

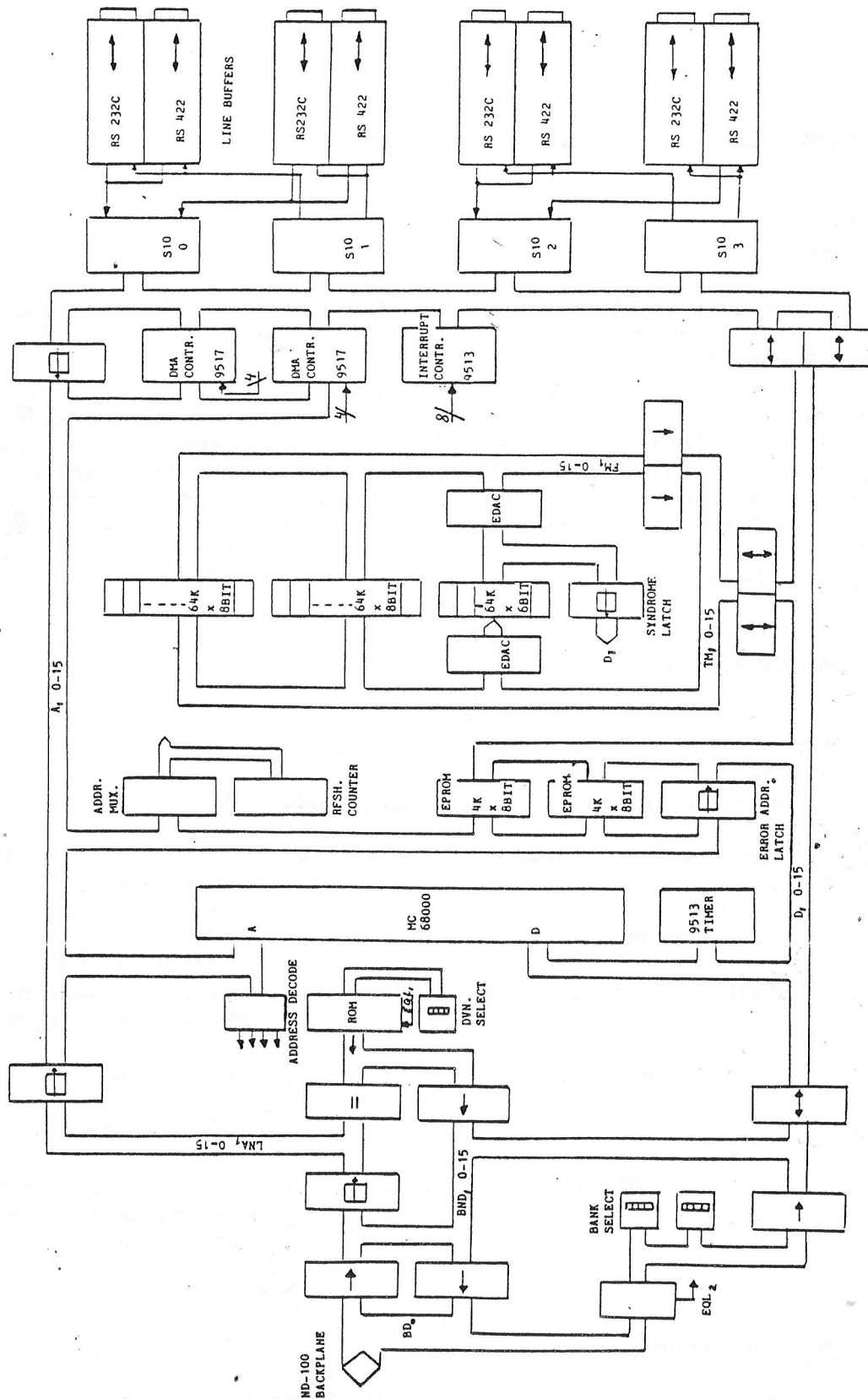


Fig. 