

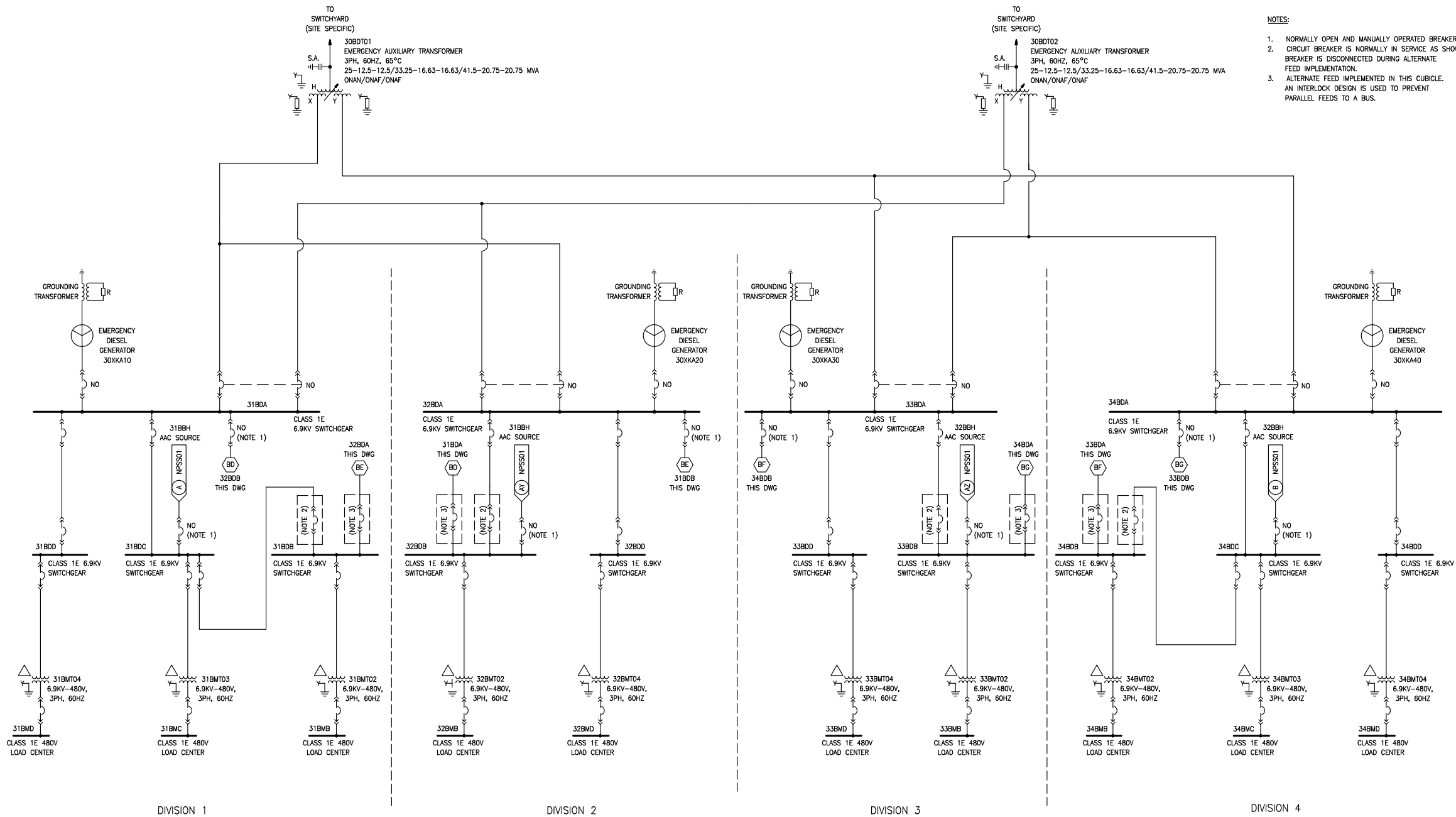
Figure 8.3-1—Electrical Single Line Drawing Legend

	ELECTRICALLY OPERATED DRAWOUT (EODO) CIRCUIT BREAKER, 3 POLE		WYE CONNECTED, GROUNDED SOLID
	LOW VOLTAGE CIRCUIT BREAKER		WYE CONNECTED, RESISTANCE GROUNDED
	CONNECTOR BETWEEN COMPONENTS ON SEPARATE DRAWINGS		DELTA CONNECTED
	CONNECTOR BETWEEN COMPONENTS ON SAME DRAWING		MOTOR LOAD
	GENERATOR, WYE CONNECTED		STATIC LOAD
	DRY TYPE TRANSFORMER		WYE CONNECTED, HIGH RESISTANCE GROUNDING THROUGH NEUTRAL DISTRIBUTION TRANSFORMER.
	VOLTAGE REGULATING TRANSFORMER		AC TO DC CONVERTER
	OLTC TRANSFORMER ONAN/ONAF/ONAF (SEE NOTE 1)		DC TO DC CONVERTER
	HIGH RESISTANCE GROUNDING THROUGH NEUTRAL DISTRIBUTION TRANSFORMER		INVERTER WITH STATIC BYPASS SWITCH
	FUSED DISCONNECT SWITCH		DIODE
	BATTERY		S.A. SURGE ARRESTER

NOTE:
1. THE ONAN/ONAF/ONAF NOTATION SHOWS THAT THE TRANSFORMER HAS TWO SETS OF FANS FOR COOLING. SEE IEEE C57.12 FOR ADDITIONAL INFORMATION ON TRANSFORMER RATINGS ASSOCIATED WITH COOLING METHODS.

