



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

SCHEMATIC AND  
LOGIC DIAGRAMS  
MODEL FD360

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DRAWING NUMBERS PCS

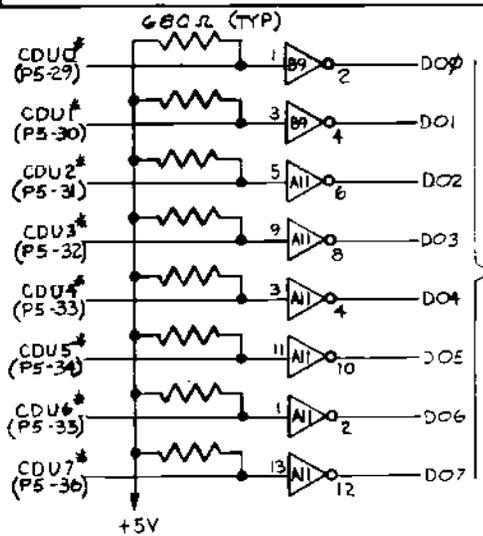
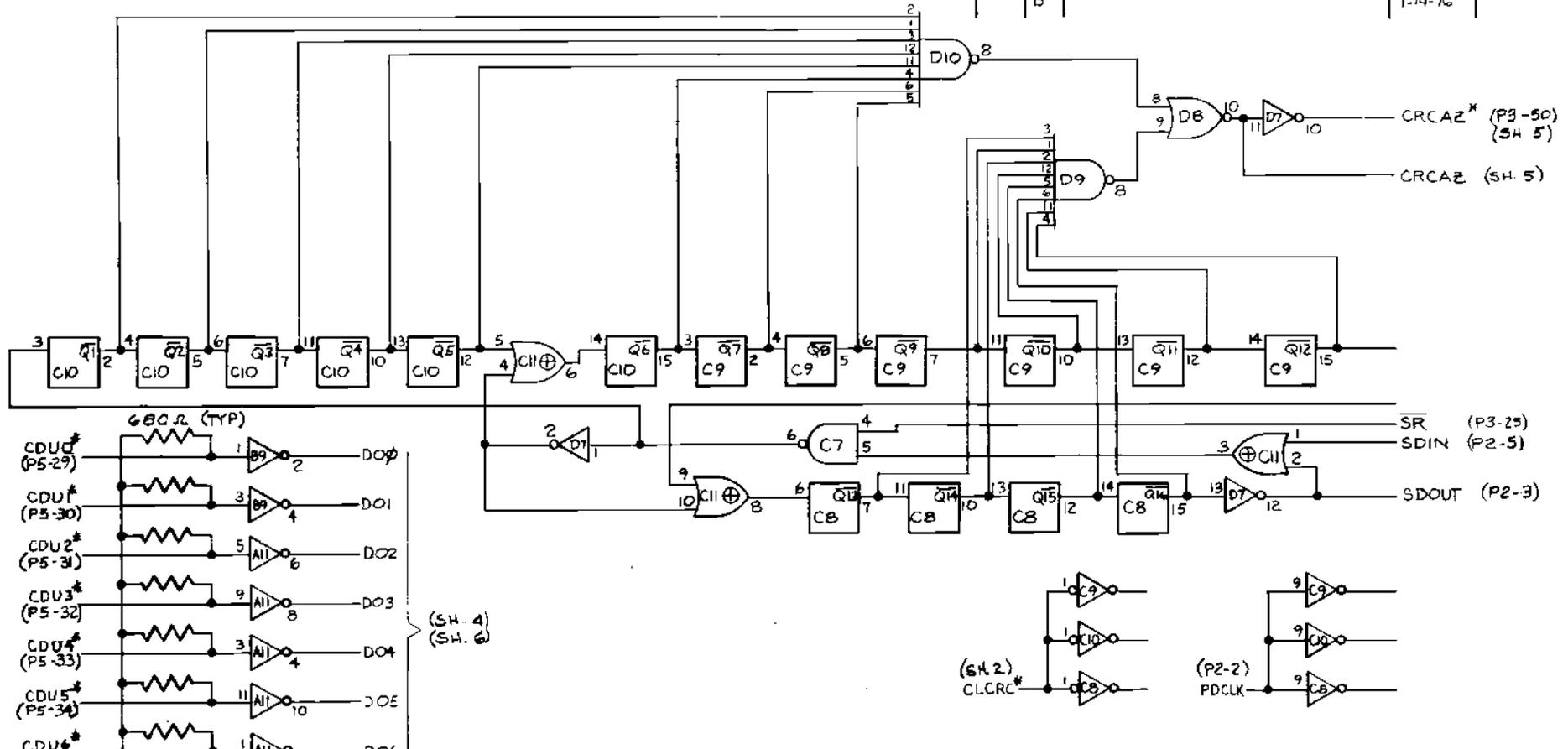
Z1 200028-200

Z2 200028-201

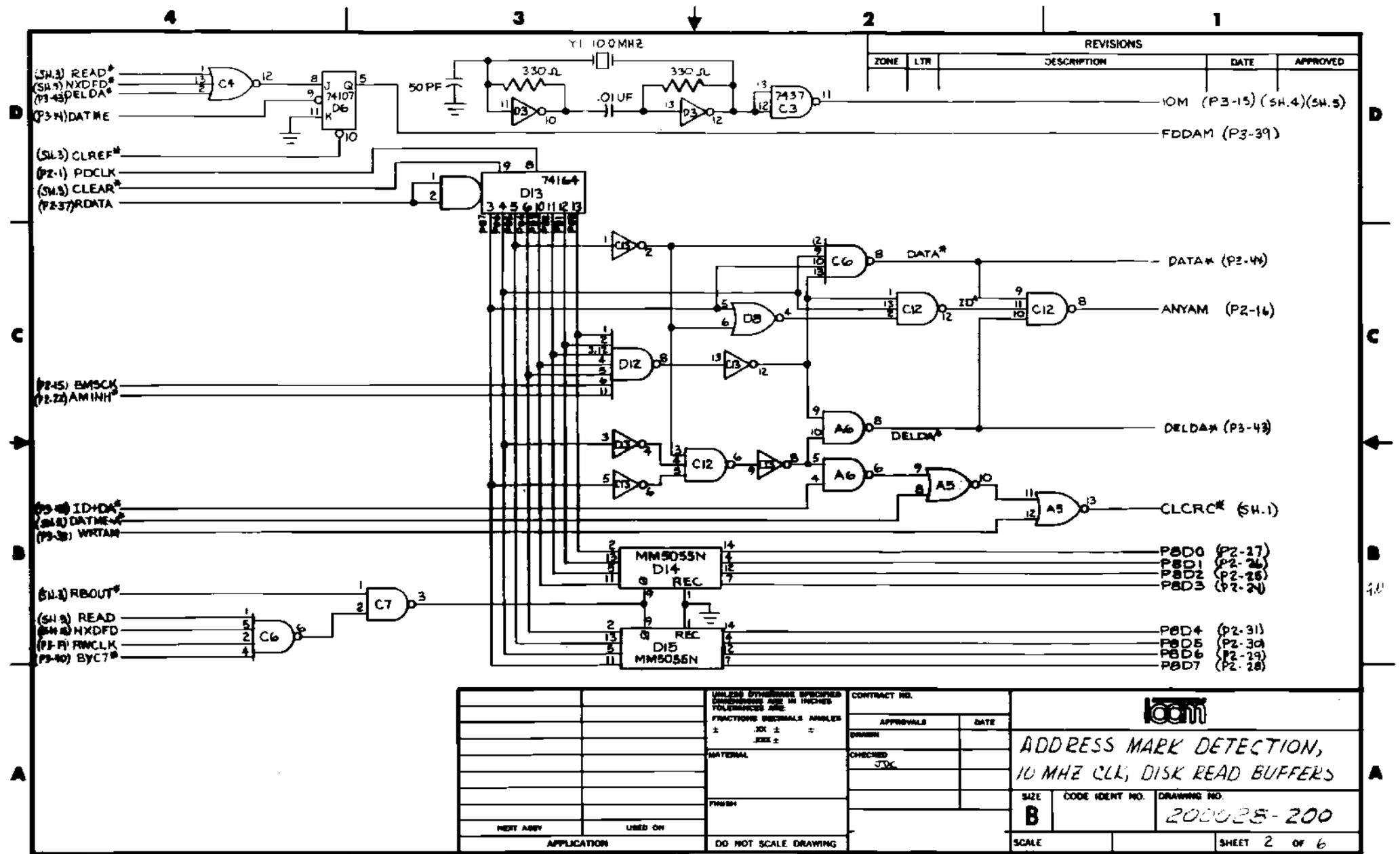
Mux 200012-200

March 1976

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



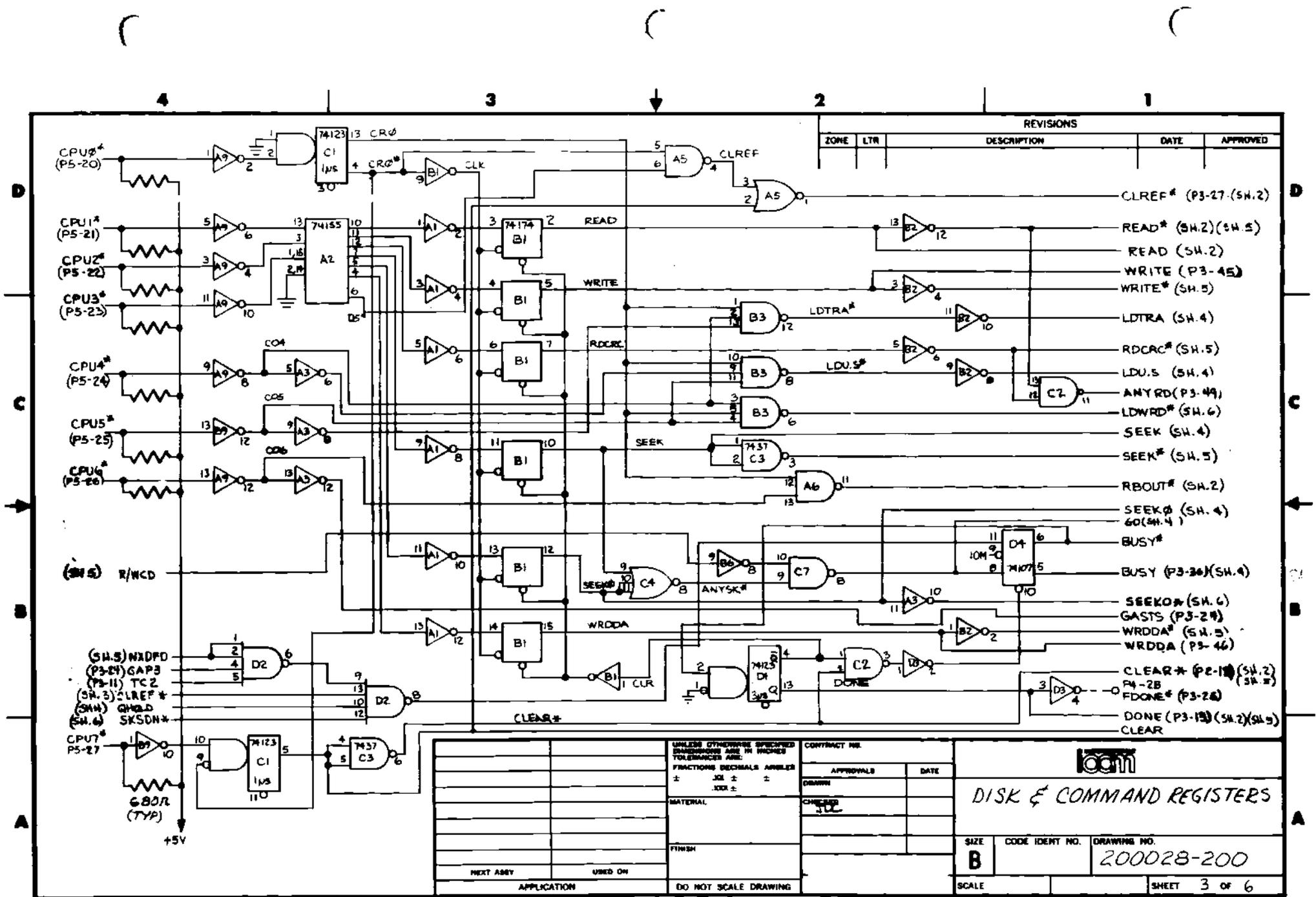
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± .XXX ±	CONTRACT NO.		
		MATERIAL	APPROVALS		
		FINISH	DRAWN		CRC REGISTER AND 21 DATA BUFFER (FROM CRC)
		NEXT ASSY	CHECKED		
APPLICATION		DO NOT SCALE DRAWING	SCALE	SIZE	CODE IDENT NO.
				B	200028-200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



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		10M (P3-15) (S4.4)(S4.5)		
		FDDAM (P3-39)		

- PBD0 (P2-17)
- PBD1 (P2-26)
- PBD2 (P2-25)
- PBD3 (P2-24)
- PBD4 (P2-31)
- PBD5 (P2-30)
- PBD6 (P2-29)
- PBD7 (P2-28)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .005 ± .005 ±		CONTRACT NO.		<b>ioam</b>	
INTERNAL		APPROVALS	DATE		
FINISH		CHECKED JJC		ADDRESS MARK DETECTION, 10 MHZ CLK, DISK READ BUFFERS	
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING		SIZE <b>B</b>	CODE IDENT NO. DRAWING NO. 200025-200
				SCALE	SHEET 2 OF 6



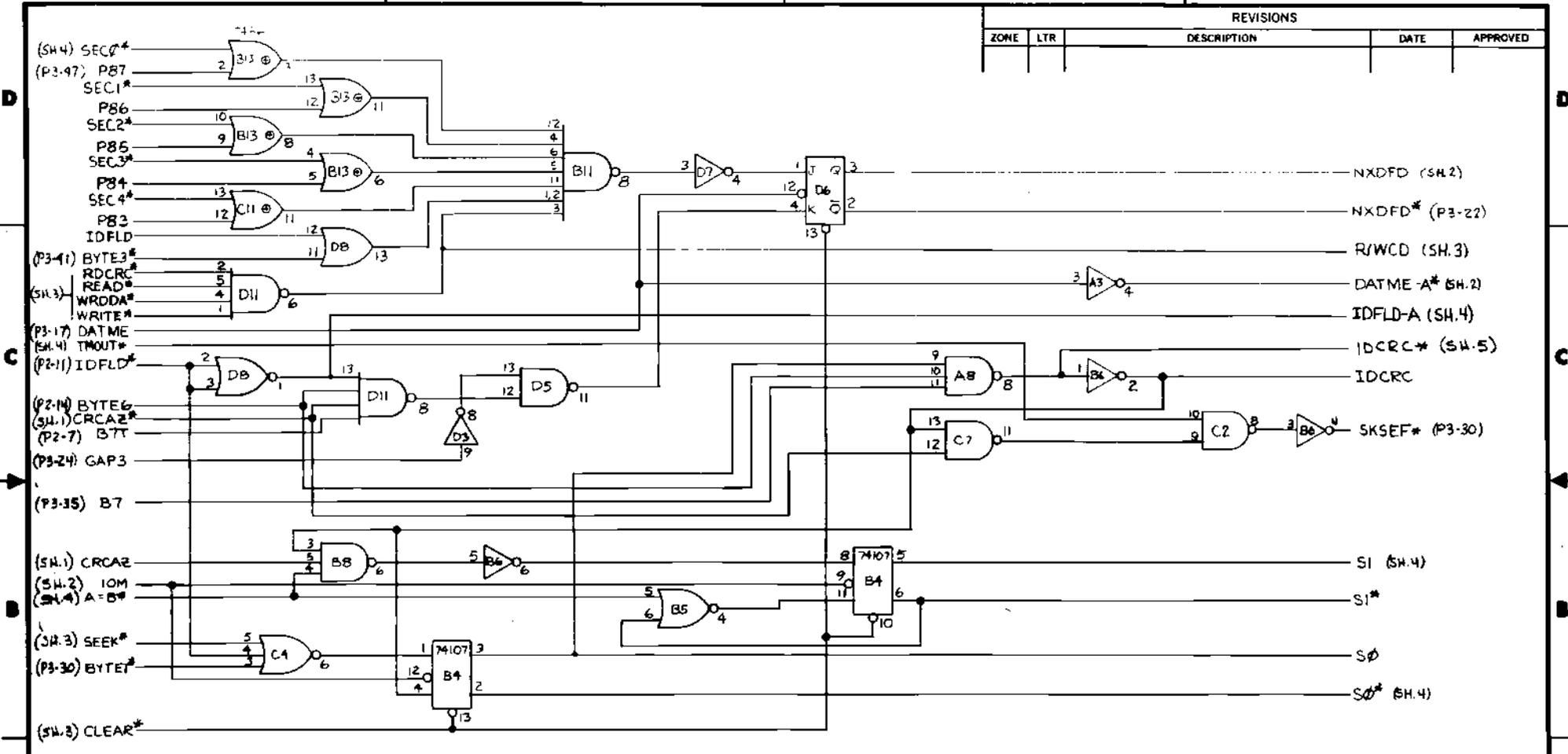
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

