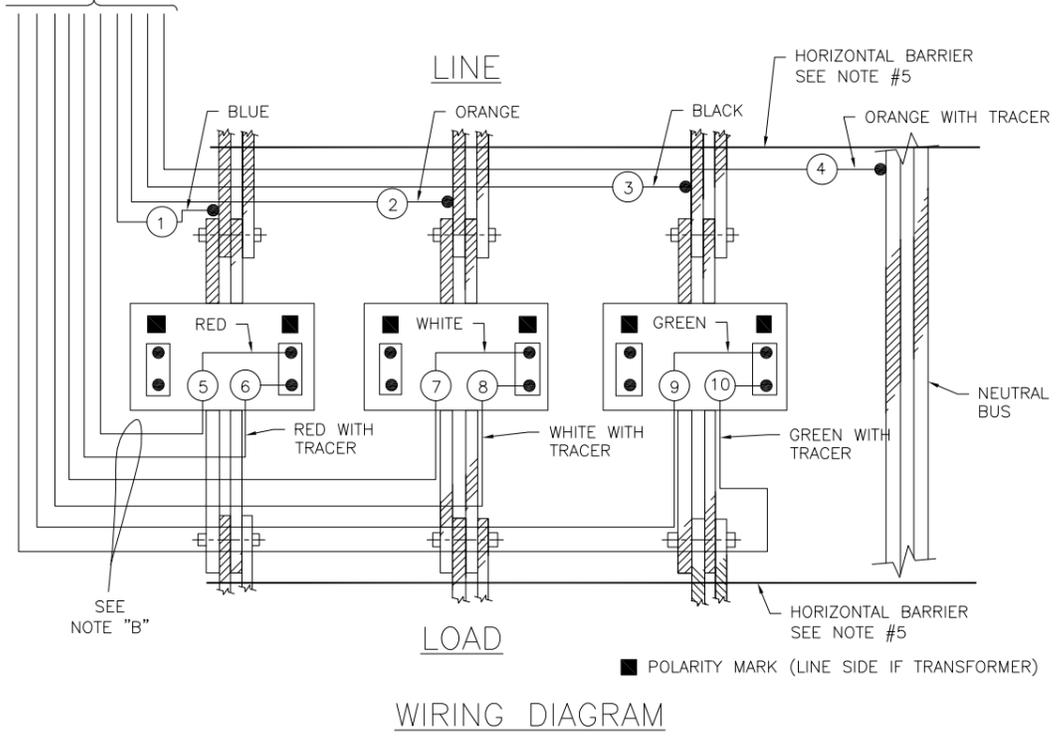
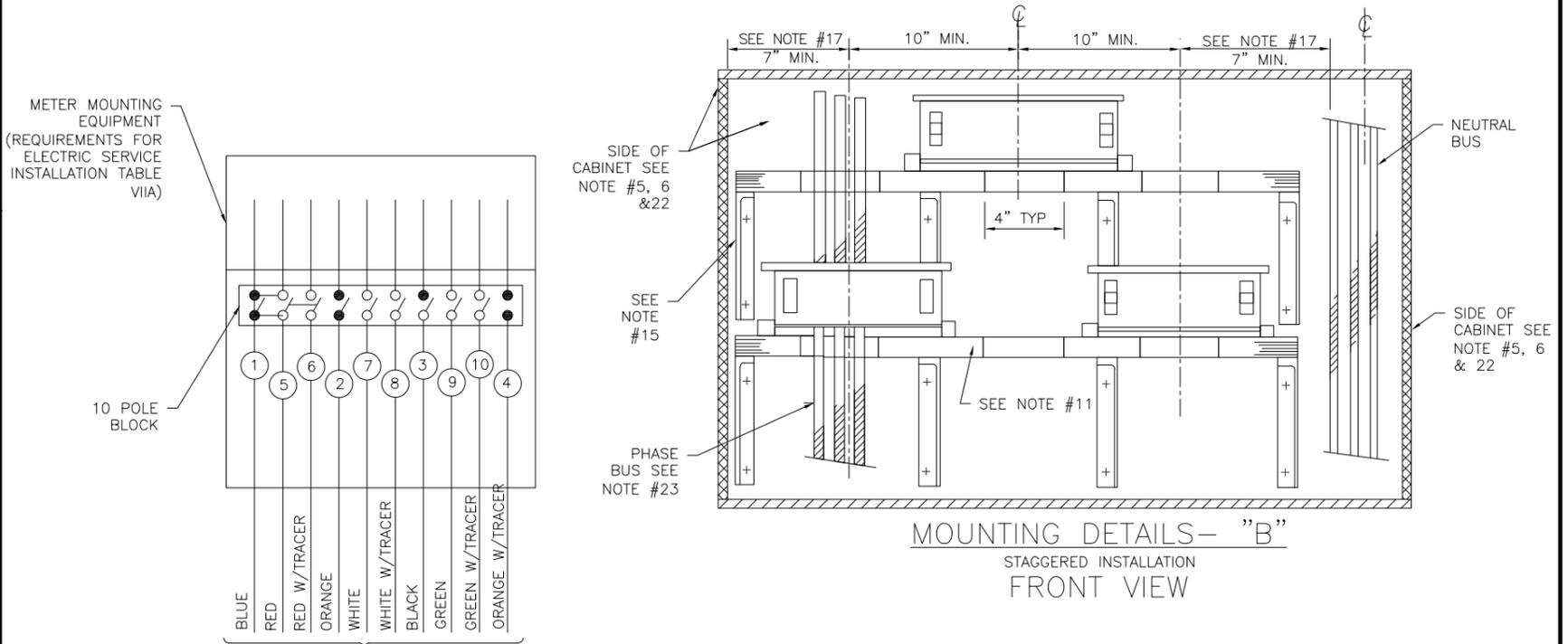
