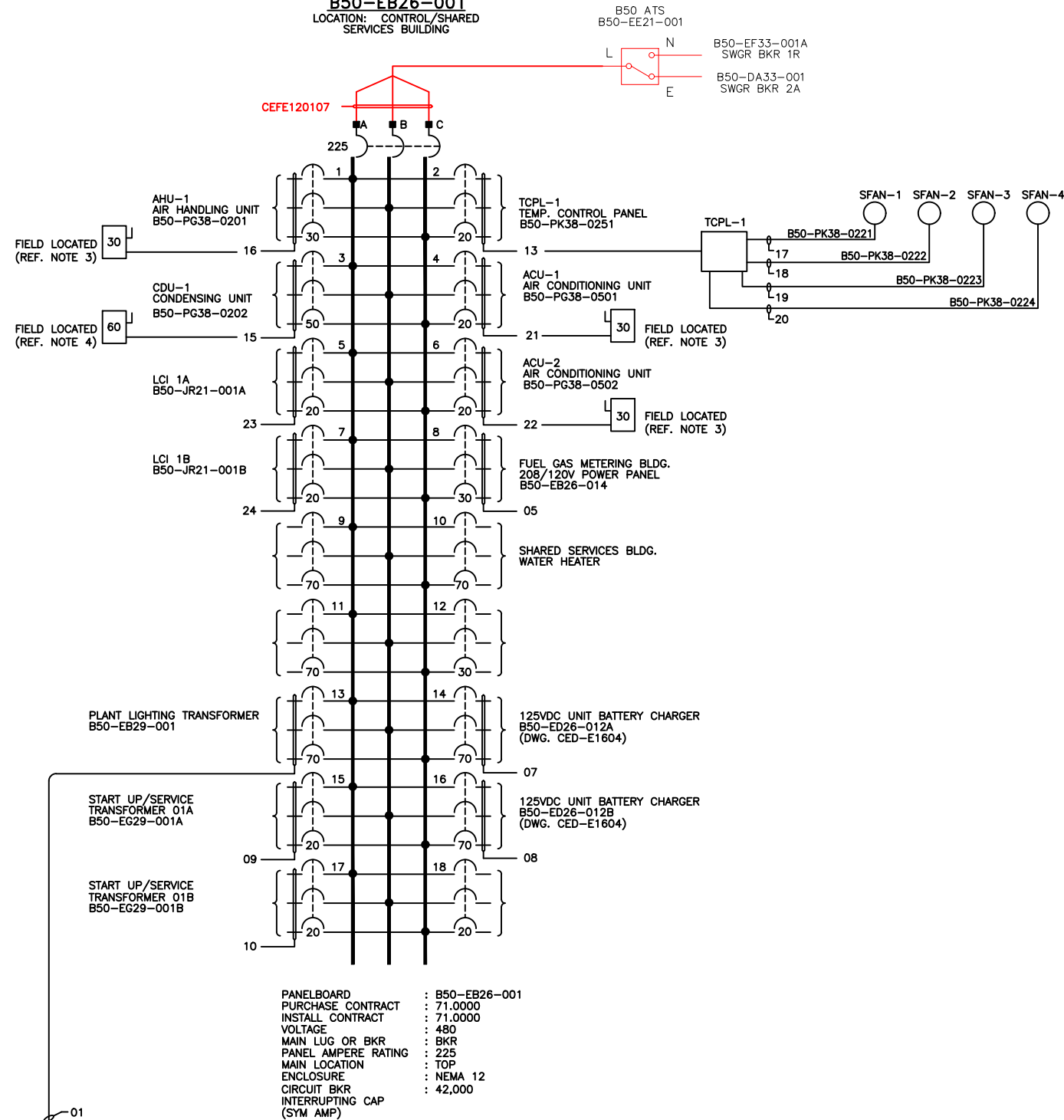




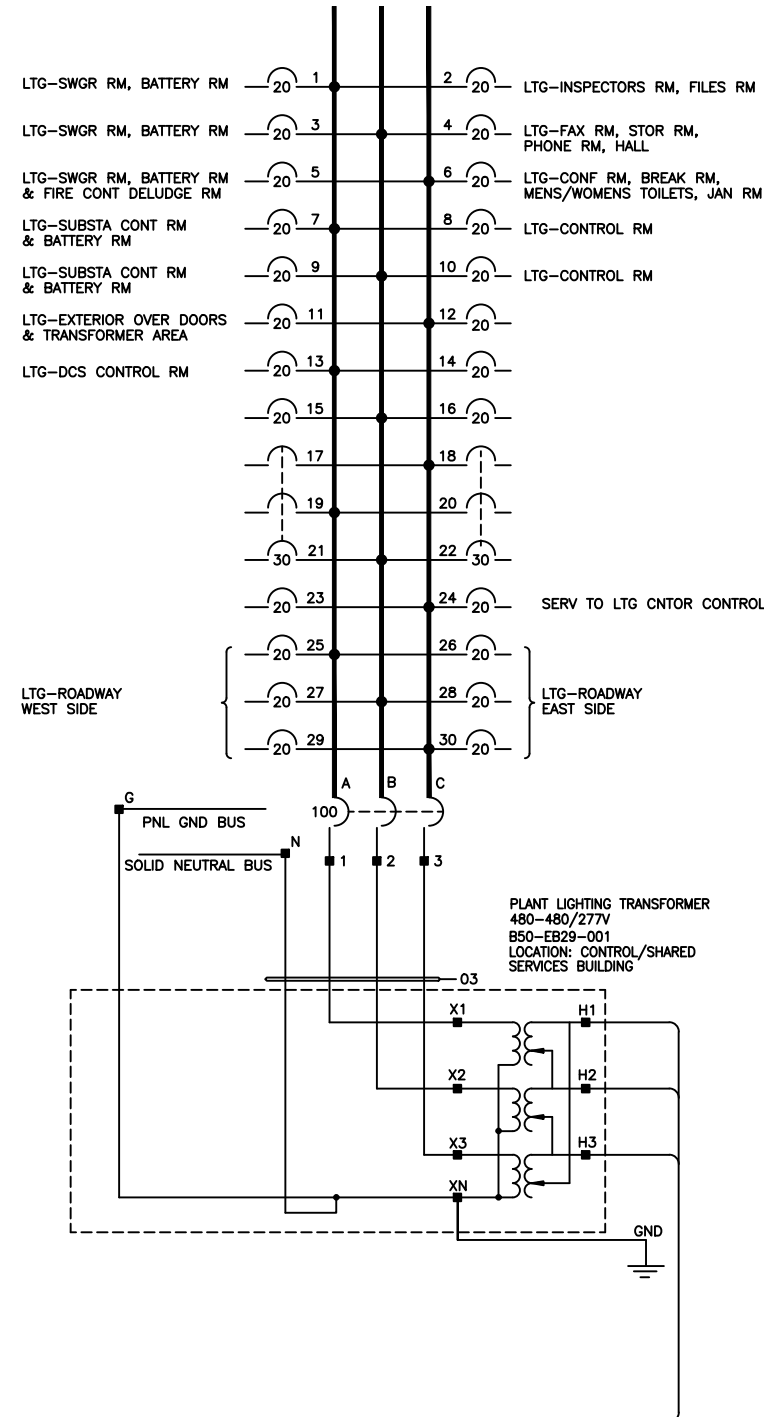




PLANT AUXILIARY  
480V POWER PANEL  
B50-EB26-001  
LOCATION: CONTROL/SHARED  
SERVICES BUILDING



PLANT LIGHTING  
480/277V POWER PANEL  
B50-EB26-002  
LOCATION: CONTROL/SHARED  
SERVICES BUILDING



PLANT LIGHTING  
480/277V POWER PANEL & TRANSFORMER

PANELBOARD	B50-EB26-002	
PURCHASE CONTRACT	: 71.1000	
INSTALL CONTRACT	: 71.0000	
VOLTAGE	: 480/277V	
MAIN LUG OR BKR	: BKR	
PANEL AMPERE RATING	: 100	
MAIN LOCATION	: BOTTOM	
ENCLOSURE	: NEMA 12	
CIRCUIT BKR	: 10,000	
INTERRUPTING CAP (SYM AMP)		
TRANSFORMER	B50-EB29-001	
PURCHASE CONTRACT	: 71.1000	
INSTALL CONTRACT	: 71.0000	
PRI VOLTAGE	: 480	
SEC VOLTAGE	: 480/277V	
SIZE	: 45 KVA	
TAPS	: +2-2.5%, -4-2.5%	
ENCLOSURE	: INDOOR	
MOUNTING	: SELF STANDING	
IMPEDANCE	: 5.3%	

NOTES:

- SEE DRAWING COE-E0001 FOR SYMBOLS.
- 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 1, 600V. OR EQUAL LOCATION BY FIELD.
- 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 3R, 600V. OR EQUAL LOCATION BY FIELD.
- 60 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 3R, 600V. OR EQUAL LOCATION BY FIELD.

REFERENCE DRAWINGS:

- B&V ORIGINAL DWG. 60903-CEB-E1601

CONTROL NUMBER: XXXXXXXX

REV No.	DRWN BY	DATE	DESCRIPTION	APPR BY
B	SB	9/26/24	ALTERED AUX PANEL MAIN FEED	JD
A	SB	9/17/24	COPY FROM VENDOR DWG	JD

DRAWING TITLE:

PANELBOARD DIAGRAMS  
480V PWR PNL  
B50-EB26-001 & B50-EB26-002

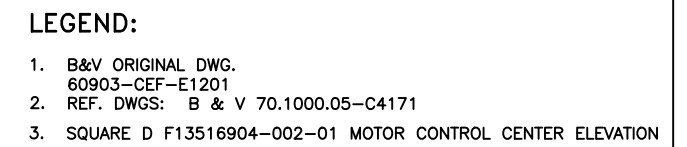


BRANDY BRANCH  
GENERATING  
STATION

CONTRACTOR NAME AND LOGO

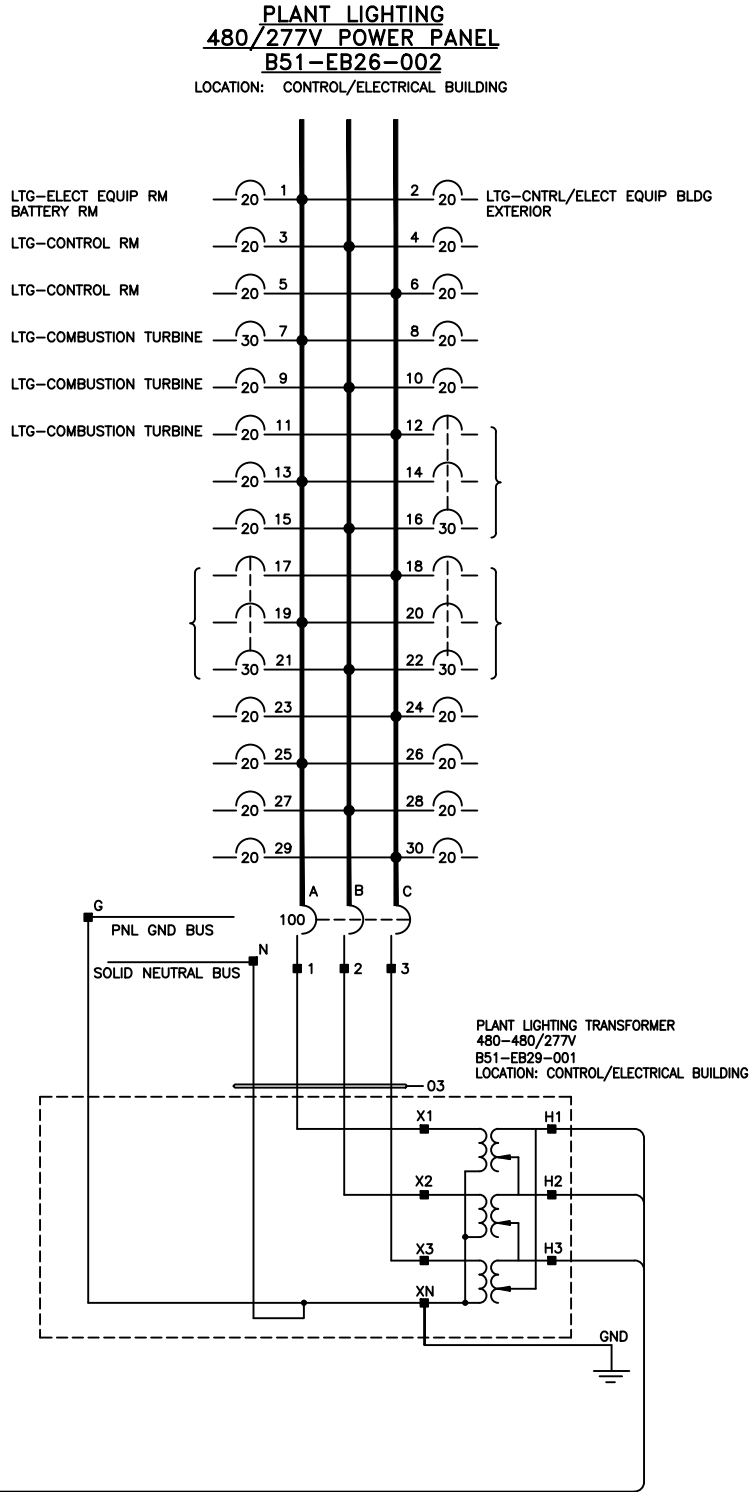
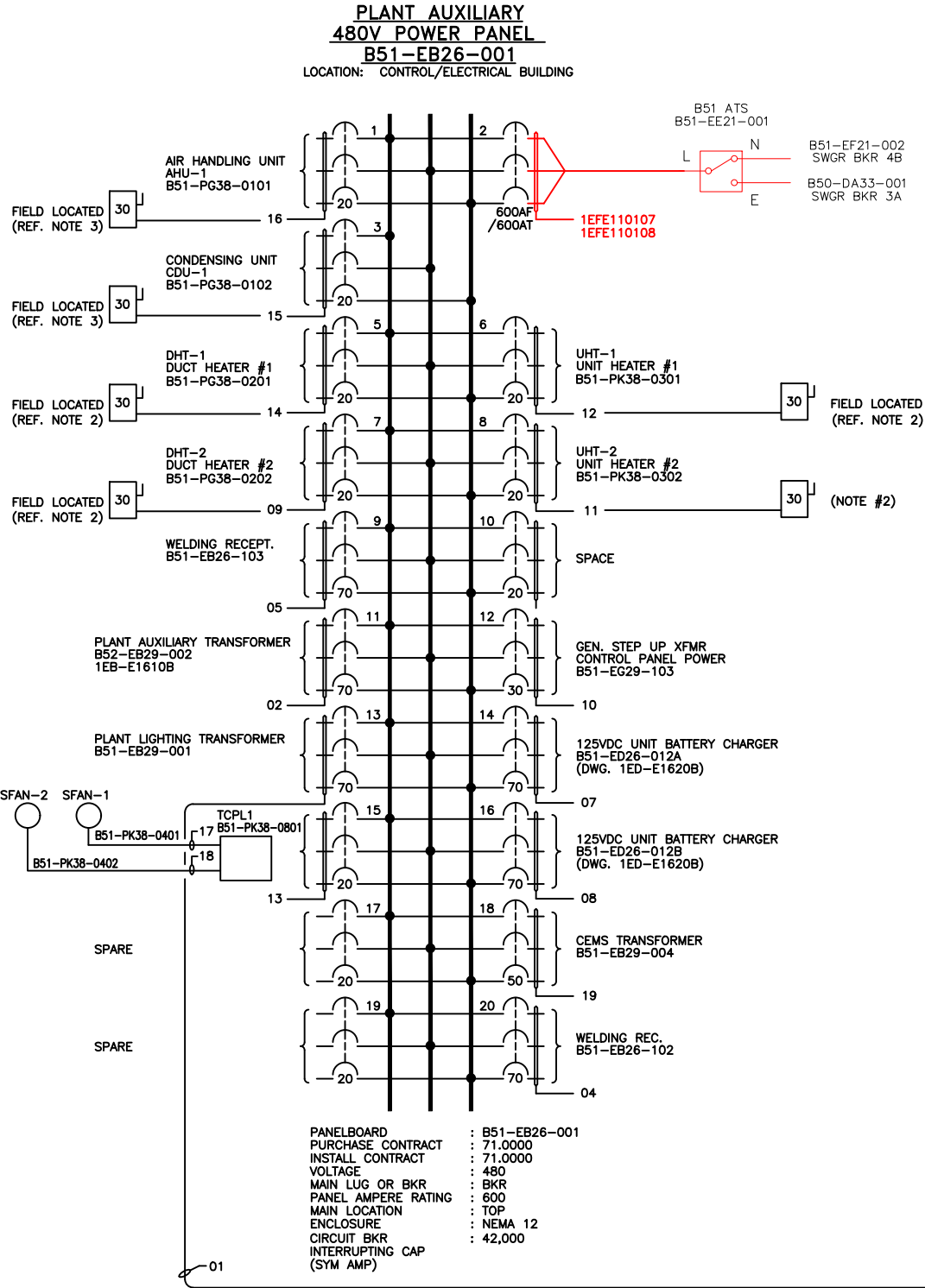
UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-





UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-





**PLANT LIGHTING  
480/277V POWER PANEL & TRANSFORMER**

PANELBOARD	B51-EB26-002	
PURCHASE CONTRACT	: 71.0000	
INSTALL CONTRACT	: 71.0000	
VOLTAGE	: 480/277V	
MAIN LUG OR BKR	: BKR	
PANEL AMPERE RATING	: 100	
MAIN LOCATION	: BOTTOM	
ENCLOSURE	: NEMA 12	
CIRCUIT BKR	: 10,000	
INTERRUPTING CAP (SYM AMP)		
TRANSFORMER	B51-EB29-001	
PURCHASE CONTRACT	: 71.0000	
INSTALL CONTRACT	: 71.0000	
PRI VOLTAGE	: 480	
SEC VOLTAGE	: 480/277V	
SIZE	: 45 KVA	
TAPS	: +2-2.5%, -4-2.5%	
ENCLOSURE	: INDOOR	
MOUNTING	: SELF STANDING	
IMPEDANCE	: 5.3%	

- NOTES:**
- SEE DRAWING COE-E0001 FOR SYMBOLS.
  - 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 1, 600V. OR EQUAL LOCATION BY FIELD.
  - 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 3R, 600V. OR EQUAL LOCATION BY FIELD.

**REFERENCE DRAWINGS:**

- B&V ORIGINAL DWG.  
60903-1EB-E1610A

CONTROL NUMBER: XXXXXX

REV No.	DRWN BY	DATE	DESCRIPTION	APPR BY
B	SB	9/26/24	ALTERED AUX PANEL MAIN FEED	JD
A	SB	9/18/24	COPY FROM VENDOR DWG	JD

DRAWING TITLE:

**PANELBOARD DIAGRAMS  
480V PWR PNL  
B51-EB26-001 & B51-EB26-002**

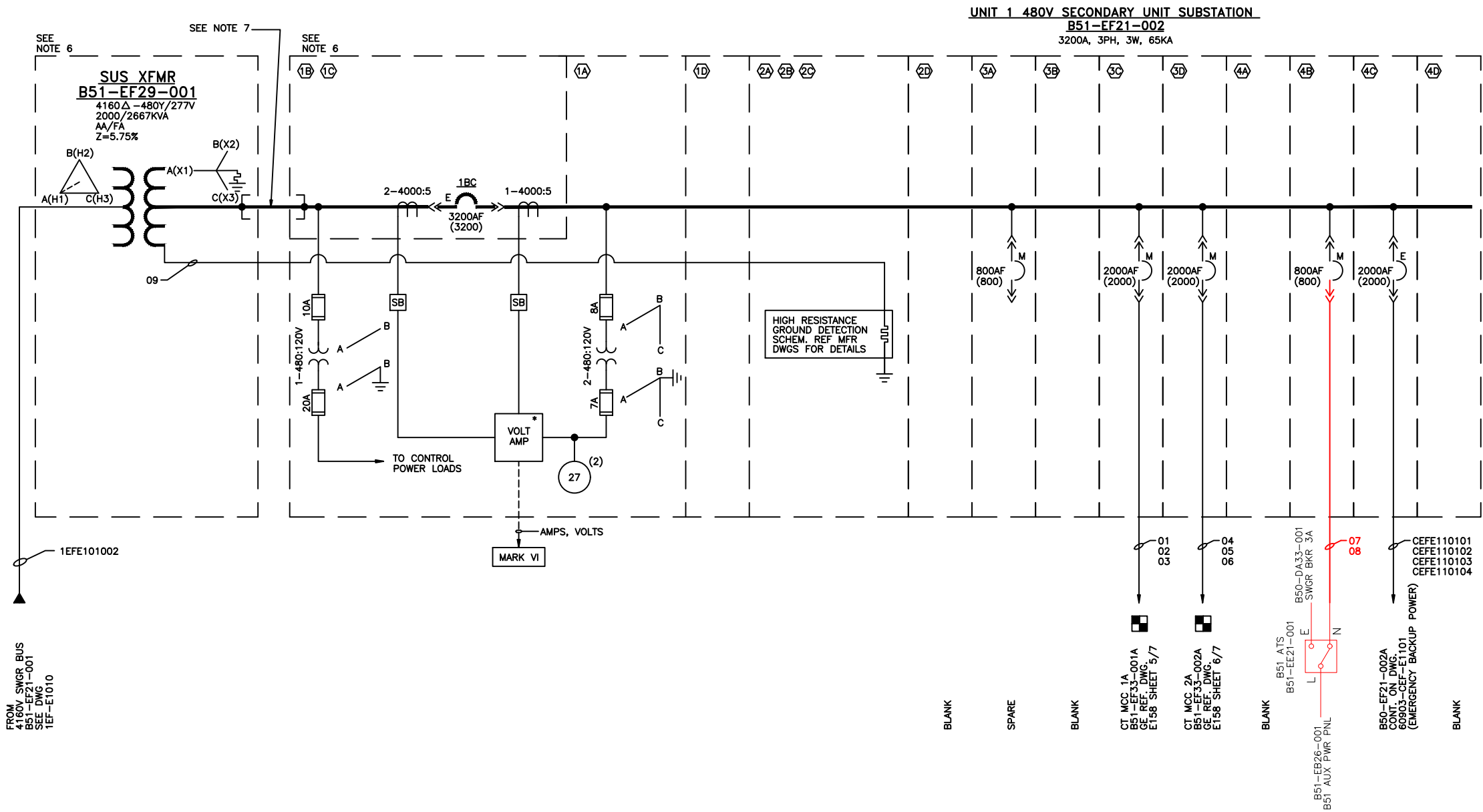


BRANDY BRANCH  
GENERATING  
STATION

CONTRACTOR NAME AND LOGO

UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-





REFERENCE DRAWINGS:

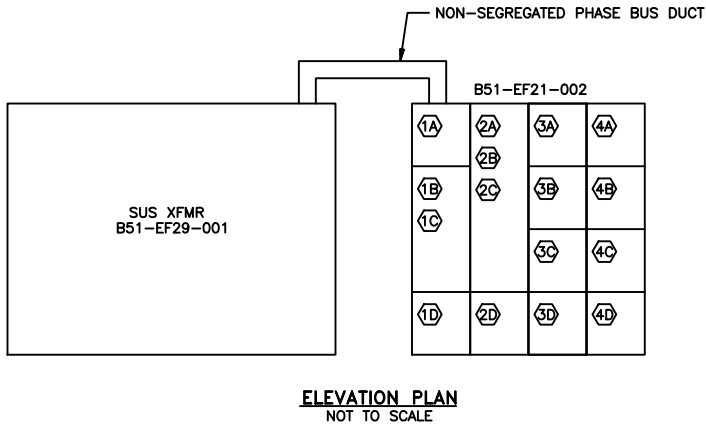
- 60903-1MA-E7101 UNIT 1 - CONTROL/ELECTRICAL BLDG.  
60903-1EF-K2206 SCHEMATICS  
60903-1EF-E1101 B&V ORIGINAL DWG.

NOTES:

- ALL CURRENT TRANSFORMERS ARE SINGLE RATIO UNLESS NOTED OTHERWISE.
- ALL BREAKERS HAVE SOLID-STATE TRIP DEVICES.
- SEE DRAWING COE-E0001 FOR SYMBOLS.
- NOT USED
- NOT USED
- PURCHASE CONTRACT 70.1000.16B4 (VENDOR: SQUARE D)
- PURCHASE CONTRACT 70.1000.16B3 (VENDOR: TECHIBUS) (NON-SEGREGATED PHASE BUS DUCT)

LEGEND:

- (X) "X"= COMPARTMENT NUMBER  
SB CURRENT XFMR SHORTING TYPE  
\* DEVICE IS POWER LOGIC CIRCUIT MONITOR 2250  
AF AMPERE FRAME RATING  
GE FURNISHED EQUIPMENT



REV No.	DRWN BY	DATE	DESCRIPTION	APPR BY
B	SB	9/26/24	ALTERED BKR 4B FEED	JD
A	SB	9/18/24	COPY FROM VENDOR DWG	JD

DRAWING TITLE:

ONE-LINE DIAGRAM  
UNIT 1 480V SUS B51-EF21-002

CONTROL NUMBER: XXXXXX



BRANDY BRANCH  
GENERATING  
STATION

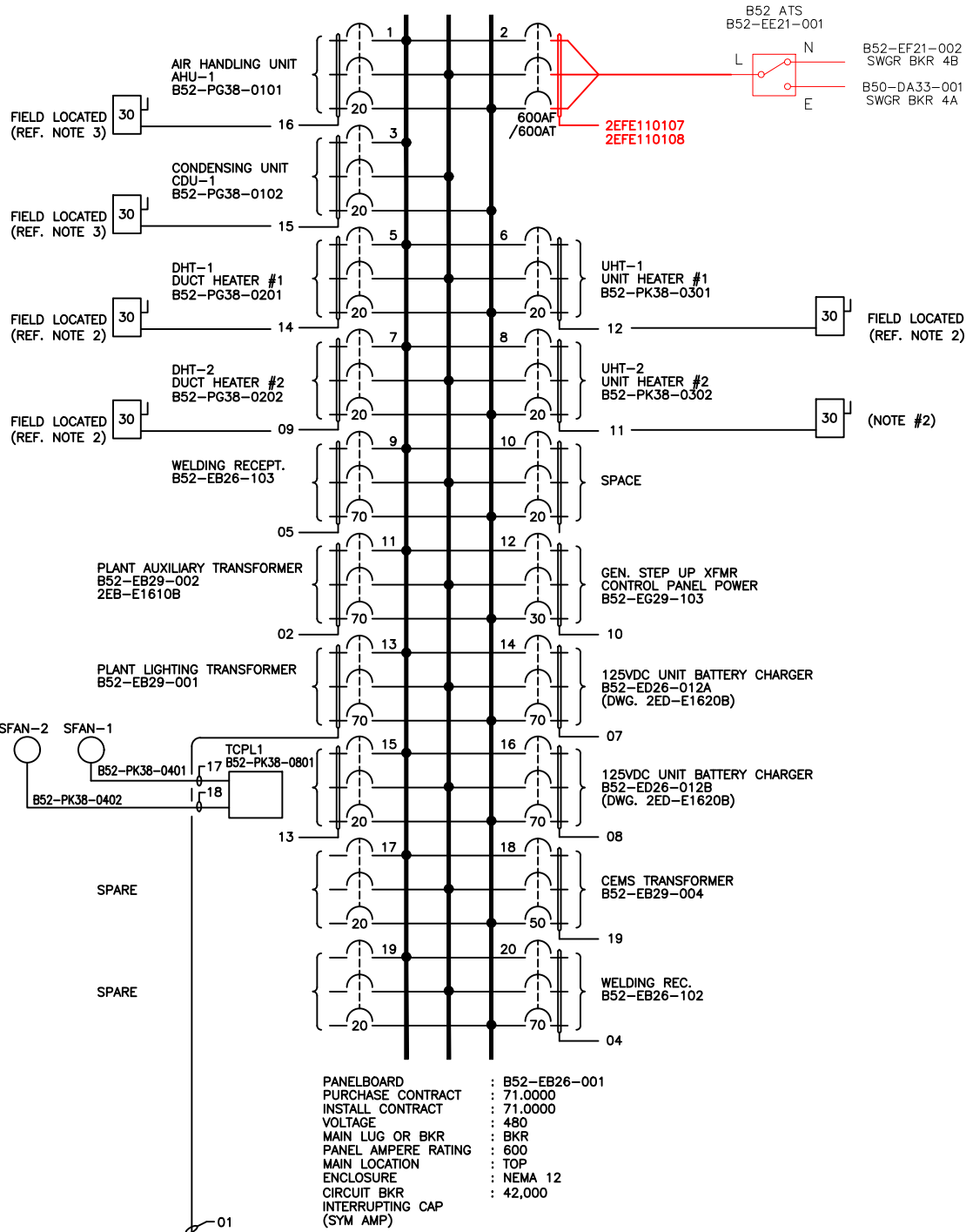
CONTRACTOR NAME AND LOGO

UNIT: -  
PD NO: -  
GEMS: -  
SCALE: -  
PWO NO: -  
DWG NO: -



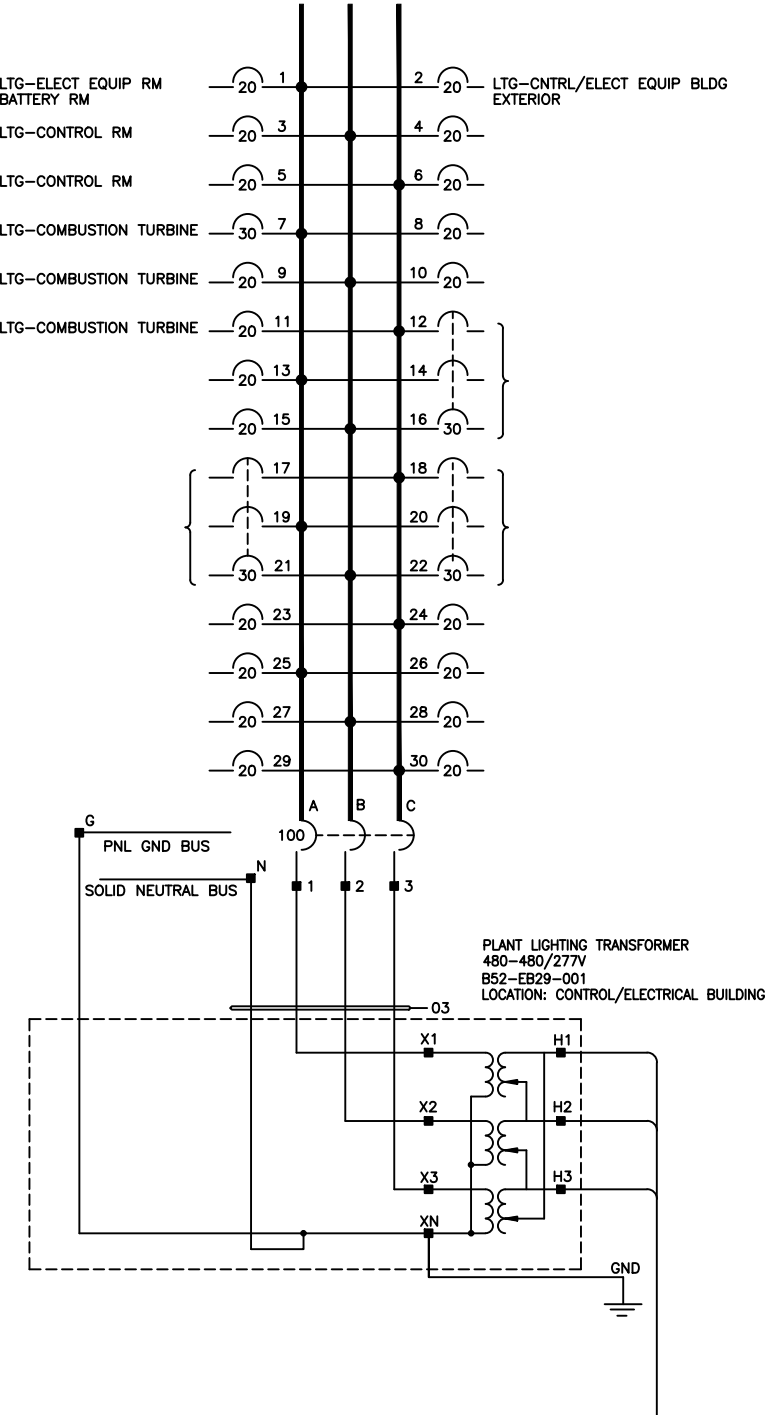
PLANT AUXILIARY  
480V POWER PANEL  
B52-EB26-001

LOCATION: CONTROL/ELECTRICAL BUILDING



PLANT LIGHTING  
480/277V POWER PANEL  
B52-EB26-002

LOCATION: CONTROL/ELECTRICAL BUILDING



PLANT LIGHTING  
480/277V POWER PANEL & TRANSFORMER

PANELBOARD	B52-EB26-002	
	PURCHASE CONTRACT	: 71.1000
	INSTALL CONTRACT	: 71.0000
	VOLTAGE	: 480/277V
	MAIN LUG OR BKR	: BKR
TRANSFORMER	PURCHASE CONTRACT	: 71.1000
	INSTALL CONTRACT	: 71.1000
	PRI VOLTAGE	: 480
	SEC VOLTAGE	: 480/277V
	SIZE	: 45 KVA
NOTES	TAPS	: +2-2.5%, -4-2.5%
	ENCLOSURE	: INDOOR
	MOUNTING	: SELF STANDING
	IMPEDANCE	: 5.3%

- NOTES:
- SEE DRAWING COE-E0001 FOR SYMBOLS.
  - 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 1, 600V. OR EQUAL LOCATION BY FIELD.
  - 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 3R, 600V. OR EQUAL LOCATION BY FIELD.

