I. MATERIALS

A. ENCLOSURE

1. THE SINGLE DOOR PEDESTAL MOUNT ENCLOSURE SHALL BE 28" HIGH, 18" WIDE, AND 8 3/4" DEEP. THE CABINET AND DOOR SHALL BE MADE OF 14GA. TYPE 304 STAINLESS STEEL WITH A 14GA. STAINLESS STEEL CONTINUOUS WELDED HINGE. THE ENCLOSURE SHALL HAVE A NATURAL FINISH. A CLOSED CELL NEOPRENE GASKET SHALL BE AROUND THE ENTIRE DOOR FOR WATER INTEGRITY. THE FLANGE MOUNTING DISCONNECT OPERATOR SHALL BE STAINLESS STEEL FOR NEMA 4X APPLICATION CAPABLE OF BEING LOCKED IN THE ON OR OFF POSITION WITH A DUAL COVER INTERLOCK MECHANISM. THE CABINET & DOOR SHALL HAVE AN EQUIPMENT GROUNDING LUG. THE ENCLOSURE SHALL MEET OR EXCEED THE REQUIREMENTS OF A NEMA 4X RATING, AND SHALL BE UL LISTED.

2. THE BOTTOM SHALL BE REINFORCED, DOUBLE THICK AND SHALL BE PRE–DRILLED TO ACCEPT A 4" PEDESTAL ADAPTER WITH A 6 1/2" BOLT CIRCLE. SEE SHEET 3.

B. CONTROL PANEL

1. THE CONTROL PANEL SHALL HAVE A 100 AMPERE, 3 POLE, 600 VOLT, SINGLE THROW SERVICE DISCONNECT SWITCH WITH PROVISION FOR 100 AMP CLASS "H" TIME DELAY FUSES, COPPER SHORTING BUS WITH LUG FOR 7 STRAND #2 COPPER. (SEE DWG 01S0067).

2. A NEMA RATED 100 AMPERE, 3 POLE, 600 VOLT, CONTACTOR WITH 120 VOLT OPERATING COIL, CONTROL TRANSFORMER, TYPE SBE, 480/120 VOLTS, 60 CYCLE, .2 KVA AND 2 AMP CONTROL FUSE HOLDER SHALL BE ON THE SECONDARY SIDE AND 1 AMP ON THE PRIMARY SIDE.

3. ALL FUSES SHALL BE TYPE H. (BLADE FUSES)

4. THE CONTROL PANEL SHALL HAVE AN INTERNAL MOUNTED HAND, OFF, AUTO SELECTOR SWITCH.

5. THE CONTROL PANEL SHALL HAVE AN INSULATED SOLID COPPER GROUND BUS CAPABLE OF TERMINATING THE SPECIFIED NUMBER AND SIZE WIRES.

6. A TERMINAL BLOCK SHALL BE PROVIDED FOR PHOTOELECTRIC RELAY CONNECTION. BLOCK SHALL ACCEPT #10 COPPER WIRE.

7. FOR THE CONTROL WIRING, THE CONDUCTORS BETWEEN THE FUSE DISCONNECT AND THE CONDUCTOR SHALL BE 7 STRAND COPPER #4, 600V TYPE THW OR XHHW–2. ALL OTHER CONDUCTORS SHALL BE 7 STRAND COPPER #12, 600V TYPE MTW.

8. THE CONTROLLER SHALL BE WIRED AS SHOWN ON SHEET 2.

9. THE MOUNTING PANEL SIZE SHALL BE 25" X 15".

10. THE CONTROLLER SHALL BE ASSEMBLED WITH STANDARD HARDWARE FOR EASE OF MAINTENANCE.

11. A LIGHTNING/SURGE ARRESTOR SHALL BE INSTALLED INTERNALLY ON THE CONTROL PANEL.

12. THE MANUFACTURER SHALL BE CENTRAL SYSTEMS & CONTROLS MFG # 20026031042, DEWSBURY MFG # 60310422002 OR APPROVED EQUAL.

13. THE CONTROLLER SHALL BE FUSED ACCORDING TO THE LOAD AMPERAGE ON THE TABLE BELOW. FUSE REDUCERS SHALL BE USED IF NECESSARY.

