



DXR 250 Valid from machine no. 26, **DXR 270** Valid from machine no. 1,
DXR 300 Valid from machine no. 1, **DXR 310** Valid from machine no. 91,
2012-10, 521 93 08-03

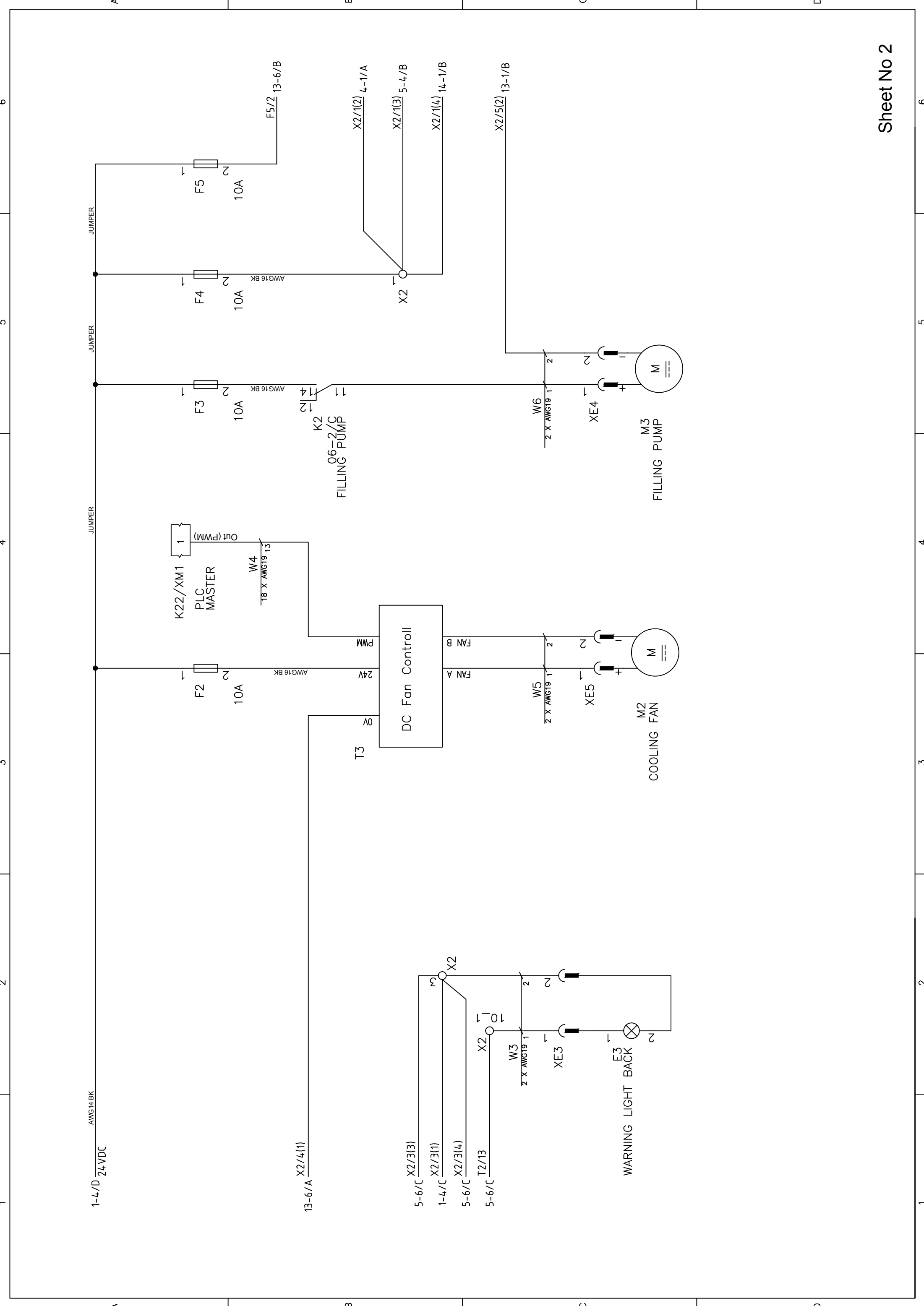
DXR 250

