

TRANSFORMERS

CONSTRUCTION NOTES

Underground tags and labels are located in the Identification Section.

For Pit or Pad Details, see Pads Section.

For Installation of Pipe Barricades, see Pad Details.

For Primary Termination of Transformer, see Termination Section.

For Secondary Termination of Transformer, see Secondary Section.

For Detailing Engineer: The following is a list showing the appropriate Network Protector corresponding with the appropriate Network Transformer.

AMP RATING	NETWORK PROTECTOR ITEM ID.	NETWORK TRANSFORMER PLATE
1875	PROTR001 (SUB)	UWGNT * 500 / 216
2500	PROTR002 (SUB)	UWGNT * 750 / 216
1875	PROTR003 (NON-SUB)	UWGNT * 1000 / 1500
2825	PROTR004 (NON-SUB)	UWGNT * 1500 / 2250

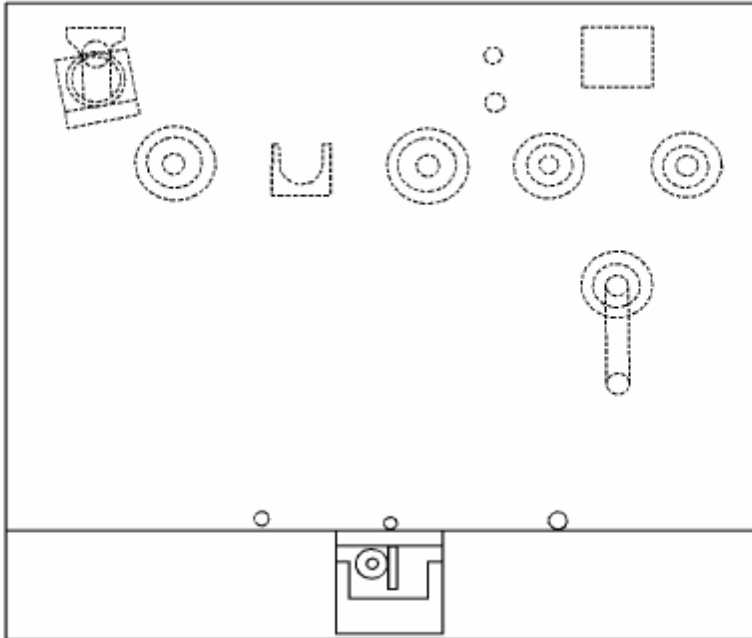
ADDITIONAL PLATES

TRANSFORMER / EQUIPMENT PAINTING

Contractor shall furnish all labor and materials except the paint for the finish coat. All loose paint, scale dirt, concrete and other debris shall be removed prior to painting. All bare metal shall be primed with a JEA approved commercial grade primer. The entire surface to be painted shall be sanded (wire brushed). Just prior to painting, the entire surface shall be thoroughly cleaned with a commercial finish cleaner / reducer.

PLATE	DESCRIPTION	UNIT
PAINT-1	PAINT 1PH XFMR / EQUIP.	EA
PAINT-3	PAINT 3PH XFMR / EQUIP.	EA

UVGA*_ UWGA*_ URGA*_ SINGLE PHASE PADMOUNT



OPTIONS:	
VOLTAGE:	V = 25,565 / 14,706V
	W = 13,200 / 7620V
	R = 4160 / 2400V
SIZES:	25, 50, 75, 100, 167
EXAMPLES:	UVGA*75
	UWGA*50
	URGA*167

NOTES:

1. Plates include secondary connector kits.
2. No livefront or mini-pad transformer will be returned to service after removed from the system.