REFERENCE DRAWINGS:

- B&V ORIGINAL DWG. 60903-2EB-E1610A

CONTROL NUMBER: XXXXXX

REV No.	DRWN BY	DATE	DESCRIPTION	APPR BY
B	SB	9/26/24	ALTERED AUX PANEL MAIN FEED	JD
A	SB	9/18/24	COPY FROM VENDOR DWG	JD

DRAWING TITLE:

PANELBOARD DIAGRAMS  
480V PWR PNL  
B52-EB26-001 & B52-EB26-002

	BRANDY BRANCH GENERATING STATION	UNIT:	-
		PD NO:	-
CONTRACTOR NAME AND LOGO		GEMS:	-
		SCALE:	-
		PWO NO:	-
		DWG NO:	-

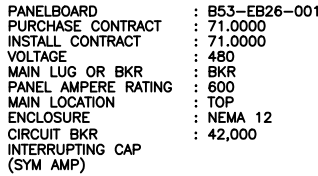






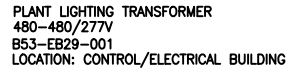
LOCATION: CONTROL/ELECTRICAL BUILDING

LOCATION: CONTROL/ELECTRICAL BUILDING



LOCATION: CONTROL/ELECTRICAL BUILDING

LOCATION: CONTROL/ELECTRICAL BUILDING



PANELBOARD	B53-EB26-002	
	PURCHASE CONTRACT	: 71.1000
	INSTALL CONTRACT	: 71.0000
	VOLTAGE	: 480/277V
	MAIN LUG OR BKR	: BKR
	PANEL AMPERE RATING	: 100
	MAIN LOCATION	: BOTTOM
	ENCLOSURE	: NEMA 12
	CIRCUIT BKR	: 10,000
	INTERRUPTING CAP (SYM AMP)	

TRANSFORMER	B53-EB29-001	
	PURCHASE CONTRACT	: 71.1000
	INSTALL CONTRACT	: 71.1000
	PRI VOLTAGE	: 480
	SEC VOLTAGE	: 480/277V
	SIZE	: 45 KVA
	TAPS	: +2-2.5%, -4-2.5%
	ENCLOSURE	: INDOOR
	MOUNTING	: SELF STANDING
	IMPEDANCE	: 5.3%

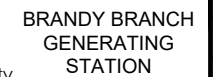
1. SEE DRAWING COE-E0001 FOR SYMBOLS.
2. 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 1, 600V. OR EQUAL LOCATION BY FIELD.
3. 30 AMP NON-FUSED DISCONNECT, SQUARE "D" NEMA 3R, 600V. OR EQUAL LOCATION BY FIELD.

1. B&V ORIGINAL DWG.  
60903-3EB-E1610A

XXXXXX

DRAWING TITLE:

B53-EB26-001 & B53-EB26-002



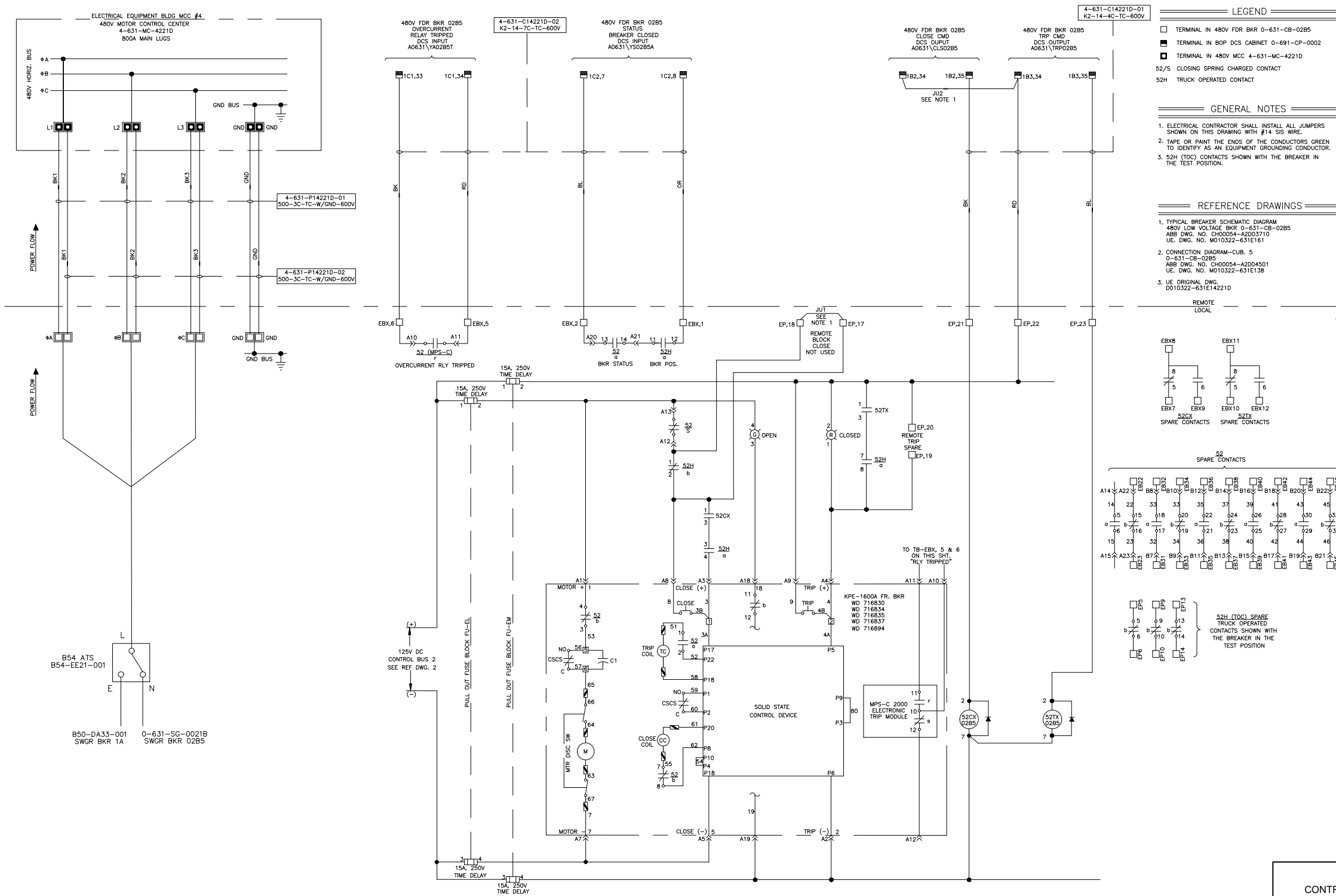
UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-

UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-









CONTROL NUMBER: XXXXXXX

REV NO.	DRWN BY	DATE	DESCRIPTION	APPR BY
B	SB	9/26/24	ALTERED MAIN FEED	JD
A	SB	9/17/24	COPY FROM VENDOR DWG	JD

DRAWING TITLE:  
**LOW VOLTAGE POWER SYSTEM  
BREAKER CONTROL SCHEMATIC  
MCC 4-631-MC-4221D, FDR BKR 02B5**

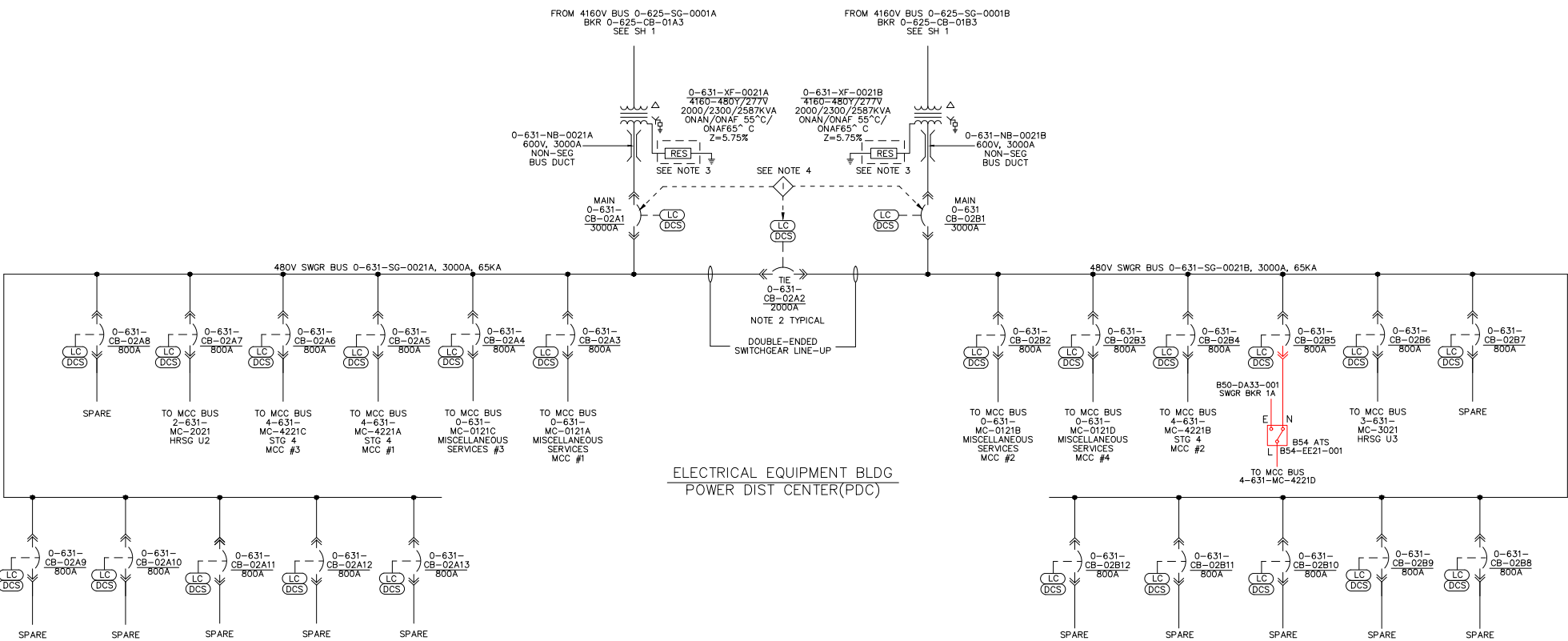


BRANDY BRANCH  
GENERATING  
STATION

CONTRACTOR NAME AND LOGO

UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-





**LEGEND**

SEE REFERENCE DRAWING 1 FOR LEGEND

DCS

 - INDICATES DCS CONTROL.

LC

 - INDICATES LOCAL CONTROL (SEE NOTE 5 & 6).

I

 - INDICATES ELECTRICAL INTERLOCK.

- GENERAL NOTES**
1. ALL 480 VOLT SWITCHGEAR UTILIZES 125 VDC FOR CONTROL FUNCTIONS.

2. ELECTRICALLY RECHARGED AND OPERATED 480 VOLT CIRCUIT BREAKERS

3. HIGH RESISTANCE GROUNDING WITH PULSER SYSTEM.

4. THE 480V SWITCHGEAR SHALL HAVE AUTO AND MANUAL LOAD TRANSFER SCHEMES. ACTUATED THROUGH DCS AND OPERATED ON POSITIVE UNDERVOLTAGE CONDITION ON THE SWITCHGEAR BUS. OPERATOR MAY MANUALLY TRANSFER VIA DCS CONTROLS WITH AUTO DISABLED. (OPEN TRANSITION)

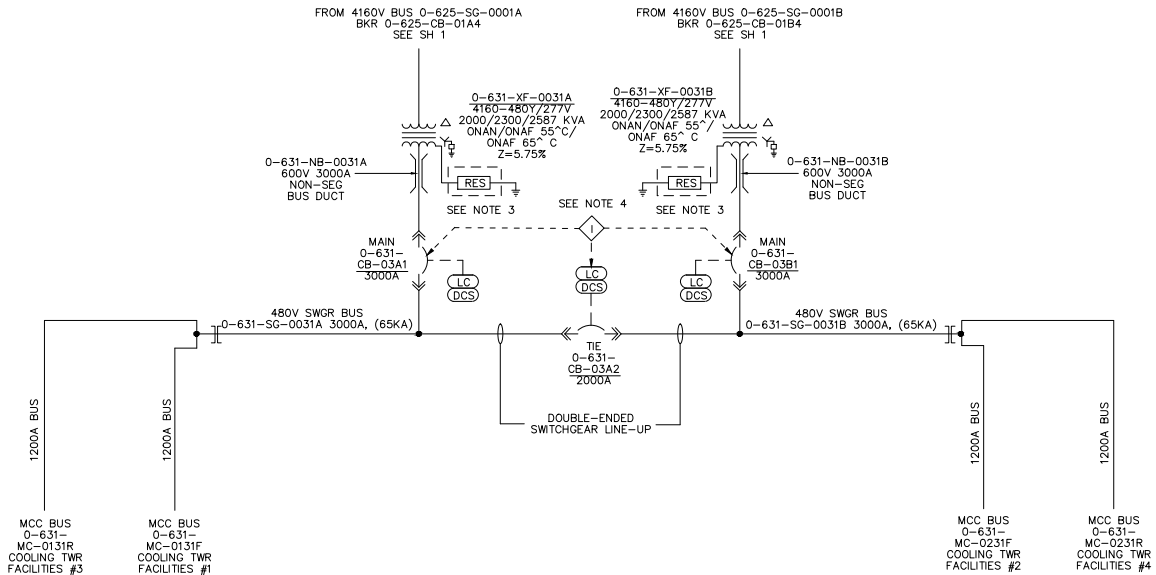
5. ALL 480V MAIN AND TIE SWITCHGEAR BREAKERS ARE CONTROLLED BY THE DCS WHEN RACKED IN (IN SERVICE). LOCAL CONTROL FOR MAIN AND TIE BREAKERS IS TRIP ONLY, WITH LOCAL CLOSE OPERATION IN TEST POSITION.