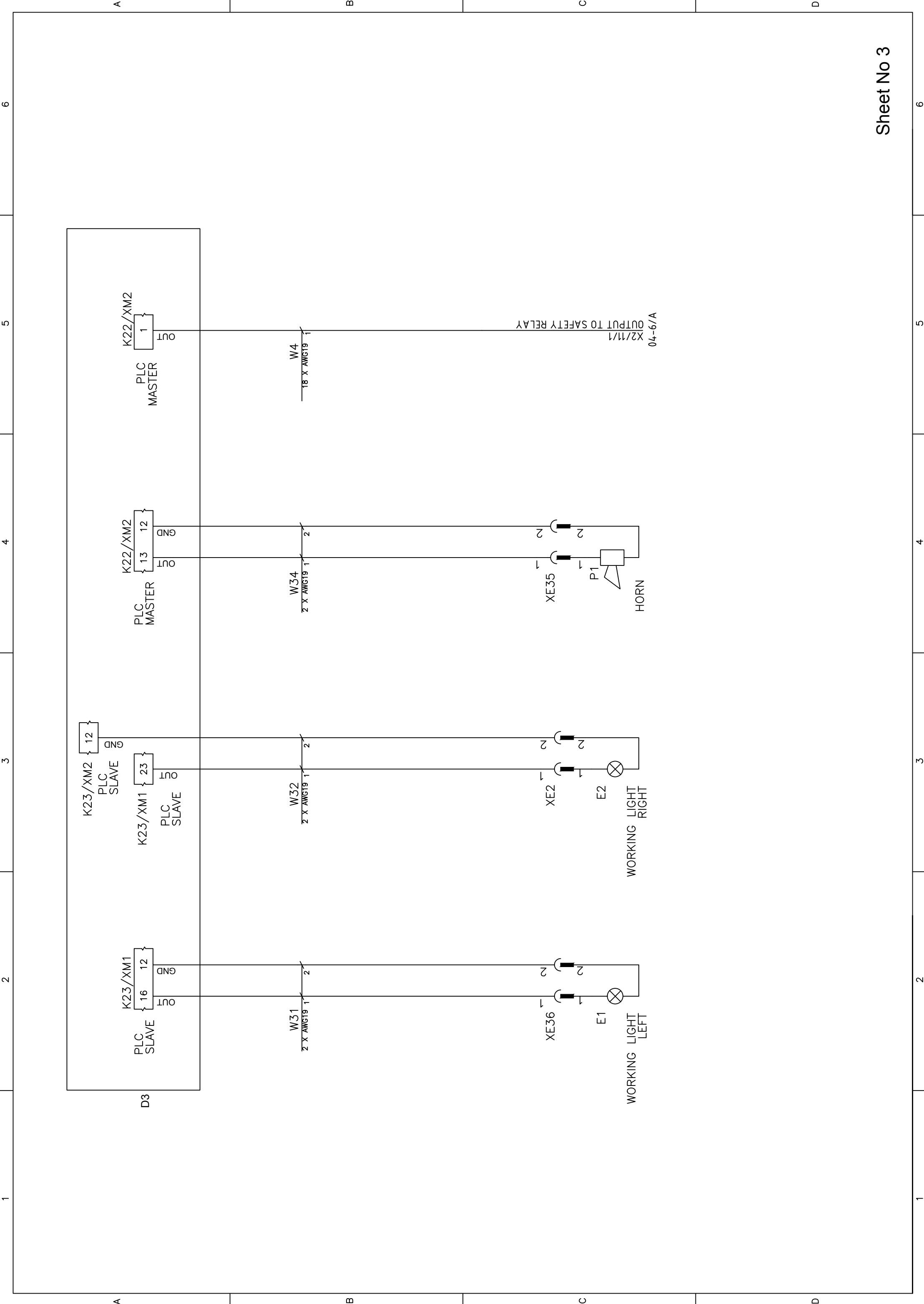
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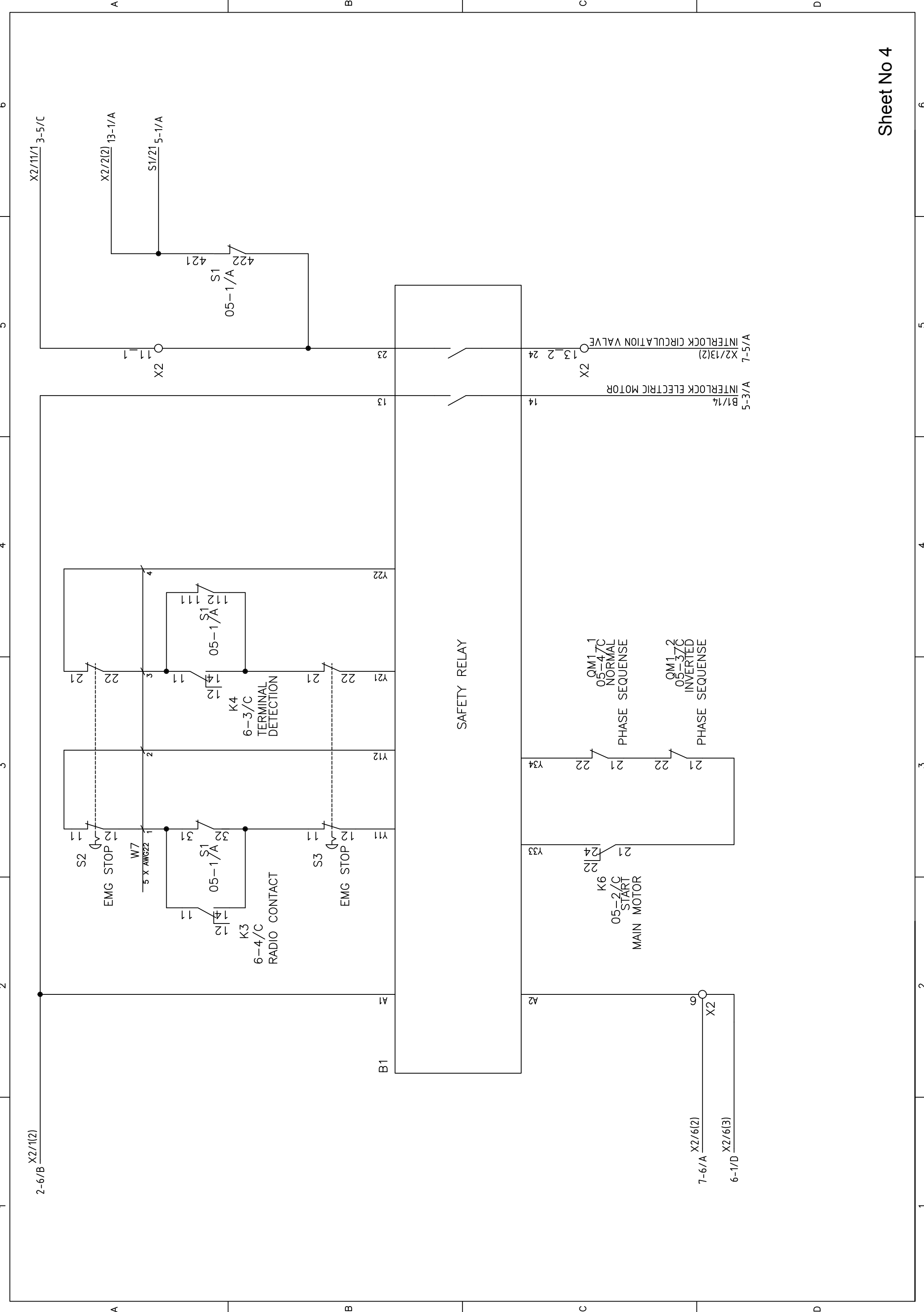
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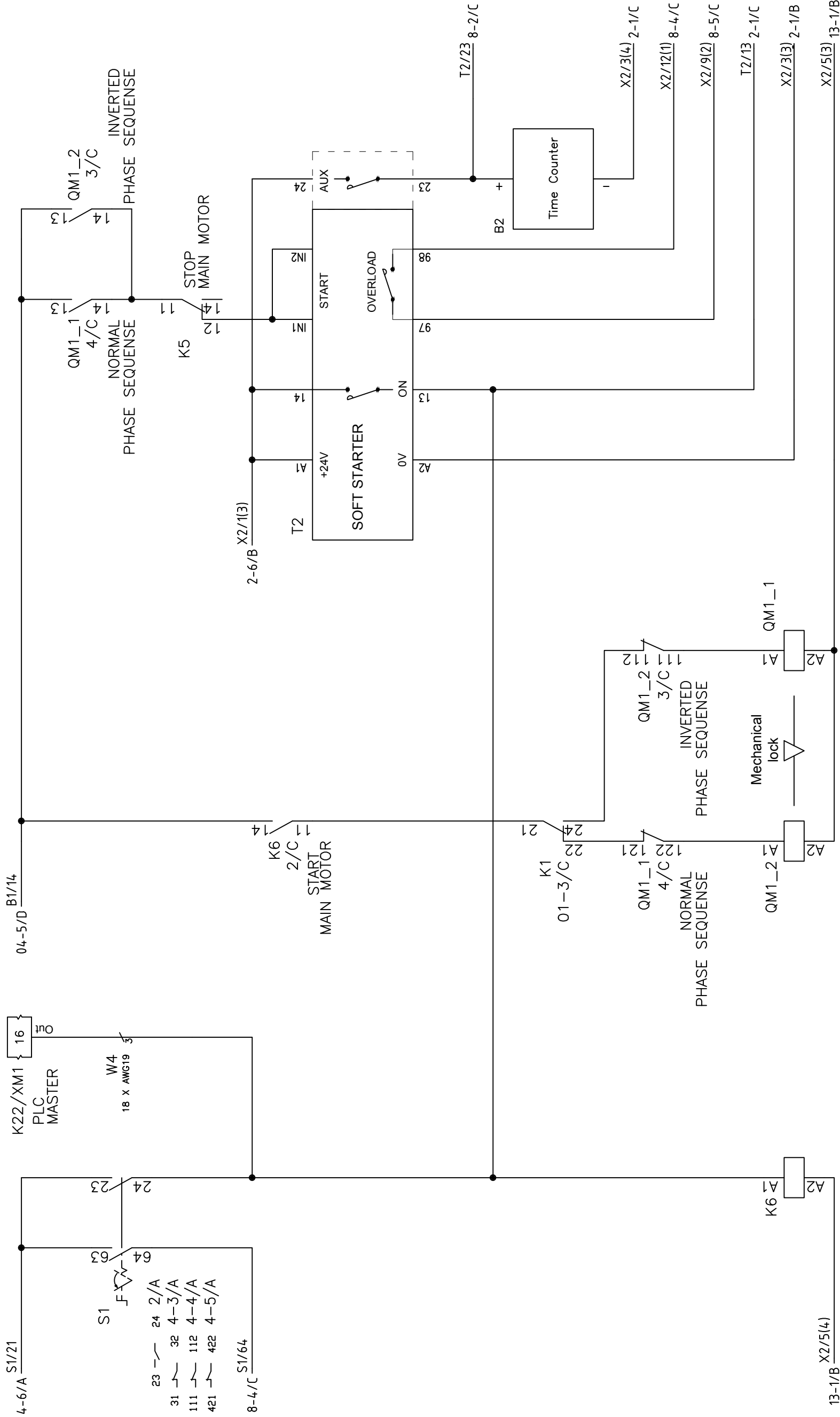
DXR 310

