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FIELD MAINTENANCE PRINT SET

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UNIT VARIATIONS
COVERED BY THIS
PRINT SET

RXT II

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00688

REVISIONS	REV		USED ON OPTION/MODEL	DRN.	DATE	TITLE: FIELD MAINT. PRINT SET																														
	CHG. NO.			PDT 11/150	<i>M. Morin</i>											11 Aug 78																				
	DATE				CHK'D	DATE																														
					<i>EW</i>	18 Aug 78																														
					PROJ. ENG.	DATE																														
					<i>John Cys</i>	9-24-78																														
					FIELD SERV.	DATE																														
			<i>D. McNeil</i>	9-25-78																																
SHEET 1 OF 1			<table><tr><td>SIZE</td><td>CODE</td><td colspan="4">NUMBER</td><td>REV.</td></tr><tr><td>B</td><td>TC</td><td colspan="4">RXT11-0-1</td><td></td></tr><tr><td colspan="2">DIST.</td><td></td><td></td><td></td><td></td><td></td></tr></table>													SIZE	CODE	NUMBER				REV.	B	TC	RXT11-0-1					DIST.						
SIZE	CODE	NUMBER				REV.																														
B	TC	RXT11-0-1																																		
DIST.																																				

DRB 124

MR

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DRAWING DIRECTORY

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UNIT VARIATIONS

[illegible][illegible]

DRB 106A

MR

[illegible]

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REWORK INSTRUCTIONS

ECO*7

COMPONENT ADDS SIDE 1, AS SHOWN:

- 7-1 R111 (180)
- 7-2 R150 (150)
- 7-3 R148 (180, 5W)
- 7-4 R149 (1K)

WIRE ADDS SIDE 1, AS SHOWN:

- 7-5 FROM PC3 TO PC4 WITH ITEM 117
- 7-6 FROM E37-6 TO PTH LEFT OF C16
- 7-7 FROM R139 TO E8-5
- 7-8 FROM E8-6 TO E31-2
- 7-9 FROM E31-2 TO E45-7
- 7-10 FROM PTH ABOVE E45 TO PTH ABOVE & RIGHT OF E28-14
- 7-11 FROM E23-7 TO PTH LEFT OF E20-8
- 7-12 FROM E24-7 TO PTH ABOVE E34-14

SEE E-EC-5013272-0-0 FOR ETCH CUTS

ECO*10

COMPONENT DELETIONS

- 10-11 PCI
- 10-12 PC2
- 10-13 PC3
- 10-14 PC4
- 10-15 121K RES FROM R38
- 10-16 121K RES FROM R44

COMPONENT ADDS

- 10-17 NEW CONNECTOR PCI (SEE NOTE 1)
- 10-18 NEW CONNECTOR PC2
- 10-19 NEW CONNECTOR PC3
- 10-20 NEW CONNECTOR PC4

REWORK INSTRUCTIONS

ECO*10 CONT

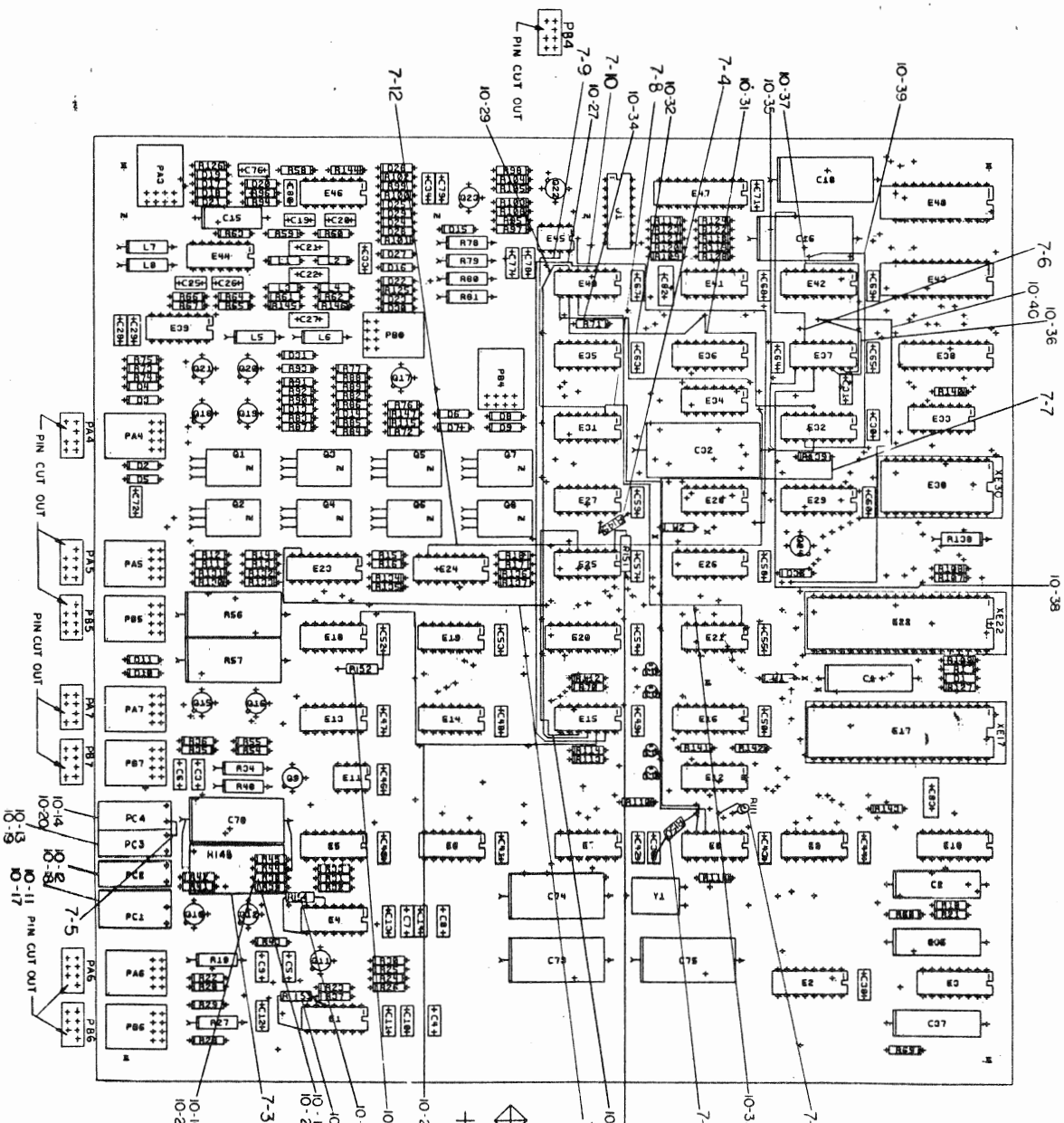
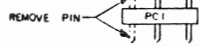
COMPONENT ADDS (CONT)

