

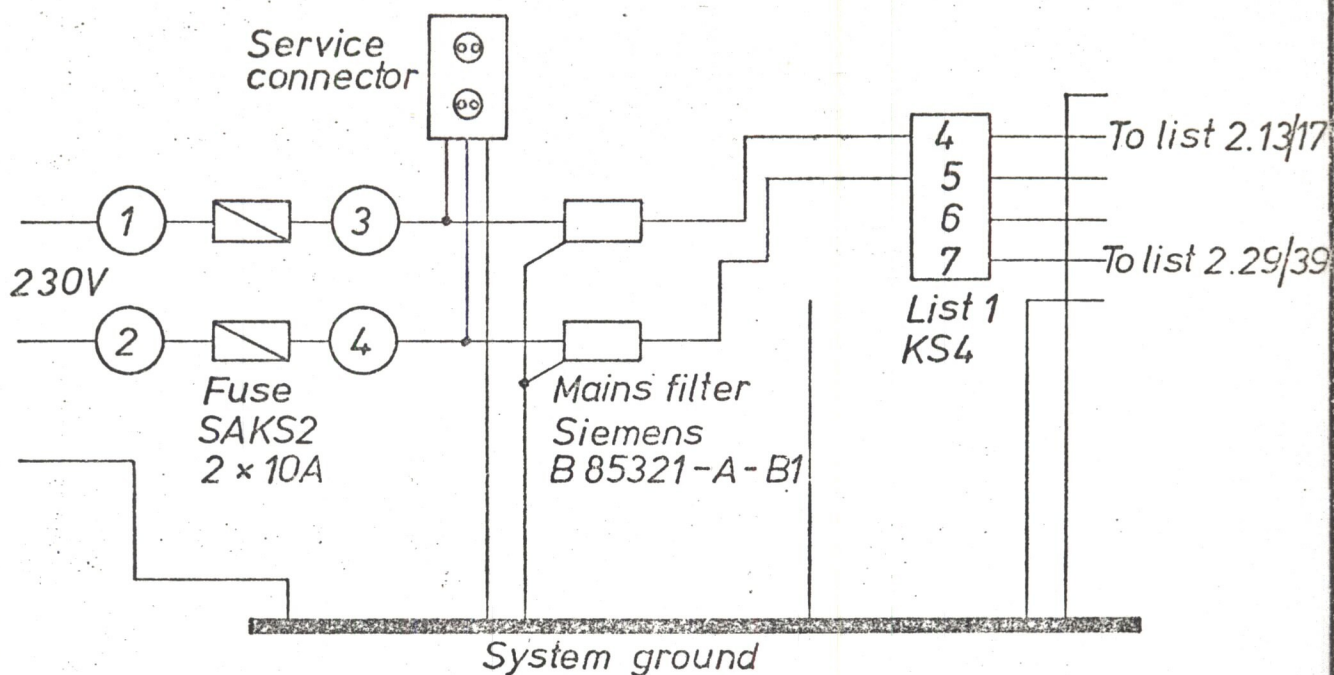
NORD-50

HARDWARE MANUAL II

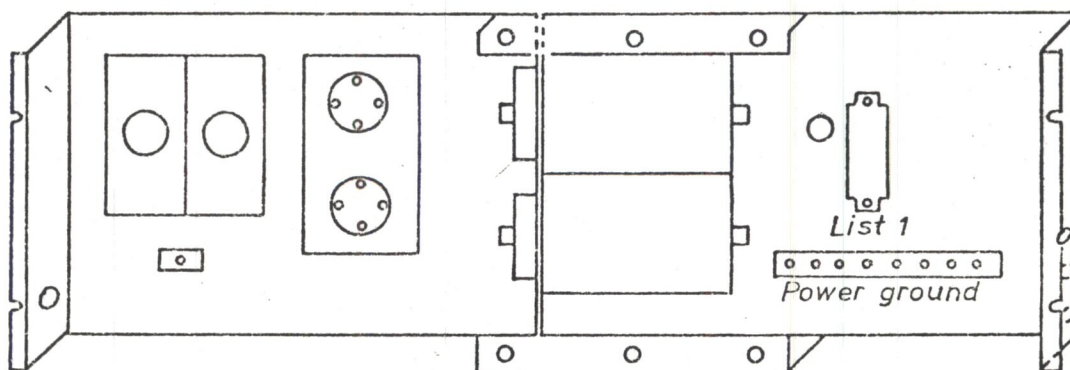
February, 1976

CONTENTS

- 1 Power System
- 2 Card Assembly
- 3 Flow Charts
- 4 Logic Diagrams
- 5 Plug Lists
- 6 Operator Panel
- 7 Modifications
- 8 Service Reports (HSFR)



Mains filter



Single wire 1,5 $\square$
Blue: Phase R
Grey: Phase S
Yellow: Power ground.

DRAWN BY *BB0*

APPROVED BY *E. B*

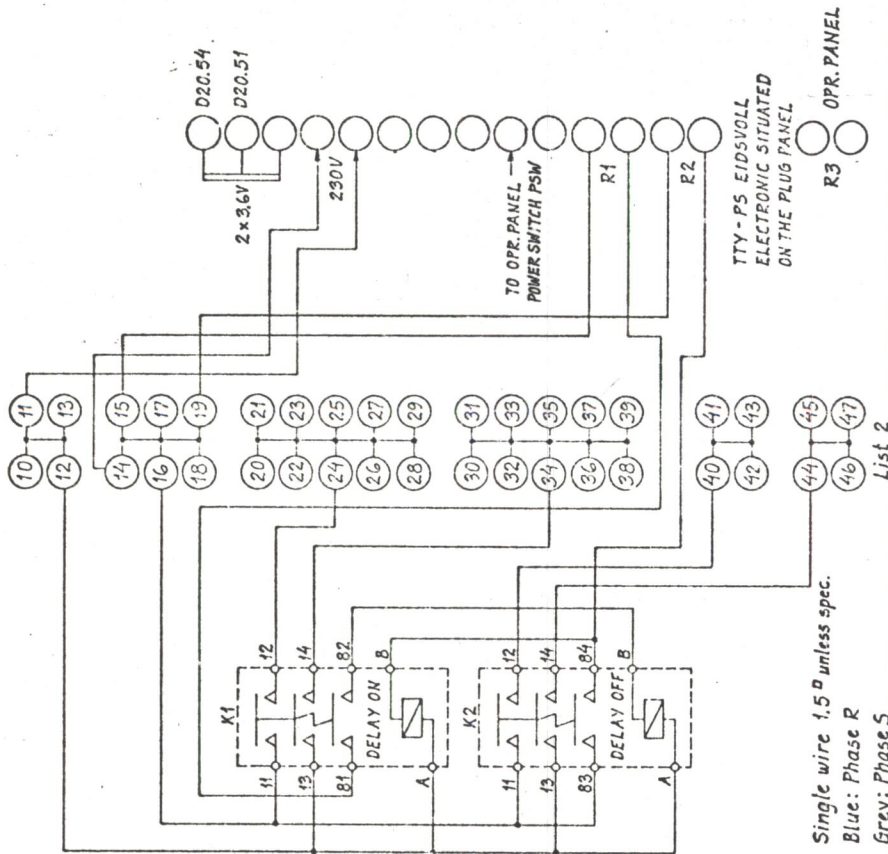
DATE *8.4.75.*

Remarks

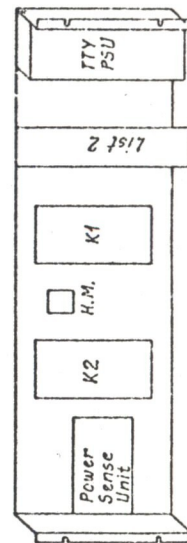
CPU CABINET

Replacement for Date

Replaced by Date



Single wire 1.5 A unless spec.
 Blue: Phase R
 Grey: Phase S
 Yellow: Power ground



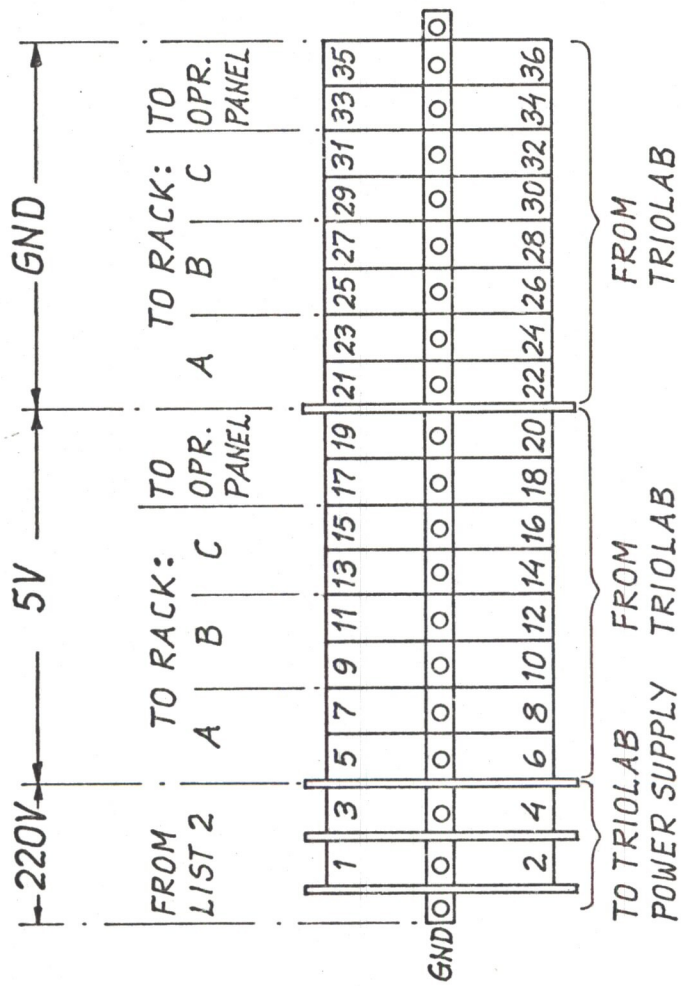
Cable trench fitted on bottom rear side

Power connections List 2

- 10/18 To List 1, 4/5
- 13/17 To fans upper
- 20/30 To hour meter
- 21/31 To fans lower
- 22/32 Power C
- 23/33 To CPU PSU + 5V A
- 25/35 To CPU PSU + 5V B
- 26/36 To fans top
- 27/37 To fans bottom
- 28/38 To List 1, 6/7
- 29/39 41/45
- 42/46
- 43/47

POWER PANEL 2		2826	
AS NOISE DATA ELECTRONICS		2826	
Rev. 0.1	Rev. 0.2	Rev. 0.3	Rev. 0.4
Rev. 0.5	Rev. 0.6	Rev. 0.7	Rev. 0.8
Rev. 0.9	Rev. 1.0	Rev. 1.1	Rev. 1.2
Rev. 1.3	Rev. 1.4	Rev. 1.5	Rev. 1.6
Rev. 1.7	Rev. 1.8	Rev. 1.9	Rev. 2.0



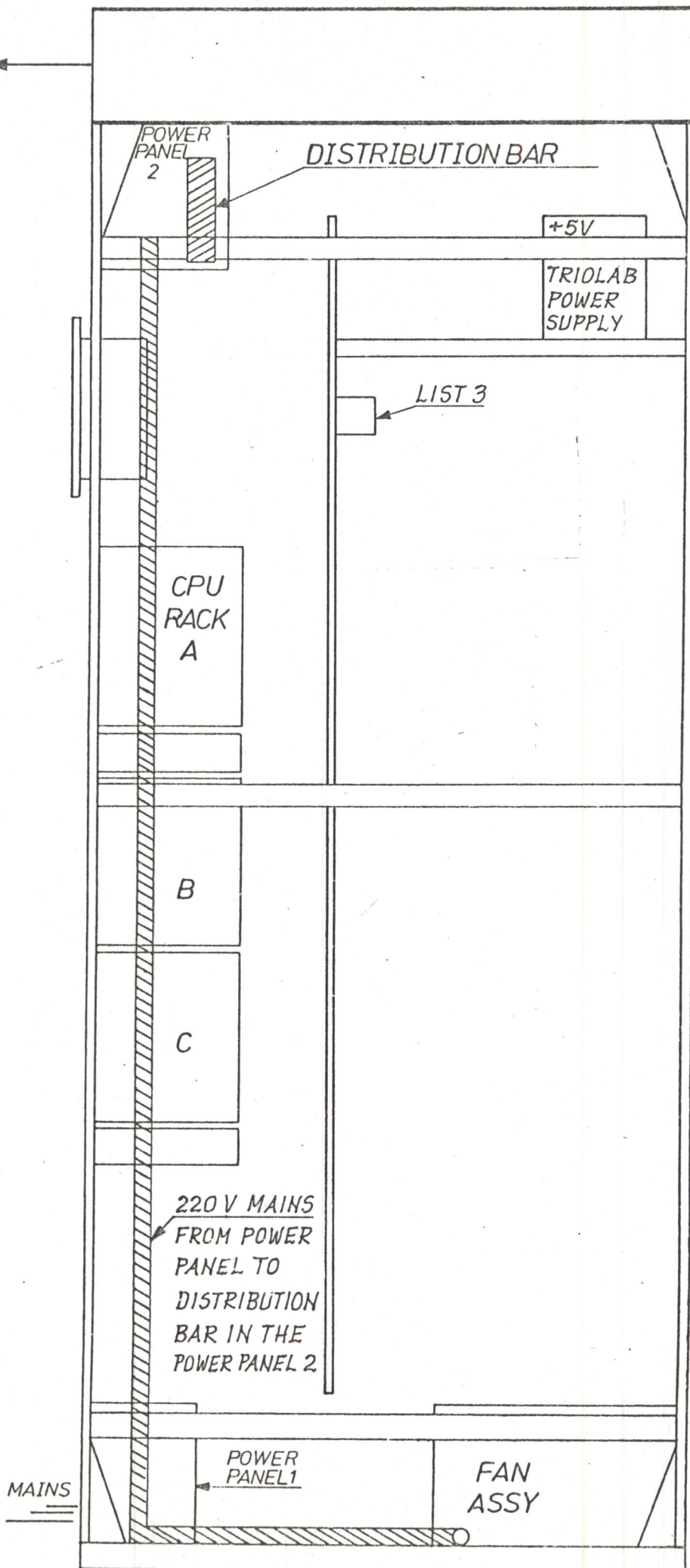


LIST 3

220 VOLTS MAINS DISTRIBUTION.

RIGHT SIDE
VIEW

FRONT ←



A MUL/DIV

1	1521.1B MUL-DIV ARITHMETIC
2	1522.1A OUTPUT SELECTOR
3	1521.2B MUL-DIV ARITHMETIC
4	1522.2A OUTPUT SELECTOR
5	1523.4D B-INPUT
6	1521.3B MUL-DIV ARITHMETIC
7	1522.3A OUTPUT SELECTOR
8	1521.4B MUL-DIV ARITHMETIC
9	1522.4A OUTPUT SELECTOR
10	1523.2D B-INPUT
11	1511A SHIFT MATRIX A
12	1512B SHIFT MATRIX B
13	1525D MUL-DIV TIMING
14	1526C MUL-DIV CONTROL
15	1521.5B MUL-DIV ARITHMETIC
16	1522.5A OUTPUT SELECTOR
17	1523.3D B-INPUT
18	1521.6B MUL-DIV ARITHMETIC
19	1522.6A OUTPUT SELECTOR
20	1521.7B MUL-DIV ARITHMETIC
21	1522.7A OUTPUT SELECTOR
22	1523.1D B-INPUT
23	1524 E EXPONENT ARITHMETIC
24	1522.8A OUTPUT SELECTOR
25	
26	
27	
28	
29	
30	
31	
32	

DRAWN BY PK/eml

Remarks

Replacement for Date

APPROVED BY

Replaced by Date

DATE 13/2/76

B CPU

1	1501.1C ADDRESS ARITHMETIC
2	1502.1C REGISTERS
3	1503.1D ARITHMETIC BUFFER
4	1501.2C ADDRESS ARITHMETIC
5	1502.2C REGISTERS
6	1503.2D ARITHMETIC BUFFER
7	1501.3C ADDRESS ARITHMETIC
8	1502.3C REGISTERS
9	1503.3D ARITHMETIC BUFFER
10	1501.4C ADDRESS ARITHMETIC
11	1502.4C REGISTERS
12	1503.4D ARITHMETIC BUFFER
13	1501.5C ADDRESS ARITHMETIC
14	1502.5C REGISTERS
15	1503.5D ARITHMETIC BUFFER
16	1501.6C ADDRESS ARITHMETIC
17	1502.6C REGISTERS
18	1503.6D ARITHMETIC BUFFER
19	1501.7C ADDRESS ARITHMETIC
20	1502.7C REGISTERS
21	1503.7D ARITHMETIC BUFFER
22	1501.8C ADDRESS ARITHMETIC
23	1502.8C REGISTERS
24	1503.8D ARITHMETIC BUFFER
25	1504E NORD-50 CONTROLLER
26	1505E REGISTER ADDRESS
27	1510E INSTRUCTION CONTROL
28	1508C CHIP SELECT
29	1507D ARITHMETIC CONTROL
30	1506F CYCLE COUNTER
31	1519B TIMING CONTROL
32	1500A N-50 I/O CONTROL

DRAWN BY	PK/eml	Remarks	Replacement for	Date
APPROVED BY				
DATE	16/2/76		Replaced by	Date

C ARIT

1	
2	1513.1F DATA SELECTOR
3	1513.2F DATA SELECTOR
4	1513.3F DATA SELECTOR
5	1511.1A SHIFT MATRIX A
6	1511.2A SHIFT MATRIX A
7	1512.1B SHIFT MATRIX B
8	1512.2B SHIFT MATRIX B
9	1514.1D FLOATING ARITHMETIC
10	1514.2D FLOATING ARITHMETIC
11	1514.3D FLOATING ARITHMETIC
12	1514.4D FLOATING ARITHMETIC
13	1511.3A SHIFT MATRIX A
14	1511.4A SHIFT MATRIX A
15	1512.3B SHIFT MATRIX B
16	1512.4B SHIFT MATRIX B
17	1517.1A DATA BUFFER
18	1517.2A DATA BUFFER
19	1515E SHIFT CONTROL
20	1516E FLOATING CONTROL
21	1513.4F DATA SELECTOR
22	
23	
24	1532.1 DATA AND ADDRESS BUS SELECTOR
25	1531IV DEVICE REGISTERS
26	1532.2 DATA AND ADDRESS BUS SELECTOR
27	
28	MEMORY/N-10 CABLING
29	
30	MEMORY/N-10 CABLING
31	
32	MEMORY/N-10 CABLING

DRAWN BY PK/eml

APPROVED BY

DATE 16/2/76

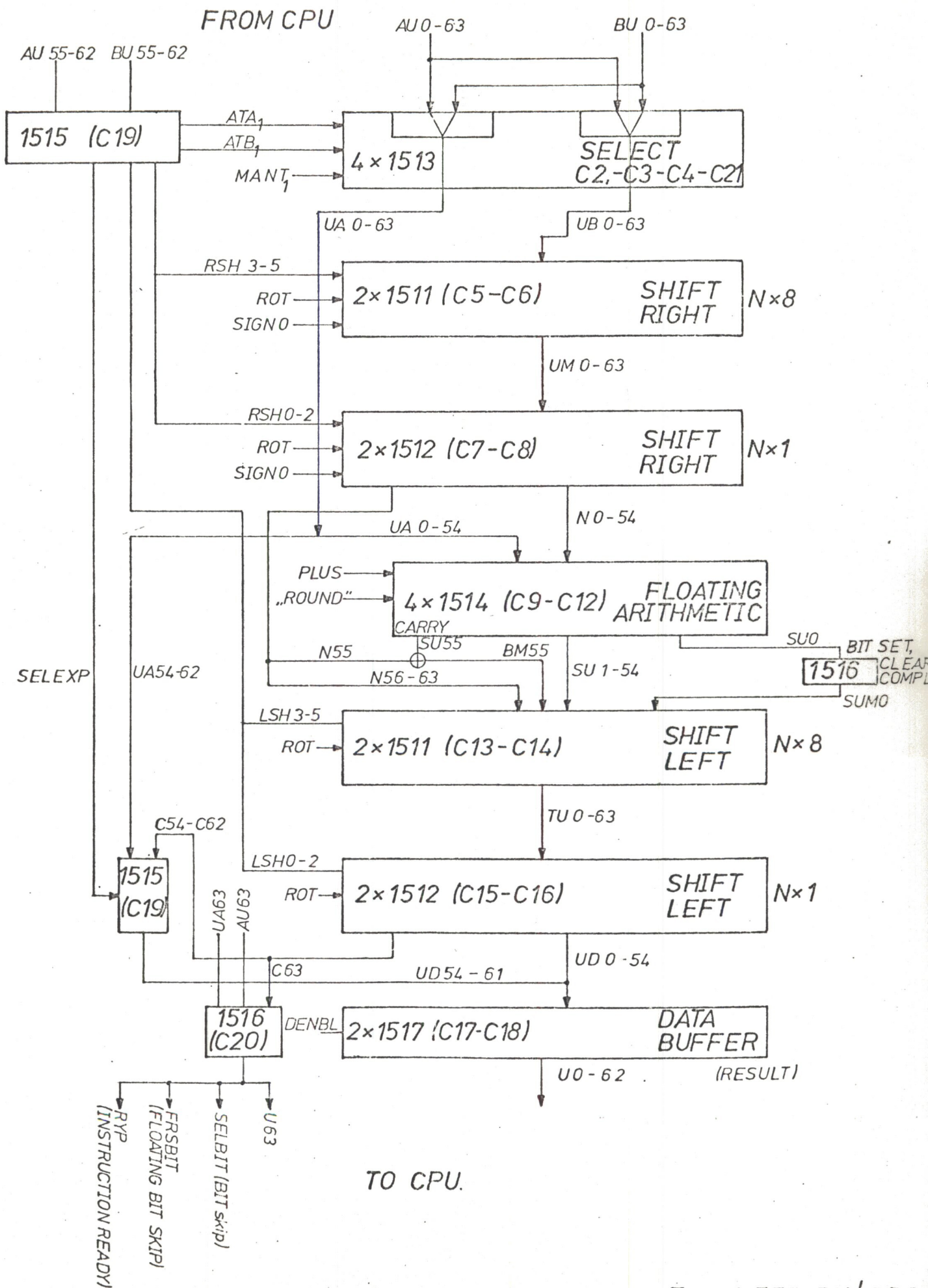
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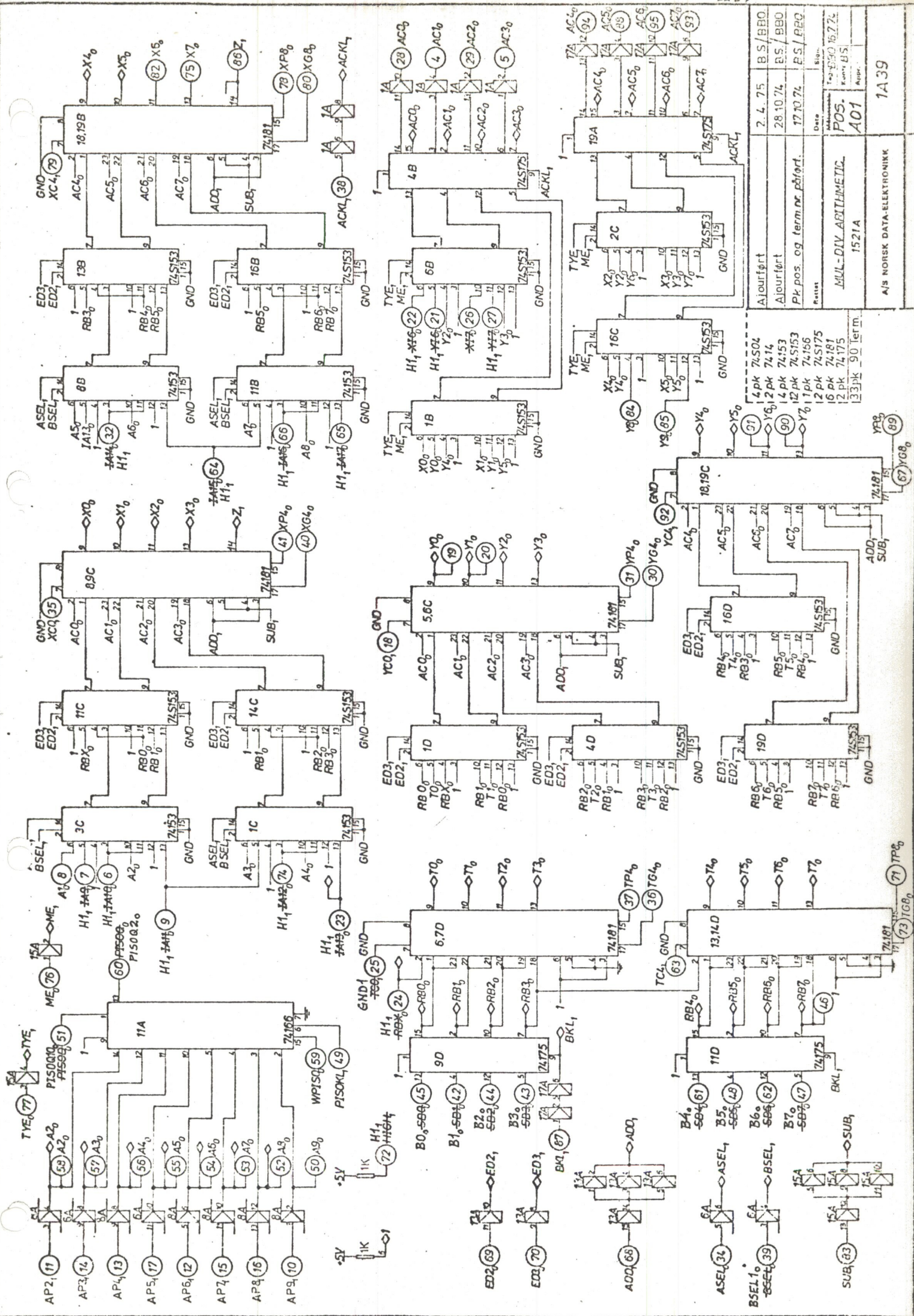
Replacement for Date

Replaced by Date

NORD-50 FLOATING ARITHMETIC

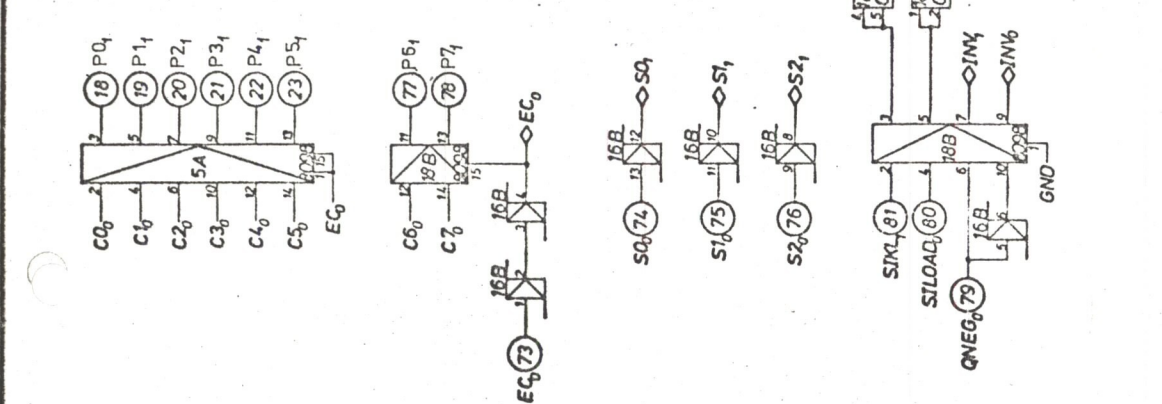
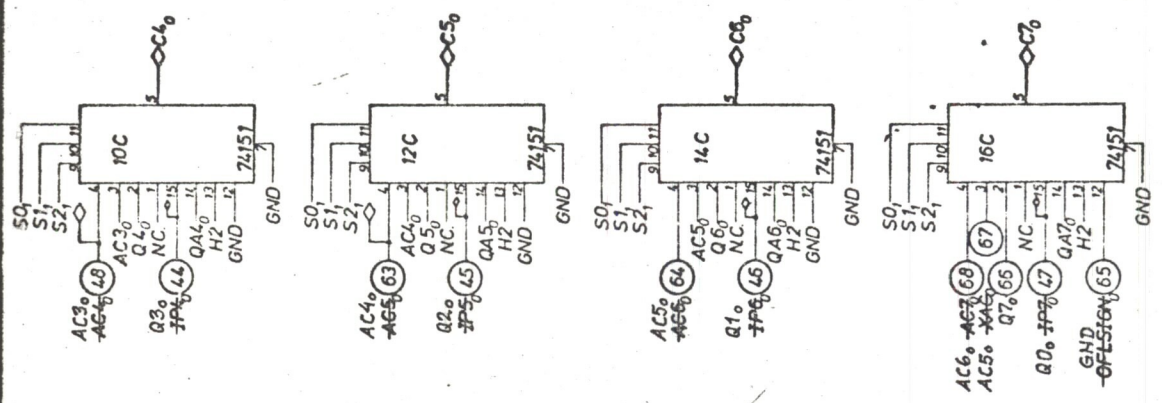
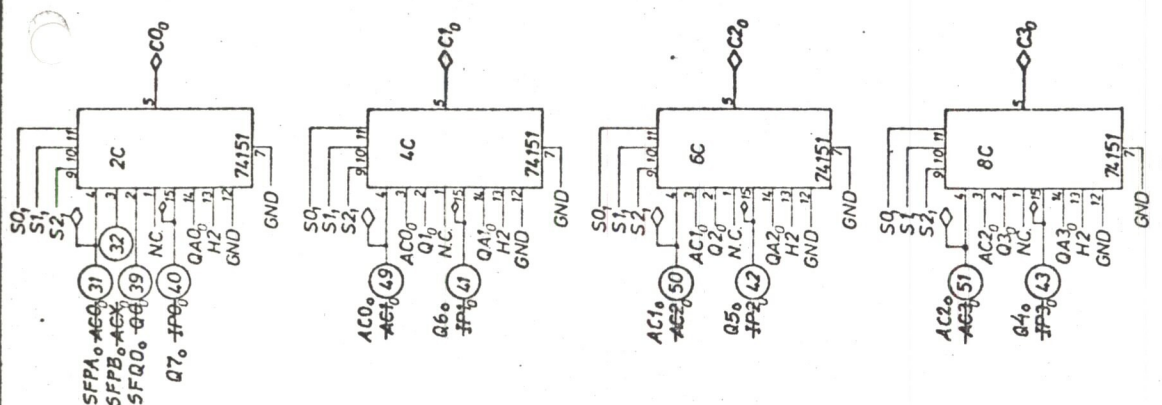
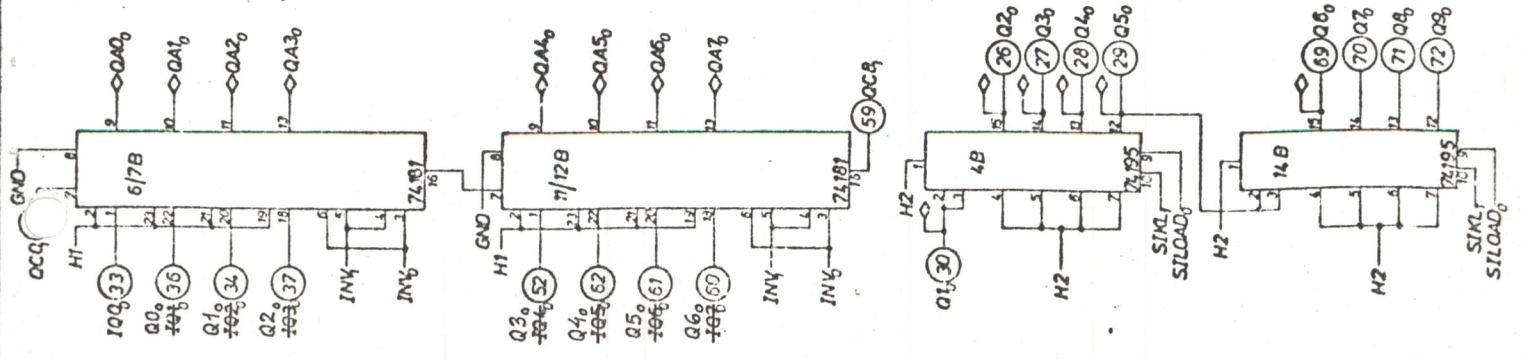
DATA FLOW



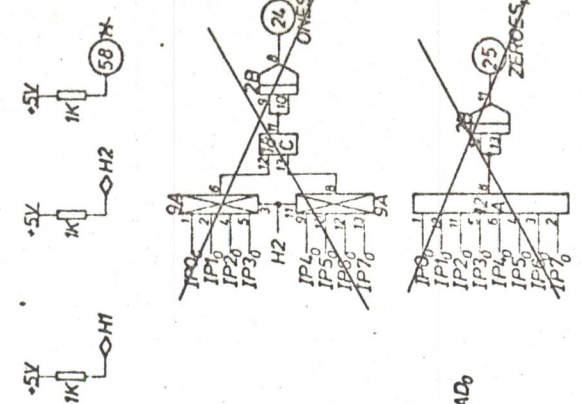


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Alouført	28.10.74	B.S./BBO
Pk pos. og term.nr. påført.	17.10.74	B.S./BBO
Partnr.	1521A	
Pos.	A01	
Div.	1A39	
Proj.	1A39	

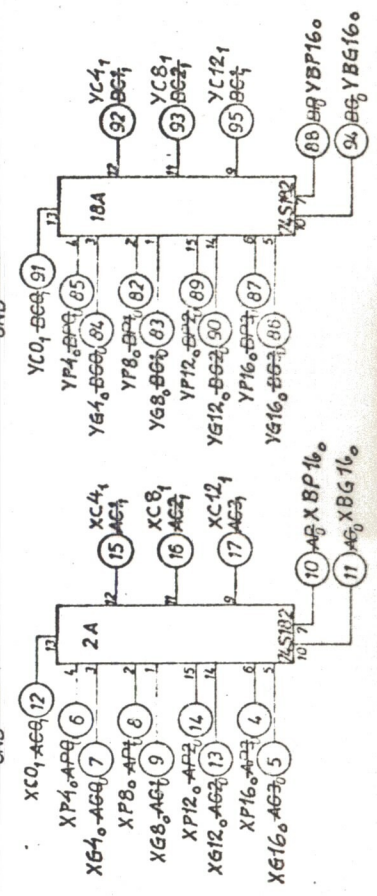
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Alouført	28.10.74	B.S./BBO
Pk pos. og term.nr. påført.	17.10.74	B.S./BBO
Partnr.	1521A	
Pos.	A01	
Div.	1A39	
Proj.	1A39	



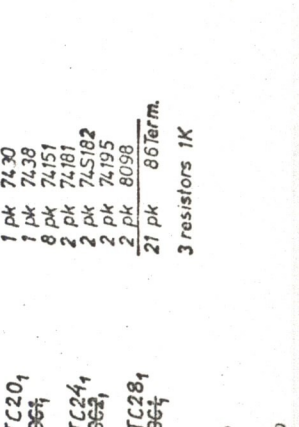
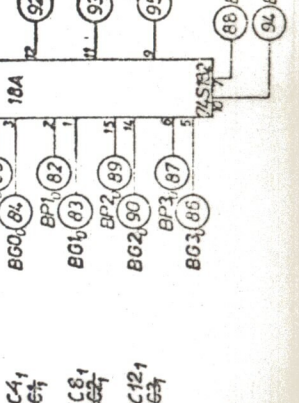
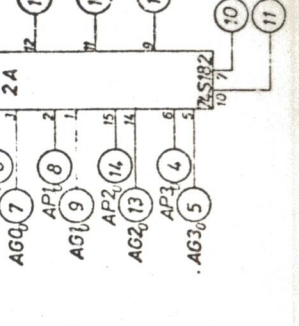
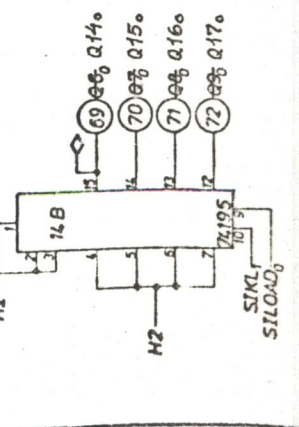
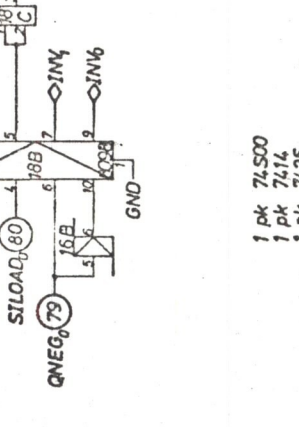
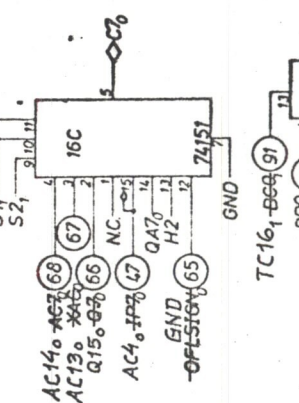
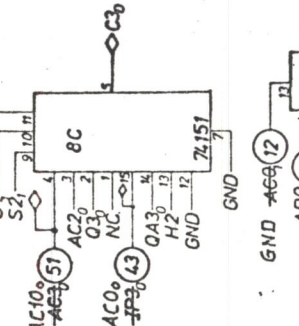
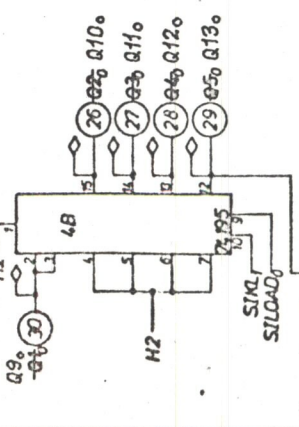
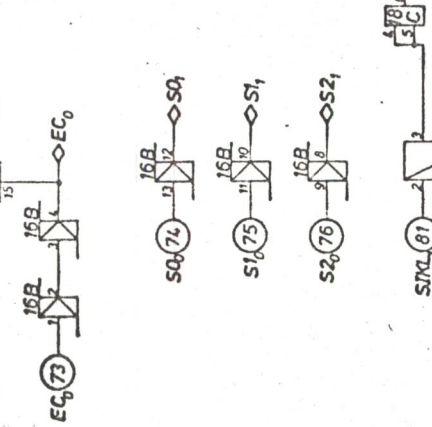
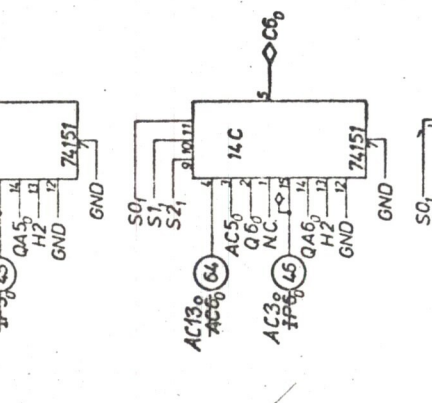
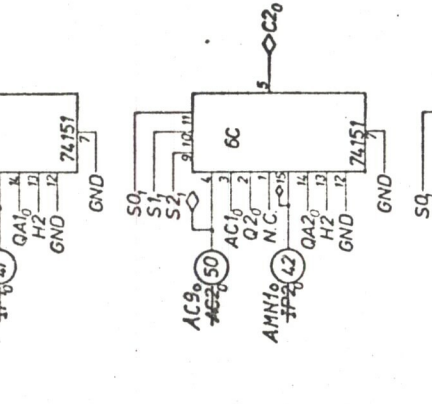
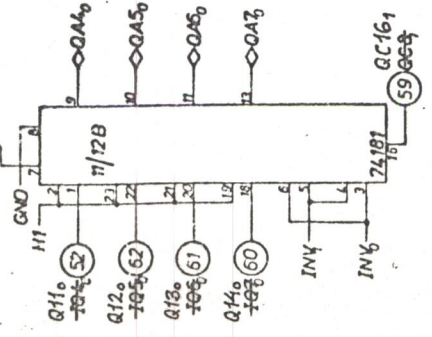
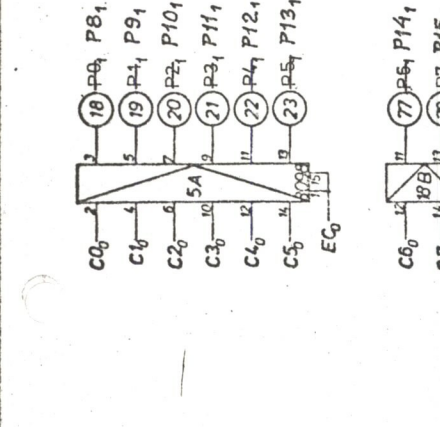
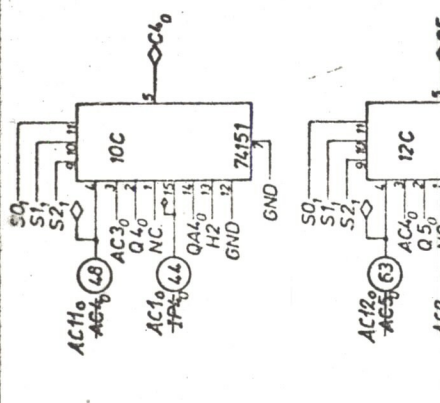
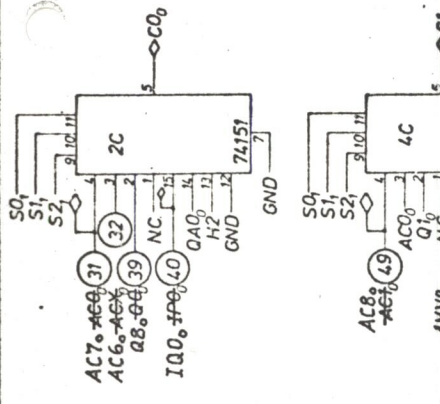
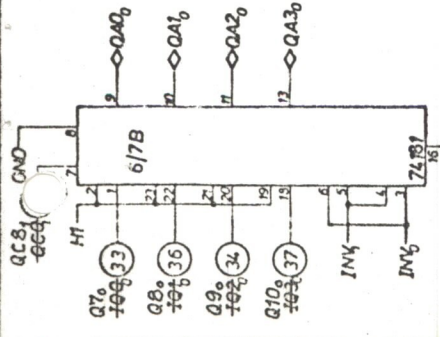
S2	S1	S0	RESULT SELECTED
0	0	0	Floating product
0	0	1	Normalise floating product
0	1	0	Floating quotient
0	1	1	Not used
1	0	0	Integer product
1	0	1	Integer remainder and quotient
1	1	0	Zero
1	1	1	Floating overflow (max.)



