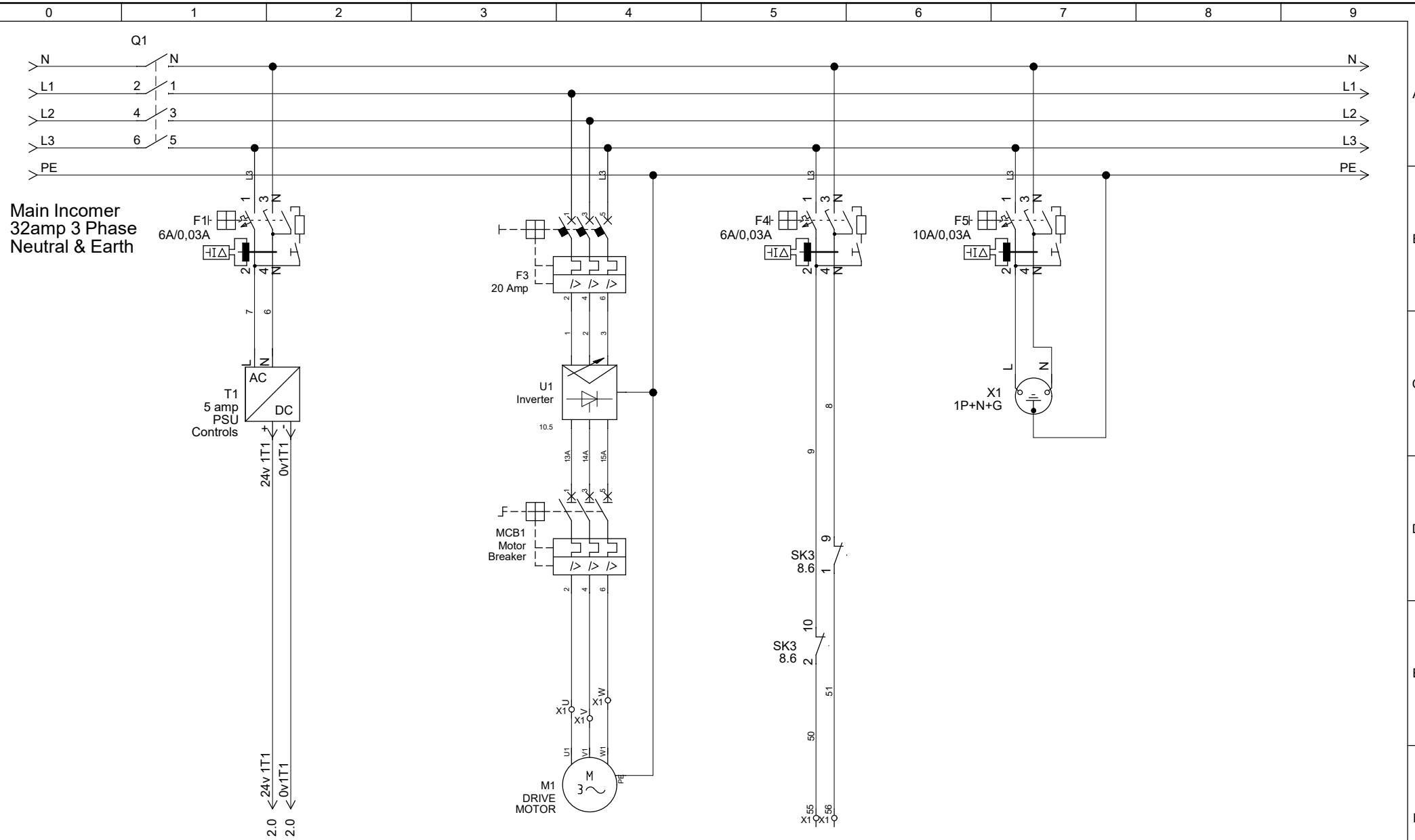
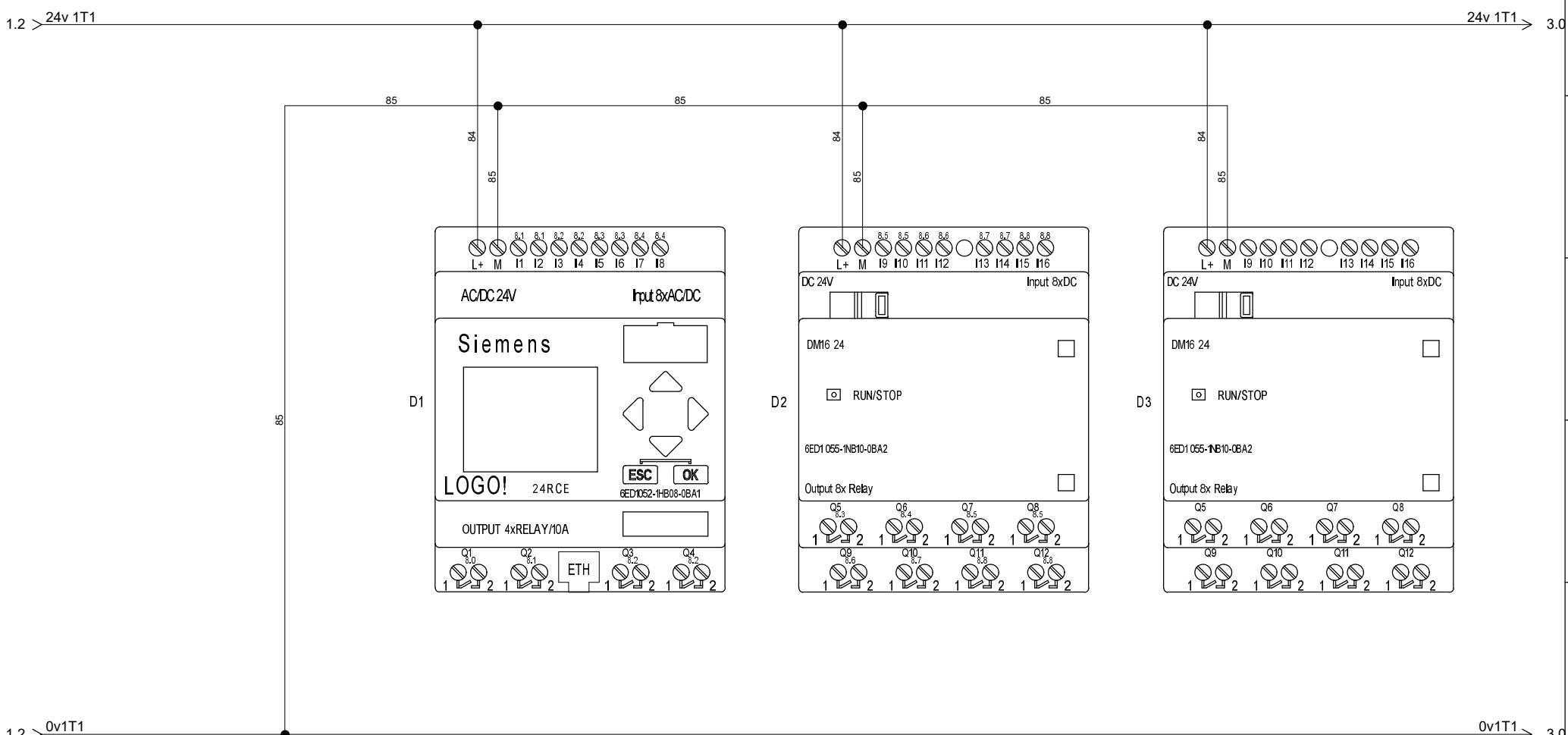
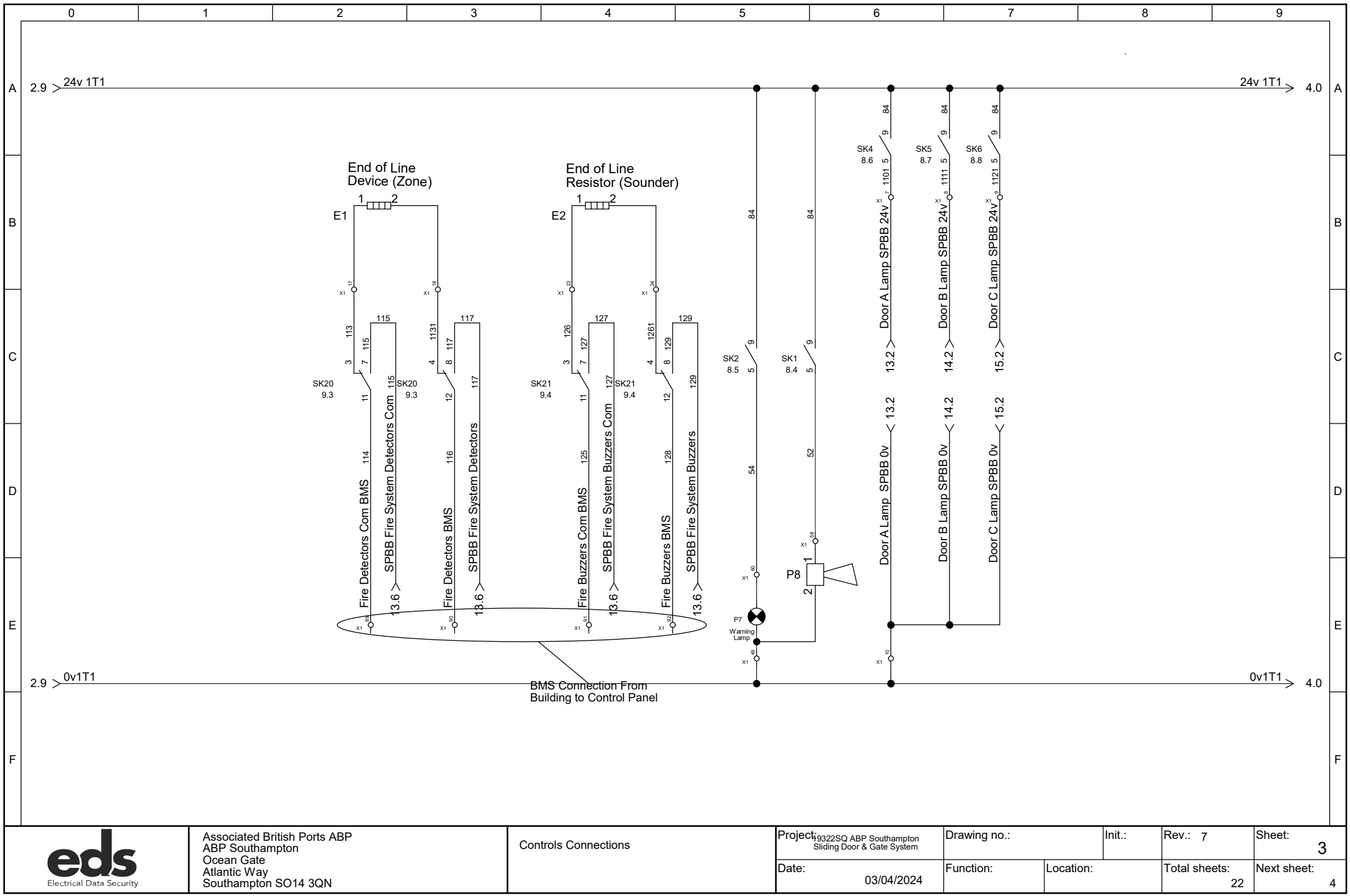