- CLREF\* (P3-27)(SH.2)
- READ\* (SH.2)(SH.5)
- READ (SH.2)
- WRITE (P3-45)
- WRITE\* (SH.5)
- LDTRA (SH.4)
- RDCRC\* (SH.5)
- LDU.S\* (SH.4)
- ANYRD (P3-49)
- LDWRD\* (SH.6)
- SEEK (SH.4)
- SEEK\* (SH.5)
- RBOUT\* (SH.2)
- SEEKØ (SH.4)
- 60 (SH.4)
- BUSY\*
- BUSY (P3-30)(SH.4)
- SEEKØ\* (SH.6)
- GASTS (P3-29)
- WRDDA\* (SH.5)
- WRDDA (P3-46)
- CLEAR\* (P2-18)(SH.2)
- P4-2B (SH.3)
- FDONE\* (P3-26)
- DONE (P3-15)(SH.2)(SH.5)
- CLEAR

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .01 ± .005 ±		CONTRACT NO.		
MATERIAL		APPROVALS		
FINISH		CHECKED	<b>DISK &amp; COMMAND REGISTERS</b>	
NEXT ASSEMBLY USED ON		DATE		
APPLICATION		SCALE	SIZE <b>B</b>	CODE IDENT NO.
DO NOT SCALE DRAWING		DRAWING NO. <b>200028-200</b>		SHEET 3 of 6

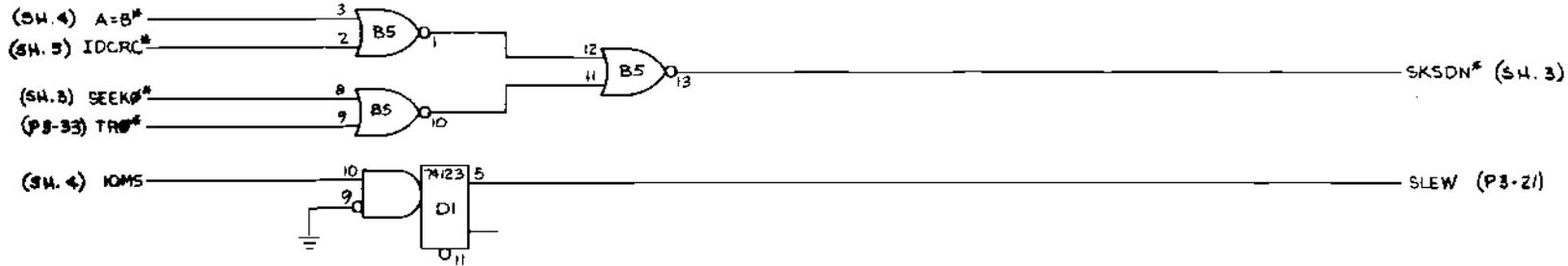
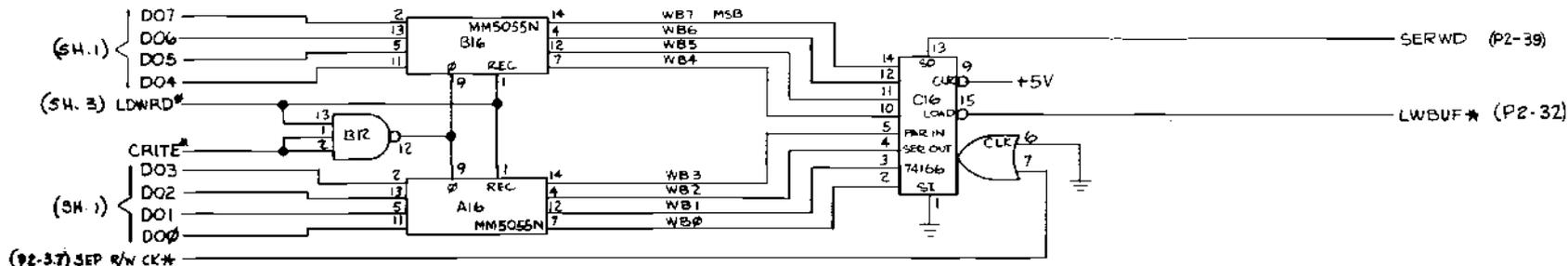


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

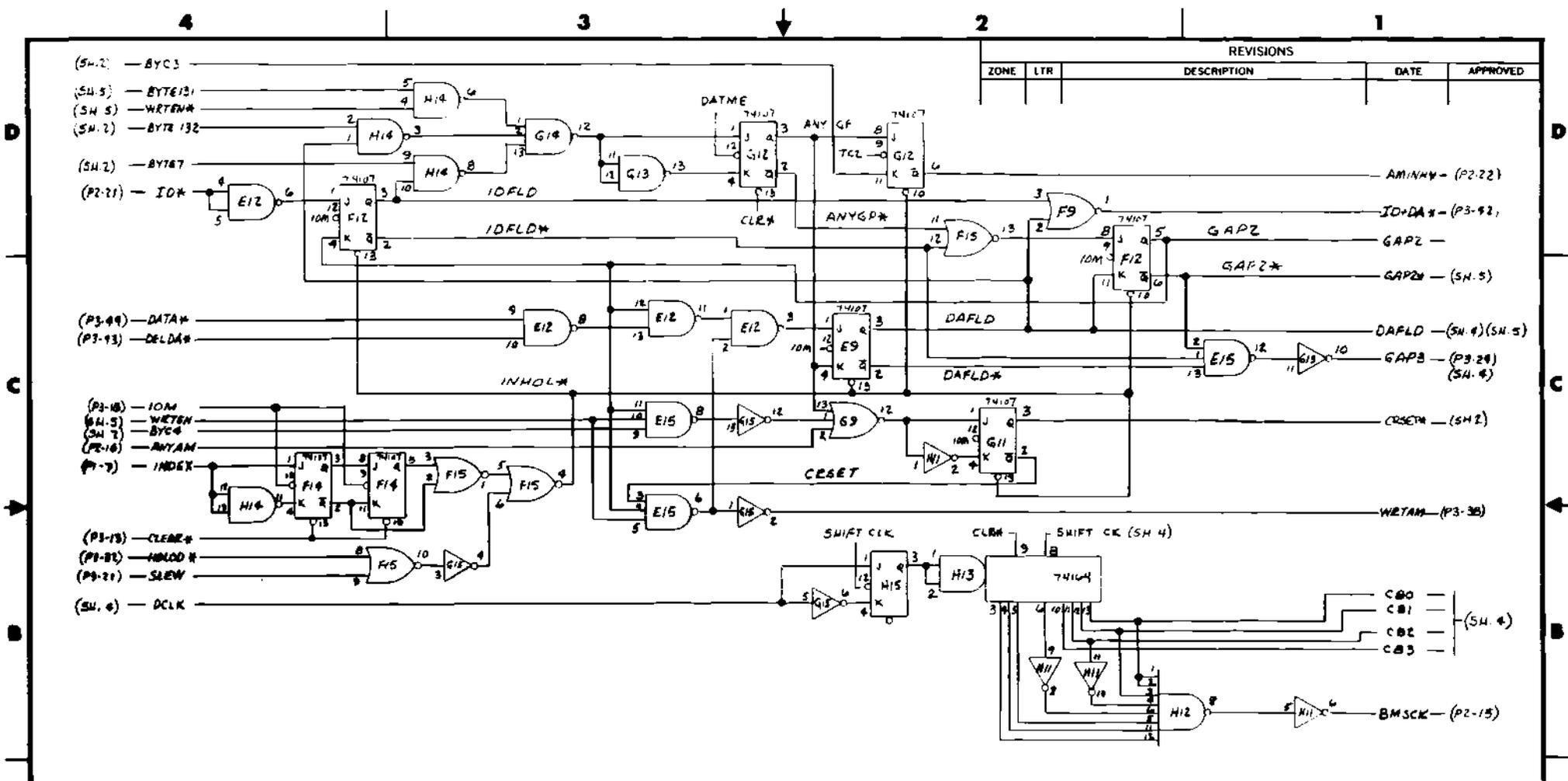


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± . ± .XXX ± .		CONTRACT NO.		
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN		SEEK TRACK, SECTOR SEEK
NEXT ASSY		CHECKED		
USED ON		JDC		SIZE <b>B</b>
APPLICATION		DRAWING NO. 200028-200		CODE IDENT NO.
DO NOT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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ± XXX ±		CONTRACT NO.		 <b>WRITE BUFFER AND COMMAND BUFFERS (FROM CPU)</b>	
MATERIAL		APPROVALS			
FINISH		DRAWN		CHECKED JDC	
NEXT ASSY	USED ON	SIZE <b>B</b>		CODE IDENT NO.	DRAWING NO. 200028-200
APPLICATION		SCALE		SHEET 6 OF 6	



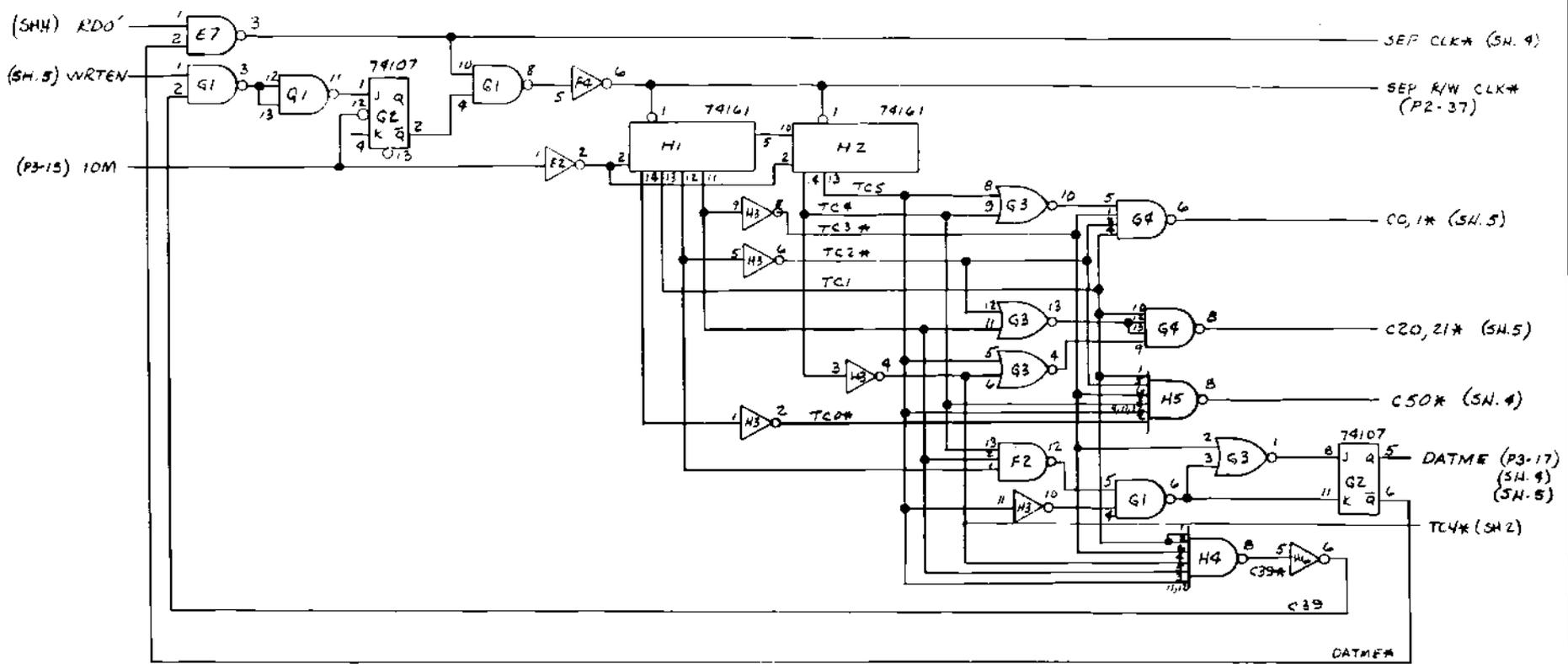
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

