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FIELD MAINTENANCE PRINT SET

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MB20 PRINT SET

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CORE MEMORY (MB20) (P.L.)

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32K SENSE/INHIBIT (G116)

32K SENSE/INHIBIT (G116)

UNIT VARIATIONS COVERED BY THIS PRINT SET

MB20-GA

MB20-GB

MB20-GC

MB20-GD

MB20-E

MB20

Field Maintenance

Print Set

Digital Equipment

Corporation

PRINT SET ORDER NO.

MP00179

REVISIONS

DATE

CHG. NO.

REV.

USED ON OPTION/MODEL

MB20

DRN.

CHK'D

PROJ. ENG.

FIELD SERV.

SHEET I OF 2

DATE

10 AUG 76

18 AUG 76

24 AUG 76

21 AUG 76

TITLE:

CORE MEMORY (MB20)

SIZE

B

CODE

TC

NUMBER

MB20-0-1

REV.

DIST.

digital

DRB 124

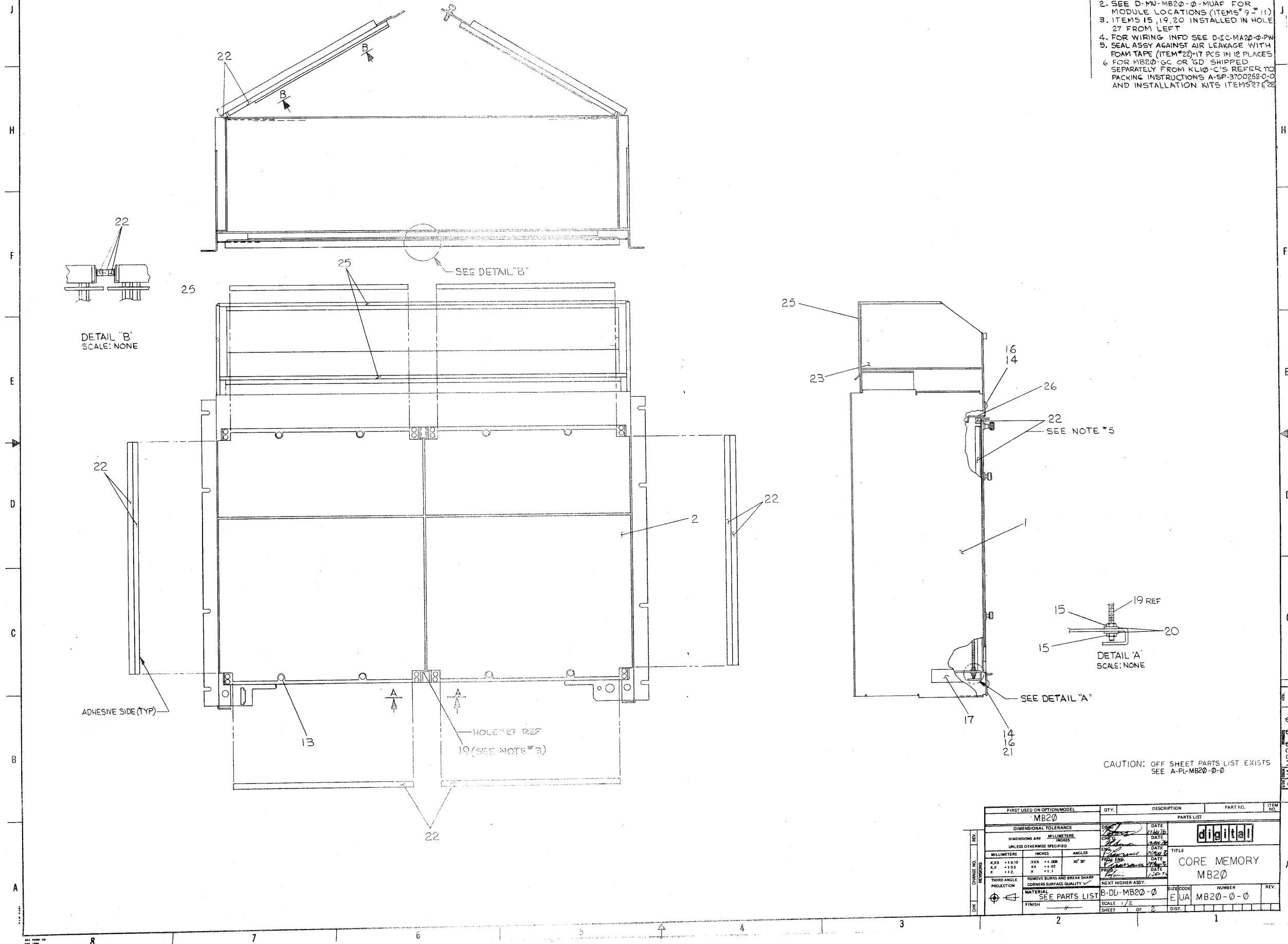
D-BS-MB20-0-SINU	32K SENSE/INHIBIT (G116)
D-BS-MB20-0-SINV	32K SENSE/INHIBIT (G116)
D-BS-MB20-0-SINW	32K SENSE/INHIBIT (G116)
D-BS-MB20-0-SINX	32K SENSE/INHIBIT (G116)
D-BS-MB20-0-SINY	32K SENSE/INHIBIT (G116)
D-BS-MB20-0-STKA	32K STACK MODULE (H224B)
D-BS-MB20-0-STKB	32K STACK MODULE (H224B)
D-BS-MB20-0-STKC	32K STACK MODULE (H224B)
D-BS-MB20-0-STKD	32K STACK MODULE (H224B)
D-BS-MB20-0-STKE	32K STACK MODULE (H224B)
D-BS-MB20-0-STKF	32K STACK MODULE (H224B)
D-BS-MB20-0-STKH	32K STACK MODULE (H224B)
D-CS-M9005-0-TRN1	CIRCUIT SCHEMATIC M9005
D-CS-G116-0-1	32K SENSE/INHIBIT (SHEET 1)
D-CS-G236-0-1	32K X-Y DRIVE (SHEET 1)
D-CS-H224-0-1	STACK BOARD (SHEET 1)
D-UA-G116-0-0	32K SENSE/INHIBIT
D-UA-G236-0-0	32K X-Y DRIVE
D-UA-H224-0-0	CORE MEMORY STACK ASSY
D-UA-M9005-0-0	TERMINATOR
D-UA-M9006-0-0	SBUS CABLE MODULE
D-UA-M8568-0-0	CONTROL BOARD (M8568)
D-UA-M8565-0-0	TIMING BOARD (M8565)
D-IC-MA20-0-PW	AC-DC POWER WIRING
E-AD-7012773-0-0	WIRED ASSY (MB20)
K-WL-MB20-0-WL	WIRE LIST (MB20)
A-WT-7012773-0	AWT REVISION STATUS

TITLE	SHEET	SIZE	CODE	NUMBER	REV
CORE MEMORY (MB20)	2 OF 2	B	TC	MB20-0-1	

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NOTES:

1. ITEMS 4, 5, 7, 8, AND ITEM 24 NOT SHOWN ASSEMBLED AS PART OF D-UA-KL10-0-0 OR D-UA-KL10-C-0
2. SEE D-MU-MB20-0-MUAF FOR MODULE LOCATIONS (ITEMS 9, 11)
3. ITEMS 15, 19, 20 INSTALLED IN HOLE 27 FROM LEFT
4. FOR WIRING INFO SEE D-IC-MA20-0-PW
5. SEAL ASSY AGAINST AIR LEAKAGE WITH FOAM TAPE (ITEM 22)-17 PCS IN 12 PLACES
6. FOR MB20-GC OR 'GD' SHIPPED SEPARATELY FROM KL10-C'S REFER TO PACKING INSTRUCTIONS A-SP-3700258-0-0 AND INSTALLATION KITS ITEMS 27, 28

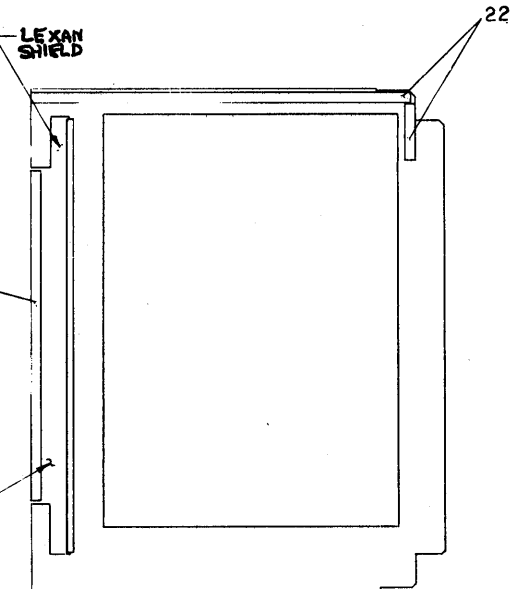


CAUTION: OFF SHEET PARTS LIST EXISTS
SEE A-PL-MB20-0-0

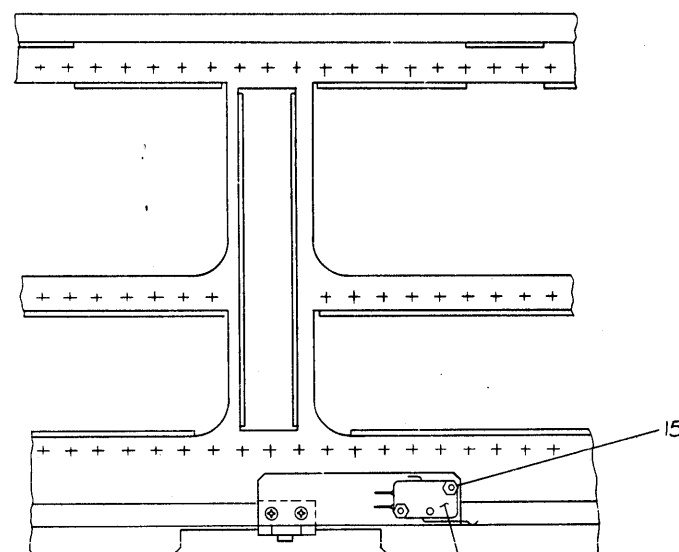
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
MB20					
DIMENSIONAL TOLERANCE		DATE	PARTS LIST		
DIMENSIONS ARE		DATE	digital		
UNLESS OTHERWISE SPECIFIED		DATE	TITLE		
MILLIMETERS		DATE	CORE MEMORY		
INCHES		DATE	MB20		
ANGLES		DATE	SIZE CODE		
XXX ± 0.10		DATE	NUMBER		
XX ± 0.05		DATE	REV.		
X ± 0.02		DATE	B-DU-MB20-0		
X ± 0.01		DATE	EUA MB20-0-0		
X ± 0.005		DATE	SCALE 1/2		
THIRD ANGLE		DATE	SHEET 1 OF 2		
PROJECTION		DATE	DIST.		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE			
MATERIAL		DATE			
SEE PARTS LIST		DATE			
FINISH		DATE			

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FOR LEFT HAND
 DOOR REMOVE LEXAN
 SHIELD & REPLACE WITH
 ITEM # 29



VIEW B-B
 SCALE: 1/2
 RIGHT HAND DOOR SHOWN



VIEW A-A
 SCALE: 1/1

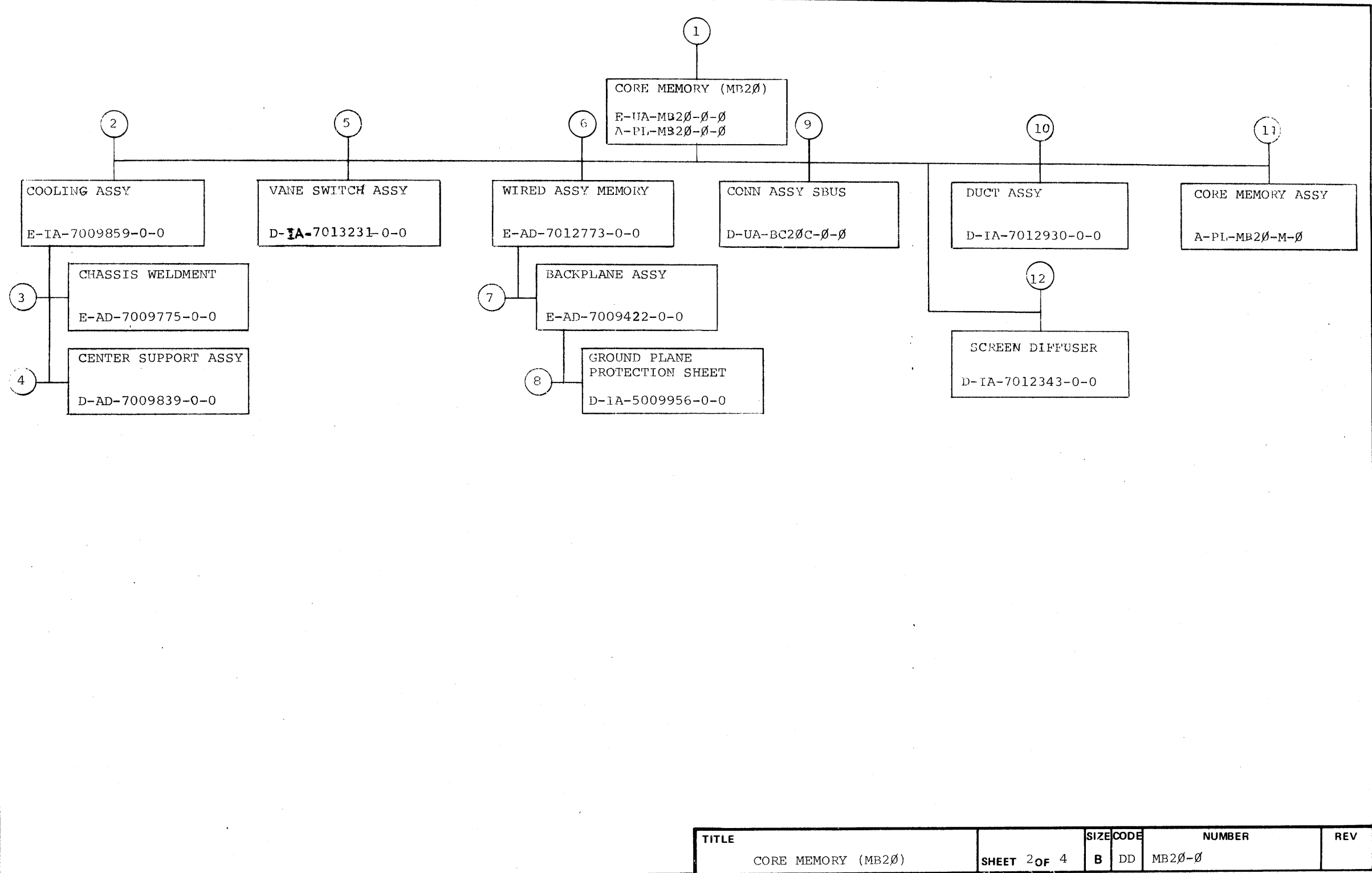
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	NUMBER	REV.
CORE MEMORY (MB20)		EUA	MB20-0-0	
SCALE 1/2	SHEET 2 OF 2	DIST		

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[illegible]

REVISIONS CHK CHANGE NO. REV.			USED ON OPTION/MODEL		DRN	DATE	TITLE	
			MB20		CHK'D.	DATE	CORE MEMORY (MB20)	
					PROJ. ENG.	DATE	SIZE	CODE
					PROD.	DATE	B	DD
							NUMBER	
							MB20-0	
			SHEET 1 OF 4				DIST.	REV



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00179	FIELD MAINT. PRINT SET (MP)	-		D-BS-MB20-0-STKH	32K STACK MODULE (H224B)	E
	B-TC-MB20-0-1	FIELD MAINT. PRINT SET (TC)	-		D-CS-M9005-0-TRN1	CIRCUIT SCHEMATIC (M9005)	E
	E-UA-MB20-0-0	CORE MEMORY MB20	E/M		D-UA-M9005-0-0	TERMINATOR	E/M
	A-PL-MB20-0-0	CORE MEMORY (P.L.)	E/M		D-IC-MA20-0-PW	AC-DC POWER WIRING	E
	D-MU-MB20-0-MUAF	MODULE UTILIZATION	E		A-SP-MB20-0-TP	CHECKOUT PROCEDURE (MB20)	E
	D-UA-M9005-0-0	TERMINATOR	E/M		A-SP-MB20-0-TS	TEST SPECIFICATION (MB20)	E
	B-DD-M9005-0	DRAWING DIRECTORY	-		A-PL-7013249-0-0	MA20/MB20 INSTALLATION KIT	M
	B-MD-7413992-0-0	ROD SUPPORT	M		A-SP-3700258-0-0	PACKING INSTRUCTIONS	M
	D-FD-MN20-0-FD	FLOW DIAGRAM	E		C-IA-7417518-0-0	COVER CABLE	M
	D-BS-MB20-0-INS	INSTRUCTION/SET-UP SHEET	E				
	D-TD-MB20-0-TD	TIMING DIAGRAM	E				
	D-BS-MB20-0-IBD	INTERCONNECTION BLOCK DIAGRAM	E				
	D-BS-MB20-0-DRVA	32K X-Y DRIVE (G236)	E				
	D-BS-MB20-0-DRVB	32K X-Y DRIVE (G236)	E	2	E-IA-7009859-0-0	COOLING ASSY	M
	D-BS-MB20-0-DRVC	32K X-Y DRIVE (G236)	E		D-IA-7411599-0-0	DOOR, RIGHT	M
	D-BS-MB20-0-DRVD	32K X-Y DRIVE (G236)	E		D-IA-7411600-0-0	DOOR, LEFT	M
	D-BS-MB20-0-MAC1	CONTROL BOARD (M8568)	E		B-IA-7411807-0-0	BRACKET, MICROSWITCH	M
	D-BS-MB20-0-MAC2	CONTROL BOARD (M8568)	E		B-MD-7411498-0-0	PLATE COVER	M
	D-BS-MB20-0-MAC3	CONTROL BOARD (M8568)	E		C-MD-7412366-0-0	COVER CABLE	M
	D-BS-MB20-0-MAC4	CONTROL BOARD (M8568)	E				
	D-BS-MB20-0-MAC5	CONTROL BOARD (M8568)	E				
	D-BS-MB20-0-MAC6	CONTROL BOARD (M8568)	E				
	D-BS-MB20-0-MAC7	CONTROL BOARD (M8568)	E				
	D-BS-MB20-0-MAT1	TIMING BOARD (M8565)	E				
	D-BS-MB20-0-MAT2	TIMING BOARD (M8565)	E				
	D-BS-MB20-0-MAT3	TIMING BOARD (M8565)	E				
	D-BS-MB20-0-SINA	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINB	32K SENSE/INHIBIT (G116)	E	3	E-AD-7009775-0-0	CHASSIS WELDMENT	M
	D-BS-MB20-0-SINC	32K SENSE/INHIBIT (G116)	E		E-IA-7411722-0-0	CARD GUIDE CHASSIS	M
	D-BS-MB20-0-SIND	32K SENSE/INHIBIT (G116)	E		E-IA-7411721-0-0	CHASSIS SUPPORT	M
	D-BS-MB20-0-SINE	32K SENSE/INHIBIT (G116)	E		B-MD-7411830-0-0	STIFFENER, CHASSIS	M
	D-BS-MB20-0-SINF	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINH	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINJ	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINK	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINL	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINM	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINN	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINP	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINR	32K SENSE/INHIBIT (G116)	E	4	D-IA-7009839-0-0	CENTER SUPPORT ASSY	M
	D-BS-MB20-0-SINS	32K SENSE/INHIBIT (G116)	E		D-IA-7411806-0-0	SUPPORT CENTER	M
	D-BS-MB20-0-SINT	32K SENSE/INHIBIT (G116)	E		B-MD-7411805-0-0	HINGE CENTER SUPPORT	M
	D-BS-MB20-0-SINU	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINV	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINW	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINX	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-SINY	32K SENSE/INHIBIT (G116)	E				
	D-BS-MB20-0-STKA	32K STACK MODULE (H224B)	E				
	D-BS-MB20-0-STKB	32K STACK MODULE (H224B)	E				
	D-BS-MB20-0-STKC	32K STACK MODULE (H224B)	E				
	D-BS-MB20-0-STKD	32K STACK MODULE (H224B)	E				
	D-BS-MB20-0-STKE	32K STACK MODULE (H224B)	E	5	D-IA-7013231-0-0	VANE SWITCH ASSY	E/M
	D-BS-MB20-0-STKF	32K STACK MODULE (H224B)	E		D-MD-7411372-0-0	BRACKET, VANE SWITCH	M
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL				TITLE CORE MEMORY (MB20)			
				SHEET 3 OF 4		SIZE B CODE DD	NUMBER MB20-0
				REV			

DRB 108A

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NOTES:

- 1 BC20C CABLES AND M9005 TERMINATORS SUPPLIED FOR BASIC SYSTEM USAGE. FOR EXPANSION USAGE SEE D-UA-KLI0-C-0
- 2 MB20-G HAS BANKS 1,2 & 3 REMOVED IN CONTROL 0 & 1
FOR OTHER MEMORY SIZES MB20-E CORE EXPANSION UNITS ARE INSTALLED AS SHOWN. (1-MB20-E EQUALS 1 BANK)
- 3 DRAWING SHOWS THE CONFIGURATION FOR THE FIRST AND OR SECOND MB20 MOUNTED IN A KLI0-C

D

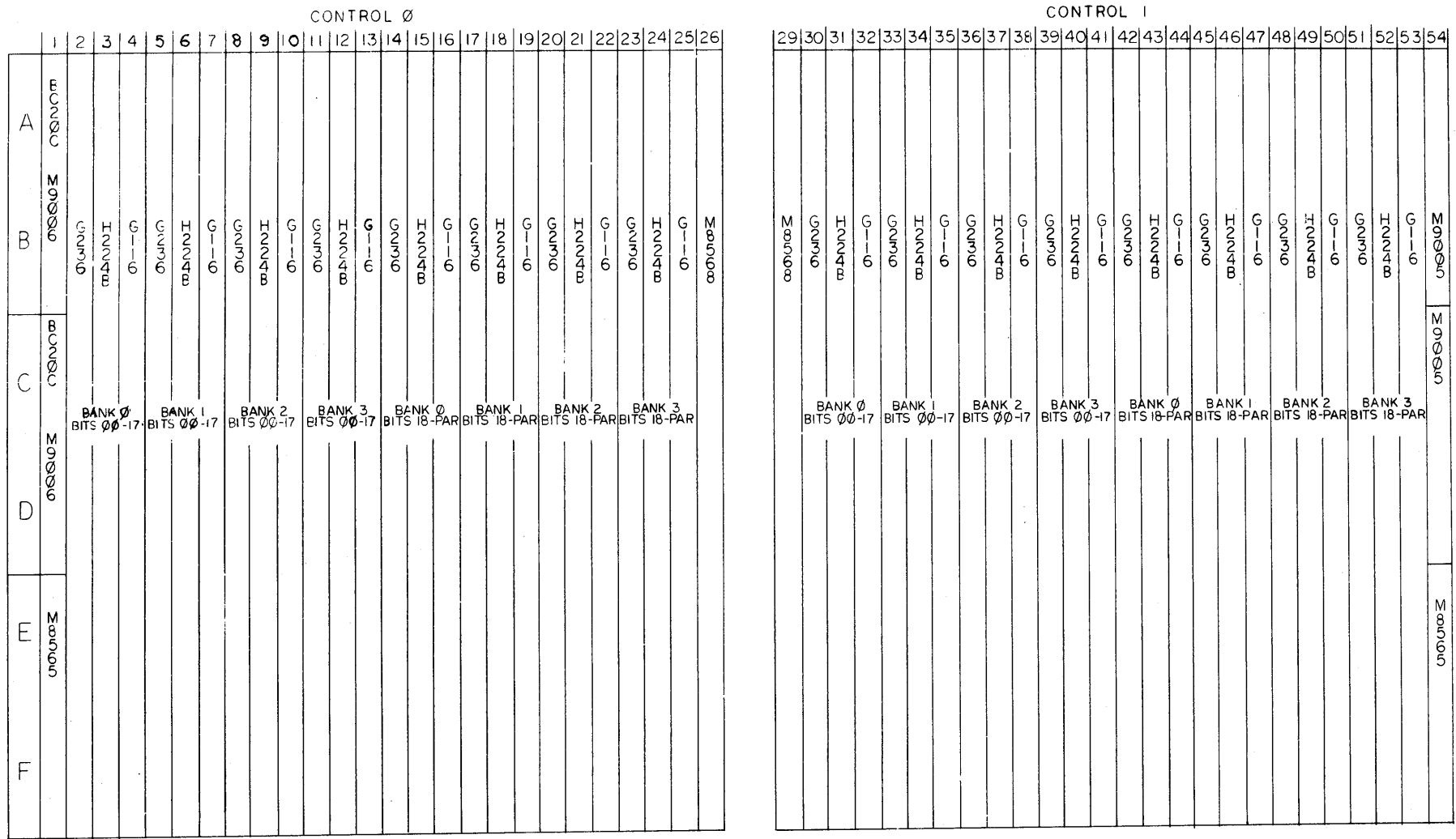
C

B

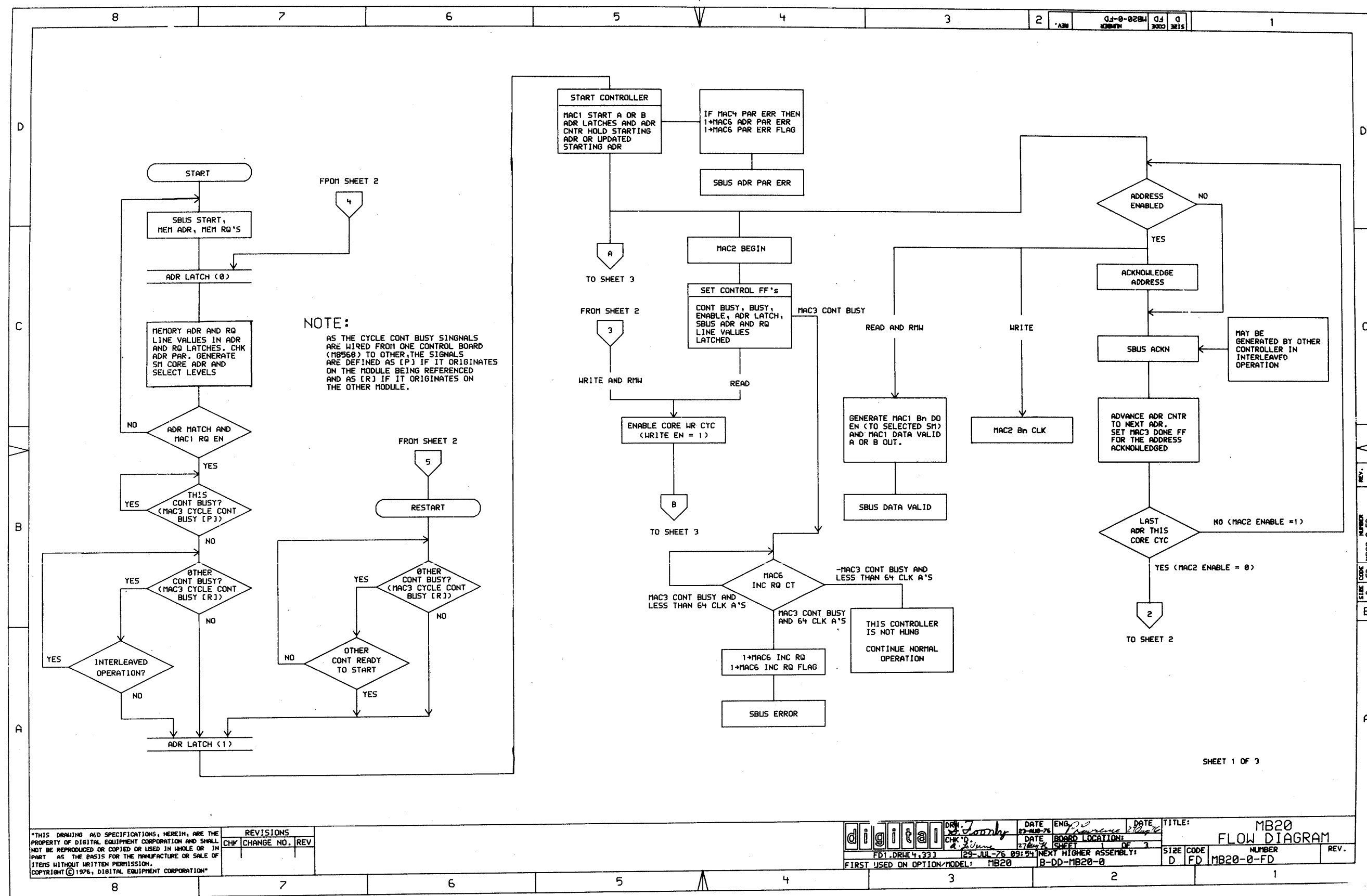
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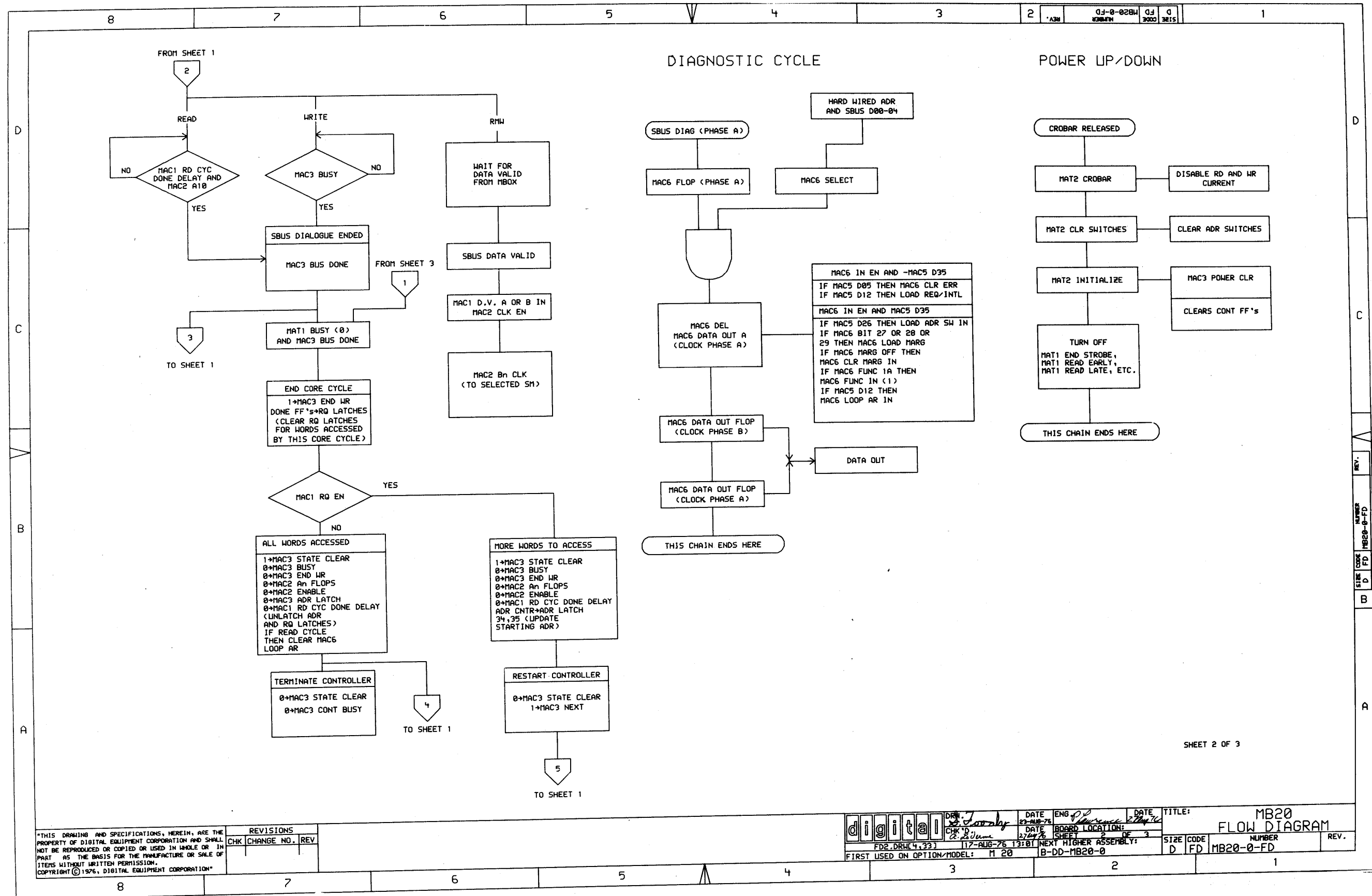
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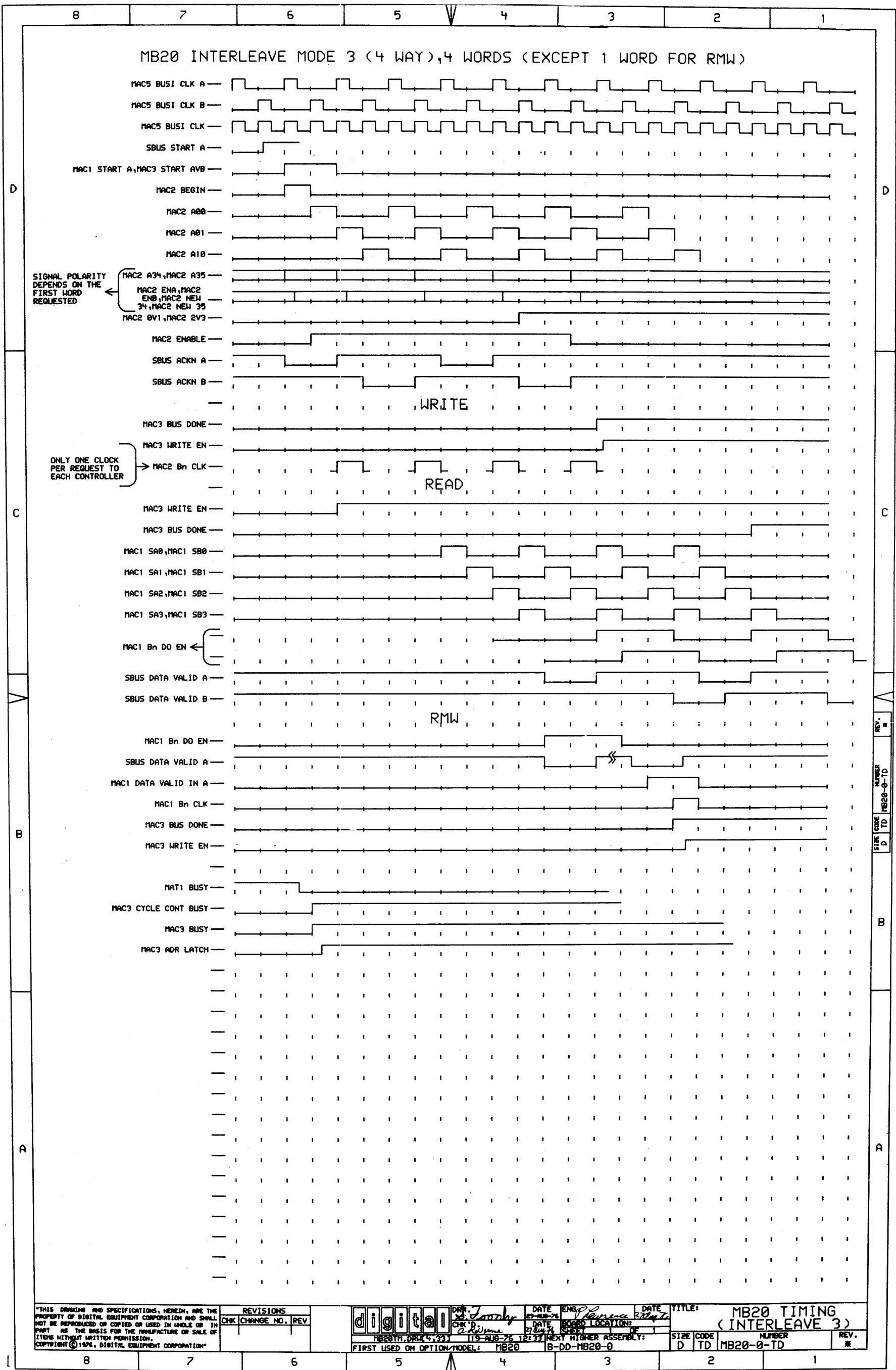
SEC FORM NO. 010 100-C