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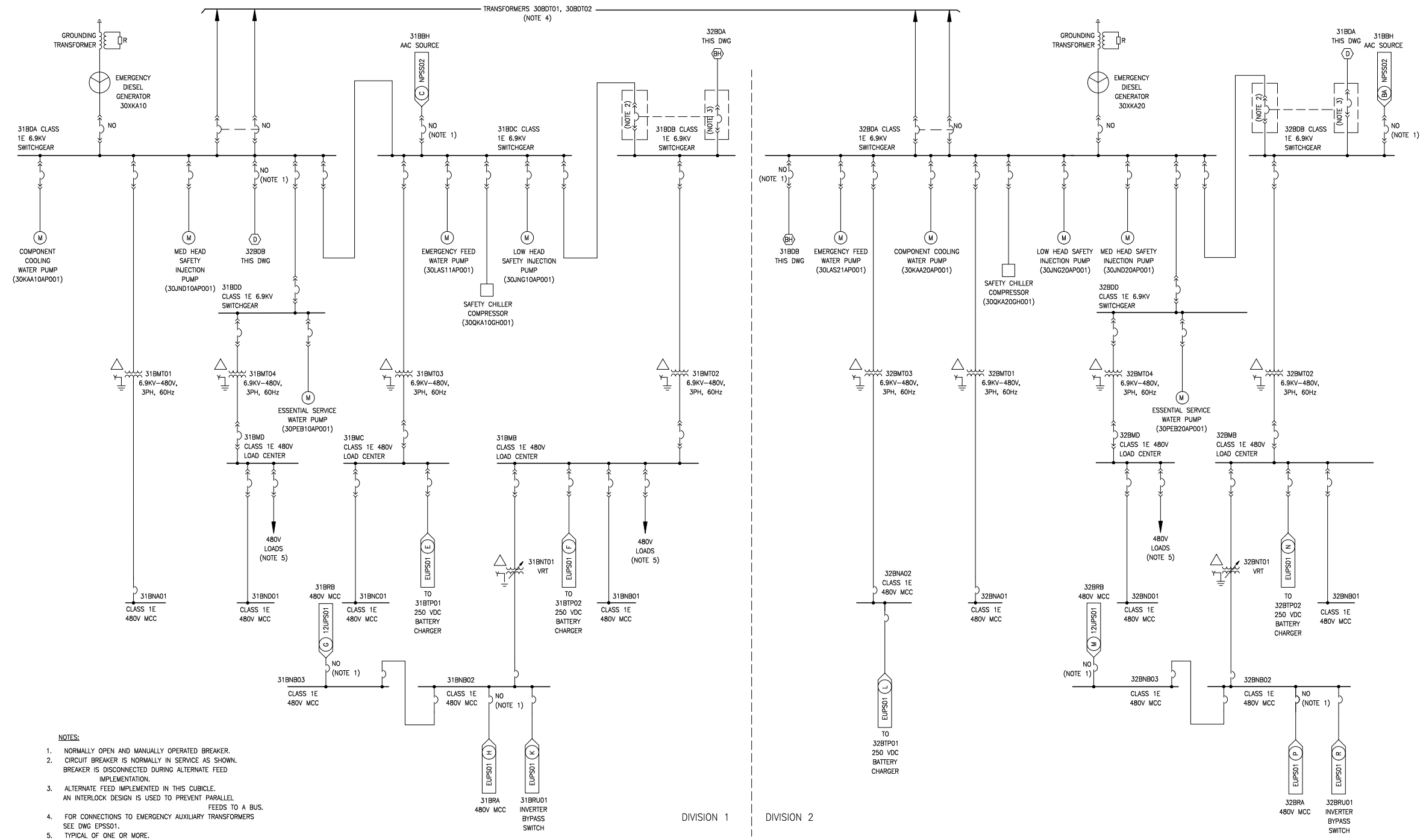
Figure 8.3-2—Emergency Power Supply System Single Line Drawing
Sheet 1 of 3



- NOTES:
1. NORMALLY OPEN AND MANUALLY OPERATED BREAKER. CIRCUIT BREAKER IS NORMALLY IN SERVICE AS SHOWN.
 2. BREAKER IS DISCONNECTED DURING ALTERNATE FEED IMPLEMENTATION.
 3. ALTERNATE FEED IMPLEMENTED IN THIS CUBICLE. AN INTERLOCK DESIGN IS USED TO PREVENT PARALLEL FEEDS TO A BUS.

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Figure 8.3-2—Emergency Power Supply System Single Line Drawing
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Figure 8.3-2—Emergency Power Supply System Single Line Drawing
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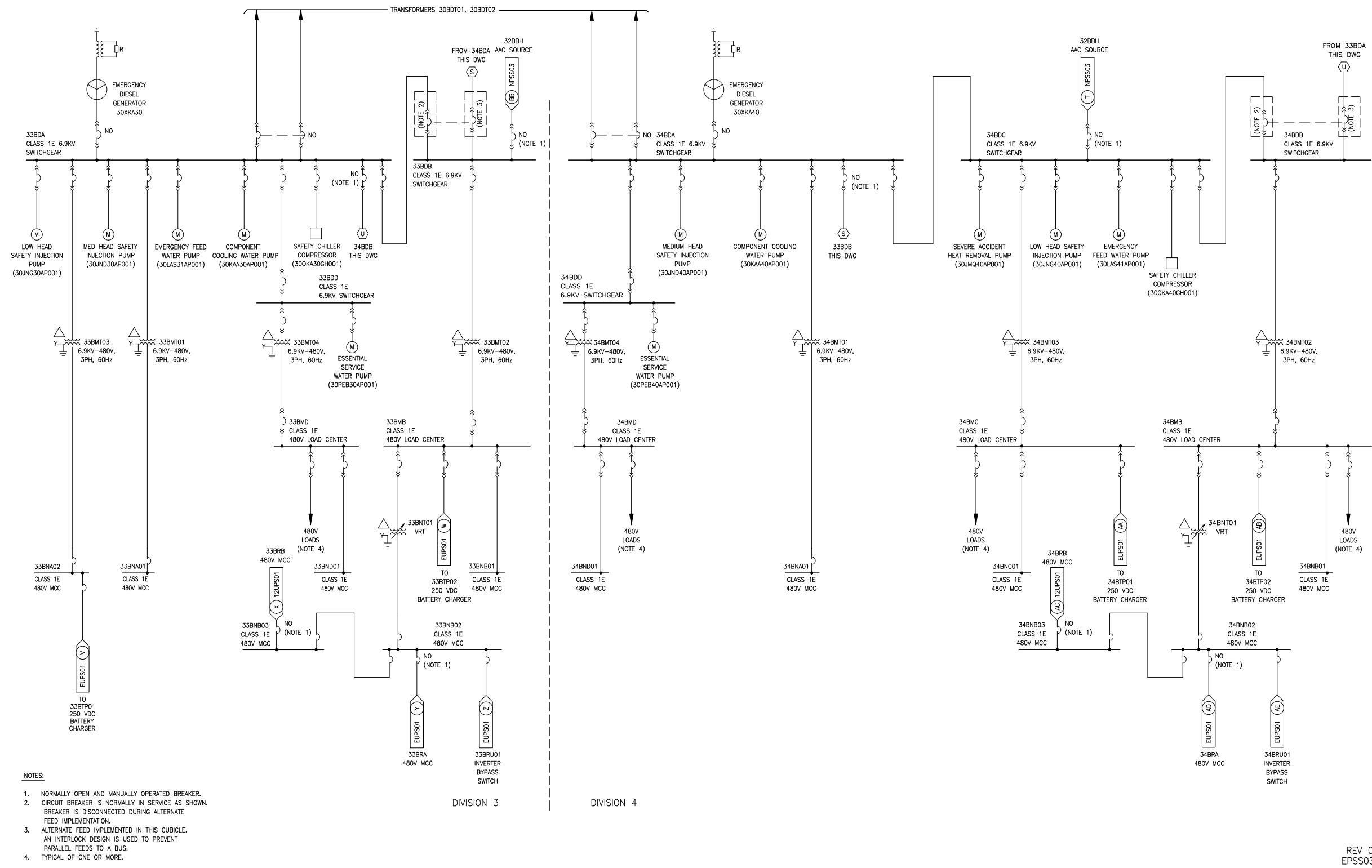
