

	1	2	3	4	5	6	7	8						
A	=A-FRAME STERN								A					
B	Customer : CNP Freire Ship/Hull : MBARI Project no. : 4/60185 Drawing no.: E-4501								B					
C									C					
D									D					
E									E					
F									F					
03		Issued for production		16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	 A MacGregor company	Front Page A-Frame Stern	=A-FRAME STERN		E-4501- 00	
02		For customer review		29.08.2022	RSI	User	KS							
01		For customer review		22.12.2021	KS	Approved	GM							
Rev.		Description		Date	Rev. by	Standard						Rev. 03	1 / 1	
Printed: 16-Feb-23 07:14														
Template:														

Drawing no.: E-4501

1

2

3

4

5

6

7

8

A

=A-FRAME STERN

B

Customer : CNP Freire

Ship/Hull : MBARI

Project no. : 4/60185

Drawing no.: E-4501

C

D

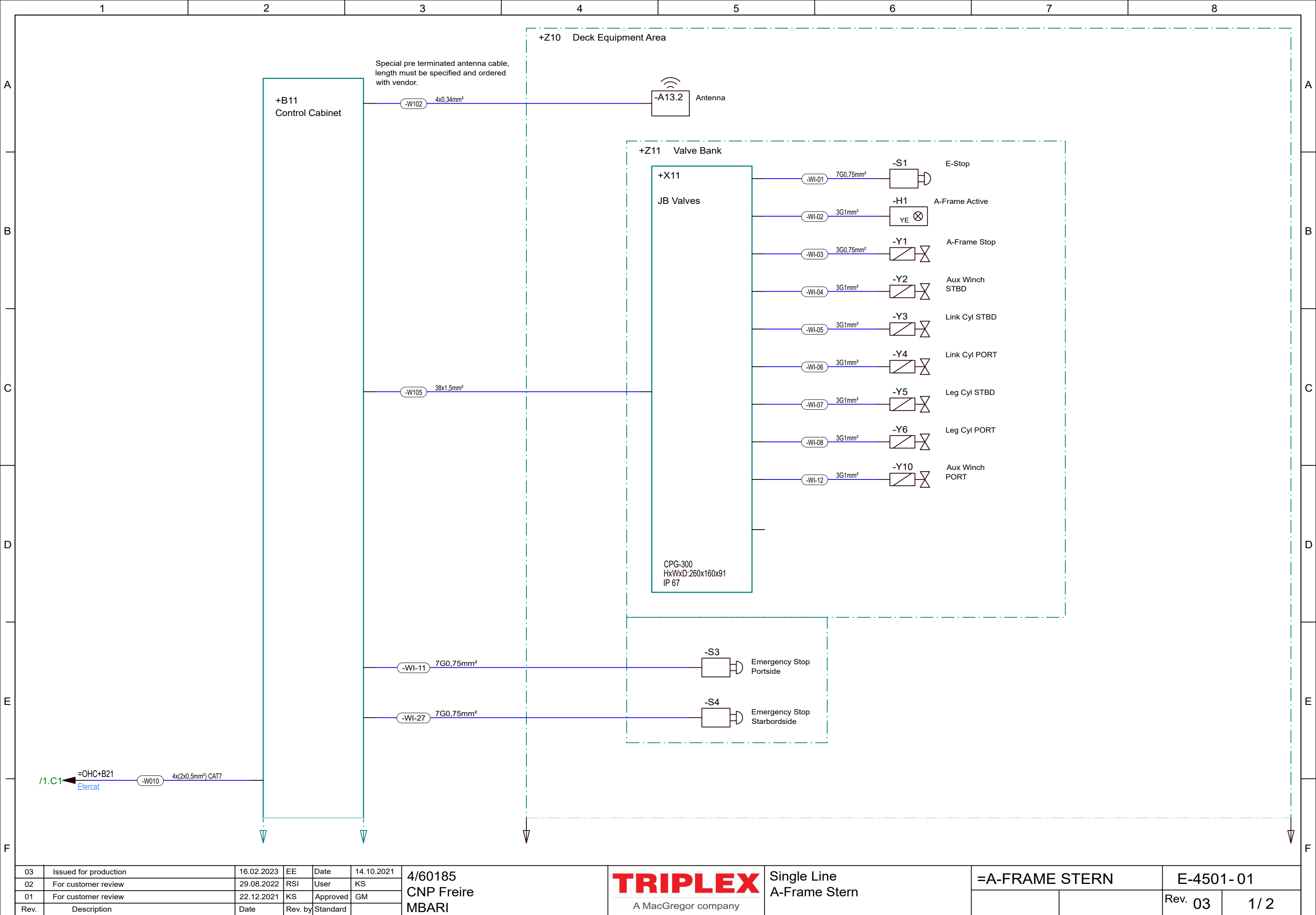
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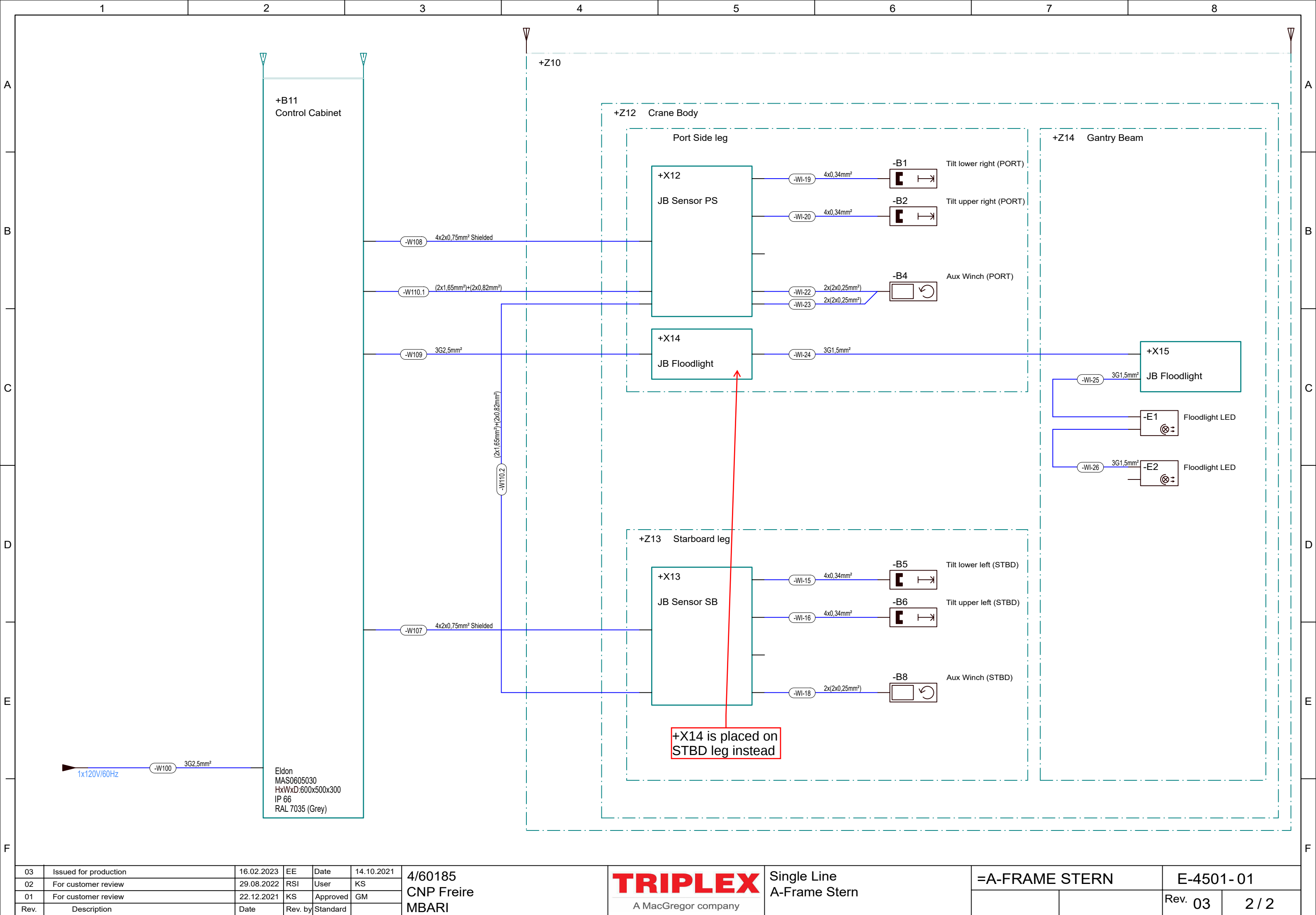
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03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Front Page A-Frame Stern	=A-FRAME STERN		E-4501- 00	
02	For customer review	29.08.2022	RSI	User	KS							
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard							Rev. 03	1 / 1

Printed: 16-Feb-23 07:14

Template:





03	Issued for production	16.02.2023	EE	Date	14.10.2021
02	For customer review	29.08.2022	RSI	User	KS
01	For customer review	22.12.2021	KS	Approved	GM
Rev.	Description	Date	Rev. by	Standard	

4/60185
CNP Freire
MBARI

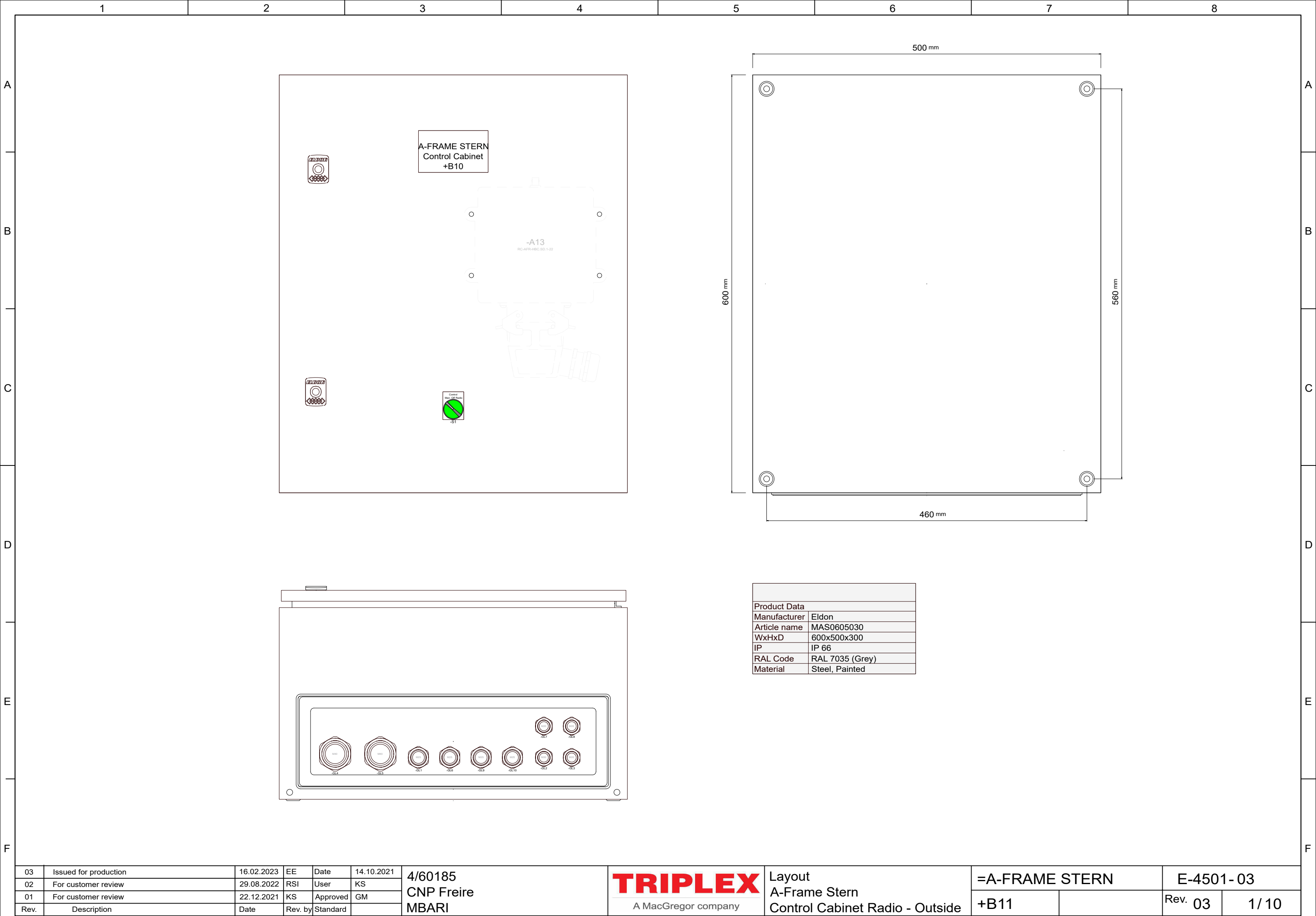


Single Line
A-Frame Stern

=A-FRAME STERN

E-4501- 01

Rev. 03 2 / 2



03	Issued for production	16.02.2023	EE	Date	14.10.2021
02	For customer review	29.08.2022	RSI	User	KS
01	For customer review	22.12.2021	KS	Approved	GM
Rev.	Description	Date	Rev. by	Standard	