THIRD ANGLE PROJECTION		DESCRIPTION		DWG./PART NO.	ITEM NO.
REMOVE BURRS AND BREAK SHARP CORNERS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
DO NOT SCALE DWG		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES	
MATERIAL		MEDIUM		OVER 0 TO 0.2	
FINISH		PREFERRED		OVER 0.2 TO 0.5	
				OVER 0.5 TO 1.2	
				OVER 1.2 TO 4.0	
				OVER 4.0 TO 12.0	
				OVER 12.0 TO 40.0	
				OVER 40.0 TO 80.0	
				OVER 80.0 TO 160.0	
				OVER 160.0 TO 320.0	
				OVER 320.0 TO 640.0	
				OVER 640.0 TO 1280.0	
				OVER 1280.0 TO 2560.0	
				OVER 2560.0 TO 5120.0	
				OVER 5120.0 TO 10240.0	
				OVER 10240.0 TO 20480.0	
				OVER 20480.0 TO 40960.0	
				OVER 40960.0 TO 81920.0	
				OVER 81920.0 TO 163840.0	
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				OVER 1310720.0 TO 2621440.0	
				OVER 2621440.0 TO 5242880.0	
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				OVER 10485760.0 TO 20971520.0	
				OVER 20971520.0 TO 41943040.0	
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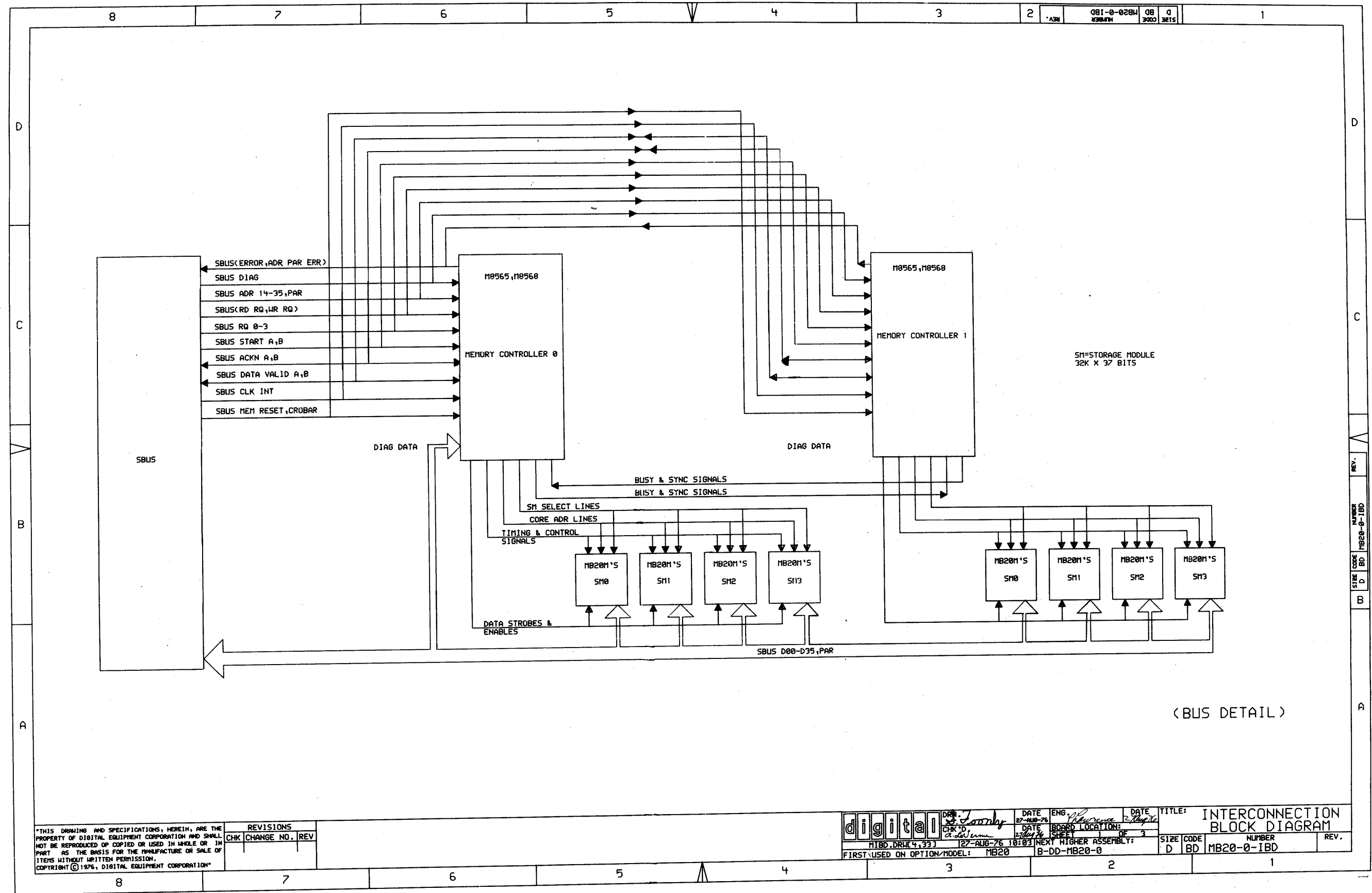
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REVISIONS		
CHK	CHANGE NO.	REV



DATE 02-08-76 ENG. 02-08-76
DATE 07-04-76
MB20TH, DRK 4, 33 115-AUG-76 12133 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MB20 B-DD-MB20-0

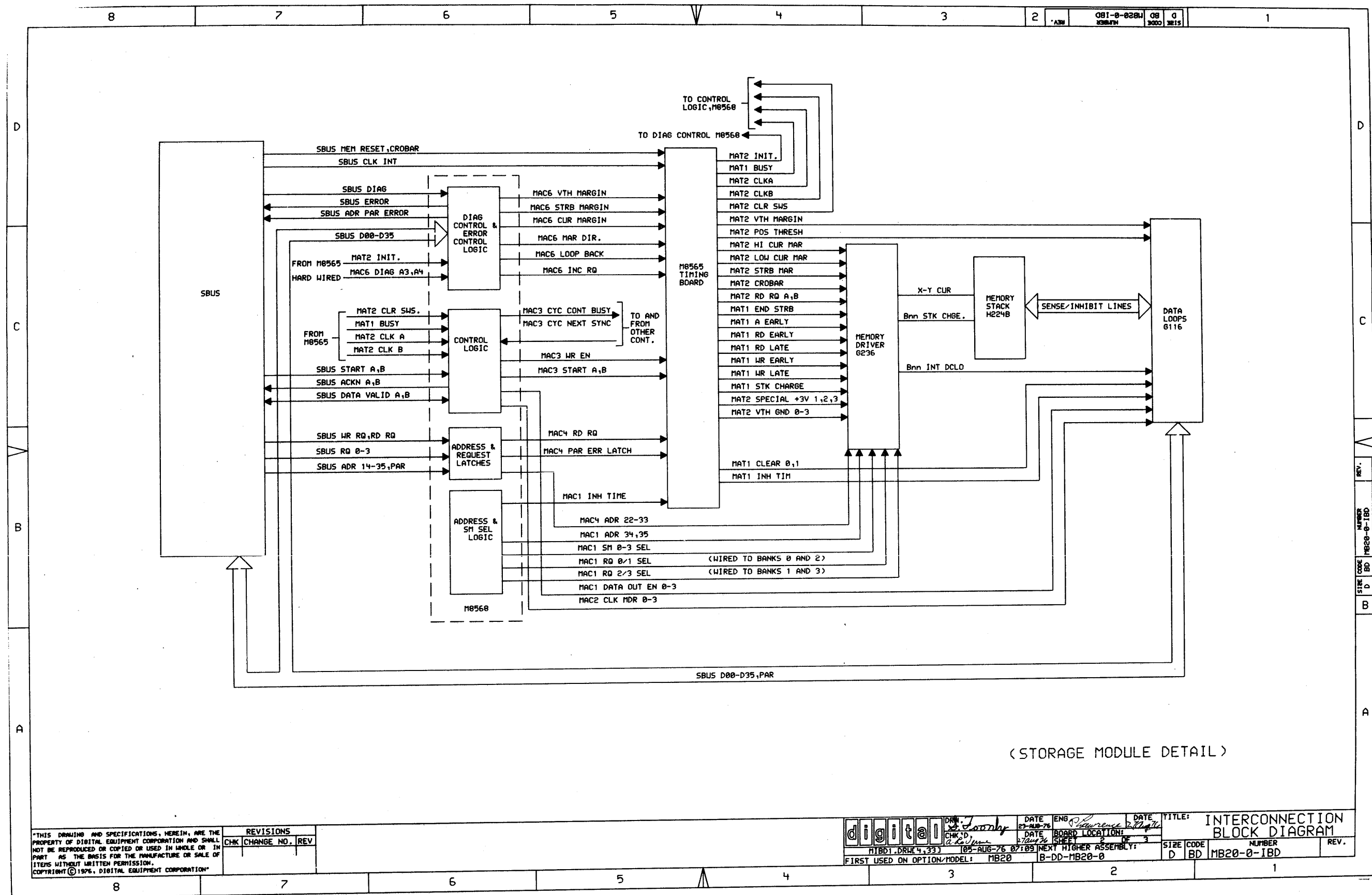
TITLE: MB20 TIMING (INTERLEAVE 3)
SIZE CODE D TD NUMBER MB20-0-TD REV. #

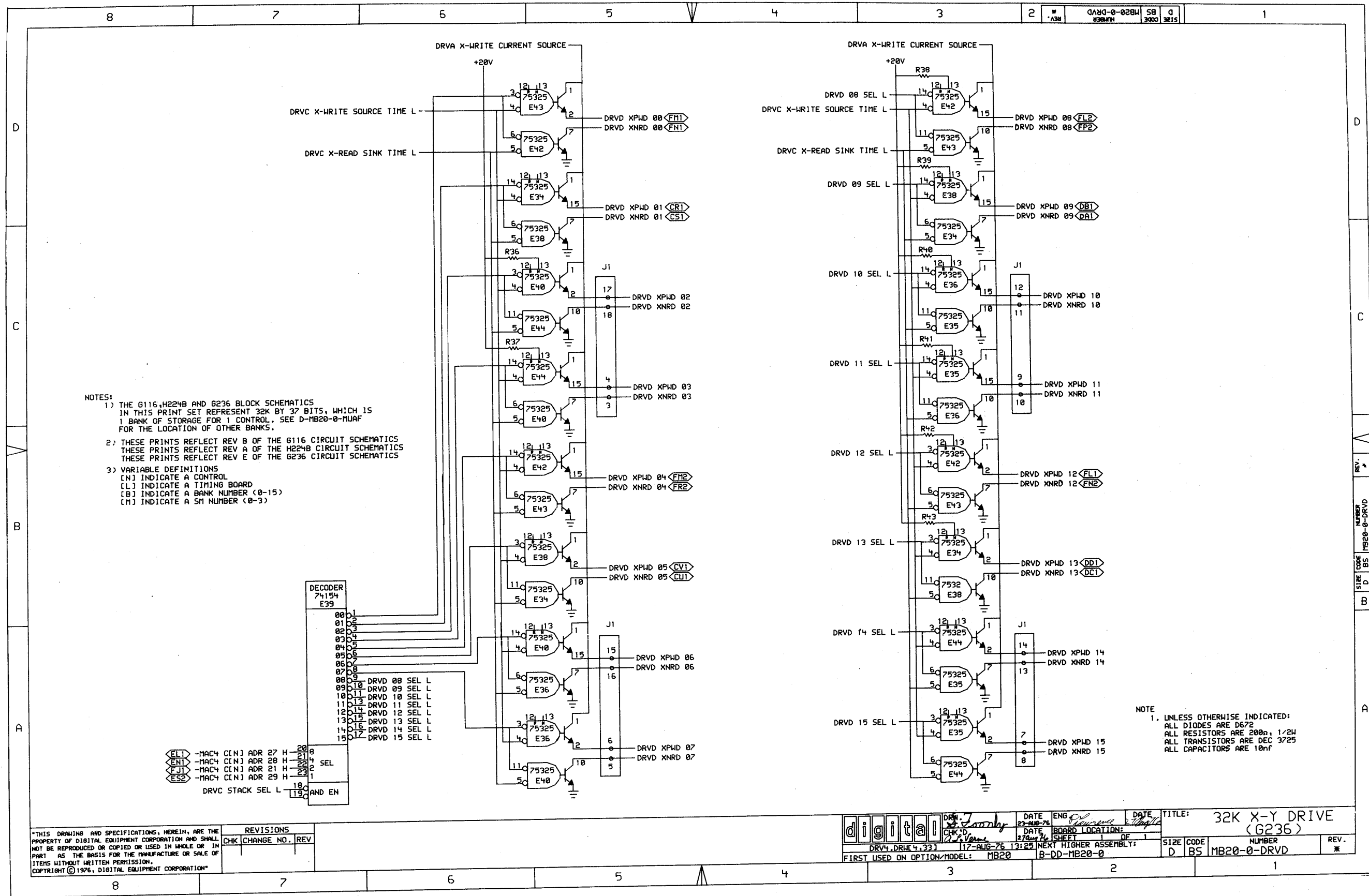


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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	ENG	DATE	TITLE	SIZE	CODE	NUMBER	REV.
	27-AUG-76	J. J. J.	27-AUG-76	INTERCONNECTION BLOCK DIAGRAM				
MBD, DRW 4, 333	27-AUG-76 10:03	10:03	10:03	NEXT HIGHER ASSEMBLY:	D	BD	MB20-0-IBD	1
FIRST USED ON OPTION/MODEL: MB20					B-DD-MB20-0			



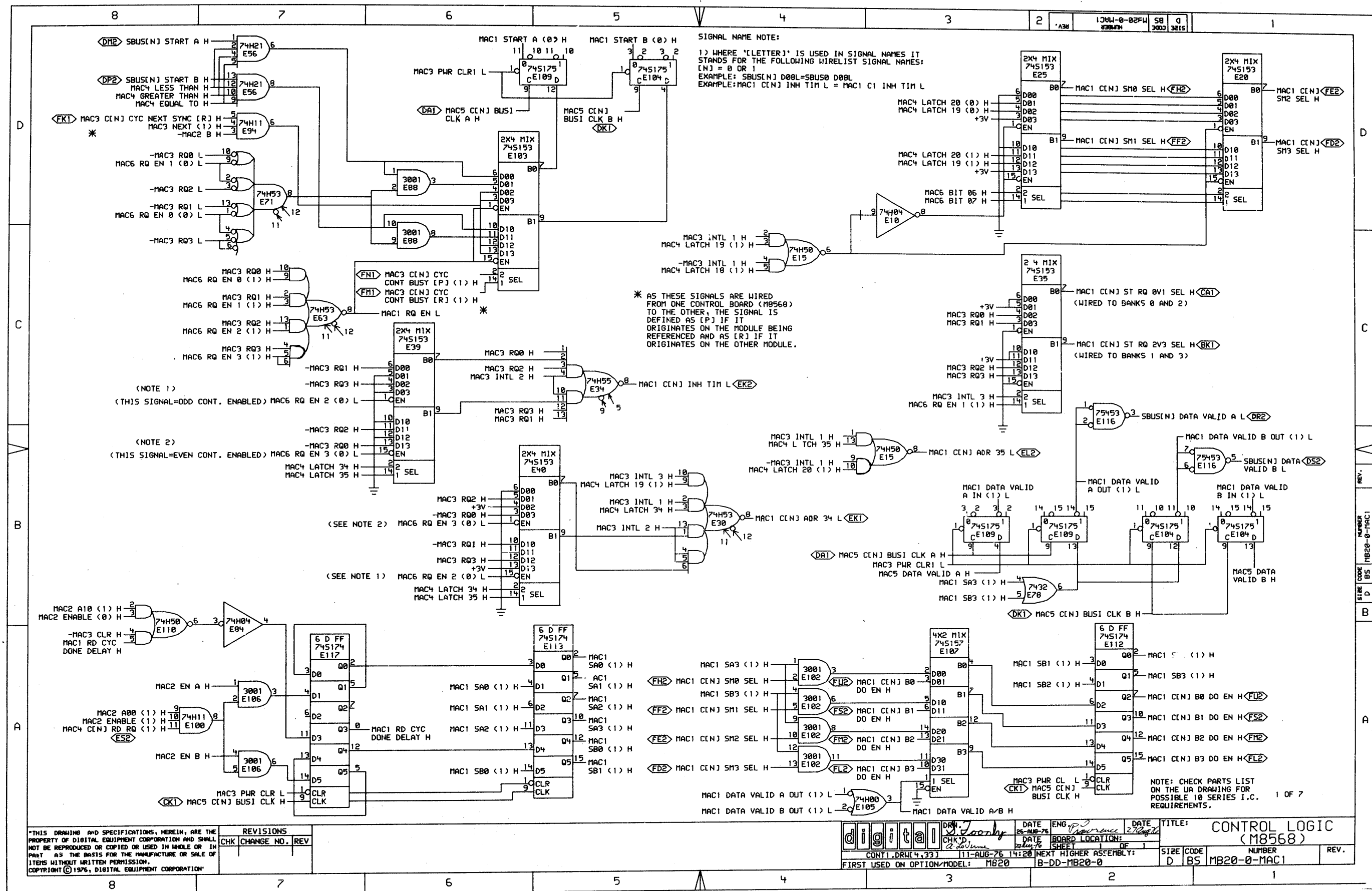


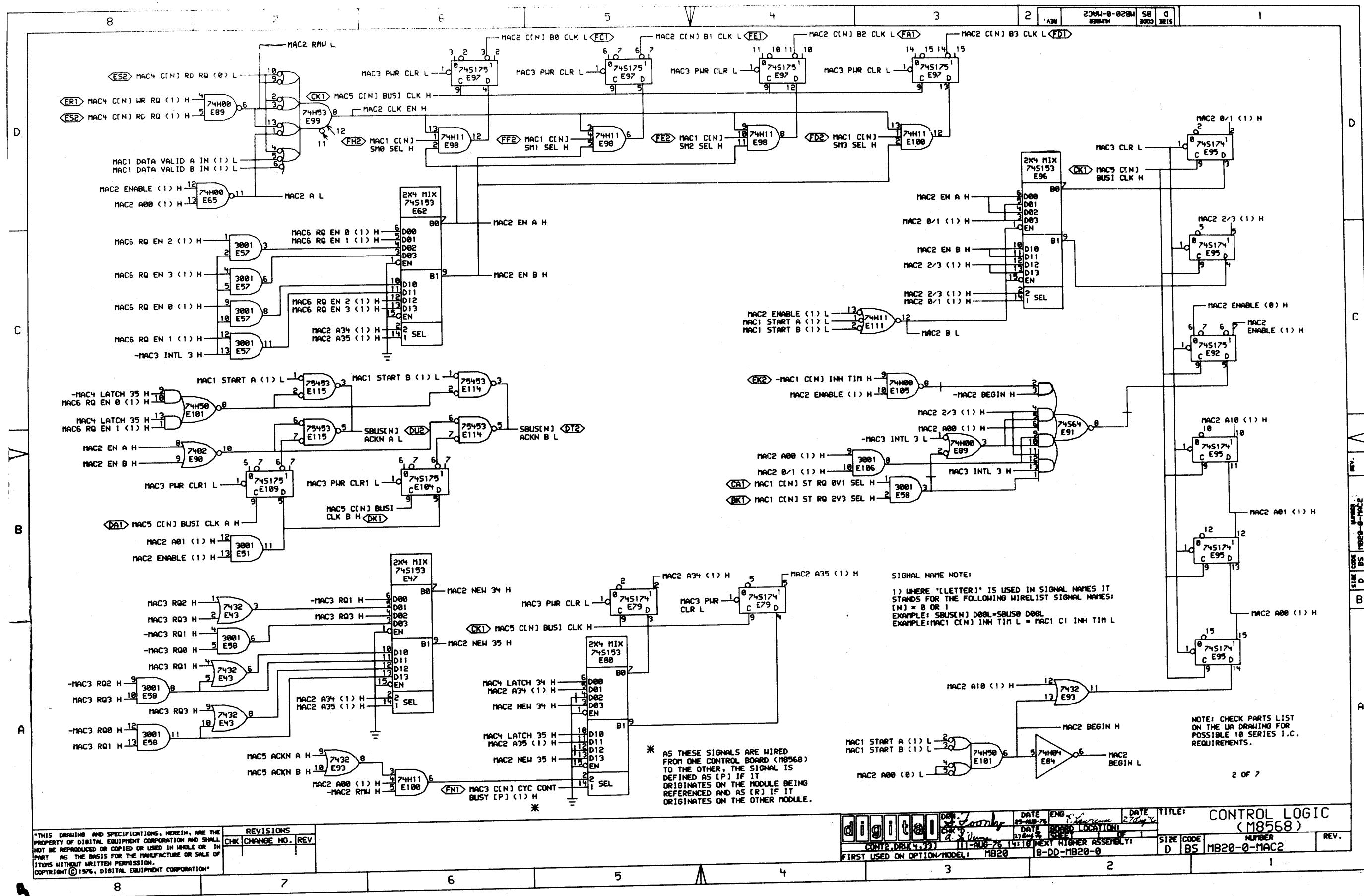
NOTES:
1) THE G116, H224B AND G236 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 32K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MB20-0-NJAF FOR THE LOCATION OF OTHER BANKS.
2) THESE PRINTS REFLECT REV B OF THE G116 CIRCUIT SCHEMATICS THESE PRINTS REFLECT REV A OF THE H224B CIRCUIT SCHEMATICS THESE PRINTS REFLECT REV E OF THE G236 CIRCUIT SCHEMATICS
3) VARIABLE DEFINITIONS
[N] INDICATE A CONTROL
[L] INDICATE A TIMING BOARD
[B] INDICATE A BANK NUMBER (0-15)
[M] INDICATE A SM NUMBER (0-3)

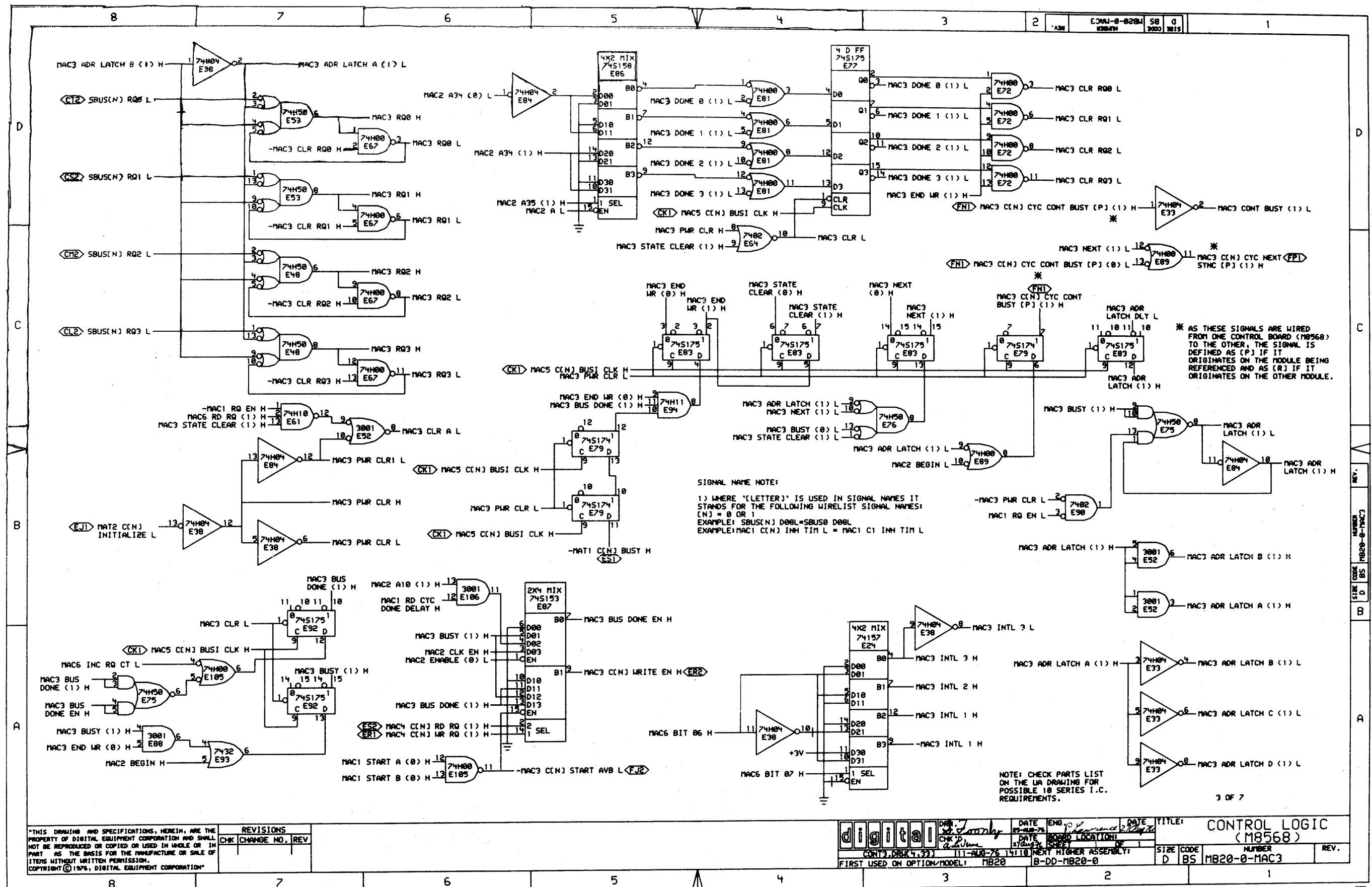
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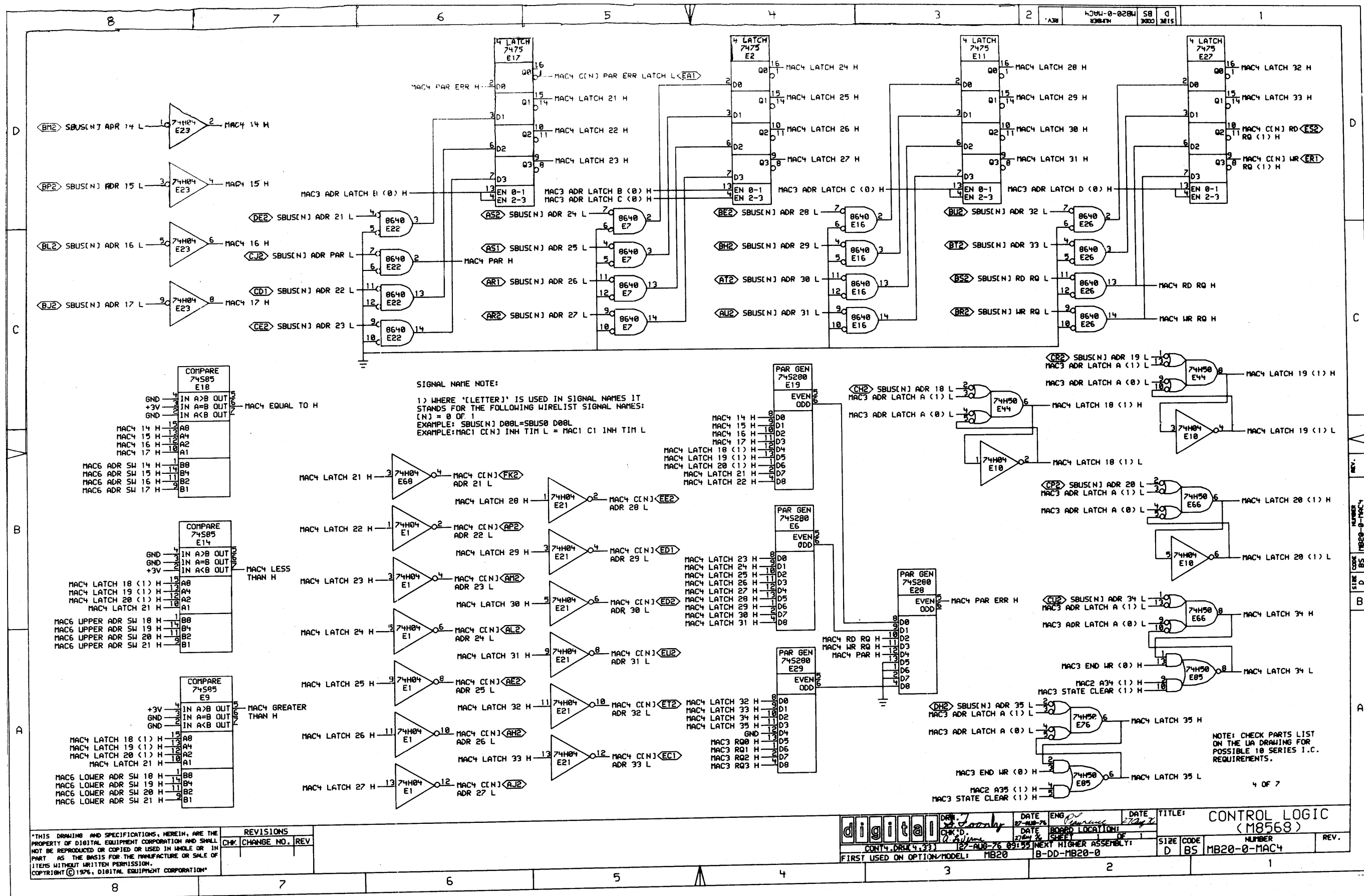
REVISIONS		
CHK	CHANGE NO.	REV

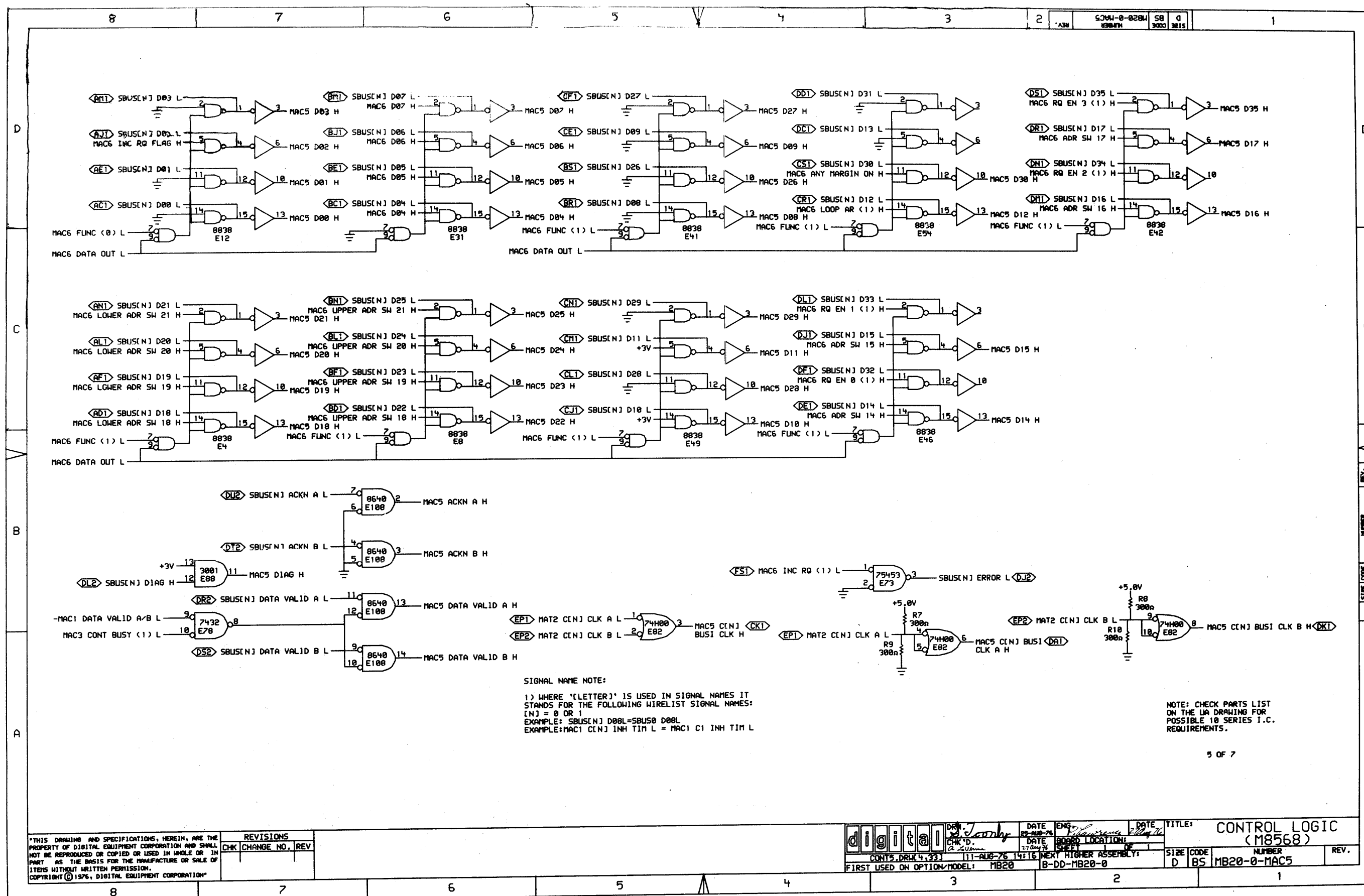
digital	DATE	ENG	DATE	TITLE
	23-AUG-76			32K X-Y DRIVE (G236)
	117-AUG-76 13:25			
FIRST USED ON OPTION/MODEL: MB20		NEXT HIGHER ASSEMBLY: B-DD-MB20-0		
SIZE	CODE	NUMBER	REV.	
D	B5	MB20-0-DRVD	*	

