

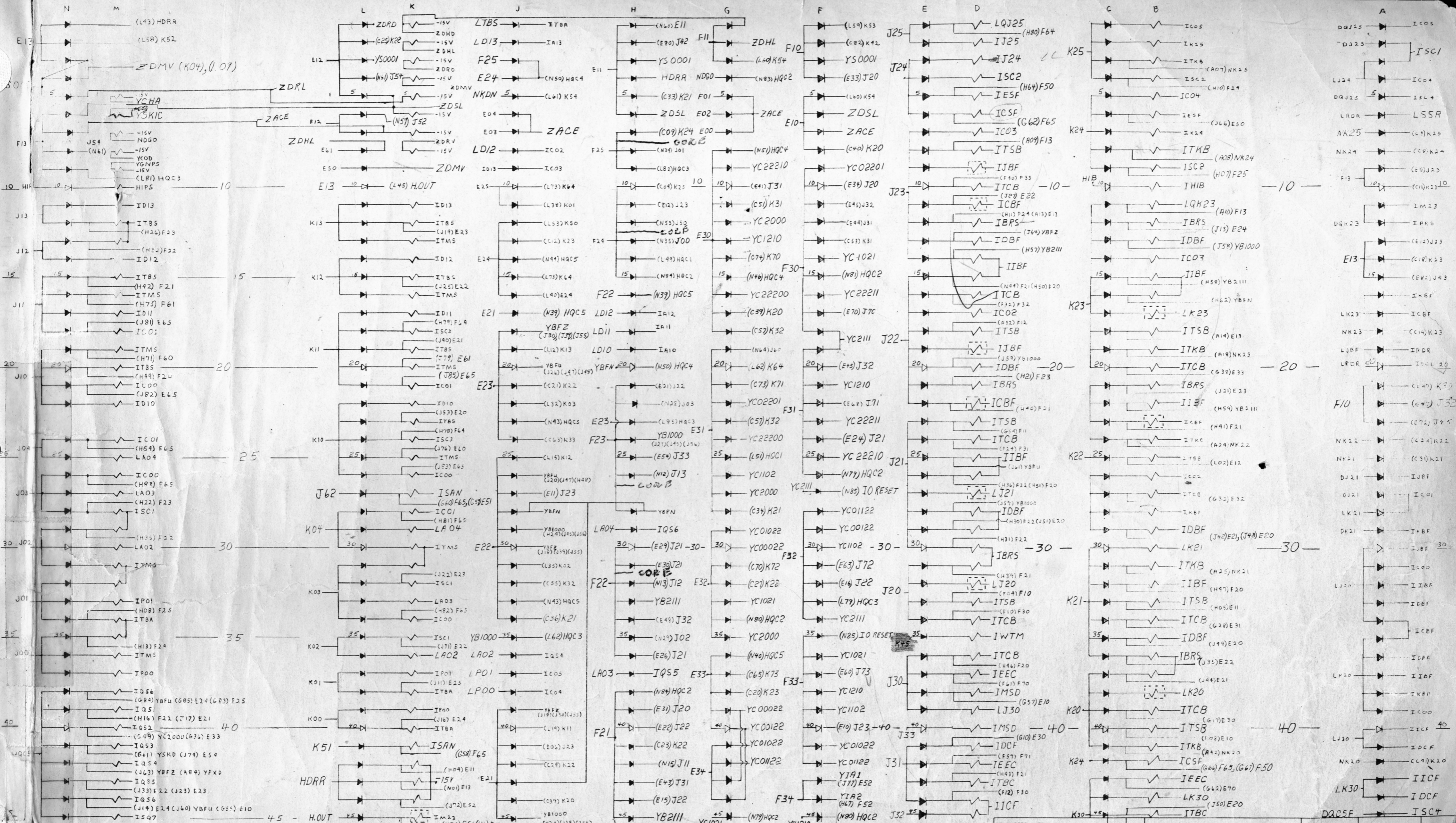
BOARD 1, PLUG 3		BOARD 3, PLUG 1		BOARD 4, PLUG 2		BOARD 5, PLUG 3		BOARD 6, PLUG 4		BOARD 6, PLUG 8		BOARD 13, PLUG 2	
A NSST 1	NSST	A-15 1	-15	A-M7 1	M3	A -2.4V 1	-15V	A-1 NKDN 1	NK24	A NK05 1	NK24	A LC06 1	LC06
B YSS7 2	YSS7	B GND 2	GND	B GND 2	GND	B F44 2	E44	B-2 YRUN 2	NK20	B NHD 2	NK20	B ISCL(+) 2	ISCL(+) 2
C LNRUN 3	LNRUN	C-2.4 3	-2.4	C-2.4 3	-2.4	C F43 3	E43	C YRAD 3	NK21	C YRAD 3	NK21	C ISQL(-) 3	ISQL(-) 3
D LSC4 4	LSC4	D ROM CLK. 4	ROM CLK.	D ROM CLK. 4	ROM CLK.	D F42 4	E42	D YKAD 4	NK22	D YRAD 4	NK22	D YFLT 4	YFLT 4
E LSTO 5	LSTO	E F.F. CLK. 5	F.F. CLK.	E F.F. CLK. 5	F.F. CLK.	E F41 5	E41	E YKDN 5	NK23	E YRAD 5	NK23	E YRDN 5	YRDN 5
F LRDR 6	LRDR	F J45 6	J45	F J45 6	J45	F F40 6	F40	F-7 YINH 7	NK24	F YRDN 7	NK23	F HOUT 7	HOUT 7
G-2.4V 7	-2.4V	G H K45 7	K45	G H K45 7	K45	G-7 7	-7	G YGND 8	GND	G FZOB 8	FZOB 8	G F21B 8	F21B 8
H LSR5 8	LSR5	H LROM 8	LROM	H LROM 8	LROM	H M7 9	M7	H YPSE 9	YPSE 9	H F24-B 9	F24-B 9	H F25B 9	F25B 9
I ROM CLK. 9	ROM CLK.	I F45 9	F45	I F45 9	F45	I Y45 9	Y45	I YPSE 9	YPSE 9	I F22-B 9	F22-B 9	I F25B 9	F25B 9
J F.F. CLK. 10	F.F. CLK.	J F45 9	F45	J F45 9	F45	J Y45 9	Y45	I NK22 10	NK22	I F24-B 9	F24-B 9	I F25B 9	F25B 9
K TPA 11	TPA	K F45 9	F45	K F45 9	F45	K Y45 9	Y45	M=10 NK23	NK23	M NF11 10	NF11 10	M NF11 10	NF11 10
L 12		L YW02201 10	YW02201	L YW02201 10	YW02201	L Y45 9	Y45	M=11 NK21	NK21	M NF11 10	NF11 10	M NF11 10	NF11 10
M 13		M YC22200 11	YC22200	M YC22200 11	YC22200	M Y45 9	Y45	M=12 NK20	NK20	M NF11 10	NF11 10	M NF11 10	NF11 10
N 14		N F52 F34 12	F52 F34	N F52 F34 12	F52 F34	N Y45 9	Y45	M=13 NK20	NK20	M NF11 10	NF11 10	M NF11 10	NF11 10
P 15		P YC22211 13	YC22211	P YC22211 13	YC22211	N Y45 9	Y45	M=14 NK24	NK24	M NF11 10	NF11 10	M NF11 10	NF11 10
Q 16		Q E52 F34 15	E52 F34	Q E52 F34 15	E52 F34	P Y45 9	Y45	M=15 NK25	NK25	M NF11 10	NF11 10	M NF11 10	NF11 10
R 17		R YC22201 16	YC22201	R YC22201 16	YC22201	Q Y45 9	Y45	U V=16 YXDC1	YXDC1	U V=16 YXDC1	YXDC1	U V=16 YXDC1	YXDC1
S 18		S YC22210 17	YC22210	S YC22210 17	YC22210	Q Y45 9	Y45	U V=17 YXDC1	YXDC1	U V=17 YXDC1	YXDC1	U V=17 YXDC1	YXDC1
T 19		T YC00022 18	YC00022	T YC00022 18	YC00022	R Y45 9	Y45	U V=18 YDC1	YDC1	U V=18 YDC1	YDC1	U V=18 YDC1	YDC1
U 20		U YC00122 20	YC00122	U YC00122 20	YC00122	S Y45 9	Y45	U V=19 YDC2	YDC2	U V=19 YDC2	YDC2	U V=19 YDC2	YDC2
V 21		V YC01122 21	YC01122	V YC01122 21	YC01122	T Y45 9	Y45	U V=20 YDC2	YDC2	U V=20 YDC2	YDC2	U V=20 YDC2	YDC2
W 22		W YC01022 22	YC01022	W YC01022 22	YC01022	U Y45 9	Y45	U V=21 YDC2	YDC2	U V=21 YDC2	YDC2	U V=21 YDC2	YDC2
X 23		X GND 15	GND	X GND 15	GND	V Y45 9	Y45	U V=22 YDC2	YDC2	U V=22 YDC2	YDC2	U V=22 YDC2	YDC2
Y 24		Y GND 15	GND	Y GND 15	GND	W Y45 9	Y45	U V=22 YDC2	YDC2	U V=22 YDC2	YDC2	U V=22 YDC2	YDC2
Z 25		Z GND 15	GND	Z GND 15	GND	X Y45 9	Y45	U V=22 YDC2	YDC2	U V=22 YDC2	YDC2	U V=22 YDC2	YDC2

NOTES: 1. ALL PLUGS ARE NUMBERED, SOCKETS ARE REFERRED TO BY PLUG NO.  
 2. PINS ARE BY BOARD PLUG, I. E. 3-2-F = BOARD 3, PLUG 2, PIN F.  
 3. DRAWINGS REFER TO COMPONENT SIDE UNLESS NOTED.  
 4. PLUGS NUMBERED COUNTER CLOCKWISE.