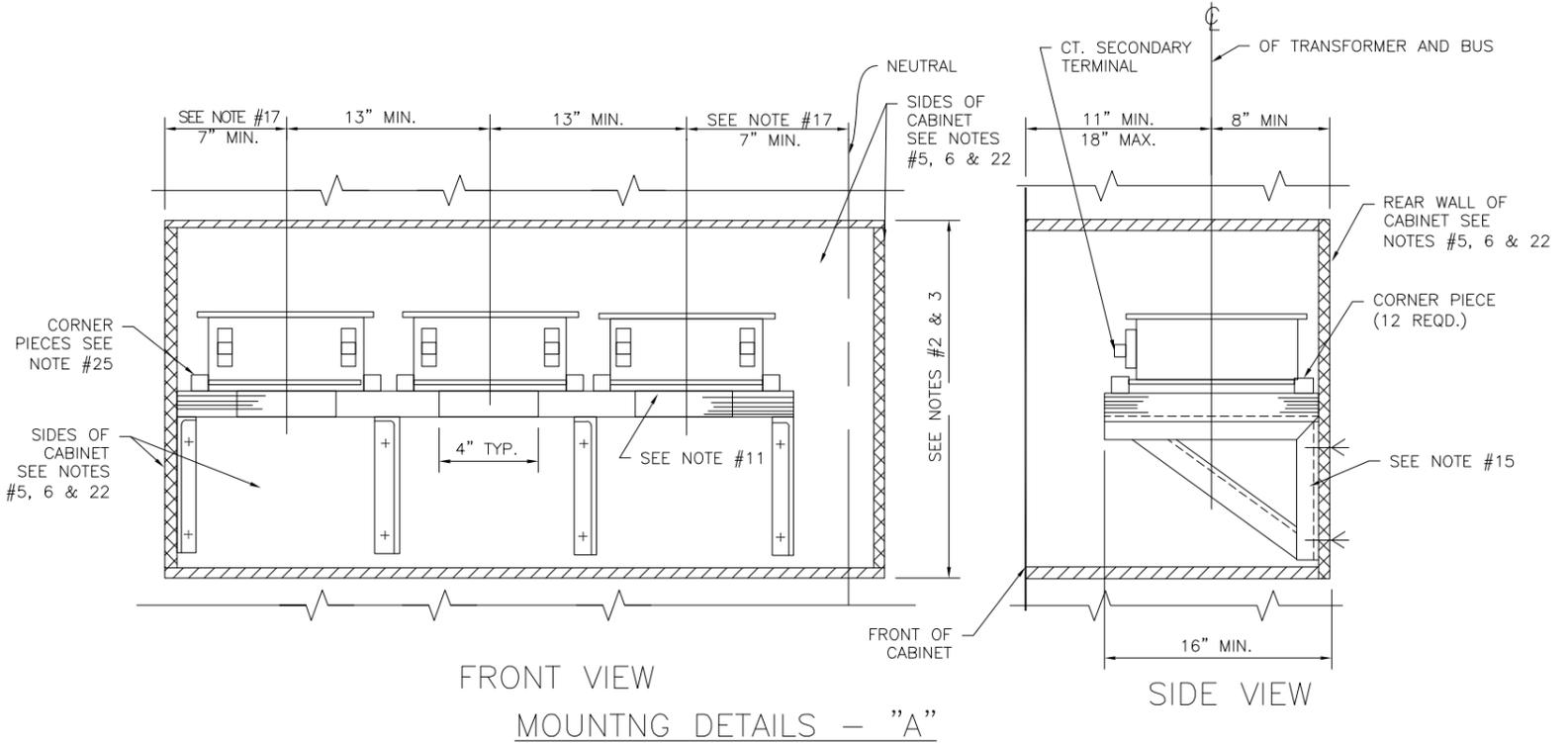


