

**GENERATOR NO. 21 BKR S2-1, CIRCUIT NO. 120D**  
 TYPICAL SCHEMATIC DIAGRAM FOR GENERATOR NO. 21 BKR S2-1 & GENERATOR NO. 22 BKR S2-2 EXCEPT AS NOTED ABOVE & SHOWN IN TABLE BELOW. WIRE NOS IN PARENTHESIS ARE FOR BKR S2-2

DESCRIPTION	BREAKER NO.	LOCATION	CIRCUIT NO.	MG SET MOTOR BREAKER	ALARM CIRCUIT NO.
GEN. NO. 21 BKR	S2-1	P0MGI	120D	SP3D	AY 0.0.6.6 D.1
GEN. NO. 22 BKR	S2-2	P0MG2	218D	SP3E	AY 0.0.6.6 D.2

**CONTACT POSITIONS**

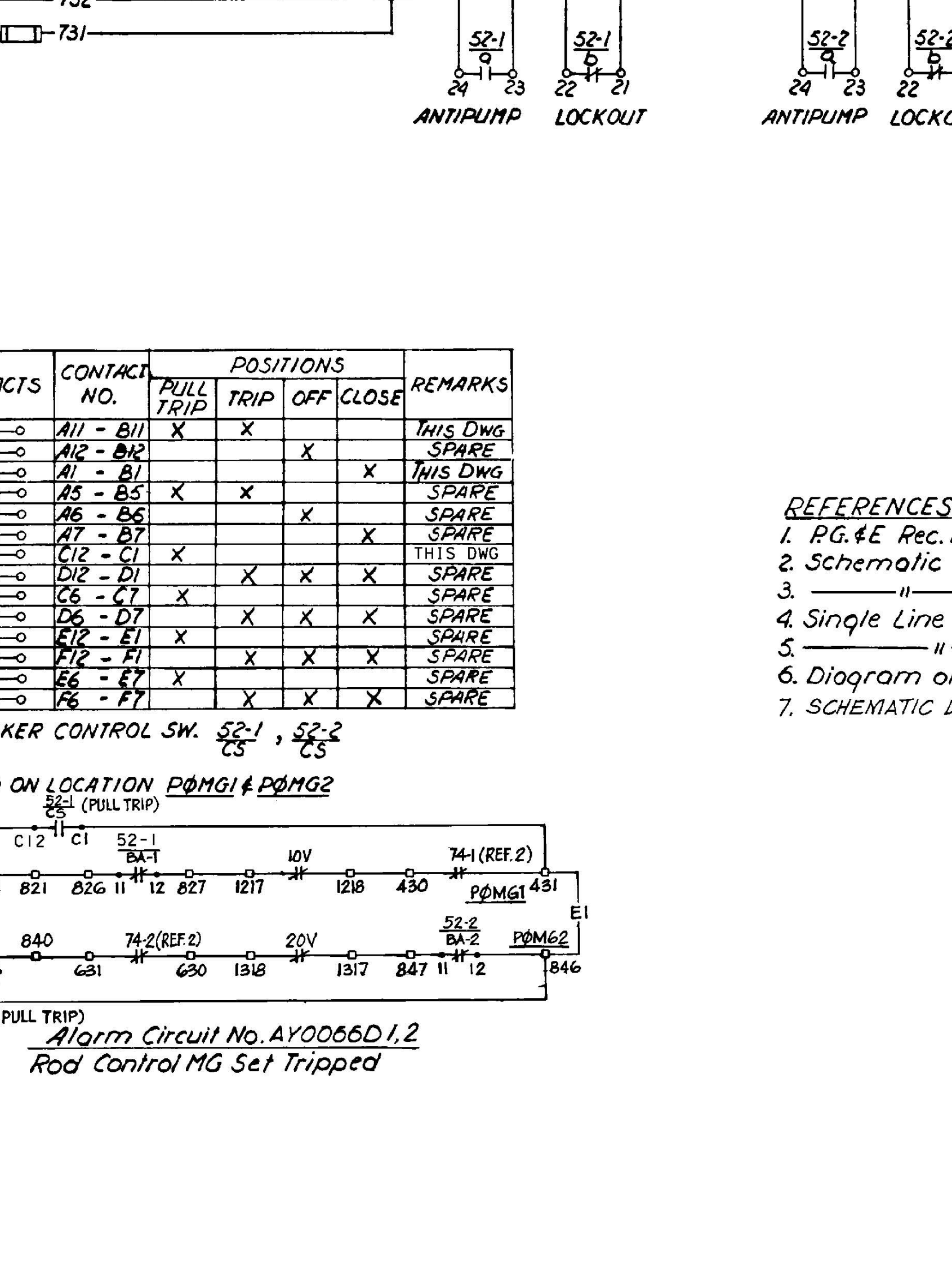
CONTACTS	CONTACT NO.	POSITIONS	REMARKS
0-1-0	A11 - B11	X	DWG 4576.03
0-1-0	A12 - B12	X	SPARE
0-1-0	A1 - B1	X	THIS DWG
0-1-0	A5 - B5	X	THIS DWG
0-1-0	A6 - B6	X	THIS DWG
0-1-0	A7 - B7	X	THIS DWG
0-1-0	C1 - D1	X	THIS DWG
0-1-0	C12 - D12	X	THIS DWG
0-1-0	C1 - D1	X	THIS DWG
0-1-0	C6 - D6	X	THIS DWG
0-1-0	C7 - D7	X	THIS DWG
0-1-0	E11 - F11	X	SPARE
0-1-0	E12 - F12	X	THIS DWG
0-1-0	F1 - F1	X	SPARE
0-1-0	F5 - F5	X	SPARE
0-1-0	F6 - F6	X	THIS DWG
0-1-0	F7 - F7	X	SPARE

