

6741 VAREL AVENUE - CANOGA PARK - CALIFORNIA 91303 - PHONE: (213) 348-1391

SCHEMATIC AND  
LOGIC DIAGRAMS  
MODEL FD360

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DRAWING NUMBERS PCS

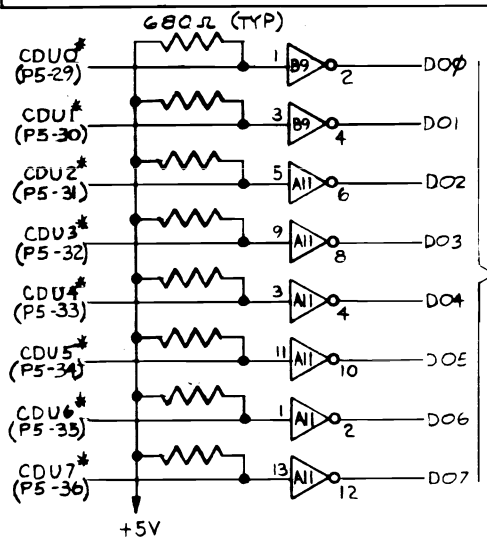
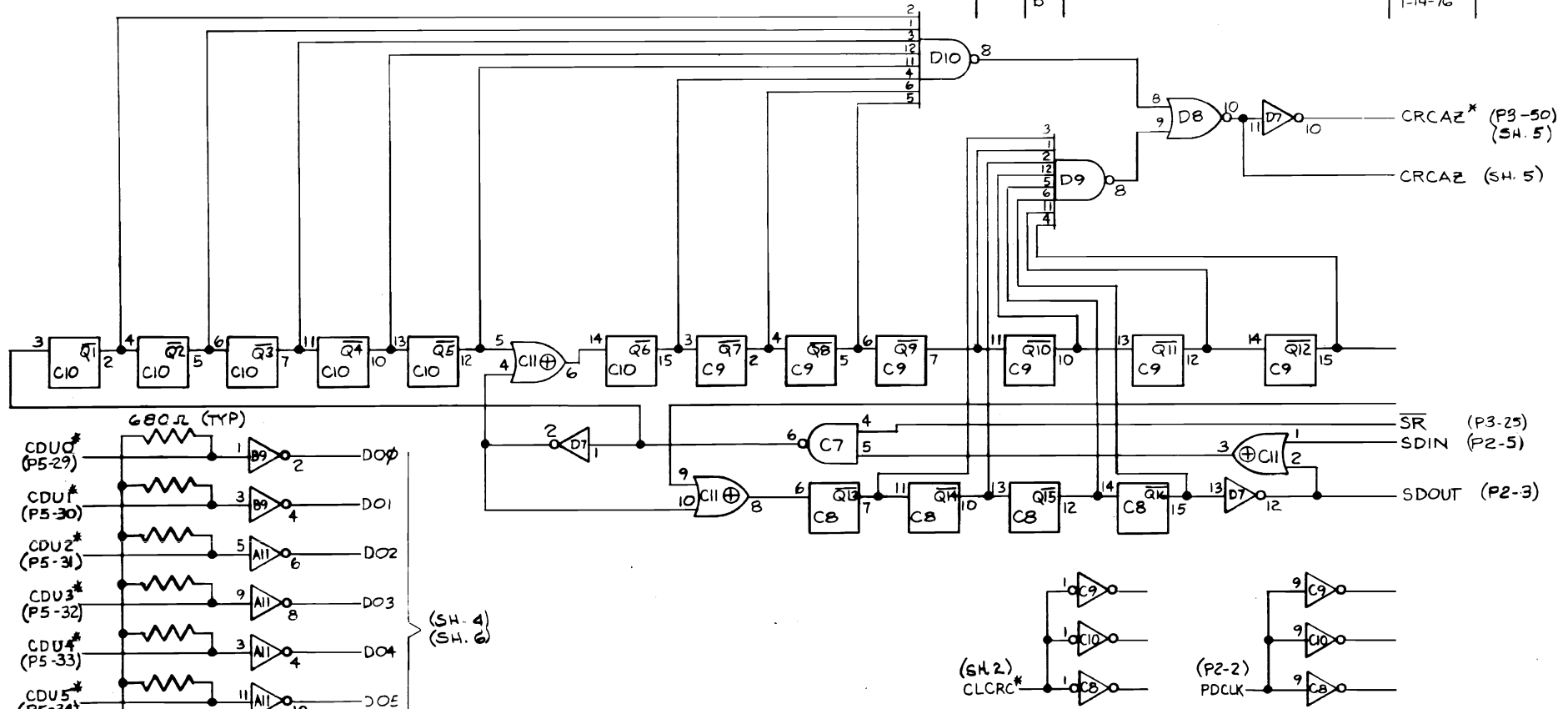
Z1 200028-200

Z2 200028-201

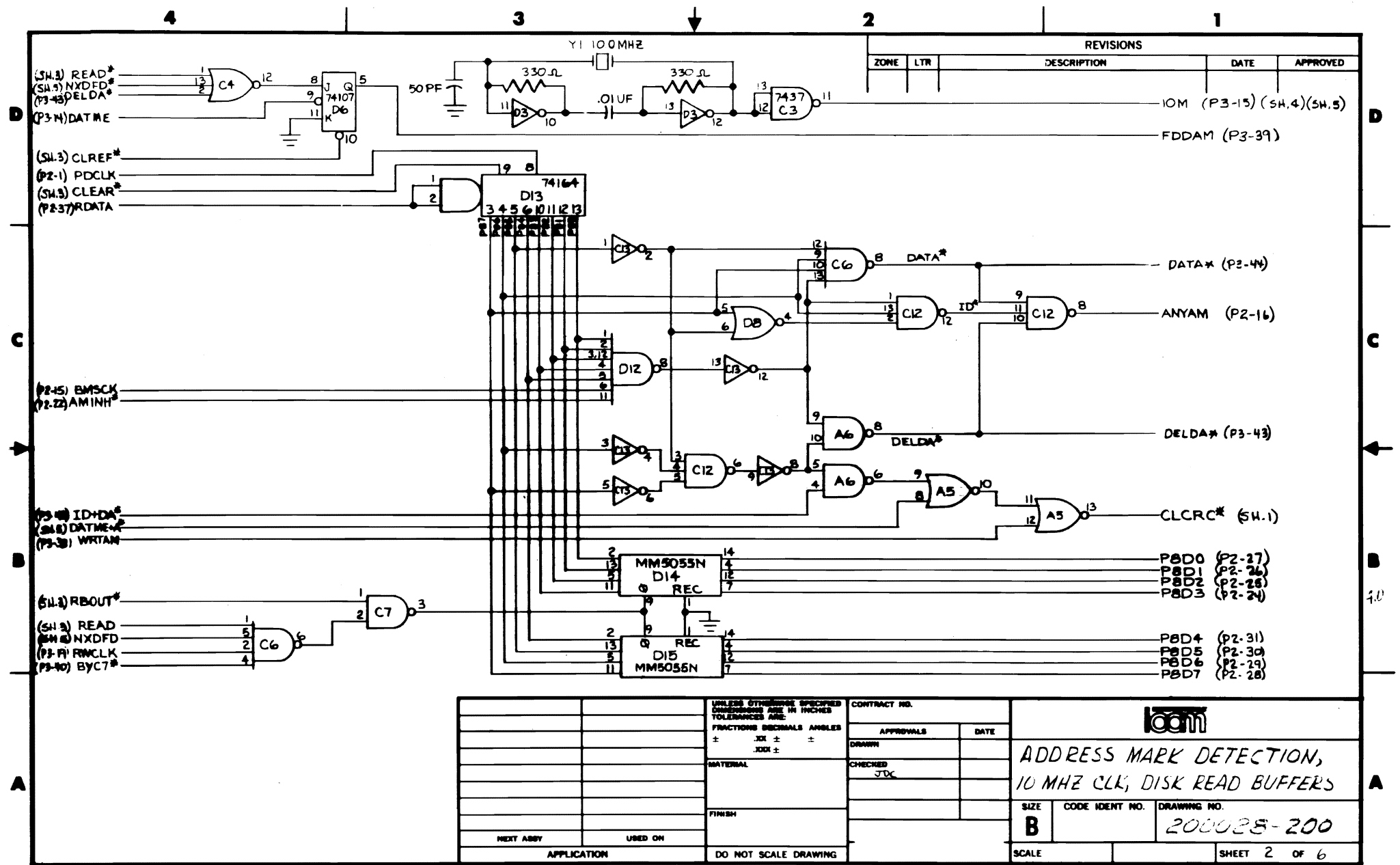
Mux 200012-200

March 1976

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	B		1-14-76	

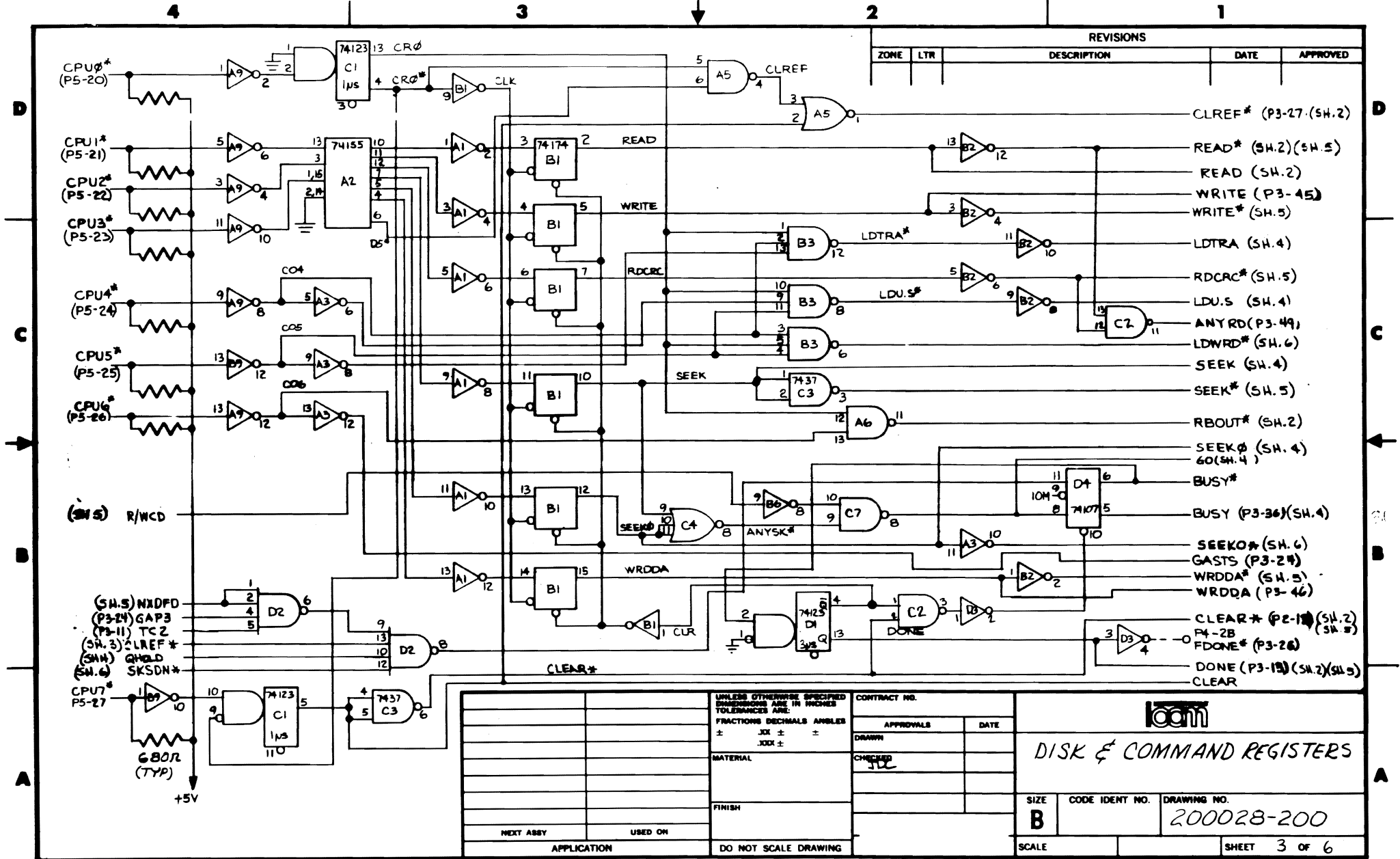


		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± .XXX ±	CONTRACT NO.		
			APPROVALS	DATE	
		MATERIAL	CHECKED		<b>CRC REGISTER AND 21 DATA BUFFER (FROM CRC)</b>
		FINISH	JDC		
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING	SCALE	SIZE <b>B</b> CODE IDENT NO. DRAWING NO. 200028-200
				SHEET 1 OF 6	



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		10M (P3-15) (SH.4) (SH.5)		
		FDDAM (P3-39)		

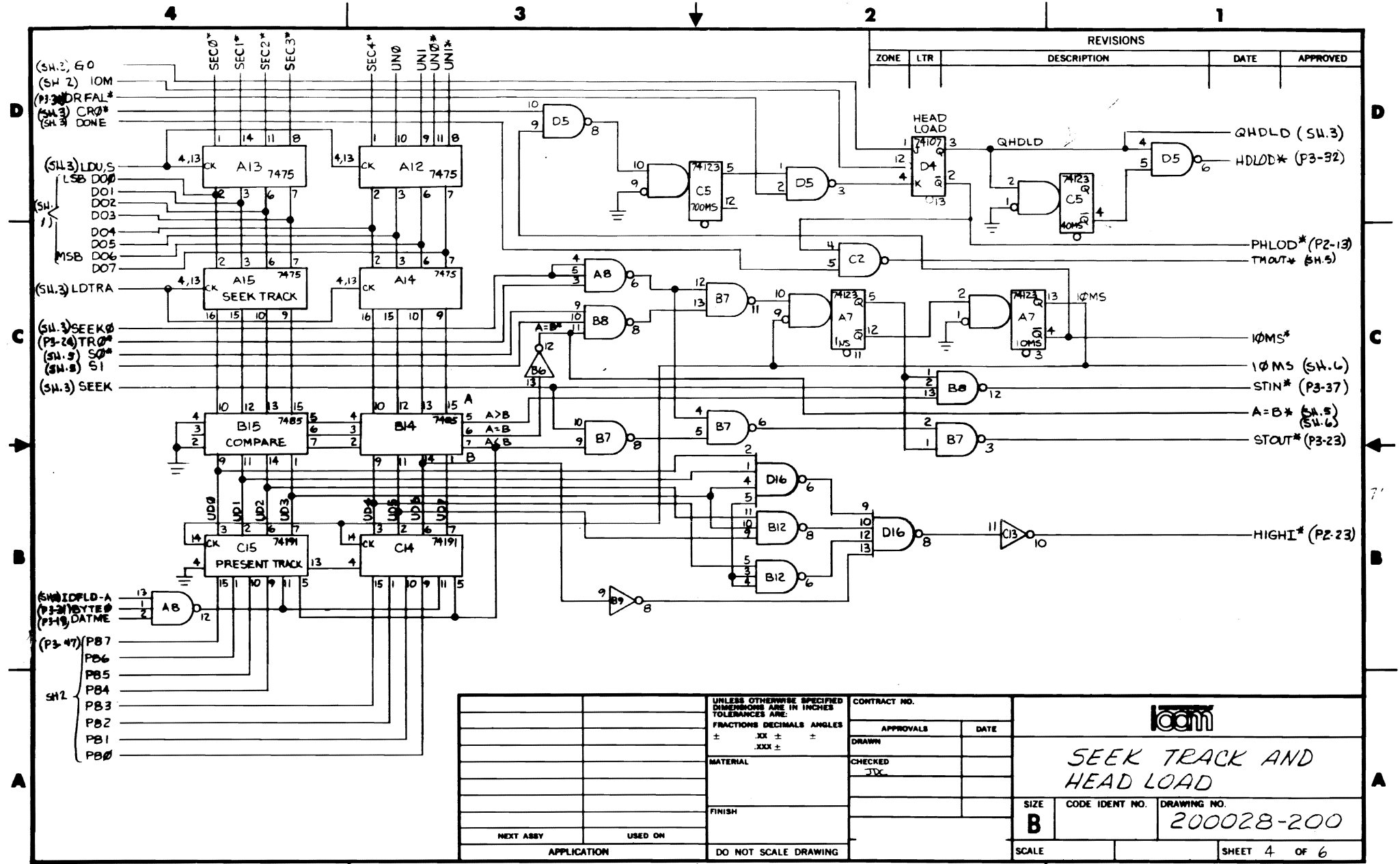
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± ± .XXX ±		CONTRACT NO.		
MATERIAL		APPROVALS		
FINISH		CHECKED JDC	ADDRESS MARK DETECTION, 10 MHZ CLK, DISK READ BUFFERS	
NEXT ASSY	USED ON	SIZE <b>B</b> CODE IDENT NO. DRAWING NO. 200025-200		
APPLICATION		SCALE		SHEET 2 OF 6



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

- CLR\* (P3-27)(SH.2)
- READ\* (SH.2)(SH.5)
- READ (SH.2)
- WRITE (P3-45)
- WRITE\* (SH.5)
- LDTRA (SH.4)
- RDCRC\* (SH.5)
- LDUS (SH.4)
- ANYRD (P3-49)
- LDWRD\* (SH.6)
- SEEK (SH.4)
- SEEK\* (SH.5)
- RABOUT\* (SH.2)
- SEEKφ (SH.4)
- 60 (SH.4)
- BUSY\*
- BUSY (P3-36)(SH.4)
- SEEKφ\* (SH.6)
- GASTS (P3-24)
- WRDDA\* (SH.5)
- WRDDA (P3-46)
- CLEAR\* (P2-18)(SH.2)
- P4-2B (SH.5)
- FDONE\* (P3-26)
- DONE (P3-19)(SH.2)(SH.5)
- CLEAR

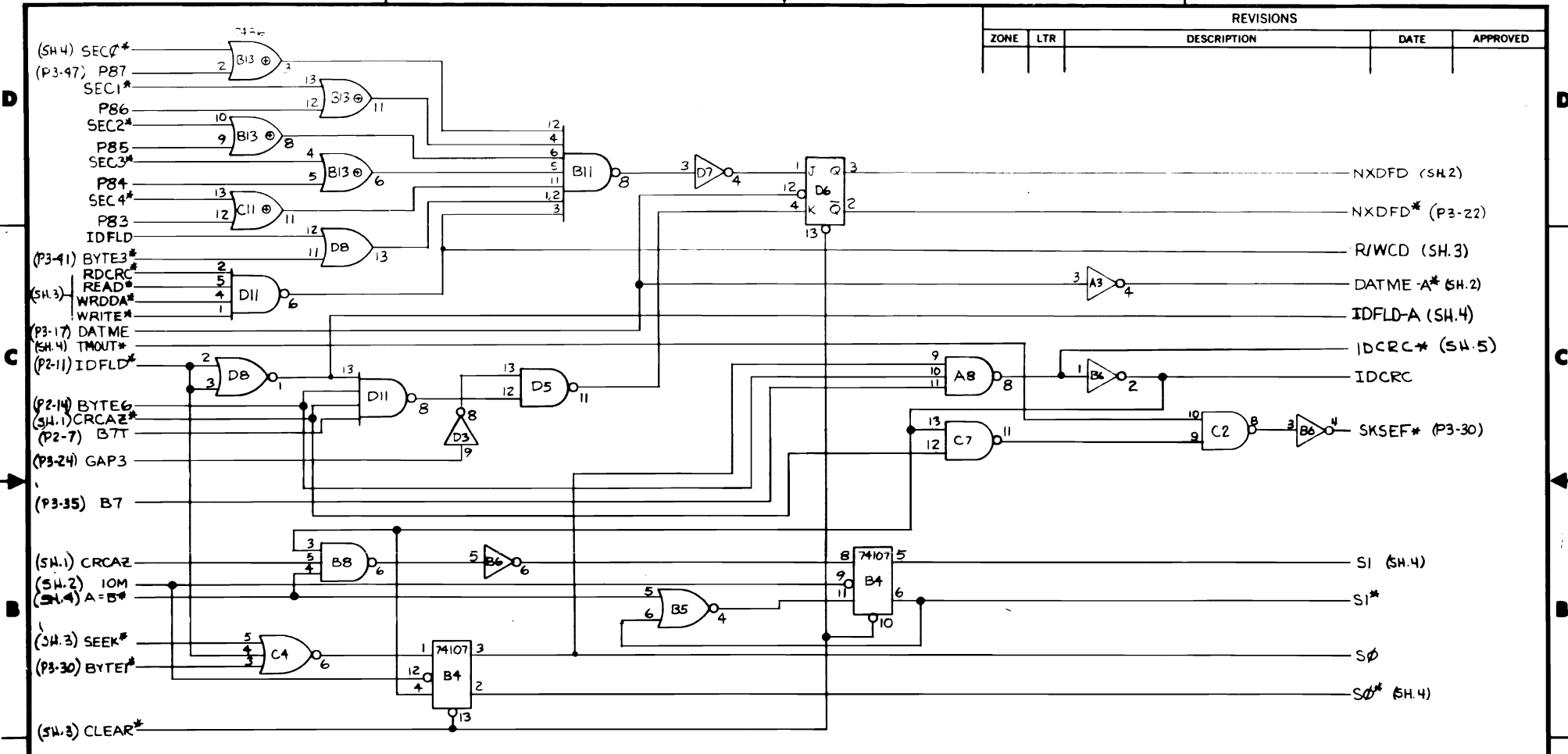
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MATERIAL		APPROVALS			
FINISH		DATE		DISK & COMMAND REGISTERS	
NEXT ASSY		DRAWN			
USED ON		CHECKED		SIZE	
APPLICATION		DO NOT SCALE DRAWING		CODE IDENT NO.	
				DRAWING NO.	
				200028-200	
				SCALE	
				SHEET 3 OF 6	




REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

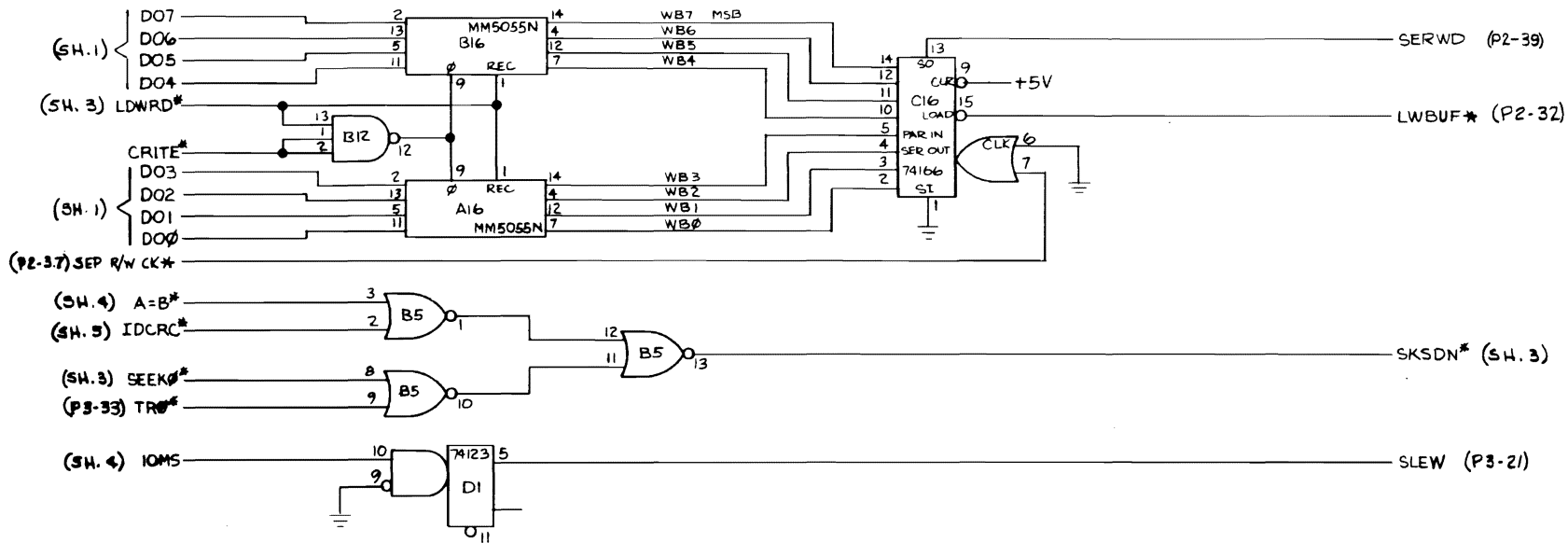
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± .XXX ±		CONTRACT NO.		
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN	CHECKED	SEEK TRACK AND HEAD LOAD
NEXT ASSY USED ON		JXX		
APPLICATION		DO NOT SCALE DRAWING		SIZE <b>B</b>
				CODE IDENT NO.
				DRAWING NO. 200028-200
				SCALE
				SHEET 4 OF 6


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

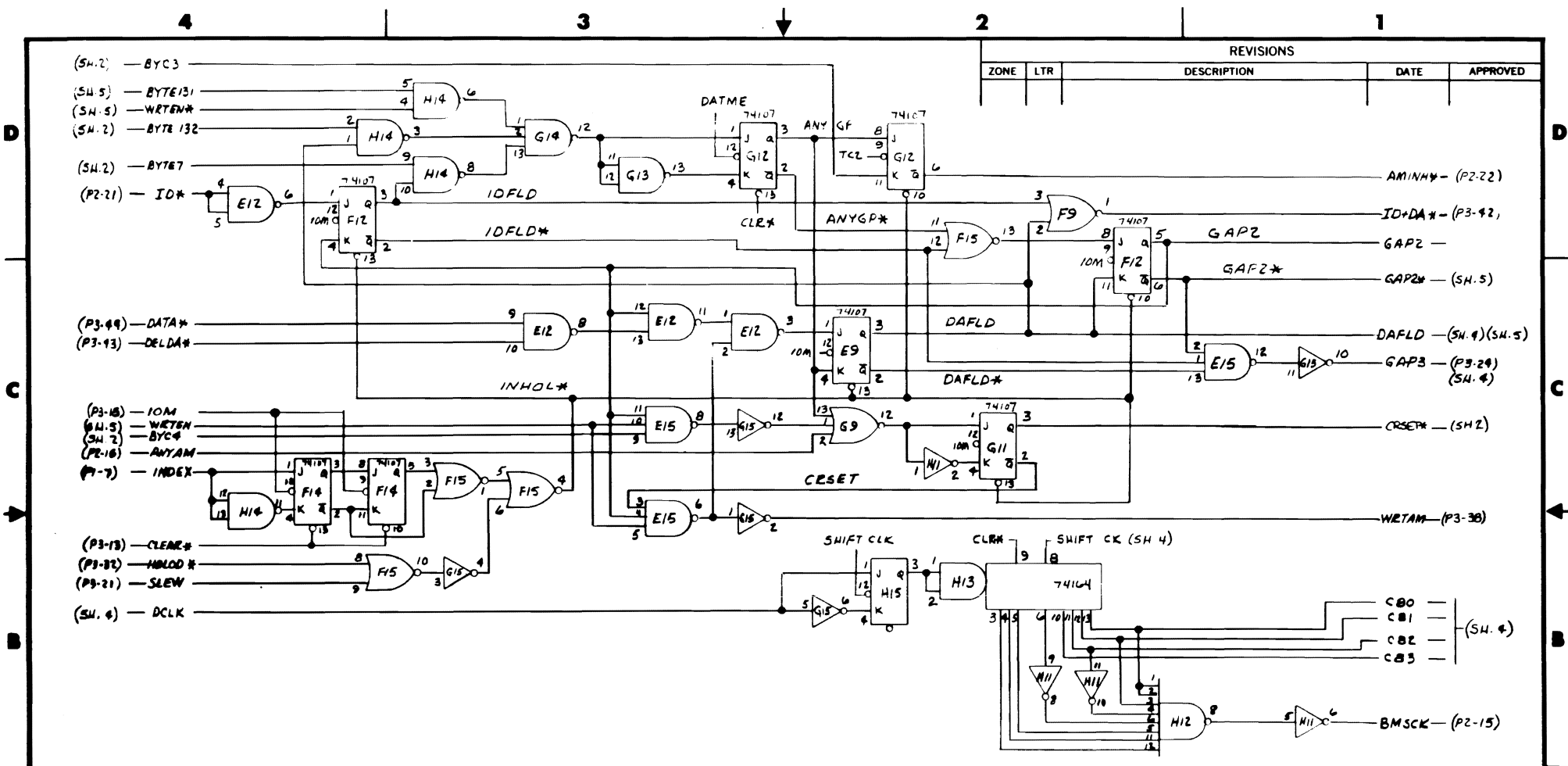


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± ± .XXX ± ±		CONTRACT NO.		 SEEK TRACK, SECTOR SEEK	
MATERIAL		APPROVALS			
FINISH		DRAWN		CHECKED	
NEXT ASSY		USED ON		JDC	
APPLICATION		DO NOT SCALE DRAWING		DRAWING NO. 200028-200	
SCALE		SIZE B		CODE IDENT NO.	
				SHEET 5 OF 6	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		 <b>WRITE BUFFER AND COMMAND BUFFERS (FROM CPU)</b>	
FRACTIONS DECIMALS ANGLES ± .XX ± ±		APPROVALS DATE			
MATERIAL		DRAWN		CHECKED JDC	
FINISH		SCALE		SIZE <b>B</b>	CODE IDENT NO.
NEXT ASSY	USED ON	DO NOT SCALE DRAWING		DRAWING NO. 200028-200	
APPLICATION		SCALE		SHEET 6 OF 6	

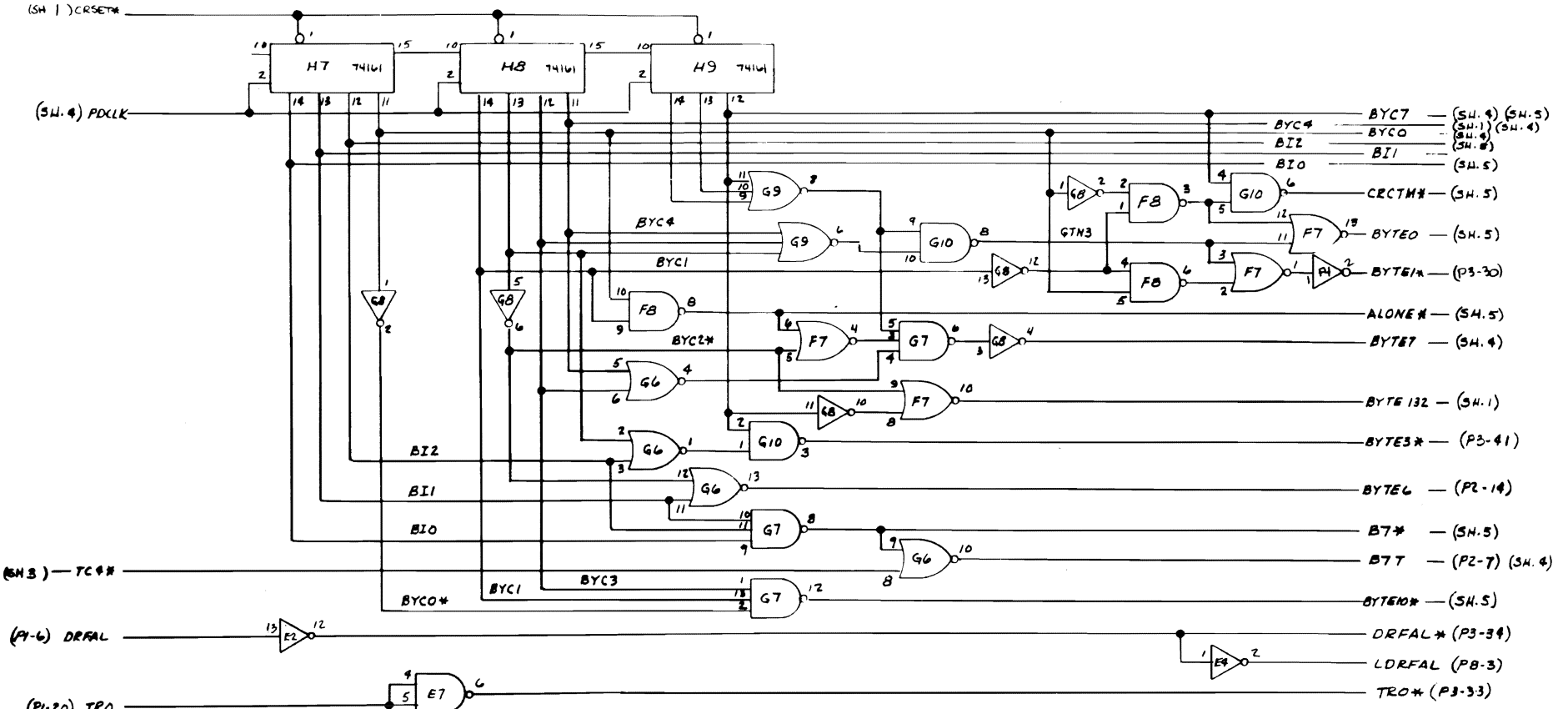


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± XXX ±		CONTRACT NO.			
MATERIAL		APPROVALS			
FINISH		DRAWN		CLOCK REGISTER, BYTE COUNTER, DISK ID, DATA, GAP STATE LATCHES ZL	
NEXT ASSY		CHECKED		SIZE	CODE IDENT NO.
USED ON				B	200028-201
APPLICATION		DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 6

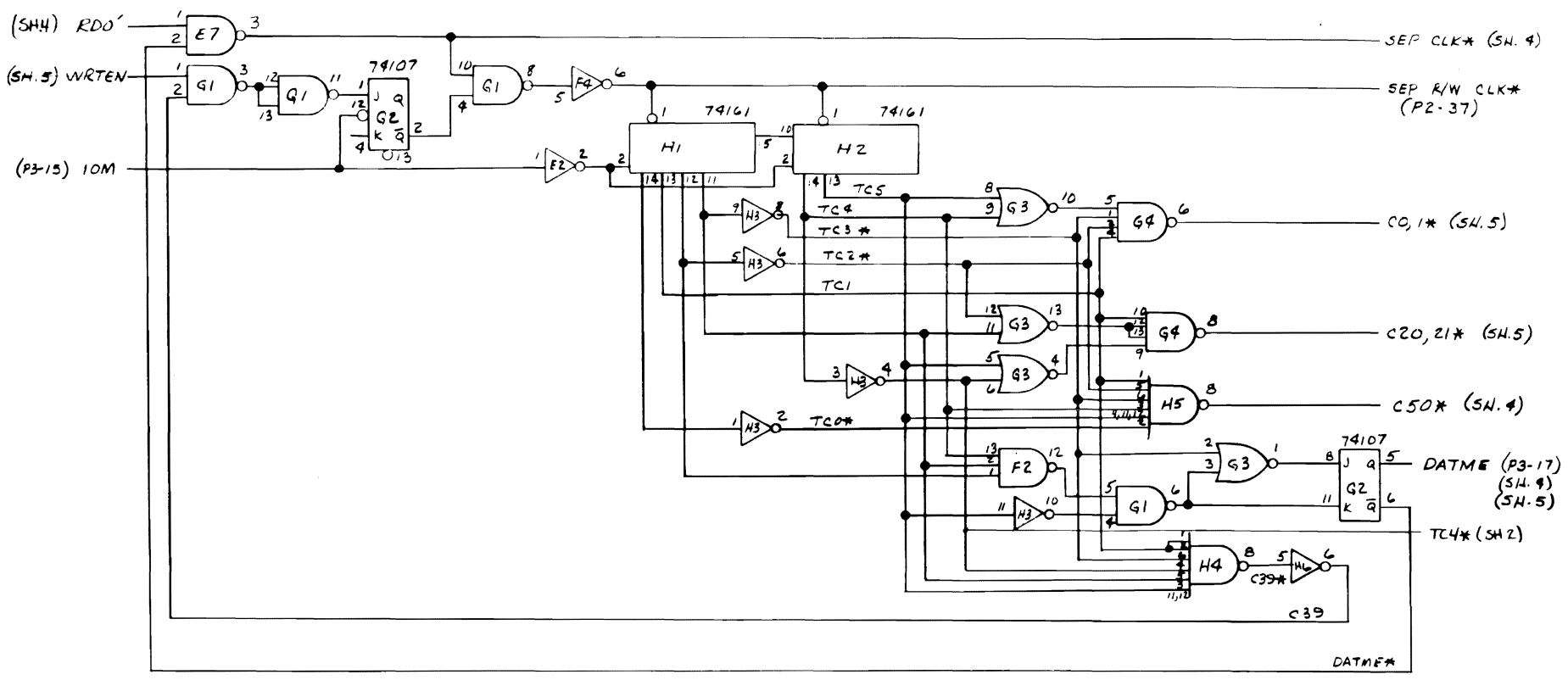



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



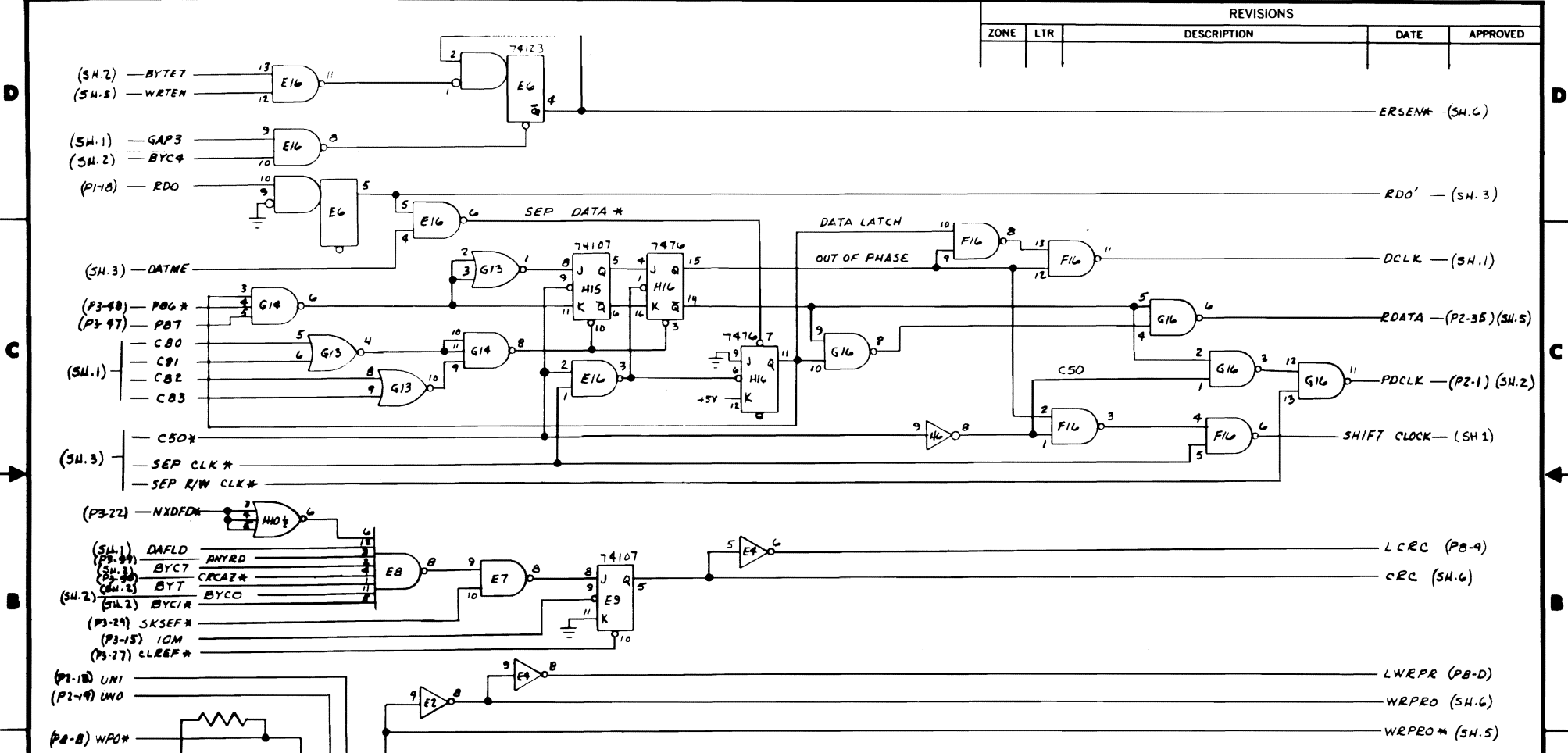
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± ± .XXX ±		CONTRACT NO.		
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN		BYTE COUNT DECODING
NEXT ASSY		CHECKED		
APPLICATION		DO NOT SCALE DRAWING		SIZE <b>B</b>
				CODE IDENT NO.
				DRAWING NO. <b>200028-201</b>
				SCALE
				SHEET 2 OF 6