- 10-21 5.6K RES TO R38
- 10-22 5.6K RES TO R44
- 10-23 R152 FROM RIGHT END OF C52 TO PTH NEAR E8-11
- 10-24 R151 FROM E25-1 TO PTH ABOVE E25-14
- 10-25 R153 FROM E1-9 TO E1-8
- 10-26 R154 FROM E4-5 TO E4-8

WIRE ADDS AS SHOWN

- 10-27 FROM E40-3 TO E15-3
- 10-28 FROM E15-12 TO E18-1
- 10-29 FROM E40-6 TO E15-11
- 10-30 FROM E15-10 TO E25-5
- 10-31 FROM PTH AT E41-10 TO E17 SIDE OF ETCH CUT NEAR E37-11
- 10-32 FROM PTH AT E41-10 TO E40-9
- 10-33 FROM E40-10 TO E21-1
- 10-34 FROM PTH ABOVE E34-1 TO E40-8
- 10-35 FROM E32-12 TO E37-8
- 10-36 FROM PTH NEAR E37-4 TO E37-12
- 10-37 FROM E37-13 TO E42-6
- 10-38 FROM PTH BESIDE E22-8 TO E37-10
- 10-39 FROM PTH BESIDE E42-6 TO E32-11
- 10-40 FROM PTH BESIDE D36 TO PTH NEAR E37-4

NOTE: 1 REMOVE LEFT HAND PIN COMPLETELY BEFORE INSERTING CONNECTOR (ITEM # 118) AT PCI



NOTES: 1. C31, C36, C82, R125, R126 ARE SPARES.
2. E30 IS AN OPTIONAL COMPONENT.
3. DO NOT IMPLEMENT ECO*103273-M1000 INTO SYSTEM WITH SERIAL NO. 29,799 OR LESS.

STEP	Y	RTS	STEP	TDS
REPEAT	X	RTS	STEP	TDS

ETCH REV. E-P-5

SIGNATURES	DATE	digital
DRN. A. J. [Signature]	11-2	
CHK'D. [Signature]	11-2	
MECH. ENG. [Signature]	11-2	
PROJ. ENG. [Signature]	11-2	
PROD. [Signature]	11-2	
SCALE 2/1		
SHT. 1 OF 1		
NEXT NUMBER R55-8-DD-5413273-0		

TITLE	FLOPPY CONTROLLER
SIZE	CODE
NUMBER	UA 5413273-0-0 M
REV	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	E-MD-5013272-0-0	5013272-00	FLOPPY CONTROLLER R=W	1	
2	2		1000085-00	180 MFD 6V 20% 150D S.TA	1	C1
3	3		1004814-00	47 MFD 20V 10% 150D S.TA	2	C35,C37
4	4		1001765-00	5000.0 MMF 100V 20% Z5U DISC	5	C3,C6,C9,C12,C33
5	5		1001610-01	.01 MFD 100V -20+80 Z5U DISC	43	C4,C5,C7,C8,C10,C11,C13,C14,C28, C29,C30,C34,C38,C40-C44,C46-C50, C52-C55,C57-C60,C63-C65,C67-C69, C71,C72,C76-C79
6	6		1000075-00	25 MFD 25V G% 30D AL EL	5	C16,C18,C73-C75
7	7		1010978-32	.047 MFD 50V 10% 2C067CER.	4	C19,C20,C25,C26
8	8		1000021-00	*** THIS ITEM IS NOT USED ***	-	
9	9		1000020-00	180.0 MMF 100V 5%200PPM DM158	1	C21
10	10		1009671-00	.51 MFD 100V 5% 410P MYLR	1	C32
11	11		1001739-00	*** THIS ITEM IS NOT USED ***	-	
12	12		1000080-00	50 MFD 50V G% 30D AL EL	1	C70
13	13		1105275-00	D 672 TR= 15NS PIV= 60V SI	8	D1,D15-D17,D19,D20,D22,D31
14	14		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	10	D2-D11
15	15		1110713-00	SZ710910 VZ= 5.1 2% M	2	D13,D14
16	16		1111577-00	1N 4454 TR= 4NS PIV= 50 S	10	D18,D21,D23-D30
17	17		1110324-00	LED 1MCD010MA PIV=3	4	D32-D35
18	18		1213335-02	HEADER 9POS RT ANGLE	10	PA3-PA7,PB3-PB7
19	19		1212204-00	HEADER,156 2POS RT ANGLE	4	PC1-PC4
20	20		1215006-02	SOCKET 16PIN IC LOW PROFILE	1	J1
21	21		1215006-06	SOCKET 24PIN IC LOW PROFILE	1	XE30
22	22		1215006-08	SOCKET 40PIN IC LOW PROFILE	2	XE17,XE22
23	23		1300439-00	3.30 K .25 W 5.0 % CC	8	R1,R76,R88,R89,R94,R96,R98,R104
24	24		1302715-00	*** THIS ITEM IS NOT USED ***	-	
25	25		1300250-00	150.0 .25 W 5.0 % CC	1	R150
26	26		1309405-00	68.0 .50 W 5.0 % CC	4	R19,R27,R34,R40
27	27		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM	4	R20,R28,R36,R42