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



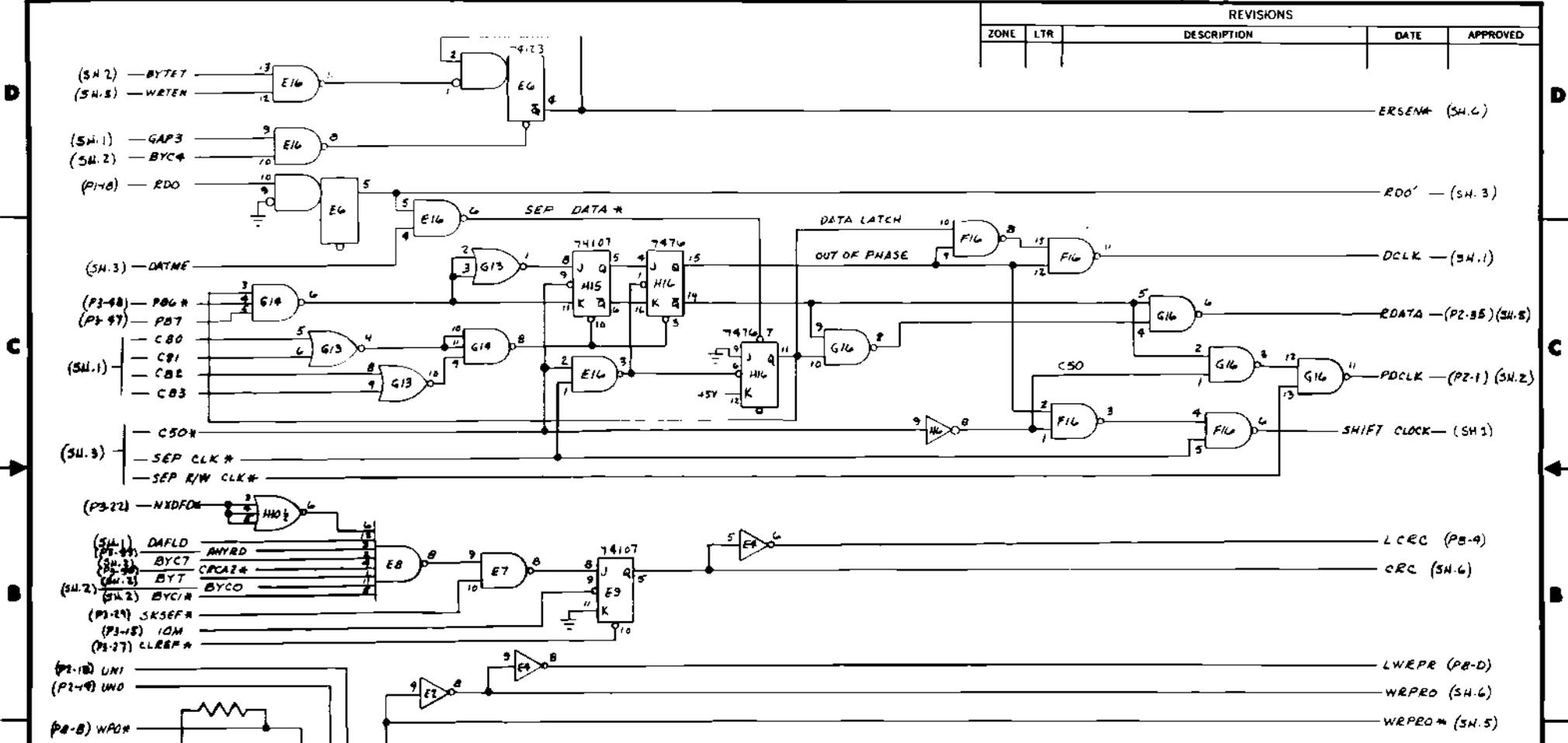


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



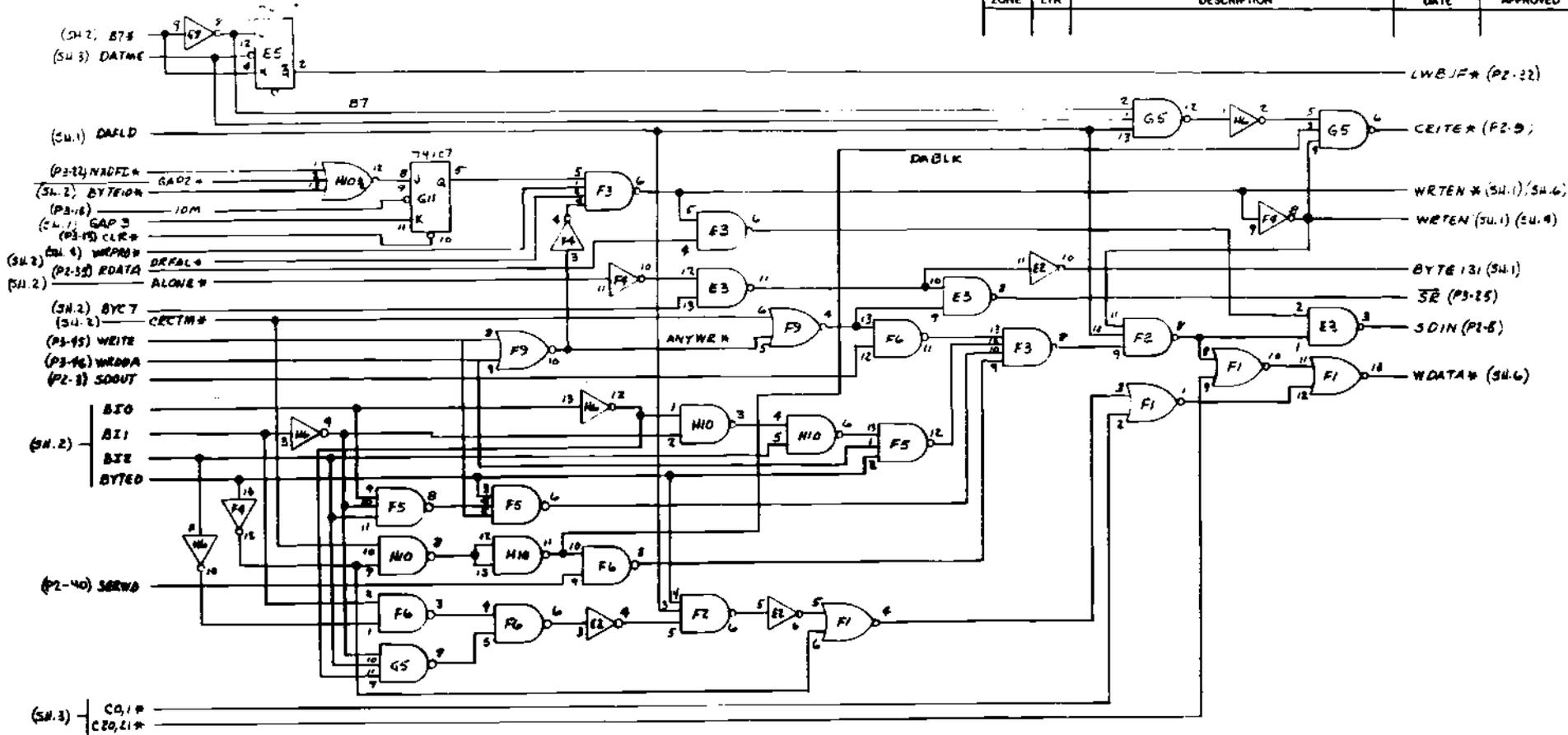
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES + XX ± XXX >		CONTRACT NO.		
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN	CHECKED	DATA SEPARATOR
NEXT ASSY	USED ON	DRAWING NO. <b>200028-201</b>		
APPLICATION		DO NOT SCALE DRAWING	SCALE	SIZE <b>B</b> CODE IDENT NO.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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± .0		CONTRACT NO.			
MATERIAL		APPROVALS			
FINISH		DRAWN		DATA LATCH, ERASE TRIM, CRC ERROR LATCH	
NEXT ASSY		CHECKED		SIZE	CODE IDENT NO
USED ON				B	200028-201
APPLICATION		DO NOT SCALE DRAWING		SCALE	SHEET 4 OF 6

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

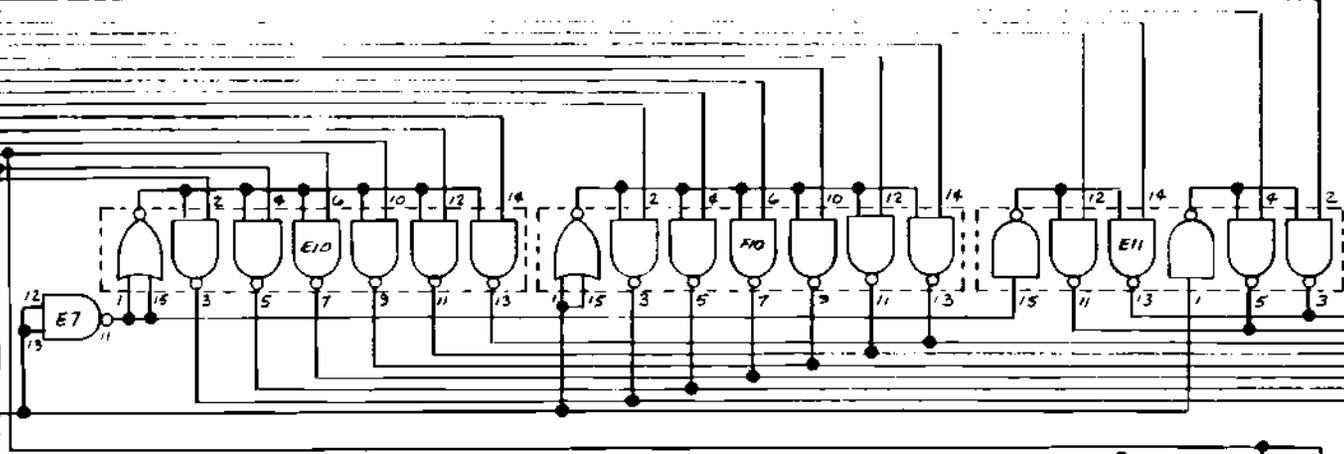


		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .005 ± .002 ±		CONTRACT NO.	
		MATERIAL		APPROVALS	
		FINISH		DATE	
		APPLICATION		DRAWN	
		DO NOT SCALE DRAWING		CHECKED TCC	
				DISK WRITE LOGIC	
				SIZE B CODE IDENT NO. DRAWING NO	
				200028-201	
				SCALE SHEET 5 OF 6	

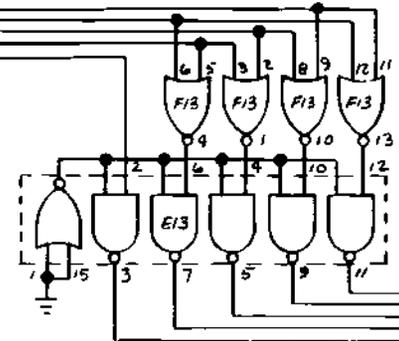
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

- (P2-17) (P2-16) — PBD1 PBD0
- (P2-17) (P2-15) — PBD2 FDDAM
- (P2-18) (P2-14) — PBD3
- (P2-30) (P2-31) — PBD4 PBD5
- (P2-30) (P2-29) — PBD6
- (P2-18) (P2-6) — DRPAL PBD7
- (SM-4) (SM-4) — WRPRO
- (P2-18) (SM-4) — CEC UNI
- (P2-18) (P2-19) — UNO BUSY

- (P2-17) (P2-20) — UNO\* UN1\*
- (SM-5) — WDATA\*
- (P2-25) (P2-27) — STIN\*
- (P2-25) (P2-23) — PHLOD\* STOUT\*
- (SM-4) (SM-5) — WEENA\* HIGH Z\*
- (SM-4) (SM-5) — ERSEN\*



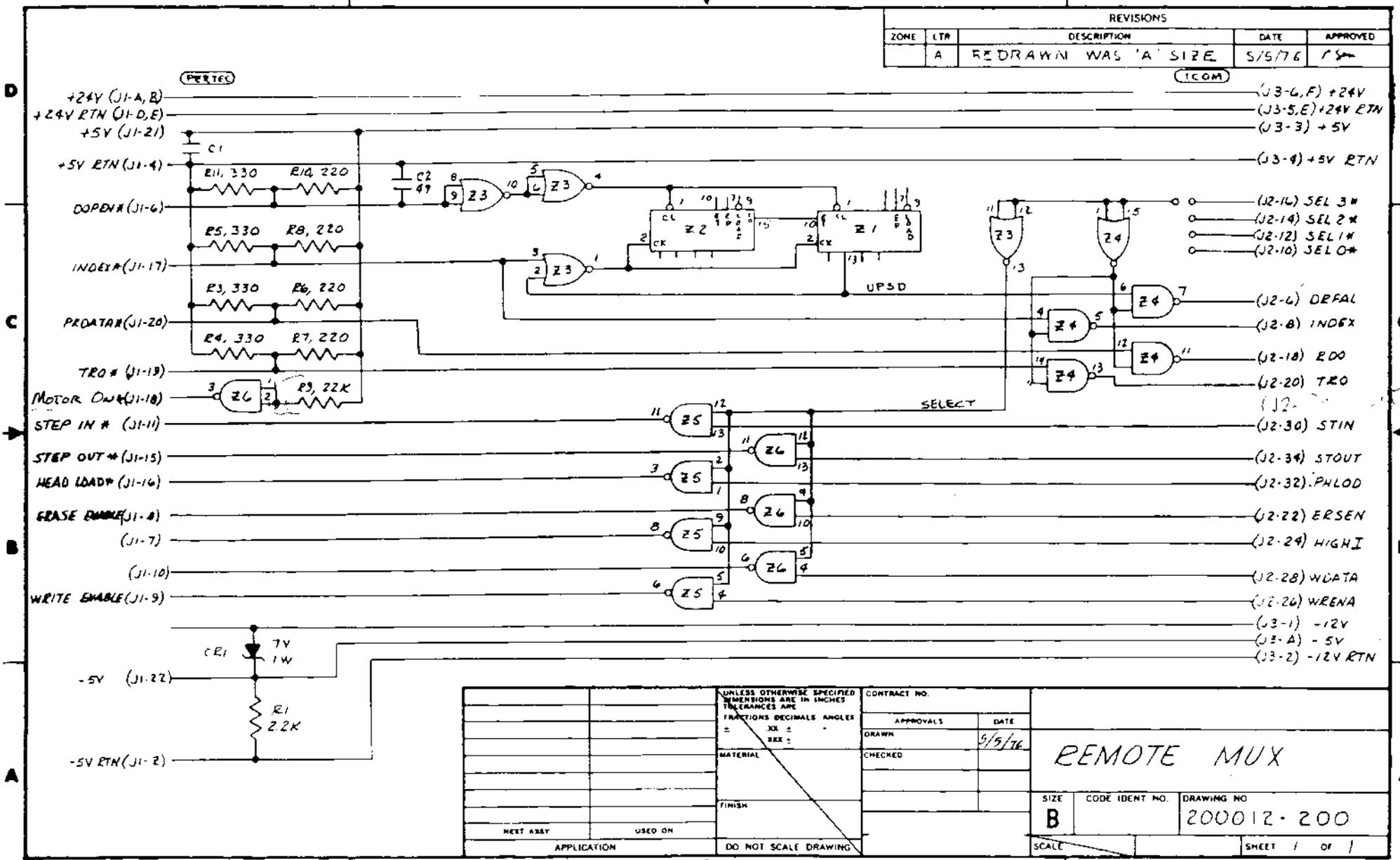
- DI6 — P4-35
- DI7 — P2-29
- DI5 — P2-31
- DI4 — P2-30
- DI3 — P2-31
- DI2 — P2-31
- DI1 — P2-29
- DI0 — P2-29



- SEL1\* — P4-10
- SEL2\* — P4-11
- SEL3\* — P4-12
- WDATA\* — P4-13
- STIN\* — P4-20
- PHLOD\* — P4-21
- HIGH Z\* — P4-22
- WEENA\* — P4-23
- ERSEN\* — P4-24