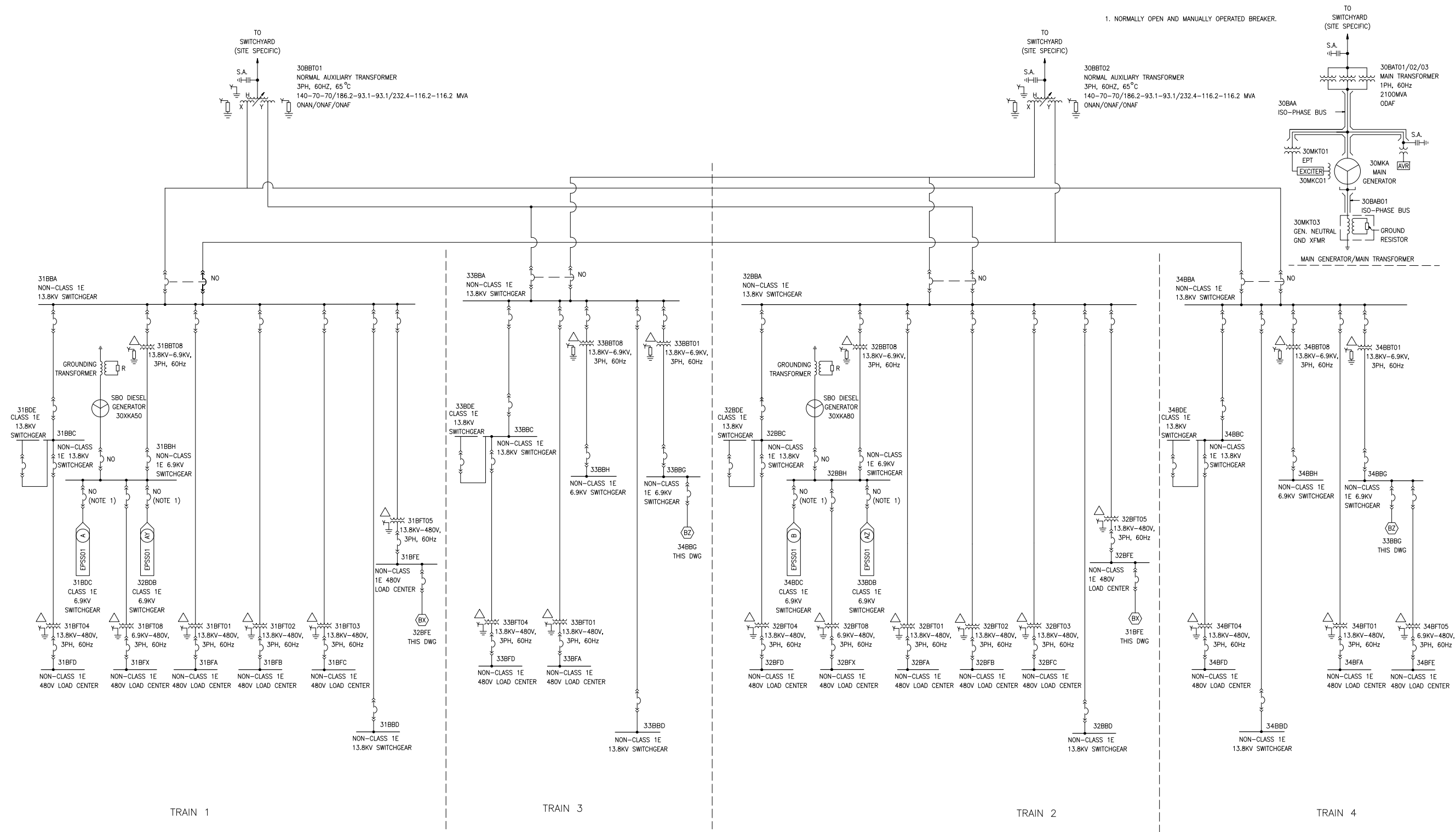
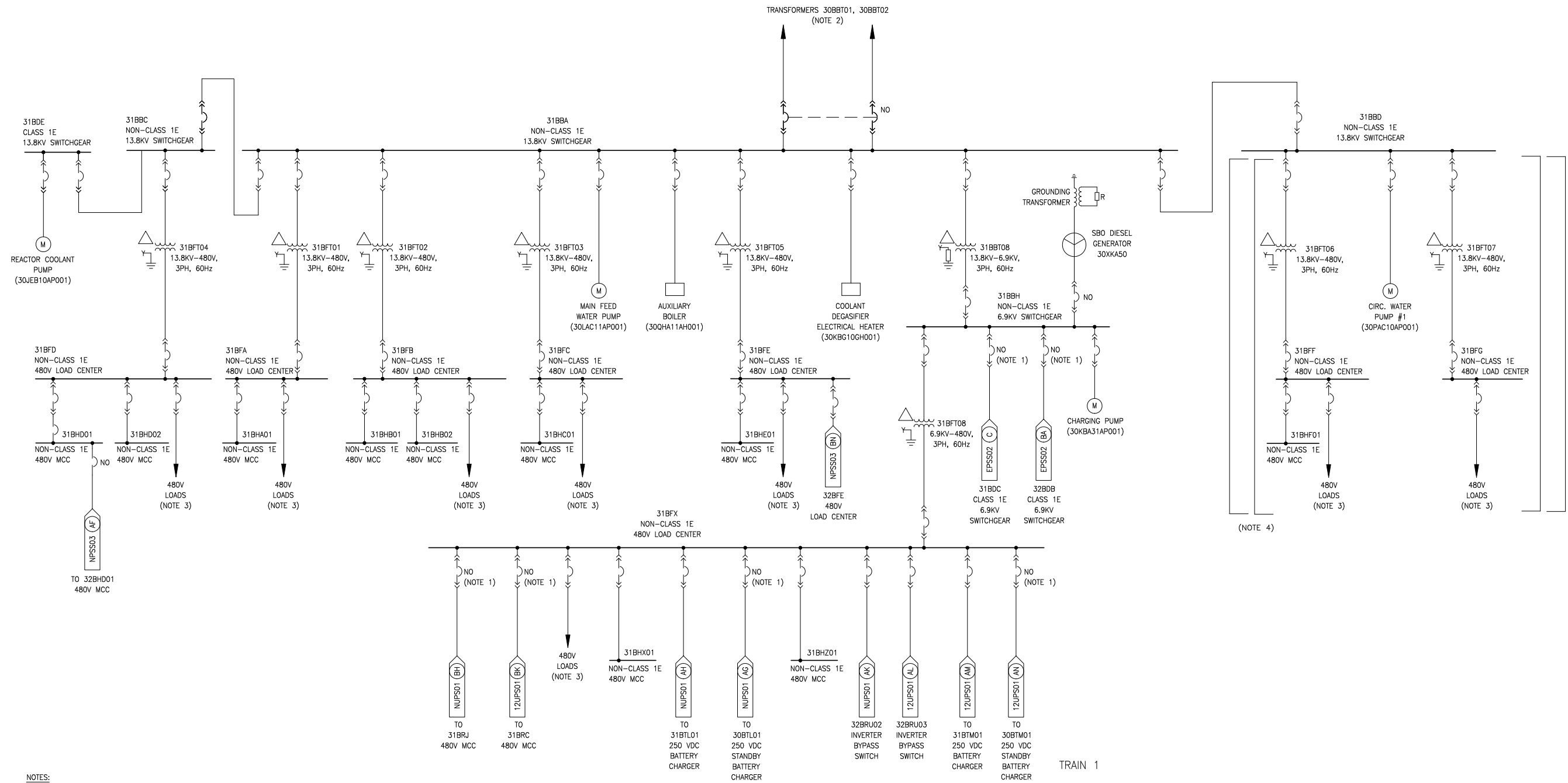


Figure 8.3-3—Normal Power Supply System Single Line Drawing
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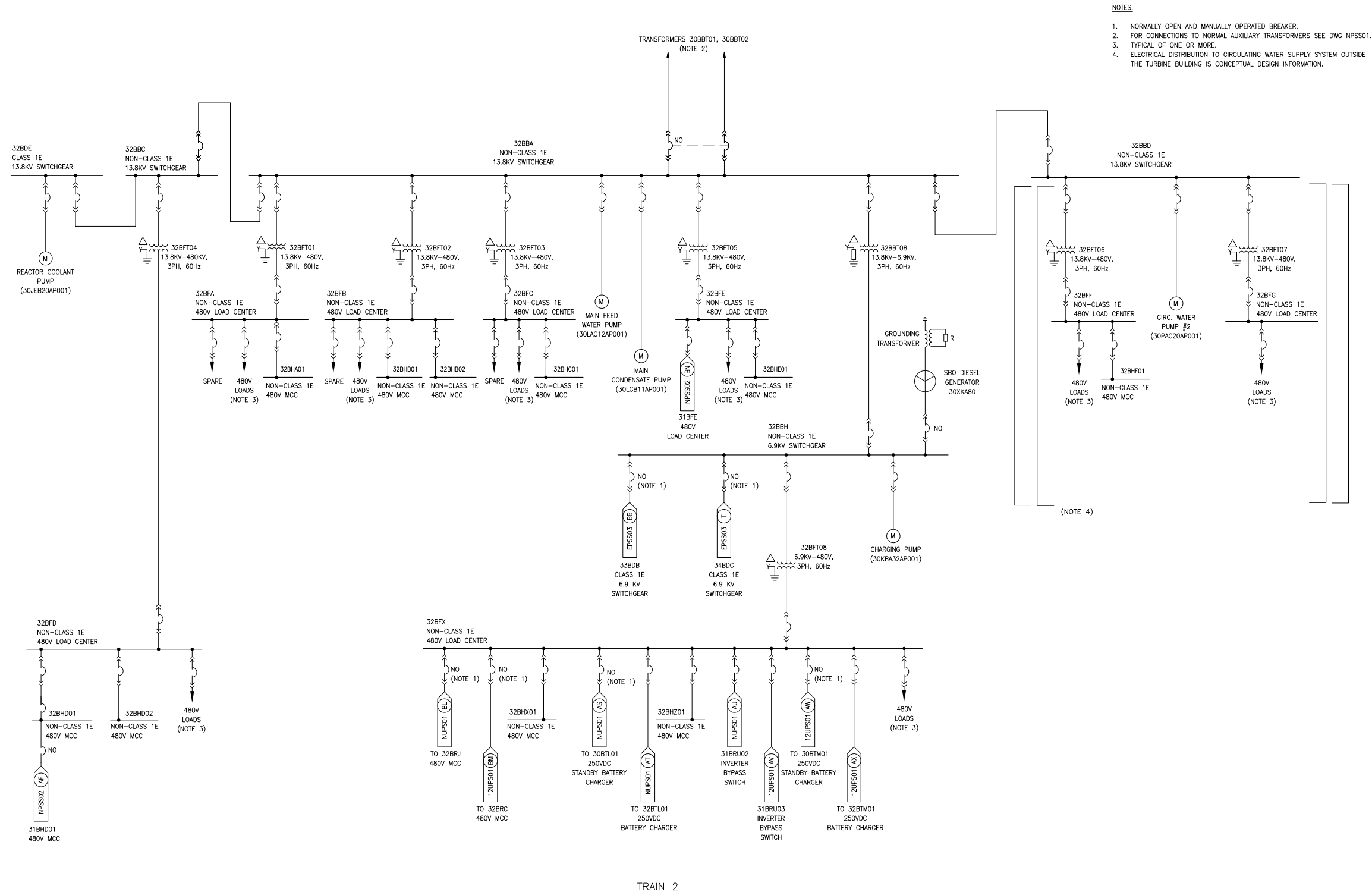
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Figure 8.3-3—Normal Power Supply System Single Line Drawing
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- NOTES:**
1. NORMALLY OPEN AND MANUALLY OPERATED BREAKER.
 2. FOR CONNECTIONS TO NORMAL AUXILIARY TRANSFORMERS SEE DWG NPSS01.
 3. TYPICAL OF ONE OR MORE.
 4. ELECTRICAL DISTRIBUTION TO CIRCULATING WATER SUPPLY SYSTEM OUTSIDE THE TURBINE BUILDING IS CONCEPTUAL DESIGN INFORMATION.

Figure 8.3-3—Normal Power Supply System Single Line Drawing
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1. NORMALLY OPEN AND MANUALLY OPERATED BREAKER.
2. FOR CONNECTIONS TO NORMAL AUXILIARY TRANSFORMERS SEE DWG NPSS01.
3. TYPICAL OF ONE OR MORE.
4. ELECTRICAL DISTRIBUTION TO CIRCULATING WATER SUPPLY SYSTEM OUTSIDE THE TURBINE BUILDING IS CONCEPTUAL DESIGN INFORMATION.