EO-08413-D

REVISIONS

JAS 2/10/87	18	CHANGED DWG. FROM "B" TO "A" SIZE. UPDATED NOTES. C.W. 2-9-87
JAS 9/12/88	19	CHANGED DIMENSIONS OF CURRENT TRANSFORMER ADDED MOUNTING HOLES. V.D. 4-19-88
TPM 7/31/89	20	CLARIFIED NOTE "E" ADDED NOTE "G". J.L. 7-26-89
JAS 12/9/91	21	CHANGED NOTES 4, 5 & 10. ADDED NOTES 22, 23 & 24. RENUMBERED NOTES 14 THRU 22. ADDED "L" SHAPED BUS DETAIL. ADDED HORIZONTAL BARRIERS AND ENCLOSURE TO WIRING DIAGRAM AND MOUNTING DETAILS A&B. ADDED DIMENSIONS TO CURRENT TRANSF. TABLE. G.K. 12-9-91
V.FERGUSON 1/8/01	22	ADDED NOTE 4. RENUMBERED NOTES. G.D. 1/8/01
V.FERGUSON 7/19/01	23	RENUMBERED REFERENCE TO NOTES IN DETAILS AND WIRING DIAGRAM. REMOVED NOTE A. ADDED REF. DRAWING. G.D. 7/19/01
C. MAGOULAS 07/03/14	24	REDRAWN IN AUTOCAD. A.R. 07-17-14
C. MAGOULAS 06/05/19	25	Updated Note D A.M. 06/05/19
M. PAROBK/ T. SIDHOM 05/24/24	26	UPDATED NOTE 3 AND ADDED NOTE 26 T.S. 05/24/24



THIS DWG. SUPERSEDES DWG. U-B-26264

MOUNTING DETAILS AND WIRING FOR 1000-4000 AMP. WINDOW TYPE CURRENT TRANSFORMERS

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
ELECTRIC METER SHOP
SHEET 1 OF 2

DATE 5-2-51
LAST REV. 5-24-24
DWG. NO MES 377-D
REV. 26

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DRAWN BY JAMS 2-9-87	CHECKED BY SA	DATE	DATE
APPROVED	SA	N.T.S.	
MR.		DATE	
MR.		DATE	