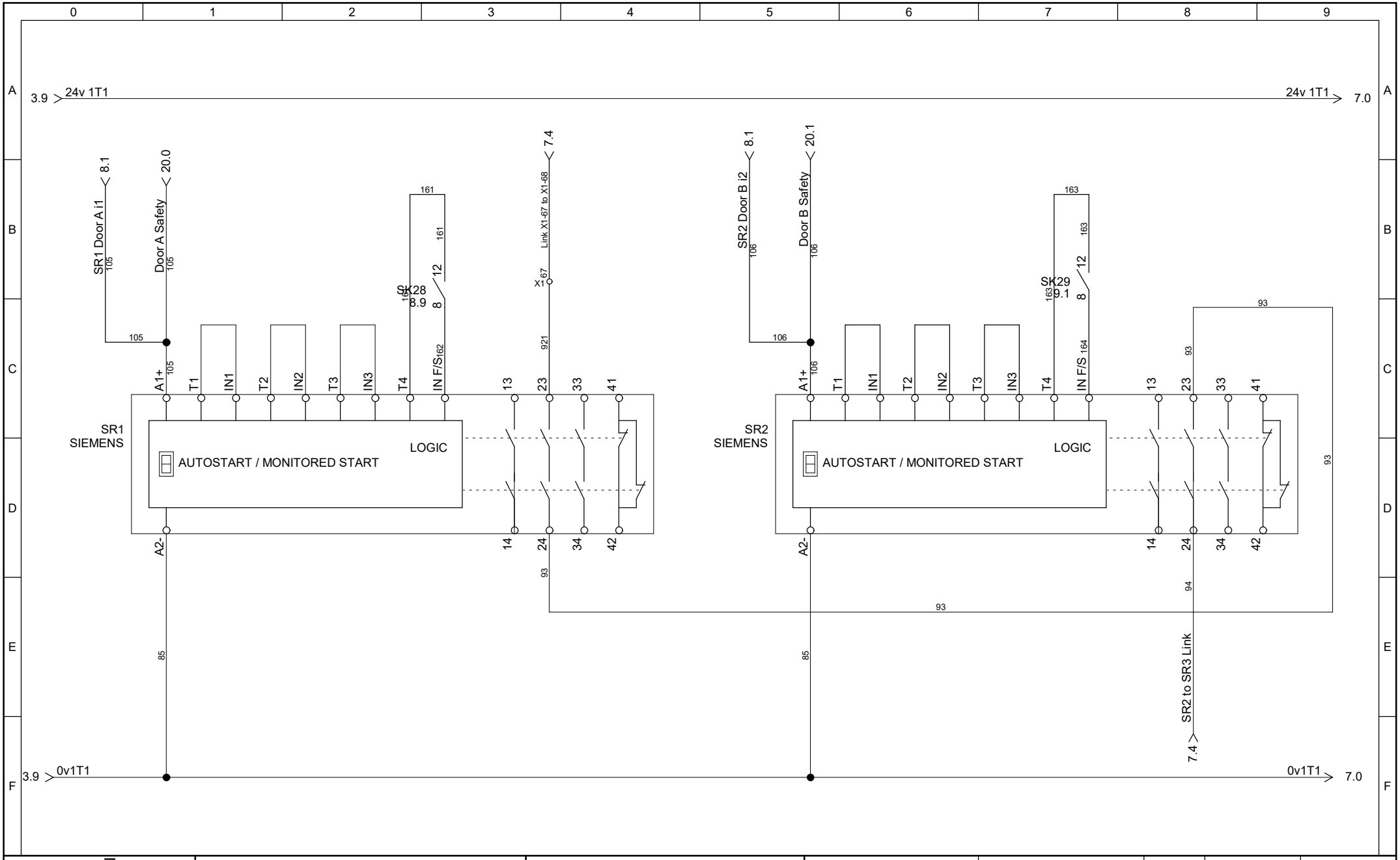
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Mains & PSU	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 1
			Date: 03/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 2



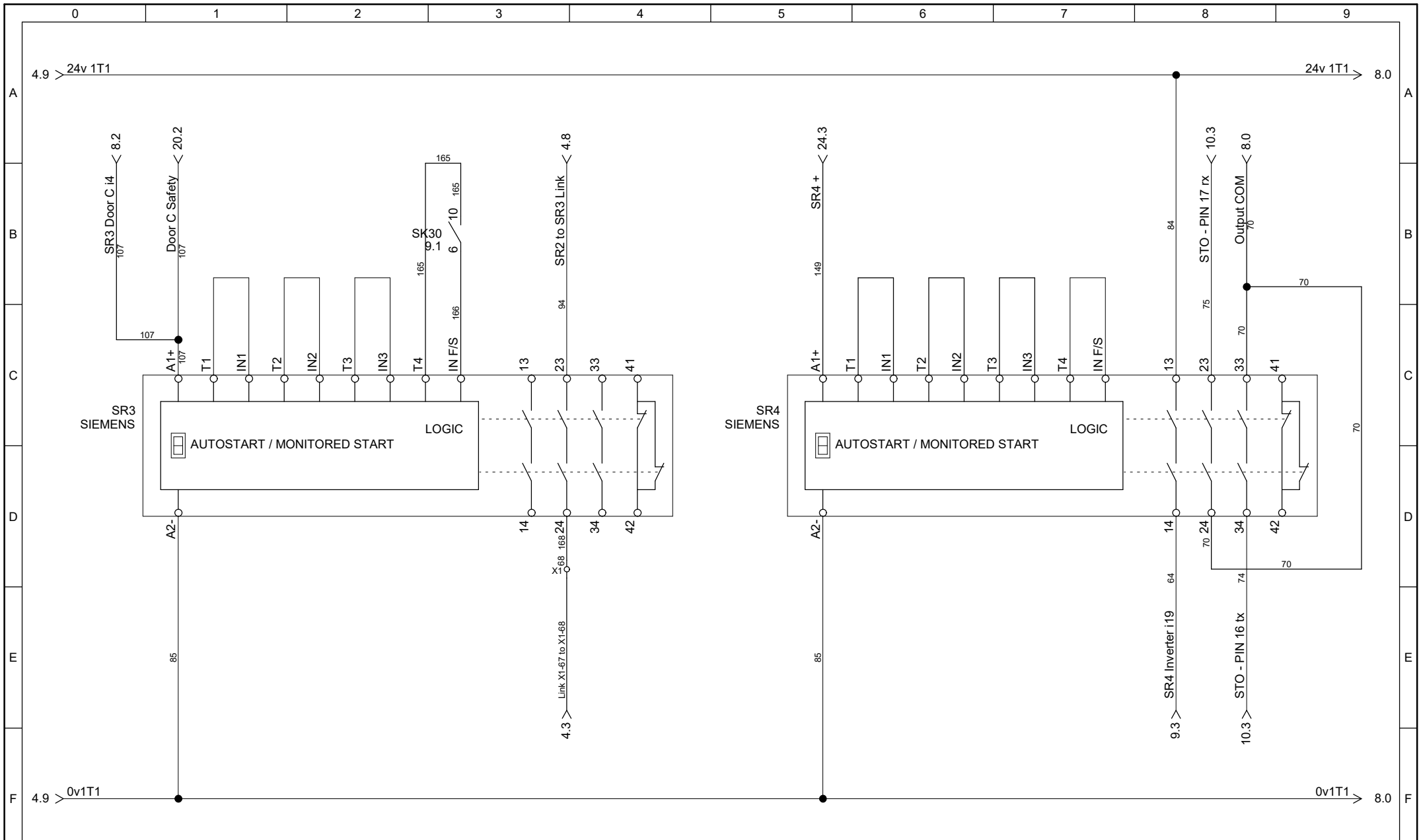
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	LOGO	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 2
			Date: 03/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 3



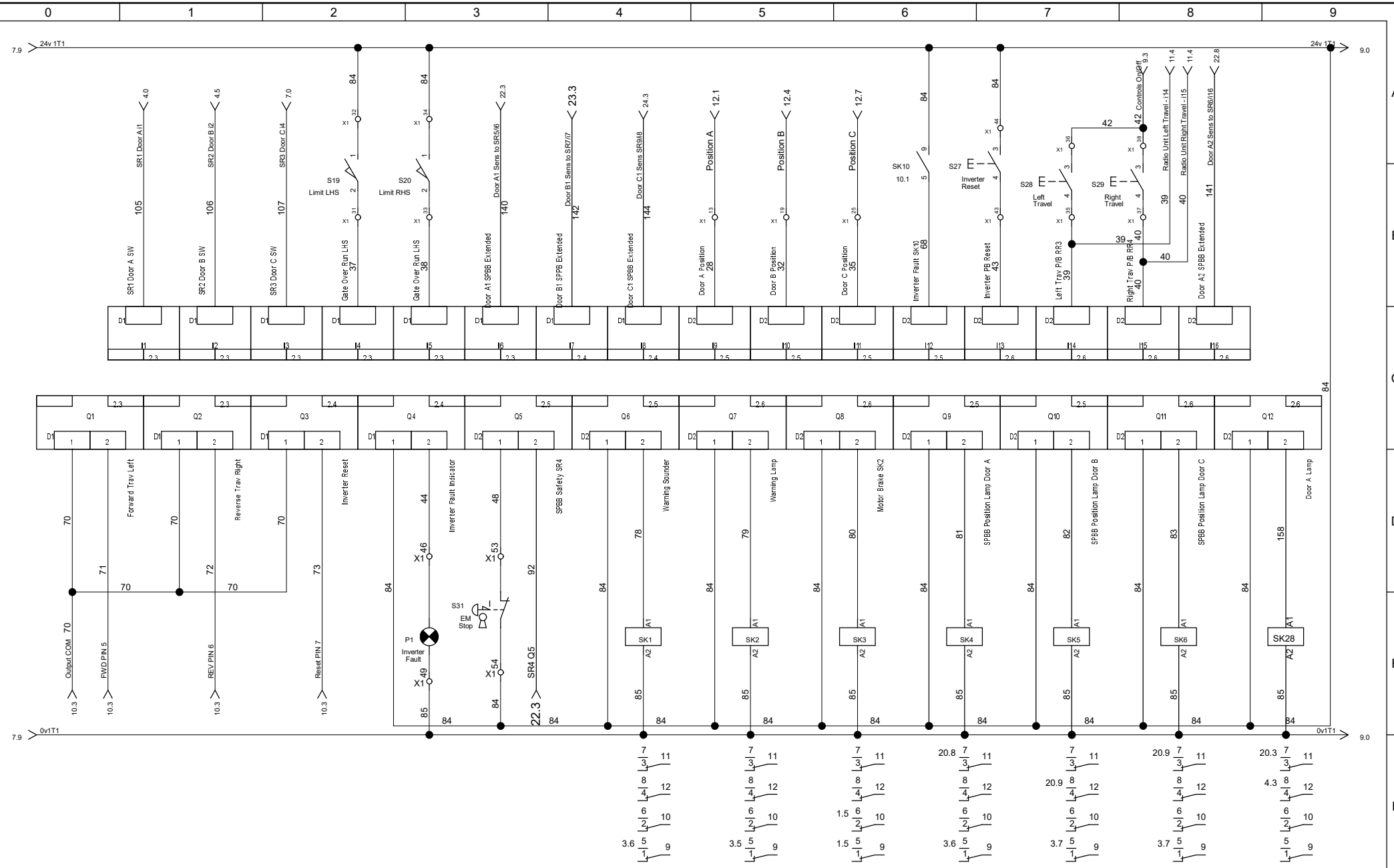
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Controls Connections	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 3
			Date: 03/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 4