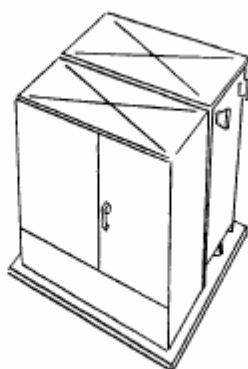
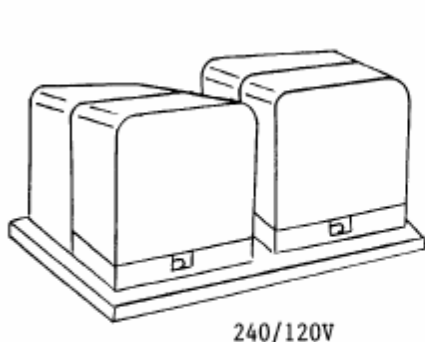
SINGLE PHASE PADMOUNT – 25,565/14,706 V			
PLATE	ITEM	QTY	DESCRIPTION
All Plates Include	BOLMS015	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	COBCO028	5	CONDUCTOR, BARE COPPER #4 S.D.
	INDCF004	1	INDICATOR, CABLE FAULT, 400 AMP
	LOCPA001	1	PADLOCK, BRASS 1-3/4" SHANK
UVGA * 25	TRAMP014	1	TRANSFORMER, PADMOUNT 1 PHASE 25KVA
UVGA * 50	TRAMP009	1	TRANSFORMER, PADMOUNT 1 PHASE 50KVA
UVGA * 75	TRAMP010	1	TRANSFORMER, PADMOUNT 1 PHASE 75KVA
UVGA * 100	TRAMP011	1	TRANSFORMER, PADMOUNT 1 PHASE 100KVA
UVGA * 167	TRAMP012	1	TRANSFORMER, PADMOUNT 1 PHASE 67KVA

SINGLE PHASE PADMOUNT – 13,200/7,620 V			
PLATE	ITEM	QTY	DESCRIPTION
All Plates Include	BOLMS015	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	COBCO028	5	CONDUCTOR, BARE COPPER #4 S.D.
	INDCF004	1	INDICATOR, CABLE FAULT, 400 AMP
	LOCPA001	1	PADLOCK, BRASS 1-3/4" SHANK
UWGA * 25	TRAMP013	1	TRANSFORMER, PADMOUNT 1 PHASE 25KVA
UWGA * 50	TRAMP005	1	TRANSFORMER, PADMOUNT 1 PHASE 50KVA
UWGA * 75	TRAMP006	1	TRANSFORMER, PADMOUNT 1 PHASE 75KVA
UWGA * 100	TRAMP007	1	TRANSFORMER, PADMOUNT 1 PHASE 100KVA
UWGA * 167	TRAMP008	1	TRANSFORMER, PADMOUNT 1 PHASE 167KVA

SINGLE PHASE PADMOUNT – 4,160/2,400 V			
PLATE	ITEM	QTY	DESCRIPTION
All Plates Include	BOLMS015	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	COBCO028	5	CONDUCTOR, BARE COPPER #4 S.D.
	INDCF004	1	INDICATOR, CABLE FAULT, 400 AMP
	LOCPA001	1	PADLOCK, BRASS 1-3/4" SHANK
URGA * 25	TRAMP000	1	TRANSFORMER, PADMOUNT 1 PHASE 25KVA
URGA * 50	TRAMP001	1	TRANSFORMER, PADMOUNT 1 PHASE 50KVA
URGA * 75	TRAMP002	1	TRANSFORMER, PADMOUNT 1 PHASE 75KVA
URGA * 100	TRAMP003	1	TRANSFORMER, PADMOUNT 1 PHASE 100KVA
URGA * 167	TRAMP004	1	TRANSFORMER, PADMOUNT 1 PHASE 167KVA

UVGB

THREE PHASE PADMOUNT OPEN DELTA



FOR REMOVAL ONLY
240/120V
100/25 KVA
100/100 KVA

OPTIONS:			
VOLTAGE:	25,565 / 14760 V		
	13,200 / 7620 V		
	4160 / 2400 V		
SIZES:	SINGLE UNIT	26 kV	UVGB*100 / 25 and UVGB*100 / 100 (REMOVAL ONLY)
	TWO SINGLE PHASE UNIT	26 kV	50, 75, 100, 167 kVA
		13 kV	50, 75, 100, 167 kVA
		4 kV	50, 75, 100, 167 kVA
EXAMPLE:	UVGB*100 / 25 (REMOVAL ONLY)		

NOTE:

When using single phase transformers to build an open delta bank, plate using single phase plates.

