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**FIELD MAINTENANCE PRINT SET**

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UNIT VARIATIONS COVERED BY THIS PRINT SET	
KS10-AA	
KS10-AB	

KS10  
Field Maintenance  
Print Set

Digital Equipment  
Corporation

MP00540

REV.  
NUMBER  
KS10-0-1  
SIZE CODE  
B TC

REVISIONS	REV.	USED ON OPTION/MODEL	DRN.	DATE	TITLE:	digital				
	CHG. NO.		CHK'D	DATE						
		KS10-0	J. Hudson	29 Nov 77		KS10 PROCESSOR	SIZE	CODE	NUMBER	REV.
			T. D'undron	3-17-78						
			PROJ. ENG.	DATE			DIST.			
			FIELD SERV.	DATE						
DATE			J. Callaghan	4/28/78						

SHEET 1 OF 3

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REV.	NUMBER KS10-0-1	CODE TC	SIZE B
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B-TC-KS10-0-1	KS10-0 PRINT SET	D-CS-M8618-0-MMC9	MEMORY CONTROL, REFRESH LOGIC
B-DD-KS10-0	TABLE OF CONTENTS	D-CS-M8618-0-MMCA	MEMORY CONTROL, CYCLE LOGIC
A-PL-KS10-0-0	KS10 DRAWING DIRECTORY	D-CS-M8618-0-MMCB	MEMORY CONTROL, WRITE LOGIC
D-UA-KS10-0-0	KS10 PROCESSOR UNIT ASSY PARTS LIST	D-CS-M8618-0-MMCC	MEMORY CONTROL, CLOCKS
A-PL-KS10-0-SH	KS10 PROCESSOR UNIT ASSY	D-CS-M8618-0-MMCD	MEMORY CONTROL, POWER GND, CAPS
B-DD-KS10-PA	KS10 SHIP LIST	D-CS-M8619-0-UBA1	UNIBUS ADAPTER, UNIBUS ARB
A-PL-KS10-PA-0	CARD CAGE ASSY DRAWING DIRECTORY	D-CS-M8619-0-UBA2	UNIBUS ADAPTER, UNIBUS CONTROL
E-UA-KS10-PA-0	CARD CAGE ASSY PARTS LIST	D-CS-M8619-0-UBA3	UNIBUS ADAPTER, INTERRUPT
E-IA-7015109-0-0	CARD CAGE ASSY	D-CS-M8619-0-UBA4	UNIBUS ADAPTER, I/O RD & WRT
E-IA-7015571-0-0	MAIN D.C. HARNESS (NON-UL)	D-CS-M8619-0-UBA5	UNIBUS ADAPTER, NPR CONTROL
D-IA-7014323-0-0	MAIN D.C. HARNESS (UL)	D-CS-M8619-0-UBA6	UNIBUS ADAPTER, KS10 BUS REQ
D-IA-7014324	BLOWER POWER CORD	D-CS-M8619-0-UBA7	UNIBUS ADAPTER, FAST MODE LOGIC
D-IA-7015137-0-0	BLOWER POWER CORD	D-CS-M8619-0-UBA8	UNIBUS ADAPTER, DATA PATH 1
D-IA-7015325-0-0	BLOWER POWER CORD	D-CS-M8619-0-UBA9	UNIBUS ADAPTER, DATA PATH 2
D-IA-7015108-0-0	POWER SUPPLY CORD	D-CS-M8619-0-UBAA	UNIBUS ADAPTER, DATA PATH 3
D-IA-7015269-0-0	POWER SUPPLY CORD	D-CS-M8619-0-UBAB	UNIBUS ADAPTER, DATA PATH 4
D-IA-7015159-0-0	CONSOLE PANEL CABLE	D-CS-M8619-0-UBAC	UNIBUS ADAPTER, DATA PATH 5
D-IA-7014482-0-0	BACKPLANE SIGNAL HARNESS	D-CS-M8619-0-UBAD	UNIBUS ADAPTER, TERMINATION
E-IA-7015317-0-0	SWITCH PANEL HARNESS	D-CS-M8619-0-UBAF	UNIBUS ADAPTER, UNIBUS CONN
D-AD-7015067-0-0	SWITCH PANEL BRACKET ASSY	D-CS-M8619-0-UBAF	UNIBUS ADAPTER, +5.0V CAPS
D-AD-7014462-0-0	CARD CAGE POWER HARNESS	D-CS-M8619-0-UBAH	UNIBUS ADAPTER, POWER, GND PINS