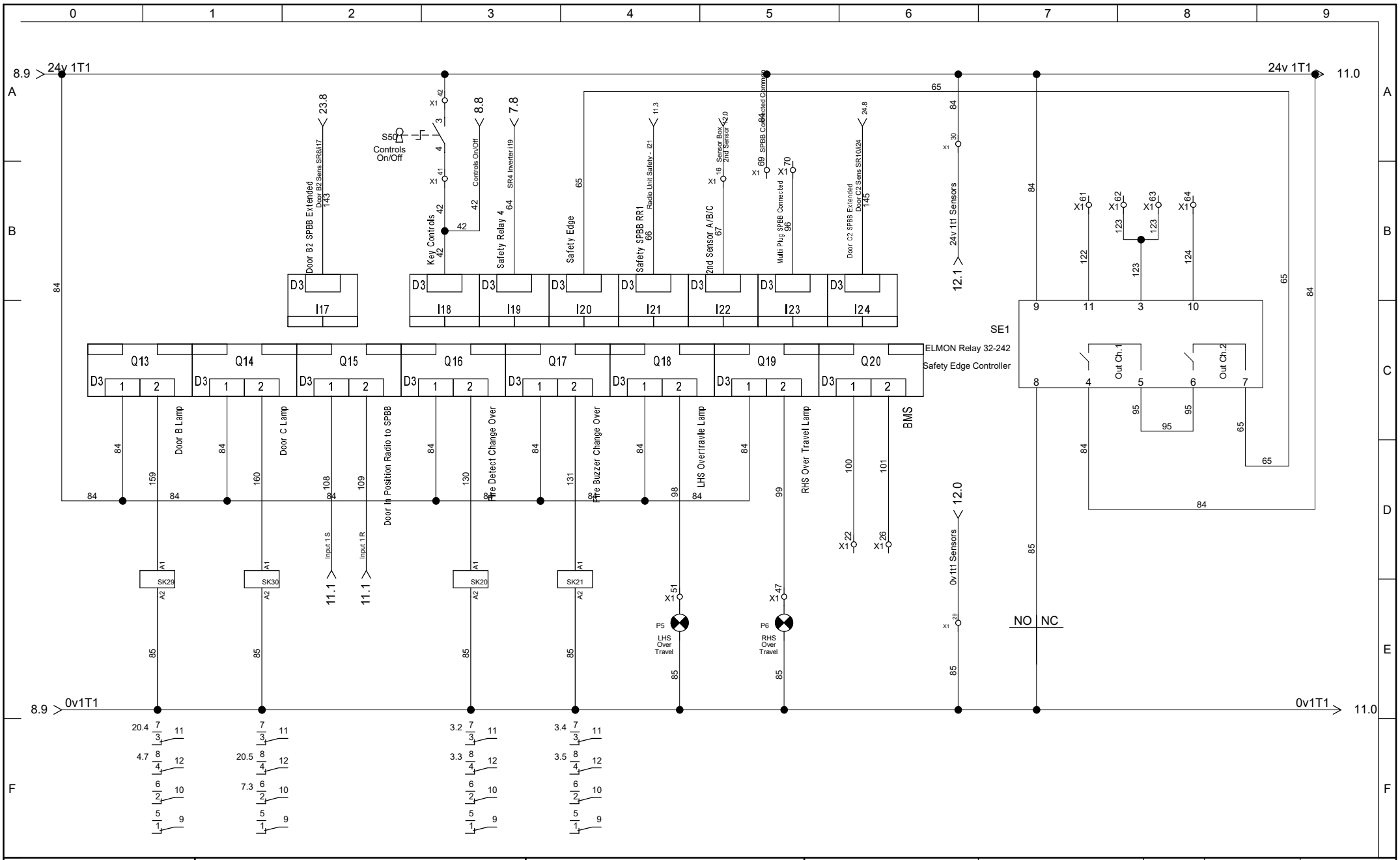
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Safety Relays 1 & 2	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 4
			Date: 03/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 7



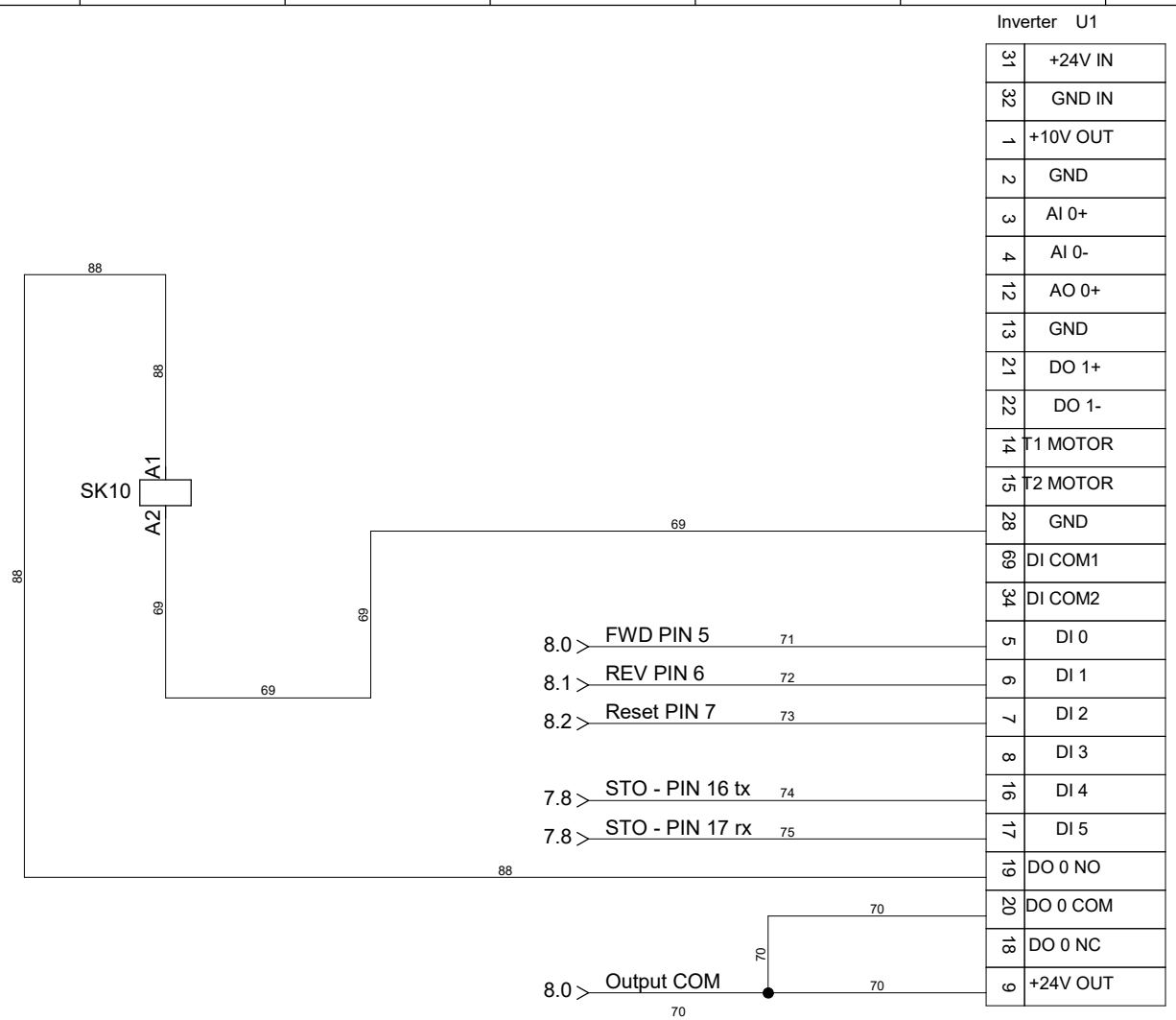
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Safety Realy 3 & 4	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 7
			Date: 08/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 8



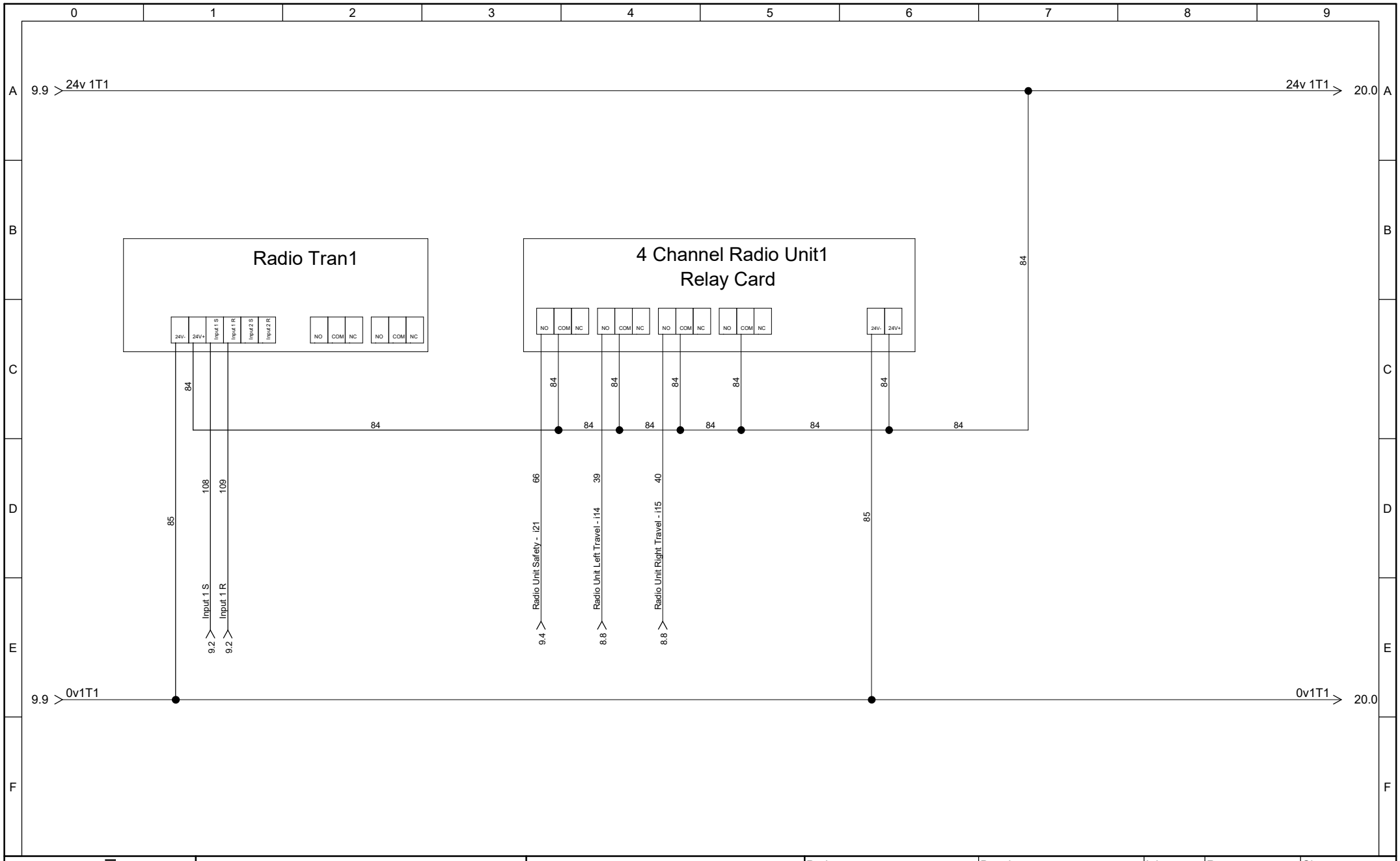
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Iputs/Outputs D1 & D2	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 5	Sheet: 8
			Date: 09/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 9