REVISION HISTORY			BASIC PART NO: 5413273		DRN: E,WILSON		DATE: 04-MAY-78		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A						TITLE			
			SECTION VARIATION INDEX		CHK'D: R,W,CAUNTER		DATE: 04-MAY-78		PARTS LIST			
---	INIT	C	[A] 00						5413273			
MN	MR001	D	[B]						FLOPPY CONTROLLER R=W			
MN	MR002	E	[C]									
MN	MR003	F	[D]		DES,ENG: W,LEDDER		DATE: 15-MAY-78					
WL	MR004	H	[E]									
WL	MR005	J	[F]						DOCUMENT NUMBER			
WL	5413273-MR006	K	[H]		RESP,ENG: J,CYR		DATE: 15-MAY-78		SIZE CODE NUMBER REV			
JC	5413273-MR007	L	[J]									
			[K]		MFG,ENG: R,HAMELTON		DATE: 15-MAY-78		K	PL	5413273-0-DBP	L
			[L]									
			[M]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #			
			[N]		E-UA=5413273-0-0		PDT:1/150		Z0454L.PLS 27			
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
28	28	1300365=00	1.0 K .25 W 5.0 % CC	14	CONT R21,R54,R55,R64,R65,R77,R91,R92, R103,R105,R106,R110,R139,R149
29	29	1302871=00	1.21 K 1/4W 1% RN55D=F 100PPM	11	CONT R22,R29,R35,R38,R41,R44,R72=R74, R84,R115
30	30	1300391=00	1.50 K .25 W 5.0 % CC	7	CONT R23,R30,R37,R43,R63,R90,R93
31	31	1302941=00	14.7 K 1/4W 1% RN55D=F 100PPM	5	CONT R24,R20,R31,R33,R75
32	32	1304850=00	4.64 K 1/4W 1% RN55D=F 100PPM	5	CONT R10,R25,R32,R39,R45
33	33	1300479=00	10.0 K .25 W 5.0 % CC	19	CONT R11=R18,R95,R97,R107,R108,R116, R127,R128,R129,R140=R142 R56,R57
34	34	1309094=00	100 5W 5% WW	2	
35	35	1302644=00	*** THIS ITEM IS NOT USED ***	-	
36	36	1303047=00	*** THIS ITEM IS NOT USED ***	-	
37	37	1302411=00	*** THIS ITEM IS NOT USED ***	-	
38	38	1300488=00	12.0 K .25 W 5.0 % CC	2	R68,R69
39	39	1301322=00	180.0 .25 W 5.0 % CC	5	R70,R111=R114
40	40	1305143=00	825 1/4W 1% RN55D=F 100PPM	1	R71
41	41	1300385=00	1.20 K .50 W 5.0 % CC	4	R78=R81
42	42	1304868=00	2.74 K 1/4W 1% RN55D=F 100PPM	1	R87
43	43	1303156=00	34.8 K 1/4W 1% RN55D=F 100PPM	2	R99,R100
44	44	1309419=00	19.6 K 1/4W 1% RN55D=F 100PPM	2	R101,R102
45	45	1300295=00	330.0 .25 W 5.0 % CC	1	R109
46	46	1302751=00	30.0 .25 W 5.0 % CC	8	R117=R124
47	47	1510421=00	*** THIS ITEM IS NOT USED ***	-	
48	48	1510705=00	XA 05 NPN 500MW SI 60 50 P	7	Q9=Q12,Q15,Q16,Q23
49	49	1510705=00	XA 55 PNP 500MW SI 60 50 P	6	Q17=Q22
50	50	1610663=00	*** THIS ITEM IS NOT USED ***	-	
51	51	1601759=00	*** THIS ITEM IS NOT USED ***	-	
52	52	1602723=00	1000 UH 10% 125MA	4	L5=L8
53	53	1812396=09	XTAL 16,000 MHZ	1	Y1
54	54	1910337=00	DEC 1414L VOLT,COMPARATOR,DUAL	3	E1,E4,E39
55	55	1912848=00	LS158 MUX 1 OF 2 (QUAD)	1	E2
56	56	1912837=00	LS123 ONE SHOT=DUAL,RETRIG	1	E3
57	57	1914451=00	74LS393 COUNTER,BINARY,4BIT	2	E5,E14
58	58	1912799=00	LS00 NAND=GATE=QUAD 2IN,P	2	E6,E41
59	59	1912824=00	LS74 FF=D DUAL,EDGE TRIGG	3	E7,E13,E28
60	60	1912803=00	LS04 INVERTER GATE=HEX 1I	1	E27
61	61	1912801=00	LS02 NOR=GATE=QUAD 2IN	3	E9,E21,E37
62	62	1910406=00	75451 DRIVER,PERIPH,DUAL,	1	E11
63	63	1909928=00	7416 INVERTER GATE=HEX 1I	1	E15
64	64	1912840=00	LS161 COUNTER,SYNCHR,4BIT	2	E16,E26
65	65	2115105=00	FLOPPY DISK CONTROLLER/FORMATTER	1	E17
66	66	1905587=00	*** THIS ITEM IS NOT USED ***	-	
67	67	1912820=00	LS51 A=O=I GATE 2=WIDE 2I	1	E19
68	68	1912844=00	LS151 MUX 1 OF 8 & DATA	1	E20
69	69	2114963=00	UP,8-BIT NMOS	1	E22
70	70	1912853=00	*** THIS ITEM IS NOT USED ***	-	
71	71	1912842=00	LS138 DECODER=THREE INPUT,	1	E29
72	72	1912805=00	LS08 AND GATE=QUAD 2IN,PO	3	E12,E31,E33

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							5413273 FLOPPY CONTROLLER R=W		K	PL	5413273-0-DBP	L

MR

AUTOMATED BY PRTLST,2D(12)

