

DASH NO.

TYPE OR MODEL

NEXT ASSEMBLY

AV26

P1060960

11

10

9

8

7

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2

1

GANTRY POWER DISTRIBUTION
GPD

REFERENCE INFORMATION

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CONNECTOR KEYING TABLE

Jx	TYPE	KEY*
J1	MATE-N-LOCK 15	7
J4	MATE-N-LOCK 9	9
J5	MATE-N-LOCK 9	4
J6	HEADER, 40P	NA
J7	MATE-N-LOCK 3	NA
J8	HEADER, 30P	NA
J14	DSUB 9	NA
J15	DSUB 15R	NA
J16	DSUB 25R	NA
J17	DSUB 15P	NA
J20	BNC	NA
J21	BNC	NA
J22	BNC	NA
J23	BNC	NA
J35	HEADER, 40P	NA
J38	MATE-N-LOCK 12	3
J39	MATE-N-LOCK 15	6
J42	MATE-N-LOCK 12	10
J44	MATE-N-LOCK 15	2
J45	MATE-N-LOCK 12	12
J46	MATE-N-LOCK 15	11
J47	MATE-N-LOCK 4	NA
J49	HEADER, 3P	NA
J50	HEADER, 18P	NA
J2	MATE-N-LOCK 5	NA

BOM VARIANTS

VERSION	VARIANT
VARIANT01	FIELD LED
VARIANT02	FIELD LAMP

NOTE: CORRECT BOM VARIANT MUST BE SELECTED WHEN:
1) GENERATING BOM
2) PRINTING SCHEMATIC

BOM VARIANT IS DISPLAYED ABOVE UPPER LEFT CORNER OF TITLE BLOCK

PART NUMBERS

	PCBA NAME
ASSY	P1060960
SCH	P1060961
CIR	P1060962
DBB/DETAIL	P1060963
ARTMASTER	P1060964
BOM	P1060965

HIERARCHY VIEW

COVER PAGE
PG. 1

MAIN
PG. 2

AC LOADS
PG. 3

COLLIMATOR - LASER -
AC SERVICE
PG. 4

DC LOADS
PG. 5

DC SPARES
PG. 6

DTR CARD - MONITOR
PG. 7

GANTRY CABINET
PG. 8

IMAGING DC POWER
PG. 9

LAMPS
PG. 10

MOTOR POWER SUPPLY
PG. 11

AC MONITORS
PG. 12-19

SCHEMATIC DESIGN NOTES

1. ALL BYPASS CAPS ARE: 0.1 MICROFARADS, 50V, 10%

2. PARTIAL REF DES ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NO. & SUBASSY DESIGNATION.

3. TERMINAL NO. ARE SHOWN FOR REFERENCE ONLY & MAY NOT APPEAR ON THE COMPONENT.

4. RESISTANCE ARE IN OHMS; CAPACITANCE ARE IN MICROFARADS.

5. L5, R150, R189, R190, U3, C3, R10, R11 ARE NOT INSTALLED IN ALL VARIANTS.

6. FIELD LAMP OPTION A OR OPTION B INSTALLED ONLY.

VARIANT02

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THE ELECTRONIC SIGNATURE RECORD WILL BE APPENDED TO THE LAST PAGE OF THE SECURED DOCUMENT

DESCRIPTION OF CHANGE

INITIAL RELEASE

Rework MPS RS422 circuit on pg 11.
Updated heat sink pn on pg 10.

Rework 24V load switch circuits with TPS1HTC30AQWPRQ1 .
Added zener diodes to ac monitoring circuits.
Changed value of series resistors at the status outputs.
Changed net names for fault signals from mps to name .N.
Added set of 24V/RET pins to J4 and moved key to pin 9.
Replace SN65HVD1477DR with AM26LV32EIPWR for enable functionality.
Updated test points to SMD.

TITLE:

SCH, GANTRY POWER DISTRIBUTION

DRAWN:
D. BELIAKOVA

SHEET
1 OF 19

D

P1060961

C

DATE: 03/27/2023

ORCAD CAPTURE

SIZE

DWG NO

REV

11

10

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2

1

13. November 2024

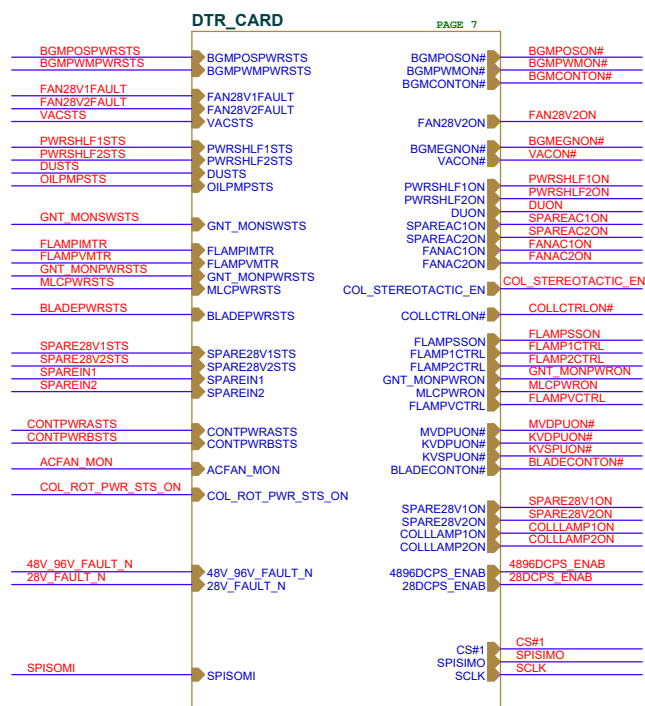
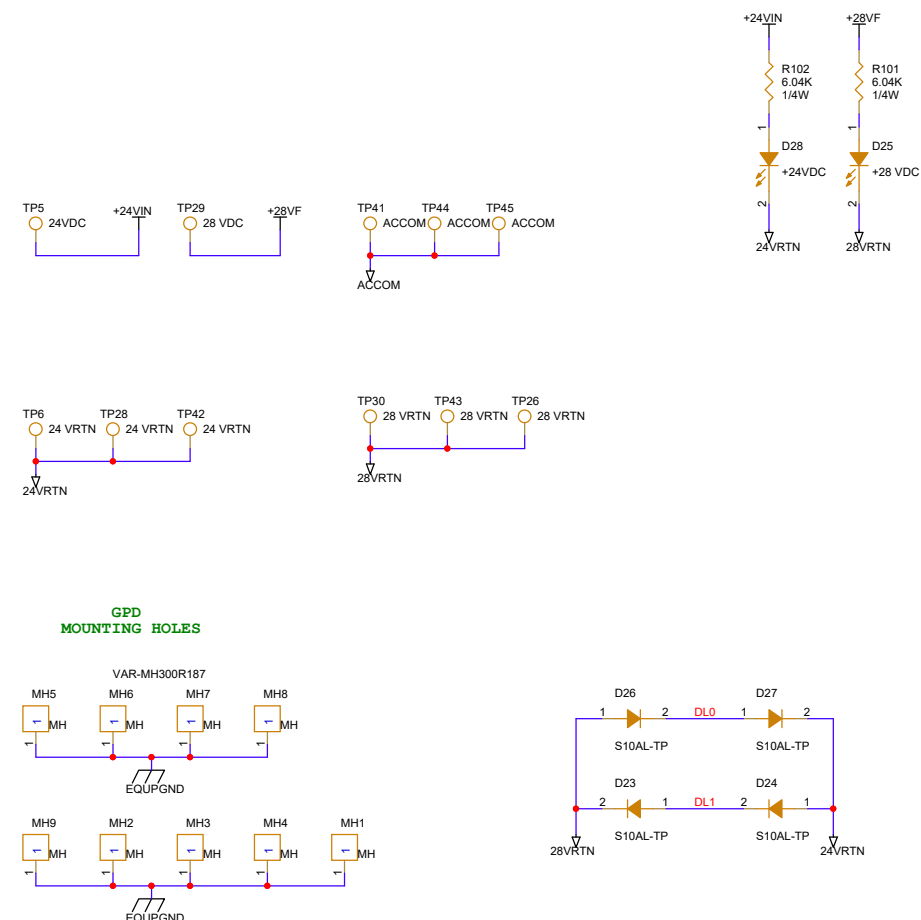
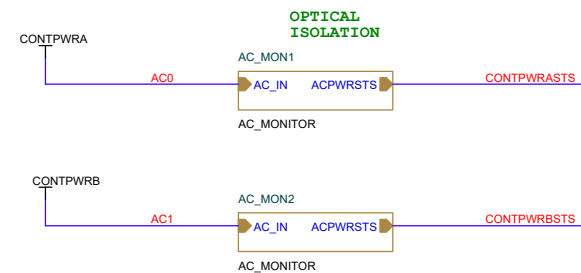
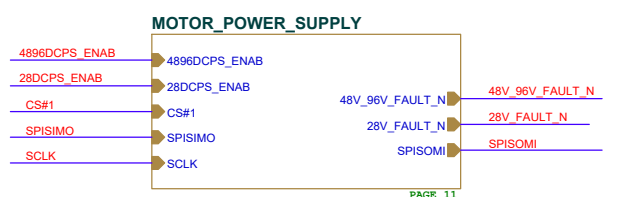
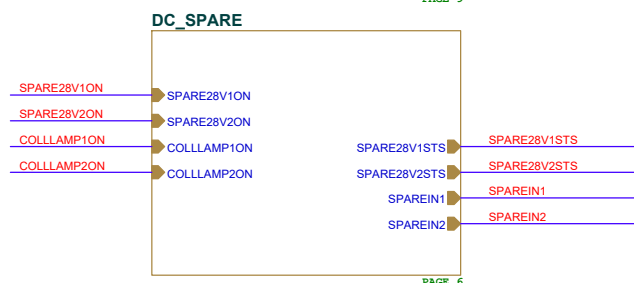
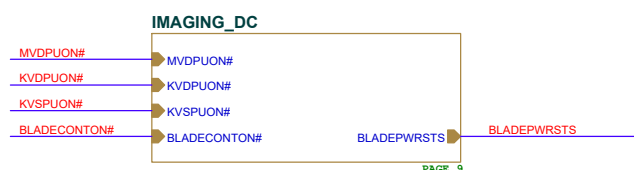
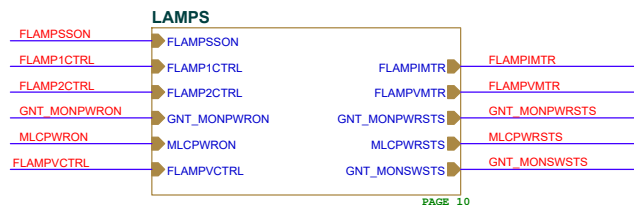
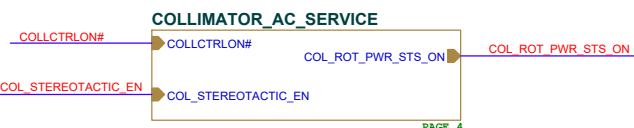
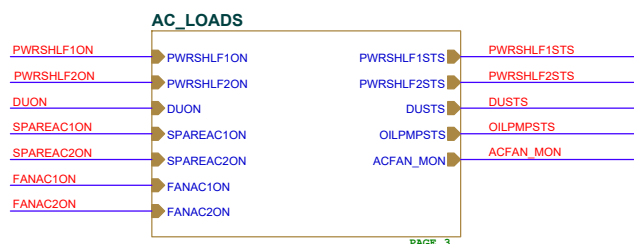
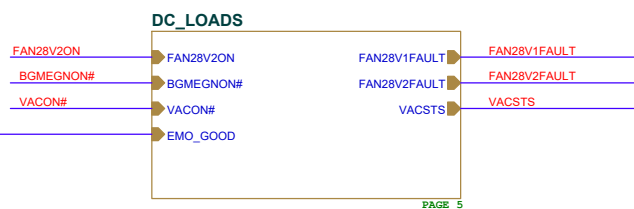
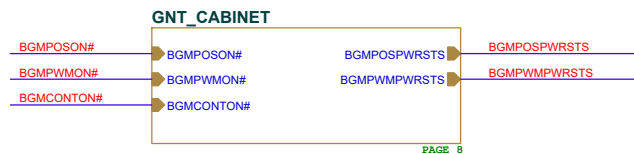
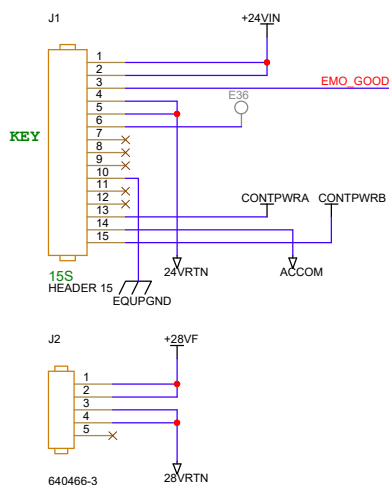
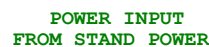
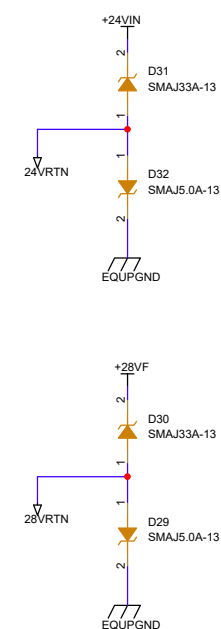
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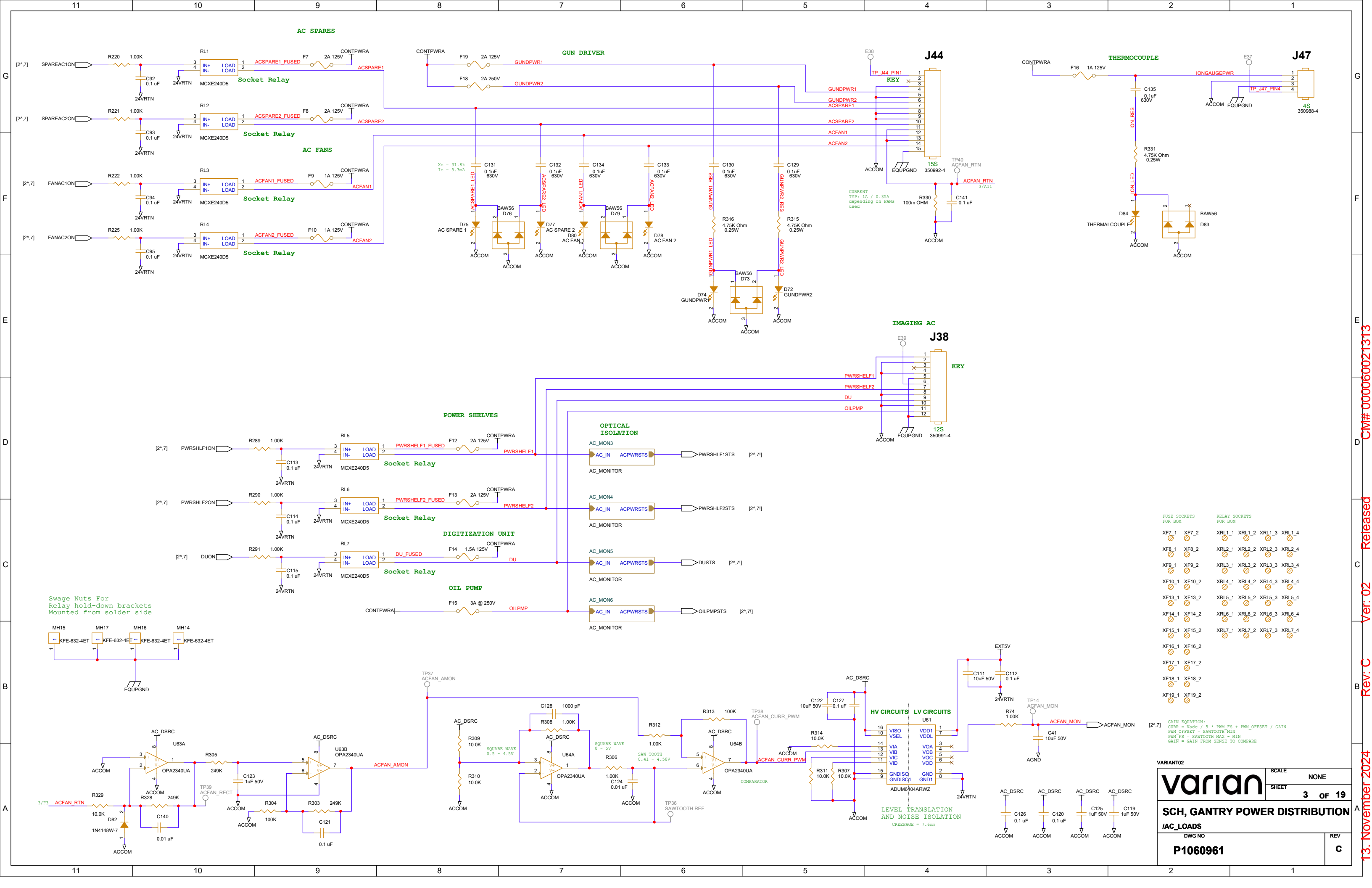
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Ver: 02