1.1. PIOC Block Diagram

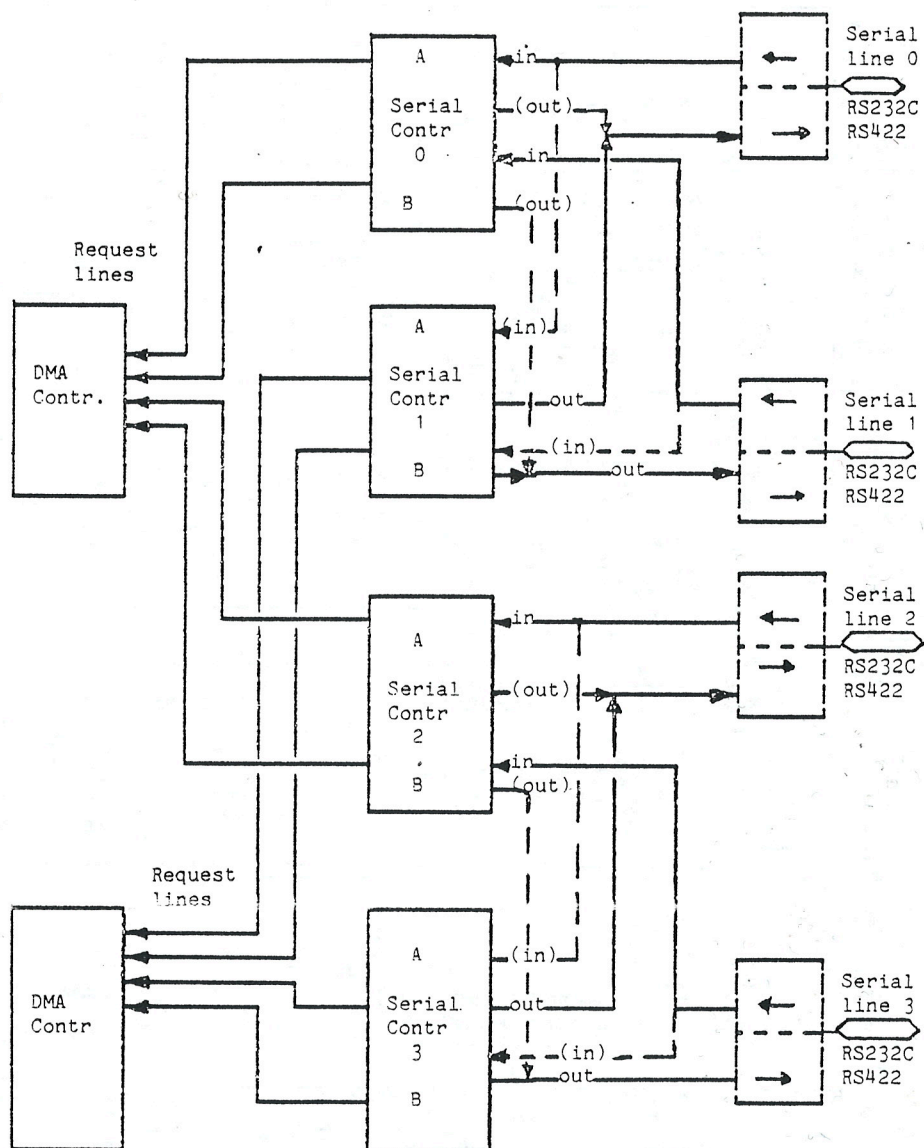