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



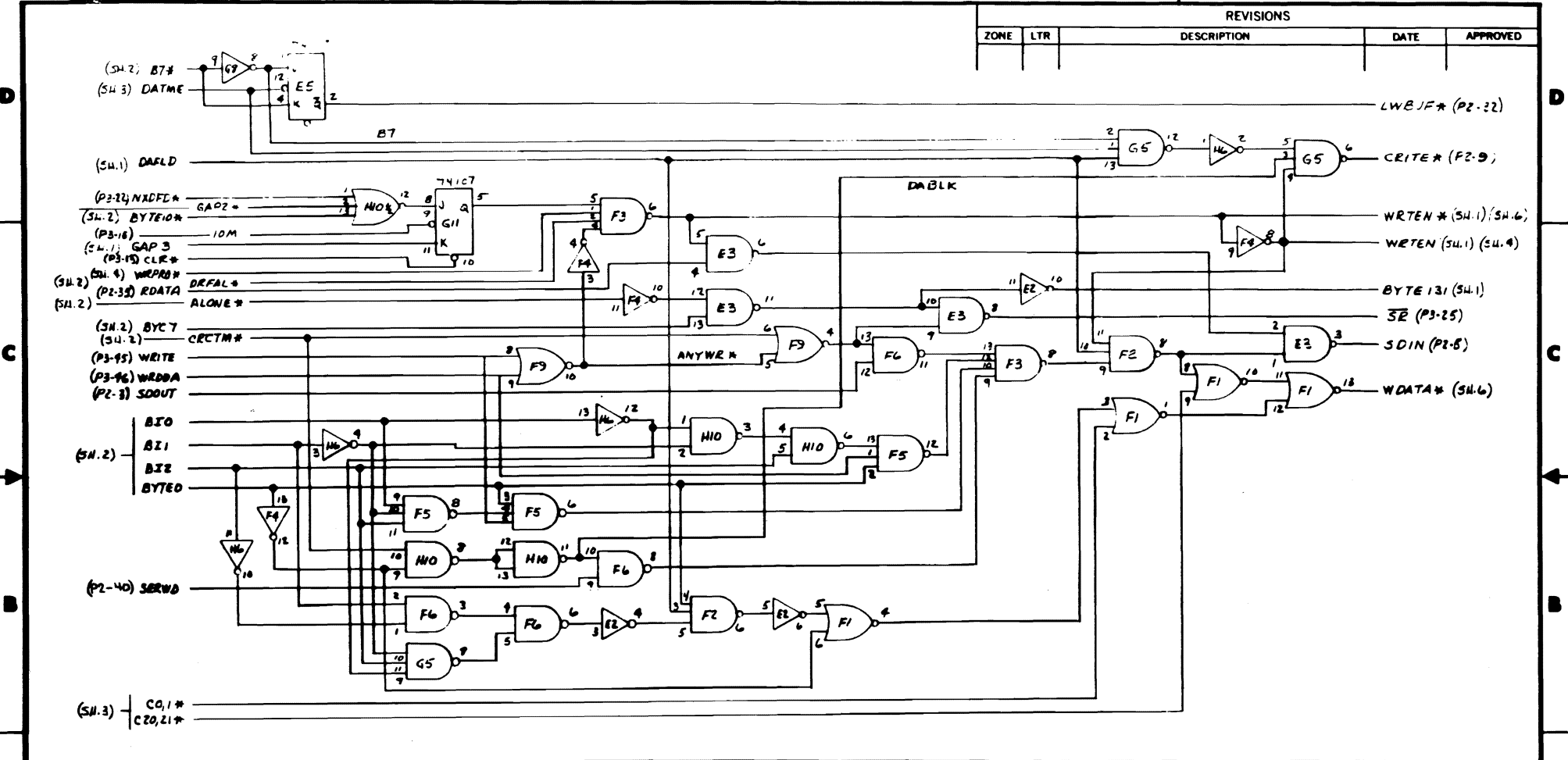
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± XXX ±	CONTRACT NO.			
			APPROVALS	DATE		
		MATERIAL	DRAWN	DATA SEPARATOR		
		FINISH	CHECKED			
NEXT ASSY	USED ON	DO NOT SCALE DRAWING	SIZE	CODE IDENT NO.	DRAWING NO.	
APPLICATION			<b>B</b>		200028-201	
			SCALE	SHEET 3 OF 6		


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

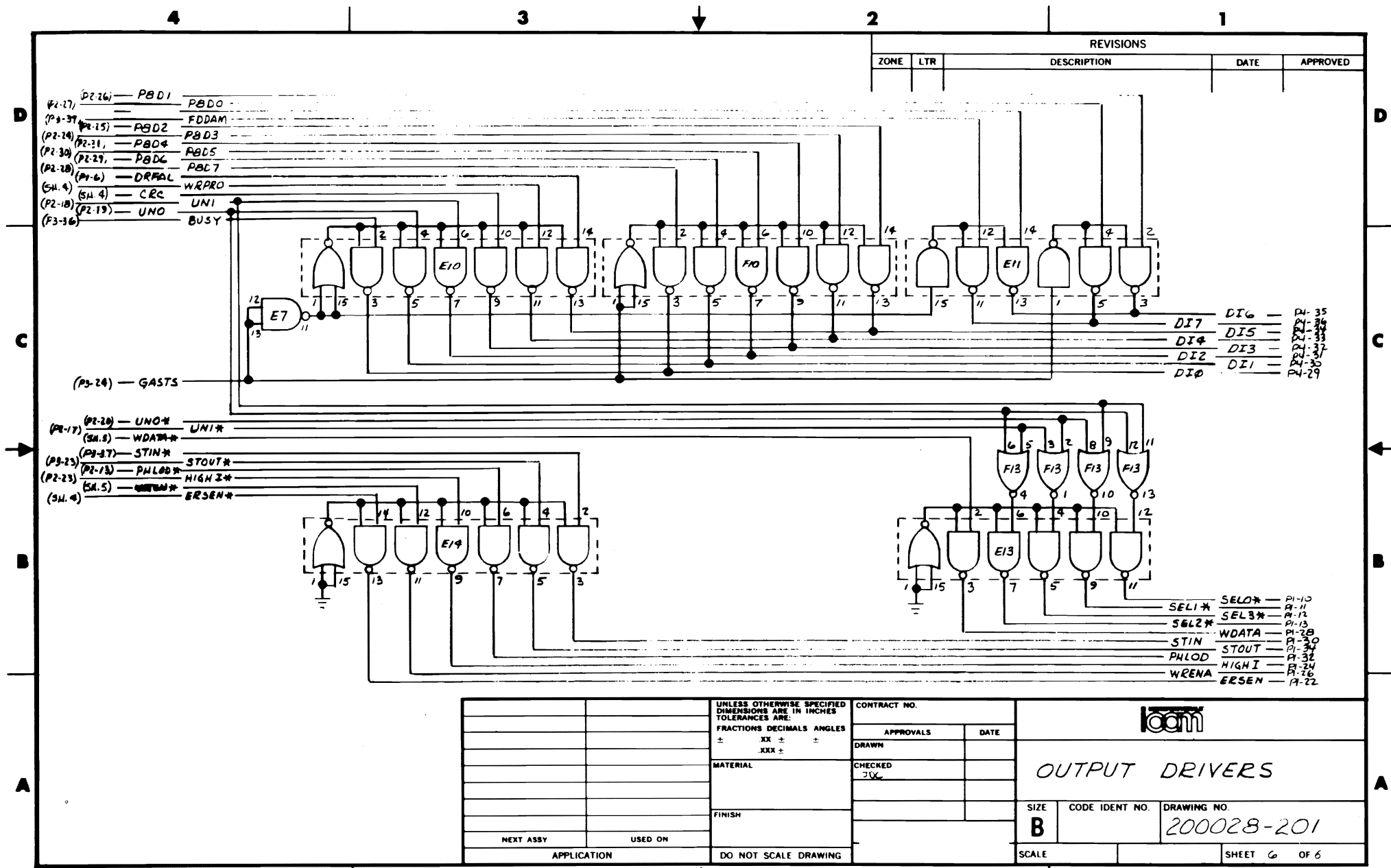


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± ± .XXX ± ±		CONTRACT NO.		 <b>DATA LATCH, ERASE TRIM, CRC ERROR LATCH</b>	
MATERIAL		APPROVALS			
FINISH		DRAWN		CHECKED	
NEXT ASSY		USED ON		SIZE <b>B</b>	
APPLICATION		DO NOT SCALE DRAWING		CODE IDENT NO	
				DRAWING NO. <b>200028-201</b>	
				SCALE	
				SHEET 4 OF 6	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		LWEJF* (P2-22)		



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± ± .XXX ±		CONTRACT NO.			
		MATERIAL		APPROVALS			
		FINISH		DRAWN			
		DO NOT SCALE DRAWING		CHECKED JUC		DISK WRITE LOGIC	
NEXT ASSY		USED ON		SIZE		CODE IDENT NO.	
APPLICATION				B		DRAWING NO. 200028-201	
				SCALE		SHEET 5 OF 6	



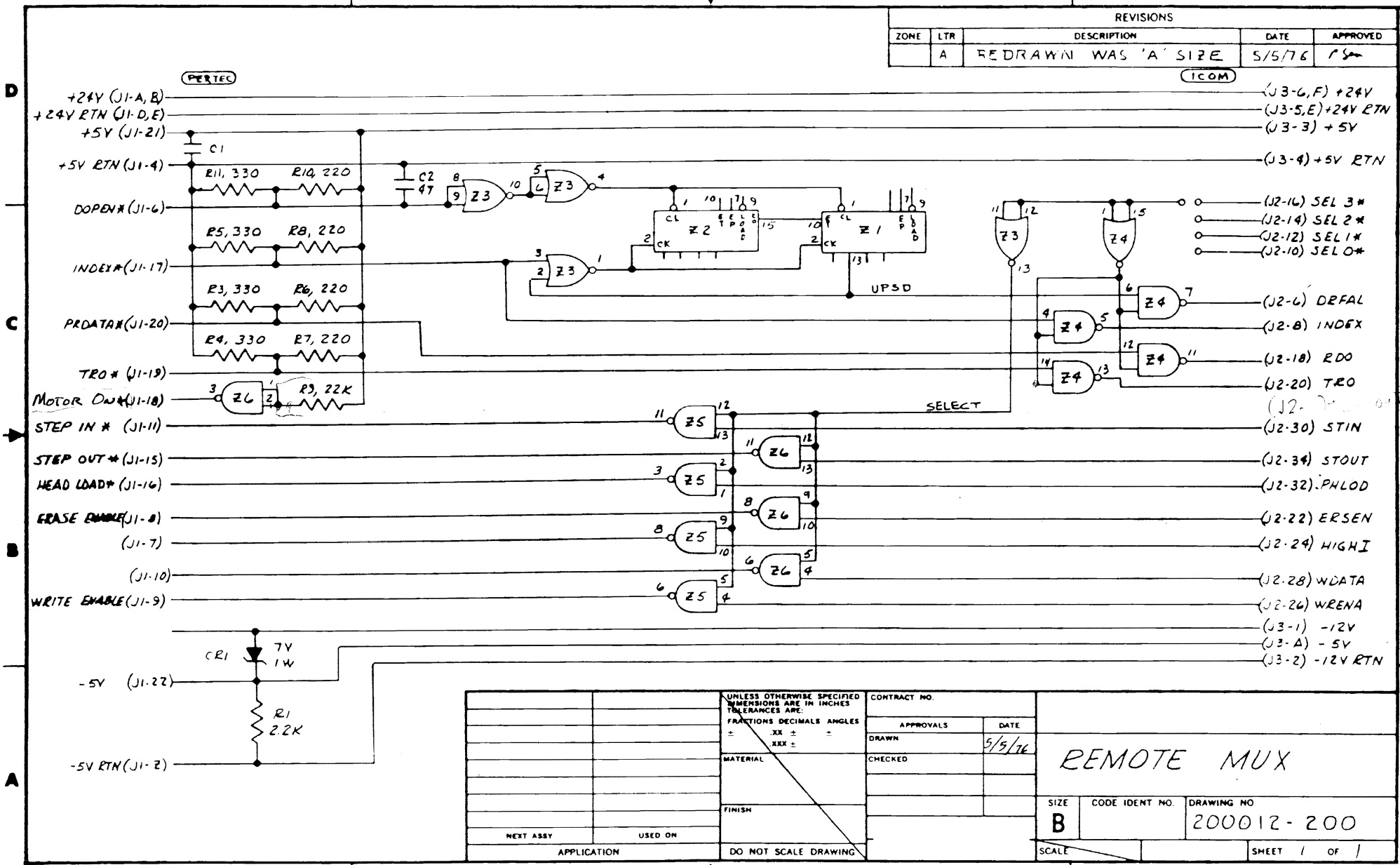
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

- DI6 — P4-35
- DI7 — P4-34
- DI8 — P4-33
- DI9 — P4-32
- DI0 — P4-31
- DI1 — P4-30
- DI2 — P4-29

- SEL1\* — P1-10
- SEL2\* — P1-11
- SEL3\* — P1-12
- WDATA — P1-13
- STIN — P1-20
- PHLOD — P1-31
- HIGH I — P1-32
- WRENA — P1-24
- ERSEN — P1-26

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± XX ± ± XXX ±		CONTRACT NO.			
MATERIAL		APPROVALS			
FINISH		DRAWN		<b>OUTPUT DRIVERS</b>	
NEXT ASSY		CHECKED 200			
USED ON		APPLICATION		DRAWING NO. 200028-201	
DO NOT SCALE DRAWING		SCALE		SHEET 6 OF 6	

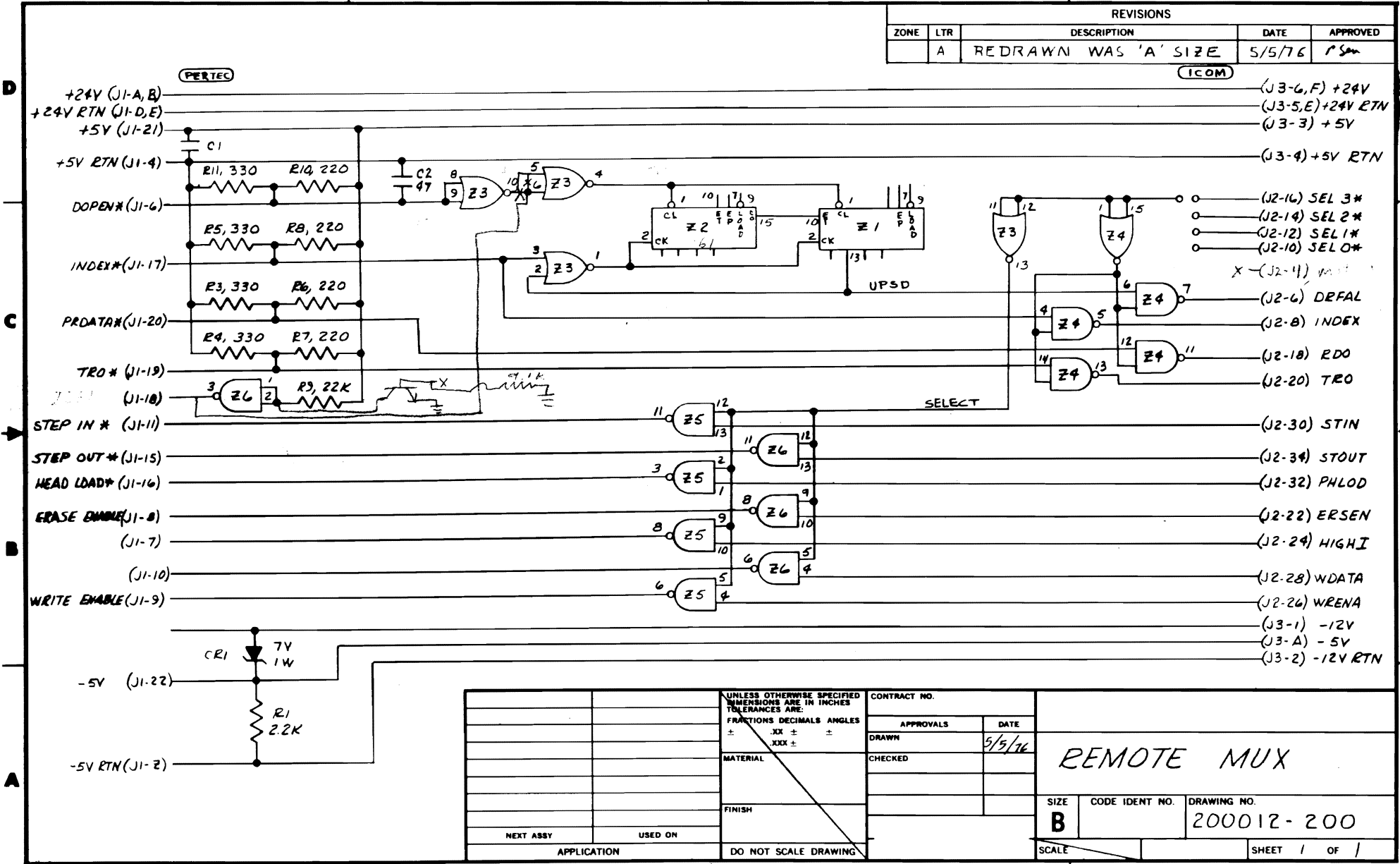
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	REDRAWN WAS 'A' SIZE	5/5/76	TS



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± ± .XXX ± ±		CONTRACT NO.	
MATERIAL		APPROVALS	DATE
FINISH		DRAWN	5/5/76
NEXT ASSY		CHECKED	
APPLICATION		USED ON	
DO NOT SCALE DRAWING		SCALE	

REMOTE MUX		
SIZE	CODE IDENT NO.	DRAWING NO.
B		200012-200
SHEET 1 OF 1		

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	REDRAWN WAS 'A' SIZE	5/5/76	<i>PSM</i>

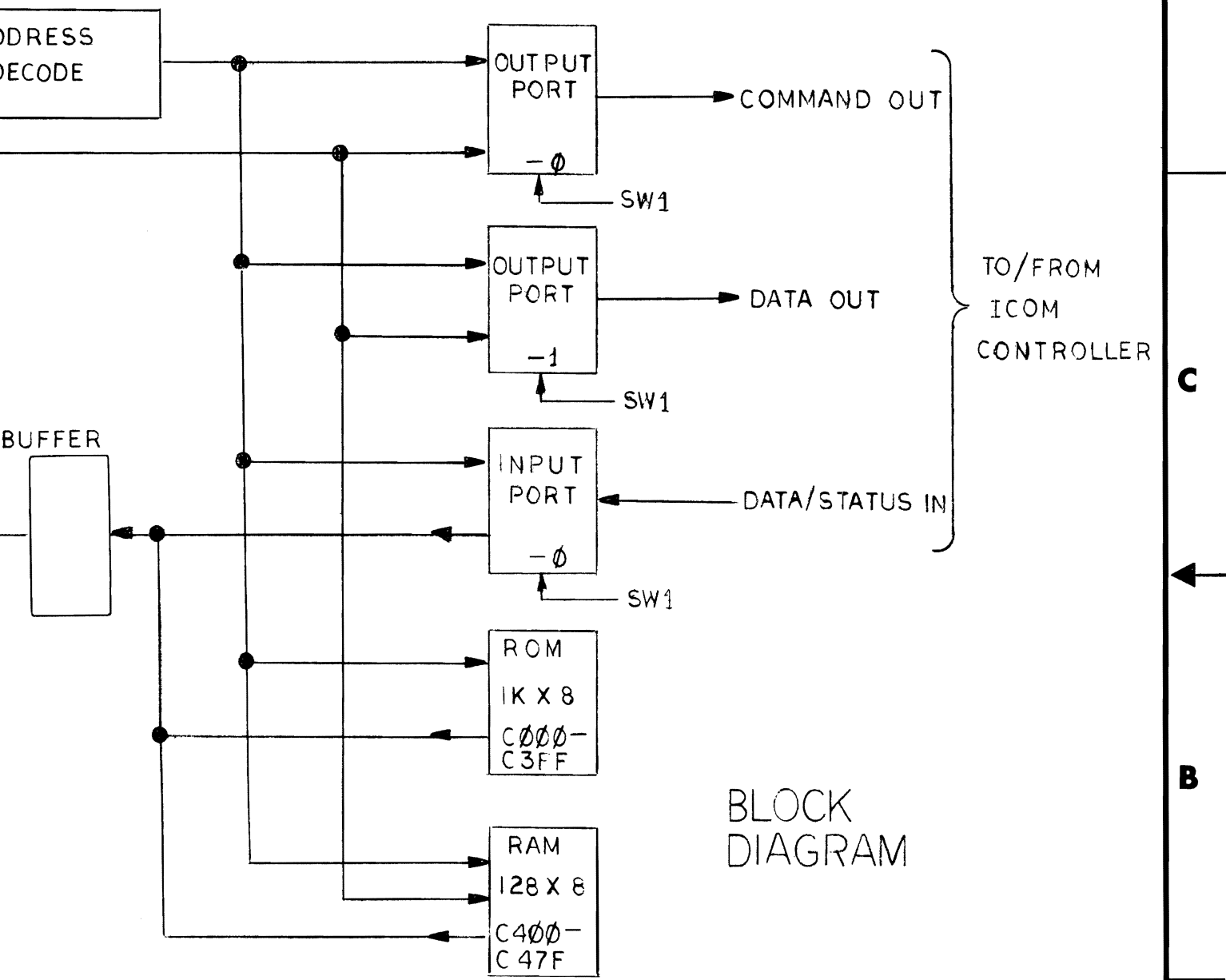


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± XXX ±		CONTRACT NO.	
MATERIAL	FINISH	APPROVALS	DATE
		DRAWN	5/5/76
		CHECKED	
NEXT ASSY	USED ON	<b>REMOTE MUX</b>	
APPLICATION	DO NOT SCALE DRAWING		
		SIZE	CODE IDENT NO.
		<b>B</b>	200012-200
		DRAWING NO.	
		200012-200	
		SCALE	SHEET 1 OF 1





REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED (SEE HISTORY FILE FOR N/C REV)	9/22/76	SWG
	B	SEE HISTORY FILE	9/23/76	SWG



D

C

B

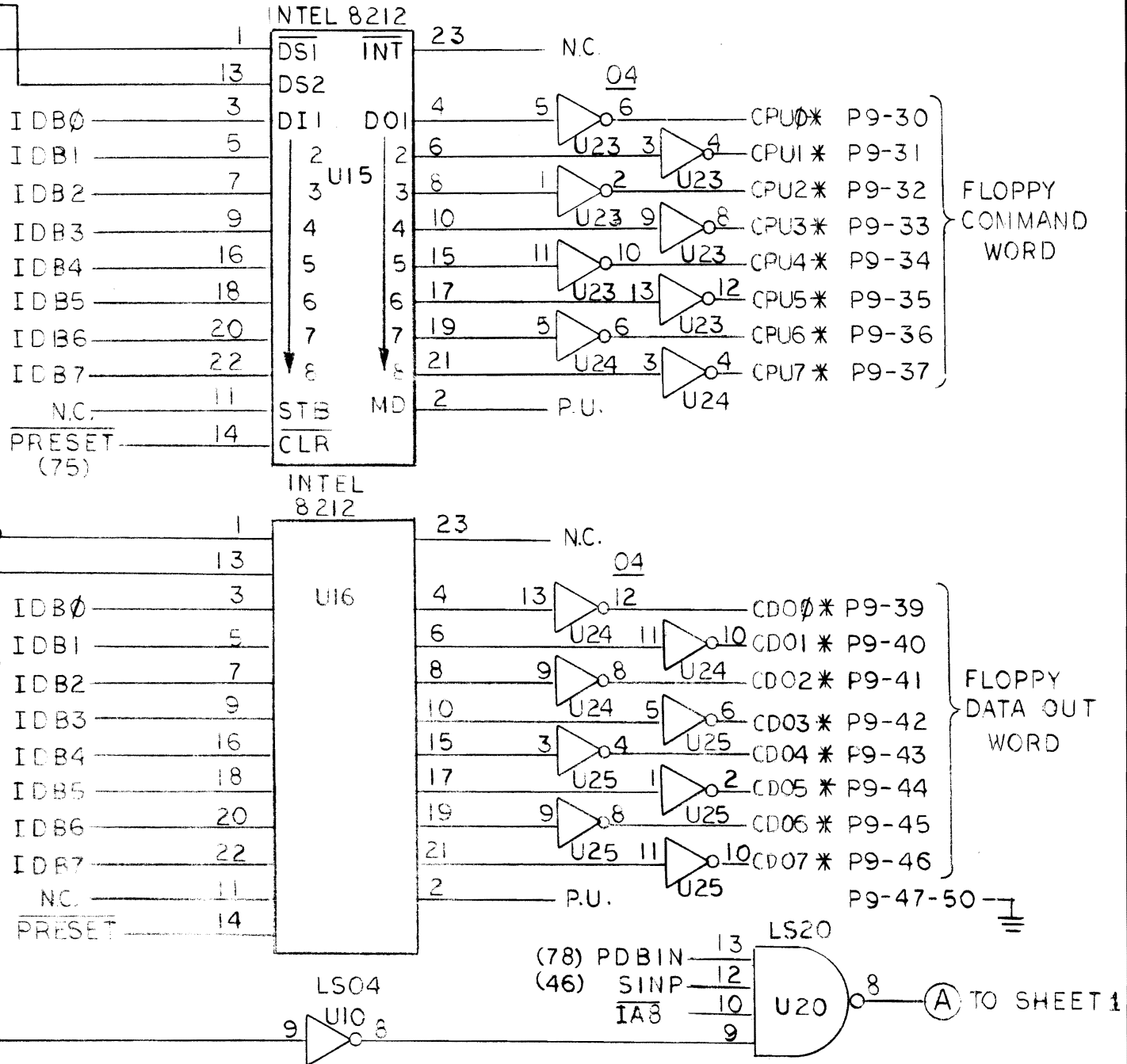
A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± .XXX ±	CONTRACT NO.		SCHEMATIC, 8800 INTERFACE		
	APPROVALS	DATE			
	DRAWN <i>J. Fazio</i>				
	CHECKED				
MATERIAL			SIZE	CODE IDENT NO.	DRAWING NO.
			<b>B</b>		200057-200
FINISH			SCALE		SHEET 1 OF 3
DO NOT SCALE DRAWING					



REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED



D

C

B

A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:  
 FRACTIONS DECIMALS ANGLES  
 ± .XX ± ±  
 .XXX ±

MATERIAL

FINISH

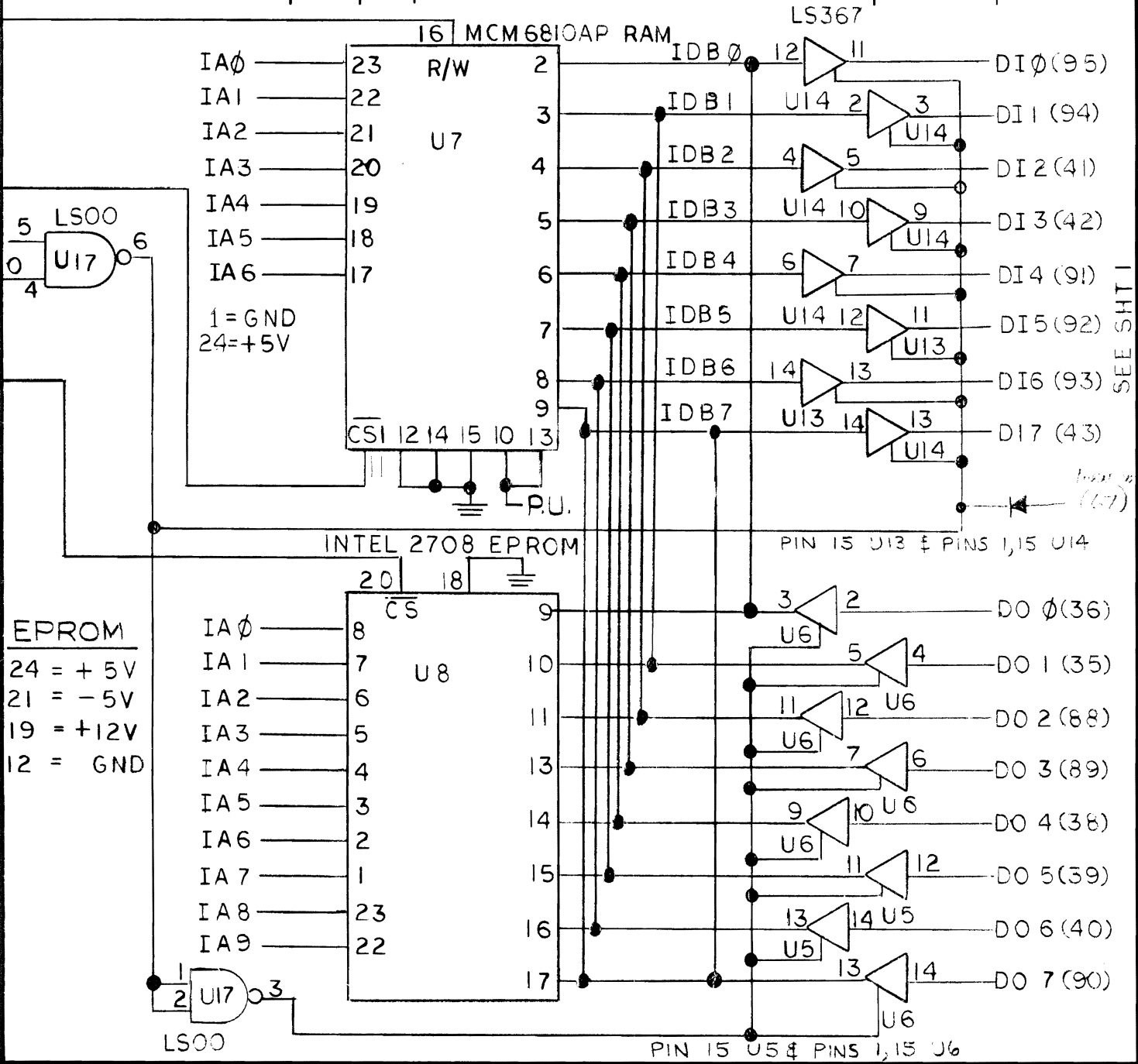
DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	DATE
DRAWN	
CHECKED	

SCHEMATIC, 8800 INTERFACE		
SIZE	CODE IDENT NO.	DRAWING NO.
<b>B</b>		200057-200 <b>B</b>
SCALE		SHEET 2 OF 3



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



D

C

B

A

**EPROM**  
 24 = +5V  
 21 = -5V  
 19 = +12V  
 12 = GND

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		
FRACTIONS	DECIMALS	ANGLES
± .XX ±	±	±
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.	
APPROVALS	DATE
DRAWN	
CHECKED	

SCHEMATIC, 8800 INTERFACE		
SIZE	CODE IDENT NO.	DRAWING NO.
<b>B</b>		200057-200 <i>B</i>
SCALE		SHEET 3 OF 3

TABLE I ①

PART NUMBER	REFERENCE DESIGNATION
100-1015	R66, 84, 90, 111
100-1025	R1, 16, 46, 50, 65, 85, 110, 70, 79
100-1085	R29, 33, 93, 74, 75, 127
100-1045	R59, 60
100-1065	R25
100-1215	R21
100-1515	R8, 10, 12, 14, 23, 102, 112, 38, 115, 106
100-1235	R94
100-1825	R17, 100
100-2215	R26, 30, 78, 80, 83, 89
100-2225	R92, 56, 57, 125, 132, 133
100-2235	R71, 72, 73
100-2715	R19
100-2725	R86, 4, 122
100-2735	R61
100-1835	R101
100-4705	R20, 77
100-4715	R7, 64, 82, 88, 81, 87
100-4725	R91
100-4735	R27, 31
100-6805	R9, 11, 13, 15, 39, 108, 107, 113, 116
100-6815	R58, 55
100-6825	R126, 129, 69, 49
100-6835	R96
100-8215	R18, R123
100-8225	R28, 32
100-2745	R95
100-1815	R120
101-1015	R68
101-1215	R5, 6, 67
101-1825	R33, 54
101-2225	R22
101-1525	R128
101-2725	R119
103-1015	R24, 121
104-1331	R109
104-1621	R47
104-2152	R3
104-2372	R108
104-2612	R99
109-0008	R118
109-0008	R104, 105, 114, 117
120-0001	U18
121-1080	R98
121-1040	R97
121-4020	R76
121-2080	R2
130-1015	C26, 45
130-4705	C29
130-4715	C18
130-7515	C30
130-3315	C24

PART NUMBER	REFERENCE DESIGNATION
131-1080	C11, 12, 14, 40
131-1520	C48
135-5061	C38, 39, 44
139-1020	C2, 35
139-1055	C3, 47, 36, 25, 28
139-2244	C1, 7, 8, 9, 20, 22, 27, 34, 41, 42, 31, 32
139-2262	C4
139-2710	C33
139-4751	C5, 46
139-4755	C21, 23, 19, 43
139-4762	C6, 37
200-1100	Q3, 4, 25, 26, 27
200-1120	Q1, 2, 24
200-4123	Q5, 6, 7, 28, 29, 31, 21, 22
200-4125	Q14, 16, 17, 18, 19, 20, 30
200-5921	Q9
204-4993	Q23
300-4002	CR1, 2, 3, 7, 21, 22, 25
300-4446	CR4, 5, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24
330-0515	VR3
330-0475	VR6
330-0685	VR4
331-0935	VR2, 5
331-1605	VR1
400-0555	U13, 12
400-0592	U1, 2
400-2741	U21, 26, 27
515-1015	L1, 3, 5, 6
515-2405	L2, 4
700-4221	U17
700-7545	U25, 19, 7
700-7400	U11
700-7402	U5, 8, 22, 23
700-7404	U15, 29
700-7406	U9, 24
700-7407	U6
700-7414	U20
700-7416	U30
700-7450	U28
700-7476	U4, 14, 16
700-8020	U3

TABLE II ②

ASSEMBLY VERSION NO.	VERSION CHARACTERISTIC	C15, C16, R62, R63, U10, R131	WI	
		USAGE ③	100-0005	
SINGLE DENSITY	INTERNAL TRIM ERASE	-01	USE	USE
		-02	USE	USE
	EXTERNAL TRIM ERASE OPTION	-03	USE	OMIT
		-04	USE	OMIT
SINGLE DENSITY	INTERNAL TRIM ERASE	-05	OMIT	USE
		-06	OMIT	USE
	EXTERNAL TRIM ERASE OPTION	-07	OMIT	OMIT
		-08	OMIT	OMIT

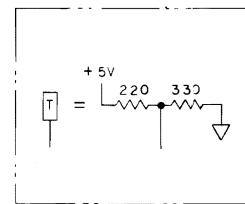


TABLE V SPARES:

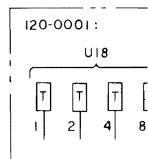


TABLE III ③

PART NUMBER	REFERENCE DESIGNATION
104-2871	R62
100-1525	R63
139-1020	C15, 16
700-4221	U10
121-1080	R131

LAST USED
C48
CR25
F1
L6
Q31
R133
TP15
U30
VR6
W6

TABLE II (2)

VERSION CHARACTERISTIC	C15, C16, R62, R63, U10, R131		W1	W2	W3	W4	W5	W6
	USAGE (3)							
SINGLE DENSITY, INTERNAL ERASE, -5V, POWER SAVE FEATURE OUT	USE		100-0005	100-0005	100-0005	100-0005	100-0005	100-0005
SINGLE DENSITY, INTERNAL ERASE, -5V, POWER SAVE FEATURE IN	USE		USE	OMIT	USE	OMIT	USE	USE
SINGLE DENSITY, INTERNAL ERASE, -12/-15V, POWER SAVE FEATURE OUT	USE		OMIT	USE	USE	OMIT	OMIT	OMIT
SINGLE DENSITY, INTERNAL ERASE, -12/-15V, POWER SAVE FEATURE IN	USE		OMIT	USE	USE	OMIT	USE	USE
SINGLE DENSITY, EXTERNAL ERASE, -5V, POWER SAVE FEATURE OUT	OMIT		USE	OMIT	OMIT	USE	OMIT	OMIT
SINGLE DENSITY, EXTERNAL ERASE, -5V, POWER SAVE FEATURE IN	OMIT		USE	OMIT	OMIT	USE	USE	USE
SINGLE DENSITY, EXTERNAL ERASE, -12/-15V, POWER SAVE FEATURE OUT	OMIT		OMIT	USE	OMIT	USE	OMIT	OMIT
SINGLE DENSITY, EXTERNAL ERASE, -12/-15V, POWER SAVE FEATURE IN	OMIT		OMIT	USE	OMIT	USE	USE	USE

REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPV
A	ERN 200 FB PRE-PROD RELEASE	7/4/76	SOE	ST	ST
B	ECN 30367A	7/14/76	ST	ST	ST
B1	ECN 30357	7/14/76	ST	ST	ST
C	ERN 200-GP PROD RELEASE	7/14/76	ST	ST	ST
C	ECN 30462A	7/14/76	C.J.	ST	ST
D	ECN 30467	7/12/76	RJ	ST	ST
E	ECN 30477	7/28/76	RJ	ST	ST
F	ECN 30505	8/4/76	RJ	ST	ST

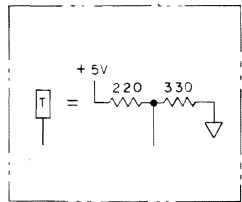


TABLE V SPARES:

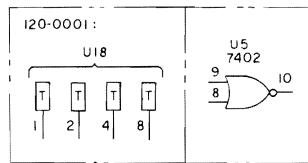


TABLE III (3)

REFERENCE DESIGNATION
2
3
5, 16
1
1

REFERENCE DESIGNATIONS

LAST USED	NOT USED	DELETED
C48	C13	C10, 17
CR25	CR6	CR9
F1		
L6		
Q31	Q8	Q10, 11, 12, 13, 15
R133	R34 THRU 37, 52, 52A, 52B	R40, 41, 43, 44, 45, 48, 51, 42
TP15		
U30		
VR6		
W6	W7, 8	

(2) VERSIONS OF THIS ASSEMBLY FOR INTERNAL/EXTERNAL TRIM ERASE MAY BE CREATED BY INSTALLING C15, C16, R62, R63, R131, U10 AND SELECTING W3 OR W4 AS APPLICABLE.

- SIGNALS ARE CROSS-REF BETWEEN SHEETS AND WITHIN A SHEET BY NUMBERS APPEARING UNDER THE ASSOCIATED LOGIC TERM MNEMONIC. THE FIRST NO. IS THE SHEET NO. AND THE SECOND NO. IS THE ZONE NO.
- DIODES ARE IN4446.
- PNP TRANSISTORS ARE 2N4125.
- NPN TRANSISTORS ARE 2N4123.
- CAPACITOR VALUES ARE IN MICROFARADS, 20%, 20V.
- RESISTOR VALUES ARE IN OHMS, 5%, 1/4W.
- FOR SPARE LOGIC ELEMENTS, SEE TABLE V.
- PIN 7 OF ALL I.C.'s IS 0V. PIN 13 IS 0V. 74221 PIN 8 IS 0V. PIN 14 OF ALL I.C.'s IS +5V. PIN 5 IS +5V. PIN 16 IS +5V.

(3) FOR PART NUMBER SEE TABLE III.

(2) FOR VALUE, PART NUMBER AND USAGE OF COMPONENTS AFFECTED BY VERSION NUMBER, SEE TABLE II.

(1) FOR PART NUMBER OF COMPONENTS NOT AFFECTED BY VERSION NUMBER, SEE TABLE I.