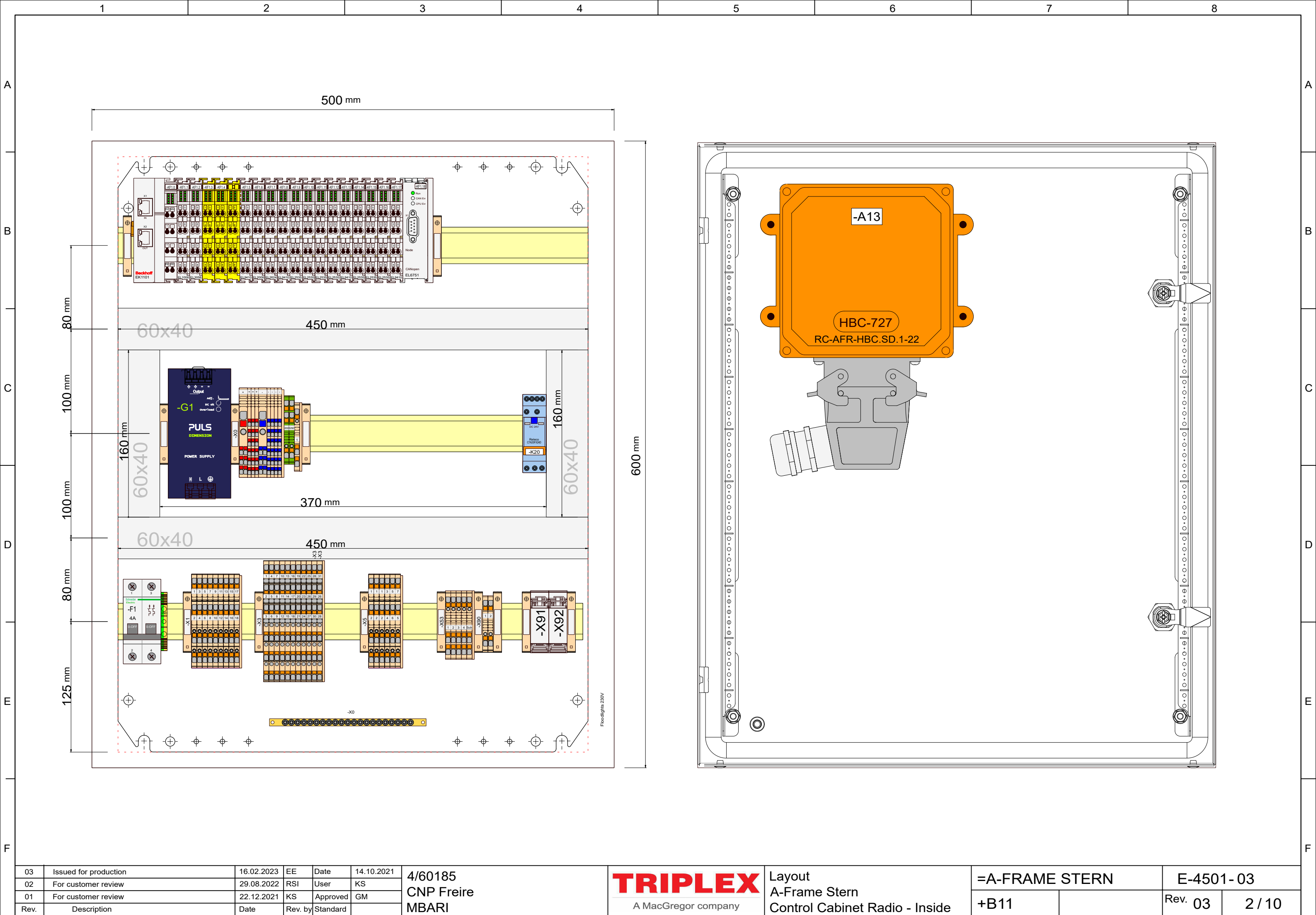
4/60185
CNP Freire
MBARI



Layout
A-Frame Stern
Control Cabinet Radio - Outside

=A-FRAME STERN
+B11

E-4501- 03
Rev. 03 1 / 10



03	Issued for production	16.02.2023	EE	Date	14.10.2021
02	For customer review	29.08.2022	RSI	User	KS
01	For customer review	22.12.2021	KS	Approved	GM
Rev.	Description	Date	Rev. by	Standard	

4/60185
CNP Freire
MBARI

TRIPLEX
A MacGregor company

Layout
A-Frame Stern
Control Cabinet Radio - Inside

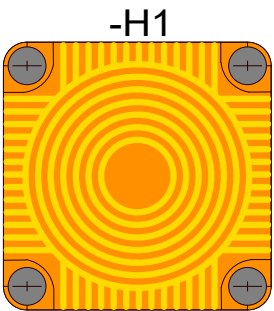
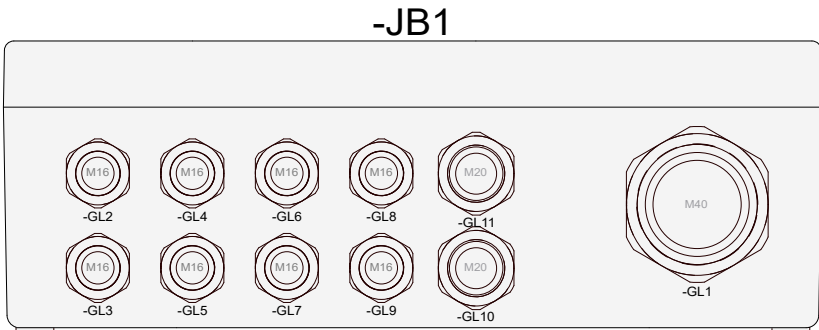
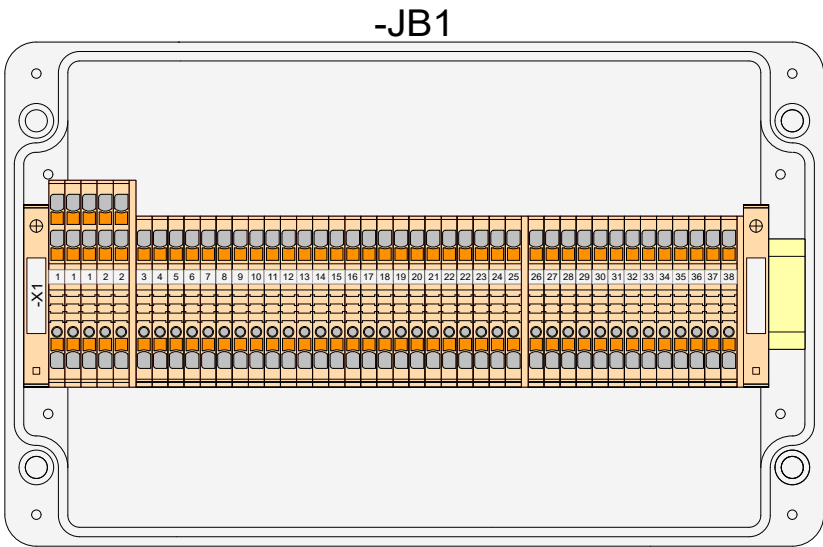
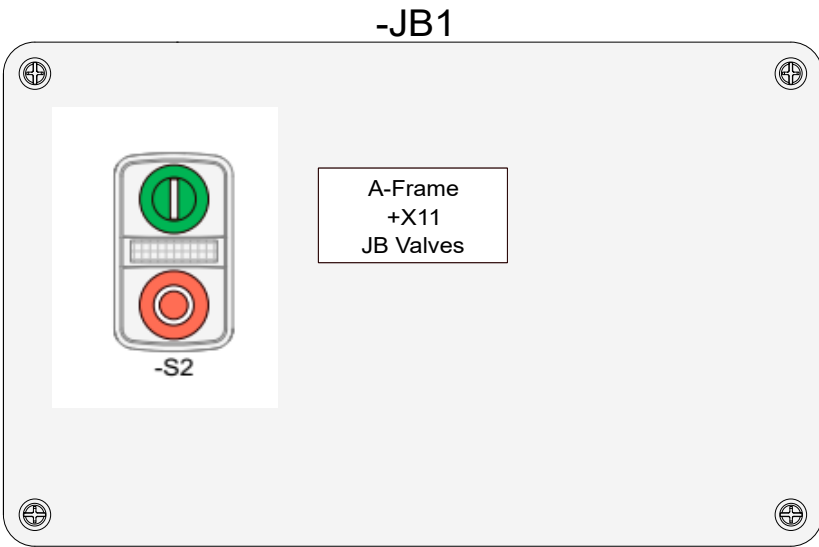
=A-FRAME STERN

+B11

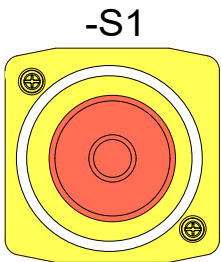
E-4501-03

Rev. 03

2 / 10



Inluded Cable Gland and 2
meter cable, ROFLEX 3G1
pre terminated.



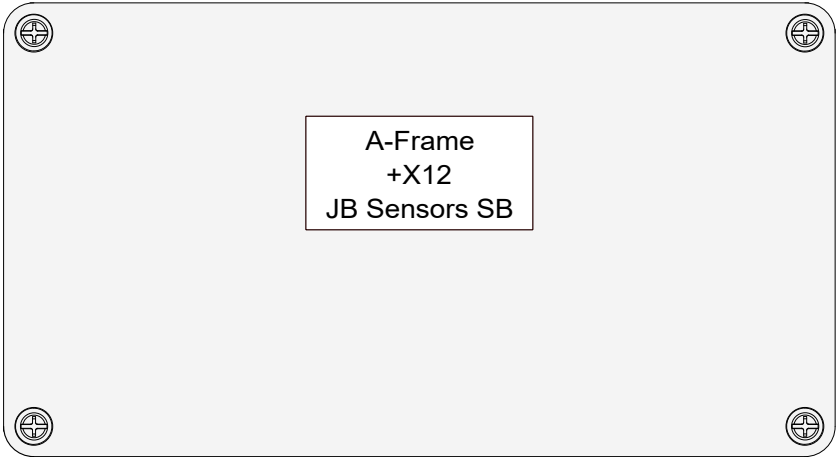
Front View

Inluded Cable Gland and 2
meter cable, ROFLEX 7G0.75
pre terminated.

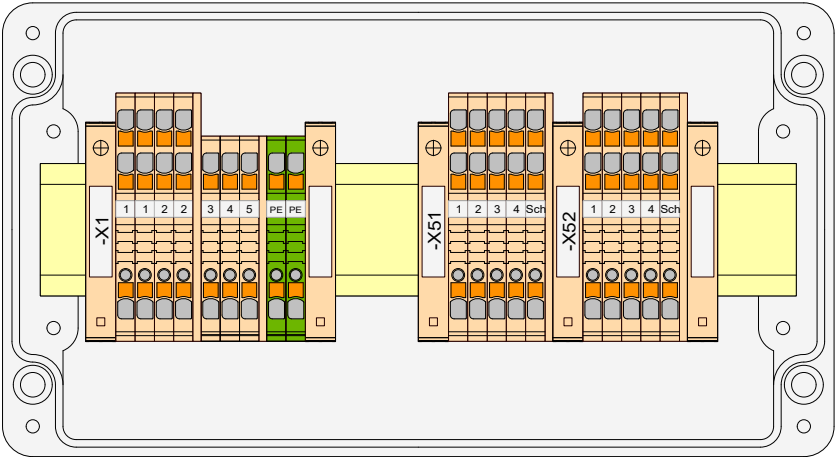
Component installed on equipment

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern JB Valves	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS				+X11		Rev. 03	3 / 10
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								

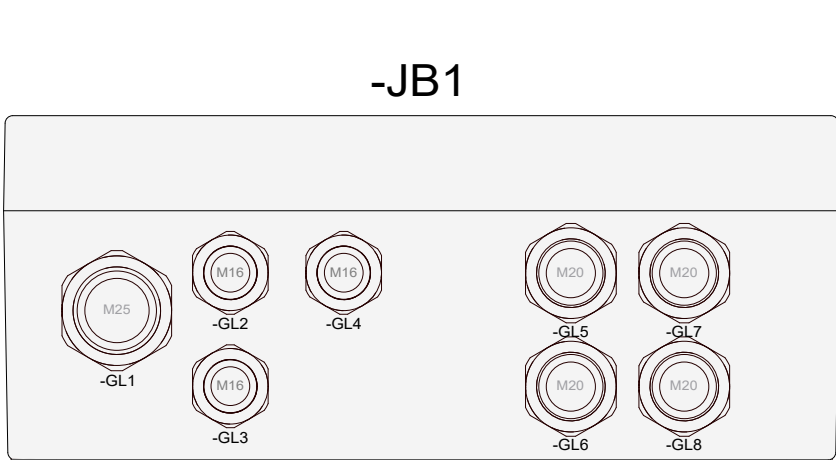
-JB1



-JB1



-JB1



Note:
Arrange glands to make room for additional glands.
-GL4, -GL6 and -GL8 to be equipped with sealing plug.

