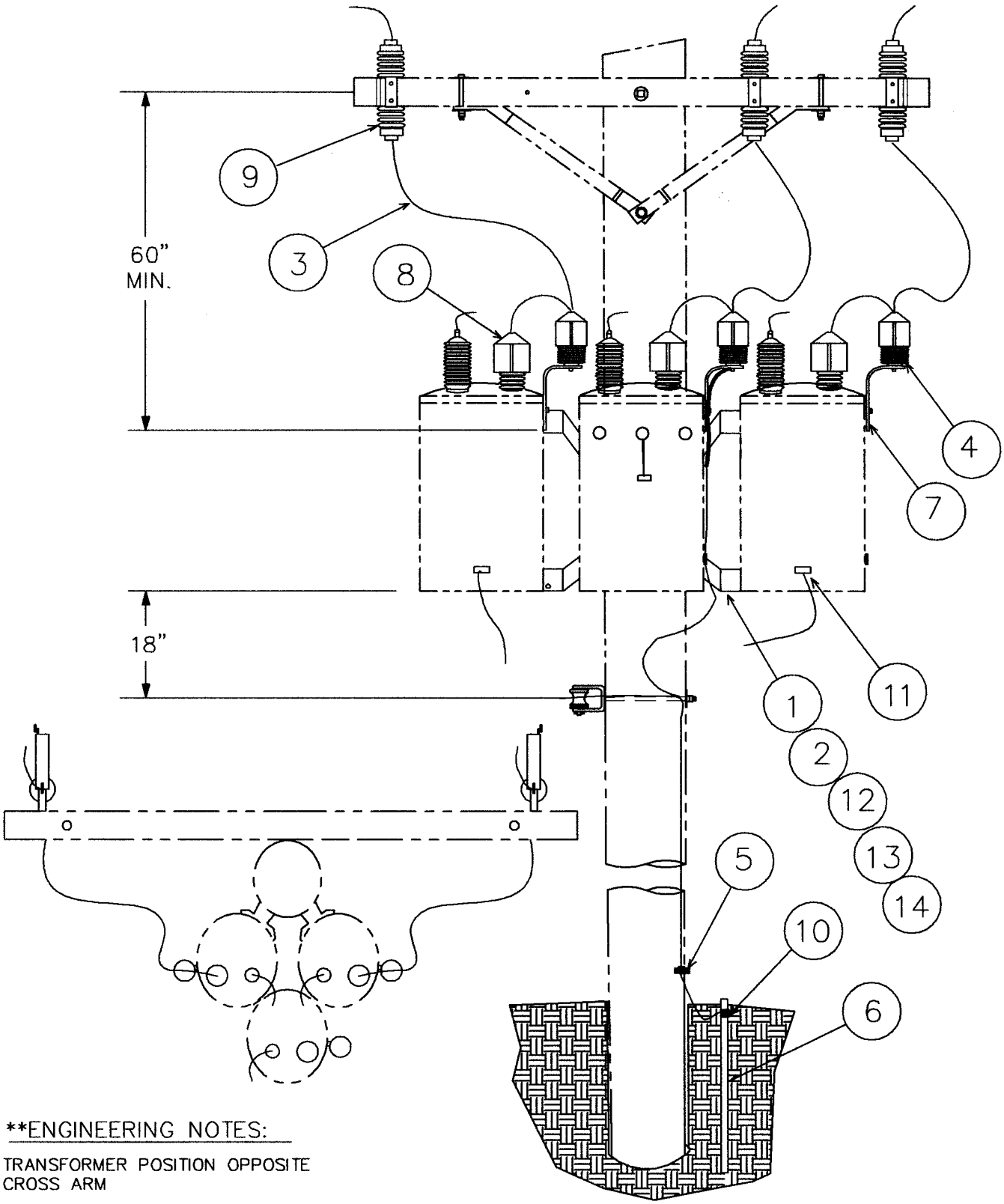


**ENGINEERING NOTES:

1. TRANSFORMER POSITION OPPOSITE CROSS ARM

DRAWN BY:	DATE:	APPROVED BY:
GL	7/27/04	CP
REVISED BY:	DATE:	APPROVED BY:

TITLE:

THREE TRANSFORMERS ON MULTI PHASE LINE

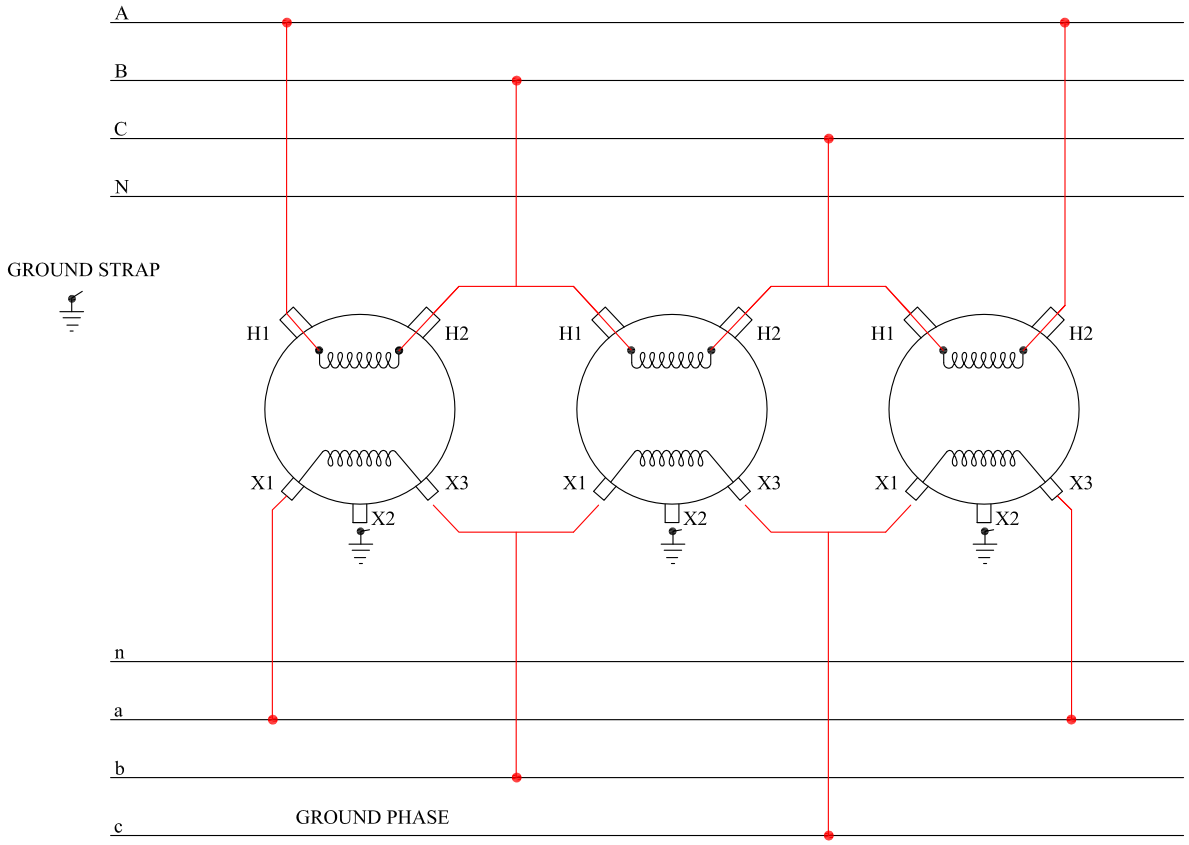
GARLAND POWER & LIGHT

STANDARD NO.:

OH-1110

PRIMARY--DELTA EACH TRANSFORMER IS ENERGIZED BY TWO PHASES FROM THE PRIMARY CIRCUIT. TWO BUSHING TRANSFORMERS RATED FOR 12470 ARE USED. THE SYSTEM GROUND IS ONLY USED FOR CASE GROUNDING AND SECONDARY GROUNDING. THE TRANSFORMERS MUST MATCH WITH REGARD TO IMPEDANCE. EXCESSIVE CIRCULATING CURRENTS MAY OVERHEAT AND BURN OUT THE TRANSFORMERS IF THEY ARE NOT THE SAME.

IMPEDANCE DIFFERENCE ALLOWED
$\pm$ 10%



SECONDARY-- DELTA THIS CONNECTION IS USED TO SUPPLY THREE-PHASE POWER LOADS. IT MAY BE 240 OR 480 VOLTS.

CAUTION: WHEN INSTALLING NEW, THE GROUNDED PHASE MUST BE MATCHED TO THE SAME GROUNDED PHASE IN THE CUSTOMERS EQUIPMENT, ALSO FOR METERING, THE GROUNDED PHASE IS LEFT OUT OF THE CT'S. PLEASE CONTACT GP&L PERSONNEL IN METERING DEPT TO HELP IN IDENTIFYING.

DRAWN BY:	DATE:	APPROVED BY:
SJ/JC	7/18/12	
REVISED BY:	DATE:	APPROVED BY:

TITLE:

DELTA—DELTA

GARLAND POWER & LIGHT

REFERENCE NO.:
OH-1110
DELTA/DELTA

Construction Standard Material

OH-1110 Delta - Delta

Title:

Rev. Date: 11/13/2011

Pic #	Description	WAREHOUSE #	Qty	UOM
1	BOLT MACHINE 3/4" X 14" W/NUT	285-08-10814	1	EA
2	WASHER SQUARE 3/4"	285-08-15315	1	EA
3	CABLE, 5 KV # 2 AWG OKOGUARD	280-42-50005	30	FT
4	ARRESTOR LIGHTING MOV TYPE 10KV, POLYMER	286-04-10010	3	EA
5	CONNECTOR SPLIT BOLT CU TO CU - #6 SOL	285-18-18615	1	EA
6	ROD GROUNDING 5/8" X 8'	285-36-15108	1	EA
7	BRACKET LIGHTNING ARRESTOR OH1	285-38-19191	3	EA
8	BIRD GUARD COVER, FARGO GS-555	285-39-24101	6	EA
9	CUTOUT 100 AMP 15 KV	286-19-10250	3	EA
10	CLAMP GROUND ROD 5/8"	285-13-16025	1	EA
11	LUG TRANSFORMER GROUNDING 8 SOL TO 2/O STR	285-49-17325	1	EA
12	MOUNT TRANSFORMER CLUSTER SIMPLEX TYPE	285-38-15165	1	EA
13	BOLT MACHINE 5/8" X 14" W/NUT	285-08-10788	1	EA
14	WASHER SPRING DOUBLE COIL 5/8"	285-08-85430	1	EA
15				
16				
17				
18				
19				
20				

Garland Power & Light

OH-1110 Delta - Delta