EO-13775-B

REVISIONS

| | |
|---|---|
| LUIS ORTEGA 11/4/96 | 5 |

REDRAWN TO AUTOCAD. UPDATED MATERIAL AND CONSTRUCTION SPECS., REF. SPECS., TABLE, PLAN, SECT. A–A, SECT. B–B, AND CH'D TITLE AND SIZE OF DWG.

H.J.M. 10–30–96

| | |
|---|---|
| LUIS ORTEGA 1/24/97 | 6 |

CHANGED SUPERSEDE NOTE FROM EO–13775–C TO EO–13757–C.

H.J.M. 1–24–97

| | |
|---|---|
| S. PARASHER 4/6/05 | 7 |

ADDED URD MANUAL NO. 24 IN FILING INFO.

J.T. ABBRUSCATO 4/6/05

| | |
|---|---|
| S. THANGAVELU 11/21/2011 | 8 |

ADDED NOTES 1 & 2.

IN MAT'L SPECS. CORRECTED STK. # FROM 000–0208 TO 000–0802 FOR SPEC. EO–100,167.

H.J.M. 11/21/2011

| | |
|---|---|
| E. CHAM 5/12/15 | 9 |

ADDED 2500 KVA TRANSFORMER TO TABLE

K.T. 5/12/15

| | |
|---|---|
| O. CHILAKA 8/1/17 | 10 |

CHANGED NOTES SECTION, ADDED REFERENCE SPECS.

D.E. 8/1/17

| | |
|---|---|
| O. CHILAKA 7/24/2019 | 11 |

UPDATED DIMENSIONS IN PLAN VIEW & SECTION A–A.
UPDATED TABLE.
ADDED NOTE 4.
UPDATED REF. SPECS.
UPDATED CONSTRUCTION SPECIFICATIONS.

K.T. 7/24/2019

| | |
|---|---|
| M. ALI–BAPPI 9/22/2022 | 12 |

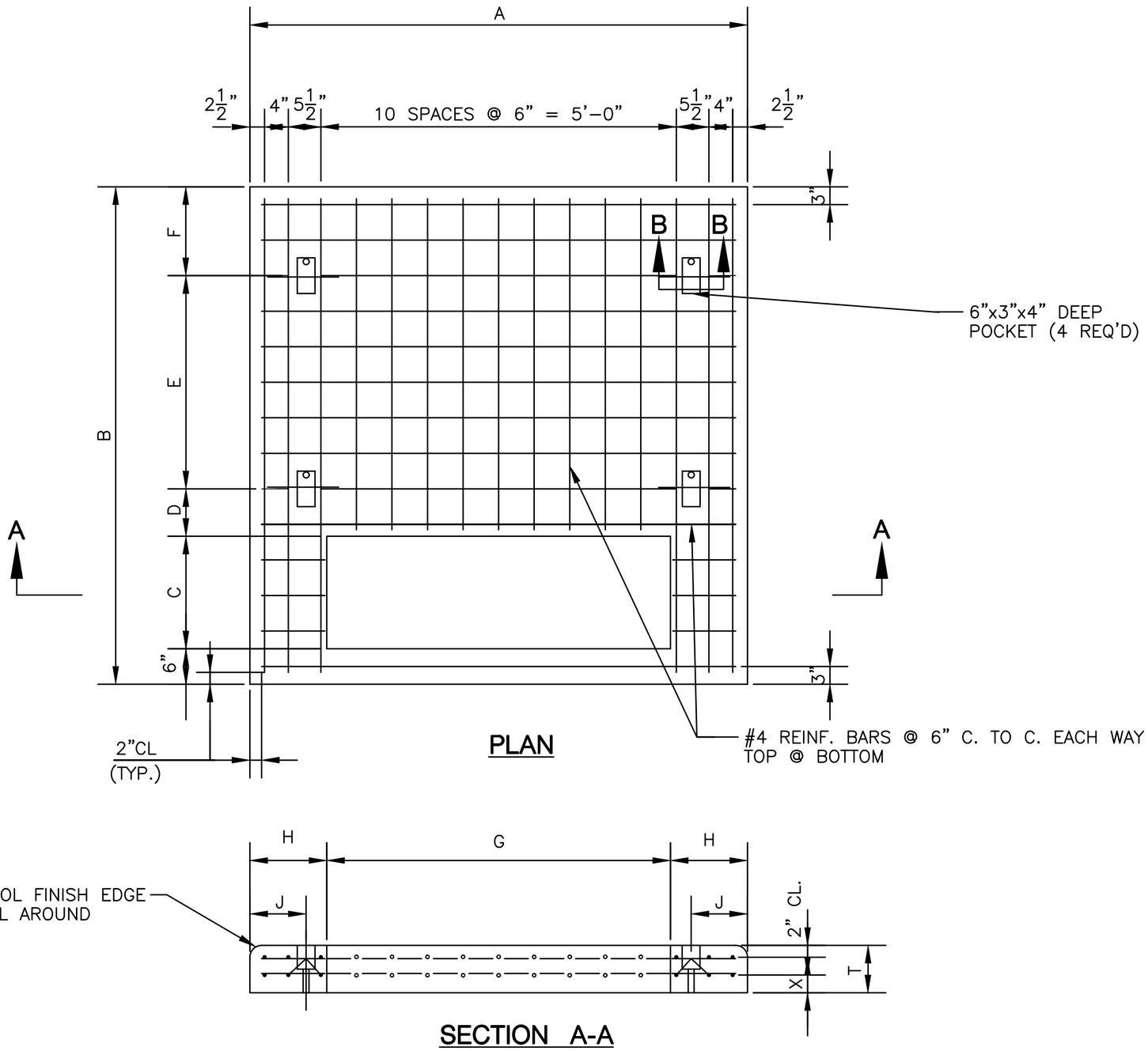
ADDED NOTES 7–9.
ADDED TRANSFORMER SIZES 750kVA & 1500kVA TO THE TABLE.
ADDED 27KV TO THE 2000kVA & 2500kVA ROW IN THE TABLE.
ADDED REFERENCE TO DWG. No.507436.