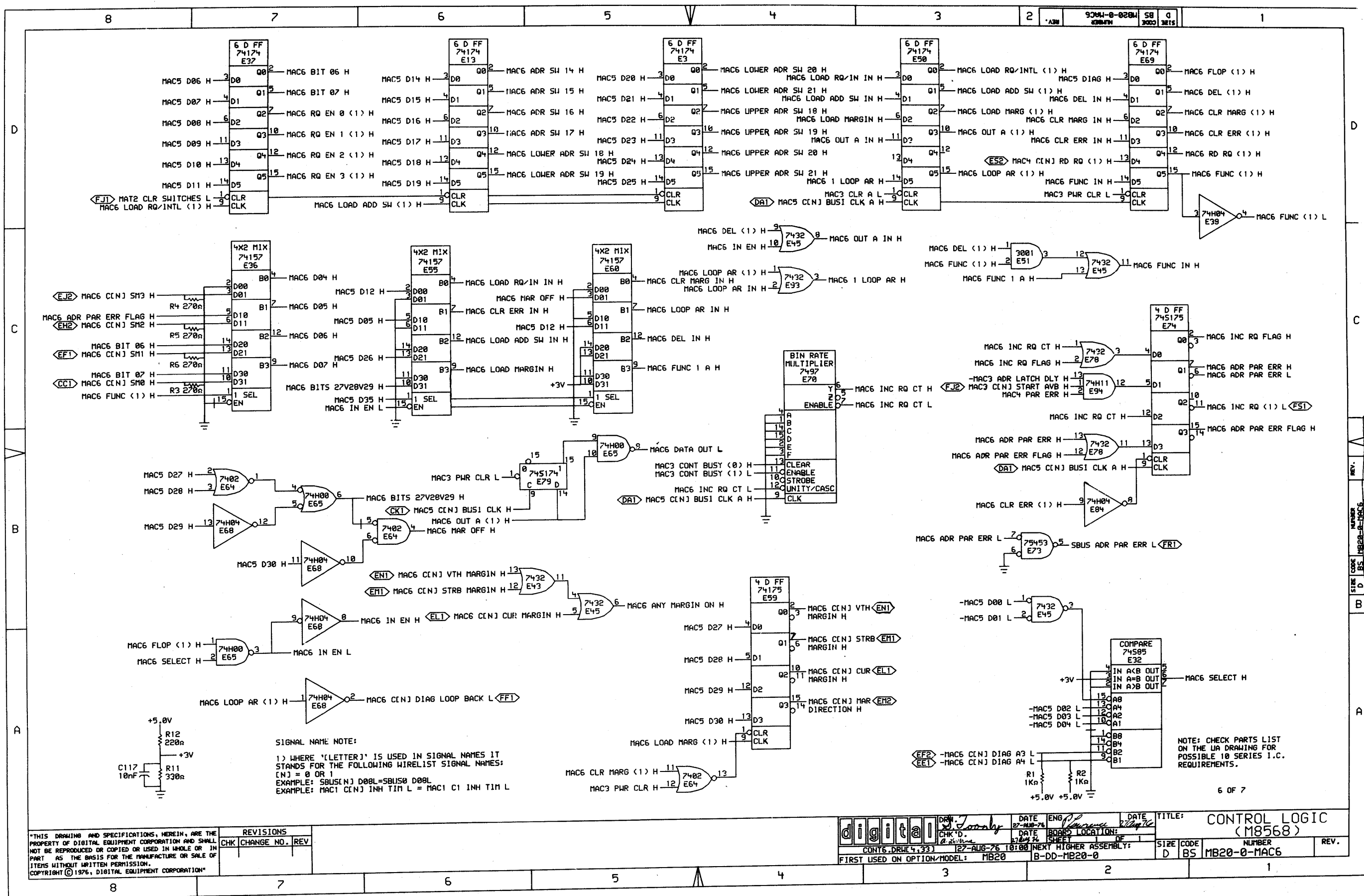


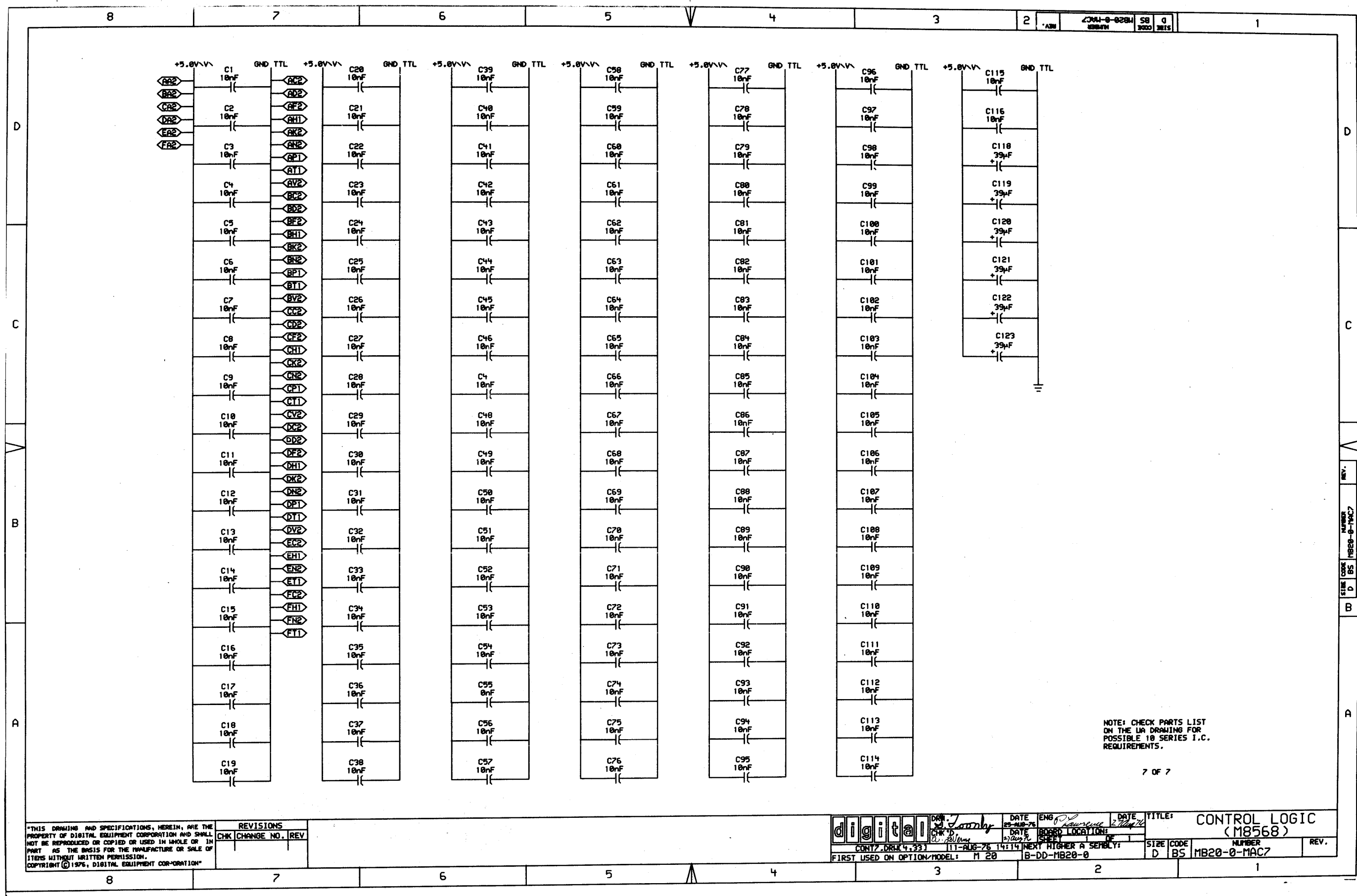


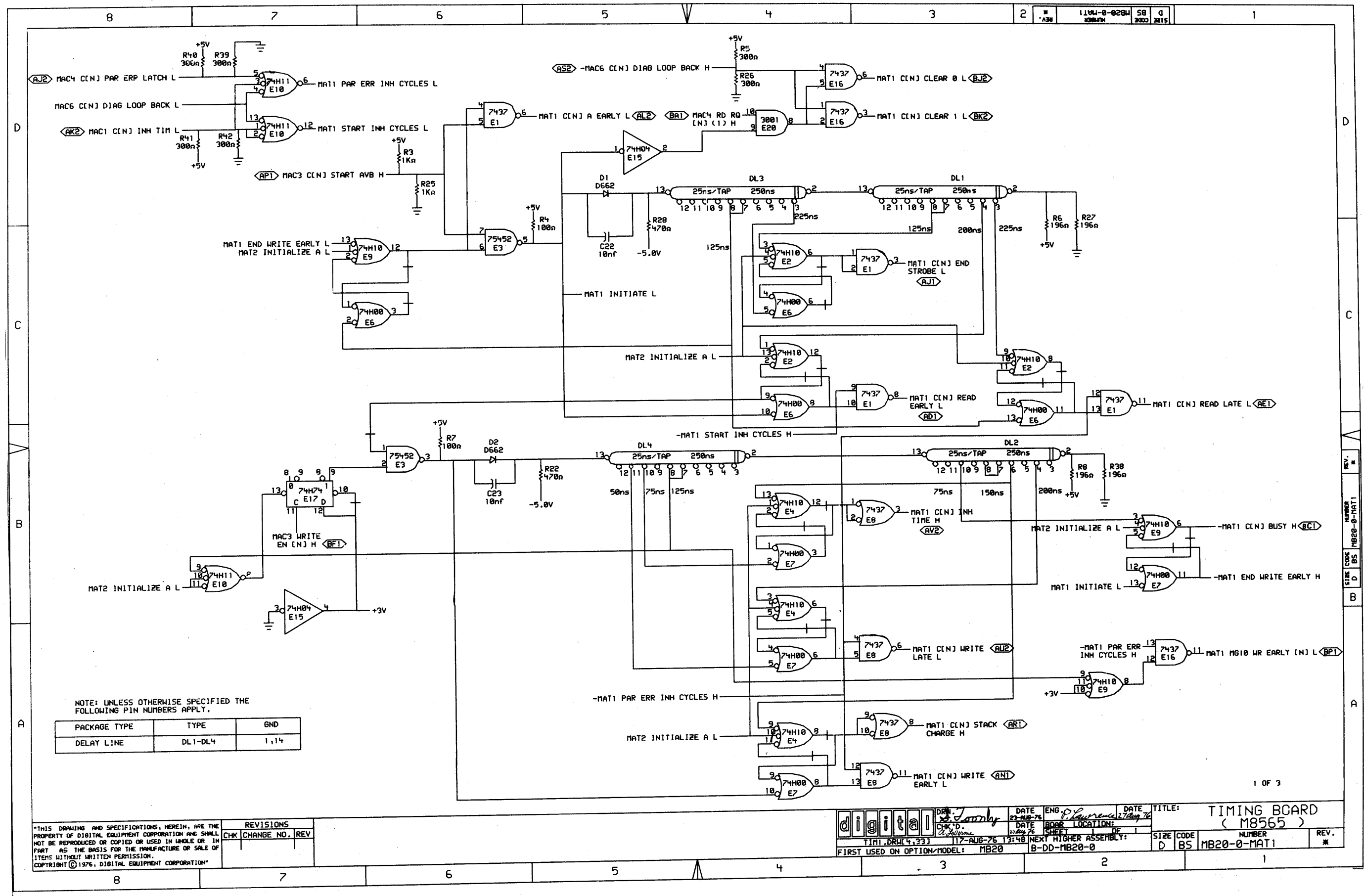


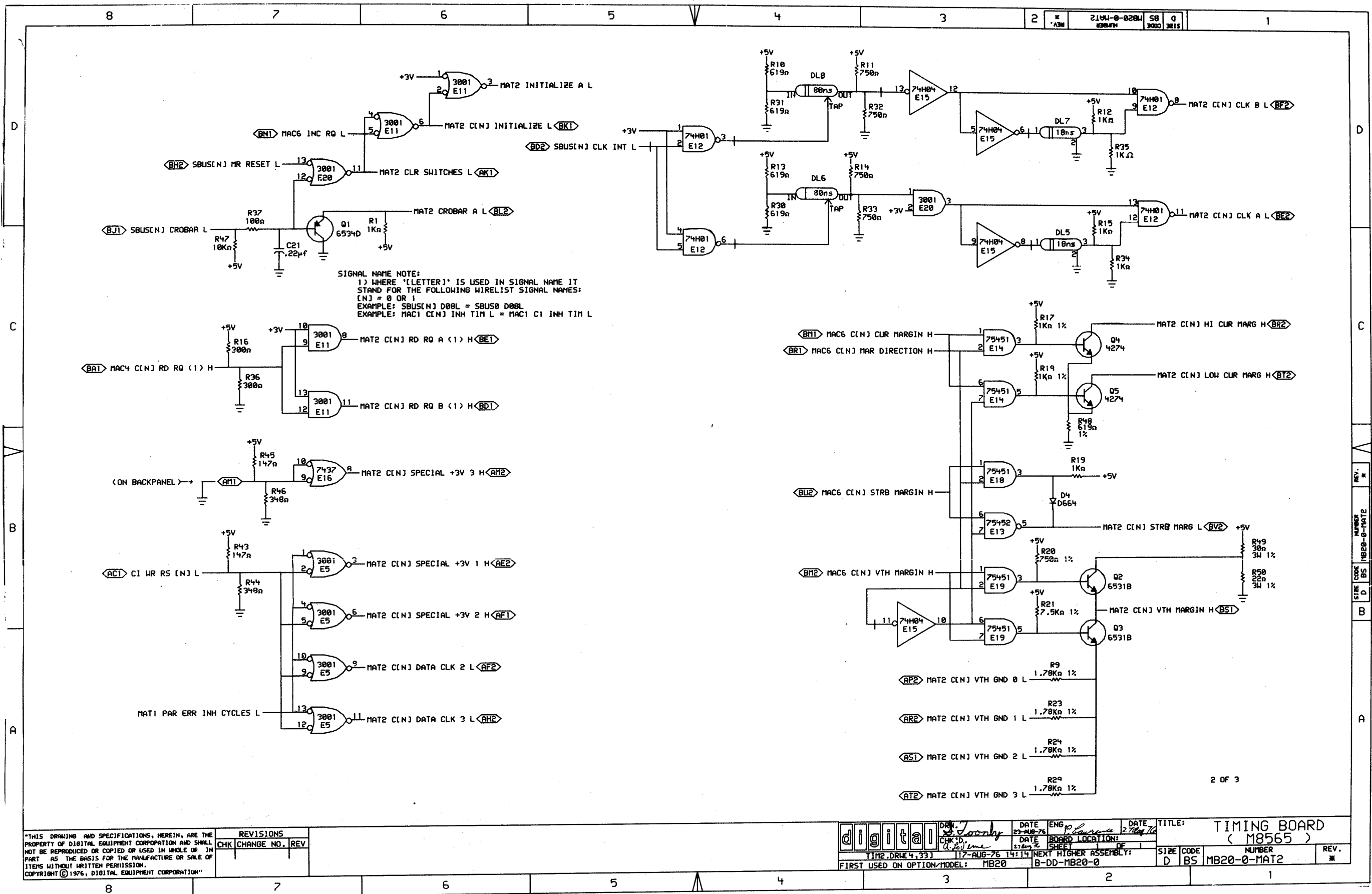


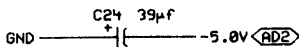






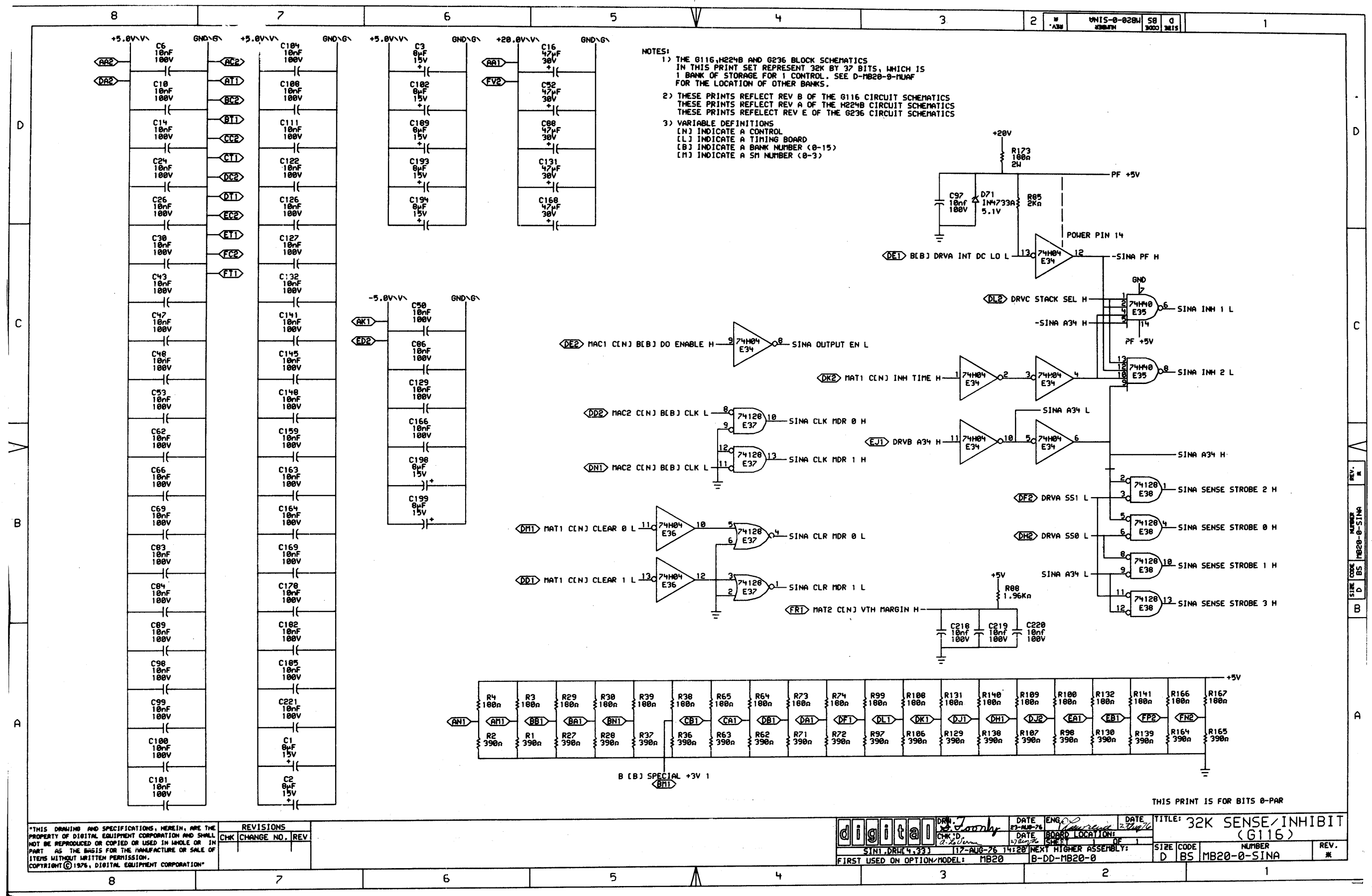


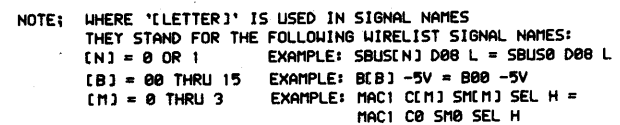




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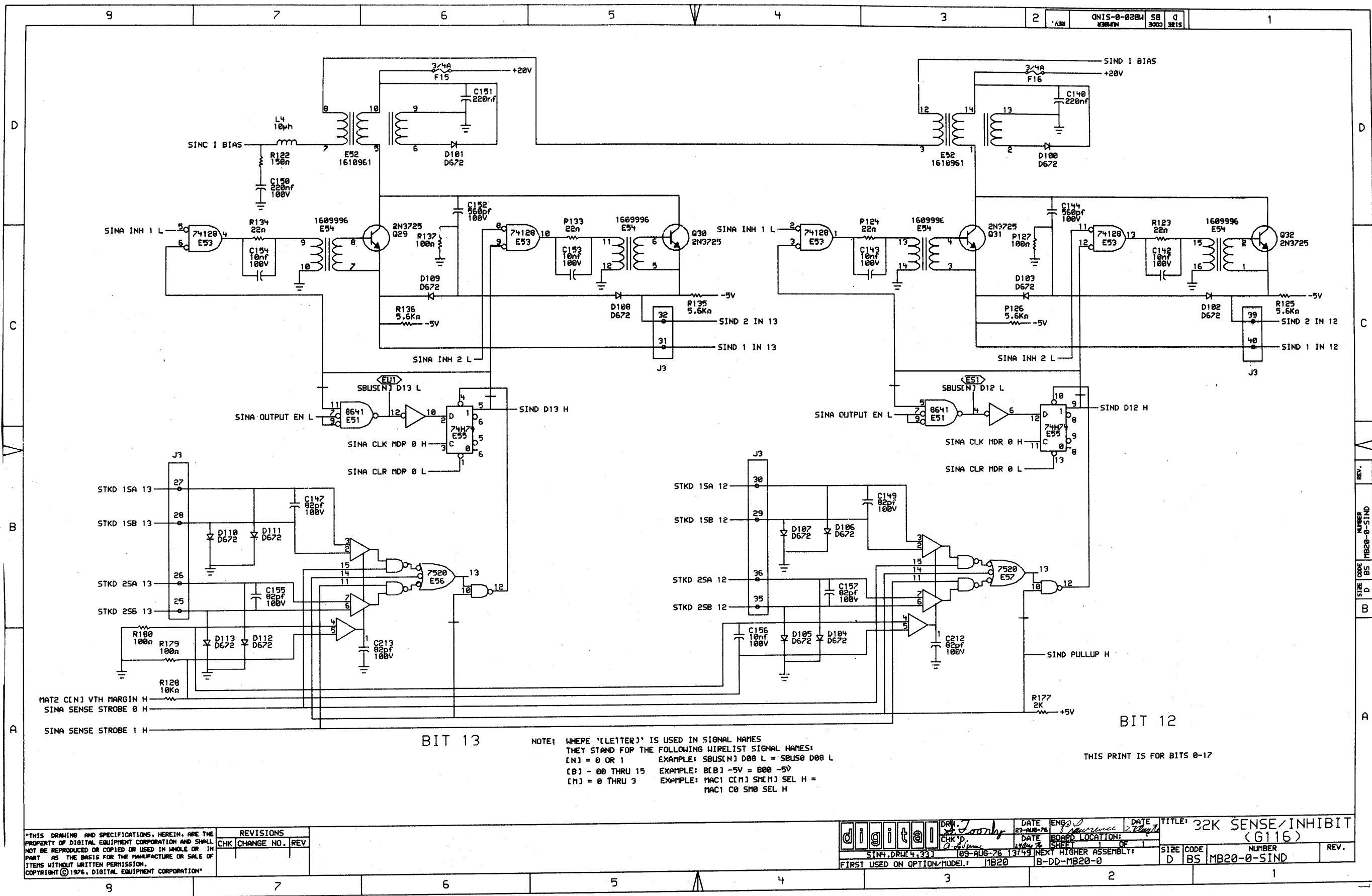
digital	DRN: 7	DATE: 23-AUG-76	ENG: Phureme	DATE: 2 Aug 76	TITLE: TIMING BOARD			
	CHK'D: 12-2-76	DATE: 23 Aug 76	BOARD LOCATION: SHEET 1 OF 1	PWR & GND (M8565)				
TIM3.DRW(4,23)		11-11	NEXT HIGHER ASSEMBLY:		SIZE: D	CODE: B5	NUMBER: MB20-0-MAT3	REV: *
FIRST USED ON OPTION/MODEL: MB20		B-DD-MB20-0						





BIT 16

digital	DRW. <i>A. Loring</i>	DATE <i>23-AUG-76</i>	ENG <i>23-AUG-76</i>	DATE <i>23-AUG-76</i>	TITLE: 32K SENSE/INHIBIT (G116)			
	CHK'D. <i>A. Loring</i>	DATE <i>27-AUG-76</i>	BOARD LOCATION: SHEET <i>1</i> OF <i>1</i>		SIZE	CODE	NUMBER	REV.
SIN2.DRW14.331		17-JUN-76 08:55			NEXT HIGHER ASSEMBLY:			
FIRST USED ON OPTION MODEL: MB20		B-DD-MB20-0			D	BS	MB20-0-SINB	

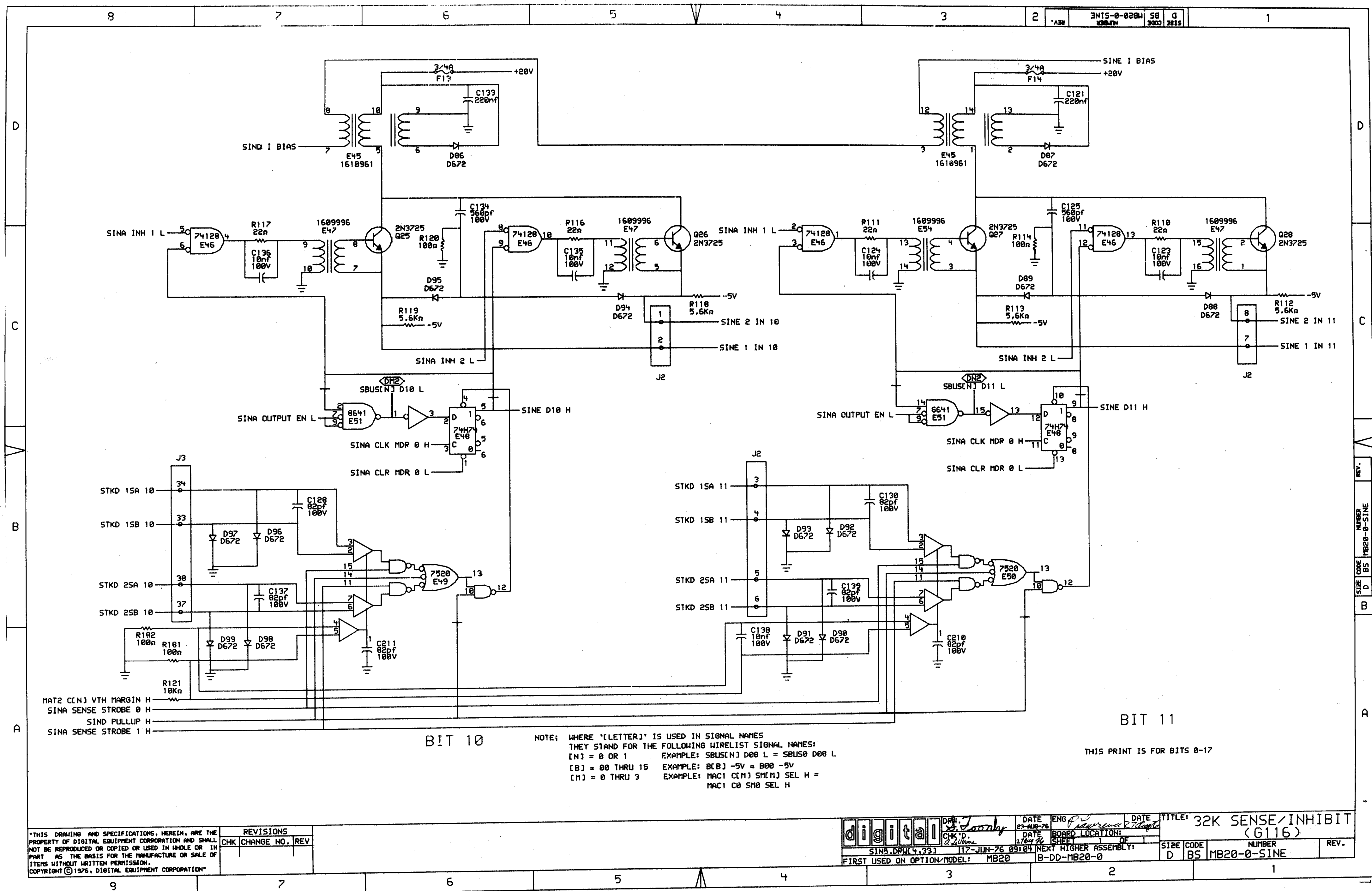


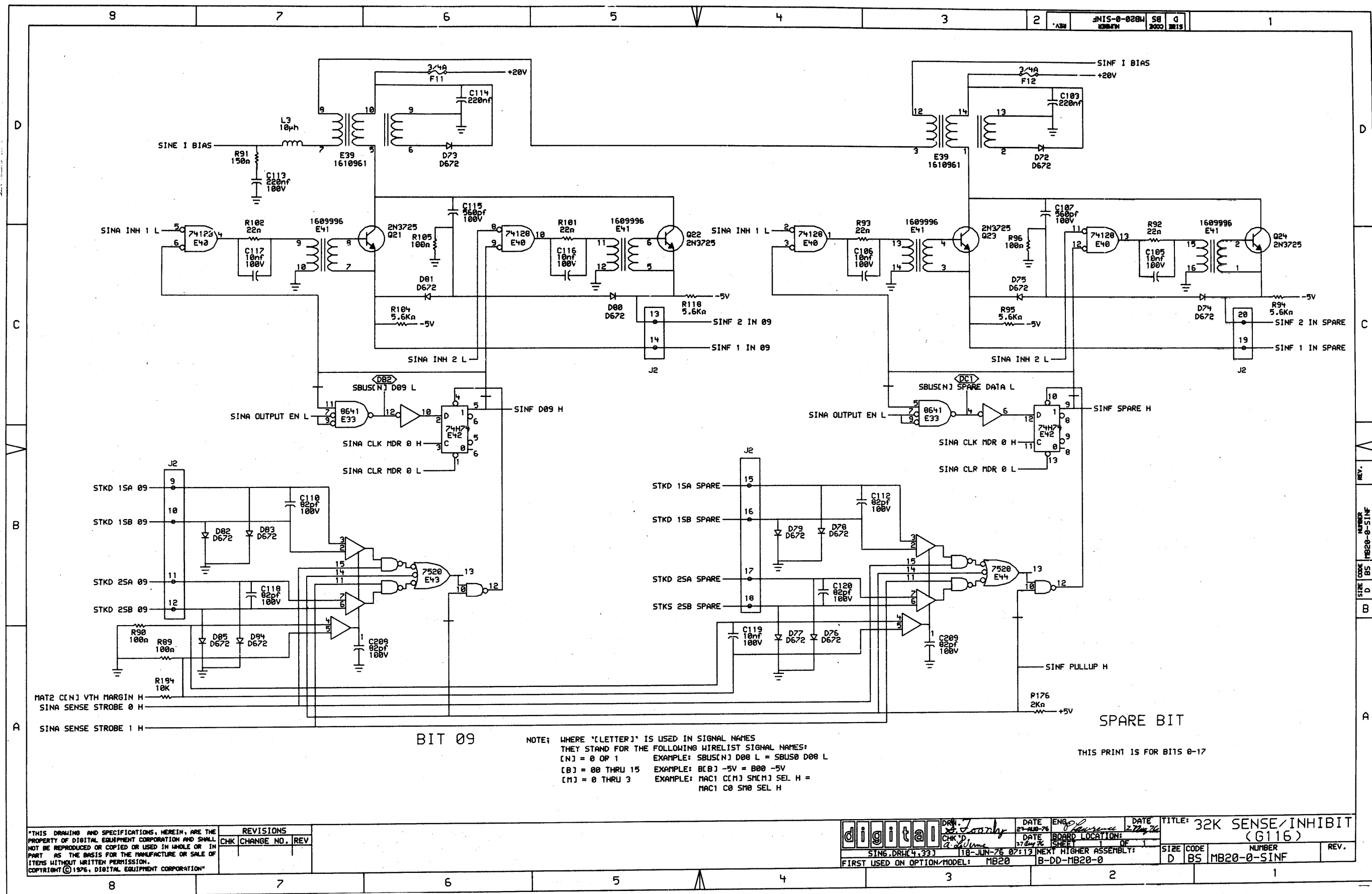
BIT 13

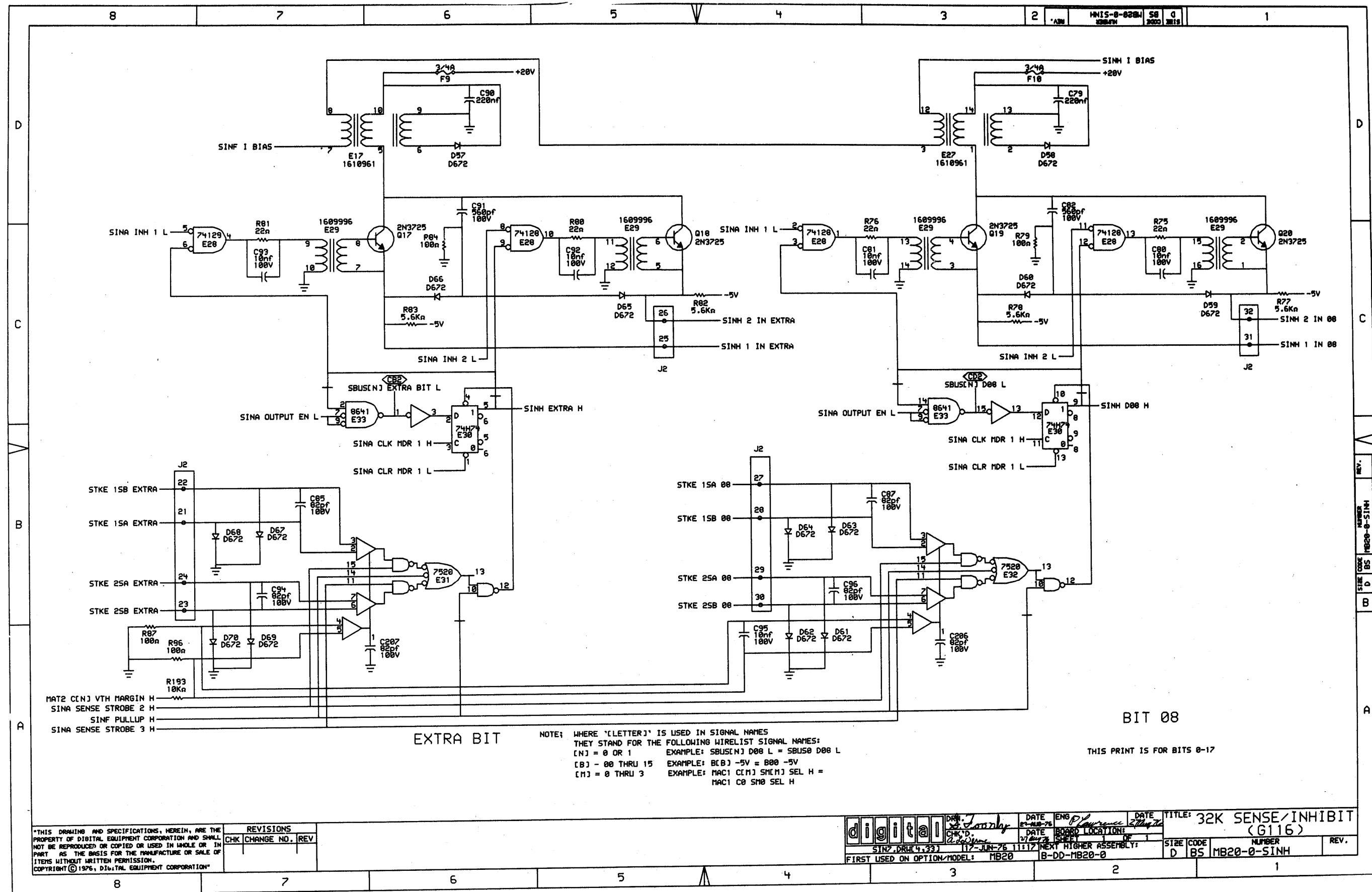
BIT 12

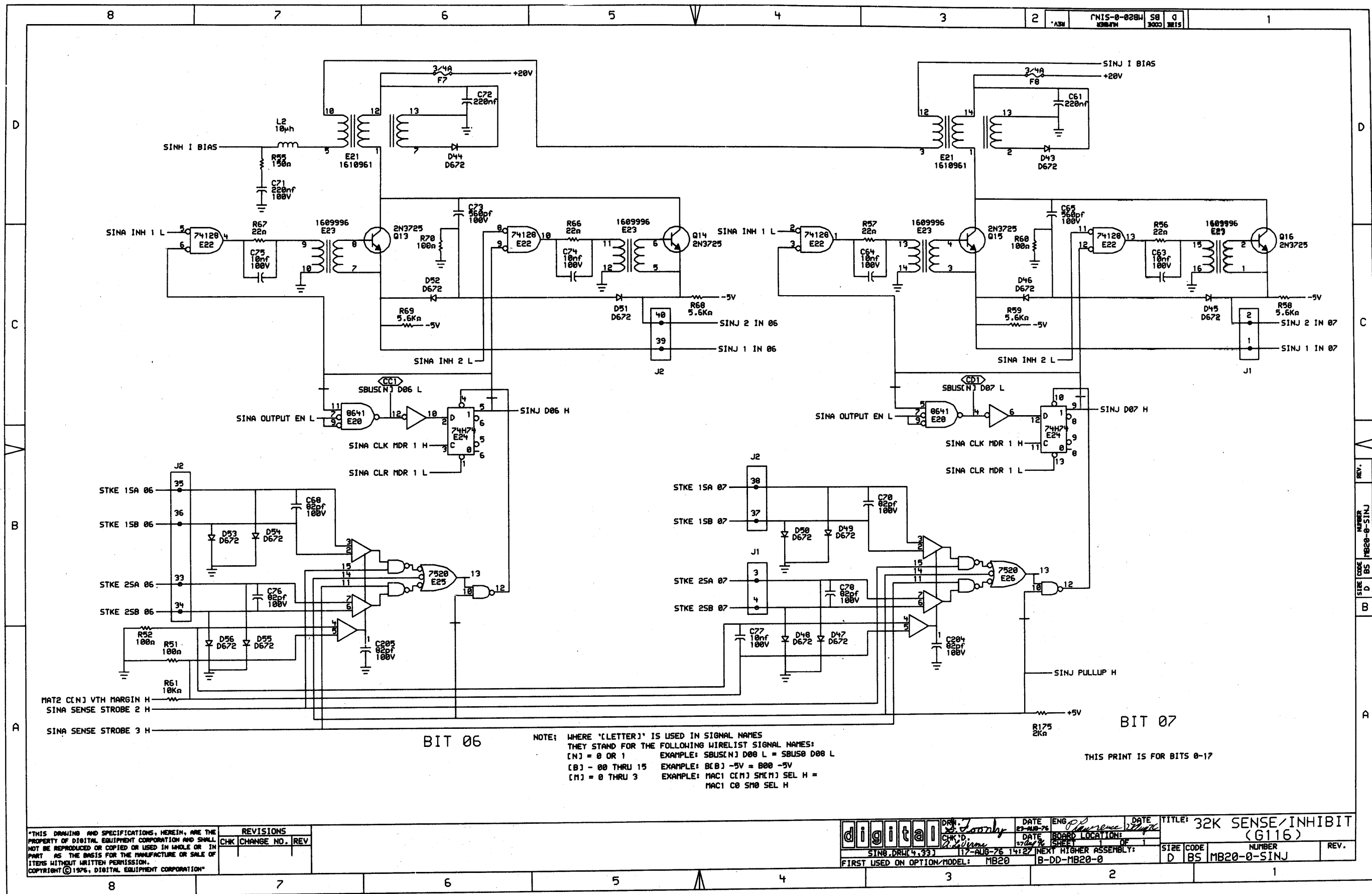
THIS PRINT IS FOR BITS 0-17

NOTE: WHERE '[LETTER]' IS USED IN SIGNAL NAMES
THEY STAND FOR THE FOLLOWING WIRELIST SIGNAL NAMES:
[N] = 0 OR 1 EXAMPLE: SBUS[N] D08 L = SBUS0 D08 L
[B] = 00 THRU 15 EXAMPLE: B[B] -5V = B00 -5V
[M] = 0 THRU 3 EXAMPLE: MAC1 C[M] S[M] SEL H =
MAC1 C0 S0 SEL H