LOAD AMPERAGE	FUSE SIZE	FUSE REDUCER
1–12	15 A	BUSS #216
13–25	30 A	BUSS #216
26–37	45 A	BUSS #616
38–50	60 A	BUSS #616
51–66	80 A	N/A
67–83	100 A	N/A

C. PEDESTAL

1. THE BREAKAWAY PEDESTAL BASE SHALL BE 15" HIGH AND 13.75" SQUARE AT THE BOTTOM, MADE OF CAST ALUMINUM, WITH AN 8.5" SQUARE ALUMINUM ACCESS DOOR WITH A STAINLESS STEEL TAMPER RESISTANT FASTENER. TOP TO BE THREADED, 4" NPT C.N.C., FOR FULL ENGAGEMENT OFPOLE THREAD. THE BOTTOM SHALL HAVE FOUR (4) EQUALLY SPACED SLOTS ON 8" DIA. THRU 12 3/4" DIA. BOLT CIRCLE FOR 3/4" ANCHORAGE.

2. PEDESTAL POLE SHALL BE MADE OF 4 1/2" O.D. X .237" WALL X 24" INCHES LONG, SCH. 40, SPUN ALUMINUM. BOTTOM TO BE THREADED FOR FULL ENGAGEMENT OF GAUGED BASE THREAD.

3. THE SLIP FITTER SHALL HAVE A 4" PEDESTAL ADAPTER MADE OF ALUMINUM AND BE SUPPLIED WITH STAINLESS STEEL HARDWARE. IT SHALL BE DESIGNED FOR POST TOP MOUNTING OF THE ENCLOSURE, WITH A 6 1/2" BOLT CIRCLE.

D. MISCELLANEOUS MATERIAL

1. GROUND ROD: THE GROUND ROD SHALL BE 1/2 X 10' COPPER CLAD.

2. GROUNDING ELECTRODE WIRE: THE GROUNDING ELECTRODE WIRE SHALL BE #6 AWG BARE SOLID COPPER AND SHALL BE ATTACHED TO THE GROUND BAR. THE ENCLOSURE SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM WITH A #8 CONDUCTOR FROM THE GROUND BAR TO THE GROUNDING LUG OF THE ENCLOSURE.

3. PHOTOELECTRIC RELAY: THE RELAY SHALL BE CADMIUM SULPHITE WITH LOCKING TYPE RECEPTACLE, POLE MOUNTED 120 VOLT OPERATION. THE TURN ON AND OFF LEVELS SHALL BE ADJUSTABLE FROM 0.3 TO 6.0 FOOT CANDLES. CONTACTS SHALL BE RATED FOR A MINIMUM LOAD 1200 WATTS. THE PHOTOELECTRIC RELAY SHALL BE AN APPROVED EQUAL TO FISHER PIERCE #7760 MSS WITH ADAPTER #S476–71, LUMATROL OR TORK

4. POWER SERVICE: THE CONTRACTOR SHALL INSTALL TWO #4 5KV CABLES (MIS–403) FROM THE LINE TERMINALS OF THE CONTROL PANEL TO POWER COMPANY'S SERVICE TRANSFORMER POLE MOUNT OR PEDESTAL LEAVING 6 FT OF CABLE COILED FOR CONNECTION BY THE POWER COMPANY. THE NEUTRAL CABLE SHALL BE CLEARLY MARKED WITH WHITE STRIPE AND WHITE TAPE. THE SERVICE ENTRY CABLE SHALL BE #4–5KV, 7 STRAND COPPER TYPE XHHW.

5. HARDWARE: ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL, BRASS OR HOT DIPPED GALVANIZED.

6. FOR D.O.P POWERED CIRCUITS ONLY, THE METER SHALL BE SUPPLIED AND INSTALLED BY THE DIVISION OF POWER. THE METER TRIM ASSEMBLY SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR, AND PLACED ON THE HINGE SIDE OF THE CONTROLLER. THE METER AND METER TRIM ASSEMBLY SHALL BE INSTALLED PRIOR TO ENERGIZING THE CONTROLLER.

THIS SPECIFICATION SHALL BE USED AND SPECIFIED WITH MIS–57 FOR D.O.P POWERED CIRCUITS, AND MIS–59 AND MIS–60 FOR AEP POWERED CIRCUITS (EACH PAID SEPARATELY).

