



PM Standard Form

## SUPPLIER DOCUMENT COVER SHEET



Client:	Alexion	P/O No / Contract No:	IE0311488-56-PO-0710
PM Project No:	IE0311488	MR No:	IE0311488-46-MR-0710
Project Title:	BDS Facility		
Supplier:	Cochran		
Equipment Description	Plant Steam Generation Package		
PM Document Category:	F12	Sequential No:	0001
Supplier Document No:	35/6553-5/F12		
Supplier Document Title:	Electrical Schematics		
PM Complete Number:	IE0311488-S-46-0710-F12-0001E		

This document is relevant to the following Equipment Tag No(s):		Comments
BO-114101-3		

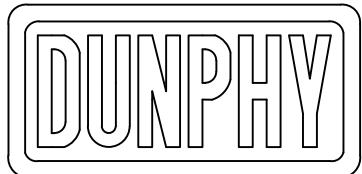
## Notes:

1. A Supplier Document Cover Sheet shall be produced for each document identified in the agreed Supplier Document Index.
2. Each document shall be reviewed by PM and given a Document Status Code (ref list below).
3. Document numbers and revisions should appear on the first page on of the attached document.
4. Applying a Code 4 status to the documents attached to this cover sheet, does not relieve the supplier of contractual obligations – a supplier is chosen for its expertise, and it is incumbent on the supplier to comply with Project specifications, local and other Regulations and applicable Design Codes.

Document Status Codes
<ol style="list-style-type: none"><li><input type="checkbox"/> Document is unacceptable. Revise and re-submit.</li><li><input type="checkbox"/> Incorporate comments and resubmit.</li><li><input type="checkbox"/> Resubmit as "Final Certified". Work may proceed in accordance with the contract.</li><li><input checked="" type="checkbox"/> No comment. Work May Proceed in accordance with the contract.</li></ol>

Signature:

03/Nov/2017  
Date: ..... / ..... / .....



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DUNPHY COMBUSTION LIMITED  
ROUCHDALE ENGLAND.  
OL11 2SL  
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FAX: 01706 65 55 12  
E-MAIL: drawing-office@dunphy.co.uk

TYPE	SERIAL NUMBER	SHEET INDEX	
SYSTEM 5000	24255/56/57	1	TITLE
MODEL	SITE REFERENCE	2	NOTES
TD 640 ZM L VP RT-SC	COCHRAN - ALEXION	3	MAINS
DESCRIPTION	FULLY MODULATING GAS BURNER WITH SYSTEM 5000 CONTROL PANEL, RATIOTRONIC 6000, VARIABLE SPEED COMBUSTION AIR FAN, O2 TRIM, FLOW METERS, SELF CHECKING FLAME SCANNER & TWIN VSD FEED PUMPS. 110V CONTROL CIRCUIT.	4	MAINS
WIRE INDEX - ALL TRI-RATED (LSF)		5	MAINS
TYPE	LINE	NEUTRAL	EARTH (PE)
400VAC 3-PHASE AC POWER	BRN/BLK/GRY		
230VAC 1-PHASE AC POWER	BROWN	BLUE	
110V CONTROL CIRCUIT	GREY	PURPLE	
ELV DC CIRCUIT (24VDC)	RED (+)	BLACK (-)	
VOLTAGE FREE	ORANGE	ORANGE	
MINIMUM WIRE SIZE (sq.mm)			
TYPE	LINE	NEUTRAL	EARTH (PE)
POWER CIRCUIT	1.5	1.5	1.5
CONTROL CIRCUIT	0.75	0.75	0.75
TITLE			DWG No.
SYSTEM 5000	DRN.	EK.	REV.
TD 640 ZM L VP RT-SC	CHKD.	S.H.	
DATE	26.5.16		GS 11666
This drawing is copyright © and is the property of DUNPHY COMBUSTION LTD. It must not be used or reproduced without the expressed permission and licence of:- DUNPHY COMBUSTION LTD		31.03.17	J.H.
1		13.10.16	EK.
ECONOMISER BLEED VALVE ADDED			
REV.	DESCRIPTION	DATE	DRN.
			1 - 40

## NOTES

IMPORTANT: BEFORE ATTEMPTING ANY WORK ON THIS EQUIPMENT, ALL ELECTRICAL SUPPLIES  
MUST BE ISOLATED.

## WIRING

ALL EQUIPMENT SHOWN ON THIS DRAWING MUST BE WIRED USING THE CABLE SIZES AND COLOURS  
SPECIFIED ON SHEET 1 OF THE DRAWING UNLESS SPECIFIED ELSEWHERE.

SCREENED CABLE MUST BE USED WHERE SHOWN, AND MUST BE FOIL SCREEN WITH OVERALL BRAID  
TYPICAL BELDEN TYPE 9927 OR EQUIVALENT.

SECURE ALL CABLES CARRIED IN CONDUIT AT BOTH ENDS USING A SUITABLE ANCHORAGE METHOD IN  
THE CABINET.

CONNECT ALL CABLE SCREENS TO EARTH USING THE SCREEN TERMINATION CLAMPS / TERMINALS  
PROVIDED AS SHOWN IN THE DRAWING.

IT IS IMPORTANT TO ENSURE THAT THE MAXIMUM AMOUNT OF SCREEN AND ASSOCIATED INSULATION  
IS LEFT ON THE CABLE AS POSSIBLE TO REDUCE THE RISK OF INTERFERENCE.

## RATIOTRONIC 6000 / 6006 INSTALLATION NOTES

THE RATIOTRONIC MAIN UNIT HAS A NUMBER OF OPTION SELECTION LINKS LOCATED ON THE CIRCUIT  
BOARD WHICH WILL NOT BE EASILY ACCESSIBLE ONCE THE UNIT IS MOUNTED IN THE CABINET.

IMPORTANT: INCORRECT SETTING OF THESE LINKS MAY DAMAGE OR DESTROY THE UNIT.

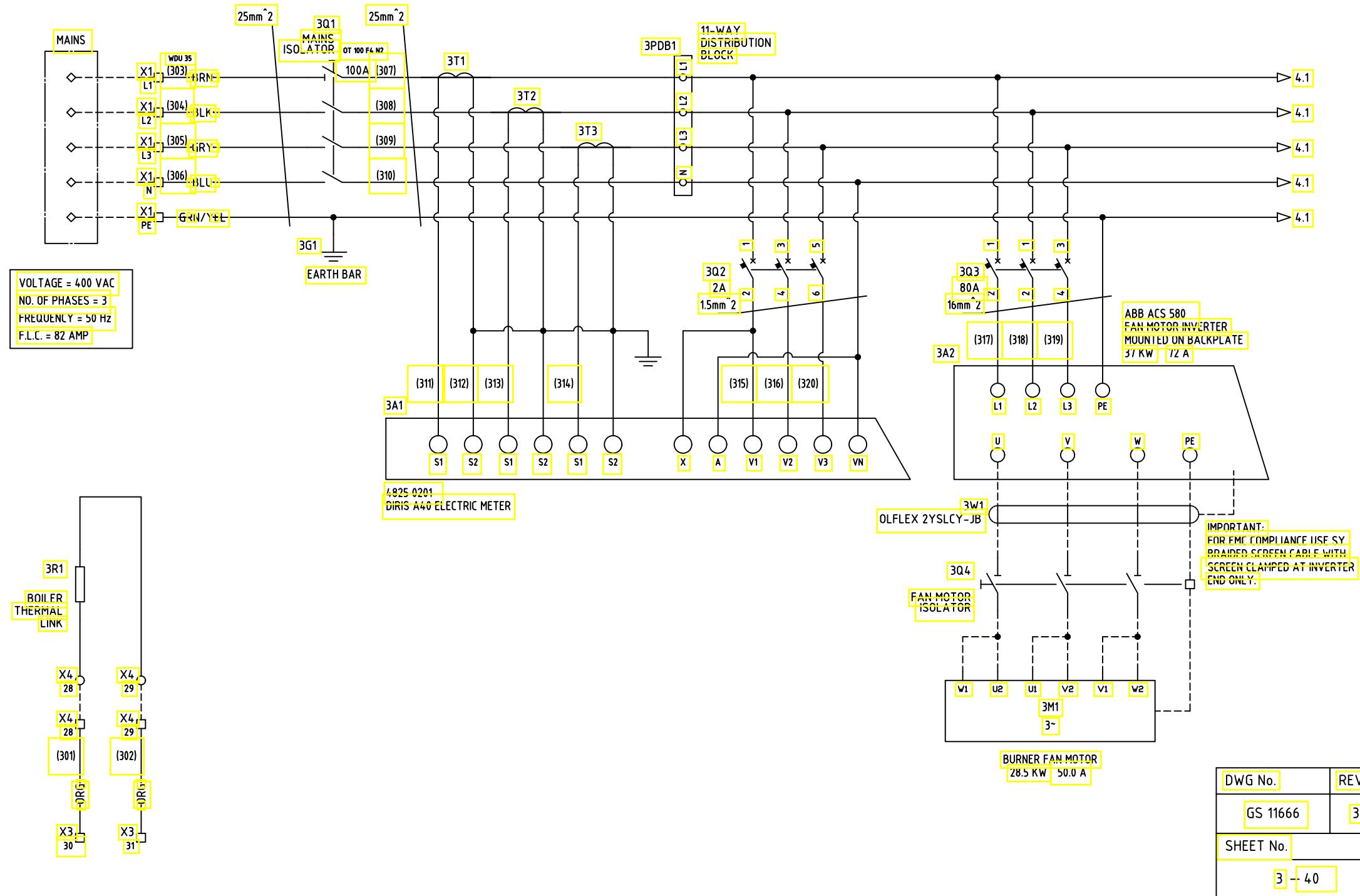
THE LINKS SHOULD BE SET AS FOLLOWS:

SUPPLY VOLTAGE	LK1 AND LK3
JP1	IN
JP2	-
JP3	-
JP4	+30V
JP5	-
JP6	IN

FIT 630mA FUSE

DWG No.	REV.
GS 11666	3
SHEET No.	
2 - 40	

1      2      3      4      5      6      7      8



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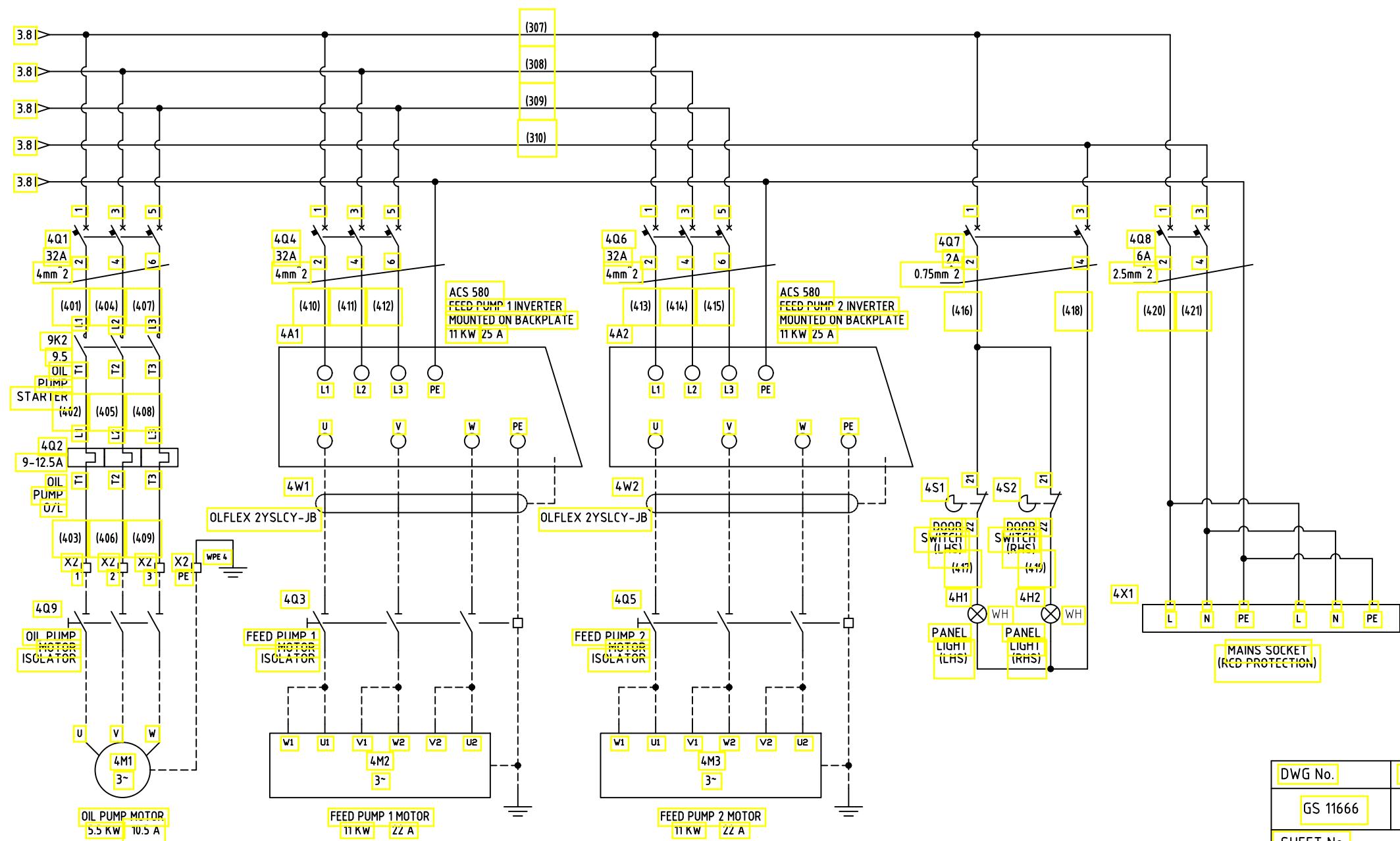
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DWG No.	REV.
GS 11666	3
SHEET No.	