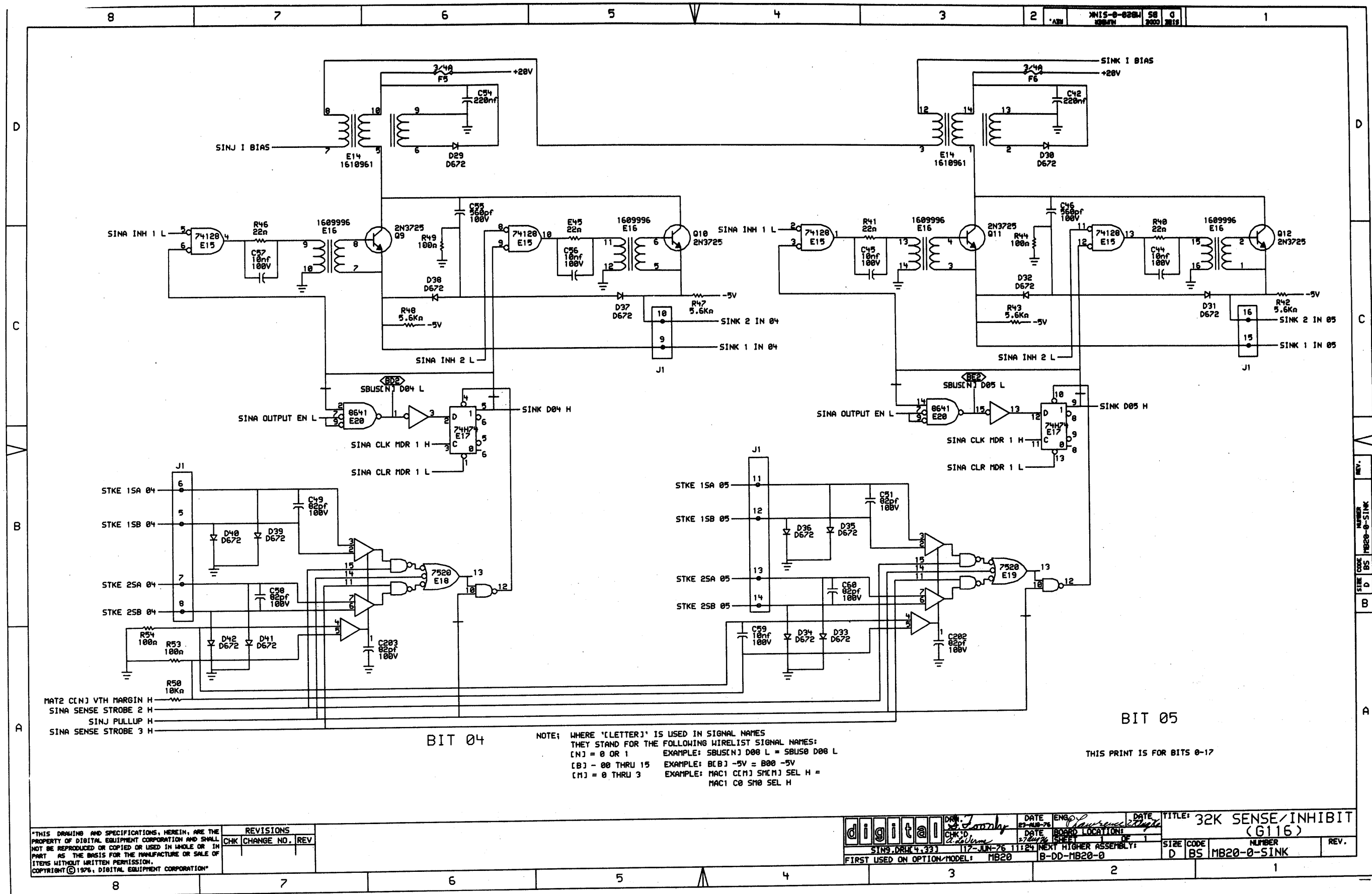


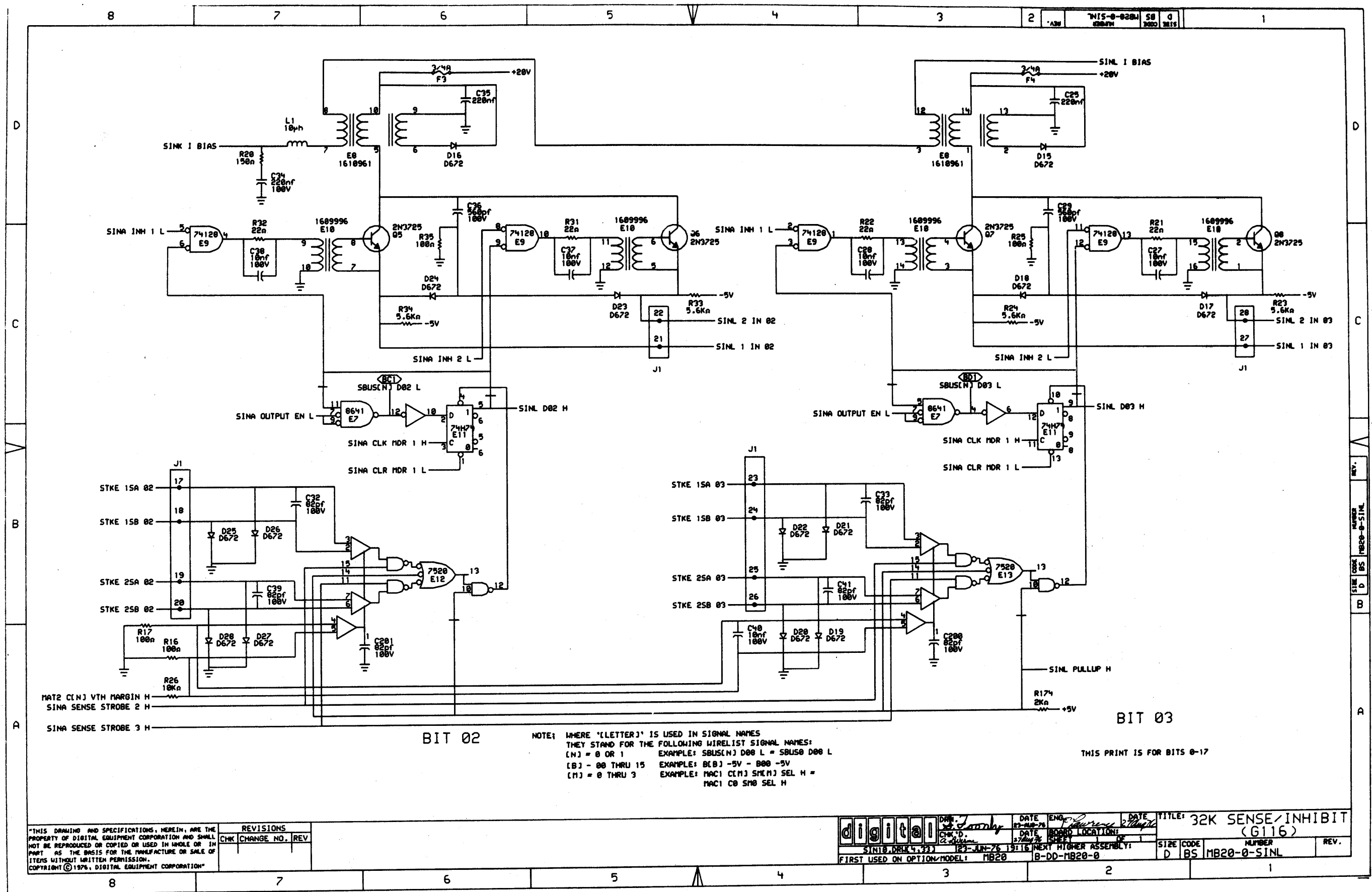


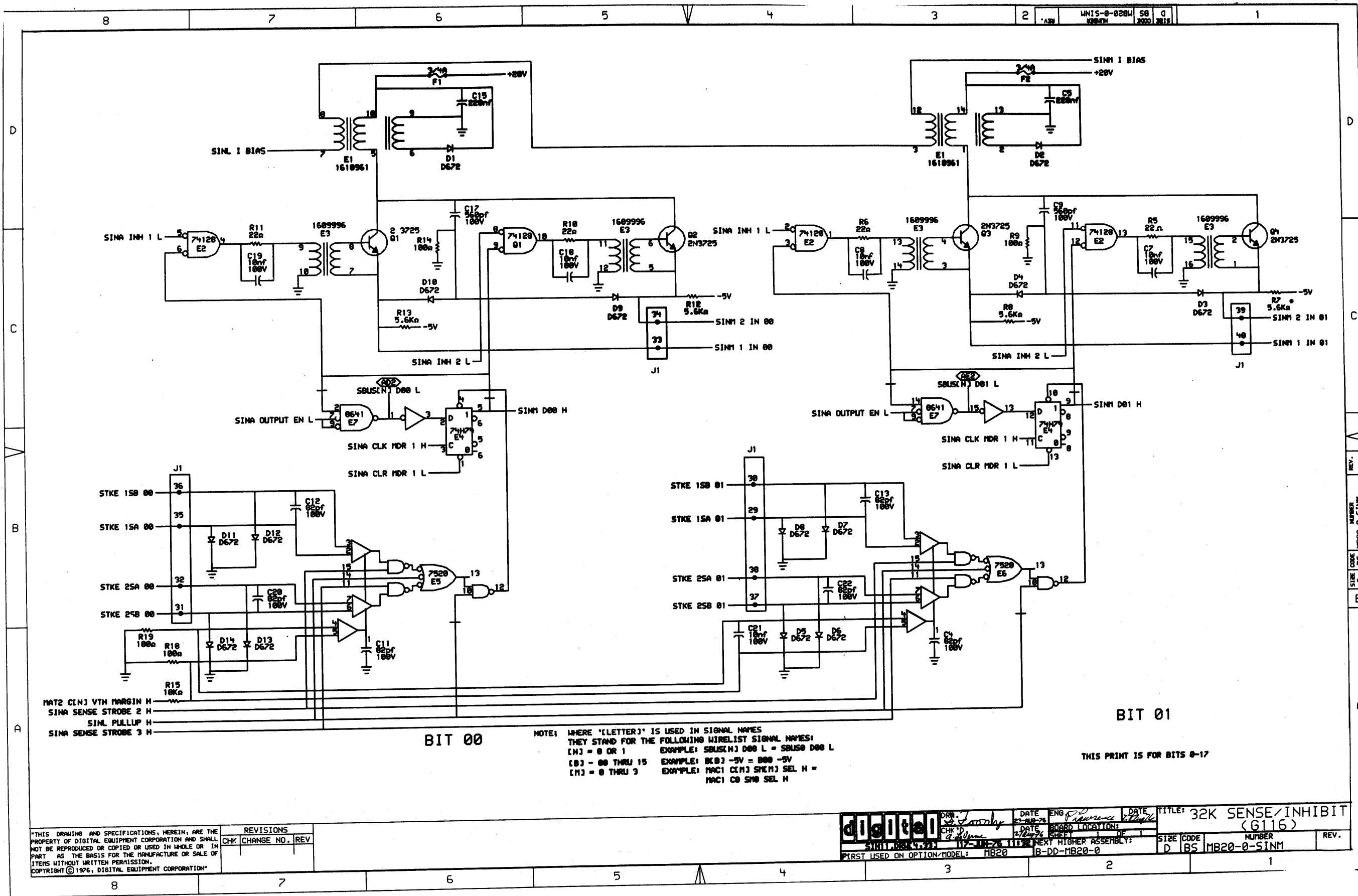
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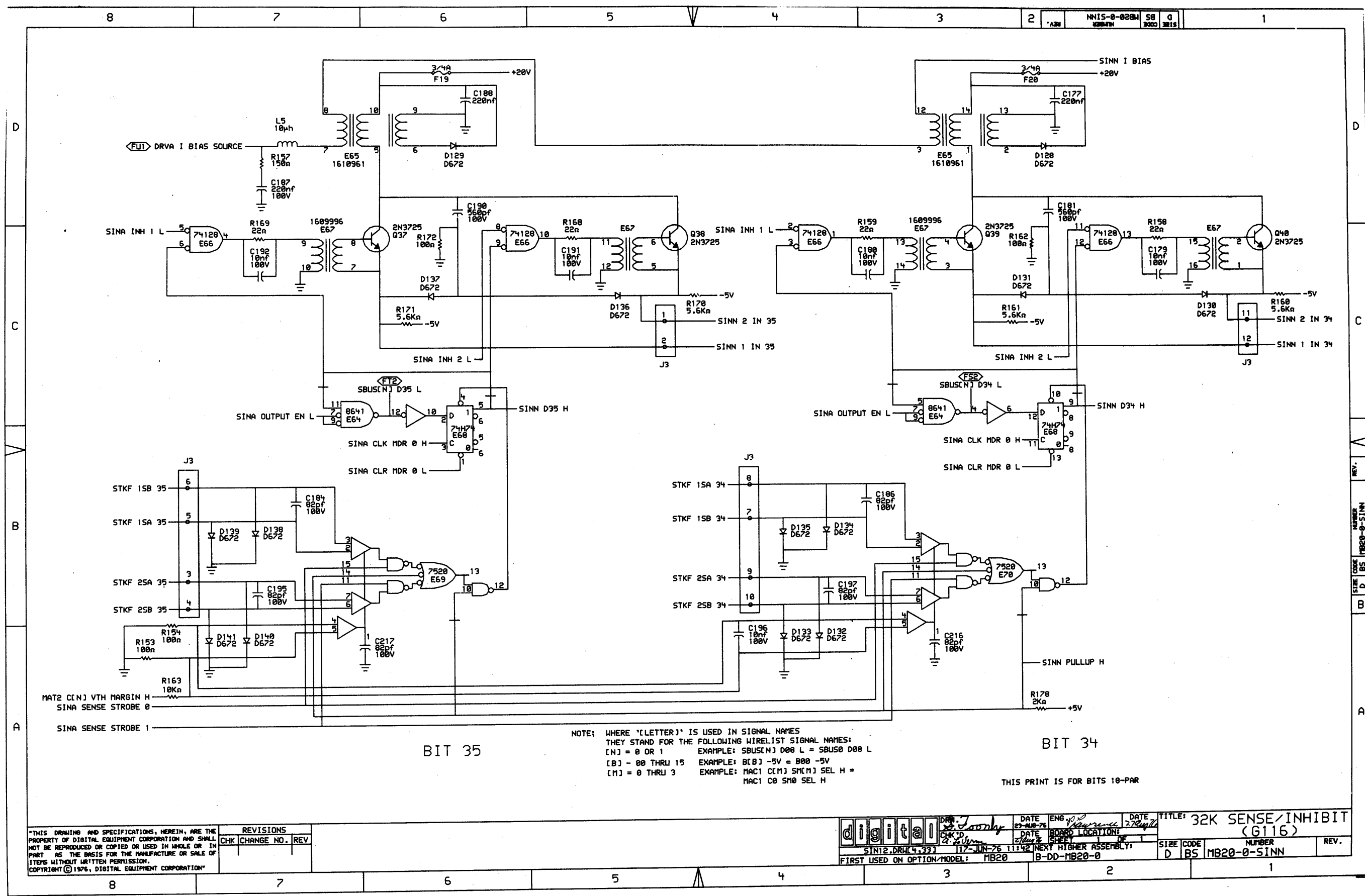
REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	ENG	DATE	TITLE: 32K SENSE/INHIBIT (G116)
	11-2-76	11-2-76	11-2-76	
CHK'D	DATE	BOARD LOCATION	DATE	
11-2-76	11-2-76	11-2-76	11-2-76	
SING. DRW. (4, 33)				SIZE CODE
FIRST USED ON OPTION/MODEL: MB20				D B5 MB20-0-SINJ
NEXT HIGHER ASSEMBLY: B-DD-MB20-0				REV.
				1





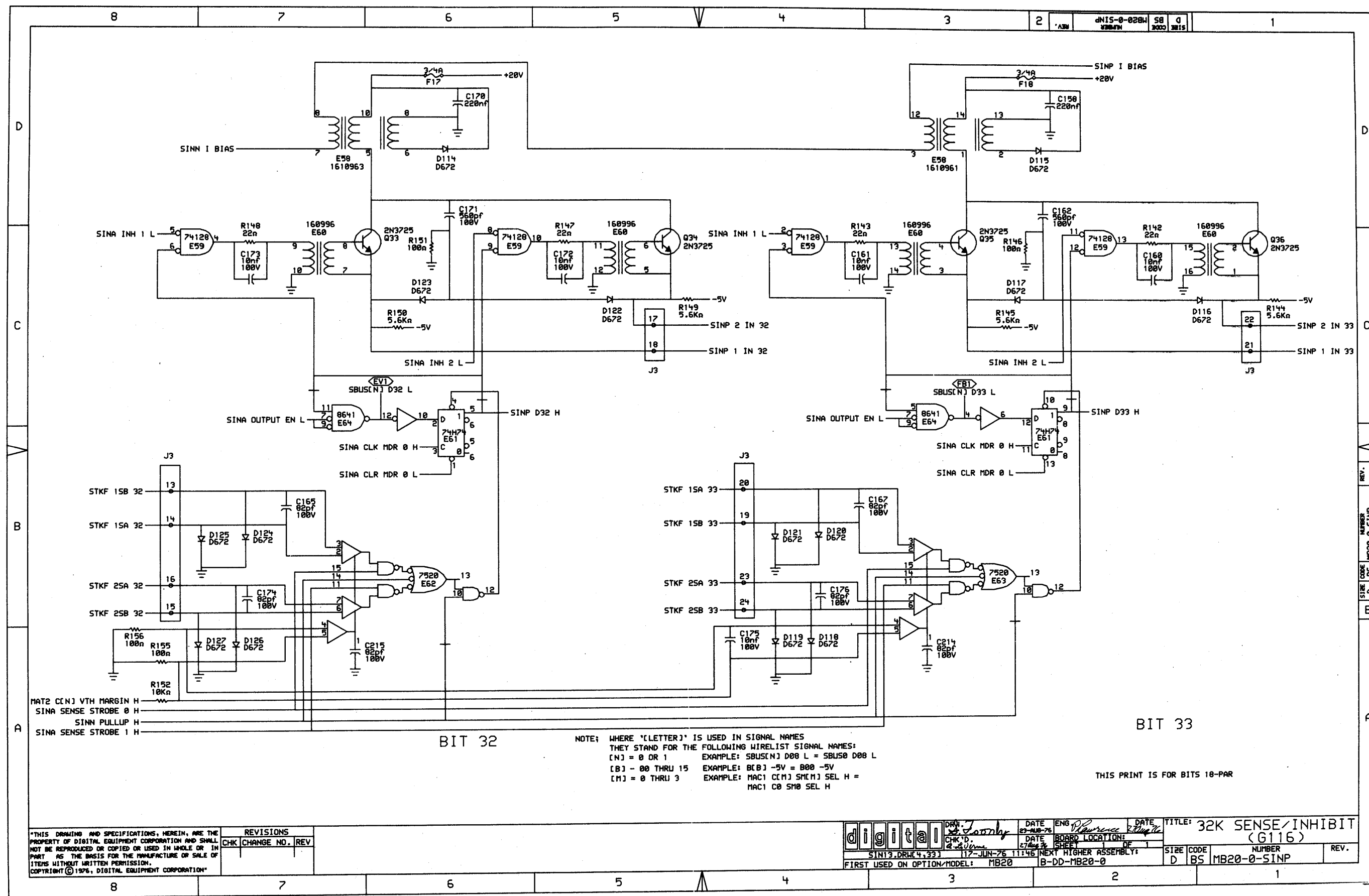




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REVISIONS		
CHK	CHANGE NO.	REV.

	DATE: 27-AUG-76	ENG: [Signature]	DATE: 27-AUG-76	TITLE: 32K SENSE/INHIBIT (G116)
	DATE: 27-AUG-76	DATE: 27-AUG-76	DATE: 27-AUG-76	DATE: 27-AUG-76
FIRST USED ON OPTION/MODEL: MB20		NEXT HIGHER ASSEMBLY: B-DD-MB20-0		SIZE CODE: D BS
NUMBER: MB20-0-SINN		REV.:		



REV. 1
MB20-0-SINP
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REV.

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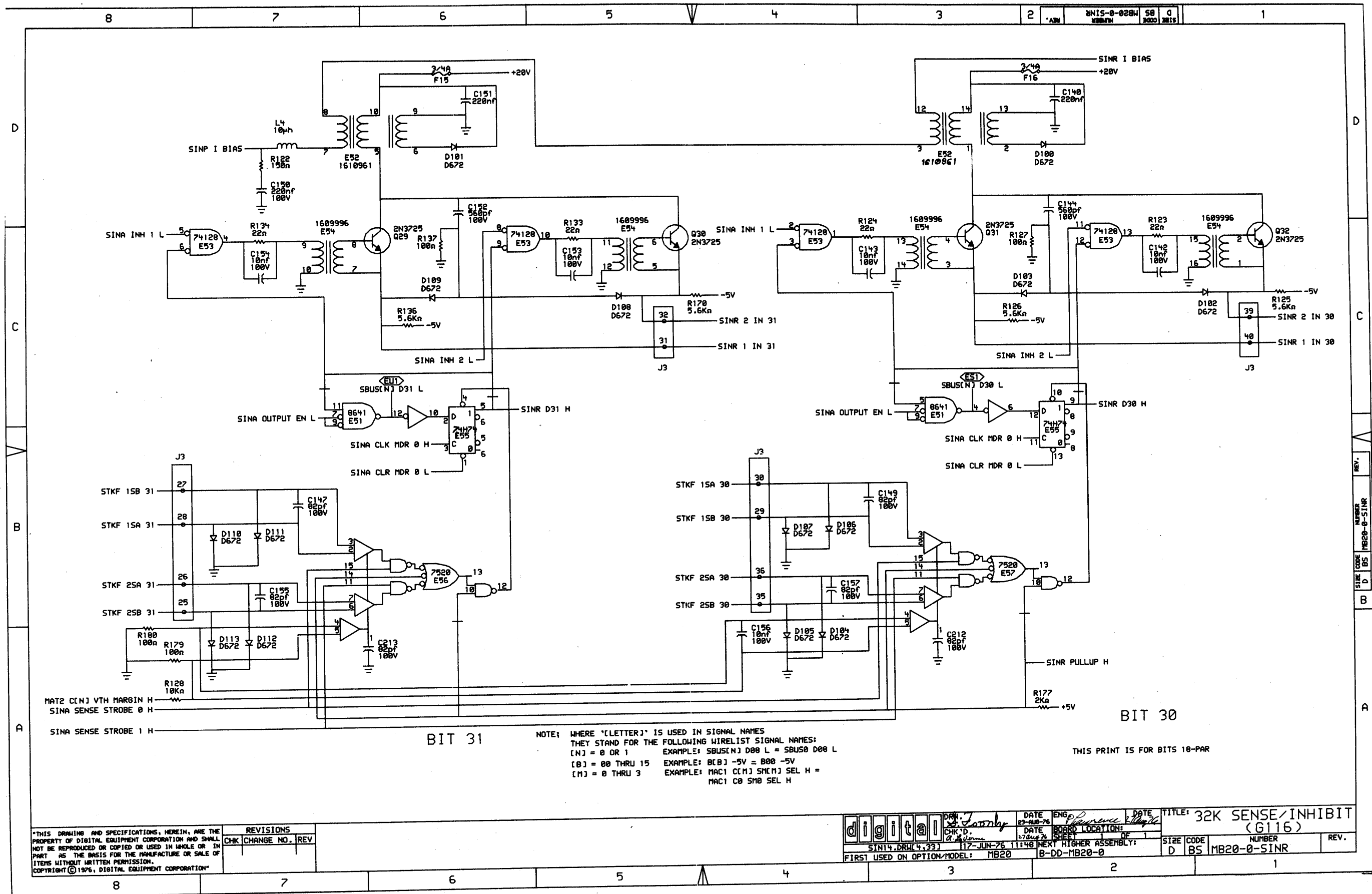
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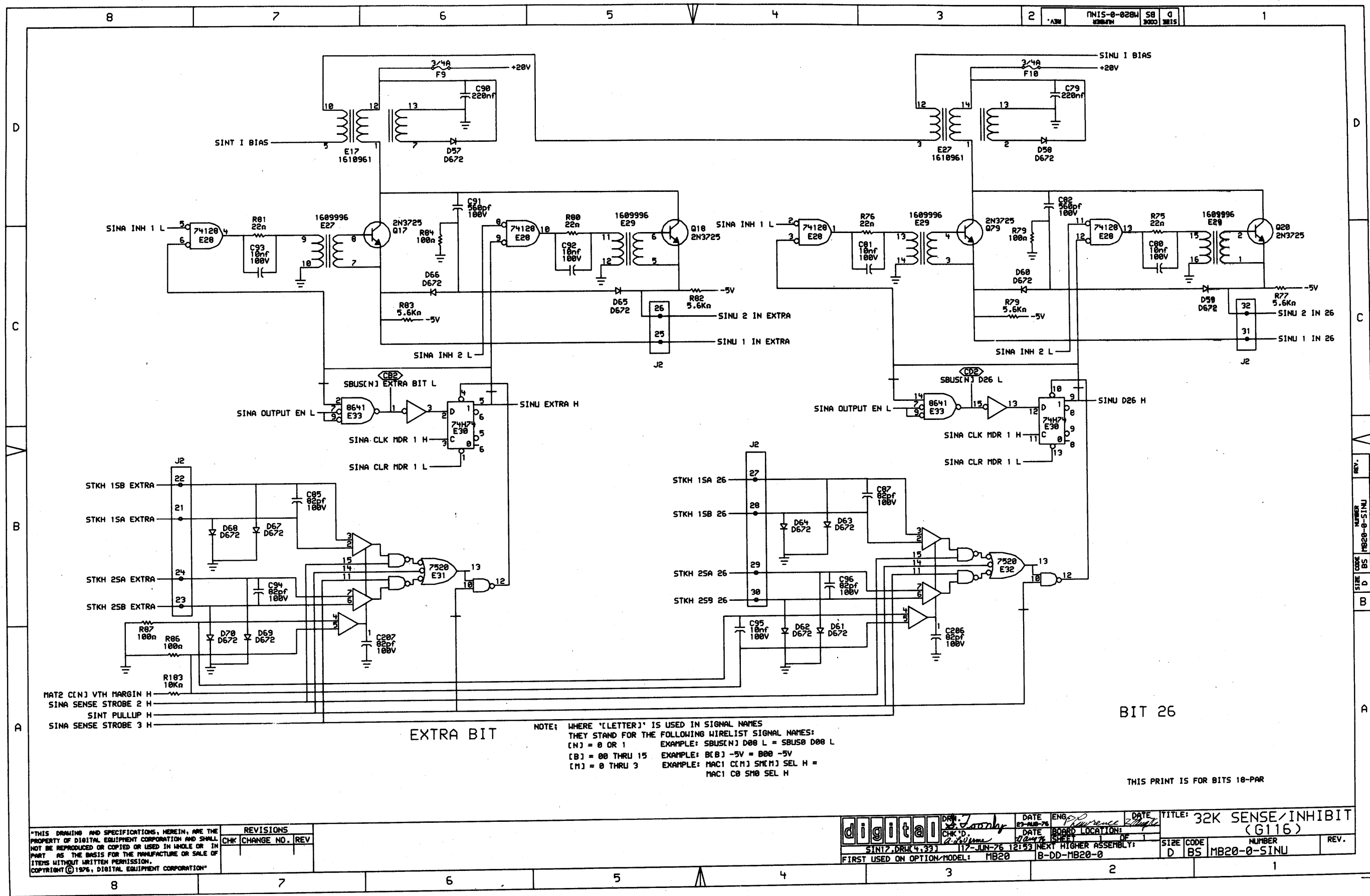
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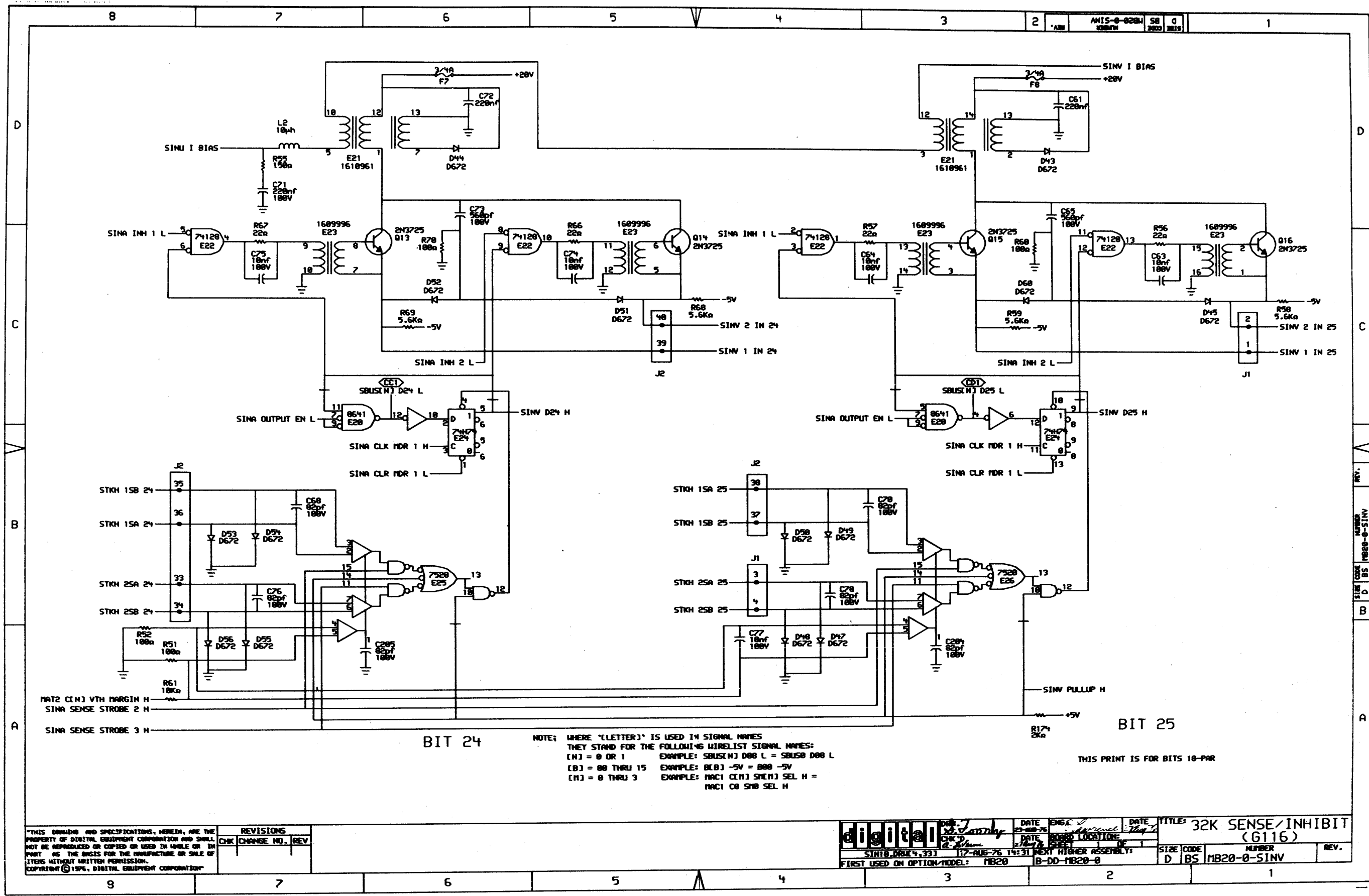