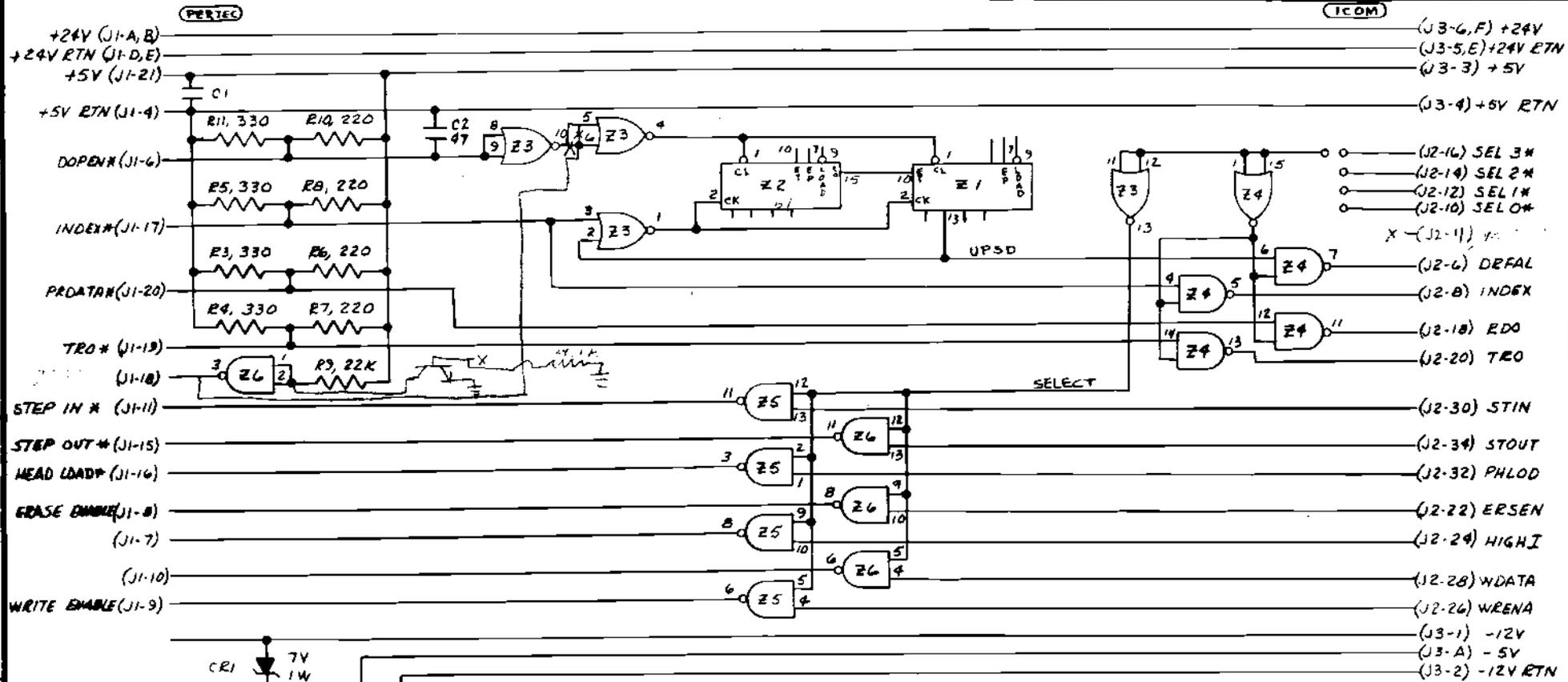
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .005 ± .005 ± .005 MATERIAL FINISH		CONTRACT NO. APPROVALS DATE DRAWN CHECKED 20C		<b>loom</b>  <b>OUTPUT DRIVERS</b>	
NEXT ASSY USED ON APPLICATION		DO NOT SCALE DRAWING			
SCALE				SHEET 6 OF 6	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		REDRAWN WAS 'A' SIZE	5/5/76	18m



CONTRACT NO.		DATE	
APPROVALS		5/5/76	
DRAWN			
CHECKED			
<b>REMOTE MUX</b>			
SIZE	CODE IDENT NO.	DRAWING NO.	
B		200012-200	
SCALE		SHEET 1 OF 1	

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



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	
USED ON		<h1 style="text-align: center;">REMOTE MUX</h1>	
APPLICATION			
DO NOT SCALE DRAWING		SIZE	CODE IDENT NO.
		B	200012-200
		SCALE	DRAWING NO.
			200012-200
			SHEET 1 OF 1

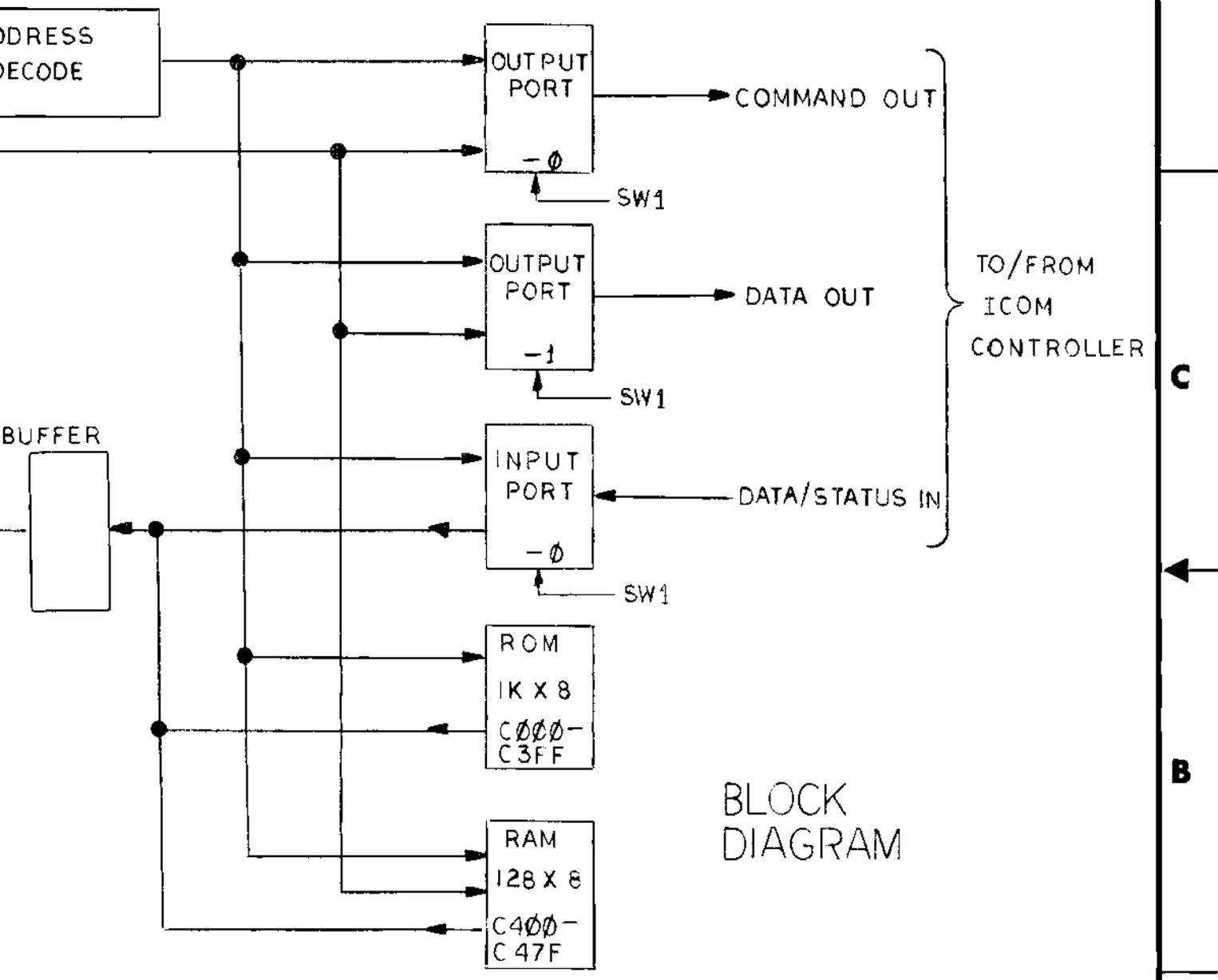




2

1

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



BLOCK DIAGRAM

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 <i>J. FAZIO</i>	
CHECKED	

SCHEMATIC, 8800 INTERFACE		
SCALE		SHEET 1 OF 3

2

1

D

C

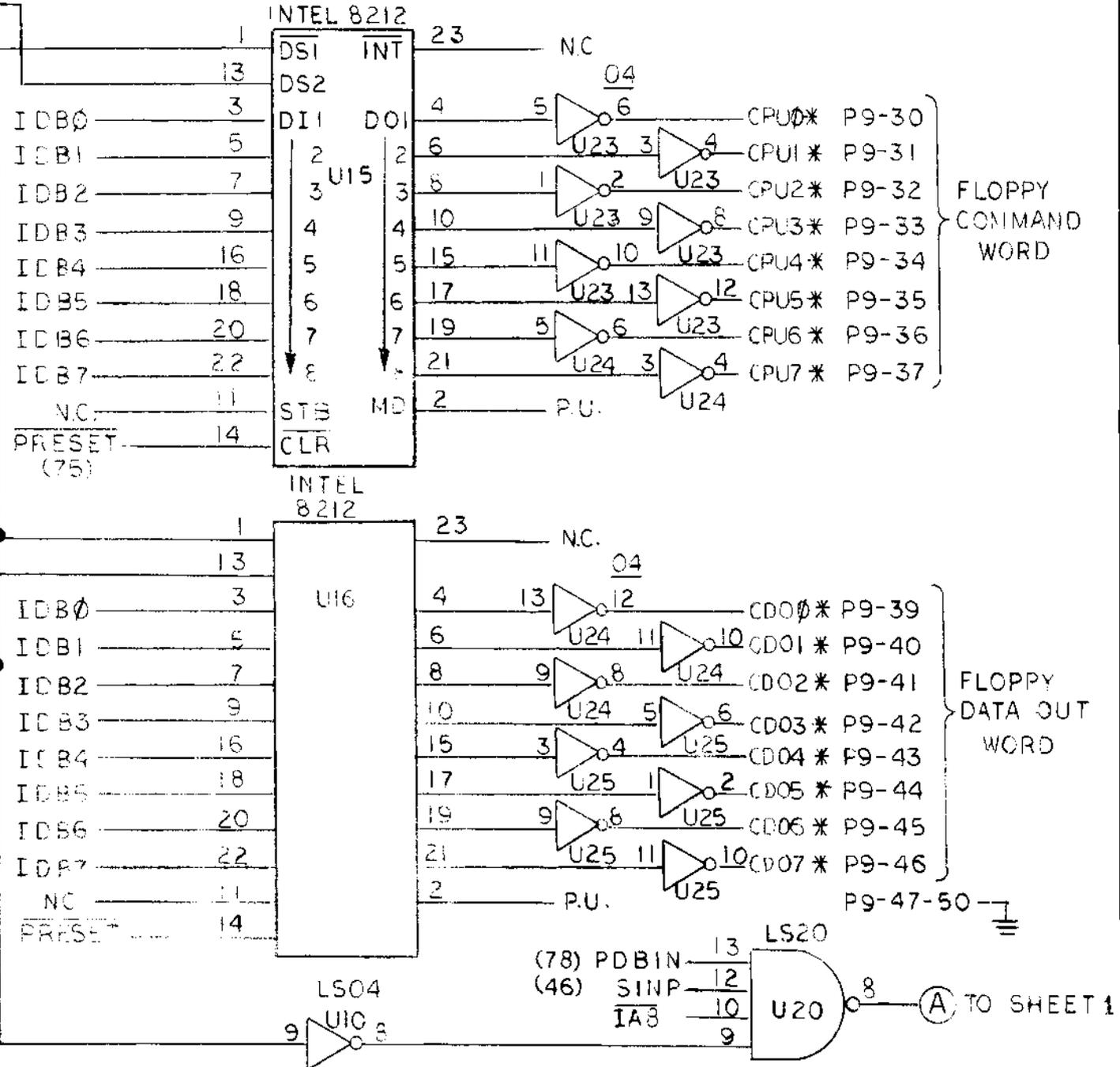
B

A



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	

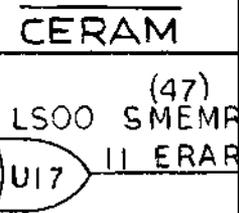
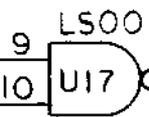
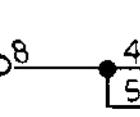
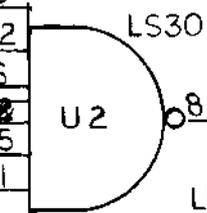
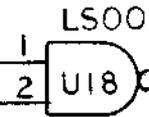
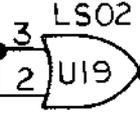
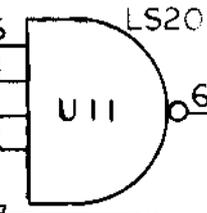
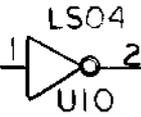
SCHEMATIC, 8800 INTERFACE		
SIZE <b>B</b>	CODE IDENT NO.	DRAWING NO. 200057-200 <b>B</b>
SCALE	SHEET 2 OF 3	

D

(68) MWRITE

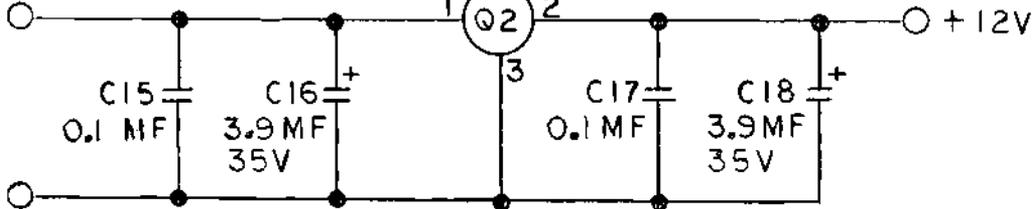
IA10  
IA9  
IA8  
IA7

IA15  
IA14  
IA13  
IA12  
IA11



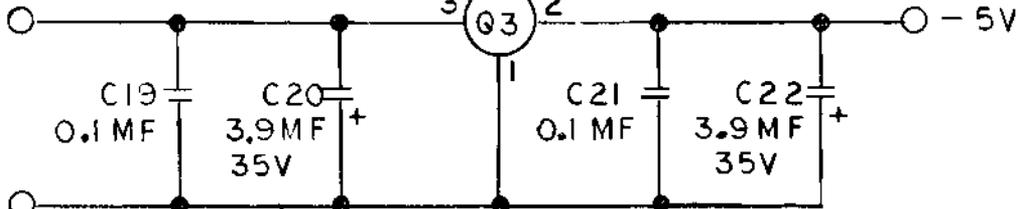
C

+16 UNREG (2)



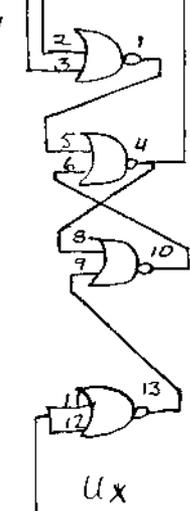
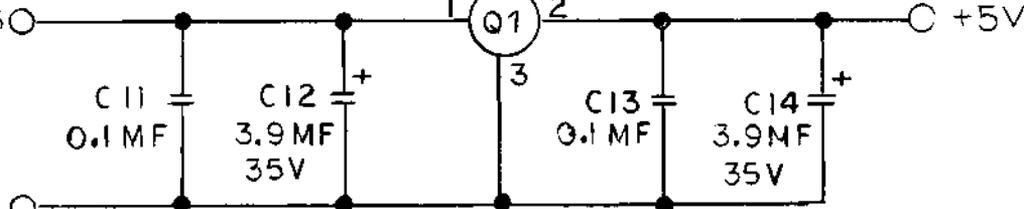
B

-16 UNREG (52)