D-31780-03

REVISIONS

SEE SHEET ONE OF TWO FOR REVISIONS

NOTES: (FOR WIRING)

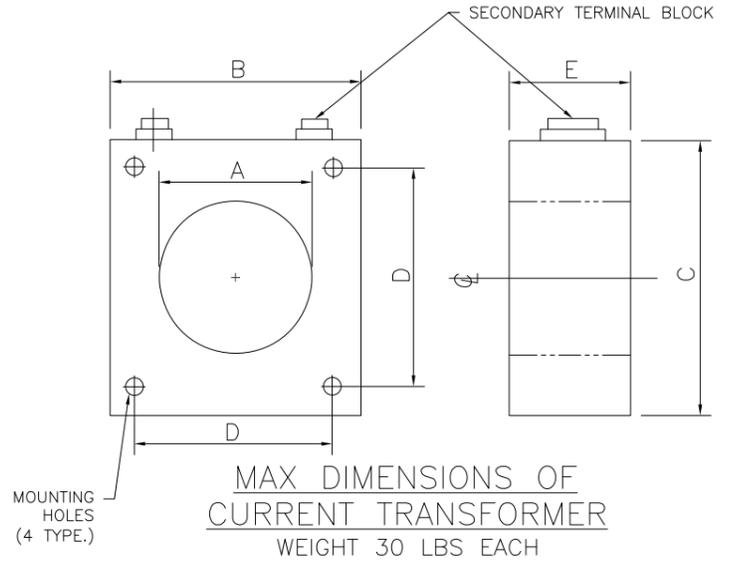
- A- WIRES NOS. 5, 6, 7, 8, 9 & 10 ARE TO BE LEFT WITH SUFFICIENT SLACK TO REACH ANY SET OF SECONDARY TERMINALS, BUT ARE TO BE CONNECTED TO CT'S BY CON EDISON.
- B- TRANSFORMERS ARE SHOWN FOR SERVICE FROM THE TOP, IF SERVICE IS FROM THE BOTTOM, THE TRANSFORMERS ARE TO BE SET WITH THE "LINE" MARKING OF TRANSFORMERS AT THE BOTTOM.
- C- ALL METERING WIRES (CURRENT AND POTENTIAL) SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE CURRENT TRANSFORMERS TO METERS. THE WIRES SHALL BE INSTALLED IN RIGID CONDUIT OR ELECTRICAL METALLIC TUBING. TROUGH OR TRAY INSTALLATIONS ARE NOT ACCEPTABLE. THE CONDUIT MUST BE CONTINUOUS FROM THE CURRENT TRANSFORMER ENCLOSURE TO THE METER MOUNTING EQUIPMENT.
- D- MULTIPLE CONDUCTOR CABLE IS TO BE #9 AWG. (19 / 22) STRANDED OR #10 AWG. SOLID COPPER WIRE WITH R-OR-T TYPE INSULATION. SINGLE CONDUCTORS ARE TO BE #10 AWG. SOLID OR STRANDED COPPER WITH R-OR-T TYPE INSULATION. INSULATED RING TONGUE LUGS ARE TO BE USED FOR CONNECTION OF STRANDED WIRES TO THE METER CONNECTION BLOCK AND TO LINE BUS, SPADE OR FORK TYPE LUGS ARE NOT ACCEPTABLE.
- E- DISTANCE BETWEEN CURRENT TRANSFORMERS AND METER MOUNTING EQUIPMENTS IS NOT TO EXCEED 25 LINEAR FEET.
- F- ALL WIRES ARE TO BE COLOR CODED AS SHOWN.