PARTS LIST

SHEET A3 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
73	73		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	1	E32
74	74		1910741-00	7406 INVERTER GATE=HEX 1I	1	E35
75	75		1914214-00	LS374 FF=D OCTAL EDGE TRIG	1	E38
76	76		1910644-00	733 DIFFERENTIAL AMP,WID	2	E44,E46
77	77		1912847-00	LS157 MUX 1 OF 2(QUAD)	1	E42
78	78		2113681-00	RAM, 256X4, TRI=ST,	2	E43,E48
79	79		1910645-00	75452 DRIVER,PERIPH,DUAL,	1	E45
80	80		1915218-00	LS245 TRANSCEIVER,BUS,OCT	1	E47
81	81		9006010-01	SCREW,PAN ,PHIL, 4=40X 5/16	8	
82	82		9006557-00	NUT,KEP , 4=40X 1/4 AF	8	
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		9009769-00	WASHER, RECTANGULAR .405X.225X.0	8	
85	85		1303177-00	3.40 K .25 W 5.0 % CC	5	R82,R83,R85,R86,R147
86	86		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
87	87		1005820-00	22.0 MMF 100V 5%200PPM DM15S	1	C83
88	88		1000011-00	*** THIS ITEM IS NOT USED ***	-	
89	89		1110420-00	*** THIS ITEM IS NOT USED ***	-	
90	90		9009597-00	INSULATOR, THERMA-FILM	8	
91	91		1000026-00	680.0 MMF 100V 5%200PPM DM15S	1	C22
92	92		1313590-00	1.5 K 1/4W 1% RN55D=F 100PPM	2	R145,R146
93	93		1000015-00	82.0 MMF 100V 5%200PPM DM15S	1	C27
94	94		1912829-00	LS86 X=OR GATE=QUAD 2IN	1	E34
95	95		1000006-00	*** THIS ITEM IS NOT USED ***	-	
96	96		1910534-00	74S04 INVERTER GATE=HEX 1I	1	E8
97	97		1000050-00	.033 MFD 100V 10% 663UW MYLR	1	C15
98	98		1503409-01	DEC6534B PNP 310MW SI 40 90 P	1	Q24
99	99		1311522-00	200.0 .25 W 5.0 % CC	2	R66,R67
100	100		1612946-02	22 UH 10%	2	L1,L2
101	101		1610661-00	56 UH 10% #DD56	2	L3,L4
102	102		1912858-00	LS221 ONE SHOT=DUAL,SCHMIT	1	E10
103	103		1912697-00	LS174 FF=D HEX W/CLEAR	1	E36
104	104		1912816-00	LS32 OR GATE=QUAD 2IN,POS	1	E40
105	105		1909984-00	DEC 74141 DECODER&NIXIE TUBE D	2	E23,E24
106	106		1912823-00	LS73 FF=JK DUAL W/CLEAR	2	E18,E25
107	107		1102808-00	1N 752A VZ= 5.6 5% .40W	1	D36
108	108		1301781-00	82.0 .50 W 5.0 % CC	1	R138
109	109		1300447-00	4.70 K .25 W 5.0 % CC	8	R130=R137
110	110		1514509-00	TIP.125 PNP 65W SI 60 500 8A	8	Q1=Q8
111	111		1300496-00	15.0 K .25 W 5.0 % CC	2	R143,R144
112	112		1302874-00	147. 1/4W 1% RN55D=F 100PPM	4	R59=R62
113	113		1302377-00	39.0 .25 W 5.0 % CC	1	R58
114	114		1312655-00	180 5W 5%	1	R148
115	115		1004813-00	10 MFD 20V 10% S.TANT	1	C2
116	116		1010274-02	1 MFD 50V X% 2C023 CER.	1	C80
117	117		9107560-03	WIRE,BUSS,18AWG	A/R	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							5413273		K	PL	5413273-0-DBP	L
							FLOPPY CONTROLLER R=W					

MR

MR

AUTOMATED BY PRTLST,2D(12)