A

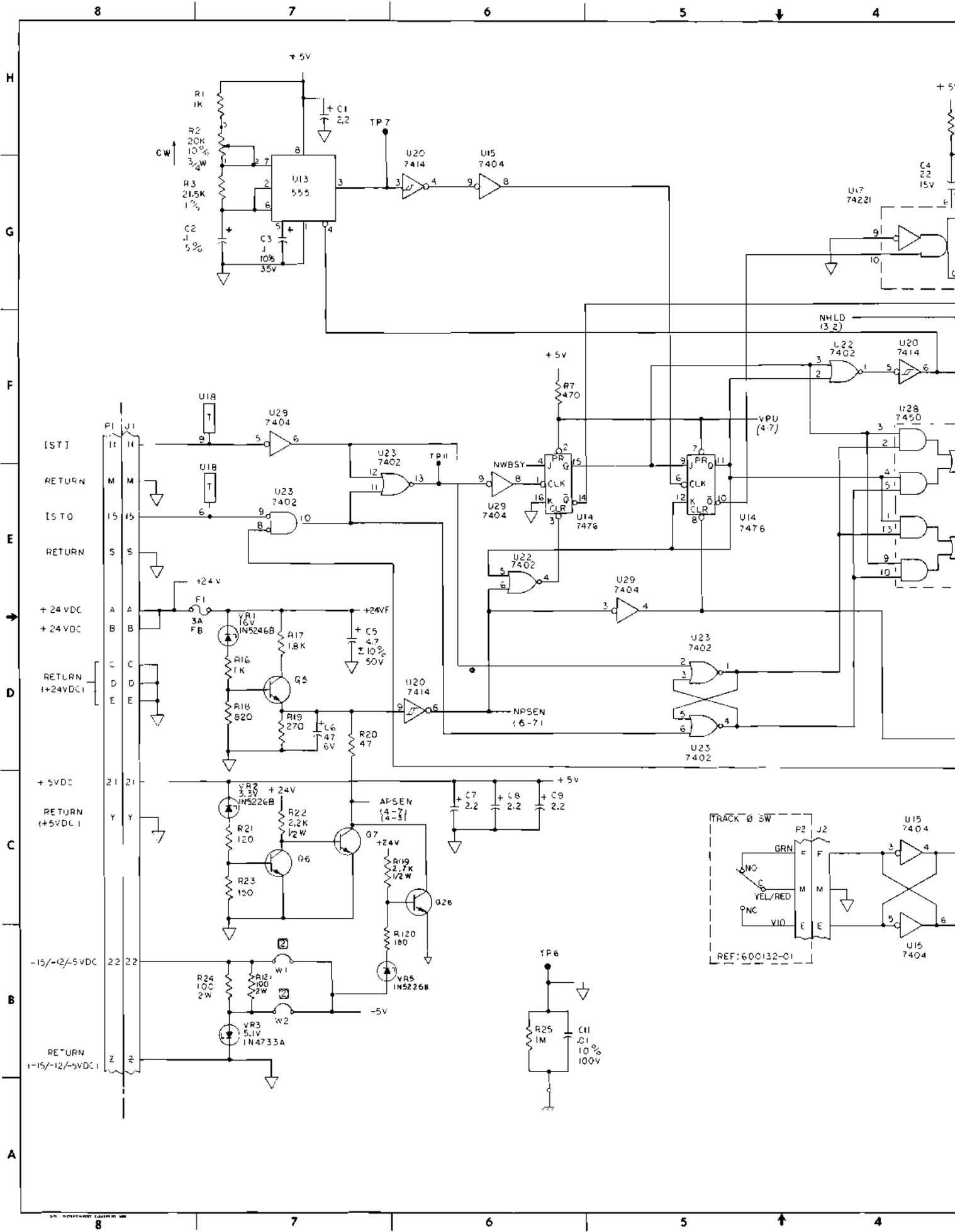
+8V UNREG (1,51)