D-IA-7014486-0-0	HEAT SENSOR ASSY	D-CS-M8620-0-DPE1	DATA PATH EXEC, DP LEFT
A-WL-7014486-0-1	ASSY, MASS BUS CABLE TROUGH	D-CS-M8620-0-DPE2	DATA PATH EXEC, DP RIGHT
A-WL-7014486-0-2	BACKPLANE ASSY	D-CS-M8620-0-DPE3	DATA PATH EXEC, DBUS LEFT
A-WL-7014486-0-3	KS10 CLOCK COAX	D-CS-M8620-0-DPE4	DATA PATH EXEC, DBUS RIGHT
D-AD-7014173-0-0	KS10 POWER WIRING	D-CS-M8620-0-DPE5	DATA PATH EXEC, CONTROL
D-UA-5413261-0-0	KS10 BUS STRIPPING	D-CS-M8620-0-DPE6	DATA PATH EXEC, RAMFILE ADDRESS
D-CS-M8615-0-CSL1	Ball-K BOX ASSY	D-CS-M8620-0-DPE7	DATA PATH EXEC, RAMFILE LEFT
D-CS-M8616-0-CSL2	POWER DISTRIBUTION BOARD	D-CS-M8620-0-DPE8	DATA PATH EXEC, RAMFILE RIGHT
D-CS-M8616-0-CSL3	CONSOLE & CONTROL, CLK, KS10 ARB	D-CS-M8620-0-DPE9	DATA PATH EXEC, P.C. FLAGS
D-CS-M8616-0-CSL4	CONSOLE & CONTROL, CONSOLE CONTROL	D-CS-M8620-0-DPEA	DATA PATH EXEC, IR, SKIP & DISP
D-CS-M8616-0-CSL5	CONSOLE & CONTROL, CONSOLE CONTROL ADDRESS DECODE	D-CS-M8620-0-DPEB	DATA PATH EXEC, PRIORITY INTERRUPT
D-CS-M8616-0-CSL6	CONSOLE & CONTROL, CPU CONTROL	D-CS-M8620-0-DPEC	DATA PATH EXEC, POWER, GND, CAPS
D-CS-M8616-0-CSL7	CONSOLE & CONTROL, CPU CLK CONTROL	D-CS-M8621-0-DPM1	DATA PATH MEMORY, DBM LEFT
D-CS-M8616-0-CSL8	CONSOLE & CONTROL, DATA PATH 1	D-CS-M8621-0-DPM2	DATA PATH MEMORY, DBM RIGHT
D-CS-M8616-0-CSL9	CONSOLE & CONTROL, DATA PATH 2	D-CS-M8621-0-DPM3	DATA PATH MEMORY, STEP COUNT ADD
D-CS-M8616-0-CSLA	CONSOLE & CONTROL, DATA PATH 3	D-CS-M8621-0-DPM4	DATA PATH MEMORY, FE, SC, VMA, REGS
D-CS-M8616-0-CSLB	CONSOLE & CONTROL, KLINIK	D-CS-M8621-0-DPM5	DATA PATH MEMORY, MEMORY CYCLE
D-CS-M8616-0-CSLC	CONSOLE & CONTROL, CPU CLK CONT	D-CS-M8621-0-DPM6	DATA PATH MEMORY, PAGE TABLE
D-CS-M8618-0-MMC1	CONSOLE & CONTROL, MISC	D-CS-M8621-0-DPM7	DATA PATH MEMORY, CACHE DIRECTORY
D-CS-M8618-0-MMC2	CONSOLE & CONTROL, PWR, GND, CAPS	D-CS-M8621-0-DPM8	DATA PATH MEMORY, BUS LEFT
D-CS-M8618-0-MMC3	MEMORY CONTROL, SM10 BUS	D-CS-M8621-0-DPM9	DATA PATH MEMORY, BUS RIGHT
D-CS-M8618-0-MMC4	MEMORY CONTROL, ERROR CORRECTION	D-CS-M8621-0-DPMA	DATA PATH MEMORY, CONTROL
D-CS-M8618-0-MMC5	MEMORY CONTROL, ADDRESS MUX	D-CS-M8621-0-DPMB	DATA PATH MEMORY, APR DEVICE
D-CS-M8618-0-MMC6	MEMORY CONTROL, ECC GEN/CHK	D-CS-M8621-0-DPMC	DATA PATH MEMORY, MORE CONTROL
D-CS-M8618-0-MMC7	MEMORY CONTROL, ERROR CORRECTION	D-CS-M8621-0-DPMD	DATA PATH MEMORY, POWER, GND, CAPS
D-CS-M8618-0-MMC8	MEMORY CONTROL, MOS DATA	D-CS-M8621-0-DPME	DATA PATH MEMORY, POWER, GND, CAPS
	MEMORY CONTROL, OUTPUT MIX	D-CS-M8622-0-CRA1	CRAM ADDRESS, ADR BITS 00-11
	MEMORY CONTROL, ADDRESS MATCH		