6. LOCAL CONTROL FOR ALL 480V FEEDER BREAKERS IS LOCAL CLOSE AND TRIP OPERATION.

- REFERENCE DRAWINGS**
1. ELECTRICAL SYMBOLOLOGY SHEET D010322-601E001

2. ONE LINE DIAGRAMS: 0-625-MC-0001A & 0001B D010322-601E100 SH 1

3. UE ORIGINAL DWG D010322-601E100 SH 2



CONTROL NUMBER: XXXXXXXX

B	SB	9/26/24	ALTERED CB-02B5 FEED	JD	
A	SB	9/17/24	COPY FROM VENDOR DWG	JD	
REV No.	DRWN BY	DATE	DESCRIPTION	APPR BY	

DRAWING TITLE:

PLANT ELECTRICAL OVERVIEW  
DRAWINGS ONE-LINE  
DIAGRAM 480V BUSES  
0-631-SG-0021A, 0021B, 0031A, & 0031B

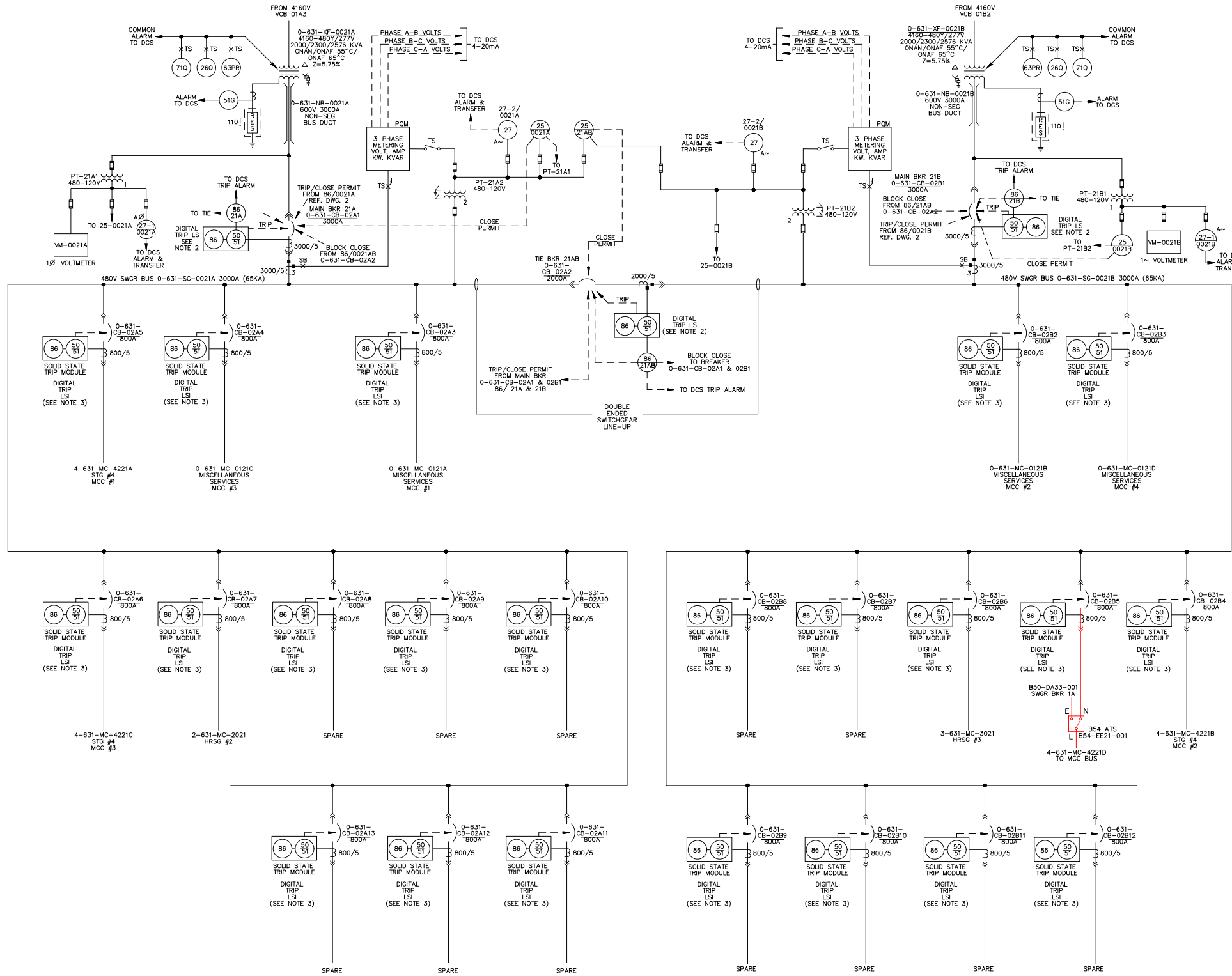


BRANDY BRANCH  
GENERATING  
STATION

CONTRACTOR NAME AND LOGO

UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-





**LEGEND**

1. SEE REF DWG 1 FOR LEGEND

**GENERAL NOTES**

1. ALL 480 VOLT SWITCHGEAR BREAKERS ARE ELECTRICALLY OPERATED UNLESS OTHERWISE NOTED.  
2. DIGITAL UNITS ON MAIN & TIE SHALL HAVE LONG-TIME (L) AND SHORT-TIME (S) PROTECTION.  
3. FEEDER BREAKER TRIP UNITS TO HAVE LONG (L), SHORT (S) AND INSTANTANEOUS (I) PROTECTION.

**REFERENCE DRAWINGS**

1. ELECTRICAL SYMBOLOLOGY SHEET 0010322-601E001  
2. ONE-LINE DIAGRAM - 4160 VOLT 0010322-601E100 SH 01  
3. UE ORIGINAL DWG. 0010322-601E100 SH 01

CONTROL NUMBER: XXXXXXX

REV No.	DRWN BY	DATE	DESCRIPTION	APPR BY
B	SB	9/26/24	ALTERED CB-02B5 FEED	JD
A	SB	9/17/24	COPY FROM VENDOR DWG	JD

DRAWING TITLE:

LOW VOLTAGE AC SYSTEM POWER-STG  
ONE-LINE DIAGRAM 480 VOLT  
SWITCHGEAR BUSES 0021A & 0021B



BRANDY BRANCH  
GENERATING  
STATION

CONTRACTOR NAME AND LOGO

UNIT:	-
PD NO:	-
GEMS:	-
SCALE:	-
PWO NO:	-
DWG NO:	-