ENG. RESP. - DIV.	ITEM	QTY	DESCRIPTION	PART NO.	DWG. NO.	MAT'L SPEC.
UNLESS OTHERWISE NOTED - TOLERANCES -	AL HOWARD	ENGINEER	DATE 6-10-69	TITLE INTERCONNECTIONS & BOARD REFERENCE LIST		HEWLETT PACKARD LABORATORY INSTRUMENTS
0.XX ± 0.02 0.XXX ± 0.005	APPROVED					
ANGULAR ±	SUPERSEDES					
MACHINED SURFACES	FINISH					
DO NOT SCALE	SCALE					
	NEXT ASSY: 9100B					

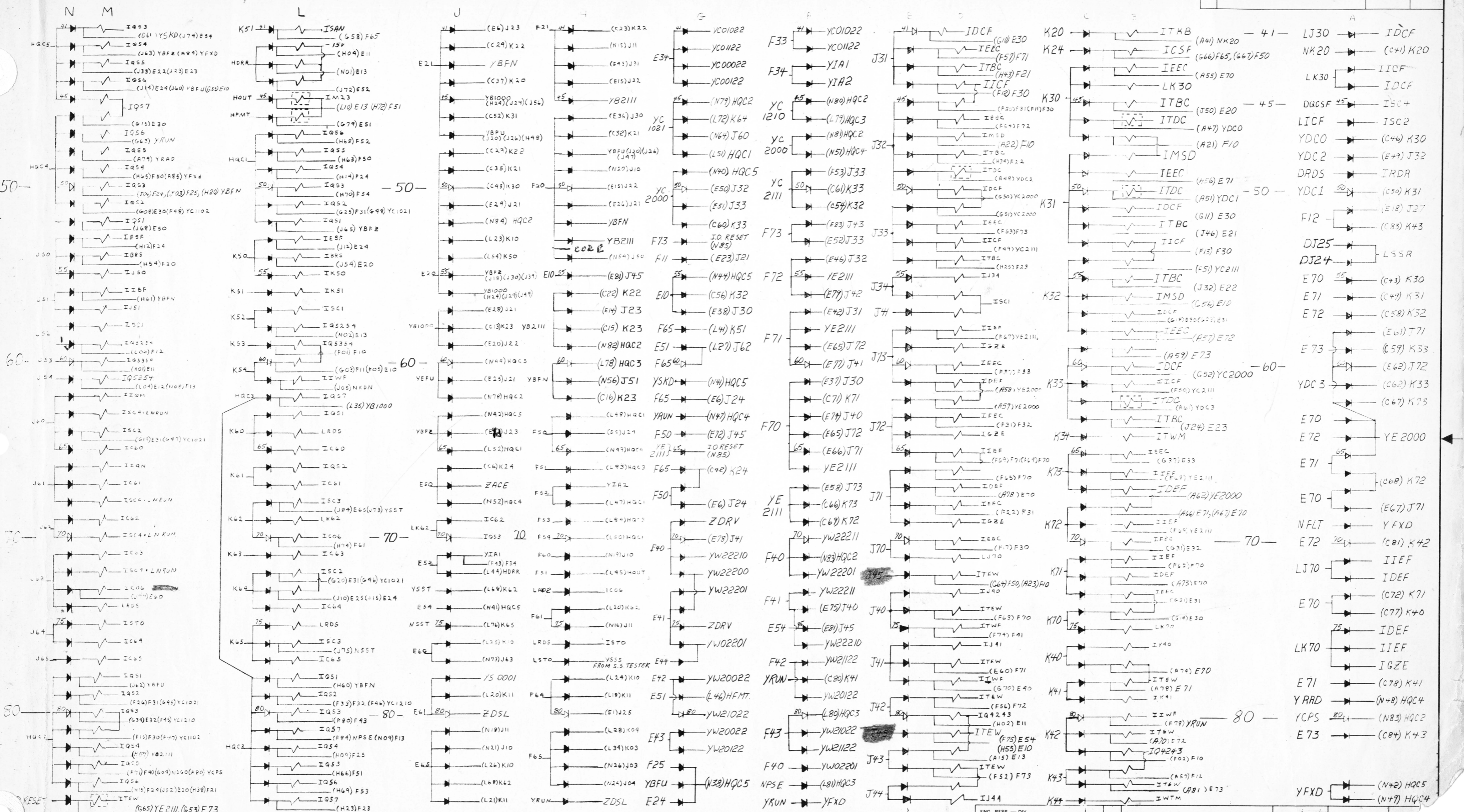


SYM	REVISIONS	D



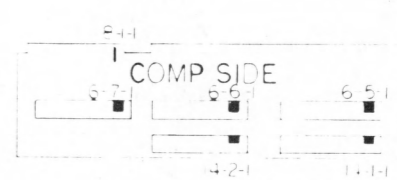
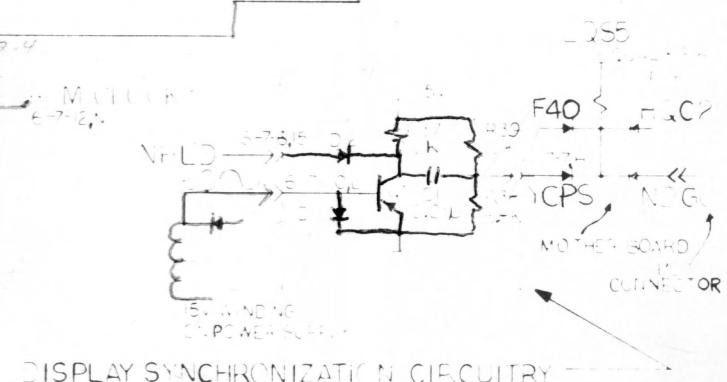
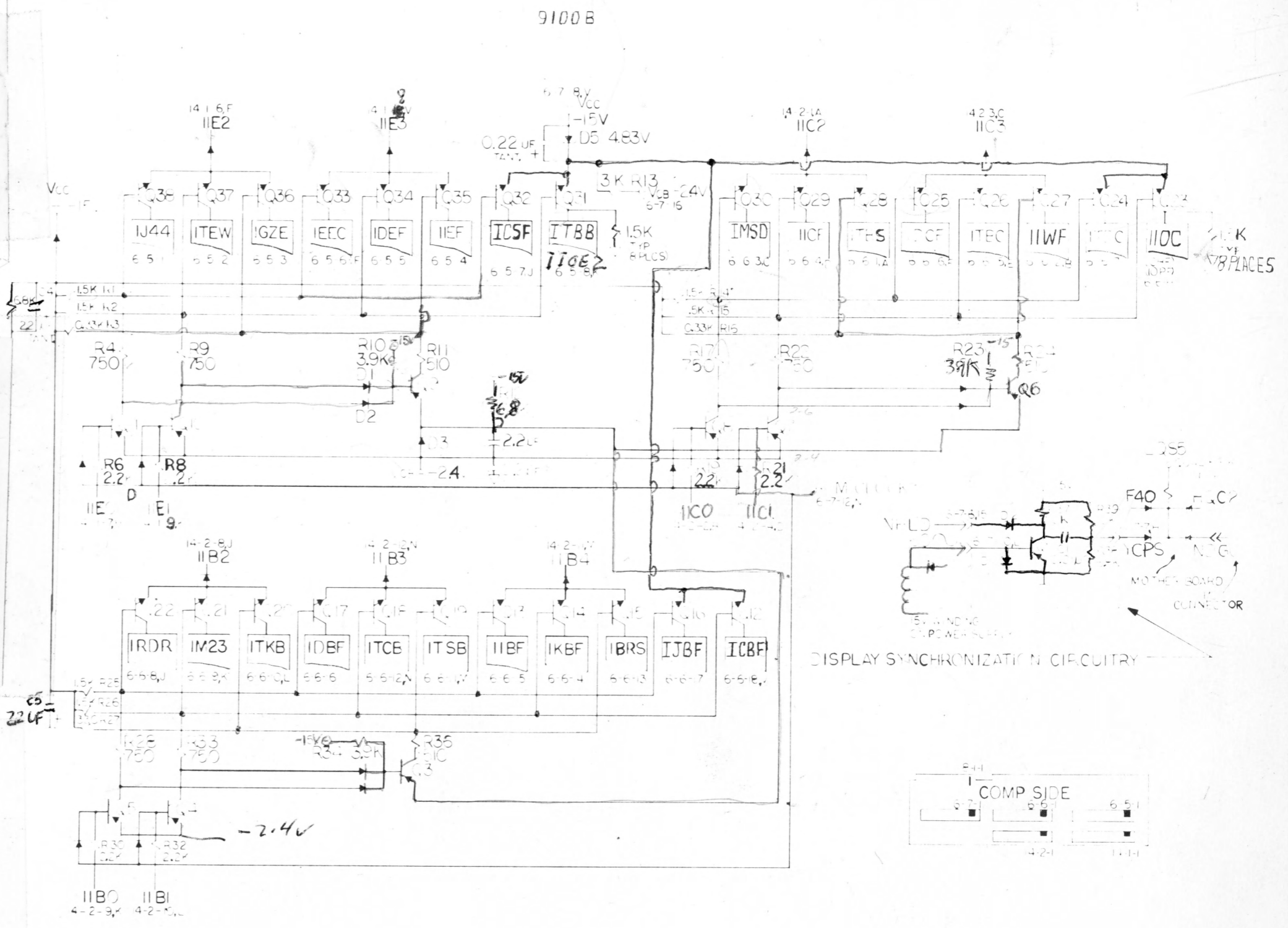
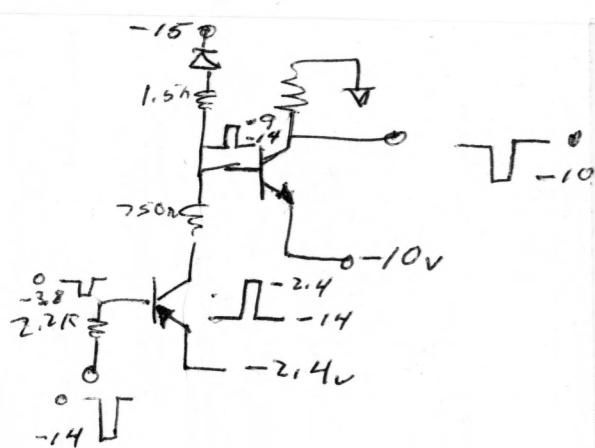
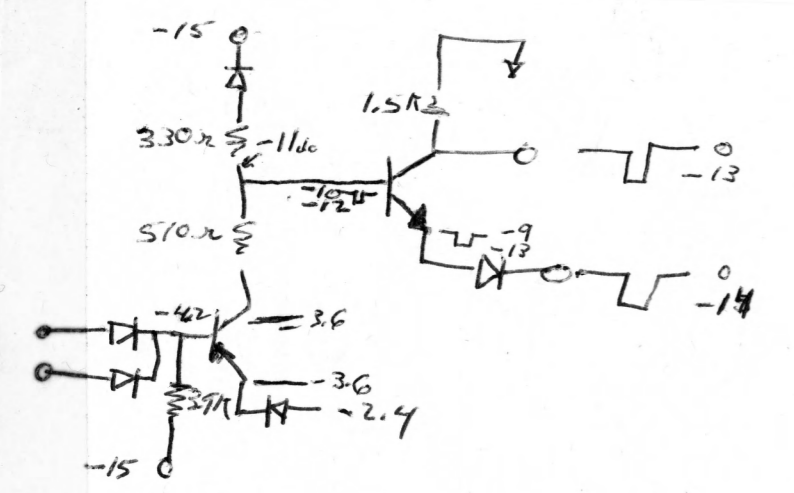
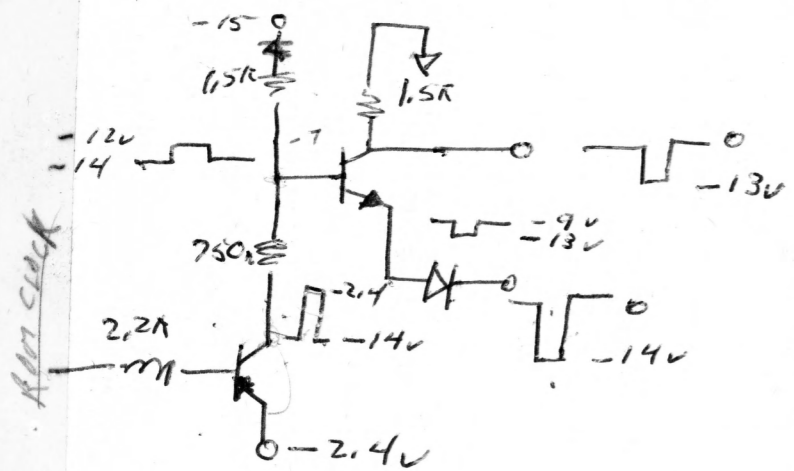
ITEM	QTY	DESCRIPTION	PART NO.	DWG NO.	MATERIAL
ENG. RESP. - DIV UNLESS OTHERWISE NOTED - TOLERANCES - 0.XX ± 0.02    0.XXX ± 0.005 ANGULAR = MACHINED SURFACES <input checked="" type="checkbox"/> 63 - DO NOT SCALE -					
DRAWN B. J. [Signature]		DATE 6-7-69	TITLE 9100B PAGE 1	HEWLETT	
APPROVED		INST. BOARD			
SUPERSEDES		FINISH	SCALE		