TITLE	KS10 PROCESSOR	SIZE CODE	NUMBER	REV
		B TC	KS10-0-1	
SHEET 2 OF 3				

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- |                   |                                      |
|-------------------|--------------------------------------|
| D-CS-M8622-0-CRA2 | CRAM ADDRESS, CONTROL                |
| D-CS-M8622-0-CRA3 | CRAM ADDRESS, SUBROUTINE STACK       |
| D-CS-M8622-0-CRA4 | CRAM ADDRESS, DIAGNOSTIC 1           |
| D-CS-M8622-0-CRA5 | CRAM ADDRESS, BACKPANEL BUS          |
| D-CS-M8622-0-CRA6 | CRAM ADDRESS, CRAM REGISTER          |
| D-CS-M8622-0-CRA7 | CRAM ADDRESS, ADDRESS DRIVERS        |
| D-CS-M8622-0-CRA8 | CRAM ADDRESS, 00-05, 12-17, 24-29    |
| D-CS-M8622-0-CRA9 | CRAM ADDRESS, 00-11, 18-23, 30-35    |
| D-CS-M8622-0-CRAA | CRAM ADDRESS, POWER, GND, CAPS       |
| D-CS-M8623-0-CRM1 | CONTROL RAM, ADDRESS DRIVERS         |
| D-CS-M8623-0-CRM2 | CONTROL RAM, OUTPUT REGISTERS        |
| D-CS-M8623-0-CRM3 | CONTROL RAM, PAR & DIAG              |
| D-CS-M8623-0-CRM4 | CONTROL RAM, RAMS 36-47              |
| D-CS-M8623-0-CRM5 | CONTROL RAM, RAMS 48-59              |
| D-CS-M8623-0-CRM6 | CONTROL RAM, RAMS 60-71              |
| D-CS-M8623-0-CRM7 | CONTROL RAM, RAMS 72-83              |
| D-CS-M8623-0-CRM8 | CONTROL RAM, RAMS 84-95              |
| D-CS-M8623-0-CRM9 | CONTROL RAM, POWER, GROUND, CAPS     |
| D-CS-M8629-0-MMA1 | MOS MEMORY ARRAY, ARRAY DRIVERS      |
| D-CS-M8629-0-MMA2 | MOS MEMORY ARRAY, ADDRESS BUFFERS    |
| D-CS-M8629-0-MMA3 | MOS MEMORY ARRAY, BITS 41-23A        |
| D-CS-M8629-0-MMA4 | MOS MEMORY ARRAY, BITS 41-23B        |
| D-CS-M8629-0-MMA5 | MOS MEMORY ARRAY, BITS 21-01A        |
| D-CS-M8629-0-MMA6 | MOS MEMORY ARRAY, BITS 21-01B        |
| D-CS-M8629-0-MMA7 | MOS MEMORY ARRAY, BITS 42-22A        |
| D-CS-M8629-0-MMA8 | MOS MEMORY ARRAY, BITS 42-22B        |
| D-CS-M8629-0-MMA9 | MOS MEMORY ARRAY, BITS 20-00A        |
| D-CS-M8629-0-MMAA | MOS MEMORY ARRAY, BITS 20-00B        |
| D-CS-M8629-0-MMAB | MOS MEMORY ARRAY, POWER, GND, CAPS   |
| D-CS-M8629-0-MMAC | MOS MEMORY ARRAY, POWER, GND, CAPS   |
| D-CS-M8629-0-MMAD | MOS MEMORY ARRAY, ARRAY +5V          |
| A-SP-KS10-0-2     | KS10-AA, AB MANUFACTURING TEST SPEC. |