NEXT ASSY	USED ON
APPLICATION	

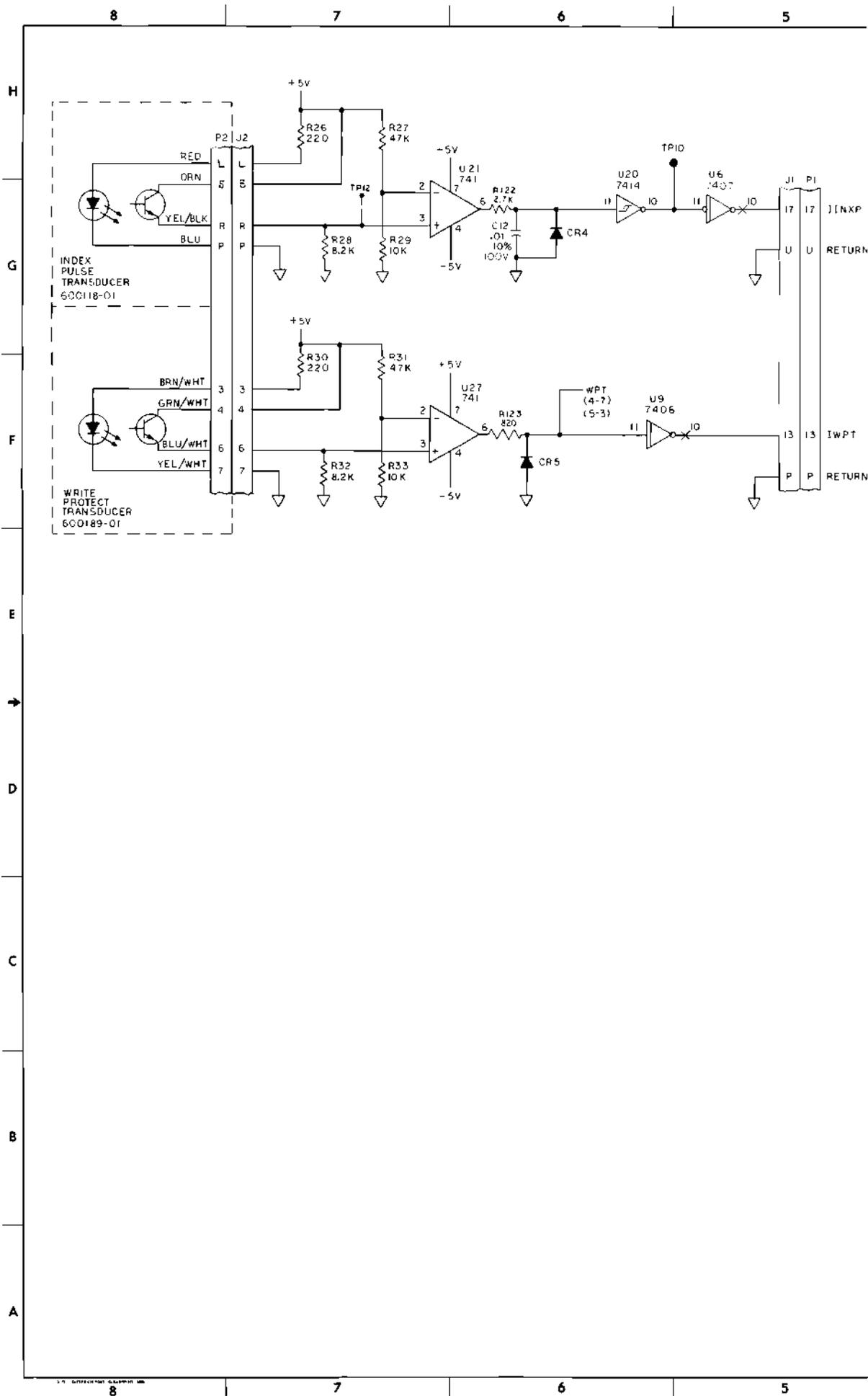


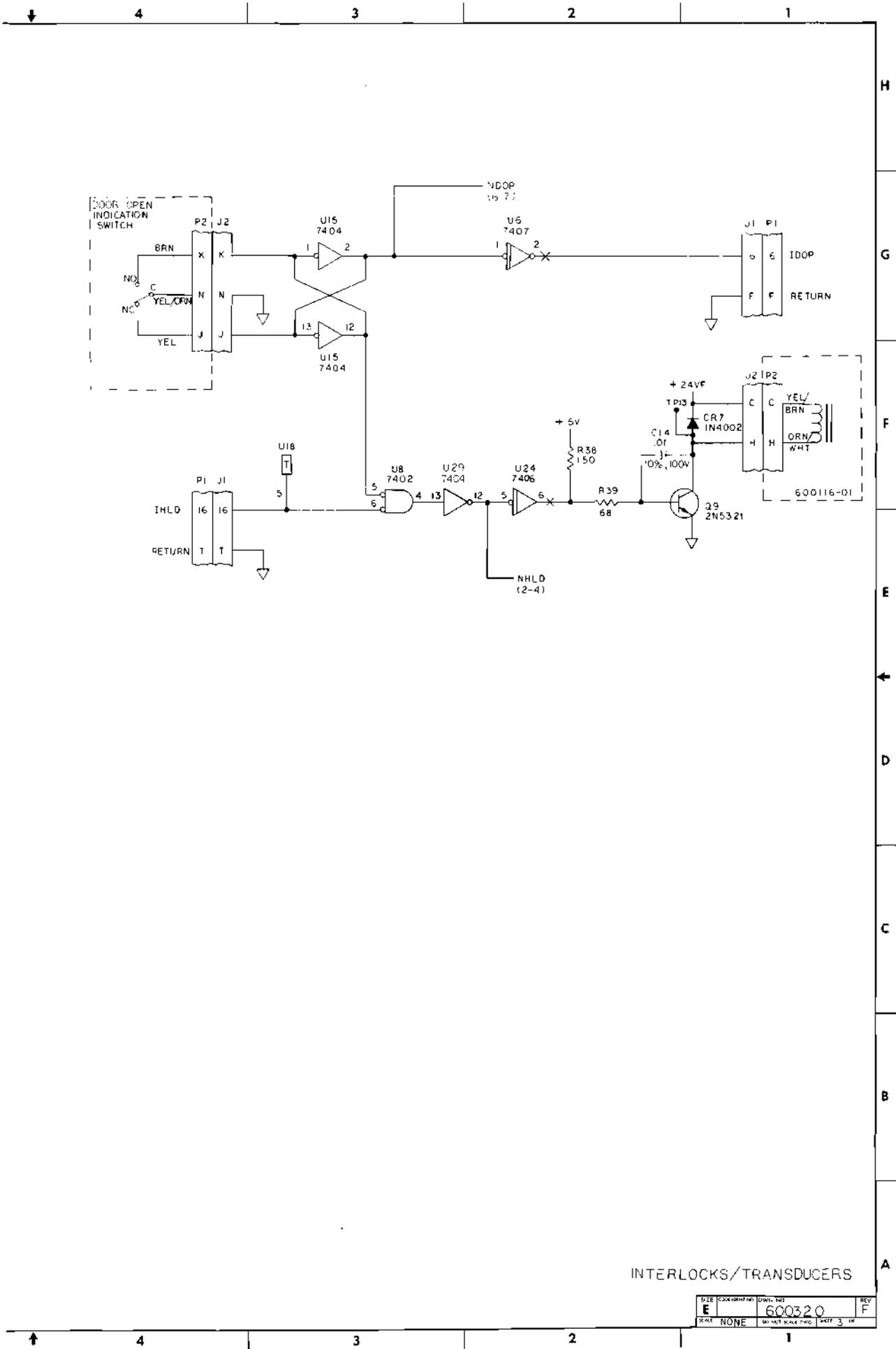










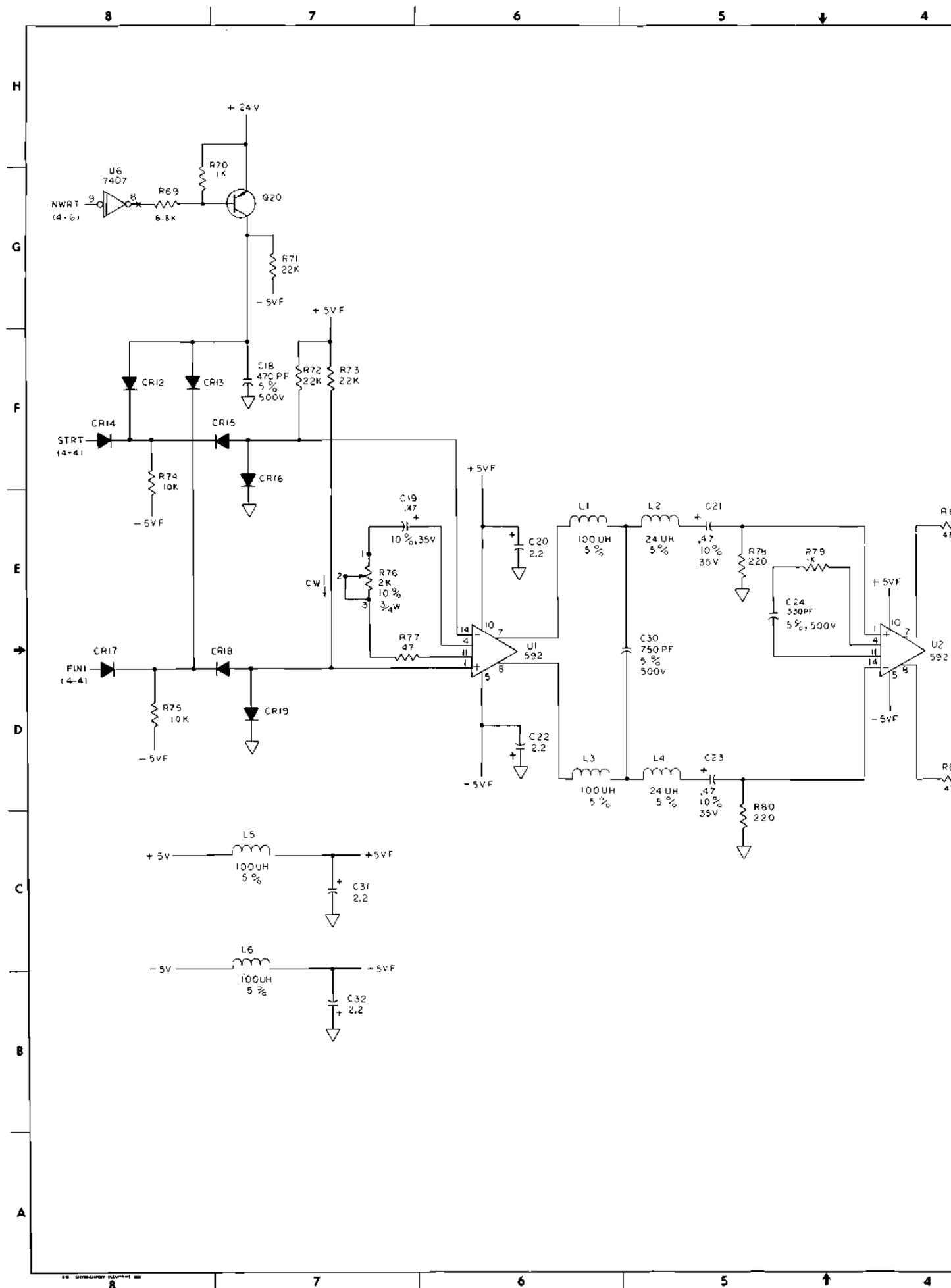


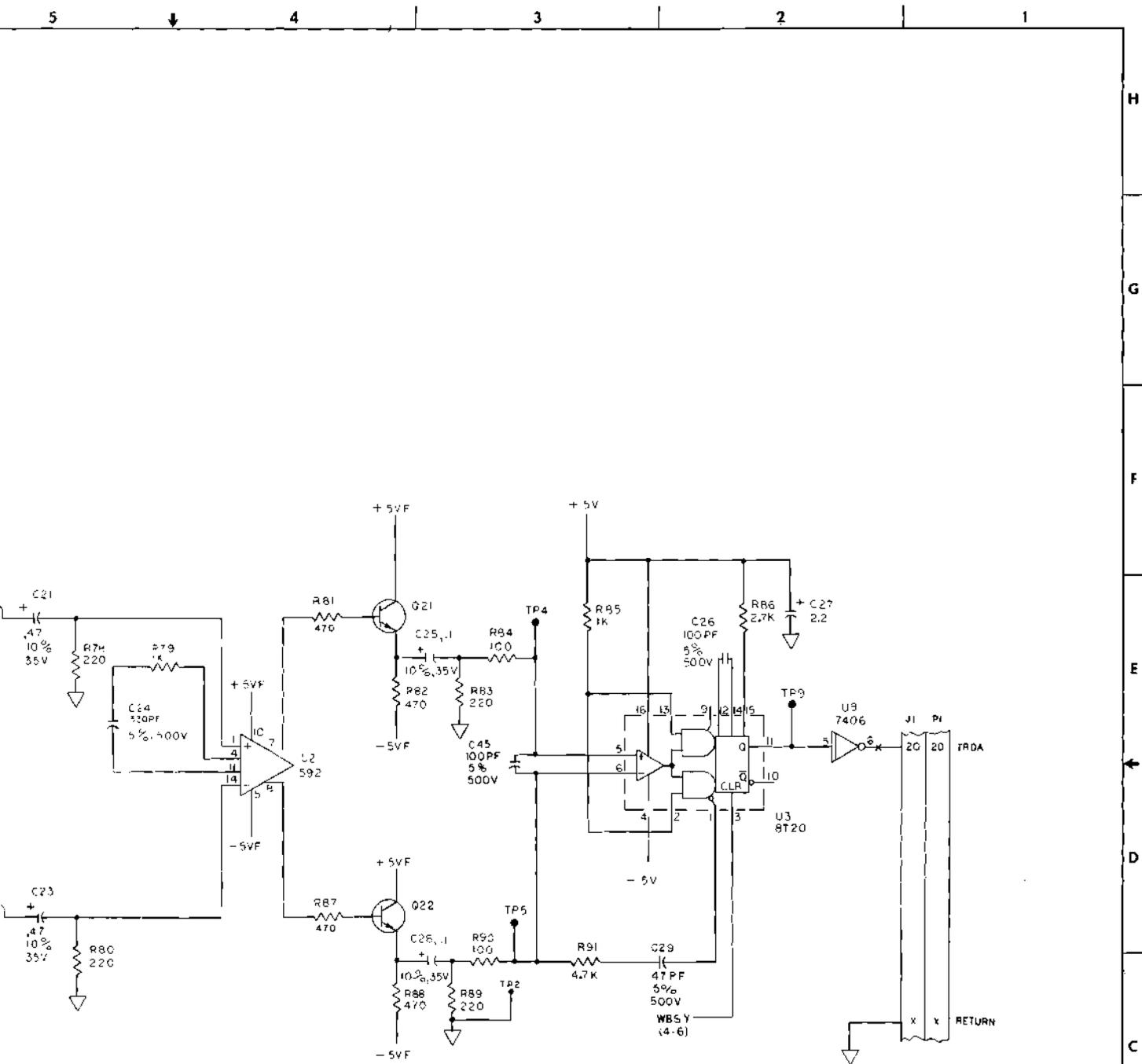
INTERLOCKS/TRANSDUCERS

SIZE	ECO/IDENT NO	DRWG. NO	REV
E		600320	F
SCALE	NONE	DO NOT SCALE THIS	SHEET 3 OF



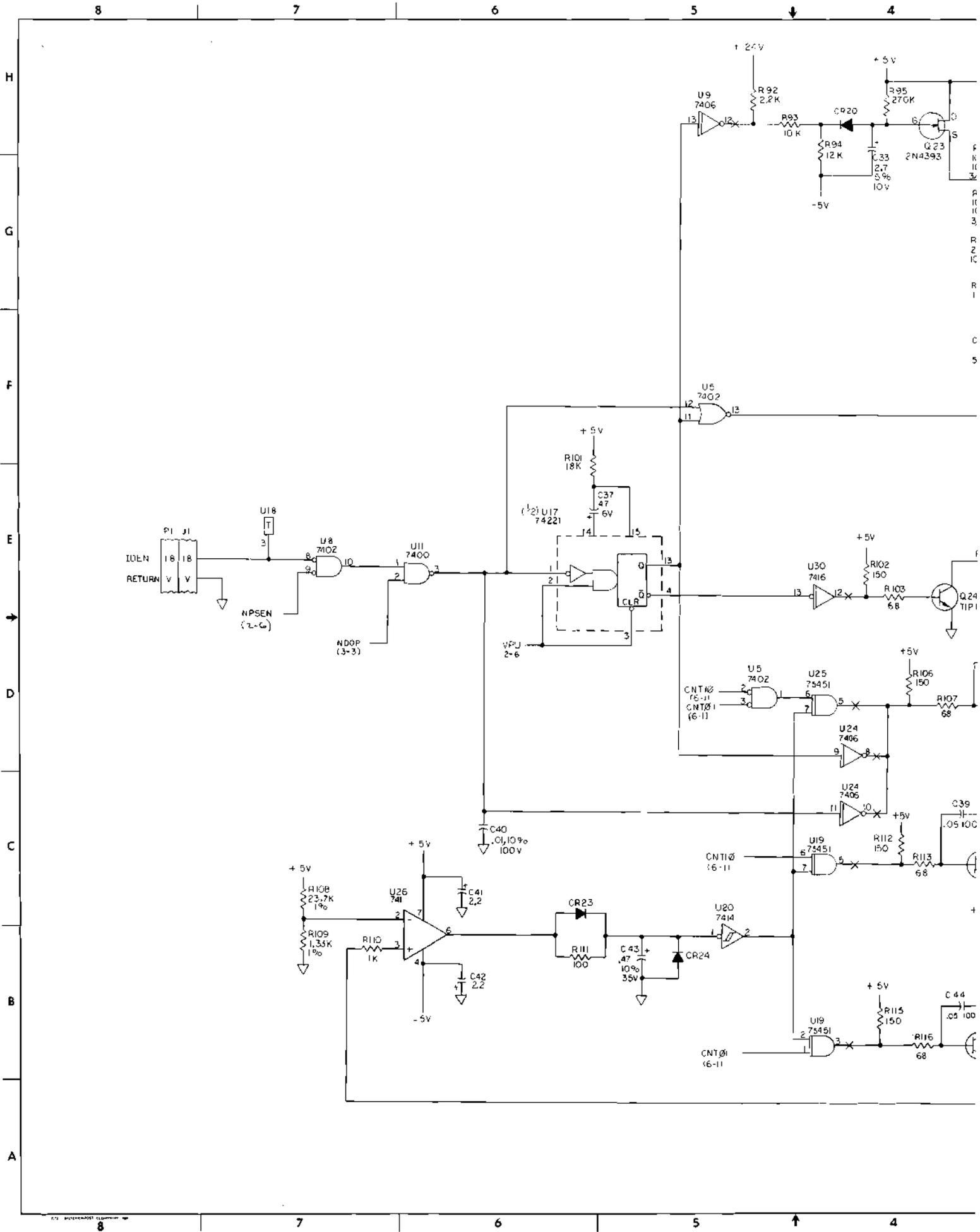


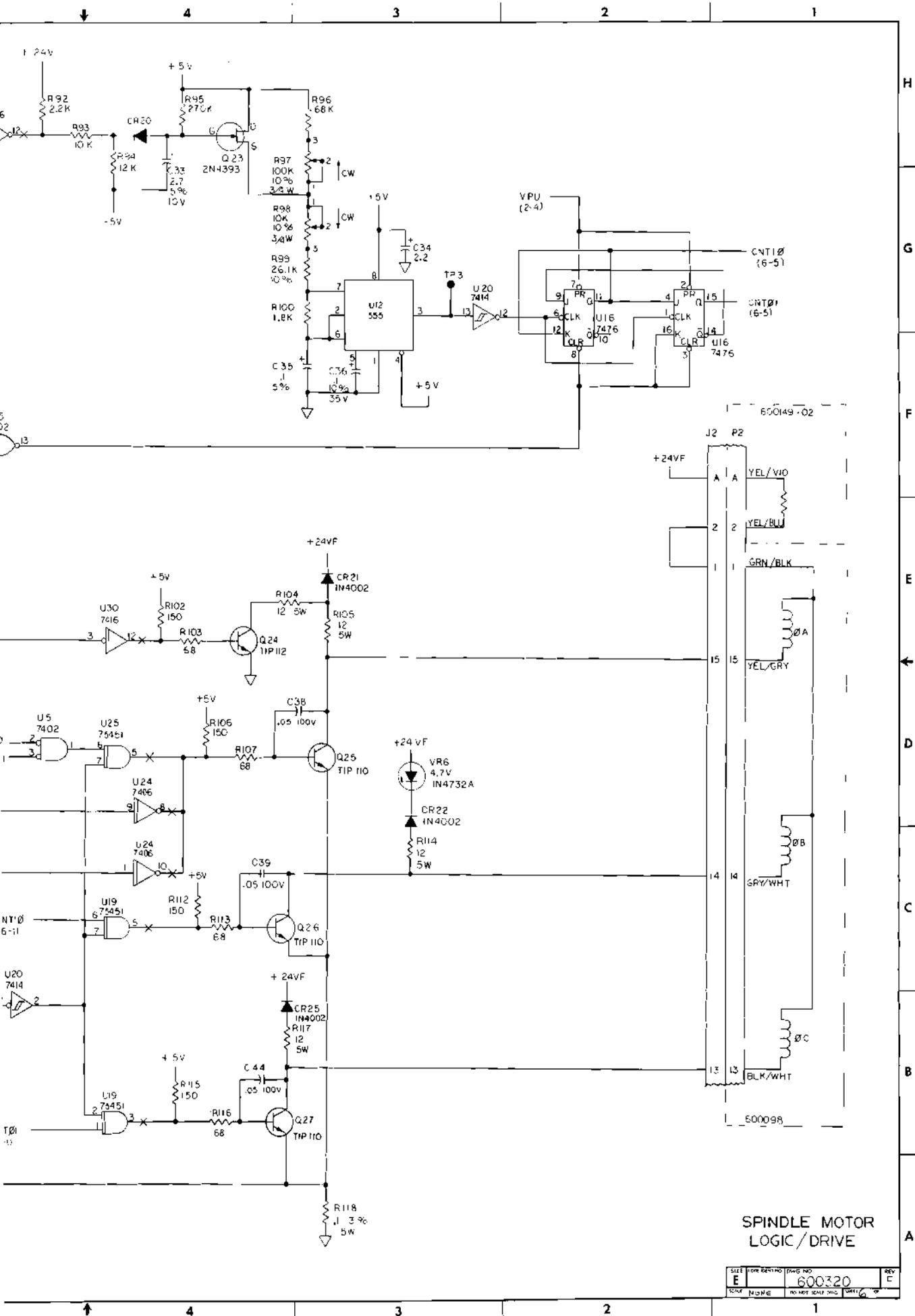




READ AMPLIFIER

SIZE	FORM NO.	DATE	NO.
E	600320		
SCALE	NO. OF SHEETS	TOTAL SHEETS	REV.
			F



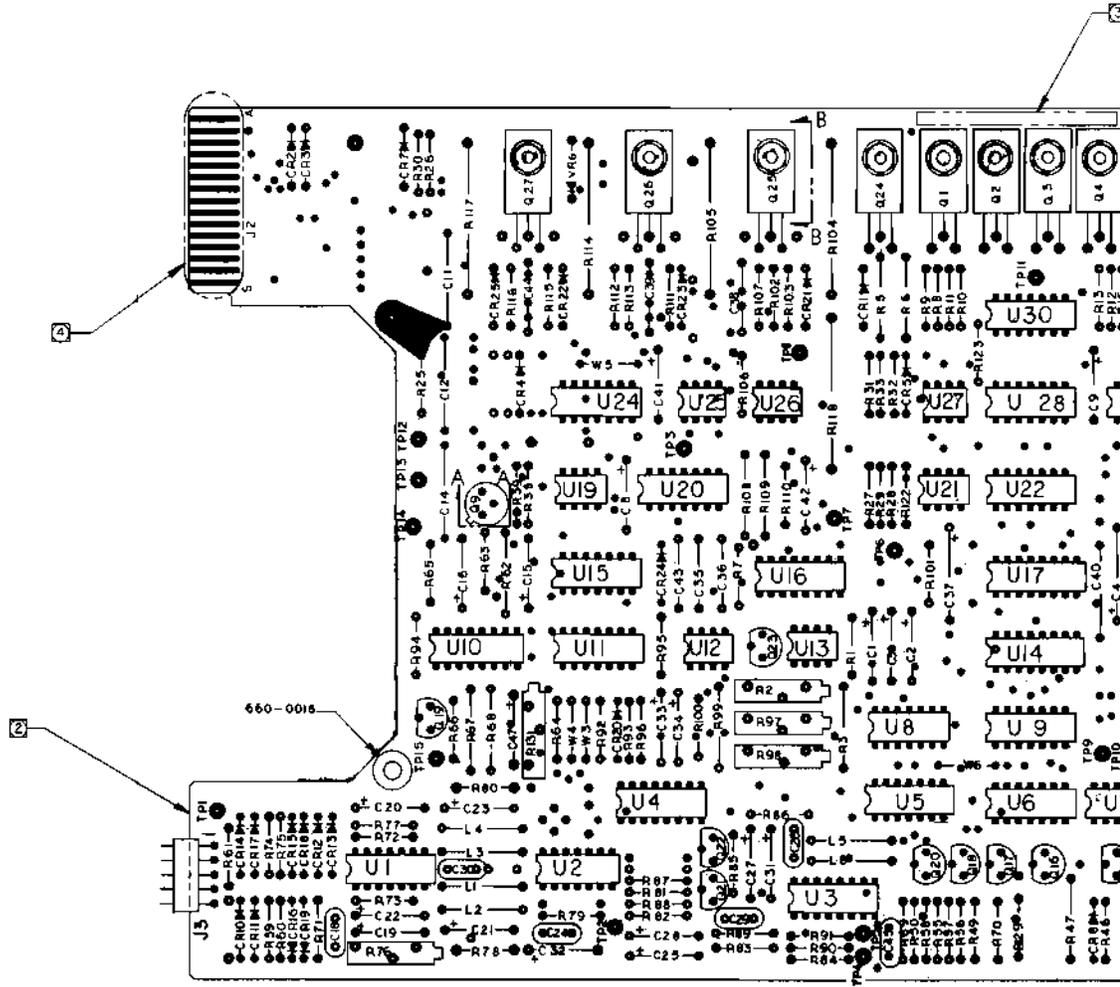


SPINDLE MOTOR  
LOGIC/DRIVE

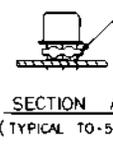
SIZE	FORM	REV	NO	DATE	BY
E			600320		
SCALE	NAME	NO	REV	DATE	BY



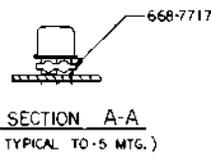
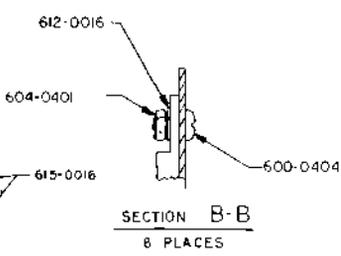
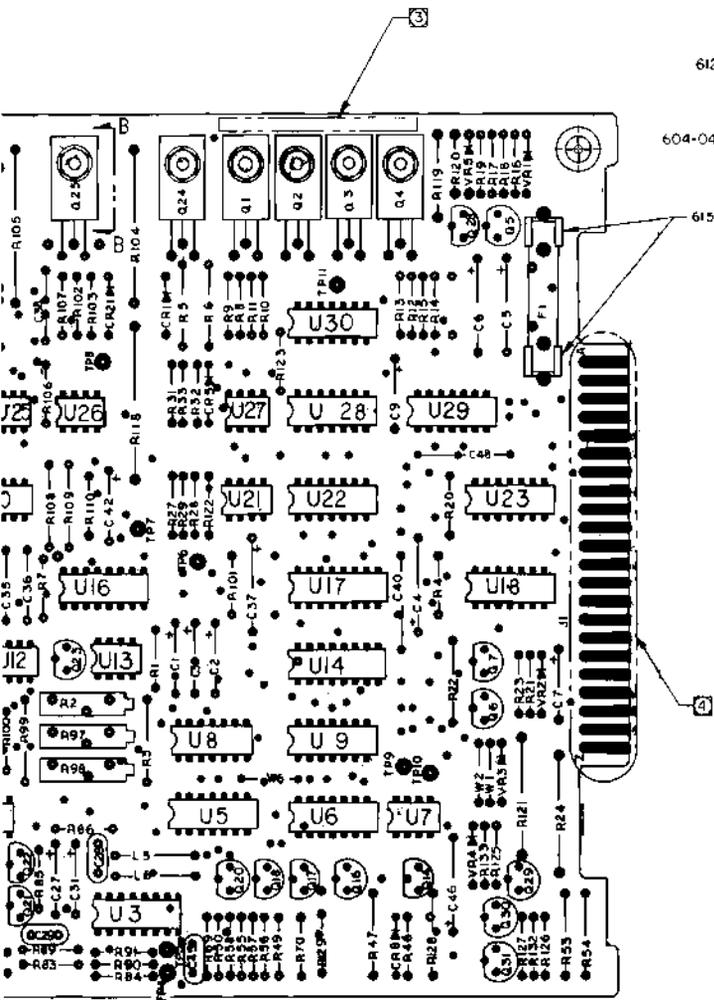
H  
G  
F  
E  
D  
C  
B  
A



- 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-Q1 REV D AND SUBSEQUENT.
  - ① ASSEMBLE PER STANDARD MANUFACTURING METHODS.
- NOTES: UNLESS OTHERWISE SPECIFIED



REVISIONS				
REV	DESCRIPTION	DATE	OR	CHK
A	ECN 200-FB PRE-PROD. RELEASE	1/23/74	LM	WJ
B	ECN 30357A	1/24/74	LM	WJ
C	ECN 200-GP PREP QAL	1/24/74	LM	WJ
D	ECN 30442A	1/24/74	LM	WJ
E	ECN 30427	1/23/74	LM	WJ



SCHMATIC 600320  
 REF DWGS:  
 PART NO. 600321- REV

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<small>UNLESS OTHERWISE SPECIFIED: TOLERANCES ARE IN INCHES: FRACTIONAL DECIMALS IN 100'S; ANGLES IN DEGREES; MIN. DIMS. IN 100'S; UNLESS OTHERWISE SPECIFIED APPROX. DIMS.</small>		TITLE: PERTEC PERIPHERAL EQUIPMENT TITLE: PCBA, FD, BASIC II, DC	
FINISH: _____ NEXT REV: _____ APPLICATION: _____	MATERIAL: SEE LM	SIZE: E SCALE: 2/1	DATE: 1/23/74 DWG. NO.: 600321 SHEET: 1 OF 1

H  
G  
F  
E  
D  
C  
B  
A

600321

A

D

8

7

6

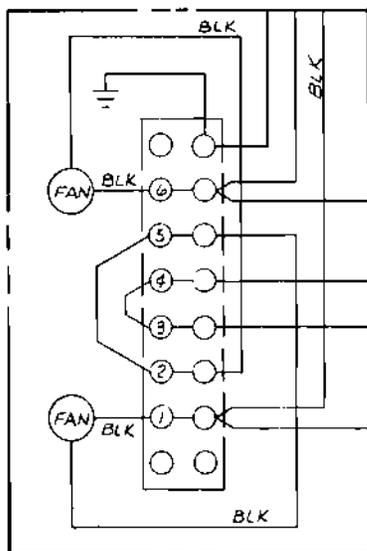