KT 9/22/2022

FIELD MANUAL NO.24: SECTION 8: TRANSFORMERS

FIELD MANUAL NO.22: SECTION 8: TRANSFORMERS

CONSTRUCTION STDS. MANUAL NO.3: SECTION 37: SUBWAY



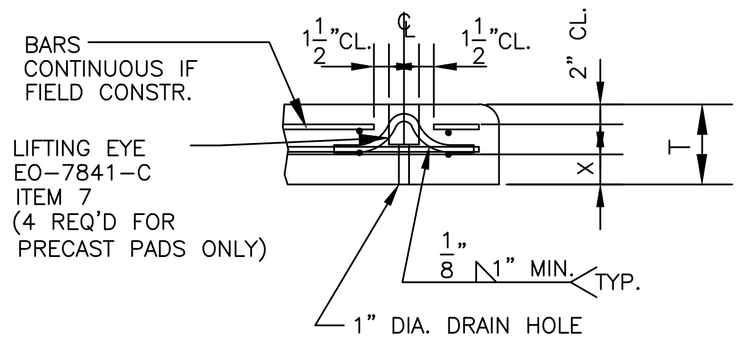

TABLE

| THREE PHASE TRANSFORMER SIZE (KVA) | PRIMARY VOLTAGE | CONCRETE PAD TYPE OF INSTALLATION SEE NOTE 7 | DIMENSIONS (INCHES) A | B | C | D | E | F | G | H | J | T | X | APPROX. CONC. VOL. (CU. YDS.) | APPROX. PRECAST PAD WEIGHT (LBS.) REINF. | PAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75–750 | 4KV & 13KV | FIELD POURED | 84 | 72 | 19 | — | — | — | 44 | 20 | — | 8 1/2 | 3 | 0.95 | — | — |
| | | PRECAST | 84 | 72 | 19 | 8 | 30 | 9 | 44 | 20 | 12 | 7 1/2 | 2 | 0.84 | 212 | 3395 |
| | 27KV | FIELD POURED | 84 | 72 | 22 | — | — | — | 44 | 20 | — | 8 1/2 | 3 | 0.93 | — | — |
| | | PRECAST | 84 | 72 | 22 | 8 | 27 | 9 | 44 | 20 | 12 | 7 1/2 | 2 | 0.82 | 207 | 3308 |
| 1000–1500 | 4KV & 13KV | FIELD POURED | 84 | 84 | 19 | — | — | — | 58 | 13 | — | 8 1/2 | 3 | 1.08 | — | — |
| | | PRECAST | 84 | 84 | 19 | 8 | 36 | 15 | 58 | 13 | 10 | 7 1/2 | 2 | 0.96 | 233 | 3876 |
| | 27KV | FIELD POURED | 84 | 84 | 22 | — | — | — | 58 | 13 | — | 8 1/2 | 3 | 1.05 | — | — |
| | | PRECAST | 84 | 84 | 22 | 8 | 33 | 15 | 58 | 13 | 10 | 7 1/2 | 2 | 0.93 | 226 | 3767 |
| 2000–2500 | 4KV, 13KV, & 27KV | FIELD POURED | 102 | 84 | 22 | — | — | — | 60 | 21 | — | 11 | 3 | 2 | — | — |