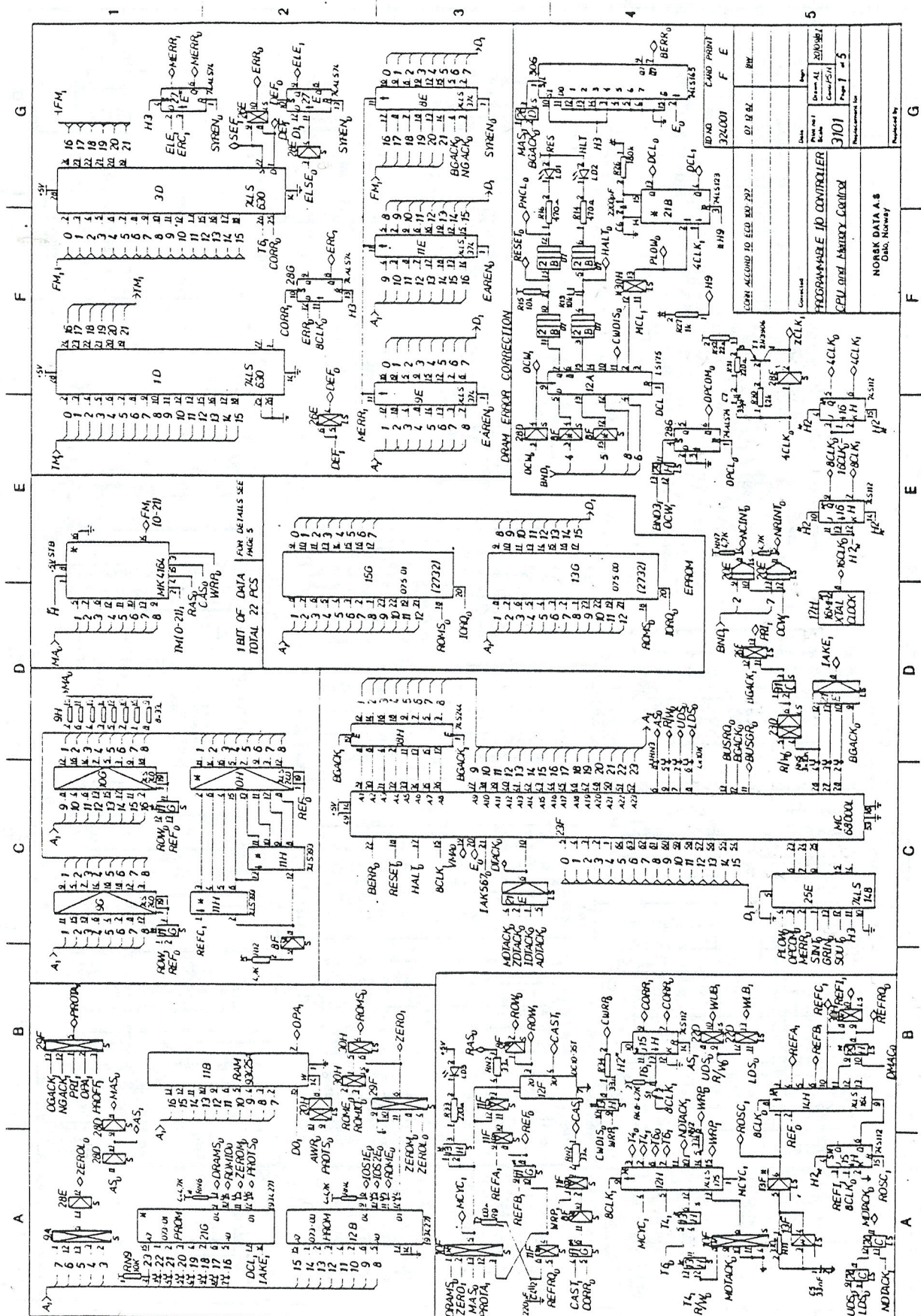