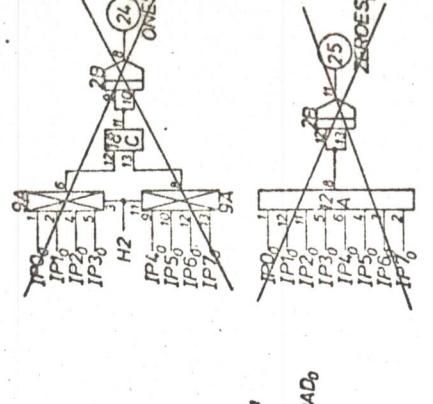
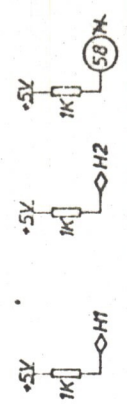
- 1 pk 74S00
- 1 pk 7414
- 1 pk 7425
- 1 pk 7430
- 1 pk 7438
- 8 pk 74151
- 8 pk 74151
- 2 pk 74S182
- 2 pk 74195
- 2 pk 8098
- 21 pk 80Term.
- 3 resistors 1K



Alourført	3 4.75	BS / BBO
Pk pos. og term. nr. påført	18974	TU / BBO
Rettet	1522A	Sign.
OUTPUT SELECTOR	1522A	Pos.
		Kontr. BS
		Appl.
		1A10

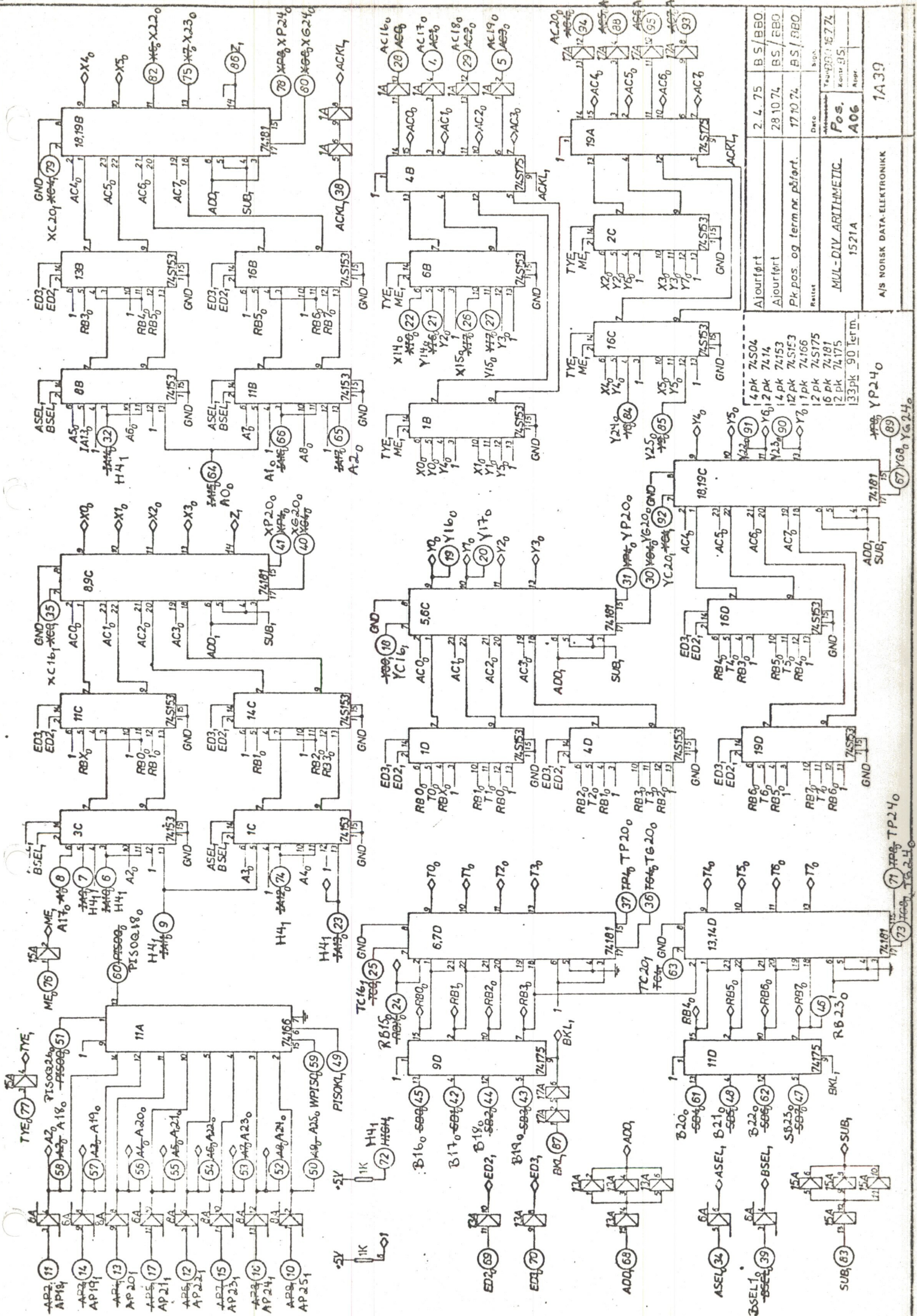


S2	S1	S0	RESULT SELECTED
0	0	0	Floating product
0	0	1	Normalize floating product
0	1	0	Floating quotient
0	1	1	Not used
1	0	0	Integer product
1	0	1	Integer remainder and quotient
1	1	0	Zero
1	1	1	Floating overflow (max.)



Alourført	3 4.75	BS/BBO
P.k. pos. og term. nr. påført	18974	TU/BBO
Restert	1522A	Sign.
OUTPUT SELECTOR	1522A	Pos.
		Top BBO23274
		Keatv. 95
		Aspr.
		1A40

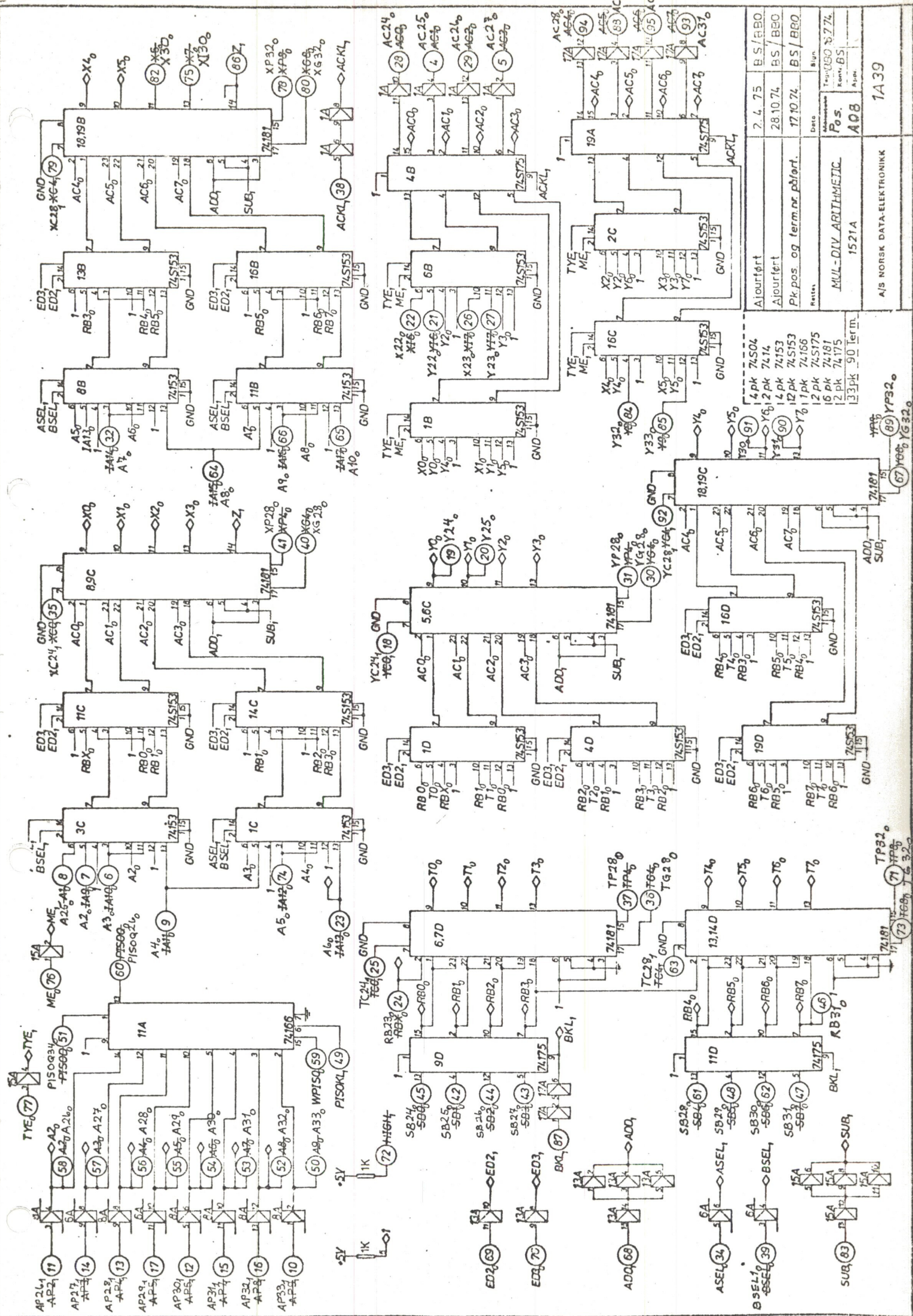
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- 1 pk 7414
- 1 pk 7425
- 1 pk 7430
- 1 pk 7438
- 8 pk 74151
- 2 pk 74181
- 2 pk 745182
- 2 pk 74195
- 2 pk 8098
- 21 pk 86Term.
- 3 resistors 1K



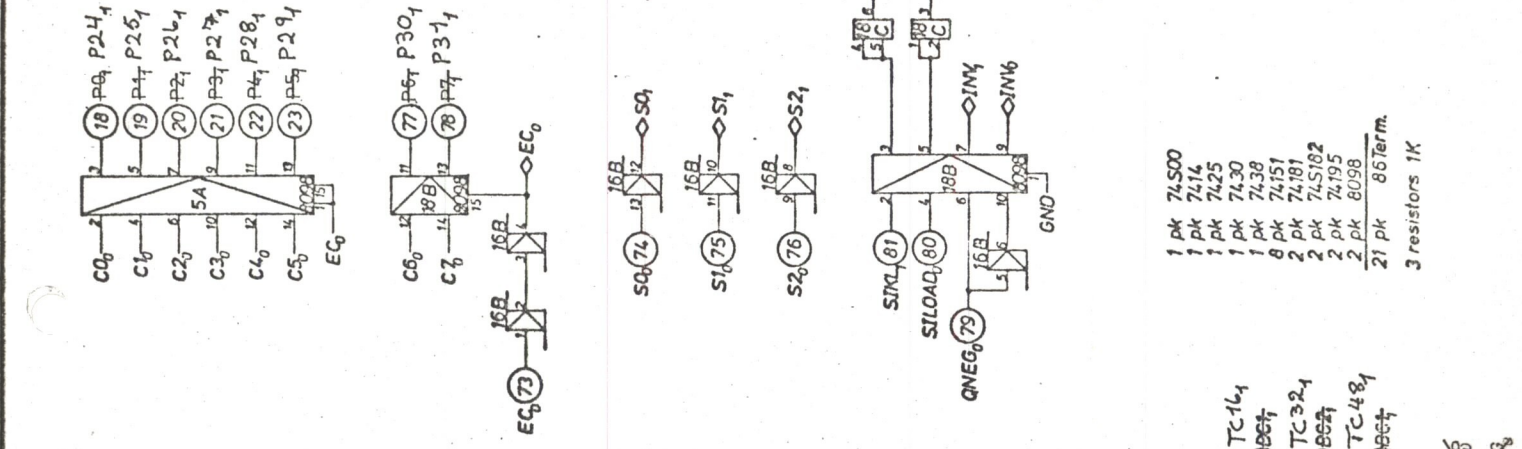
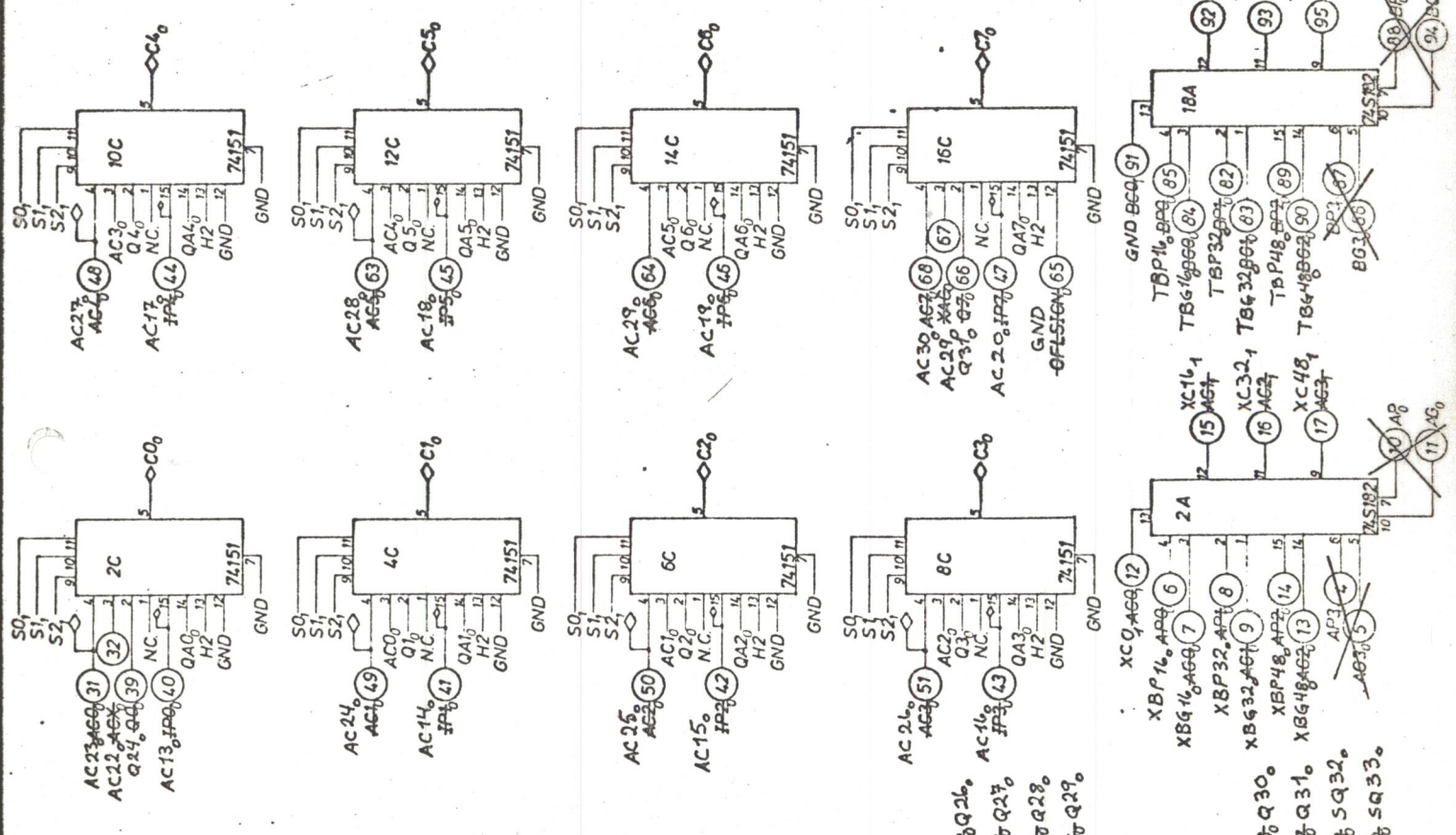
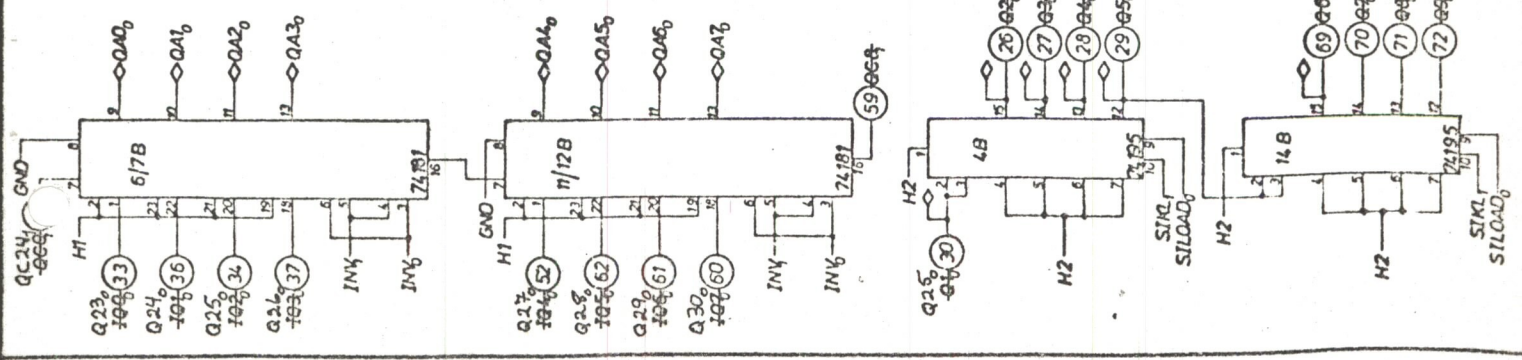
Ajourført	2. 4. 75	BS / BBO
Ajourført	28 10 74	BS / BBO
Pk pos. og term nr påført.	17 10 74	BS / BBO
Rettest	Dato	Sign.
MUL-DIV ARITHMETIC	Arbeidsnr	Tau 280 14 774
1521A	Pos.	Kontor BS
	A06	Altop
A/S NORSK DATA-ELEKTRONIKK		1A39

The schematic diagram illustrates the internal structure of the 74S153 4-bit binary counter. It features two 4-bit D-type flip-flops, labeled 90 and 89. The output of flip-flop 90 is connected to the clock input of flip-flop 89. The outputs of the flip-flops are connected to the inputs of two 4-bit AND gates, AC6 and AC7. The outputs of these AND gates are connected to the inputs of a 4-bit OR gate, labeled 74S153. The OR gate has four outputs, labeled Y0, Y1, Y2, and Y3. The diagram also shows the connection of the 74S153 to the 74S154 4-bit binary counter, which has four outputs labeled Y0, Y1, Y2, and Y3. The 74S154 is connected to the 74S153 via a 4-bit bus. The 74S154 has a clock input (CLK) and a master reset input (MR). The 74S153 has a clock input (CLK) and a master reset input (MR). The 74S154 has a clock input (CLK) and a master reset input (MR). The 74S153 has a clock input (CLK) and a master reset input (MR). The 74S154 has a clock input (CLK) and a master reset input (MR).

71 TP24 TP240



2. 4. 75	B.S./BBO	Tens: BBO 87.7% Exch. BS Appl.
28.10.74	BS/BBO	
17.10.74	BS/BBO	
Ajourført Ajourført Pk.pos. og term.nr. påført.	Date Address Pos. AOB	1521A MIL-DIV ARITHMETIC 1A39
Rettes		A/S NORSK DATA-ELEKTRONIKK

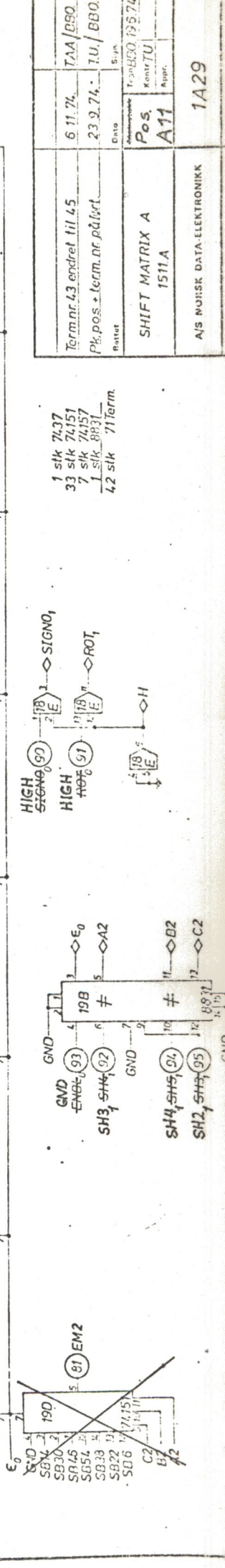
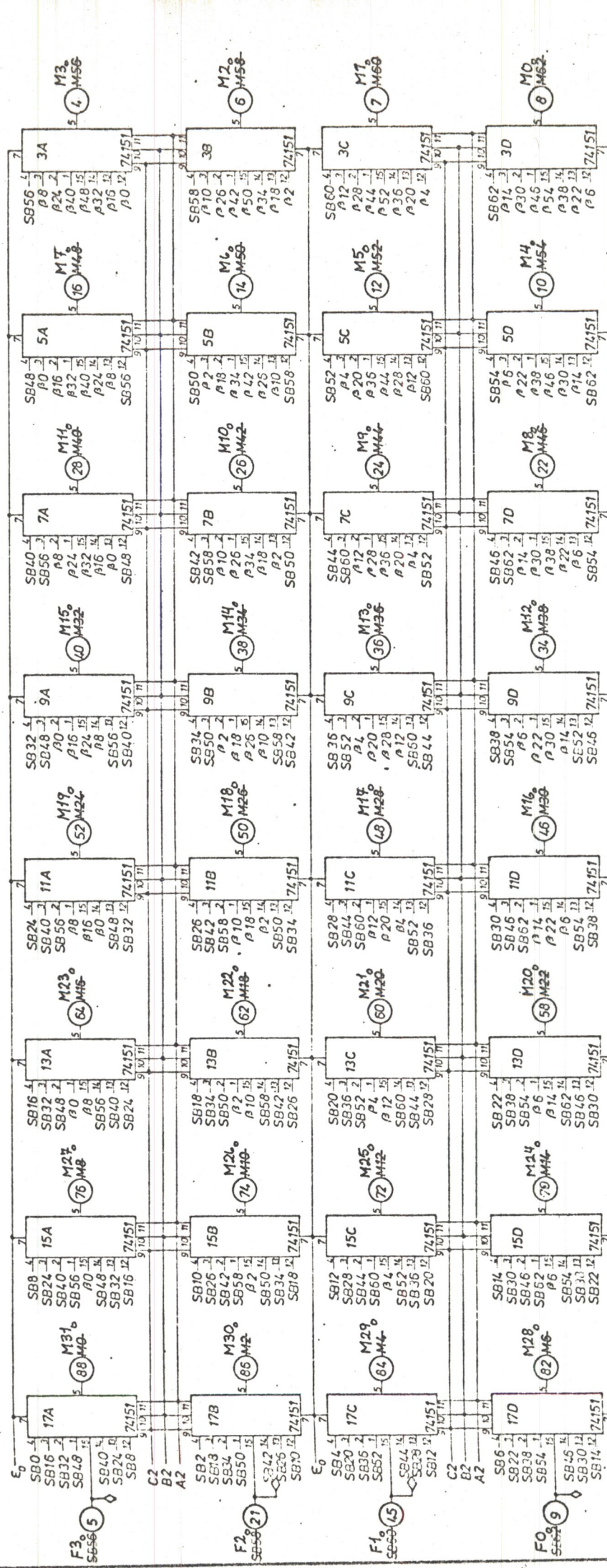
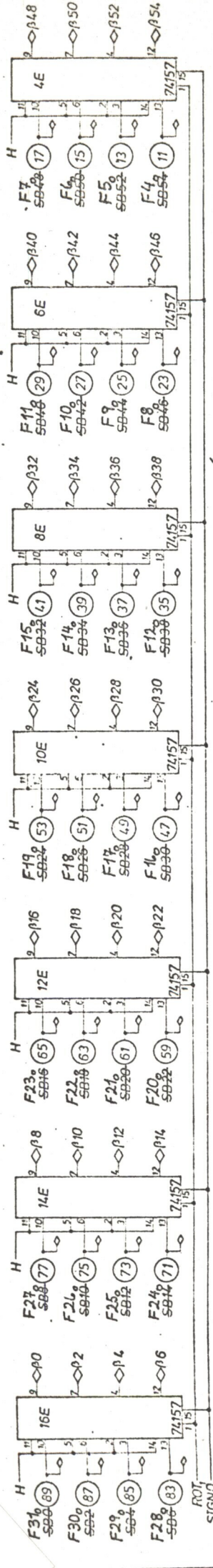


S2	S1	S0	RESULT SELECTED
0	0	0	Floating product
0	0	1	Normalise floating product
0	1	0	Floating quotient
0	1	1	Not used
1	0	0	Integer product
1	0	1	Integer remainder and quotient
1	1	0	Zero
1	1	1	Floating overflow (max.)

Algoritmet	P.k. pos. og term. nr. påfølg.	Resultat	Output Selector	1522A
3 4. 75	18974	BS/BBO	BS/BBO	1A40

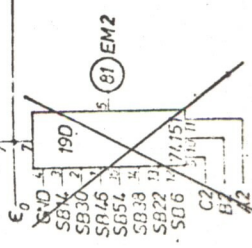
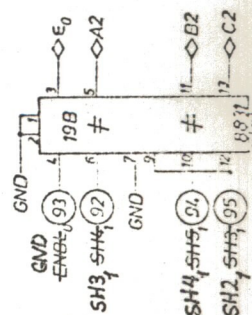
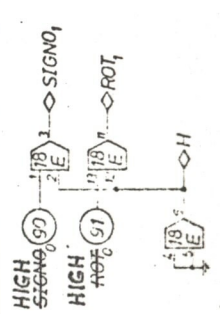
Algoritmet	P.k. pos. og term. nr. påfølg.	Resultat	Output Selector	1522A
3 4. 75	18974	BS/BBO	BS/BBO	1A40

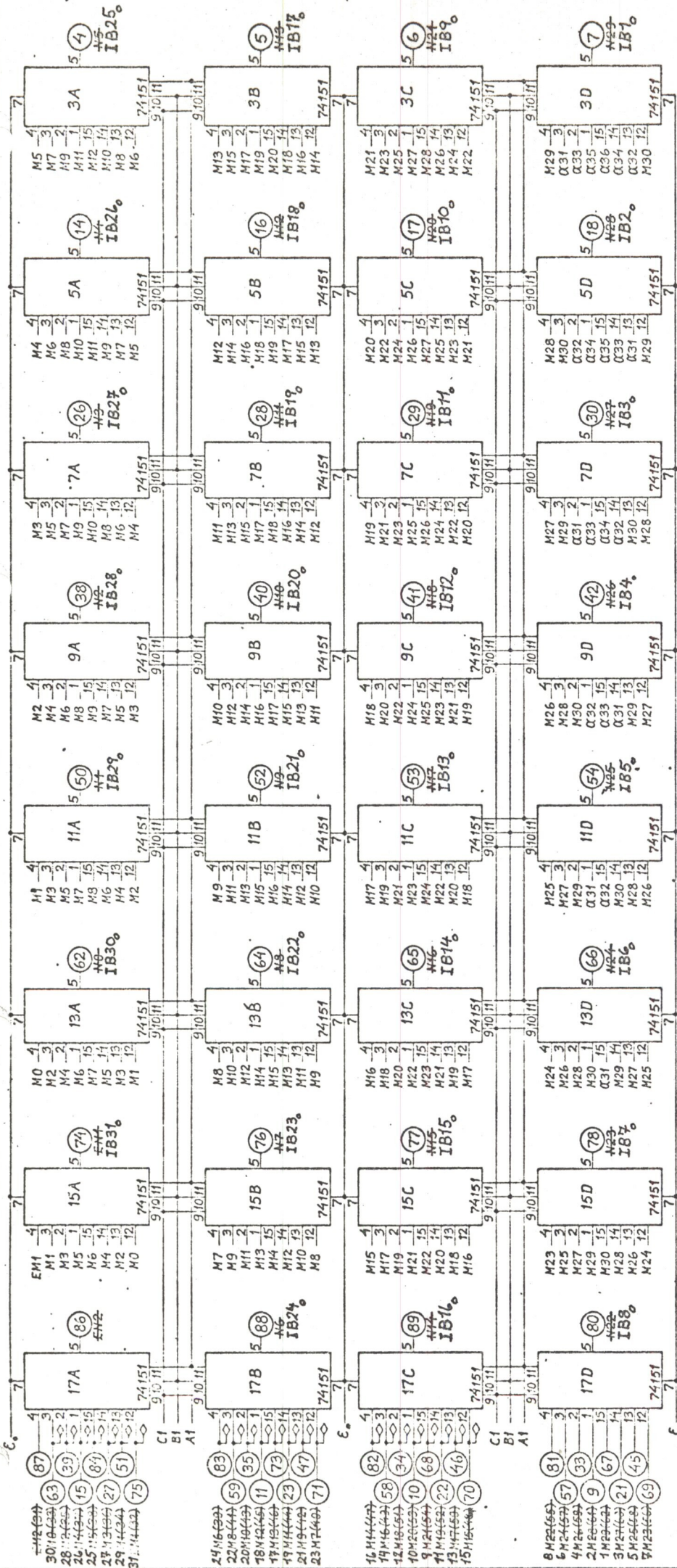
Algoritmet	P.k. pos. og term. nr. påfølg.	Resultat	Output Selector	1522A
3 4. 75	18974	BS/BBO	BS/BBO	1A40



Term nr. 43 endret til 45	6 11 74	TAA / B90
Pk pos. + term. nr påført	23 9 74	TU / B80
Pos.	A11	Appr.
SHIFT MATRIX A		
1511A		
AJS NOJSK DATA-ELEKTRONIKK		1A29

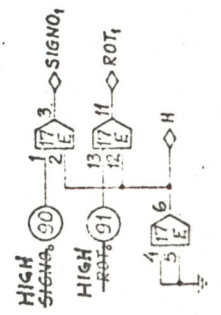
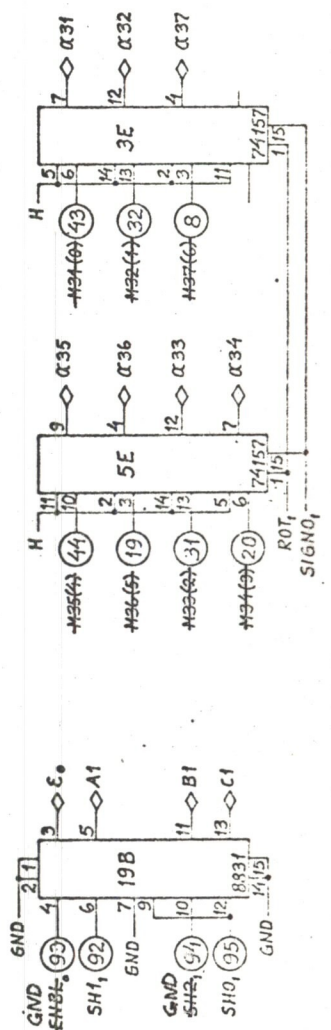
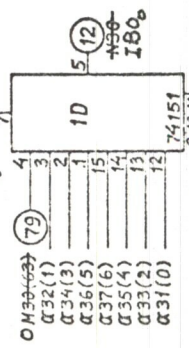
1 sik 74.37
33 sik 74.151
7 sik 74.157
1 sik 88.31
42 sik 71Term.