EXAMPLE:

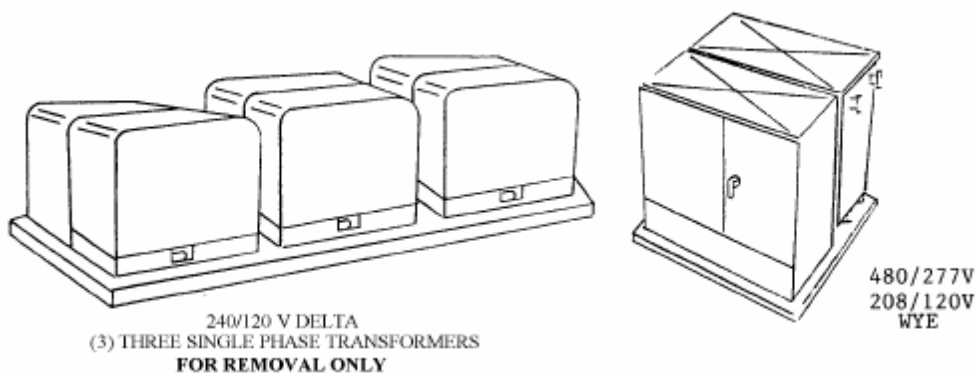
For a 26 kV, 100 / 75 open delta plate one UVGA*100 and one UVGA*75

THREE PHASE PADMOUNT – OPEN DELTA – 25,565/14,706 V			
PLATE	ITEM	QTY	DESCRIPTION
UVGB * 100 / 25 (REMOVAL ONLY)	BM22	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	BN01	16	BOLT, MACHINE, HEX. HEAD 1/2" X 1-1/2"
	CC21	1	CONNECTOR, TRANSF. TANK GRND. #6-#1 S
	CL12	5	CONDUCTOR, BARE COPPER #4 SOFT DRAWN
	TS42	1	TRANSFORMER, PADMOUNT DPLX
	PA12	1	PADLOCK, BRASS 1-3/4" SHANK
	WE03	16	WASHER, SHAKE PROOF LOCK 1/2"
UVGB * 100 / 100 (REMOVAL ONLY)	BM22	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	BN01	16	BOLT, MACHINE, HEX. HEAD 1/2" X 1-1/2"
	CC21	1	CONNECTOR, TRANSF. TANK GRND. #6-#1 S
	CL12	5	CONDUCTOR, BARE COPPER #4 SOFT DRAWN
	TS42	1	TRANSFORMER, PADMOUNT DPLX
	PA12	1	PADLOCK, BRASS 1-3/4" SHANK
	WE03	16	WASHER, SHAKE PROOF LOCK 1/2"

NOTE:

Plate all new open delta installations using two (2) single phase transformer plates.

UVGC* UWGC* URGC* THREE PHASE PADMOUNT



OPTIONS:			
VOLTAGE:	V = 25,565 / 14,760 V		
	W = 13,200 / 7620 V		
	R = 4160 / 2400 V		
WYE SIZES:	26 kV	208 / 120 V	75, 150, 300, 500, 750, 1000, 1500
	13 kV	480/277 V	75, 150, 225, 300, 500, 750, 1000, 1500, 2500, 3750
	4 kV	208 / 120 V	75, 150, 225, 300, 500, 750, 1000
		480/277 V	75, 150, 225, 300, 500, 750, 1000, 1500, 2500
		208 / 120 & 480 / 277 V	75, 150, 300, 500, 750
EXAMPLES: UVGC*2500 / 480 UWGC*1000 / 208			
DELTA SIZES: (REMOVAL ONLY)	All kV, 240/120 V (3 Single Phase Per Bank) 50, 75, 100, 167		
	EXAMPLE: 50 kVA, 26 kV, 3 Phase Delta: Plate 3 Single Phase – UVGA*50		

NOTE:

All Three Phase Plates Include Secondary Connector Kits.