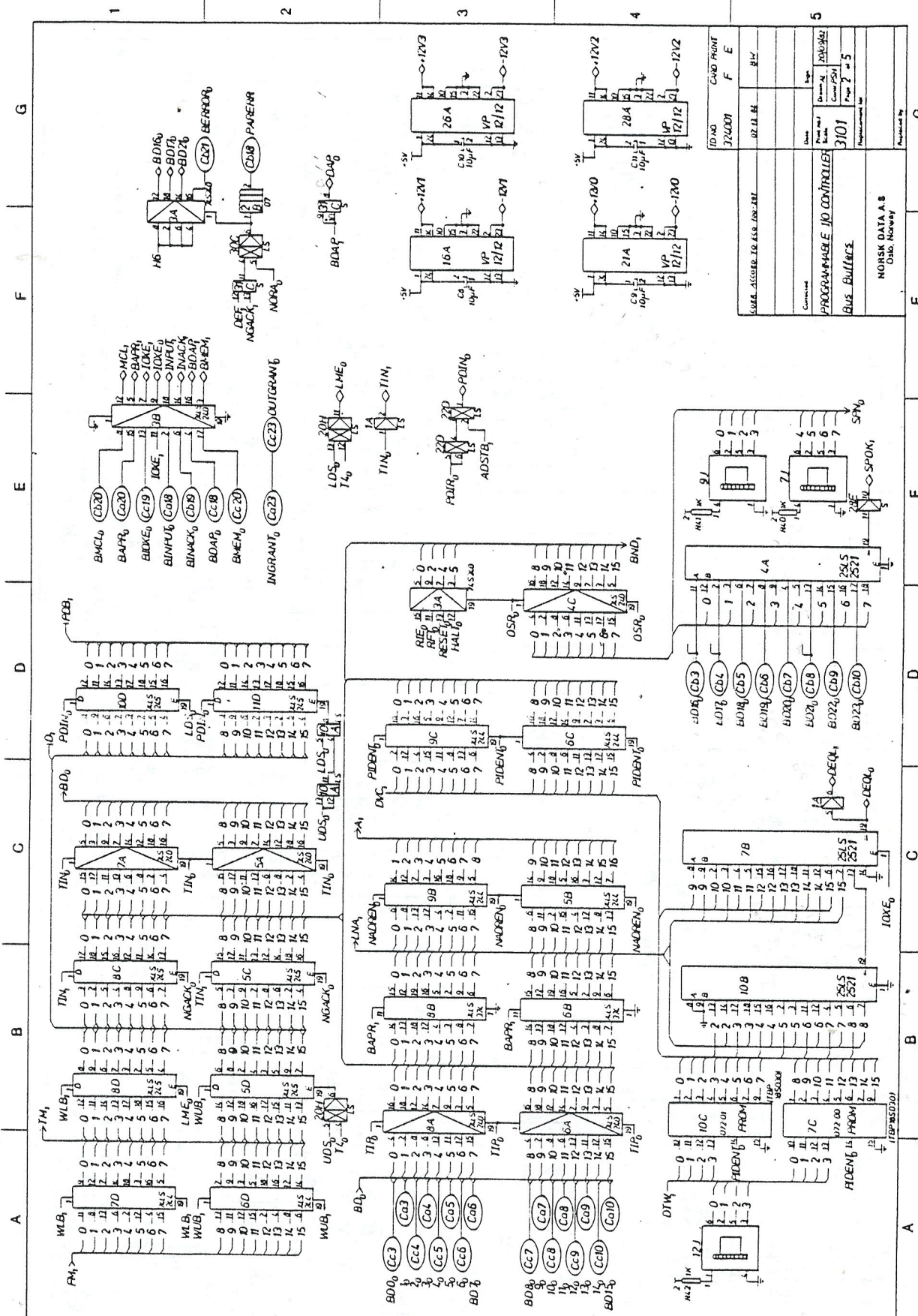
Fig. 5.5. Block Diagram of Serial Controllers and DMA Controllers
(X-21 Auxiliary Channels are dotted)