**SYNCHRONIZER SW. FOR GENERATOR 21 & 22 USED ON LOCATION P0MGI & P0MG2**

CONTACTS	CONTACT NO.	POSITIONS	REMARKS
0-1-0	A11 - B11	X	THIS DWG
0-1-0	A12 - B12	X	THIS DWG
0-1-0	A1 - B1	X	THIS DWG
0-1-0	A5 - B5	X	THIS DWG
0-1-0	A6 - B6	X	THIS DWG
0-1-0	A7 - B7	X	THIS DWG

**VOLTMETER SW. FOR GEN. NO. 21 & 22 AND AMMETER SW. FOR GEN. NO. 21 & 22 USED ON LOCATION P0MGI & P0MG2**

CONTACTS	CONTACT NO.	POSITIONS	REMARKS
0-1-0	A11 - B11	X	THIS DWG
0-1-0	A12 - B12	X	THIS DWG
0-1-0	A1 - B1	X	THIS DWG
0-1-0	A5 - B5	X	THIS DWG
0-1-0	A6 - B6	X	THIS DWG
0-1-0	A7 - B7	X	THIS DWG



**NOTES:**

- FOR TABLE OF DEVICES, REFER TO SHT. #1 DWG. #441487
- BELL ALARM (BA-1, -2) SEPARATE SWITCH MOUNTED ON BKR FRAME, SW ACTUATES ON O/C ONLY
- FOR DEVICE SETPOINTS SEE PIMS COMPONENT DATABASE
- RLYS 10VT & 20VT SETPOINT VALUES ARE BASED ON MTR/GENERATOR SYSTEM RESPONSE DURING POST MAINTENANCE TEST (MP-E41.2)

**Equipment Location Code**

P0MGI - Control Rod Drive MG Set 21  
 P0MG2 - Control Panel MG Set 21  
 SP3D - SWGR 480V LC23 Bus D  
 S2-1 - SWGR DC 125V Bus 21  
 (A) - Match Circle

**REFERENCES**

- P.G.&E. Rec. Dwg. # DC-663197 - Sh. 14 Thru 31
- Schematic Diag. Control Rod Drive MG Set. Sh. #1 - - - - - Dwg. # 441487
- Reactor Trip Breakers - - - - - Dwg. # 441489
- Single Line Meter & Relay Diagram 250/120V DC System - - - - - Dwg. # 441240
- 480V System Bus Sect. 23 D, E, I, J, - - - - - Dwg. # 441234
- Diagram of Connections Rod Control Motor Gen Set - - - - - Dwg. # 452782
- SCHEMATIC DIAGRAM MAIN ANNUNCIATOR - - - - - DWG. # 500713

**KEY DWG. SECTION 4**

**UNIT 2**

**ELECTRICAL SCHEMATIC DIAGRAM CONTROL ROD DRIVE MOTOR GENERATOR SET**

PACIFIC GAS AND ELECTRIC COMPANY  
 SAN FRANCISCO, CALIFORNIA

DWG SCALES:  
 BILL OF MAT'L:  
 SUPDS:  
 SUPDS BY:  
 DRAWING SHEET PAGE REV  
 441488 1 0 12

DATE: 12-11-2019  
 D.D. AJFJ  
 R.E. FXC2  
 I.V. N/A  
 P.E. N/A

REVISION DESCRIPTION:  
 Revised Per DDT-41892

DATE: 12-11-2019  
 D.D. AJFJ  
 R.E. FXC2  
 I.V. N/A  
 P.E. N/A

UNIT 2  
 ELECTRICAL SCHEMATIC DIAGRAM  
 CONTROL ROD DRIVE  
 MOTOR GENERATOR SET

PACIFIC GAS AND ELECTRIC COMPANY  
 SAN FRANCISCO, CALIFORNIA

DWG SCALES:  
 BILL OF MAT'L:  
 SUPDS:  
 SUPDS BY:  
 DRAWING SHEET PAGE REV  
 441488 1 0 12

DATE: 12-11-2019  
 D.D. AJFJ  
 R.E. FXC2  
 I.V. N/A  
 P.E. N/A

RASTER=441488-1-0.dgn  
 DWN T=449-0-0.dgn  
 CND T=667-AUFJ 09/16/12-11-2019

441488-1