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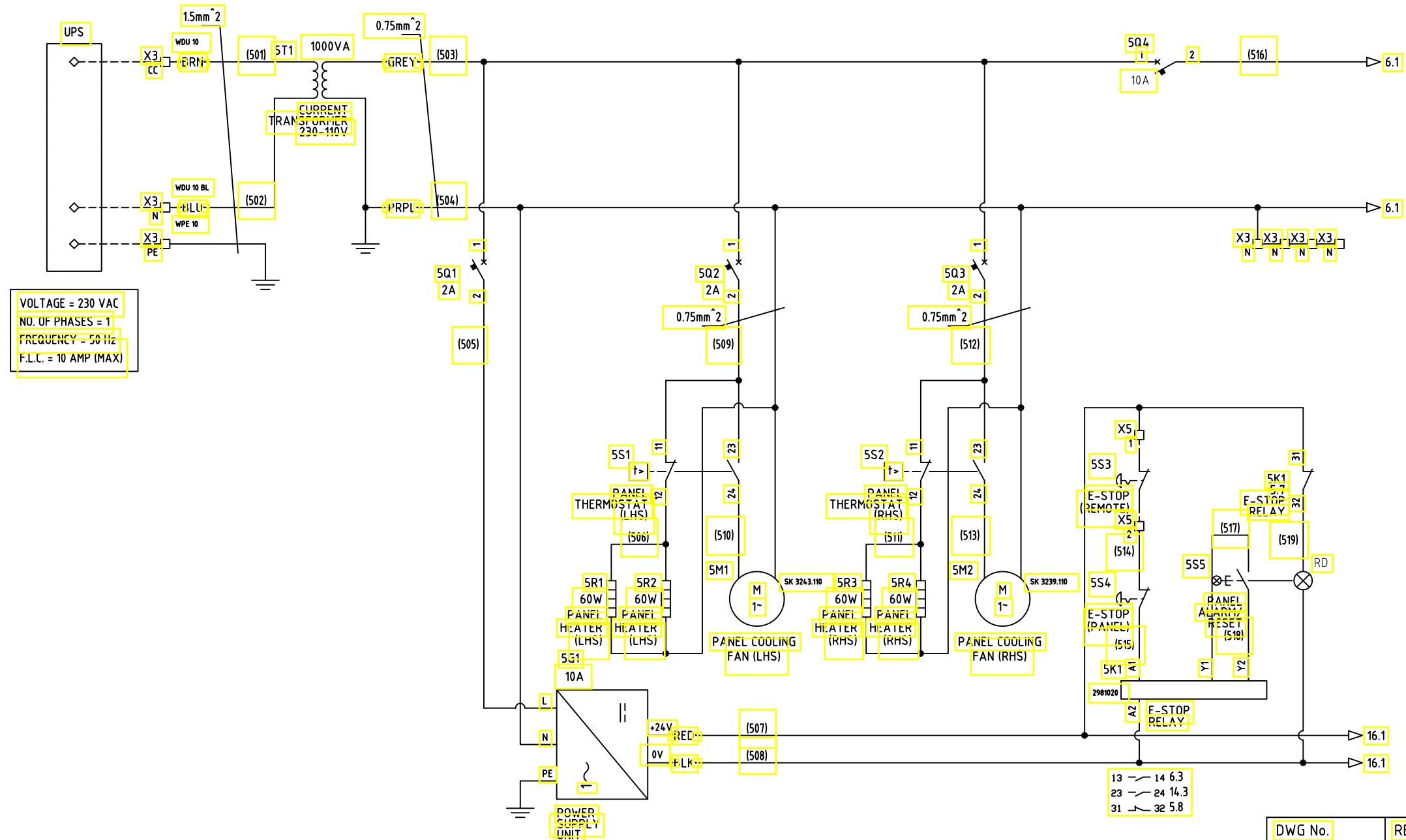
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DWG No.	REV.
GS 11666	3
SHEET No.	
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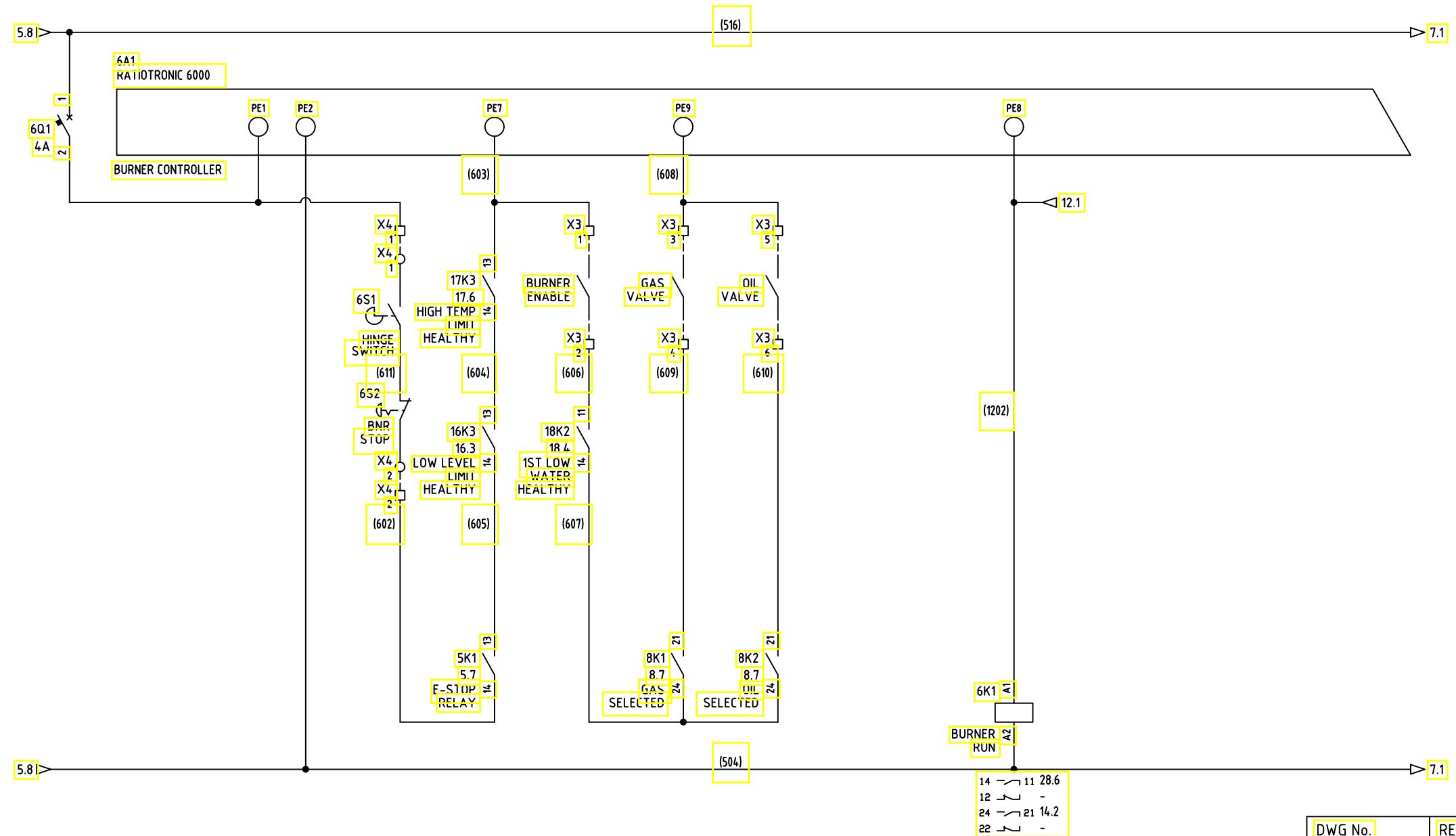
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DWG No.	REV.
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SHEET No.	
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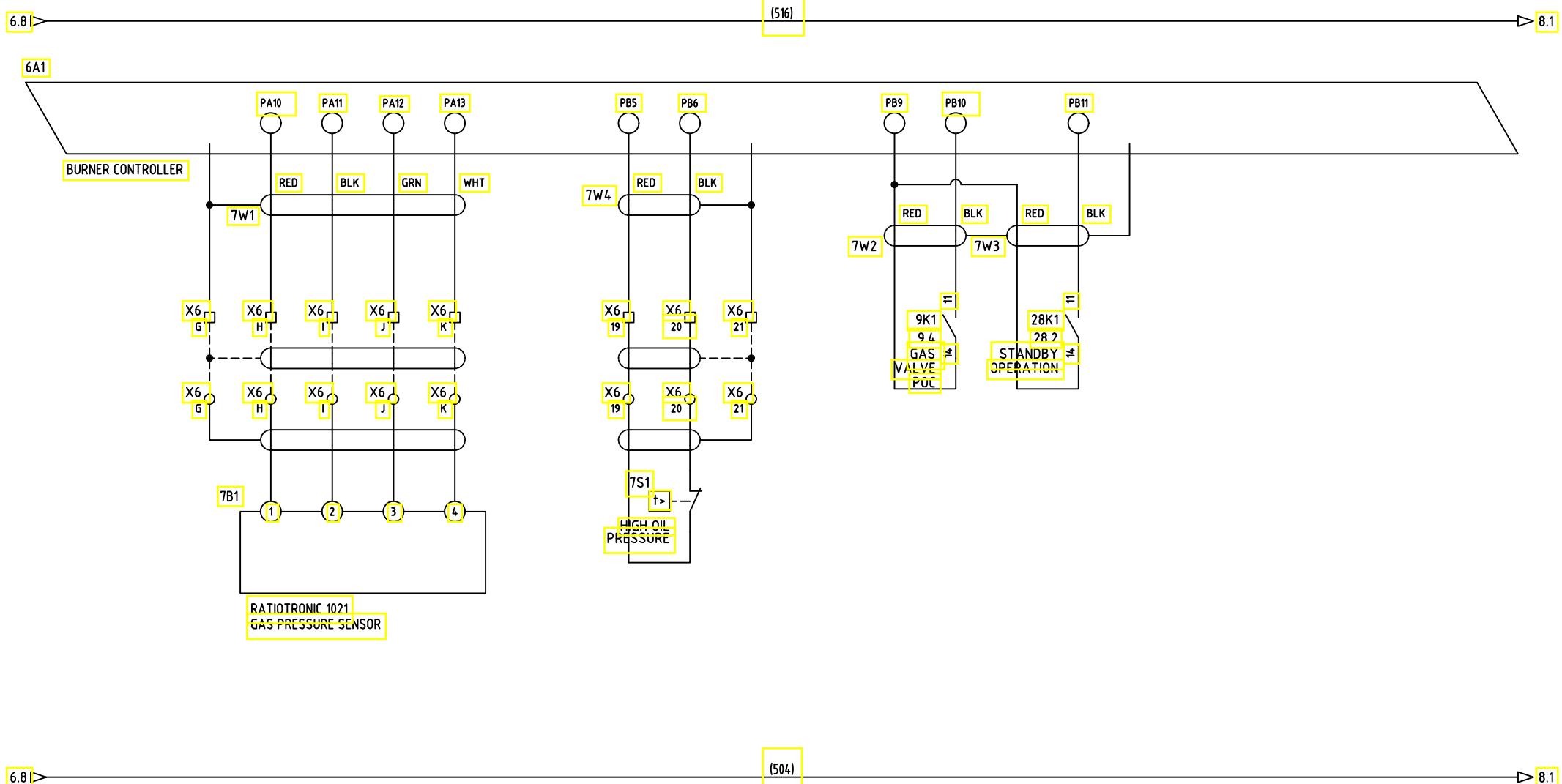
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DWG No.	REV.
GS 11666	3
SHEET No.	
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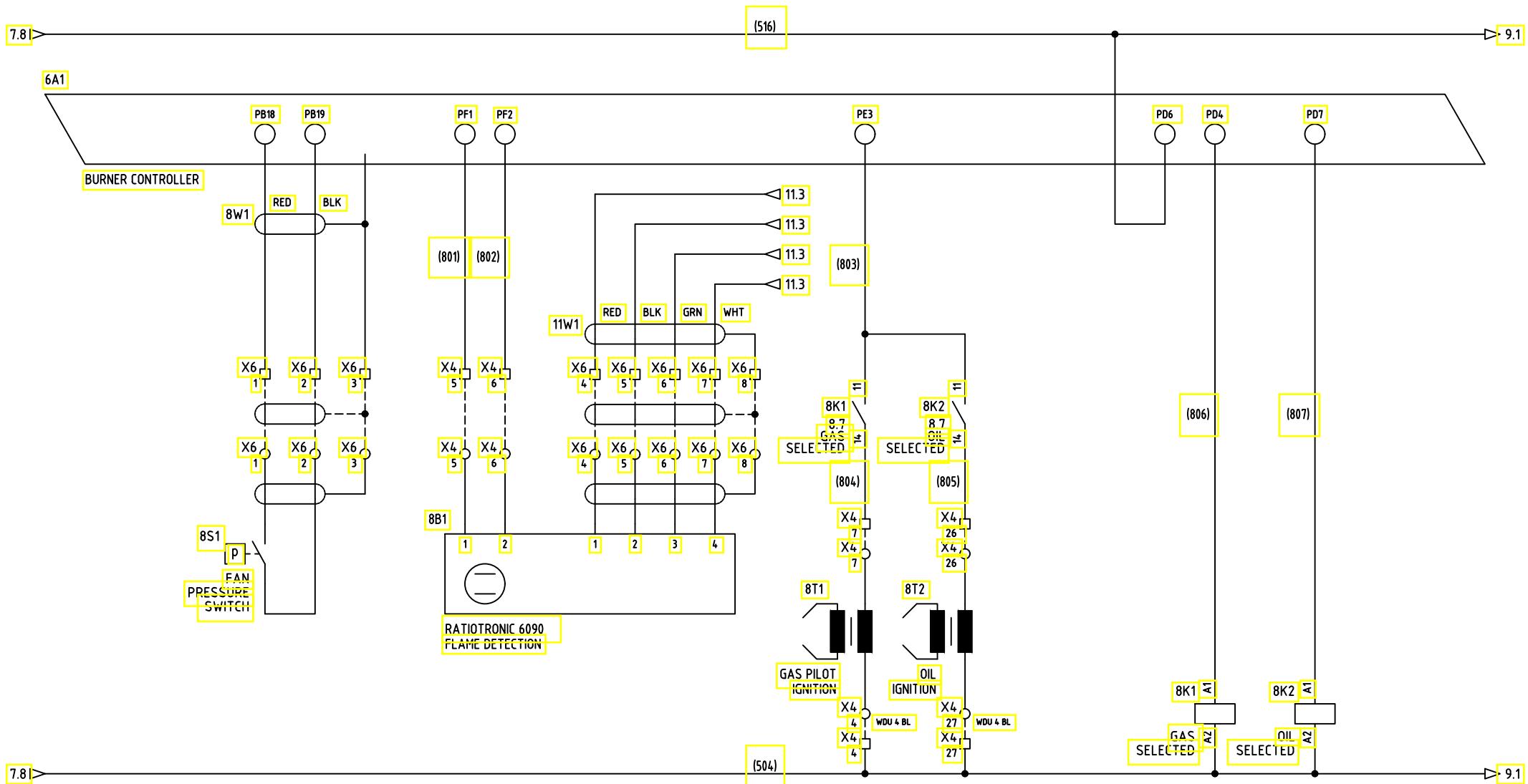
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14	—	11	8.5	14	—	11	8.6
12	—	—	—	12	—	—	—
24	—	21	6.4	24	—	21	6.5
22	—	—	—	22	—	—	—
34	—	31	—	34	—	31	—
32	—	—	—	32	—	—	—
44	—	41	—	44	—	41	—
42	—	—	—	42	—	—	—

DWG No.	REV.
GS 11666	3
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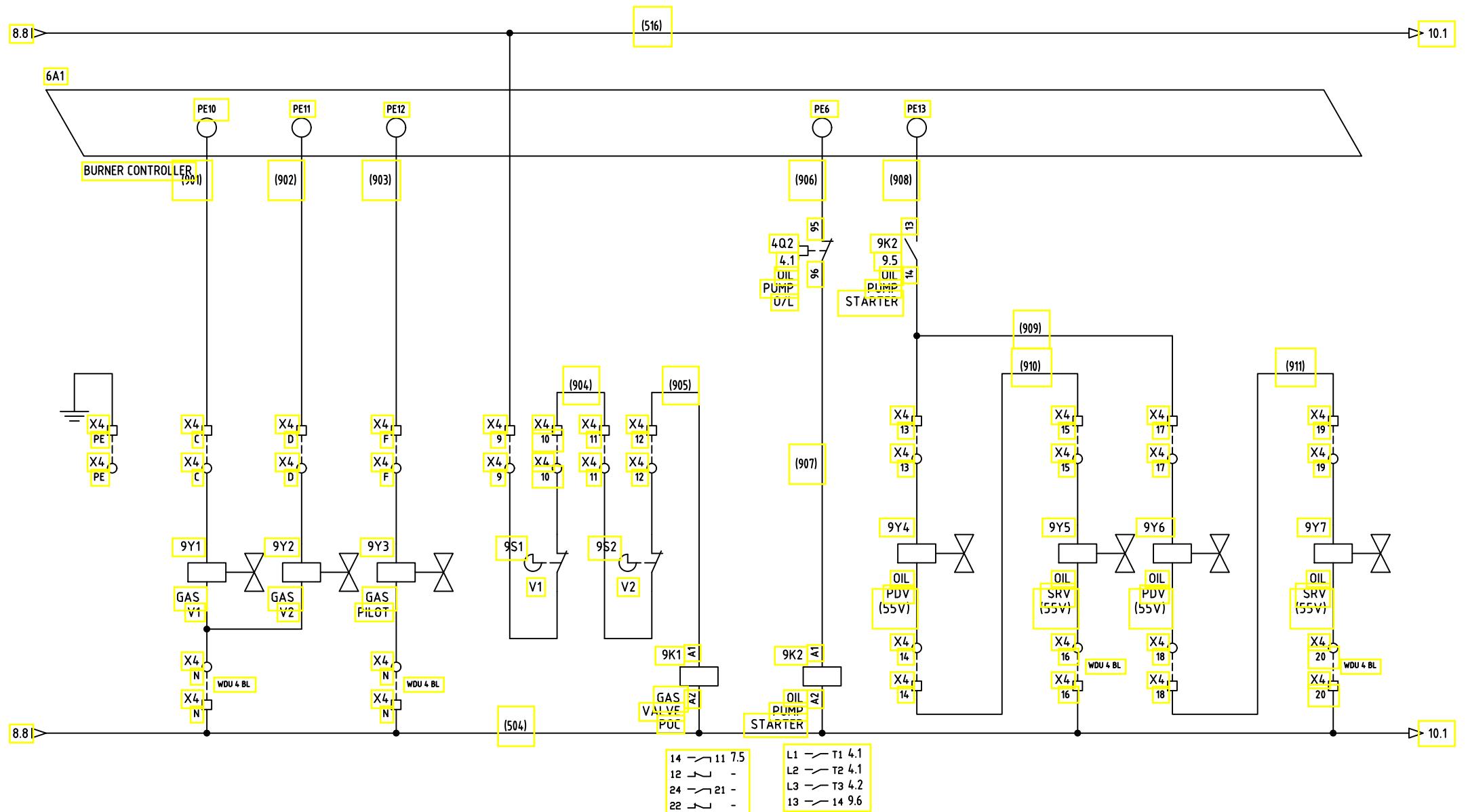
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14	-	11	7.5	L1	-	T1	4
12	—	—	-	L2	-	T2	4
24	-	21	-	L3	-	T3	4
22	—	—	-	13	-	14	9

DWG No.	REV.
GS 11666	3
SHEET No.	
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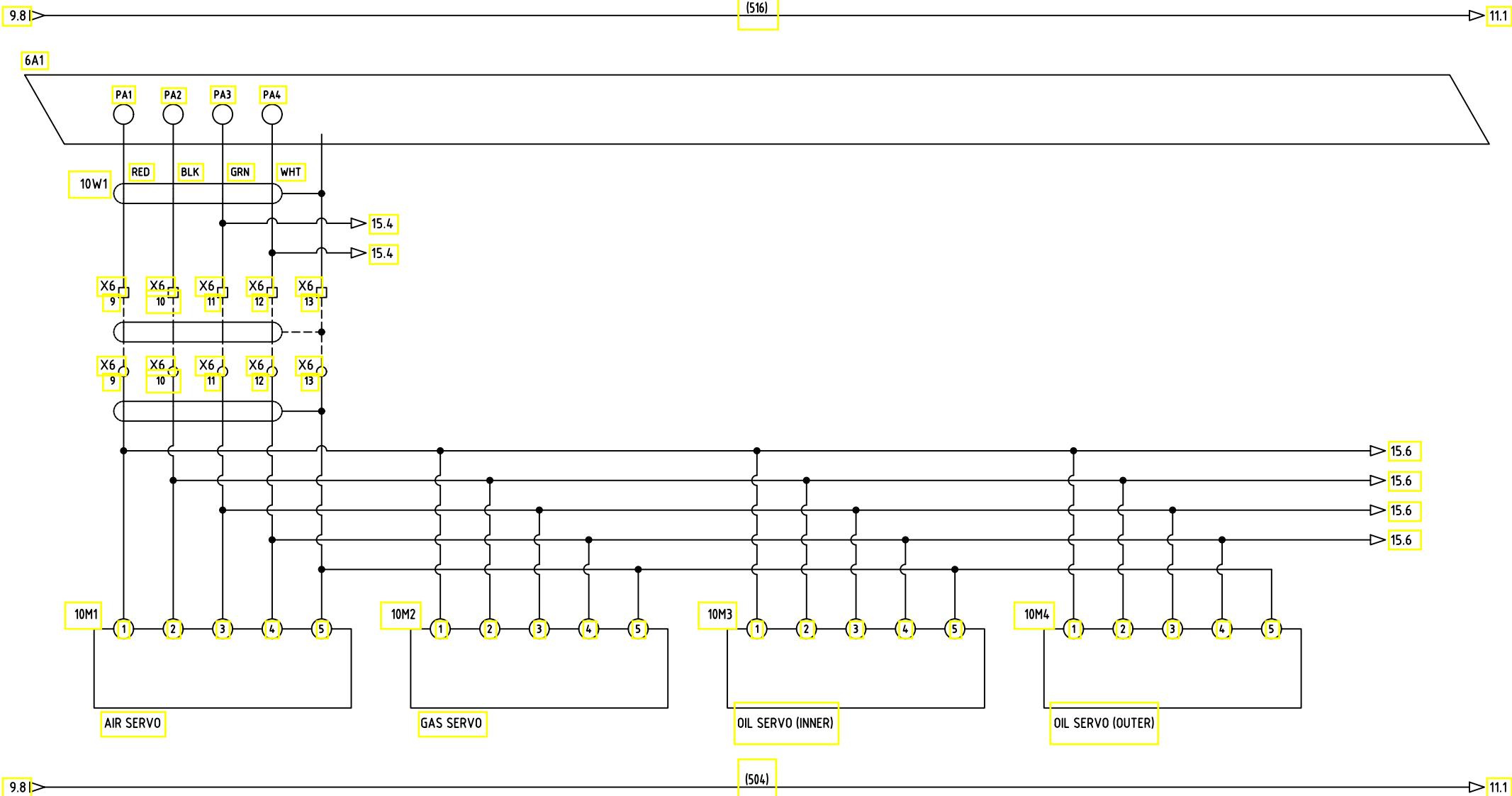
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DWG No.	REV.
GS 11666	3
SHEET No.	
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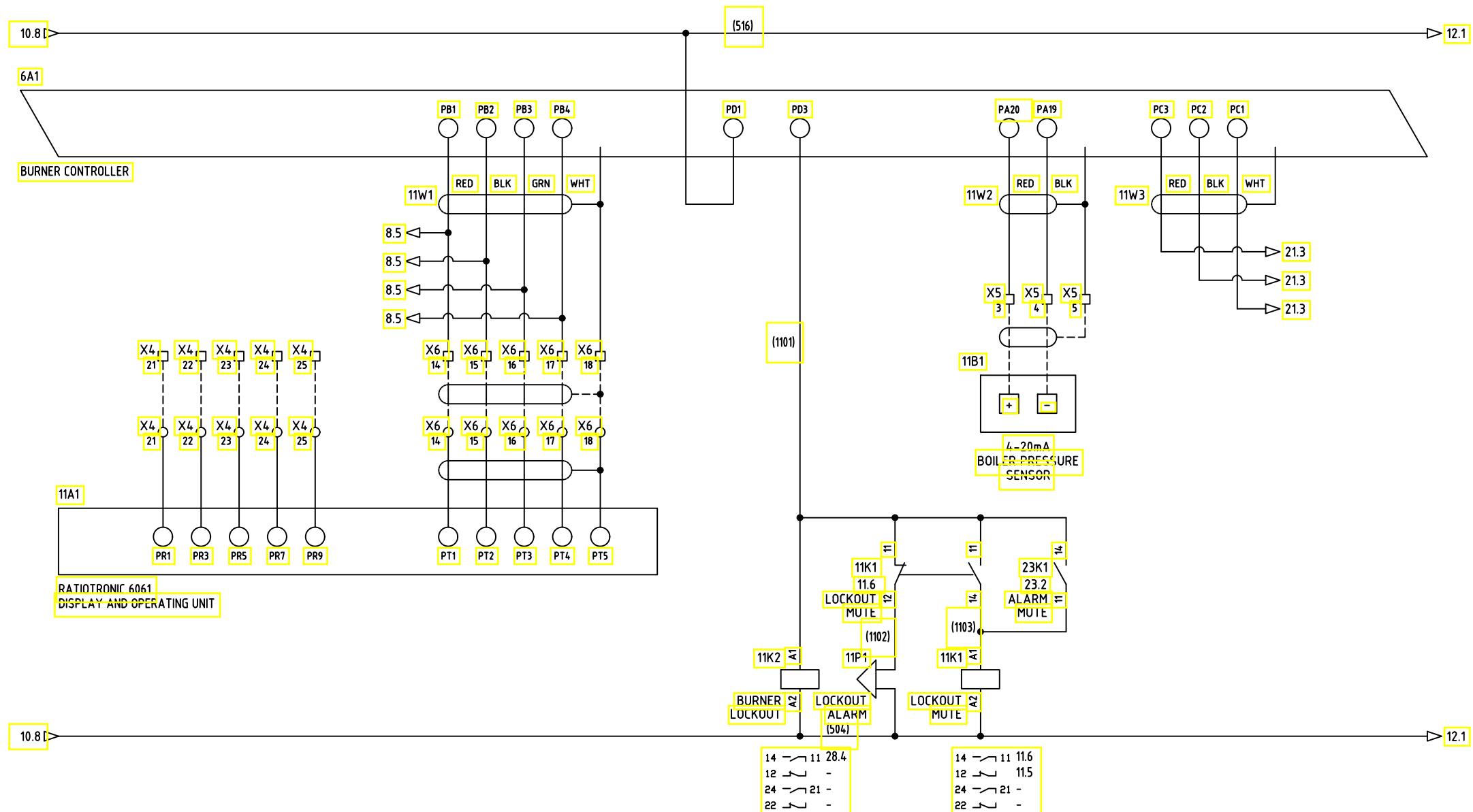
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GS 11666	3
SHEET No.	
11 - 40	