NOTES

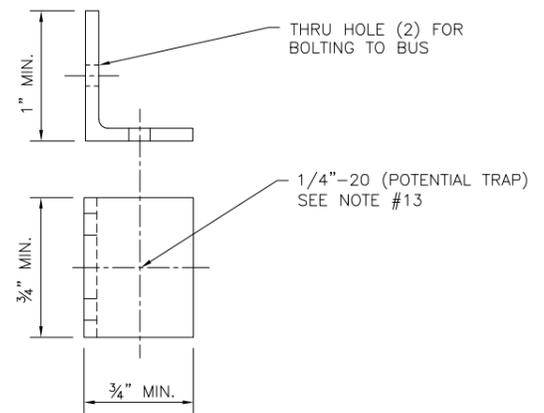
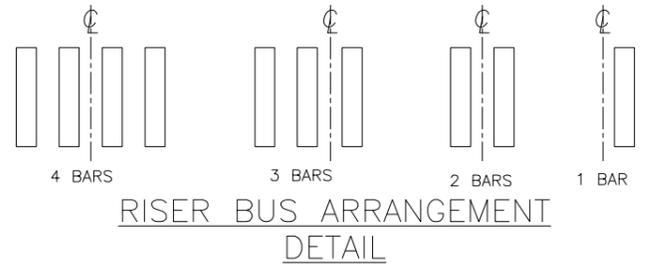
1. THE CUSTOMER OR CONSULTANT SHALL RECEIVE OFFICIAL CON EDISON APPROVAL OF THE ANUFACTURER'S EQUIPMENT DRAWING PRIOR TO THE SWITCHGEAR'S ASSEMBLY OR INSTALLATION NONCOMPLIANCE WITH THE COMPANY'S RULES AND SPECIFICATIONS MAY CAUSE DELAYS AND NON APPROVAL
2. THE INSTALLATION AND SWITCHGEAR SHALL MEET THE NATIONAL AND NY C ELECTRICAL CODES.
3. THE CURRENT TRANSFORMER ENCLOSURE OR COMPARTMENT SHALL BE SEPARATE, SEALABLE PROPERLY BARRIERED AND ACCESSIBLE SUCH THAT THE CURRENT TRANSFORMERS CAN BE READILY INSTALLED OR CHANGED.
4. CURRENT TRANSFORMERS ARE TO BE INSTALLED ON THE LINE SIDE OF THE SERVICE DISCONNECT SWITCH, WHERE PERMITTED BY THE REGULATORY AUTHORITIES HAVING JURISDICTION HOWEVER, INN THE CASE OF A 265/460 VOLT SERVICE, THERE MUST BE A SERVICE DISCONNECT SWITCH ON THE LINE SIDE OF THE CURRENT TRANSFORMERS.
5. IN MULTI COMPARTMENT SWITCHGEAR THE CURRENT TRANSFORMER COMPARTMENT SHALL BE SEPARATED FROM OTHER EQUIPMENT BY HORIZONTAL RESTRICTING BARRIERS TO PREVENT ANY SERVICEABLE PARTS TOOLS, ETC FROM FALLING INTO A LIVE PART OF EQUIPMENT LOCATED BELOW THE BARRIERS SHALL BE SECURELY FASTENED TUN PLACE ANY OUTSIDE EDGE OF THE BARRIER NOT IN CONTACT WITH A COMPARTMENT WALL SHALL HAVE AN UPTURNED FLANGE AT LEAST 3/4" HIGH THE BARRIER SHALL BE 1/8" THICK NON-METALLIC (EX GLASTIC MATERIAL OR EQUIVALENT) AND REINFORCED TO PROVIDE MECHANICAL STRENGTH
6. THE ENCLOSURE HOUSING THE CURRENT TRANSFORMERS (CTS) SHALL BE CONSTRUCTED OF ALUMINUM INCLUDING THE REAR AND TWO SIDEWALLS WITH THE EXCEPTION OF THE STRUCTURAL FRAME AND HORIZONTAL RESTRICTING BARRIERS
7. THE SWITCHGEAR SECTION HOUSING THE TRANSFORMER SHALL BE DESIGNED WITH A SEPARATE SEALABLE HINGED DOUBLE DOOR AND THREE WAY CATCH THE DOOR HANDLE IS TO HAVE FACILITIES TO ACCOMMODATE THE STANDARD SEALS AND PADLOCKS WITH 5/16" HASP THE DOORS ARE TO SPAN THE OVERALL WIDTH IF THE CURRENT TRANSFORMER COMPARTMENT ADEQUATE SPACE SHALL BE PROVIDED ABOVE AND BELOW BUS JOINTS TO ALLOW DISCONNECTION OF THE BUS WITHOUT THE USE OF SPECIAL TOOLS
8. AN OPENING IN THE BARRIER OR A SIDEWALL OF THE SWITCHGEAR THROUGH WHICH A FACTORY INSTALLED WIRE, CABLE OR BUS PASSES, OR THROUGH WHICH A FIELD INSTALLED WIRE CAN PASS, SHALL BE PROVIDED WITH A BUSHING TO PREVENT ANY SHARP EDGES IN COMING IN CONTACT WITH THE WIRE, CABLE OR BUS A BUSHING OF RUBBER, NEOPRENE OR HOT MOLDED SHELLAC AND TAR COMPOSITION IS NOT ACCEPTABLE AN ACCEPTABLE BUSHING MAY BE OF OF GLASS, PORCELAIN, HARD FIBER, PHENOLIC COMPOSITION, COLD MOLDED COMPOSITION OR THE OPENING SO FORMED THAT THERE WILL BE NO SHARP EDGES WITH WHICH INSULATED CONDUCTORS MAY COME IN CONTACT
9. HORIZONTAL BARRIERS SHALL NOT BE VENTILATED
10. THERE IS TO BE A CLEAR SPACE OF AT LEAST THREE (3) FEET IN FRONT OF THE CURRENT TRANSFORMER ENCLOSURE IF THE CURRENT TRANSFORMER ENCLOSURE IS NOT LOCATED IN A SEPARATE ROOM BUT IS LOCATED IN AN OPEN FLOOR AREA, AN UNOBSTRUCTED SPACE OF AT LEAST FIVE (5) FEET MUST BE MAINTAINED IN FRONT OF THE EQUIPMENT.