THREE PHASE PADMOUNT – 25,565 / 14,706 V			
PLATE	ITEM	QTY	DESCRIPTION
All Plates Include	BOLMS015	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	BOLTE001	24	BOLT, TERMINAL KIT
	CLATG001	1	CONNECTOR, TRANSF. TANK GRND. #6-#8
	CNNTS004	1	KIT, CONNECTOR, TRANSF. SECONDARY
	COBCO028	5	CONDUCTOR, BARE COPPER #4 S.D.
	INDCF004	3	INDICATOR, CABLE FAULT, 400 AMP
	LOCPA001	1	PADLOCK, BRASS 1-3/4" SHANK
UVGC * 75 / 208	TRAPC000	1	TRANSFORMER, PADMOUNT 3 PHASE 75KVA
UVGC * 150 / 208	TRAPC001	1	TRANSFORMER, PADMOUNT 3 PHASE 150KVA
UVGC * 300 / 208	TRAPC002	1	TRANSFORMER, PADMOUNT 3 PHASE 300KVA
UVGC * 500 / 208	TRAPC003	1	TRANSFORMER, PADMOUNT 3 PHASE 500KVA
UVGC * 750 / 208	TRAPC004	1	TRANSFORMER, PADMOUNT 3 PHASE 750KVA
UVGC * 1000 / 208	TRAPC005	1	TRANSFORMER, PADMOUNT 3 PHASE 1000KVA
UVGC * 1500 / 208	TRAPC006	1	TRANSFORMER, PADMOUNT 3 PHASE 1500KVA
UVGC * 75 / 480	TRAPC015	1	TRANSFORMER, PADMOUNT 3 PHASE 75KVA
UVGC * 150 / 480	TRAPC007	1	TRANSFORMER, PADMOUNT 3 PHASE 150KVA
UVGC * 300 / 480	TRAPC009	1	TRANSFORMER, PADMOUNT 3 PHASE 300KVA
UVGC * 500 / 480	TRAPC010	1	TRANSFORMER, PADMOUNT 3 PHASE 500KVA
UVGC * 750 / 480	TRAPC011	1	TRANSFORMER, PADMOUNT 3 PHASE 750KVA
UVGC * 1000 / 480	TRAPC012	1	TRANSFORMER, PADMOUNT 3 PHASE 1000KVA
UVGC * 1500 / 480	TRAPC013	1	TRANSFORMER, PADMOUNT 3 PHASE 1500KVA
UVGC * 2000 / 480	TRAPC029	1	TRANSFORMER, PADMOUNT 3 PHASE 2000KVA
UVGC * 2500 / 480	TRAPC014	1	TRANSFORMER, PADMOUNT 3 PHASE 2500KVA
UVGC * 3750 / 480	TRAPC016	1	TRANSFORMER, PADMOUNT 3 PHASE 3750KVA

THREE PHASE PADMOUNT – 13,200 / 7,620 V			
PLATE	ITEM	QTY	DESCRIPTION
All Plates Include	BOLMS015	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	BOLTE001	24	BOLT, TERMINAL KIT
	CLATG001	1	CONNECTOR, TRANSF. TANK GRND. #6-#8
	CNNTS004	1	KIT, CONNECTOR, TRANSF. SECONDARY
	COBCO028	5	CONDUCTOR, BARE COPPER #4 S.D.
	INDCF004	3	INDICATOR, CABLE FAULT, 400 AMP
	LOCPA001	1	PADLOCK, BRASS 1-3/4" SHANK
UWGC * 75 / 208	TRAPB000	1	TRANSFORMER, PADMOUNT 3 PHASE 75KVA
UWGC * 150 / 208	TRAPB001	1	TRANSFORMER, PADMOUNT 3 PHASE 150KVA
UWGC * 225 / 208	TRAPB002	1	TRANSFORMER, PADMOUNT 3 PHASE 225KVA
UWGC * 300 / 208	TRAPB003	1	TRANSFORMER, PADMOUNT 3 PHASE 300KVA
UWGC * 500 / 208	TRAPB004	1	TRANSFORMER, PADMOUNT 3 PHASE 500KVA
UWGC * 750 / 208	TRAPB005	1	TRANSFORMER, PADMOUNT 3 PHASE 750KVA
UWGC * 1000 / 208	TRAPB006	1	TRANSFORMER, PADMOUNT 3 PHASE 1000KVA
UWGC * 75 / 480	TRAPB015	1	TRANSFORMER, PADMOUNT 3 PHASE 75KVA
UWGC * 150 / 480	TRAPB007	1	TRANSFORMER, PADMOUNT 3 PHASE 150KVA
UWGC * 225 / 480	TRAPB008	1	TRANSFORMER, PADMOUNT 3 PHASE 225KVA
UWGC * 300 / 480	TRAPB009	1	TRANSFORMER, PADMOUNT 3 PHASE 300KVA
UWGC * 500 / 480	TRAPB010	1	TRANSFORMER, PADMOUNT 3 PHASE 500KVA
UWGC * 750 / 480	TRAPB011	1	TRANSFORMER, PADMOUNT 3 PHASE 750KVA
UWGC * 1000 / 480	TRAPB012	1	TRANSFORMER, PADMOUNT 3 PHASE 1000KVA
UWGC * 1500 / 480	TRAPB013	1	TRANSFORMER, PADMOUNT 3 PHASE 1500KVA
UWGC * 2000 / 480	TRAPB017	1	TRANSFORMER, PADMOUNT 3 PHASE 2000KVA
UWGC * 2500 / 480	TRAPB014	1	TRANSFORMER, PADMOUNT 3 PHASE 2500KVA