PARTS LIST

SHEET A4 OF A4

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

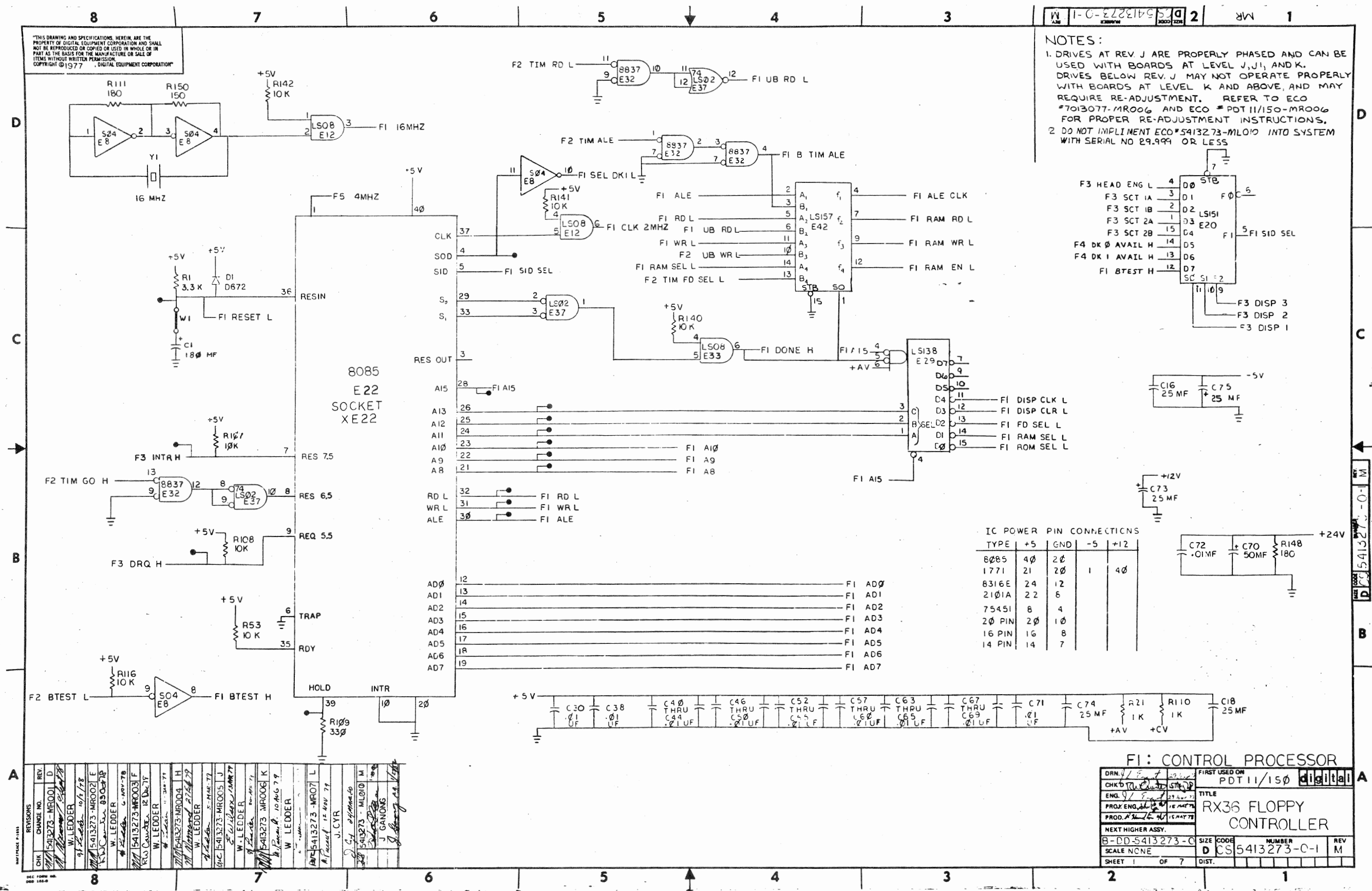
QTY PER VARIATION
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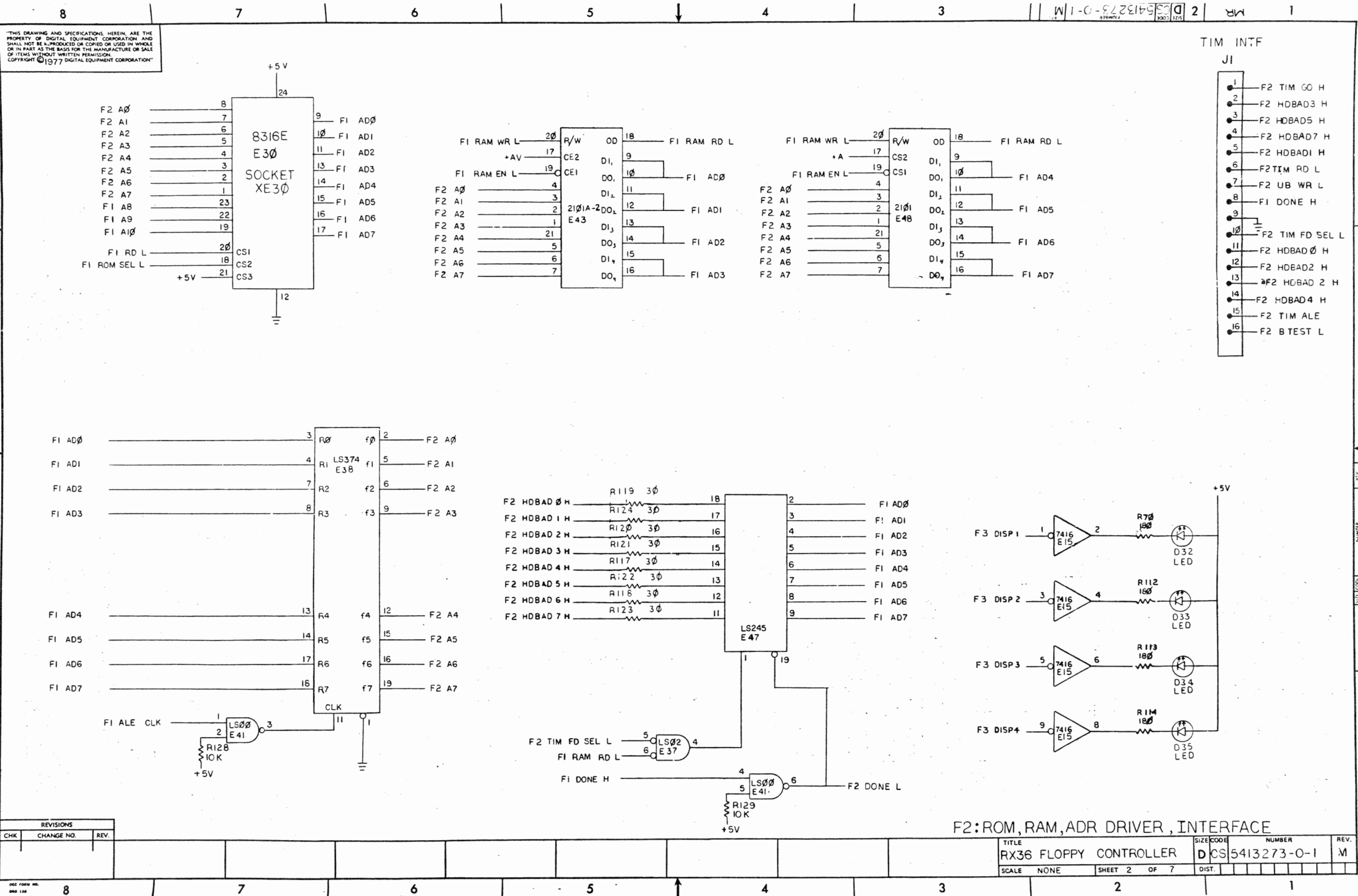