ENG RESP - DIV.	ITEM	QTY	DESCRIPTION	PART NO.	DWG NO.	M
UNLESS OTHERWISE NOTED - TOLERANCES -	DRAWN	DATE	TITLE			
0.XX ± 0.02    0.XXX ± 0.005	<i>Bill Alay</i>	1-9-69	9100B PAGE 2			
ANGULAR ±	ENGINEER		INST. BOARD			
MACHINED SURFACES $\frac{63}{\sqrt{16}}$	APPROVED					
DO NOT SCALE	SUPERSEDES		FINISH	SCALE		





9100B RIGHT SIDE BOARD-EXPANDER  
09100-66508



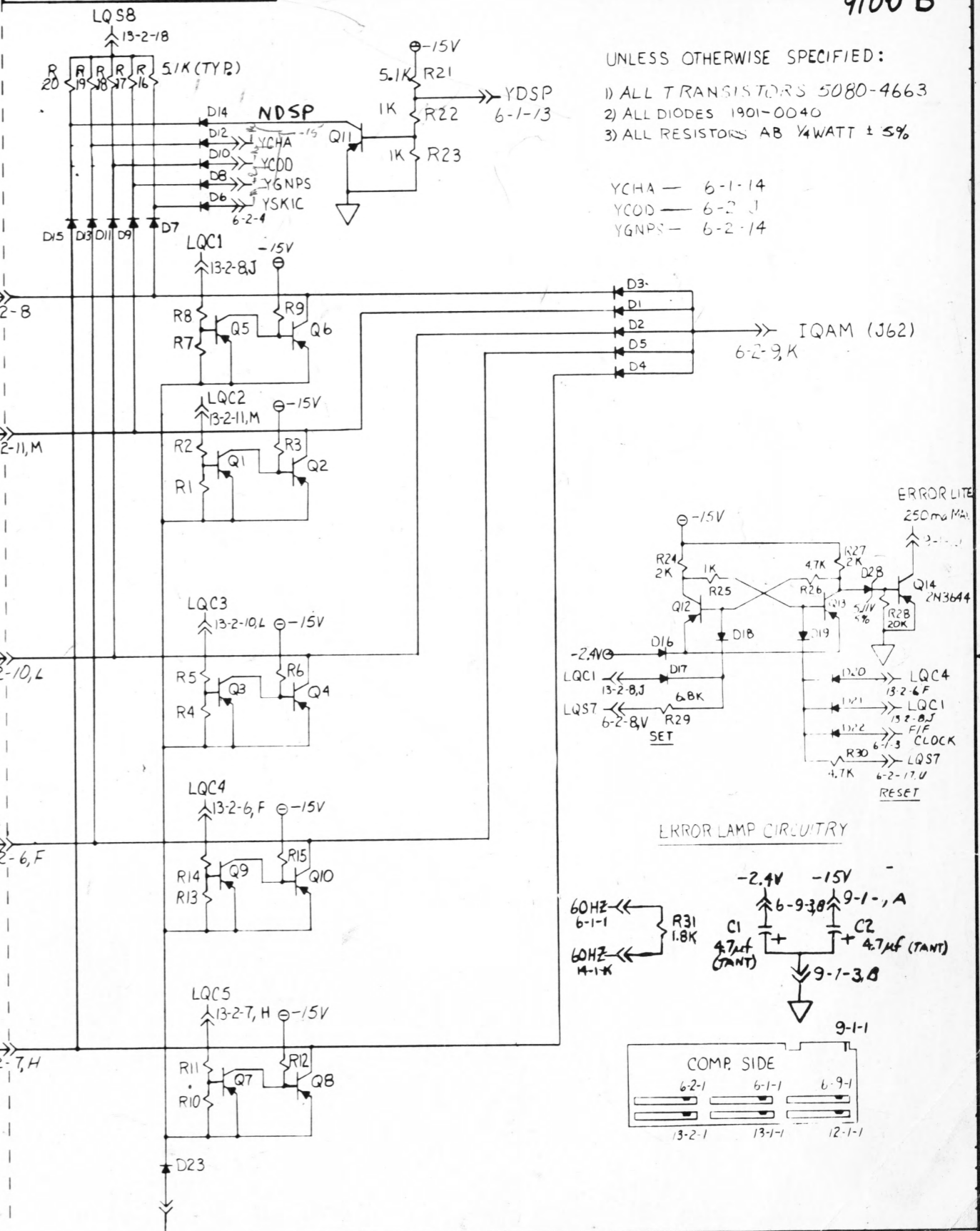
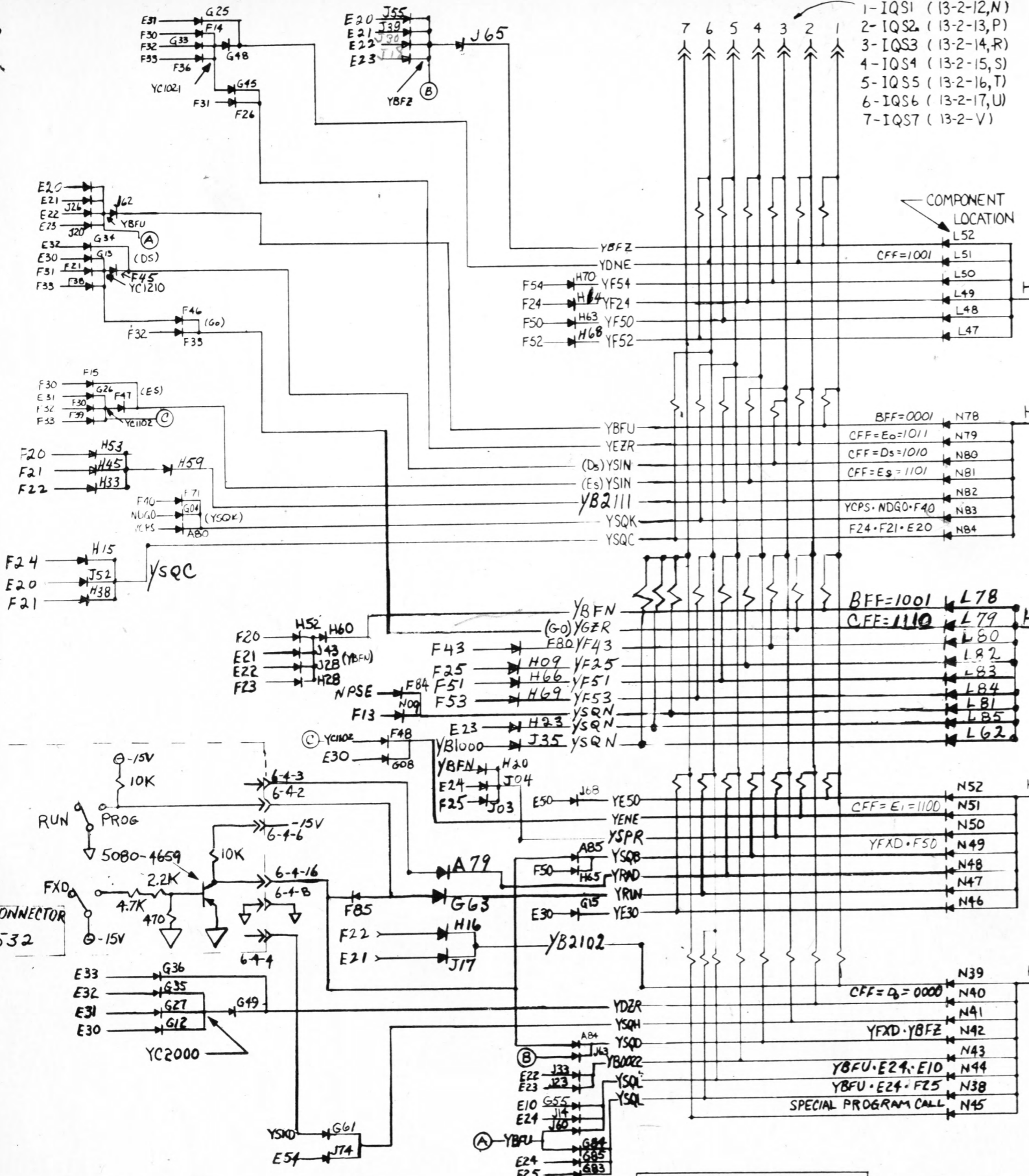
REV	REVISIONS	APPROVED	DATE

LEFT SIDE BOARD (QUALIFIER)  
09100-66509

- 1-IQS1 (13-2-12,N)
- 2-IQS2 (13-2-13,P)
- 3-IQS3 (13-2-14,R)
- 4-IQS4 (13-2-15,S)
- 5-IQS5 (13-2-16,T)
- 6-IQS6 (13-2-17,U)
- 7-IQS7 (13-2-V)

UNLESS OTHERWISE SPECIFIED:  
 1) ALL TRANSISTORS 5080-4663  
 2) ALL DIODES 1901-0040  
 3) ALL RESISTORS AB 1/4WATT ± 5%

