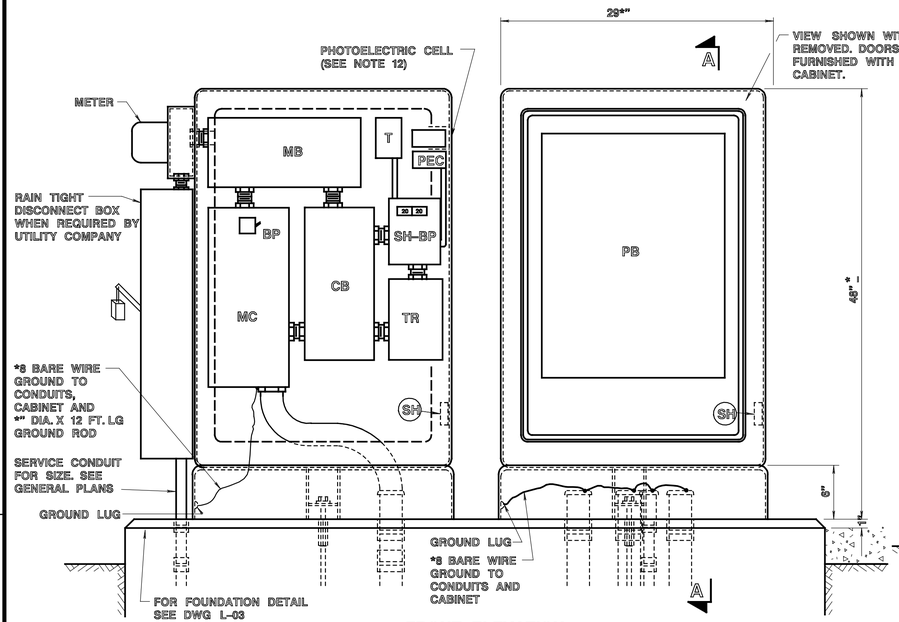
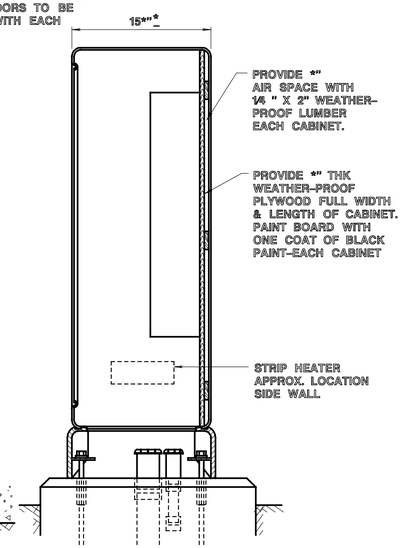
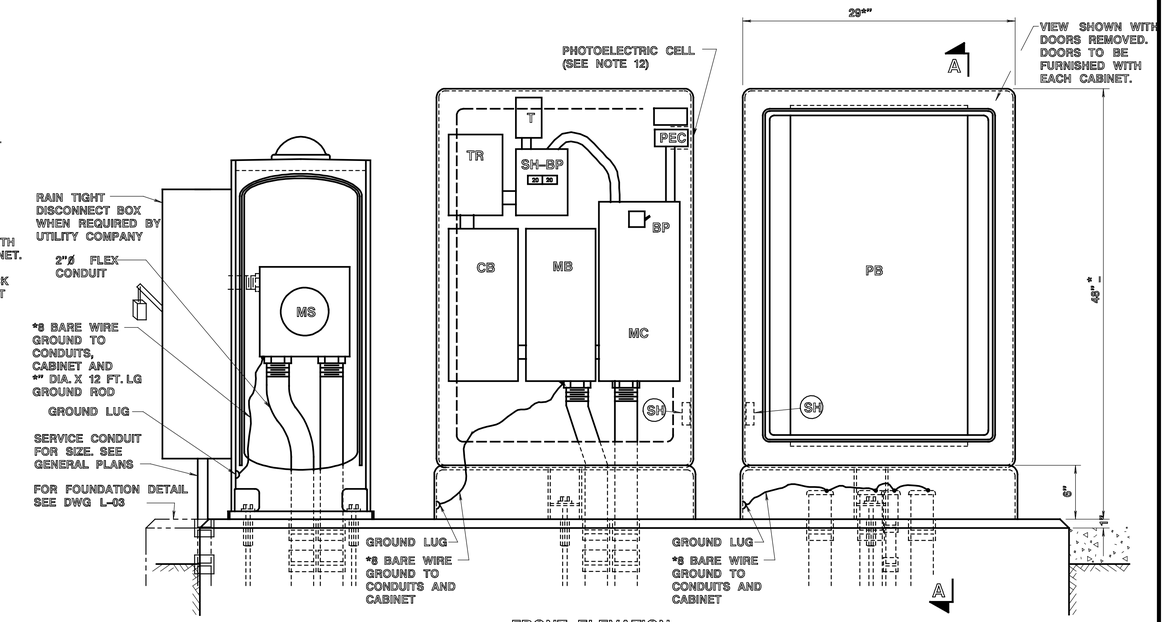