Electric circuit diagram
Hydraulic circuit diagram



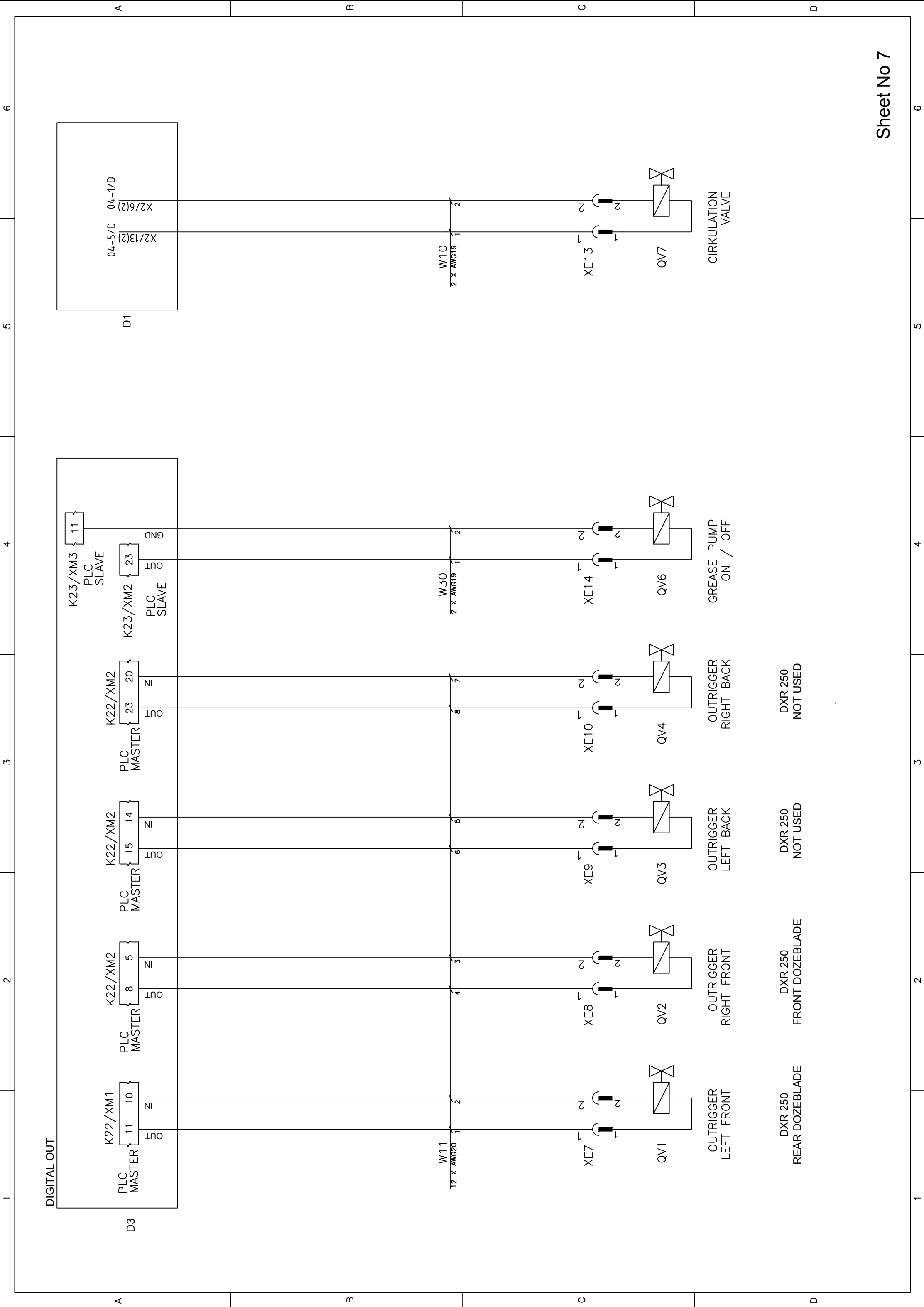






START MAIN MOTOR		INVERTED PHASE SEQUENCE		NORMAL PHASE SEQUENCE	
14	3/B	1	2	1	2
11	3/B	3	4	3	4
24	4-3/C	5	6	5	6
22	4-3/C	13	14	13	14
		22	21	22	21
		112	111	121	122
			4/C		3/C

INVERTED PHASE SEQUENCE		NORMAL PHASE SEQUENCE	
1	2	1	2
3	4	3	4
5	6	5	6
13	14	13	14
22	21	22	21



K23/XM2

PLC MASTER

23 20

NO NC

K23/XM3

PLC SLAVE

11

D1

04-5/D

X2/13(2)

04-1/D

X2/6(2)