6 LOGIC DIAGRAMS

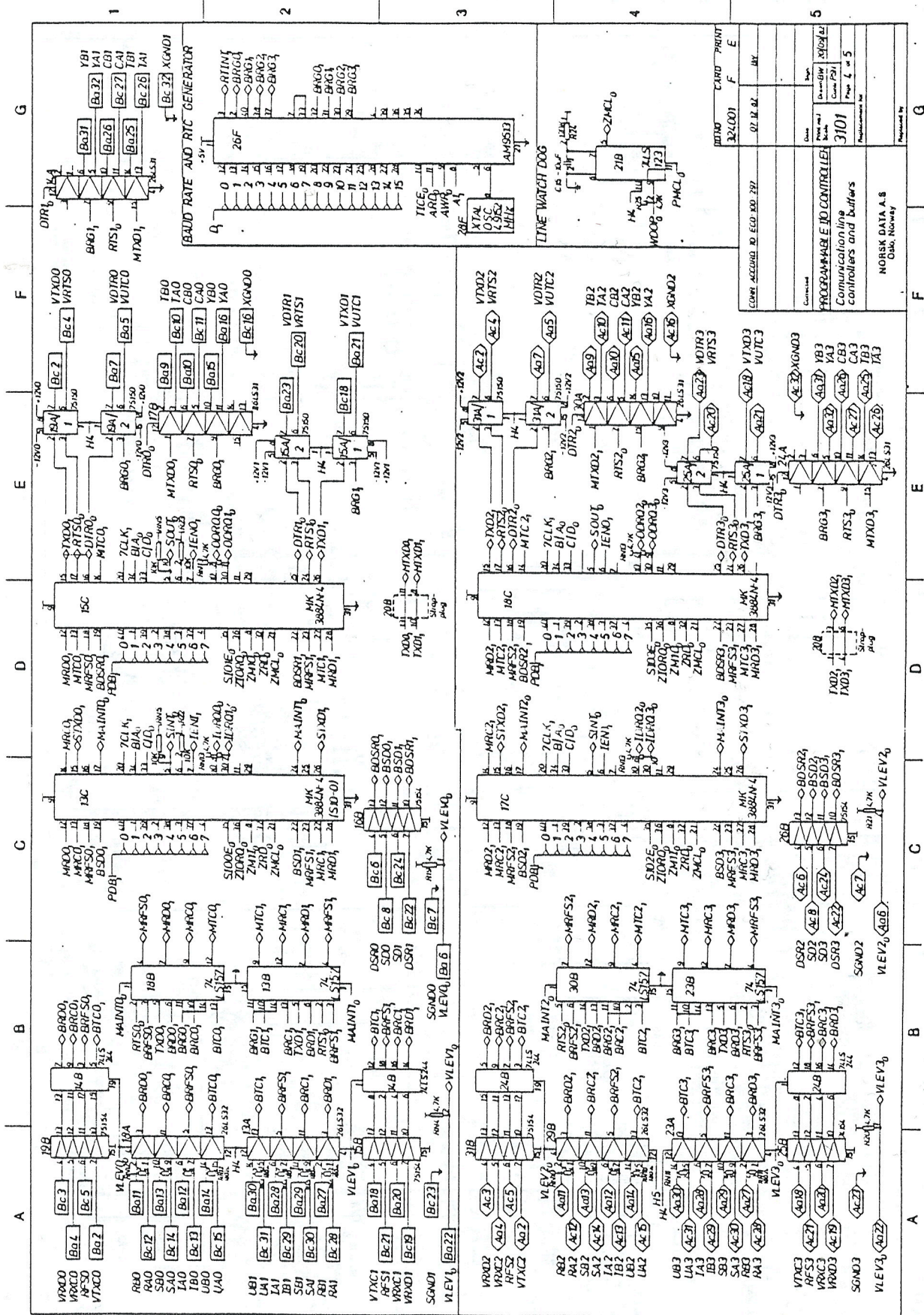
6.1 CPU and Memory Control