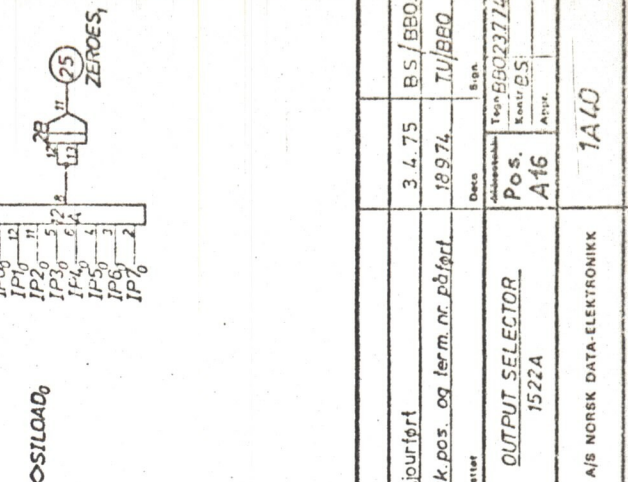
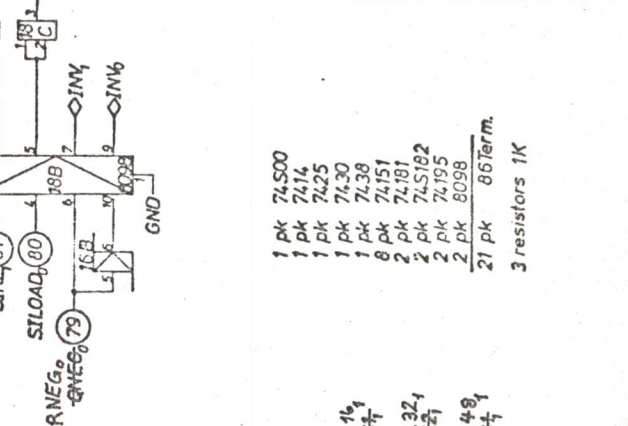
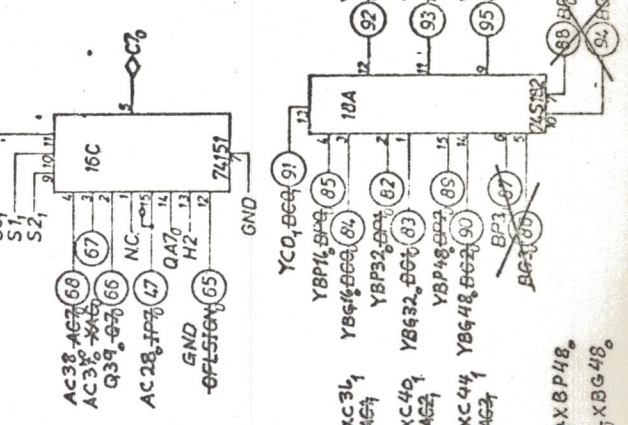
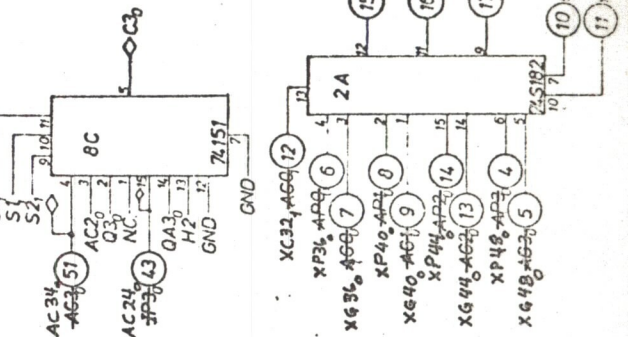
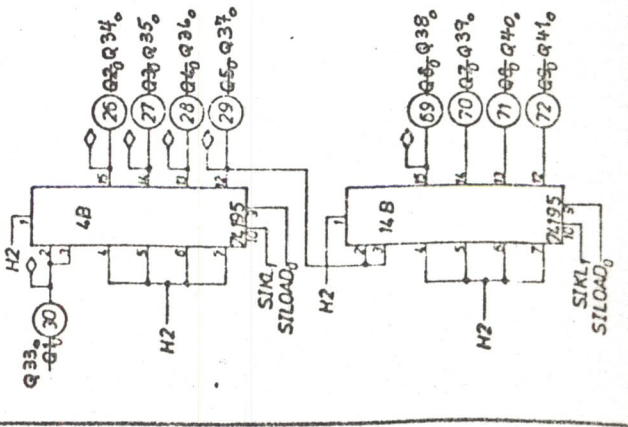
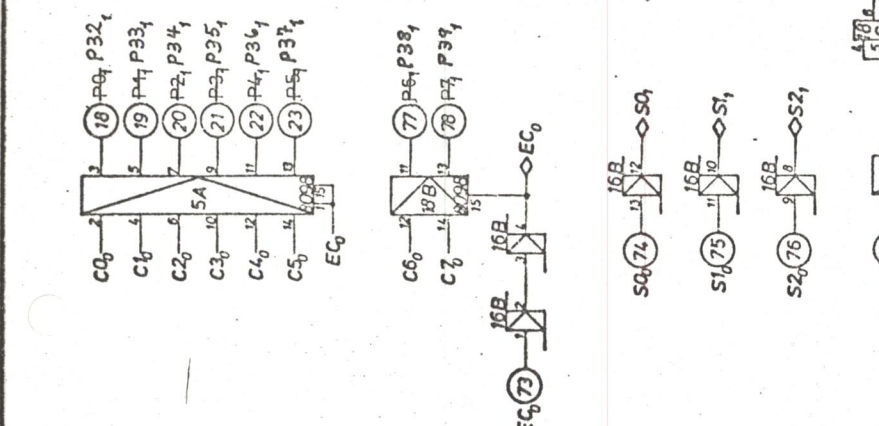
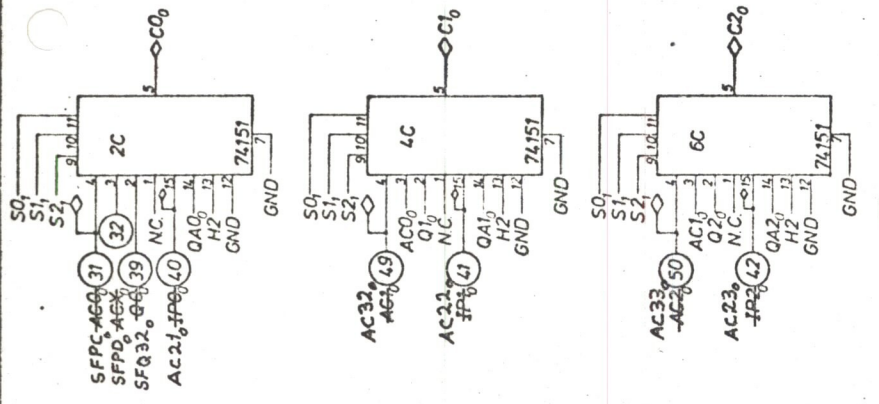
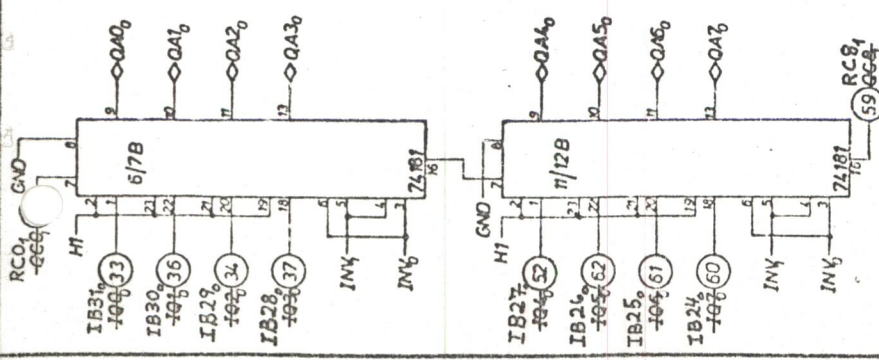




1 pk 7437
 33 - 74151
 2 - 74157
 1 - 8831
 37 pk.

79 term.

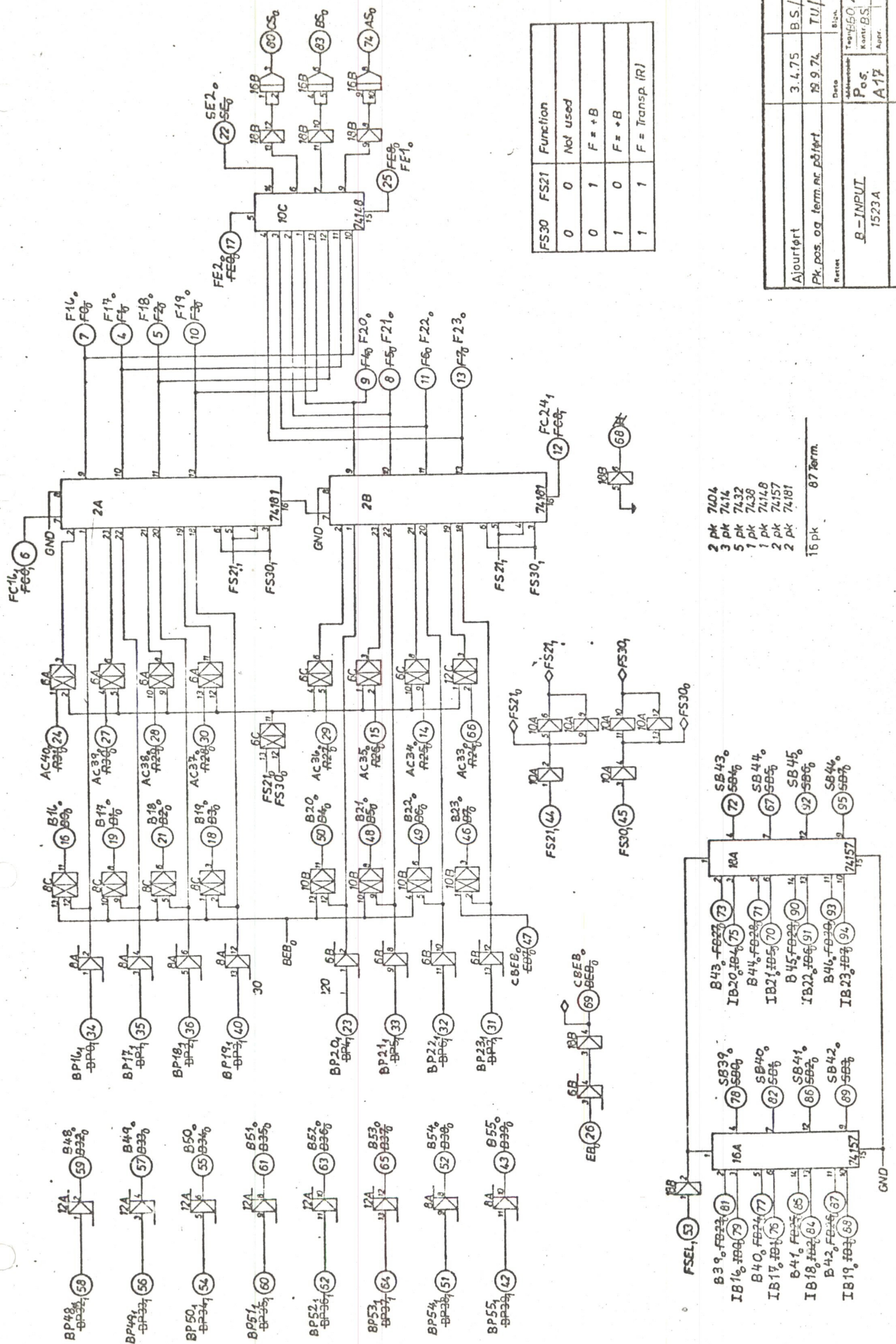




S2	S1	S0	RESULT SELECTED
0	0	0	Floating product
0	0	1	Normalize floating product
0	1	0	Floating quotient
0	1	1	Not used
1	0	0	Integer product
1	0	1	Integer remainder and quotient
1	1	0	Zero
1	1	1	Floating overflow (max.)

Apourført	3 4 75	BS / BBO.
Pk.pos. og term.nr. påført	18974	Tu/BBO
Restnr	1522A	Sign
OUTPUT SELECTOR	A16	Pos.
		Temp
		Contr
		Apur.
		1A10

- 1 pk 74500
- 1 pk 7414
- 1 pk 7425
- 1 pk 7430
- 1 pk 7438
- 8 pk 74151
- 2 pk 74182
- 2 pk 74195
- 2 pk 8098
- 21 pk 86Ter m.
- 3 resistors 1K

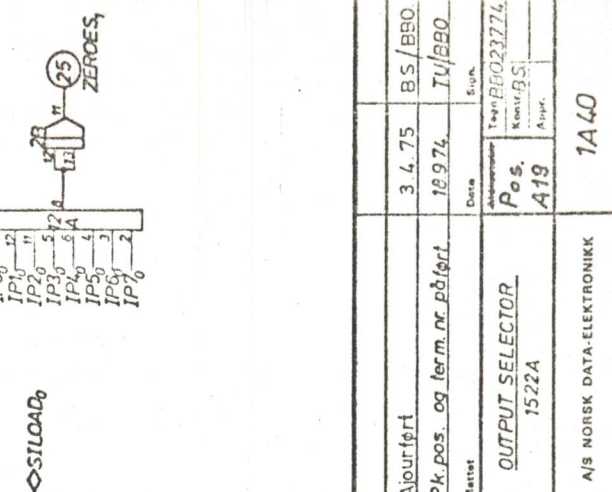
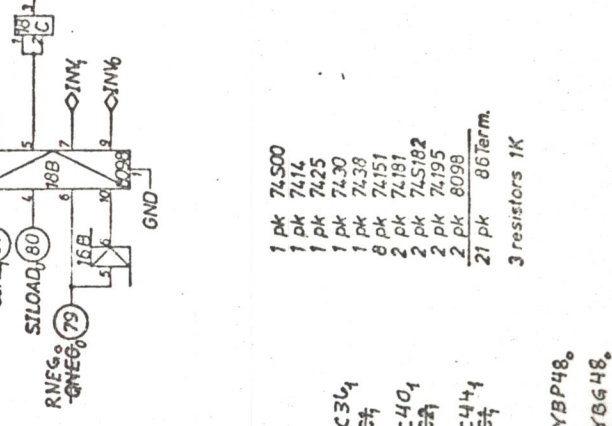
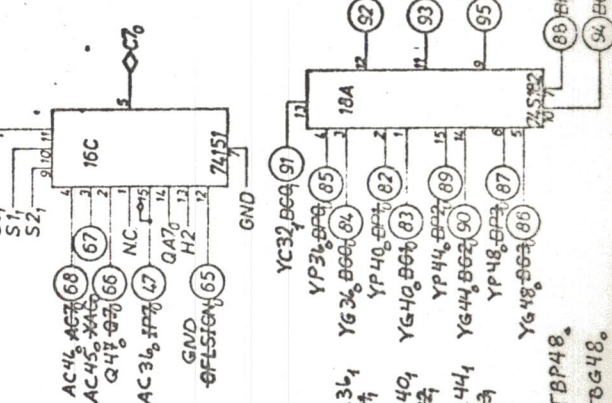
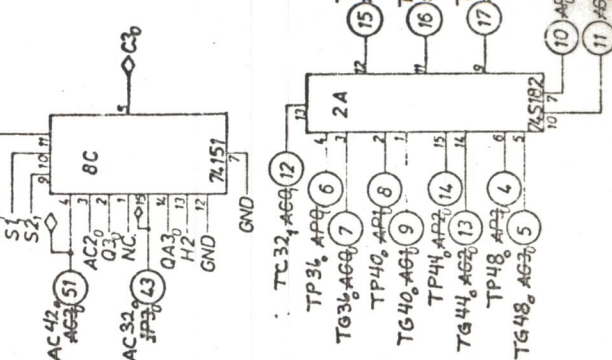
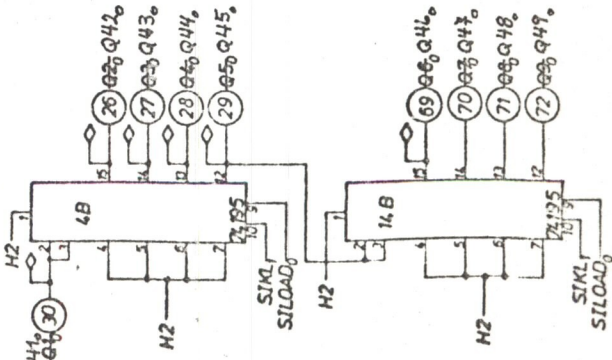


FS30	FS21	Function
0	0	Not used
0	1	F = + B
1	0	F = + B
1	1	F = Transp. (R)

2 pk 7404
3 pk 7414
5 pk 7432
1 pk 7438
1 pk 74148
2 pk 74157
2 pk 74181
16 pk 87 term.

Ajourført	3.4.75	B.S./BBC
Pk. pos. og term. nr. påført	19.9.74	TU/BBO
Rettet		
Adressekode	1523A	B-S
Pos.	A17	Appt.
Dato		
Sign.		
1A41		

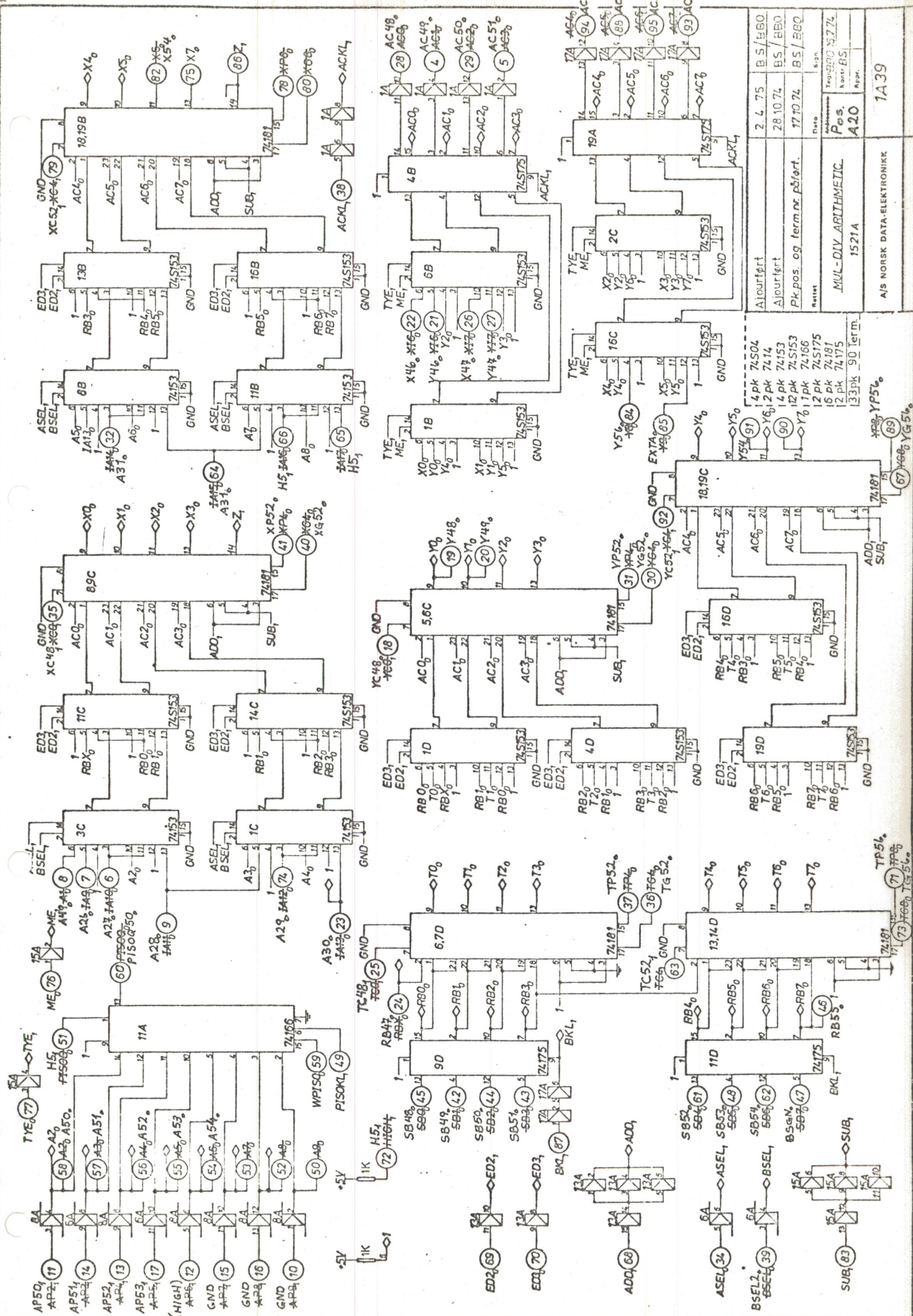
A/S NORSK DATA-ELEKTRONIKK



1 pk 74500
1 pk 7414
1 pk 7425
1 pk 7430
1 pk 7438
8 pk 74151
2 pk 74191
2 pk 74LS182
2 pk 74195
2 pk 8098

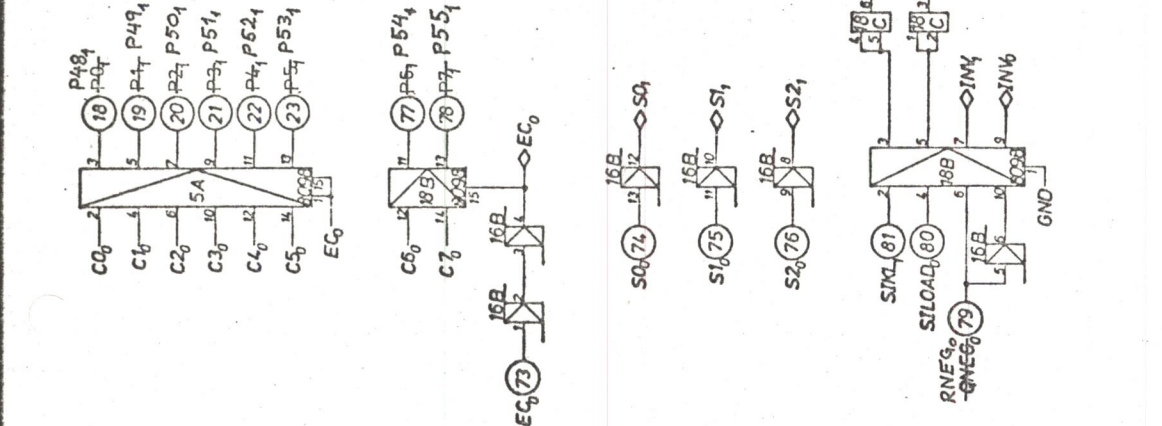
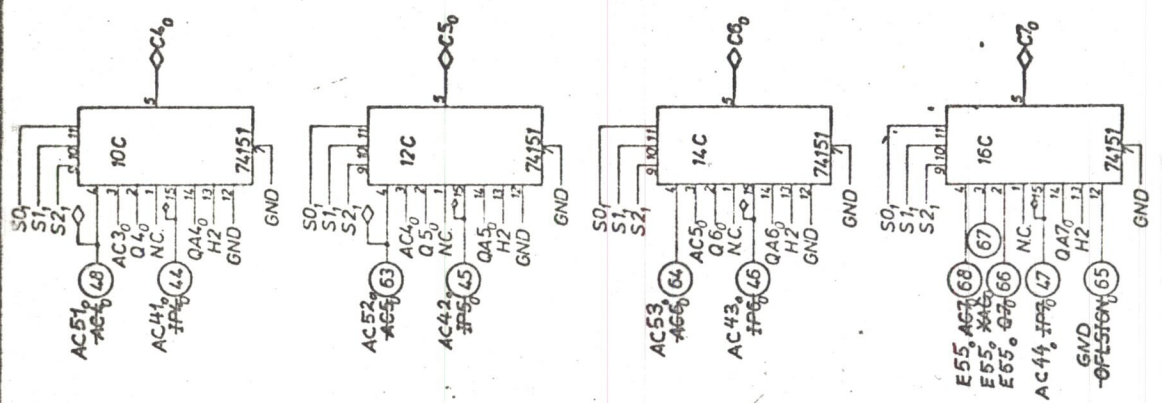
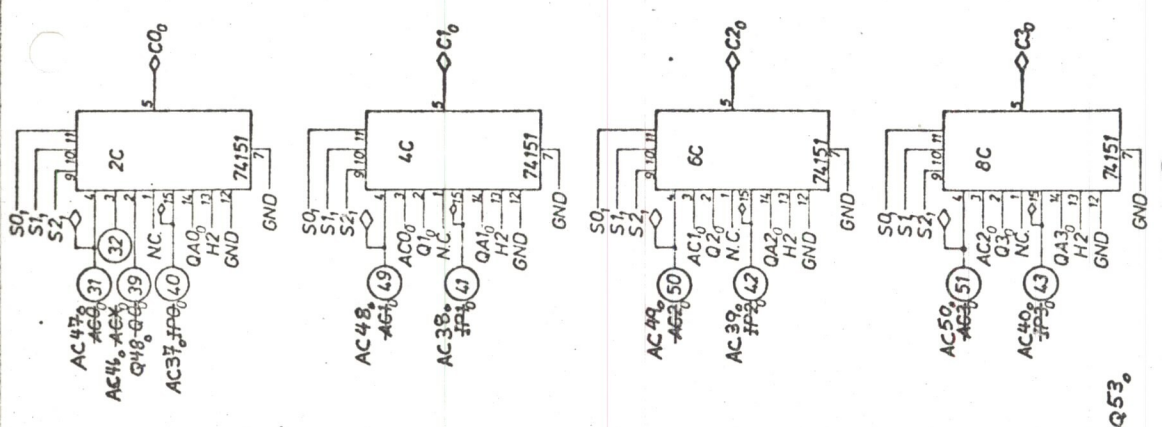
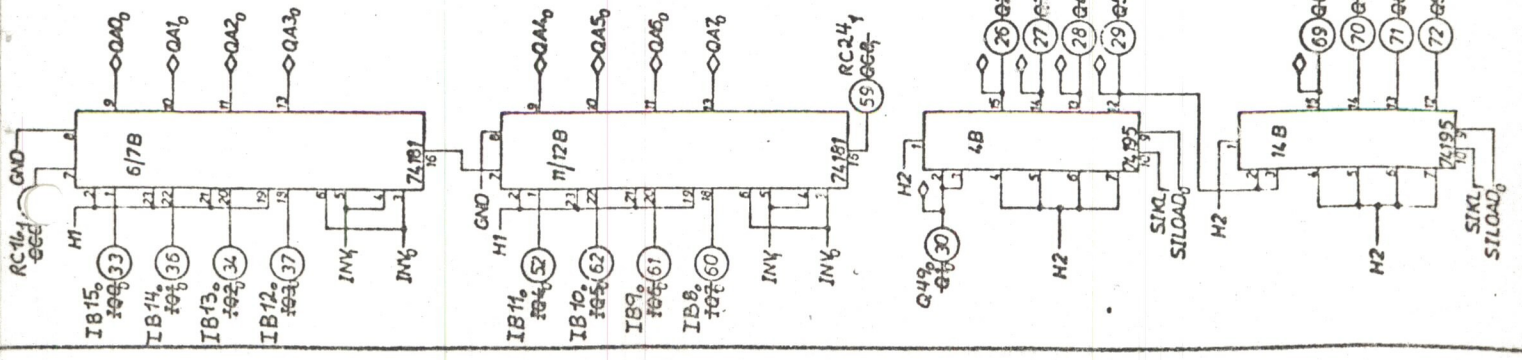
21 pk 86Term.
3 resistors 1K

[illegible]

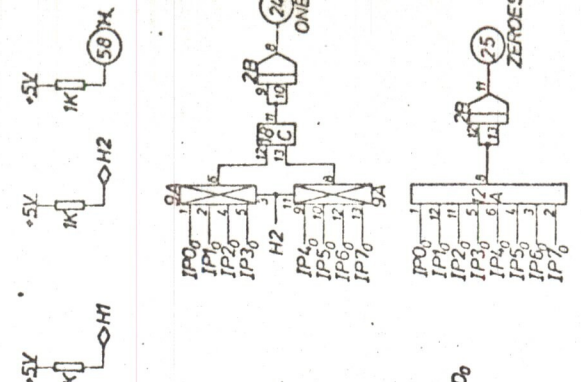


Alourført	2, 4, 7, 5	B S / BBO
Alourført	28, 10, 7, 4	B S / BBO
Pk pos. og term. n. påført.	17, 10, 7, 4	B S / BBO
Reliast	1521 A	Reliast
MUL-DIV ARITHMETIC		
Pos.		
1521 A		
1A39		

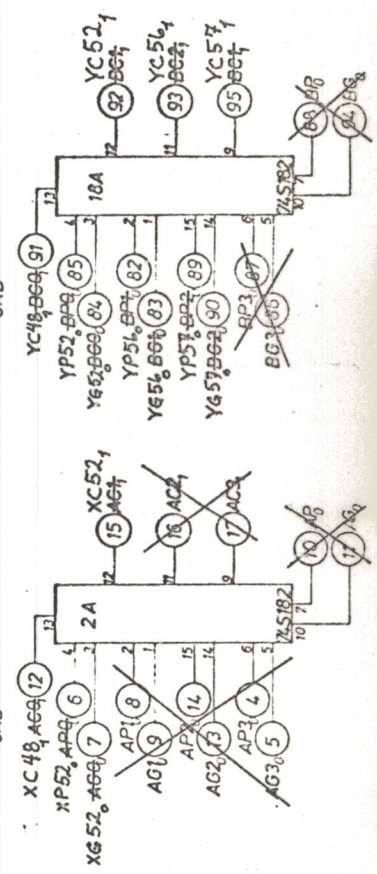
Alourført	2, 4, 7, 5	B S / BBO
Alourført	28, 10, 7, 4	B S / BBO
Pk pos. og term. n. påført.	17, 10, 7, 4	B S / BBO
Reliast	1521 A	Reliast
MUL-DIV ARITHMETIC		
Pos.		
1521 A		
1A39		



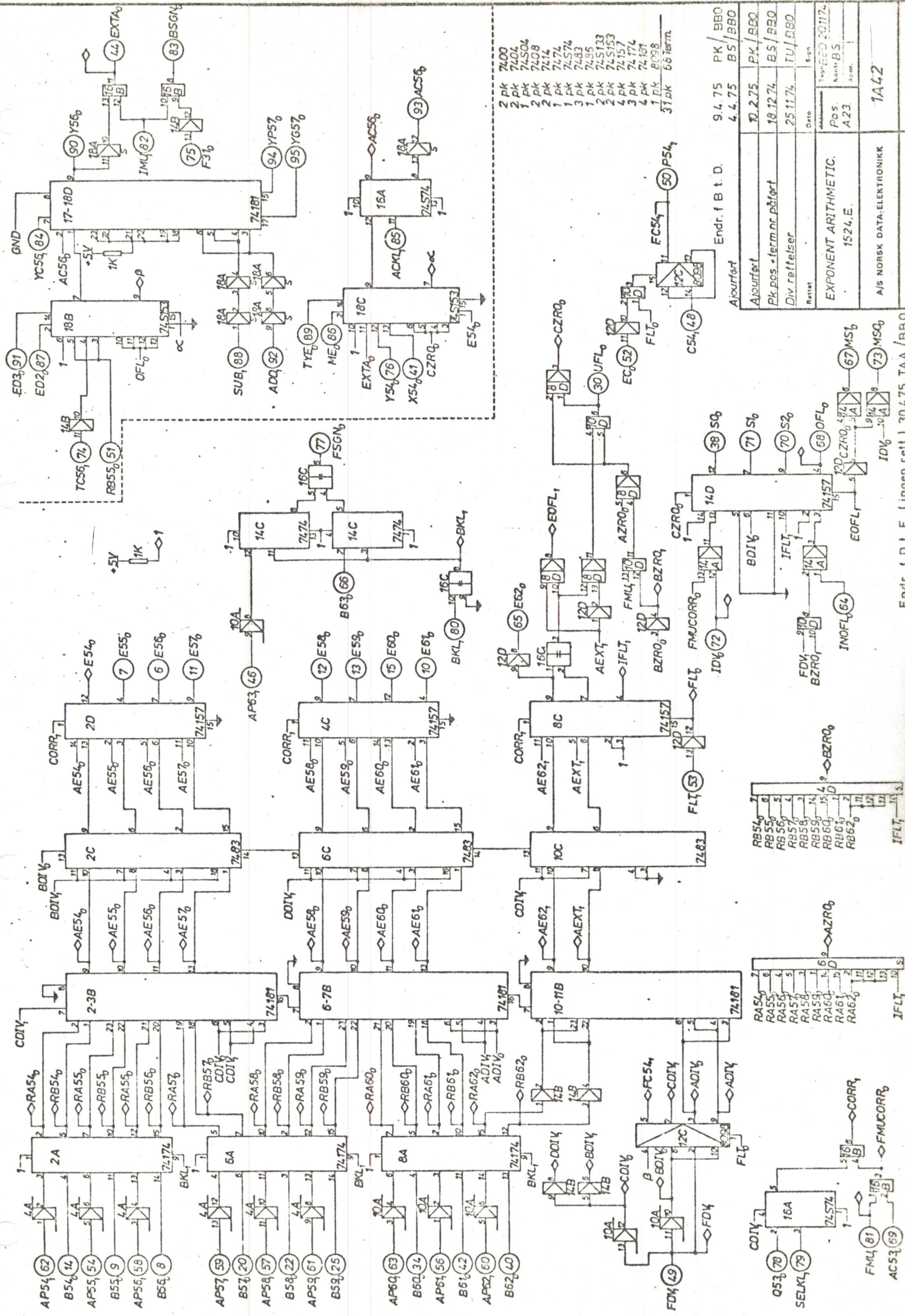
S2	S1	S0	RESULT SELECTED
0	0	0	Floating product
0	0	1	Normalise floating product
0	1	0	Floating quotient
0	1	1	Not used
1	0	0	Integer product
1	0	1	Integer remainder and quotient
1	1	0	Zero
1	1	1	Floating overflow (max.)



- 1 pk 74S00
- 1 pk 7414
- 1 pk 7425
- 1 pk 7430
- 8 pk 74151
- 2 pk 74181
- 2 pk 74S182
- 2 pk 7495
- 2 pk 8098
- 21 pk 86Term.
- 3 resistors 1K



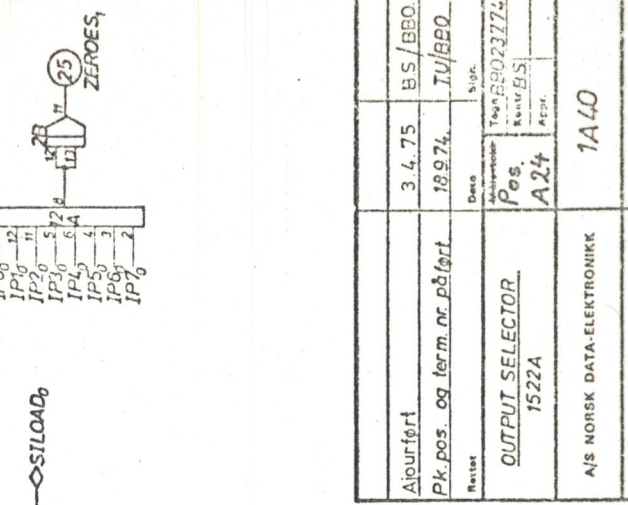
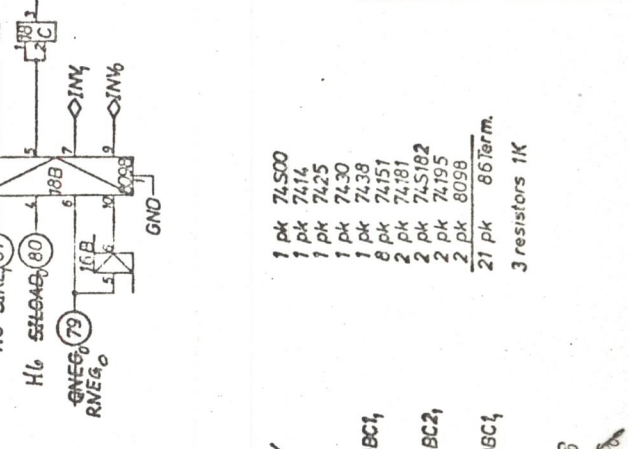
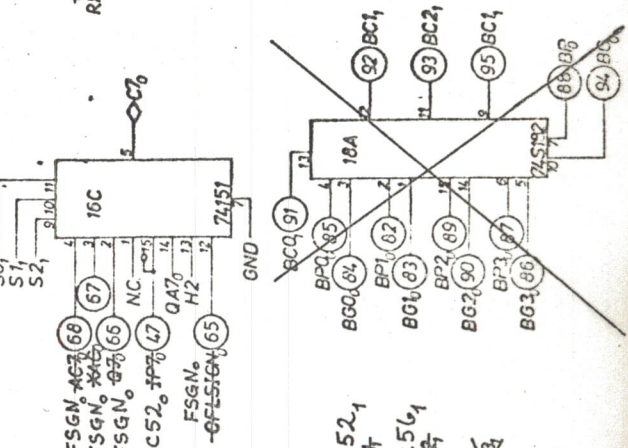
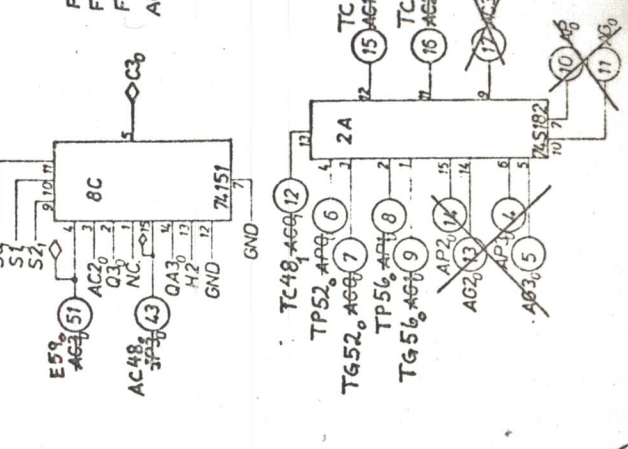
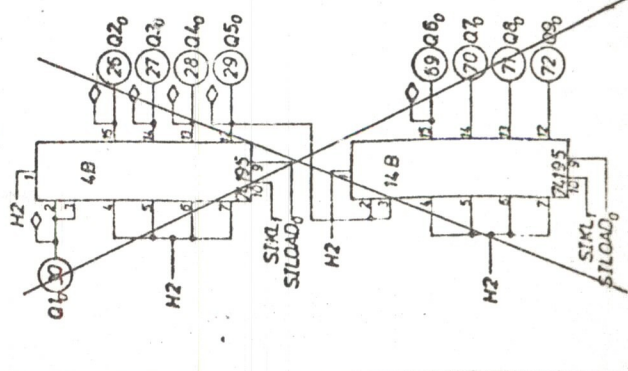
Ajourført		3.4.75		BS/BBO	
Pk. pos. og term. nr. påført		18.9.74		TU/BBQ	
Billet		Date		Sign.	
1522A		P. os.		Tegn. BBO23774	
OUTPUT SELECTOR		A21		Kont. BS	
A/S NORSK DATA-ELEKTRONIK		1A40		Appl.	



- 2 pk 7400
- 2 pk 7404
- 1 pk 7404
- 2 pk 7408
- 2 pk 7414
- 1 pk 7414
- 1 pk 7417
- 3 pk 7483
- 1 pk 7485
- 2 pk 74133
- 2 pk 74153
- 4 pk 74157
- 3 pk 74171
- 4 pk 74181
- 1 pk 8098
- 31 pk 66 term.