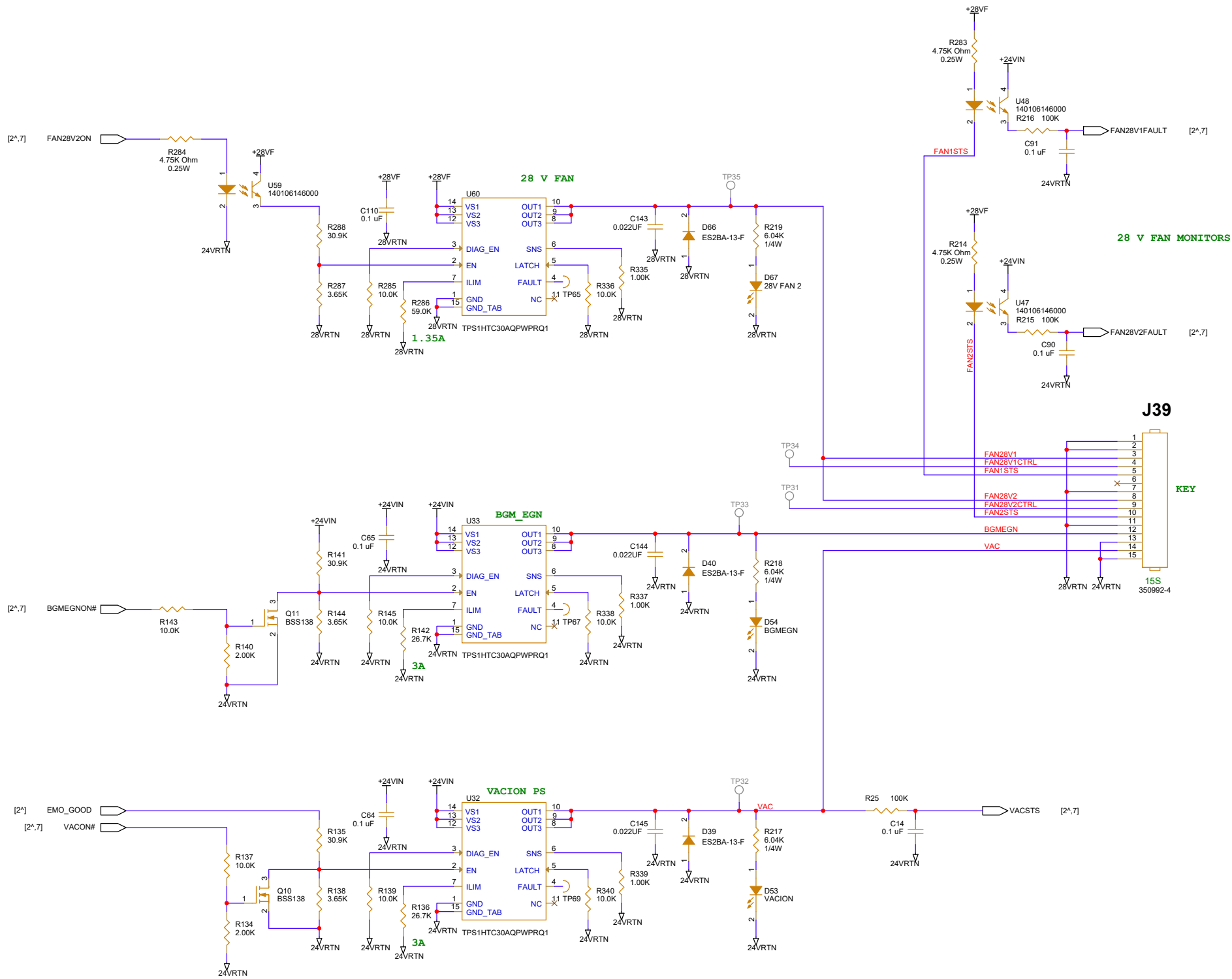
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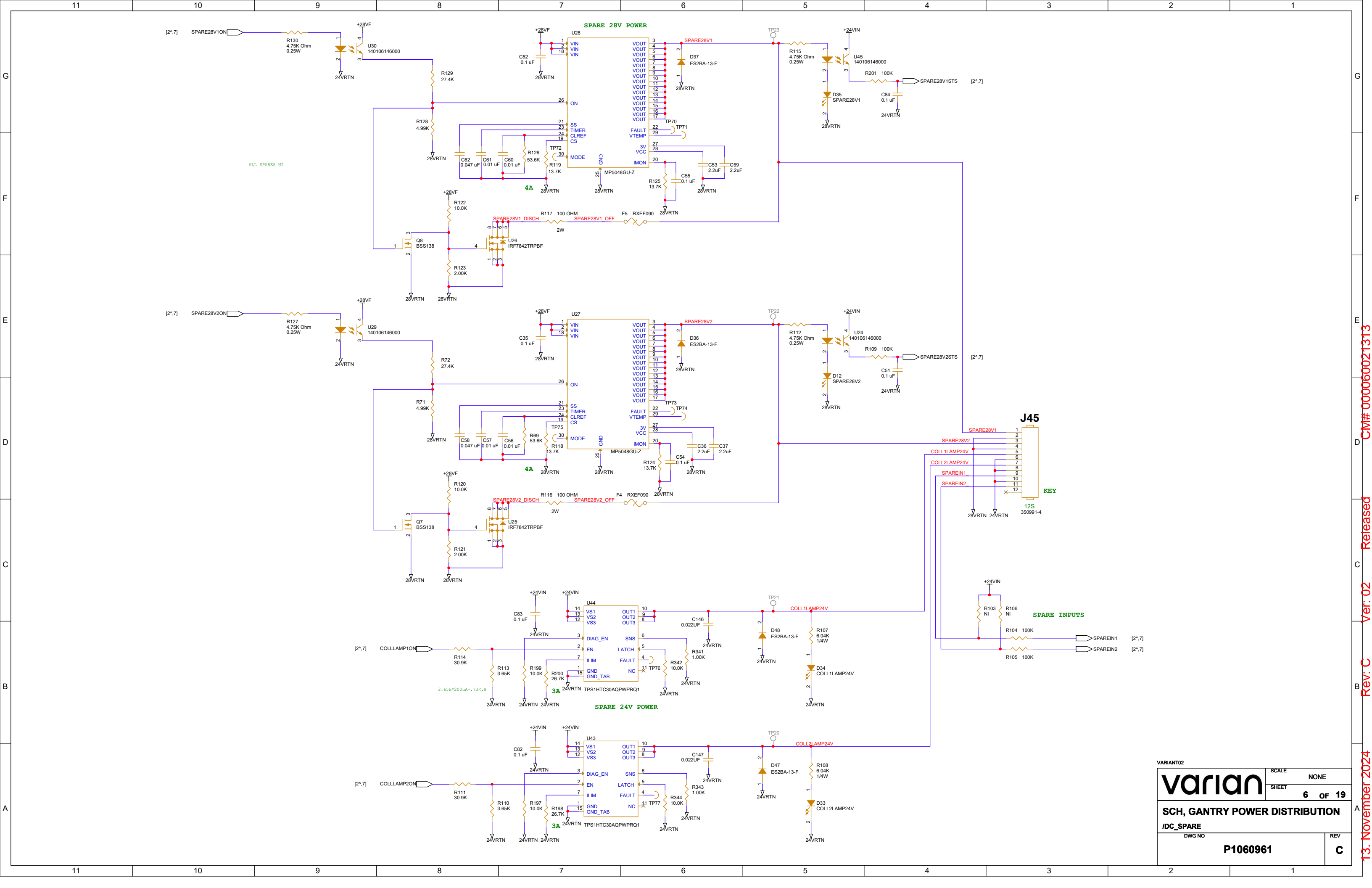
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