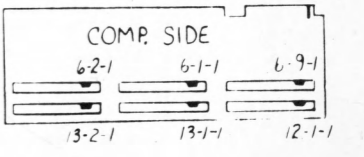
YCHA — 6-1-14  
 YCOD — 6-2-J  
 YGNPS — 6-2-14



INSTRUCTION LOGIC BOARD  
09100-66556

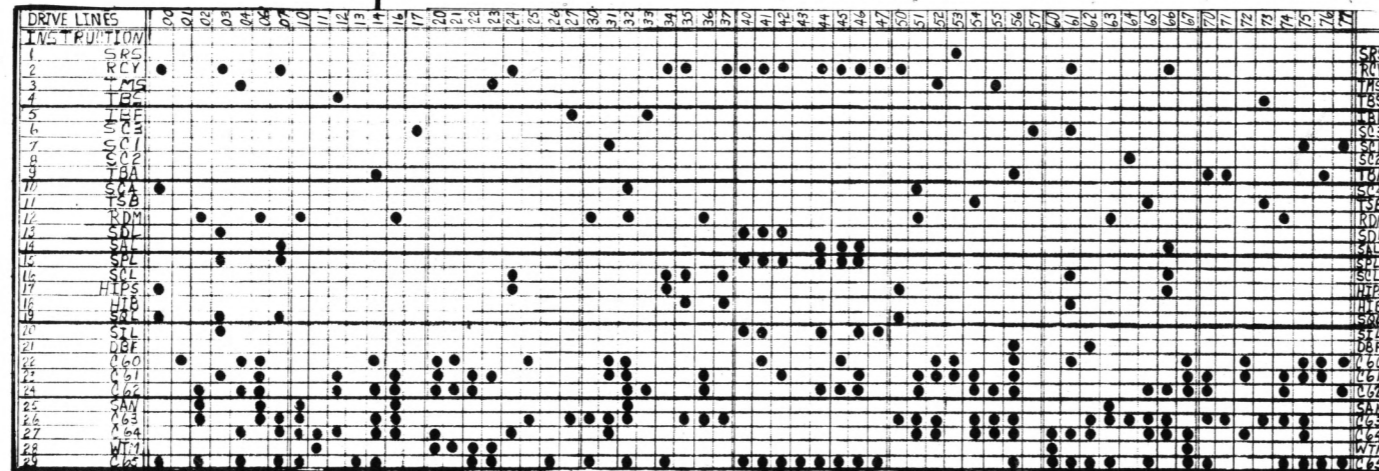
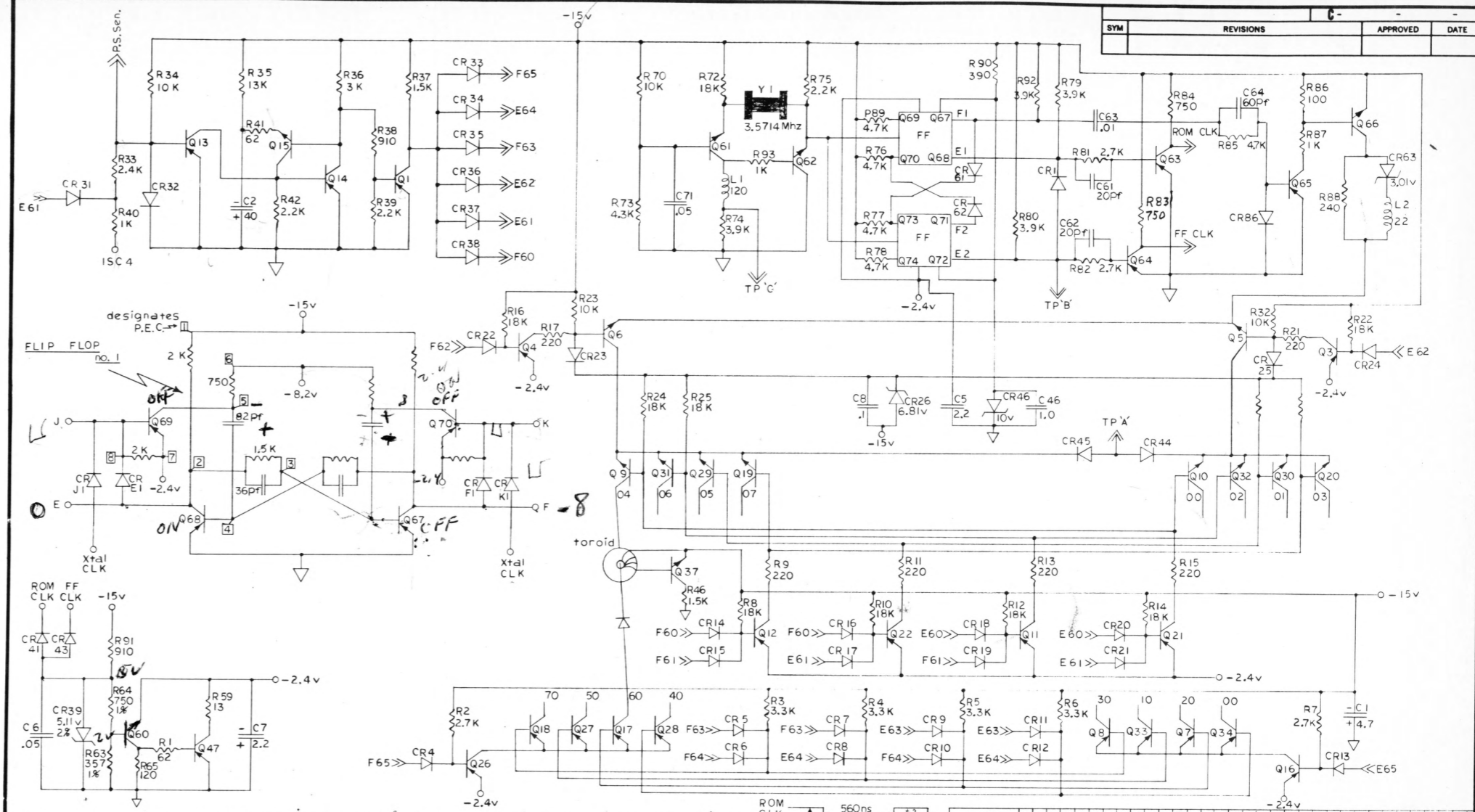
KEY BOARD CONNECTOR  
09100-66532

ENG. RESP. — DW	DATE	DESCRIPTION	PART NO.	OWG. NO.	DATE SPEC.
UNLESS OTHERWISE NOTED — TOLERANCES — 0.0X ± 0.02 0.0XX ± 0.005 ANGULAR ± MACHINED SURFACES $\frac{AS}{\checkmark}$ — DO NOT SCALE —	6-2-9	LEFT SIDE BOARD & QUALIFIER CIRCUITRY 5564 509 BOARDS			
APPROVED	AL HOWARD ENGINEER				
SUPERSEDES					





SYM	REVISIONS	APPROVED	DATE

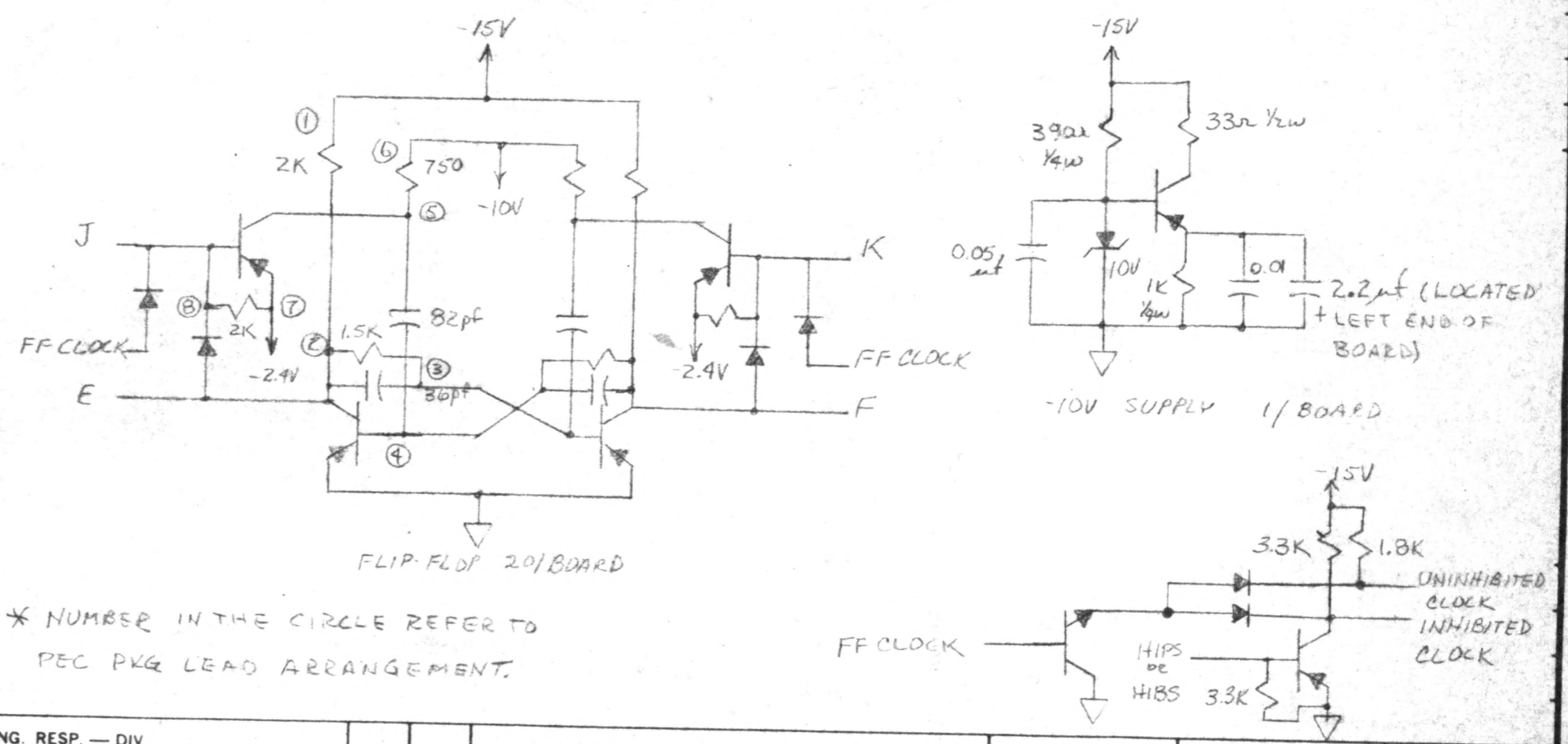


TERMINAL	RESISTOR	RESISTOR VALUE
R50	R50	1.5K
R51	R51	1.5K
R52	R52	1.5K
R53	R53	1.5K
R54	R54	1.5K
R55	R55	1.5K
R56	R56	1.5K
R57	R57	1.5K