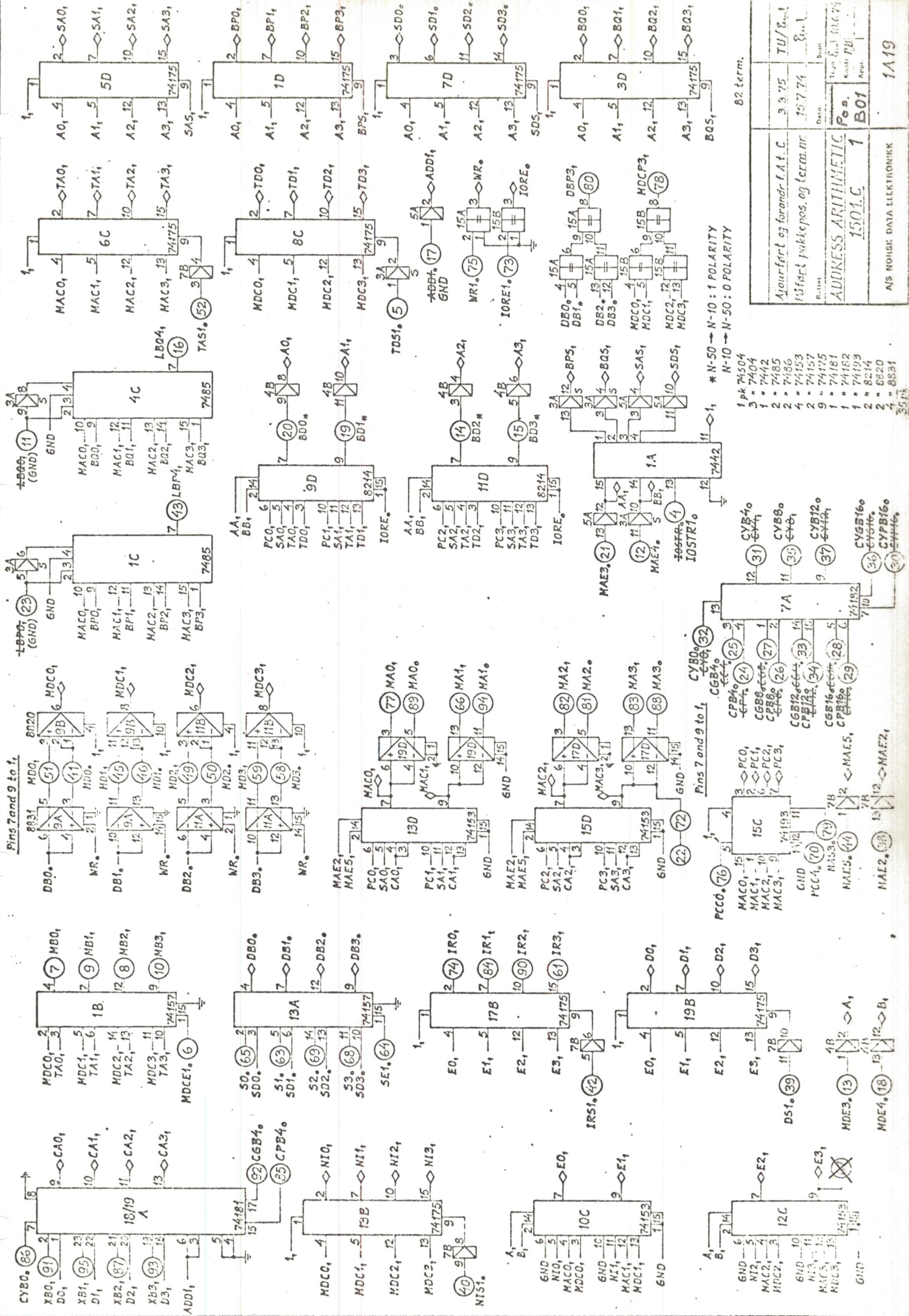
Endr. f. B. t. D.	9.4.75	PK / BBO	880
Abgjort	4.4.75	BS / BBO	
Abgjort	10.2.75	PK / BBO	
Pk pos. + term nr. påført	18.12.74	BS / BBO	
Div rettelser	25.11.74	TU / BBO	
Dato		En	
Rettet		Pos	
Exponent ARITHMETIC.		Pos	
1524.E.		A23	
AJS NORSK DATA-ELEKTRONIKK			
1A42			

Endr. f. D. t. E. (ingen rett) 30.4.75. TAA / BBO



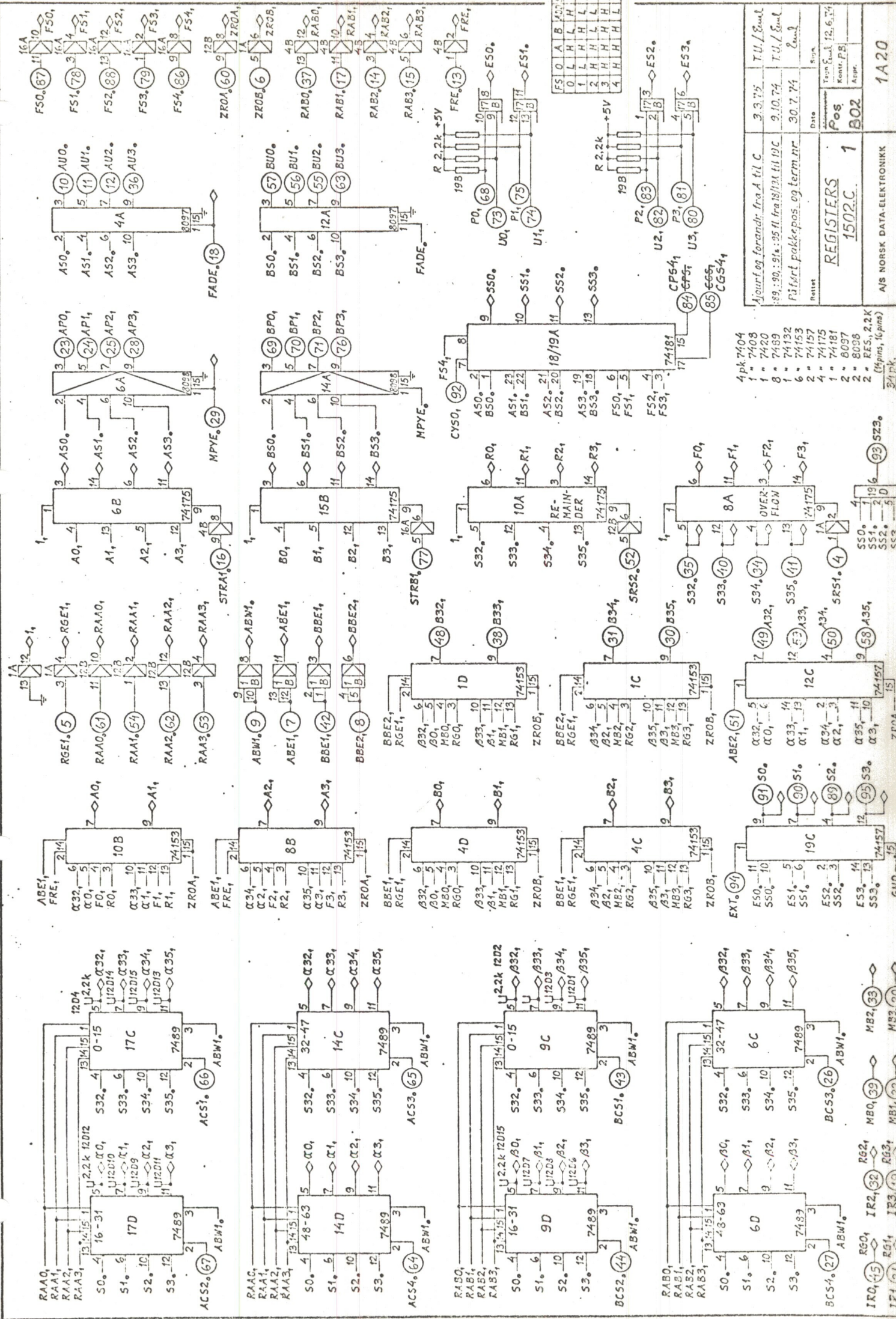
Ajourført	3 4. 75	BS / BBO
Pk. pos. og term. nr. påført	18974	IV / BEO
Reiset	Dato	S. nr.
OUTPUT SELECTOR 1522A	Pos.	Team BBO23172
	A24	Rev. BS
		Appl.
		1A40

Pins 7 and 9 to 1.



82 term.

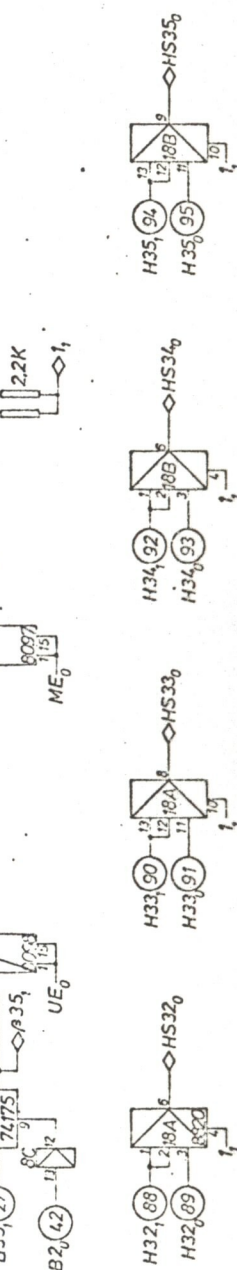
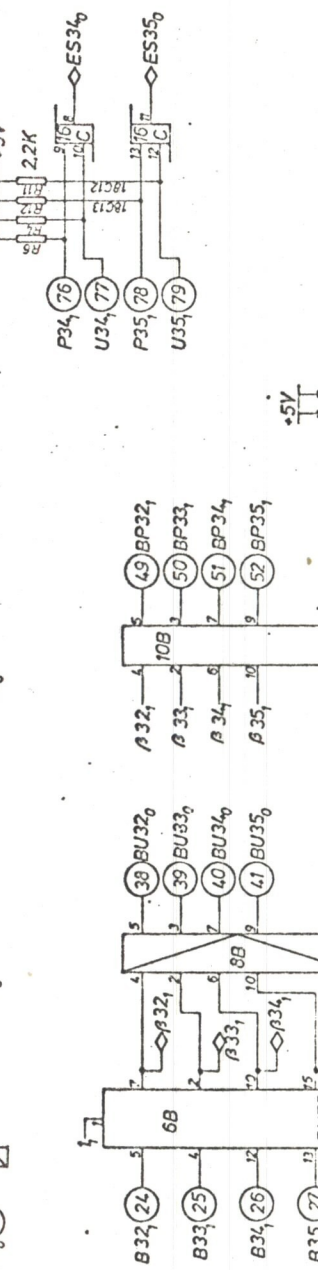
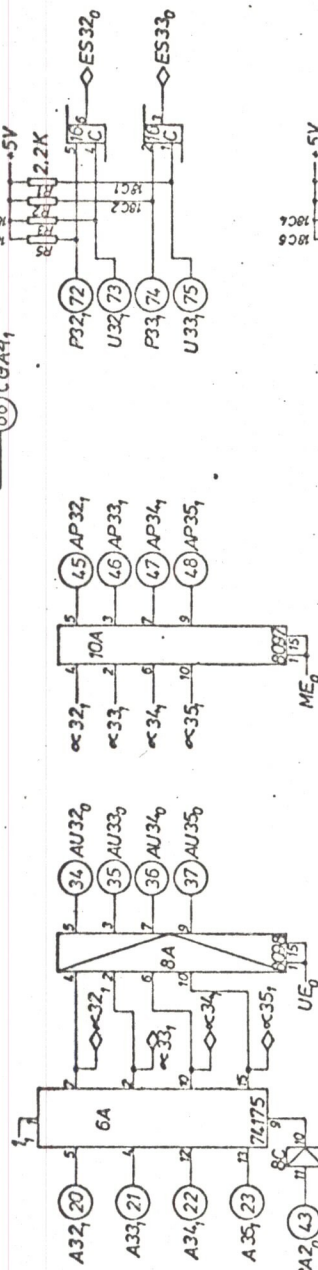
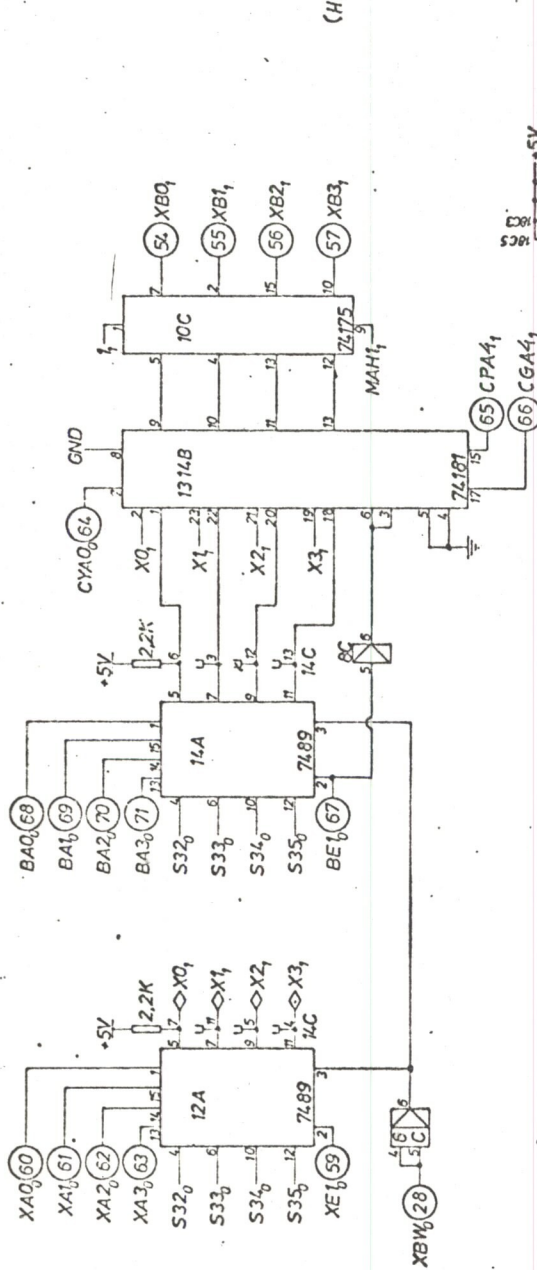
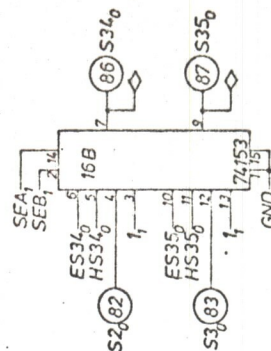
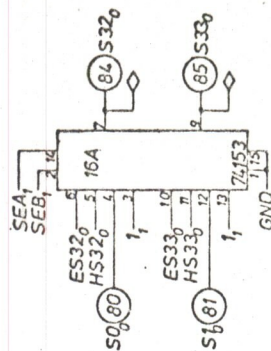
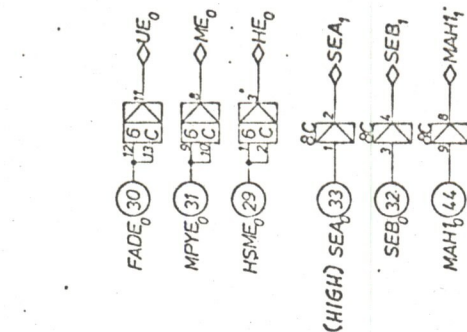
Ajourført af forordr. f. A. C.		TU/8...	
Føført pakkes, og term. nr.		3 3 75	15 7 74
ADDRESS ARITHMETIC		1501.C	
1501.C		1 B01	
A/S NOISE DATA ELEKTRONIK		1A19	



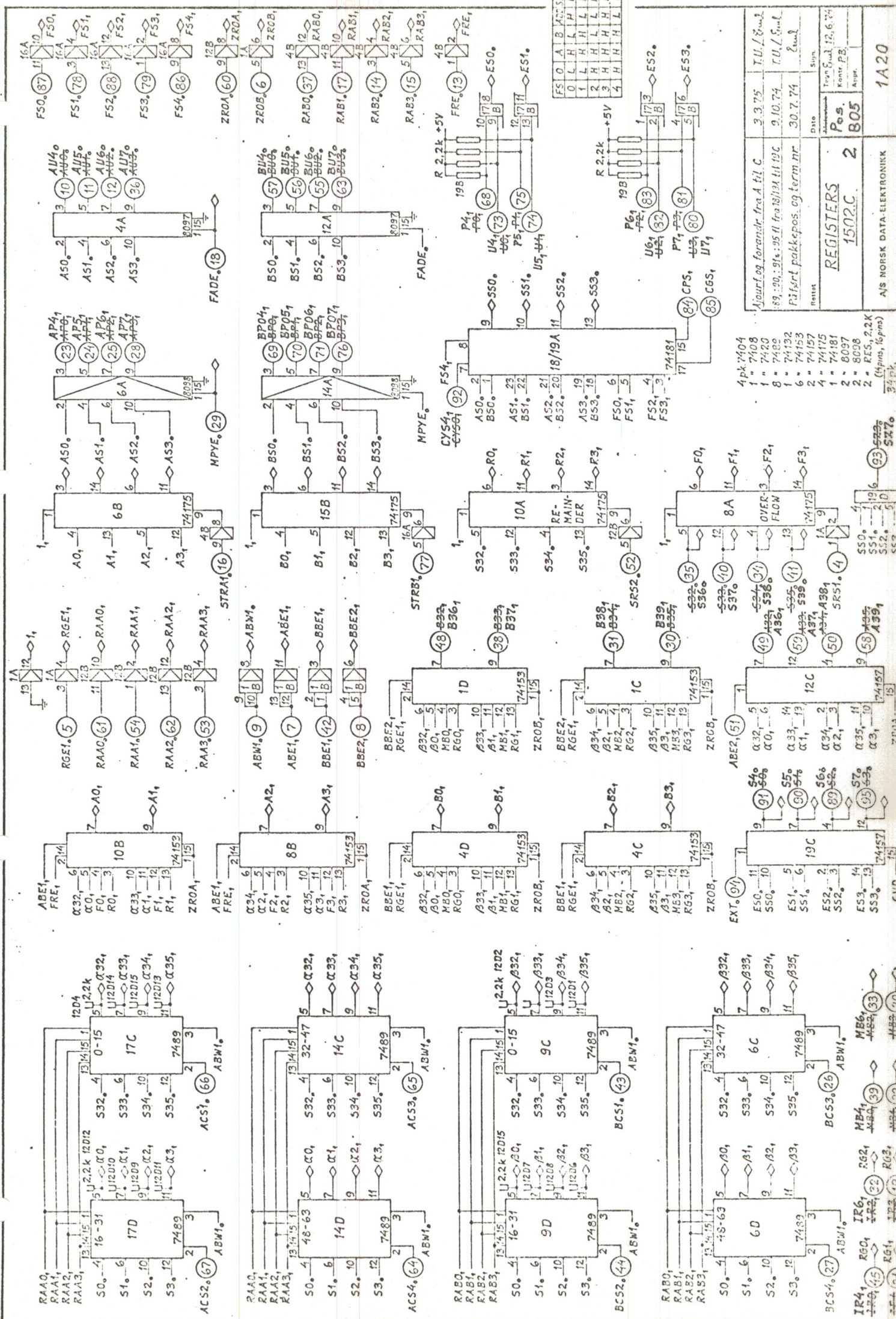
Ajourført og forandret fra A til C		3.3.75	T.U. / G.målt
: 89. : 91. : 95 H fra 18/12A til 19C		9.10.74	T.U. / G.målt
Fåstret pakkepos. og term.nr.		90.7.74	8.målt
Pos		1	1502.C
REGISTERS		1	1502.C
AJS NORSK DATA-ELEKTRONIKK			1A20

4pk 7404
1 = 7408
1 = 7420
8 = 7469
1 = 74132
6 = 74153
2 = 74157
4 = 74175
2 = 8097
2 = 8098
2 = RES, 2.2K
(44pins, 16pins)
34pk

- 1 pk 7404
- 1 pk 7408
- 2 pk 7469
- 1 pk 74132
- 3 pk 74153
- 1 pk 74181
- 2 pk 8037
- 2 pk 8058
- (2) pk 8820
- (4) pk 8831
- 2 pk 2.2K RES.
- 23 pk 86 Term.



Endr. f. c. t. d. (ingen rett.)	3.7.75	TU / BBO
Mønst. pk. endr. verdi til 2.2K	13.3.75	TU / BBO
Ajourført + endr. til C. utgave.	3.3.75	TU / BBO
Ajourført	17.9.74	TU / BBO
Pk. pos. + term. nr. påført	26.7.74	TU / BBO
Restert		Sign.
ARITHMETIC BUFFER	1	Pos.
1503 D.	B03	Sign.
		Term. BBO 126.74
		Kont. PB
		Asm.



4pk 7404

1. 7408
2. 7420
3. 7489
4. 74132
5. 74153
6. 74157
7. 74175
8. 8097
9. 8098

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50. 8098

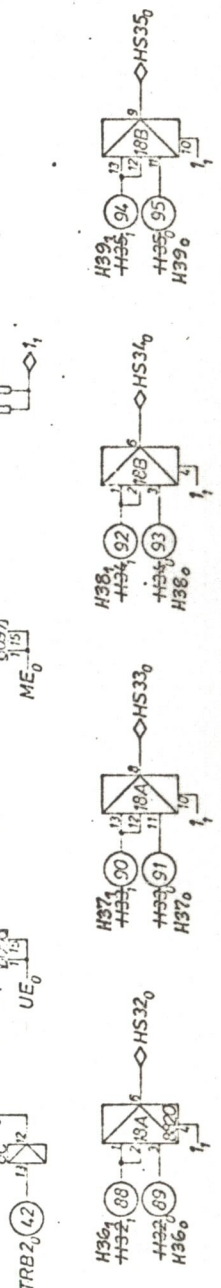
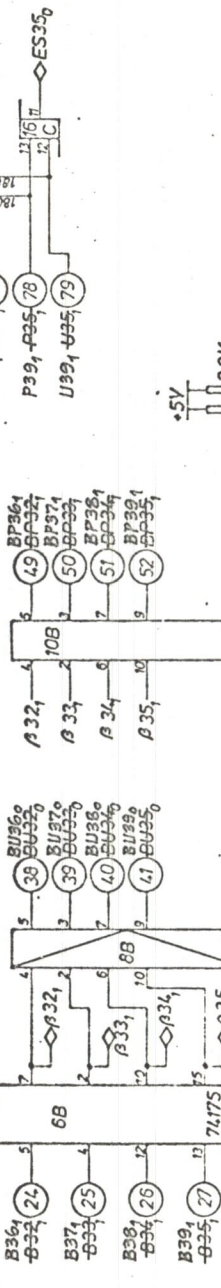
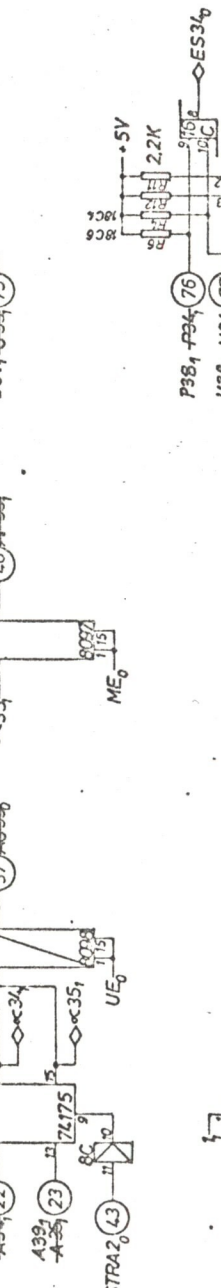
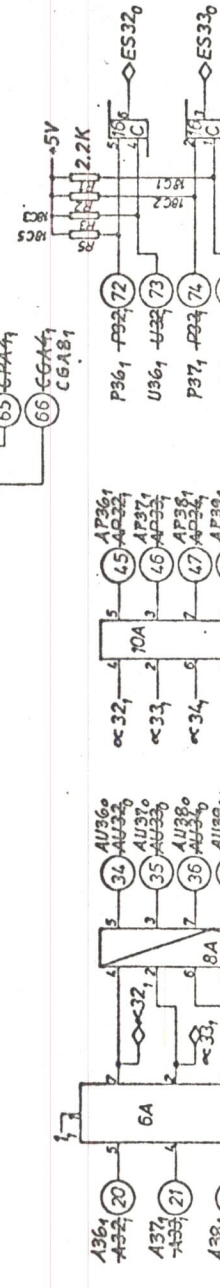
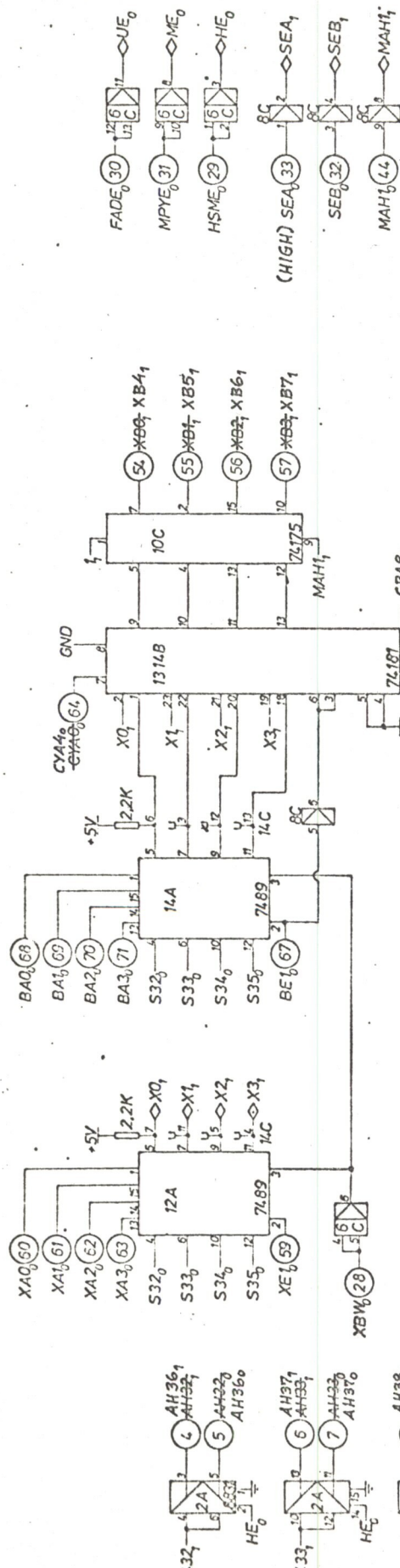
51. 8098
52. 8098
53. 8098
54. 8098
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57. 8098
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61. 8098
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67. 8098
68. 8098
69. 8098
70. 8098

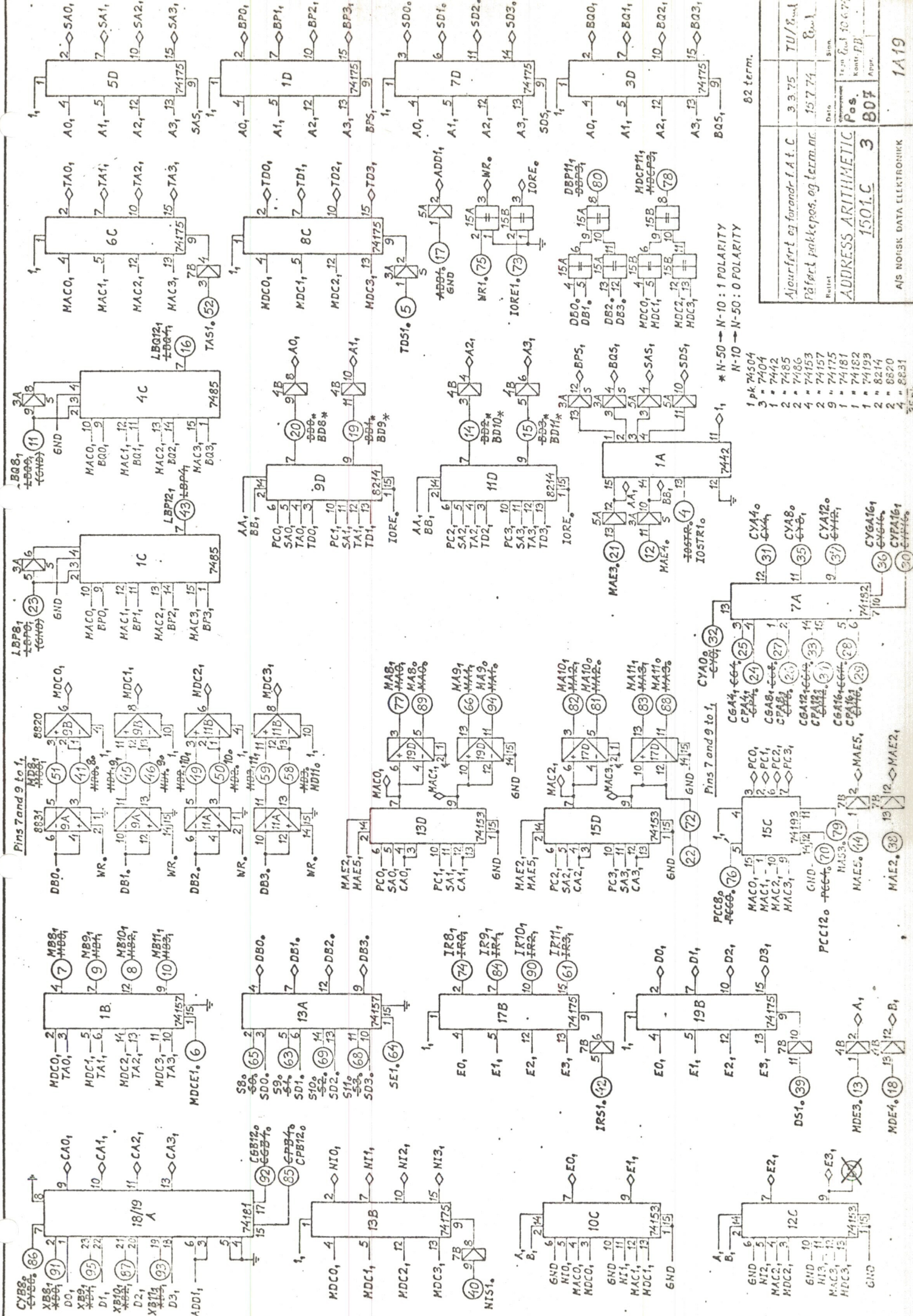
71. 8098
72. 8098
73. 8098
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75. 8098
76. 8098
77. 8098
78. 8098
79. 8098
80. 8098

Ajour-fog forandr fra A til C		3 3 75	T.U. / 2nd
89 : 90 : 91 : 92 : 93 : 94 : 95 : 96 : 97 : 98 : 99 : 100		9 10 74	T.U. / 2nd
Fikert pakkepos. og term nr		30 7 74	2nd
Restet	Date	Sign.	
Pos.	2	805	
1502.C.			
AIS NORSK DATA-ELEKTRONIKK			1A20

- 1 pk 7404
- 1 pk 7408
- 2 pk 7489
- 1 pk 74132
- 2 pk 74153
- 3 pk 74175
- 1 pk 8097
- 2 pk 8098
- (2) pk 8831
- (4) pk 8831
- 2 pk 2.2K RES
- 23 pk 86Term.

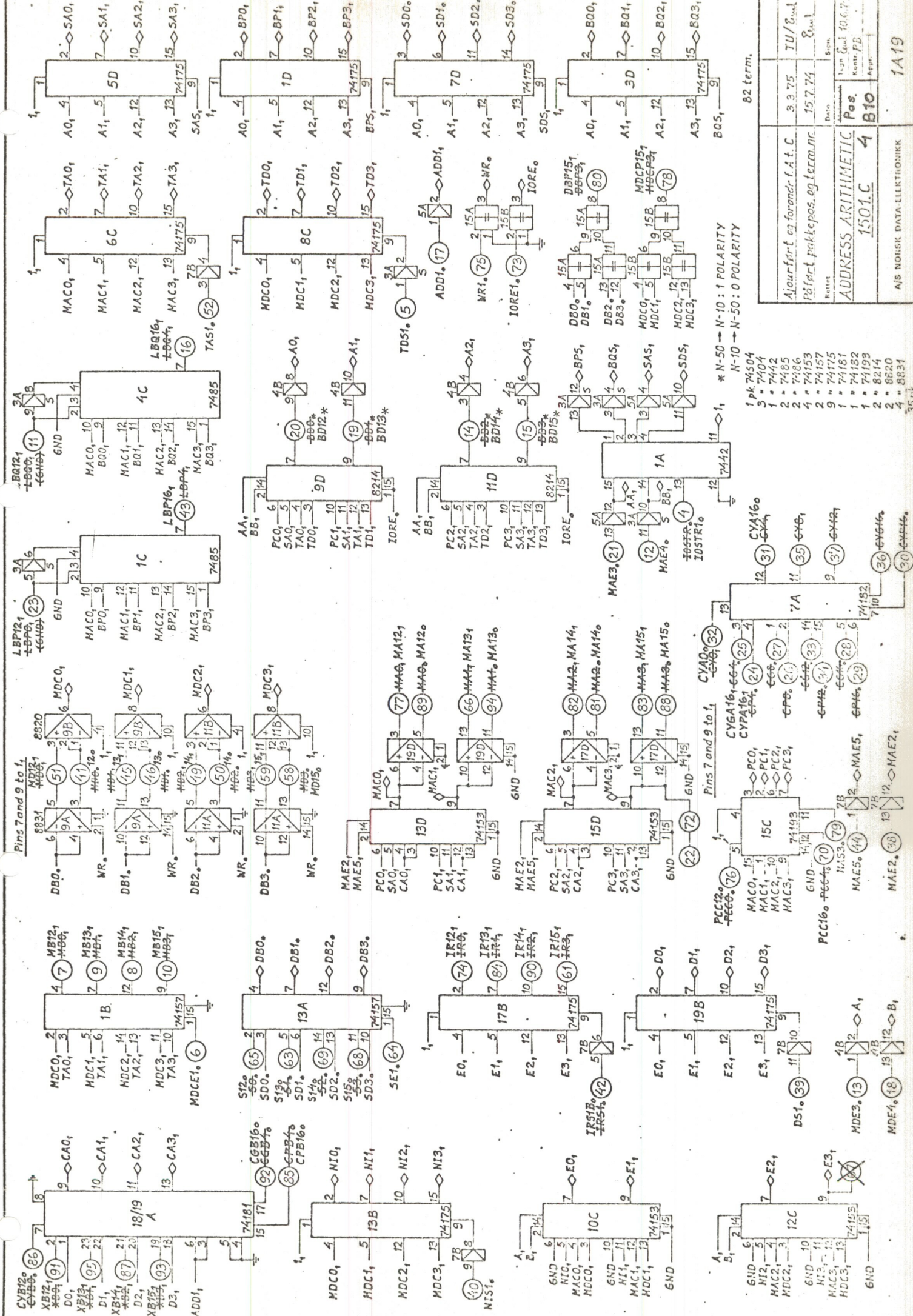


Endr. f. C. t. D. (ingen rett.)	3.7.75	TU/BB0
Motstpk. endr. verdi til 2.2K	13.3.75	TU/BB0
Ajourført + endr. til C. utgave.	3.3.75	TU/BB0
Ajourført	17.9.74	TU/BB0
Pk. pos. + term nr. påført	26.7.74	TU/BB0
Revisert		
Arbeidsnr.	1503.D	
Pos.	2	
Arithmetic Buffer		
1503.D		
1A21		



82 term.		82 term.	
1	2	1	2
3	4	3	4
5	6	5	6
7	8	7	8
9	10	9	10
11	12	11	12
13	14	13	14
15	16	15	16
17	18	17	18
19	20	19	20
21	22	21	22
23	24	23	24
25	26	25	26
27	28	27	28
29	30	29	30
31	32	31	32
33	34	33	34
35	36	35	36
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39	40	39	40
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53	54	53	54
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59	60	59	60
61	62	61	62
63	64	63	64
65	66	65	66
67	68	67	68
69	70	69	70
71	72	71	72
73	74	73	74
75	76	75	76
77	78	77	78
79	80	79	80
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85	86	85	86
87	88	87	88
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99	100	99	100

1A19



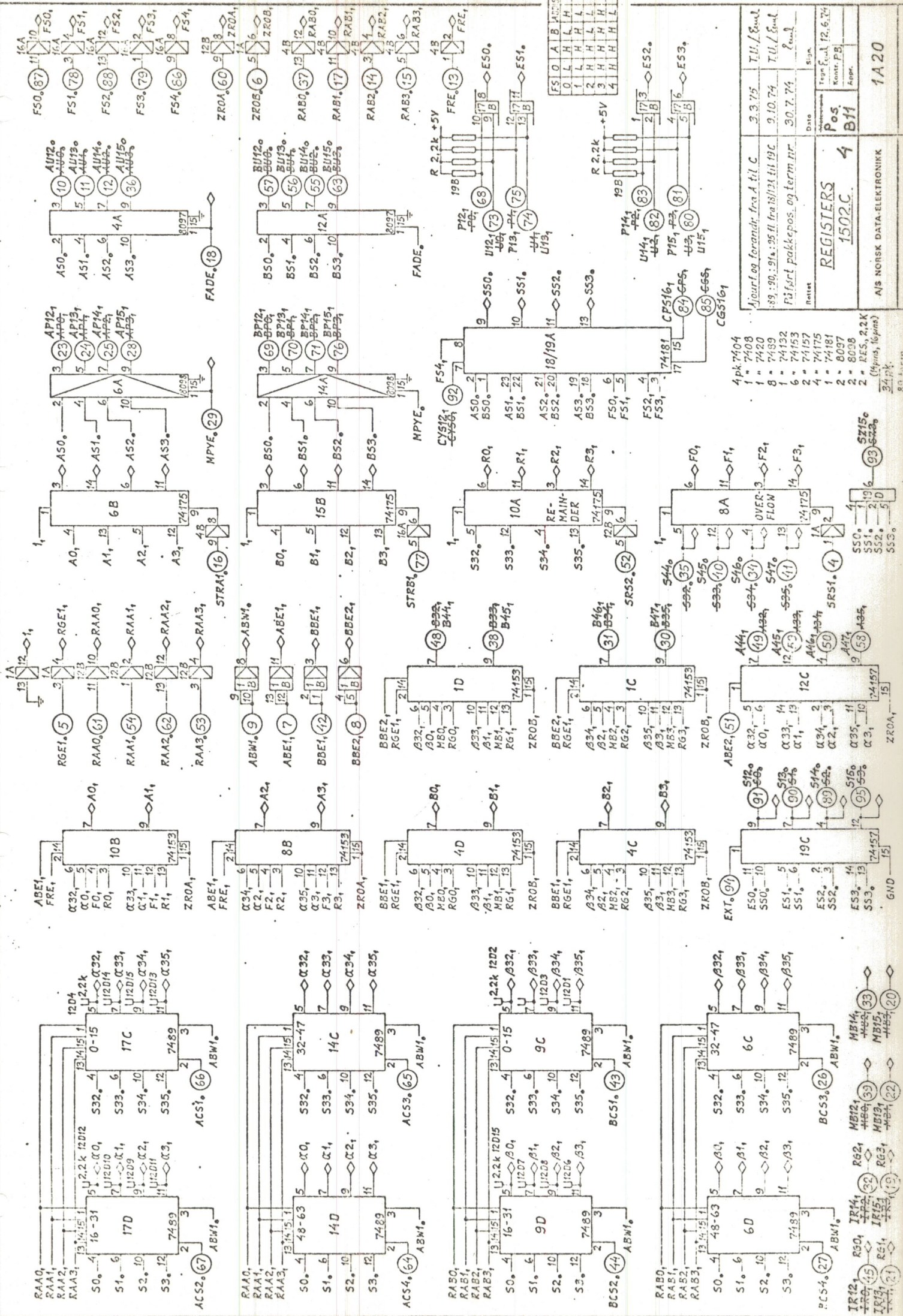
82 term.