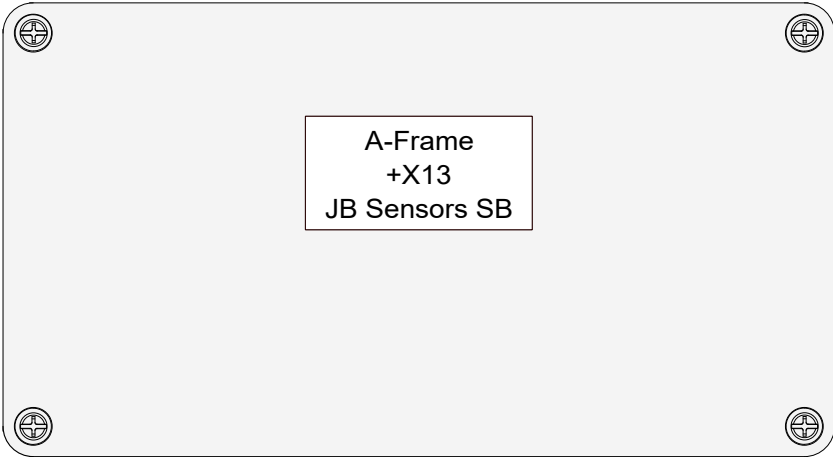
Bernstein
CPG-240
220x120x90
IP 67
RAL 7000 (Grey)

Rear View

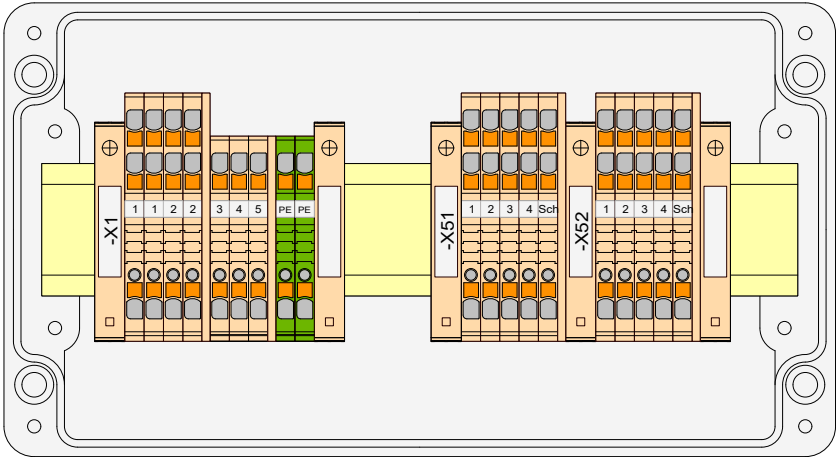
Component installed on equipment

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern JB Port Side Sensors	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS				+X12		Rev. 03	4 / 10
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								

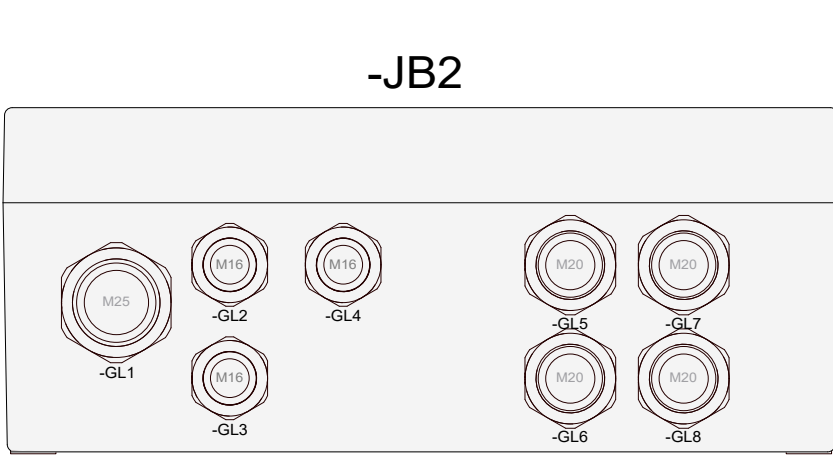
-JB2



-JB2



-JB2



Note:
Arrange glands to make room for additional glands.
-GL4, -GL6 and -GL8 to be equped with sealing plug.

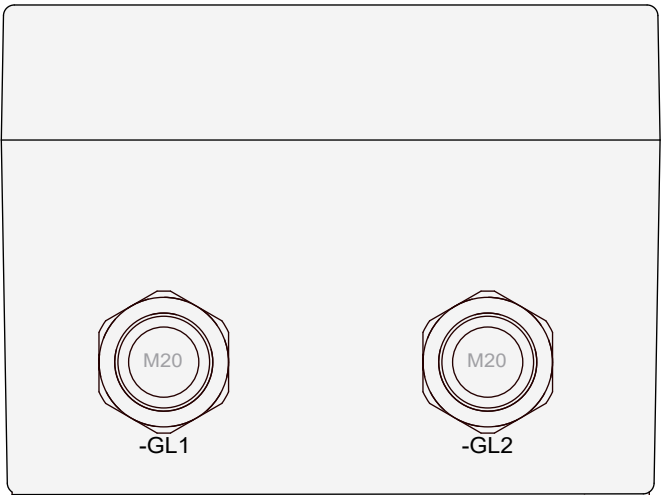
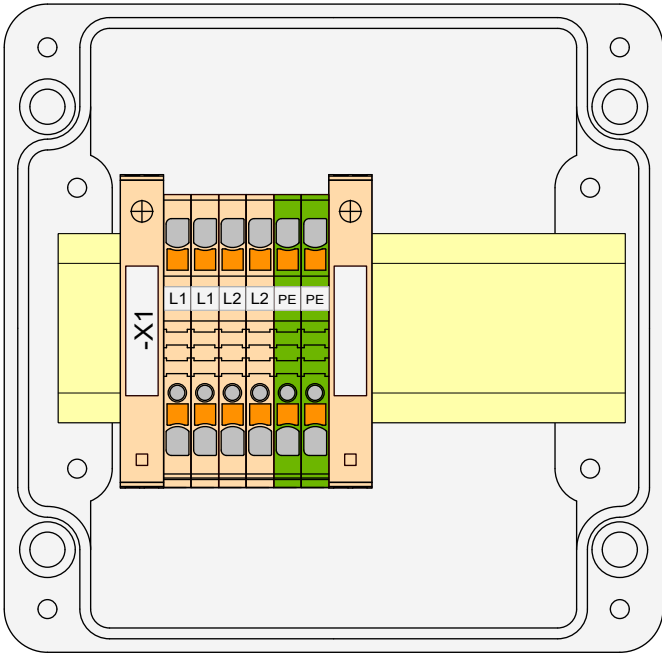
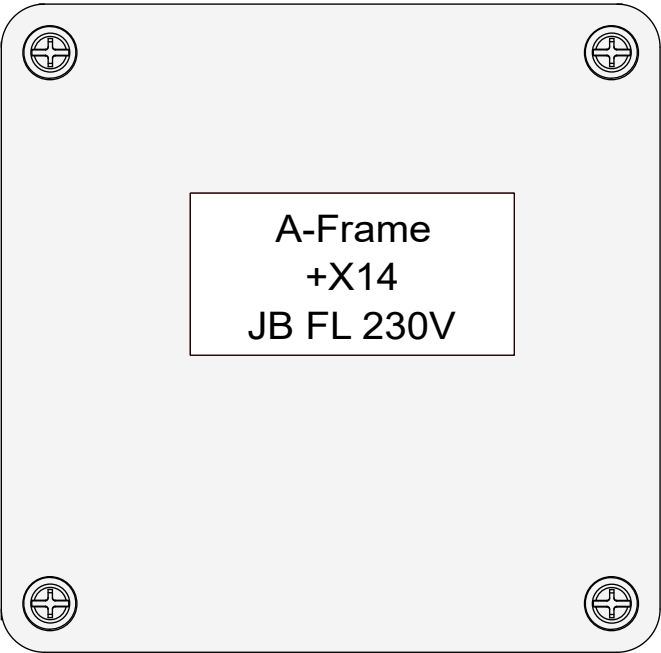
Bernstein
CPG-240

IP 67
RAL 7000 (Grey)

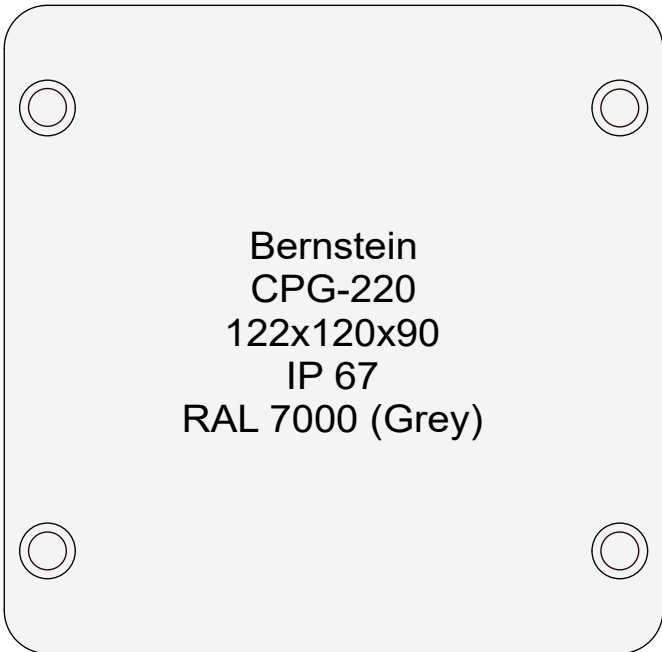
Rear View

Component installed on equipment

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern JB Stbd. Side Sensors	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS				+X13		Rev. 03	5 / 10
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								

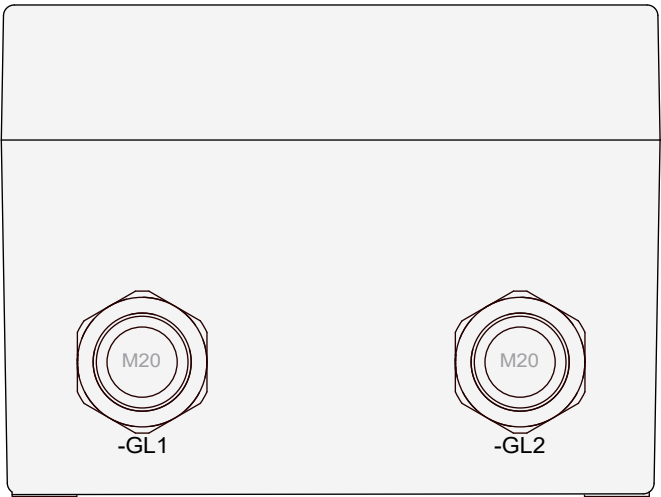
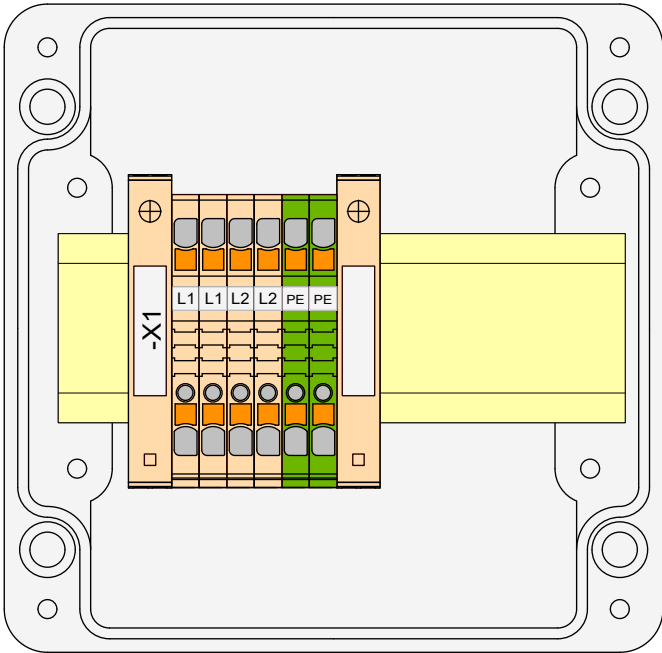
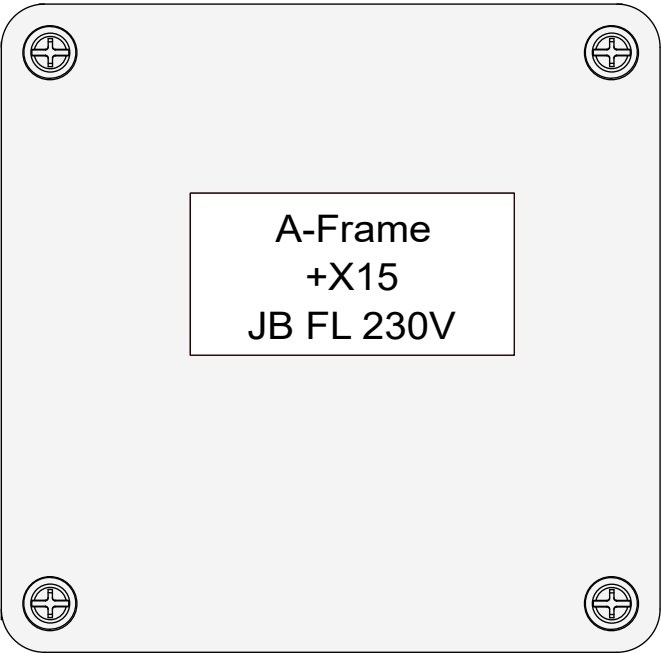


