

E0-12181-B

REVISIONS

ALEX LIN 04/04/2018 7

REMOVED OLD PLAN AND FRONT VIEWS AND ADDED NEW PLAN AND ELEVATION OF TRANSF. PAD, GROUND RODS AND GROUND CABLE.

REVISED INSTALLATION PROCEDURES AND REFERENCE SPECS. AND DWGS.

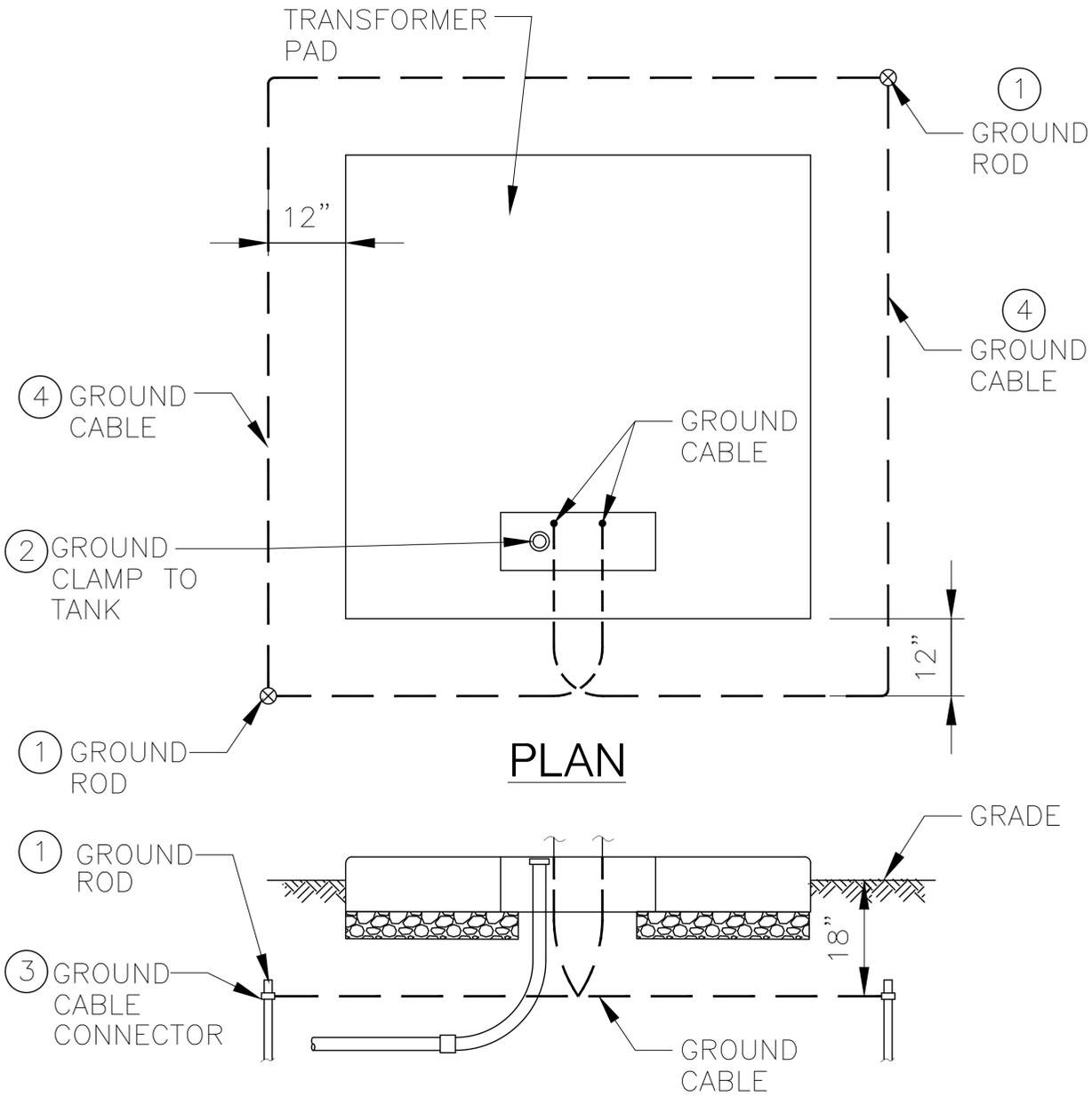
REVISED BILL OF MATERIAL.

H.J.M. 04/04/2018

ALEX LIN 07/16/2019 8

REMOVED NOTE 5. RENUMBERED NOTE 6. REMOVED EFFECTIVE DATE. ADDED NOTE FOR REPLACEMENTS NOT REQUIRING NEW PAD UNDER INSTALLATION PROCEDURES, INCLUDING CLASS/STOCK FOR APPLICABLE ITEMS. REMOVED TWO REFERENCE DRAWINGS.