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DRAWING DIRECTORY

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UNIT VARIATIONS	
VAR	TITLE
KS1Ø-AA	KS1Ø PROCESSOR UNIT ASSY 115V/6ØHZ
KS1Ø-AB	KS1Ø PROCESSOR UNIT ASSY 23ØV/5ØHZ

REVOLUTIONS	REV.	
	CHANGE NO.	
	CHK	

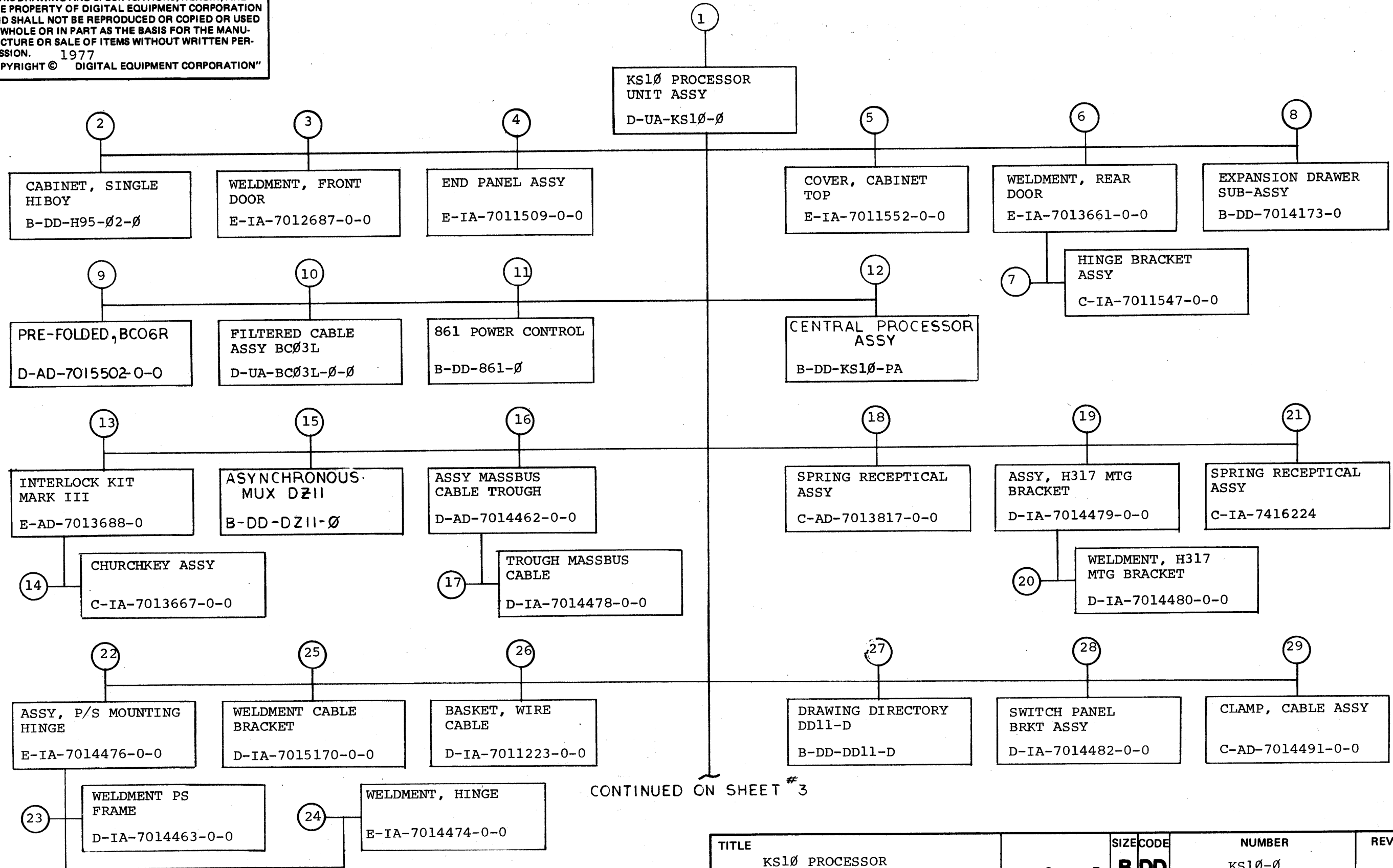
USED ON OPTION/MODEL	DRN.	DATE	TITLE
KS1Ø	J. Huson	18 Nov 77	KS1Ø PROCESSOR
	CHK'D.	DATE	
	T. Halliday	3-17-78	
	PROJ. ENG.	DATE	SIZE CODE NUMBER REV
	T. Duncanson	4/28/78	B DD KS1Ø-Ø
	PROD.	DATE	DIST.
SHEET 1 OF 7	P. CHAPELLE	4/28/78	