Arrange glands to
make room for
aditional glands

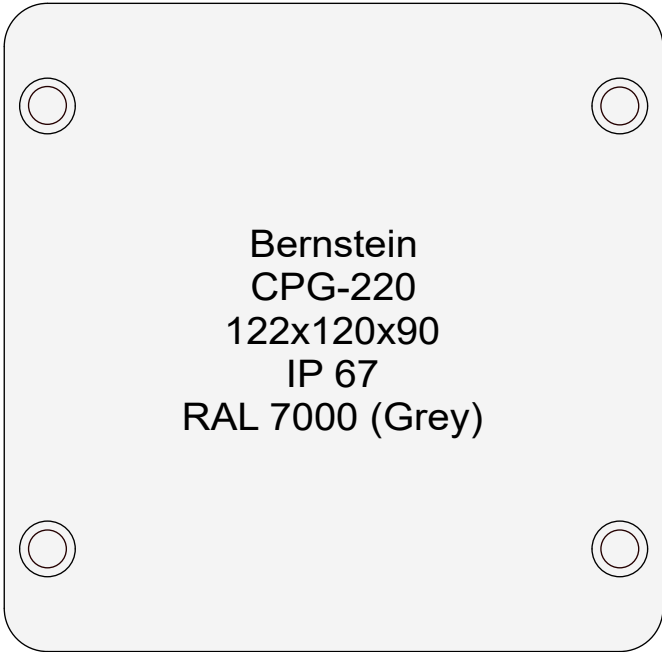


Component installed on equipment

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern JB Floodlights 230V	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS				+X14		Rev. 03	6 / 10
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								



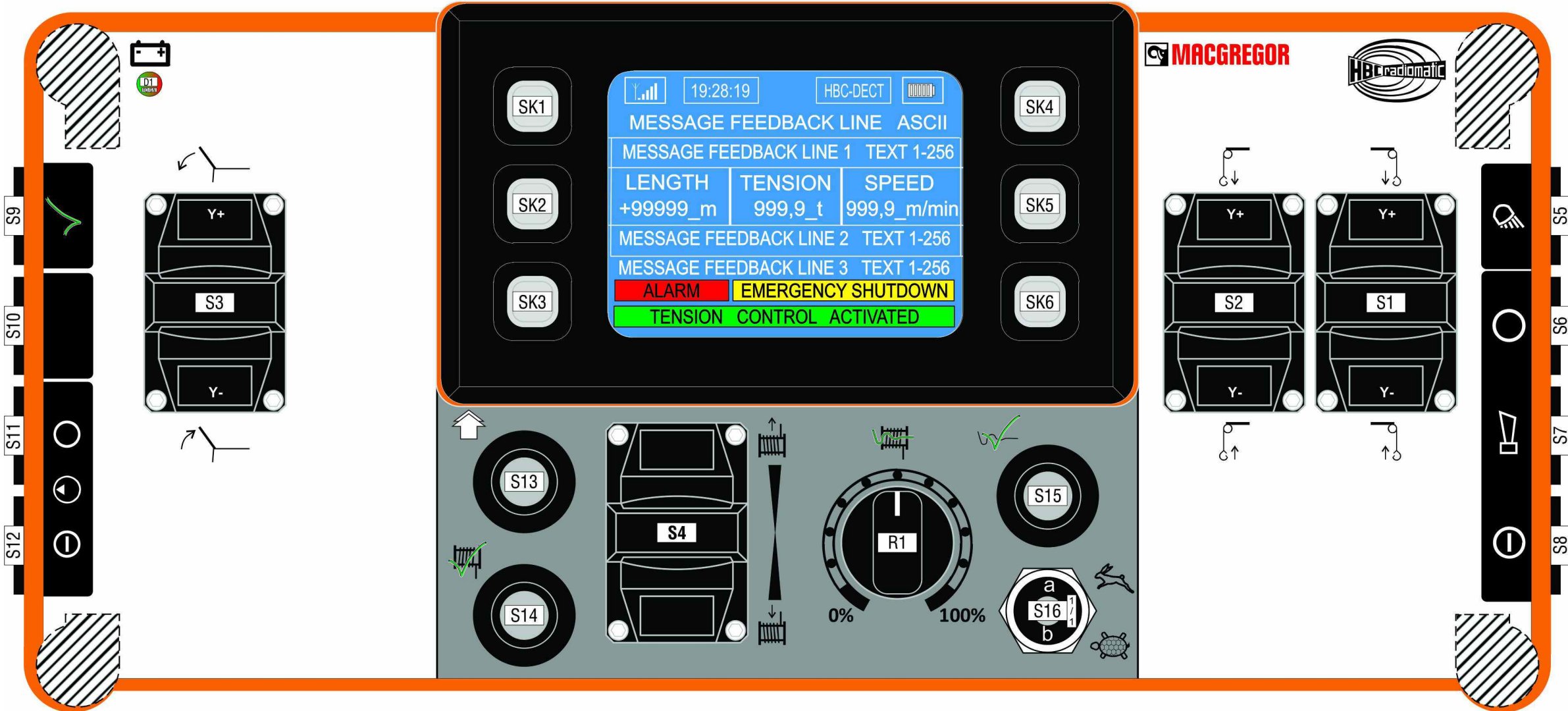
Arrange glands to
make room for
aditional glands



Component installed on equipment

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern JB Floodlights 230V	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS							
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard					+X15		Rev. 03	7 / 10

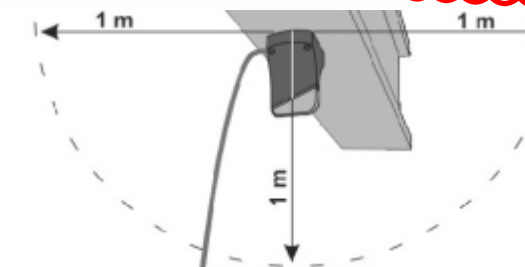
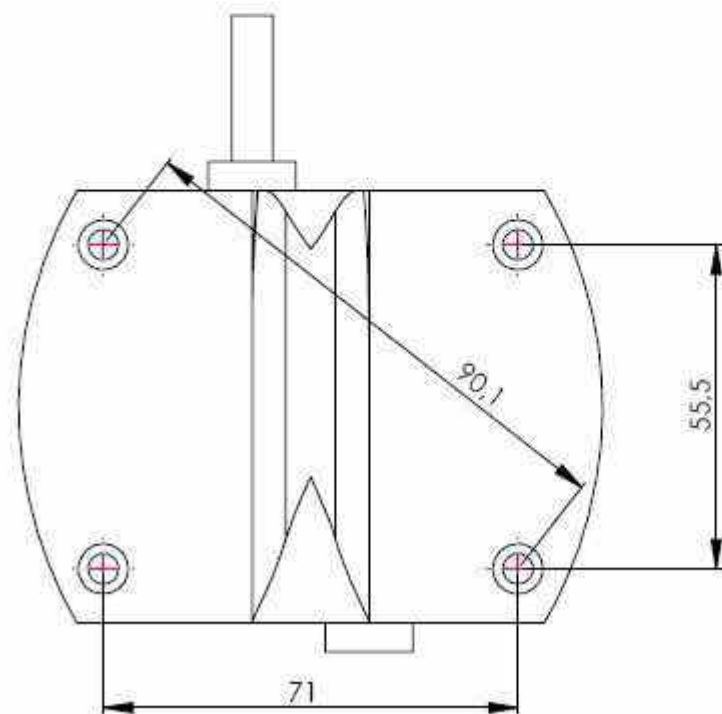
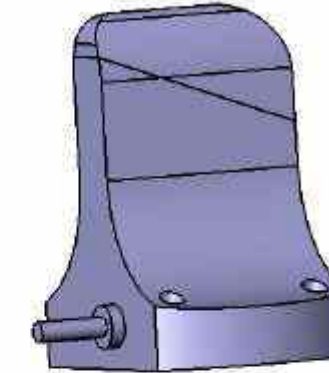
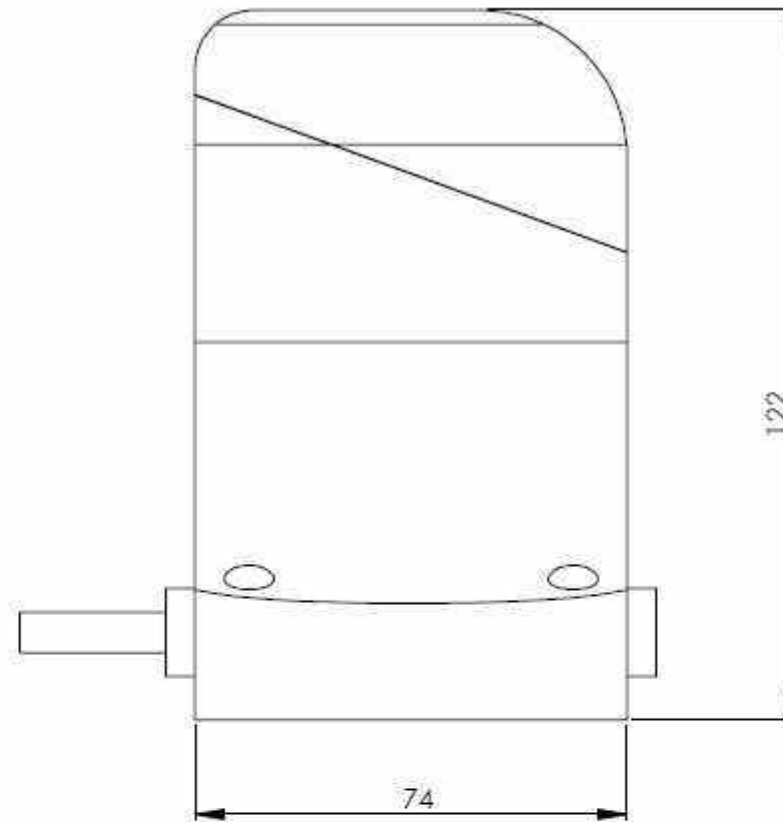
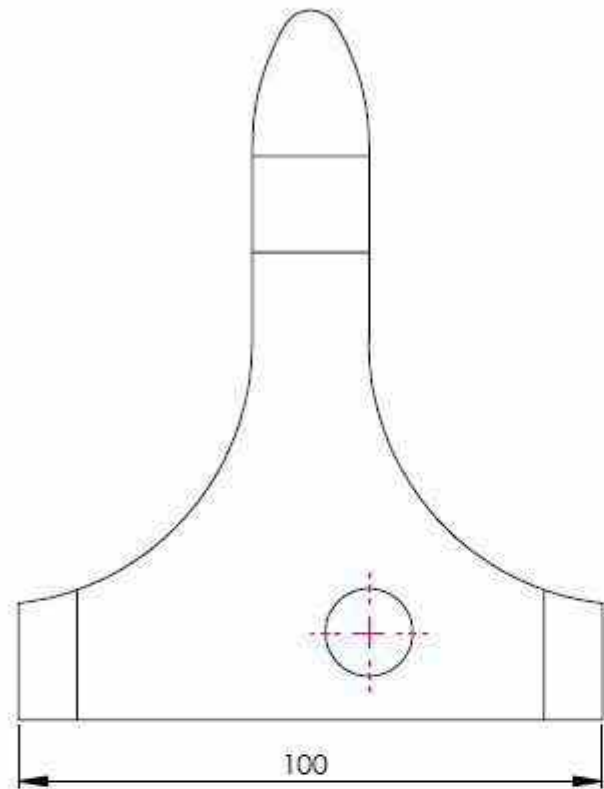
-A13.3