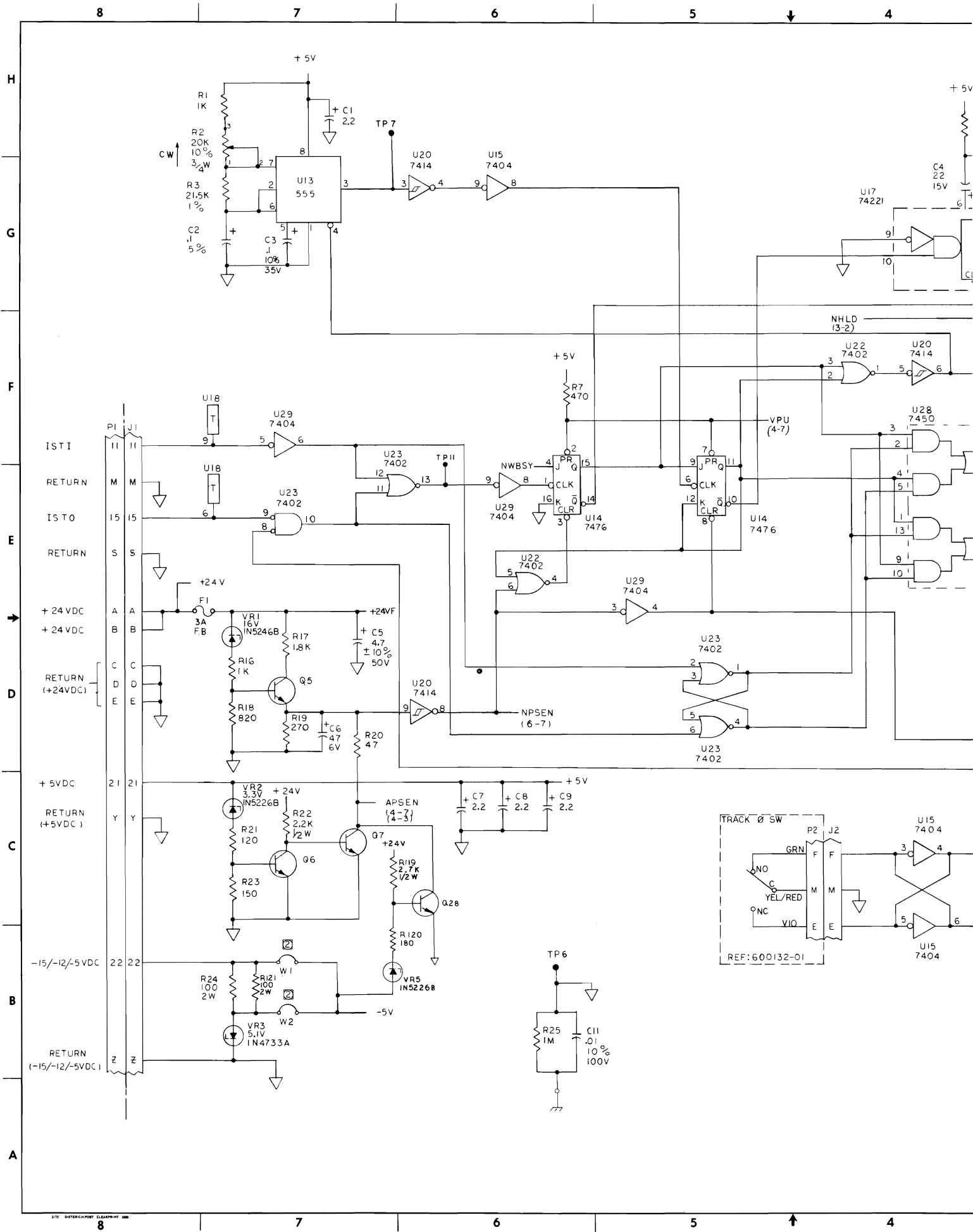
NOTES: UNLESS OTHERWISE SPECIFIED

REFERENCE DRAWINGS:  
ASSEMBLY NO. 600321

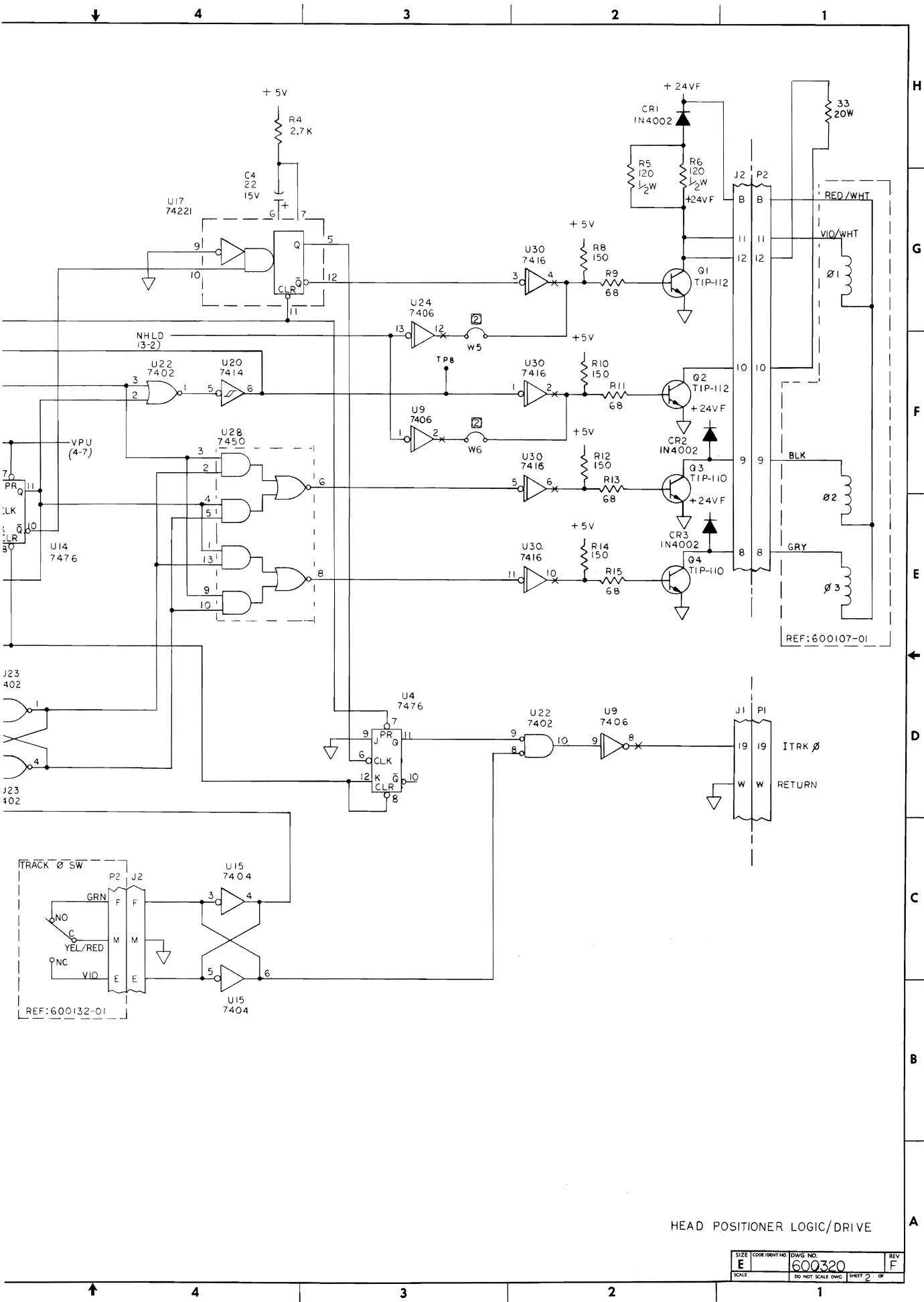
The information herein is the property of PERTEC CORPORATION. Its use, without the prior written consent of PERTEC CORPORATION, is prohibited.		SIGNATURES DR: [Signature] CK: [Signature] APPV: [Signature]		DATE 12/1/76
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: .001 to .004 ANGULAR ± 1/2° .005 to .009 ± .001 .010 to .020 ± .002 .021 to .050 ± .003 .051 to .100 ± .004 .101 to .500 ± .005 .501 to 1.000 ± .006 1.001 to 2.000 ± .008 2.001 to 5.000 ± .010 5.001 to 10.000 ± .012 10.001 to 25.000 ± .015 25.001 to 50.000 ± .020 50.001 to 100.000 ± .025 100.001 to 250.000 ± .030 250.001 to 500.000 ± .035 500.001 to 1000.000 ± .040		PERTEC PERIPHERAL EQUIPMENT TITLE SCHEMATIC, FD, BASIC II, DC		SCALE NONE
FINISH: NEXT ASSY 1ST USED ON APPLICATION		MATL:		SIZE CODE IDENT NO. DRAWING NO. 600320 REV F DO NOT SCALE DIMS

H  
G  
F  
E  
D  
C  
B  
A

600320

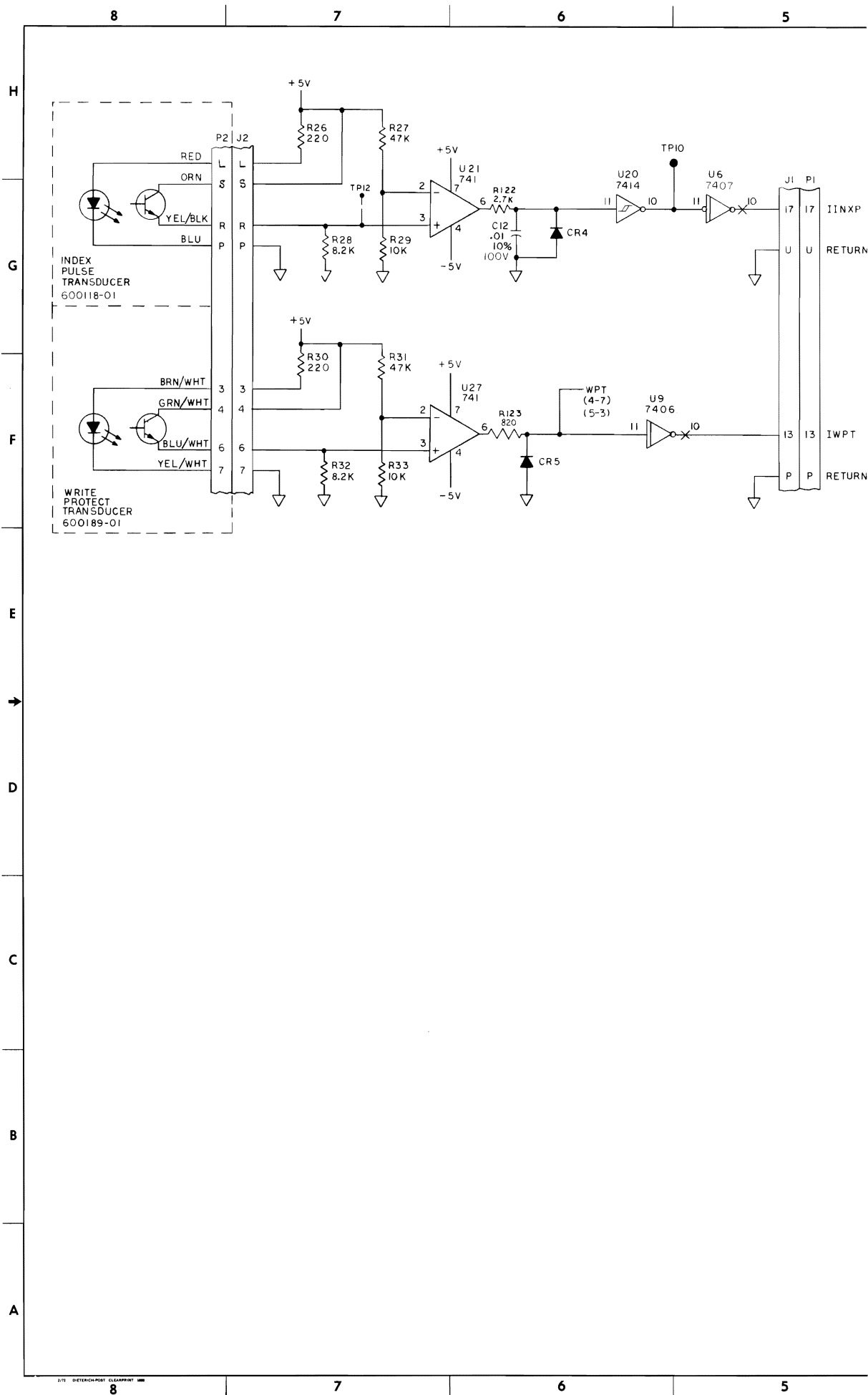


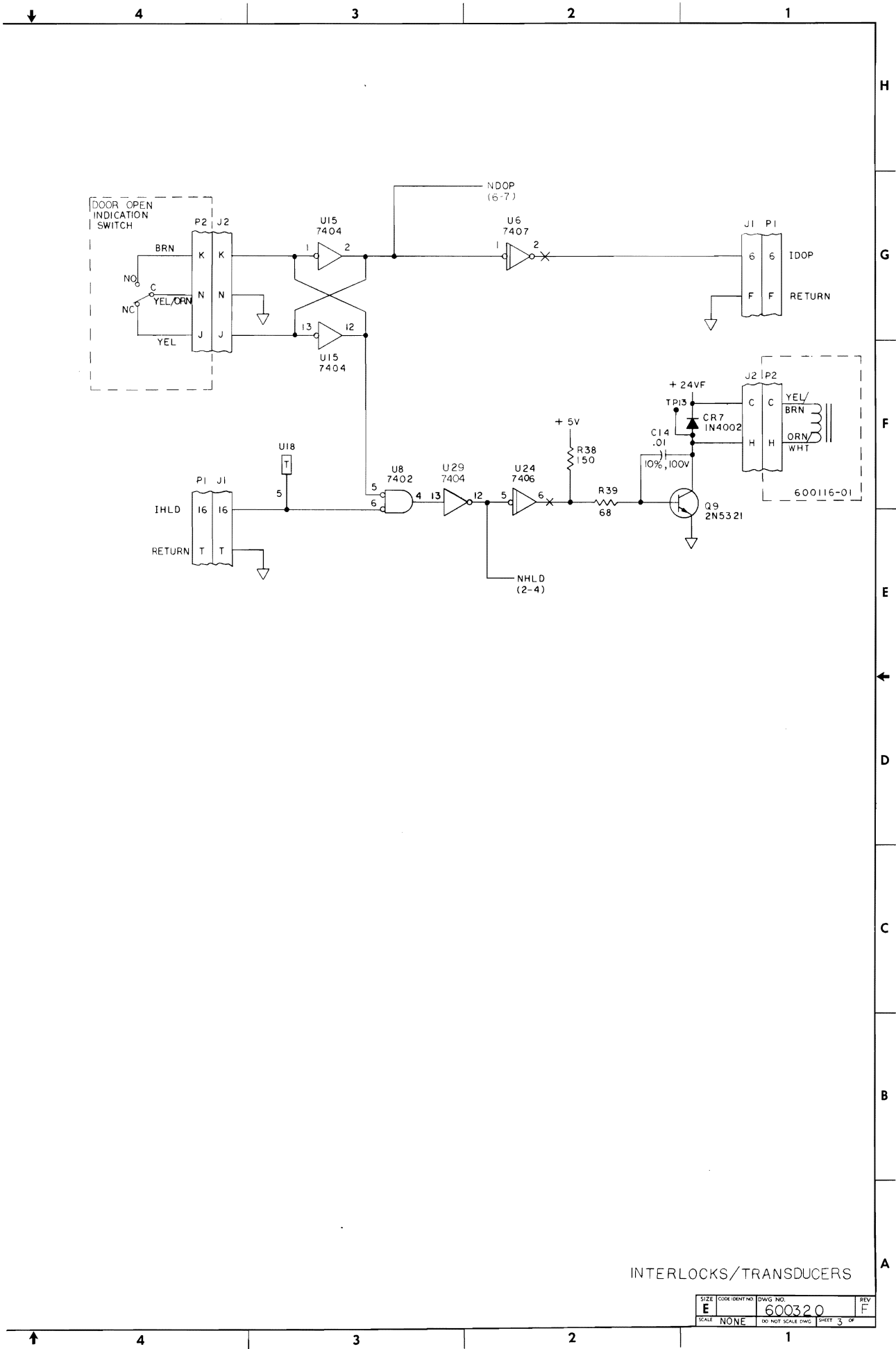




HEAD POSITIONER LOGIC/DRIVE

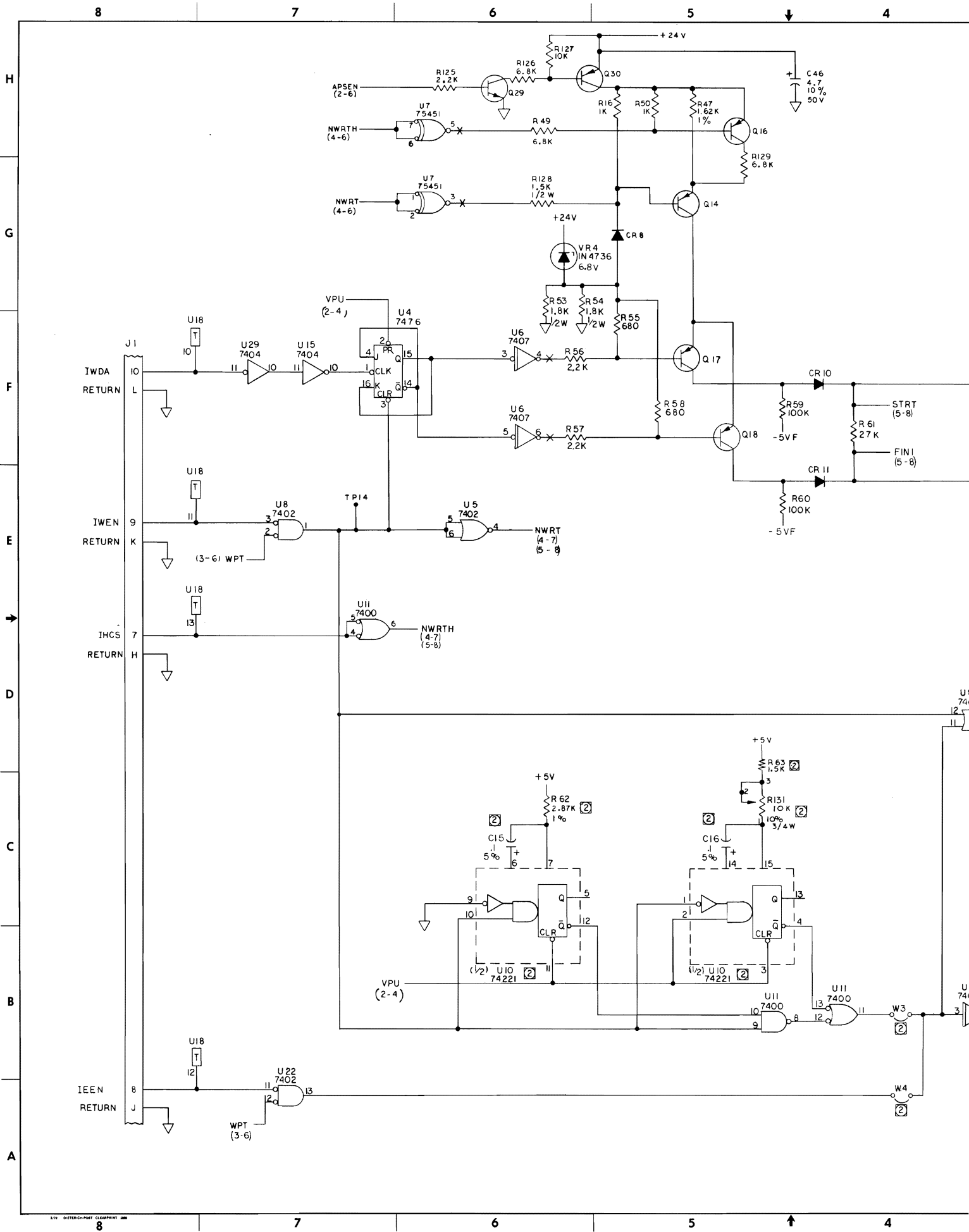
SIZE	CODE/IDENT NO.	DWG. NO.	REV.
E		600320	F
SCALE			DO NOT SCALE DWG. SHEET 2 OF