Alour-før et forandr. i A. t. C.	Pos.	Sign.
Polført pakkepos. og term. inc.	3 3 75	TU/8m
ADDRESS ARITHMETIC	15 7 74	8m
1501.C	4 B10	Sign.
1A19		Sign.

- 1A 74504
- 3 7404
- 1 7442
- 2 7485
- 2 7486
- 2 74153
- 2 74157
- 2 74175
- 1 74181
- 1 74182
- 1 74193
- 2 8220
- 4 8831

- 1A 7442
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4pk 7404

1" 7408

1" 7420

8" 7439

1" 74132

2" 74157

4" 74175

1" 74181

2" 8037

2" 8038

2" 8039

2" 8040

2" 8041

2" 8042

2" 8043

2" 8044

2" 8045

2" 8046

2" 8047

2" 8048

2" 8049

2" 8050

2" 8051

2" 8052

2" 8053

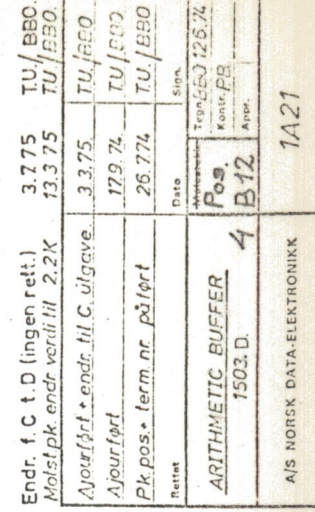
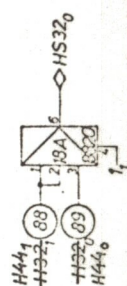
2" 8054

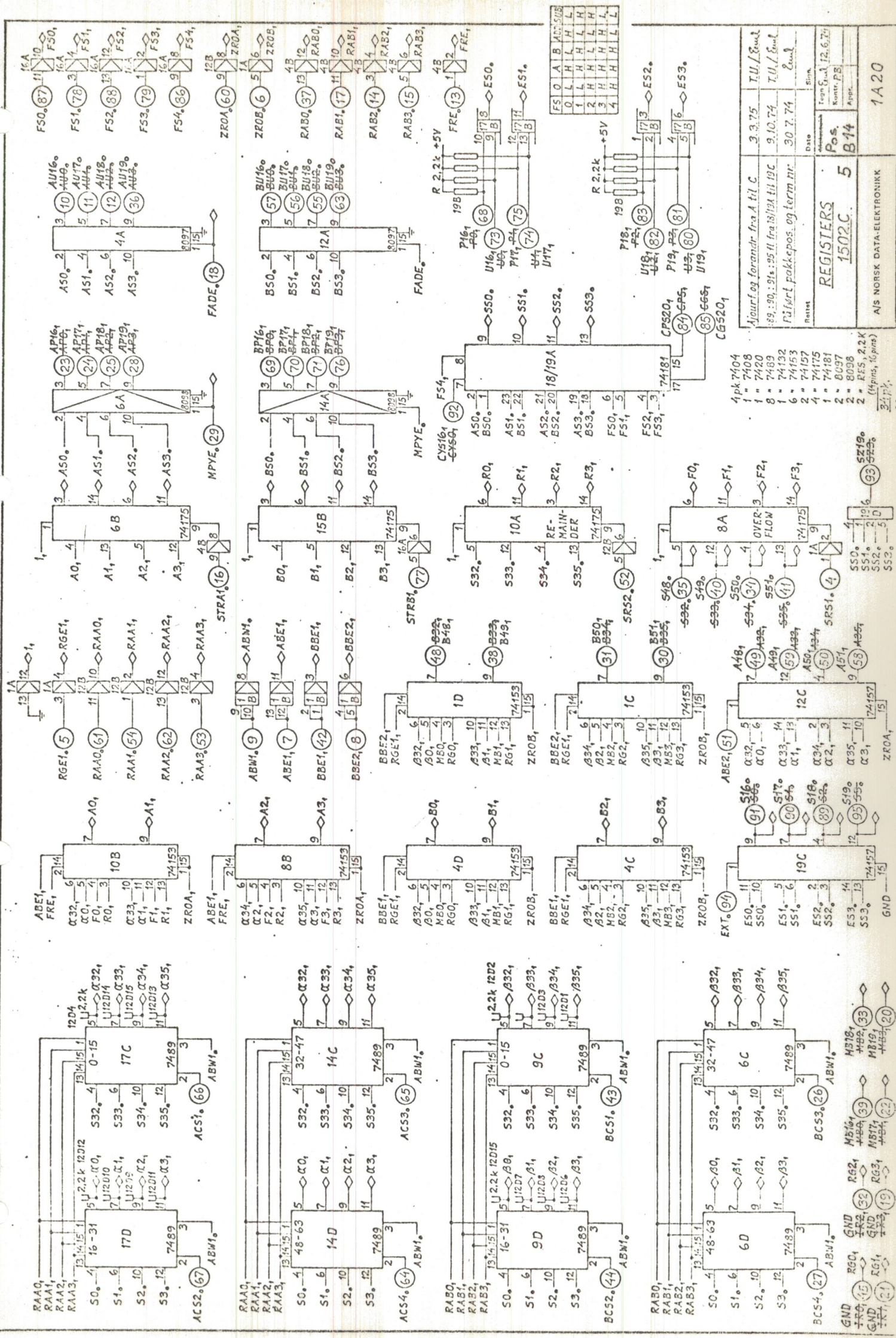
2" 8055

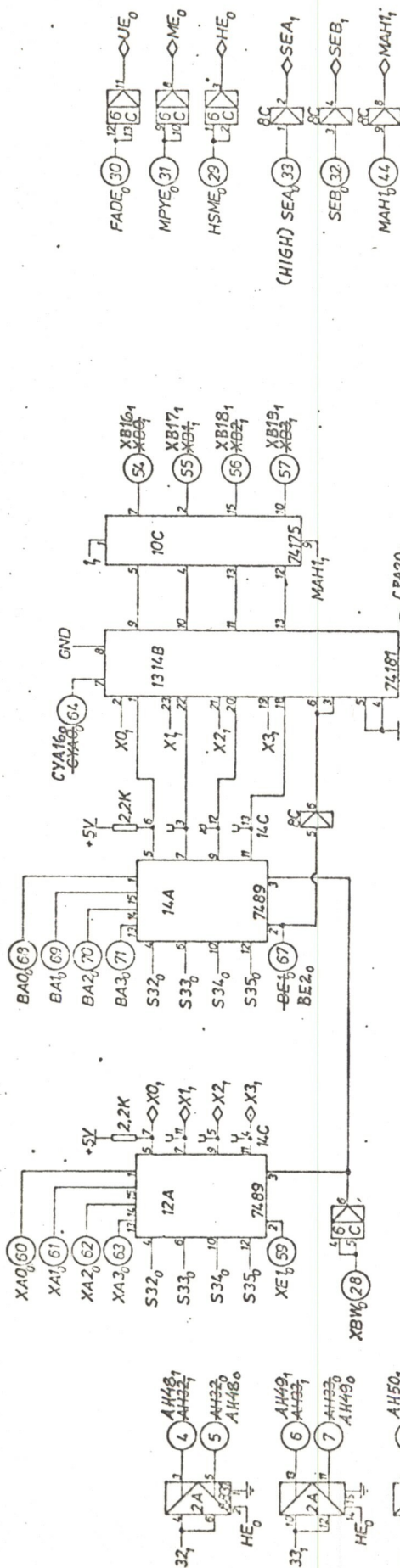
2" 8056

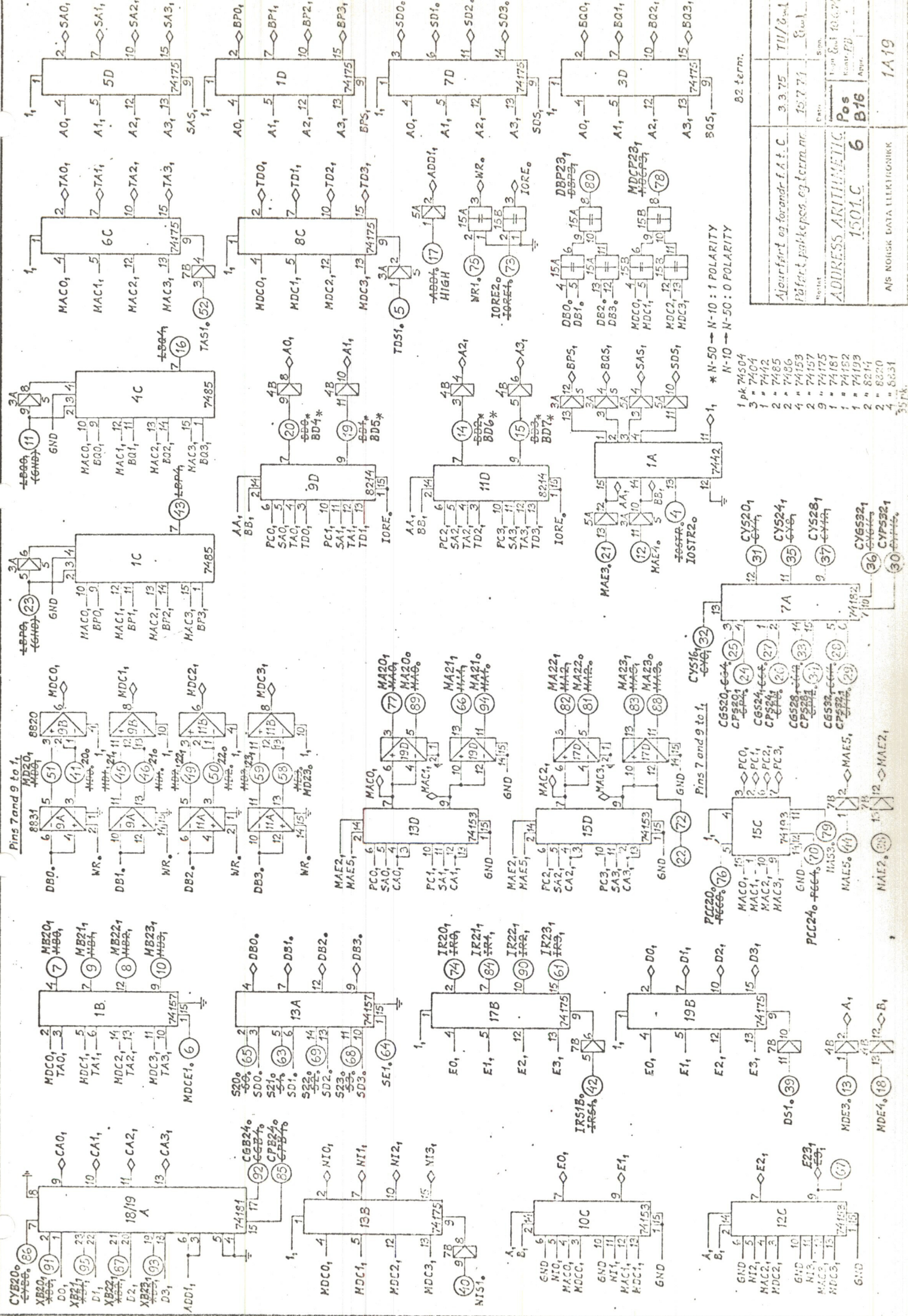
2" 8057

2









82 term.

Ajourført og forandret af		Til/End	Sign	
Påført pakkepos. og term. nr.		3.3.75	Til/End	82.1
ADDRESS ARITHMETIC		1501.C	Pos	B16
1A19			Page	10/10

1 pk 74504

3 = 7404

1 = 7412

2 = 7485

2 = 7486

4 = 74153

2 = 74157

9 = 74175

1 = 74181

1 = 74182

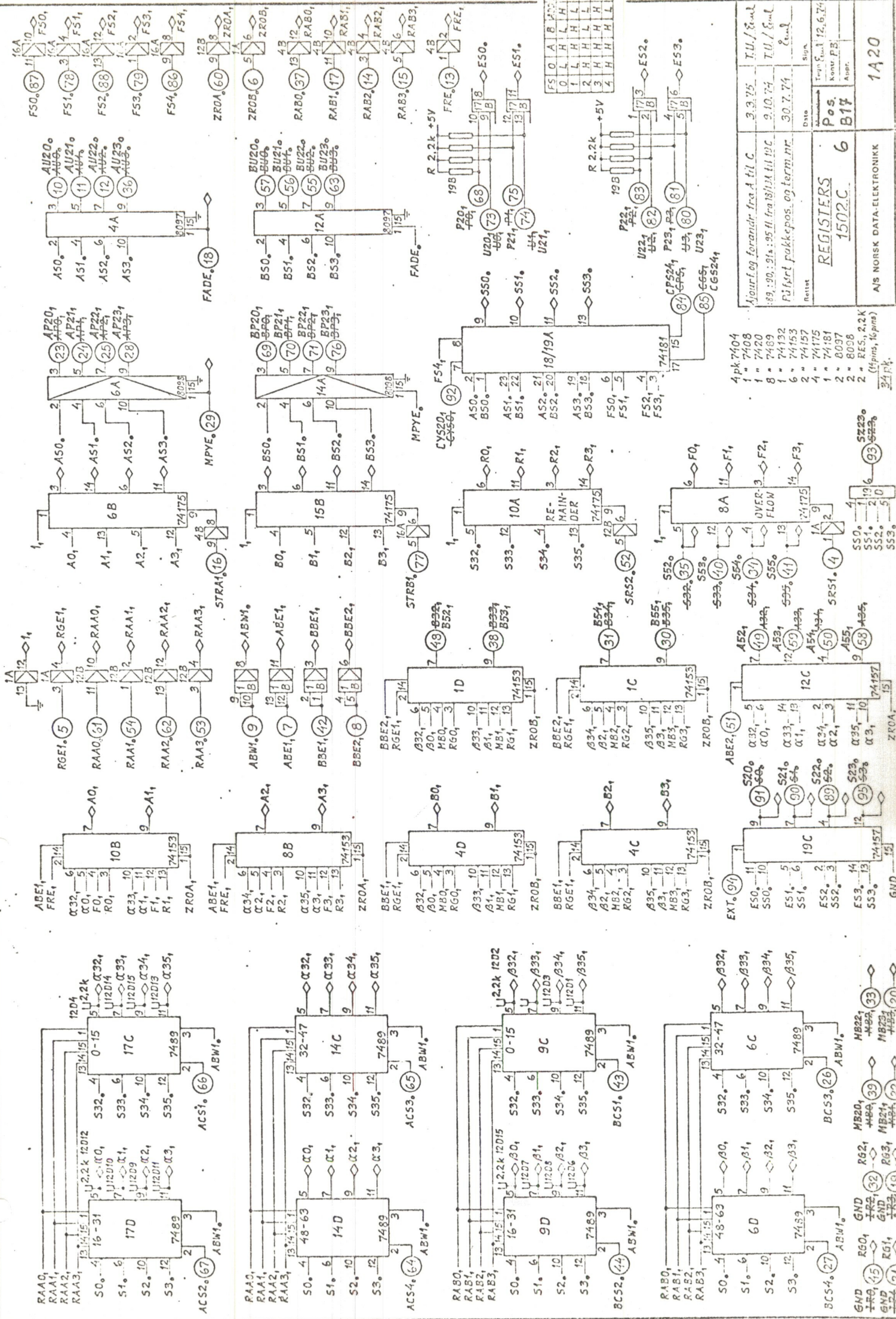
1 = 74193

2 = 820

2 = 821

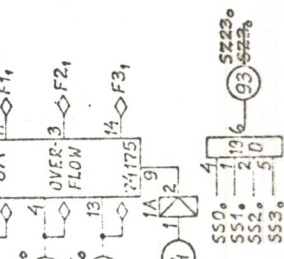
4 = 8231

35X

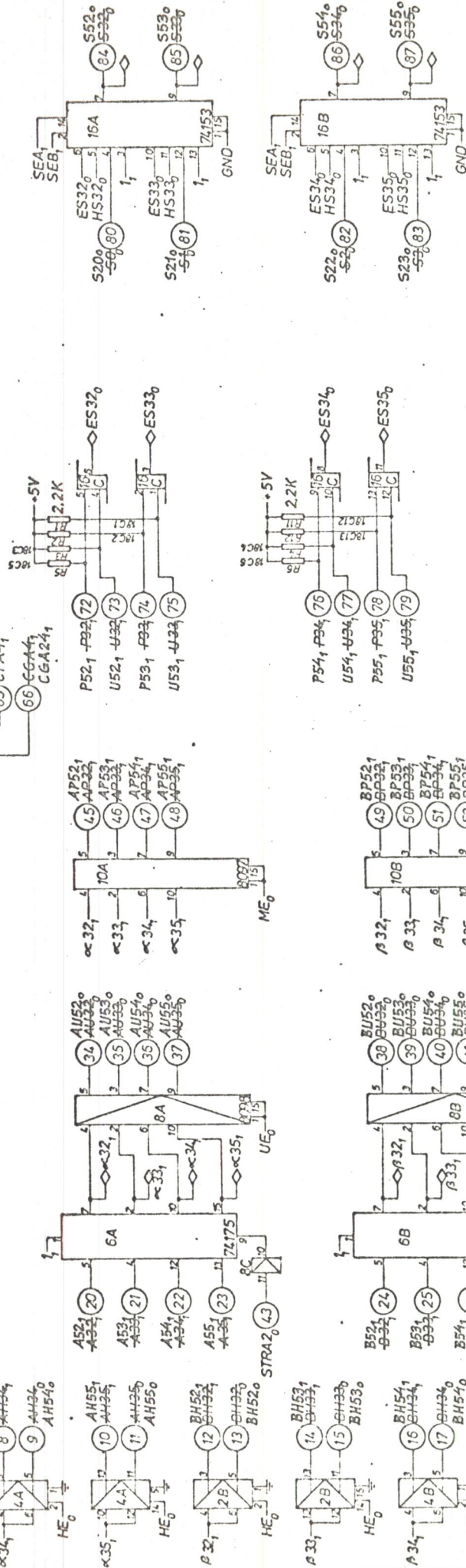
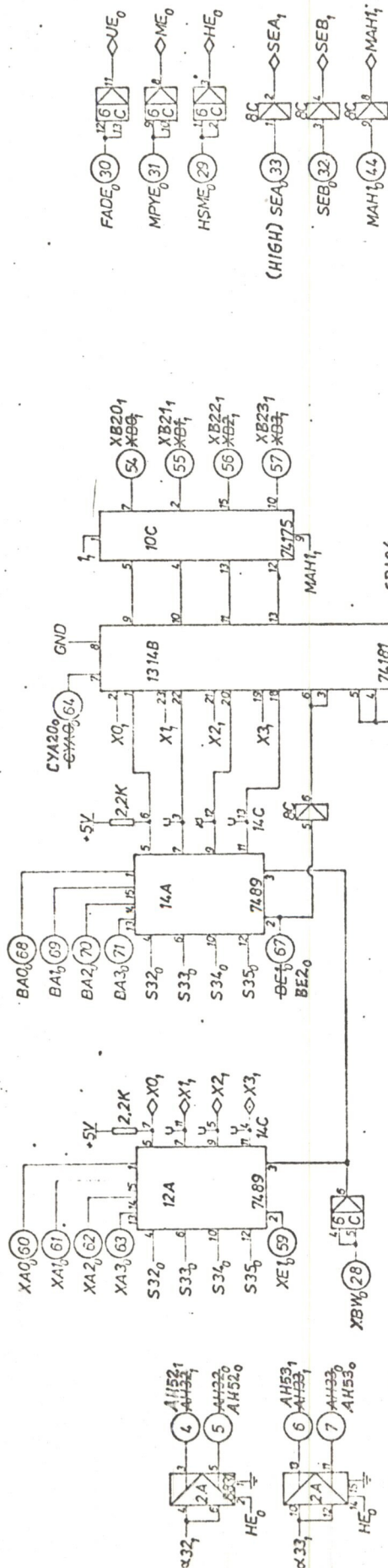


Ajourl og forandr. fra A til C.		3. 3. 75.	T.U. / 2. u.
89. 90. 91. 95 H. fra 18/12 A til 19 C.		9. 10. 74.	T.U. / 2. u.
Følger pakkepos. og term. nr.		30. 7. 74.	2. u.
Rettet			
REGISTERS		Pos. 6	Sign.
1502C		B17	Asp.
AJS NORSK DATA-ELEKTRONIK			
1A20			

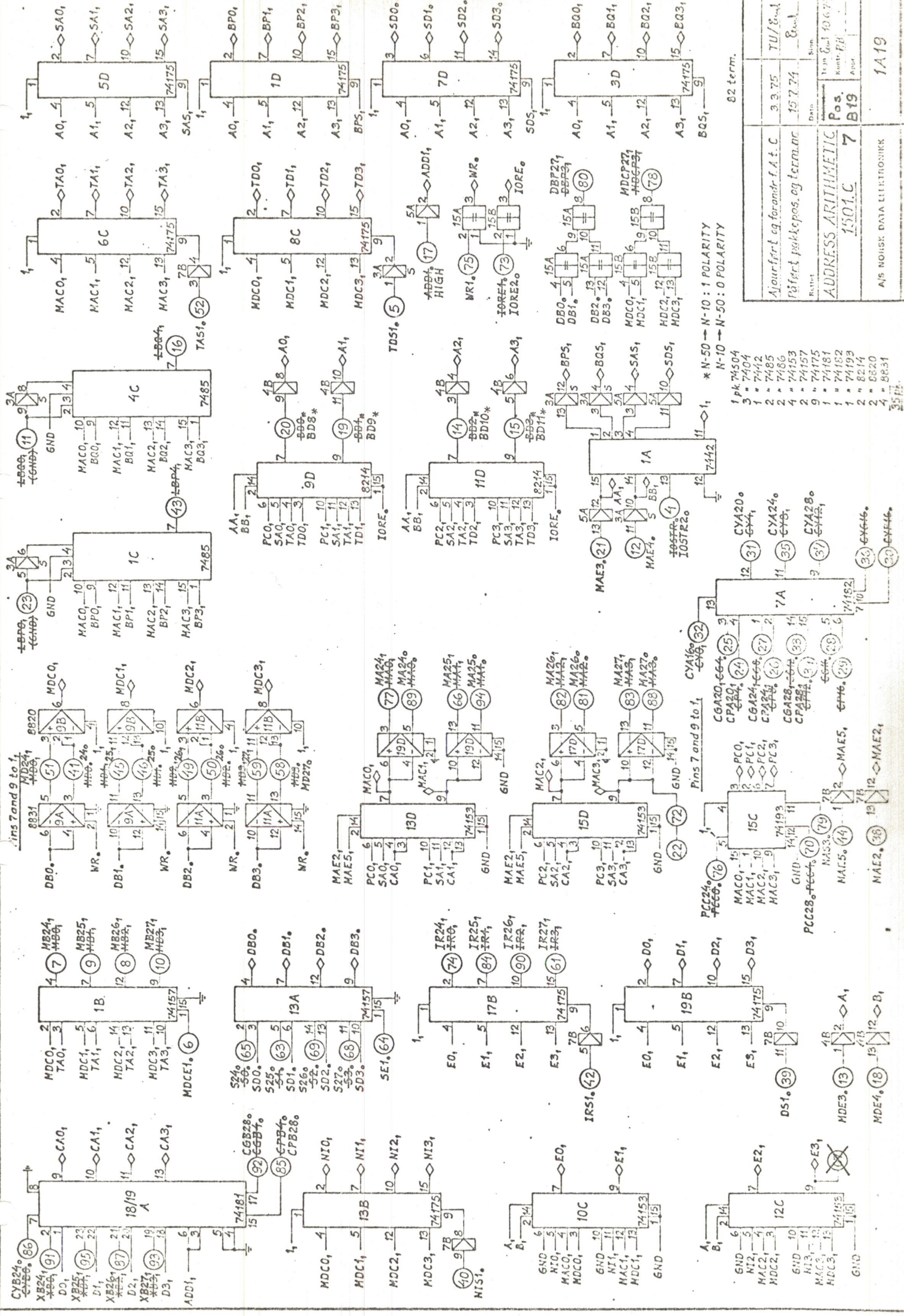
- 4pk 7404
1 = 7408
1 = 7420
8 = 7489
1 = 74132
6 = 74153
2 = 74157
2 = 74181
2 = 8037
2 = RES., 2.2K
2 = RES., 10pins, 10pins
34 pk.



- 1 pk 7404
- 1 pk 7408
- 2 pk 7469
- 1 pk 74132
- 2 pk 74153
- 3 pk 74175
- 1 pk 74181
- 2 pk 8037
- 2 pk 8098
- (2) pk 8820
- (4) pk 8831
- 2 pk 2.2K RES.
- 23 pk. 66Term.



Endr. f. C. D. (ingen. rett.)	3.775	TU/BB
Motetpk endr. verdi til 2.2K	13.375	TU/BB
Ajourført + endr. til C. uitgave.	3.375	TU/BB
Ajourført	179.74	TU/BB
Pk pos + term nr. påført	26.774	TU/BB
Rettet		
Pos.	6	1503.D
ARITHMETIC BUFFER		
1503.D		
1A21		

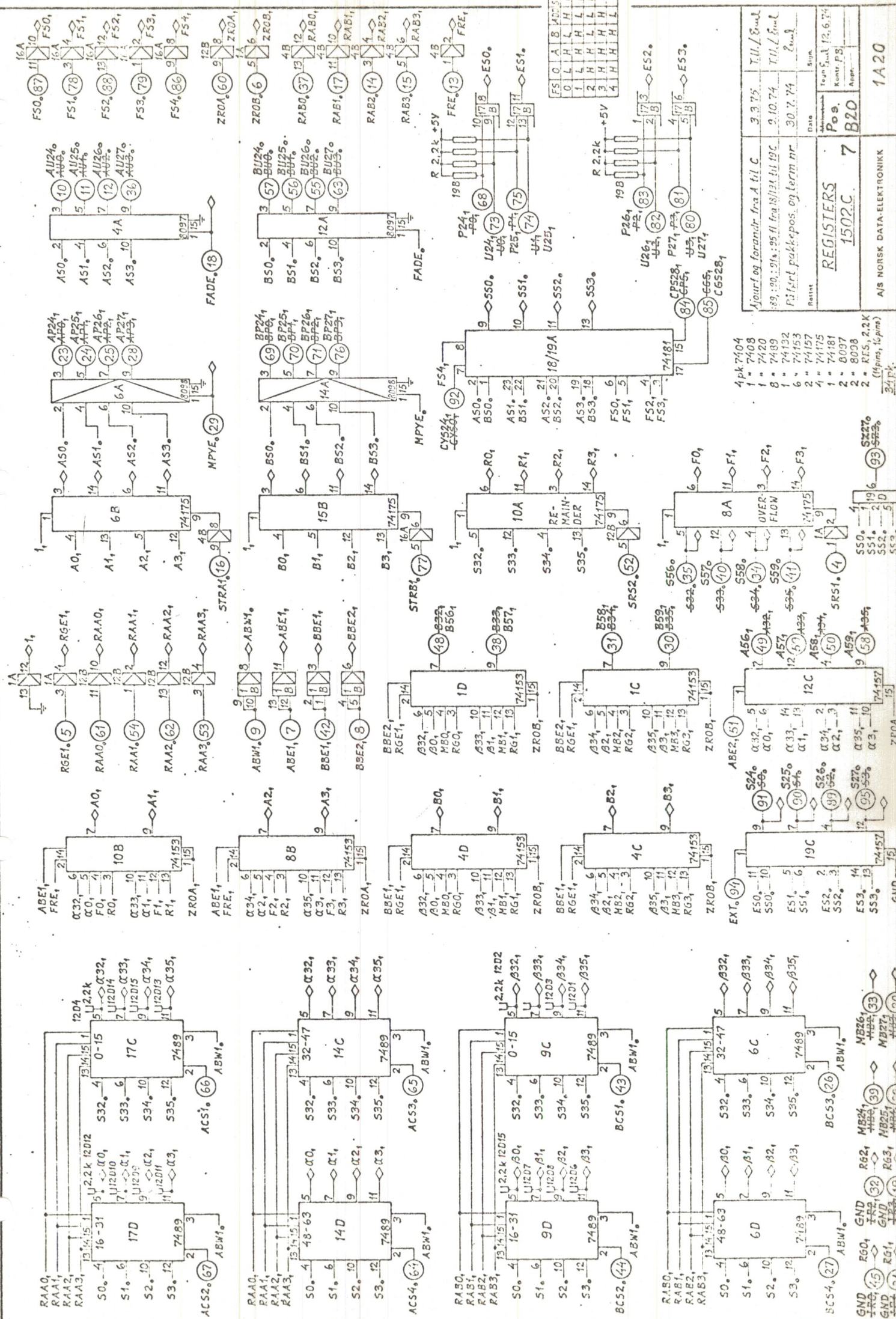


82 term.

Ajourført af forordr. f. A. C.		3.3.75	TU/8.1	8.1
Påført pakkepos. af term. nr.		15.7.74	8.1	8.1
ADDRESS ARITHMETIC		1501.C	7	B19
Pos.		7	B19	1A19
AJS NORSK DATA ELEKTRONIK				

- 1pk 74304
3 = 7404
1 = 7442
2 = 7485
2 = 7486
2 = 7486
2 = 74153
2 = 74157
9 = 74175
1 = 74181
1 = 74182
1 = 74193
2 = 8214
2 = 8220
4 = 8231
35 pin.

* N-10 → N-10 : 1 POLARITY
* N-50 → N-50 : 0 POLARITY



Apk 7404
1 - 7408
1 - 7420
8 - 7489
1 - 74132
6 - 74153
2 - 74157
4 - 74175
1 - 74181
2 - 80037
2 - 80038
2 - RFS, 2.2k
2 - (4 pins, 10 pins)
34 pins

1 - 7408
1 - 7420
8 - 7489
1 - 74132
6 - 74153
2 - 74157
4 - 74175
1 - 74181
2 - 80037
2 - 80038
2 - RFS, 2.2k
2 - (4 pins, 10 pins)
34 pins

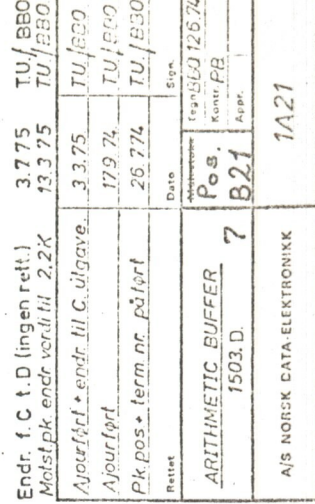
1 - 7408
1 - 7420
8 - 7489
1 - 74132
6 - 74153
2 - 74157
4 - 74175
1 - 74181
2 - 80037
2 - 80038
2 - RFS, 2.2k
2 - (4 pins, 10 pins)
34 pins

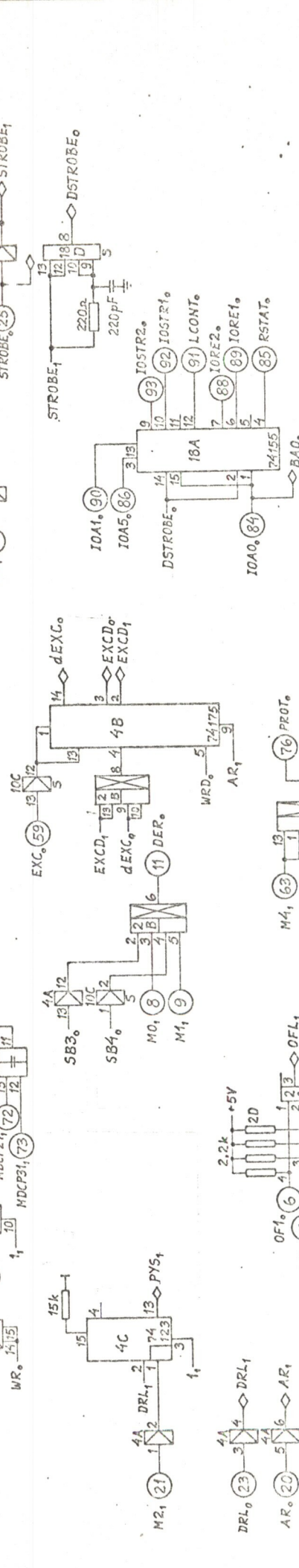
1 - 7408
1 - 7420
8 - 7489
1 - 74132
6 - 74153
2 - 74157
4 - 74175
1 - 74181
2 - 80037
2 - 80038
2 - RFS, 2.2k
2 - (4 pins, 10 pins)
34 pins

1 - 7408
1 - 7420
8 - 7489
1 - 74132
6 - 74153
2 - 74157
4 - 74175
1 - 74181
2 - 80037
2 - 80038
2 - RFS, 2.2k
2 - (4 pins, 10 pins)
34 pins

1 - 7408
1 - 7420
8 - 7489
1 - 74132
6 - 74153
2 - 74157
4 - 74175
1 - 74181
2 - 80037
2 - 80038
2 - RFS, 2.2k
2 - (4 pins, 10 pins)
34 pins

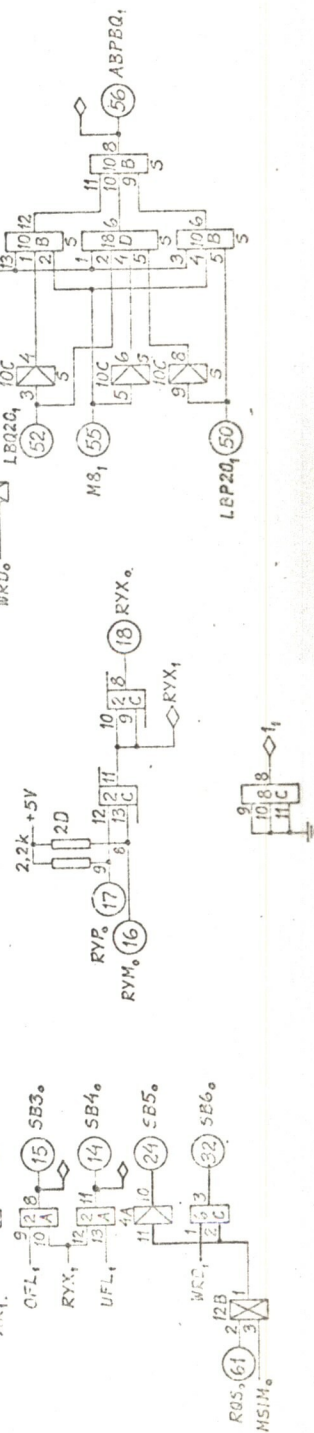
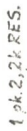
Journal og forandr. fra A til C		3.3.75	T.U.L./Embl
89.39.394.95 II fra 18/11 til 19C		9.10.74	T.U.L./Embl
Påført publikkpos. og term nr		30.7.74	Embl
Revisit	Date	Sign.	
REGISTERS	Poa	B20	
1502C	7		
AJS NORSK DATA-ELEKTRONIKK			1A20

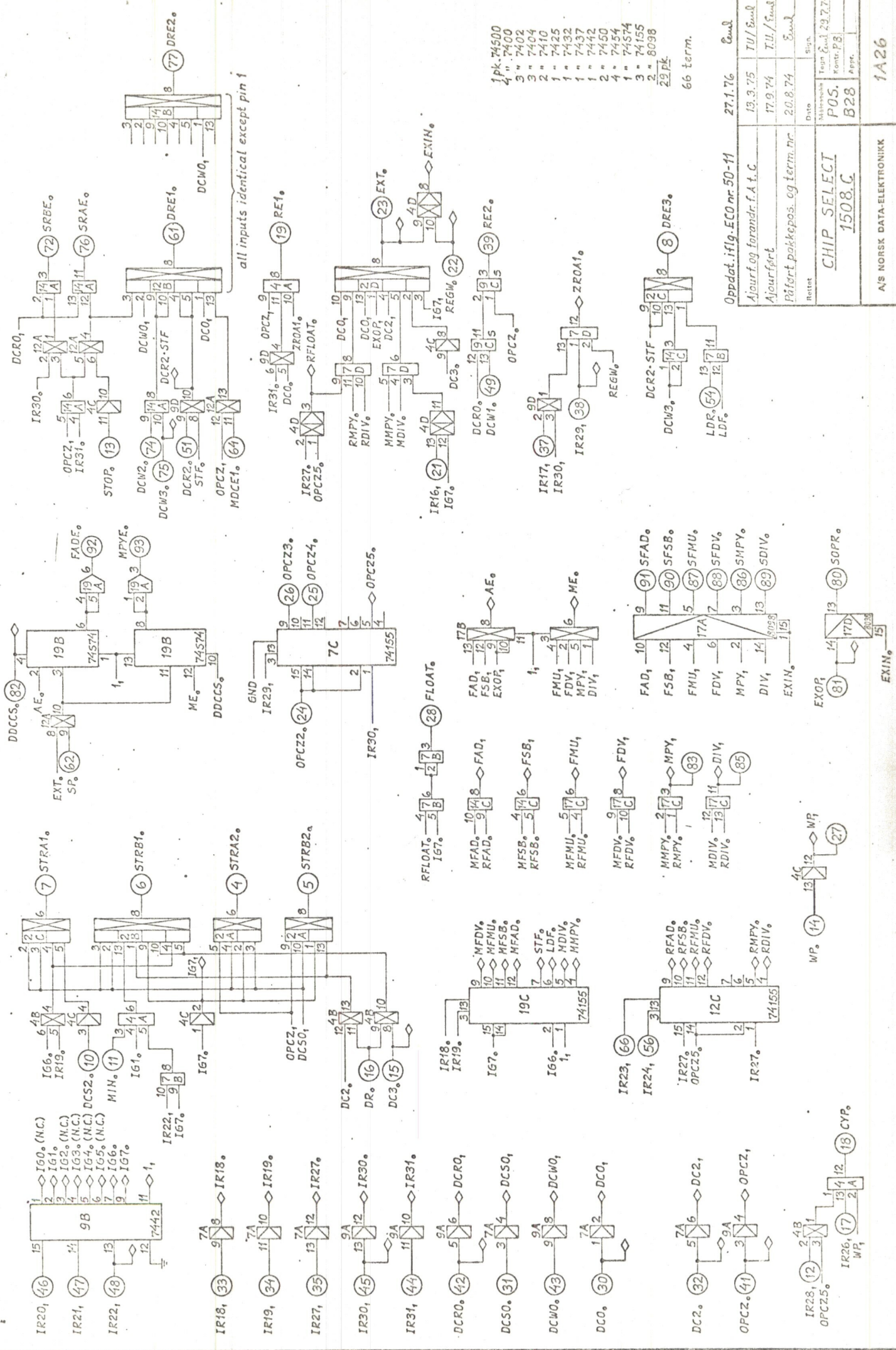


[illegible]