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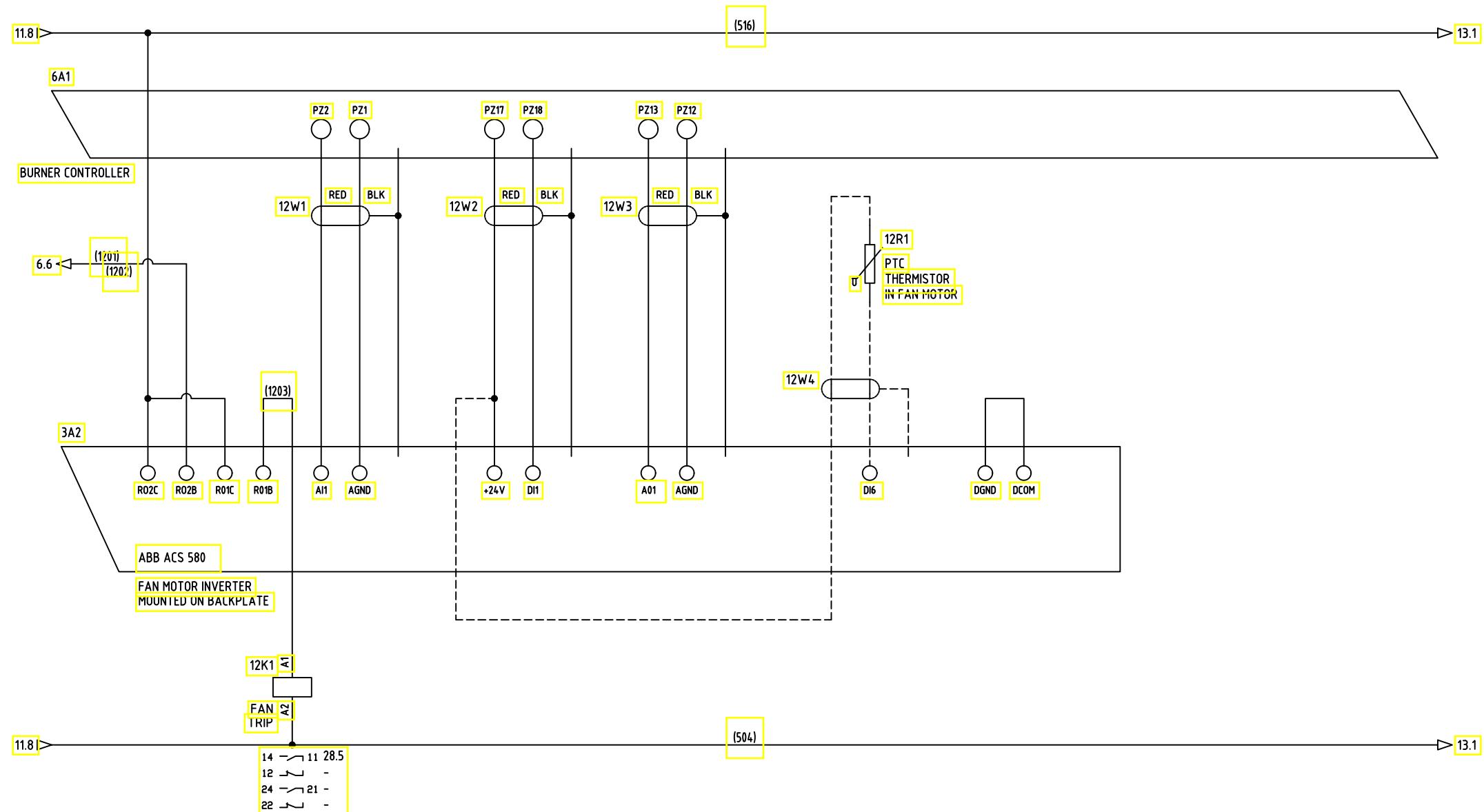
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GS 11666	3
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12 - 40	

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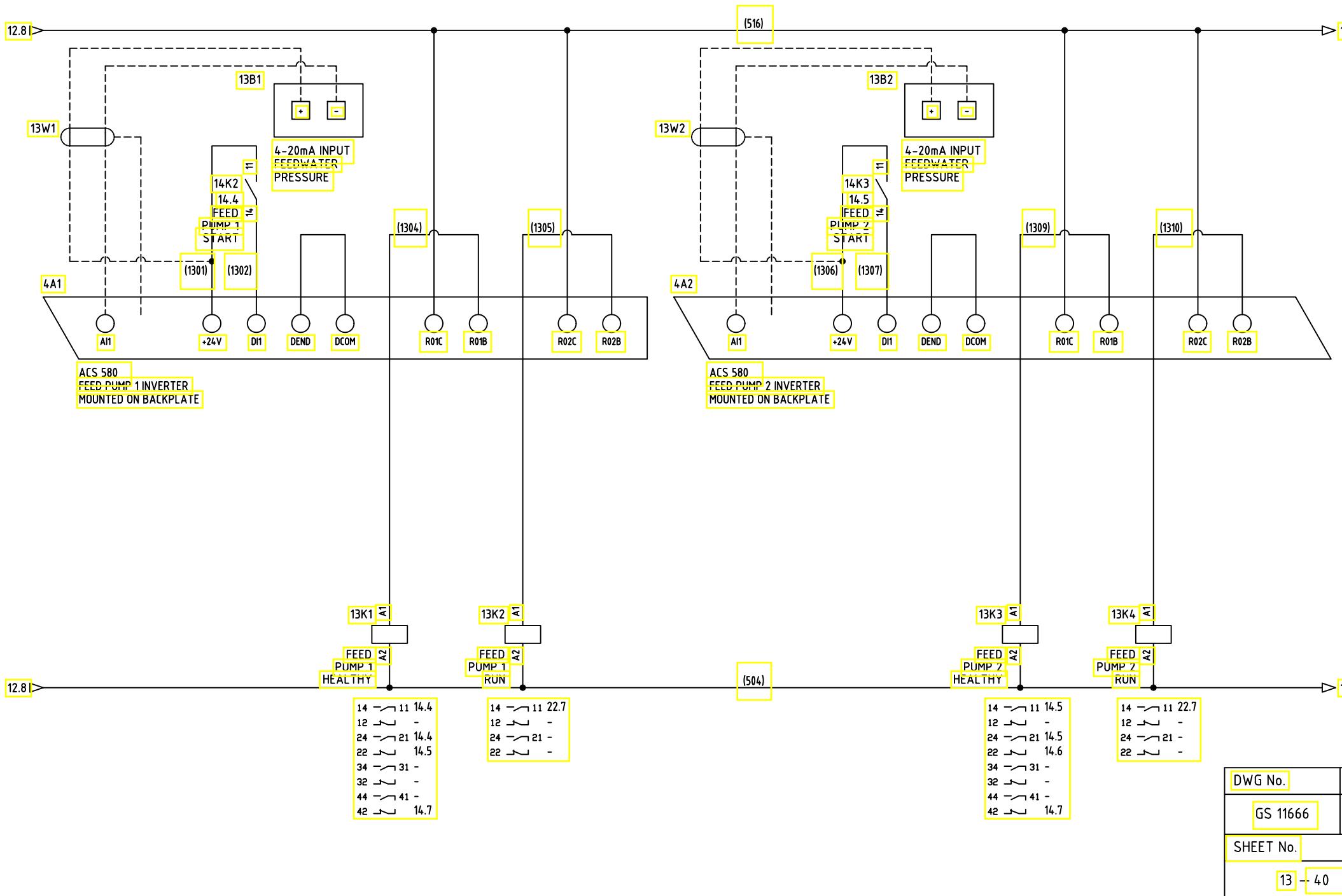
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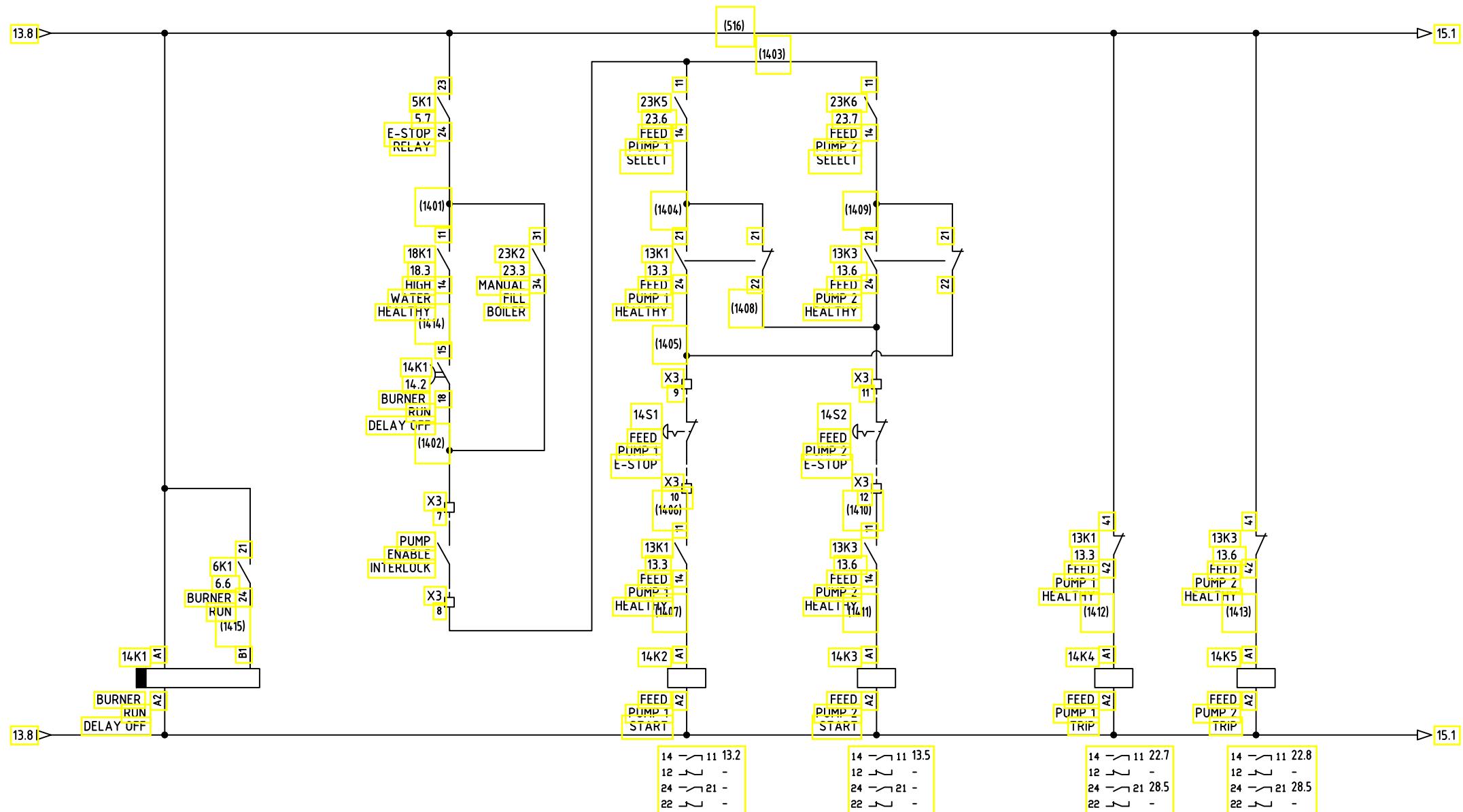
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SHEET No.	
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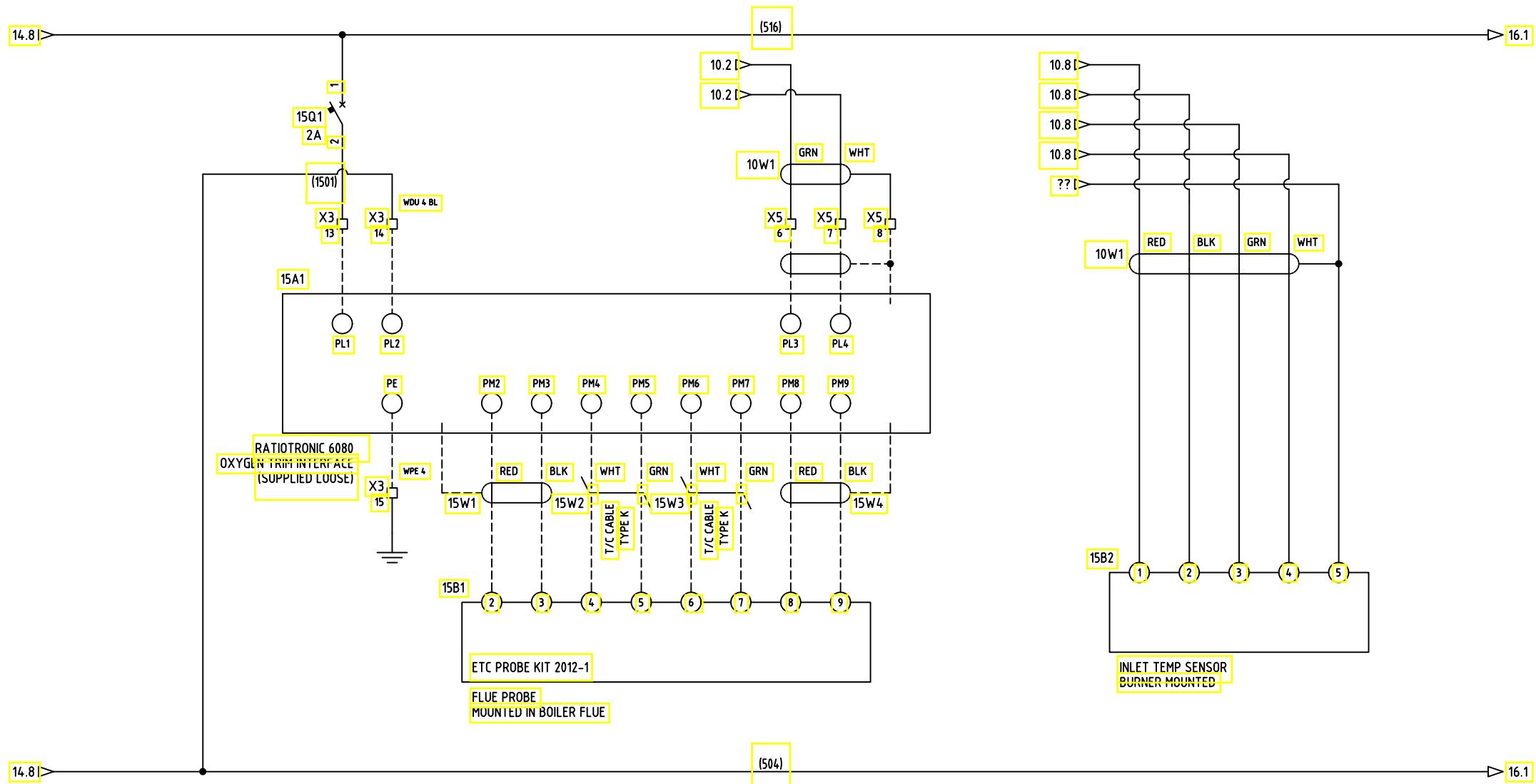
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GS 11666	3
SHEET No.	
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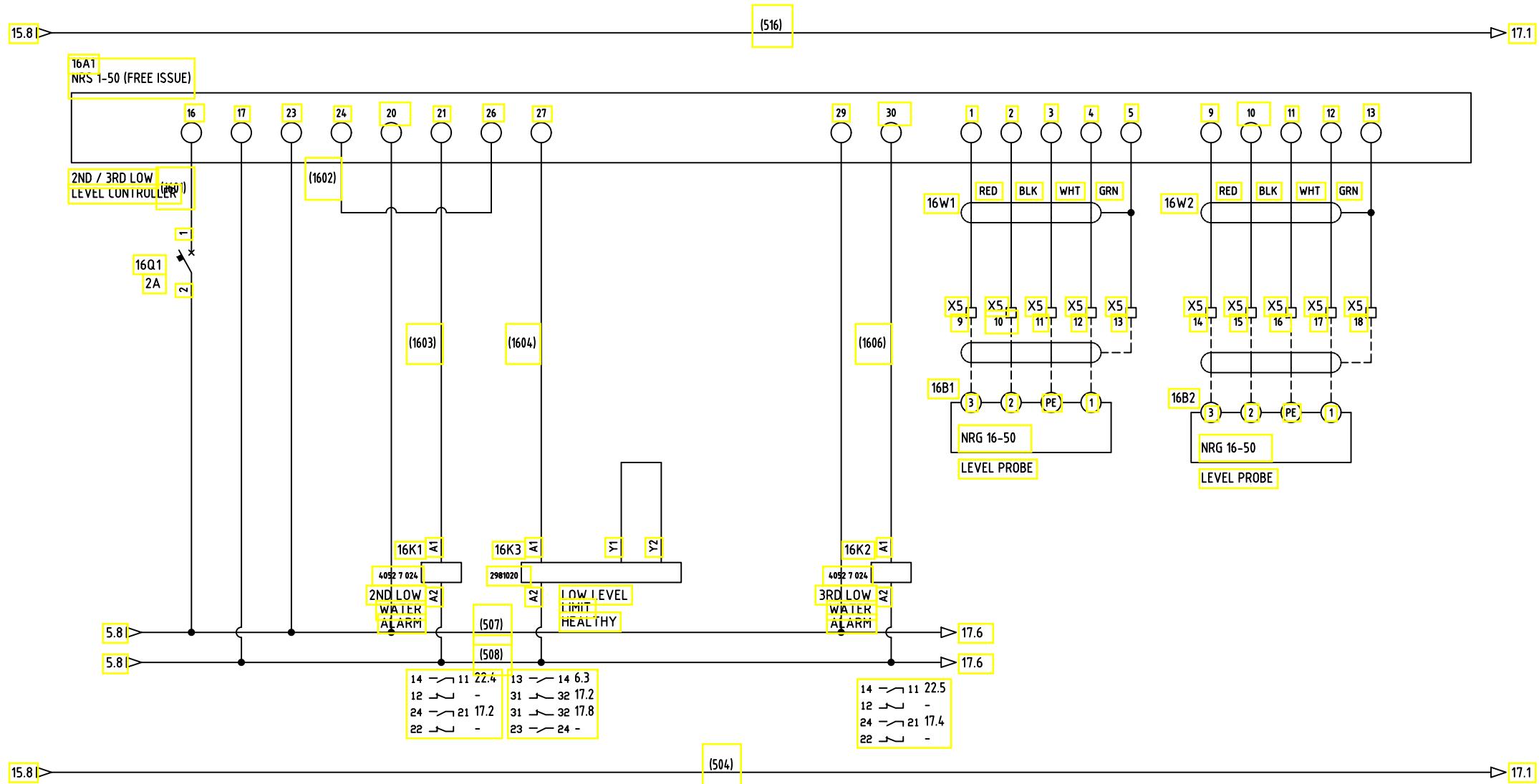
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DWG No.	REV.
GS 11666	3
SHEET No.	
16 - 40	