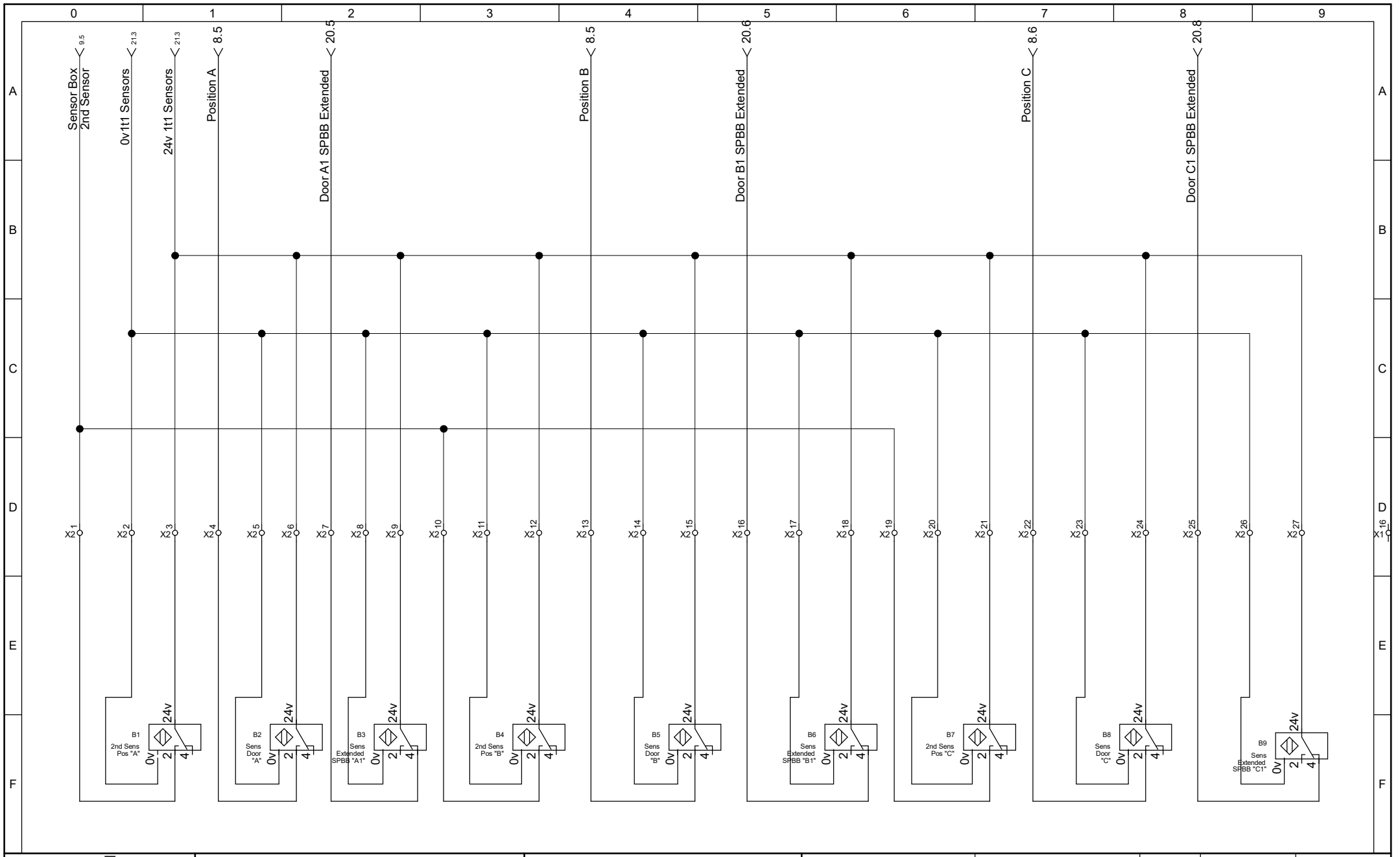
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Iputs/Outputs D3	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 9
			Date: 11/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 10



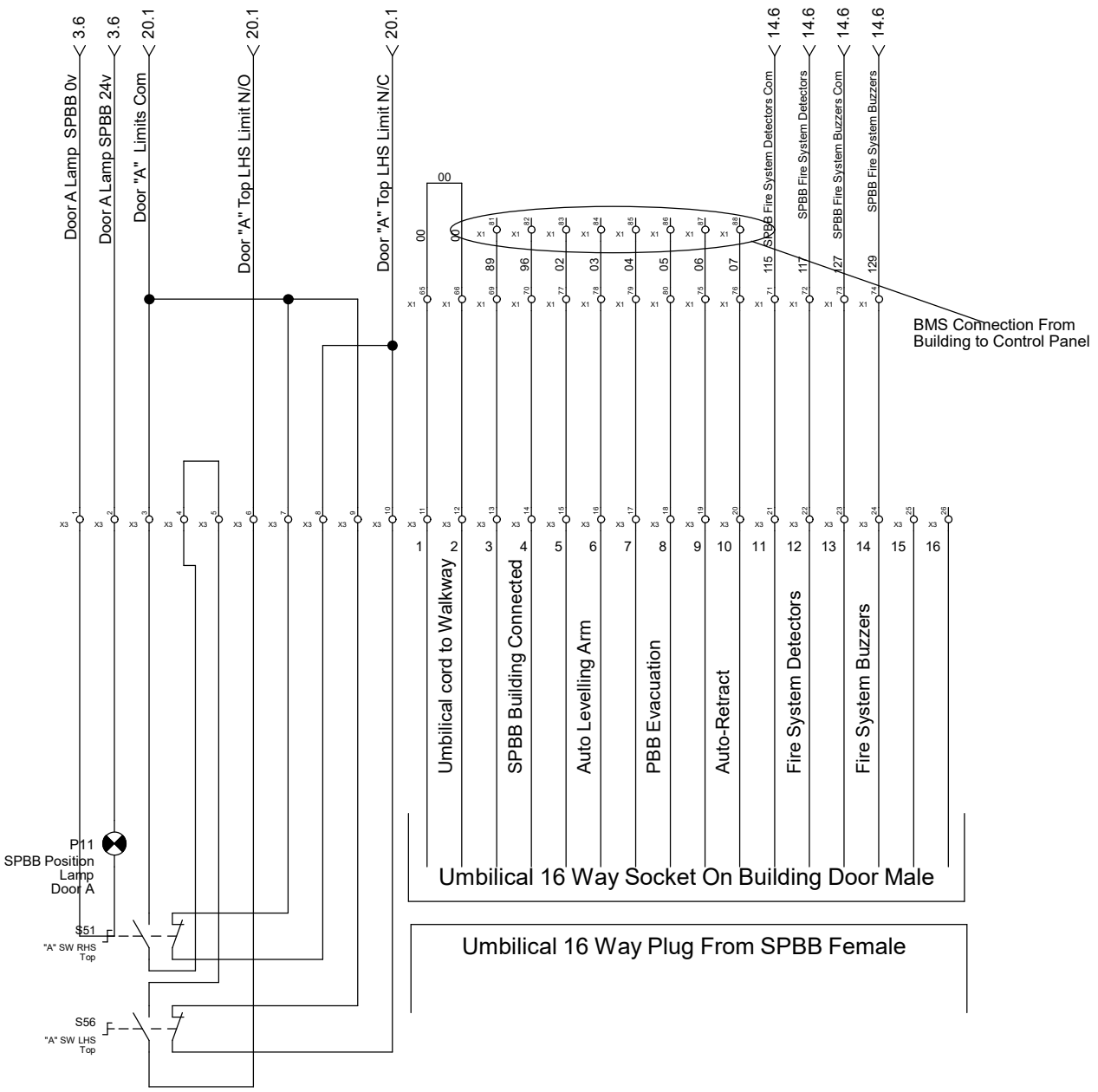
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Inverter Control Connections	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 10
			Date: 11/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 11



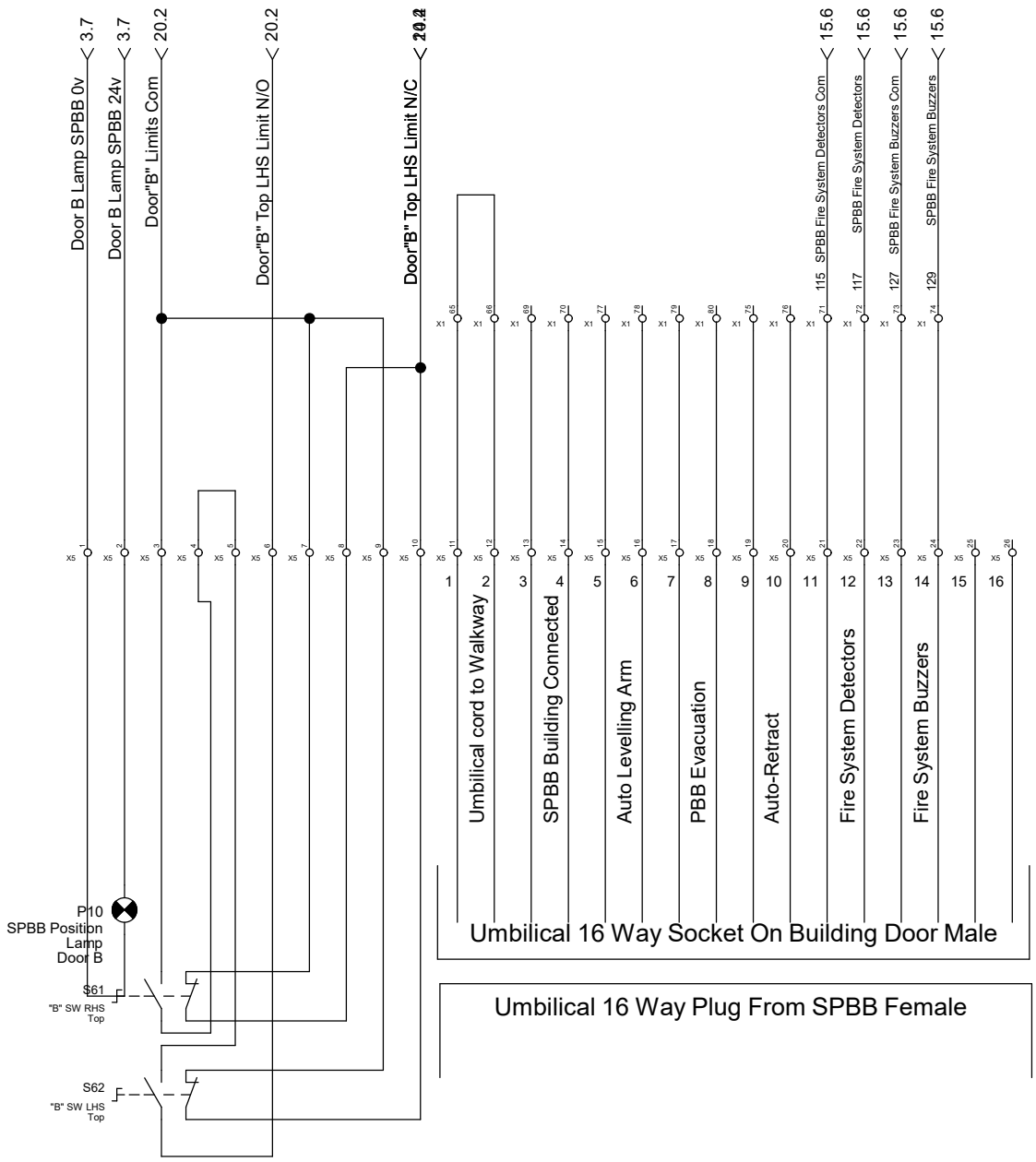
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Radio Control Unit	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 11
			Date: 17/04/2024	Function:	Location:	Total sheets: 22	Next sheet: 12