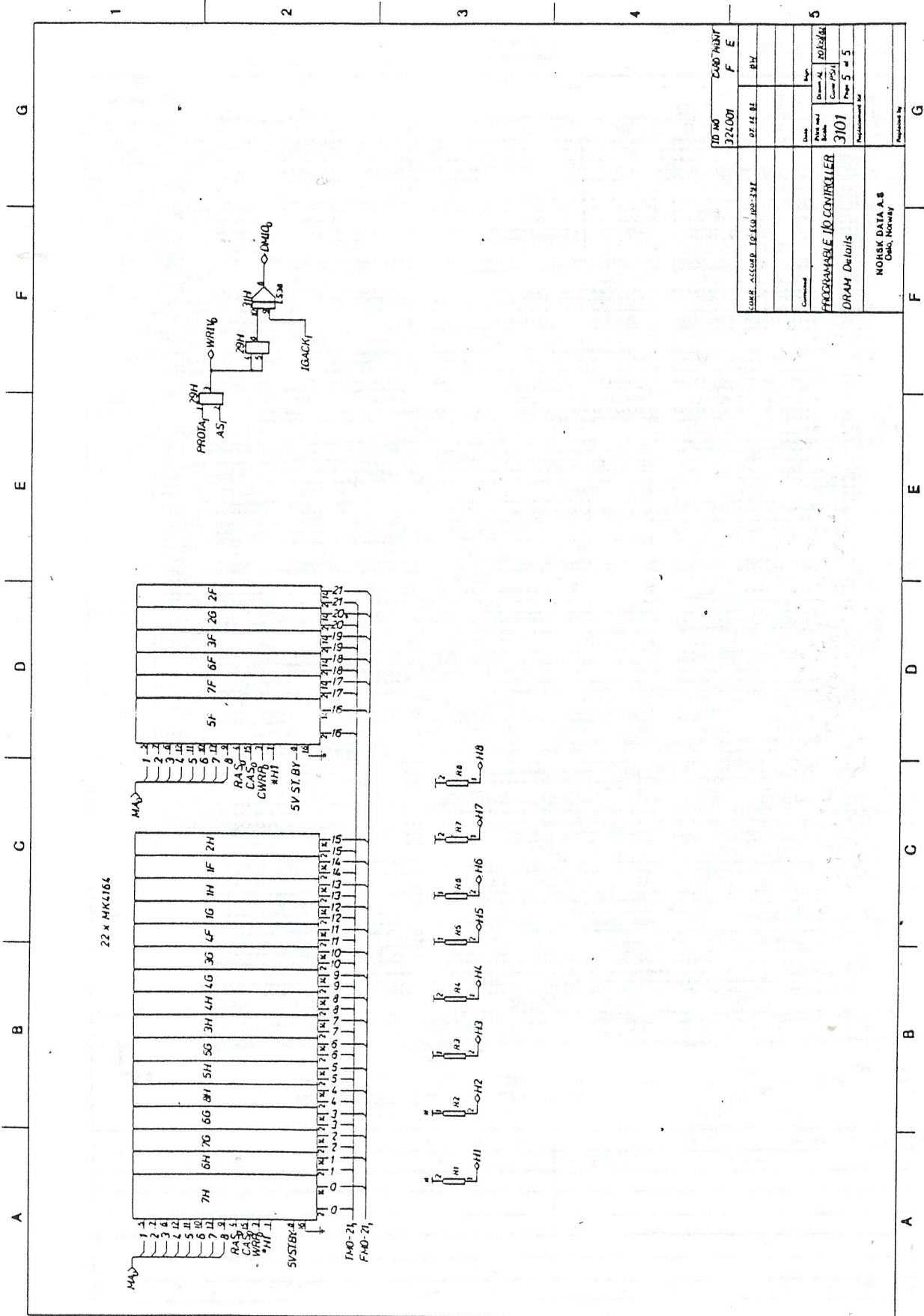
6.2 Bus Buffers