W1 1

12 X AWG20

1 2

W10

2 X AWG19

1 2

W30

2 X AWG19

1 2

XE7

2

1

XE8

2

1

XE9

2

1

XE10

2

1

XE13

2

1

XE14

2

1

QV1

QV2

QV3

QV4

QV6

QV7

OUTRIGGER LEFT FRONT

OUTRIGGER RIGHT FRONT

OUTRIGGER LEFT BACK

OUTRIGGER RIGHT BACK

GREASE PUMP ON / OFF

CIRKULATION VALVE

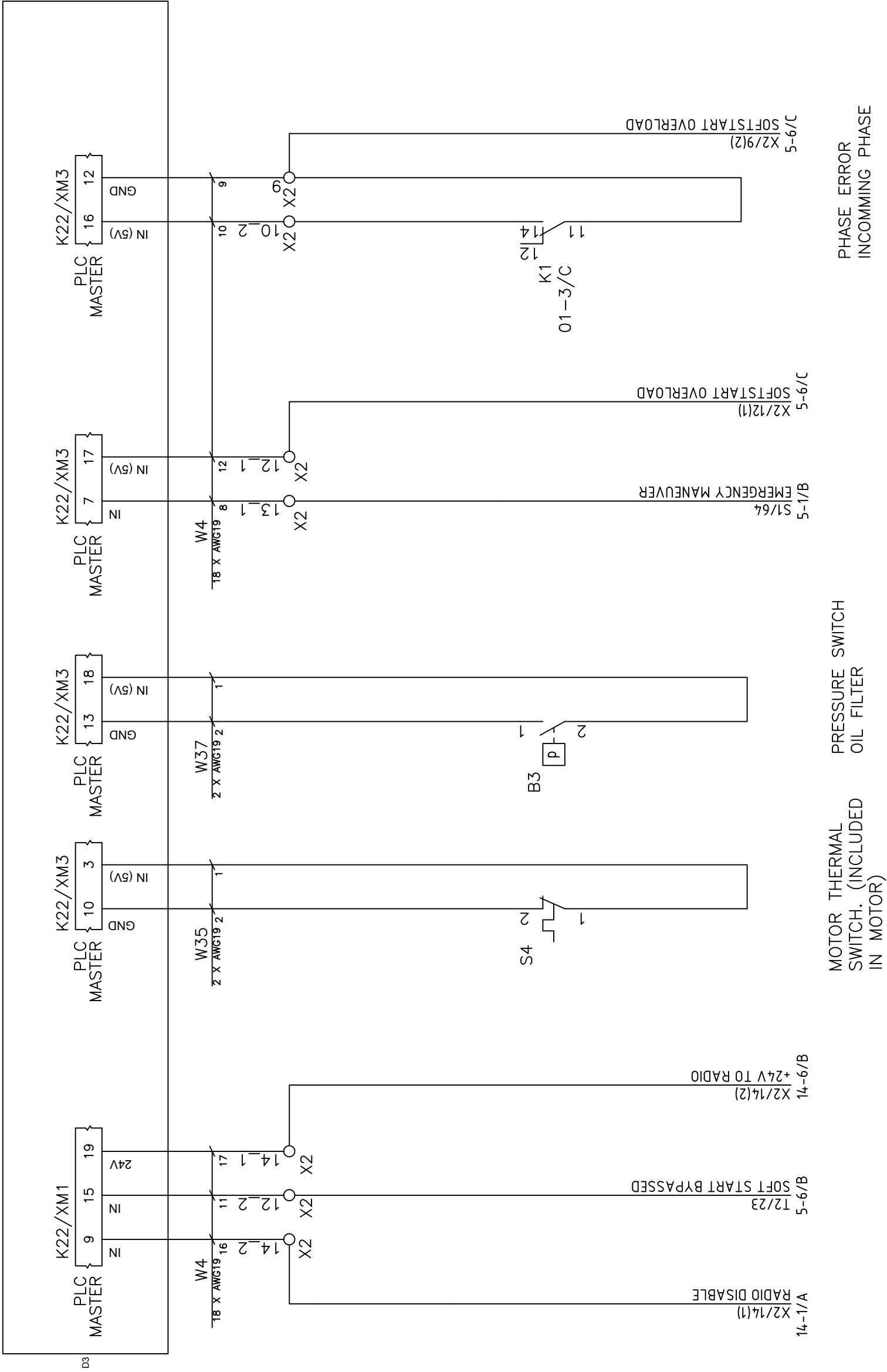
DXR 250 REAR DOZEBLADE

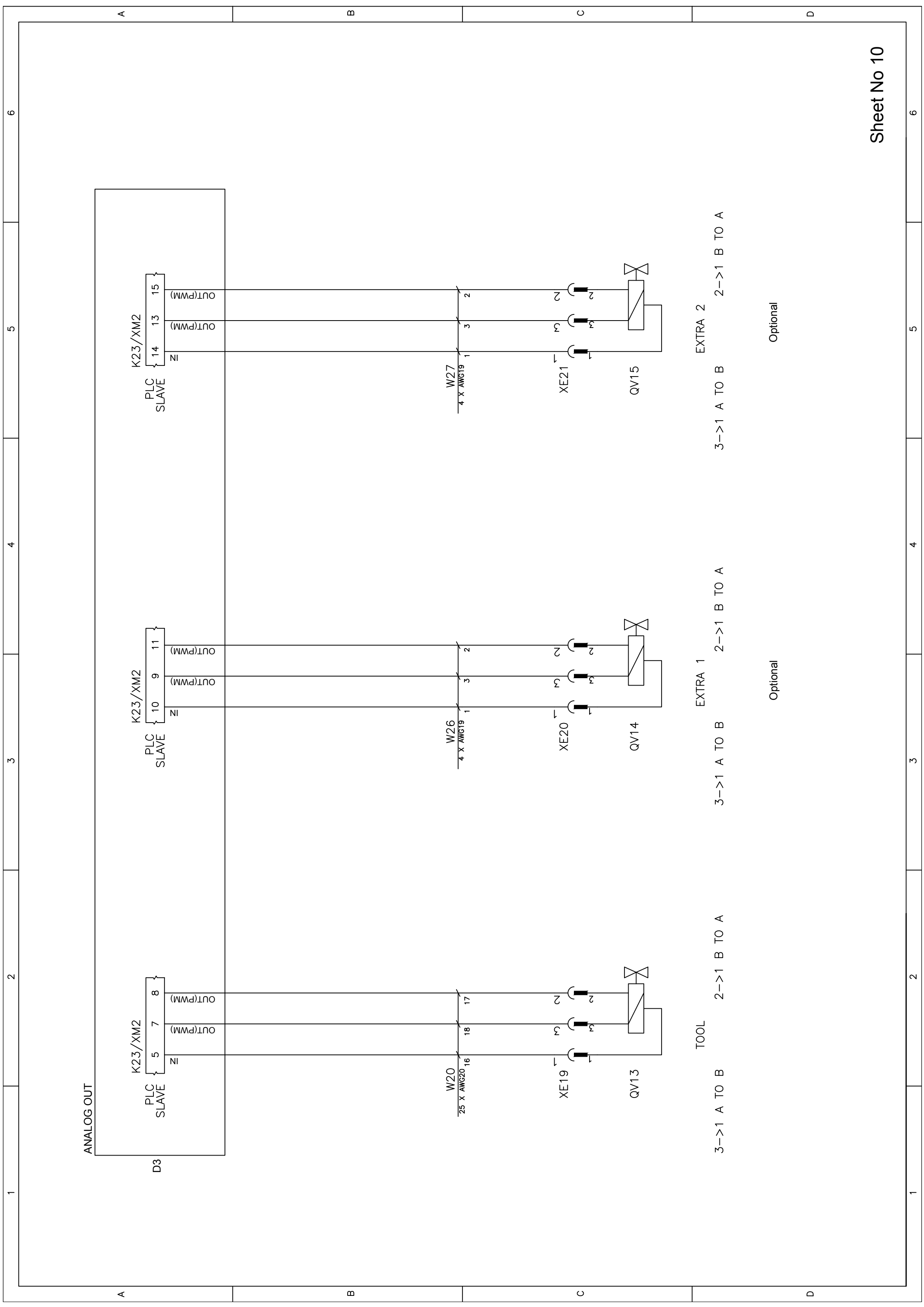
DXR 250 FRONT DOZEBLADE

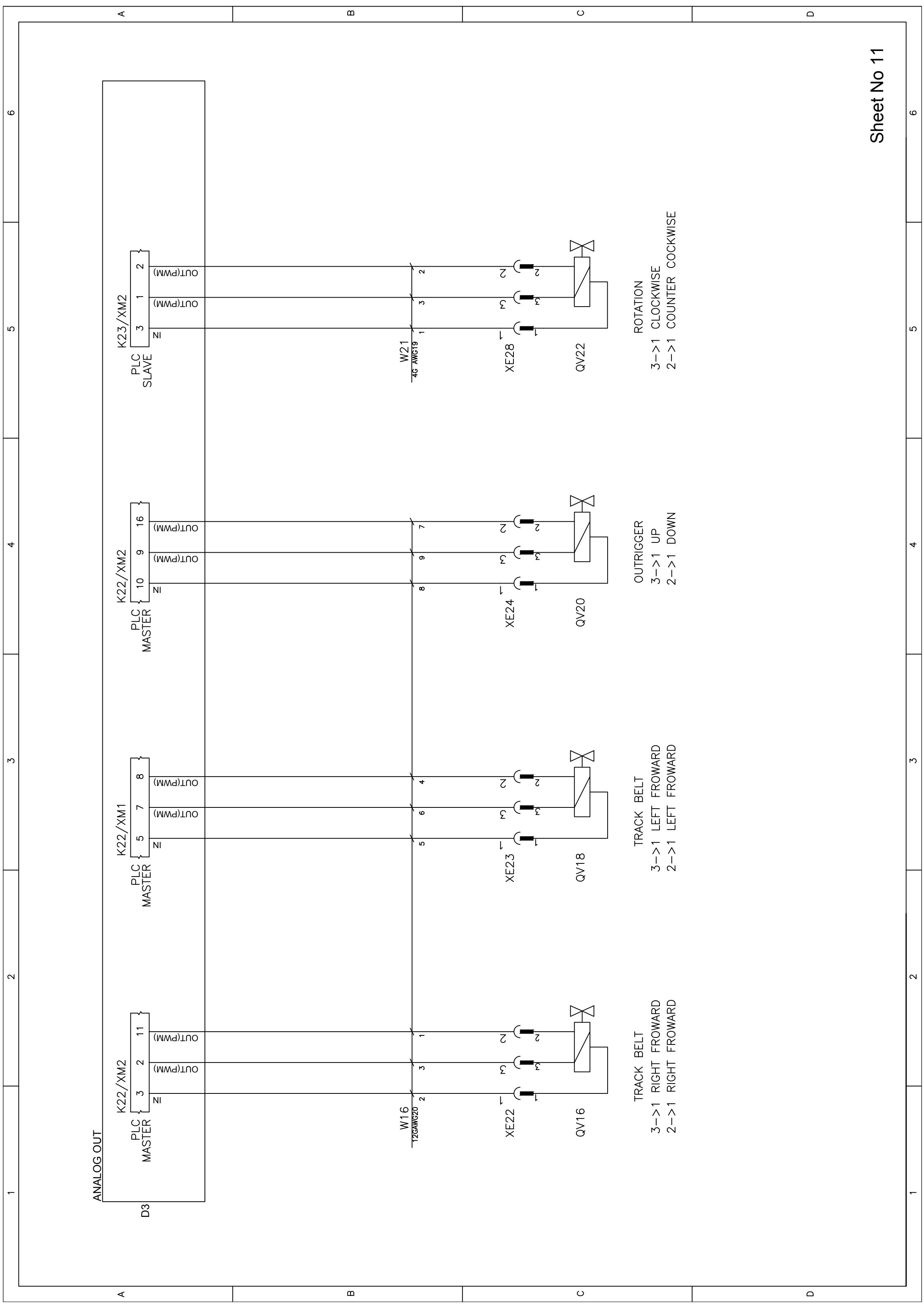
DXR 250 NOT USED

DXR 250 NOT USED

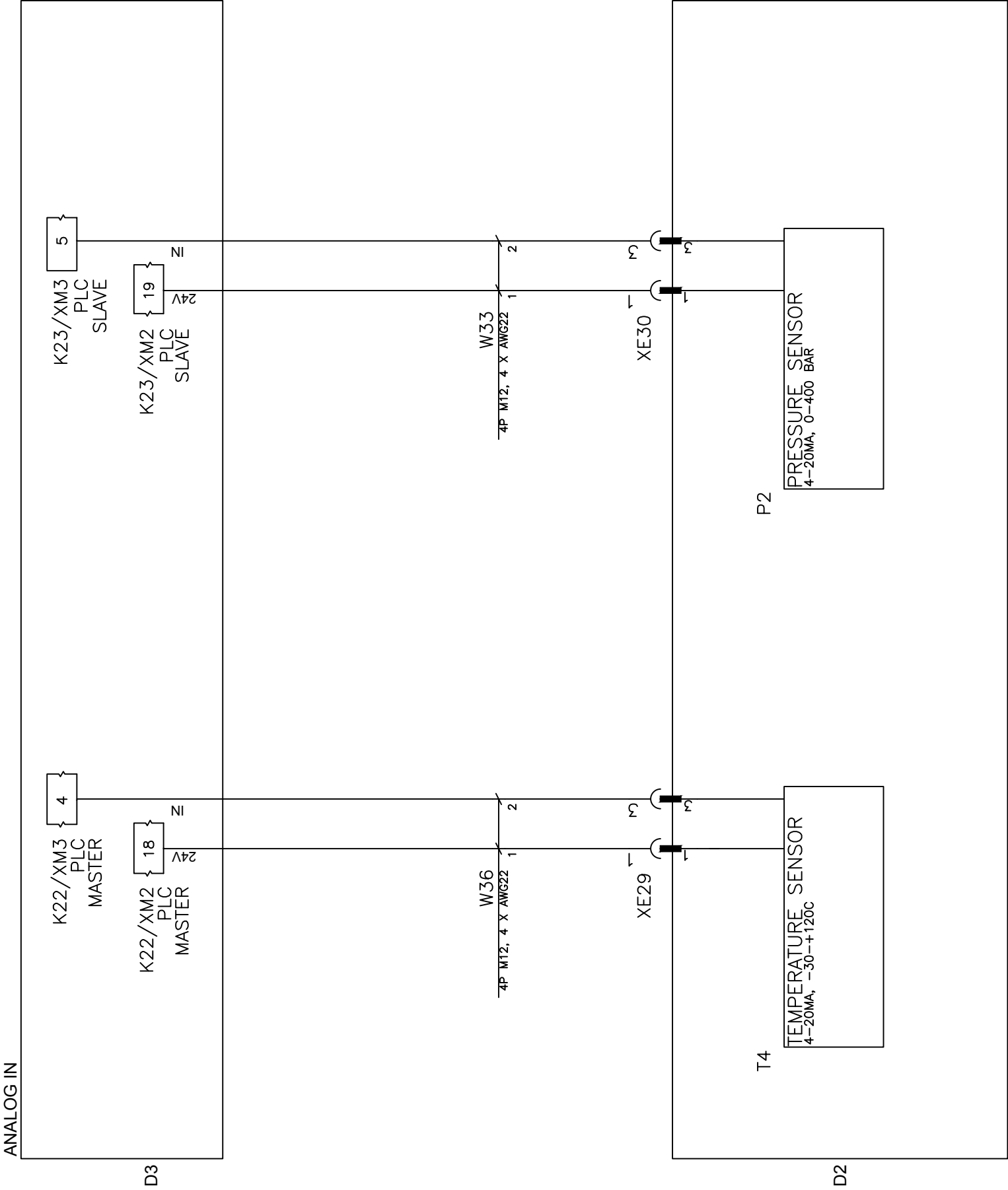
DIGITAL IN/OUT

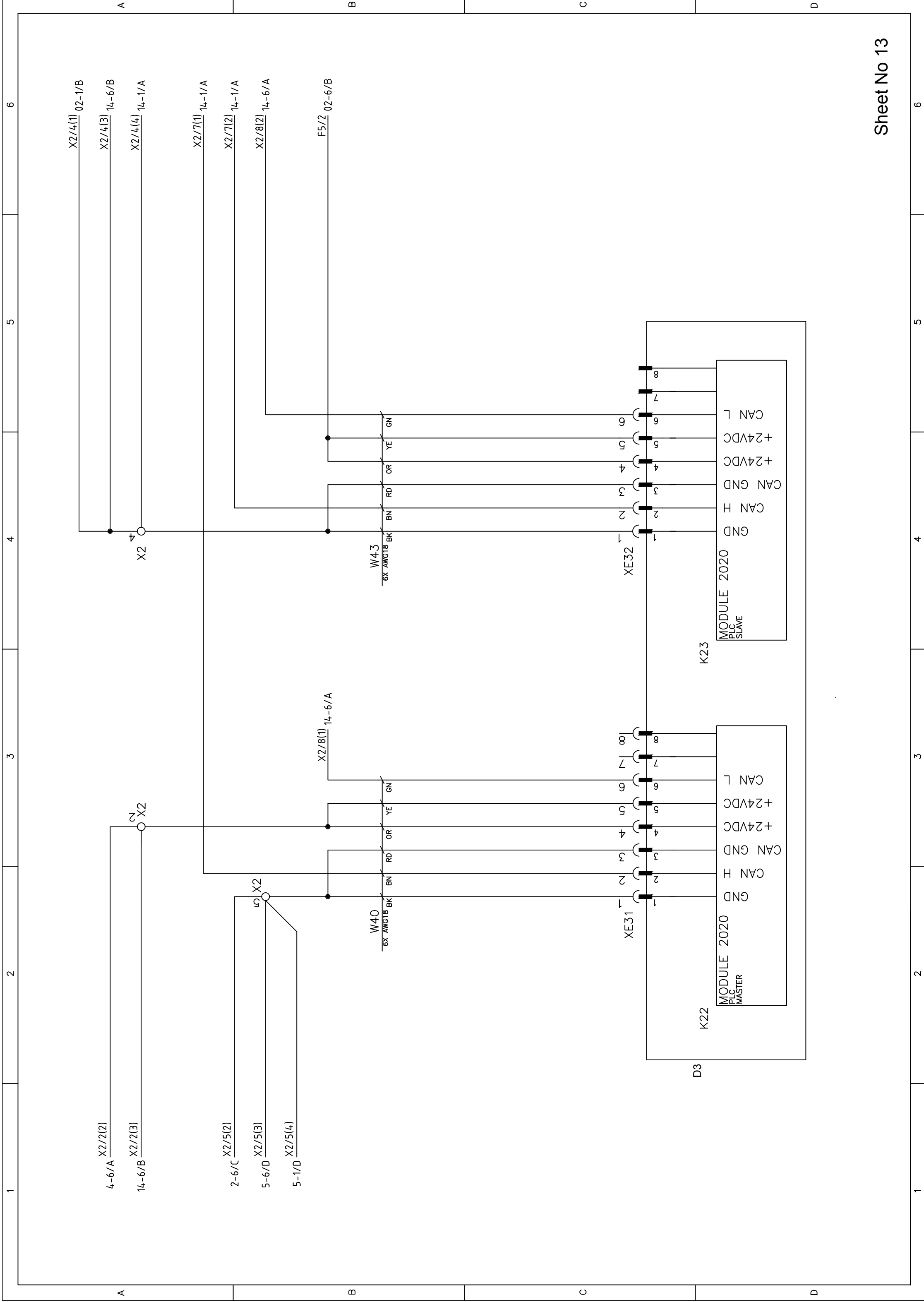


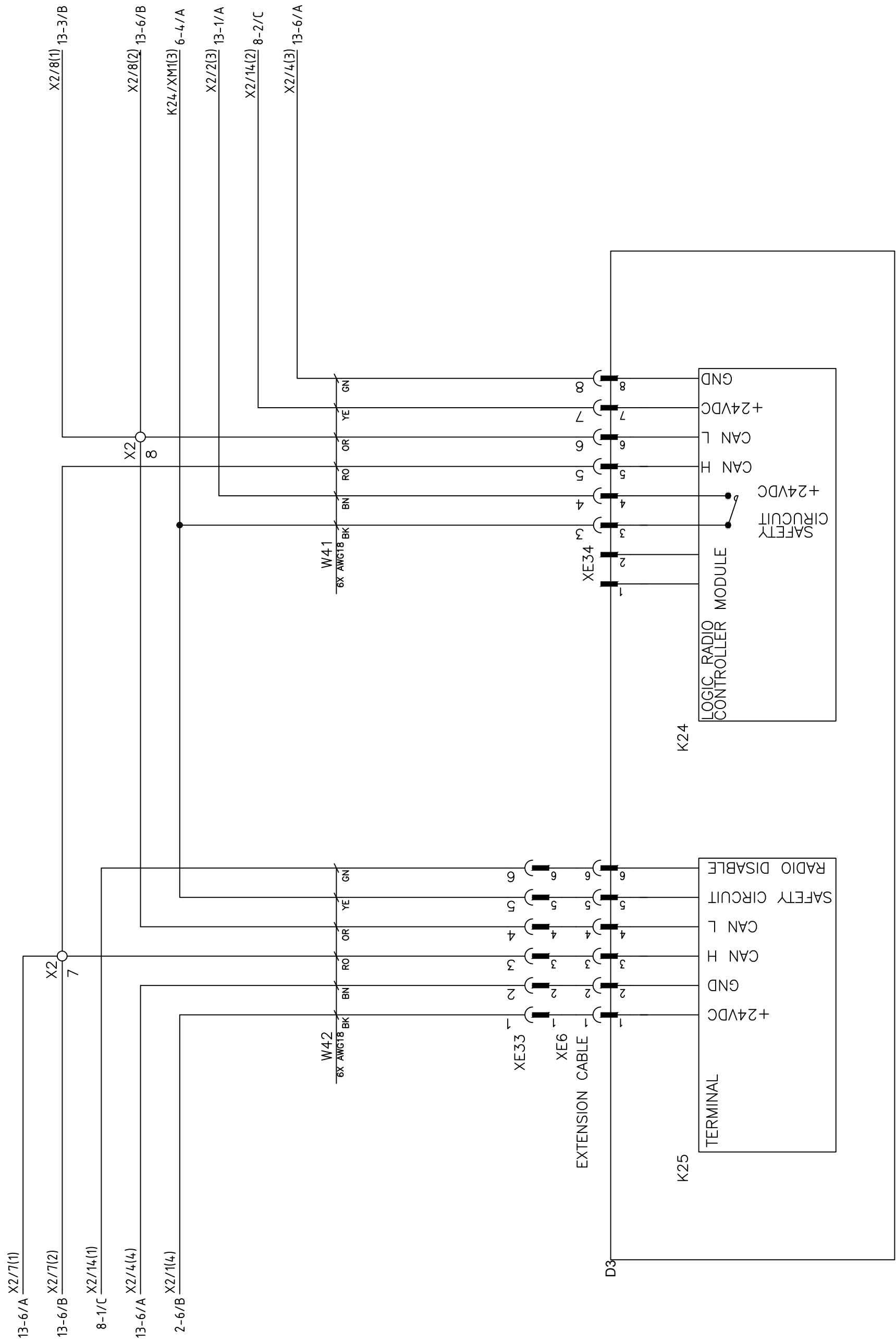




Sheet No 11

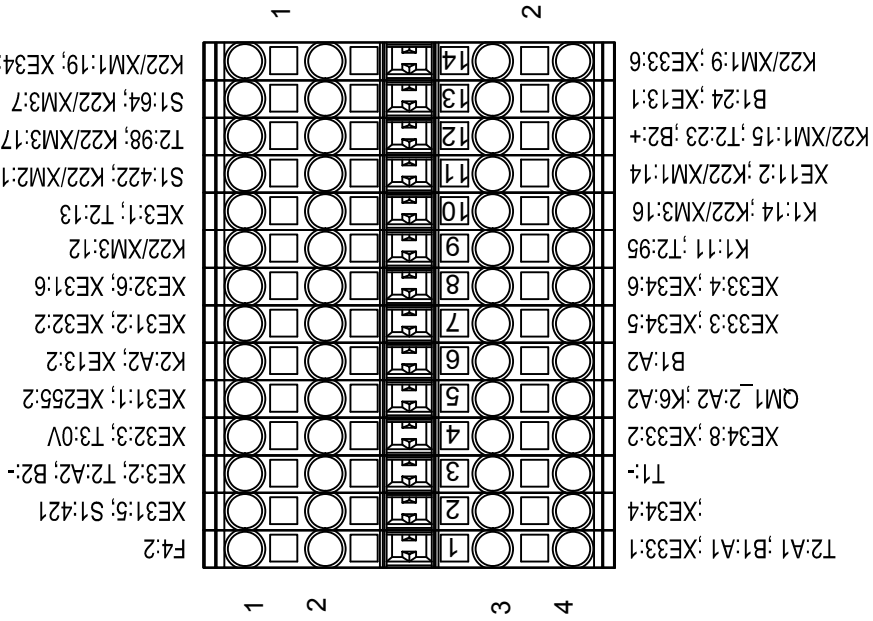
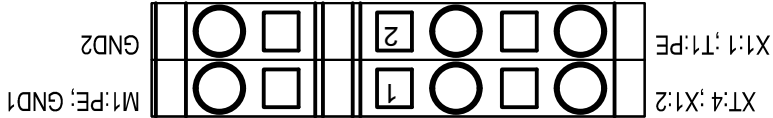




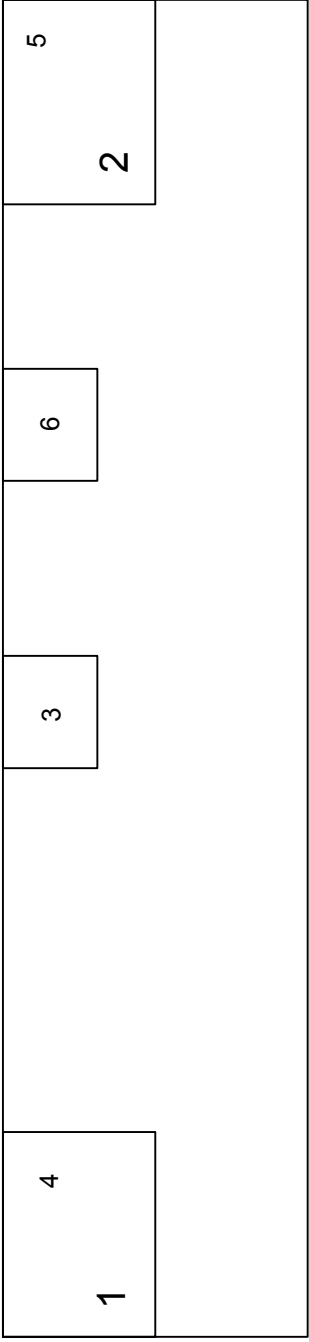