03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern RC Transmitter	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS				+B11		Rev. 03	8 / 10
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								

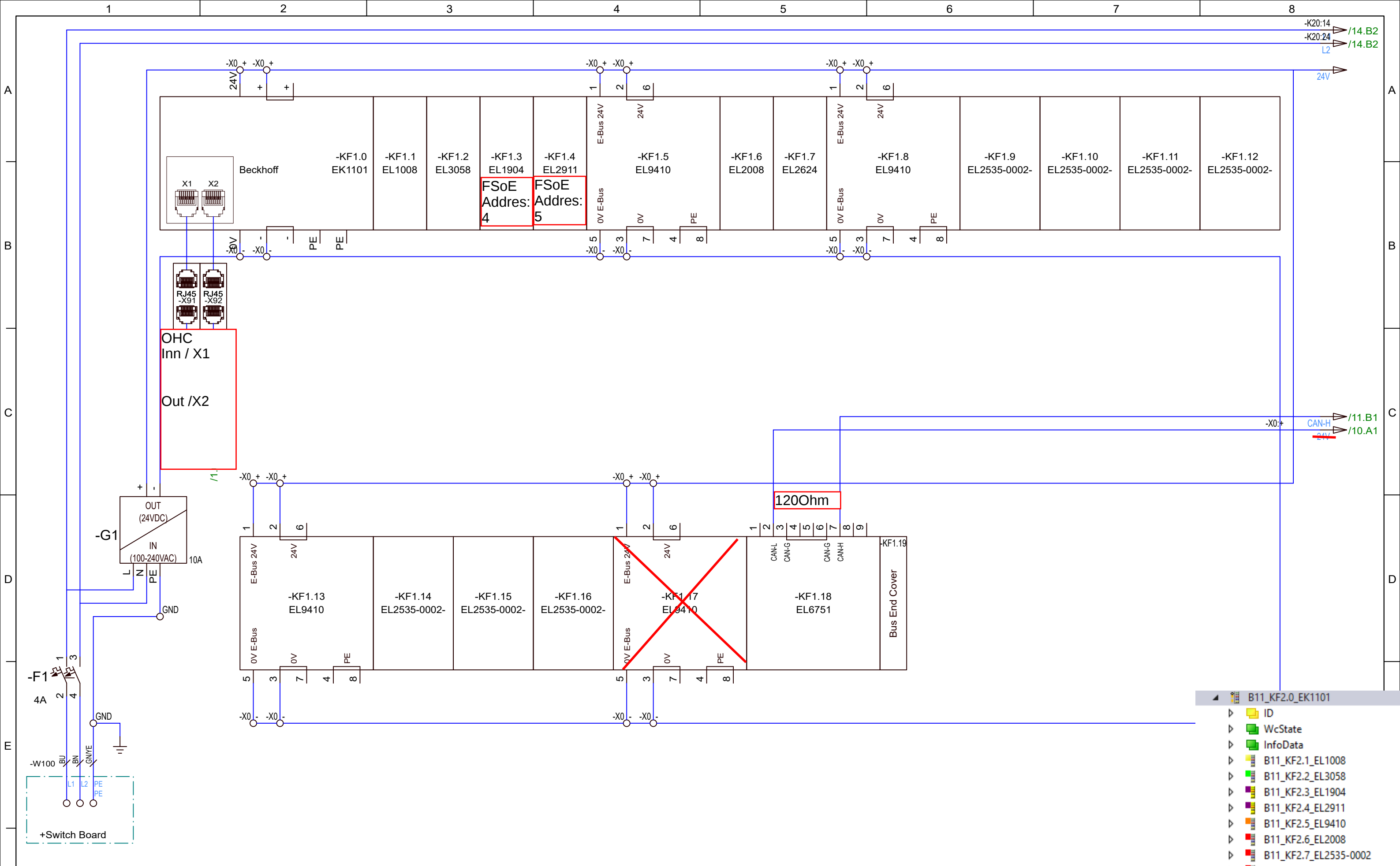


03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern RC Transmitter Side View	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS							
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard					+B11		Rev. 03	9 / 10



- To be placed outdoor as near as possible to the main control cabinet.
- Free view to the operational area with no large obstacles to get the best signal performance.
- Cable gland facing downwards.
- It is recommended to find a spot that is protected from the environmental effects.
- ~~Recommended cable length < 30m.~~

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout A-Frame Stern RC Antenna	=A-FRAME STERN		E-4501- 03	
02	For customer review	29.08.2022	RSI	User	KS							
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								
									+B11		Rev. 03	10 / 10



- B11_KF2.0_EK1101
 - ID
 - WcState
 - InfoData
 - B11_KF2.1_EL1008
 - B11_KF2.2_EL3058
 - B11_KF2.3_EL1904
 - B11_KF2.4_EL2911
 - B11_KF2.5_EL9410
 - B11_KF2.6_EL2008
 - B11_KF2.7_EL2535-0002
 - B11_KF2.8_EL2535-0002
 - B11_KF2.9_EL2535-0002
 - B11_KF2.10_EL9410
 - B11_KF2.11_EL2535-0002
 - B11_KF2.12_EL2535-0002
 - B11_KF2.13_EL2535-0002
 - B11_KF2.14_EL6751
 - B11_KF2.15_EL9011

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram A-Frame Stern Control Cabinet	=A-FRAME STERN	
02	For customer review	29.08.2022	RSI	User	KS				+B11	
01	For customer review	22.12.2021	KS	Approved	GM					
Rev.	Description	Date	Rev. by	Standard						

-KF1.3 Beckhoff EL1904						
Pin	Pin Description	IO Type	Ref	PLC Comment 1	PLC Comment 2	PLC Symbolic Adress
1		I1	/10.B1	Emergency Stop	+Z13-S1-1	DIN/DOUT
2						
3		I2	/10.B1	Emergency Stop	+Z13-S1-2	DIN/DOUT
4						
5		I3	/10.B3	Emergency Stop	A-Frame PORT	DIN/DOUT
6						
7		I4	/10.B3	Emergency Stop	A-Frame PORT	DIN/DOUT
8						

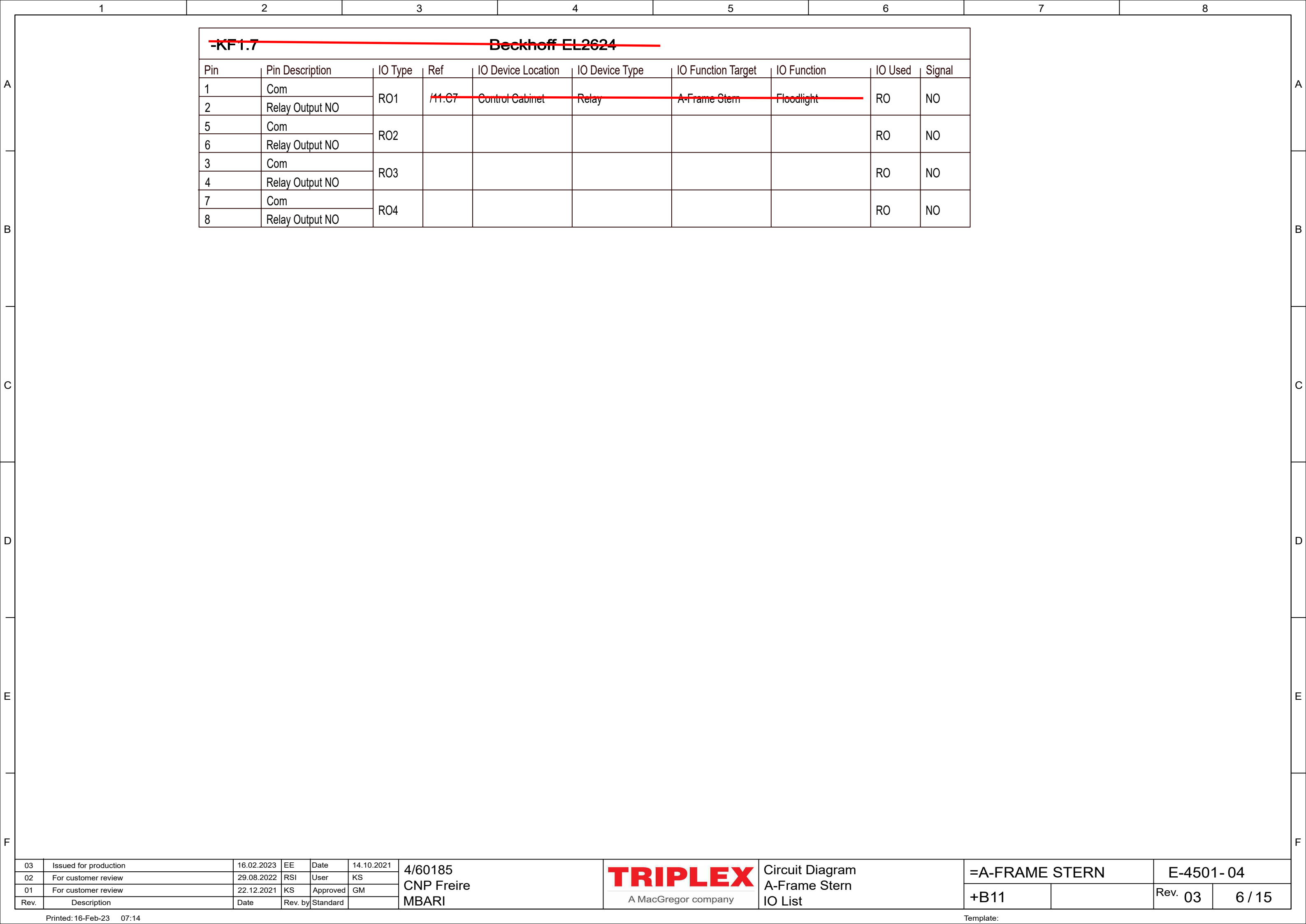
please update Cards IO list, with correct needed cards /
update tags and put them in order...
Not all card are even mentioned...

1	2	3	4	5	6	7	8																																																																																													
A	-KF1.2 Beckhoff EL3058 <table><tr><td>Pin</td><td>Pin Description</td><td>IO Type</td><td>Ref</td><td>IO Device Location</td><td>IO Device Type</td><td>IO Function Target</td><td>IO Function</td><td>IO Used</td><td>Signal</td></tr><tr><td>1</td><td>Analog Input</td><td>AI1</td><td>/14.B4</td><td>PS</td><td>Sensor</td><td></td><td>Tilt Lower Right</td><td>AI</td><td>4-20mA</td></tr><tr><td>5</td><td>Analog Input</td><td>AI2</td><td>/14.B5</td><td>PS</td><td>Sensor</td><td></td><td>Tilt Upper Right</td><td>AI</td><td>4-20mA</td></tr><tr><td>2</td><td>Analog Input</td><td>AI3</td><td>/14.B5</td><td>SPARE</td><td>-</td><td></td><td>-</td><td>AI</td><td>4-20mA</td></tr><tr><td>6</td><td>Analog Input</td><td>AI4</td><td>/15.B4</td><td>STBD</td><td>Sensor</td><td></td><td>Tilt Lower Left</td><td>AI</td><td>4-20mA</td></tr><tr><td>3</td><td>Analog Input</td><td>AI5</td><td>/15.B5</td><td>STBD</td><td>Sensor</td><td></td><td>Tilt Upper Left</td><td>AI</td><td>4-20mA</td></tr><tr><td>7</td><td>Analog Input</td><td>AI6</td><td>/15.B5</td><td>SPARE</td><td>-</td><td></td><td>-</td><td>AI</td><td>4-20mA</td></tr><tr><td>4</td><td>Analog Input</td><td>AI7</td><td></td><td></td><td></td><td></td><td></td><td>AI</td><td>4-20mA</td></tr><tr><td>8</td><td>Analog Input</td><td>AI8</td><td></td><td></td><td></td><td></td><td></td><td>AI</td><td>4-20mA</td></tr></table>									Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal	1	Analog Input	AI1	/14.B4	PS	Sensor		Tilt Lower Right	AI	4-20mA	5	Analog Input	AI2	/14.B5	PS	Sensor		Tilt Upper Right	AI	4-20mA	2	Analog Input	AI3	/14.B5	SPARE	-		-	AI	4-20mA	6	Analog Input	AI4	/15.B4	STBD	Sensor		Tilt Lower Left	AI	4-20mA	3	Analog Input	AI5	/15.B5	STBD	Sensor		Tilt Upper Left	AI	4-20mA	7	Analog Input	AI6	/15.B5	SPARE	-		-	AI	4-20mA	4	Analog Input	AI7						AI	4-20mA	8	Analog Input	AI8						AI	4-20mA	A
	Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal																																																																																										
	1	Analog Input	AI1	/14.B4	PS	Sensor		Tilt Lower Right	AI	4-20mA																																																																																										
	5	Analog Input	AI2	/14.B5	PS	Sensor		Tilt Upper Right	AI	4-20mA																																																																																										
	2	Analog Input	AI3	/14.B5	SPARE	-		-	AI	4-20mA																																																																																										
	6	Analog Input	AI4	/15.B4	STBD	Sensor		Tilt Lower Left	AI	4-20mA																																																																																										
	3	Analog Input	AI5	/15.B5	STBD	Sensor		Tilt Upper Left	AI	4-20mA																																																																																										
	7	Analog Input	AI6	/15.B5	SPARE	-		-	AI	4-20mA																																																																																										
	4	Analog Input	AI7						AI	4-20mA																																																																																										
8	Analog Input	AI8						AI	4-20mA																																																																																											
B										B																																																																																										
C										C																																																																																										
D										D																																																																																										
E										E																																																																																										
F										F																																																																																										