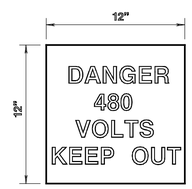
FRONT ELEVATION
METER CABINET TYPE 2M



SECTION A–A



FRONT ELEVATION
METER CABINET TYPE 2M–MC



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

METER CABINET TYPE 2M – 240/480V		
SYMBOL	APPARATUS DESCRIPTION	RATING
MB	MAIN BREAKER 2 POLE 480 VOLT S/N NEMA TYPE 1 ENCLOSURE	100 AMP
CB	CONTROL DISCONNECT CIRCUIT BREAKER 2 POLE S/N 480 VOLT NEMA TYPE 1 ENCLOSURE	15 AMP
BP	PHOTOELECTRIC CONTROL BY–PASS SWITCH BUILT INTO CONTACTOR ENCLOSURE	15 AMP
MC	MAGNETIC CONTACTOR 2 POLE 480 VOLT WITH 120 VOLT COIL. NEMA TYPE 1 ENCLOSURE	100 AMP
SH	STRIP HEATER 400W–120V WITH STAINLESS STEEL OR CHROME SHEATH MOUNTED ON PORCELAIN STAND–OFF	N.A.
T	THERMOSTAT LINE VOLTAGE–OPERATING RANGE 50 F. °TO 70 °F. 120V RATING 2000 WATTS SINGLE POLE.	N.A.
TR	CONTROL TRANSFORMER PRIMARY 240/480 VOLT. SECONDARY 120 VOLT.	N.A.
PB	LIGHTING DISTRIBUTION PANEL SINGLE PHASE–3 WIRE S/N MIN. 12 CIRCUITS–240/480 VOLT DEAD FRONT PANEL–NO ENCL. BREAKER 30 AMP, 240 VOLTS, SINGLE POLE.	30 AMP
MS	METER SOCKET 200 AMP 3 WIRE, 240/480 VOLT SINGLE Ø INSTALLED BY CONTRACTOR, FURNISHED BY UTILITY CO.; IN JCPL AREA, FURNISHED BY CONTRACTOR.	N.A.
PEC.	PHOTOELECTRIC CONTROL 120 VOLTS. 1800 VA	N.A.
SH–BP	CIRCUIT BREAKER. 120V. (2) 1 POLE, NEMA TYPE 1 ENCLOSURE FOR STRIP HEATER AND PHOTOELECTRIC BY–PASS SWITCH	20 AMP