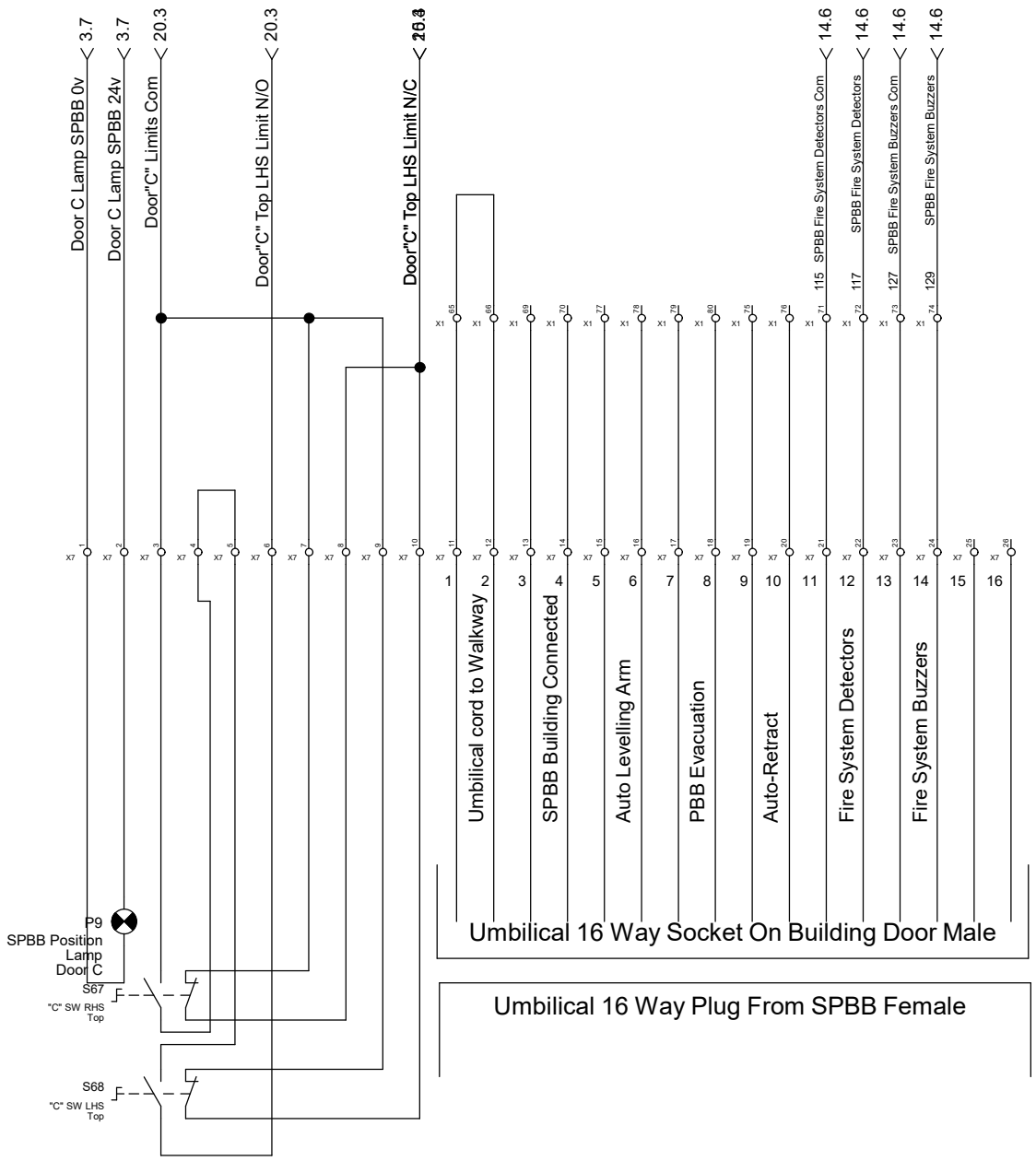
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Sensor Connection Box	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 12
			Date: 08/05/2024	Function:	Location:	Total sheets: 22	Next sheet: 13



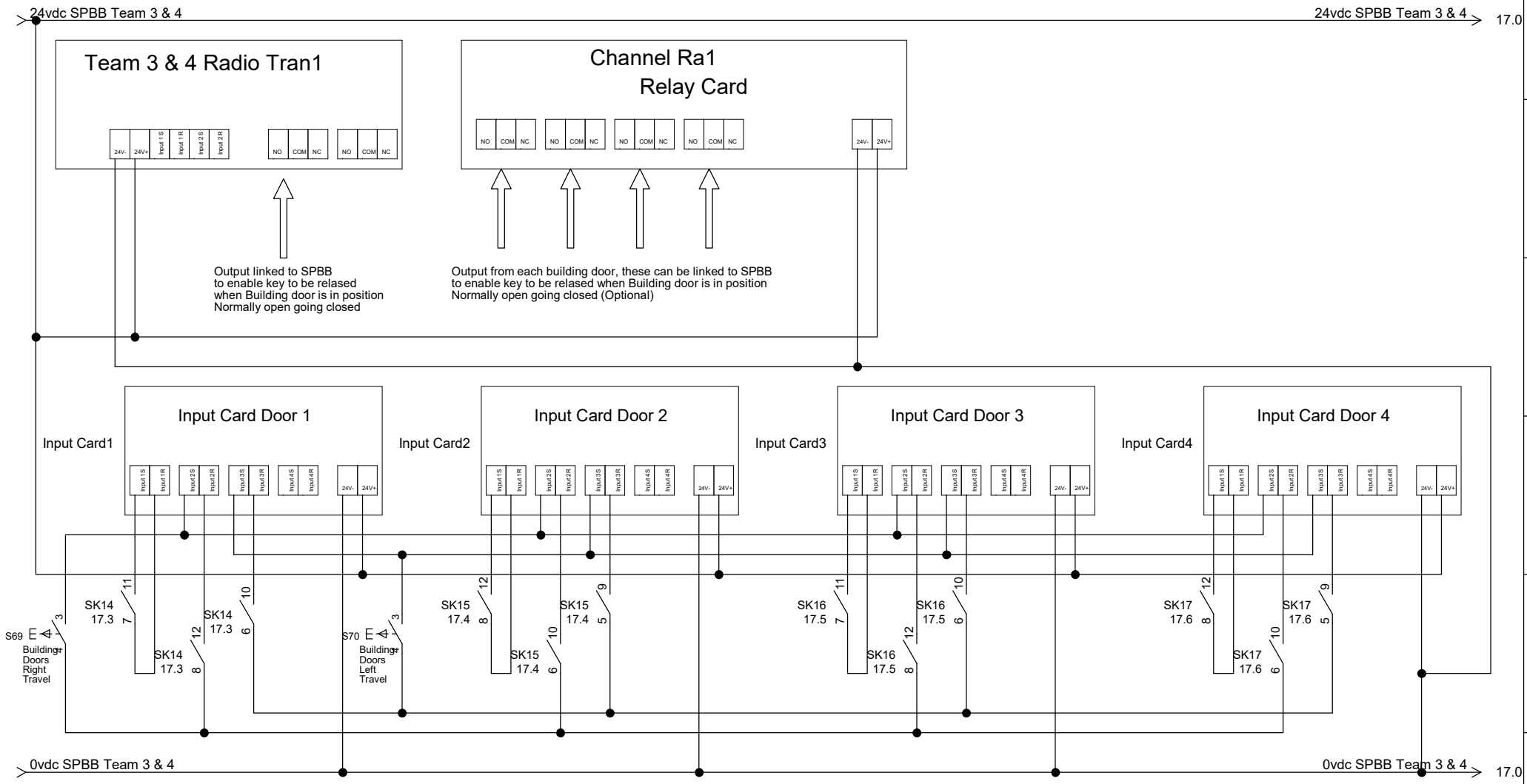
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Multi-core Cable 1 Connection Box "A"	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 13
			Date: 12/07/2024	Function:	Location:	Total sheets: 22	Next sheet: 14



eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Multi-core Cable 1 Connection Box "B"	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 14
			Date: 16/07/2024	Function:	Location:	Total sheets: 22	Next sheet: 15



eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Multi-core Cable 1 Connection Box "C"	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 15
			Date: 16/07/2024	Function:	Location:	Total sheets: 22	Next sheet: 16



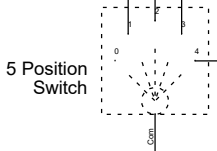
Please note, this page is not part of the EDS wiring details, this is a proposed wiring for Adelte to install within there controls for the Transmission System
EDS will supply all Transmission Equipement pre-programmed. Adelte will utilise there own 24vdc power, push buttons, relays, 3 position and 5 position switches
All numbering details are for information only

eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	SPBB Transciever Wiring Team 3 & 4	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 16
			Date: 06/11/2024	Function:	Location:	Total sheets: 22	Next sheet: 17

Please note, this page is not part of the EDS wiring details, this is a proposed wiring for Adelte to install within there controls for the Transmission System
EDS will supply all Transmission Equipement pre-programmed. Adelte will utilise there own 24vdc power, push buttons, relays, 3 position and 5 position switches
All numbering details are for information only

16.9 24vdc SPBB Team 3 & 4 → 24vdc SPBB Team 3 & 4

Coonection "0" should be used to link into the SPBB safety circuit, therefore if 1, 2,3 or 4 is selected, the SPBB controls are Disable

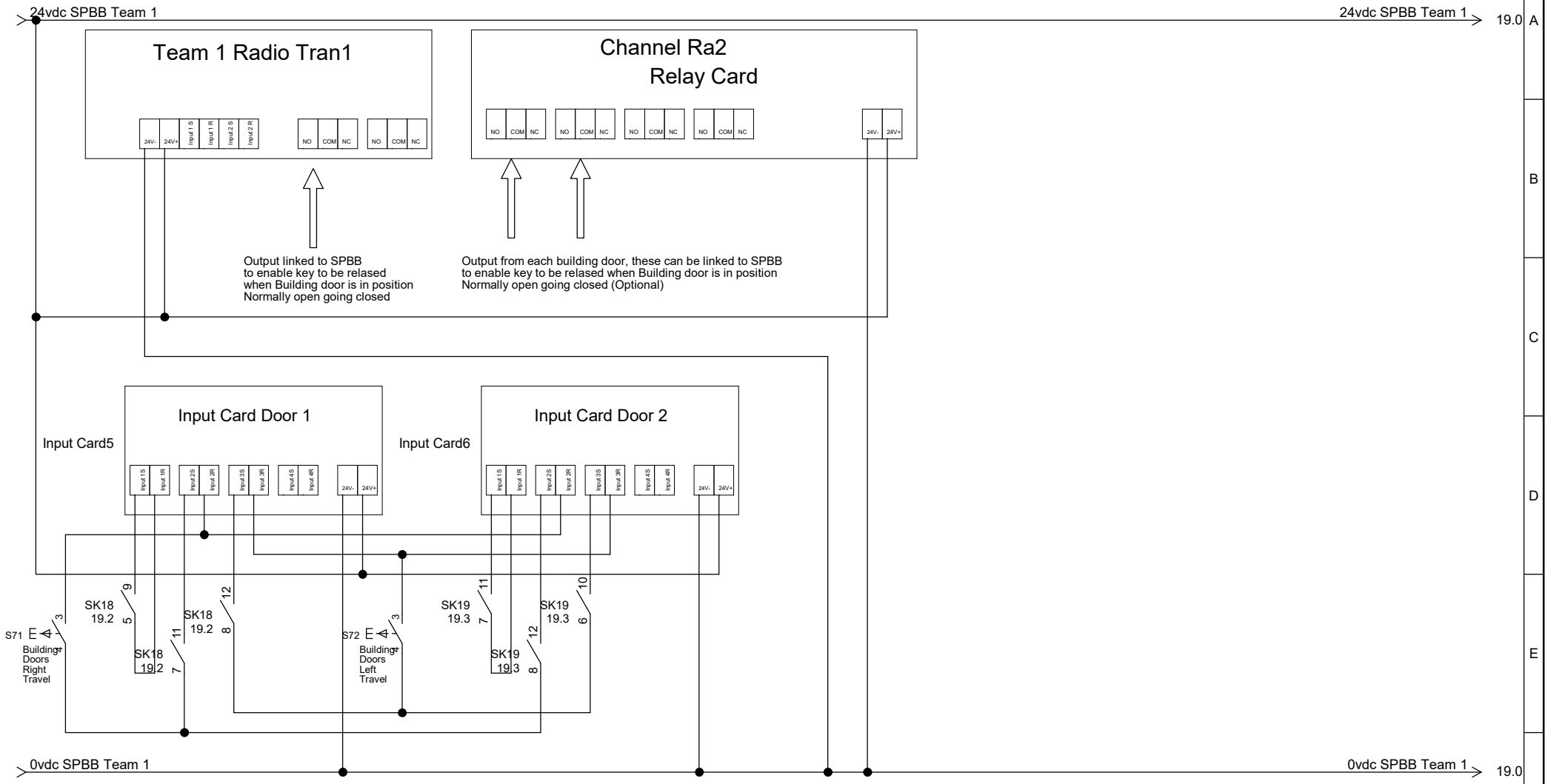


SK14 Door 1 — A1 / A2
SK15 Door 2 — A1 / A2
SK16 Door 3 — A1 / A2
SK17 Door 4 — A1 / A2