THREE PHASE PADMOUNT – 4,160 / 2,400 V			
PLATE	ITEM	QTY	DESCRIPTION
All Plates Include	BOLMS015	2	BOLT, MACHINE, SQ. HEAD 5/8" X 2"
	BOLTE001	24	BOLT, TERMINAL KIT
	CLATG001	1	CONNECTOR, TRANSF. TANK GRND. #6-#8
	CNNTS004	1	KIT, CONNECTOR, TRANSF. SECONDARY
	COBCO028	5	CONDUCTOR, BARE COPPER #4 S.D.
	INDCF004	3	INDICATOR, CABLE FAULT, 400 AMP
	LOCPA001	1	PADLOCK, BRASS 1-3/4" SHANK
URGC * 75 / 208	TRAPA000	1	TRANSFORMER, PADMOUNT 3 PHASE 75KVA
URGC * 150 / 208	TRAPA001	1	TRANSFORMER, PADMOUNT 3 PHASE 150KVA
URGC * 300 / 208	TRAPA002	1	TRANSFORMER, PADMOUNT 3 PHASE 300KVA
URGC * 500 / 208	TRAPA003	1	TRANSFORMER, PADMOUNT 3 PHASE 500KVA
URGC * 750 / 208	TRAPA004	1	TRANSFORMER, PADMOUNT 3 PHASE 750KVA
URGC * 75 / 480	TRAPA009	1	TRANSFORMER, PADMOUNT 3 PHASE 75KVA
URGC * 150 / 480	TRAPA005	1	TRANSFORMER, PADMOUNT 3 PHASE 150KVA
URGC * 300 / 480	TRAPA006	1	TRANSFORMER, PADMOUNT 3 PHASE 300KVA
URGC * 500 / 480	TRAPA007	1	TRANSFORMER, PADMOUNT 3 PHASE 500KVA
URGC * 750 / 480	TRAPA008	1	TRANSFORMER, PADMOUNT 3 PHASE 750KVA

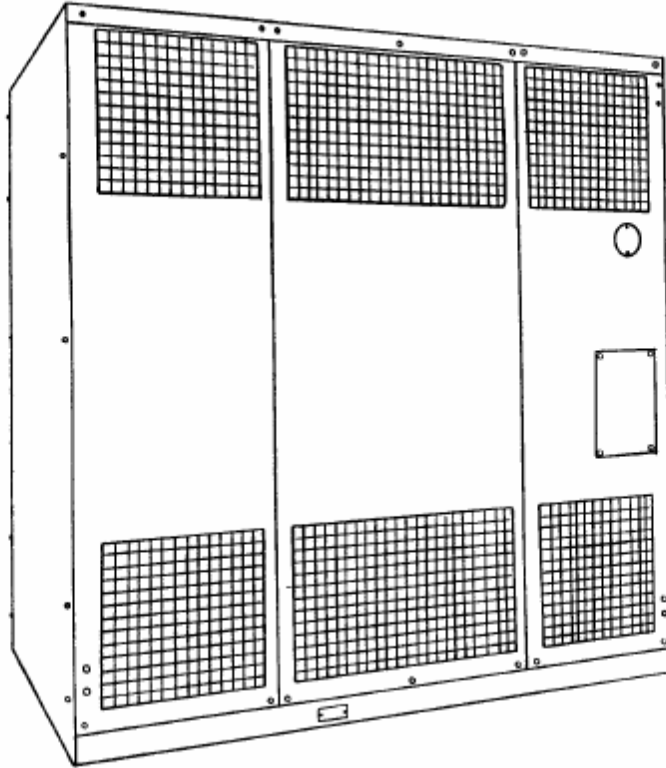
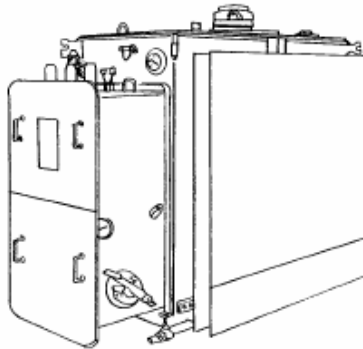
UWGNT***THREE PHASE SPOT 13.2KV PRIMARY****THREE PHASE SPOT NETWORK**