ITEM	QTY	DESCRIPTION	PART NO.	DWG. NO.	MAT'L SPEC.
AL	1	ALUMINUM			
ENGR	1	ENGINEER			
APPR	1	APPROVED			
SRP	1	SUPERSEDES			



SYM		REVISIONS	APPROVED	DATE

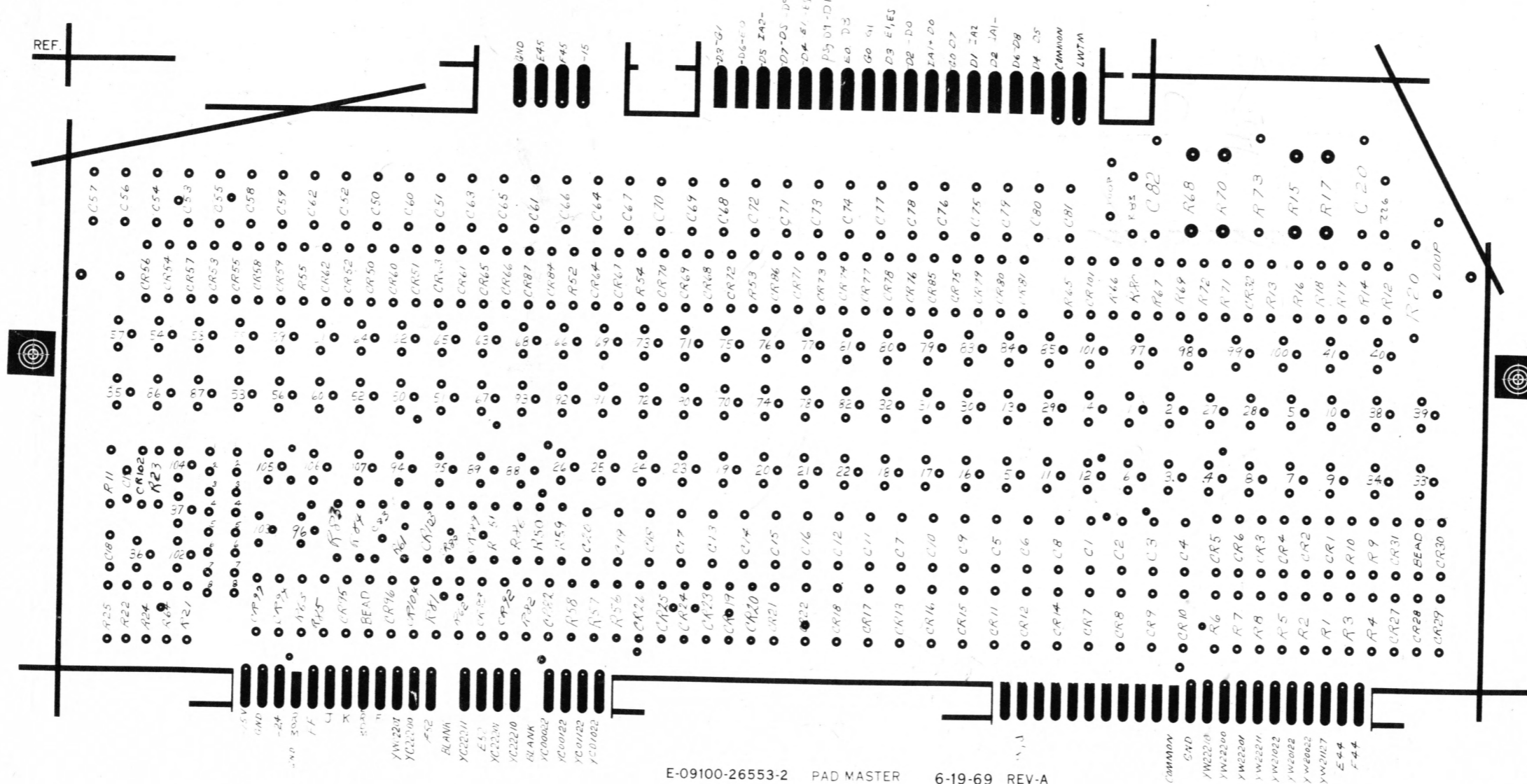


\* NUMBER IN THE CIRCLE REFER TO  
PEC PKG LEAD ARRANGEMENT.

ENG. RESP. — DIV.					
UNLESS OTHERWISE NOTED — TOLERANCES — 0.XX ± 0.02      0.XXX ± 0.005 ANGULAR ± _____ MACHINED SURFACES $\checkmark$ 63 — DO NOT SCALE —	ITEM	QTY	DESCRIPTION	PART NO.	DWG. NO.
	DRAWN JOHN SCOHY		DATE 7-2-68	TITLE J-K FLIP FLOP INHIBIT 10VOLT SUPPLY	
	ENGINEER			HEWLETT  PACKARD LABORATORY INSTRUMENTS	
	APPROVED			NEXT ASSY. A - - -	
SUPERSEDES			FINISH	SCALE	SHEET -