MIR



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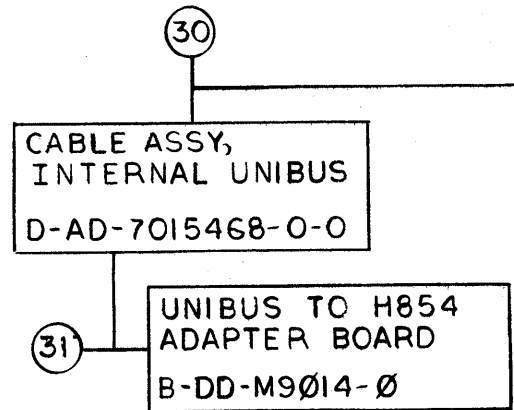


CONTINUED ON SHEET # 3

TITLE	KS10 PROCESSOR	SHEET 2 OF 7	SIZE CODE <b>B DD</b>	NUMBER KS10-0	REV
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CONTINUED FROM SHEET #2



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE		
1	MP00540	FIELD MAINTENANCE PRINT SET (MP)	-	3	E-IA-7012687-0-0	E-IA-7012687-0-0	M		
	B-TC-KS10-0-1	FIELD MAINTENANCE PRINT SET (TC)	-		C-MD-7415307-0-0	BRACKET, SUPPORT	M		
	D-UA-KS10-0-0	KS10 PROCESSOR UNIT ASSY (UA)	E/M		D-MD-7414429-0-0	STIFFENER, DOOR	M		
	A-PL-KS10-0-0	KS10 PROCESSOR UNIT ASSY (PL)	E/M		C-MD-7415421-0-0	SPACER, FILTER	M		
	E-MD-7419762-0-0	PIVOT & BEZEL SUPPORT, BRACKET	M		C-MD-7414430-0-0	PIVOT SPRING RETAINER	M		
	D-IA-7416575-0-0	DOOR PIVOT TOP	M		E-MD-7416578-0-0	DOOR, FRONT	M		
	C-MD-7415200-0-0	PIVOT PLATE	M		D-MD-7414425-2-0	STIFFENER DOOR	M		
	D-IA-7420372-0-0	MASSBUS CABLE TROUGH CLAMP	M						
	C-MD-7414318-0-0	KEY BUTTON	M						
	B-MD-7413639-0-0	SHIPPING BRACKET (BALL)	M						
	D-MD-7420636-0-0	FRONT DRIP SCREEN	M	4	E-IA-7011509-0-0	END PANEL ASSY	M		
	A-PS-3615379-0-0	LABEL ADH. BACK KSIO	M		C-IA-7415578-0-0	STRAP, GROUND	M		
	D-MD-7419315-0-0	BRKT, SUPPORT MTG	M		C-IA-7415321-0-0	PLATE, GROUNDING	M		
	C-IA-7419497-0-0	BRACKET VERTICAL CABLING	M		D-MD-7414542-0-0	CAP, CORNER (STAMPING)	M		
	E-IA-7419500-0-0	CONSOLE DECSYSTEM 2020 CONTROL	M		D-MD-7414314-0-0	STIFFENER END PANEL	M		
	B-IA-7419496-0-0	BASKET BRACKET	M		E-MD-7414601-0-0	PANEL, END	M		
	C-MD-7413983-0-0	ENCLOSURE CLAMP	M						