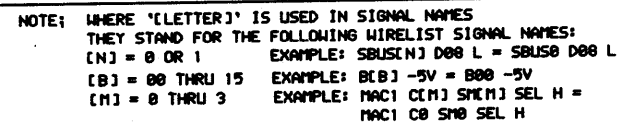
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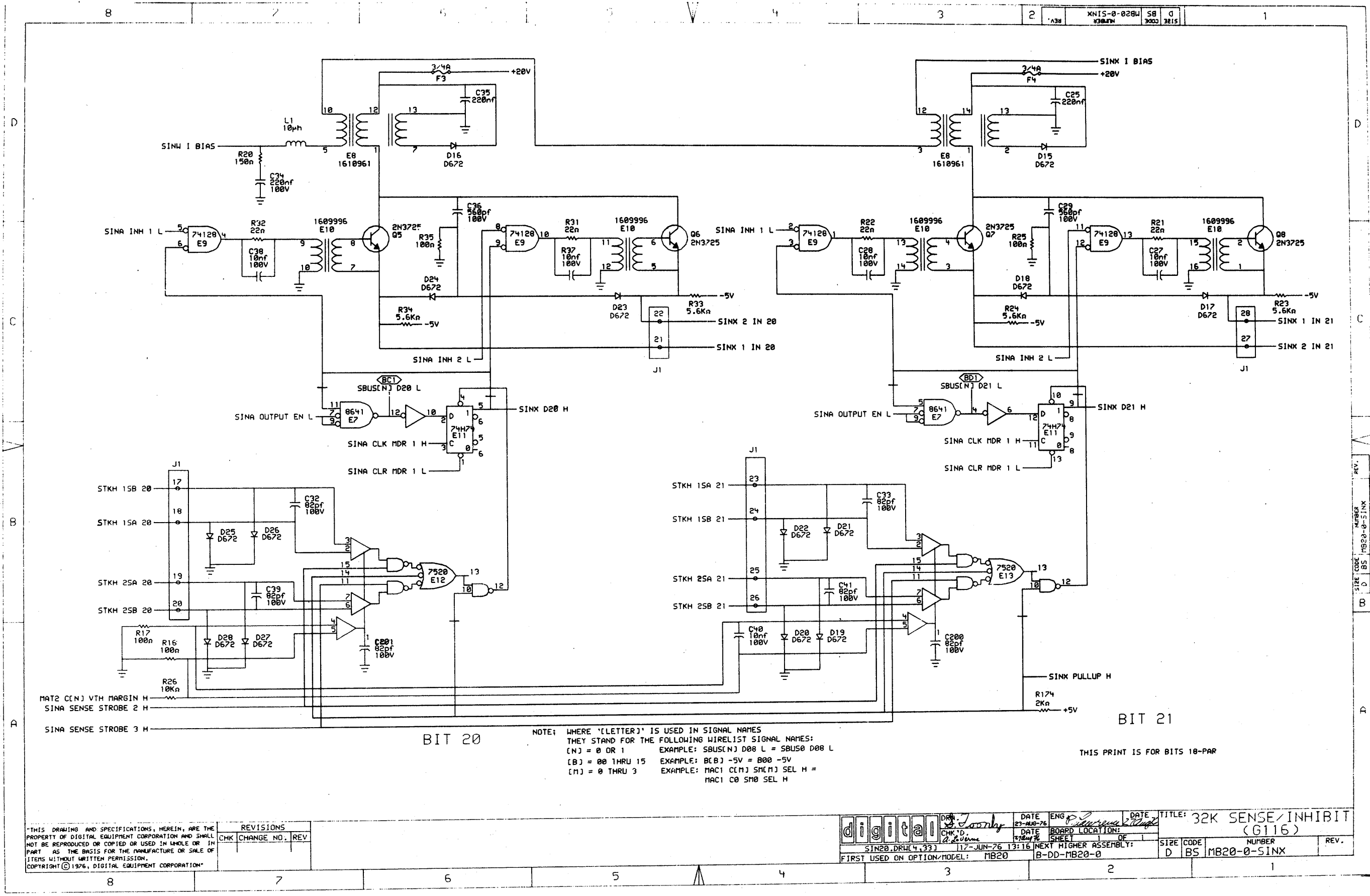
REVISIONS	
CHK	CHANGE NO. REV

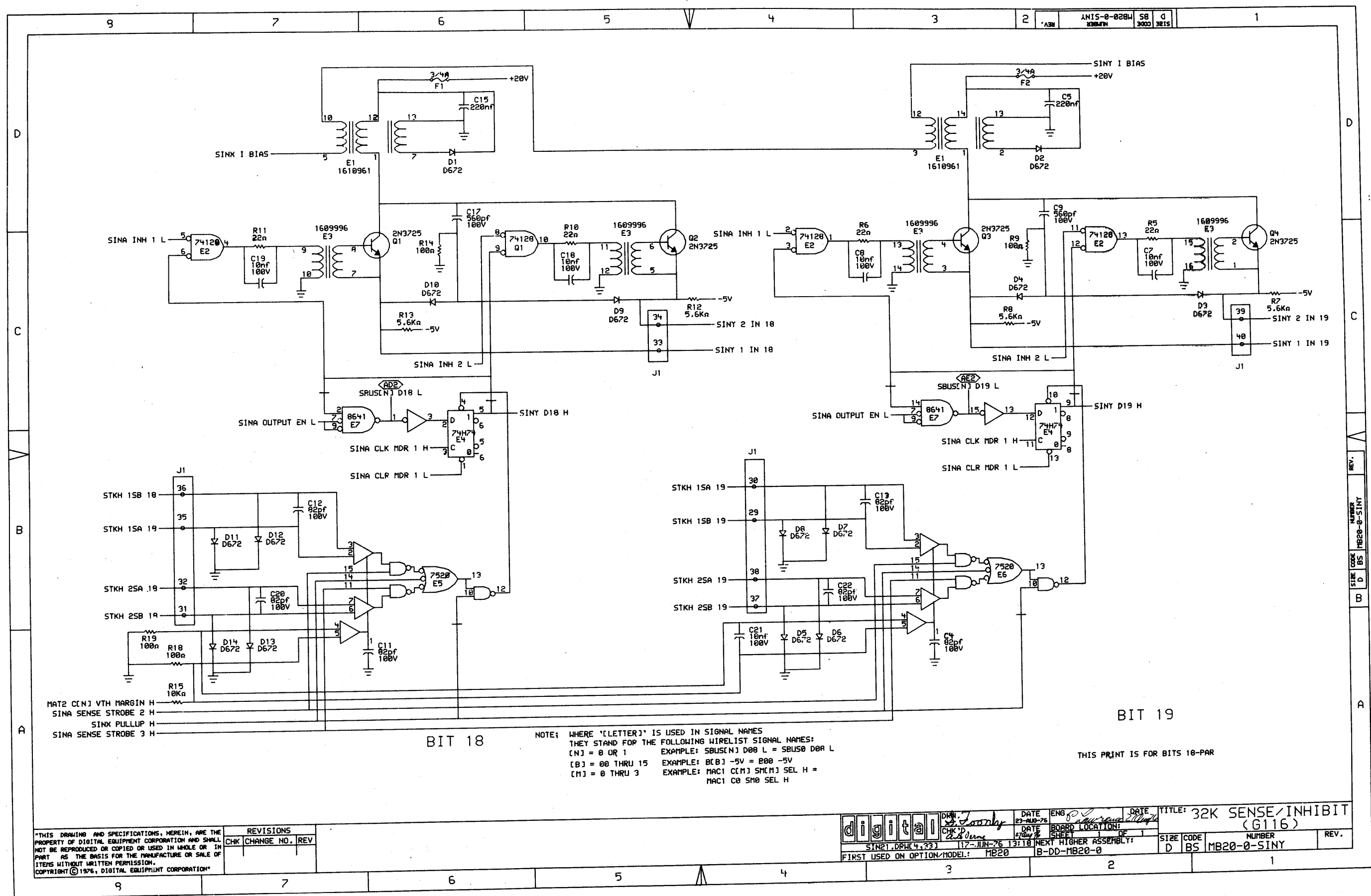
digital	DATE	ENG	DATE	TITLE: 32K SENSE/INHIBIT (G116)
	117-JUN-76	117-JUN-76	117-JUN-76	
SIN14.DRW 4.33	117-JUN-76	117-JUN-76	117-JUN-76	
FIRST USED ON OPTION/MODEL: MB20	117-JUN-76	117-JUN-76	117-JUN-76	
SIZE	CODE	NUMBER	REV.	
D	BS	MB20-0-SINR		

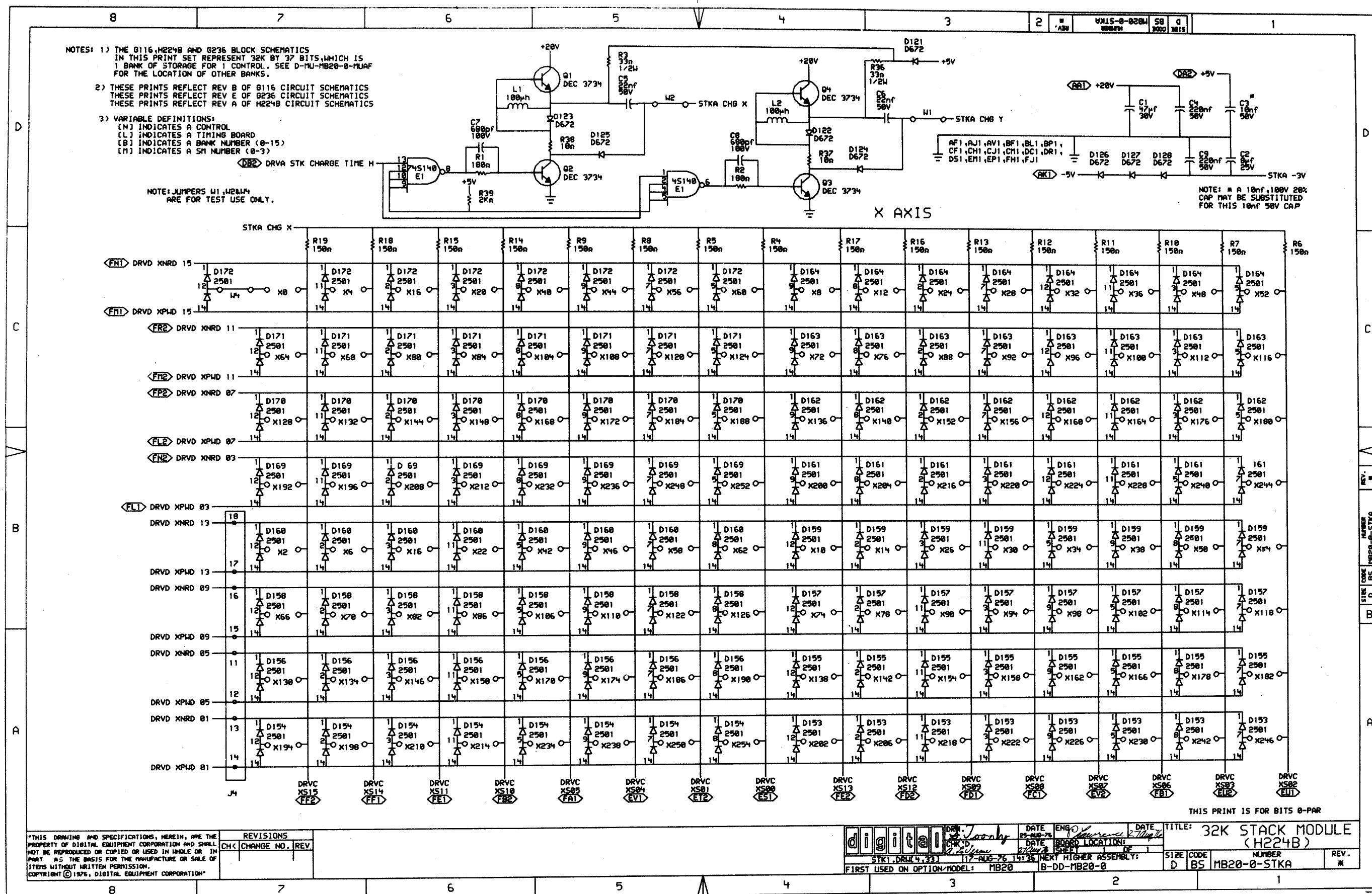


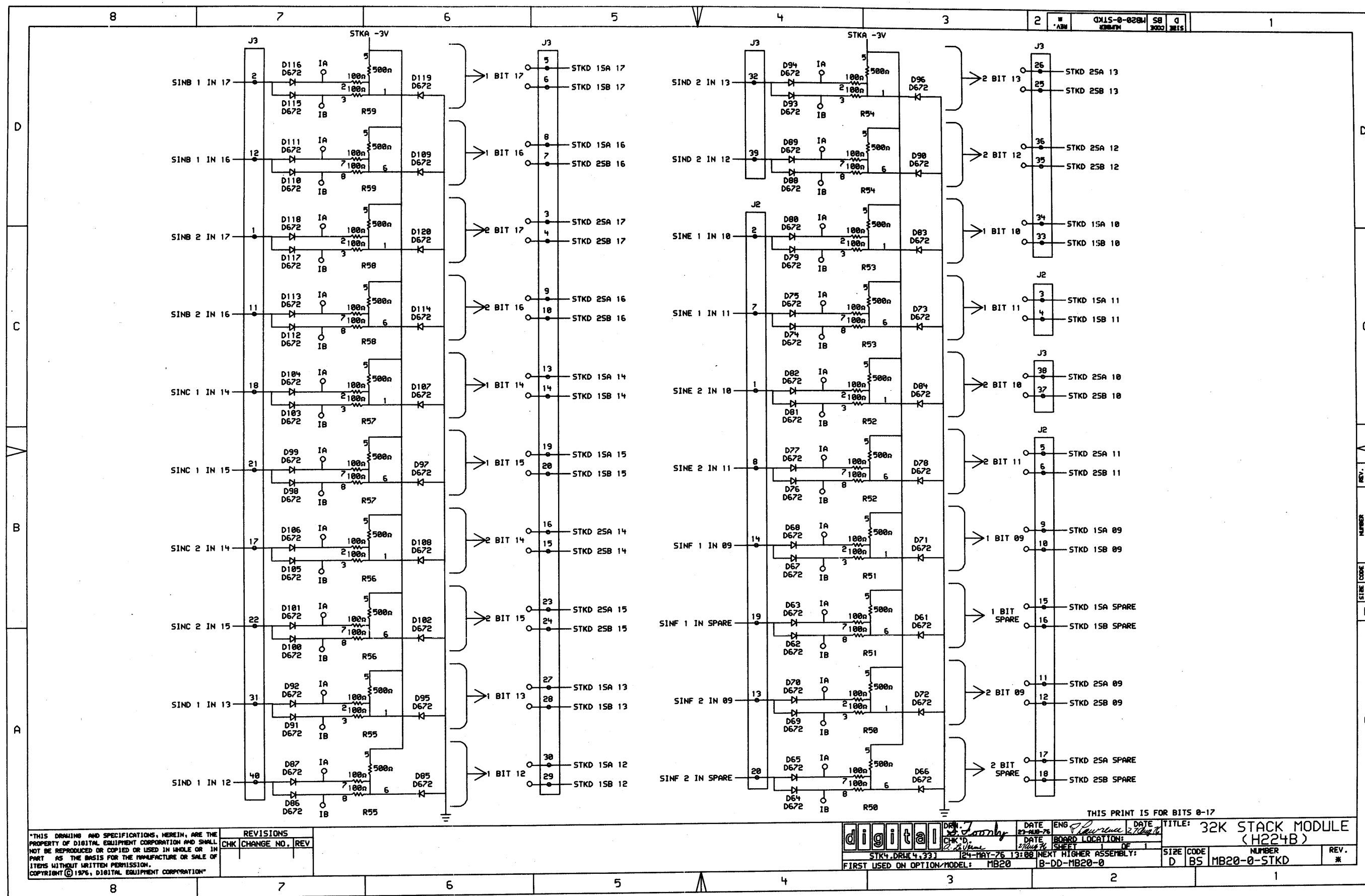


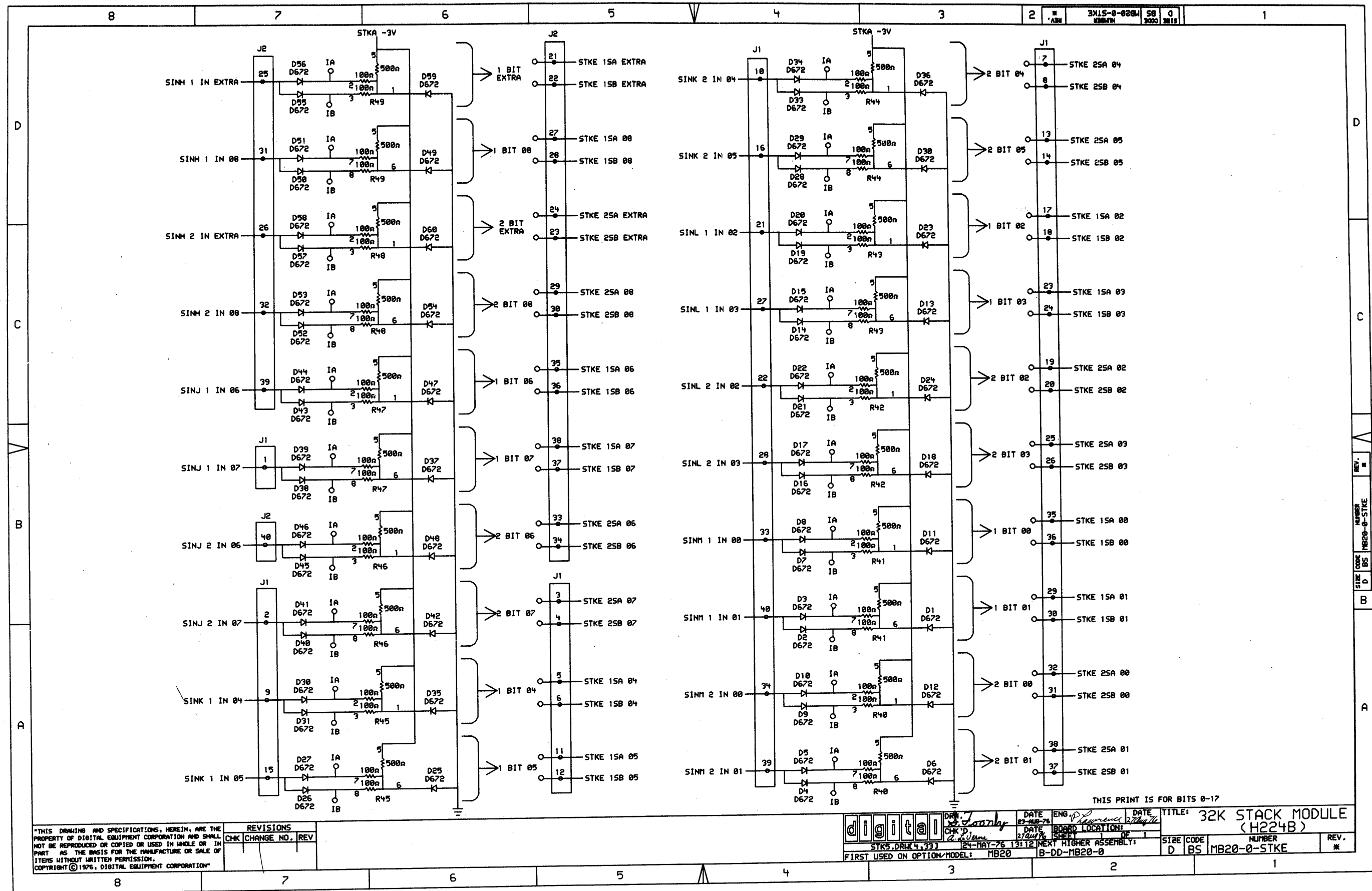


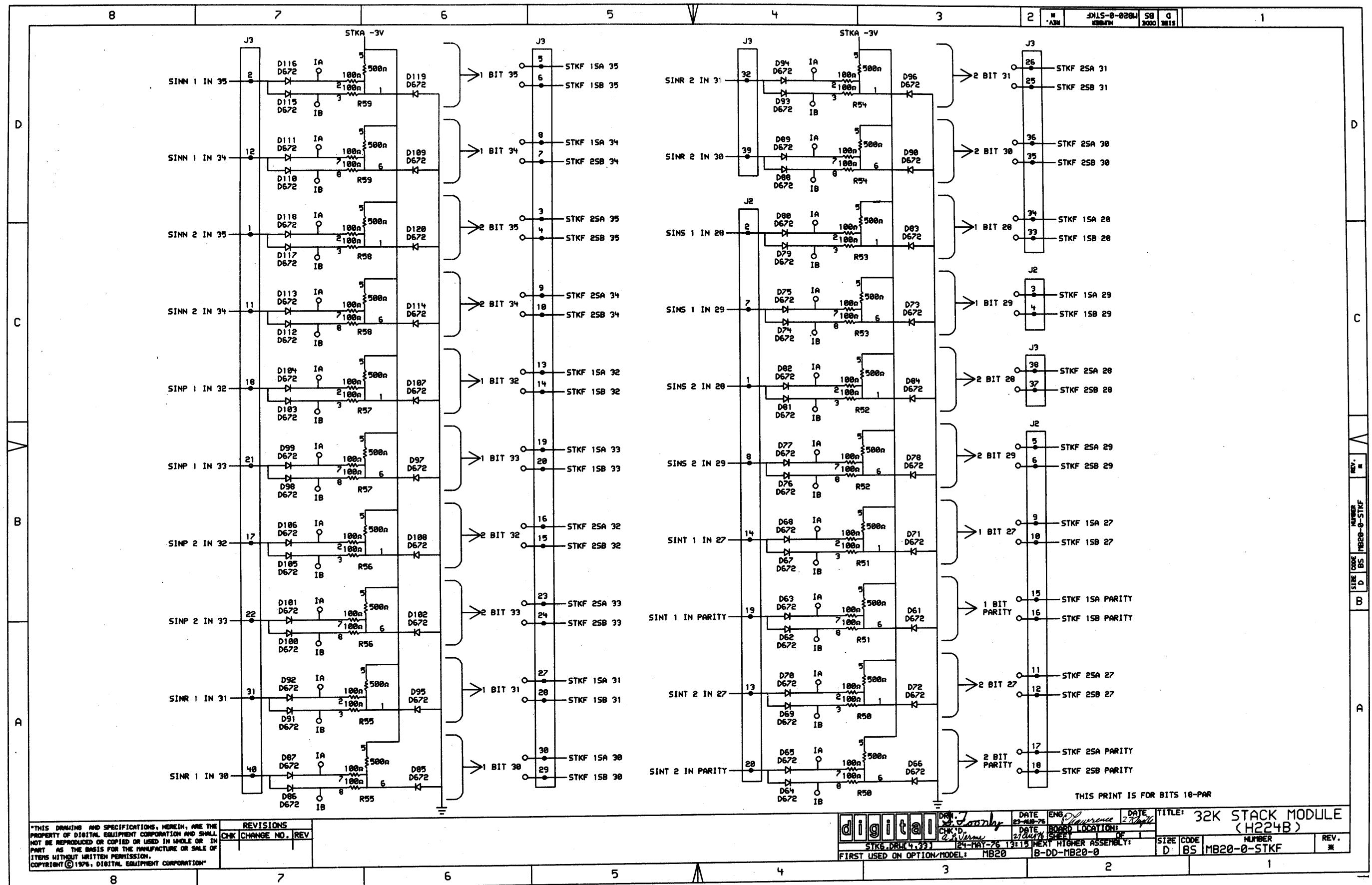






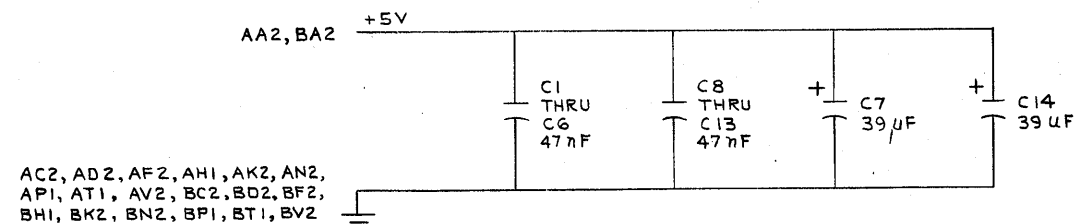
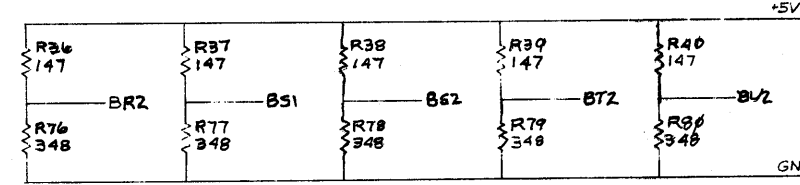
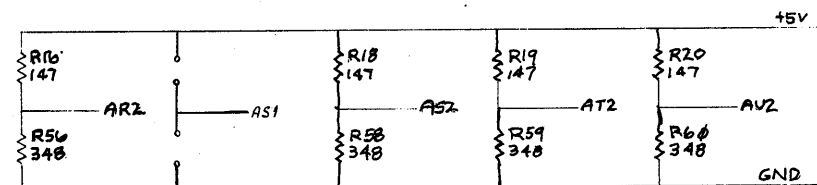
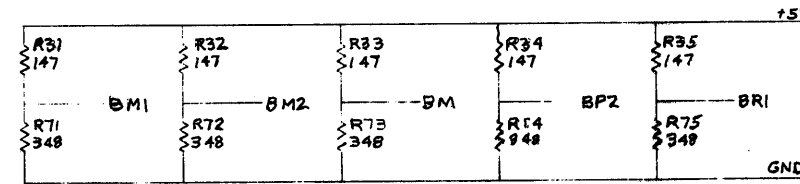
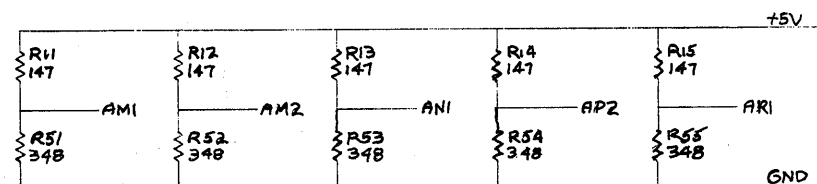
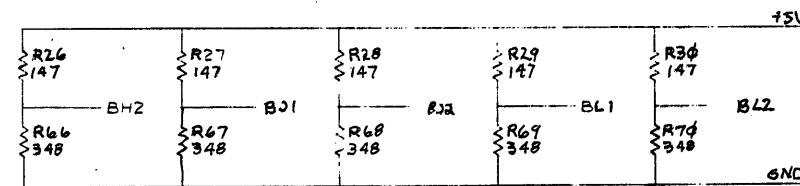
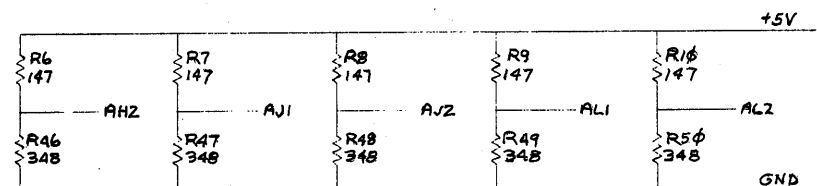
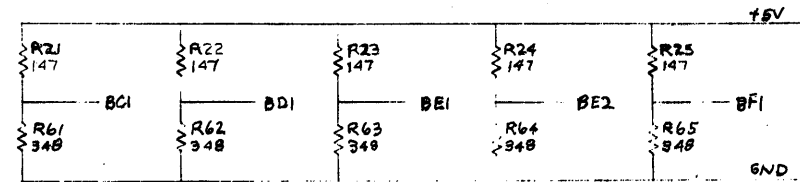
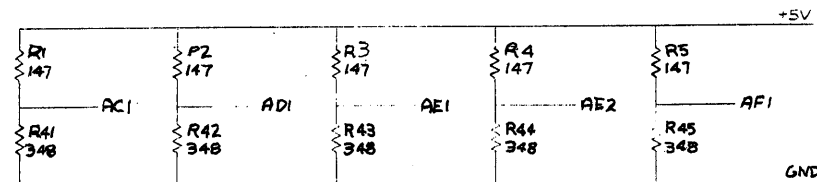






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NOTE: ALL RESISTOR VALUES ARE IN OHMS,
UNLESS OTHERWISE SPECIFIED.



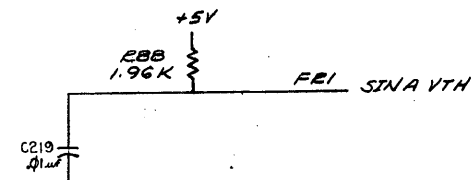
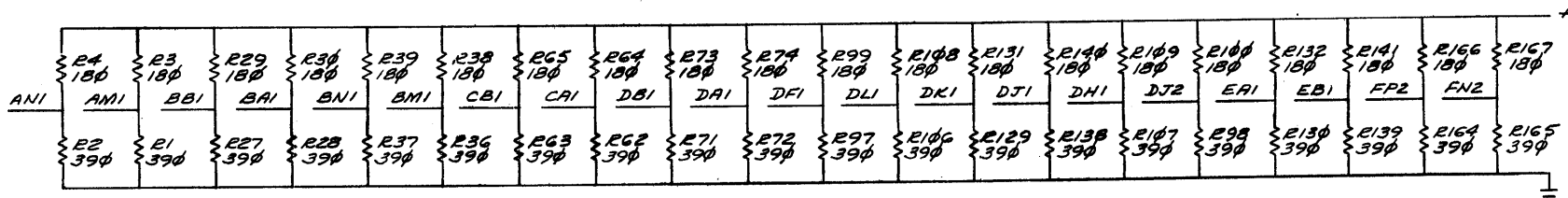
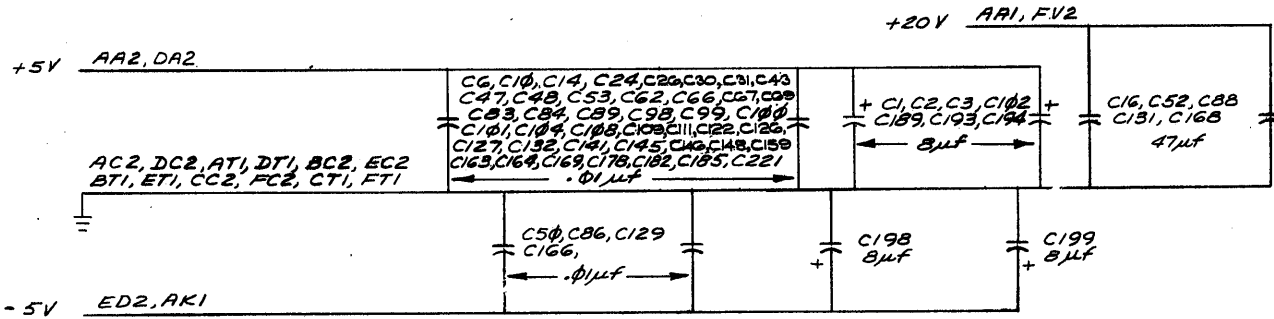
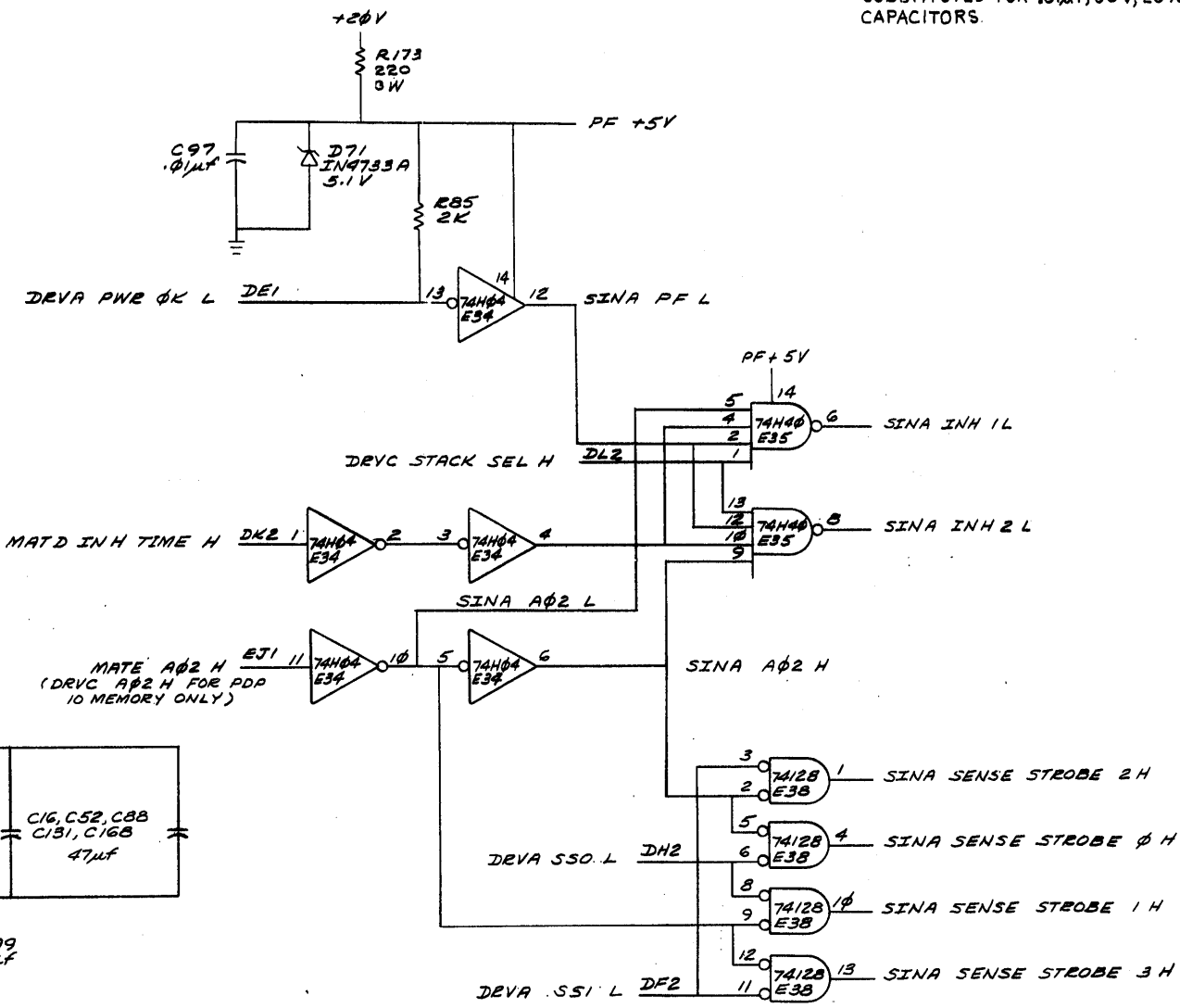
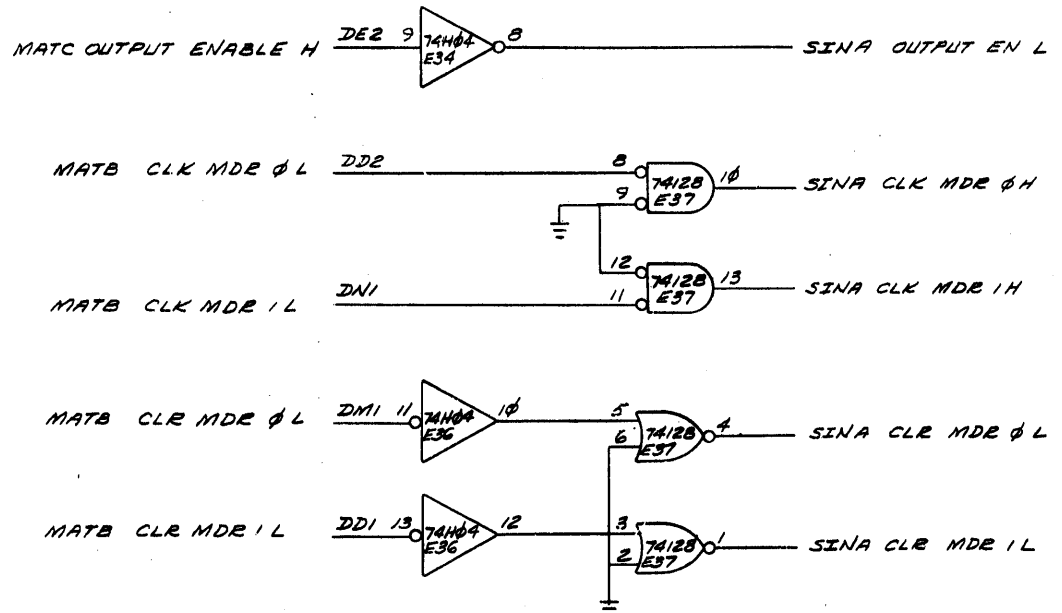
REVISIONS		
CHK	CHANGE NO	REV.