III. BASIS OF PAYMENT

ITEM	UNIT	DESCRIPTION
MIS–602	EACH	CONTROLLER, 2 WIRE, 480V, PEDESTAL MOUNT

MIS-602

DEPARTMENT OF PUBLIC UTILITIES - DIVISION OF POWER
CITY OF COLUMBUS, OHIO

CONTROLLER, 2 WIRE, 480V, PEDESTAL MOUNT

DRAWN BY: SAW	DATE: 9/2/25	
APPROVED:		
SCALE: NONE	SHEET: 1 OF 3	602

120V PHOTOCELL
AIM WINDOW
TO NORTH

240/480 VOLT
TRANSFORMER
480V–PHASE TO GROUND

BLACK

LIGHTNING
ARRESTOR

MAIN
DISCONNECT

ON

OFF

FUSE
1 KTK

480V

CONNECT
ABOVE
FUSE

H1 H3 H2 H4

EO2 STEP DOWN
TRANSFORMER

WHITE

FUSE X1 X2
2 KTK
120V

FUSED
FOR
LOAD

FUSE
FUSE
FUSE

X1

X2

120 VOLT
COIL

BLACK
RED
WHITE

PHOTOCELL
TERMINAL
BLOCK

HAND AUTO
OFF

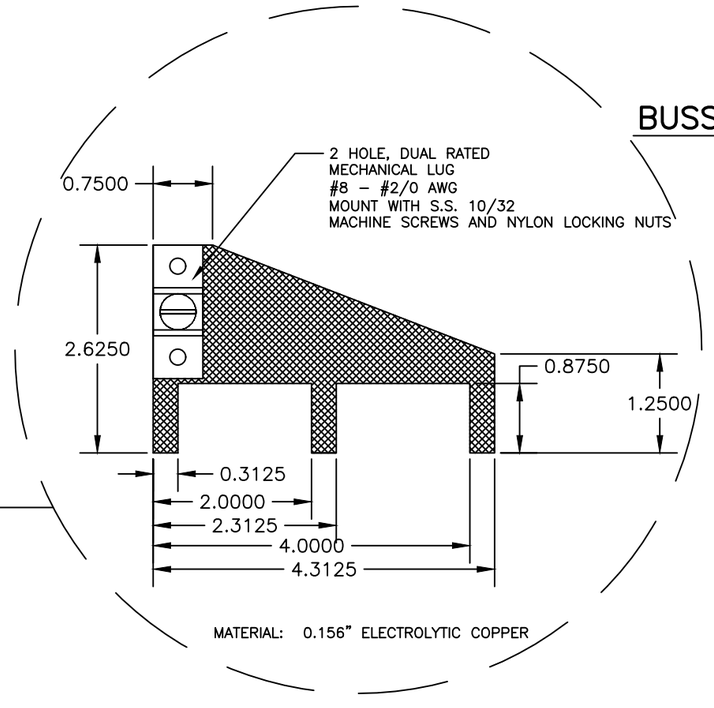
A RED
B BLACK
C BLUE

OUT TO LOAD

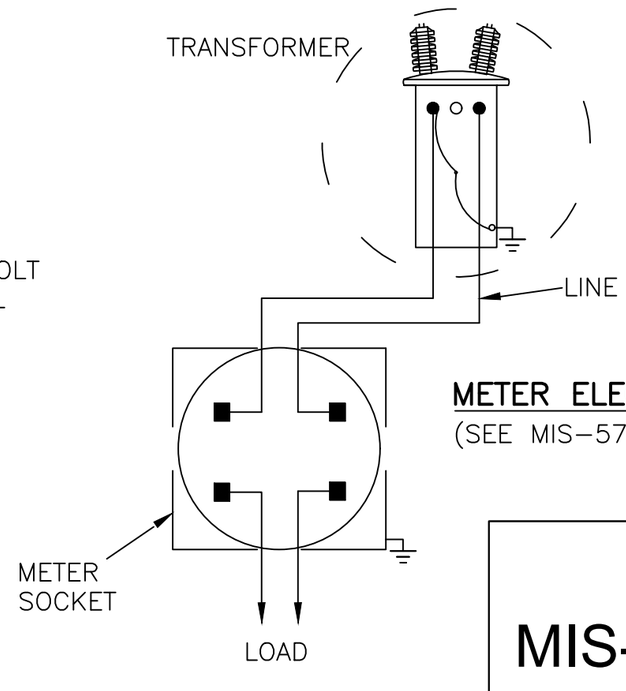
GROUND BAR

GROUND 480V STREET LIGHTING CONTROLLER

BUSS BAR



MATERIAL: 0.156" ELECTROLYTIC COPPER



METER ELECTRICAL CONNECTIONS (IF REQUIRED)