91 term.
OPPDAT: IFLG.ECO NR.50-18. (G)
23/4/76/TAA

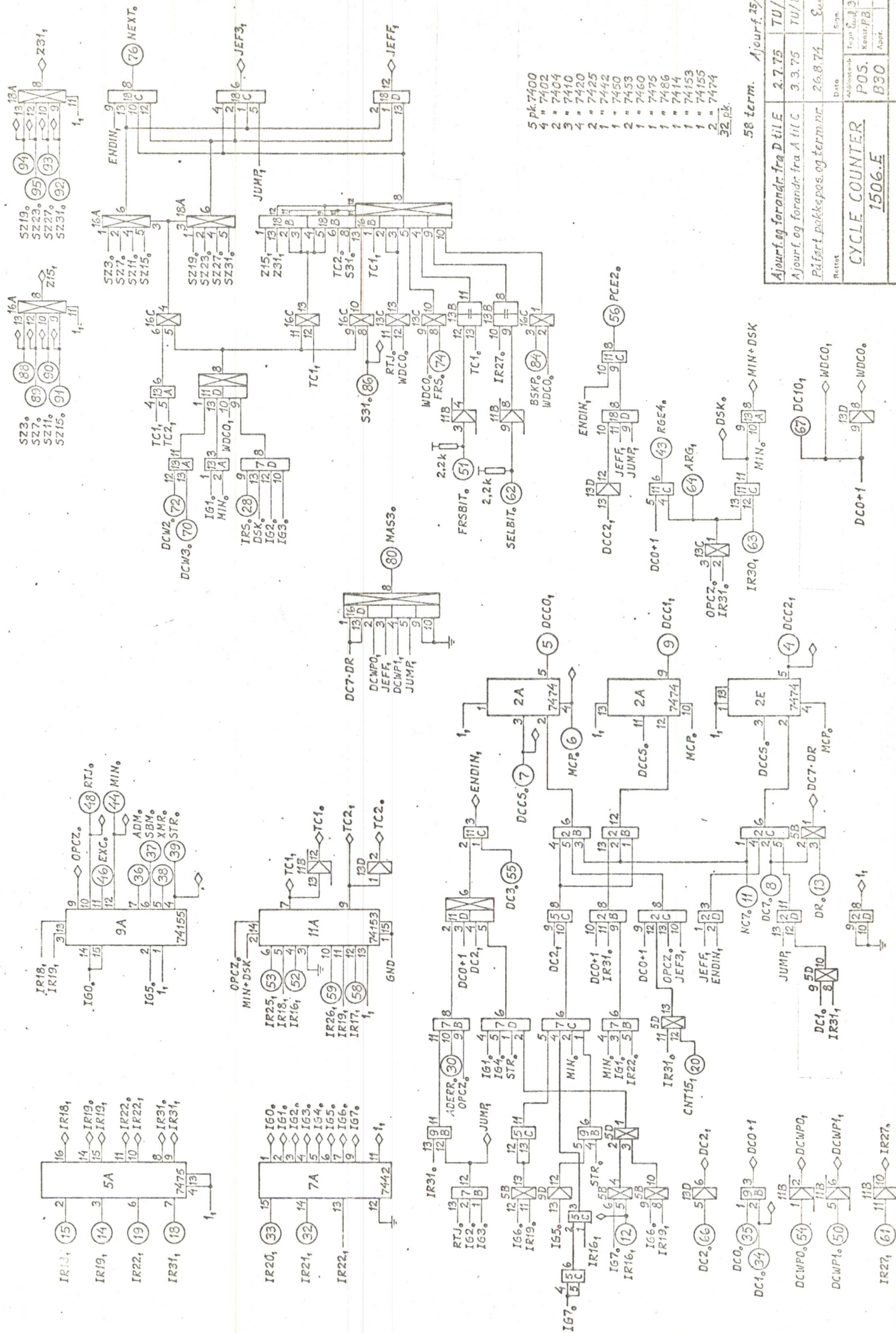
Ajourf. og forandr. f. D. t. E. Ajourf. og forandr. fra A til C. Påført pakkepos. og løsterr. nr.	17.75	T.U. / Euro	17.75	T.U. / Euro
	3.3.75	T.U. / Euro	3.3.75	T.U. / Euro
	4.9.74	T.U. / Euro	4.9.74	T.U. / Euro
Rettes				
Nord-50 Controller		1504.G		
A/S NORSK DATA-ELEKTRONIKK		1A22		



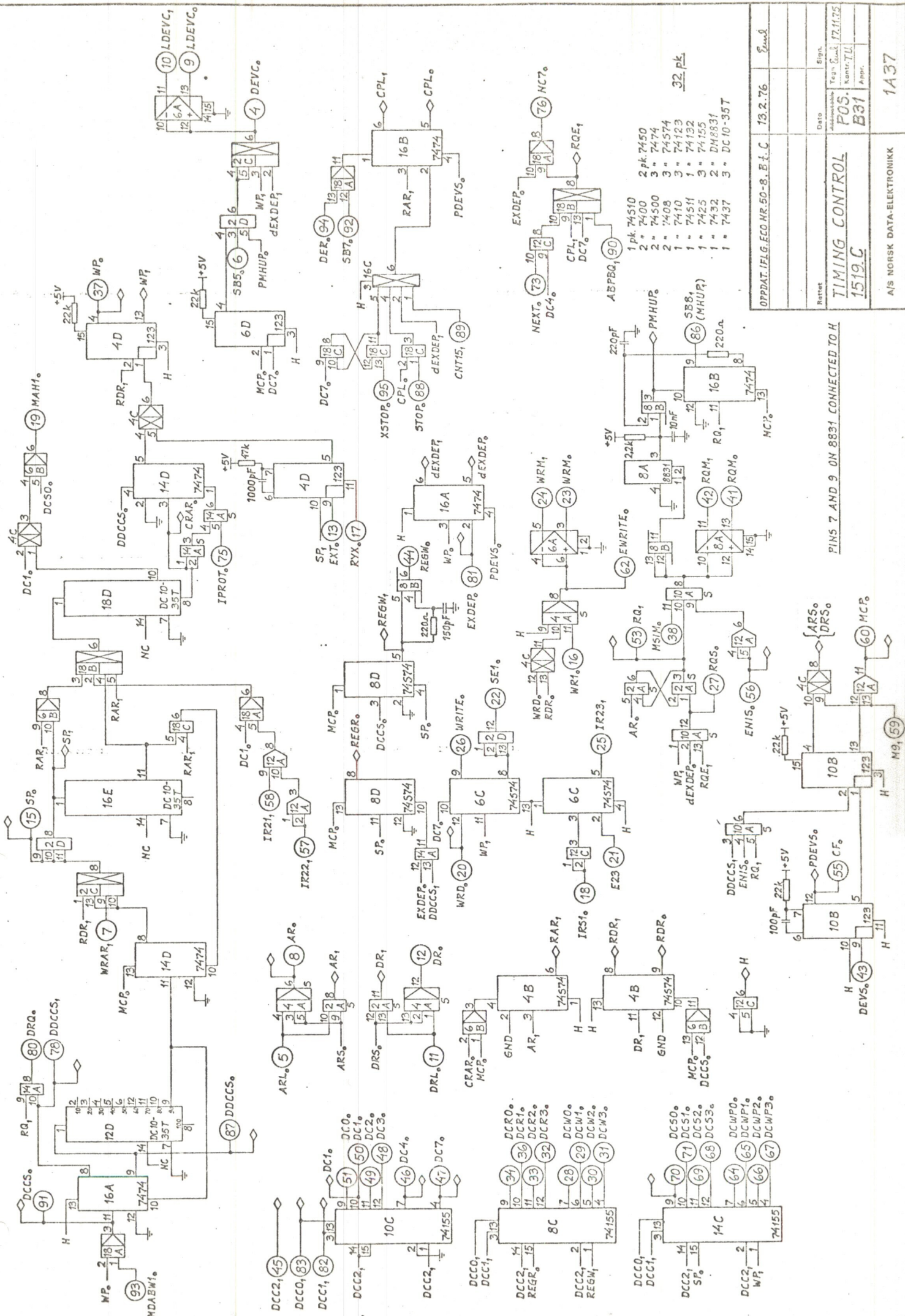


- 1pk. 74500
- 4" 7400
- 3" 7402
- 3" 7404
- 2" 7410
- 1" 7425
- 1" 7432
- 1" 7437
- 1" 7442
- 2" 7450
- 4" 7454
- 1" 7457
- 3" 7455
- 2" 8098
- 29 pk.
- 66 term.

Oppdat. iflg. ECO nr 50-11		27.1.76	End
Ajourf. og forandr. f. A. t. C		13.3.75	TU/End
Ajourført		17.9.74	TU/End
Påført pakkepos. og term. nr.		20.8.74	End
Rettest			
Sign.			
Mikroelektronik			
Tegn		29.7.74	
Kontr. PS			
B28			
Appr.			
CHIP SELECT			
1508.C			
A/S NORSK DATA-ELEKTRONIKK			
1A26			



Ajourf. og forandr. fra D til E	2.7.75	TU/End
Ajourf. og forandr. fra A til C	3.3.75	TU/End
Påført pakkepos. og term.nr.	26.8.74	End
Dato		Sign.
Arbejdsblad	30.7.74	
POS.	B30	
CYCLE COUNTER	1506.E	
A/S NORSK DATA-ELEKTRONIK		
1A24		

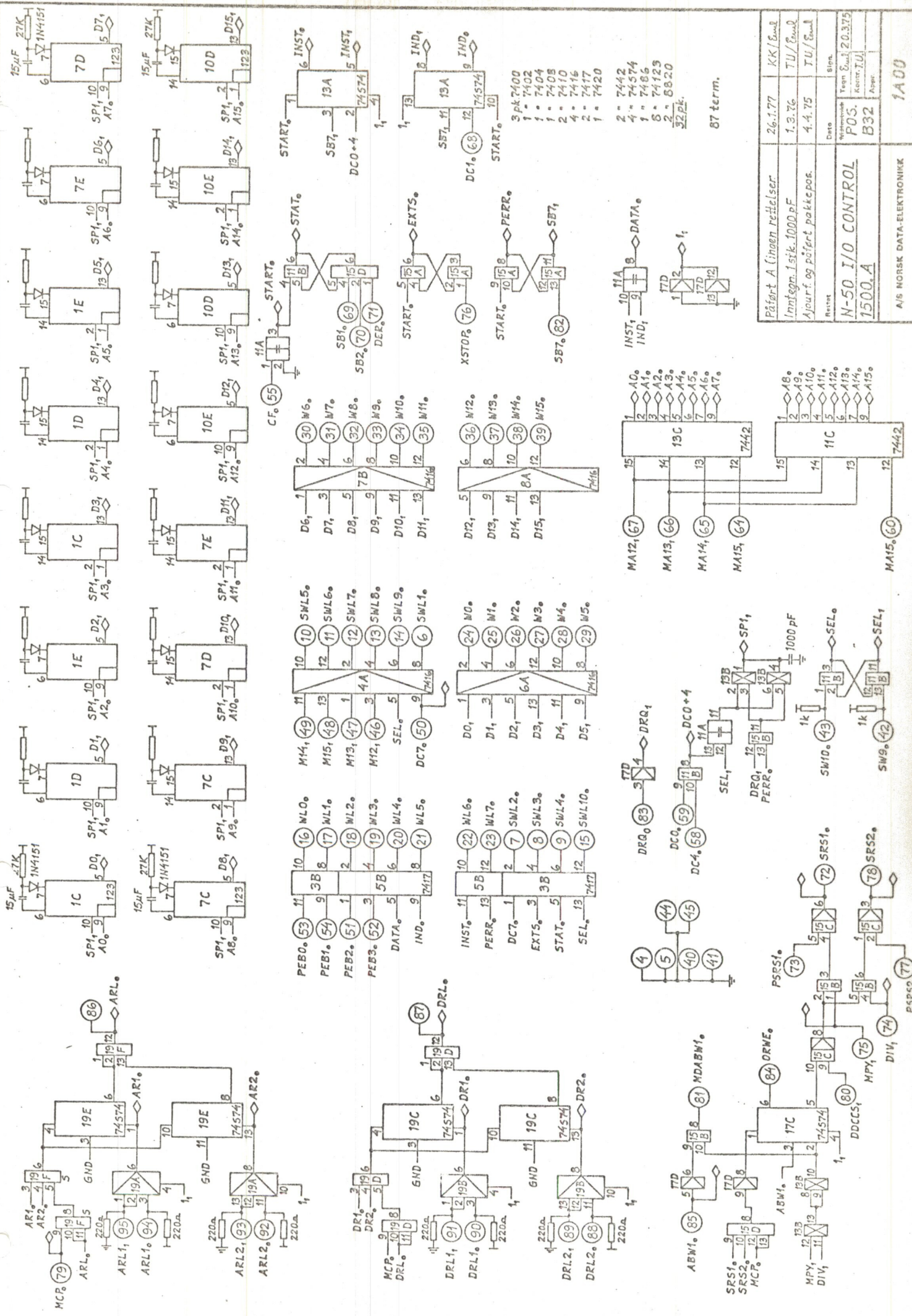


PINS 7 AND 9 ON 8831 CONNECTED TO H

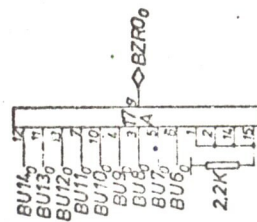
OPPDAT	IFLG	ECO	NR	50-8	E	I	C	13.2.76	Emd
Retest									
Date									
Sign.									
Addressable									
POS.									
B31									
Appr.									
1A37									

TIMING CONTROL
1519.C

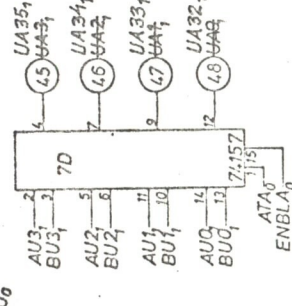
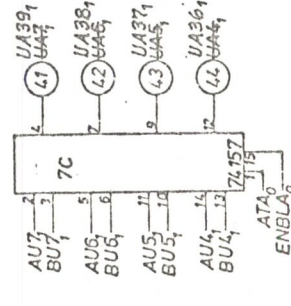
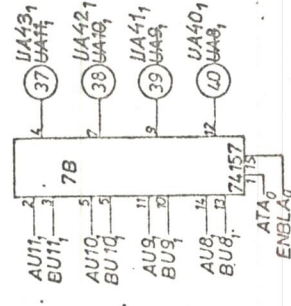
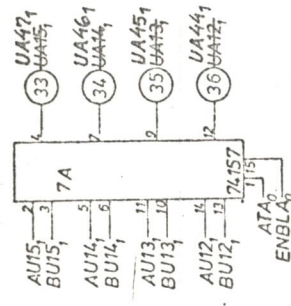
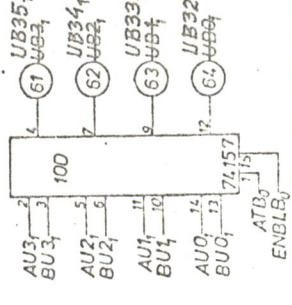
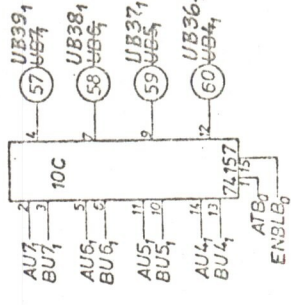
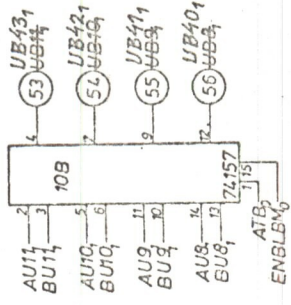
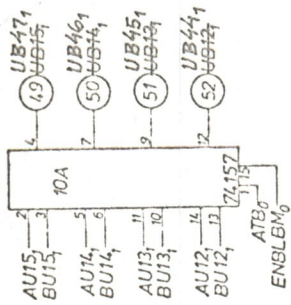
A/S NORSK DATA-ELEKTRONIKK



Påført A (i noen rettelser)		26.1.77	KK/Emil
Innlevert 1stk. 1000 pF		1.3.76	TU/Emil
Ajourført og påført pakkepos.		4.4.75	TU/Emil
Retting			Sinn.
N-50 I/O CONTROL			
1500.A			
B32			
Tegn Emil		20.3.75	
Korrig. TU			
Ajour.			
A/S NORSK DATA-ELEKTRONIKK			
1A00			

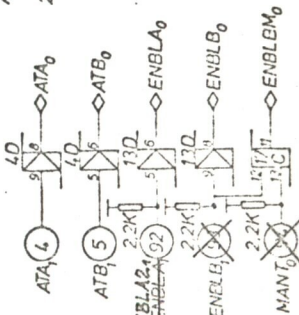
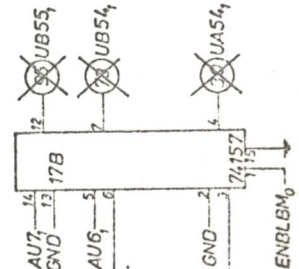
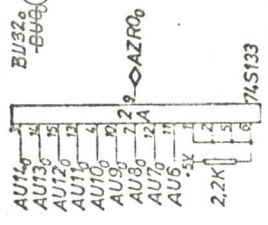
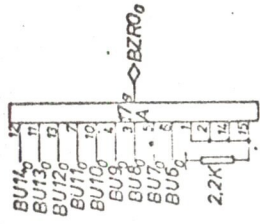
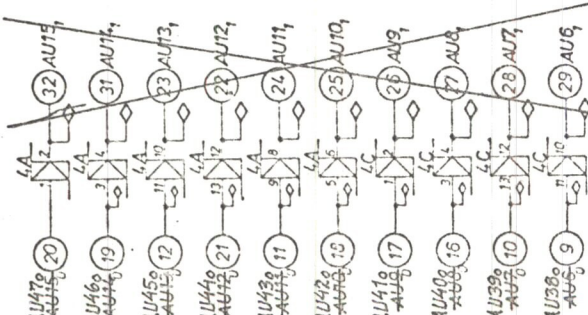
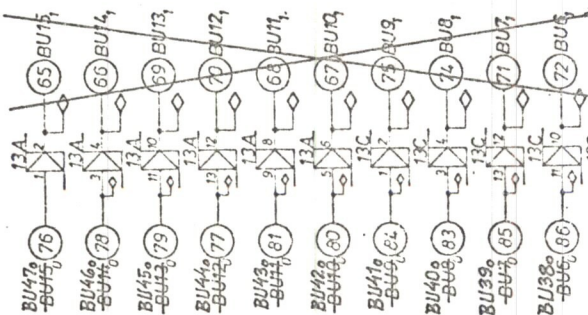


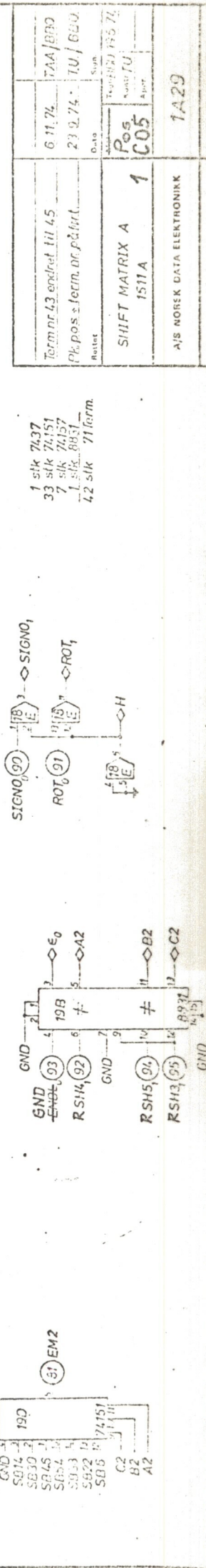
7A31

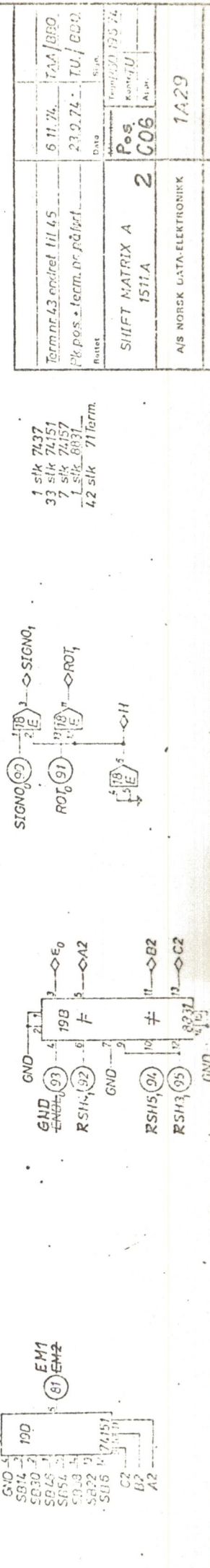
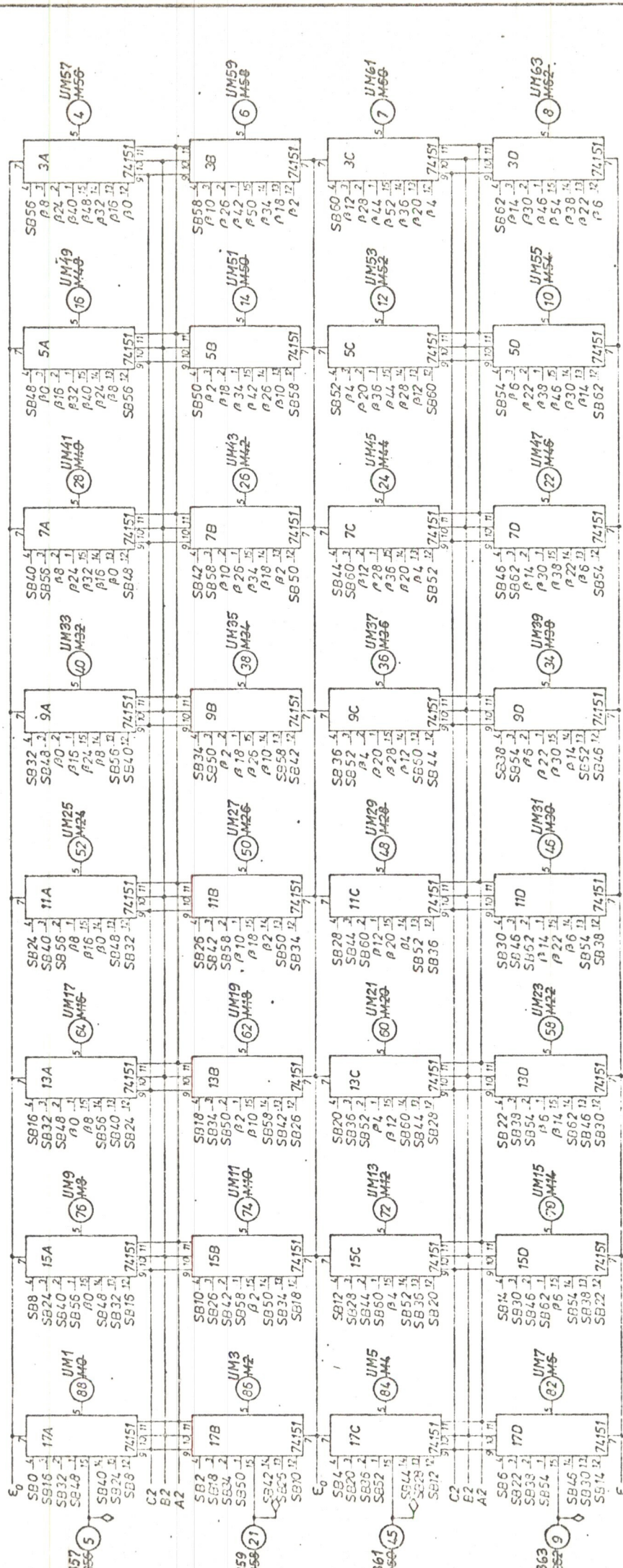
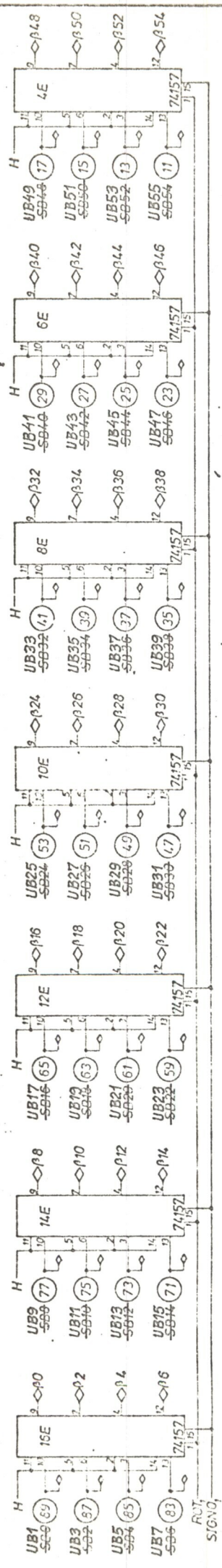


- 1 stk 7402
- 2 stk 745133
- 6 stk 7414
- 1 stk 74132
- 9 stk 74157
- 19 stk 92Torm

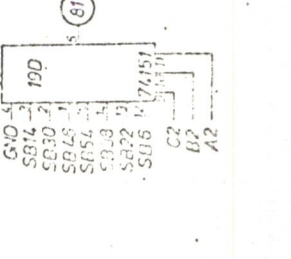
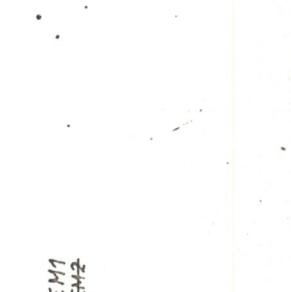
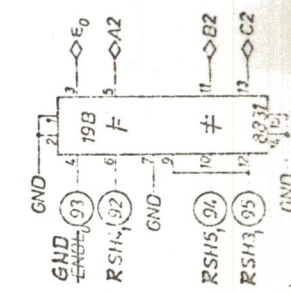
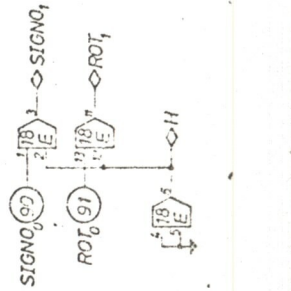
Algoritmt og forandr. f. c. t. e.	14.3.75	TU / BEO
Algoritmt	25.11.74	TU / BEO
Pl. pos. og form nr. påført	7.11.74	TU / BEO
Revisit		
DATA SELECTOR	3	Pos. C04
1513 E		
A/S NORSK DATA ELEKTRONIKK		1A31



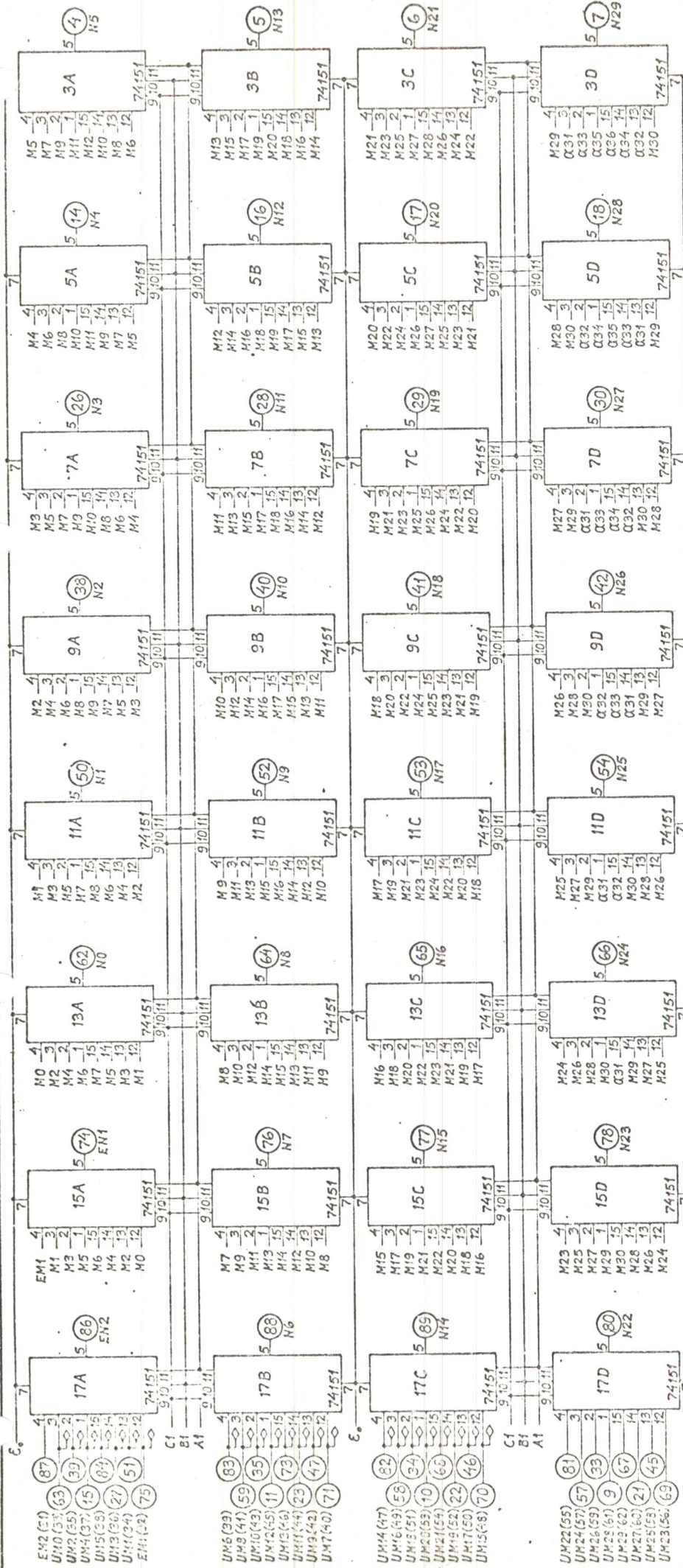




1 sik 7437
33 sik 74151
7 sik 74157
1 sik 8831
42 sik 71 term.

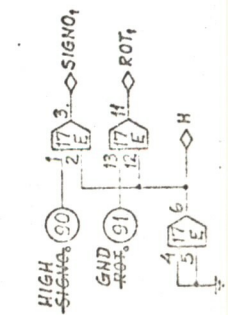
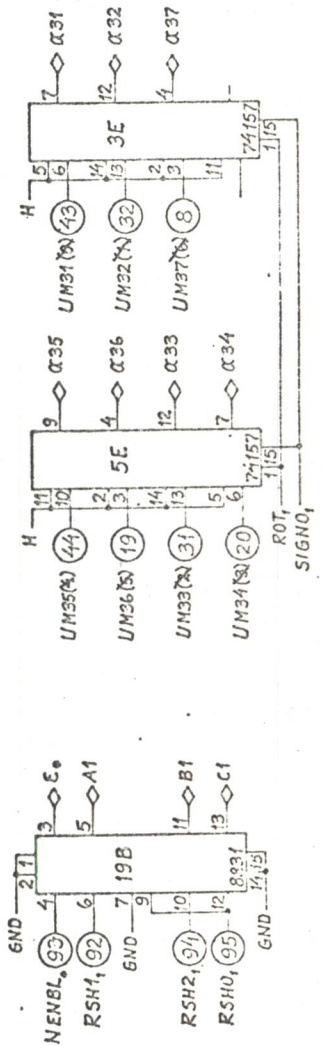
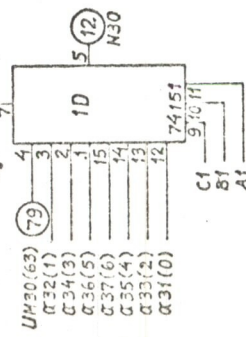


Term nr 43 endret til 45	6 11 74	TAA / 880
Pk pos + term. nr påført	23 27 74	TU / 880
Dato	23 27 74	TU / 880
Pos	23 27 74	TU / 880
SHIFT MATRIX A	1511A	
AIS NORSK DATA-ELEKTRONIKK	1A29	

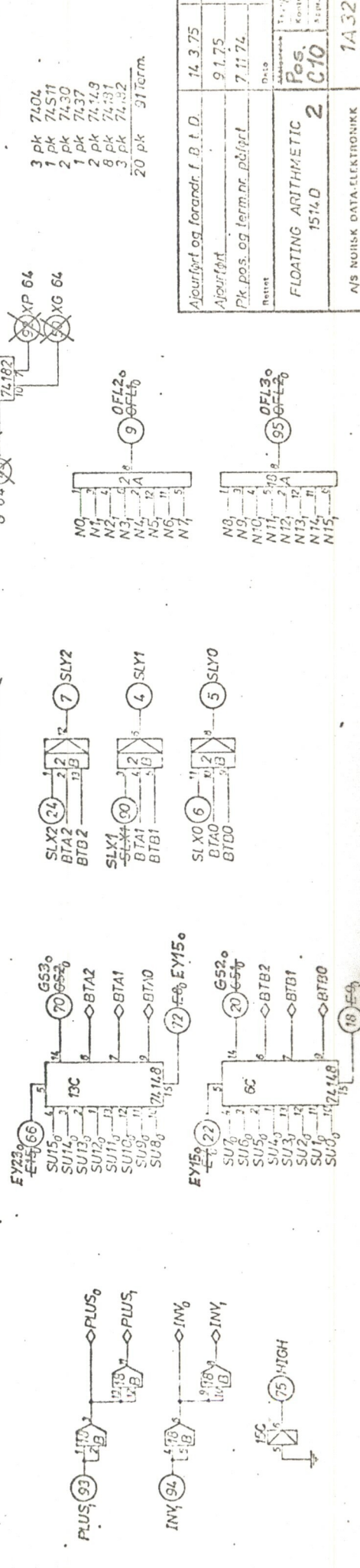
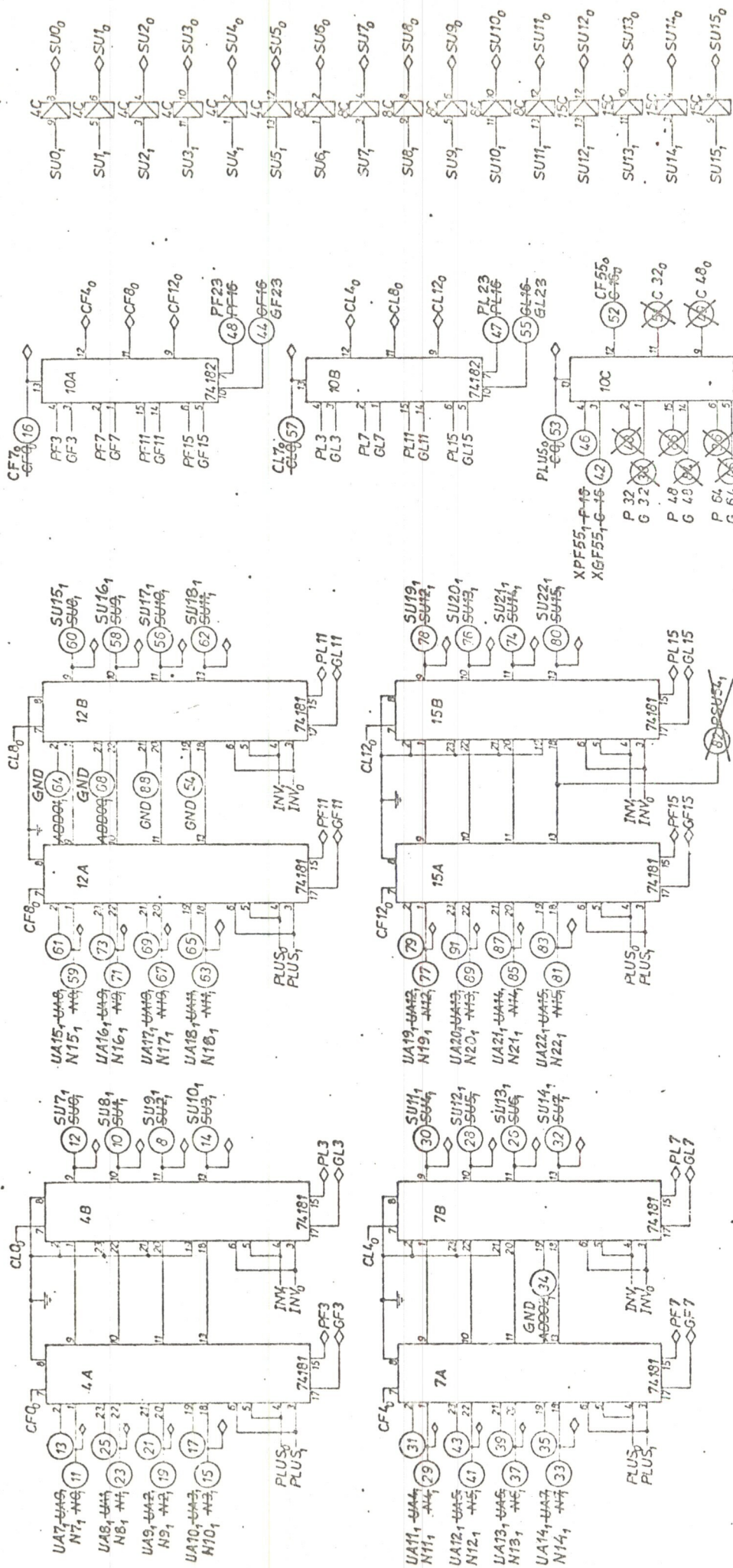


1pk 74151
33 " 74151
2 " 74157
1 " 8831
37pk

79 term.