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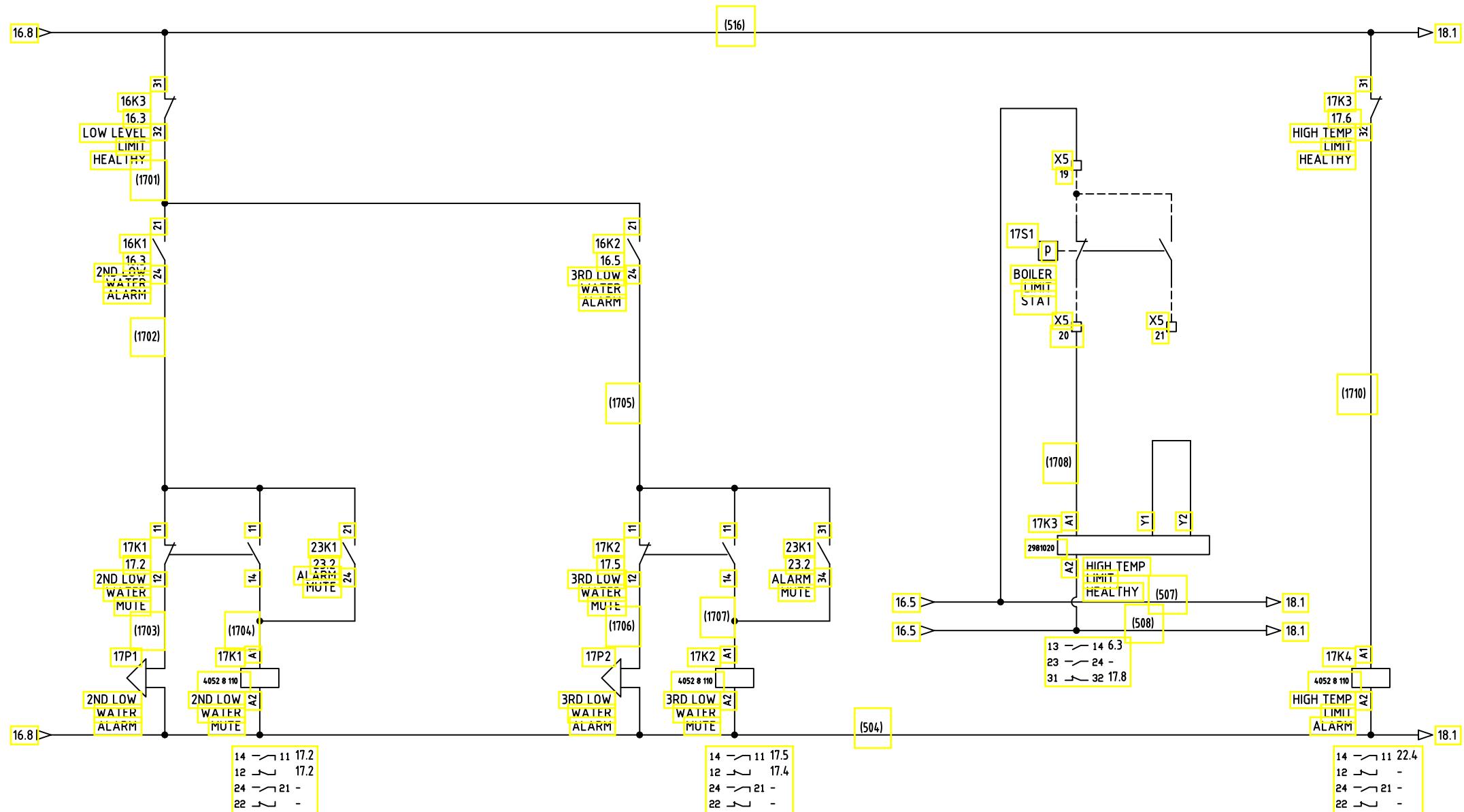
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DWG No.	REV.
GS 11666	3
SHEET No.	
17 - 40	

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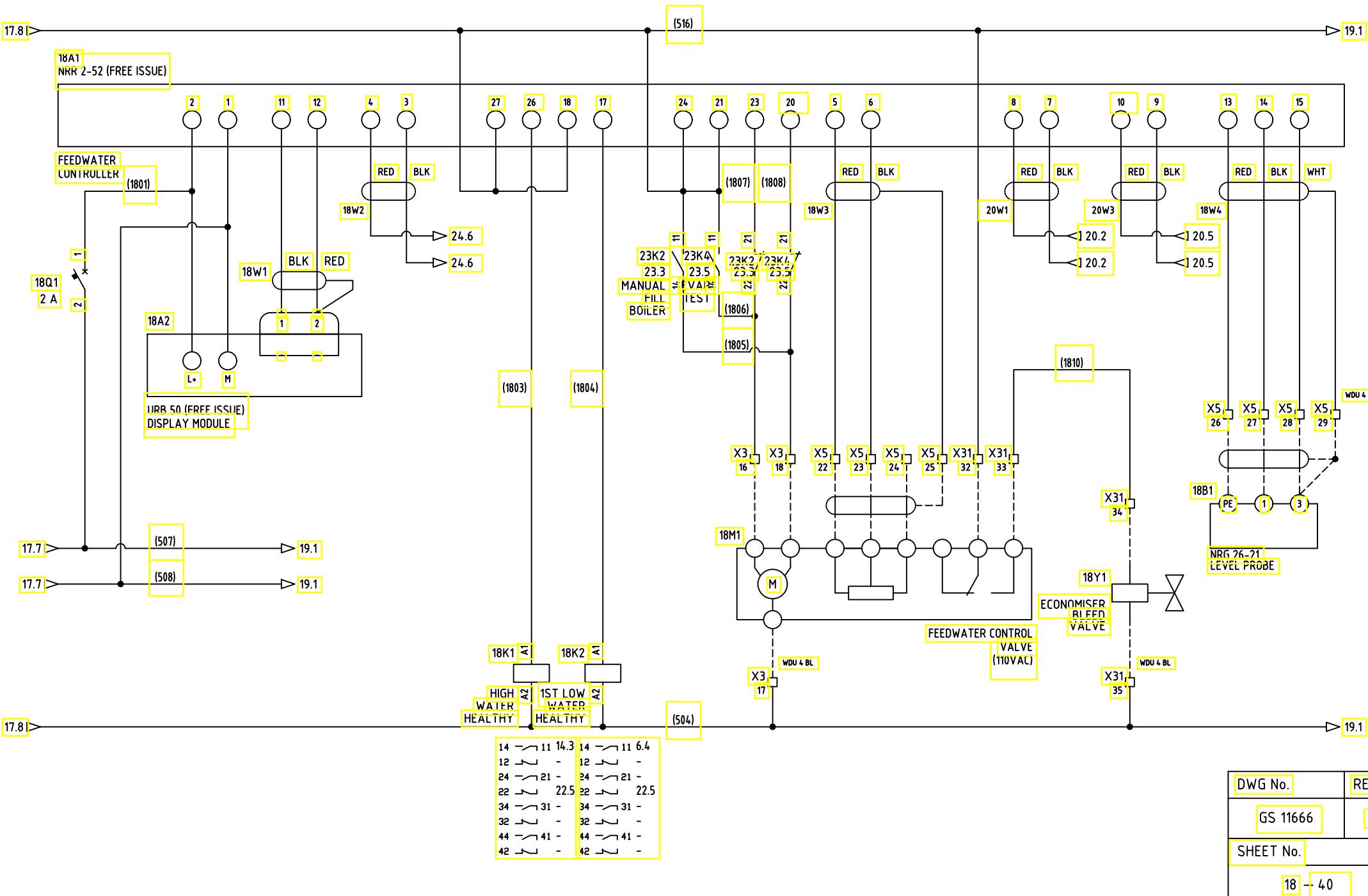
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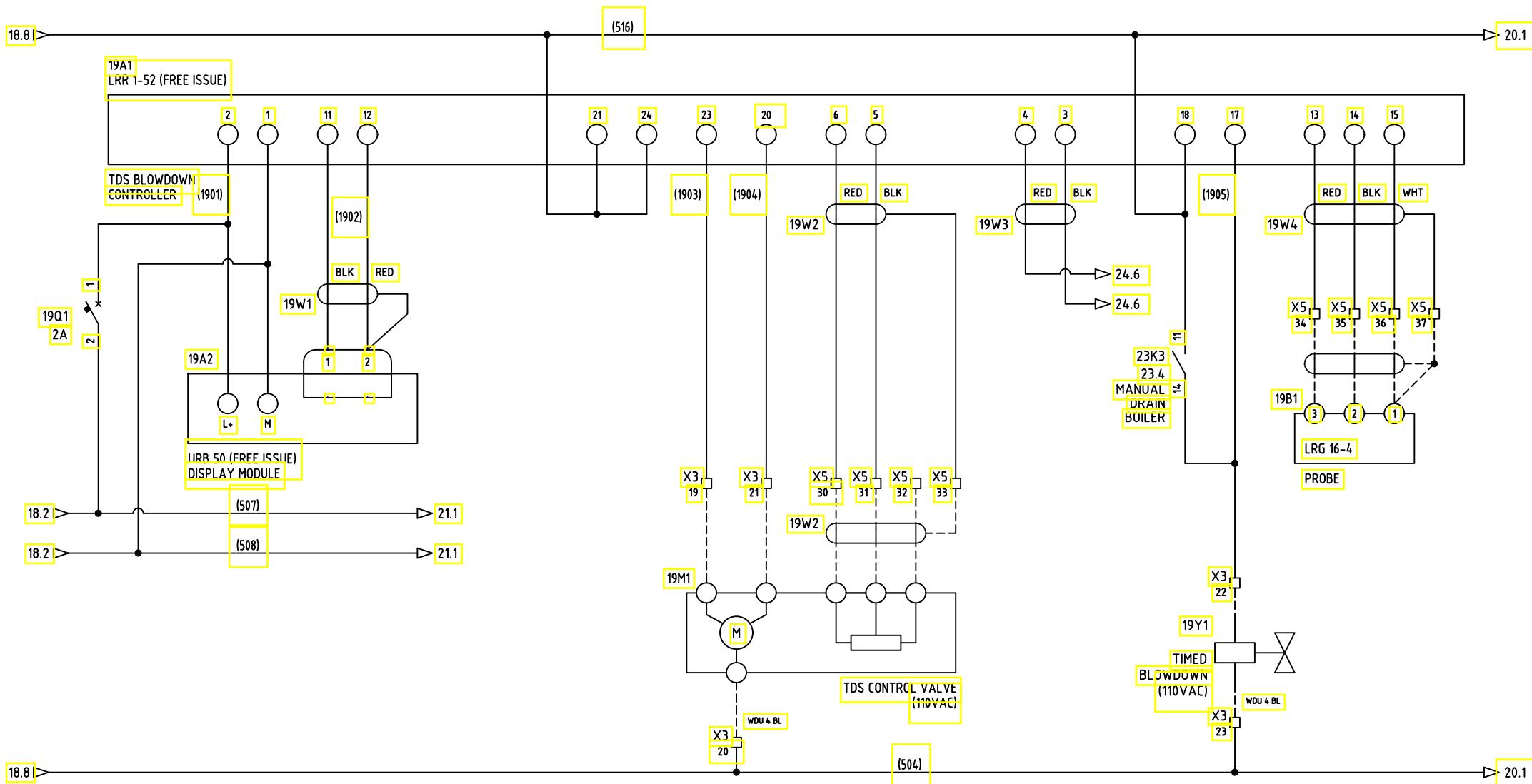
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DWG No.	REV.
GS 11666	3
SHEET No.	
19	- 40

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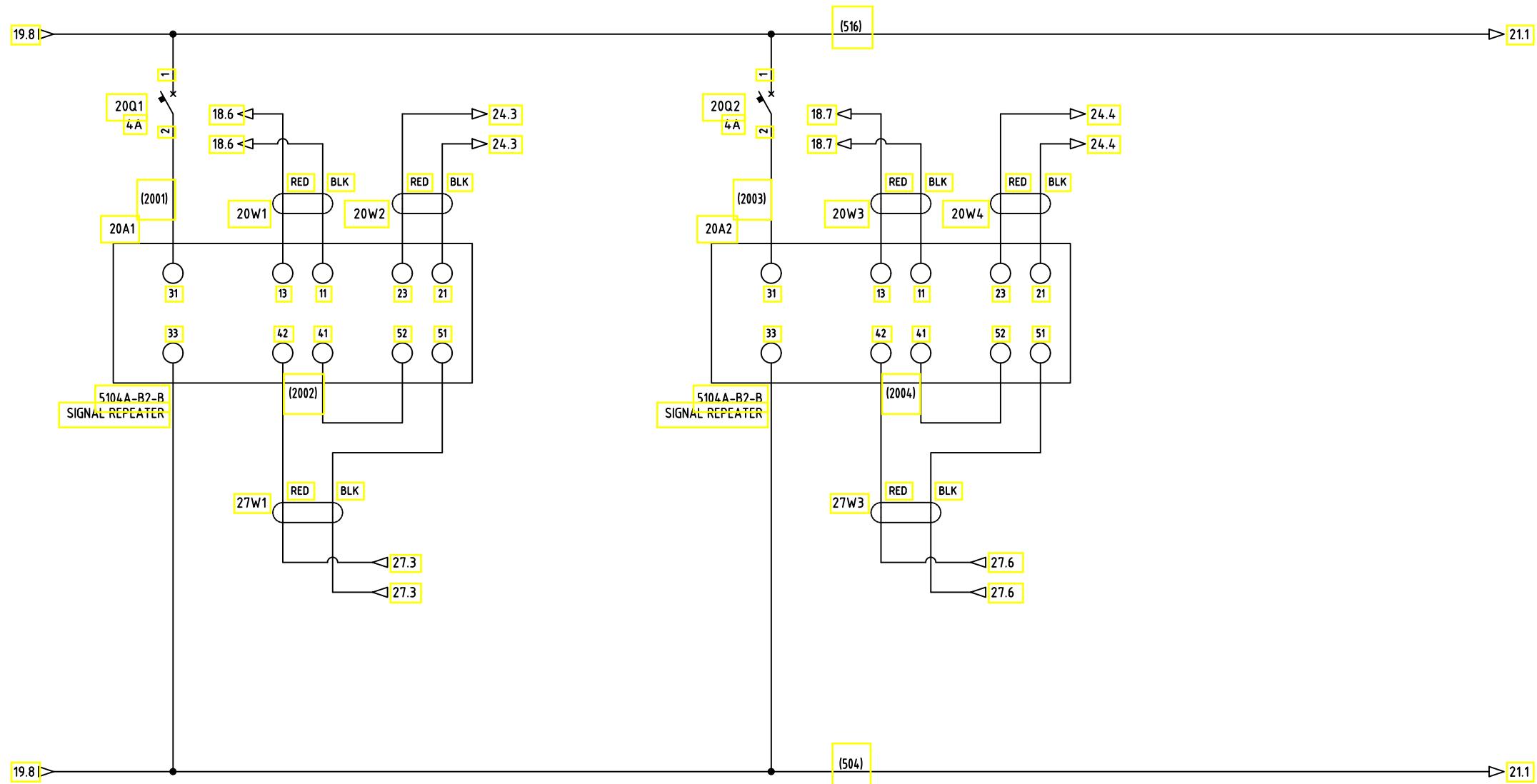
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DWG No.	REV.
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SHEET No.	
20 - 40	

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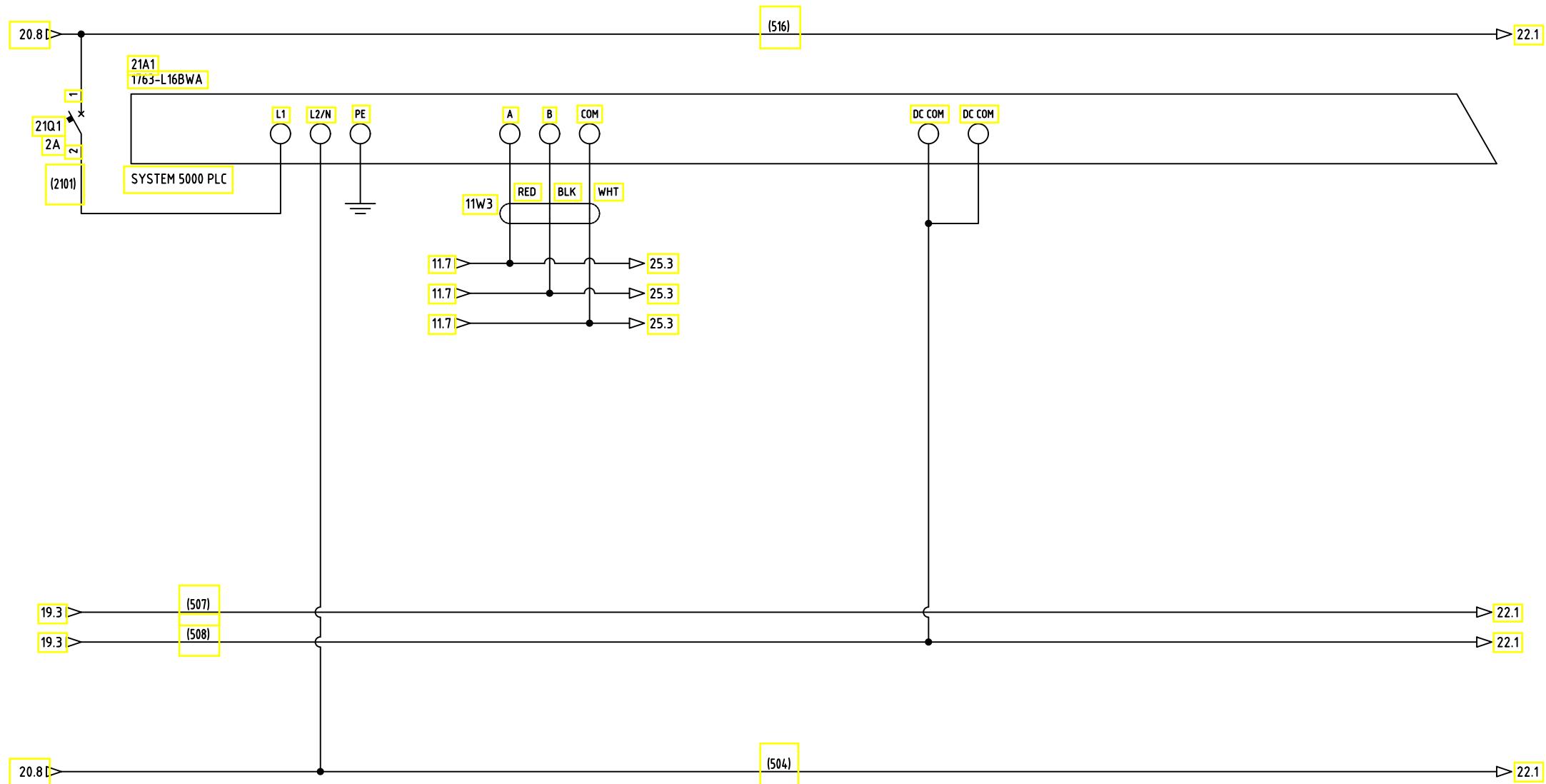
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DWG No.	REV.
GS 11666	3
SHEET No.	
21 - 40	