## NOTES:

1. WHERE PRACTICAL, INSTALL PAD SO THE TRANSFORMER WILL FACE (BE ACCESSIBLE FROM) THE STREET.
2. REFER TO EO–6242 FOR PAD LOCATION AND CLEARANCES FROM BUILDINGS, WINDOWS, DOORWAYS AND BARRIER WALLS.
3. REFER TO EO–16696–D FOR PAD CLEARANCE FROM PLANTS.
4. INSTALL GROUND RODS IN ACCORDANCE WITH EO–12818–B INSTRUCTIONS.
5. CONSULT WITH VAULT AND BUS DESIGN GROUP FOR POSSIBLE PAD DESIGN MODIFICATIONS IN FLOOD ZONES AND AREAS WITH UNSTABLE SOIL.
6. FOR PADS LOCATED WITHIN NEW YORK CITY, REVIEW NYC DOT http://streetworksmanual.nyc/appendices/appendixb#4
7. THE TRANSFORMER'S PAD BEARING SURFACE SHOULD NOT OVERHANG THE PAD. THE COOLING RADIATORS OR FINS CAN OVERHANG THE PAD.
8. THE CABLE ENTRANCE OPENING IN THE CONCRETE PAD SHALL BE COMPLETELY COVERED BY THE TRANSFORMER.
9. REFER TO DRAWING No.507436 FOR PROTECTION BARRIER FOR PAD MOUNTED TRANSFORMER SUBJECT TO VEHICULAR TRAFFIC.




SECTION B-B

## CONSTRUCTION SPECIFICATIONS:

REINFORCING BARS SHALL BE WIRE TIED AT ALL CONTACT POINTS WITH PLASTIC COATED WIRE TIES.
ALL REINFORCING BARS SUPPORTED FROM FRAMEWORK SHALL REST ON COATED WIRE BAR SUPPORTS.
EPOXY COATING, DAMAGED AS A RESULT OF HANDLING OR CUTTING OF REINFORCING BARS, SHALL BE REPAIRED WITH PATCHING MATERIAL CONFORMING TO ASTM SPEC. DES A–775.
A 2" MINIMUM OF CONCRETE SHALL BE MAINTAINED OVER ALL REINFORCING BARS AND SHAPES, UNLESS OTHERWISE NOTED.
WHERE MAIN HORIZONTAL BARS ARE CUT FOR REPLACEMENT PURPOSES, SPLICE BARS OF THE SAME SIZE AND AT LEAST 2'–6" LONG SHALL BE INSTALLED ACROSS THE CUT POSITION.
PAD SHALL BE INSTALLED ON A MINIMUM OF 6" CRUSHED STONE.
TOP SURFACE OF PAD SHALL HAVE A STEEL TROWEL FINISH.
TOP OF PAD SHALL BE 6" ABOVE GRADE.
OMIT LIFTING EYES, POCKETS AND DRAIN HOLES FROM FIELD–POURED PADS. FOR PRECAST PADS, FILL LIFTING HOLES AND OPEN AREAS AROUND CONDUITS WITH MORTAR AFTER PAD IS INSTALLED.

## MATERIAL SPECIFICATIONS:

CONCRETE SHALL CONFORM TO CON EDISON SPEC. EO–1008, CLASS II.
CEMENT MORTAR SHALL CONFORM TO CON EDISON SPEC. EO–100,167 (STK # 000–0802).
ALL REINFORCING BARS SHALL BE BILLET STEEL, DEFORMED, AND SHALL CONFORM TO ASTM SPEC. A–615, GRADE 60.
ALL REINFORCING BARS SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM SPEC. A–775.
STRUCTURAL STEEL SHALL CONFORM TO ASTM SPEC. A–36.
WELD STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH EO–11320.

## REF. SPECS.:

INSTALLATION GUIDE FOR OIL–FILLED PADMOUNT TRANS. NEAR A BUILDING DOORWAY AND/OR WINDOWED WALL _ _EO–6242
CLEARANCE FOR PLANTING AROUND TRANS. PADS_ _ _ _EO–16696–B
INSTALLATION OF PAD AND CONDUIT _ _ _ _ _ _ _ _ _ EO–12482–B
THREE PHASE, METAL ENCLOSED PAD MOUNTED TRANSFORMERS_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EO–5015
REQUIREMENTS FOR THE INSTALLATION OF SINGLE AND THREE PHASE PAD MOUNTED TRANSFORMERS _ _ _ EO–6229
GROUNDING FOR PAD–MOUNTED TRANSFORMERS AND SWITCHES _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EO–12181–B
PROTECTION BARRIER FOR PAD MOUNTED EQUIPMENT SUBJECT TO VEHICULAR TRAFFIC_ _ _ _ _ _ _ _ _ 507436

THIS DWG. SUPERSEDES DWG. EO–12180–C, EO–12541–C, EO–13757–C

# CONCRETE PAD FOR THREE PHASE PAD MOUNTED TRANSFORMERS

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

DATE 1/29/70
LAST REV. 9/22/22

DWG. NO. EO-13775-B REV. 12

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

| | |
|---|---|
| DRAWN BY COFFARO DATE 1/29/70 | CHECKED BY DATE |
| DISCIPLINE CODE | SCALE 3/4"=1'–0",1"=1'–0" |

APPROVED

DESIGN MANAGER DATE

SECT. ENG. MANAGER DATE