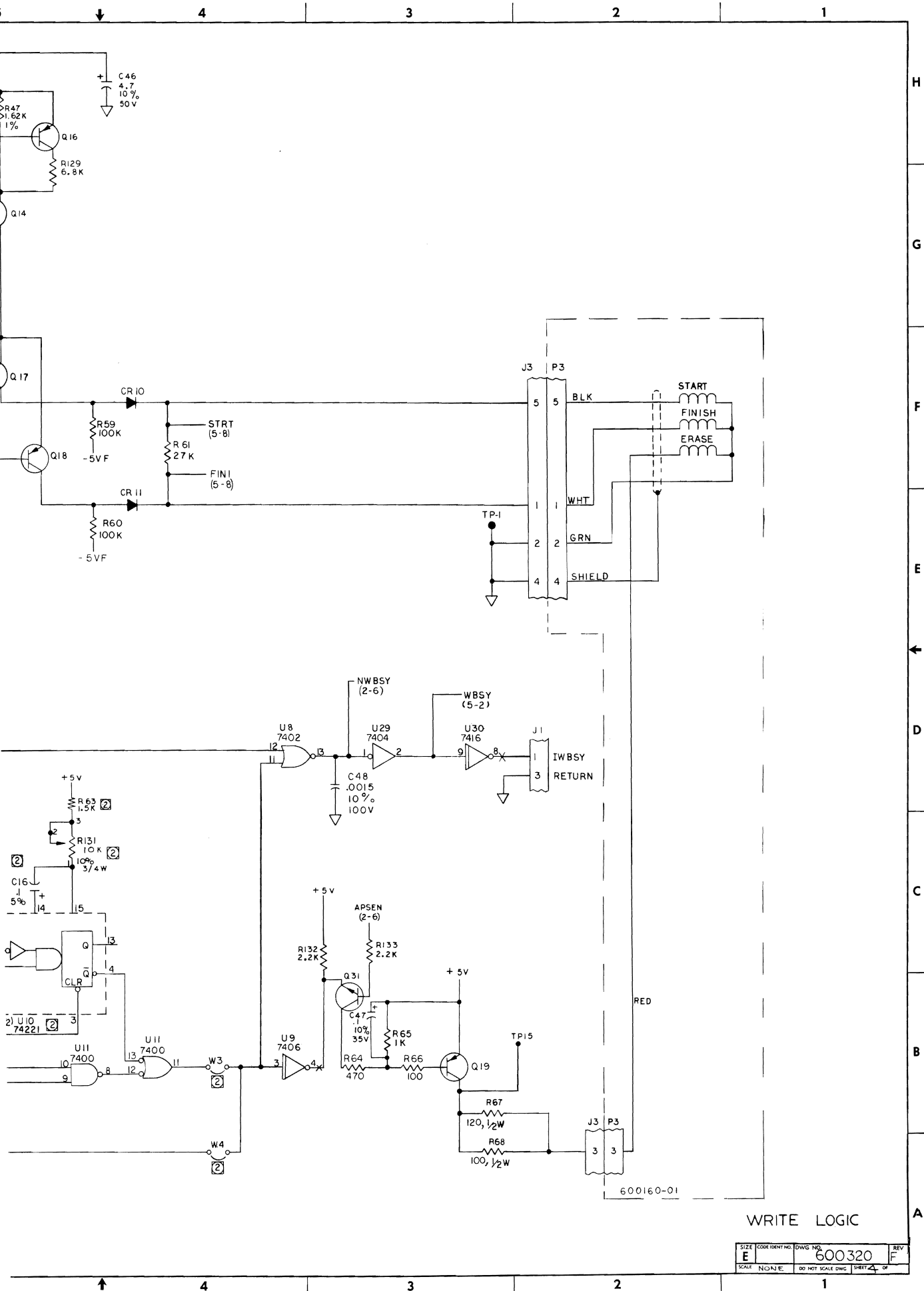




INTERLOCKS/TRANSDUCERS

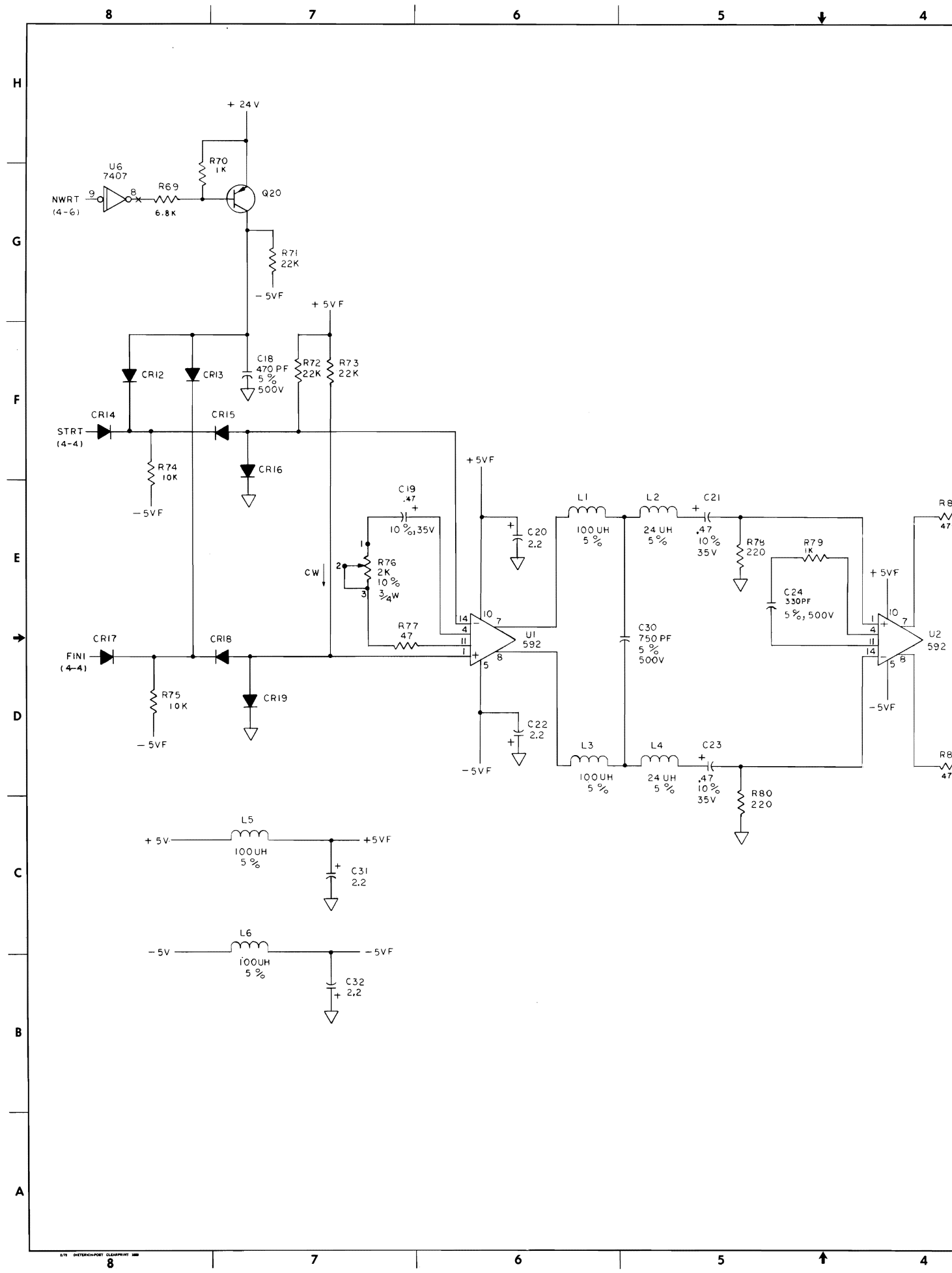
SIZE	CODE IDENT NO	DWG NO.	REV
E		600320	F
SCALE	NONE	DO NOT SCALE DWG	SHEET 3 OF

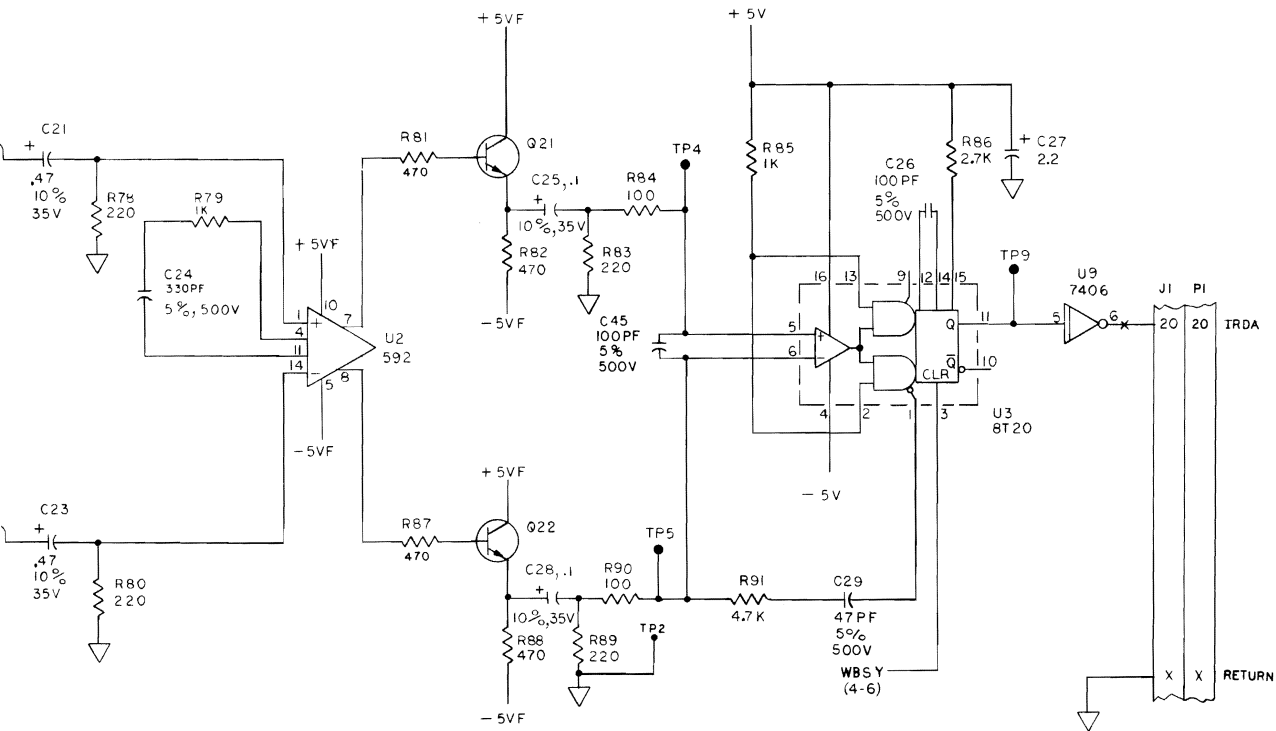




WRITE LOGIC

SIZE	CODE IDENT NO.	DWG NO.	REV
E		600320	F
SCALE		DO NOT SCALE DWG	SHEET 4 of 4





READ AMPLIFIER

SIZE	CODE/IDENT NO.	DWG. NO.	REV
E		600320	F
SCALE	DO NOT SCALE DWG.		SHEET 5 OF

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F

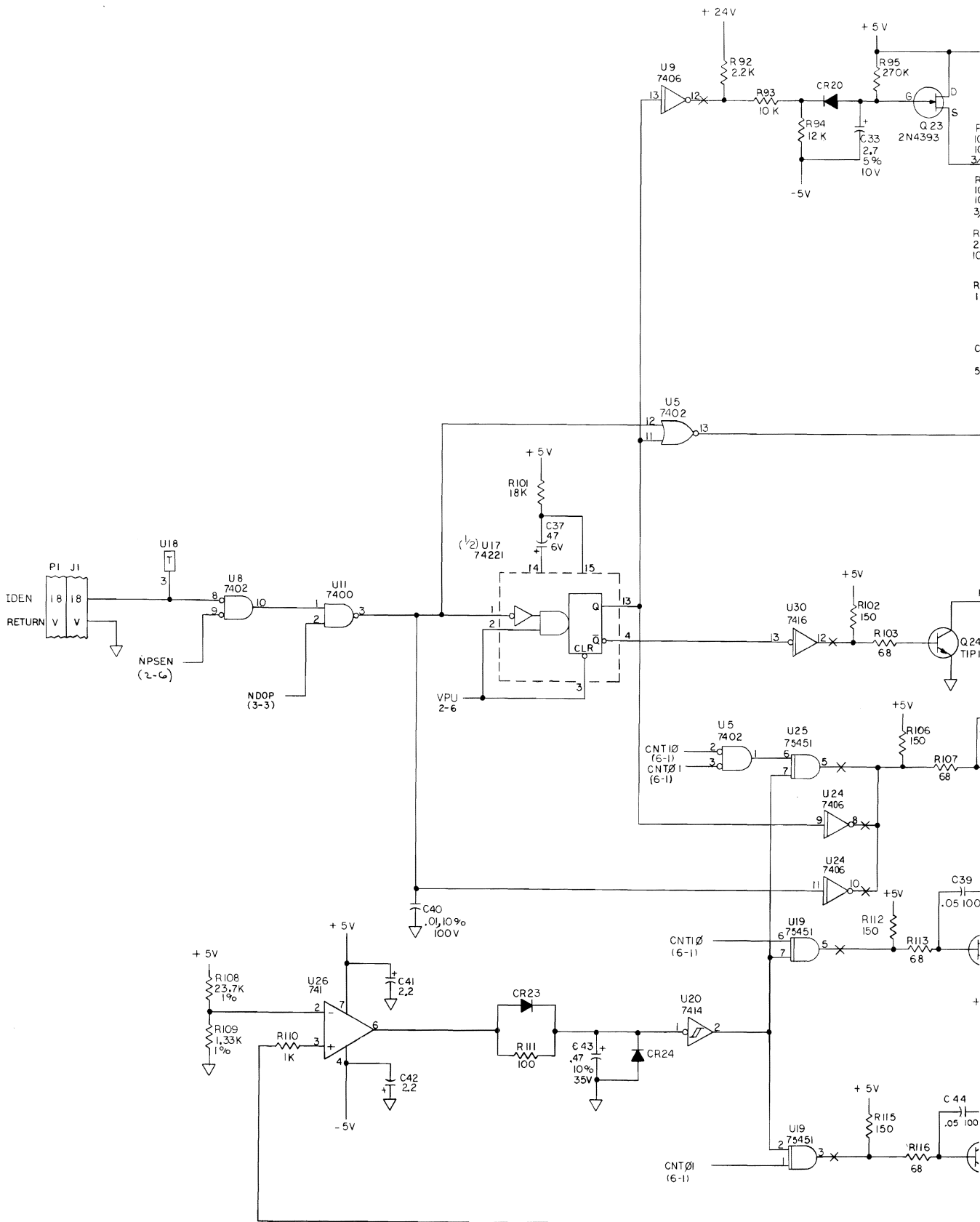
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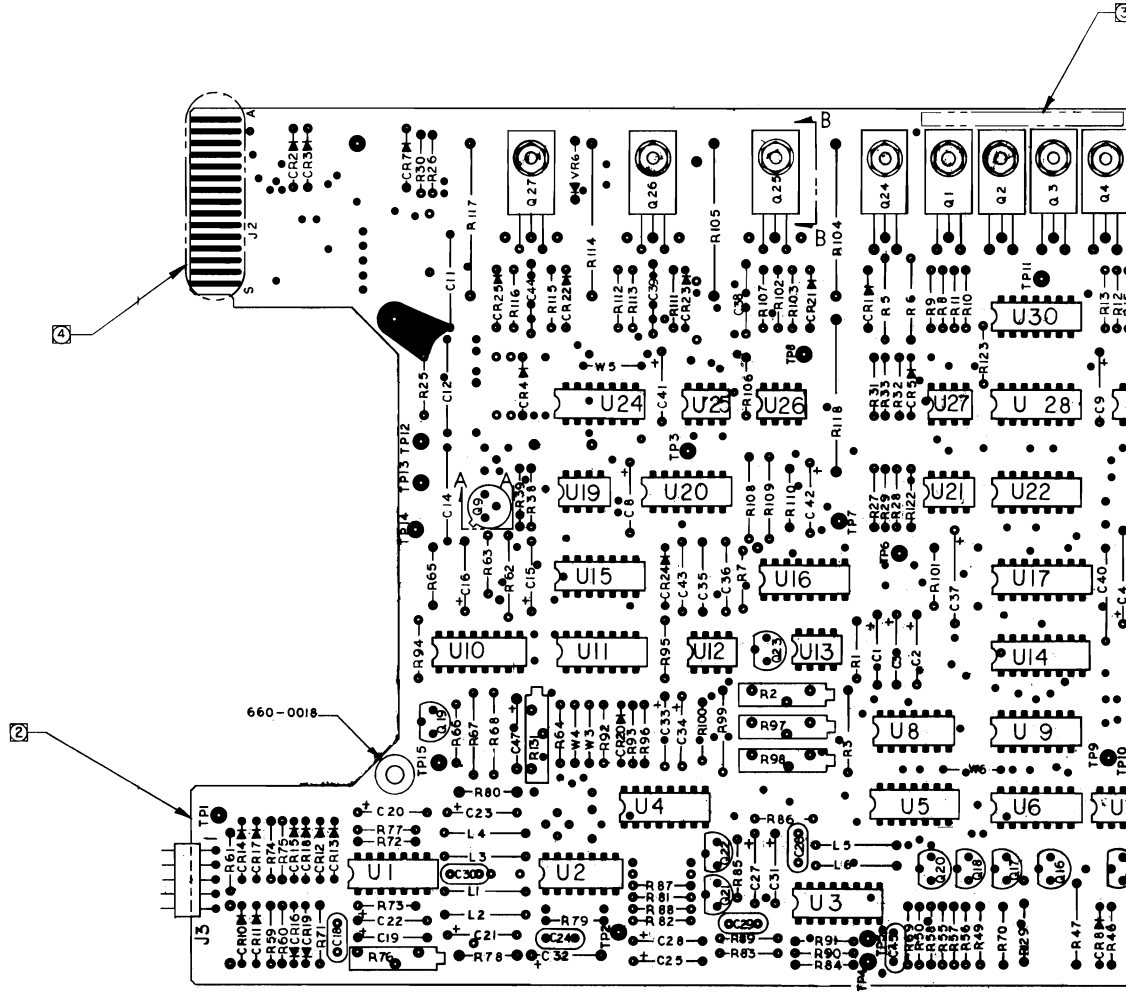
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5. MAINTAIN MIN. AIR GAP OF .10  
 BETWEEN COMPONENT BODY  
 & BOARD FOR R104,R105,R114 R117 & R118

④ MASK AREAS SHOWN DURING FLOW SOLDER  
 OPERATION.

③ MARK PART NUMBER 600321,VERSION NUMBER AND  
 VERSION ISSUE LETTER IN AREA SHOWN.

② THIS ASSEMBLY SHALL BE MADE FROM PROCESS  
 BOARD 600252-01 REV D AND SUBSEQUENT.

1. ASSEMBLE PER STANDARD MANUFACTURING METHODS.

NOTES: UNLESS OTHERWISE SPECIFIED



SECTION A  
 (TYPICAL TO-5)



8

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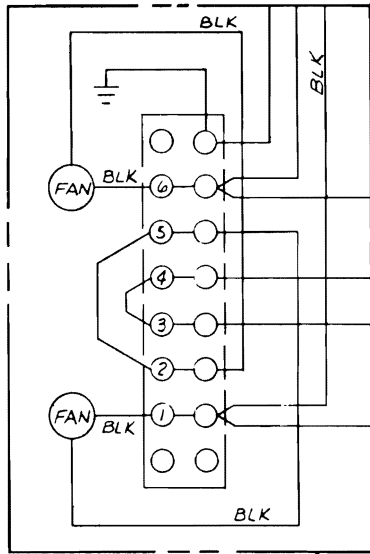
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D

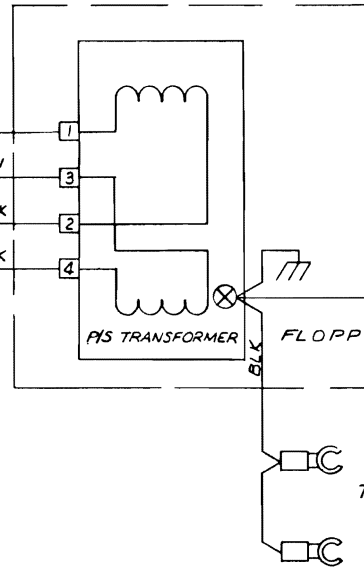
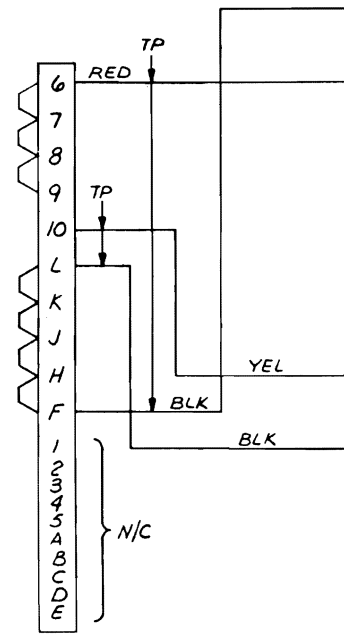
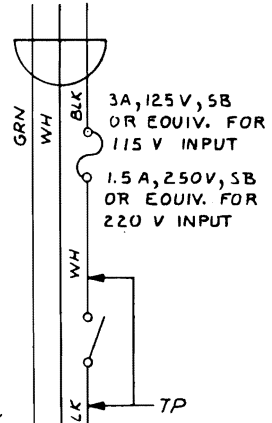
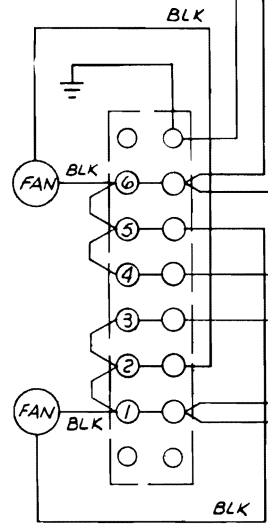
C

B

A



ALTERNATE TERMINAL BLOCK WIRING FOR 220V



1. "TP" INDICATES TWISTED PAIR WIRES.  
 NOTES: UNLESS OTHERWISE SPECIFIED.