X1	
Number	Jumper
1	
2	

X2		Function
Number	Jumper	
1		+24V
2		+24V
3		GND
4		GND
5		GND
6		GND
7		CAN H
8		CAN L
9		PLC 0V
10_1		Warning Lamp
10_2		Phase ERROR
11_1		PLC -> Safety Relay
11_2		Pressure Control
12_1		Soft Start - Over Load
12_2		Soft Start - Bypassed
13_1		Emergency Maneuver
13_2		Safety Relay -> Valve
14_1		Radio Disable
14_2		Power - Radio



Description of S1-block					
	2NC (Effected by turning knob left, fixed position)	1NC+1NO (Effected by turning knob left, fixed position)		1 NO (Effected by turning knob right, retractive)	
Number marking on block	11	21	1	3	
Number marking in schematics	111	421	31	63	23
Knob to the left, fixed position (For wireless operation)					
Knob in the middle position, fixed position (Emergency control mode)					
Knob to the right, Retractive from right Manuel start					
Number marking in schematics	112	422	32	64	24
Number marking on block	12	22	2	4	4
	Emergency stop	Recirculation pump	Emergency stop	PLC	Start



Right / Left in the table above refers to the knob seen from above. (Left = counterclockwise, Right = Clockwise)

TAGNAME	DESC	SH	REF
B1	Safety relay 24VDC, 2NO	4	2/B
B2	Hour Meter	5	5/B
B3	Pressure Guard	8	3/C
E1	LED	3	2/C
E2	LED	3	3/C
E3	LED	2	2/C
F1	Automatic fuse 5SY C4 3-pole 4A	1	3/B
F2	Fuseholder for automotive-type fuses, 1 fuse Jumper Bar 2-pole Blade Fuse 10A 32V	2	3/A
F3	Fuseholder for automotive-type fuses, 1 fuse Jumper Bar 2-pole Blade Fuse 10A 32V	2	5/A
F4	Fuseholder for automotive-type fuses, 1 fuse Jumper Bar 2-pole Blade Fuse 10A 32V	2	5/A