N.B 07/16/2019



Approved

INSTALLATION PROCEDURES:

- 1- INSTALL 2-1/2" DIA. X 8' LONG GROUND RODS AT DIAGONAL CORNERS OF BOX PAD (C&S #007-0961) INTO UNDISTURBED SOIL MINIMUM 6'-0" APART.
- 2- INSTALL 20' MINIMUM LENGTH OF 2/0 BARE CU CABLE IN A TRENCH 18" DEEP AND 12" OUTSIDE THE EDGE OF THE BOX PAD (C&S #564-1333) AND BRING INTO PAD WITH SUFFICIENT SLACK TO ENSURE EASE OF DISCONNECTING CABLES FROM EQUIPMENT CASE GROUND.
- 3- CONNECT THE 2/0 CU CABLE AND THE GROUND RODS WITH GROUND CABLE CONNECTOR (C&S #007-8618).
- 4- ENSURE PROPER GROUND CLAMPS FOR EQUIPMENT CASE GROUND AS PER C&S #504-0126 OR C&S #571-0959 FOR ARRESTERS (IN EO-16898-B).
- 5- IF 2/0 GROUND CABLE RING CANNOT BE ACHIEVED OR IF PROPER DEPTH FOR GROUND RODS CANNOT BE ACHIEVED, TAKE GROUND RESISTANCE READINGS WITH THE APPROVED AEMC GROUND RESISTANCE TESTER MODEL 6416 OR 3 TERMINAL MEGGER TOOL. CONSULT SECTION MANAGER OF OVERHEAD STANDARDS AND PLANNING ENGINEERING FOR ALTERNATIVE METHODS OF GROUNDING.

NOTE: APPLIES TO NEW BOX PAD INSTALLATIONS. IF BOX PAD IS NOT BEING REPLACED, ENSURE, AT MINIMUM, 1 X 8' GROUND ROD INSTALLED BELOW GRADE OF BOX PAD, CONNECTED TO TANK WITH #2 COPPER GROUND CABLE (C/S# 564-0081).

REFERENCE DWGS:

- SPEC. FOR BARE AND COATED ELECTRICAL CONDUCTORS -----EO-6
- PURCHASE SPECIFICATION FOR GROUND WIRES -----EO-24
- ADEQUATE GROUND REQUIREMENTS AND GROUNDING OF SPACER TYPE AND METAL SHEATHED AERIAL CABLE -----EO-2013
- REQUIREMENTS FOR NEUTRAL CONDUCTOR ON PRIMARY RADIAL DISTRIBUTION CIRCUITS -----EO-2025
- INSTALLATION OF DRIVEN GROUND RODS -----EO-8265-B
- CONCRETE PAD FOR 3 PHASE PAD-MOUNTED TRANSFORMERS -----EO-13775-B
- INSTALL. OF BOX PAD SPLICE BOX AND CABLE FOR MINIPAD-MOUNTED TRANSFORMER (URD) -----EO-15351-A
- TYP. URD. INSTALLATION OF SINGLE PHASE DUAL RATIO MINIPAD-MOUNTED TRANSFORMER -----EO-16348-A
- INSTALL. OF PLUG-IN TYPE ELBOW ARRESTER ON ONE PHASE 7.6 kV MINIPAD-MOUNTED URD TRANSFORMER LOOP & RADIAL -----EO-16898-B
- HL-45 FIBERGLASS BOX PAD FOR MINI PAD TRANSFORMER -----326199
- INSTALLATION OF 13KV THREE PHASE (PME) (PAD-MOUNTED EQUIPMENT) SWITCH -----328192

FIELD MANUAL NO. 24
URD
SECTION 8:
TRANSFORMERS

FIELD MANUAL NO. 22
URD
SECTION 8:
TRANSFORMERS

CONSTRUCTION
MANUAL NO.3
SECTION 6:
GROUNDING

5	AS NEEDED	GROUND CLAMP TO TANK FOR ARRESTER	571-0959
4	20' MIN.	2/0 CU BARE CABLE	564-1333
3	2	GROUND CABLE CONNECTOR TO ROD	007-8618
2	2	GROUND CLAMP TO TANK	504-0126
1	2	GROUND ROD 8'-0" X 1/2" DIA.	007-0961
ITEM NO.	QUANTITY	DESCRIPTION	CLASS & STOCK NO.

BILL OF MATERIAL

**GROUNDING FOR
PAD-MOUNTED TRANSFORMERS
AND SWITCHES**

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

DATE 11/5/64
LAST REV. 07/16/2019

DWG. NO. **E0-12181-B** REV. **8**

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DRAWN BY CADAM	DATE 11/5/64	CHECKED BY	DATE
DISCIPLINE CODE	SCALE	N.T.S.	
APPROVED			
MGR. PROJECT ENGINEER	DATE		
MGR. RADIAL DIST. MANAGER	DATE		