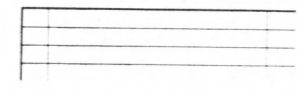


REF



E-09100-26553-2 PAD MASTER 6-19-69 REV-A

- COMMON
- CRD
- YW2220
- YW22200
- YW22204
- YW22207
- YW22202
- YW22203
- YW22207
- E44
- F44

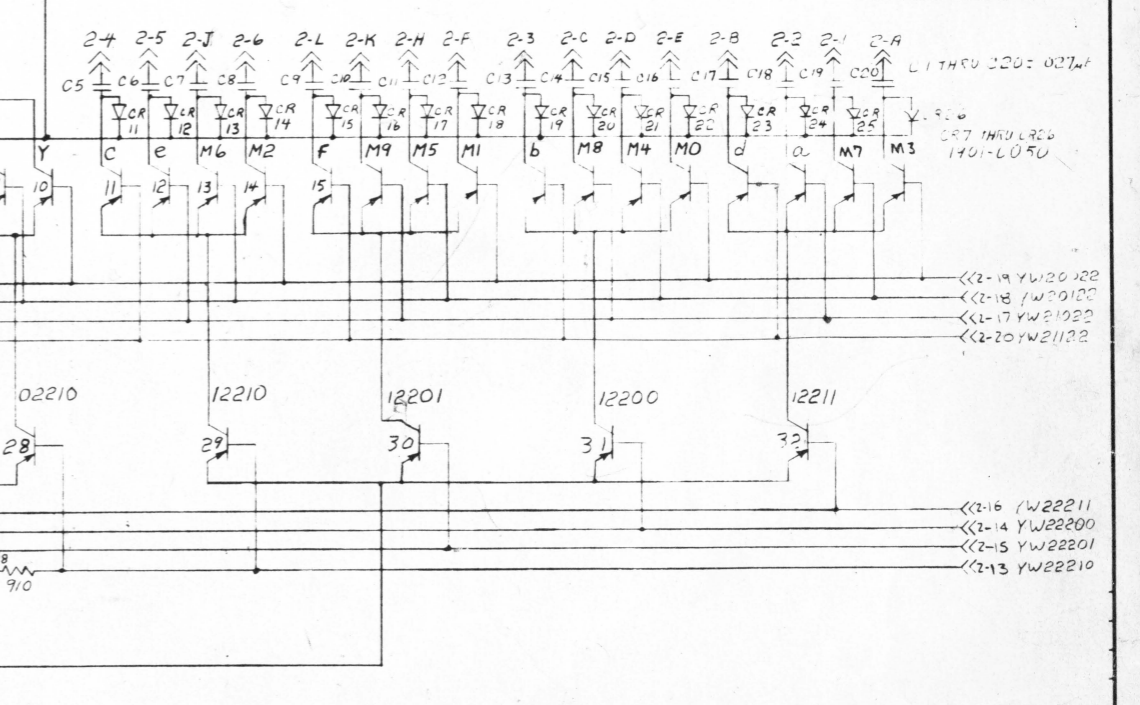
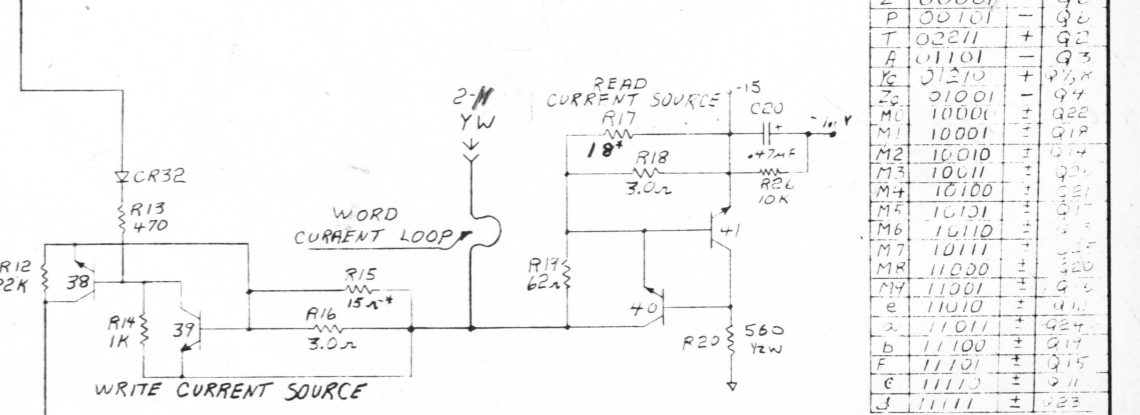
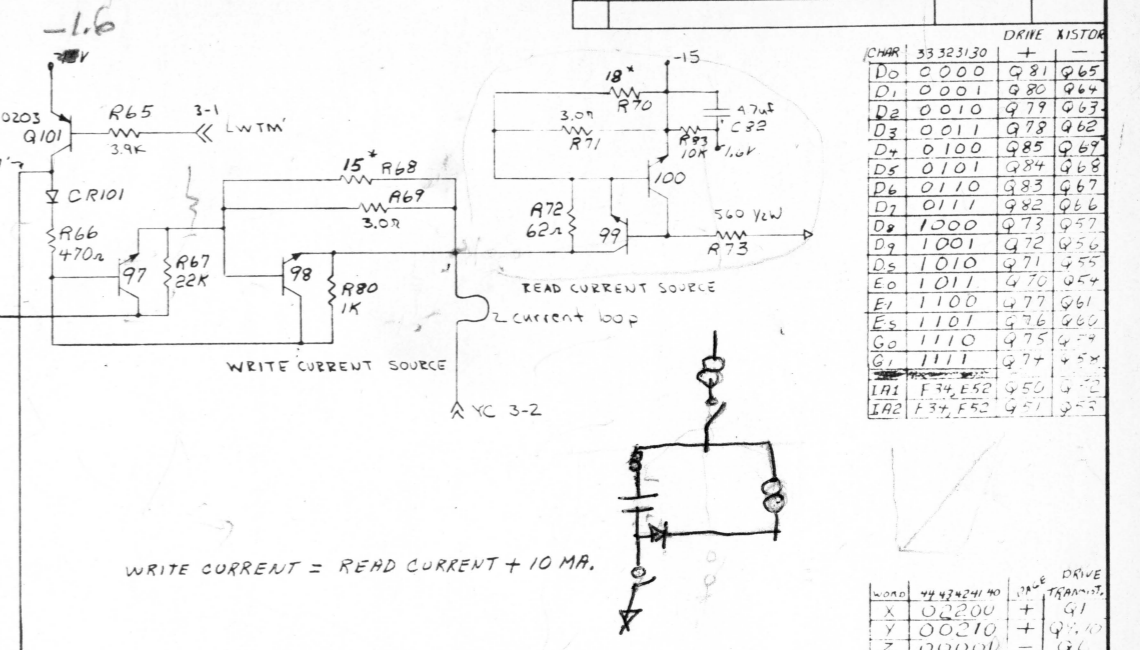
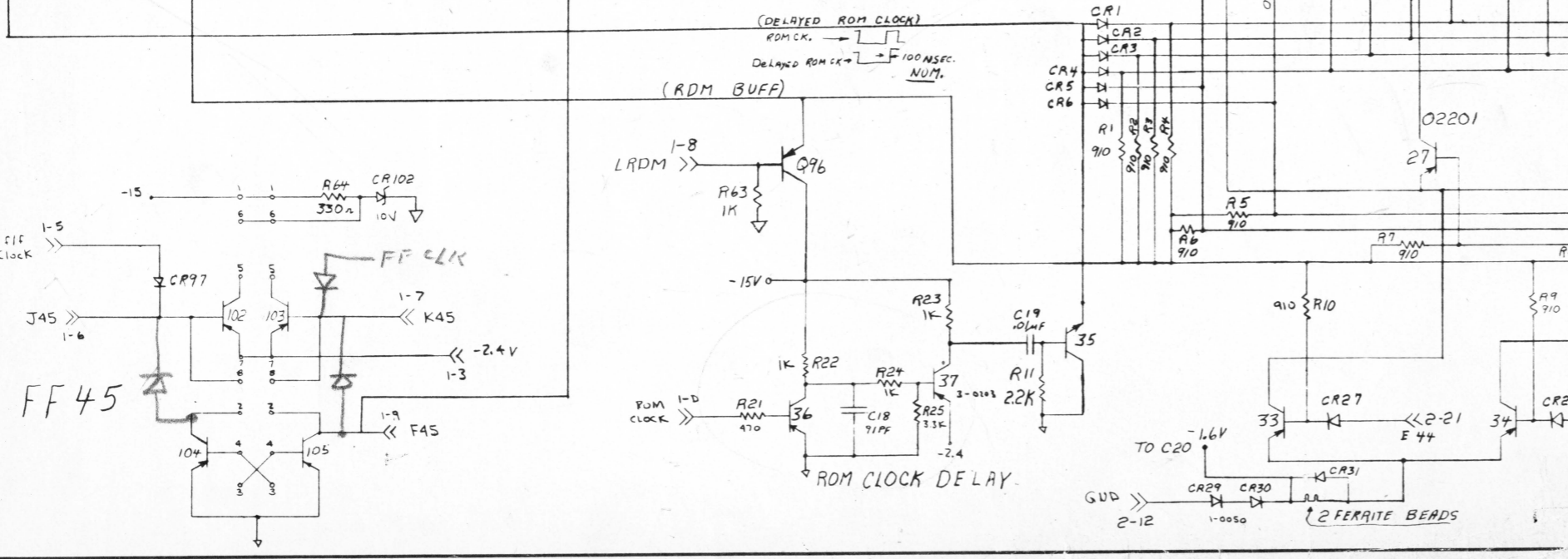
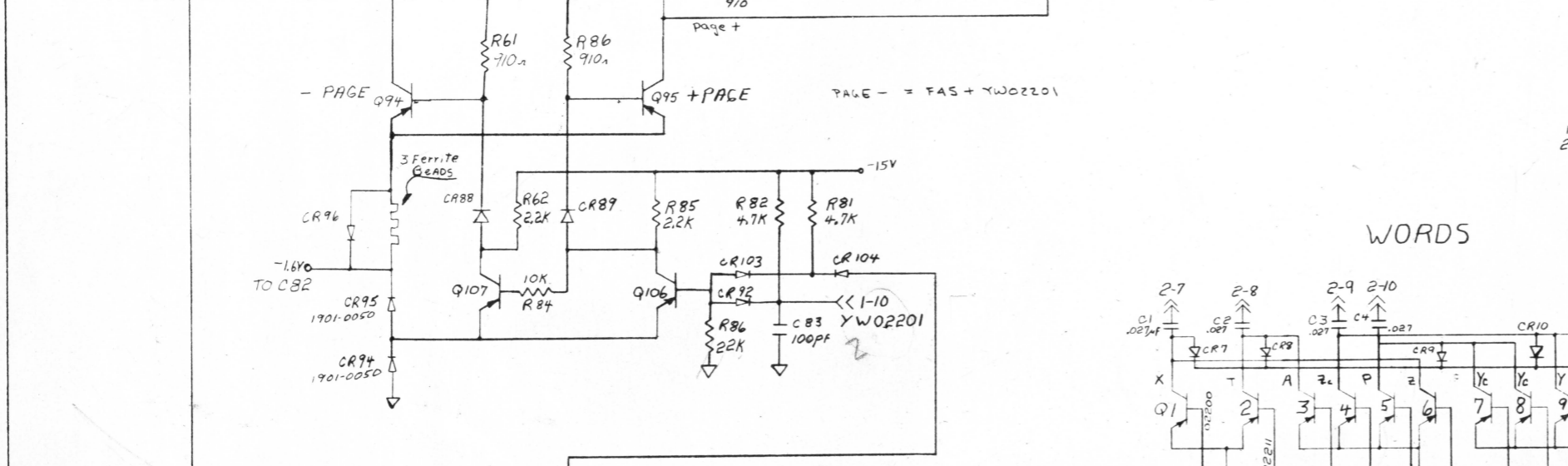
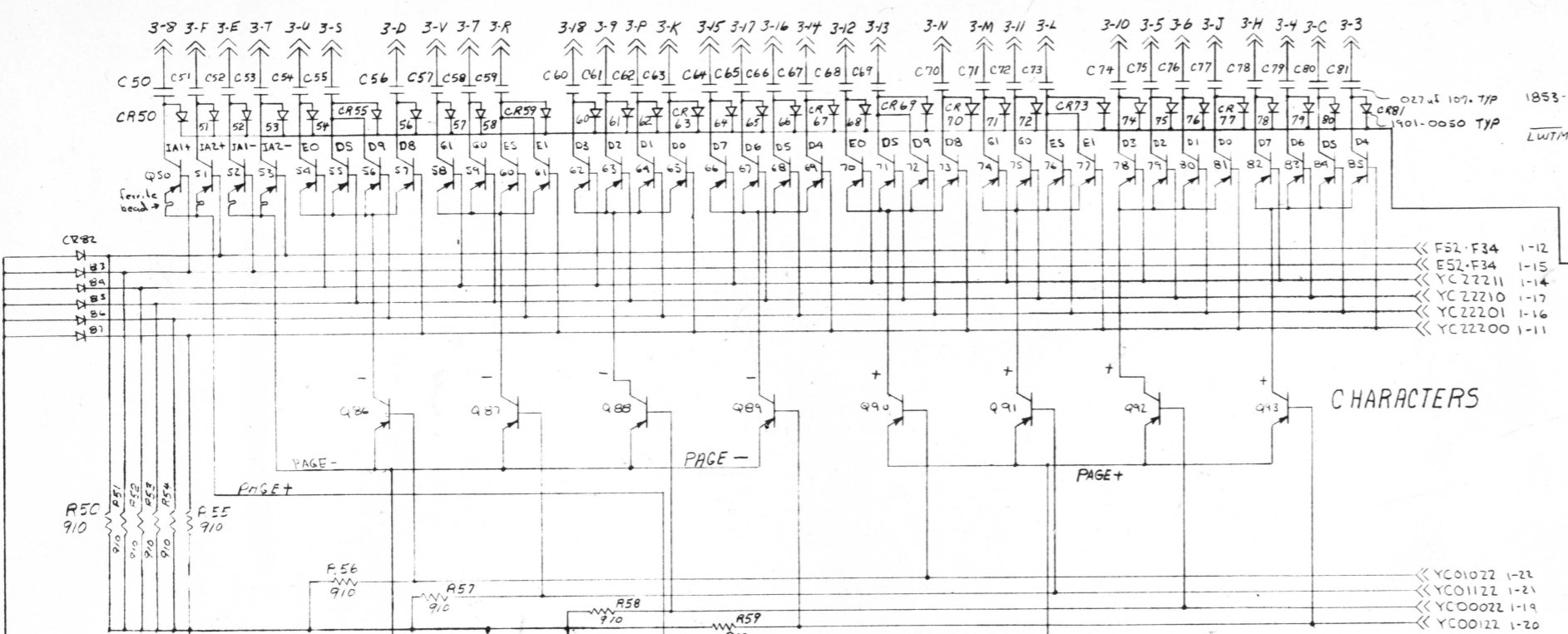




SYM	REVISIONS	APPROVED	DATE

CHAR	33 32 31 30	+	DRIVE
D0	0000	Q 81	Q 65
D1	0001	Q 80	Q 64
D2	0010	Q 79	Q 63
D3	0011	Q 78	Q 62
D4	0100	Q 85	Q 69
D5	0101	Q 84	Q 68
D6	0110	Q 83	Q 67
D7	0111	Q 82	Q 66
D8	1000	Q 73	Q 57
D9	1001	Q 72	Q 56
Ds	1010	Q 71	Q 55
E0	1011	Q 70	Q 54
E1	1100	Q 77	Q 61
E2	1101	Q 76	Q 60
E3	1110	Q 75	Q 59
E4	1111	Q 74	Q 58
G1	F34, E52	Q 50	Q 32
I A2	F34, E52	Q 51	Q 33