03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram A-Frame Stern IO List	=A-FRAME STERN		E-4501- 04	
02	For customer review	29.08.2022	RSI	User	KS				+B11		Rev. 03	4 / 15
01	For customer review	22.12.2021	KS	Approved	GM							
Rev.	Description	Date	Rev. by	Standard								

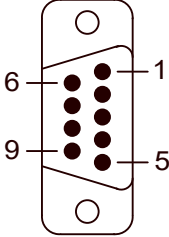
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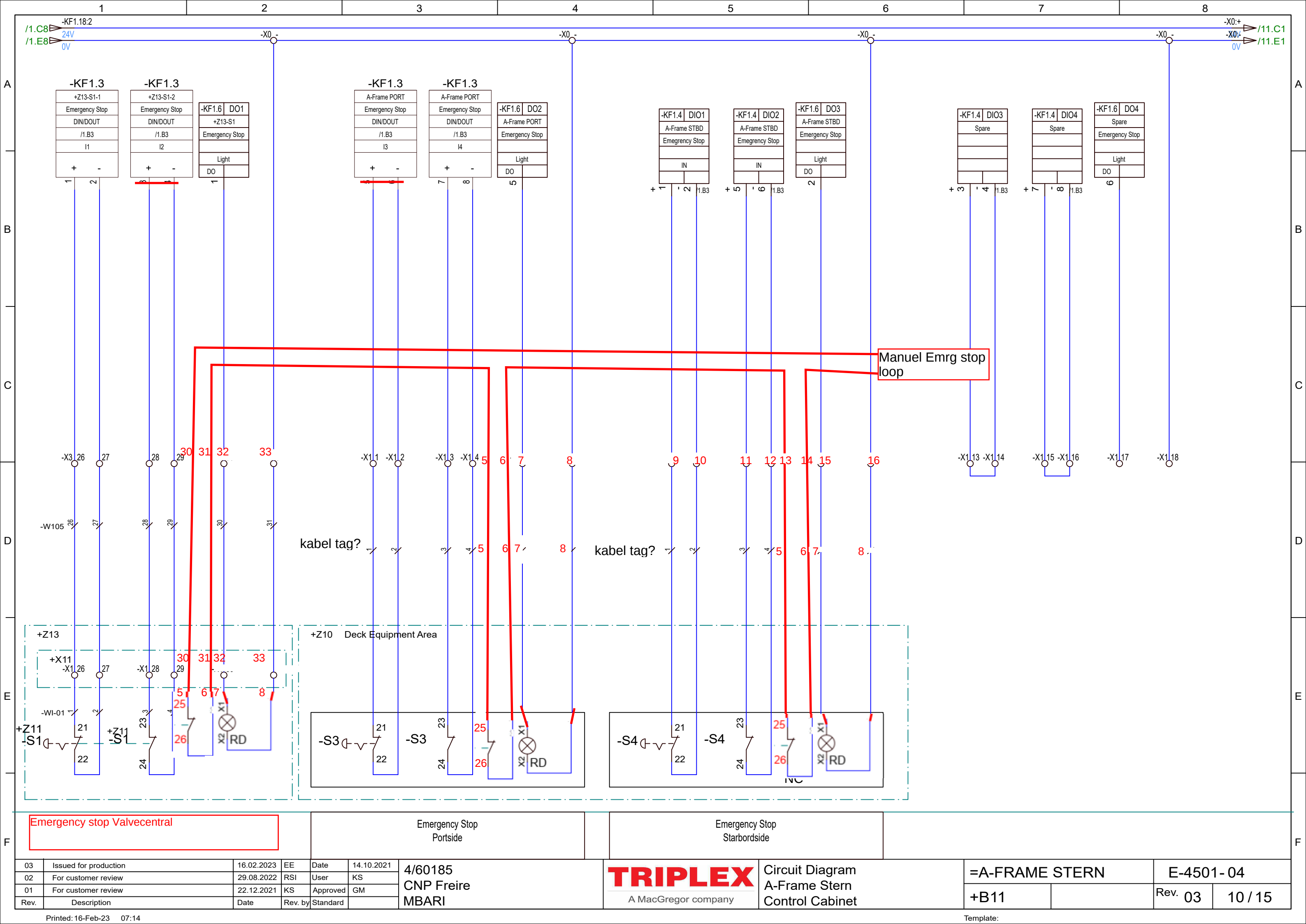
Template:



-KF1.14 Beckhoff EL2535-0002-									
Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal
1	PWM Output A1	PWM1	/12.B5	Valve Bank	upperTilt PORT	Prop. Valve	Out	AO+	PWM
5	PWM Output A2								
3	0Va								
4	Digital Input	DI1	/12.B5					DI	
2	PWM Output B1	PWM2		Valve Bank	upperTilt PORT	Prop. Valve	In	AO+	PWM
6	PWM Output B2								
7	0Vb								
8	Digital Input	DI2						DI	

doesnt even have all the PWM cards displaced?!?
also orignional one card to much...

-KF1.18 Beckhoff EL6751				
DSUB-9	Pin Description	IO Type	Ref	
1		CAN	/1.E5	 D-SUB 9-Pin Male
2	CAN-L			
3	CAN-G			
4				
5				
6	CAN-G			
7	CAN-H			
8				
9				



03	Issued for production	16.02.2023	EE	Date	14.10.2021
02	For customer review	29.08.2022	RSI	User	KS
01	For customer review	22.12.2021	KS	Approved	GM
Rev.	Description	Date	Rev. by	Standard	