11. THE SHELF SHALL BE DESIGNED TO HAVE 3 "U" SHAPED OPENINGS TO FACILITATE THE INSTALLATION AND REPLACEMENT OF CURRENT TRANSFORMERS THE SHELF SHALL BE MADE OF NON-MATALLIC MATERIAL (EX GLASTIC MAT OR EQUIVALENT)
12. MOUNTING OF THE TRANSFORMER MAY BE STAGGERED VERTICALLY IF CLOSER CENTERS ARE REQUIRED WITH A MINIMUM OF 10 INCHES BETWEEN BUS CENTERS (SEE MOUNTING DETAIL - B).
13. THE POTENTIAL WIRING (1, 2, 3 & 4) IS TO BE CONNECTED TO THEIR RESPECTIVE BUS ON THE LINE SIDE AND ADJACENT TO THE CURRENT TRANSFORMERS FOR COPPER BUS THE CONNECTORS SHALL USE 1/4"-20 SCREWS AND LOCKWASHERS, FOR ALUMINUM BUS, ZINC COATED SCREWS AND LOCKWASHERS, AND TIN COATED WIRE TERMINALS SHALL BE USED. PREPARE BUS WITH "PENETROX--A" OR EQUIVALENT THE SCREW HEAD SHALL FACE THE CABINETS FRONT VIEW BY MEANS OF AN "L" SHAPED BUS OR EQUIVALENT
14. THE TRANSFORMERS ARE TO BE INSTALLED SO THAT THE POLARITY MARKING ON THE TRANSFORMER ARE ON THE LINE SIDE AND THE SECONDARY CONNECTIONS ARE READILY ACCESSIBLE.
15. THE SHELF SUPPORTING BRACKETS SHALL BE OF NON-CONDUCTIVE MATERIAL TO SUPPORT THE SHELF AND CURRENT TRANSFORMERS
16. PHASE BUS BARS, INCLUDING NEUTRAL BUS BARS, SHALL BE ARRANGED FACE TO FACE THE BUS BARS SMALLER DIMENSIONED EDGE SHALL FACE THE FRONT
17. A MINIMUM OF 7 INCHES OF SPACE SHALL BE PROVIDED FROM THE CENTER LINE OF THE CURRENT TRANSFORMER WINDOW AND ADJACENT EDGE OF THE NEUTRAL BUS OR ENCLOSURE SIDEWALL
18. THE NUMBER OF BUS BARS SHALL NOT EXCEED FOUR (4) FOR EACH PHASE.
19. COPPER OR ALUMINUM BUS BARS SHALL BE NOMINALLY 1/4 INCH THICK AND NOT LESS THAN 4 INCHES NOR MORE THAN 6 INCHES WIDE BUS BAR CONFIGURATIONS SHALL BE FLAT AND RECTANGULAR
20. BUS BAR CONNECTIONS AND JOINTS SHALL BE INTERLEAVED (NOT STACKED) AND HAVE SPACING BETWEEN BUS APPROXIMATELY THE THICKNESS OF ONE BUS BAR, SEE RISER BUS ARRANGEMENT DETAIL
21. BOLTED JOINTS SHALL BE PLATED WITH SILVER, TIN, NICKEL OR CADMIUM
22. THE MINIMUM ELECTRICAL CLEARANCE FOR THE SEPARATION OF LIVE PARTS AND GROUND SHALL BE 0.5 INCHES FOR 250 VOLTS AND BELOW AND 1.0 INCHES FOR ABOVE 250 VOLTS.
23. IN MULTI-COMPARTMENT SWITCHGEAR SERVICE CABLE CONNECTIONS SHALL NOT BE MADE TO THE BUS WITHIN THE CURRENT TRANSFORMER COMPARTMENT
24. A BOLTED JOINT IN A BUS BAR SHALL BE ACCESSIBLE FOR TIGHTENING WITHOUT REMOVING INSULATING TAPE
25. THE TRANSFORMERS ARE TO BE POSITIONED ON THE SUPPORTING SHELF BY MEANS OF CORNER PIECES OR OTHER SUITABLE MEANS IF FRONT AND REAR HOLD DOWN STRAPS ARE USED ACROSS THE TOP OF THE CT'S THE SERVICE MAY BE REQUIRED TO BE DE-ENERGIZED PRIOR TO REMOVAL OF THE CT'S THE CT'S MOUNTING HOLES SHALL BE USED IN CONJUNCTION WITH HOLD-DOWN STRAPS
26. CUSTOMER'S LOAD SHALL NOT EXCEED THE MAXIMUM CURRENT CAPABILITY OF THE INSTRUMENT TRANSFORMER (SEE MEP 47 FOR TRANSFORMER SIZING).