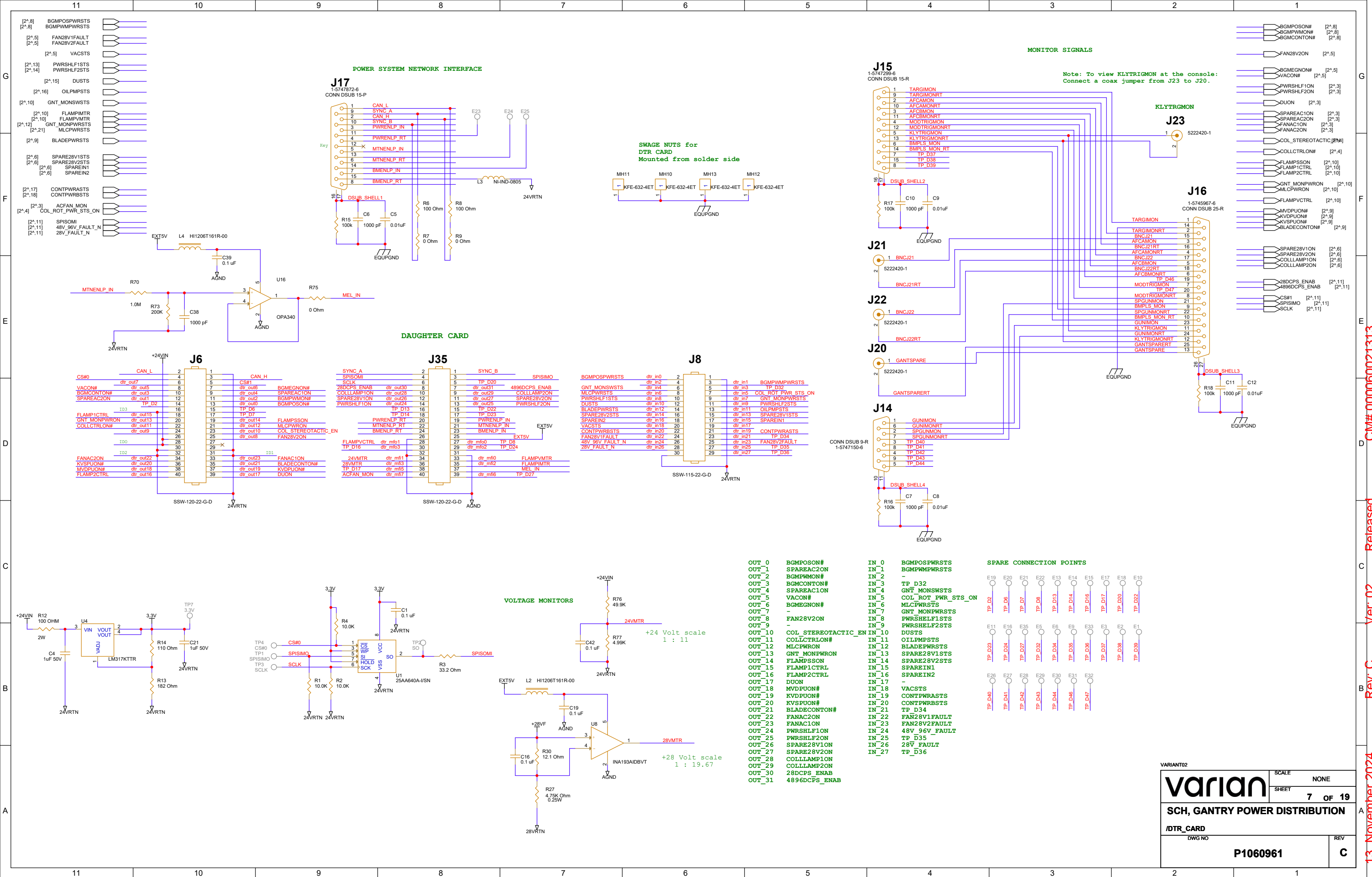
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Rev: C
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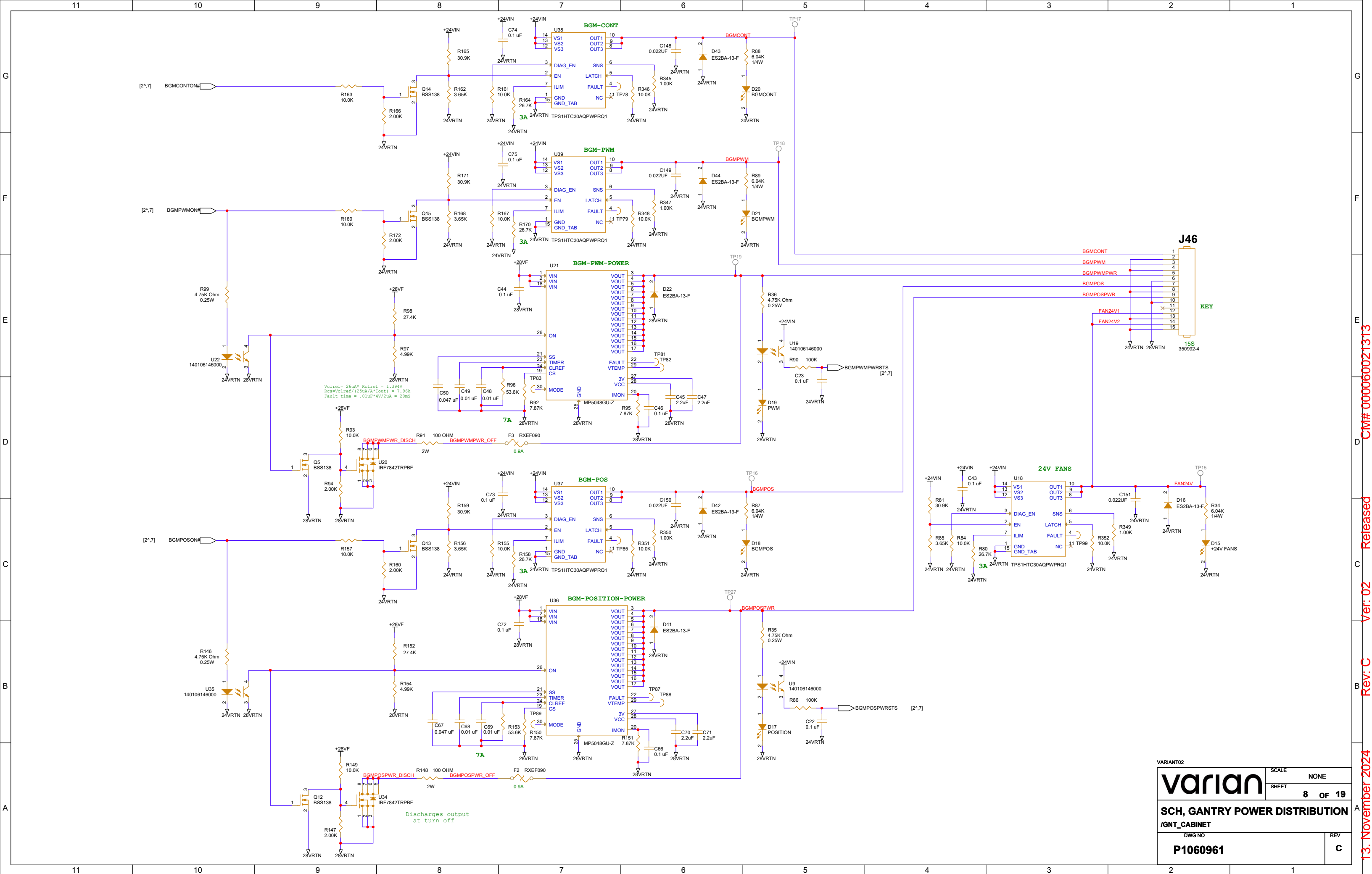