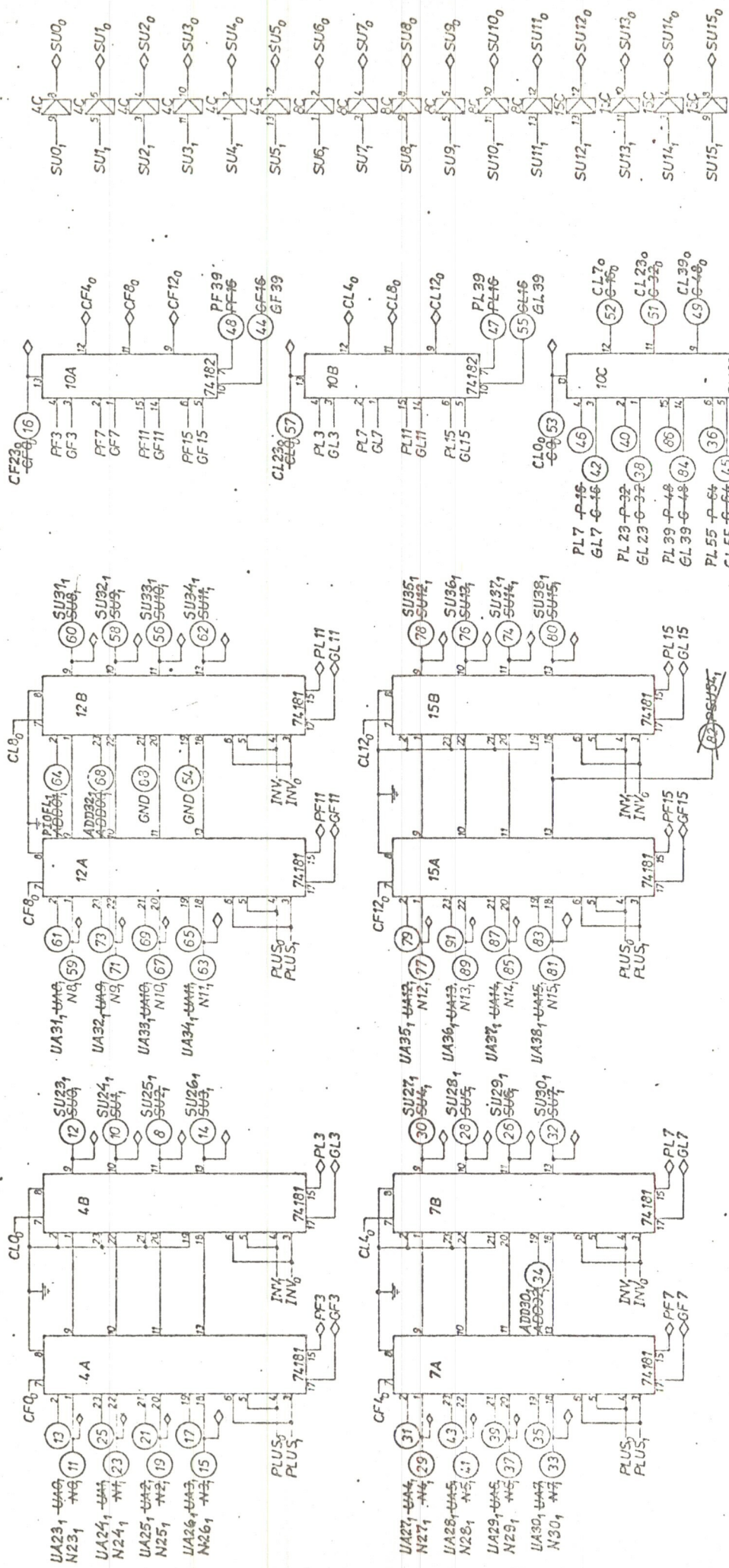


Påført polkepos og term nr	1. 10.74	Embl
Pos	CO7	Sign
SHIFT MATRIX B	1512.B	Techn. 21.6.74
1A30		Kont. TUI
		Apr.

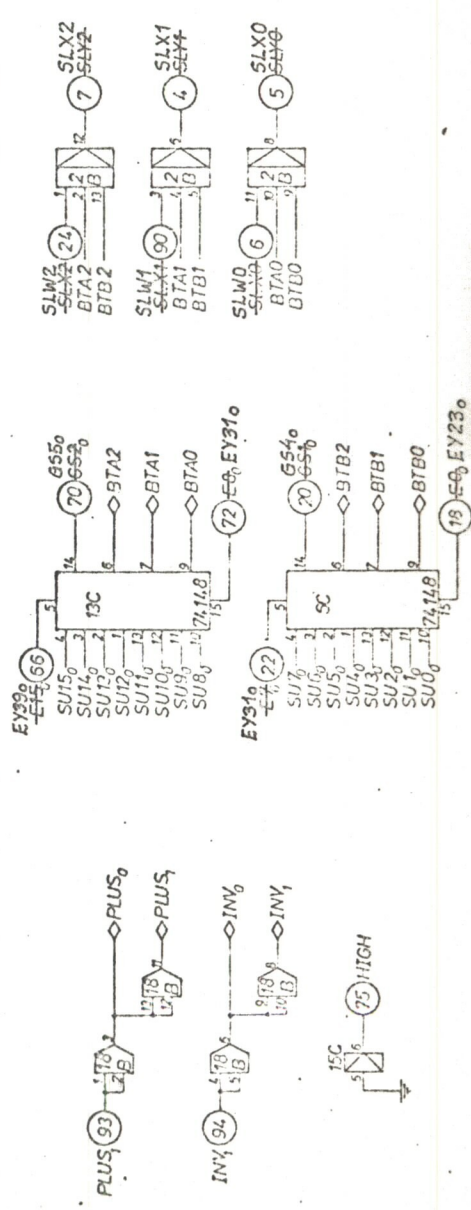
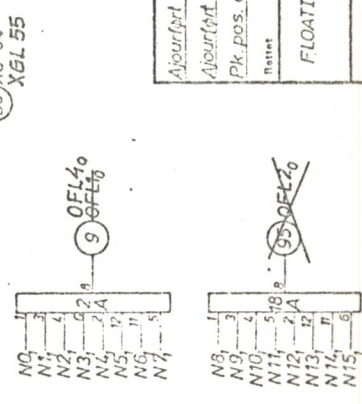


- 3 pk 7404
- 1 pk 7451
- 2 pk 7430
- 1 pk 7437
- 2 pk 7413
- 8 pk 7413
- 3 pk 7413
- 20 pk 91 arm.

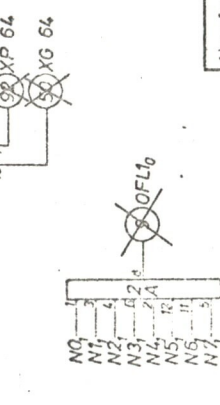
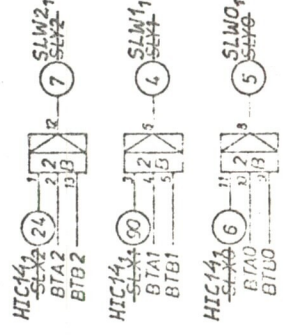
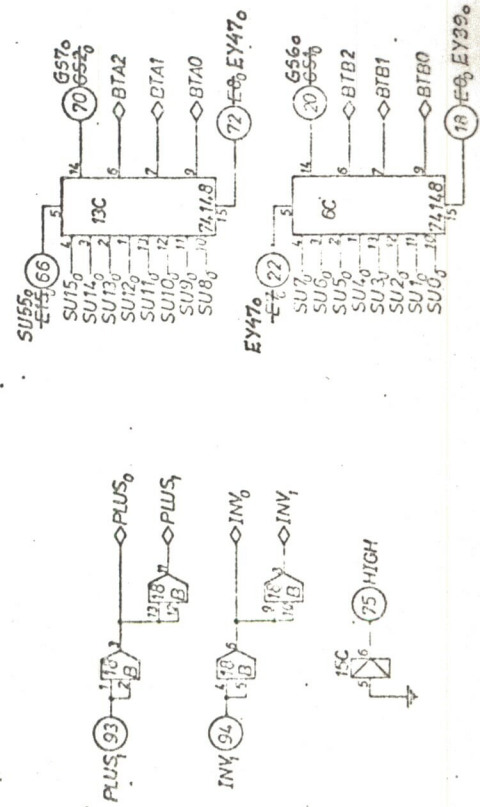
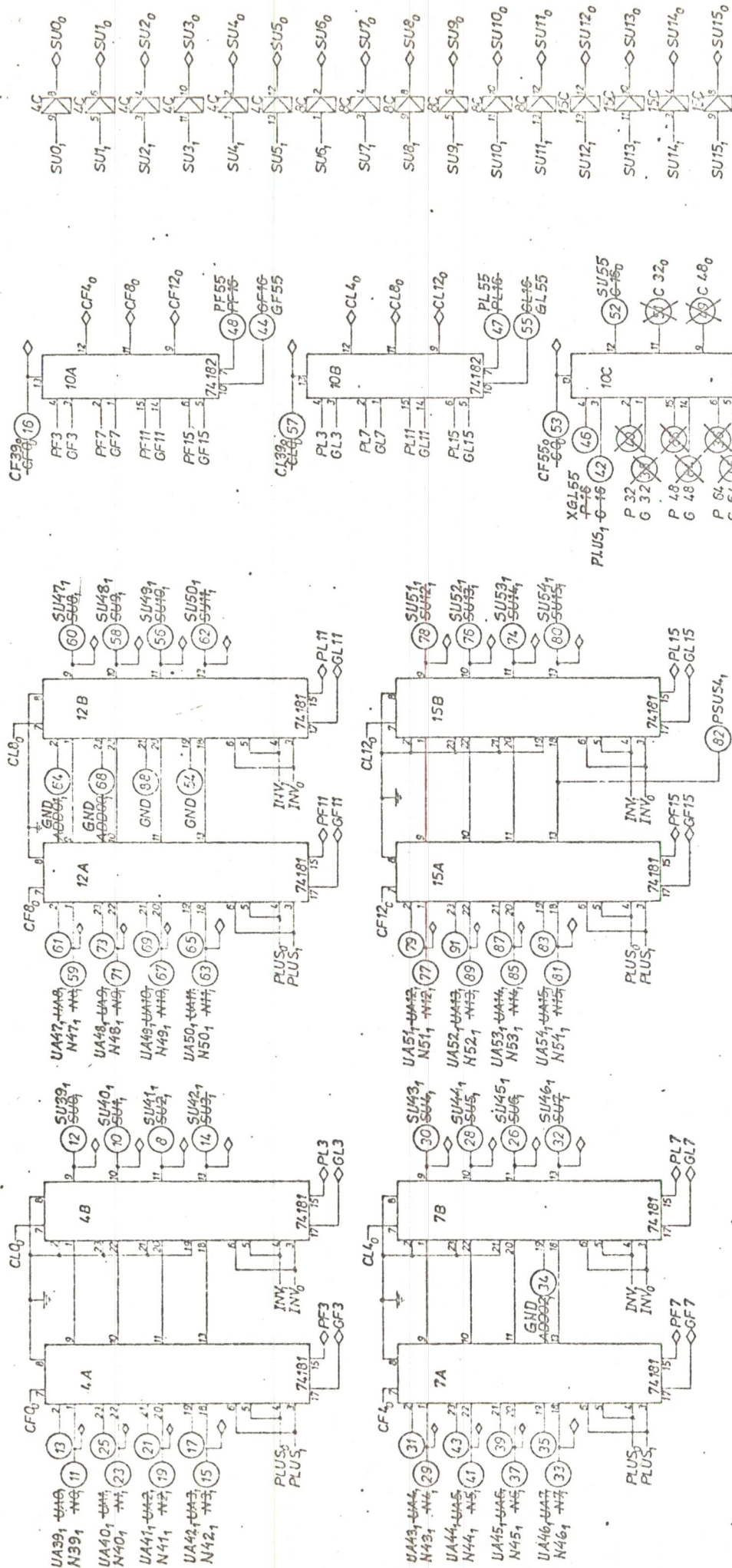
Ajourført og forandret i B. t. D.		14.3.75	TU/B80
Ajourført		9.1.75	TU/B80
Pk pos. og term.nr. påført		7.11.74	TU/B80
Rettest			
FLOATING ARITHMETIC		2	
1514.0			
Pos. C-10			
1A32			



- 3 pk 7404
- 1 pk 74511
- 2 pk 7430
- 1 pk 7437
- 2 pk 74148
- 8 pk 74181
- 3 pk 74182
- 20 pk 5170mm

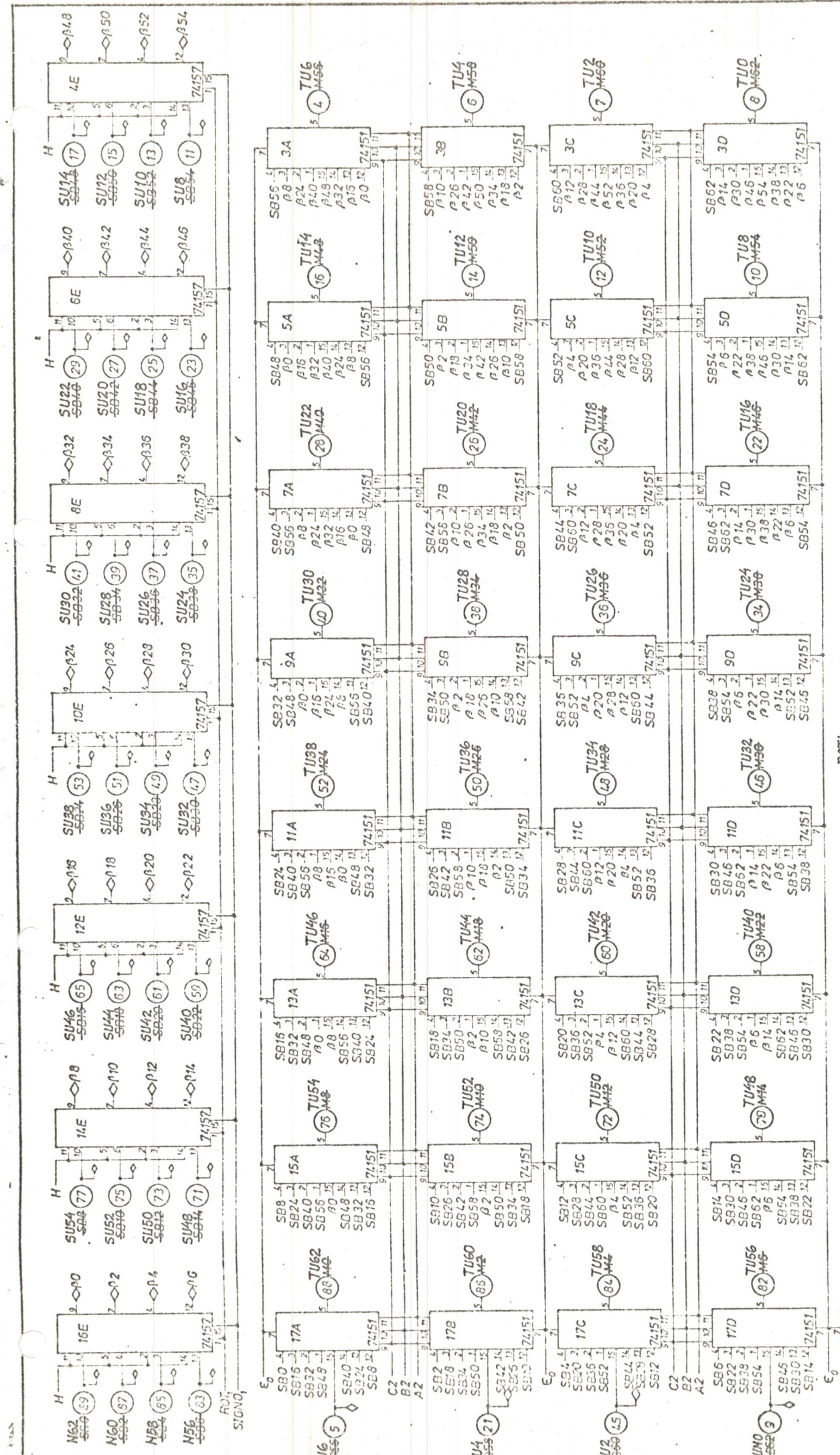


Ajourført og forandre i B.T.D.		14.3.75	TU/880
Ajourført		9.1.75	TU/880
pk. pos. og term nr. påført		7.11.74	TU/880
Placering		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	1A32
1514 D		Skriv	
FLOTTING ARITHMETIC		Pos. 3	

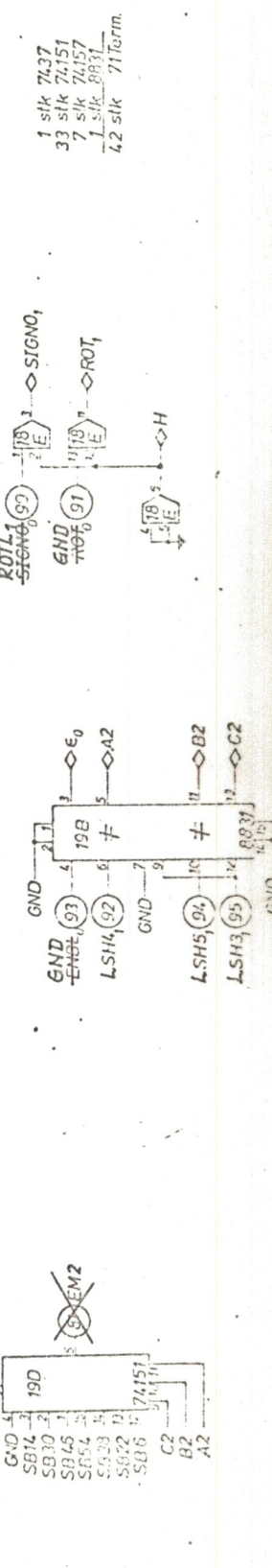


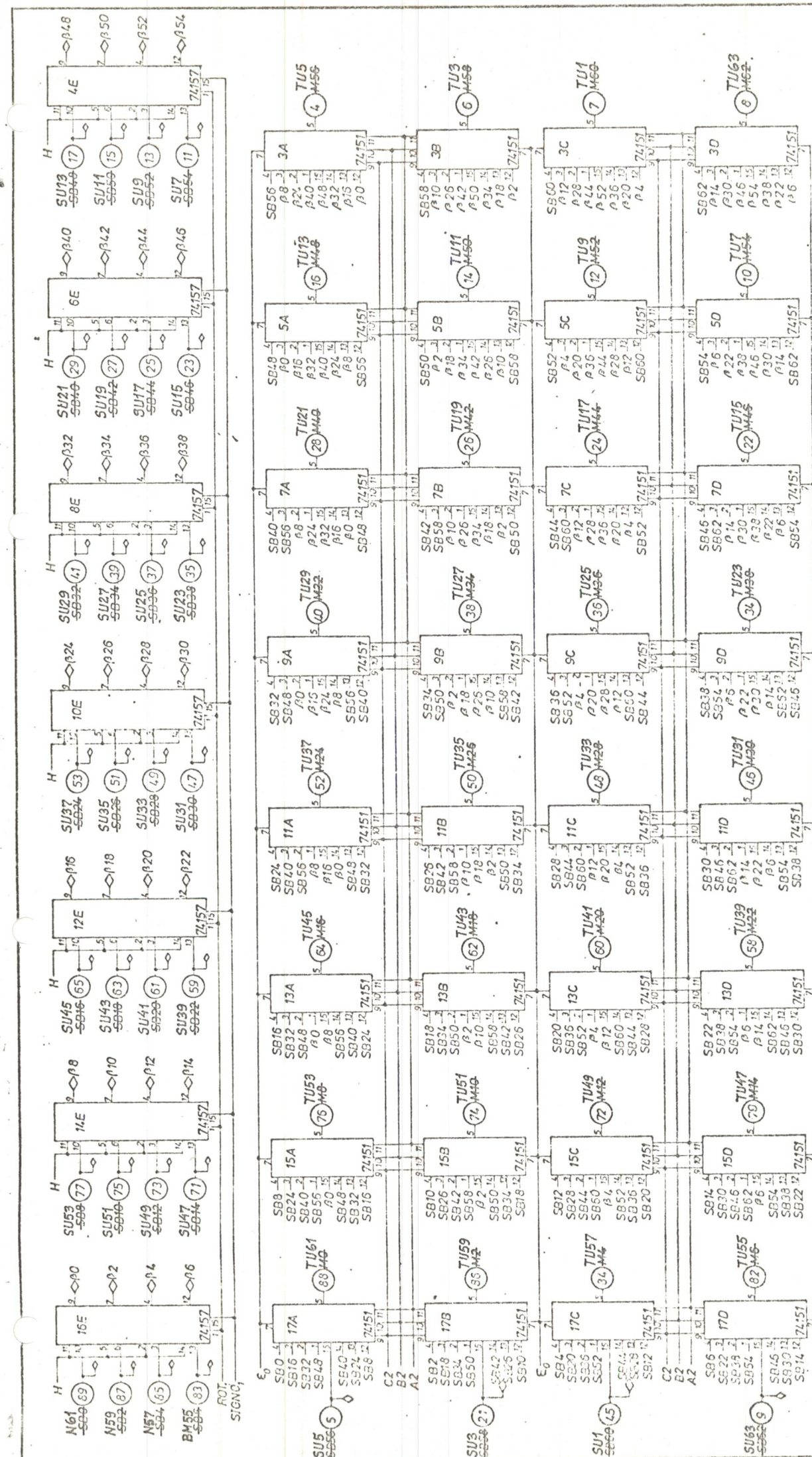
3 pk 7404
1 pk 74S11
2 pk 7430
1 pk 7437
2 pk 74148
8 pk 74148
3 pk 74182
20 pk 91Term.

Ajourført og forordr f. B. I. D.	TU / B80
Ajourført	TU / B80
Pk. pos. og form nr. påført	TU / B80
Pos.	Pos.
1514-D	1514-D
FLOATING ARITHMETIC	FLOATING ARITHMETIC
4	4
1A32	1A32

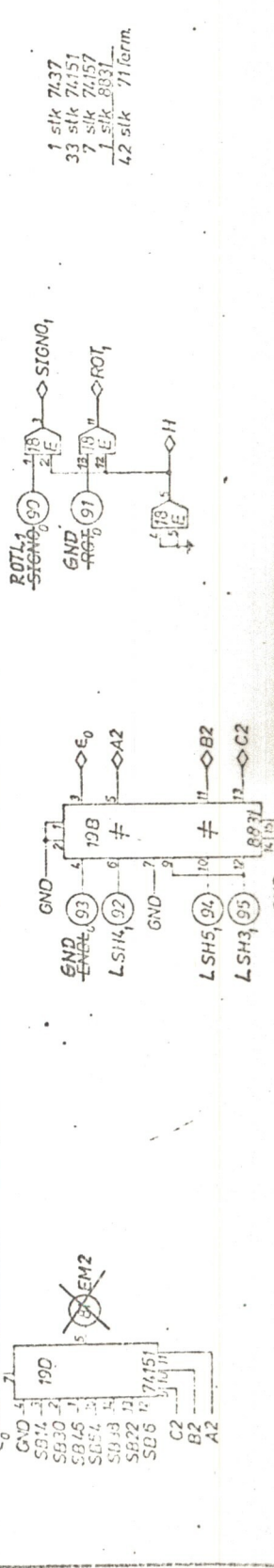


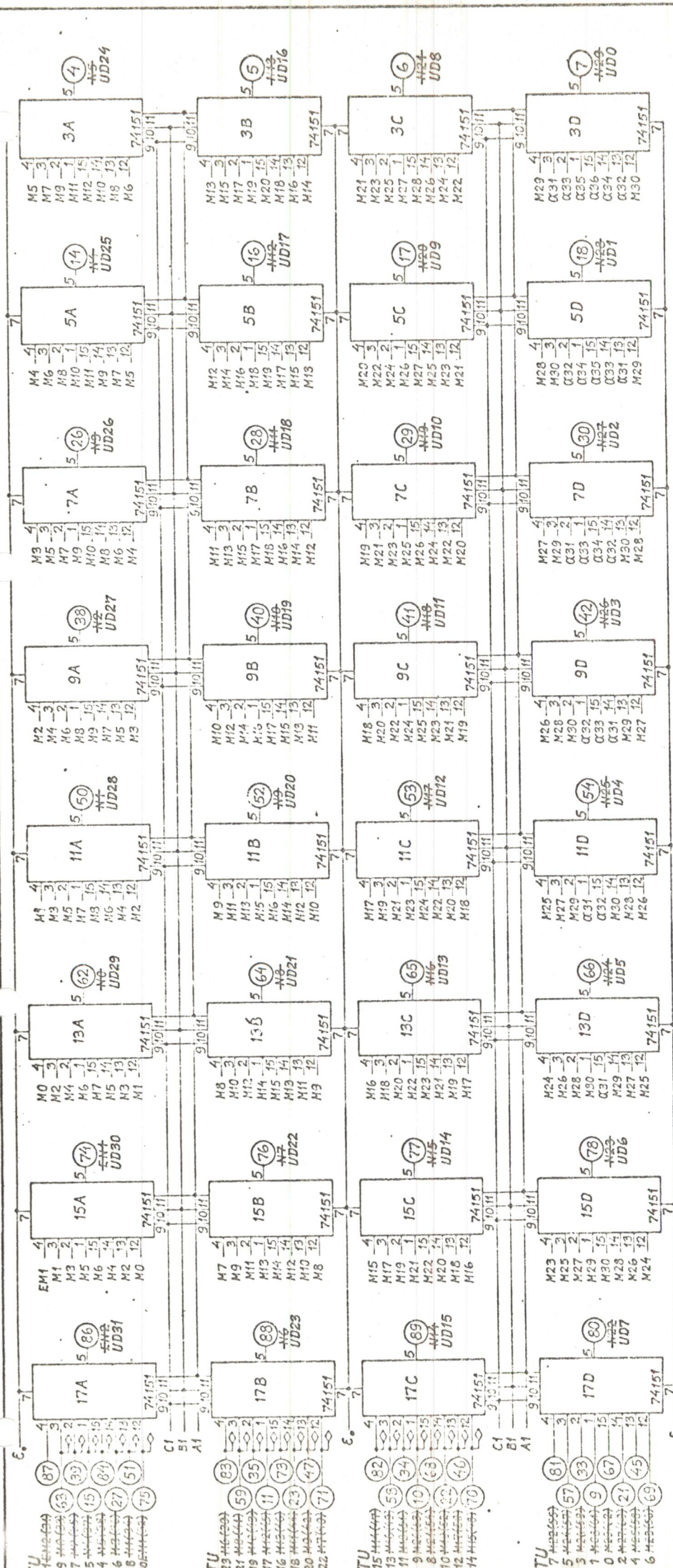
Termin nr 43 endret til 45	6 11 74	TAA / EBO
Pk pos + term nr. p. 6. 7. 1.	23 9. 74	TU / EBO
Pos. C13	3	1511A
SHIFT MATRIX A		
1A29		

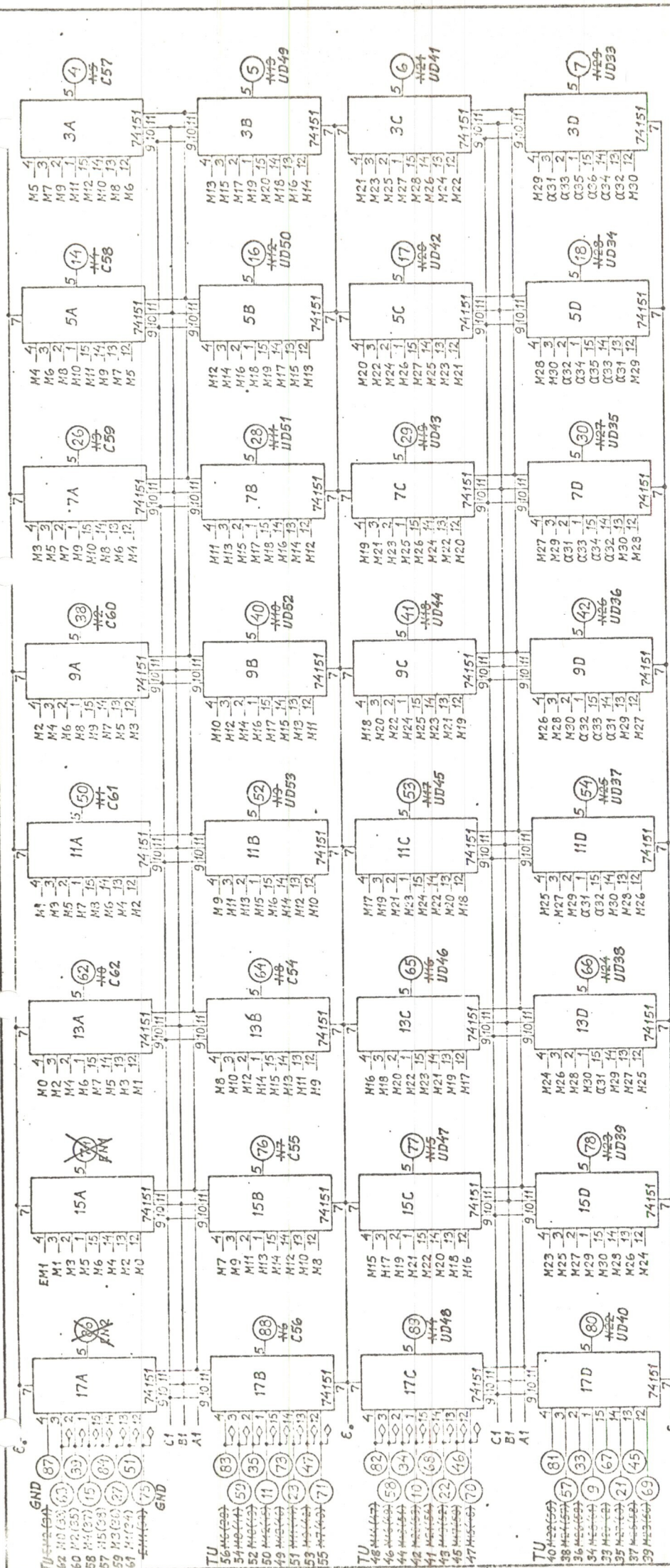




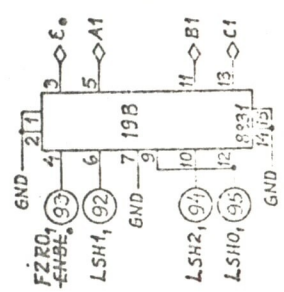
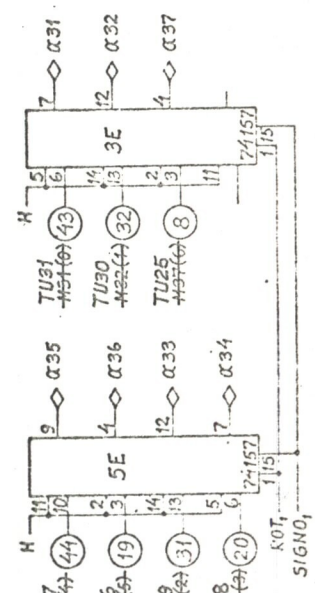
Terminert 23. endret til 45	6 11 74	TAA 1880
Pk. pos + term. nr. på kart	23. 9. 74	TU / BUO
Sheet	Date	Sup.
SHIFT MATRIX A	Po. 4	Kunne TU
1511 A	C14	Apn.
A/S NORSK DATA-ELEKTRONIKK	1A29	

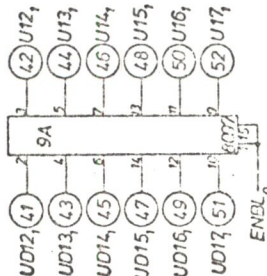
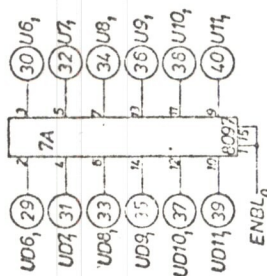
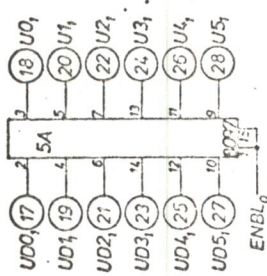
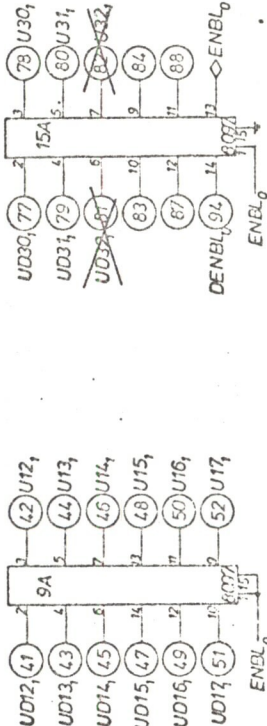
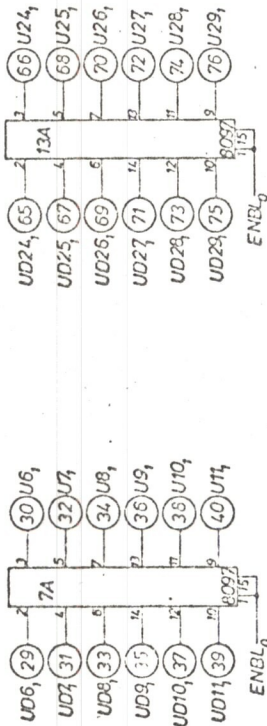
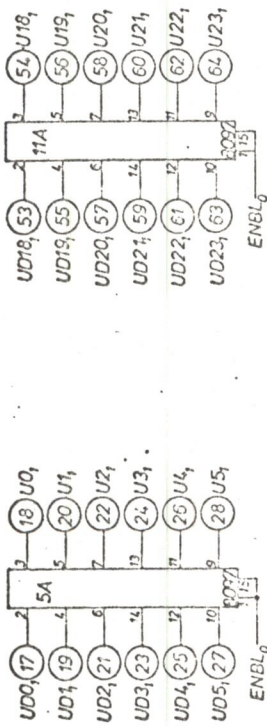






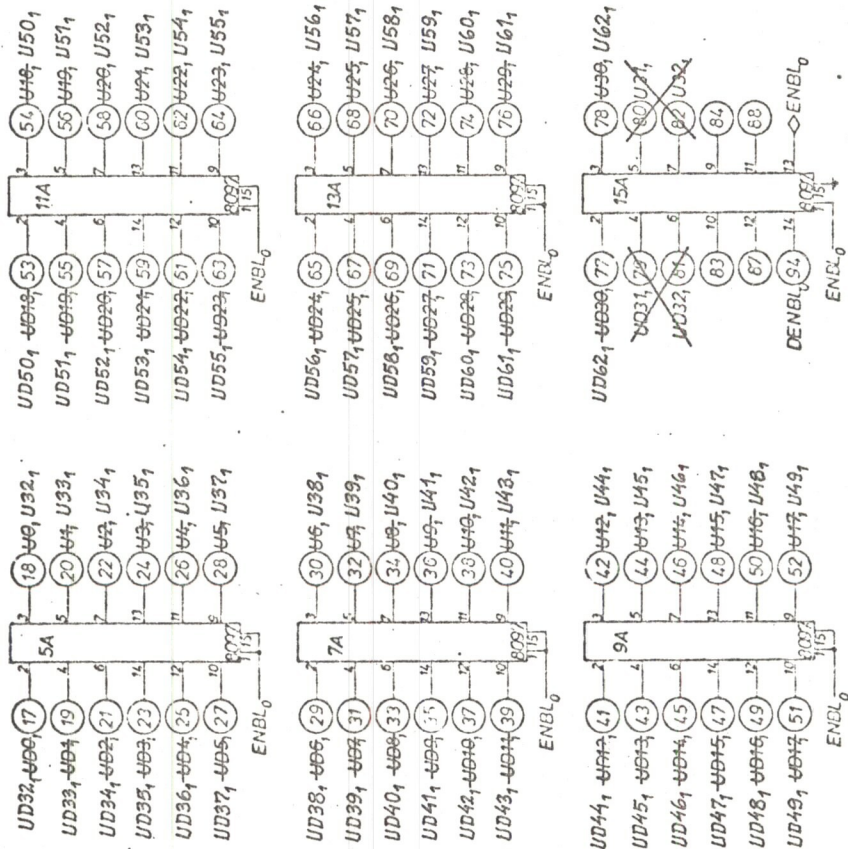
1 pk 7437
 33 - 74151
 2 - 74157
 1 - 8831
 37 pk
 79 term.





