

EO-17083-B

REVISIONS

T. MATONTI 0

REDRAWN MES 166A TO CADAM
NEW DWG. NO. TAKEN OUT.
(EO-17083-B REV. 0)
ADDED FILING INFO.

R. HOPKINS 1

ELIMINATED ALL USE OF LEAD.

G.D. 12-28-1999

H. MAR 2

UPDATED WIRING
REQUIREMENTS. ADDED
NOTES 8 AND 9.

G.D. 7-9-2001

A. MILLER 3

ADDED NOTE 10 AND
REPLACED SOLID WITH
"STRANDED".
ADDED SPEC. NO.

D.E. 4-3-2018

A. MILLER 4

REVIEWED NO CHANGES
MADE.

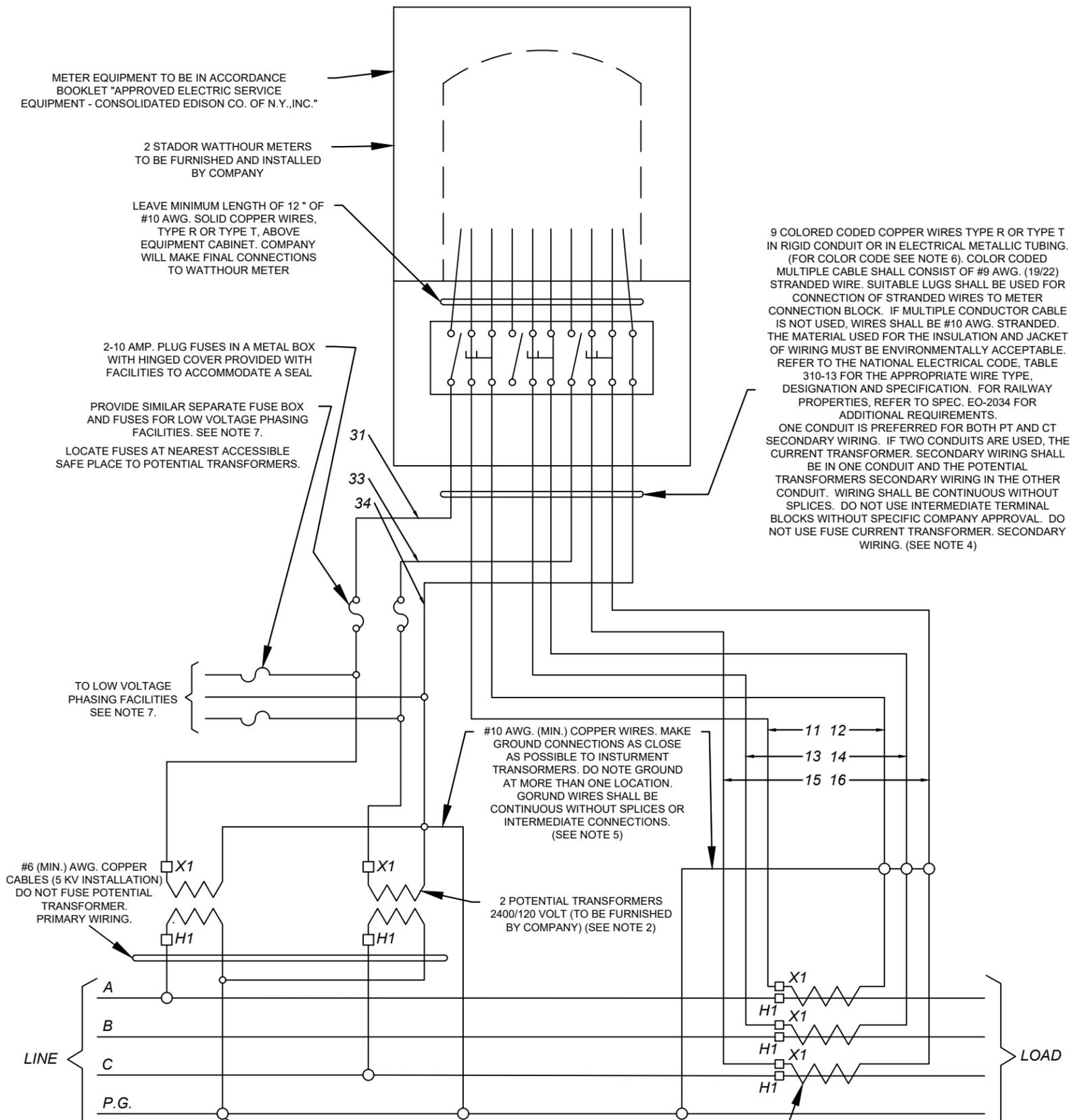
D.E. 6-1-2018

C. FELDMAN 5

UPDATED LAYOUT.
REVIEWED NO CHANGES
MADE.