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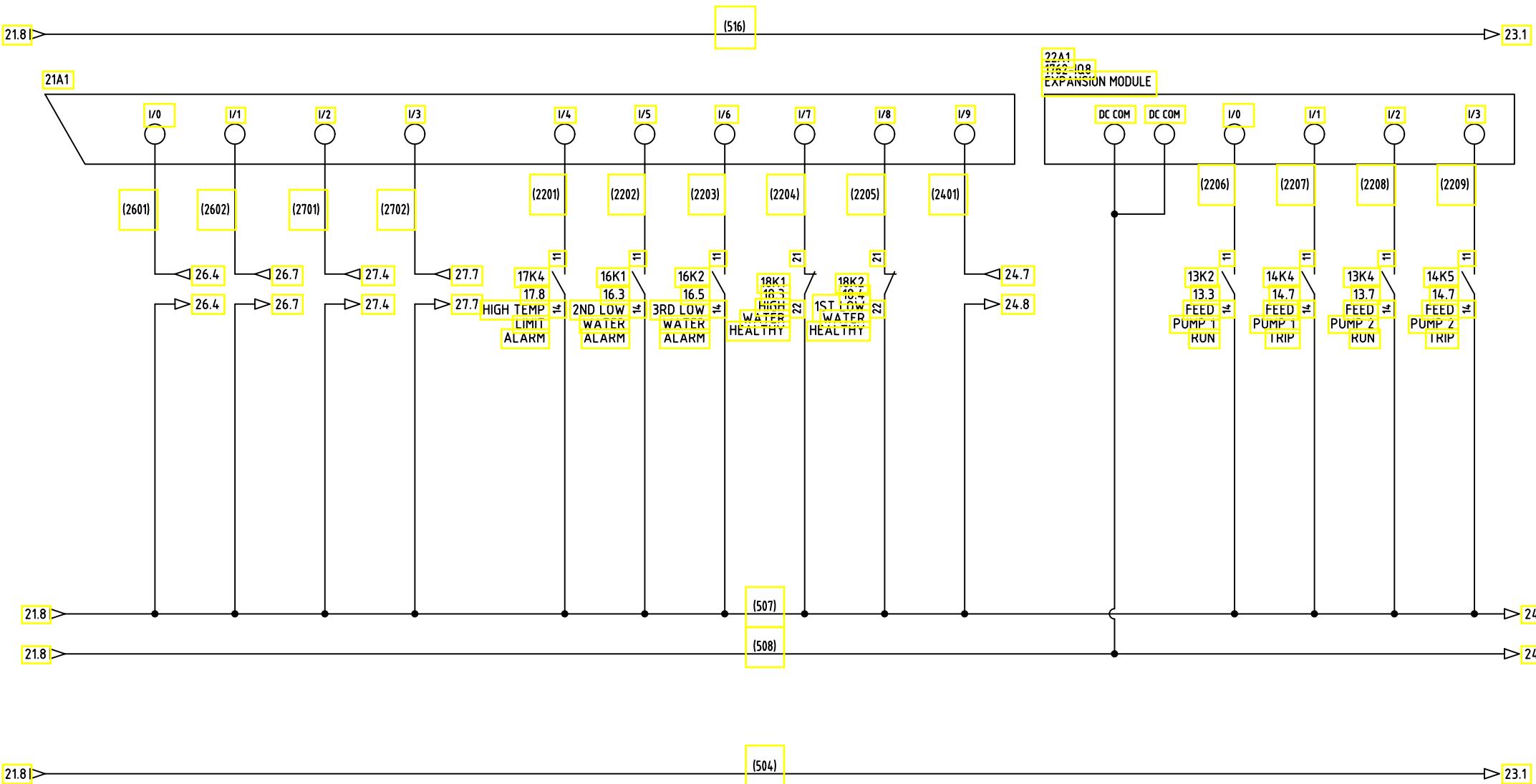
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DWG No.	REV.
GS 11666	3
SHEET No.	
22 - 40	

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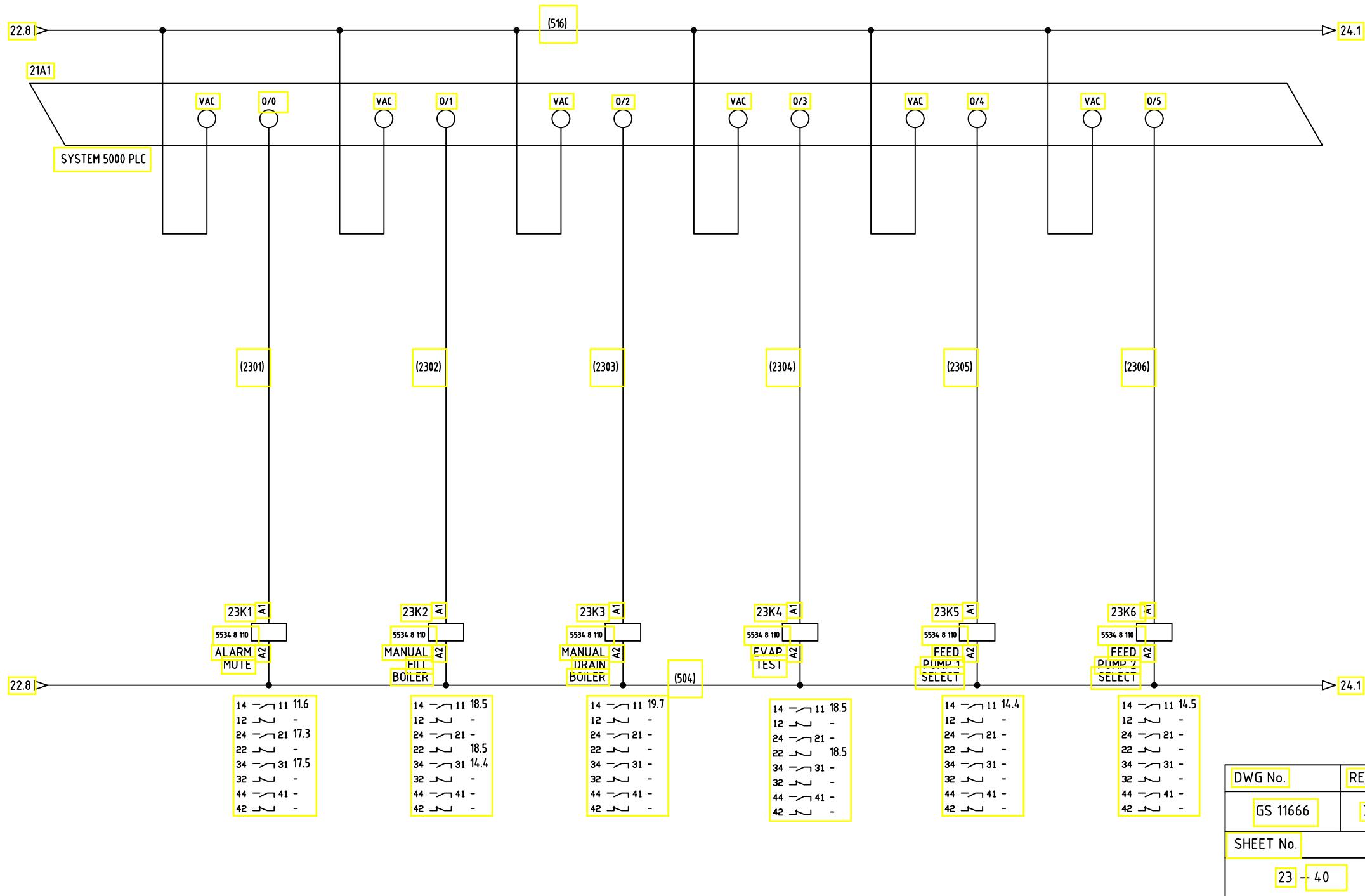
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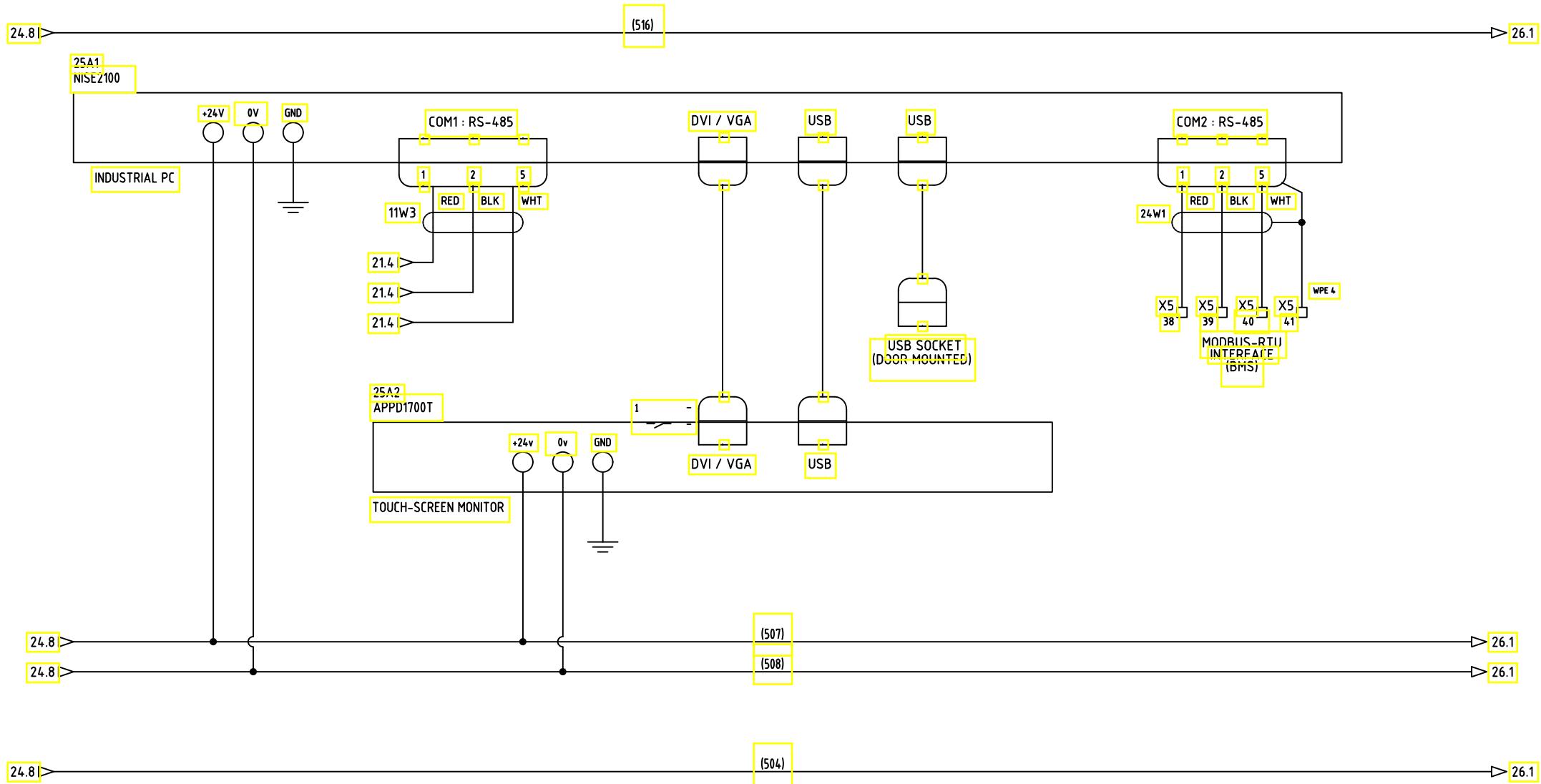
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GS 11666	3
SHEET No.	
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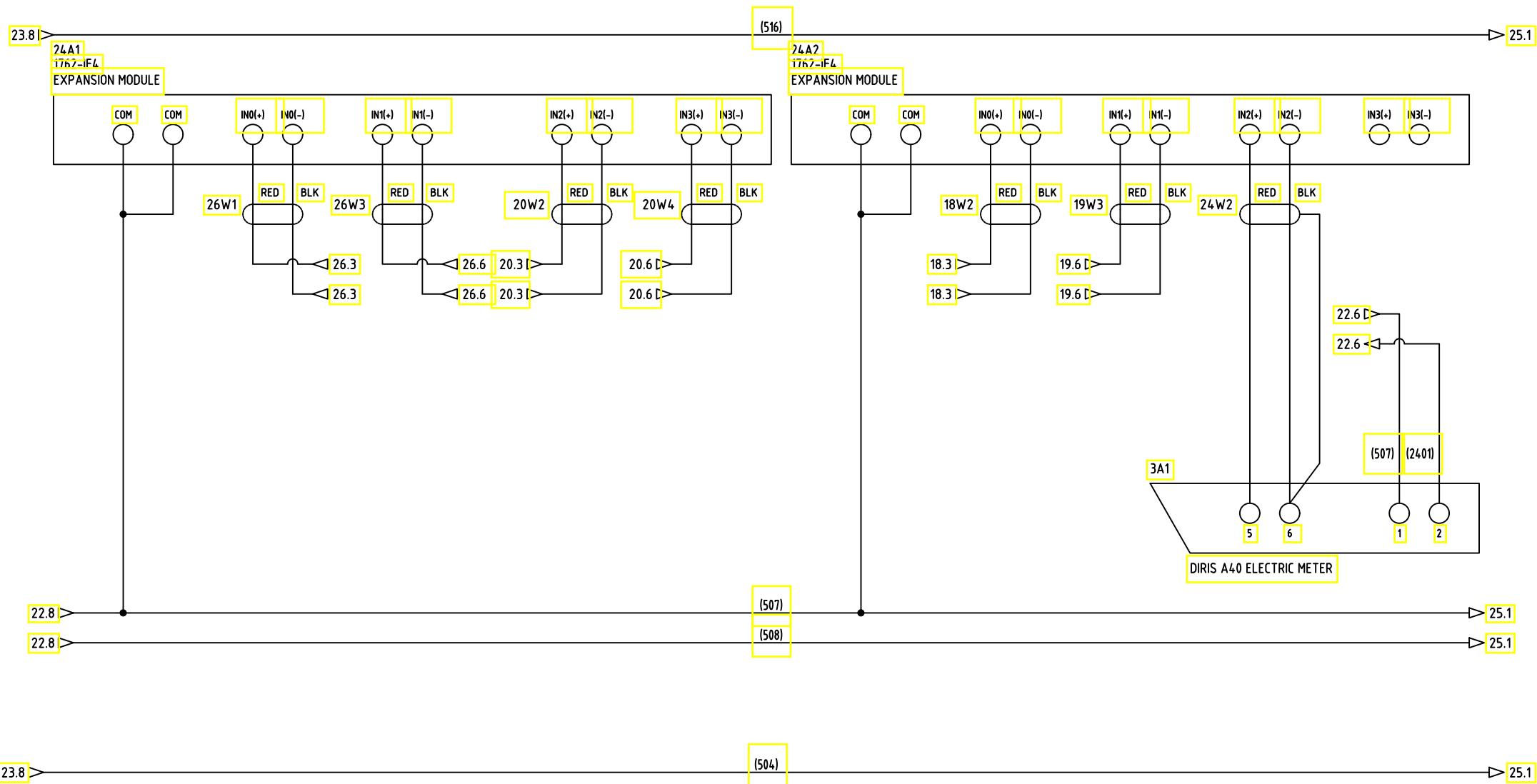
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DWG No.	REV.
GS 11666	3
SHEET No.	
25 - 40	

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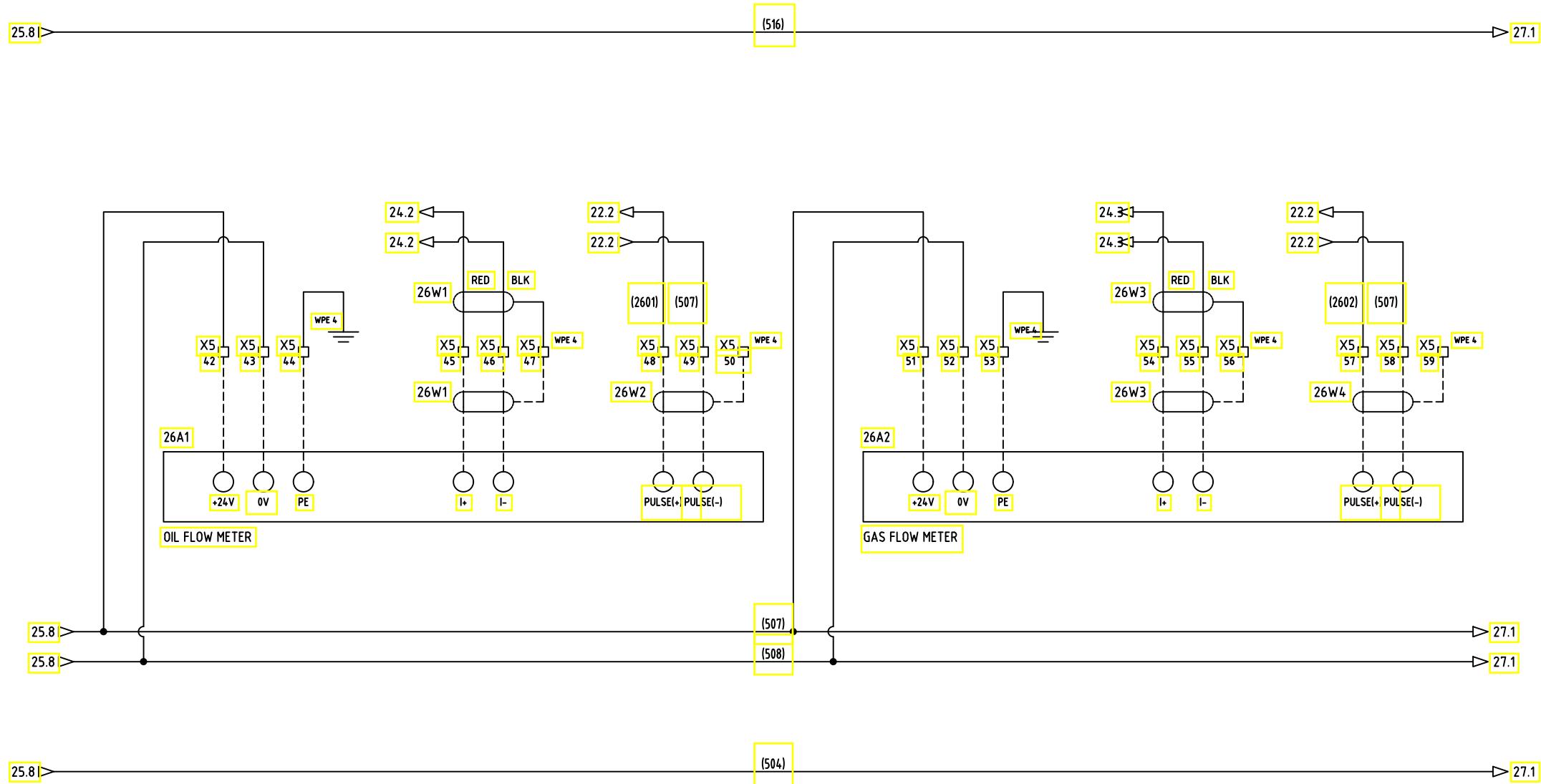
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DWG No.	REV.
GS 11666	3
SHEET No.	
26 - 40	