FIRST USED ON OPTION/MODEL			QTY.	DESCRIPTION	PART NO.	ITEM NO.
MG10			PARTS LIST			
DIMENSIONAL TOLERANCE			DRM.	DATE	digital	
DIMENSIONS ARE MILLIMETERS INCHES			CHKD.	DATE		
UNLESS OTHERWISE SPECIFIED			ENG.	DATE		
MILLIMETERS	INCHES	ANGLES	TITLE		SBUS TERMINATOR	
X,XX = ±0.10	XXX = ±.006	30° 30'	PROL ENG.	DATE		
XX = ±0.6	XX = ±.02		PROD.	DATE		
X = ±.2	X = ±.1					
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		NEXT HIGHER ASSY.			
	MATERIAL	B-DD-M9005-0		SIZE CODE	NUMBER	REV.
	FINISH	SCALE NONE		DCS	M9005-0-TRN1	
		SHEET 1 OF 1		DIST.		

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IC PIN LOCATION			
GND AND +5V ARE USUALLY PINS 1 & 14 RESPECTIVELY. EXCEPTIONS NOTED BELOW			
IC TYPE	GND	+5V	-5V
IC DEC 7520	9	16	8
IC DEC 8641	8	16	-

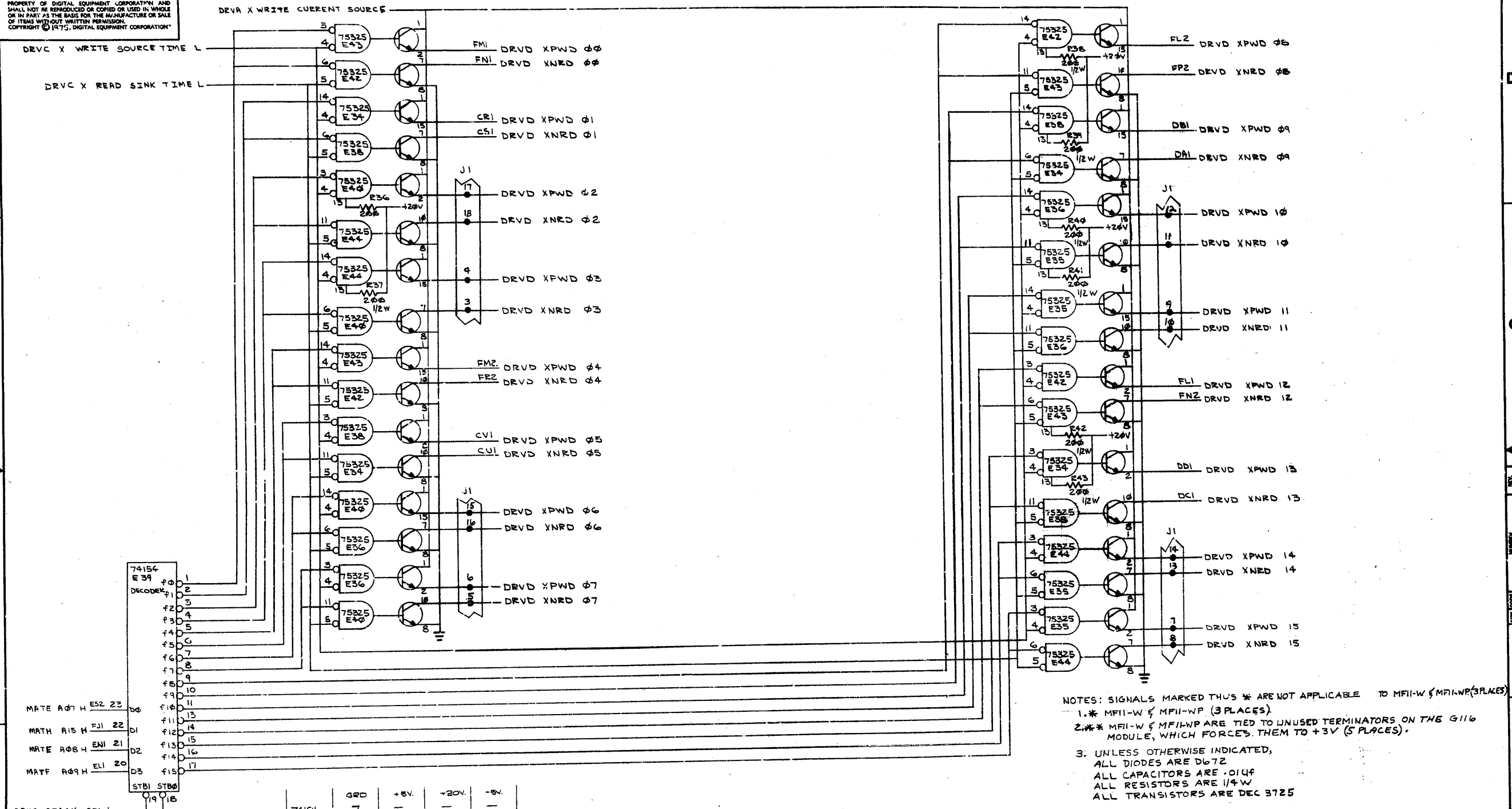
NOTE:
* .01μf, 100V, 20% CAPACITORS MAY BE SUBSTITUTED FOR .01μf, 50V, 20% CAPACITORS.



REV.	CHANGE NO.	DATE	BY	CHK
1	1	11/16/76	D. SMELSER	

DRN: D. SMELSER	FIRST USED ON	digital
CHK: D. SMELSER	TITLE	32K SENSE/INHIBIT (SINA)
ENG: D. SMELSER	SCALE	D CS G116-0-1
PROJ. ENG: D. SMELSER	SHEET	1 OF 1
PROD. ENG: D. SMELSER	DIST.	
NEXT HIGHER ASSY.		
D-UA-G116-0-0		

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NOTES: SIGNALS MARKED THUS * ARE NOT APPLICABLE TO MFII-W & MFII-WP (3 PLACES)
1. * MFII-W & MFII-WP (3 PLACES)
2. ** MFII-W & MFII-WP ARE TIED TO UNUSED TERMINATORS ON THE G116 MODULE, WHICH FORCES THEM TO +3V (5 PLACES).
3. UNLESS OTHERWISE INDICATED, ALL DIODES ARE D672
ALL CAPACITORS ARE .014F
ALL RESISTORS ARE 1/4 W
ALL TRANSISTORS ARE DEC 3725

REV	DATE	BY	CHK
1	10/1/75	D. SNELSER	D. SNELSER
2	10/1/75	D. SNELSER	D. SNELSER
3	10/1/75	D. SNELSER	D. SNELSER
4	10/1/75	D. SNELSER	D. SNELSER
5	10/1/75	D. SNELSER	D. SNELSER
6	10/1/75	D. SNELSER	D. SNELSER
7	10/1/75	D. SNELSER	D. SNELSER
8	10/1/75	D. SNELSER	D. SNELSER

IC TYPE	PN	PN	PN	PN
74121	7	1	1	1
741	1	1	1	1
75325	8	8	8	8
7442	8	8	8	8
74154	12	24	1	1

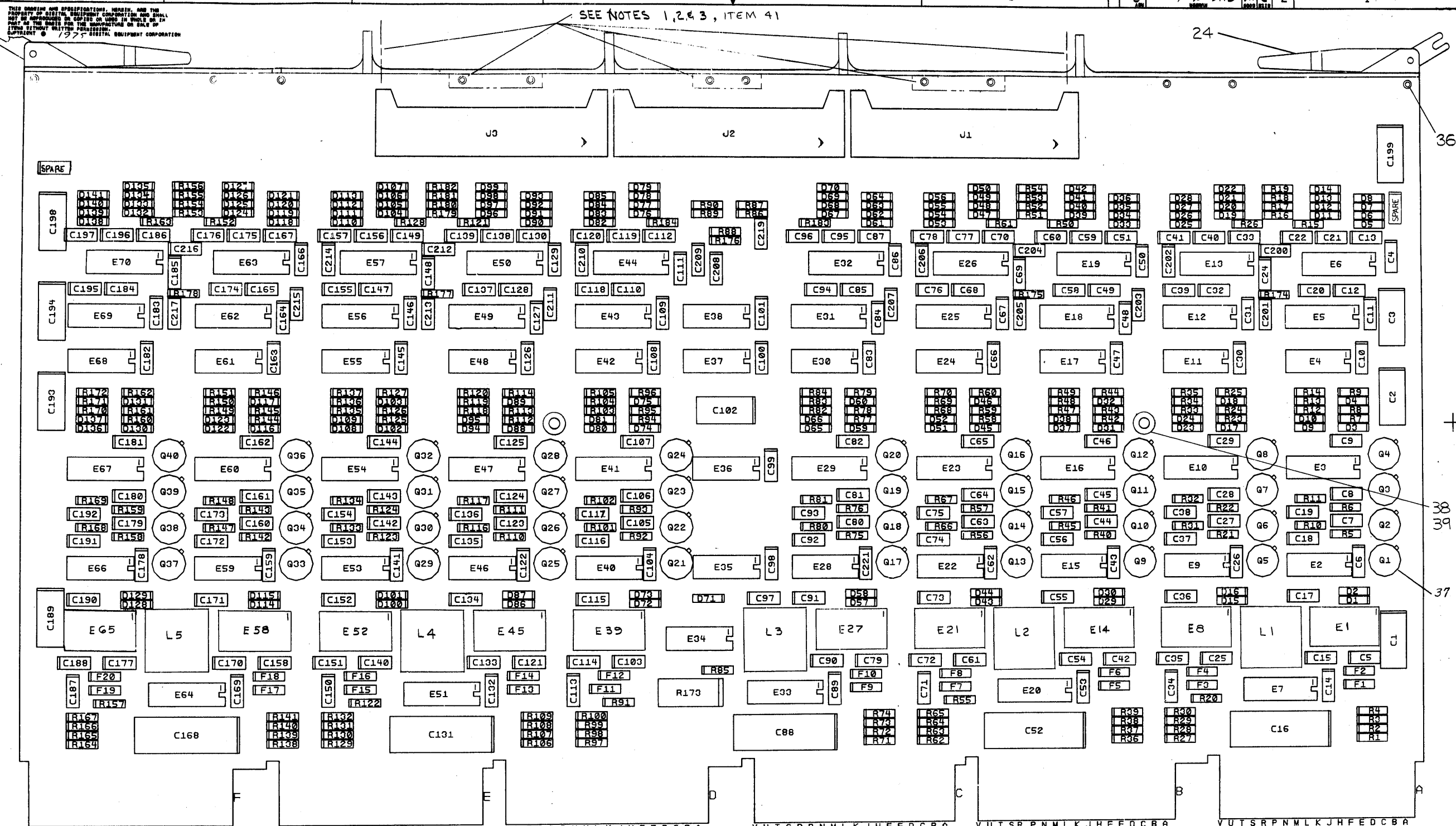
DRN. X. 6.30	10/1/75	FIRST USED ON	digital
CHK'D. 2.1	10/1/75	TITLE	32K X-Y DRIVE
ENG. 1	10/1/75	PROJ. ENG. 1	10/1/75
PROD. A	10/1/75	PROD. A	10/1/75
NEXT HIGHER ASSY.	D-UA-G236-0-0	SIZE CODE	D CS G236-0-1
SCALE	1	OF 4	
SHEET	1	OF 4	
DIST.			

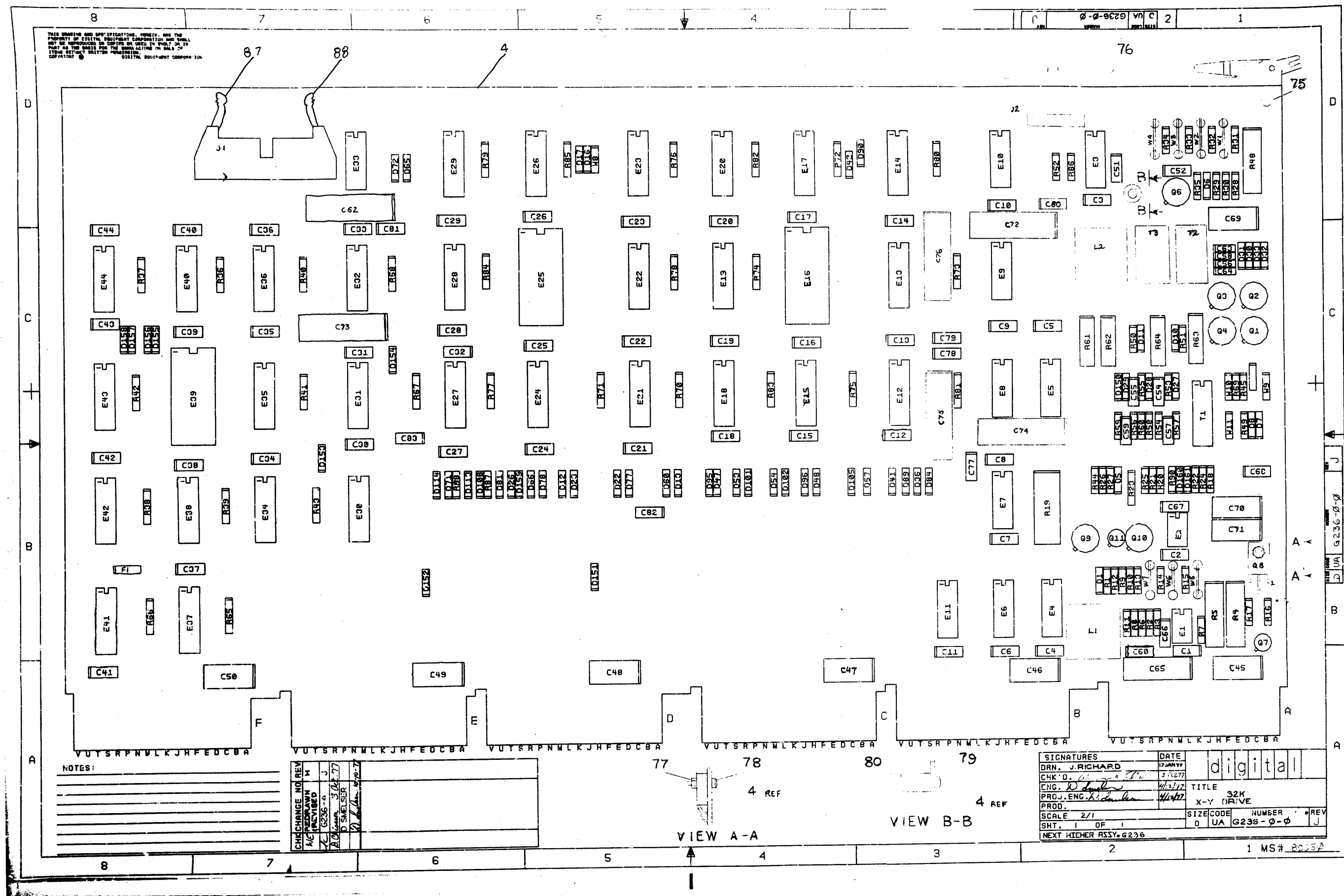
REV. J
D CS G236-0-1

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SEE NOTES 1, 2, 3, ITEM 41

0-0-9115

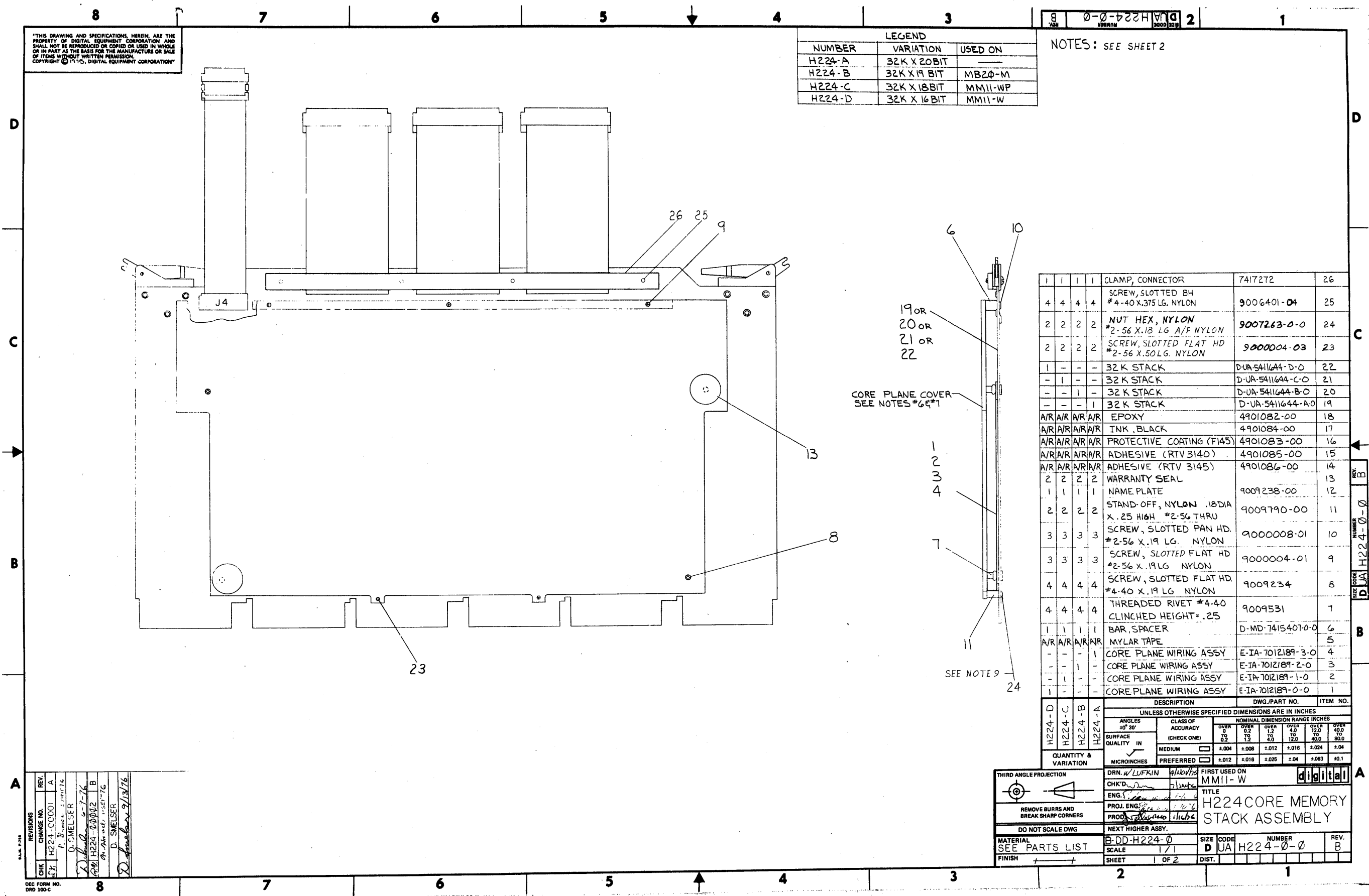




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LEGEND		
NUMBER	VARIATION	USED ON
H224-A	32K X 20BIT	
H224-B	32K X 19 BIT	MBZΦ-M
H224-C	32K X 18BIT	MMII-WP
H224-D	32K X 16BIT	MMII-W

NOTES: SEE SHEET 2

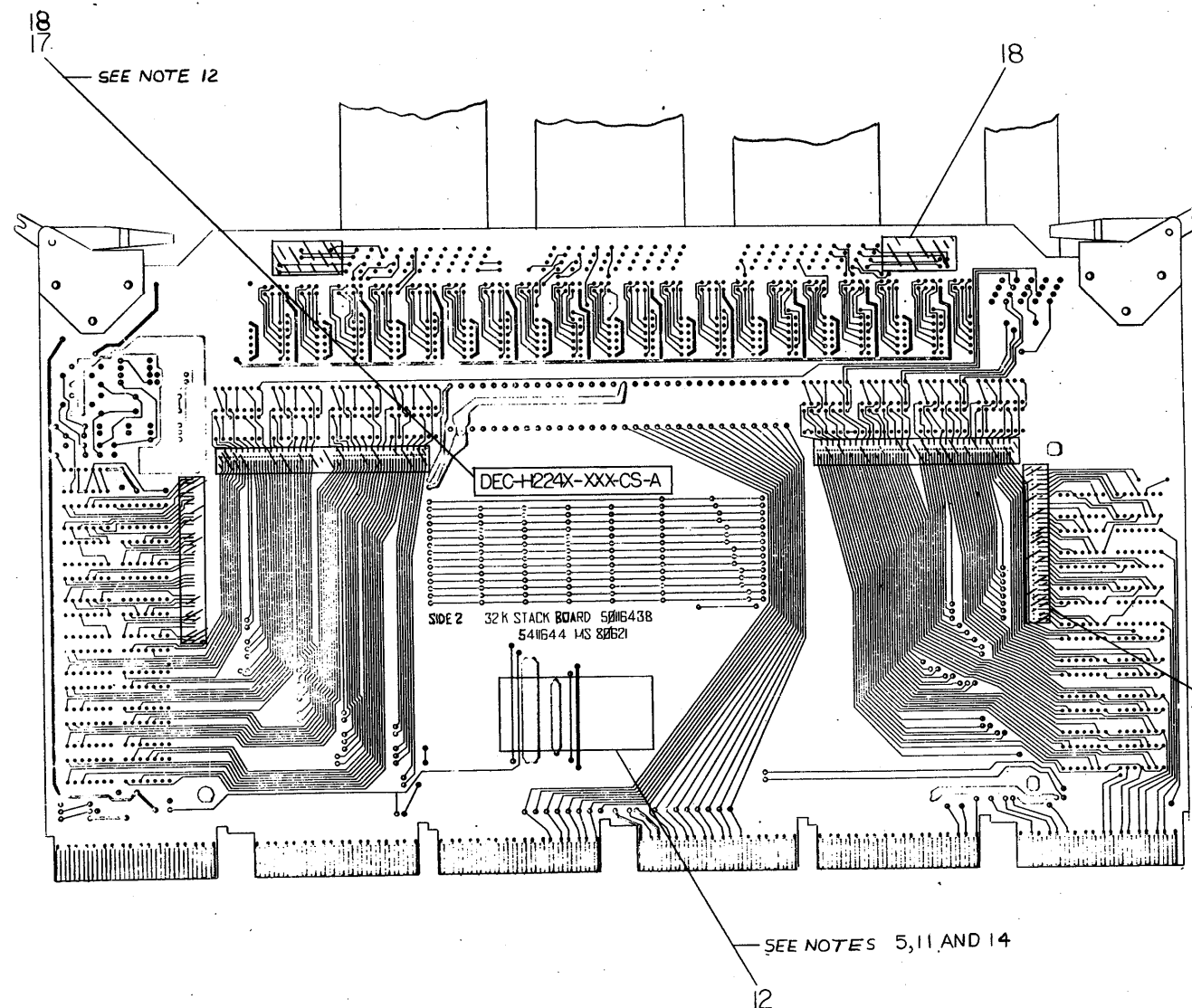


1	1	1	1	CLAMP, CONNECTOR	7417272	26
4	4	4	4	SCREW, SLOTTED BH #4-40 X.375 LG. NYLON	9006401-04	25
2	2	2	2	NUT HEX, NYLON #2-56 X.18 LG A/F NYLON	9007263-0-0	24
2	2	2	2	SCREW, SLOTTED FLAT HD #2-56 X.50 LG. NYLON	9000004-03	23
1	-	-	-	32 K STACK	D-UA-5411644-D-0	22
-	1	-	-	32 K STACK	D-UA-5411644-C-0	21
-	-	1	-	32 K STACK	D-UA-5411644-B-0	20
-	-	-	1	32 K STACK	D-UA-5411644-A-0	19
A/R	A/R	A/R	A/R	EPOXY	4901082-00	18
A/R	A/R	A/R	A/R	INK, BLACK	4901084-00	17
A/R	A/R	A/R	A/R	PROTECTIVE COATING (F145)	4901083-00	16
A/R	A/R	A/R	A/R	ADHESIVE (RTV 3140)	4901085-00	15
A/R	A/R	A/R	A/R	ADHESIVE (RTV 3145)	4901086-00	14
2	2	2	2	WARRANTY SEAL		13
1	1	1	1	NAME PLATE	9009238-00	12
2	2	2	2	STAND-OFF, NYLON .18 DIA X .25 HIGH #2-56 THRU	9009790-00	11
3	3	3	3	SCREW, SLOTTED PAN HD #2-56 X.19 LG. NYLON	9000008-01	10
3	3	3	3	SCREW, SLOTTED FLAT HD #2-56 X.19 LG NYLON	9000004-01	9
4	4	4	4	SCREW, SLOTTED FLAT HD #4-40 X.19 LG NYLON	9009234	8
4	4	4	4	THREADED RIVET #4-40 CLINCHED HEIGHT=.25	9009531	7
1	1	1	1	BAR, SPACER	D-MD-7415407-0-0	6
A/R	A/R	A/R	A/R	MYLAR TAPE		5
-	-	-	1	CORE PLANE WIRING ASSY	E-IA-7012189-3-0	4
-	-	-	1	CORE PLANE WIRING ASSY	E-IA-7012189-2-0	3
-	-	-	1	CORE PLANE WIRING ASSY	E-IA-7012189-1-0	2
1	-	-	-	CORE PLANE WIRING ASSY	E-IA-7012189-0-0	1

H224-D	H224-C	H224-B	H224-A	DESCRIPTION		DWG./PART NO.	ITEM NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES									
ANGLES 10° 30'		CLASS OF ACCURACY		NOMINAL DIMENSION RANGE INCHES					
SURFACE QUALITY IN		(CHECK ONE)		OVER 0 TO 0.2	OVER 0.2 TO 0.5	OVER 0.5 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0
				TO 0.2	TO 0.5	TO 1.2	TO 4.0	TO 12.0	TO 40.0
☒		MEDIUM ☐		±.004	±.008	±.012	±.016	±.024	±.04
		MICROINCHES		PREFERRED ☐		±.012	±.018	±.025	±.04
QUANTITY & VARIATION									
PROJECTION				FIRST USED ON				digital	
				MMII - W					
OVER BURRS AND SHARP CORNERS				TITLE				H224 CORE MEMORY STACK ASSEMBLY	
NOT SCALE DWG				NEXT HIGHER ASSY.					
PARTS LIST				B-DD-H224-0				SCALE 1/1	
				SIZE CODE				NUMBER	
				D UA				H224-0-0	
				SHEET 1 OF 2				REV. B	
				DIST.					

REVISIONS	CHANGE NO.	REV.
CHK	H224-CC001	A
D. SMELSER		
D. SMELSER 6-7-76		
D. SMELSER 6-7-76		
D. SMELSER 6-7-76		
D. SMELSER 6-7-76		
D. SMELSER 6-7-76		
D. SMELSER 6-7-76		
D. SMELSER 6-7-76		

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NOTES:

1. BOND CORE PLANE ASSEMBLY (ITEM #1, #2, #3, OR #4) TO THE STACK BOARD (ITEM #5) WITH ADHESIVE (ITEM #14).
2. INSTALL THREADED RIVETS (ITEM #7) THRU STACK BOARD AND CLINCH IN PLACE.
3. USE PROTECTIVE COATING (ITEM #16) TO COAT ALL MAGNETIC WIRE TERMINATIONS AFTER ELECTRICAL TEST. REF DWG NO E-IA-7012189-0-0 NOTE #12.
4. BOND S/I CABLE IN PLACE USING ADHESIVE (ITEM #15) AFTER ELECTRICAL TEST. REF DWG NO E-IA-7012189-0-0 NOTE #12.
5. BOND X & Y DRIVE LOOPS IN PLACE WITH ADHESIVE (ITEM #15). REF DWG NO E-IA-7012189-0-0 NOTE #11.
6. SCREW SPACER BAR TO CORE PLANE COVER WITH #2-56 SCREWS (ITEM #9).
7. CLOSE THE CORE PLANE COVER AND SECURE WITH #4-40 SCREWS (ITEM #8).
8. INSTALL THREADED STAND-OFF (ITEM #11) AND SECURE THRU COVER WITH #2-56 SCREWS (ITEM #23).
9. INSTALL #2-56 NUT (ITEM #24) 2 PLACES ON SIDE #2. CUT OFF #2-56 SCREWS (ITEM #23) FLUSH WITH #2-56 NUT.
10. INSTALL #2-56 SCREWS (ITEM #10) 3 PLACES ON SIDE #2 (BACK SIDE) OF STACK BOARD.
11. APPLY NAME PLATE (ITEM #12) TO SIDE #2 OF THE STACK BOARD APPROXIMATELY WHERE SHOWN.
12. LABEL STACK BOARD (ITEM #5) ON SIDE #2 WITH THE DEC PART NUMBER, SEQUENTIAL SERIAL NUMBER USING INK (ITEM #17) AND EPOXY (ITEM #18). EXAMPLE: H224-D-001.
13. PLACE WARRANTY SEALS (ITEM #13) OVER SCREW HEADS AS SHOWN.
14. CS REVISION IS THE MIDDLE LETTER OF THE SERIAL # ON THE NAME PLATE.

REVISIONS		
CHK	CHANGE NO	REV

TITLE H224 CORE MEMORY STACK ASSEMBLY		SIZE CODE D UA	NUMBER H224-0-0	REV. B
SCALE NONE	SHEET 2 OF 2	DIST.		