R.L. 5-6-2024

**FOR REFERENCE ONLY
NOT TO BE USED FOR NEW INSTALLATIONS**



NOTES:

- POLARITY MARKINGS ON POTENTIAL & CURRENT TRANSFORMERS
1. THE CUSTOMER SHALL FURNISH LABOR AND MATERIAL FOR COMPLETE INSTALLATION, EXCEPT OS OTHERWISE NOTED.
 2. CUSTOMER'S INSTRUMENTS OR PROTECTIVE EQUIPMENT SHALL NOT BE CONNECTED TO REVENUE METERING CURRENT OR POTENTIAL TRANSFORMERS. CUSTOMER SHALL PROVIDE SEPARATE INSTRUMENT TRANSFORMERS (CONNECTED ON THE LOAD SIDE OF THE METERING TRANSFORMERS) FOR HIS EQUIPMENT.
 3. CURRENT TRANSFORMER SECONDARY TERMINALS BRIDGED BY A SHORT CIRCULATING WIRE SHALL NOT BE OPEN CIRCUITED BY THE CONTRACTOR. COMPANY WILL REMOVE SHORT CIRCUITING WIRE AND TAG WHEN MAKING FINAL CONNECTIONS TO THE WATTHOUR METER AND CURRENT TRANSFORMERS.
 4. WIRING TO CURRENT & POTENTIAL TRANSFORMER SECONDARIES SHALL BE CUT AND FORMED TO PROPER LENGTH AND IDENTIFIED. COMPANY WILL MAKE FINAL CONNECTIONS TO INSTRUMENT TRANSFORMER SECONDARY TERMINALS.
 5. ALL SECONDARY GROUND CONNECTIONS AND CASE GROUND SHALL BE MADE SO THAT THEY REMAIN GROUNDED WHEN THE PRIMARY GROUND DISCONNECTING POINTS ARE OPENED FOR HI-POT TESTS. INSTRUMENT TRANSFORMER CASES AND METER CASES, IF MOUNTED ON INSULATED STRUCTURES, SHALL BE GROUNDED SEPARATE FROM SECONDARY WIRING GROUND, USING #6 AWG. (MIN.) COPPER FOR TRANSFORMERS CASES, AND #10 AWG. (MIN.) COPPER FOR METER CASES.
 6. COLOR CODE:

WIRE NO.	COLOR	WIRE NO.	COLOR
31	BLUE	11	RED
33	BLACK	12	RED WITH TRACER
34	ORANGE WITH TRACER	13	WHITE
		14	WHITE WITH TRACER
		15	GREEN
		16	GREEN WITH TRACER

7. LOW VOLTAGE PHASING FACILITIES ARE REQUIRED WHERE SERVICE CONSISTS OF MORE THAN ONE 4KV FEEDER. (REFER TO DWG. NO. EO-3477-D)
8. FOR COMPLETE REQUIREMENTS, REFER TO METER ENGINEERING SPEC. 350.
9. THIS WIRING SCHEME IS USED FOR EXISTING INSTALLATION ONLY. FOR NEW INSTALLATION TO METERING 3 PHASE 4 WIRE 2400/4150 VOLT GROUNDED WYE SERVICE, MES 166 MUST BE USED.
10. NO A-BASE EQUIPMENT SHALL BE ISSUED FOR NEW LOW TENSION INSTALLATIONS. THIS SPECIFICATION IS FOR REFERENCE ONLY.

**WIRING DIAGRAM FOR METERING
2400/4150 VOLT 3 PHASE
4 WIRE SERVICE USING 2
POTENTIAL TRANSFORMERS AND
3 CURRENT TRANSFORMERS**

**CONSOLIDATED EDISON COMPANY
OF N.Y., INC.
ELECTRIC METER SHOP**

DRAWN BY:
W.J.T.

SCALE: NONE
UNITS: INCHES

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

FOR APPROVAL

DIV	SIGNATURE	DATE	DATE: 1/14/1970
			LAST REV: 5/3/2024
			APPROVED
			SUPERVISOR: CHARLES FELDMAN
			SECTION MANAGER

DWG NO. **MES 166-A** REV. 5