PLATE	ITEM	QTY	DESCRIPTION
UWGNT*1000 / 1500	TRALC001	1	TRANSFORMER, CAST COIL 1000 / 1500KVA
	PROTR004	1	PROTECTOR, 480Y / 277 2825A DUST TIGHT
	CNNTL034	18	TERMINAL LUG, COPPER COMPRESSION 500 MCM
UWGNT*1500 / 2250	TRALC002	1	TRANSFORMER, CAST COIL 1500 / 2250KVA
	PROTR004	1	PROTECTOR, 480Y / 277 2825A DUST TIGHT
	CNNTL034	24	TERMINAL LUG, COPPER COMPRESSION 500 MCM

UWGNT*

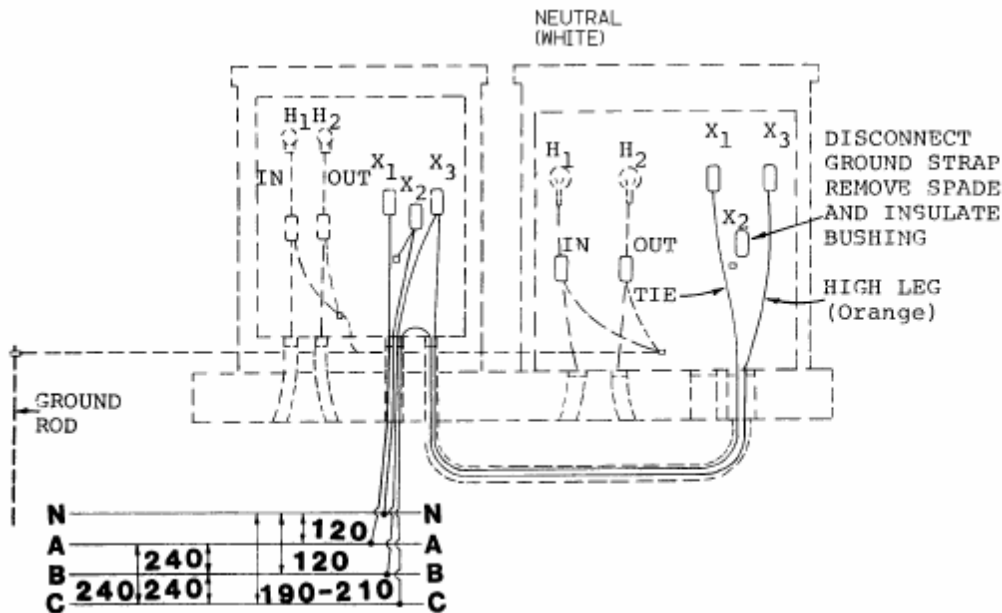
THREE PHASE NETWORK 13.2KV PRIMARY



THREE PHASE SUBMERSIBLE NETWORK

PLATE	ITEM	QTY	DESCRIPTION
UWGNT*500 / 216	TRANS001	1	TRANSFORMER, SUBMERSIBLE 500KVA
	PROTR001	1	PROTECTOR, 216Y / 125V 1875A SUBMERSIBLE
	ANCKY002	1	CONCRETE POLE KEY
	ADPSM001	3	MOLE ADAPTER, 1-1/2 TO 3 INCH
UWGNT*750 / 216	TRANS002	1	TRANSFORMER, SUBMERSIBLE 750KVA
	PROTR002	1	PROTECTOR, 216 / 125V 2500A SUBMERSIBLE
	ANCKY002	1	CONCRETE POLE KEY