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NOTES:
1. FOR DRAWING DIRECTORY, REFER TO: B-DD-M9005-0

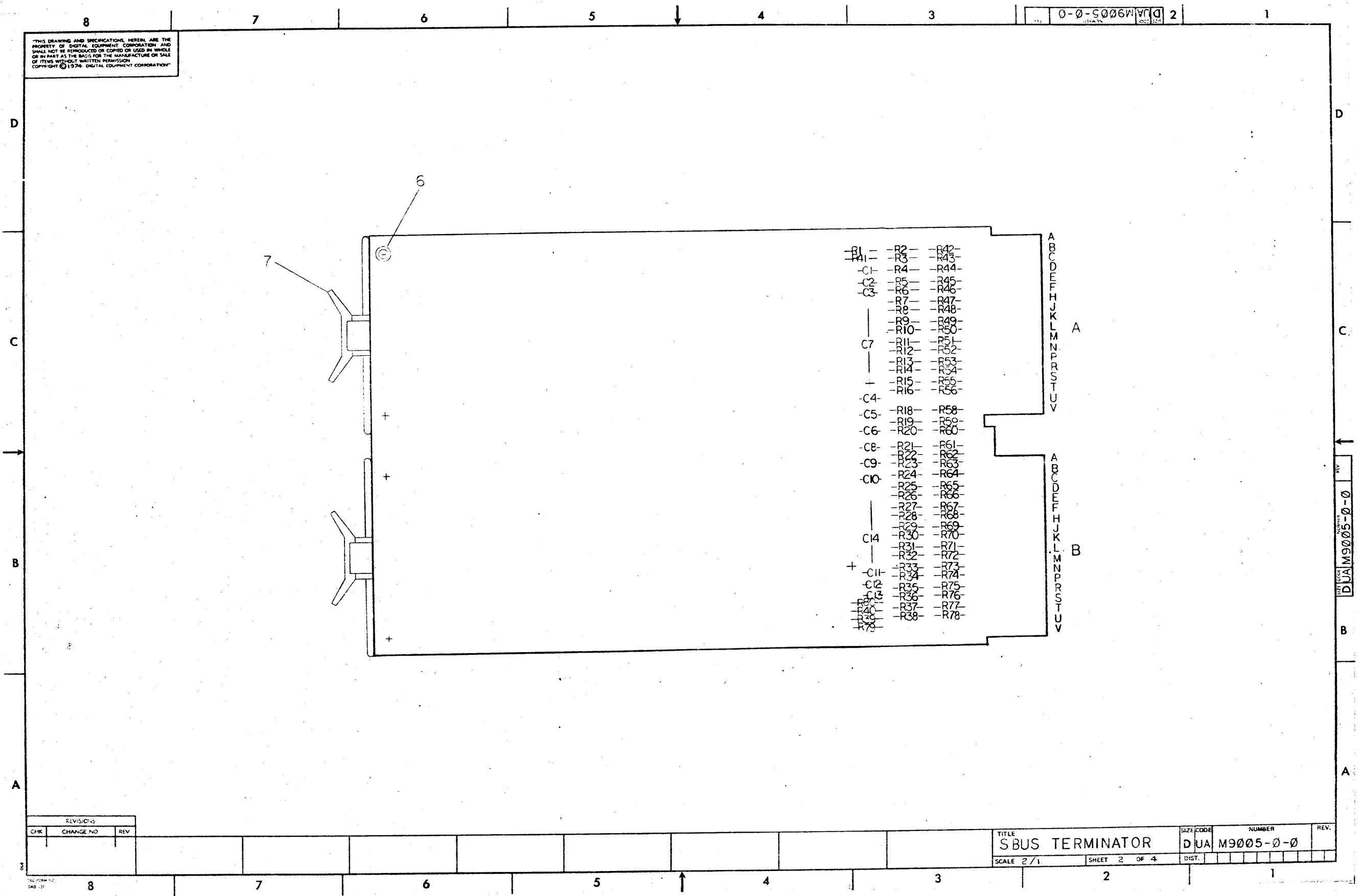
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCHED CIRCUIT BOARD	5010683	1
2	C7, C14	CAP. 39uf 10% 10V	1000076	2
12	C1 THRU C6, C8 THRU C13	CAP. 47pf 10V	1009878	3
39	R1 THRU R16, R18 THRU R40	RES. 147 1% 1/4W	1302874	4
39	R41 THRU R56, R58 THRU R80	RES. 348 1% 1/4W	1304858	5
4		EYELET (HANDLE)	9006732	6
2		HANDLE, FLIP CHIP (MAGENTA)	9008337-6	7

FIRST USED ON MG10				PARTS LIST					
ETCH BOARD REV									
DRN	3	MASB	DATE	10/31/70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
CHKD.	3	DATE	11/1/74						
ENG.	3	DATE	11/1/74						
PROJ. ENG.	3	DATE	11/1/74						
PROD.	3	DATE	11/1/74						
NEXT HIGHER ASSY B-DD-M9005-0				TITLE SBUS TERMINATOR					
DEC NO.				EIA NO.	SCALE NONE		SIZE CODE	NUMBER	REV.
SHEET 1				OF 4	DIST.		DUA M9005-0-0		

BRUNING 40-107 15968

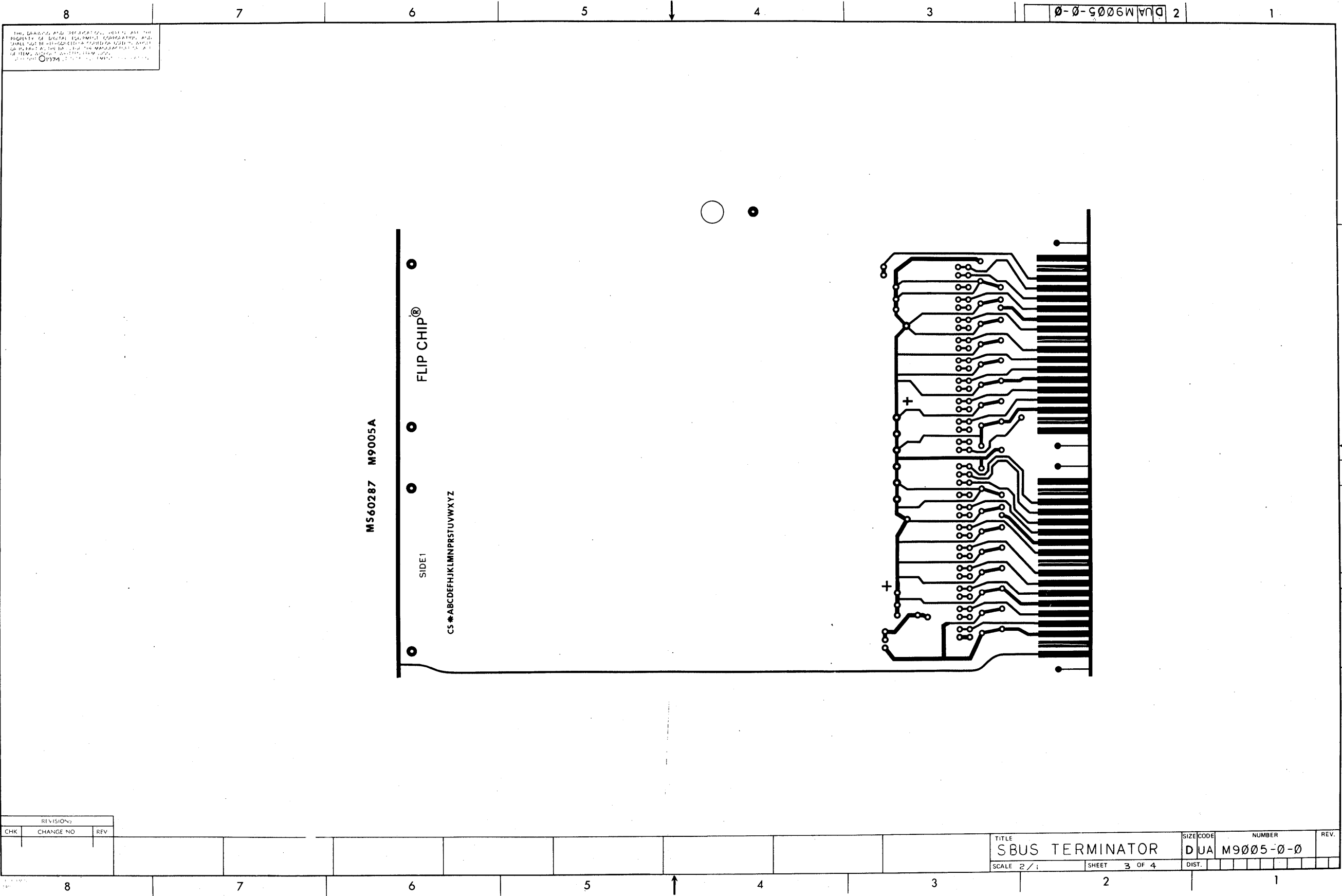
DEC FORM NO
DRD-135

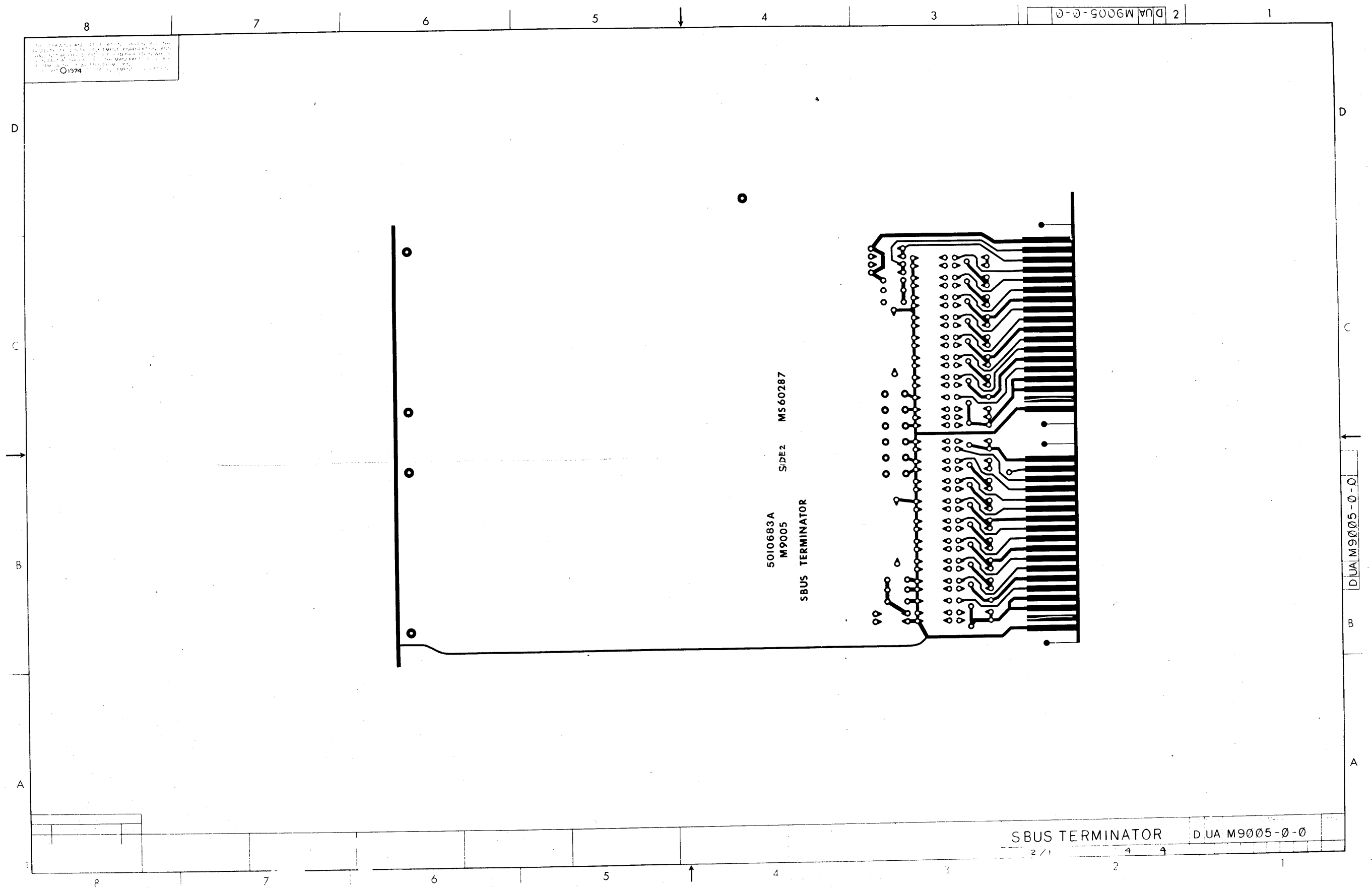
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REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER		REV.
SBUS TERMINATOR		D	UA	M9005-0-0		
SCALE 2/1		SHEET 2 OF 4		DIST.		





8	7	6	5	4	3	2	1
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0-0-9006W
1112174
2

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NOTES:

1. FOR DRAWING DIRECTORY, REFER TO B-DD-M9006-0
2. COVERS OF CONNECTORS ITEM 2 NOT ATTACHED UNTIL CABLE ASSEMBLY TIME, SEE D-UA-BC20C-D-0

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
1		ETCH CIRCUIT BOARD	5010723	1
2	JLJ2	CONN 40 PIN (3M) (SEE NOTE 2)	1210073	2
4		EYELET	9006732	3
2		HANDLE FLIP CHIP MAGENTA	9008337-06	4

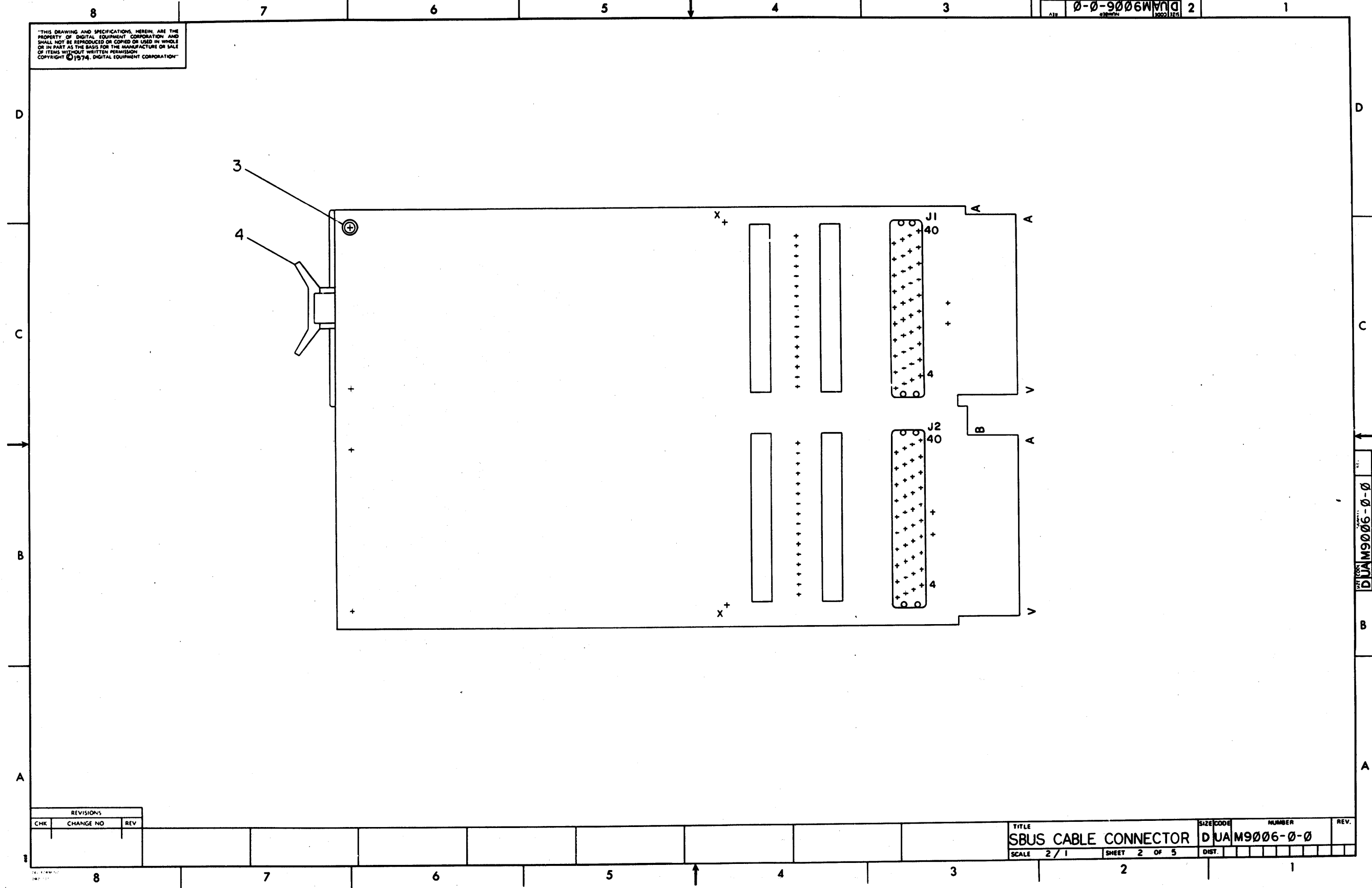
CHG	CHANGE NO.	REV	REVISIONS	DATE	BY	APP'D	TITLE

FIRST USED ON OPT/MOD MA20				PARTS LIST			
DRAWN BY	DATE	CHECKED BY	DATE	DESIGNED BY	DATE	DIGITAL EQUIPMENT CORPORATION BOSTON, MASSACHUSETTS TITLE SBUS CABLE CONNECTOR SIZE CODE: DUA NUMBER: M9006-0-0 REV. SCALE NONE SHEET 1 OF 5 DIST.	
NEXT HIGHER ASSY B-DD-M9006-0							
SEMICONDUCTOR CONVERSION CHART							

DEC FORM NO 1302-115
 REVISED JAN 1974

PART NO M9006-0-0
 REV 1

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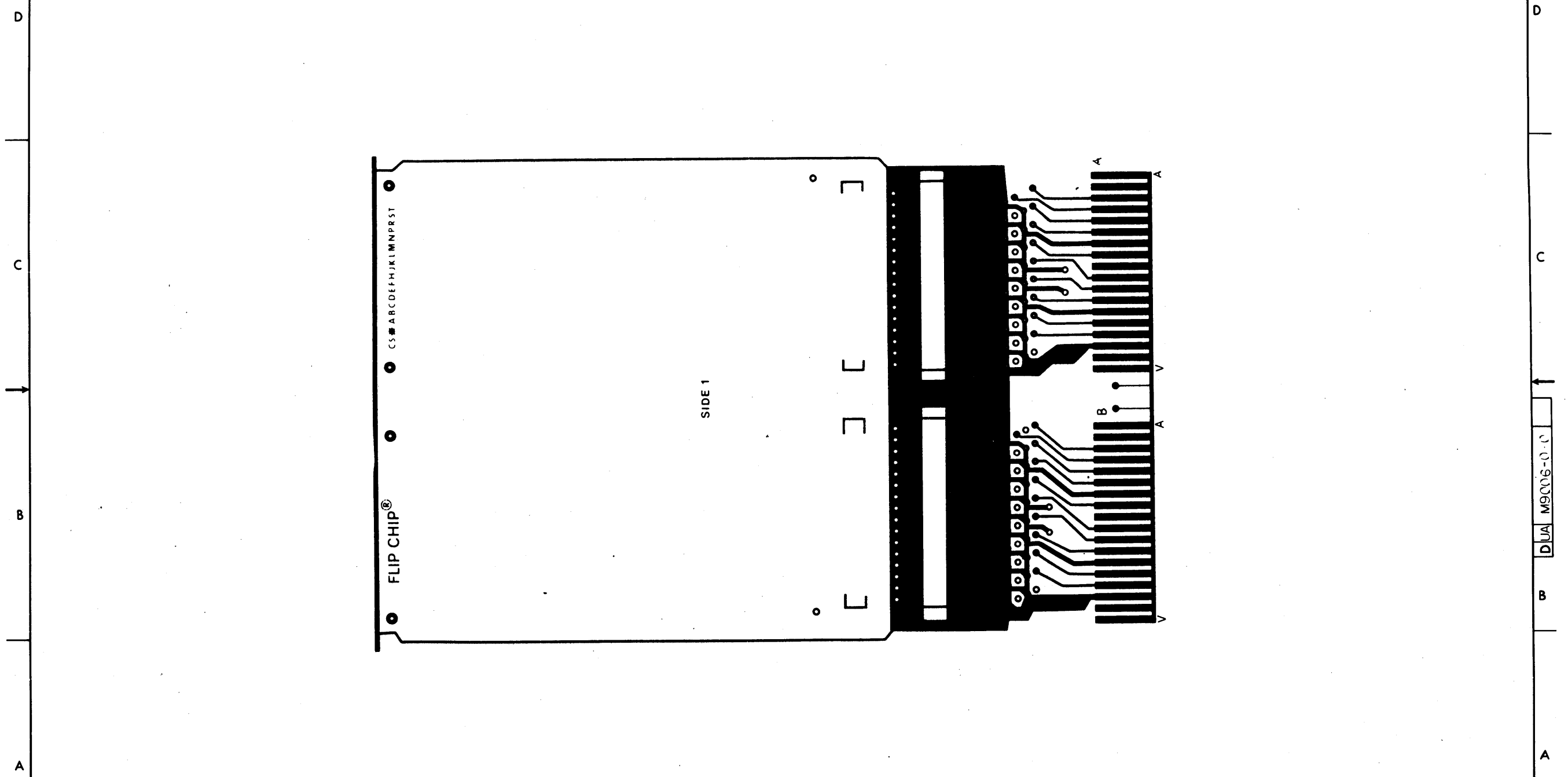


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
SBUS CABLE CONNECTOR		D	UAM9006-0-0	
SCALE	2 / 1	SHEET	2 OF 5	DIST.

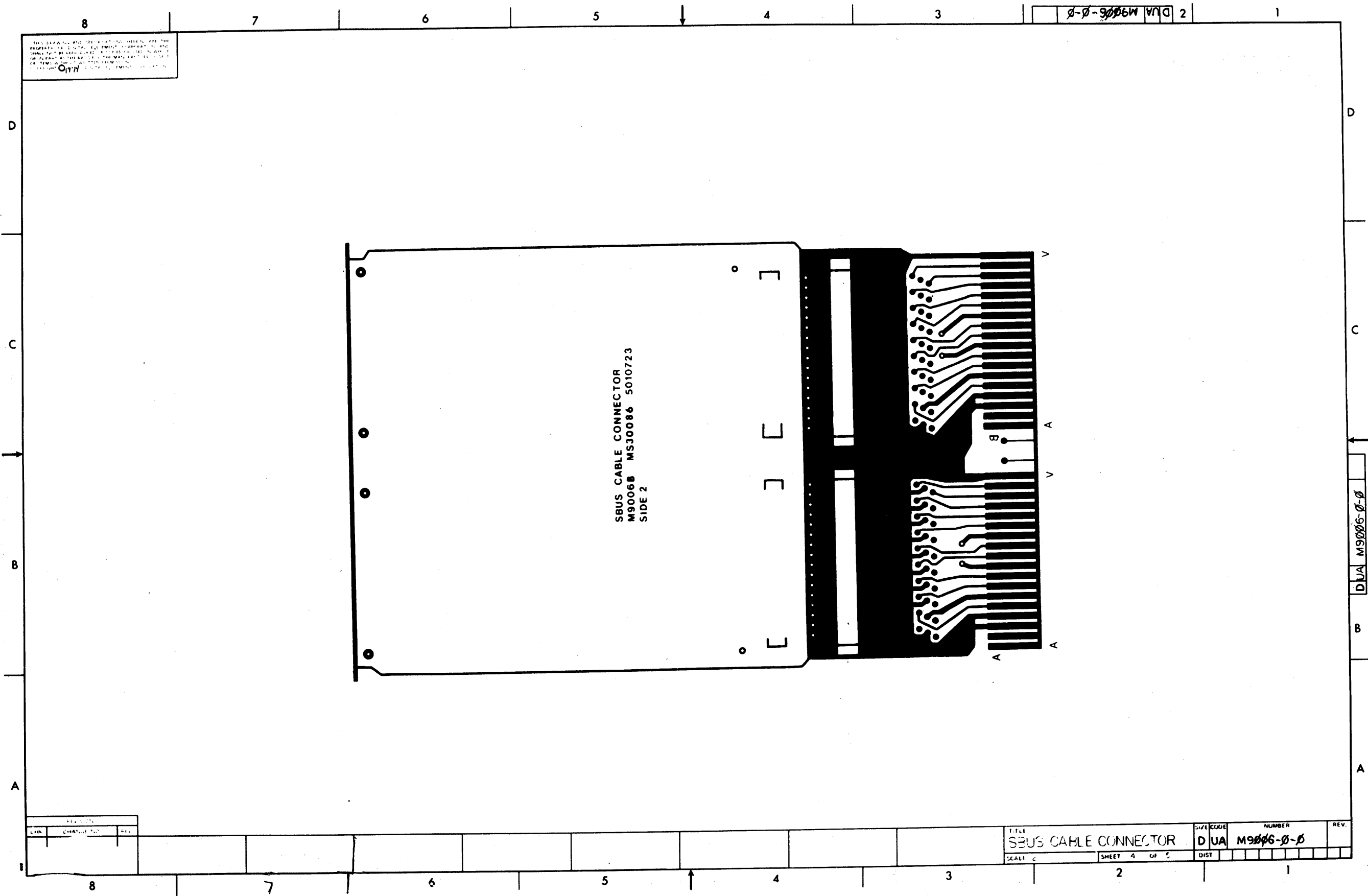
8 7 6 5 4 3 2 1

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REV. DATA		
CHK	CHANGE NO.	REV.

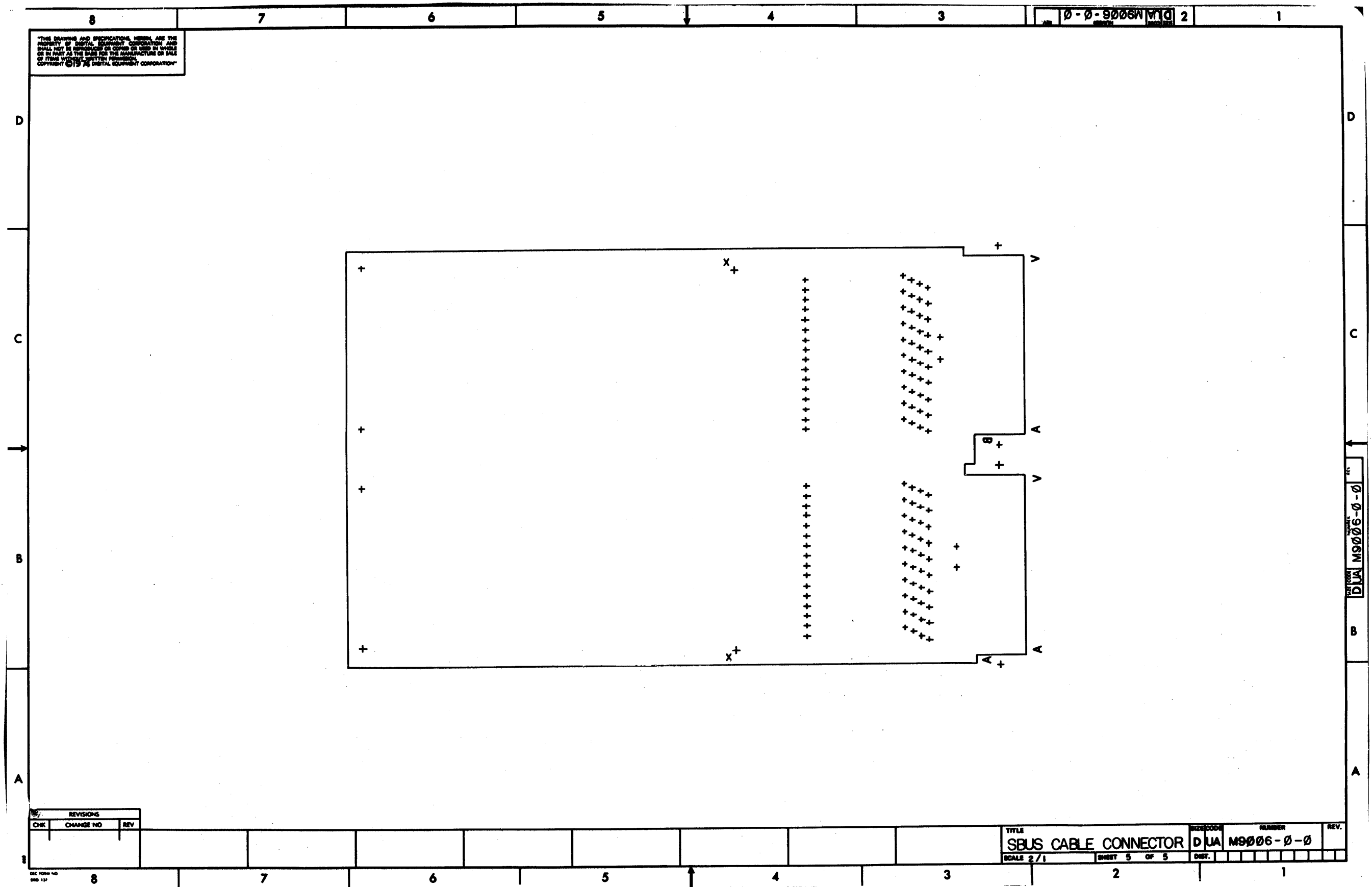
						SBUS CABLE CONNECTOR						D U A		M9006-0-0	
SCALE						SHEET 3 OF 5						DIST.			
8		7		6		5		4		3		2		1	



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SBUS CABLE CONNECTOR
M9006B MS30086 5010723
SIDE 2

TITLE			SIZE/CODE		NUMBER		REV.
SBUS CABLE CONNECTOR			D	UA	M9006-0-0		
SCALE: 1:1			SHEET 4 OF 5		DIST		



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NOTES:

- FOR DRAWING DIRECTORY, REFER TO: B-DD-M8568-0
- UNLESS OTHERWISE SPECIFIED, THE FOLLOWING PIN NUMBERS APPLY:

PACKAGE TYPE	VCC	GND
16 PIN DIP	16	8
14 PIN DIP	14	7
I.C. DEC 7475	5	12
I.C. DEC 6840	8	1
I.C. DEC 75453	8	4
- SPARE LOCATIONS ARE: E5.

REWORK INSTRUCTIONS

ETCH CUTS SIDE #2 (AS SHOWN)

- 0-1. CUT ETCH AT PTH TO THE RIGHT OF E97(3 & 4)

WIRE ADDS SIDE #1 AS SHOWN (ITEM #38)

- 0-2. ADD WIRE FROM THE PTH ABOVE & TO THE RIGHT OF C115 TO E110(7).
0-3. ADD WIRE FROM E110(6) TO E84(3).
0-4. ADD WIRE FROM E84(4) TO E117(11).
0-5. ADD WIRE FROM E110(5) TO E117(10).
0-6. ADD WIRE FROM E110(2) TO E95(10).
0-7. ADD WIRE FROM E111(13) TO E110(3).
0-8. ADD WIRE FROM E110(4) TO THE PTH ABOVE & TO THE RIGHT OF E116(1).
0-9. ADD WIRE FROM E106(11) TO THE PTH TO THE LEFT OF E87(4).
0-10. ADD WIRE FROM E110(5) TO E106(12).
0-11. ADD WIRE FROM E110(2) TO E106(13).

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCHED CIRCUIT BOARD	5012237	1
117	C1 THRU C117	CAP. 10nF 50V 20%	1001810-00	2
6	C118 THRU C123	CAP. 39nF 10V 10%	1000076	3
2	R1,R2	RES. 1K 5% 1/4W	1300365	4
4	R3 THRU R6	RES. 270 5% 1/4W	1301972	5
4	R7 THRU R10	RES. 300 5% 1/4W	1301425	6
1	R11	RES. 330 5% 1/4W	1300295	7
1	R12	RES. 220 5% 1/4W	1300271	8
8	E1,E10,E21,E23,E33,E38,E68,E84	I.C. DEC 1074H04	1910483	9
4	E2,E11,E17,E27	I.C. 7475	1909050	10
5	E3,E13,E37,E50,E69	I.C. 74174	1910652	11
9	E4,E8,E12,E31,E41,E42,E46,E49,E54	I.C. DEC 6838	1911117	12
4	E6,E19,E28,E29	I.C. 74S280	1911573	13
5	E7,E16,E22,E26,E108	I.C. DEC 6840	1911489	14
4	E9,E14,E18,E32	I.C. DEC 74S35	1912039	15
10	E15,E44,E48,E53,E66,E75,E76,E85,E101,E110	I.C. DEC 1074H50	1910512	16
11	E20,E25,E35,E39,E40,E47,E62,E80,E87,E96,E103	I.C. DEC 74S153	1910547-00	17
4	E24,E36,E55,E60	I.C. 74157	1910655	18
4	E30,E63,E71,E99	I.C. DEC 1074H53	1910514	19
1	E34	I.C. DEC 1074H55	1910515	20
4	E43,E45,E78,E83	I.C. 7432	1911521	21
7	E51,E57,E58,E88,E102,E106,E52	I.C. 3001	1909514	22
1	E56	I.C. DEC 1074H21	1910467	23
1	E59	I.C. DEC 74175	1910651	24
1	E61	I.C. DEC 1074H10	1910484	25
2	E64,E90	I.C. DEC 7402	1909004	26
6	E65,E72,E81,E82,E88,E105	I.C. DEC 1074H00	1910482	27
1	E70	I.C. 7487	1911195	28
4	E73,E114 THRU E116	I.C. 75453	1911036	29
7	E74,E77,E83,E82,E97,E104,E109	I.C. 74S175	1910957	30
5	E79,E95,E112,E113,E117	I.C. 74S174	1910550	31
1	E86	I.C. 74S158	1910549	32
1	E91	I.C. 74S84	1910542-00	33
4	E94,E98,E100,E111	I.C. DEC 1074H11	1910485	34
1	E107	I.C. 74S157	1910548	35
1		HANDLE ASSY	1210711-02	36
12		EYELET	9006732	37
A/R		WIRE #30AWG WHT	9105740-99	38
1	E67	I.C. DEC 74S00	1910532	39

FIRST USED ON OPT/MOD MB20		PARTS LIST	
ETCH BOARD REV		DATE 7 JUN 76 CHKD. <i>W. J. Carter</i> DATE 8 JUN 76 ENG. <i>W. J. Carter</i> DATE 8 JUN 76 PRG. ENG. <i>W. J. Carter</i> DATE 8 JUN 76 PROD. <i>Bill Eubank</i> DATE 14 JUL 76 NEXT HIGHER/ASSY B-DD-M8568-0	
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART		SCALE 1 OF 5	
SHEET 1 OF 5		DIST.	
TITLE BUS INTERFACE & DIAG LOGIC		NUMBER DUA M8568-0-0	
REV.		REV.	