F5	Fuseholder for automotive-type fuses, 1 fuse End Plate 26x84,5 (HxB) Blade Fuse 10A 32V	2	6/A
K1	Phase seq. Relay 3x400V	1	4/C
K2	Rail-mounted relay 5A 24VDC	6	2/C
K22	Logic Controller Module 2020	13	2/D
K22/XM1	23-pol Socket Ampseal Gray Hylsa AWG16-20 Ampseal	6	2/A
K22/XM2	23-pol Socket Ampseal Blue Hylsa AWG16-20 Ampseal	3	5/A
K23	Logic Controller Module 2020	13	4/D
K23/XM1	23-pol Socket Ampseal Gray Hylsa AWG16-20 Ampseal	9	2/A
K23/XM2	23-pol Socket Ampseal Blue Hylsa AWG16-20 Ampseal	11	5/A
K23/XM3	23-pol Socket Ampseal Black Hylsa AWG16-20 Ampseal	12	4/A
K24	Radio	14	4/C
K25	Terminal Module 6-pol Socket Contact female 0.75-1mm	14	2/C
K3	Rail-mounted relay 5A 24VDC	6	4/C
K4	Rail-mounted relay 5A 24VDC	6	3/C
K5	Rail-mounted relay 5A 24VDC	6	3/C
K6	Relay 24V 2-Shifting Relay Holder	5	2/C