VARIANT02		SCALE	NONE
varian		SHEET	6 OF 19
SCH, GANTRY POWER DISTRIBUTION			
/DC_SPARE			
DWG NO	P1060961		REV
		C	

13. November 2024
Rev: C
Ver: 02
Released
CM# 000060021313





VARIANT02

varian

SCALE
NONE

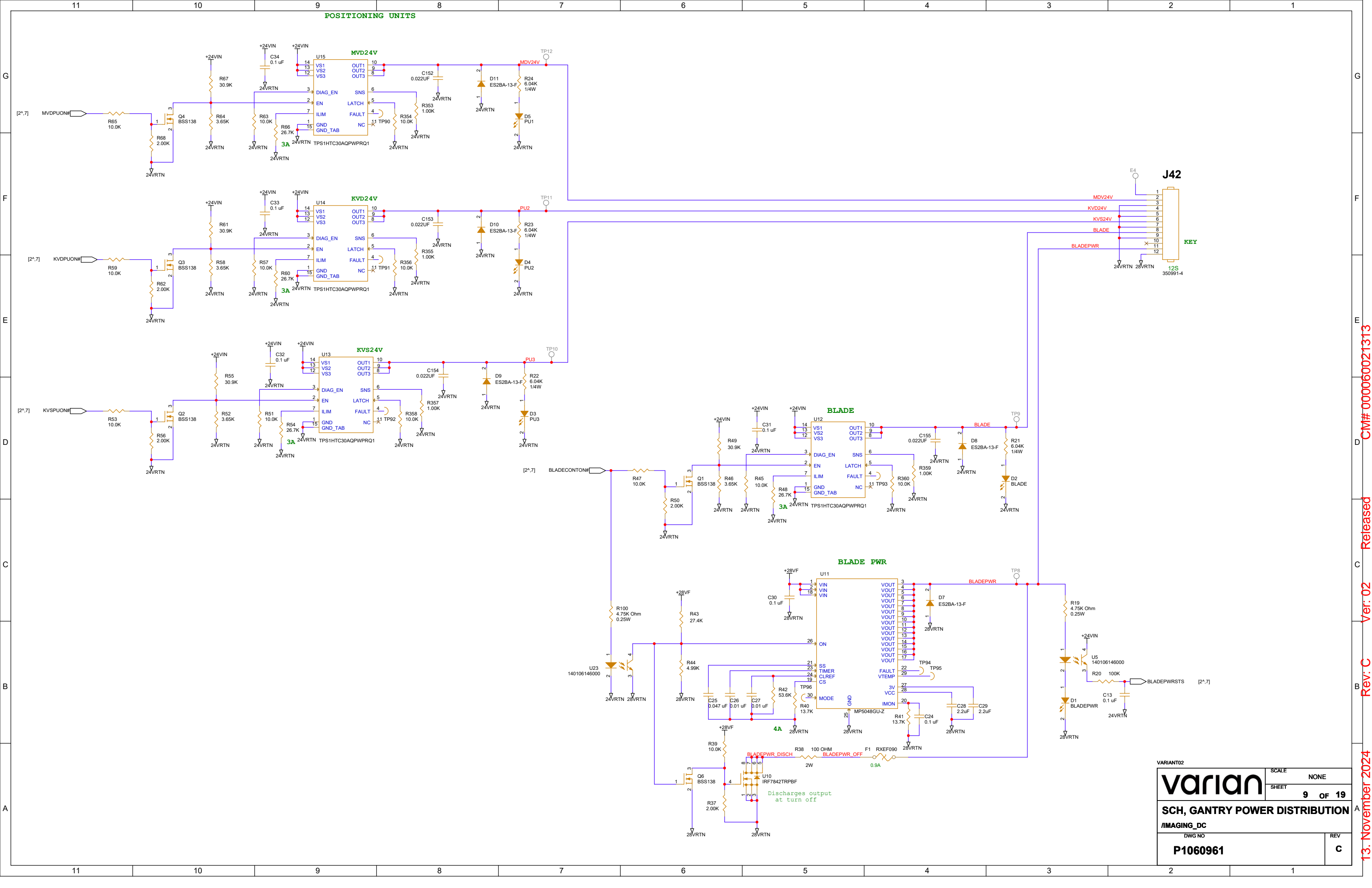
SHEET
8 OF 19

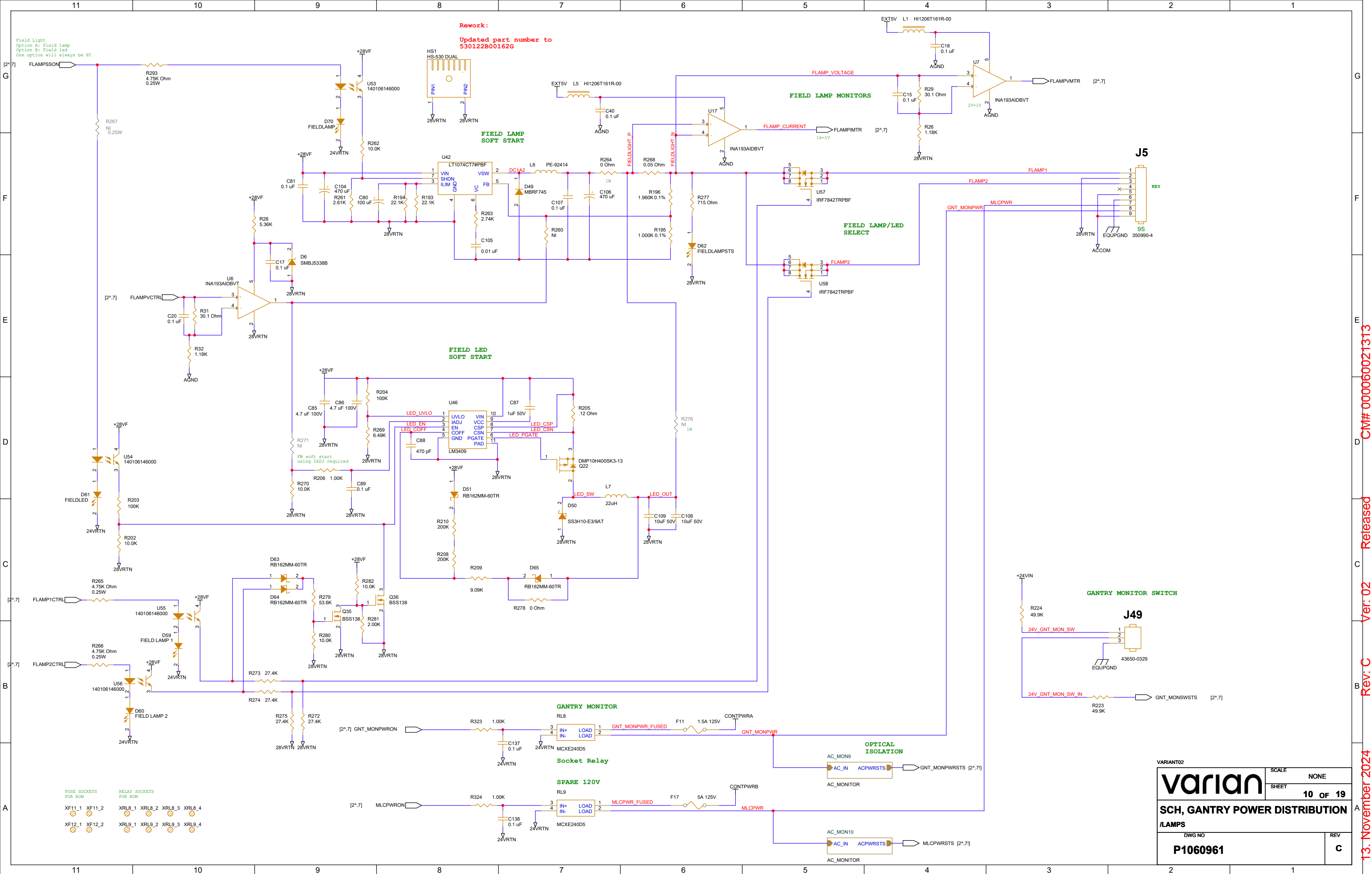
SCH, GANTRY POWER DISTRIBUTION
/GNT_CABINET

DWG NO
P1060961

REV
C

13. November 2024
Rev: C
Ver: 02
Released
CM# 000060021313





Rework:
Updated part number to
530122B00162G

FIELD LAMP
SOFT START