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Figure 8.3-3—Normal Power Supply System Single Line Drawing
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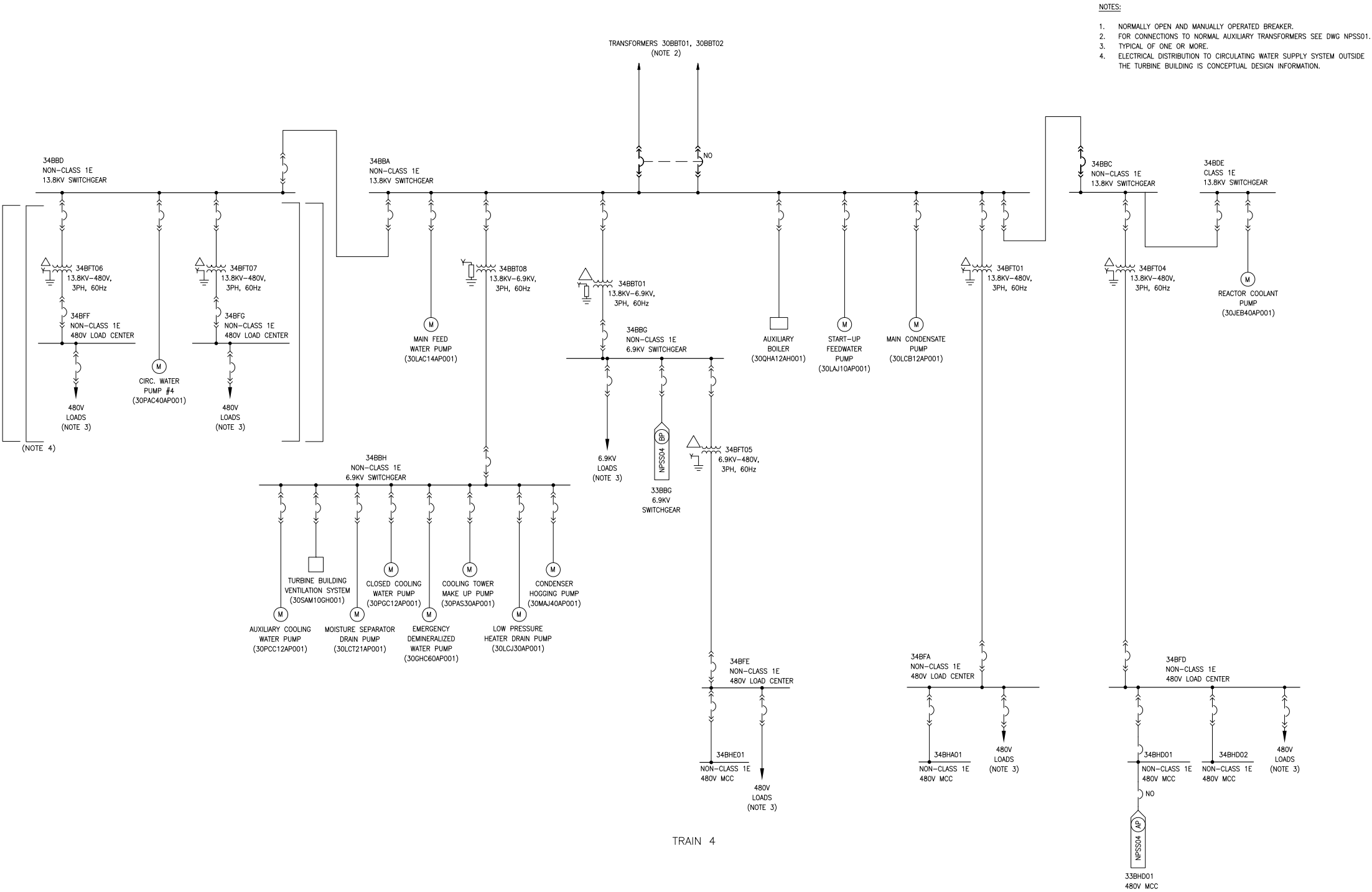
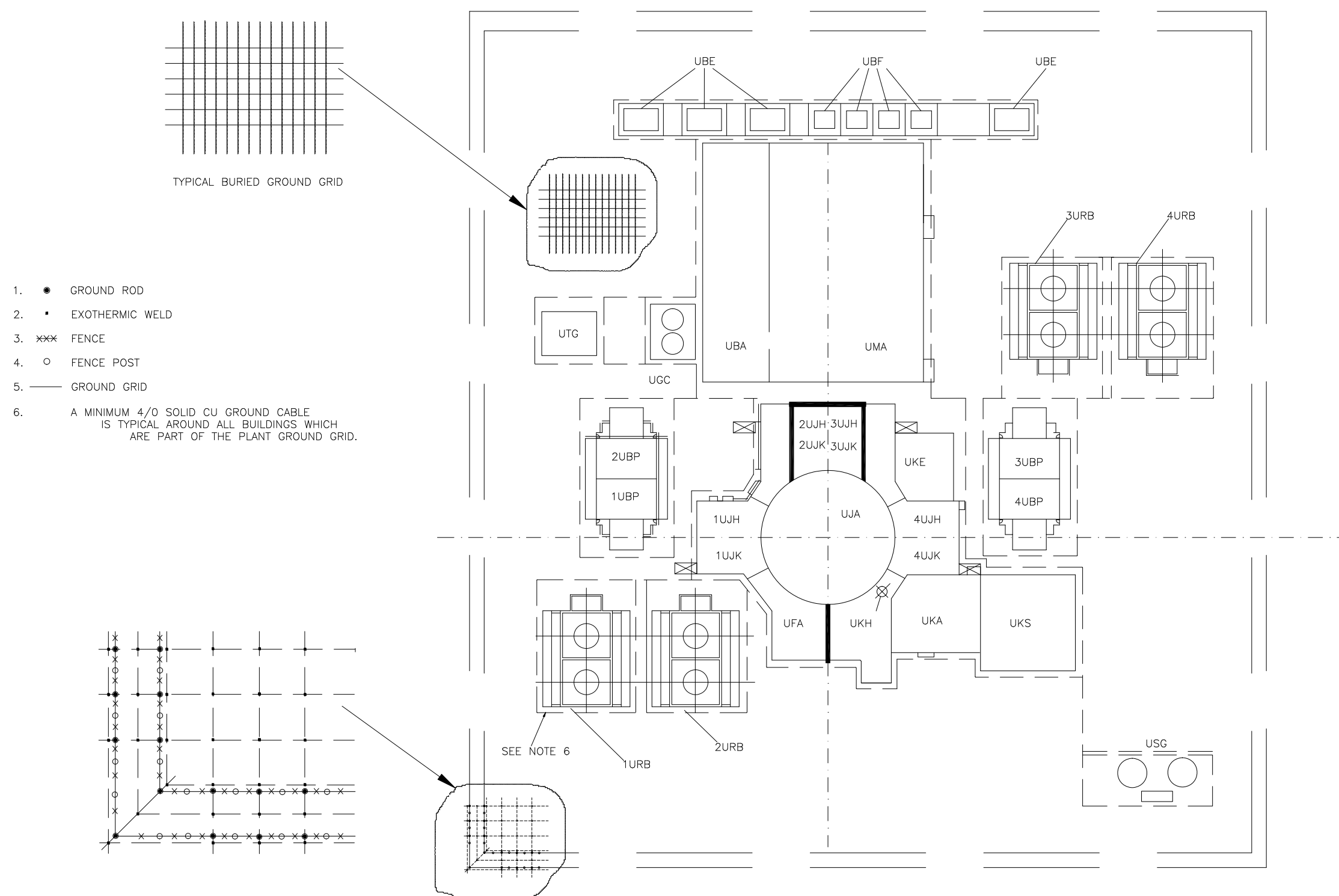
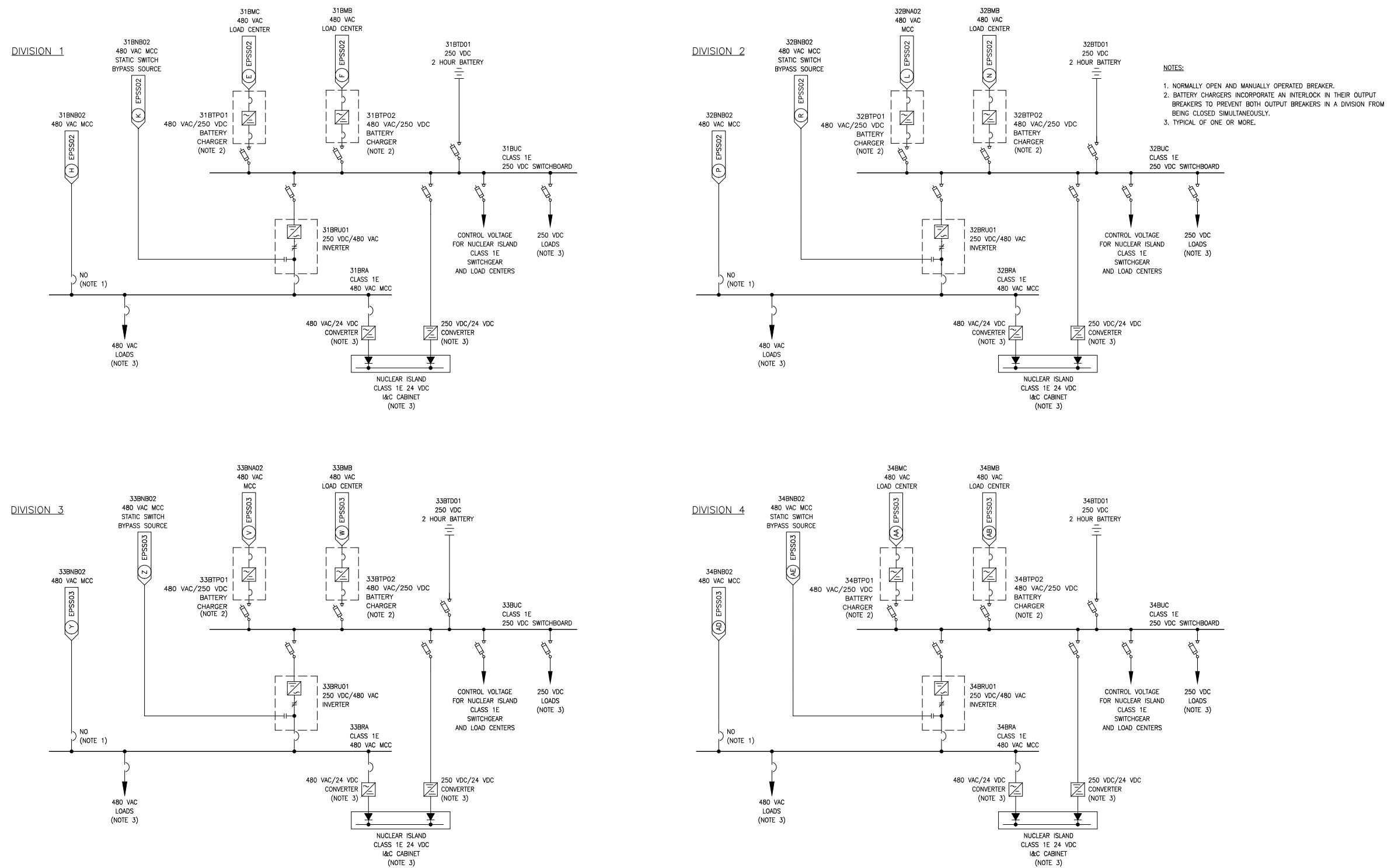