Word	44 43 42 41 40	+	DRIVE
X	02200	+	Q 1
Y	00210	+	Q 10
Z	00001	-	Q 6
P	00101	-	Q 2
T	02211	+	Q 2
A	01101	+	Q 3
K	01210	+	Q 4
Zc	01001	-	Q 4
M0	10001	-	Q 22
M1	10001	-	Q 19
M2	10010	-	Q 14
M3	10011	-	Q 21
M4	10100	-	Q 21
M5	10101	-	Q 15
M6	10110	-	Q 15
M7	10111	-	Q 15
M8	11000	-	Q 20
M9	11001	-	Q 20
e	11010	-	Q 11
2	11011	-	Q 24
b	11100	-	Q 14
F	11101	-	Q 15
G	11110	-	Q 11
J	11111	-	Q 23

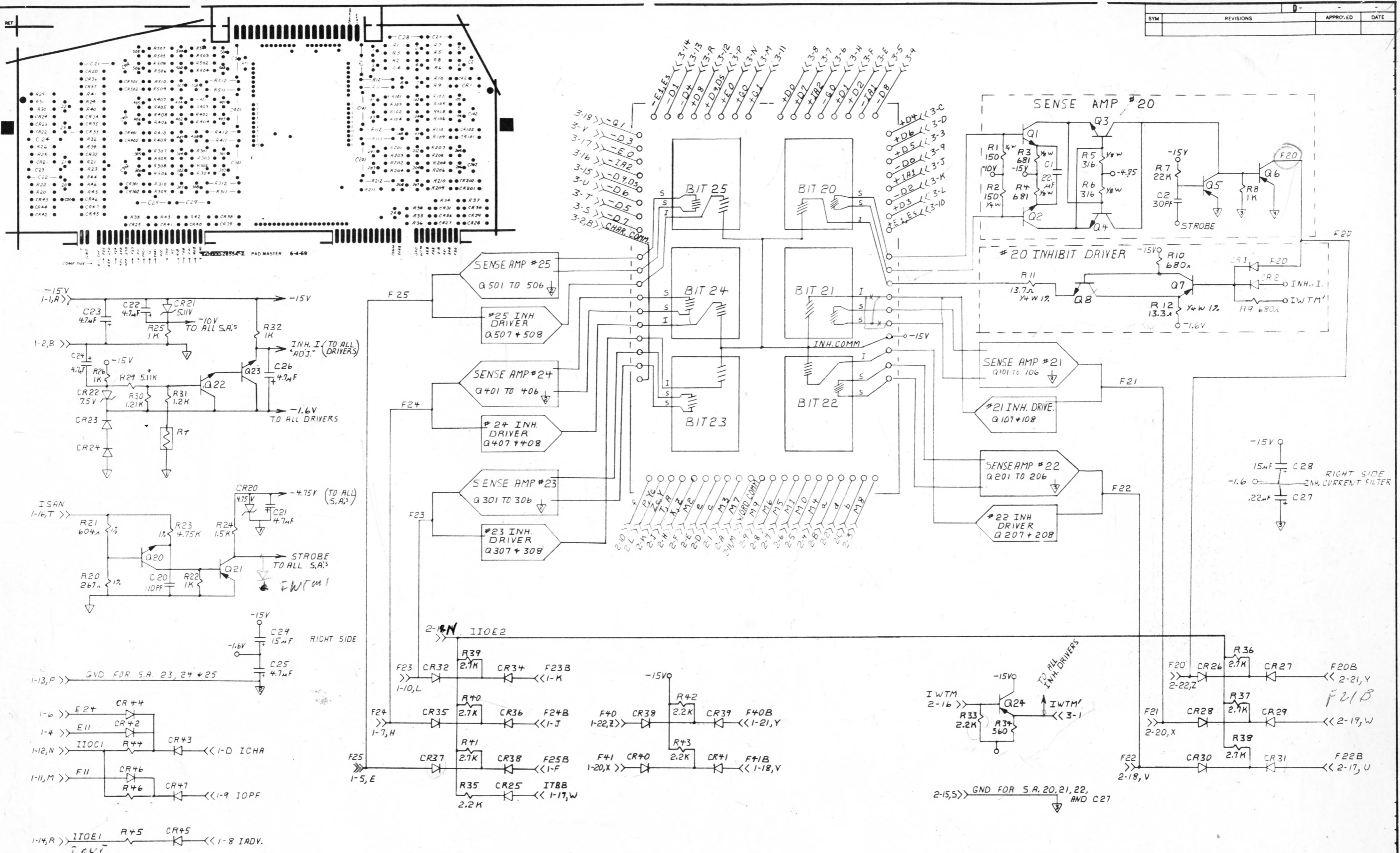


ITEM	QTY	DESCRIPTION	PART NO.	DWG NO.	MAT'L SPEC.
1	1	WORD AND CHARACTER DRIVERS	9100 B		
2	1	FINISH			
3	1	SCALE			

ENG. RESP. - DIV. 9  
 UNLESS OTHERWISE NOTED - TOLERANCES -  
 0.XX ± 0.02    0.XXX ± 0.005  
 ANGULAR ±  
 MACHINED SURFACES  $\sqrt{63}$   
 - DO NOT SCALE -



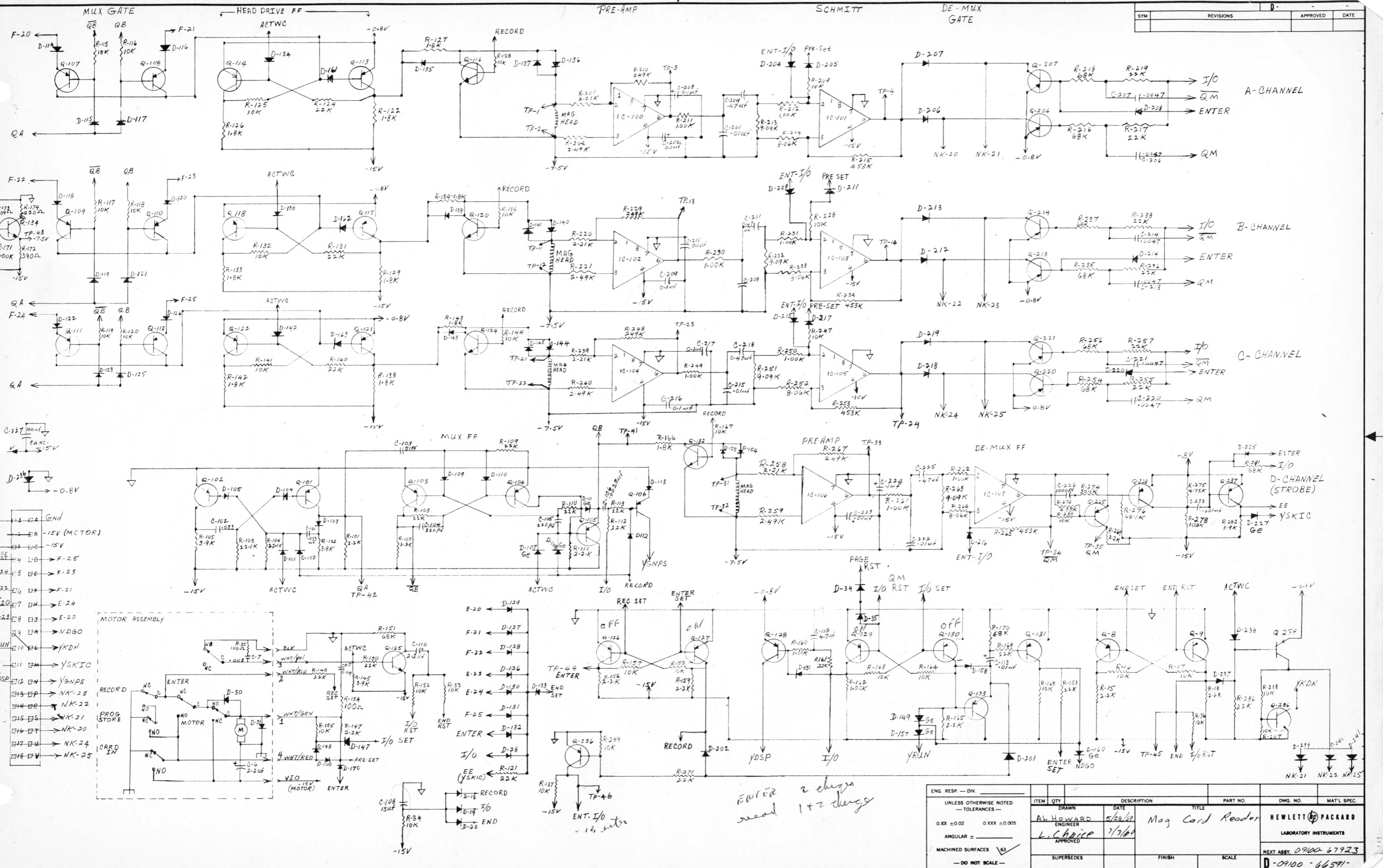
SYM	REVISIONS	APPROVED	DATE



ENG. RESP. - DIV. 9	ITEM	QTY	DESCRIPTION	PART NO.	DWG. NO.	MAT'L SPEC.
UNLESS OTHERWISE NOTED - TOLERANCES -	DRAWN	DATE	TITLE			
0.XX ± 0.02    0.XXX ± 0.005	BILL THAYER	7-30-69	9100B SENSE AND INHIBIT AMP.		NEWLETT-PACKARD	
ANGULAR ±	ENGINEER	7/30/69	+ CORE PLANE.		LABORATORY INSTRUMENTS	
MACHINED SURFACES ✓	APPROVED				NEXT ASSY.	
- DO NOT SCALE -	SUPERSEDES			FINISH	SCALE	D-09100 -66554-