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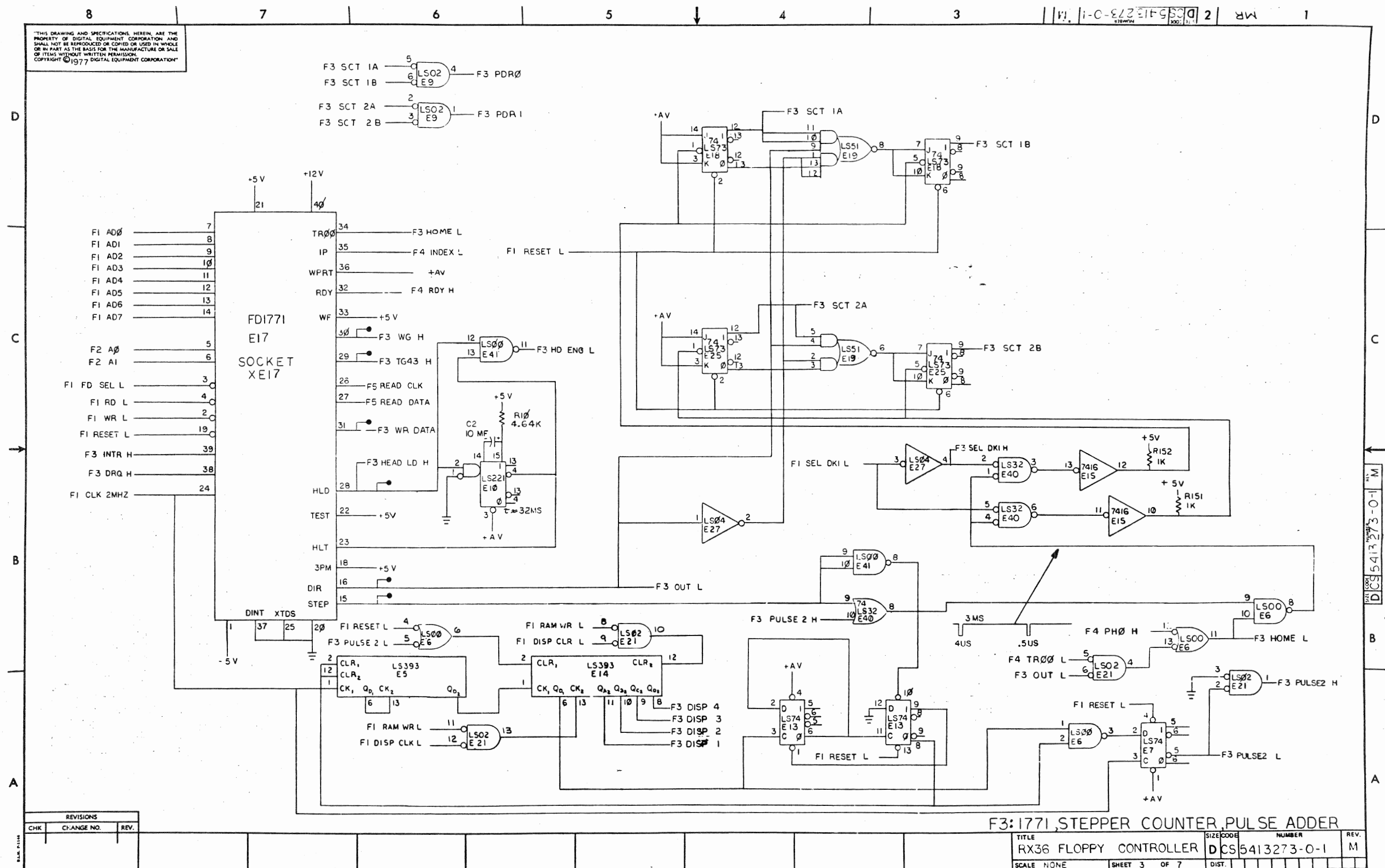
118 NOTE: 1. ITEM 90 TO BE USED ON (ITEM 47) Q1-Q8.
119 NOTE: 2. 7474 (1905547) MAY BE SUBSTITUTED FOR XE7 (ITEM #59) .