16.9 0vdc SPBB Team 3 & 4 → 0vdc SPBB Team 3 & 4

	SK14 Door 1	SK15 Door 2	SK16 Door 3	SK17 Door 4
7 / 3 / 11	16.1	16.3	16.5	16.7
8 / 4 / 12	16.1	16.3	16.6	16.8
6 / 2 / 10	16.1	16.3	16.6	16.8
5 / 1 / 9		16.4		

eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	SPBB Relay Wiring Team 3 & 4	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 17
			Date: 06/11/2024	Function:	Location:	Total sheets: 22	Next sheet: 18

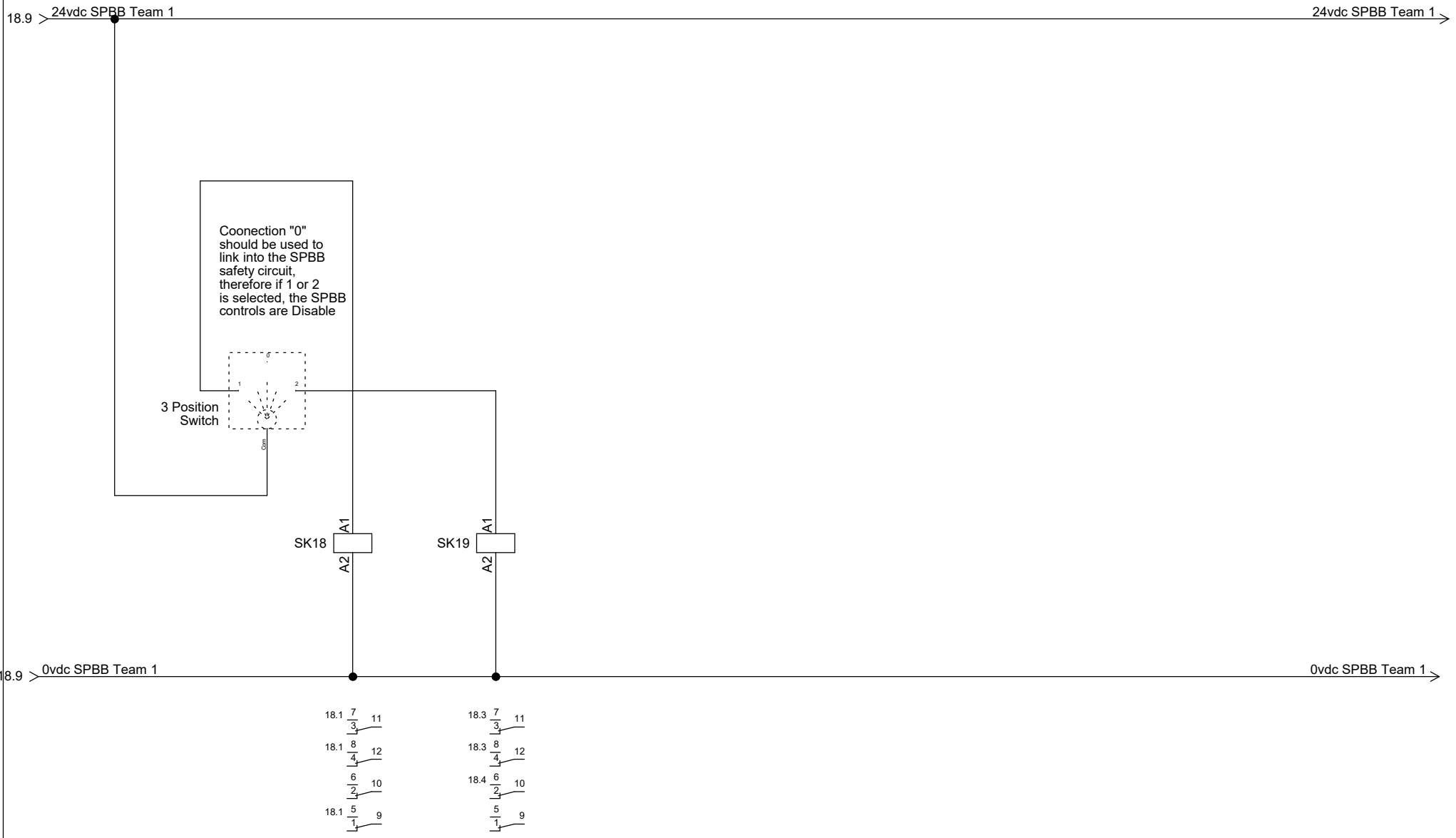


Please note, this page is not part of the EDS wiring details, this is a proposed wiring for Adelte to install within there controls for the Transmission System
EDS will supply all Transmission Equipement pre-programmed. Adelte will utilise there own 24vdc power, push buttons, relays, 3 position and 5 position switches
All numbering details are for information only

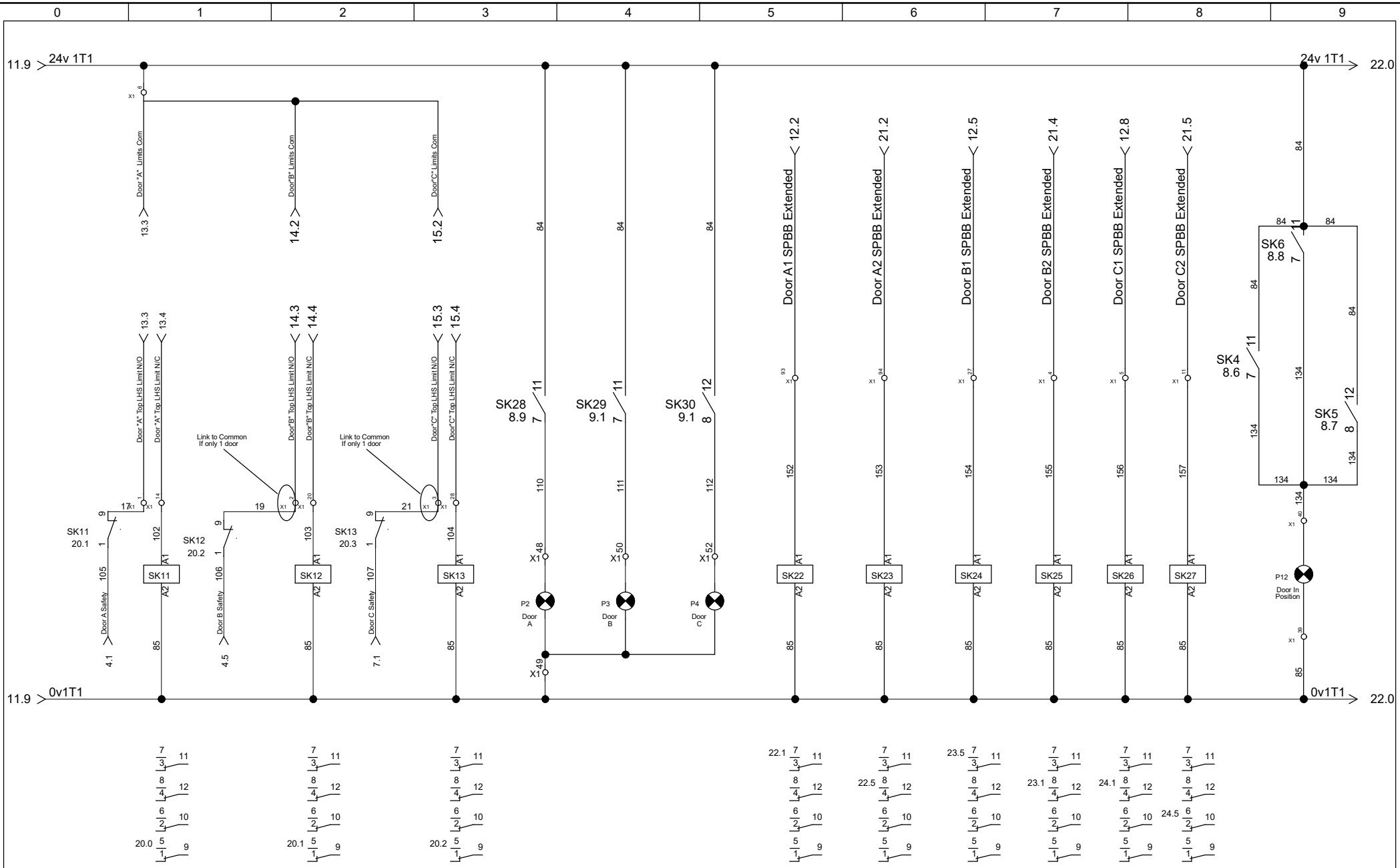
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	SPBB Transciever Wiring Team 1	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 18
			Date: 07/11/2024	Function:	Location:	Total sheets: 22	Next sheet: 19

0	1	2	3	4	5	6	7	8	9

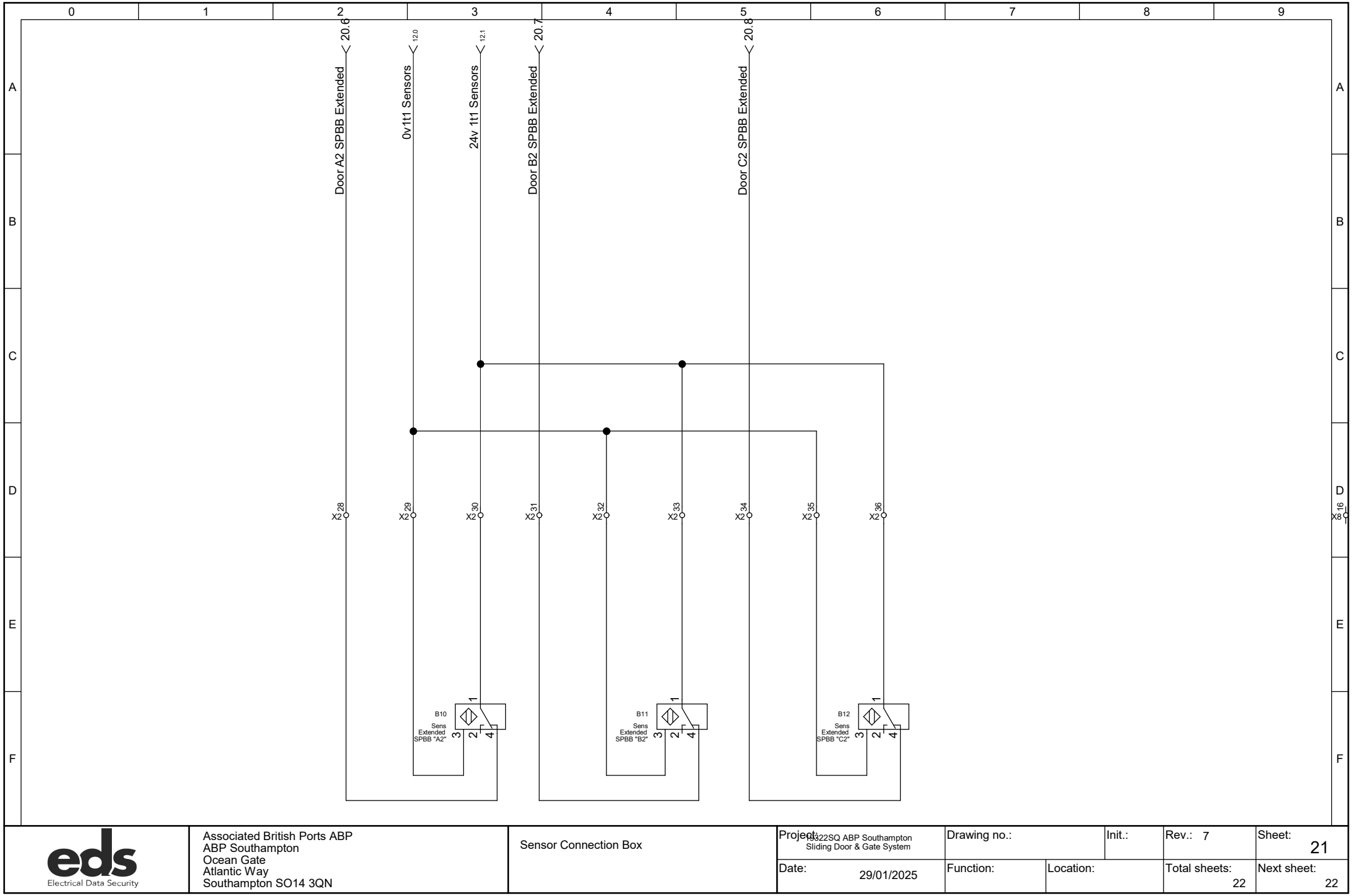
Please note, this page is not part of the EDS wiring details, this is a proposed wiring for Adelte to install within there controls for the Transmission System
EDS will supply all Transmission Equipement pre-programmed. Adelte will utilise there own 24vdc power, push buttons, relays, 3 position and 5 position switches
All numbering details are for information only