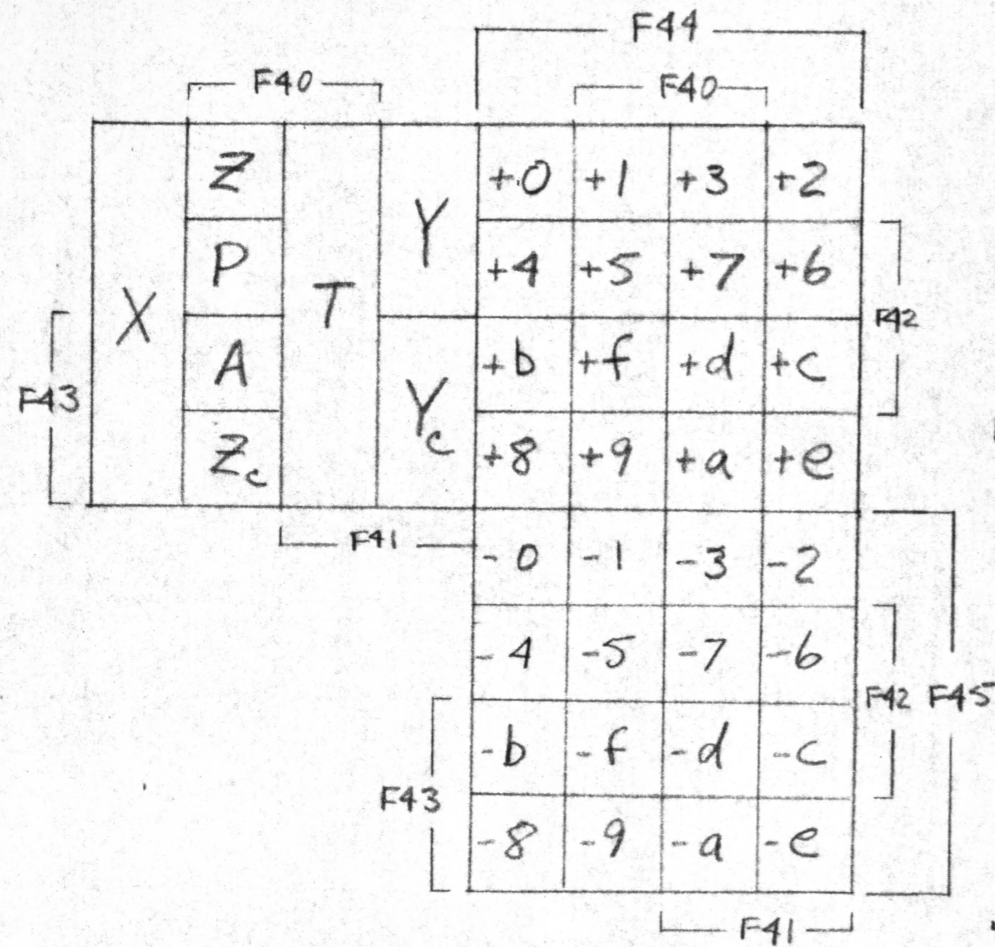
SYM	REVISIONS	APPROVED	DATE



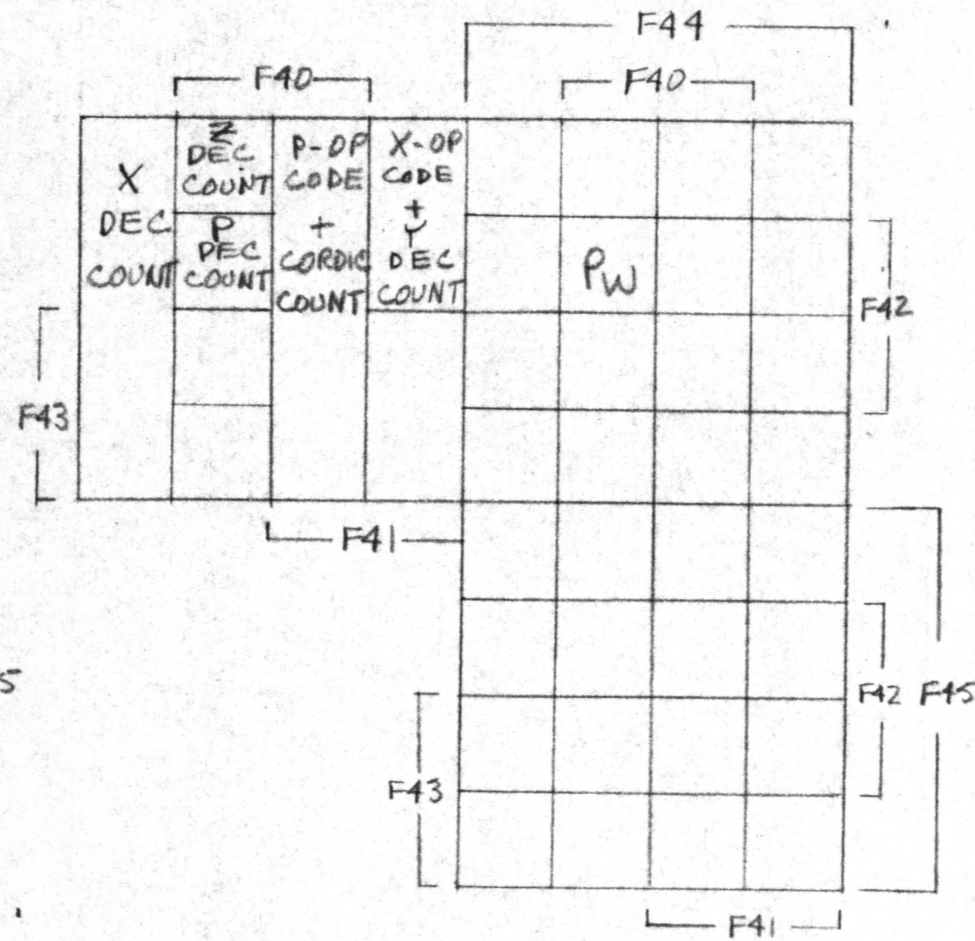
- GA Gnd
- EB -15V (MOTOR)
- LD -15V
- F-25
- EE F-23
- F-21
- E-24
- E-20
- NDGO
- YKDN
- YSKIC
- YGNPS
- NK-23
- NK-21
- NK-20
- NK-24
- NK-25

ENG. RESP. — DIV.	ITEM	QTY	DESCRIPTION	PART NO.	DWG. NO.	MAT'L SPEC.
UNLESS OTHERWISE NOTED — TOLERANCES —	AL	HOWARD	5/29/60	Mag Card Reader	HEWLETT-PACKARD	LABORATORY INSTRUMENTS
0.XX ± 0.02 0.XXX ± 0.005	L	CHOICE	7/3/60			
ANGULAR ±						
MACHINED SURFACES $\sqrt{32}$						
— DO NOT SCALE —						
	SUPERSEDES		FINISH	SCALE		
						NEXT ASSY. 09100-67923
						D-09100-66591-

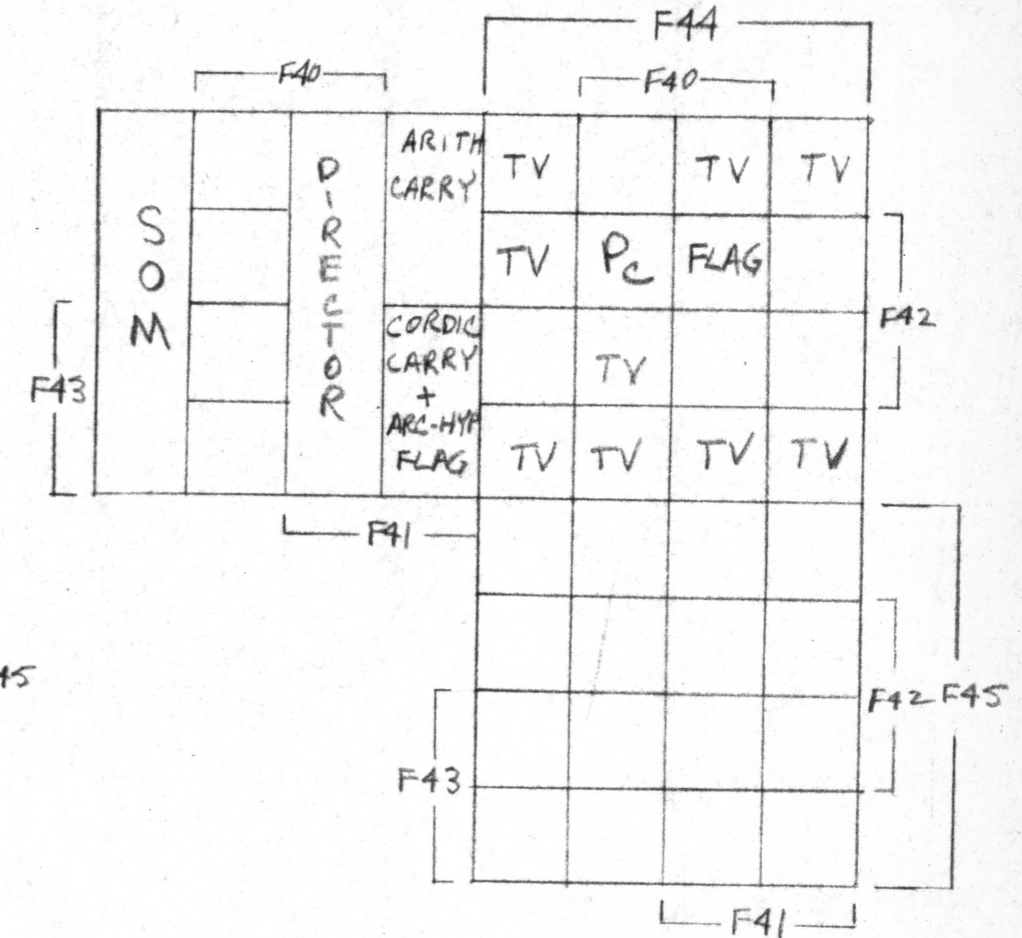




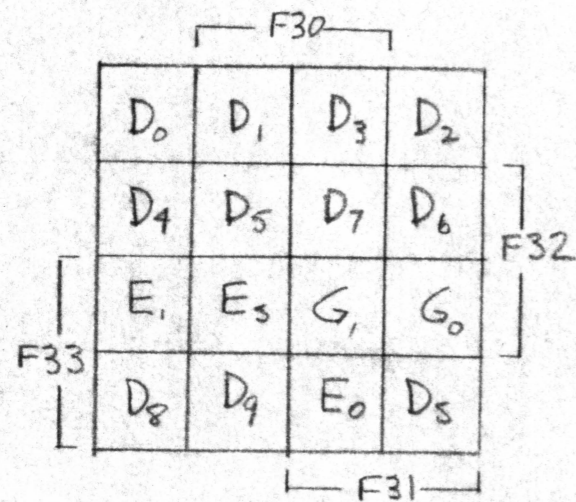
REGISTER MAP



F34.E52  
INSTANT ACCESS 1



F34.F52  
INSTANT ACCESS 2



CHARACTER MAP  
E34

OCTAL WORD CHARACTER

12	11	10	7	6	5	4	3	2	1	0	17	16	15	14	13
e	9	8	7	6	5	4	3	2	1	0	d	c	f	b	a
D <sub>5</sub>	D <sub>9</sub>	D <sub>8</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	G <sub>1</sub>	G <sub>0</sub>	E <sub>3</sub>	E <sub>1</sub>	E <sub>0</sub>

ENG. RESP. — DIV.					
UNLESS OTHERWISE NOTED — TOLERANCES — 0.XX ±0.02      0.XXX ±0.005 ANGULAR ± _____ MACHINED SURFACES    ✓ 63 — DO NOT SCALE —	ITEM	QTY	DESCRIPTION	PART NO.	DWG. NO.
	DRAWN Rick Spangler ENGINEER	DATE 5-5-69	TITLE 9100 B CORE MAP		
	APPROVED				
	SUPERSEDES		FINISH	SCALE	NEXT ASSY.
					B - - -