FIELD LED
SOFT START

FIELD LAMP MONITORS

FIELD LAMP/LED
SELECT

GANTRY MONITOR

OPTICAL
ISOLATION

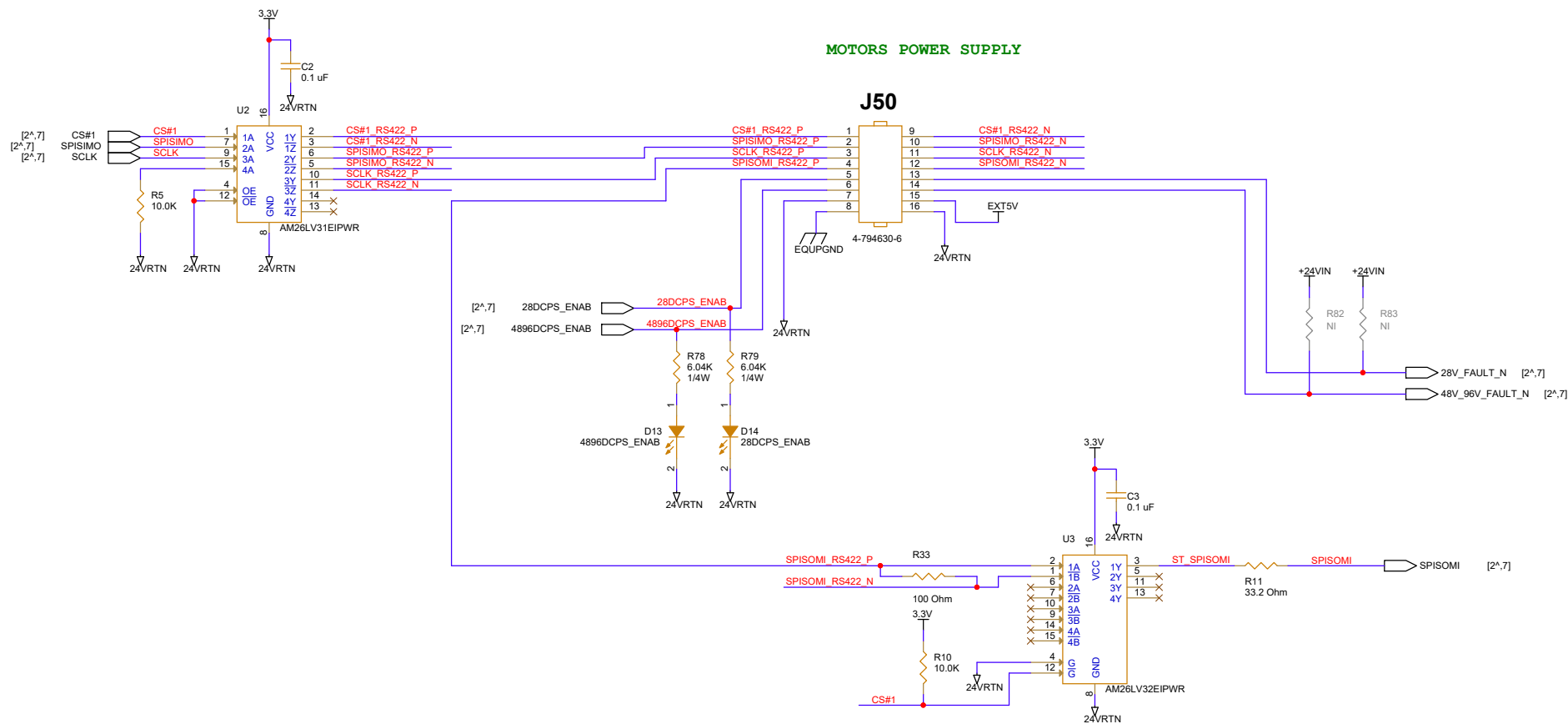
Socket Relay

SPARE 120V

GANTRY MONITOR SWITCH

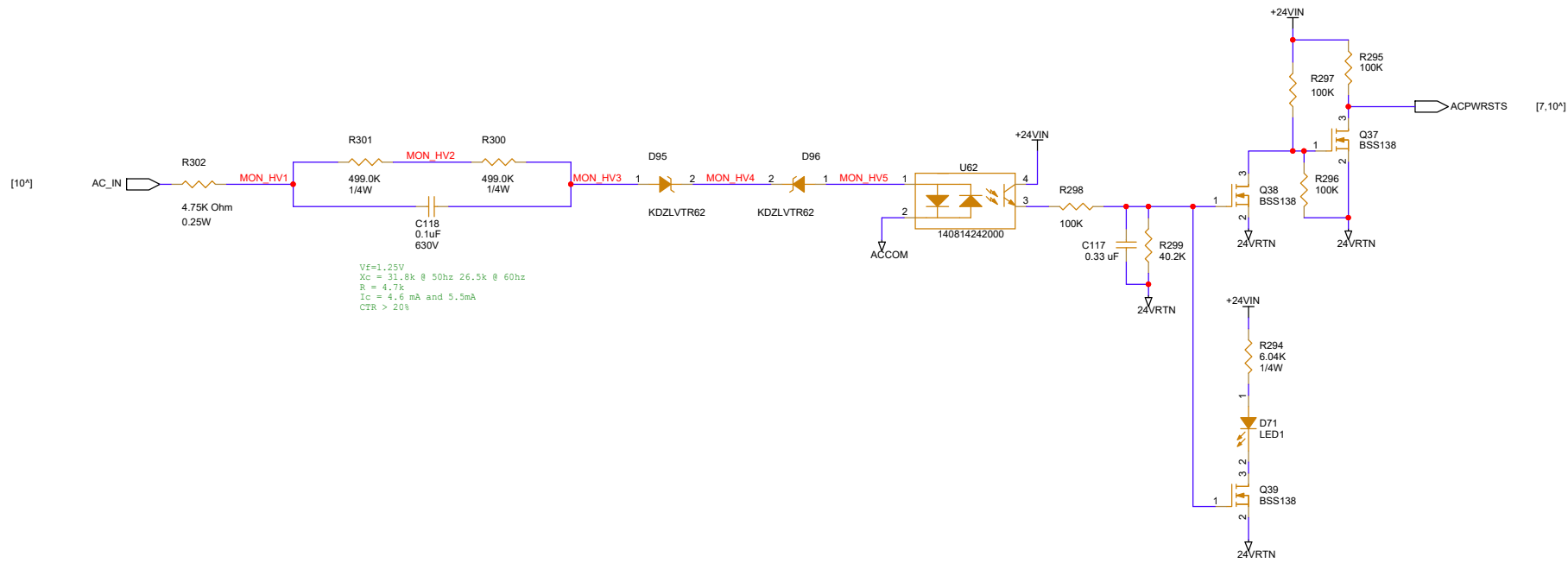
VARIANT02

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SCH, GANTRY POWER DISTRIBUTION			
/LAMPS			
DWG NO		REV	
P1060961		C	



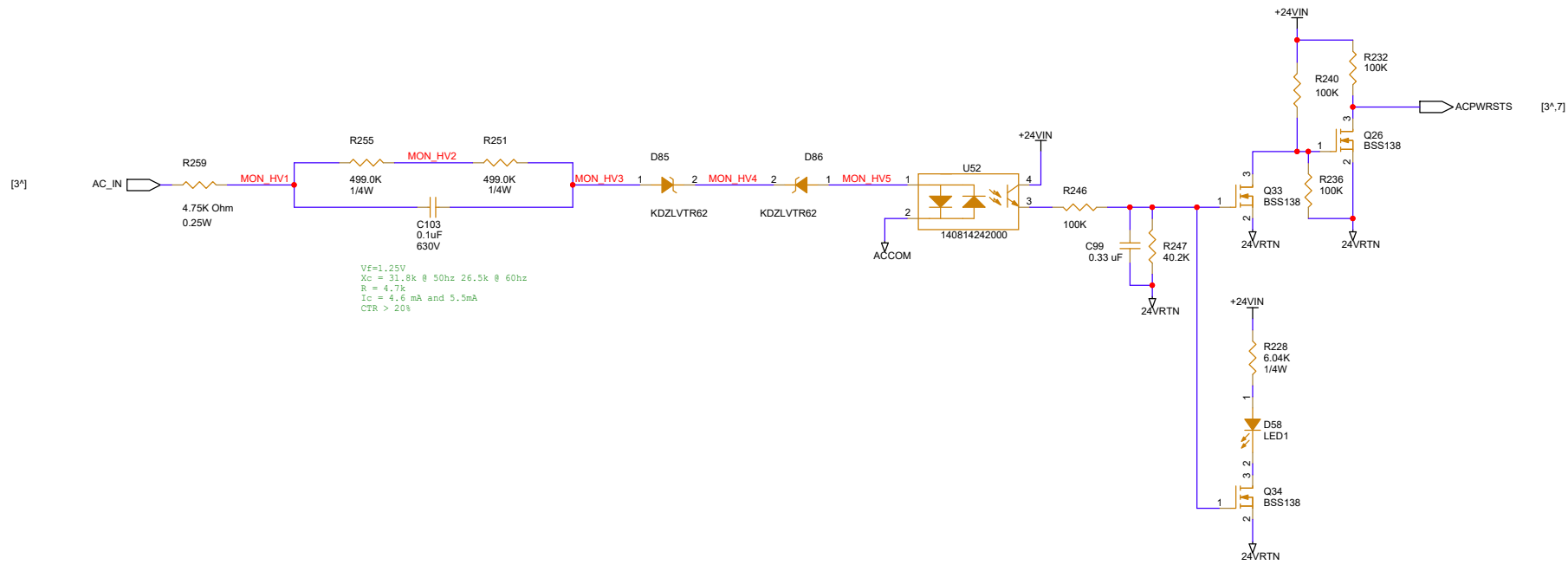
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/MOTOR_POWER_SUPPLY		
DWG NO	REV	
P1060961	C	