D	I	G	I	T	A	L	TITLE	5413273	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							FLOPPY CONTROLLER, R=W.			K	PL	5413273-0-DBP	L

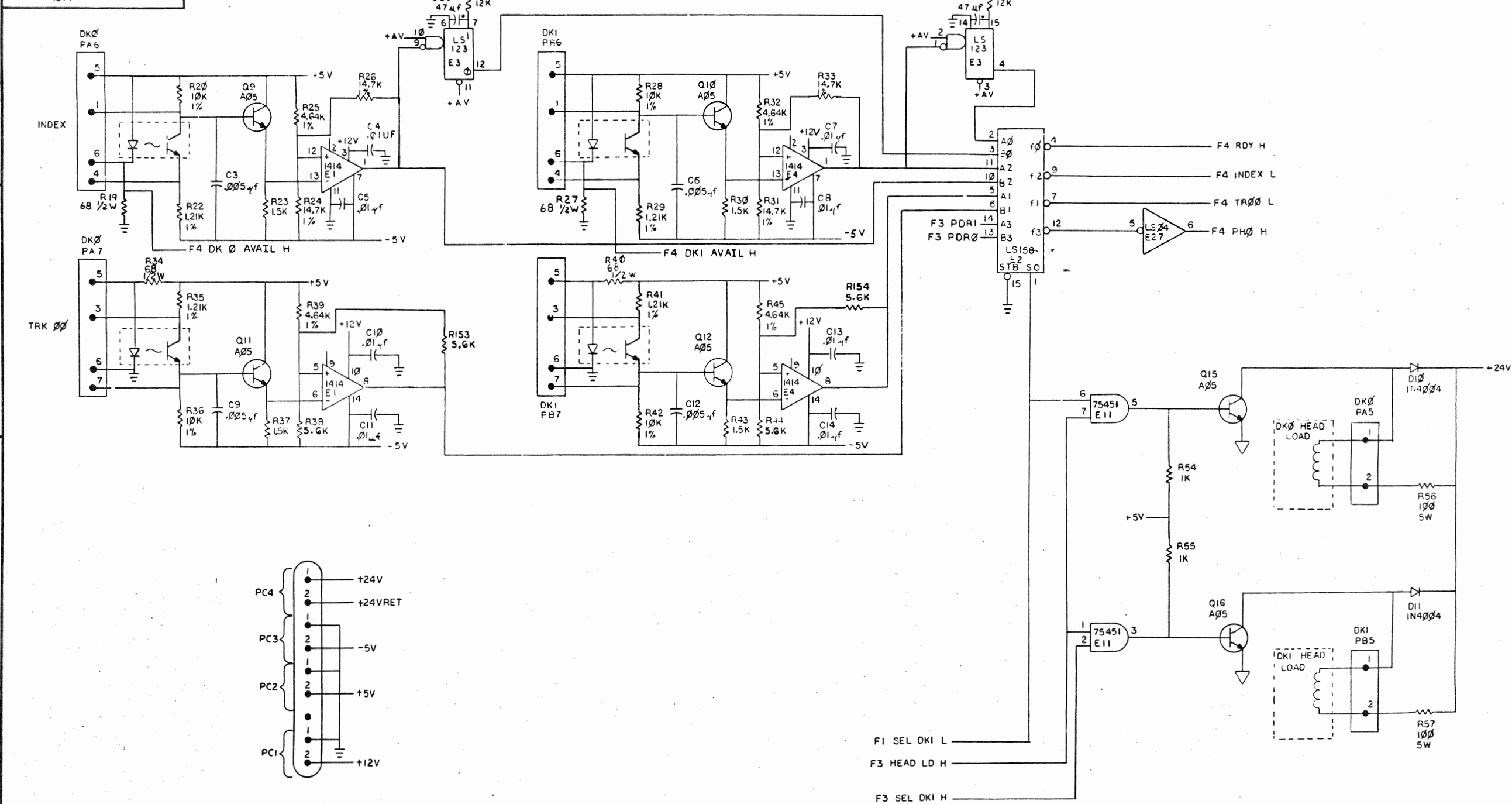
MR







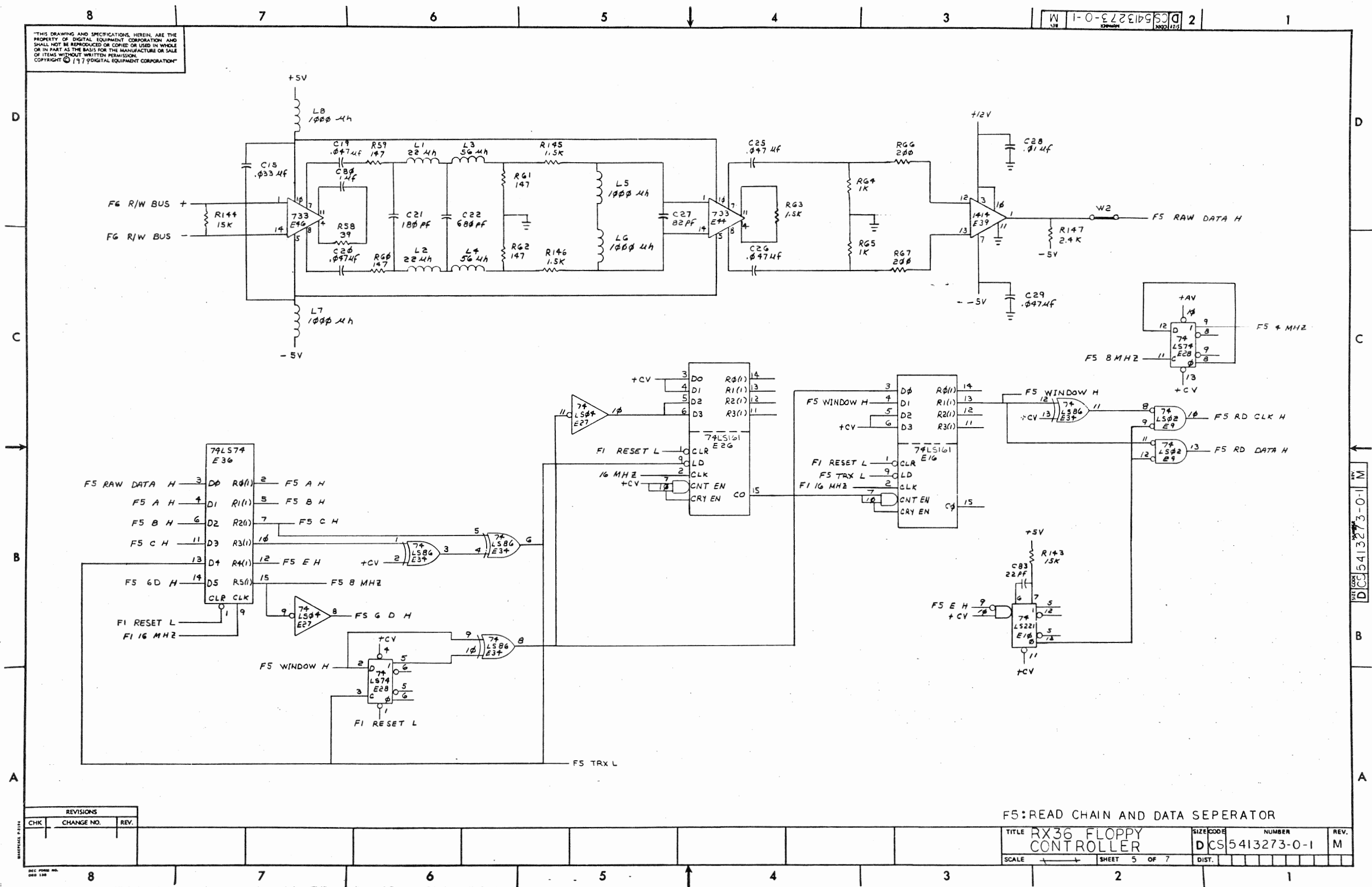
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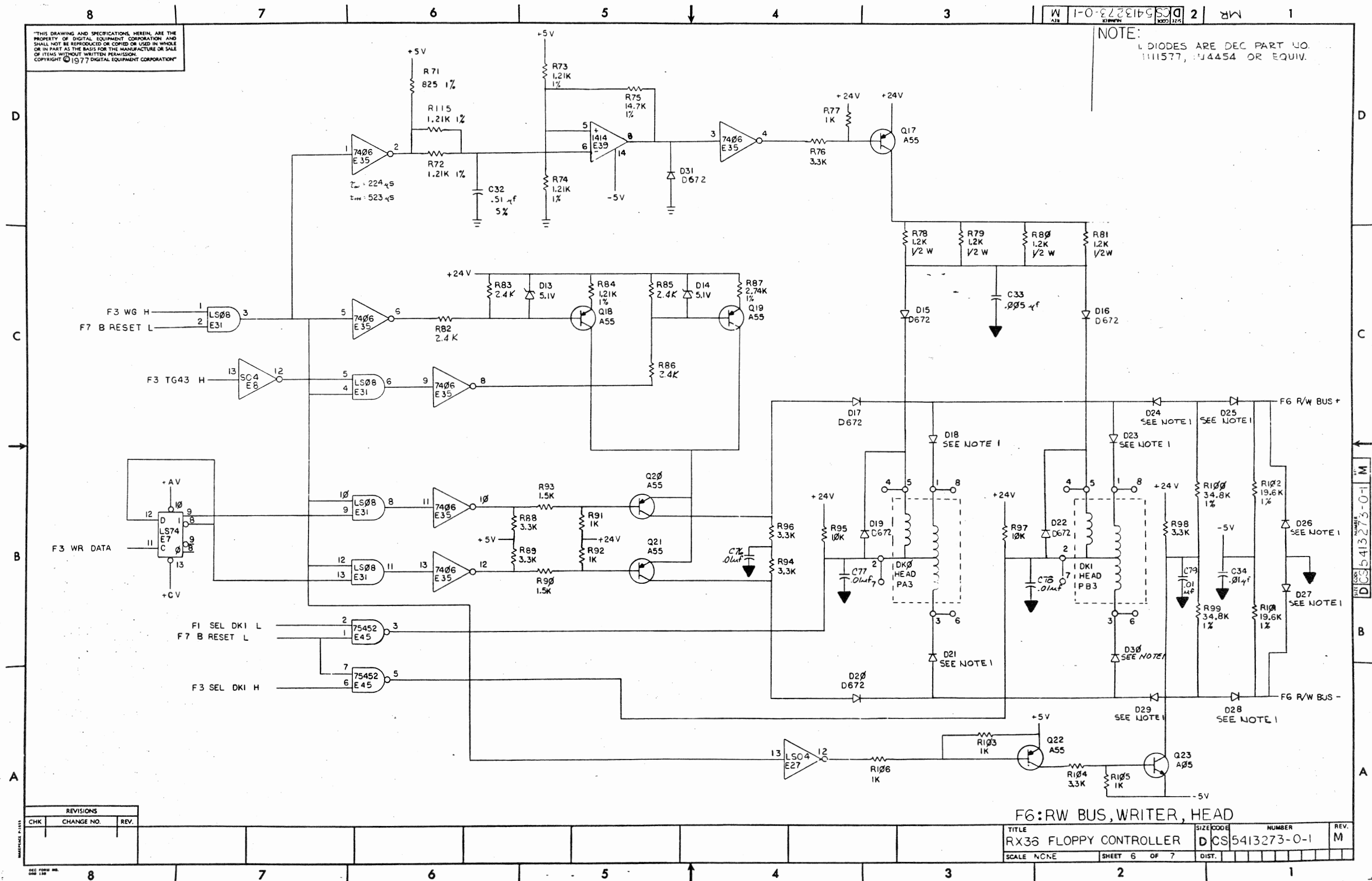