Figure 8.3-4—[[Typical Station Grounding Grid]]



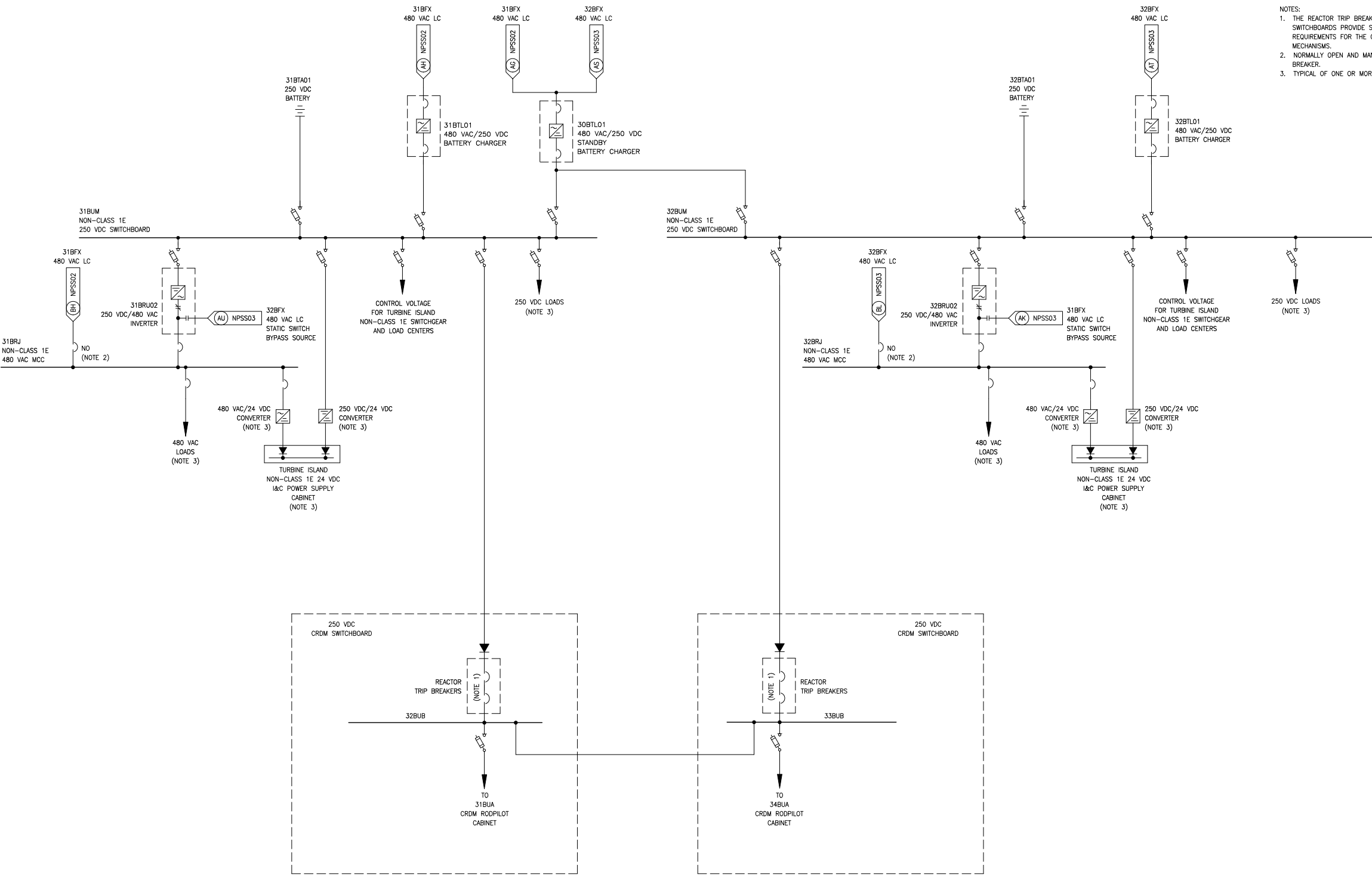
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Figure 8.3-5—Class 1E Uninterruptible Power Supply System Single Line Drawing



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Figure 8.3-7—Non-Class 1E Uninterruptible Power Supply System Single Line Drawing



- NOTES:
1. THE REACTOR TRIP BREAKERS AND 250 VDC SWITCHBOARDS PROVIDE SAFETY-RELATED TRIP REQUIREMENTS FOR THE CONTROL ROD DRIVE MECHANISMS.
 2. NORMALLY OPEN AND MANUALLY OPERATED BREAKER.
 3. TYPICAL OF ONE OR MORE.

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