5

D

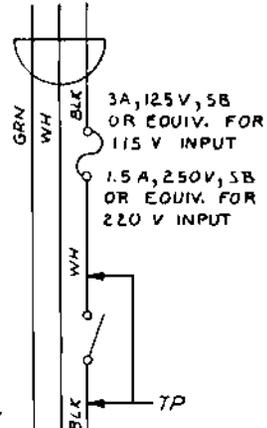
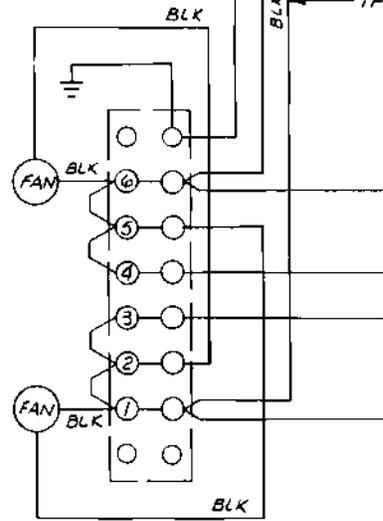
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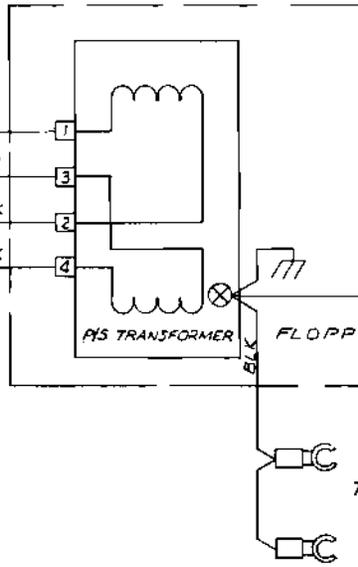
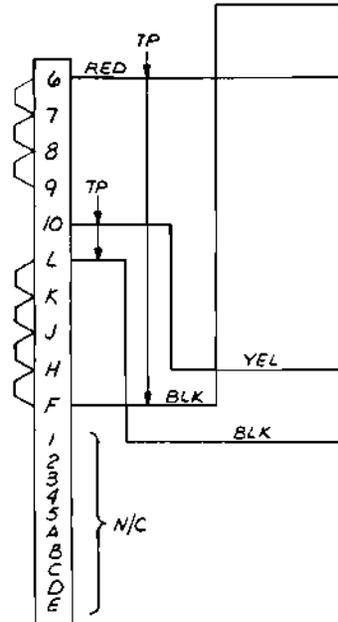
A



ALTERNATE TERMINAL BLOCK WIRING FOR 220V



1.5 A, 250V, 5B OR EQUIV. FOR 220 V INPUT



1. 'TP' INDICATES TWISTED PAIR WIRES.

NOTES: UNLESS OTHERWISE SPECIFIED.

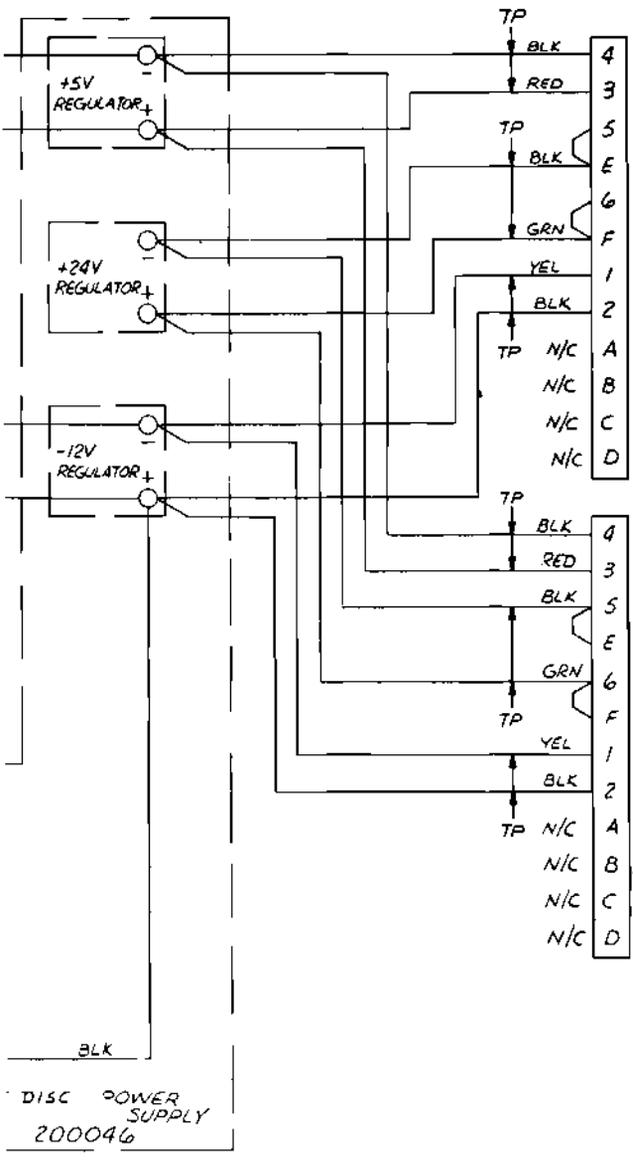
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



DISC POWER SUPPLY 200046

ON CHASSIS ON DRIVERS

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C  
B  
A  
200042-200

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 .XX ±	ANGLES ±	
	.XXX ±		
MATERIAL	APPROVALS		DATE
FINISH	DRAWN <i>Check</i>		2/2/76
NEXT ASSY	USED ON		CHECKED <i>P. D. Spu</i>
APPLICATION	DO NOT SCALE DRAWING		FD360 POWER SCHEMATIC
SIZE		CODE IDENT NO.	DRAWING NO.
D			200042-200
SCALE NONE		SHEET / OF /	

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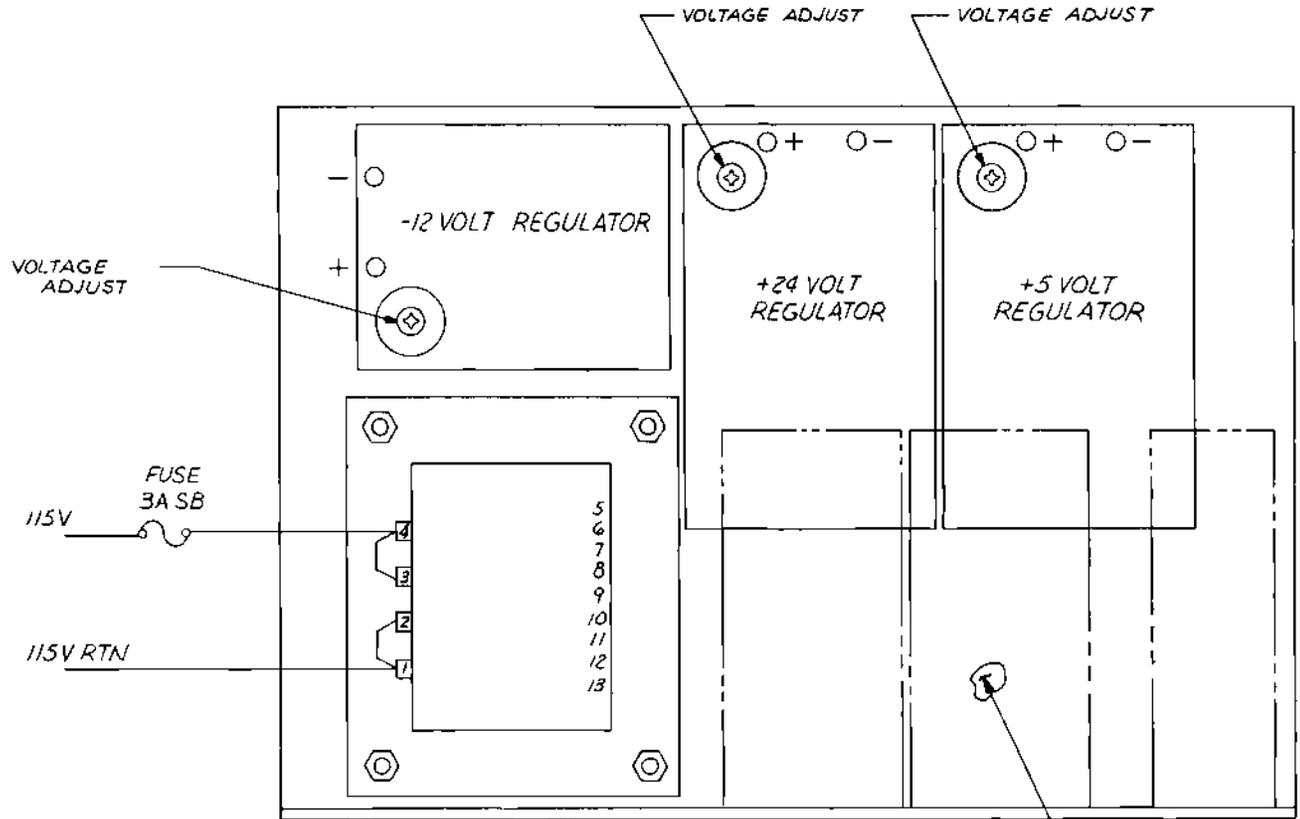
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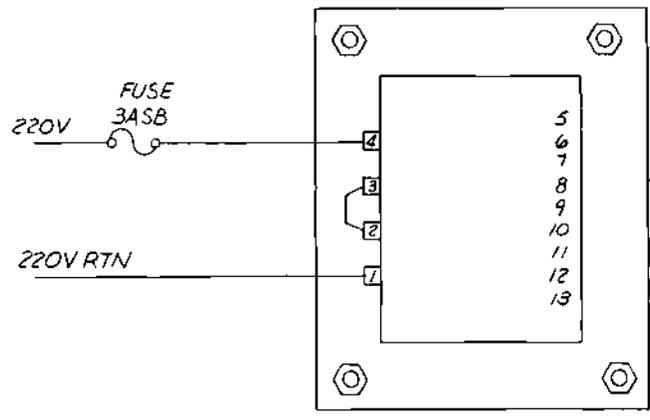
B

A



115V TRANSFORMER WIRING SHOWN

CAPACITORS & CLAMP (NEAR SIDE)



220V TRANSFORMER WIRING SHOWN

1. FOR WIRING DIAGRAM SEE I/O NOTES: UNLESS OTHERWISE SPEC

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

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200046

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	 <b>ASSEMBLY-FRUGAL FLOPPY POWER SUPPLY (ADTECH S171)</b>	
±	.XX ± .XXX ±	±		
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN <i>Cook</i>	5/20/76	
NEXT ASSY		CHECKED <i>P.P. Sen</i>	8/17/76	
USED ON		SIZE	CODE IDENT NO.	DRAWING NO.
APPLICATION		D		200046
DO NOT SCALE DRAWING		SCALE FULL		SHEET OF