	E-MD-7415471-0-0	STRIP, DOOR CLOSING	M						
	C-MD-7419826-0-0	CLIP, CABLE	M						
	D-IA-BC03M-0-0	CORD, EXTENSION NULL MODEM	M						
	C-MD-7420390-0-0	BRACKET, INTERLOCK	M						
	D-IA-7015066-0-0	BLOWER POWER CORD	M						
	D-IA-7015137-0-0	POWER CORD, POWER SUPPLY	M						
	A-PS-3613210-0-0	LABEL, ADHESIVE BACKED, ELECT. DATA	M						
	D-MD-7419286-0-0	INTER CABINET DRIP SHIELD	M						
	A-DC-7417095-0-0	CAUTION DECAL	M						
	C-IA-7008288-0-0	CABLE ASSY	M						
	C-IA-7414622-0-0	LOCK STUD ASSY	M						
	D-IA-7015325-0-0	POWER SUPPLY POWER CORD	E/M	5	E-IA-7011552-0-0	COVER, CABINET TOP	M		
	D-IA-7015326-0-0	BLOWER POWER CORD	E/M		E-MD-7414551-0-0	PANEL, COVER	M		
	D-CS-M9300-0-1	UNIBUS B TERMINATOR	E		C-IA-7415321-0-0	PLATE, GROUNDING	M		
	C-MD-7418685-0-0	FRONT CLOSING STRIP	M		C-IA-7415578-0-0	STRAP, GROUND	M		
	C-IA-7015508-0-0	CABLE ASSY, 861 TO PWR DIST BOARD	E/M		C-MD-7417022-0-0	CATCH, TOP COVER	M		
	A-SP-3615670-0-0	FIBERGLASS PROTECTIVE TAPE	E/M						
	C-UA-BC05D-0-0	ASYNCH MODEM INTERF CABLE ECT	E/M						
	A-SP-KS10-0-2	2020 SYSTEM ACCEPTANCE TEST SPEC	E/M						
	A-SP-3700241-12	PKG INSTRUCTIONS CORP CAB	M						
2	B-DD-H9502-0	CABINET, SINGLE HIROY	M	6	E-IA-7013661-0-0	WELDMENT, REAR DOOR	M		
					E-MD-7418162-0-0	DOOR, REAR	M		
					D-MD-7415442-0-0	STIFFENER, DOOR	M		
					D-MD-7415441-0-0	STIFFENER, DOOR CENTER	M		
					C-MD-7415307-0-0	BRACKET, SUPPORT	M		
					D-IA-7415363-0-0	STIFFENER, TOP COVER	M		
TYPE: E ELECTRICAL		<b>digital</b>		TITLE		SIZE	CODE	NUMBER	REV
M MECHANICAL				KS10 PROCESSOR		B	DD	KS10-0	
E/M ELECTRO/MECHANICAL									
				SHEET 4 OF 7					