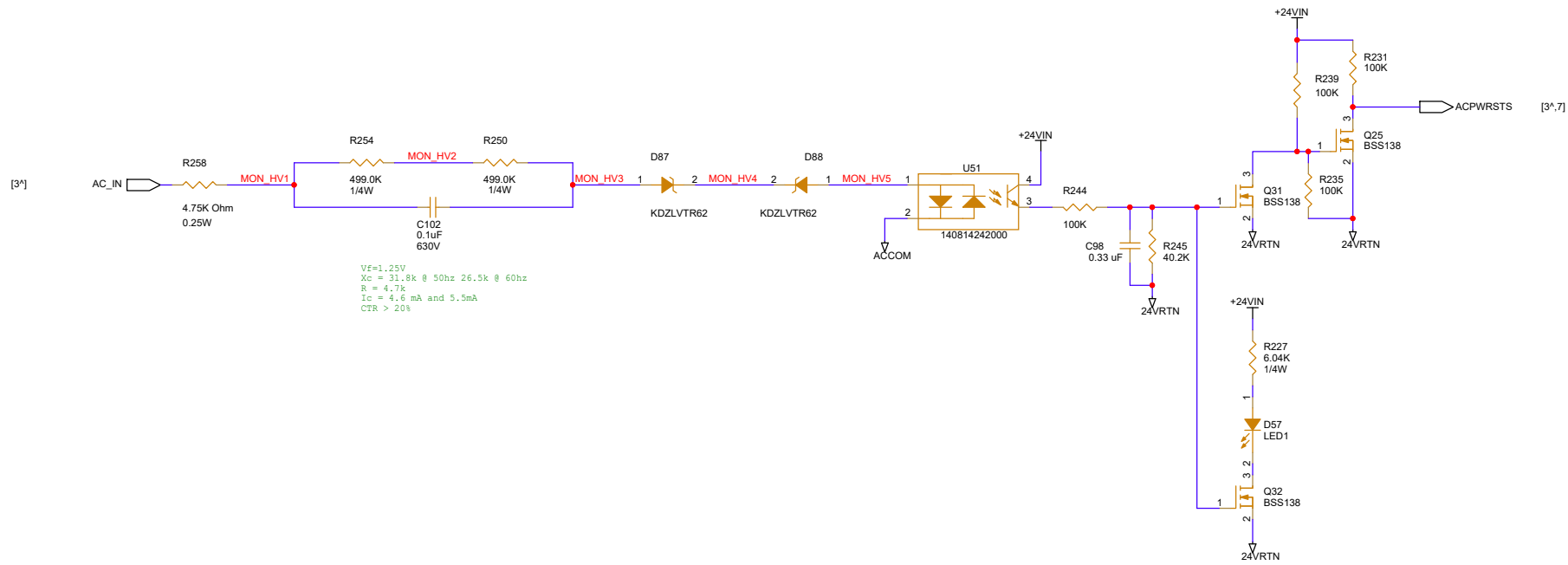
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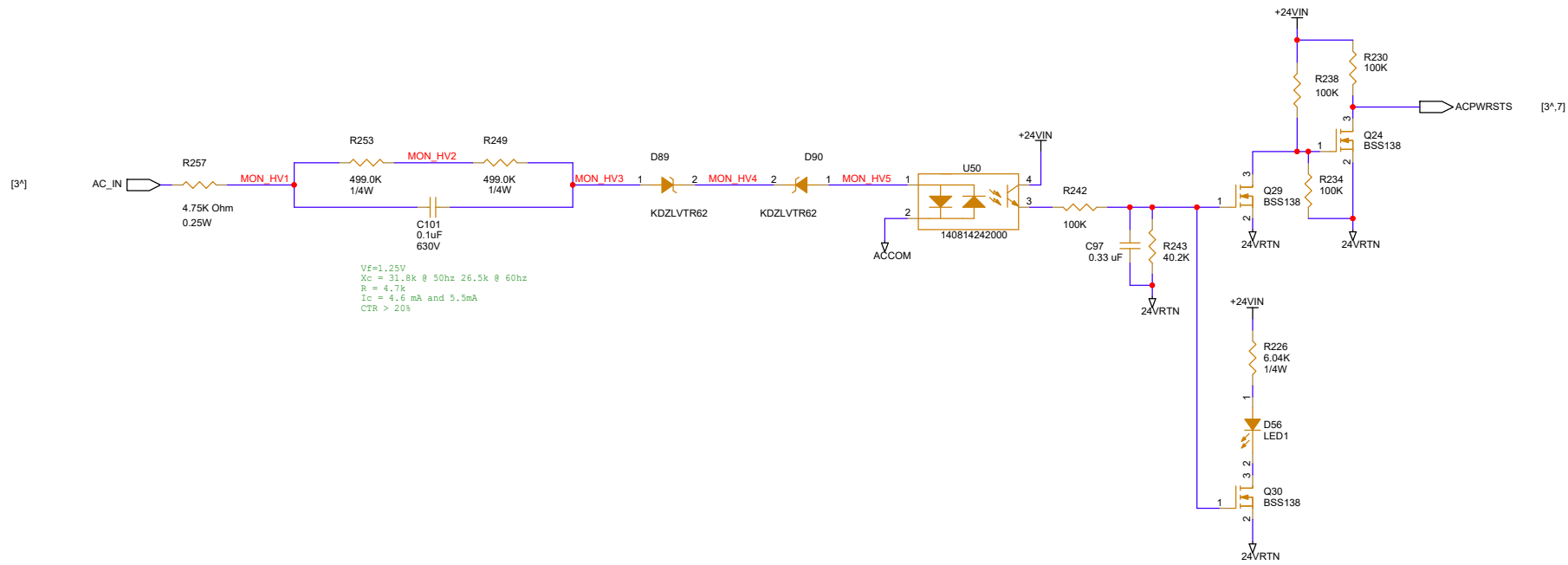
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SCH, GANTRY POWER DISTRIBUTION		
/LAMPS/AC_MON9		
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P1060961	C	

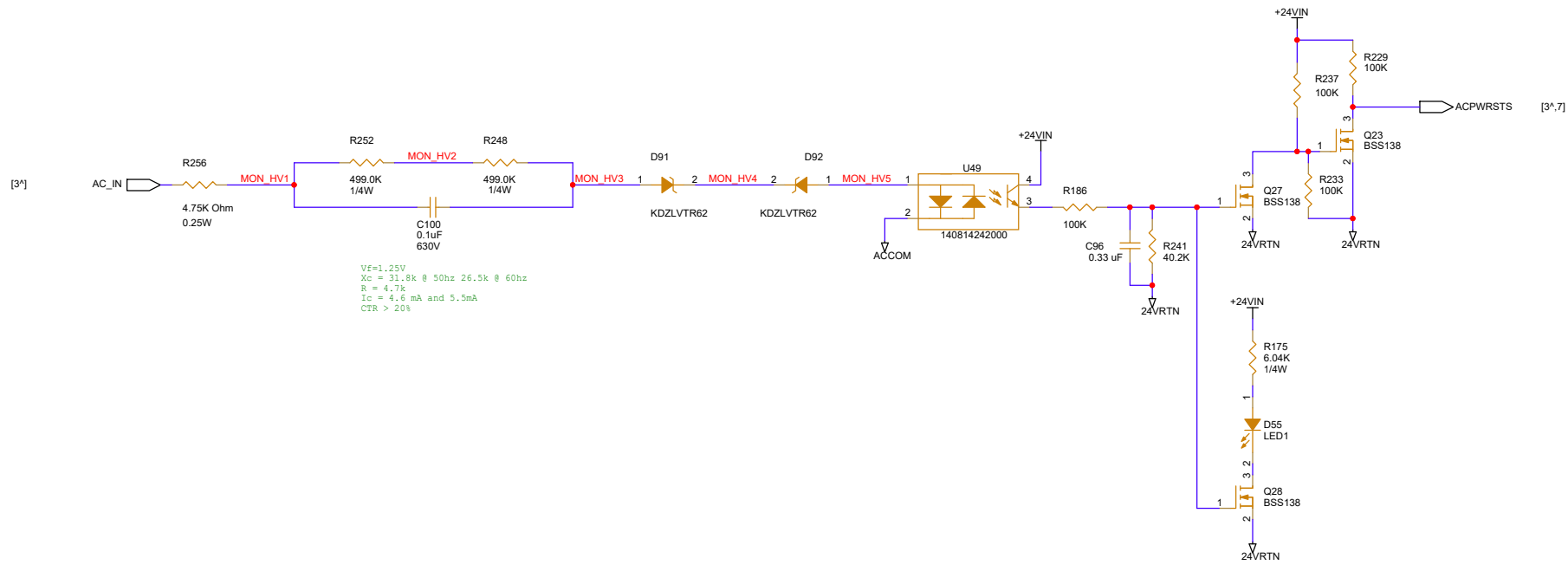


VARIANT02

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SCH, GANTRY POWER DISTRIBUTION		
/AC_LOADS/AC_MON3		
DWG NO	REV	
P1060961	C	