PADMOUNTED OPEN DELTA TRANSFORMER CONFIGURATION



FACING TRANSFORMERS

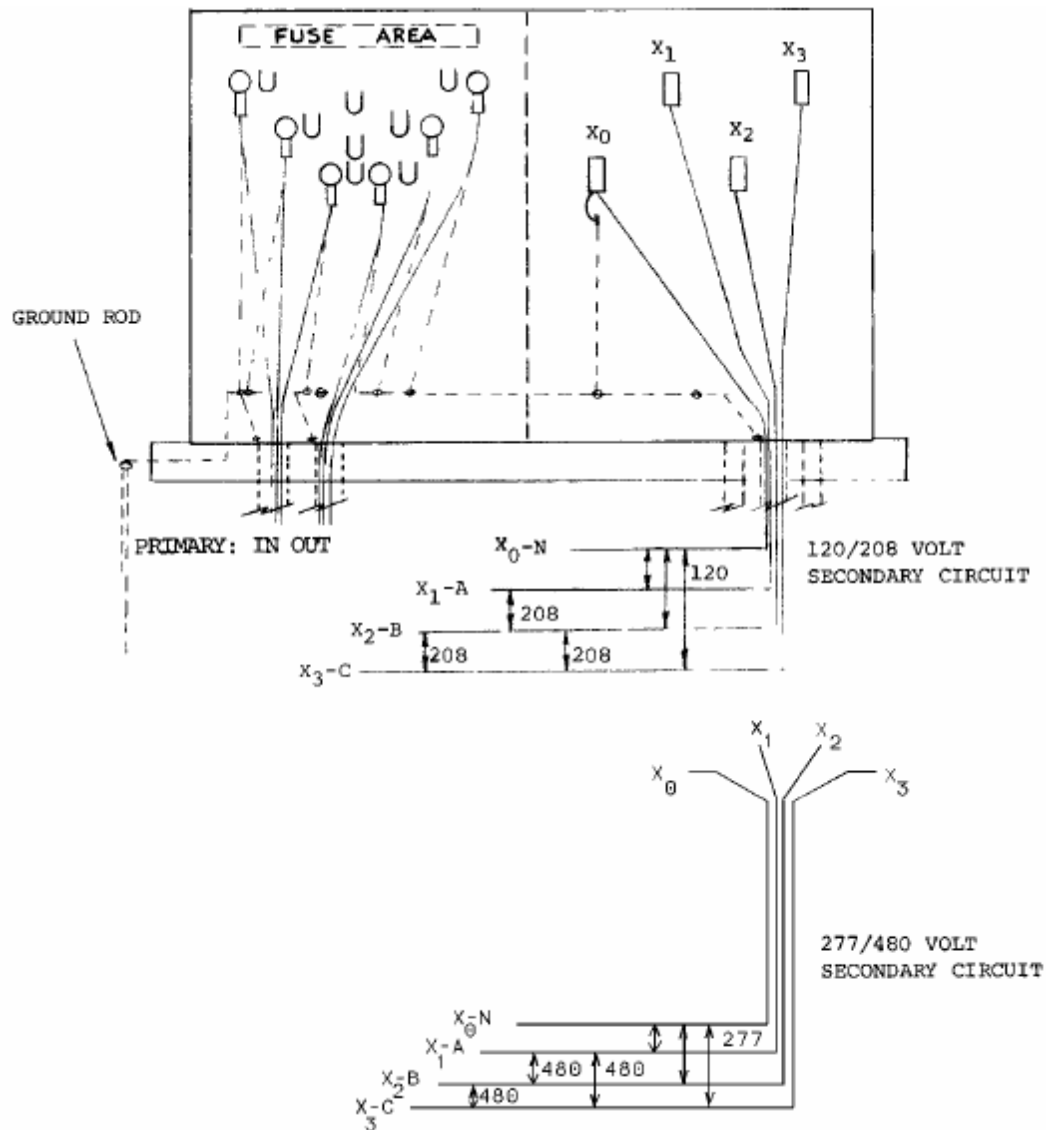
LEFT SIDE

(LIGHTING OR SINGLE PHASE TRANSFORMER)

RIGHT SIDE

(POWER OR THREE PHASE TRANSFORMER)

PADMOUNTED 3 PHASE TRANSFORMER CONFIGURATION



POLE TRANSFORMERS SET ON PAD CONFIGURATION