REFERENCE DRAWINGS:

- FORM 9S METER SOCKET ENCLOSURE SPEC. NO.MES 751 314156
- "BUS AND CABINET DETAILS FOR INSTALLATION OF LOW VOLTAGE 400 OR 800 AMP BAR-TYPE CURRENT TRANSFORMERS".....MES-298
- "WIRING DIAGRAM FOR 200-800AMP BAR-TYPE CURRENT TRANSFORMERS".....MES-195
- ORDERING AND ASSIGNING ELECTRIC METERS AND METER DEVICES.....MEP NO. 47



CT AMPERE RATING	DIMENSION (INCHES)				
	A	B	C	D	E
1000/2000	5 3/4	8 1/2	8 11/16	6 3/4	4
2000/4000	8 1/8	11	11 3/16	8 1/2	4



THIS DWG. SUPERSEDES DWG. U-B-26264

MOUNTING DETAILS AND WIRING FOR 1000-4000 AMP. WINDOW TYPE CURRENT TRANSFORMERS

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
ELECTRIC METER SHOP
SHEET 2 OF 2

DATE 5-2-51 DWG. NO. MES 377-D REV. 26
LAST REV. 5-24-24

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DATE	CHKD BY	DATE
5-2-51	SA	2-9-57
LAST REV. 5-24-24	SA	N.T.S.