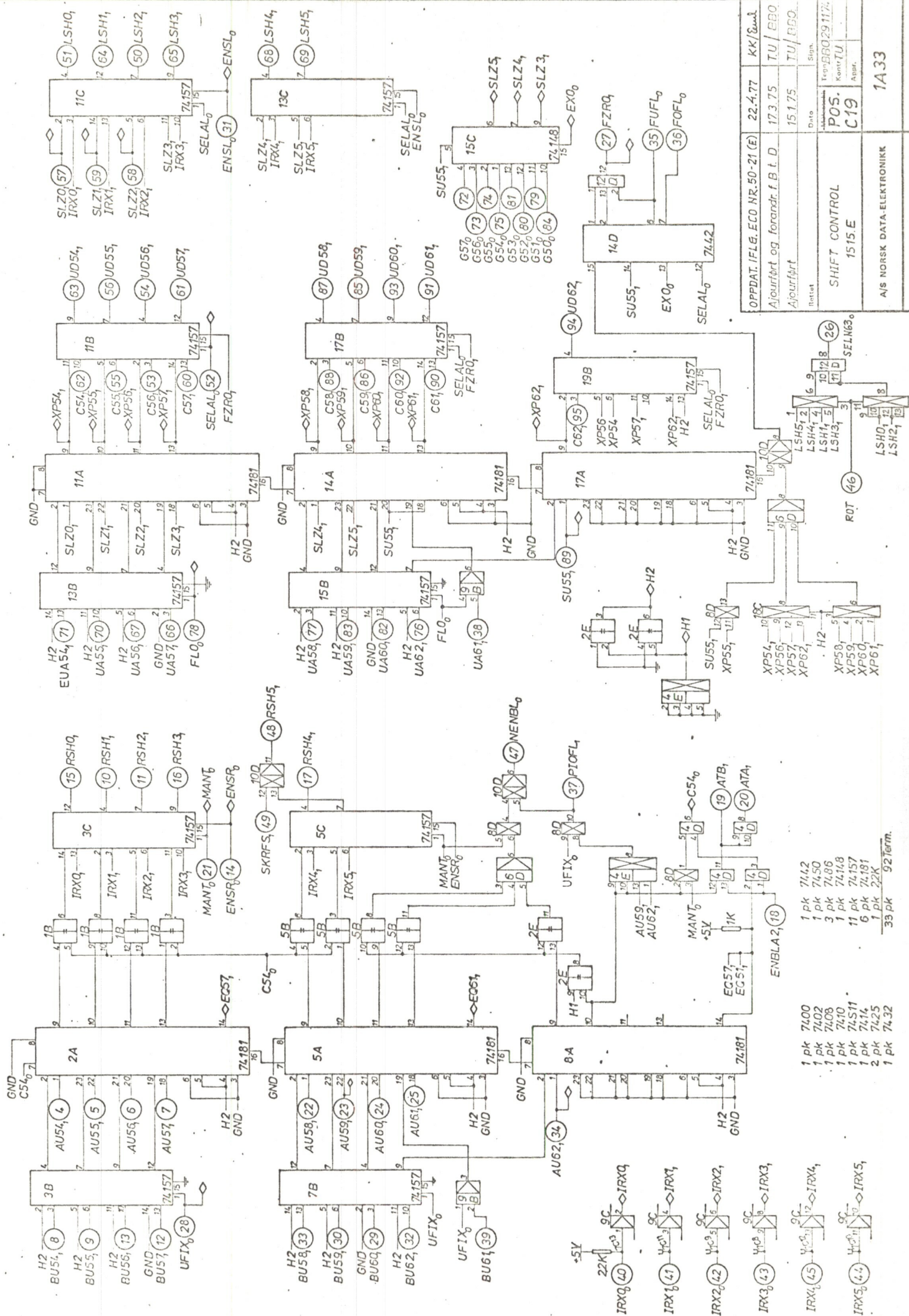
6 pk 8097 71 Term

Referat A. (Ingen rel. lsecl)	17.3.75	7.10.75
Term nr og pk pos påført	6.11.75	7.10.75
Beskrivelse	Pos. 1	7.10.75
DATA DUFFER 1517A	1517A	7.10.75
AJS NORSK DATA-ELEKTRONIKK	1A35	7.10.75



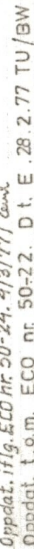
6 pk 8097 71 Term

Påført A. (Ingen rettelse)	17.3.75	TU/1985
Term nr og pk pos påført	6.11.76	TU/1985
Pos	2	C18
DATA BUFFER	1517 A	1517 A
A/S NORISK DATA ELEKTRONIKK	1A35	1A35

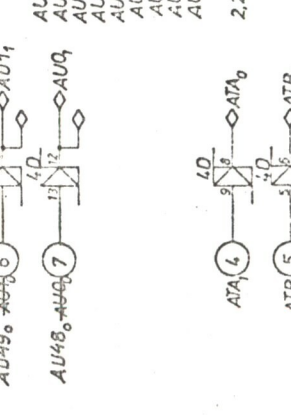
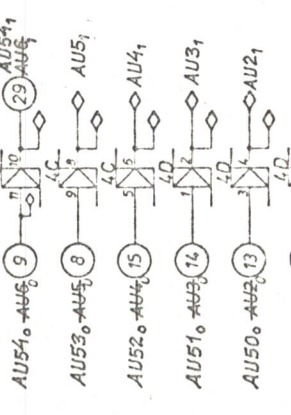
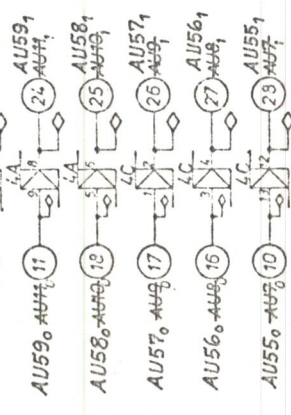
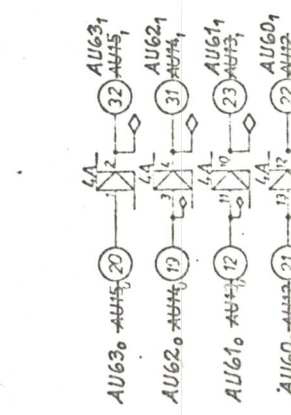
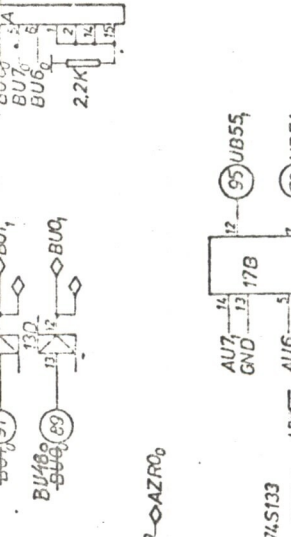
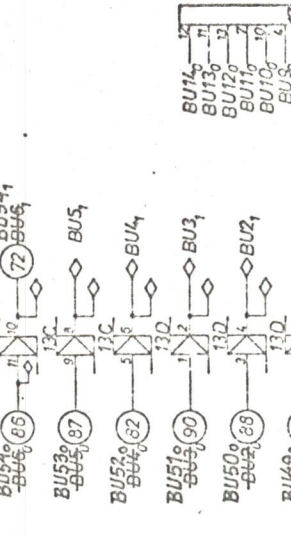
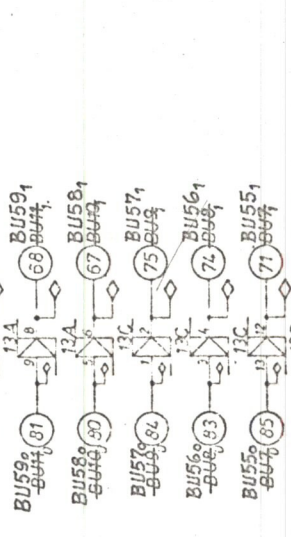
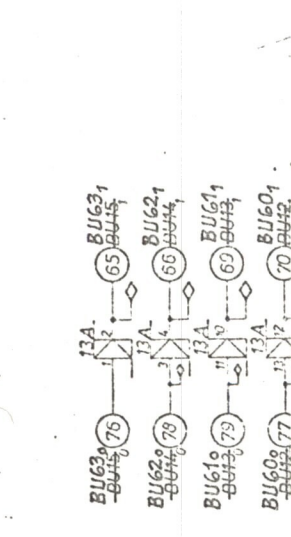
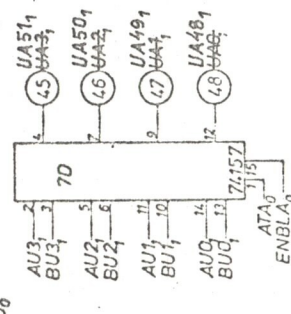
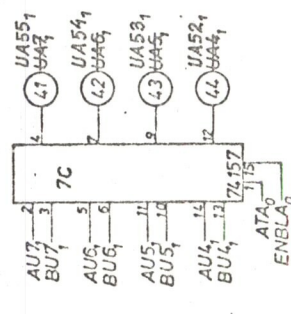
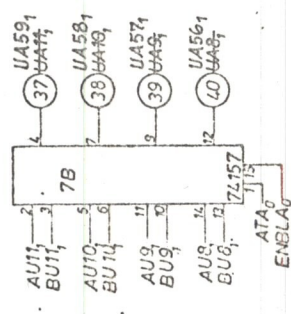
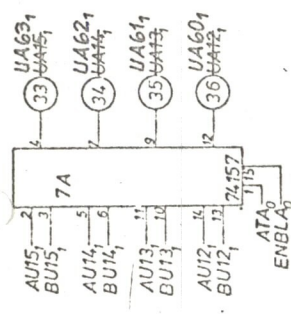
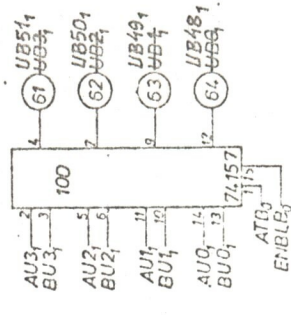
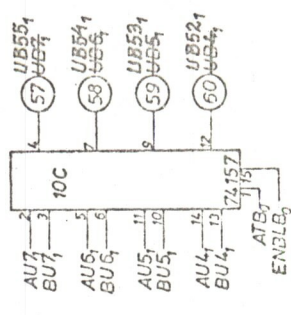
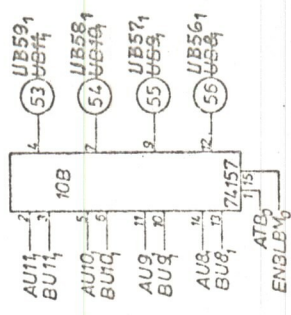
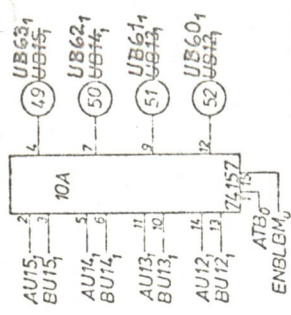


1 pk 7400
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 1 pk 7499
 1 pk 7500

OPPDAT. IFLB. ECO NR. 50-21 (E)	22.4.77	KK/8.8.8.8
Ajourført og forord. f. B. t. D.	17.3.75	TU / 8.8.8.8
Ajourført	15.1.75	TU / 8.8.8.8
Revisert		Sign.
Shift Control	1515.E	Pos. C19
A/S NORSK DATA-ELEKTRONIKK		1A33

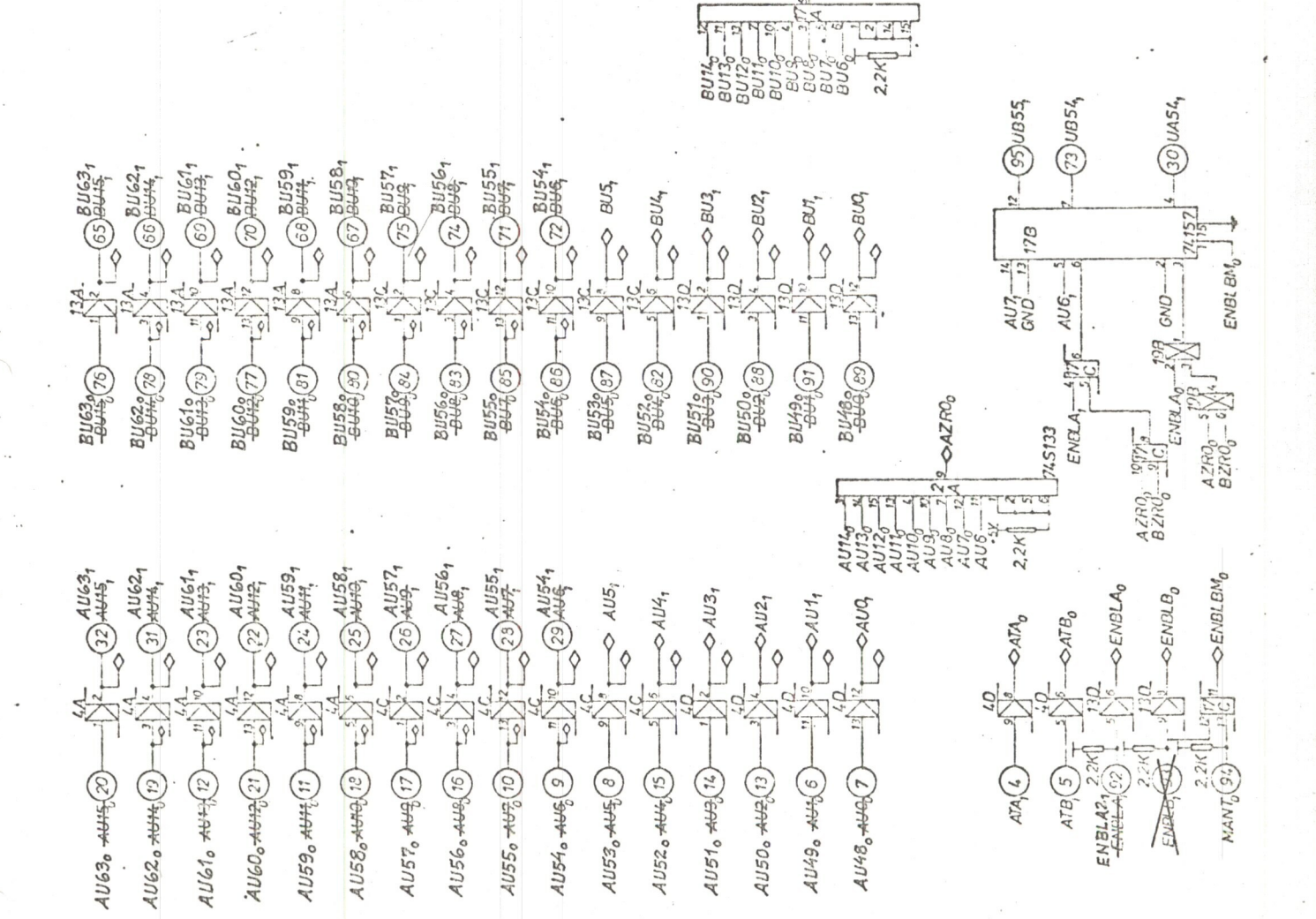


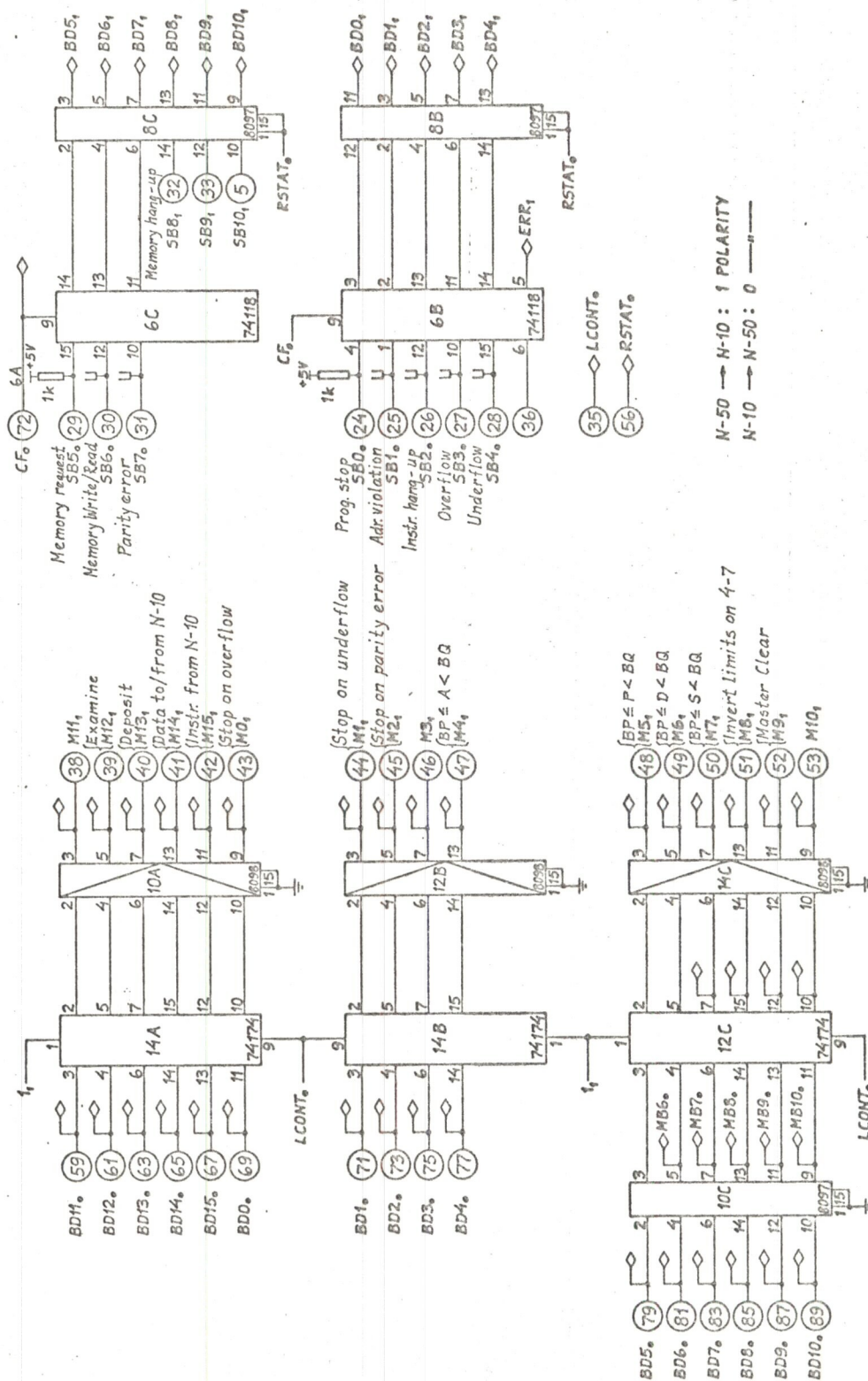
Oppdat. 17/9. ECO nr. 50-24. 9/3/11 *cont.*
Oppdat. 1 o.m. ECO nr. 50-22. D t. E. 28.2.77 TU/BW



Ajourfykt og ferundr. f.c.f.e.	14.3.75	TU / DBO
Ajourfykt	25.11.74	TU / DBO
Plk pos. og term nr. pålæst	7.11.74	TU / DBO
Rettet	Dato	Sign.
DATA SELECTOR	4	Pos. 621
1513 E		Post. 111
		1A31

- 1 stk 7402
- 2 stk 74S133
- 6 stk 7414
- 1 stk 74132
- 9 stk 74157
- 19 stk 92 term





2nd 74118
3 - 74174
3 - 8097
3 - 8098
HPE

N-50 $\rightarrow$ N-10 : 1 POLARITY
N-10 $\rightarrow$ N-50 : 0

Author:	28.7.75	TU/Encl	Sign.	20.8.74
Revised			Appr.	
DEVICE REGISTERS				
1531 (Print 1013/IV)				
A/S NORSK DATA-ELEKTRONIKK				
1A49				



A/S NORSK DATA- ELEKTRONIKK

Title

MEMORY N-50

Drawing no.

NO.	SIGNAL	POLARITY	N-10 MULTIPORT MEMORY	POS. N-50 C32	N-50	
1	MA15	0	BERG 95	45	B10.88	
	"	1	" 94	44	B10.83	
2	MA14	0	" 93	43	B10.81	
	"	1	" 92	42	B10.82	
3	MA13	0	" 91	41	B10.94	
	"	1	" 90	40	B10.66	
4	MA12	0	" 89	39	B10.89	
	"	1	" 88	38	B10.77	
5	MA11	0	" 87	37	B7.88	
	"	1	" 86	36	B7.83	
6	MA10	0	" 85	35	B7.81	
	"	1	" 84	34	B7.82	
7	MA9	0	" 83	33	B7.94	
	"	1	" 82	32	B7.66	
8	MA8	0	" 81	31	B7.89	
	"	1	" 80	30	B7.77	
9	MA7	0	" 79	29	B4.88	
	"	1	" 78	28	B4.83	
10	MA6	0	" 77	27	B4.81	
	"	1	" 76	26	B4.82	
11	MA5	0	" 75	25	B4.94	
	"	1	" 74	24	B4.66	
12	MA4	0	" 73	23	B4.89	
	"	1	" 72	22	B4.77	
13	MA3	0	" 71	21	B1.88	
	"	1	" 70	20	B1.83	
14	MA2	0	" 69	19	B1.81	
	"	1	" 68	18	B1.82	
15	MA1	0	" 67	17	B1.94	
	"	1	" 66	16	B1.66	
16	MA0	0	" 65	15	B1.89	
	"	1	" 64	14	B1.77	
17	MA17	0	" 63	13	B13.94	
	"	1	" 62	12	B13.66	
18	MA16	0	" 61	11	B13.89	
	"	1	" 60	10	B13.77	
19	WRM	0	" 59	9	B31.23	
	"	1	" 58	8	B31.24	
20	RQM	0	" 57	7	B31.41	
	"	1	" 56	6	B31.42	

DRAWN BY PK/eml

Remarks

Replacement for

Date

APPROVED BY

ADDRESS

Replaced by

Date

DATE 5/12/75

A/S NORSK DATA- ELEKTRONIKK

Title

MEMORY N-50

Drawing no.

NO.	SIGNAL	POLARITY	N-10 MULTI-PORT MEMORY	POS. N-50 C28	N-50	
1	MD31	0	BERG 95	45	B22.58	
	"	1	" 94	44	B22.59	
2	MD30	0	" 93	43	B22.50	
	"	1	" 92	42	B22.49	
3	MD29	0	" 91	41	B22.46	
	"	1	" 90	40	B22.45	
4	MD28	0	" 89	39	B22.41	
	"	1	" 88	38	B22.51	
5	MD27	0	" 87	37	B19.58	
	"	1	" 86	36	B19.59	
6	MD26	0	" 85	35	B19.50	
	"	1	" 84	34	B19.49	
7	MD25	0	" 83	33	B19.46	
	"	1	" 82	32	B19.45	
8	MD24	0	" 81	31	B19.41	
	"	1	" 80	30	B19.51	
9	MD23	0	" 79	29	B16.58	
	"	1	" 78	28	B16.59	
10	MD22	0	" 77	27	B16.50	
	"	1	" 76	26	B16.49	
11	MD21	0	" 75	25	B16.46	
	"	1	" 74	24	B16.45	
12	MD20	0	" 73	23	B16.41	
	"	1	" 72	22	B16.51	
13	MD19	0	" 71	21	B13.58	
	"	1	" 70	20	B13.59	
14	MD18	0	" 69	19	B13.50	
	"	1	" 68	18	B13.49	
15	MD17	0	" 67	17	B13.46	
	"	1	" 66	16	B13.45	
16	MD16	0	" 65	15	B13.41	
	"	1	" 64	14	B13.51	
17	PAR 4 (MD33)	0	" 63	13	B25.47	
	"	1	" 62	12	B25.46	
18	PAR 3 (MD32)	0	" 61	11	B25.45	
	"	1	" 60	10	B25.42	
19	AR2	0	" 59	9	B32.92	
	"	1	" 58	8	B32.93	
20	DR2	0	" 57	7	B32.88	
	"	1	" 56	6	B32.89	

DRAWN BY PK/eml

Remarks

Replacement for Date

APPROVED BY

DATA

Replaced by

Date

DATE 5/12/75

16 - 31

A/S NORSK DATA- ELEKTRONIKK

Title

MEMORY N-50

Drawing no.

NO.	SIGNAL	POLARITY	N-10 MULTI-PORT MEMORY	POS. N-50 C30	N-50	
1	MD15	0	BERG 95	45	B10.58	
	"	1	" 94	44	B10.59	
2	MD14	0	" 93	43	B10.50	
	"	1	" 92	42	B10.49	
3	MD13	0	" 91	41	B10.46	
	"	1	" 90	40	B10.45	
4	MD12	0	" 89	39	B10.41	
	"	1	" 88	38	B10.51	
5	MD11	0	" 87	37	B7.58	
	"	1	" 86	36	B7.59	
6	MD10	0	" 85	35	B7.50	
	"	1	" 84	34	B7.49	
7	MD9	0	" 83	33	B7.46	
	"	1	" 82	32	B7.45	
8	MD8	0	" 81	31	B7.41	
	"	1	" 80	30	B7.51	
9	MD7	0	" 79	29	B4.58	
	"	1	" 78	28	B4.59	
10	MD6	0	" 77	27	B4.50	
	"	1	" 76	26	B4.49	
11	MD5	0	" 75	25	B4.46	
	"	1	" 74	24	B4.45	
12	MD4	0	" 73	23	B4.41	
	"	1	" 72	22	B4.51	
13	MD3	0	" 71	21	B1.58	
	"	1	" 70	20	B1.59	
14	MD2	0	" 69	19	B1.50	
	"	1	" 68	18	B1.49	
15	MD1	0	" 67	17	B1.46	
	"	1	" 66	16	B1.45	
16	MD0	0	" 65	15	B1.41	
	"	1	" 64	14	B1.51	
17	PAR 2 (MD17)	0	" 63	13	B25.54	
	"	1	" 62	12	B25.57	
18	PAR 1 (MD16)	0	" 61	11	B25.51	
	"	1	" 60	10	B25.48	
19	AR1	0	" 59	9	B32.94	
	"	1	" 58	8	B32.95	
20	DR1	0	" 57	7	B32.90	
	"	1	" 56	6	B32.91	

DRAWN BY PK/eml

Remarks

Replacement for Date

APPROVED BY

DATA

Replaced by Date

DATE 5/12/75

0 - 15

A/S NORSK DATA- ELEKTRONIKK

Title

N-10 ↔ N-50 I/O ADDRESS
(TO N-10 1532)

Drawing no.

NO.	SIGNAL	POLARITY	PLUG BERG (CPU POS.)	POS. N-50 C29		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11	M5	0	C26 75	BERG 75		
	M5	1	" 74	" 74		
12	M4	0	" 73	" 73		
	M4	1	" 72	" 72		
13	M3	0	" 71	" 71		
	M3	1	" 70	" 70		
14	M2	0	" 69	" 69		
	M2	1	" 68	" 68		
15	M1	0	" 67	" 67		
	M1	1	" 66	" 66		
16	M0	0	" 65	" 65		
	M0	1	" 64	" 64		
17						
18						
19						
20						

DRAWN BY PK/eml

Remarks

Replacement for

Date

APPROVED BY

Replaced by

Date

DATE 5/12/75

A/S NORSK DATA- ELEKTRONIKK

Title

N-10 - N-50 I/O DATA
(TO N-10 1071)

Drawing no.

NO.	SIGNAL	POLARITY	PLUG BERG (CPU POS.)	POS. N-50 C31	N-50	
1	D15	0	BERG 95	BERG 95	C24 95	
	"	1	" 94	" 94	" 94	
2	D14	0	" 93	" 93	" 93	
	"	1	" 92	" 92	" 92	
3	D13	0	" 91	" 91	" 91	
	"	1	" 90	" 90	" 90	
4	D12	0	" 89	" 89	" 89	
	"	1	" 88	" 88	" 88	
5	D11	0	" 87	" 87	" 87	
	"	1	" 86	" 86	" 86	
6	D10	0	" 85	" 85	" 85	
	"	1	" 84	" 84	" 84	
7	D9	0	" 83	" 83	" 83	
	"	1	" 82	" 82	" 82	
8	D8	0	" 81	" 81	" 81	
	"	1	" 80	" 80	" 80	
9	D7	0	" 79	" 79	" 79	
	"	1	" 78	" 78	" 78	
10	D6	0	" 77	" 77	" 77	
	"	1	" 76	" 76	" 76	
11	D5	0	" 75	" 75	" 75	
	"	1	" 74	" 74	" 74	
12	D4	0	" 73	" 73	" 73	
	"	1	" 72	" 72	" 72	
13	D3	0	" 71	" 71	" 71	
	"	1	" 70	" 70	" 70	
14	D2	0	" 69	" 69	" 69	
	"	1	" 68	" 68	" 68	
15	D1	0	" 67	" 67	" 67	
	"	1	" 66	" 66	" 66	
16	D0	0	" 65	" 65	" 65	
	"	1	" 64	" 64	" 64	
17	LSTOP	0	" 63	" 63	C26 81	
	"	1	" 62	" 62	" 80	
18	LSTR	0	" 61	" 61	" 79	
	"	1	" 60	" 60	" 78	
19	LDEVS	0	" 59	" 59	" 77	
	"	1	" 58	" 58	" 76	
20	LDEVC	0	" 57	" 57	B31.09	
	"	1	" 56	" 56	B31.10	

DRAWN BY PK/eml

Remarks

Replacement for

Date

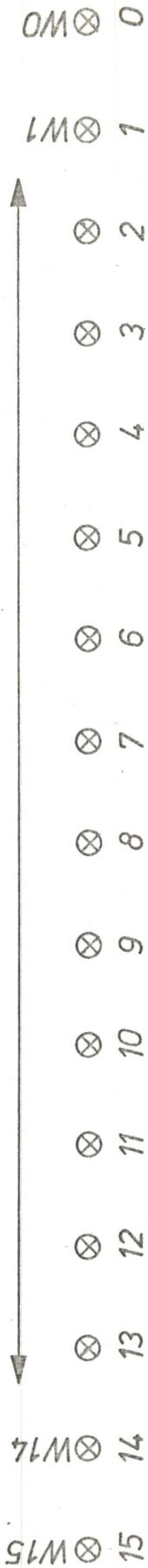
APPROVED BY

Replaced by

Date

DATE 5/12/75

Enleder fra hver lampe,
fellespunkt til +5V

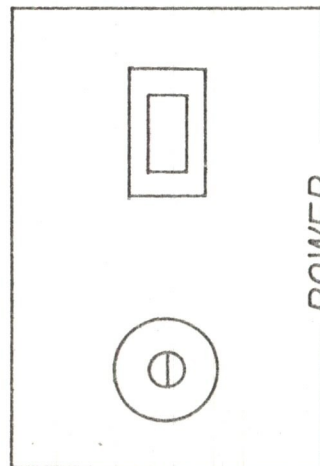


ACTIVE ADDRESS (BLOCK NO.)



BYTE

PARITY CHECK



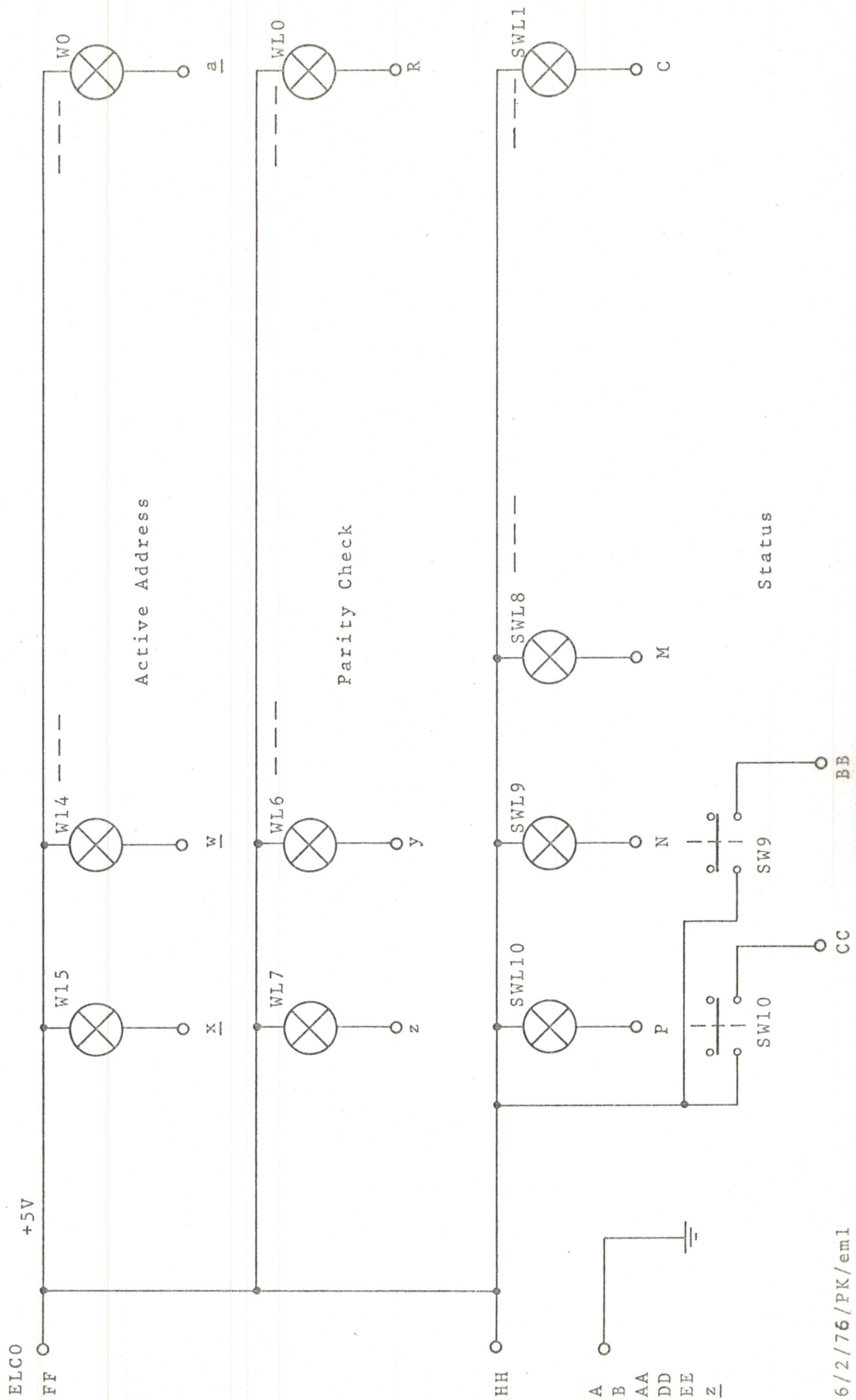
POWER

STATUS

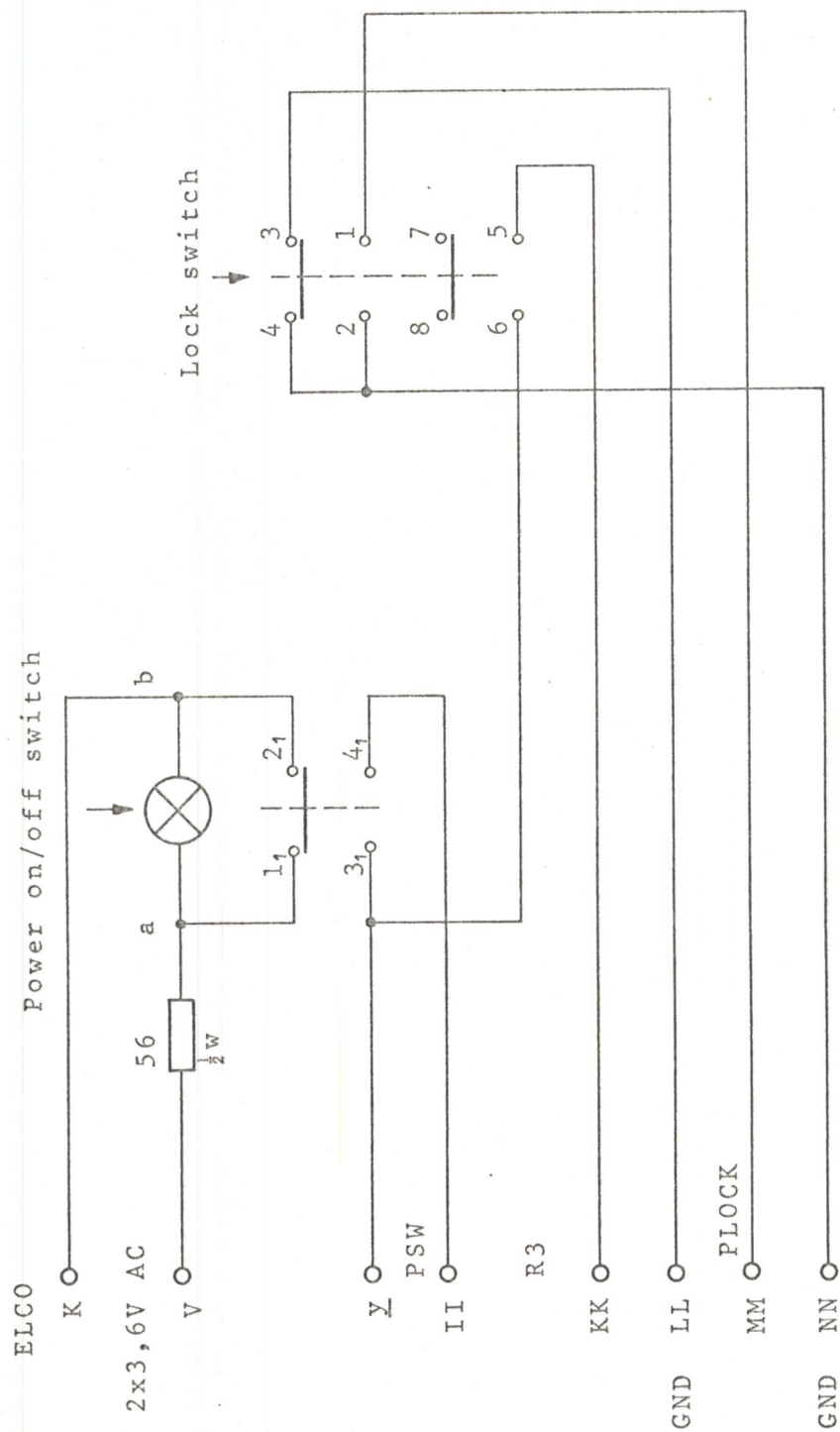
Lampe + bryter

I disse benyttes bare lampen.
Enkeltleder ut og fellespunkt til +5V

NORD-50 OPR. PANEL



NORD-50 POWER ON/OFF LOCK SWITCH



A/S NORSK DATA-ELEKTRONIKK		Title NORD-50 OPERATOR PANEL		Drawing no.		
NORD-50 POS. B32		ELCO PLUG		SIGNAL NAME		
4/5	A/B			GND/GND		
6/7	C/D			SWL1/SWL2		
8/9	E/F			SWL3/SWL4		
10/11	H/J			SWL5/SWL6		
12/13	L/M			SWL7/SWL8		
14/15	N/P			SWL9/SWL10		
16/17	R/S			WL0/WL1		
18/19	T/U			WL 2/WL3		
20/21	W/X			WL4/WL5		
22/23	Y/Z			WL6/WL7		
24/25	a/b			W0/W1		
26/27	c/d			W2/W3		
28/29	k/l			W4/W5		
30/31	m/n			W6/W7		
32/33	p/r			W8/W9		
34/35	s/t			W10/W11		
36/37	u/v			W12/W13		
38/39	w/x			W14/W15		
40/41	Z/AA			GND		
42/43	BB/CC			SW9/SW10		
44/45	DD/EE			GND		
	FF/HH			+5V COMMON		
	K/V			2 x 3,6V AC		
	y /JJ			PSW		
	KK/JJ			R3		
	LL/NN			GND		
DRAWN BY		Remarks		Replacement for		Date
APPROVED BY				Replaced by		Date
DATE						

To power box

