

NOTES:

1. ADDITIONAL GROUND CONDUCTOR REQUIRED IF CABINETS ARE SEPARATE.
2. ALL EQUIPMENT GROUNDING CONDUCTOR MATING SURFACES SHALL BE CLEANED OF ALL DIRT AND DEBRIS TO THE BARE METAL.
3. IF THE FURNACE SUPPORT ARM IS WELDED TO THE CHAMBER DOOR, THE FURNACE GROUND AND THE DOOR GROUND SHALL BE GROUNDED AT THE SAME POINT.
4. ALL ELECTRICAL EQUIPMENT MUST BE GROUNDED.
5. ALL EQUIPMENT AS REQUIRED. ITEMS SHOWN MAY NOT BE REQUIRED.

PROPER EQUIPMENT GROUNDING:

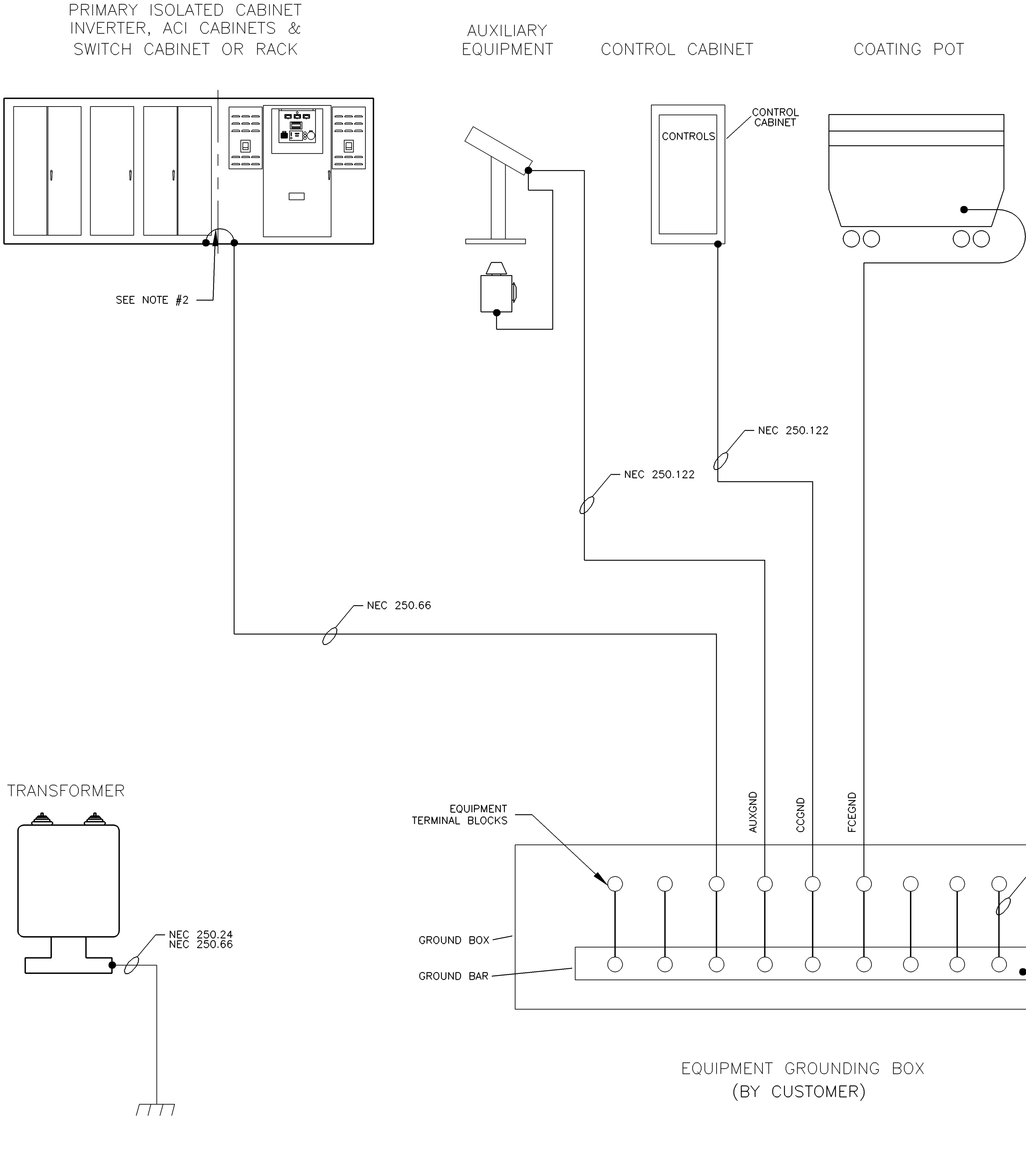
- A. REFERENCE NEC 2005
- B. ALL CABLES SIZED SHALL BE COPPER INSULATED CABLE.
- C. ALL GROUND CABLES TO HAVE THERMO-PLASTIC COVERING.
- D. ALL GROUND CONNECTIONS SHALL BE WITH LUGS AND PROPERLY LABELED WITH TAGS.
- E. ALL WIRES SMALLER THAN #6 AWG REQUIRE PROTECTION PER NEC 250-64 (b)
- F. METAL RACEWAY, PIPING, OR CONDUIT CANNOT SUBSTITUTE FOR EQUIPMENT GROUNDING CONDUCTOR.
- G. ON MULTIPLE UNITS THAT ARE BOLTED TOGETHER APPLY NEC ARTICLE 250.96
- H. WHERE CABINETS ARE INTERCONNECTED VIA CABLE TRAYS OR CONDUITS CARE MUST BE TAKEN NOT TO FORM LOOPS (SOURCES OF UNWANTED CURRENT).
- I. LOOPS MAY BE LOCATED BY MEASURING THE CURRENT FLOW IN THE GROUND CABLES WITH A CLAMP ON METER OR BY MEASURING THE CURRENT BETWEEN THE GROUND BAR AND THE EQUIPMENT TERMINAL BY REPLACING LINK WITH A CURRENT MEASURING DEVICE.
- J. WHEN A CIRCULATING CURRENT IS DETECTED, IT MUST BE ELIMINATED IF THE CURRENT ADVERSELY AFFECTS CONTROL CIRCUITS (APPLY NEC ARTICLE 250.96).
- K. TO ELIMINATE AN OBJECTIONABLE CURRENT SEE NEC ARTICLE 250.6 (b).
- L. THE FOLLOWING ARTICLES SHALL BE APPLIED FOR GROUNDING:

-GROUND CABLE IDENTIFICATION PER ARTICLE 250.119.

-EXPANDED METAL ENCLOSURES AROUND TRANSFORMERS OR BUS WORK PER ARTICLE 250.86.
- M. SIZE ALL MOTOR GROUNDING CONDUCTORS PER NEC 250.122.
- N. COOLING TOWER TO BE CONSIDERED GROUNDED WHEN CONNECTED TO PUMP MODULE BY HARD (METAL) PIPE.
- O. EQUIPMENT GROUNDING BOX SHOULD BE MOUNTED IN ACCESSIBLE AREA.

NOMENCLATURE:

NEC -NATIONAL ELECTRIC CODE



ATTENTION: THIS DRAWING REFLECTS A SEPARATELY DERIVED UNGROUNDED AC SYSTEM PER NEC 250.30 (B)

⚠ WARNING

FAILURE TO USE INDUCTOTHERM APPROVED COMPONENTS MAY PRESENT A SAFETY HAZARD TO PERSONNEL AND DO SERIOUS DAMAGE TO EQUIPMENT. FAILURE TO USE INDUCTOTHERM APPROVED COMPONENTS WILL VOID ALL WARRANTIES.

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B		R.HAGY	10/26/07	UPDATED GROUNDING SPECIFICATIONS	
A		R.HAGY	11/2/04	ADDED "BY CUSTOMER" TO EQUIP. GROUNDING BOX	
LTR	ZONE	BY	DATE	ENGINEER'S CHANGE NOTICE	
TOLERANCES		<div><div></div><div>INDUCTOTHERM</div></div>		RANCOCAS NEW JERSEY 08073	
UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCHES					
REFER TO		TITLE			
		RECOMMENDED EQUIPMENT GROUNDING DIAGRAM AND SPECIFICATIONS			
PROCEDURE No.					
93-1118-1		DRAFTSMAN K.S.	ENGINEER K.SARKISSIAN	DRAWING NUMBER	ECN.
				00111085	B
FOR TOLERANCE		REVIEWED BY B.ROVINS	DATE 12-07-99	SHEET 1 OF 1	CLASS C
JOB REF.	STD	USED ON DWG # PLOT SCALE: 1 = 1	SCALE: NONE		