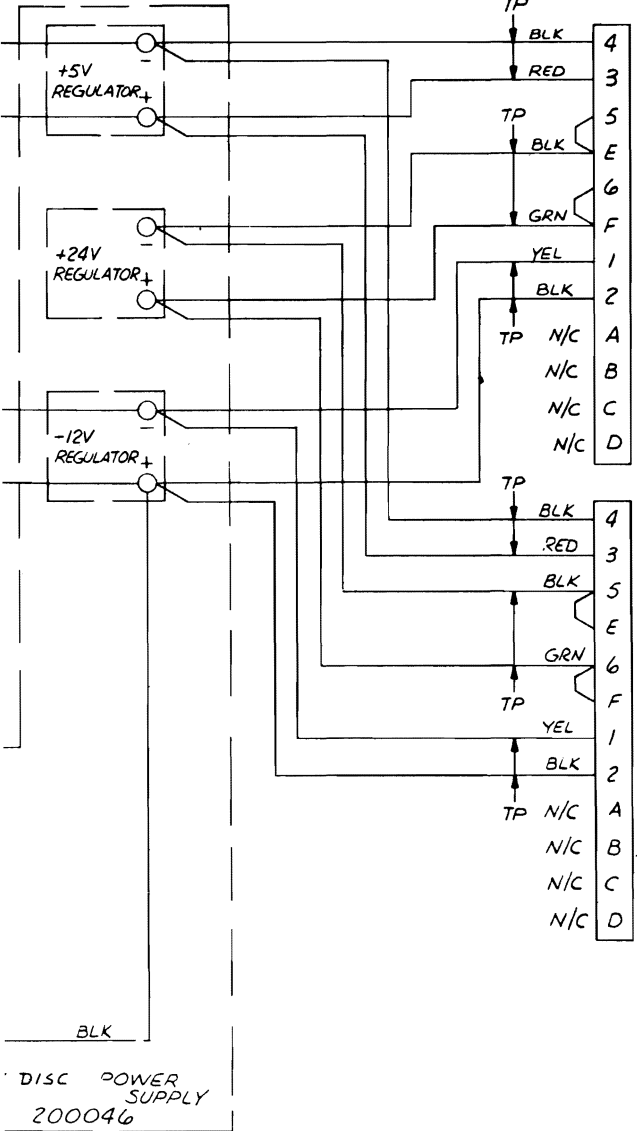
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



CHASSIS  
ON DRIVERS

D  
C  
B  
200042-200

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±                ±                ±		CONTRACT NO.	FD360 POWER SCHEMATIC
MATERIAL		APPROVALS    DATE DRAWN <i>Chok</i> 2/22/76 CHECKED <i>P.T. Spu</i> 4/21/76	
FINISH		SIZE    CODE IDENT NO.    DRAWING NO.	D                                200042-200
NEXT ASSY    USED ON		SCALE    NONE                                SHEET / OF / 1	
APPLICATION		DO NOT SCALE DRAWING	

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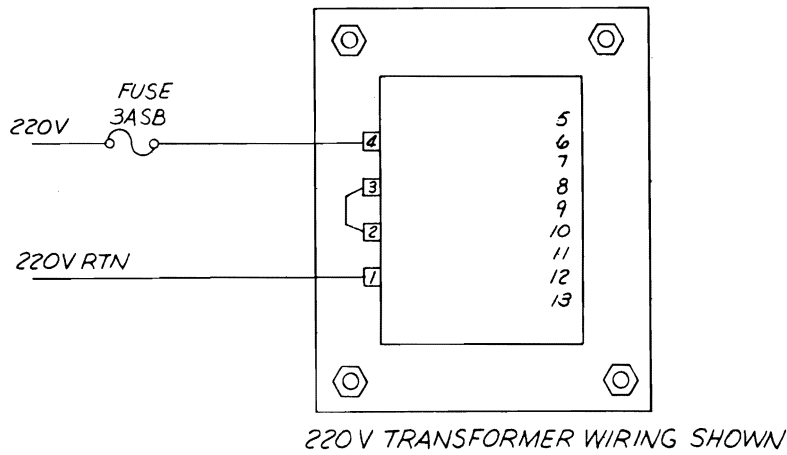
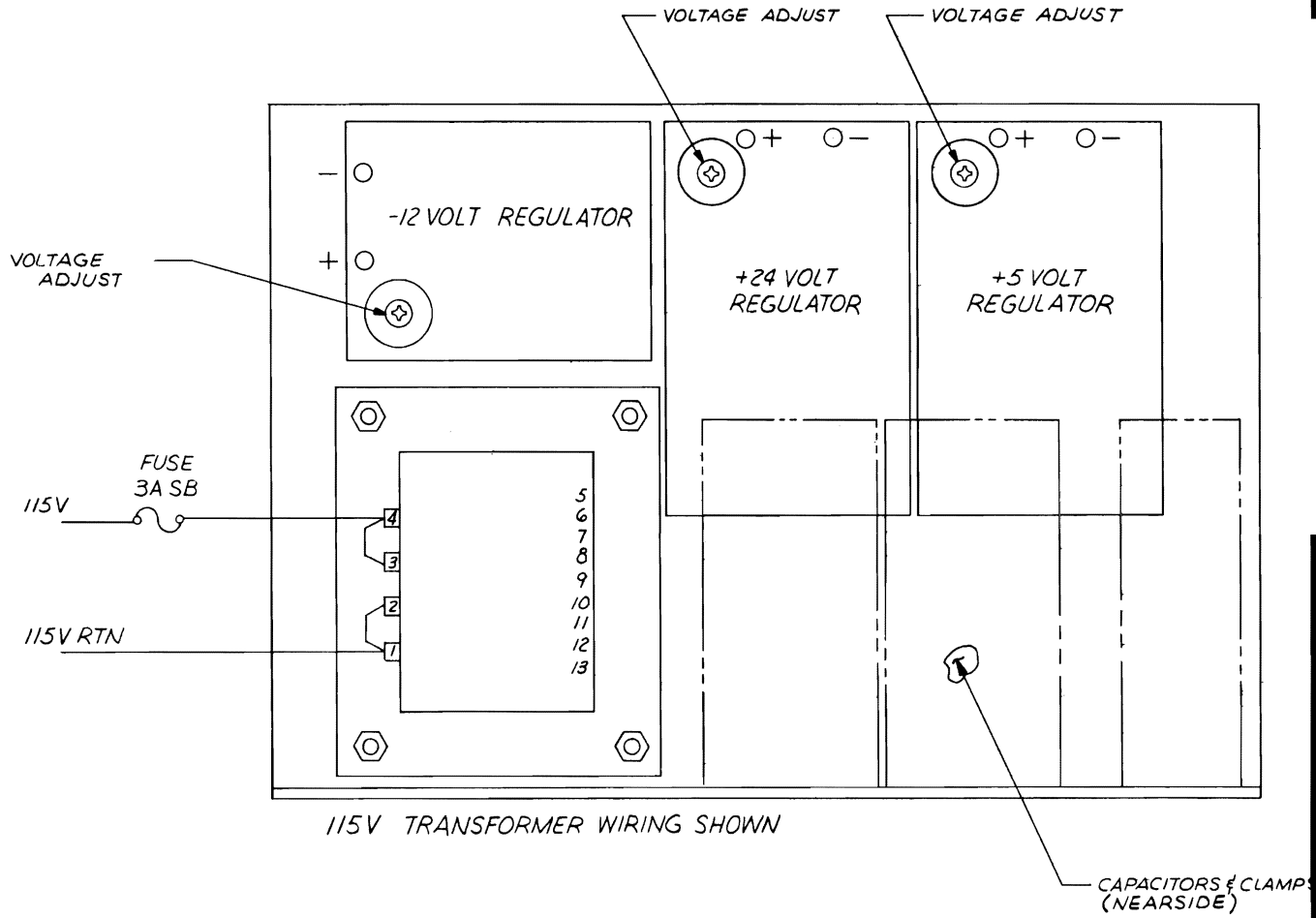
5

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1. FOR WIRING DIAGRAM SEE IC  
 NOTES: UNLESS OTHERWISE SPEC

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

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200046

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REMOVED FOR CLARITY

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.	
FRACTIONS	DECIMALS	ANGLES		
±	.XX ±	±	APPROVALS	DATE
	.XXX ±		DRAWN <i>Cook</i>	5/25/76
MATERIAL			CHECKED <i>J.P. Sen</i>	5/27/76
FINISH			ASSEMBLY-FRUGAL FLOPPY POWER SUPPLY (ADTECH S171)	
NEXT ASSY	USED ON		SIZE	CODE IDENT NO. DRAWING NO.
			D	200046
APPLICATION		DO NOT SCALE DRAWING	SCALE FULL	SHEET   OF

OM DWG NO. 200042-200. FIED

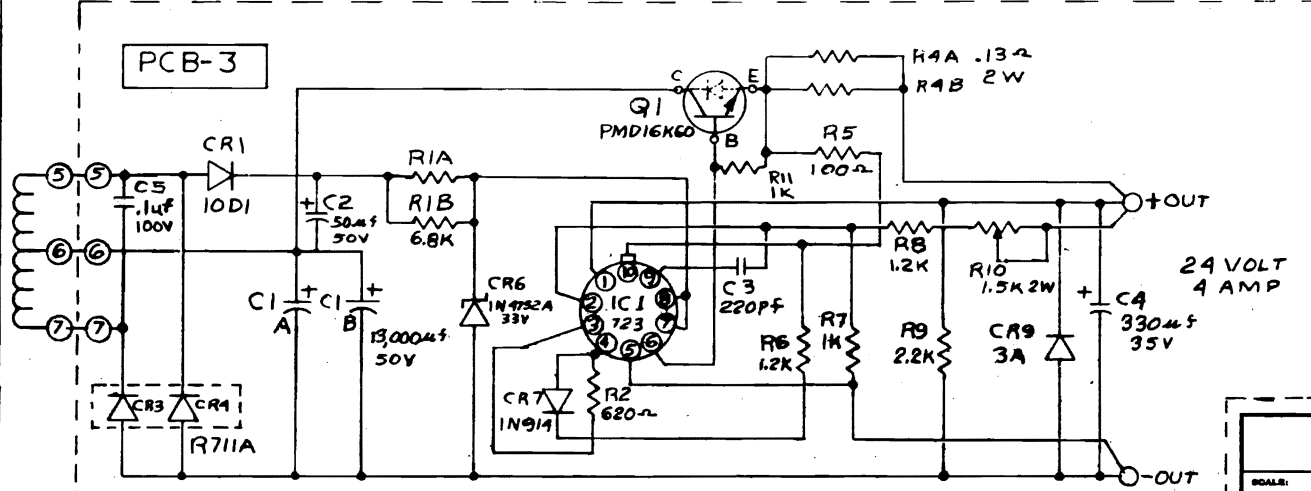
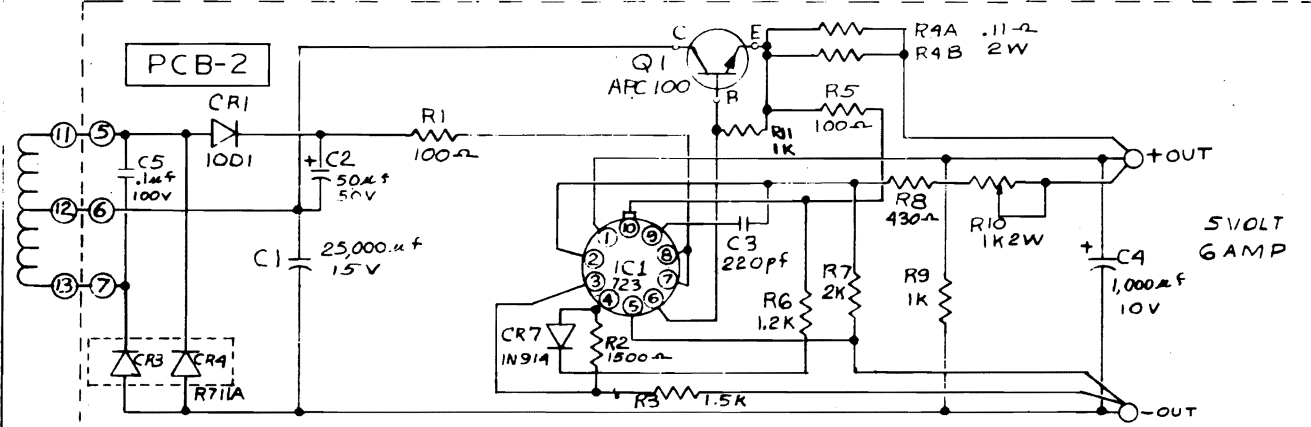
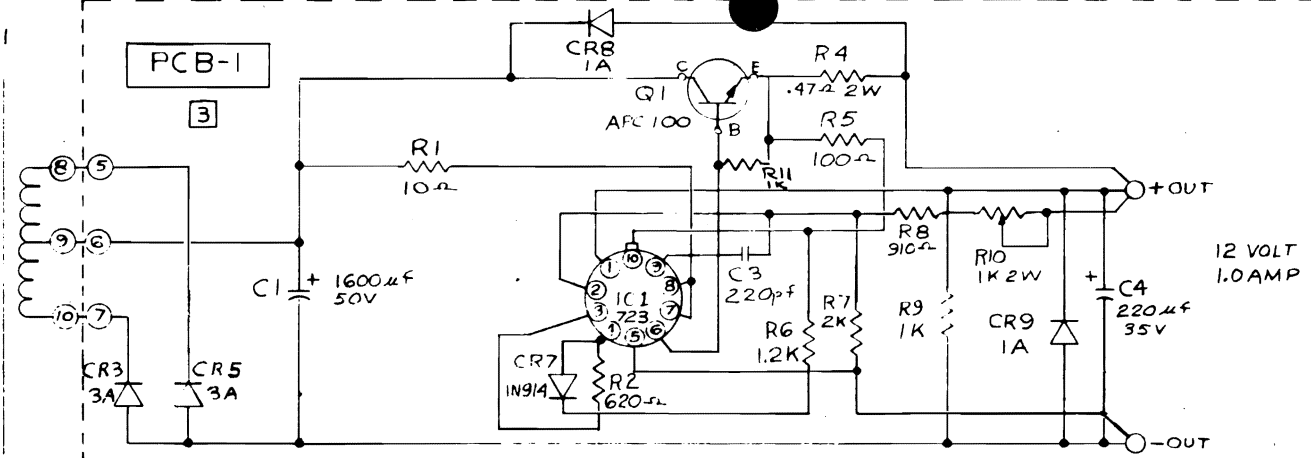
4

3

2

1

REV	REVISION REC'D	BY	APP
A	CR5 WAS CR3 (PCB-1) REF. DES. CHANGED TO AGREE WITH P.C. BOARD	CH	8-2-75
B	ADDED R11 TO PCB 1-2-3 ADDED C5 TO PCB 3	CH	7-12-75
C	R8 1.2K WAS 1K	CH	7-12-75
D	ADDED NOTE 3	CH	7-12-75



A.C. INPUT  
1-4  
FOR 115 VOLT  
JUMPER  
1-3 2-4  
FOR 230 VOLT  
JUMPER  
2-3 ONLY

NOTES: UNLESS OTHERWISE SPECIFIED—  
1. ALL RESISTORS ARE 1/2 W 5%, RESISTANCE IN OHMS  
2. SEE P/L 16-018 FOR PART LIST

3. ON PCB-1 (12V UNIT), DELETE C2, R3, CR1 & CR6  
REPLACE C2 WITH JUMPER.

**ADTECH POWER, INC.**  
ANAHEIM, CALIF.

SCALE: N/A	APPROVED BY: <i>[Signature]</i>	DATE: 7-10-75	DESIGNED BY: J.S.
SCHEMATIC, POWER SUPPLY			
OVER 30	WORKING NO. AP30-047	REV. 1	DATE 7-12-75



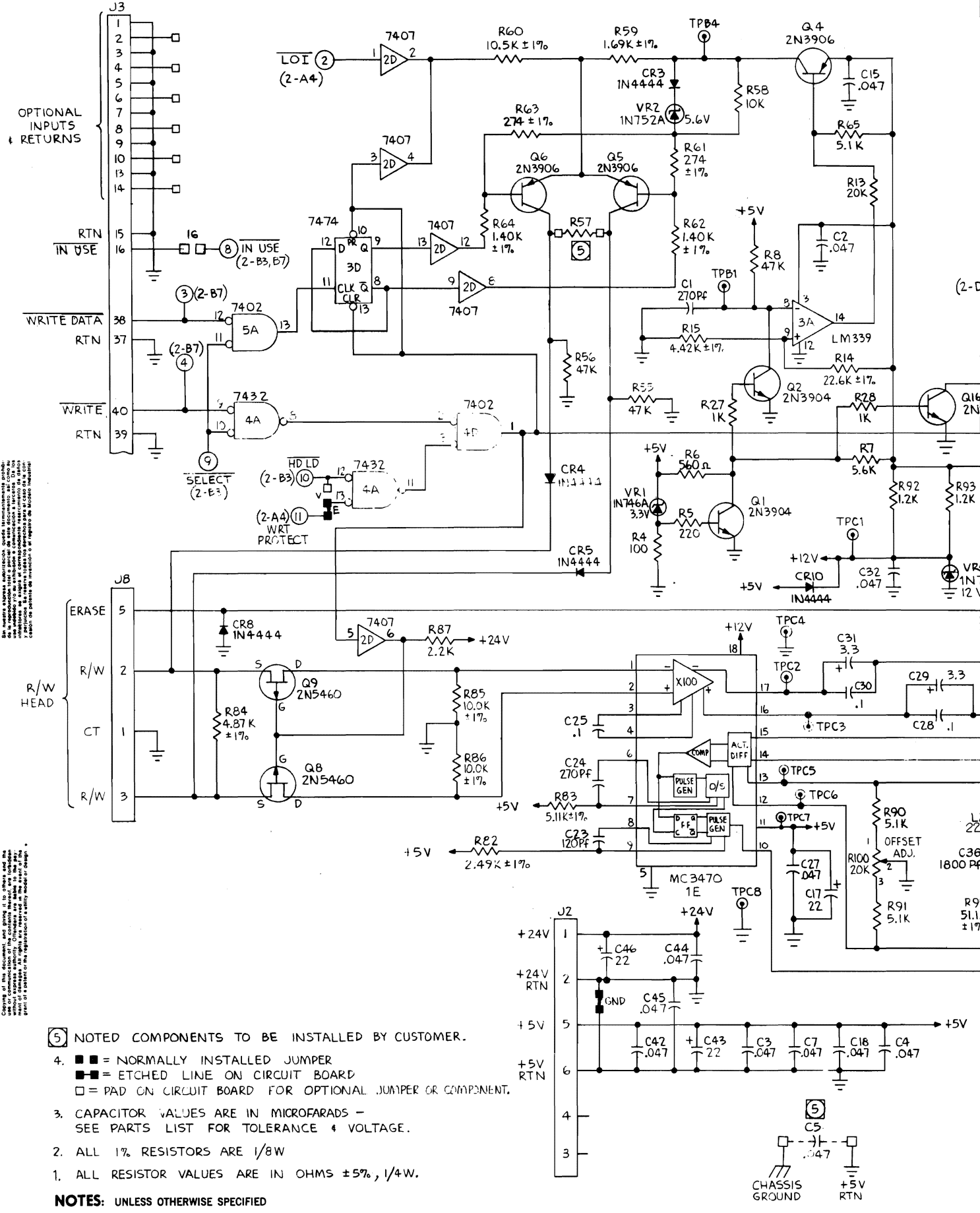
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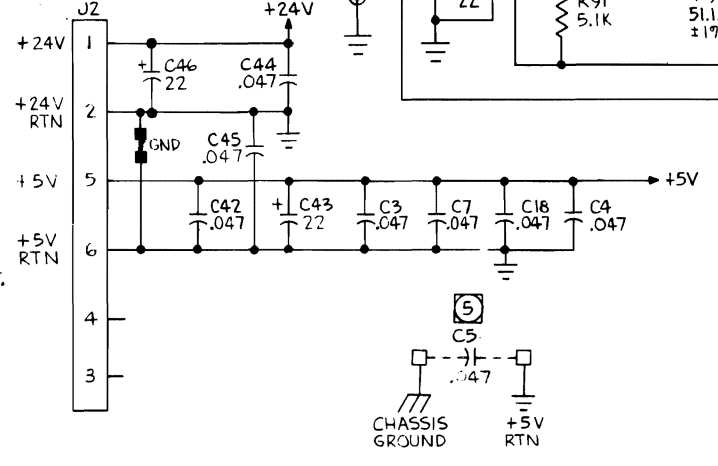
Copying of this document, and giving it to others, and the use of the information contained herein, is prohibited without the express authority of the manufacturer. The manufacturer assumes no responsibility for the use of the information contained herein in the design of a system or the adaptation of a safety-critical system.