METER CABINET TYPE 2M–MC – 240/480V		
SYMBOL	APPARATUS DESCRIPTION	RATING
MB	MAIN BREAKER 2 POLE 480 VOLT S/N NEMA TYPE 1 ENCLOSURE	100 AMP
CB	CONTROL DISCONNECT CIRCUIT BREAKER 2 POLE 480 VOLT S/N NEMA TYPE 1 ENCLOSURE	15 AMP
BP	PHOTOELECTRIC CONTROL BY–PASS SWITCH BUILT INTO CONTACTOR ENCLOSURE	15 AMP
MC	MAGNETIC CONTACTOR 2 POLE 480 VOLT WITH 120 VOLT COIL. NEMA TYPE 1 ENCLOSURE	100 AMP
SH	STRIP HEATER 400W–120V WITH STAINLESS STEEL OR CHROME SHEATH MOUNTED ON PORCELAIN STAND–OFF	N.A.
T	THERMOSTAT LINE VOLTAGE–OPERATING RANGE 50 F. °TO 70 °F. 120V RATING 2000 WATTS SINGLE POLE.	N.A.
TR	CONTROL TRANSFORMER PRIMARY 240/480 V. SECONDARY 120V.	N.A.
PB	LIGHTING DISTRIBUTION PANEL SINGLE PHASE–3 WIRE S/N MIN. 12 CIRCUITS–240/480 VOLT DEAD FRONT PANEL–NO ENCL. BREAKER 30 AMP, 240 VOLTS, SINGLE POLE.	30 AMP
MS	METER SOCKET 200 AMP 3 WIRE, 240/480 VOLT SINGLE Ø INSTALLED BY CONTRACTOR, FURNISHED BY UTILITY CO.; IN JCPL AREA, FURNISHED BY CONTRACTOR.	N.A.
PEC.	PHOTOELECTRIC CONTROL 120 VOLTS. 1800 VA	N.A.
SH–BP	CIRCUIT BREAKER. 120V. (2) 1 POLE, NEMA TYPE 1 ENCLOSURE FOR STRIP HEATER AND PHOTOELECTRIC BY–PASS SWITCH	20 AMP

NOTES:

1. *" DIA. X 12 FT. LG. GROUND ROD.
2. CONTRACTOR SHALL PROVIDE SCALE DRAWING TO VERIFY THAT PROPOSED COMPONENTS WILL FIT IN CABINET.
3. CABINET M-CAST ALUMINUM CABINET - SEC. 906.12-FURNISHED WITH DOOR AND LOCK FABRICATED IN ACCORDANCE WITH STANDARD DETAILED DRAWING. DETAILS FURNISHED UPON REQUEST OR APPROVED EQUAL.
4. LOCATION OF METER CABINET FOUNDATION, SIZE, NUMBER AND DIRECTION OF CONDUIT RUN SHALL BE TAKEN FROM THE GENERAL ELECTRICAL PLANS FOR THE AREA WHERE REQUIRED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. GROUNDING FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS & N.E.C.
6. 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 *8 AWG. STANDED BARE COPPER GROUND WIRE.
7. ALL CIRCUIT BREAKERS TO BE PLUG–IN TYPE, SHALL MEET FEDERAL SPECIFICATION W–C–375–B. THE INTERRUPTING RATING IN SYMETRICAL AMPERS SHALL BE, 120 VOLTS – 7,500 AMPS MIN., 240 VOLTS – 10,000 AMPS MIN. AND 480 VOLTS – 18,000 AMPS MIN.
8. LOAD CENTERS SHALL BEAR UNDERWRITERS LABORATORIES LABEL.
9. WIRES IN CABINET SHALL BE ARRANGED IN A WORKMAN–LIKE MANNER USING WAXING SERVING CORD OR NYLON SELF CLINCHING STRAPS OR APPROVED EQUAL.
10. FOR METER CABINET FOUNDATION DETAILS, SEE DWG. L–03
11. SERVICE DISCONNECT SWITCH–480 VOLT, 100A, 2 POLE S/N, NEMA 3 R ENCLOSURE WITH PADLOCK PROVISIONS (LOCK TO BE SUPPLIED BY UTILITY CO.)
12. PHOTOELECTRIC CONTROL TO BE MOUNTED INSIDE CABINET. HOLE IN CABINET FOR PHOTOCELL SHALL BE 3" X 3" MIN. AND SHALL BE COVERED WITH CLEAR *" PLEXIGLASS. PHOTOELECTRIC CONTROL SHALL BE MOUNTED WITH PHOTOCELL FACING NORTH. PHOTOCELL MAY BE REPOSITIONED TO AVOID BEING AFFECTED BY ARTIFICIAL LIGHT.
13. LUG ON 30 AMP CIRCUIT BREAKER SHALL BE CAPABLE OF ACCEPTING A NO. 2 AWG WIRE.

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

N.T.S.

METER CABINET 2M 240/480 VOLT
AND 2M–MC 240/480 VOLT

L–0207

REFERENCE

BDC07D-03