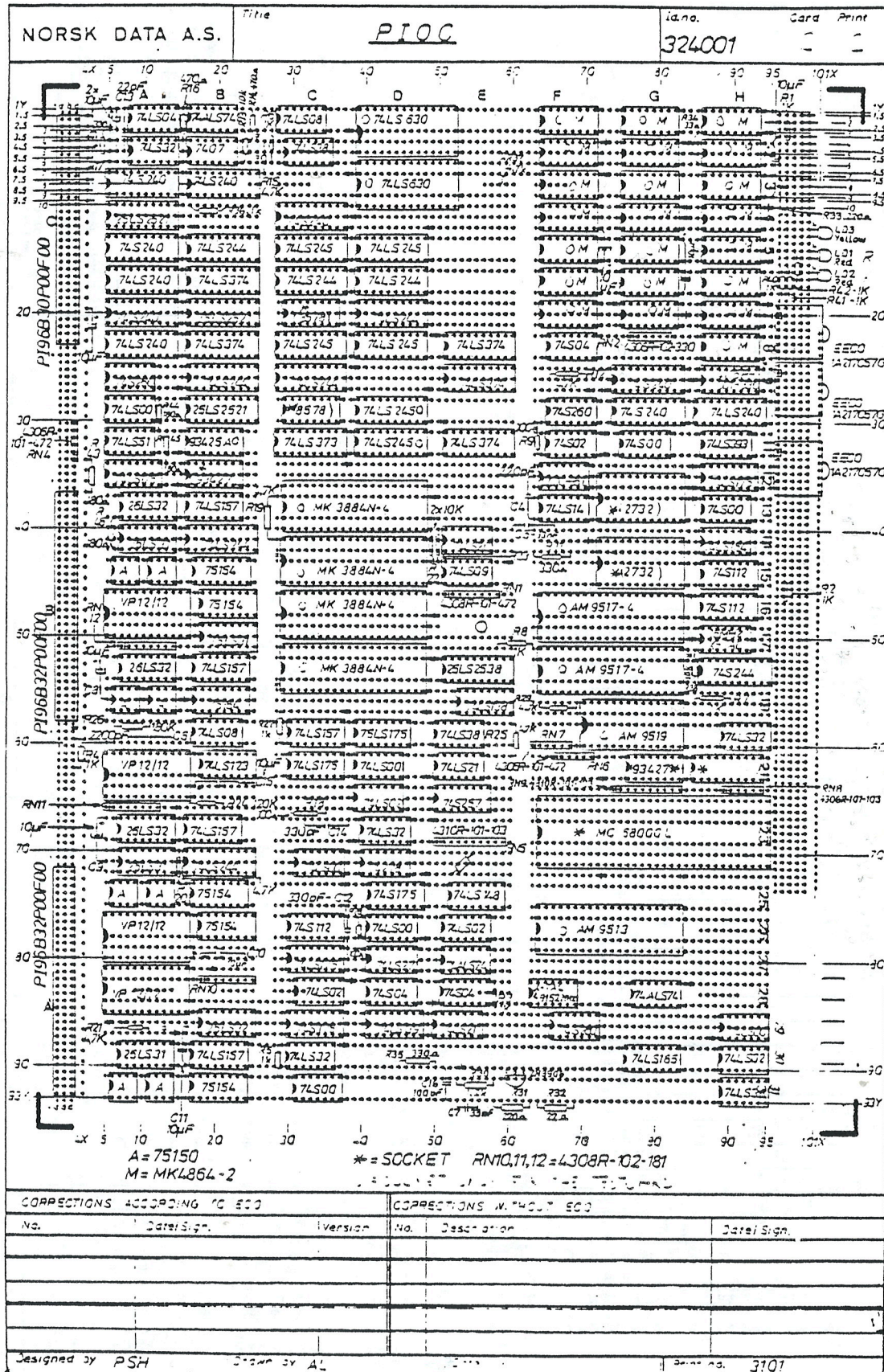
6.4 Communication Line Controllers and Buffers