5 NOTED COMPONENTS TO BE INSTALLED BY CUSTOMER.

4. ■ = NORMALLY INSTALLED JUMPER
- = ETCHED LINE ON CIRCUIT BOARD
- = PAD ON CIRCUIT BOARD FOR OPTIONAL JUMPER OR COMPONENT.
3. CAPACITOR VALUES ARE IN MICROFARADS - SEE PARTS LIST FOR TOLERANCE & VOLTAGE.
2. ALL 1% RESISTORS ARE 1/8W
1. ALL RESISTOR VALUES ARE IN OHMS ±5%, 1/4W.

NOTES: UNLESS OTHERWISE SPECIFIED



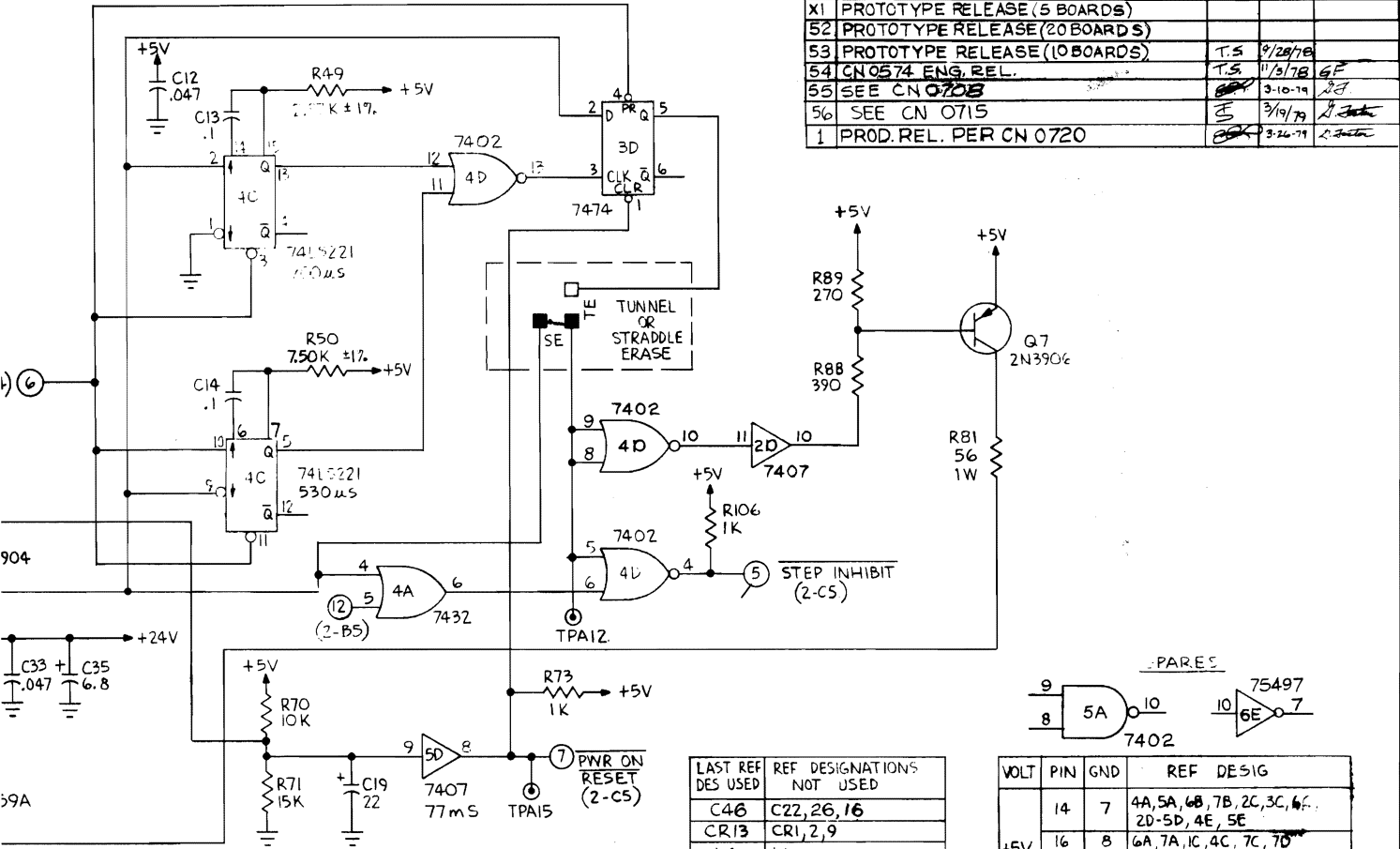
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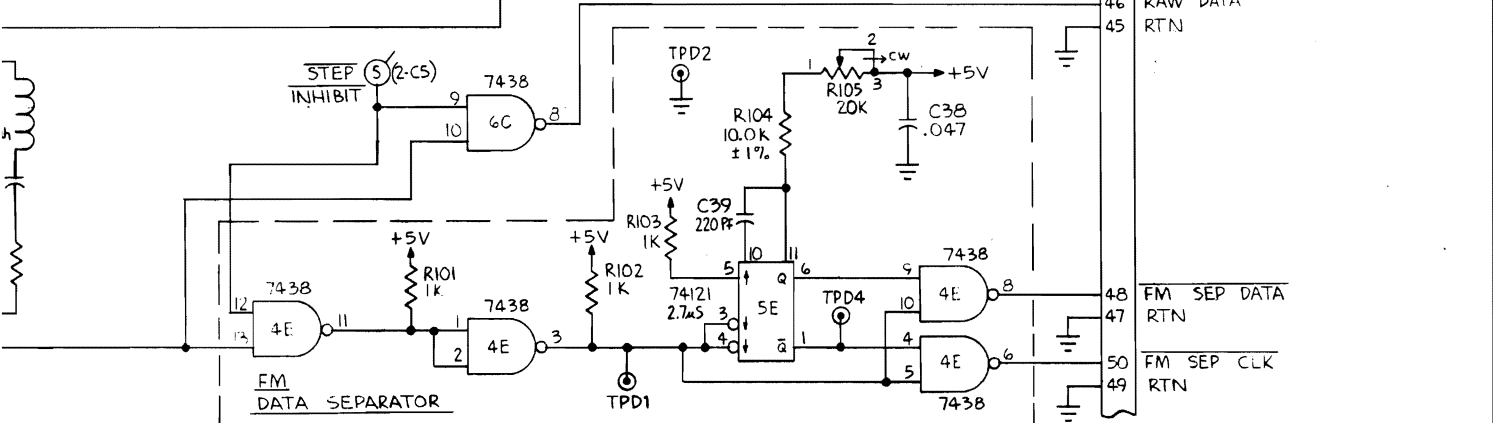
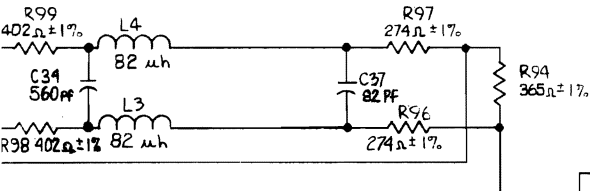
1

REVISIONS				
SYM	DESCRIPTION	BY	DATE	APPROVED
X1	PROTOTYPE RELEASE (5 BOARDS)			
52	PROTOTYPE RELEASE (20 BOARDS)			
53	PROTOTYPE RELEASE (10 BOARDS)	T.S	9/28/78	
54	CN 0574 ENG. REL.	T.S	11/3/78	GF
55	SEE CN 0708		3-10-79	GF
56	SEE CN 0715		3/19/79	GF
1	PROD. REL. PER CN 0720		3-26-79	GF



LAST REF DES USED	REF DESIGNATIONS NOT USED
C46	C22, 26, 16
CR13	CR1, 2, 9
L4	L1
Q16	
R112	R21, 29, 44, 45, 53, 54, 56, 67, 79, 80
VRS	VR3
	TPA3, A16, B2, D3

VOLT	PIN	GND	REF DESIG
+5V	14	7	4A, 5A, 6B, 7B, 2C, 3C, 6C
	16	8	2D-5D, 4E, 5E
	8	4	8D
	16	1	6E
	4	18	6D
+24V	3	12	3A
+12V	18	5	1E
+5VA	11		



QTY REQD	PART NO.	DESCRIPTION	ITEM NO.																								
MATERIAL LIST																											
NOTES UNLESS SPECIFIED		DRAWN	1/24/79																								
1 TOLERANCES UNLESS SPECIFIED		CHECK	G F 3-21-79																								
.XX ANGULAR		APPR	G F 3-21-79																								
.30		RELEASE																									
2 REMOVE ALL BURRS		<table border="1"> <tr> <td colspan="2">Siemens AG</td> <td>MODEL NO.</td> <td></td> </tr> <tr> <td colspan="2">3 BREAK ALL SHARP EDGES</td> <td>TITLE</td> <td>SCHMATIC DIAGRAM</td> </tr> <tr> <td colspan="2">.015 APPROX.</td> <td></td> <td>FDD100-8D-READ/WRITE</td> </tr> <tr> <td colspan="2">4 MACH SURFACES 15° OR BETTER</td> <td></td> <td>AND CONTROL LOGIC</td> </tr> <tr> <td colspan="2">5 DIM ARE IN INCHES</td> <td>SIZE</td> <td>DWG NO.</td> </tr> <tr> <td colspan="2">6 1 DIM ARE IN MILLIMETERS</td> <td></td> <td></td> </tr> </table>		Siemens AG		MODEL NO.		3 BREAK ALL SHARP EDGES		TITLE	SCHMATIC DIAGRAM	.015 APPROX.			FDD100-8D-READ/WRITE	4 MACH SURFACES 15° OR BETTER			AND CONTROL LOGIC	5 DIM ARE IN INCHES		SIZE	DWG NO.	6 1 DIM ARE IN MILLIMETERS			
Siemens AG				MODEL NO.																							
3 BREAK ALL SHARP EDGES				TITLE	SCHMATIC DIAGRAM																						
.015 APPROX.					FDD100-8D-READ/WRITE																						
4 MACH SURFACES 15° OR BETTER					AND CONTROL LOGIC																						
5 DIM ARE IN INCHES		SIZE	DWG NO.																								
6 1 DIM ARE IN MILLIMETERS																											
MATERIAL:		SCALE	DO NOT SCALE DWG																								
FINISH:		SHEET	OF 2																								
NEXT ASSY		QTY																									

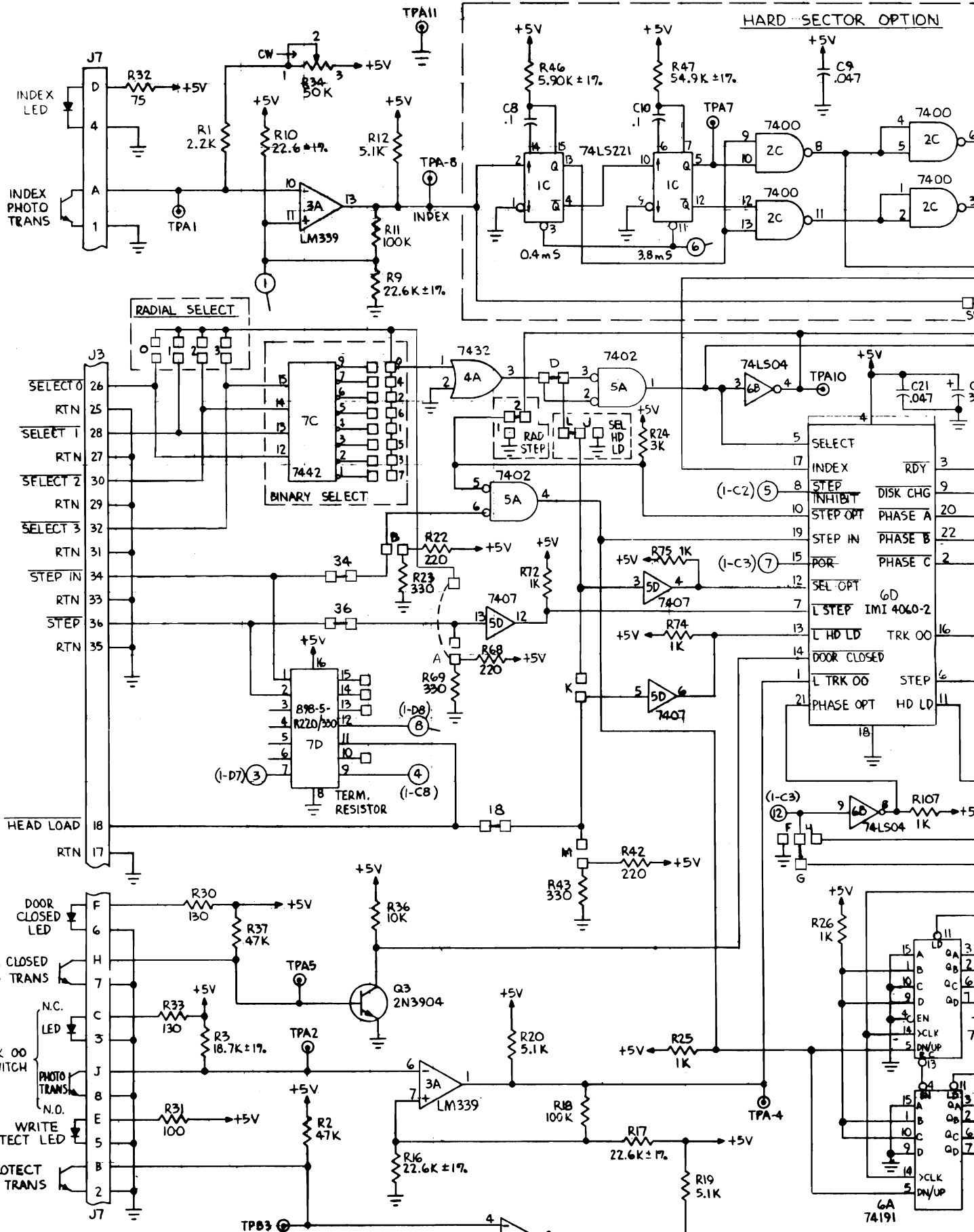
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A22741-1001-X000-11



**NOTES:** UNLESS OTHERWISE SPECIFIED  
SEE SHEET 1

D

C

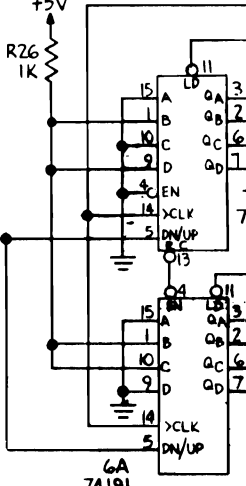
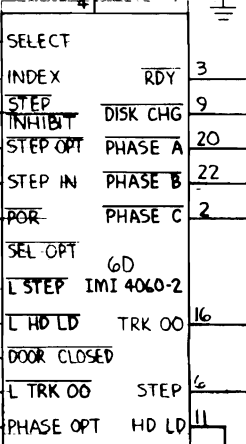
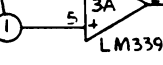
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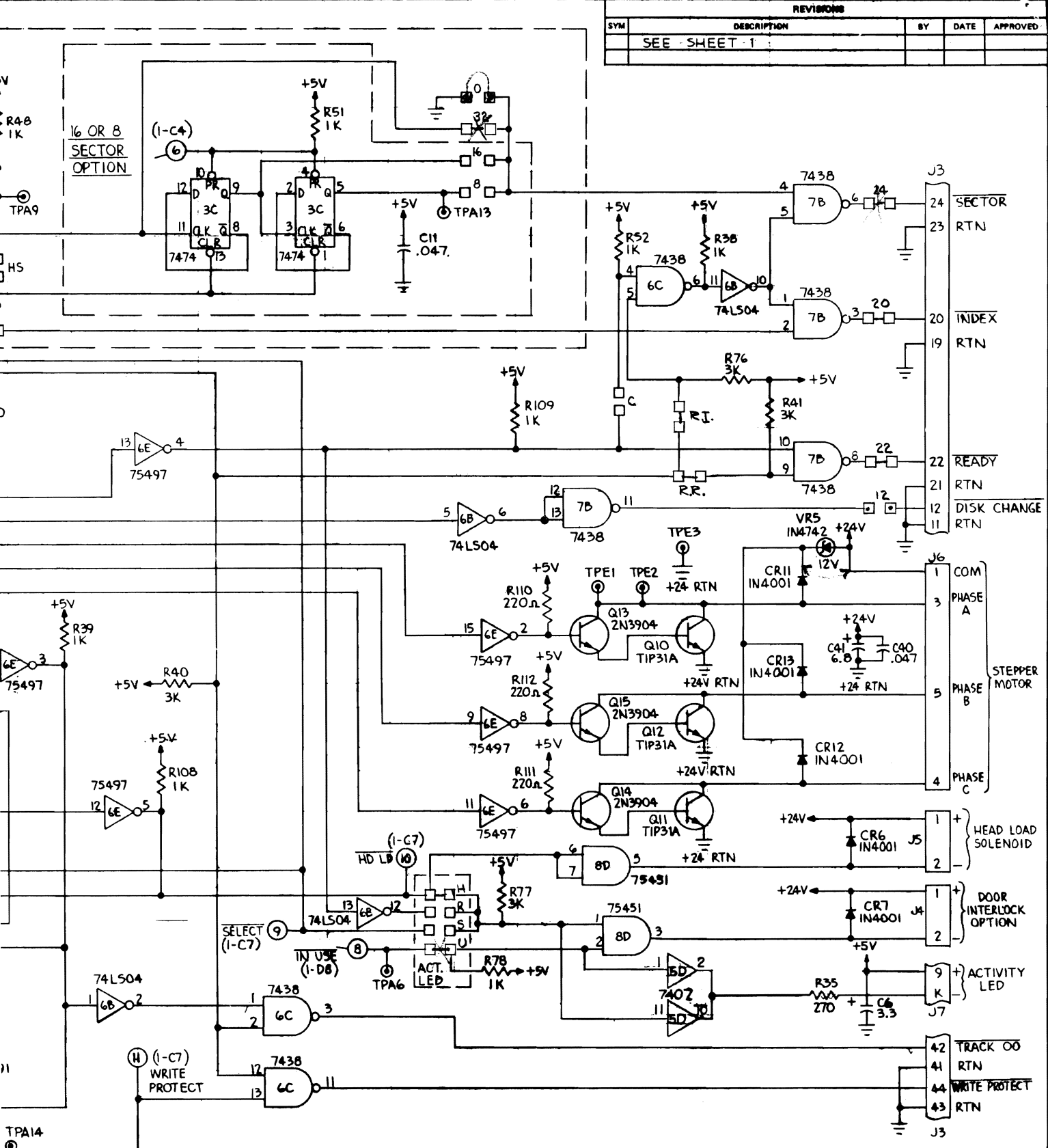
INDEX LED  
INDEX PHOTO TRANS  
SELECT 0  
RTN  
SELECT 1  
RTN  
SELECT 2  
RTN  
SELECT 3  
RTN  
STEP IN  
RTN  
STEP  
RTN  
HEAD LOAD  
RTN  
DOOR CLOSED LED  
DOOR CLOSED PHOTO TRANS  
N.C.  
LED  
TRACK 00 SWITCH  
PHOTO TRANS  
N.D.  
WRITE PROTECT LED  
WRT PROTECT PHOTO TRANS

J7  
D  
4  
R32 75  
+5V  
R1 2.2K  
TPA1  
R10 22.6K ±1%  
R12 5.1K  
R11 100K  
R9 22.6K ±1%  
R34 50K  
CW  
2  
3  
+5V  
TPA11  
R46 5.90K ±1%  
R47 54.9K ±1%  
C8 .1  
C10 .1  
TPA7  
74LS221  
7400  
7400  
7400  
C9 .047  
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R22 220  
R23 330  
R72 1K  
R75 1K  
R74 1K  
R69 330  
R68 220  
R20 5.1K  
R25 1K  
R18 100K  
R17 22.6K ±1%  
R19 5.1K  
R30 130  
R37 47K  
R3 18.7K ±1%  
R33 130  
R31 100  
R2 47K  
R16 22.6K ±1%  
R42 220  
R43 330  
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REVISIONS				
SYM	DESCRIPTION	BY	DATE	APPROVED
	SEE SHEET 1			



QTY	REQD	PART NO.	DESCRIPTION	ITEM NO.
MATERIAL LIST				
NOTES UNLESS SPECIFIED		DRAWN	STENANT	6/2/78
CHECK		G.F.		3-8-78
APPR		G. FURTER		3-8-78
RELEASE				
Siemens AG				
MODEL NO.		FDD 100-8D		
TITLE				
SCHEMATIC DIAGRAM, READ/WRITE AND CONTROL LOGIC				
MATERIAL:		SIZE	DWG NO.	REV
FINISH:		D	A22741-L001-X000-#-11	4
NEXT ASSY		QTY		SCALE
				DO NOT SCALE DIMS
				SHEET 2 OF 2