DM DWG NO. 200042-200. FIED

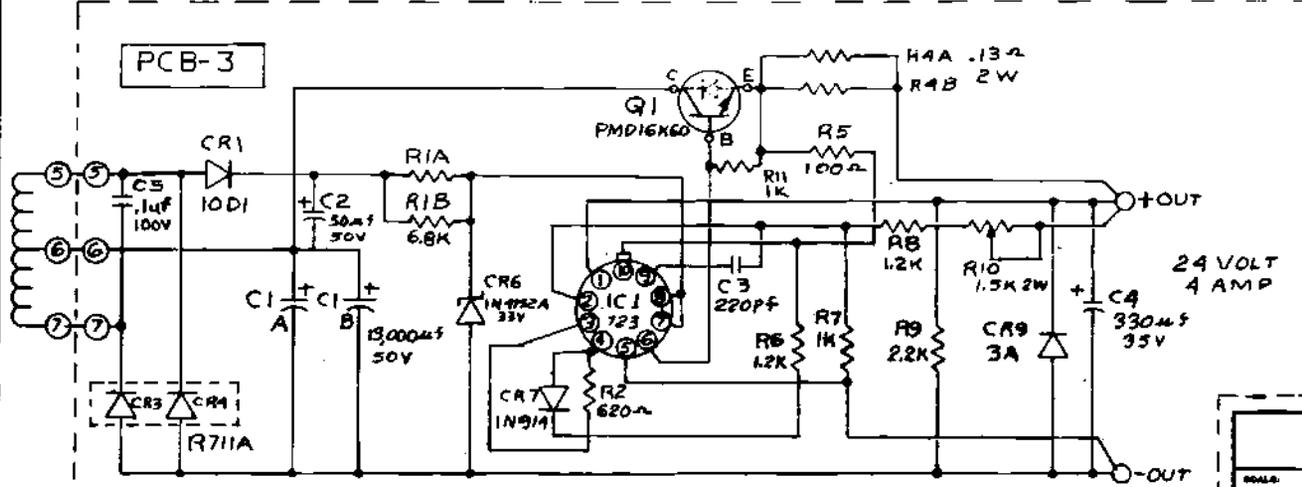
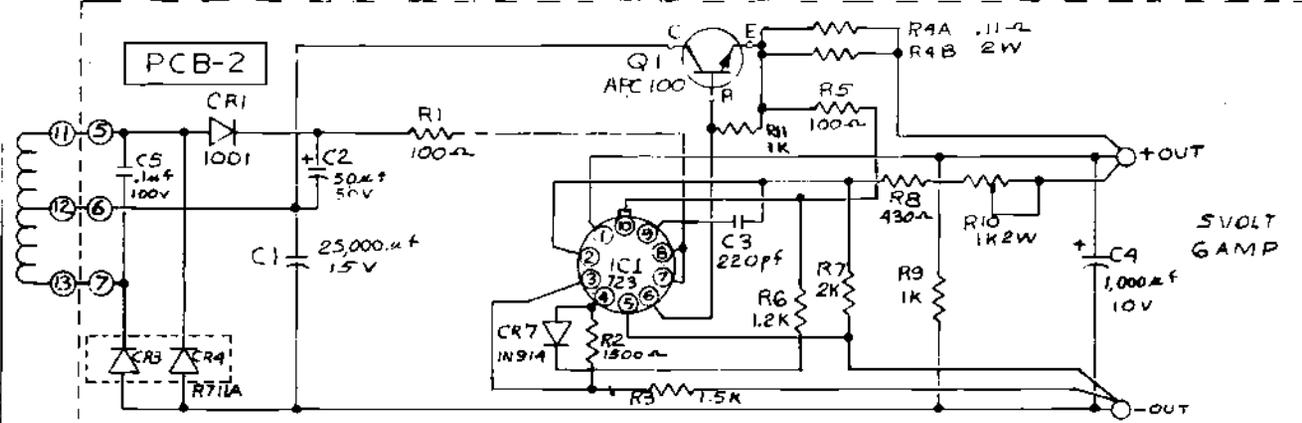
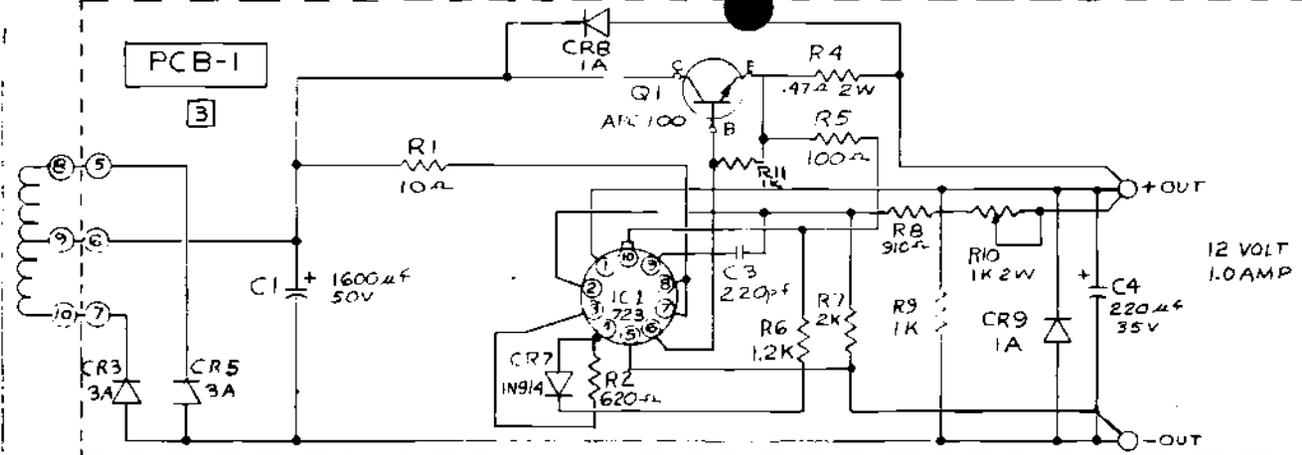
4

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1

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



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 1/8 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.

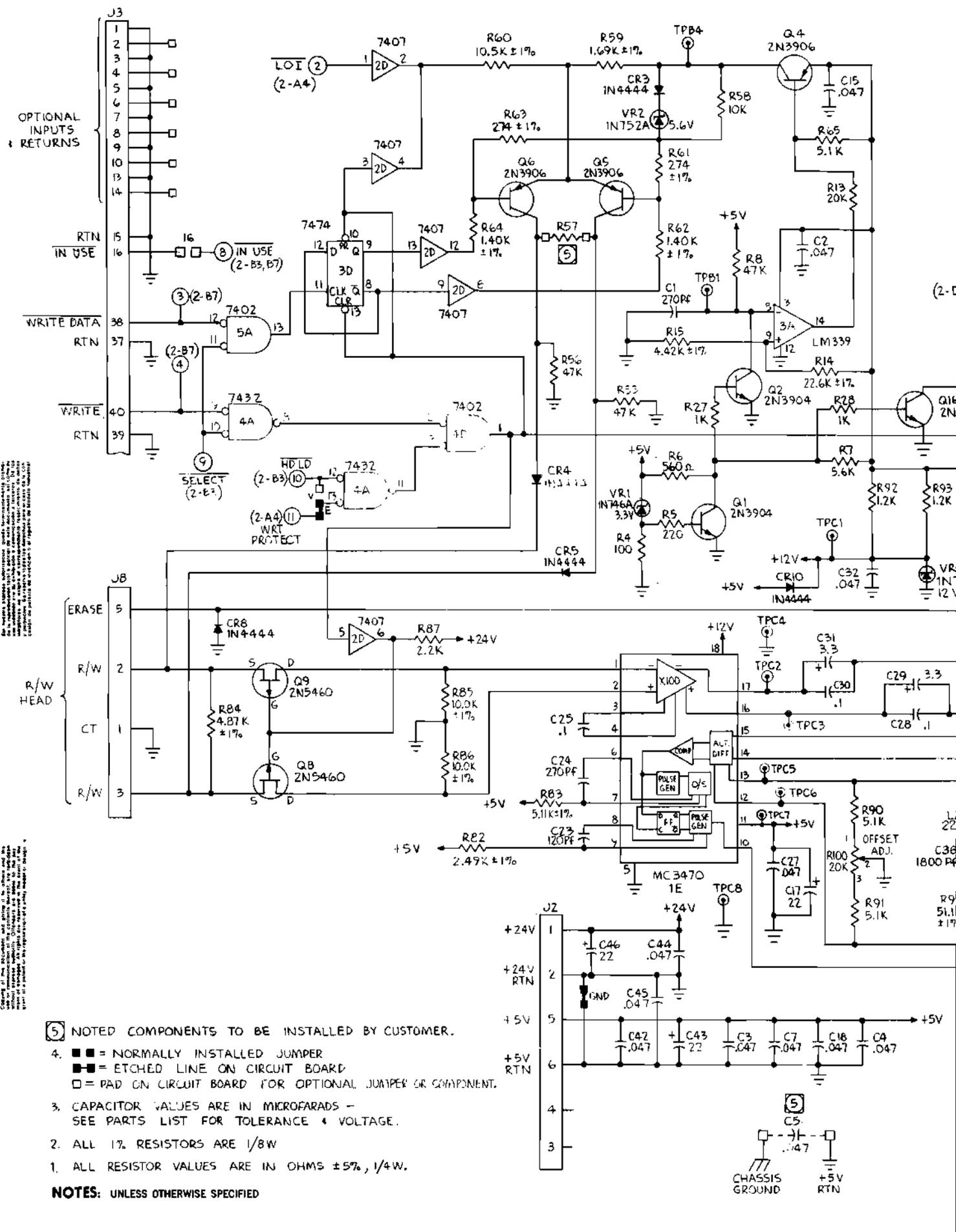
SCALE: N/A	APPROVED BY: [Signature]	REVISED BY: [Signature]	DESIGNED BY: [Signature]
DATE: 7-10-75			
SCHEMATIC, POWER SUPPLY			
OVER SHEET: S171	WORKING NO.: AP30-047	REV. NO.: D	DATE: 7-2-75

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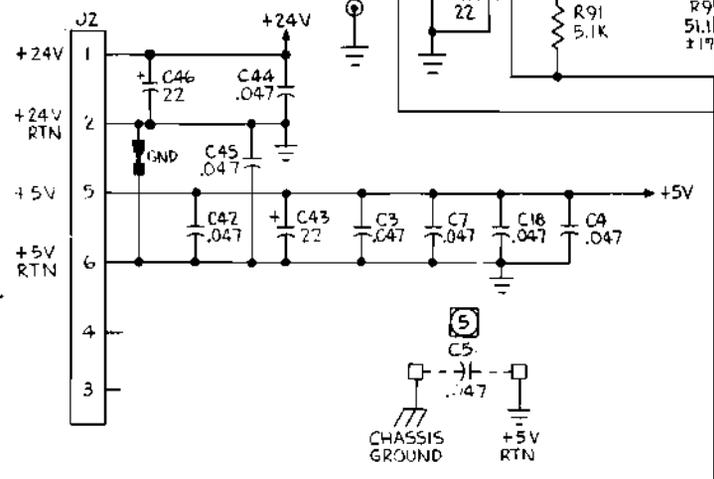


5 NOTED COMPONENTS TO BE INSTALLED BY CUSTOMER.

- 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.

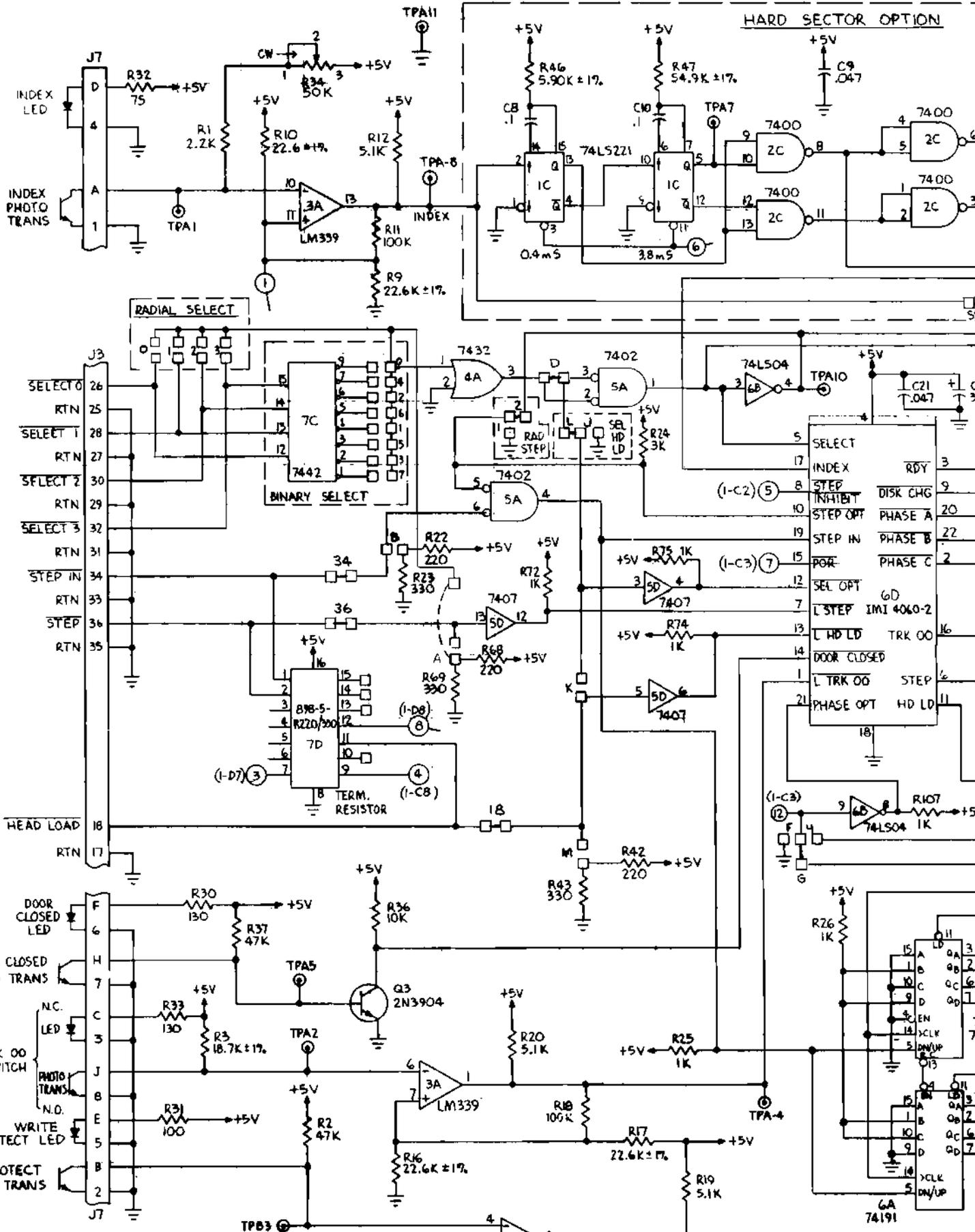
NOTES: UNLESS OTHERWISE SPECIFIED

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

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