6.5 DRAM Details



6.6 Layout of Components



NORSK DATA A.S		PIOC Test Plugs						
WIRE NO.	SIGNAL	POLARITY	EUROPLUG NO.	PLUGPANEL 25-pins "D" Female PIN NO.	DEVICE PLUG PIN NO.			
1	CHASSIS		c 1	1		 V - Level Testplug		
2			a 1	14				
3	TXD		c 2	2				
4	TXC		a 2	15				
5	RXD		c 3	3				
6			a 3	16				
7	RTS		c 4	4				
8	RXC		a 4	17				
9	RFS		c 5	5				
10	UTC		a 5	18				
11	DSR		c 6	6				
12	VLEV		a 6	19				
13	GND		c 7	7				
14	DTR		a 7	20				
15	SIGN.DET.		c 8	8				
16			a 8	21				
17	TB		c 9	1		 X - Level Testplug		
18	TA		a 9	14				
19	CB		c 10	2				
20	CA		a 10	15				
21	RB		c 11	3				
22	RA		a 11	16				
23	IA		c 12	4				
24	IF		a 12	17				
25	SB		c 13	5				
26	SA		a 13	18				
27	UB		c 14	6				
28	UA		a 14	19				
29	YB		c 15	7				
30	YB		a 15	20				
31	GND		c 16	8				
32	YA		a 16	21				
EXTERNAL CABLE TYPE : 64 wire flatcable EXTERNAL CABLE TYPE 1 : EXTERNAL CABLE TYPE 2 : EXTERNAL CABLE TYPE 3 : EXTERNAL CABLE TYPE 4 :								
Drawn by		Remarks			Replacement for		Date	
Approved					Replaced by		Date	
Date								

NORSK DATA A.S.		PIOC External Cables					
WIRE NO.	SIGNAL	POLARITY	EUROPLUG NO.	PLUGPANEL 25-pins "D" Female PIN NO.	DEVICE PLUG PIN NO.		
1	CHASSIS		c 1	1	1	PIOC TO V-TYPE MODEM 25 pin "D" part no. 325 872	
2			a 1	14			
3	TXD		c 2	2	2		
4	TXC		a 2	15	15		
5	RXD		c 3	3	3		
6			a 3	16			
7	RTS		c 4	4	4		
8	RXC		a 4	17	17		
9	RFS		c 5	5	5		
10	UTC		a 5	18	NC		
11	DSR		c 6	6	6		
12	VLEV		a 6	19	NC		
13	GND		c 7	7	7		
14	DTR		a 7	20	20		
15	SIGN.DET.		c 8	8	8		
16			a 8	21			
17			c 9	1		PIOC TO X-21 MODEM 15 PIN "D" part no. 325 872	
18	TB		a 9	14	9		
19	TA		c 10	2	2		
20	CB		a 10	15	10		
21	CA		c 11	3	3		
22	RB		a 11	16	11		
23	RA		c 12	4	4		
24	IA		a 12	17	12		
25	IB		c 13	5	5		
26	SB		a 13	18	13		
27	SA		c 14	6	6		
28	UB		a 14	19			
29	UA		c 15	7			
30	YB		a 15	20			
31	GND		c 16	3	3		
32	YA		a 16	21			
33	CHASSIS		c 17	1		PIOC COMPUTER LINK 25 PIN "D" part no. 325 233	
34			a 17	14			
35	TXD		c 18	2			
36			a 18	15			
37	RXD		c 19	3			
38			a 19	16			
39	RTS		c 20	4			
40			a 20	17			
41	RFS		c 21	5			
42			a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN.DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1		PIOC COMPUTER LINK 25 PIN "D" part no. 325 233	
50	TB		a 25	14	16		
51	TA		c 26	2	4		
52	CB		a 26	15	15		
53	CA		c 27	3	5		
54	RB		a 27	16	14		
55	RA		c 28	4	2		
56	IA		a 28	17	17		
57	IB		c 29	5	3		
58	SB		a 29	18	10		
59	SA		c 30	6	7		
60	UB		a 30	19	18		
61	UA		c 31	7	6		
62	YB		a 31	20	NC		
63	GND		c 32	8	NC		
64	YA		a 32	21	NC		

EXTERNAL CABLE TYPE : 64 wire flatcable

EXTERNAL CABLE TYPE 1 :

EXTERNAL CABLE TYPE 2 :

EXTERNAL CABLE TYPE 3 :

EXTERNAL CABLE TYPE 4 :

Drawn by

Remarks

Replacement for

Date

Approved

Replaced by

Date

Date