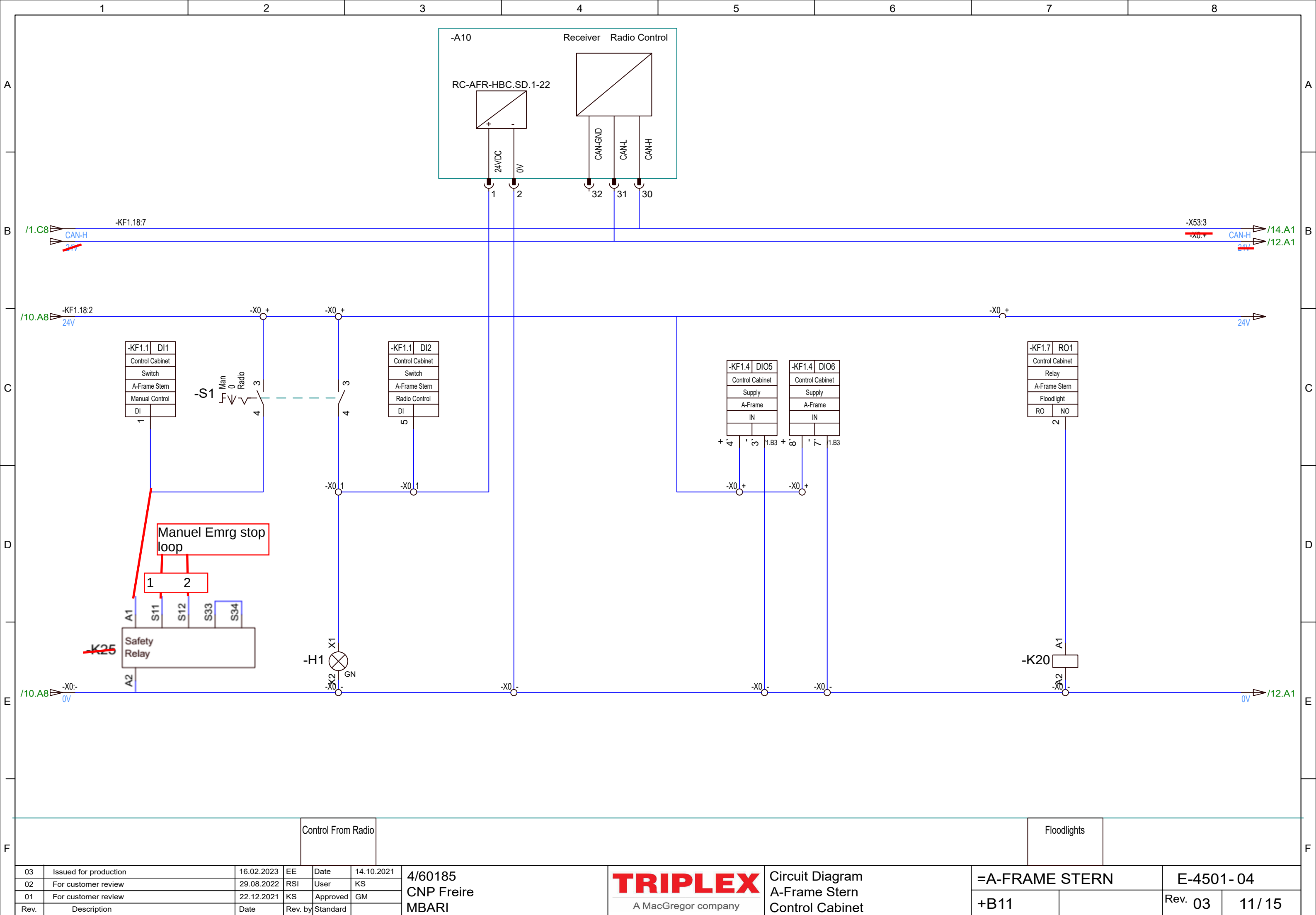
4/60185
CNP Freire
MBARI

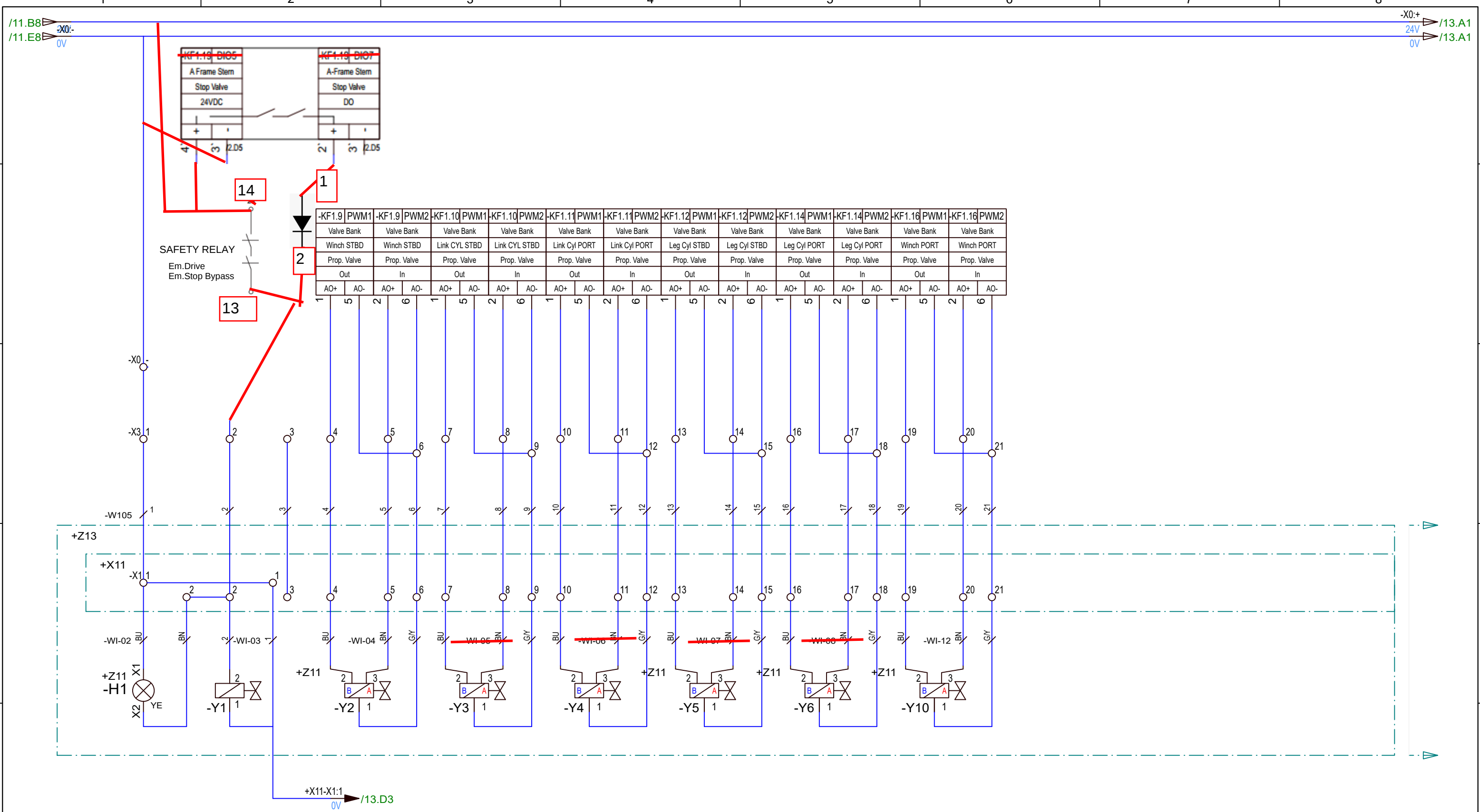


Circuit Diagram
A-Frame Stern
Control Cabinet

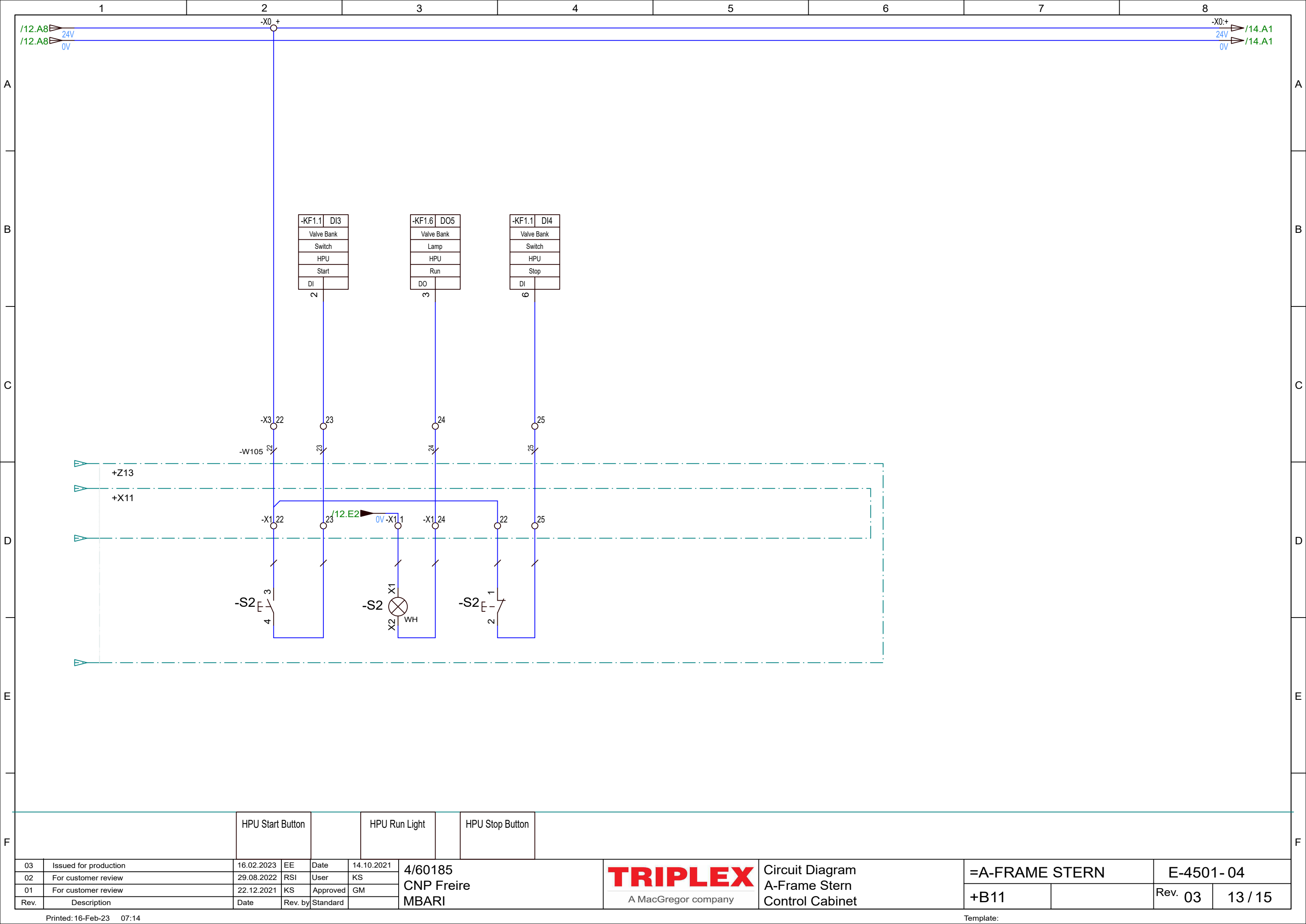
=A-FRAME STERN
+B11

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		A-Frame Active	A-Frame Activate		Aux Winch STBD		Link Cyl STBD		Link Cyl PORT		Leg Cyl STBD		Leg Cyl PORT		Aux Winch PORT											
					² Out	³ In	² Out	³ In	² Out	³ In	² Out	³ In	² Out	³ In	² Out	³ In										
03	Issued for production		16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI				TRIPLEX A MacGregor company				Circuit Diagram A-Frame Stern Control Cabinet				=A-FRAME STERN				E-4501- 04			
02	For customer review		29.08.2022	RSI	User	KS																				
01	For customer review		22.12.2021	KS	Approved	GM																				
Rev.	Description		Date	Rev. by	Standard										+B11					Rev. 03	12 / 15					



03	Issued for production	16.02.2023	EE	Date	14.10.2021
02	For customer review	29.08.2022	RSI	User	KS
01	For customer review	22.12.2021	KS	Approved	GM
Rev.	Description	Date	Rev. by	Standard	

4/60185
CNP Freire
MBARI



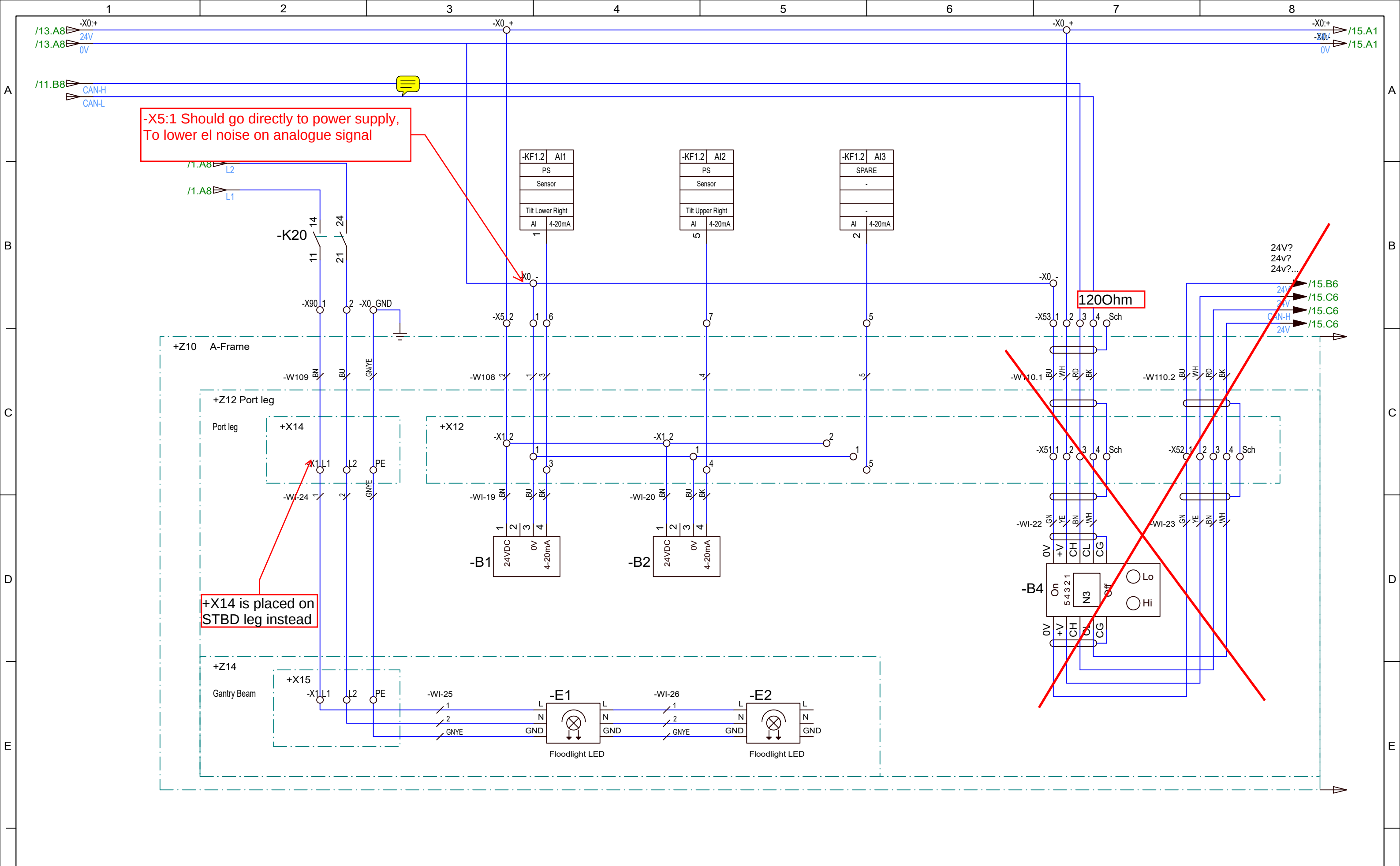
Circuit Diagram
A-Frame Stern
Control Cabinet