F4: HEAD LOAD, TRØ, INDEX

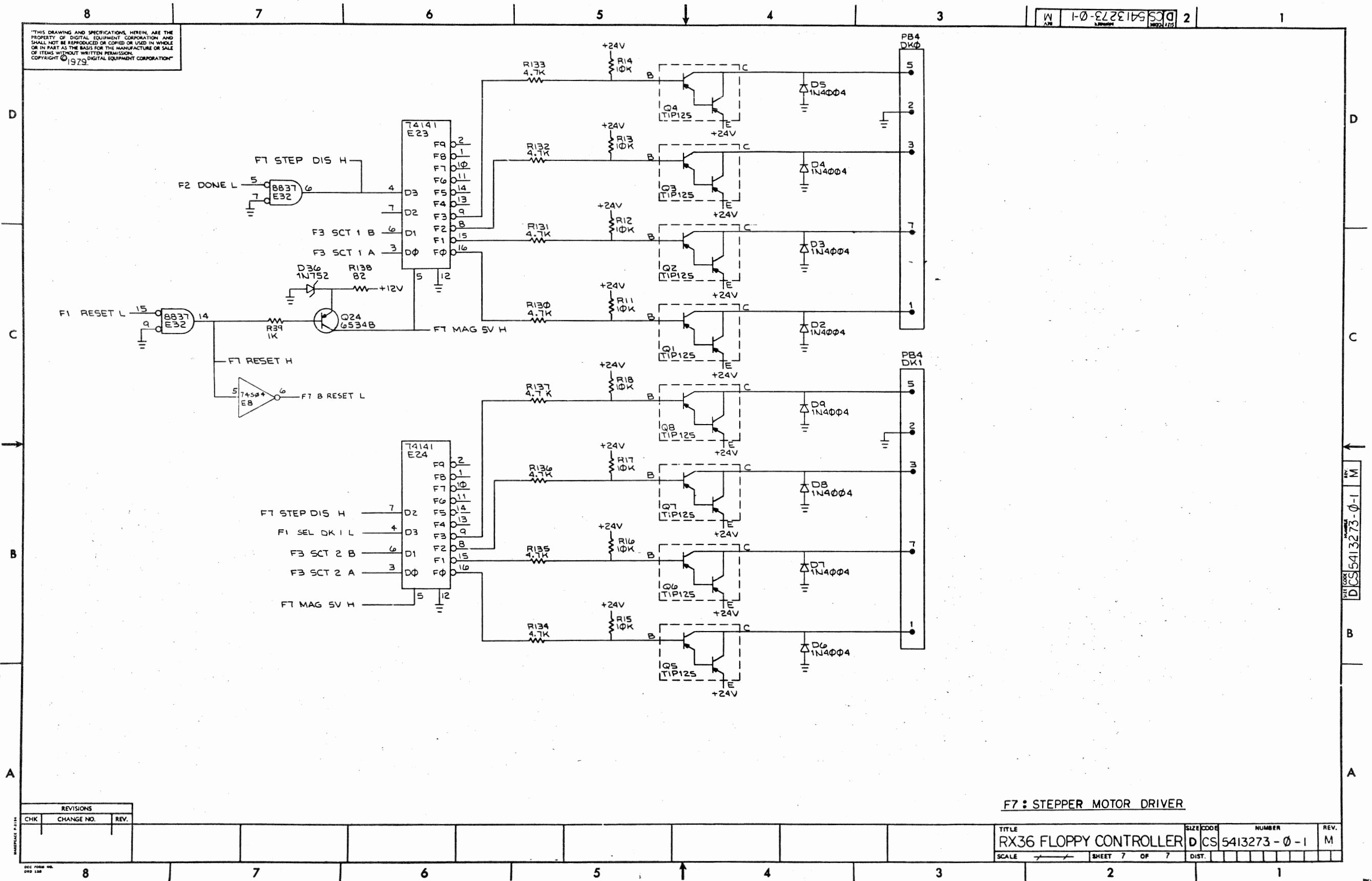
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER		D	CS 5413 273-0-1	M
SCALE	NONE	SHEET	4 OF 7	DIST.





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F7: STEPPER MOTOR DRIVER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D CS	5413273-0-1	M
SCALE	SHEET 7 OF 7	DIST.	