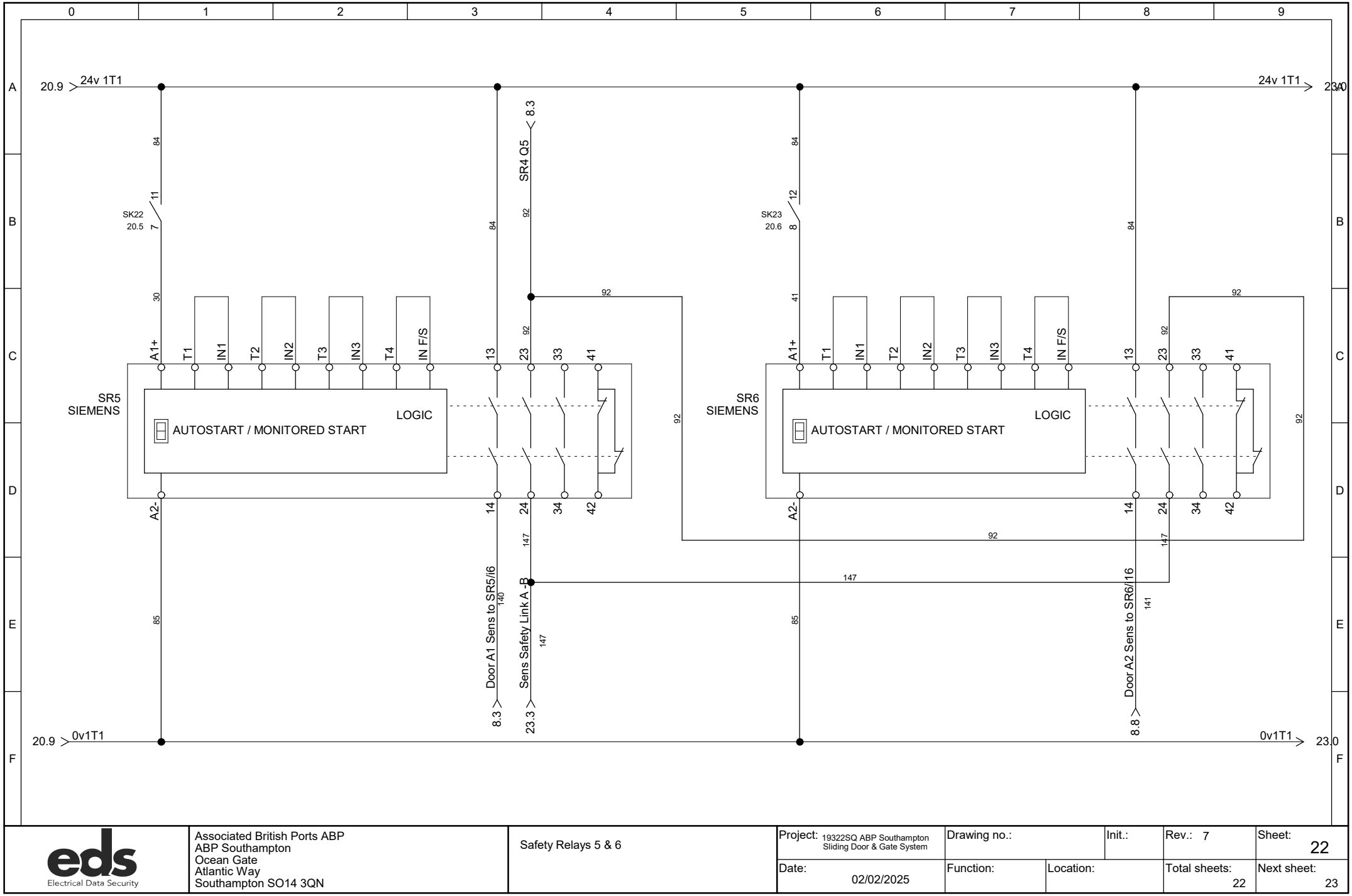
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	SPBB Relay Wiring Team 1	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 19
			Date: 07/11/2024	Function:	Location:	Total sheets: 22	Next sheet: 20



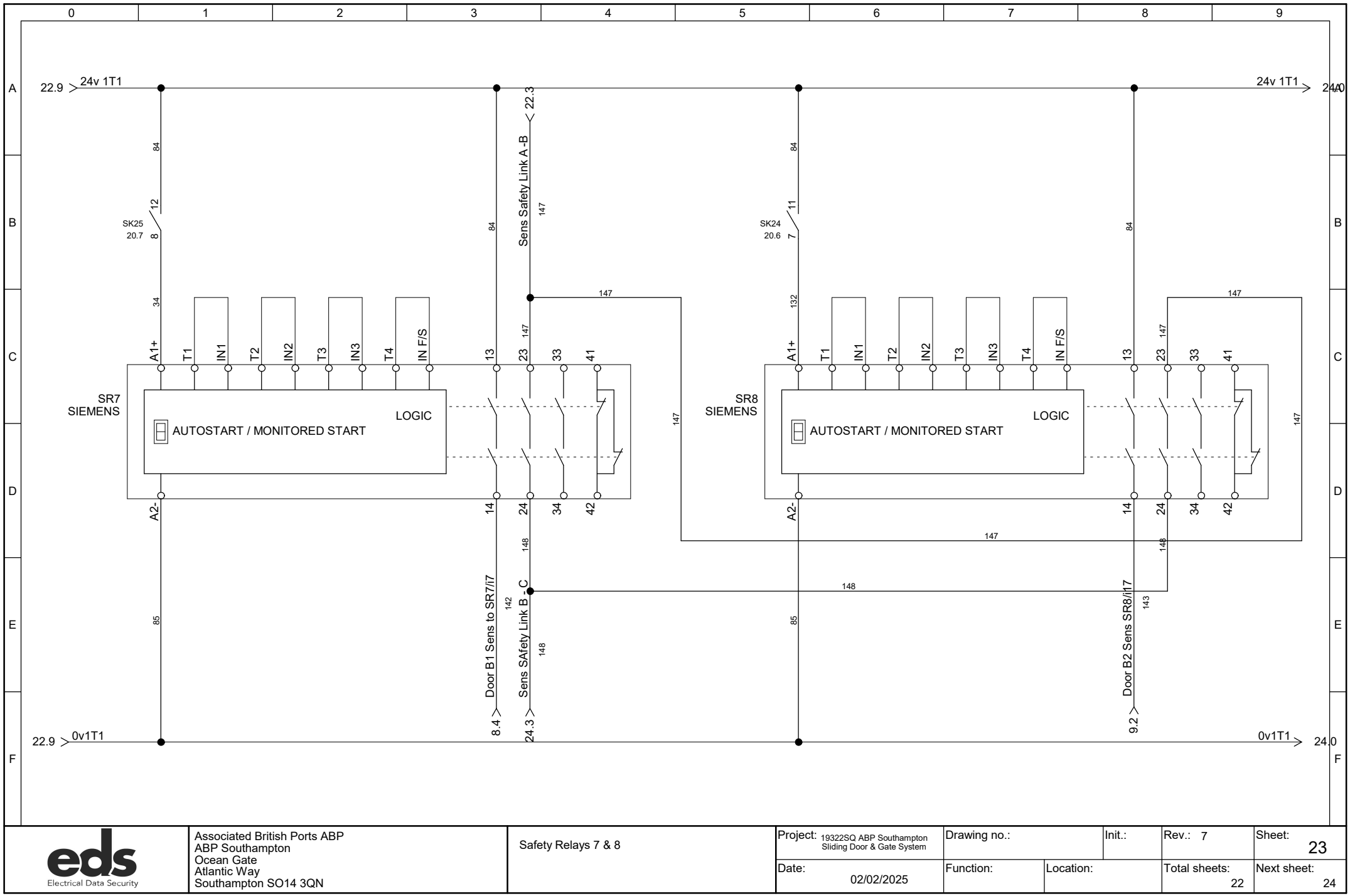
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Relays 2	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 20
			Date: 29/01/2025	Function:	Location:	Total sheets: 22	Next sheet: 21



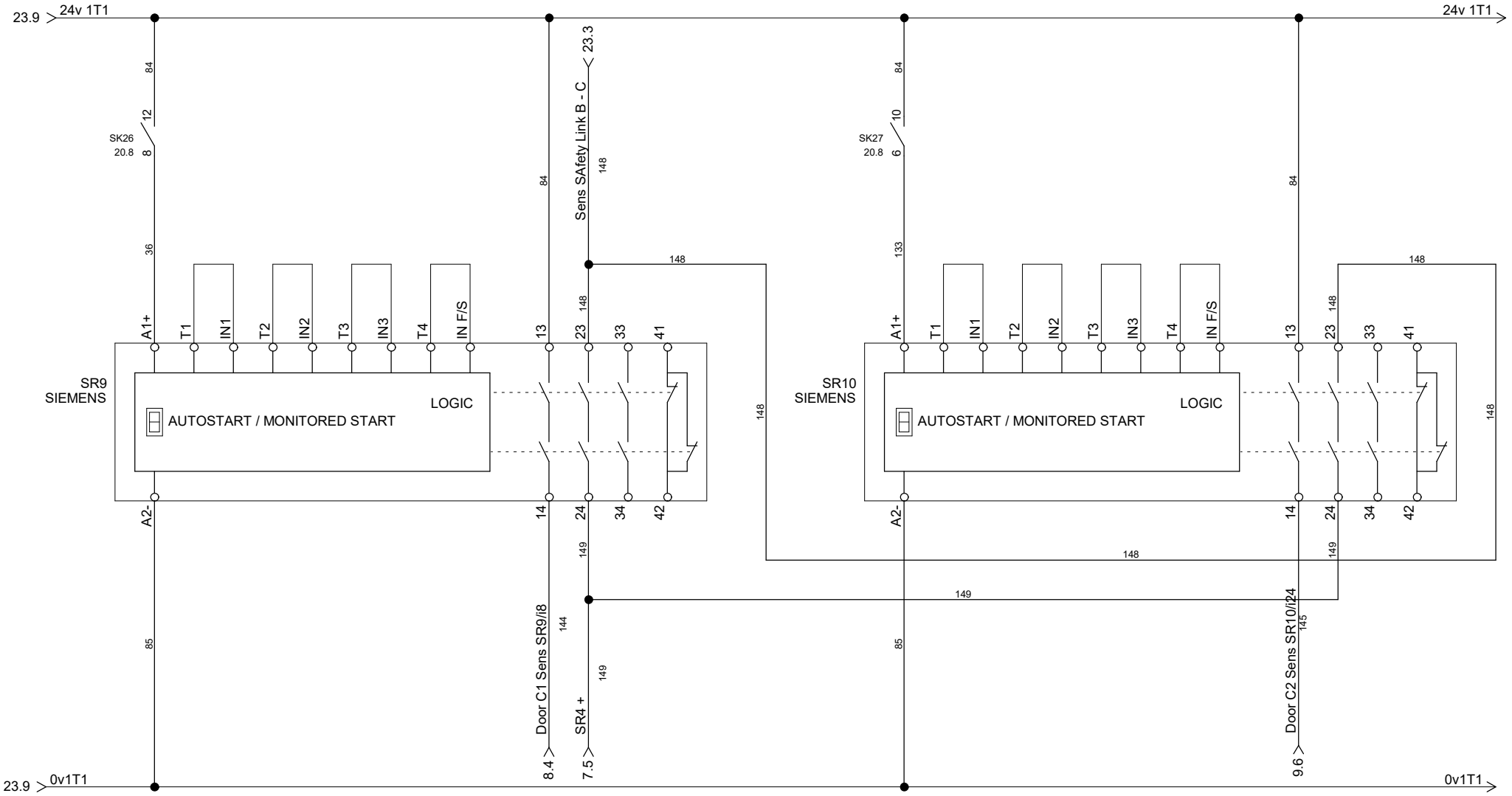
eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Sensor Connection Box	Project: 4322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 21
			Date: 29/01/2025	Function:	Location:	Total sheets: 22	Next sheet: 22



eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Safety Relays 5 & 6	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 22
			Date: 02/02/2025	Function:	Location:	Total sheets: 22	Next sheet: 23



eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Safety Relays 7 & 8	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 23
			Date: 02/02/2025	Function:	Location:	Total sheets: 22	Next sheet: 24



eds Electrical Data Security	Associated British Ports ABP ABP Southampton Ocean Gate Atlantic Way Southampton SO14 3QN	Safety Relays 9 & 10	Project: 19322SQ ABP Southampton Sliding Door & Gate System	Drawing no.:	Init.:	Rev.: 7	Sheet: 24
			Date: 02/02/2025	Function:	Location:	Total sheets: 22	Next sheet: 1

Terminal Matrix

Terminal Strip:
X1

Note	Cable type	Cable name	Connection 1	Term.	No.	Connection 2	Note	Cable type	Cable name	Sheet	Cell
			M1:U1	○	U	MCB1:2				1	4
			M1:V1	○	V	MCB1:4				1	4
			M1:W1	○	W	MCB1:6				1	4
			SK11:9	○	1	X3:6				20	1
			SK12:9	○	2	X5:6				20	2
			SK13:9	○	3	X7:6				20	3
			SK25:A1	○	4	X2:31				20	7
			SK26:A1	○	5	X2:25				20	8
			X3:3	◎	6	24v 1T1				20	1
			X5:3	○							
			X3:2	○	7	SK4:5				3	6
			X5:2	○	8	SK5:5				3	7
			X7:2	○	9	SK6:5				3	7
			0v1T1	◎	10	X3:1				3	6
				○		X5:1					
			SK27:A1	○	11	X2:34				20	8
			D2	○	13	X2:4				8	5
			SK11:A1	○	14	X3:10				20	1
			D3	○	16	X2:1				12	
				○	16					12	
				○	16					13	
			SK20:3	○	17	E1:1				3	2
			SK20:4	○	18	E1:2				3	3
			D2	○	19	X2:13				8	5
			SK12:A1	○	20					20	2
				○	22	D3:1				9	6
			SK21:3	○	23	E2:1				3	4
			SK21:4	○	24	E2:2				3	4
			D2	○	25	X2:22				8	6
				○	26	D3:2				9	6
			SK24:A1	○	27	X2:16				20	6
			SK13:A1	○	28					20	3
			0v1T1	◎	29	X2:2				9	6
			X2:3	◎	30	24v 1T1				9	6
			D1	○	31	S19:2				8	2
			S19:1	◎	32	24v 1T1				8	2
			D1	○	33	S20:2				8	3
			S20:1	◎	34	24v 1T1				8	3
			D2	○	35	S28:4				8	7
			S28:3	◎	36					8	7
			D2	○	37	S29:4				8	8
			S29:3	◎	38	D3				8	8
			0v1T1	◎	39	P12				20	9
			P12	○	40	SK4:7				20	9
				○		SK6:7					
			D3	○	41	S50:4				9	3
			S50:3	◎	42	24v 1T1				9	3
			D2	○	43	S27:4				8	7
			S27:3	◎	44	24v 1T1				8	7
			P1	○	46	D1:2				8	3
			P6	○	47	D3:2				9	5
			P2	○	48	SK28:7				20	3
			0v1T1	◎	49	P1				8	3
				○		P2					
				○		P3					

---- Cable ----

---- Cable ----

- Logo -

X1

Project: 193229Q ABP Southampton_7

Date: 23/04/2025

Drawing no.:

Function:

Location:

Rev.:

Init.:

Page: 1

Terminal Matrix

Terminal Strip:
X1

Note	Cable type	Cable name	Connection 1	Term.	No.	Connection 2	Note	Cable type	Cable name	Sheet	Cell
		----- Cable -----	P3		50	SK29:7			----- Cable -----	20	4
			P5		51	D3:2				9	4
			P4		52	SK30:8				20	5
			S31		53	D2:1				8	3
			D1:1		54	S31				8	3
			D2:1								
					55	SK3:2				1	5
					56	SK3:1				1	5
			P8:1		58	SK1:5				3	6
			P7		60	SK2:5				3	5
			SE1:11		61					9	7
			SE1:3		62					9	8
			SE1:3		63					9	8
			SE1:10		64					9	8
			X3:12		66					13	4
			X5:12								
			X7:12								
			SR1:23		67					4	3
					68	SR3:24				7	4
			X3:13		69	24v 1T1				9	5
			X5:13								
			X7:13								
			D3		70					9	5
			X3:14								
			X5:14								
			X7:14								
			X3:21		71	SK20:7				13	6
			X5:21								
			X7:21								
			X3:22		72	SK20:8				13	6
			X5:22								
			X7:22								
			X3:23		73	SK21:7				13	6
			X5:23								
			X7:23								
			X3:24		74	SK21:8				13	6
			X5:24								
			X7:24								
			X3:19		75					13	6
			X5:19								
			X7:19								
			X3:20		76					13	6
			X5:20								
			X7:20								
			X3:15		77					13	5
			X5:15								
			X7:15								
			X3:16		78					13	5
			X5:16								
			X7:16								
			X3:17		79					13	5
			X5:17								
			X7:17								
			X3:18		80					13	5
			X5:18								

- Logo -

X1

Project: 193229Q ABP Southampton_7

Date: 23/04/2025

Drawing no.:

Function:

Location:

Rev.:

Init.:

Page: 2

Terminal Matrix

Terminal Strip: X1

Connection 1	Term.	No.	Connection 2	Cell	Sheet
X7:18	○	80		5	13
	◎	81		4	13
	◎	82		5	13
	◎	83		5	13
X3:11	◎	65		4	13
X5:11	○				
X7:11	○				
	◎	84		5	13
	◎	85		5	13
	◎	86		5	13
	◎	87		6	13
	◎	88		6	13
	○	89	SK20:11	2	3
	○	90	SK20:12	3	3
	○	91	SK21:11	4	3
	○	92	SK21:12	5	3
SK22:A1	○	93	X2:7	5	20
SK23:A1	○	94	X2:28	6	20

Note	Cable type	Cable name	----- Cable -----

Note	Cable type	Cable name	----- Cable -----

- Logo -		X1	Project: 19322SQ ABP Southampton_7	Drawing no.:	Rev.:	Init.:
			Date: 23/04/2025	Function:	Location:	Page: 3

Terminal Matrix

Terminal Strip: X2

No.	Cell	Sheet	Connection 1	Connection 2
1	0	12	B1:2	X1:16
2	0	12		X1:29
3	1	12	B1:24v	X1:30
4	1	12	B2:2	X1:13
5	1	12	B2:0v	
6	2	12	B2:24v	
7	2	12	B3:4	X1:93
8	2	12	B3:0v	
9	2	12	B3:24v	
10	3	12	B4:2	
11	3	12	B4:0v	
12	3	12	B4:24v	
13	4	12	B5:2	X1:19
14	4	12	B5:0v	
15	5	12	B5:24v	
16	5	12	B6:4	X1:27
17	5	12	B6:0v	
18	6	12	B6:24v	
19	6	12	B7:2	
20	6	12	B7:0v	
21	7	12	B7:24v	
22	7	12	B8:2	X1:25
23	7	12	B8:0v	
24	8	12	B8:24v	
25	8	12	B9:4	X1:5
26	9	12	B9:0v	
27	9	12	B9:24v	
28	2	21	B10:4	X1:94
29	3	21	B10:3	
30	3	21	B10:1	
31	4	21	B11:4	X1:4
32	4	21	B11:3	
33	5	21	B11:1	
34	5	21	B12:4	X1:11
35	6	21	B12:3	
36	6	21	B12:1	

Note	Cable type	Cable name	----- Cable -----

- Logo -		X2	Project: 19322SQ ABP Southampton_7	Drawing no.:	Rev.: / Init.:
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Terminal Matrix

Terminal Strip: X3

Cell	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	7	7
Sheet	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Connection 1	P11	P11	S51	S51	S56	S56	S51	S51	S56	S56																	
Term.	○	○	◎	◎	◎	○	◎	◎	◎	◎	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Connection 2	X1:10	X1:7	X1:6			X1:1				X1:14	X1:65	X1:66	X1:69	X1:70	X1:77	X1:78	X1:79	X1:80	X1:75	X1:76	X1:71	X1:72	X1:73	X1:74			

Note	Cable type	Cable name	----- Cable -----

Note	Cable type	Cable name	----- Cable -----

- Logo -		X3	Project: 19322SQ ABP Southampton_7	Drawing no.:	Rev.:	Init.:
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Terminal Matrix

Terminal Strip: X5

Cell	Sheet	Connection 1	Term.	No.	Connection 2
2	14	P10	○	1	X1:10
			○		X7:1
2	14	P10	○	2	X1:8
2	14	S61	◎	3	X1:6
			○		X7:3
3	14	S61	◎	4	
3	14	S62	◎	5	
3	14	S62	○	6	X1:2
3	14	S61	◎	7	
3	14	S61	◎	8	
3	14	S62	◎	9	
3	14	S62	◎	10	
4	14		○	11	X1:65
4	14		○	12	X1:66
4	14		○	13	X1:69
4	14		○	14	X1:70
5	14		○	15	X1:77
5	14		○	16	X1:78
5	14		○	17	X1:79
5	14		○	18	X1:80
5	14		○	19	X1:75
6	14		○	20	X1:76
6	14		○	21	X1:71
6	14		○	22	X1:72
6	14		○	23	X1:73
6	14		○	24	X1:74
6	14		○	25	
7	14		○	26	

Note	Cable type	Cable name	----- Cable -----

Note	Cable type	Cable name	----- Cable -----

- Logo -

X5

Project:	Drawing no.:	Rev.:	Init.:
19322SQ ABP Southampton_7			
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Terminal Matrix

Terminal Strip: X7

Cell	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	7	7
Sheet	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15

Note	Cable type	Cable name	----- Cable -----

Connection 1	Term.	No.	Connection 2
P9	○	1	X5:1
P9	○	2	X1:9
S67	◎	3	X5:3
S67	◎	4	
S68	◎	5	
S68	○	6	X1:3
S67	◎	7	
S67	◎	8	
S68	◎	9	
S68	◎	10	
	○	11	X1:65
	○	12	X1:66
	○	13	X1:69
	○	14	X1:70
	○	15	X1:77
	○	16	X1:78
	○	17	X1:79
	○	18	X1:80
	○	19	X1:75
	○	20	X1:76
	○	21	X1:71
	○	22	X1:72
	○	23	X1:73
	○	24	X1:74
	○	25	
	○	26	

Note	Cable type	Cable name	----- Cable -----

- Logo -		X7	Project: 19322SQ ABP Southampton_7	Drawing no.:	Rev.:	Init.:
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