=A-FRAME STERN

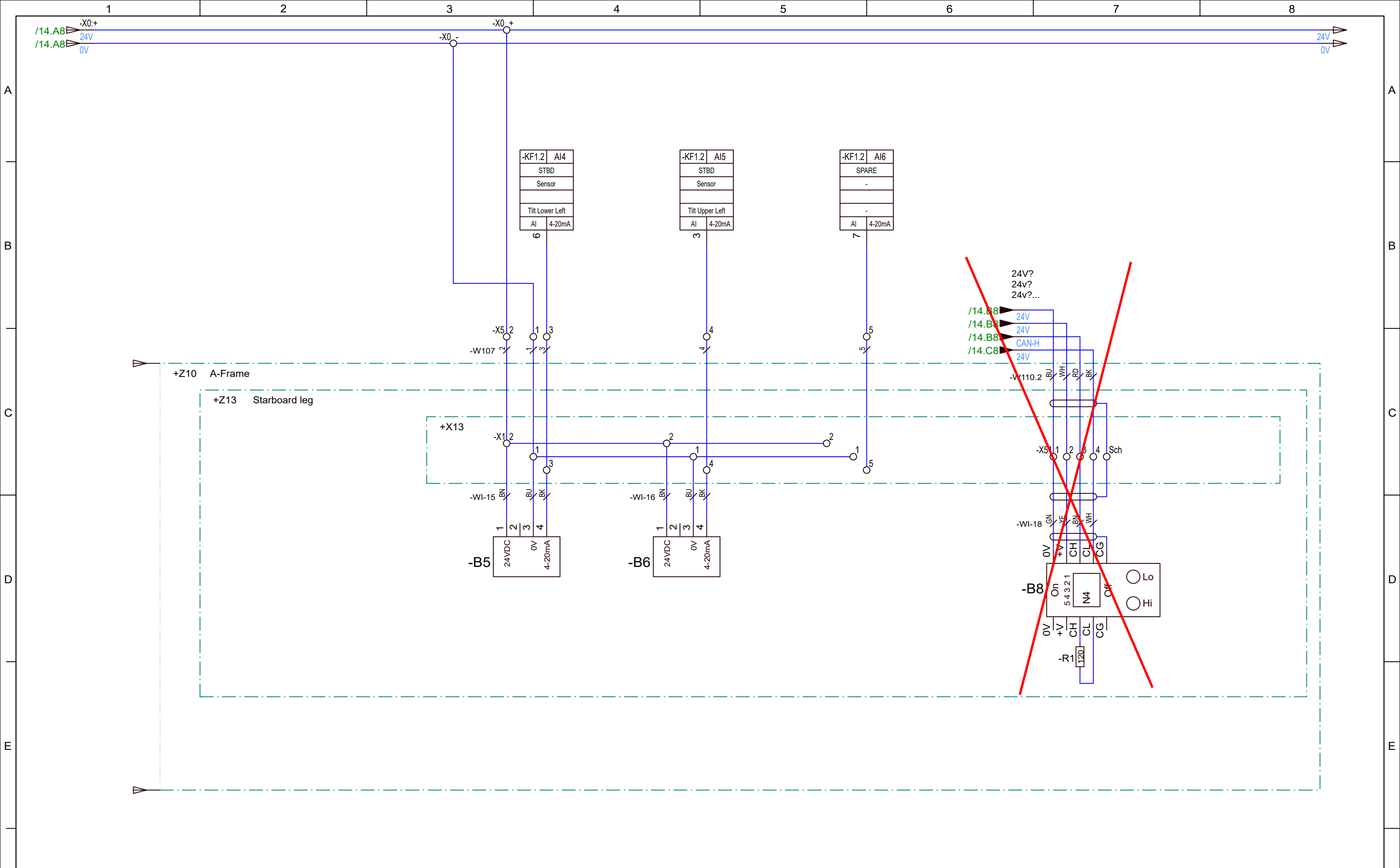
+B11

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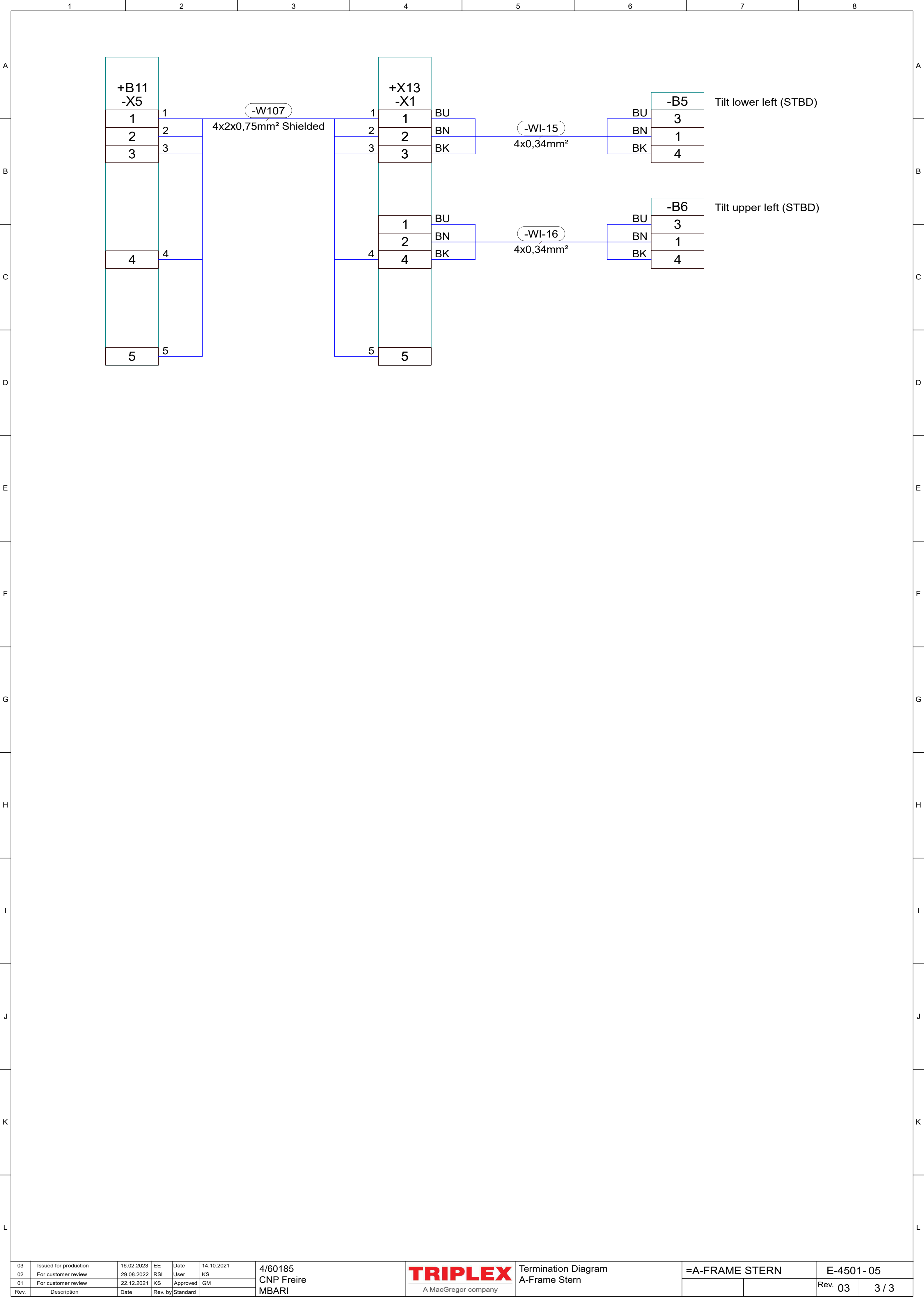


F							Tilt lower right (PORT)		Tilt upper right (PORT)		Aux Winch (PORT)					F
	03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram A-Frame Stern Control Cabinet	=A-FRAME STERN		E-4501-04				
	02	For customer review	29.08.2022	RSI	User	KS				+B11		Rev. 03	14 / 15			
	01	For customer review	22.12.2021	KS	Approved	GM										
	Rev.	Description	Date	Rev. by	Standard											



						Tilt lower left (STBD)		Tilt upper left (STBD)		Aux Winch (STBD)			
03	Issued for production	16.02.2023	EE	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram A-Frame Stern Control Cabinet	=A-FRAME STERN		E-4501- 04		
02	For customer review	29.08.2022	RSI	User	KS				+B11		Rev. 03	15 / 15	
01	For customer review	22.12.2021	KS	Approved	GM								
Rev.	Description	Date	Rev. by	Standard									





1		2		3		4		5		6		7		8				
A B C D E F	Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link	
	-TAG2		US-EMLP-HA 24		400075270				1		Pcs		TAG, SIGN, THERMOMARK CARD		Phoenix Contact			
	-X0		AEP AP11						1		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller			
	-X0..-X1,-X3,-X5,-X53,-X90		AEB 35 SC/1		400073887		12 654 34		15		Pcs		TERMINAL BLOCK, SNAP-IN, END LOCK		Weidmüller			
	-X0 (1),-X53 (1-4,Loop)		A3C 2.5		400069932		12 654 01		6		Pcs		TERMINAL BLOCK, SNAP-IN, DOUBLE		Weidmüller			
	-X0 (-)		AAP11 6/6X1.5 LO-LI BL		400074009				1		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller			
	-X0 (-,-,-,-)		AAP11 1.5 LI BL		400074009				4		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller			
	-X0 (+)		AAP11 6/6X1.5 LO-LI RD		400074009				1		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller			
	-X0 (+,+,+)		AAP11 1.5 LI RD		400074009				3		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller			
	-X0 (GND)		JORDSKINNE 21		07918007				1		Pcs		RAIL, GRN, BRASS, 21 SLOT		Weidmüller			
	-X0 (GND)		WPE 4		07918003		12 688 16		1		Pcs		-TERMINAL BLOCK, GND, 101010		Weidmüller			
	-X0 (GND,GND)		A3C 2.5 PE		400074010		12 654 16		2		Pcs		TERMINAL BLOCK, SNAP-IN, GND		Weidmüller			
	-X0,-X53		AEP 3C 2.5		400069937		12 694 11		2		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller			
	-X1 (1,3,5,7,9,11,13,15,17),-X5 (1,1,1,3,5,7)		A2T 2.5		400073880		12 654 14		15		Pcs		TERMINAL BLOCK, SNAP-IN, TWO HIGHTS		Weidmüller			
	-X1,-X5		AEP 2T 2.5		400073883		12 694 40		2		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller			
	-X3		AEP 3T 2.5		400209845		12 694 40		1		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller			
	-X3 (1,4,7,10,13,16,19,22,25,28,31)		A3T 2.5						11		Pcs		TERMINAL BLOCK, SNAP-IN, THREE HIGHTS		Weidmüller			
	-X90 (1-2)		A2C 2.5		400069931		12 654 00		2		Pcs		TERMINAL BLOCK, SNAP-IN, SINGLE		Weidmüller			
-X91,-X92		IE-TO-RJ45-FJ-B		07930061				2		Pcs		CONNECTOR, FEMALE, RJ45, RAIL MOUNT		Weidmüller				

[illegible]

1		2		3		4		5		6		7		8									
A	Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link						
	-GL1		ST-M 25 x 1.5		07928034		12 477 15		1		Pcs		CABLE GLAND, PLASTIC, SKINTOP, Ø12-18		Lapp								
	-GL2..-GL4		ST-M 16 x 1.5		07928032		12 477 13		3		Pcs		CABLE GLAND, PLASTIC, SKINTOP, Ø3,5-8		Lapp								
	-GL5..-GL8		ST-M 20 x 1.5		07928033		12 477 14		4		Pcs		CABLE GLAND, PLASTIC, SKINTOP, Ø6-12		Lapp								
	-JB1		CPG-240		07904004				1		Pcs		JUNCTION BOX, POLYESTER, 220x120x90		Bernstein								
	-RAIL1		TS 35X7.5 6.2MM HULLET		07940001		12 692 14		0.2		M		RAIL, PERFORATED, TS35 x 7,5 x 6,2mm		Weidmüller								
	-TAG1		US-EMLP 60X30		07958306		12 684 08		1		Pcs		TAG, SIGN, THERMOMARK CARD, W/GLUE		Phoenix Contact								
B	-X51 (1,1-2,2-3,3-4,4,CAN-Loop)		A3C 2.5		400069932		12 654 01		9		Pcs		TERMINAL BLOCK, SNAP-IN, DOUBLE		Weidmüller								
C																							
D																							
E																							
F																							
03		Issued for production		16.02.2023		EE		Date		14.10.2021		4/60185 CNP Freire MBARI		 A MacGregor company		Part List A-Frame Stern		=A-FRAME STERN		E-4501-07			
02		For customer review		29.08.2022		RSI		User		KS													
01		For customer review		22.12.2021		KS		Approved		GM													
Rev.		Description		Date		Rev. by		Standard										+X12		Rev. 03		5 / 12	

1		2		3		4		5		6		7		8			
Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link	
-H1		853 310 55		07959005				1		Pcs		LAMP, BEACON, LED, YE, FLASH, 24V		Werma			
-S1		XALK178W3B140G		400208317		4322660		1		Pcs		CONTR. PUSH, EM STOP		Schneider			

1		2		3		4		5		6		7		8											
A	Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link								
	-B1,-B2		ROTA LJ						2		Pcs		SENSOR, LENGTH, INDUCTIVE, CYLINDER, 4.. 20mA		ROTA										
	-B4		K-8.5868.3221.2113C		07917203				1		Pcs		SENSOR, ROTATION, ABSOLUT, MULTITURN, 10x20mm		Kübler										
B																									
C																									
D																									
E																									
F																									
03		Issued for production		16.02.2023		EE		Date		14.10.2021		4/60185 CNP Freire MBARI		TRIPLEX A MacGregor company		Part List A-Frame Stern		=A-FRAME STERN		E-4501-07					
02		For customer review		29.08.2022		RSI		User		KS								+Z12				Rev. 03		10 / 12	
01		For customer review		22.12.2021		KS		Approved		GM															
Rev.		Description		Date		Rev. by		Standard																	

1		2		3		4		5		6		7		8			
Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link	
-E1,-E2		FL60 18000 850 120 M25 NB US		400110503				2		Pcs		FLOODLIGHT, LED, 160W, 120V, NARROW BEAM		Glamox			