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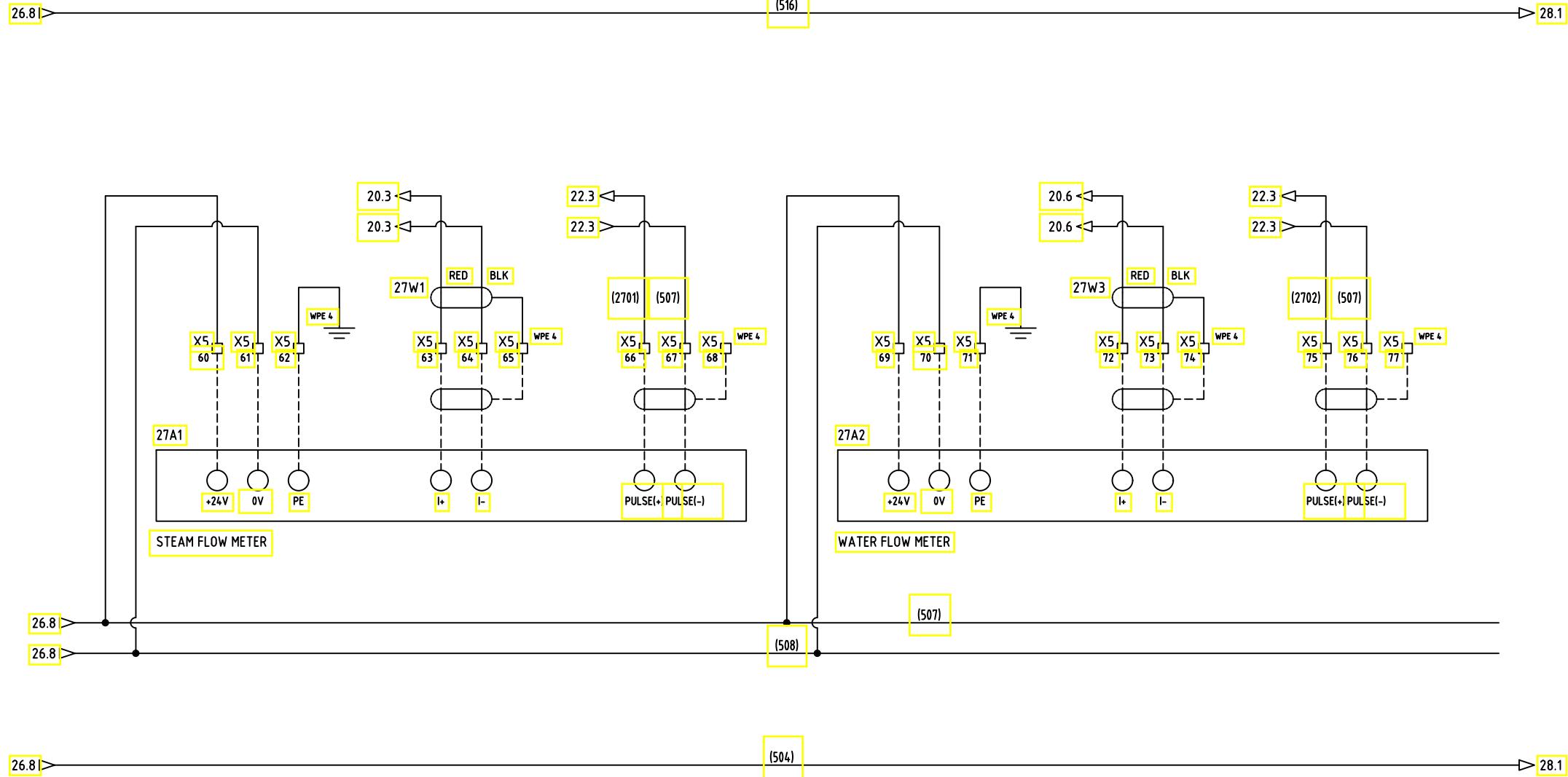
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DWG No.	REV.
GS 11666	3
SHEET No.	
27 - 40	

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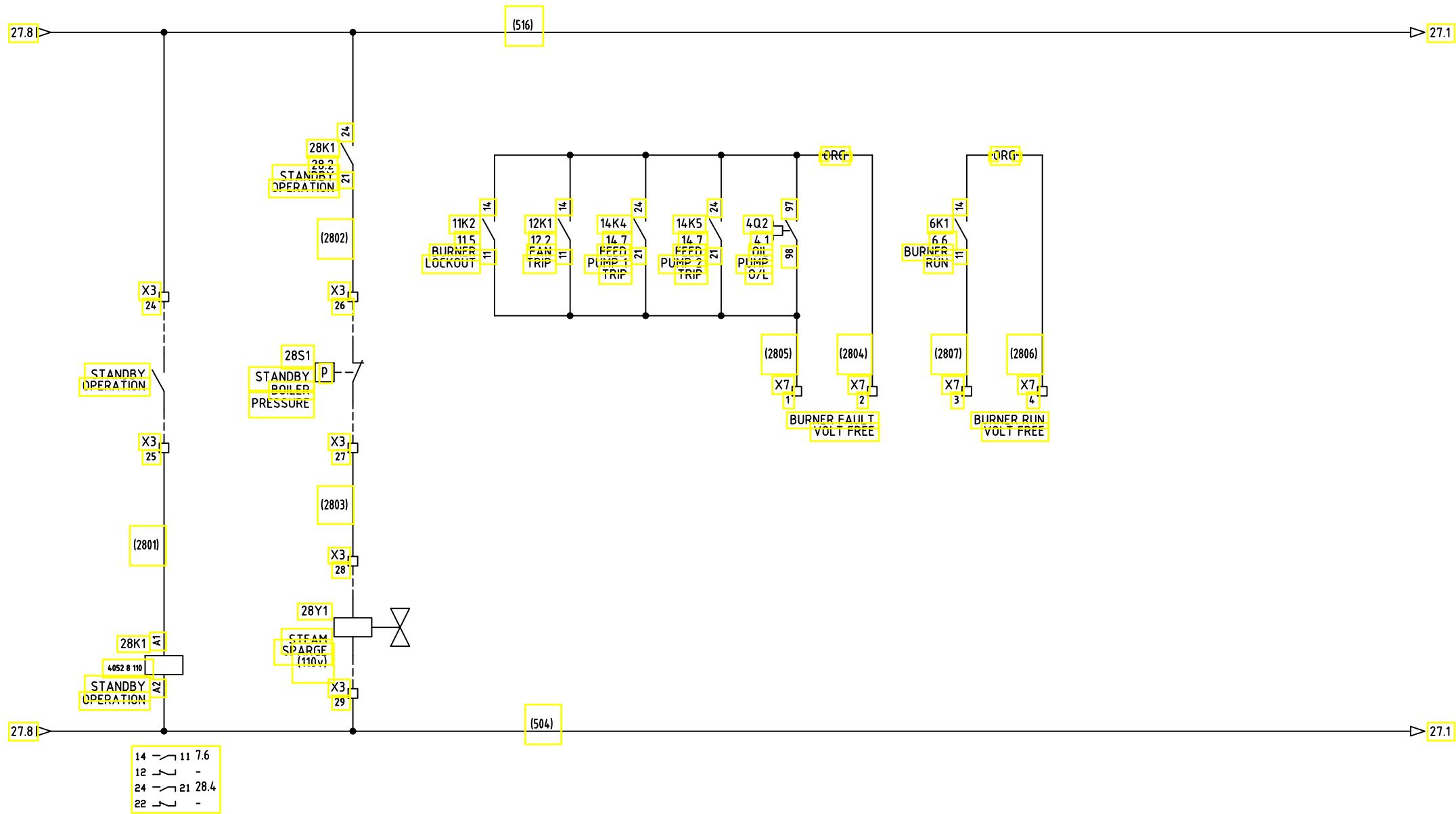
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DWG No.	REV.
GS 11666	3
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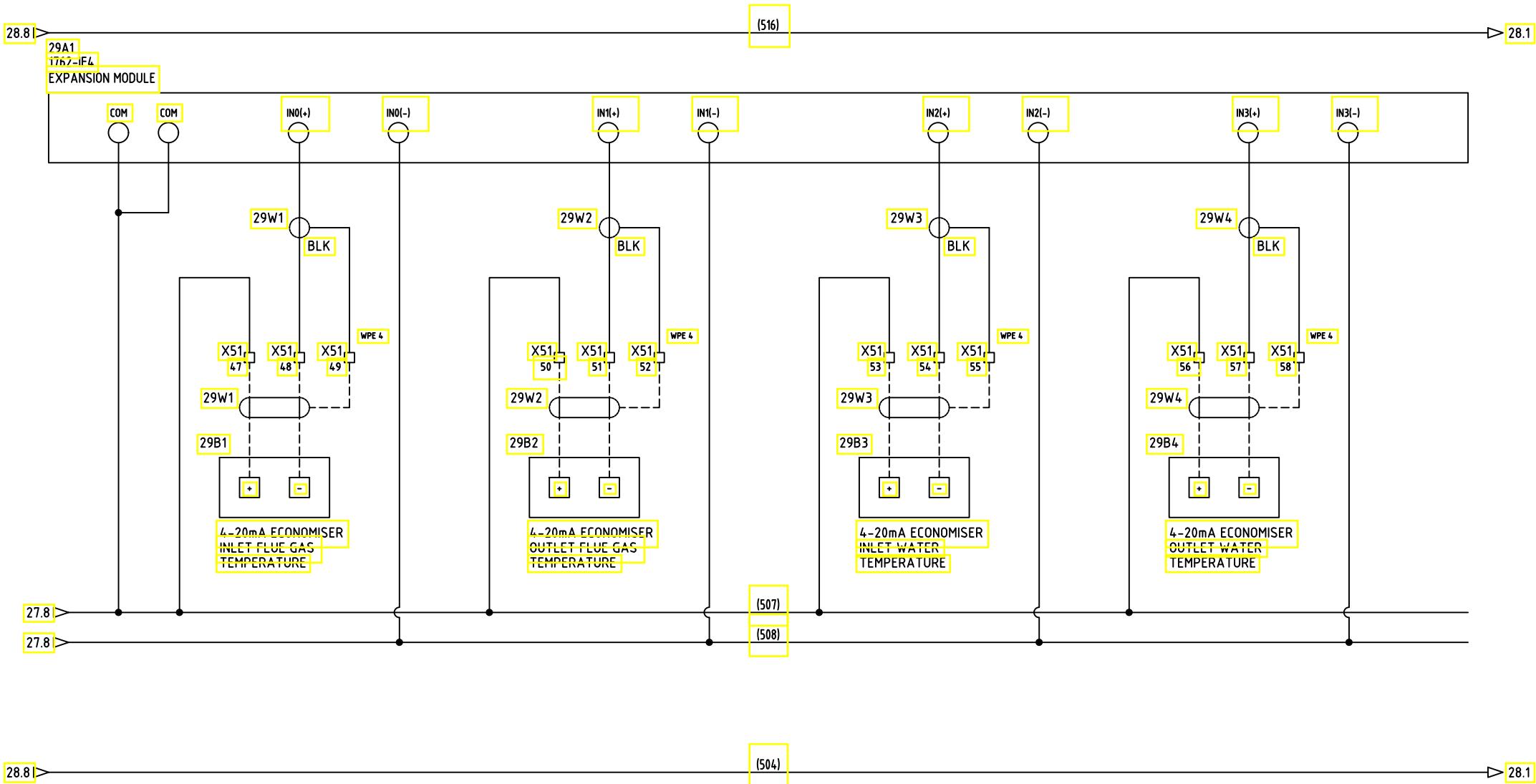
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DWG No.	REV.
GS 11666	3
SHEET No.	
29 - 40	

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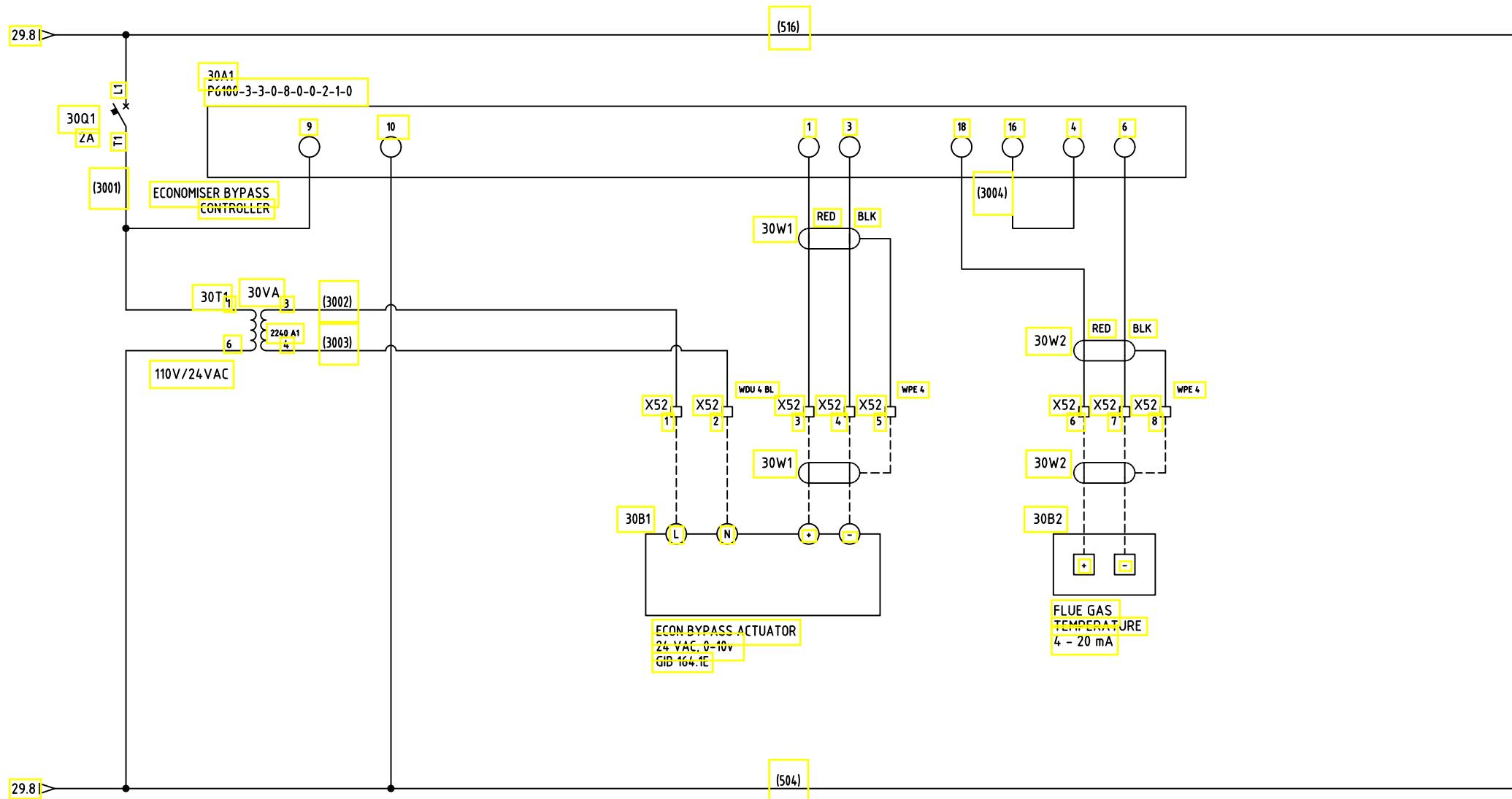
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DWG No.	REV.
GS 11666	3
SHEET No.	
30 - 40	

## TERM PLAN - BLR PNL

X1	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
L1	WEIDMULLER	WDU 35	○	
L2	WEIDMULLER	WDU 35	○	
L3	WEIDMULLER	WDU 35	○	
N	WEIDMULLER	WDU 35 BL	○	
PE	WEIDMULLER	WPE 35	○	
END STOP	WEIDMULLER	EW 35		

X2	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
1	WEIDMULLER	WDU 4	○	
2	WEIDMULLER	WDU 4	○	
3	WEIDMULLER	WDU 4	○	
PE	WEIDMULLER	WPE 4	○	
END STOP	WEIDMULLER	EW 35		

X3	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
N	WEIDMULLER	WDU 4 BL	○	
N	WEIDMULLER	WDU 4 BL	○	
N	WEIDMULLER	WDU 4 BL	○	
N	WEIDMULLER	WDU 4 BL	○	
CC	WEIDMULLER	WDU 10	○	
N	WEIDMULLER	WPA 10 RI	○	
PE	WEIDMULLER	WPE 10	○	
1	WEIDMULLER	WDU 4	○	
2	WEIDMULLER	WDU 4	○	
3	WEIDMULLER	WDU 4	○	
4	WEIDMULLER	WDU 4	○	
5	WEIDMULLER	WDU 4	○	
6	WEIDMULLER	WDU 4	○	
7	WEIDMULLER	WDU 4	○	
8	WEIDMULLER	WDU 4	○	
9	WEIDMULLER	WDU 4	○	
10	WEIDMULLER	WDU 4	○	
11	WEIDMULLER	WDU 4	○	
12	WEIDMULLER	WDU 4	○	
13	WEIDMULLER	WDU 4	○	
14	WEIDMULLER	WDU 4 BL	○	
15	WEIDMULLER	WDU 4	○	
16	WEIDMULLER	WDU 4 BL	○	
17	WEIDMULLER	WDU 4	○	
18	WEIDMULLER	WDU 4 BL	○	
19	WEIDMULLER	WDU 4	○	
20	WEIDMULLER	WDU 4 BL	○	
21	WEIDMULLER	WDU 4	○	
22	WEIDMULLER	WDU 4	○	
23	WEIDMULLER	WDU 4	○	
24	WEIDMULLER	WDU 4	○	
25	WEIDMULLER	WDU 4	○	
26	WEIDMULLER	WDU 4	○	
27	WEIDMULLER	WDU 4 BL	○	
28	WEIDMULLER	WDU 4	○	
29	WEIDMULLER	WDU 4	○	
END PLATE	WEIDMULLER	WAP	2.5/4/6/10	
END STOP	WEIDMULLER	EW 35		