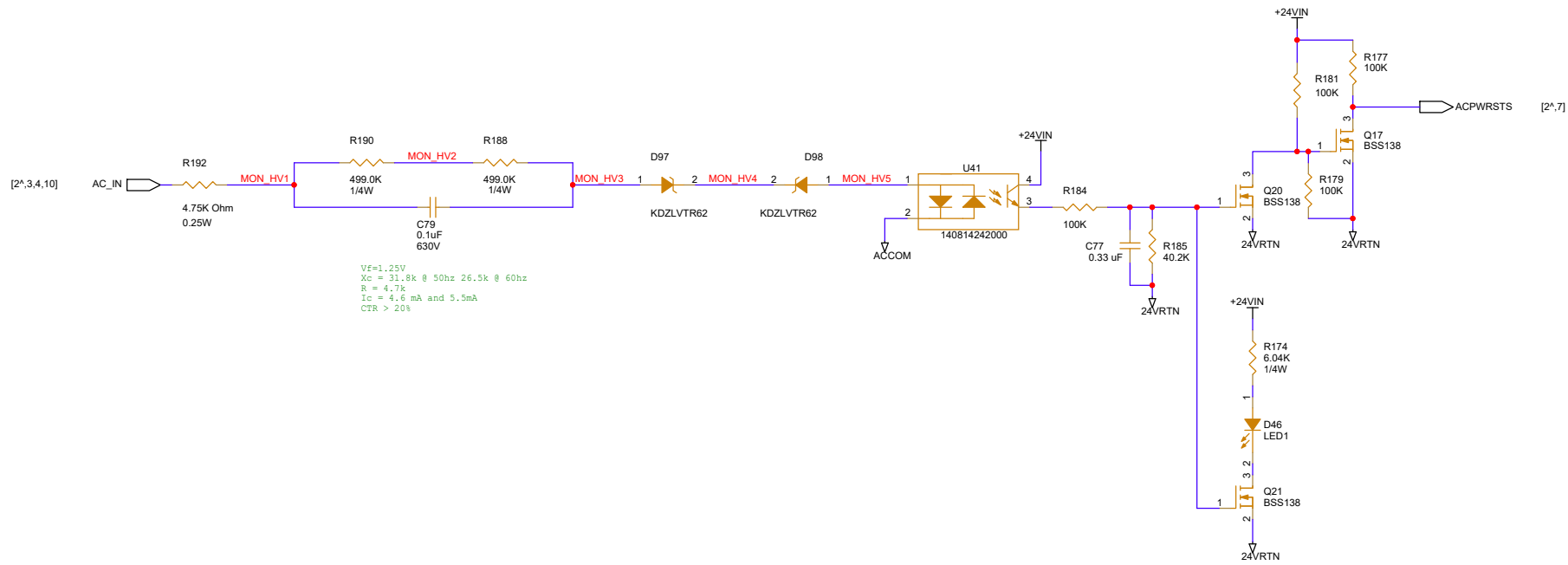






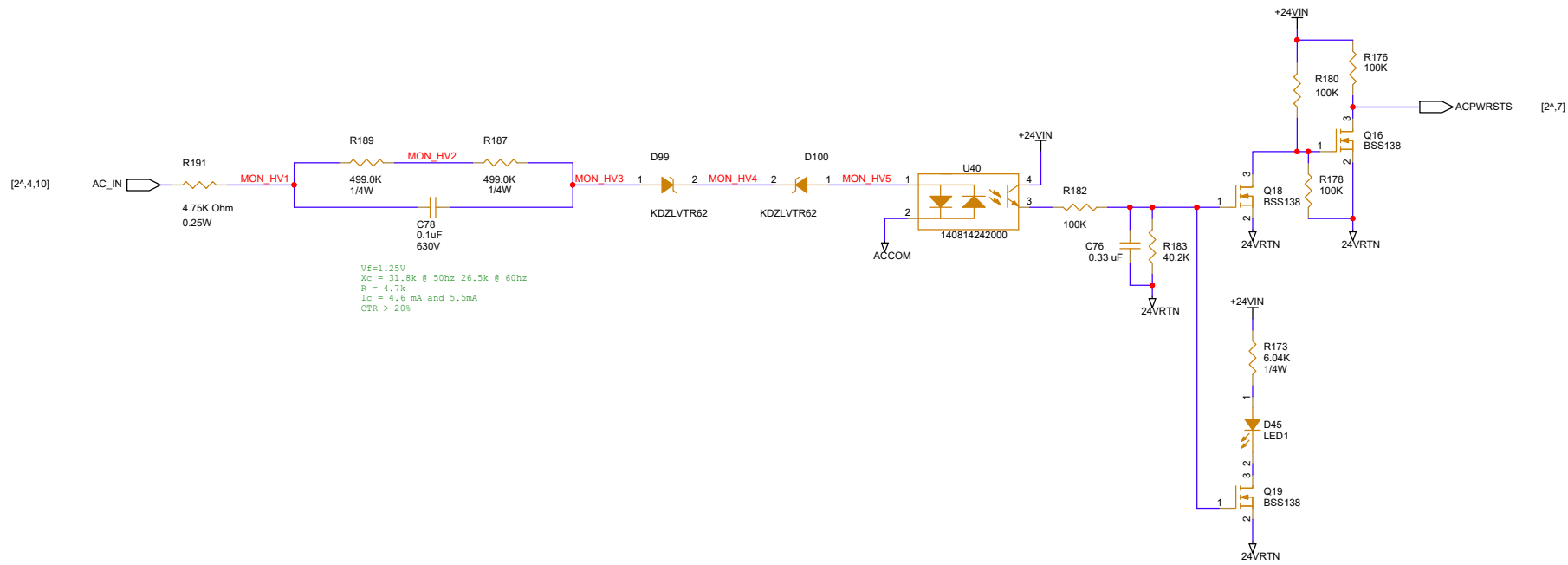
VARIANT02

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	SHEET	16 OF 19
SCH, GANTRY POWER DISTRIBUTION		
/AC_LOADS/AC_MON6		
DWG NO	REV	
P1060961	C	



Vf=1.25V
Xc = 31.8k @ 50hz 26.5k @ 60hz
R = 4.7k
Ic = 4.6 mA and 5.5mA
CTR > 20%

VARIANT02		SCALE		NONE	
varian		SHEET		17 OF 19	
		SCH, GANTRY POWER DISTRIBUTION			
/AC_MON1					
DWG NO				REV	
P1060961				C	





13. November 2024 Rev: C Ver: 02 Released CM# 000060021313

Signature File



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ECN Number: 200109932
ECN Description:

Signature list

Date	Time	User	Status
13, November 2024	18:31:00	Gary Yen	Released
07, November 2024	01:14:22	Darya Beliakova	Approved
07, November 2024	01:02:01	Kevin Greenberg	In Eng Approval
07, November 2024	01:00:36	Kevin Greenberg	In Checking
07, November 2024	00:27:54	Darya Beliakova	In Drafting
06, November 2024	23:06:08	Kevin Greenberg	In Eng Approval
06, November 2024	21:47:56	Gary Yen	In Checking
06, November 2024	21:32:52	Gary Yen	In Drafting
04, November 2024	22:41:13	Gary Yen	In Works