BRUNING 40-107 15948

DEC FORM NO
DRD-135

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0-0-8958W VNU 2

37 (QTY 12)

36

D

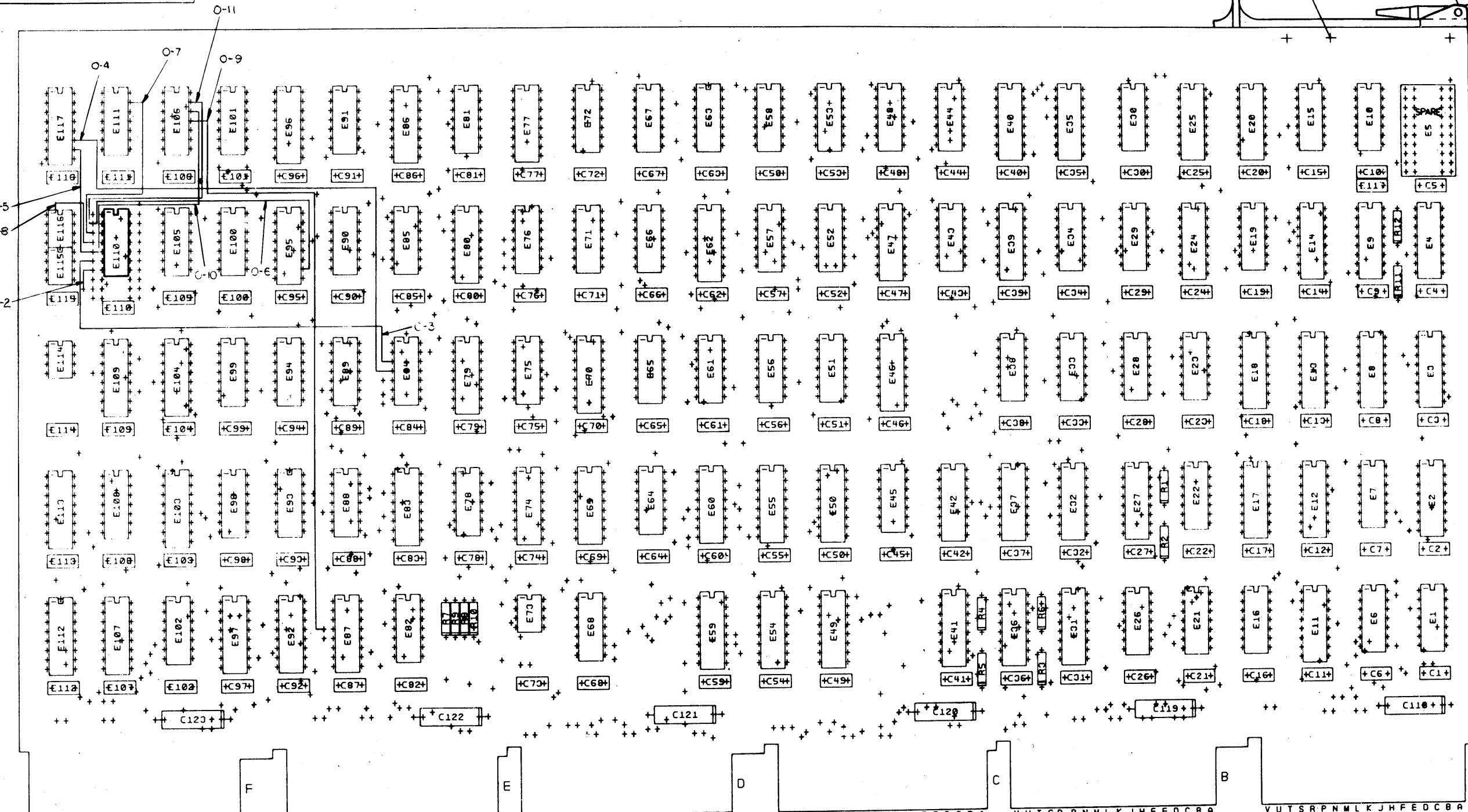
C

A

B

A

1 MS#



NOTES:

VUTSRPNMLKJHFEDCBA

VUTSRPNMLKJHFEDCBA

VUTSRPNMLKJHFEDCBA

VUTSRPNMLKJHFEDCBA

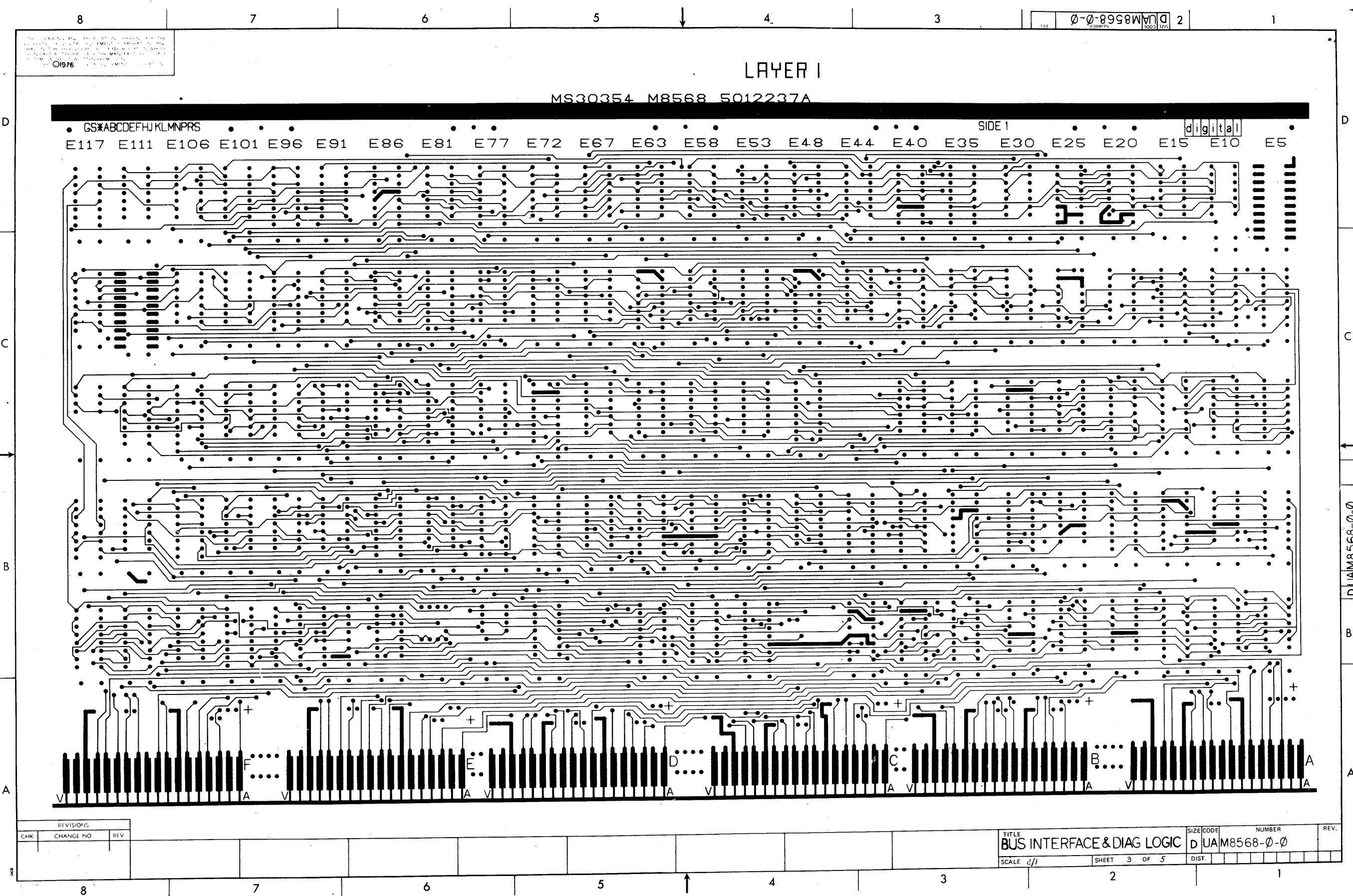
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VUTSRPNMLKJHFEDCBA

CH	CHANGE NO	REV

ETCH REV.	A
P.C. DESIGN DATA BASE REV.	A

SIGNATURES	DATE	digital
DRN. <i>05-1/1976</i>	<i>7/7/76</i>	
CHK'D. <i>R.W. Con...</i>	<i>8-1-76</i>	TITLE BUS INTERFACE & DIAG. LOGIC
ENC. <i>...</i>	<i>...</i>	
PROJ. ENG. <i>...</i>	<i>...</i>	SIZE CODE NUMBER 0 UA M8568-0-0
PROD. <i>Bill Only</i>	<i>1467</i>	
SCALE <i>2/1</i>		REV
SHT. 2 OF 5		
NEXT HIGHER ASSY. B-DD-M8568-0		



REVISIONS			TITLE										SIZE CODE		NUMBER		REV.
CHK	CHANGE NO	REV	BUS INTERFACE & DIAG LOGIC										D UAM8568-0-0				
			SCALE 2/1										SHEET 3 OF 5		DIST.		

8

7

6

5

↑

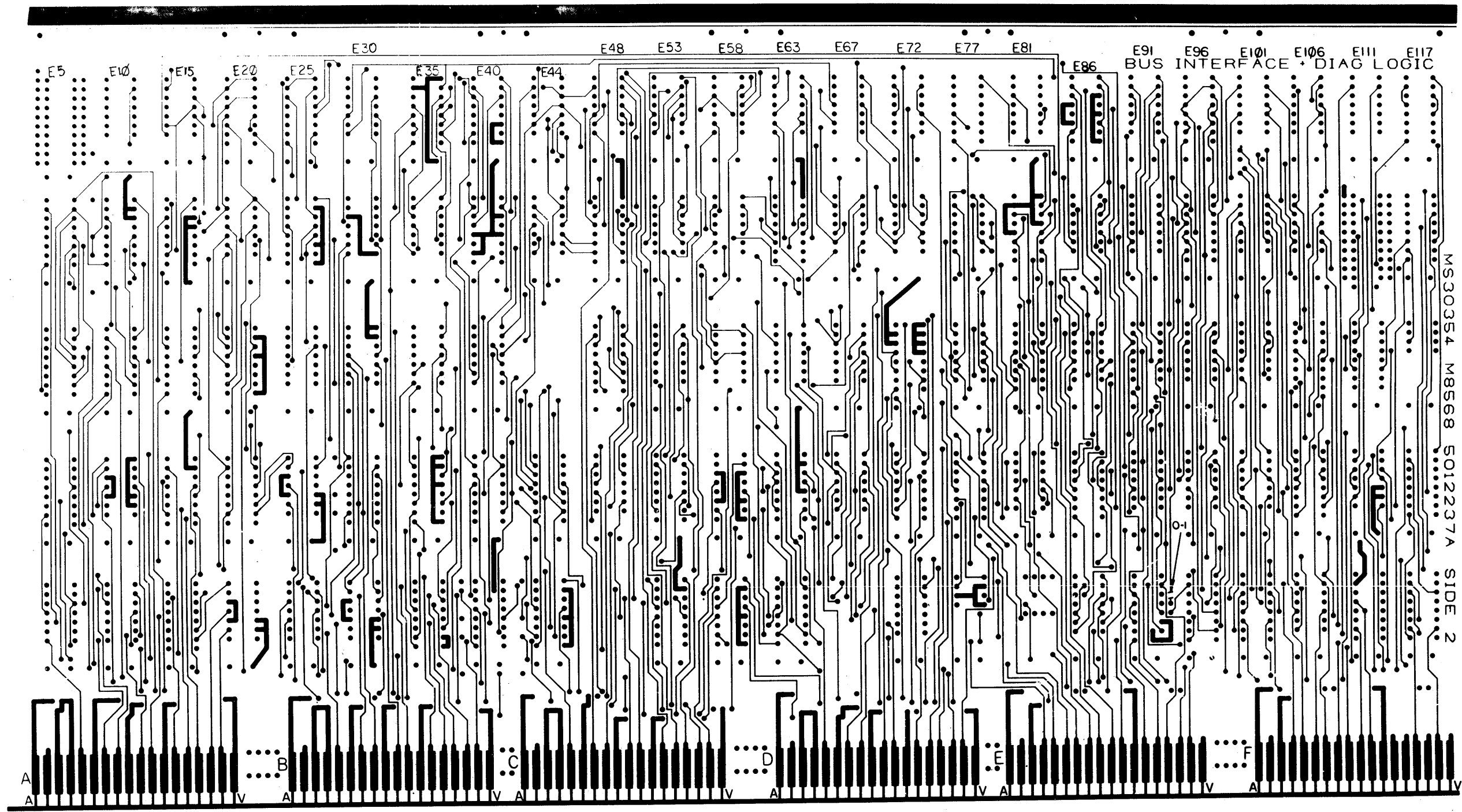
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3

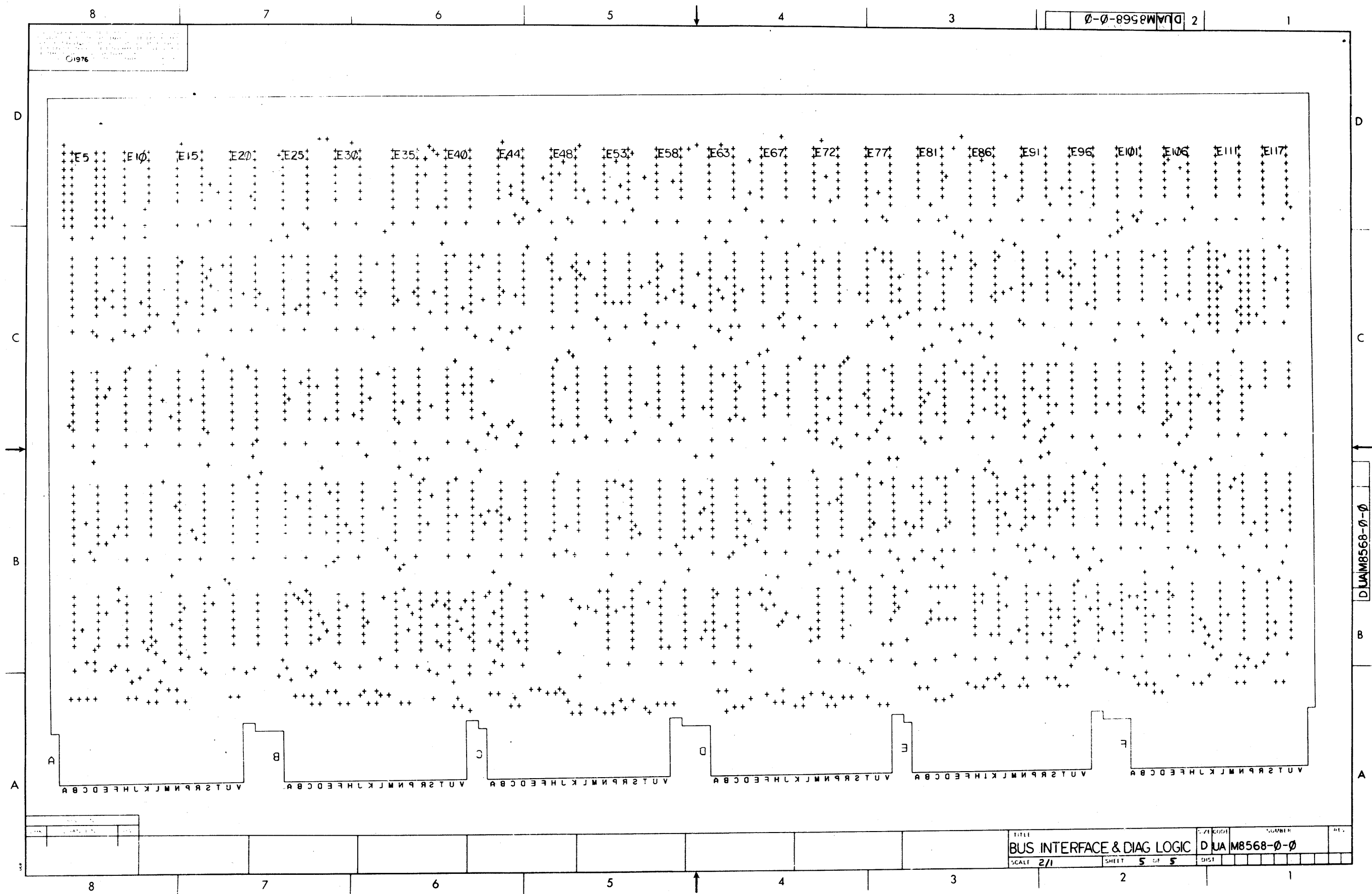
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1

834AJ



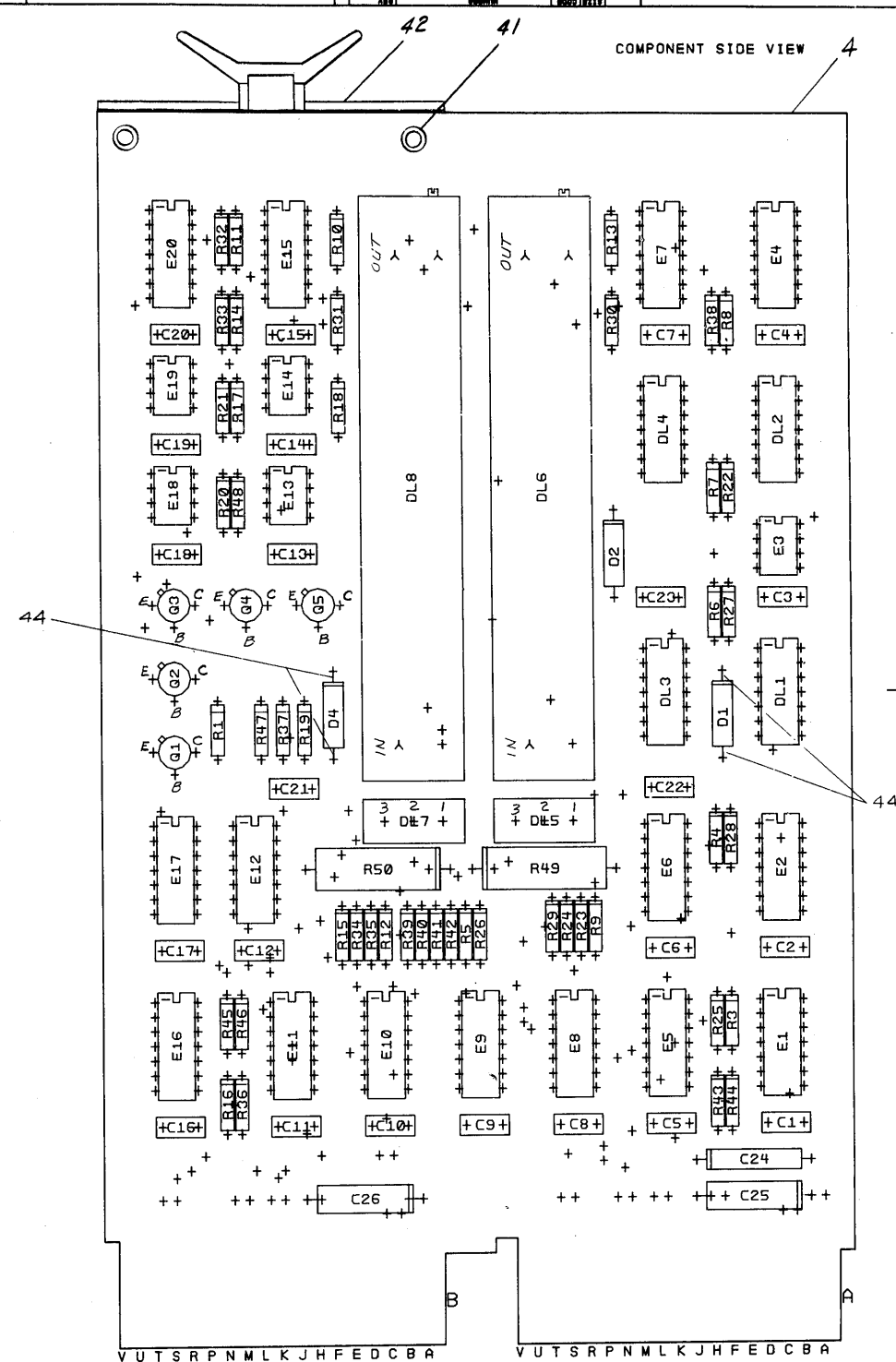
MS30354 M8568 5012237A SIDE 2



PACKAGE TYPE	GND	+5V
16 PIN DIP	8	16
14 PIN DIP	7	14
8 PIN DIP	4	8

- NOTES: 1. ADD ITEM 44 SLEEVING TO D1
 & D4 LEADS BOTH ENDS
 2. R49 & R50 DO NOT HAVE TO BE OFF BOARD

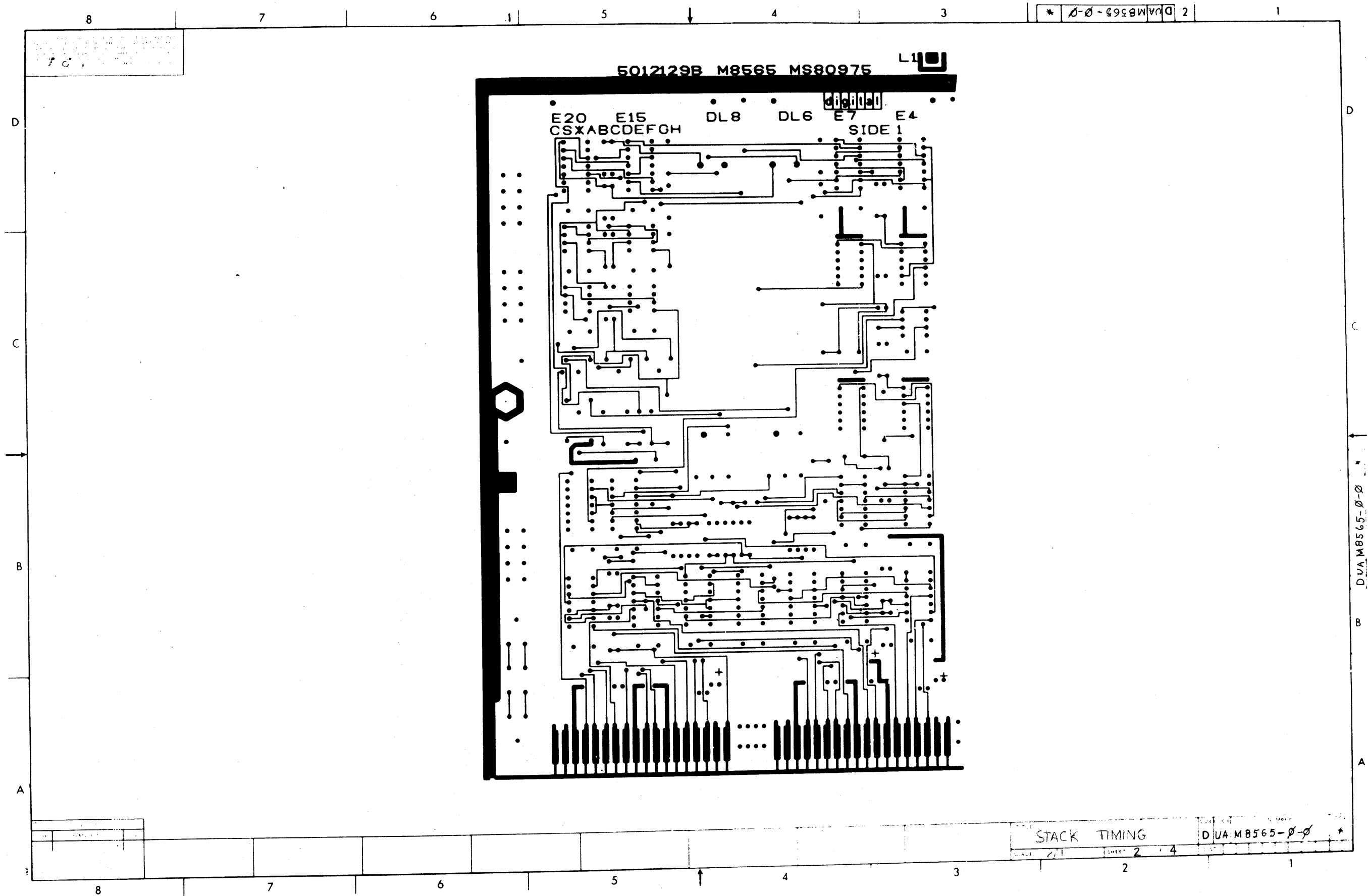
CHK	CHANGE NO	REV
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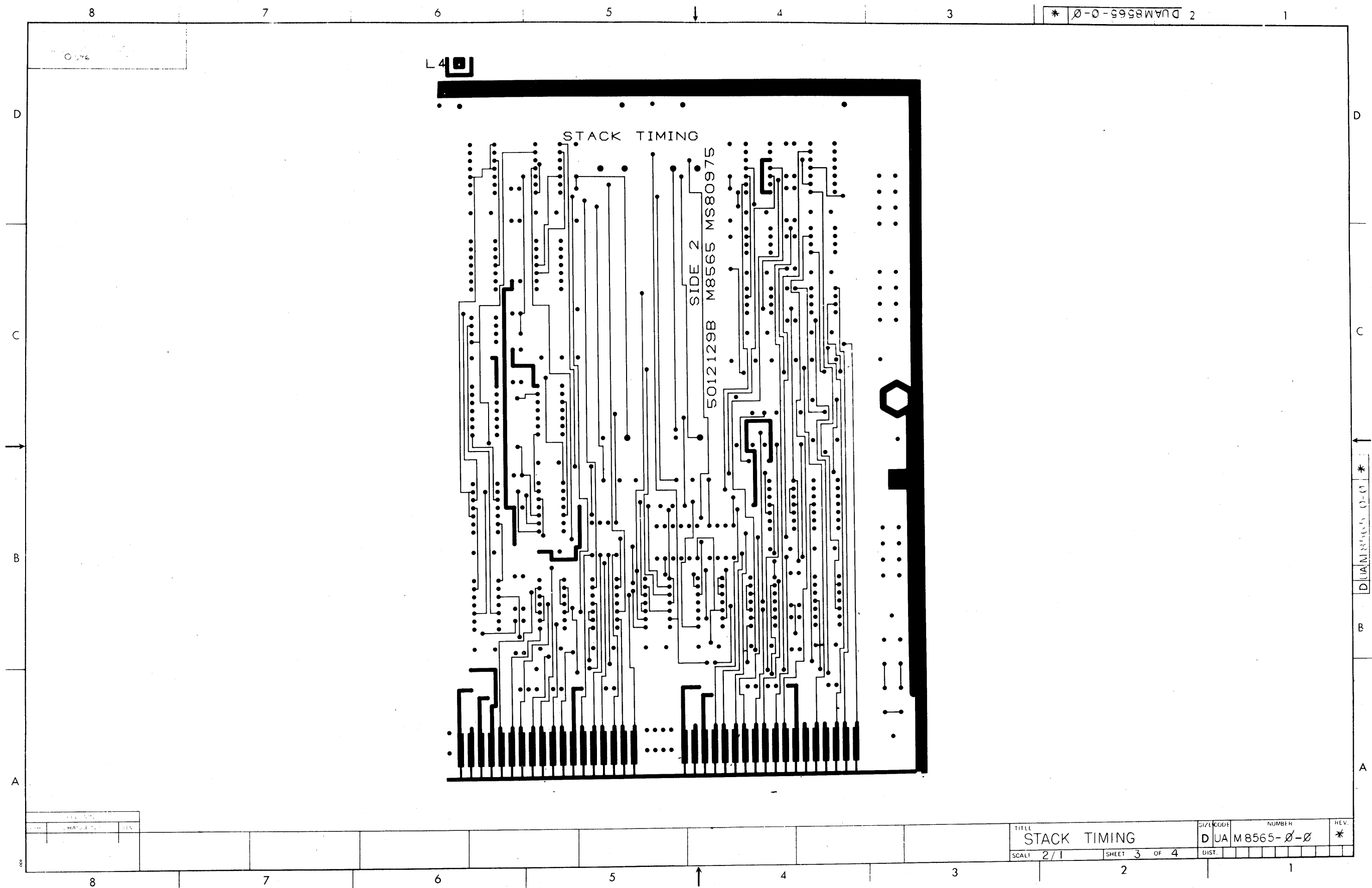


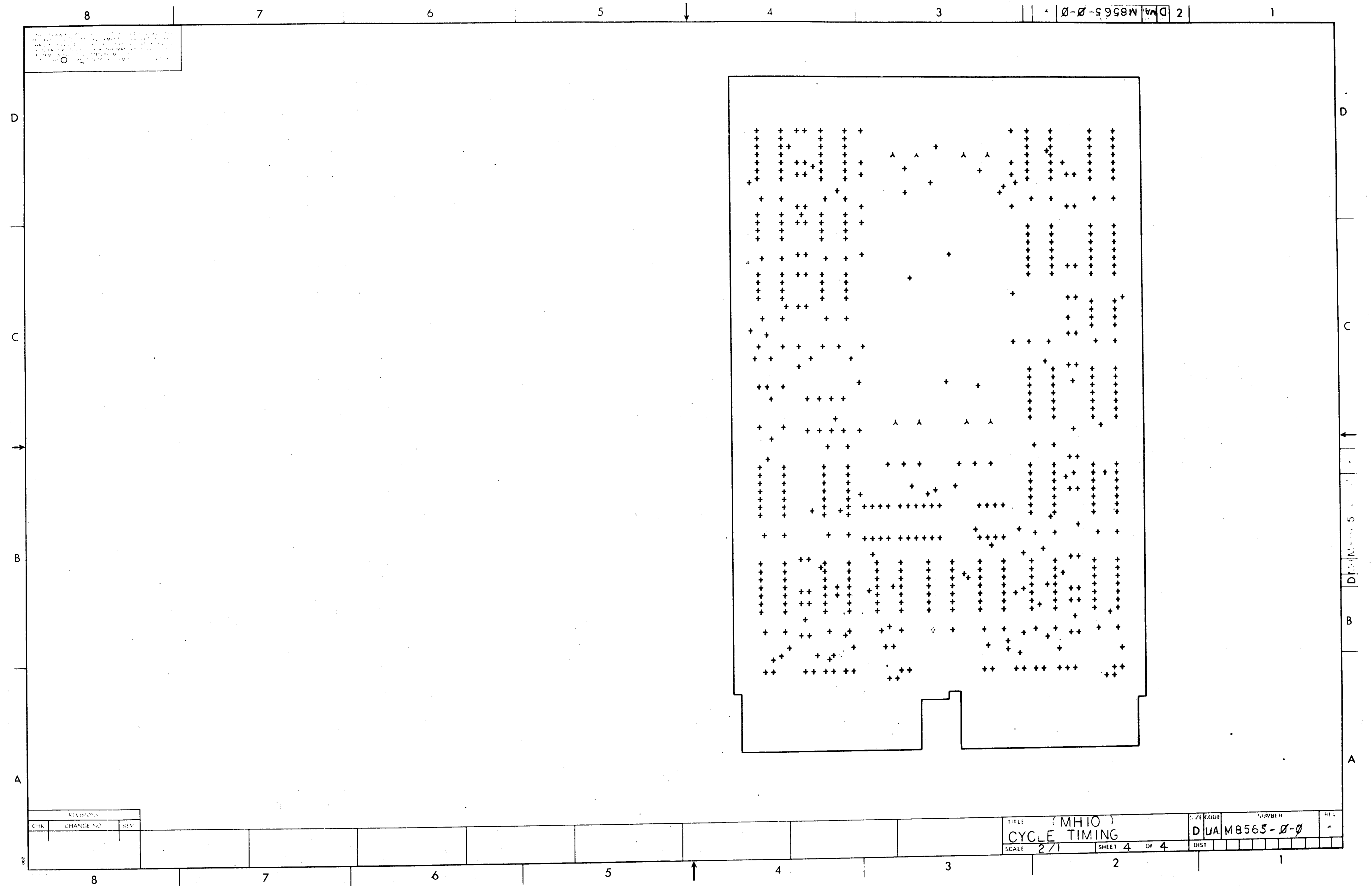
ETCH REV.	B
P.C. DESIGN DATA BASE REV.	B

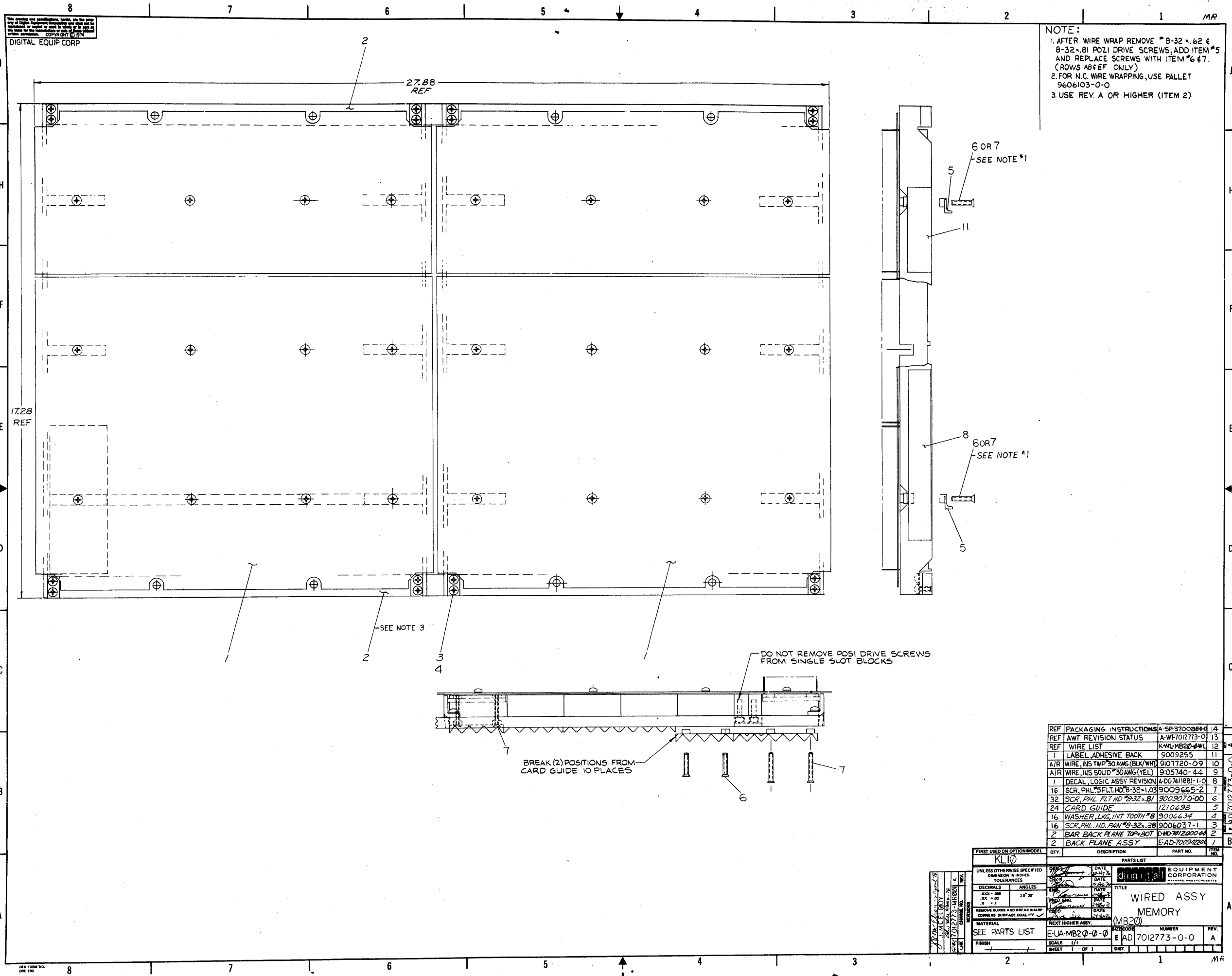
SIGNATURES		DATE	digital	
DRN.	<i>B. Embury</i>	<i>6 Sept-78</i>		
CHK'D.	<i>B. Embury</i>	<i>17 MAY 78</i>		
ENG.	<i>B. Embury</i>	<i>24 Jun-78</i>	TITLE	
PROJ. ENG.	<i>B. Embury</i>	<i>24 Jun-78</i>	STACK TIMING	
PROD.	<i>B. Embury</i>	<i>24 Jun-78</i>	SIZE CODE NUMBER	
SCALE	<i>2:1</i>		<i>0 UA M8565-0-0</i>	
SHT.	<i>1 OF 4</i>		<i>0</i>	
NEXT HIGHER ASSY. <i>B-DD-M8565-0</i>				

1 MS#80975









NOTE:
1. AFTER WIRE WRAP REMOVE 8-32 x .62 8-32 x .81 POSI DRIVE SCREWS, ADD ITEM #5 AND REPLACE SCREWS WITH ITEM #6 #7. (ROWS AB&EF ONLY)
2. FOR N.C. WIRE WRAPPING, USE PALLET 9606103-0-0
3. USE REV. A OR HIGHER (ITEM 2)

REF	PACKAGING INSTRUCTIONS	A-SP37002884	14
REF	AWT REVISION STATUS	A-WF7012773-0	13
REF	WIRE LIST	K-WL-MB20-WL	12
1	LABEL ADHESIVE BACK	9009255	11
A/R	WIRE, INS TWP 30AWG (BLK/WH)	9107720-09	10
A/R	WIRE, INS SQUID 30AWG (YEL)	9105740-44	9
1	DECAL LOGIC ASSY REVISION	A-DC-7411881-1-0	8
16	SCR, PHL 5FLT, HD 8-32 x 1.03	9009665-2	7
32	SCR, PHL FLT, HD 8-32 x .81	9009070-00	6
24	CARD GUIDE	1210698	5
16	WASHER, LKG, INT TOOTH #8	9006634	4
16	SCR, PHL, HD, PHN 8-32 x .38	9006037-1	3
2	BAR BACK PLANE TOP/BOT	DMD-71200044	2
2	BACK PLANE ASSY	EAD-700942204	1

FIRST USED ON OPTION/MODEL		KL10	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE: 10/1/73 BY: [Signature]	
DECIMALS	ANGLES	TITLE: WIRED ASSY MEMORY (MB20)	
.XXX - .005	± 0° 30'	EQUIPMENT CORPORATION	
.XX - .02		MALDEN, MASSACHUSETTS	
.X - .1		DATE: 10/1/73 BY: [Signature]	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE: 10/1/73 BY: [Signature]	
MATERIAL		NEXT HIGHER ASSY.	
SEE PARTS LIST		E-UA-MB20-0-0	
FINISH		SCALE: 1/1	
SHEET 1 OF 1		DIST.	

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DIGITAL EQUIPMENT CORPORATION

MB20.NCA

MB20.TPA

MB20A.ALL

709442.RCC (MA20,MB20,MH10 AND MG10 ETCH ONLY TEST TAPE)

NOTES:

1. LIST OF PAPER TAPE FILES USED.
2. LIST OF AWT FILES USED

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KL10		PARTS LIST		
DRN.		DATE	2 Jun 76	
CHK'D.		DATE	2 Jun 76	
ENG.		DATE		
PROJ. ENG.		DATE		
PROD.		DATE	5 Jun 76	
NEXT HIGHER ASSEMBLY				
E-AD-7012773-0-0		SIZE	CODE	NUMBER
SCALE		K	WL	MB20-0-WL
SHEET 1 OF 1		DIST.		

digital

EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

TITLE

WIRED ASSY (MEMORY)

REV. A

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[illegible]

DRA 123

DEC 16 1964 1097-N 74