TAGNAME	DESC	SH	REF
M2		1	1/C
M2	FAN	2	3/C
M3	Refilling Pump	2	5/C
P1	Horn	3	4/C
P2	Pressure Gauge	12	4/C
Q1	MAIN CONTROL SWITCH 3-POLE	1	1/A
QM1_1	Reversing Contactor 22kW AUX. SWITCH BLOCK, 1 NO+1 NC	5	4/C
QM1_2	Included in 525 51 30 -01	5	3/C
QV1	Hyd. Valve	7	1/C
QV10	Hyd. Valve	9	4/C
QV11	Hyd. Valve	9	5/C
QV12	Hyd. Valve	9	6/C
QV13	Hyd. Valve	10	2/C
QV14	Hyd. Valve	10	3/C
QV15	Hyd. Valve	10	5/C
QV16	Hyd. Valve	11	1/C
QV18	Hyd. Valve	11	3/C
QV2	Hyd. Valve	7	2/C
QV20	Hyd. Valve	11	4/C
QV22	Hyd. Valve	11	5/C
QV3	Hyd. Valve	7	3/C
QV4	Hyd. Valve	7	3/C
QV5	Hyd. Valve	9	1/C
QV6	Hyd. Valve	7	4/C
QV7	Hyd. Valve	7	5/C
QV8	Hyd. Valve	9	2/C
QV9	Hyd. Valve	9	3/C
S1	Connector Block 1NO + 1NC Connector Block 2NC Mounting Ring Switch Black Connector Block 1NO	5	2/A
S2	Emergency Stop	4	3/A
S3	EM Stop Button EM Stop Contact Blocks + Holder	4	3/B
S4	Thermistor Relay	8	3/C
T1	24VDC Power Supply 3ph	1	3/C
T2	Soft Starter 200-460V AC, 3-Phase 30A Auxiliary Contact Block, 1 NO+1 NC	5	4/B
T3	Fan Control	2	3/B
T4	Temp Sensor Hydraulic Oil	12	2/C

TAGNAME	DESC	SH	REF
W1	4G AWG8 JZ602 Glands Skintop M32x1.5 Nut M32x1.5	1	1/A
W10	2GAWG19 OZ603	7	5/B
W11	12GAWG20 JZ603	7	1/B
W15	2GAWG19 OZ603	9	1/B
W16	12GAWG20 JZ603	11	1/B
W2	7GAWG10 ÖPVC-NR Glands Skintop M32x1.5 Nut M32x1.5	1	1/C
W20	25G AWG19 JZ603	9	2/B
W21	4GAWG19 JZ603	11	5/B
W26	Valve connector 3+GND 4x0,75	10	3/B
W27	Valve connector 3+GND 4x0,75	10	5/B
W3	2GAWG19 OZ603 Glands Skintop M32x1.5 Nut M32x1.5 Multihole seal 3x8mm	2	2/C
W30	2GAWG19 OZ603	7	4/B
W31	2GAWG19 OZ603	3	2/B
W32	2GAWG19 OZ603	3	3/B
W33	4P M12 Female 4x0,34 L=1,5m	12	4/B
W34	2GAWG19 OZ603	3	4/B
W35	2GAWG19 OZ603	8	3/B
W36	4P M12 Female 4x0,34 L=1,5m	12	3/B
W37	2GAWG19 OZ603	8	3/B
W4	18GAWG19 JZ603 Glands Skintop M25x1.5 Nut M25x1.5	2	4/B
W40	6GAWG18 LiYY UL SV Multihole seal 3x8mm Glands Skintop M32x1.5 Nut M32x1.5	13	2/B
W41	8P M12 With Cable 8GAWG22	14	4/B
W42	6GAWG18 LiYY UL SV	14	2/B
W43	6GAWG18 LiYY UL SV	13	4/B
W5	3GAWG16 OZ603	2	3/C
W6	2GAWG19 OZ603 Glands Skintop M32x1.5 Nut M32x1.5 Multihole seal 4x7mm	2	5/C
W7	5GAWG19 JZ603	4	3/A

A

B

C

D

TAGNAME	DESC	SH	REF
W1	4G AWG8 JZ602 Glands Skintop M32x1.5 Nut M32x1.5	1	1/A
W10	2GAWG19 OZ603	7	5/B
W11	12GAWG20 JZ603	7	1/B
W15	2GAWG19 OZ603	9	1/B
W16	12GAWG20 JZ603	11	1/B
W2	7GAWG10 ÖPVC-NR Glands Skintop M32x1.5 Nut M32x1.5	1	1/C
W20	25G AWG19 JZ603	9	2/B
W21	4GAWG19 JZ603	11	5/B
W26	Valve connector 3+GND 4x0,75	10	3/B
W27	Valve connector 3+GND 4x0,75	10	5/B
W3	2GAWG19 OZ603 Glands Skintop M32x1.5 Nut M32x1.5 Multihole seal 3x8mm	2	2/C
W30	2GAWG19 OZ603	7	4/B
W31	2GAWG19 OZ603	3	2/B
W32	2GAWG19 OZ603	3	3/B
W33	4P M12 Female 4x0,34 L=1,5m	12	4/B
W34	2GAWG19 OZ603	3	4/B
W35	2GAWG19 OZ603	8	3/B
W36	4P M12 Female 4x0,34 L=1,5m	12	3/B
W37	2GAWG19 OZ603	8	3/B
W4	18GAWG19 JZ603 Glands Skintop M25x1.5 Nut M25x1.5	2	4/B
W40	6GAWG18 LiYY UL SV Multihole seal 3x8mm Glands Skintop M32x1.5 Nut M32x1.5	13	2/B
W41	8P M12 With Cable 8GAWG22	14	4/B
W42	6GAWG18 LiYY UL SV	14	2/B
W43	6GAWG18 LiYY UL SV	13	4/B
W5	3GAWG16 OZ603	2	3/C
W6	2GAWG19 OZ603 Glands Skintop M32x1.5 Nut M32x1.5 Multihole seal 4x7mm	2	5/C
W7	5GAWG19 JZ603	4	3/A

TAGNAME	DESC	SH	REF
XE4	2-pole socket, Deutsch Socket, Deutsch, Size AWG12-14 Wedge	2	5/C
XE5	2-pol Housing M/P280 Cable Seal 2,9-2,00	2	3/C
XE6	Extension Cable - CAN	14	2/C
XE7	DIN Connector 2+PE, LED indicator	7	1/C
XE8	DIN Connector 2+PE, LED indicator	7	2/C
XE9	DIN Connector 2+PE, LED indicator	7	3/C
XT	3-Phase Socket 63A	1	1/A

A

B

C

D

DXR 250, 270, 300
Not used