X31	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
32	WEIDMULLER	WDU 4	○	
33	WEIDMULLER	WDU 4	○	
34	WEIDMULLER	WDU 4	○	
35	WEIDMULLER	WDU 4 BL	○	
END PLATE	WEIDMULLER	WAP	2.5/4/6/10	
END STOP	WEIDMULLER	EW 35		

X52	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
1	WEIDMULLER	WDU 4	○	
2	WEIDMULLER	WDU 4 BL	○	
3	WEIDMULLER	WDU 4	○	
4	WEIDMULLER	WDU 4	○	
5	WEIDMULLER	WPE 4	○	
6	WEIDMULLER	WDU 4	○	
7	WEIDMULLER	WDU 4	○	
8	WEIDMULLER	WPE 4	○	
END PLATE	WEIDMULLER	WAP	2.5/4/6/10	
END STOP	WEIDMULLER	EW 35		

X5	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
1	WEIDMULLER	WDU 4	○	
2	WEIDMULLER	WDU 4	○	
3	WEIDMULLER	WDU 4	○	
4	WEIDMULLER	WDU 4	○	
5	WEIDMULLER	WDU 4	○	
6	WEIDMULLER	WDU 4	○	
7	WEIDMULLER	WDU 4	○	
8	WEIDMULLER	WPE 4	○	
9	WEIDMULLER	WDU 4	○	
10	WEIDMULLER	WDU 4	○	
11	WEIDMULLER	WDU 4	○	
12	WEIDMULLER	WDU 4	○	
13	WEIDMULLER	WDU 4	○	
14	WEIDMULLER	WDU 4	○	
15	WEIDMULLER	WDU 4	○	
16	WEIDMULLER	WDU 4	○	
17	WEIDMULLER	WDU 4	○	
18	WEIDMULLER	WDU 4	○	
19	WEIDMULLER	WDU 4	○	
20	WEIDMULLER	WDU 4	○	
21	WEIDMULLER	WDU 4	○	
22	WEIDMULLER	WDU 4	○	
23	WEIDMULLER	WDU 4 BL	○	
24	WEIDMULLER	WDU 4	○	
25	WEIDMULLER	WDU 4	○	
26	WEIDMULLER	WDU 4	○	
27	WEIDMULLER	WDU 4	○	
28	WEIDMULLER	WDU 4	○	
29	WEIDMULLER	WDU 4 BL	○	
30	WEIDMULLER	WDU 4	○	
31	WEIDMULLER	WDU 4	○	
END PLATE	WEIDMULLER	WAP	2.5/4/6/10	
END STOP	WEIDMULLER	EW 35		

X5	Number	Manufacturer	Catalog	Jumper
60	WEIDMULLER	WDU 4	○	
61	WEIDMULLER	WDU 4	○	
62	WEIDMULLER	WPE 4	○	
63	WEIDMULLER	WDU 4	○	
64	WEIDMULLER	WDU 4	○	
65	WEIDMULLER	WPE 4	○	
66	WEIDMULLER	WDU 4	○	
67	WEIDMULLER	WDU 4	○	
68	WEIDMULLER	WPE 4	○	
69	WEIDMULLER	WDU 4	○	
70	WEIDMULLER	WDU 4	○	
71	WEIDMULLER	WPE 4	○	
72	WEIDMULLER	WDU 4	○	
73	WEIDMULLER	WDU 4	○	
74	WEIDMULLER	WPE 4	○	
75	WEIDMULLER	WDU 4	○	
76	WEIDMULLER	WDU 4	○	
77	WEIDMULLER	WPE 4	○	
END PLATE	WEIDMULLER	WAP	2.5/4/6/10	
END STOP	WEIDMULLER	EW 35		

X7	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
1	WEIDMULLER	WDU 4	○	
2	WEIDMULLER	WDU 4	○	
END PLATE	WEIDMULLER	WAP	2.5/4/6/10	
END STOP	WEIDMULLER	EW 35		

DWG No. GS 11666 REV. 3  
SHEET No. 31 - 40

**BLR PNL LAYOUT****CABINET DIMENSIONS:**

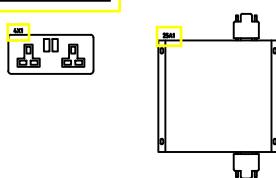
800mm WIDE x2  
2000mm HIGH  
600mm DEEP

ALL CABINETS MOUNTED  
ON 200mm PLINTH  
WITH 200mm TOP ENTRY PANEL

**CABLE ENTRIES:**

ALL CABLES - TOP

COMPONENTS SHOWN BELOW ARE MOUNTED  
ON THE INSIDE OF THE ENCLOSURE USING INTERNAL  
MOUNTING RAILS:

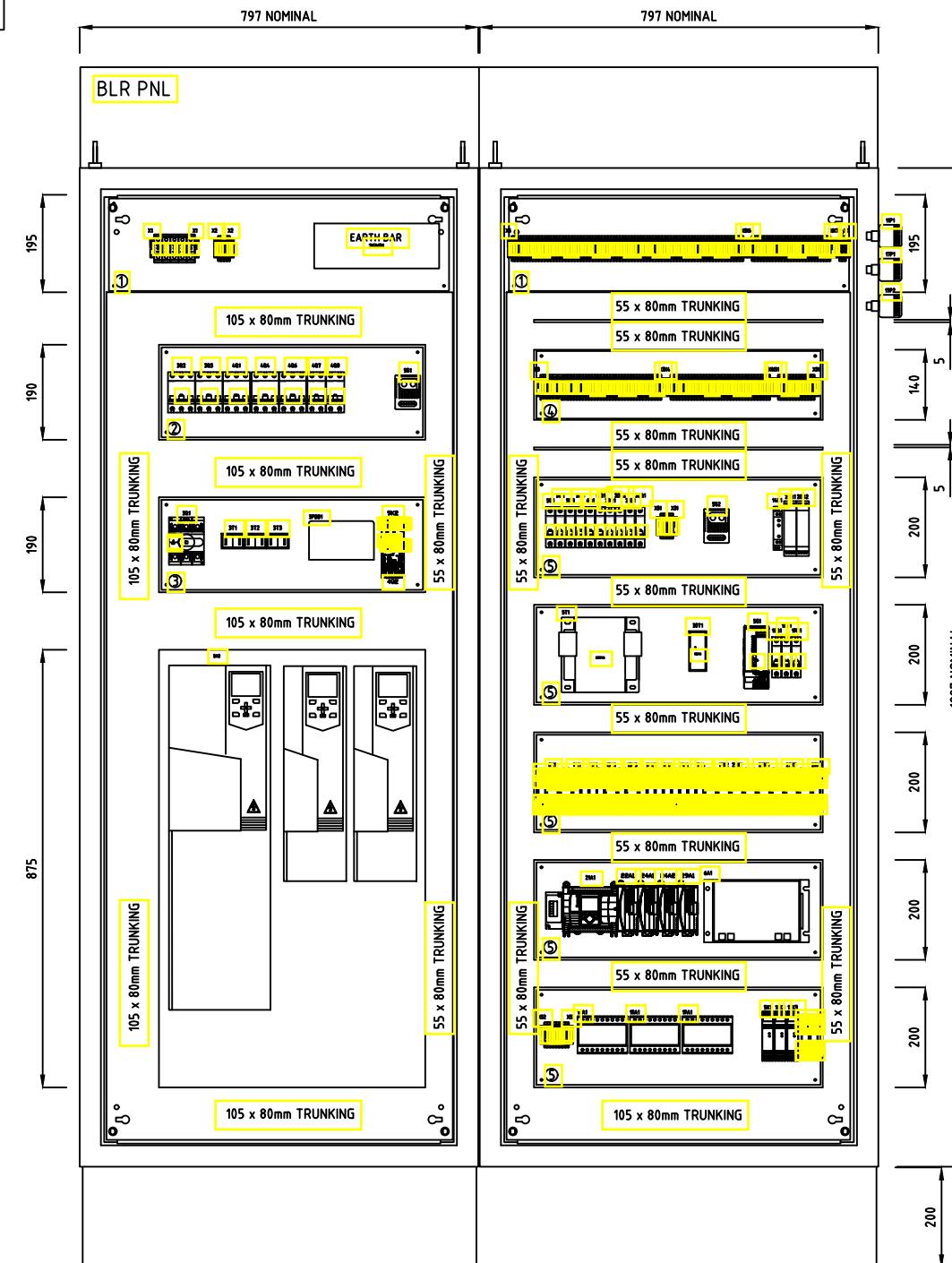


PERSPEX COVER SIZES SHOWN BELOW:  
REFERENCE GA20742

①	680x185mm
②	523x180mm
③	523x180mm
④	568x130mm

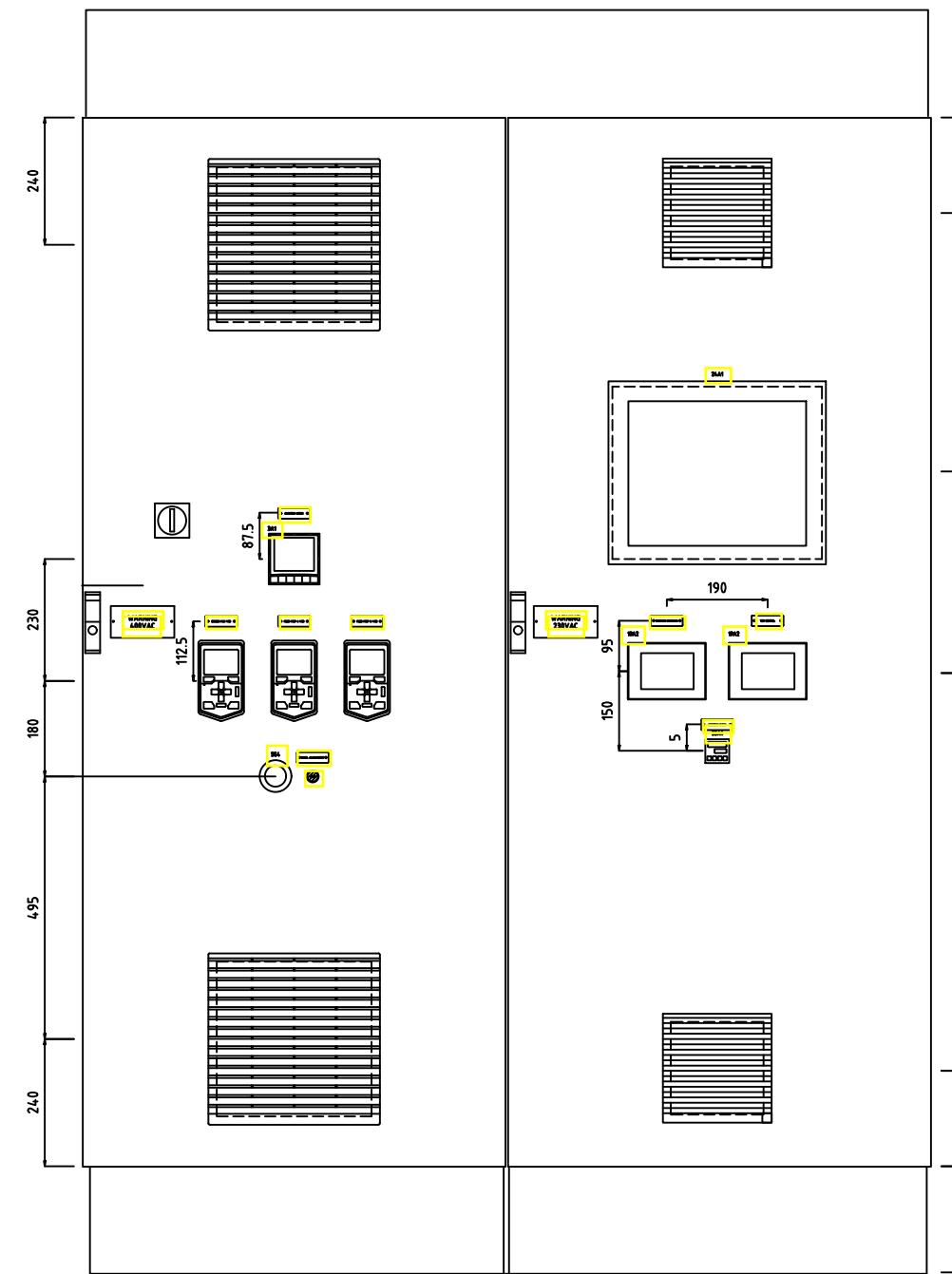
BETADUCT TRUNKING SIZES SHOWN BELOW:

TRUNKING	PART NO.	DCL CODE
25 x 80mm	10460022	TRUNKG00400
55 x 80mm	10460054	TRUNKG00410
80 x 80mm	10460074	TRUNKG00420
105 x 80mm	10460104	TRUNKG00430



RITTAL TS 8126.235 BOILER CONTROL PANEL

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X2	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
1	WEIDMULLER	WDU 4		○
2	WEIDMULLER	WDU 4		○
3	WEIDMULLER	WDU 4		○
PE	WEIDMULLER	WPE 4		○
END STOP	WEIDMULLER	EW 35		

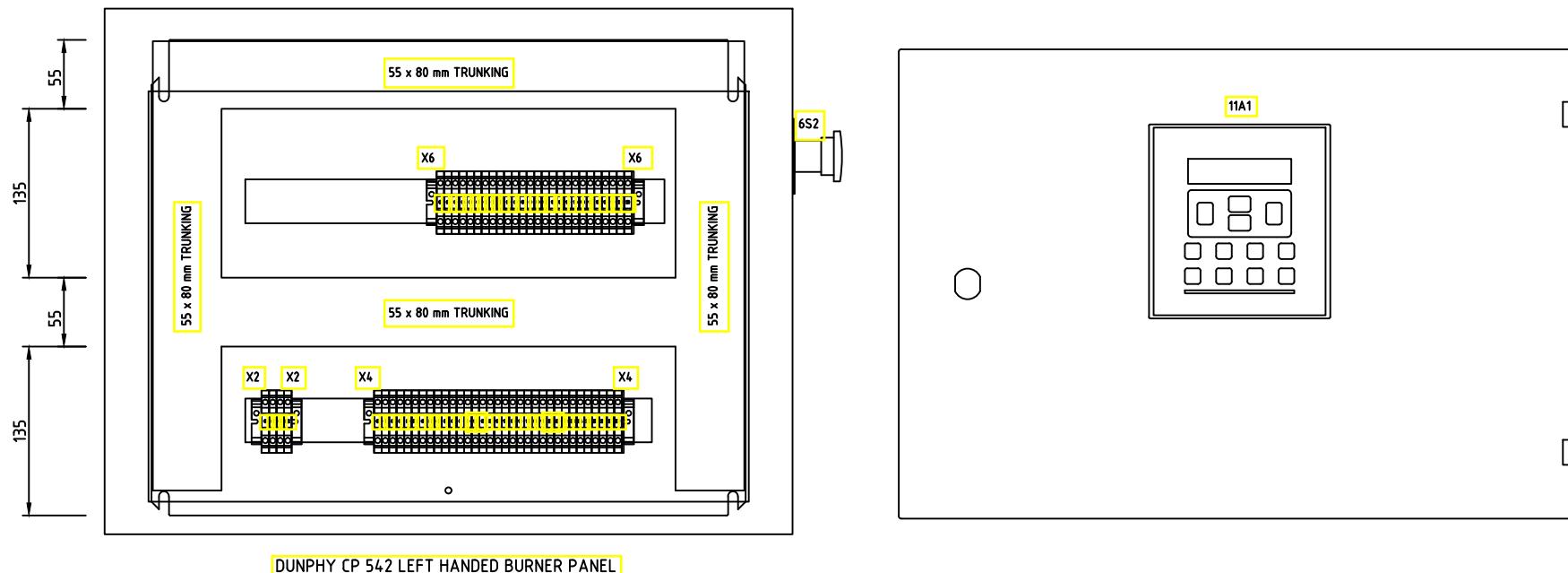
X4	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
C	WEIDMULLER	WDU 4		○
D	WEIDMULLER	WDU 4		○
F	WEIDMULLER	WDU 4		○
N	WEIDMULLER	WDU 4 BL		●
N	WEIDMULLER	WDU 4 BL		●
PE	WEIDMULLER	WPE 4		○
1	WEIDMULLER	WDU 4		○
2	WEIDMULLER	WDU 4		○
4	WEIDMULLER	WDU 4 BL		○
5	WEIDMULLER	WDU 4		○
6	WEIDMULLER	WDU 4		○
7	WEIDMULLER	WDU 4		○
9	WEIDMULLER	WDU 4		○
10	WEIDMULLER	WDU 4		○
11	WEIDMULLER	WDU 4		○
12	WEIDMULLER	WDU 4		○
13	WEIDMULLER	WDU 4		○
14	WEIDMULLER	WDU 4 BL		○
15	WEIDMULLER	WDU 4		○
16	WEIDMULLER	WDU 4 BL		○
17	WEIDMULLER	WDU 4		○
18	WEIDMULLER	WDU 4 BL		○
19	WEIDMULLER	WDU 4		○
20	WEIDMULLER	WDU 4 BL		○
21	WEIDMULLER	WDU 4		○
22	WEIDMULLER	WDU 4		○
23	WEIDMULLER	WDU 4		○
24	WEIDMULLER	WDU 4		○
25	WEIDMULLER	WDU 4		○
26	WEIDMULLER	WDU 4		○
27	WEIDMULLER	WDU 4 BL		○
28	WEIDMULLER	WDU 4		○
29	WEIDMULLER	WDU 4		○
END PLATE	WEIDMULLER	WAP		
END PLATE	WEIDMULLER	2.5/4/6/10		
END STOP	WEIDMULLER	EW 35		

X6	Number	Manufacturer	Catalog	Jumper
END STOP	WEIDMULLER	EW 35		
G	WEIDMULLER	WDU 4		○
H	WEIDMULLER	WDU 4		○
I	WEIDMULLER	WDU 4		○
J	WEIDMULLER	WDU 4		○
K	WEIDMULLER	WDU 4		○
L	WEIDMULLER	WDU 4		○
M	WEIDMULLER	WDU 4		○
N	WEIDMULLER	WDU 4		○
O	WEIDMULLER	WDU 4		○
P	WEIDMULLER	WDU 4		○
Q	WEIDMULLER	WDU 4		○
R	WEIDMULLER	WDU 4		○
S	WEIDMULLER	WDU 4		○
T	WEIDMULLER	WDU 4		○
U	WEIDMULLER	WDU 4		○
V	WEIDMULLER	WDU 4		○
W	WEIDMULLER	WDU 4		○
X	WEIDMULLER	WDU 4		○
Y	WEIDMULLER	WDU 4		○
Z	WEIDMULLER	WDU 4		○
END PLATE	WEIDMULLER	WAP		
END PLATE	WEIDMULLER	2.5/4/6/10		
END STOP	WEIDMULLER	EW 35		

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BNR PNL LAYOUT

CABINET DIMENSIONS:
329mm WIDE
720mm HIGH
200mm DEEP
BACKPLATE DIMENSIONS:
475mm WIDE
500mm HIGH
CABLE ENTRIES:
ALL CABLES - BOTTOM
AREA CLASSIFICATION:
SAFE (NON-HAZARDOUS)



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SHEET No.	
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## PARTS LIST