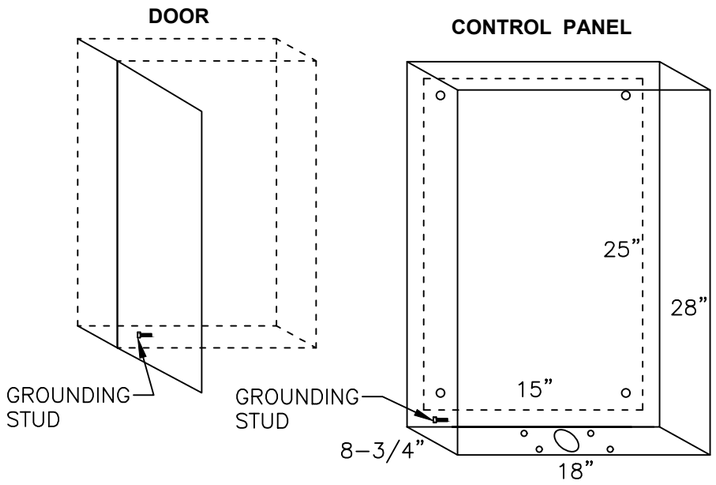
(SEE MIS–57)

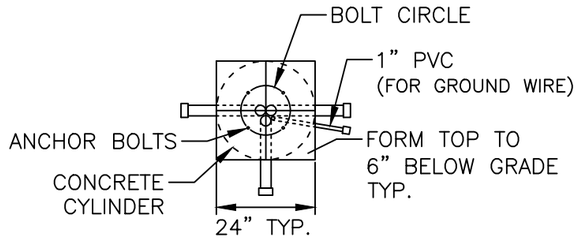
DEPARTMENT OF PUBLIC UTILITIES - DIVISION OF POWER
CITY OF COLUMBUS, OHIO

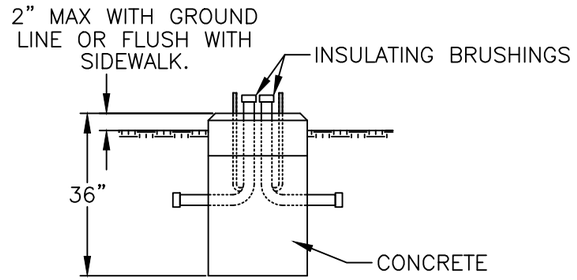
MIS-602

CONTROLLER, 2 WIRE, 480V,
PEDESTAL MOUNT

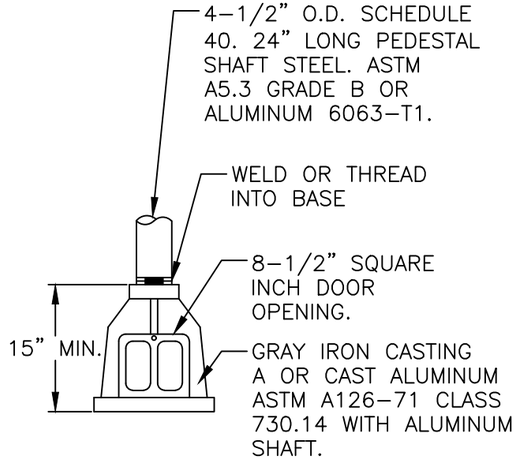
DRAWN BY: SAW	DATE: 9/2/25	
APPROVED:		
SCALE: NONE	SHEET: 2 OF 3	602

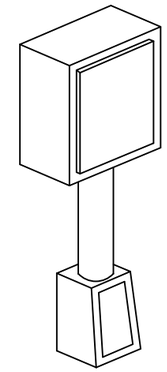






PEDESTAL FOUNDATION





PEDESTAL MOUNT CONTROLLER

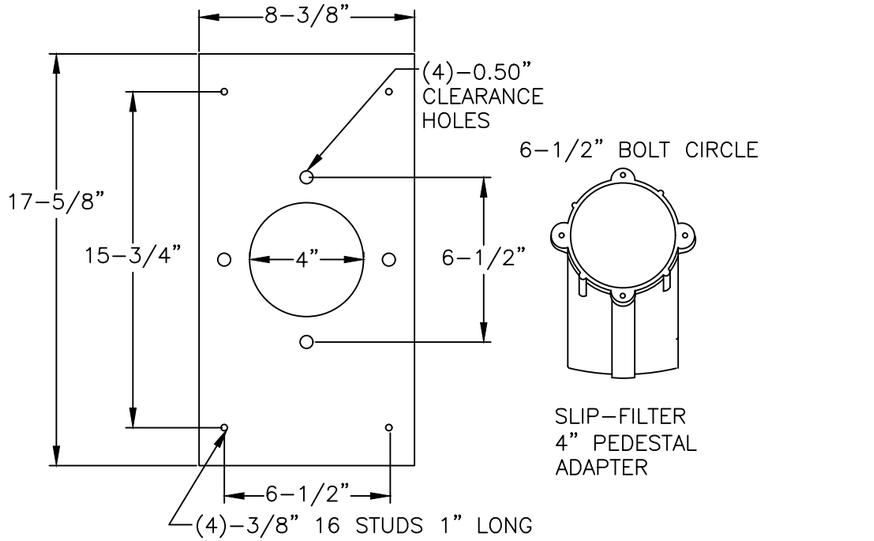
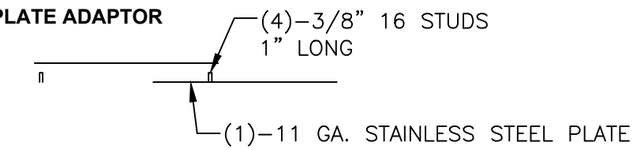
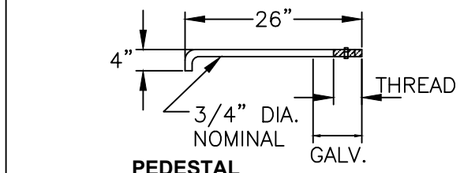
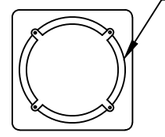


PLATE ADAPTOR

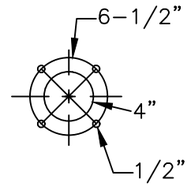




PEDESTAL ANCHOR BOLT ASTM A307 STEEL



TRANSFORMER TYPE PEDESTAL BASE



ENCLOSURE BOTTOM HOLE PATTERN

NOTES:

1. THE SIZE OF THE CONDUIT ELBOWS SHALL BE 2" HDPE FOR DIRECTIONAL DRILLING AND 2" PVC FOR OPEN TRENCH INSTALLATION. A 1" PVC ELBOW SHALL BE PROVIDED FOR THE GROUNDING ELECTRODE.
2. THE SIZE, NUMBER AND LOCATION OF ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
3. PEDESTALS SHALL BE PROVIDED WITH A METHOD OF SECURELY ATTACHING A NO. 4 AWG INSULATED COPPER GROUNDING CABLE TO THE PEDESTAL OR ANCHOR BOLT. NO CABLES OR CONNECTION SHALL BE EXTERNAL TO THE PEDESTAL.
4. THE PEDESTAL BASE SHALL SET ON THE FOUNDATION TOP WITHOUT GROUTING, FILLERS OR LEVELING NUTS UNDER THE BASE. STEEL SHIMS MAY BE USED UNDER THE BASE FOR LEVELING THE INSTALLATION.
5. STAINLESS STEEL HARDWARE SHALL BE SUPPLIED FOR FASTENING OF ENCLOSURE.
6. BOTTOM OF ENCLOSURE SHALL BE REINFORCED, DOUBLE THICK

MIS-602

DEPARTMENT OF PUBLIC UTILITIES - DIVISION OF POWER
CITY OF COLUMBUS, OHIO

CONTROLLER, 2 WIRE, 480V, PEDESTAL MOUNT

DRAWN BY: SAW	DATE: 9/2/25	
APPROVED:		
SCALE: NONE	SHEET: 3 OF 3	602