TAG	LOCATION	MANUFACTURER	PART REFERENCE	DESCRIPTION	QTY	DCI CODE
BLR PNL	RITTAL	RITTAL	8806.500	TS 8 BAYING SYSTEM ENCLOSURE	2	CABRIT01400
	RITTAL	RITTAL	8106.235	SIDE PANELS FOR TS 8 BAYING SYSTEM	1	CABRIT01410
	RITTAL	RITTAL	8800.490	EXTERNAL BAYING CONNECTOR SET	1	CABRIT01080
	RITTAL	RITTAL	8602.060	PLINTH (SIDES) FOR TS 8 BAYING SYSTEM	1	CABRIT01465
	RITTAL	RITTAL	8602.800	PLINTH (FRONT+REAR) FOR TS 8 BAYING SYSTEM	2	CABRIT00550
	DUNPHY	DUNPHY	TERMINU00920	COPPER EARTH BAR (250mm X 50mm x 6mm)	1	TERMINU00920
	RITTAL	RITTAL	8801.745	TOP MOUNTING TS/FR MODULE	2	CABRIT01470
	RITTAL	RITTAL	8801.775	MODULE SIDE PANEL	1	CABRIT01475
	DUNPHY	DUNPHY	ELELAM02155	PLEXIGLASS COVERS	1	ELELAM02155
	DUNPHY	DUNPHY	LEGEND04195	TRAFFOLITE PANEL LABEL (GA26750)	1	LEGEND04195
	DUNPHY	DUNPHY	LEGEND04196	TRAFFOLITE PANEL LABEL (GA26751)	1	LEGEND04196
BNR PNL	DUNPHY	DUNPHY	LABUNIU0130	CP 542 MILD STEEL ENCLOSURE	1	LABUNIU0130
	DUNPHY	DUNPHY	CABCPB00135	CP 542 MILD STEEL DOOR WITH ETC6061 CUT-OUT	1	CABCPB00135
X1	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 35	TERMINAL BLOCK - 102880	3	TERMINU00290
	WEIDMULLER	WEIDMULLER	WDU 35 BL	TERMINAL BLOCK - 102888	1	TERMINU0375
	WEIDMULLER	WEIDMULLER	WPE 35	PROTECTIVE CONDUCTOR TERMINAL - 101050	1	TERMIN00380
X2	BNR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	4	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	6	TERMIN00160
	WEIDMULLER	WEIDMULLER	WPE 4	PROTECTIVE CONDUCTOR TERMINAL - 101010	2	TERMIN00130
X3	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	25	TERMIN00160
	WEIDMULLER	WEIDMULLER	WPE 4	PROTECTIVE CONDUCTOR TERMINAL - 101010	1	TERMIN00130
	WEIDMULLER	WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	1	TERMIN00190
	WEIDMULLER	WEIDMULLER	WDU 4 BL	TERMINAL BLOCK - 102018	9	TERMINU0210
	WEIDMULLER	WEIDMULLER	WDU 10	TERMINAL BLOCK - 102030	1	TERMIN00170
	WEIDMULLER	WEIDMULLER	WDU 10 BL	TERMINAL BLOCK - 102038	1	TERMIN00165
	WEIDMULLER	WEIDMULLER	WPE 10	PROTECTIVE CONDUCTOR TERMINAL - 101030	1	TERMIN00140
X31	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	2	TERMIN00160
	WEIDMULLER	WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	1	TERMIN00190
	WEIDMULLER	WEIDMULLER	WDU 4 BL	TERMINAL BLOCK - 102018	1	TERMIN00210
X4	BNR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	4	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	52	TERMIN00160
	WEIDMULLER	WEIDMULLER	WPE 4	PROTECTIVE CONDUCTOR TERMINAL - 101010	2	TERMIN00130
	WEIDMULLER	WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	2	TERMIN00190
	WEIDMULLER	WEIDMULLER	WDU 4 BL	TERMINAL BLOCK - 102018	12	TERMIN00210
X5	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	63	TERMIN00160
	WEIDMULLER	WEIDMULLER	WPE 4	PROTECTIVE CONDUCTOR TERMINAL - 101010	14	TERMIN00130
	WEIDMULLER	WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	1	TERMIN00190
X51	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	8	TERMIN00160
	WEIDMULLER	WEIDMULLER	WPE 4	PROTECTIVE CONDUCTOR TERMINAL - 101010	4	TERMIN00130
	WEIDMULLER	WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	1	TERMIN00190
X52	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
	WEIDMULLER	WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	5	TERMIN00160
	WEIDMULLER	WEIDMULLER	WPE 4	PROTECTIVE CONDUCTOR TERMINAL - 101010	2	TERMIN00130
	WEIDMULLER	WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	1	TERMIN00190

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TAG	LOCATION	MANUFACTURER	PART REFERENCE	DESCRIPTION	QTY	DCI CODE
X6	BNR PNL	WEIDMULLER	WDU 4 BL	TERMINAL BLOCK - 102018	1	TERMIN00210
		WEIDMULLER	EW 35	TERMINAL END STOP	4	TERMIN00110
		WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	52	TERMIN00160
		WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	2	TERMIN00190
X7	BLR PNL	WEIDMULLER	EW 35	TERMINAL END STOP	2	TERMIN00110
		WEIDMULLER	WDU 4	TERMINAL BLOCK - 102010	2	TERMIN00160
		WEIDMULLER	WAP 2.5/4/6/10	TERMINAL END PLATE	1	TERMIN00190
3A1	BLR PNL	SOCOME	4825 0201	DIRIS A40 MULTI-FUNCTION METER	1	ELECAM00350
		SOCOME	4825 0090	DIRIS PULSE OUTPUT MODULE	1	ELECAM00351
		SOCOME	4825 0093	DIRIS ANALOGUE OUTPUT MODULE	1	ELECAM00352
3A2	BLR PNL	ABB	ACS580-01-072A-4	ACS 580 VARIABLE SPEED DRIVE (37kW)	1	INVABB00190
		ABB	DPMP-EX1	ACS 580 DOOR MOUNTING KIT	1	INVABB00200
3PDB1	BLR PNL	ABB	BRT 160 A	4-POLE DISTRIBUTION BLOCK (160A)	1	TERMIN00420
3Q1	BLR PNL	ABB	DT 100 F4 N2	ISOLATOR SWITCH (100A)	1	ELECSW03455
		ABB	UXP6X400	ISOLATOR SHAFT (6mm DIA, 400mm LONG)	1	ELECSW02120
		ABB	UHY SZAJ	ISOLATOR HANDLE (SQUARE)	1	ELECSW02200
3Q2	BLR PNL	SCHNEIDER ELECTRIC	A9F5430Z	MINIATURE CIRCUIT BREAKER	1	XXXXX
3Q3	BLR PNL	SCHNEIDER ELECTRIC	A9N18468	MINIATURE CIRCUIT BREAKER	1	ELEMCB00826
3T1	BLR PNL	HOWARD BUTLER	CT132M100/5	CURRENT TRANSFORMER (100:5AMPS)	1	TRANSF00360
3T2	BLR PNL	HOWARD BUTLER	CT132M100/5	CURRENT TRANSFORMER (100:5AMPS)	1	TRANSF00360
3T3	BLR PNL	HOWARD BUTLER	CT132M100/5	CURRENT TRANSFORMER (100:5AMPS)	1	TRANSF00360
4A1	BLR PNL	ABB	ACS580-01-025A-4 (FREE ISSUE)	ACS 580 VARIABLE SPEED DRIVE (11kW)	1	FREEISSUE
		ABB	DPMP EXT (FREE ISSUE)	ACS 580 DOOR MOUNTING KIT	1	FREEISSUE
4A2	BLR PNL	ABB	ACS580-01-025A-4 (FREE ISSUE)	ACS 580 VARIABLE SPEED DRIVE (11kW)	1	FREEISSUE
		ABB	DPMP EXT (FREE ISSUE)	ACS 580 DOOR MOUNTING KIT	1	FREEISSUE
4H1	BLR PNL	ROBUS	RLEDSTR3W	3 WATT LED STRIPLIGHT	1	ELECAM02000
4H2	BLR PNL	ROBUS	RLEDSTR3W	3 WATT LED STRIPLIGHT	1	ELECAM02000
4Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54332	MINIATURE CIRCUIT BREAKER	1	ELEMCB01850
4Q2	BLR PNL	SIEMENS	3RU2116-1KB0	S00 SIRIUS THERMAL OVERLOAD (9.0-12.5A)	1	UVRSIE00160
		SIEMENS	3RU29263AAU1	STAND ALONE DIN RAIL MOUNTING BRACKET	1	UVRSIE00015
4Q4	BLR PNL	SCHNEIDER ELECTRIC	A9F54332	MINIATURE CIRCUIT BREAKER	1	ELEMCB01850
4Q6	BLR PNL	SCHNEIDER ELECTRIC	A9F54332	MINIATURE CIRCUIT BREAKER	1	ELEMELB01850
4Q7	BLR PNL	SCHNEIDER ELECTRIC	A9F54202	MINIATURE CIRCUIT BREAKER	1	ELEMELB01760
4Q8	BLR PNL	SCHNEIDER ELECTRIC	A9F54206	MINIATURE CIRCUIT BREAKER	1	ELEMCB01780
4S1	BLR PNL	rittal	IPS 4121.000	DOOR MOUNTED LIMIT SWITCH	1	CABRIT00485
4S2	BLR PNL	rittal	IPS 4121.000	DOOR MOUNTED LIMIT SWITCH	1	CABRIT00485
4XT	BLR PNL	TIMEGAURD	RCDO7M	230VAC DOUBLE RCD MAINS SOCKET (SWITCHED)	1	CONELE01350
5G1	BLR PNL	SIEMENS	6EP1334-2BA20	POWER SUPPLY UNIT, 24VDC	1	SIMPLL00255
5K1	BLR PNL	PHOENIX	Z981020	PSR-24VDC/LSP4/2X1/1X2	1	ELEFLAM02154
5M1	BLR PNL	rittal	ISK 3243.110	323mm FAN (110V)	1	CABRIT00675
		rittal	ISK 3243.200	323mm FILTER	1	CABRIT00610
5M2	BLR PNL	rittal	ISK 3239.110	1204mm FAN (110V)	1	CABRIT00301
		rittal	ISK 3239.200	1204mm FILTER	1	CABRIT00310
5Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCB01710
5Q2	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMELB01710
5Q3	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMELB01710
5Q4	BLR PNL	SCHNEIDER ELECTRIC	A9F54110	MINIATURE CIRCUIT BREAKER	1	ELEMCB01740
5R1		STEGO	HG140/60W	PANEL HEATER (60W)	1	HEATER00170

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TAG	LOCATION	MANUFACTURER	PART REFERENCE	DESCRIPTION	QTY	DCI CODE
5R2		ISTEGO	HG140/60W	PANEL HEATER (60W)	1	HEATER00170
5R3		ISTEGO	HG140/60W	PANEL HEATER (60W)	1	HEATER00170
5R4		ISTEGO	HG140/60W	PANEL HEATER (60W)	1	HEATER00170
5S1	BLR PNL	STEGO	ZR/01172.0-00	THERMOSTAT (C/O)	1	THSTAT00620
5S2	BLR PNL	STEGO	ZR/01172.0-00	THERMOSTAT (C/O)	1	THSTAT00620
5S4	BLR PNL	TELEMECANIQUE	ZB4-B554	RED MUSHROOM PUSH BUTTON - LATCHING	1	ELECTIM00050
		TELEMECANIQUE	ZB4-BZ101	COMPLETE BODY	1	ELECTIM00010
		TELEMECANIQUE	ZBE-102	SINGLE CONTACT BLOCK (1 NC)	1	ELECTIM00310
		SIEMENS	3SB39210AK	EMERGENCY STOP SHROUD	1	ELECSW01945
5S5	BLR PNL	TELEMECANIQUE	ZBSAW343	ILLUMINATED PUSHBUTTON HEAD - 022 - RED	1	ELECTIM00201
		TELEMECANIQUE	ZBV-B4	RED L.E.D. (24VDC)	1	ELECTIM00620
5T1	BLR PNL	BLOCK	ISTEU1000/23	POWER TRANSFORMER (400/230 VAC - 115 VAC)	1	TRANSF00430
6A1	BLR PNL	ETC	RATIOTRONIC 6000	BURNER MANAGEMENT SYSTEM	1	ETCRAT00705
		ETC	RATIOTRONIC 6052	VSD DAUGHTER BOARD	1	ETCRAT00705
6K1	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
6Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54104	MINIATURE CIRCUIT BREAKER	1	ELEMLB00170
6S2	BNR PNL	TELEMECANIQUE	ZB4-B554	RED MUSHROOM PUSH BUTTON - LATCHING	1	ELECTIM00050
		TELEMECANIQUE	ZB4-BZ101	COMPLETE BODY	1	ELECTIM00010
8K1	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
8K2	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
8T1	BNR	MAY & CHRISTIE	ZA 20 100 LH 21 110V	H1 IGNITION TRANSFORMER	1	110VIMC00280
8T2	BNR	MAY & CHRISTIE	ZA 20 100 LH 21 110V	H1 IGNITION TRANSFORMER	1	110VIML00280
9K1	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
9K2	BLR PNL	SIEMENS	3RT2016-1AF01	S00 3-POLE CONTACTOR (9A)	1	CONSL00101
		TELEMECANIQUE	IAD 7B106	DIN RAIL MOUNTING BRACKET	1	UVRTEL00221
11A1	BNR PNL	ETC	RATIOTRONIC 6061	STANDARD DISPLAY MODULE	1	ETCRAT00755
11B1	BLR	TRAFAG	ELT116.0A	4-ZIMA PRESSURE SENSOR (0-16 BAR)	1	TRANDU00200
11K1	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
11K2	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
11P1	BLR PNL	AB	855PB20ME22	45MM SOUNDER (240VAC)	1	ELELAM00460
12K1	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
13K1	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
13K2	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
13K3	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
13K4	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
14K1	BLR PNL	TELE	E1ZMQ1	MULTIFUNCTION TIMER	1	TIMDEL00240
14K2	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
14K3	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520

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## PARTS LIST

TAG	LOCATION	MANUFACTURER	PART REFERENCE	DESCRIPTION	QTY	DCI CODE
		FINDER	19565	RELAY BASE	1	RELAYB00170
14K4	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
14K5	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
15A1	BLR	ETC	RATIOTRONIC 6080	OXYGEN TRIP INTERFACE	1	EILRA1007/0
15B1	BLR FLUE	ETC	ETC PROBE KIT 2012-1	FLUE PROBE KIT 2012-1 (215mm)	1	EILRA100790
15Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCB01710
16A1	BLR PNL	GESTRA	INRS 1-50 (FREE ISSUE)	LEVEL CONTROLLER	1	FREEISSUE
16K1	BLR PNL	FINDER	4052 7 024	2 POLE MINIATURE P.C.B. RELAY	1	RELAYA00530
		FINDER	19565	RELAY BASE	1	RELAYB00170
16K2	BLR PNL	FINDER	4052 7 024	2 POLE MINIATURE P.C.B. RELAY	1	RELAYA00530
		FINDER	19565	RELAY BASE	1	RELAYB00170
16K3	BLR PNL	PHOENIX	2981020	PSR-24VDC/ESP4/2X1/1X2	1	ELECAM02154
16Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCB01710
17K1	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
17K2	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
17K3	BLR PNL	PHOENIX	2981020	PSR-24VDC/ESP4/2X1/1X2	1	ELECAM02154
17K4	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	110VIM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
17P1	BLR PNL	AB	855PB20ME22	45MM SOUNDER (240VAC)	1	ELECAM00460
17P2	BLR PNL	AB	855PB20ME22	45MM SOUNDER (240VAC)	1	ELECAM00460
18A1	BLR PNL	GESTRA	INRS 2-52 (FREE ISSUE)	LEVEL CONTROLLER	1	FREEISSUE
18A2	BLR PNL	GESTRA	INRS 50 (FREE ISSUE)	TOUCHSCREEN INTERFACE (96mm x 136mm CUT-OUT)	1	FREEISSUE
18K1	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
18K2	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
18Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCB01710
19A1	BLR PNL	GESTRA	INRS 1-52 (FREE ISSUE)	BLLOWDOWN CONTROLLER	1	FREEISSUE
19A2	BLR PNL	GESTRA	INRS 50 (FREE ISSUE)	TOUCHSCREEN INTERFACE (96mm x 136mm CUT-OUT)	1	FREEISSUE
19Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCB01710
20A1	BLR PNL	PR ELECTRONICS	S104A-BZ-B	DUAL CHANNEL REPEATER / ISOLATOR	1	ELECAM00425
20A2	BLR PNL	PR ELECTRONICS	S104A-BZ-B	DUAL CHANNEL REPEATER / ISOLATOR	1	ELECAM00425
20Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54104	MINIATURE CIRCUIT BREAKER	1	ELEMCB01720
20Q2	BLR PNL	SCHNEIDER ELECTRIC	A9F54104	MINIATURE CIRCUIT BREAKER	1	ELEMCB01720
21A1	BLR PNL	AB	1763-L16BWA	MICROLOGIX 1100 PLC	1	MLXPLLC00100
		AB	1763-NC01	MODBUS EXPANSION UNIT	1	MLXPLLC00120
21Q1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCB01710
22A1	BLR PNL	AB	1762-IQ8	DIGITAL IP EXPANSION CARD (8 IN)	1	MLXPLLC00205
23K1	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
23K2	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
23K3	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
23K4	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	110VIM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180

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GS 11666	3
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## PARTS LIST

TAG	LOCATION	MANUFACTURER	PART REFERENCE	DESCRIPTION	QTY	DCI CODE
23K5	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	I110VTM00530
		FINDER	19464	RELAY BASE	1	RELAYB00180
23K6	BLR PNL	FINDER	5534 8 110	4 POLE MINIATURE P.C.B. RELAY	1	I110VTM00530
		FINDER	9464	RELAY BASE	1	RELAYB00180
24A1	BLR PNL	AB	1762-IF4	ANALOGUE EXPANSION CARD (4 IN)	1	MLXPLLC00110
		NEXCOM	APPD1700T	TOUCH-SCREEN DISPLAY	1	ELECAM01120
24A2	BLR PNL	AB	1762-IF4	ANALOGUE EXPANSION CARD (4 IN)	1	MLXPLLC00110
24X1	SEQ PNL	FCT	RS 615-6121	DB9 CONNECTOR (FEMALE)	1	ELECFI00670
24X7	BLR PNL	WEIDMULLER	1018840000	A-TYPE USB PANEL-MOUNTED SOCKET	1	ELECFI00650
24X8	SEQ PNL	FCT	RS 615-6121	DB9 CONNECTOR (FEMALE)	1	ELECFI00670
25A1	BLR PNL	NEXCOM	NISE2100	INDUSTRIAL PC WITH ATOM N270 1.6GHZ	1	ELECAM01110
25A2	BLR PNL	NEXCOM	APPD1700T	TOUCH-SCREEN DISPLAY	1	ELECAM01120
28K1	BLR PNL	FINDER	4052 8 110	2 POLE MINIATURE P.C.B. RELAY	1	I110VTM00520
		FINDER	19565	RELAY BASE	1	RELAYB00170
29A1	BLR PNL	AB	1762-IF4	ANALOGUE EXPANSION CARD (4 IN)	1	MLXPLLC00110
30A1	BLR PNL	WEST	P6100-3-3-0-8-0-0-2-1-0	SINGLE LOOP PROCESS CONTROLLER	1	LUNTRL01270
30U1	BLR PNL	SCHNEIDER ELECTRIC	A9F54102	MINIATURE CIRCUIT BREAKER	1	ELEMCLB01710
30T1	BLR PNL	PR ELECTRONICS	2240 A1	115/24V 30VA	1	ELECAM00181
		PR ELECTRONICS	1023	11-PIN RELAY BASE	1	ELECAM00130

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