DRB 108A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE					
7	C-IA-7011547-0-0	HINGE BRACKET ASSY	M									
	C-MD-7415504-0-0	GUSSET	M									
	C-MD-7414834-0-0	BRACKET HINGE	M	12	B-DD-KS1Ø-PA	CENTRAL PROCESSOR ASSY	M					
8	B-DD-7014173-0	EXPANSION DRAWER SUB-ASSY	E/M	13	E-AD-7013688-0-0	INTERLOCK KIT (MARK III)	M					
					C-MD-7416222-0-0	RETAINER, INTERLOCK	M					
					D-MD-7416424-0-0	PLATE, CAM	M					
					D-IA-7416221-0-0	PLATE, BACK	M					
					D-IA-7416556-0-0	BRACKET, OUTRIGGER	M					
					C-MD-7417977-0-0	KEY, HEX	M					
9	D-AD-7015502-0-0	PRE FOLDED BCØ6R										
	D-UA-BCØ6R-Ø-Ø	I/O CABLE										
				14	C-IA-7013667-0-0	ASSEMBY, CHURCHKEY	M					
					C-MD-7418173-0-0	CHURCHKEY	M					
10	D-UA-BCØ3L-Ø-Ø	FILTEREO CABLE ASSY BCØ3L	E/M									
	C-MD-7419277-0-0	PLATE, CONN MTG	M									
				15	B-DD-DZ11-Ø	ASYNCHRONOUS MUX DZ11	E/M					
11	B-DD-861-Ø	861 POWER CONTROL	E/M									
				16	D-AD-7014462-0-0	ASSY MASSBUS CABLE TROUGH	M					
					A-DC-7418581-0-0	UNIBUS 1,2,3 DECAL	M					
					D-AD-7009861-0-0	RECEPTACLE HOUSING	M					
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL							TITLE KS1Ø PROCESSOR		SHEET 5 OF 7	SIZE CODE B DD	NUMBER KS1Ø-Ø	REV

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
17	D-IA-7014478-0-0	WELDMENT, MASS BUS CABLE TROUGH	M				
	E-IA-7419324-0-0	TROUGH, MASS BUS CABLE	M				
	D-MD-7419494-0-0	BRACKET, L.H. ANGLE					
	D-MD-7419495-0-0	BRACKET, R.H. ANGLE					
				22	E-IA-7014476-0-0	ASSY, P/S MOUNTING HINGE	M
					C-MD-7419492-0-0	ROD PIVOT	M
18	C-AD-7013817-0-0	SPRING RECEPTACLE ASSY	M				
	C-MD-7418076-0-0	BRKT. LOCKING	M				
				23	D-IA-7014463-0-0	WELDMENT PS FRAME	M
					D-MD-7419322-0-0	PS MOUNTING PLATE	M
					D-MD-7419334-0-0	HORIZONTAL FRAME	M
					D-MD-7419323-0-0	VERTICAL FRAME	M
19	D-IA-7014479-0-0	ASSY, H317 MTG BRACKET	M				
				24	E-IA-7014474-0-0	WELDMENT, HINGE	M
					C-MD-7419499-0-0	RETAINER LOCKING PIN	M
					D-IA-7419321-0-0	BRACKET, STIFFENER	M
					D-MD-7419349-0-0	BRACKET, HINGE	M
20	D-IA-7014480-0-0	WELDMENT H317 MTG BRACKET	M				
	D-IA-7419493-0-0	BRACKET H317 MOUNTING	M				
	C-IA-7419352-0-0	BRACKET H317 RAIL MOUNTING	M				
				25	D-IA-7015170-0-0	WELDMENT, CABLE BRACKET	M
					D-MD-7419498-0-0	BRACKET, CABLE EXIT	M
					B-MD-7420104-0-0	"L" MOUNTING BRACKET	M
21	C-IA-7416224	SPRING RECEPTICAL ASSY	M				
	C-MD-7415308	BRACKET, SPRING RECEPTACLE	M				

digital

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL

TITLE KS1Ø PROCESSOR

SHEET 6 OF 7

SIZE CODE B DD

NUMBER KS1Ø-Ø

REV

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE				
26	D-IA-7011223-0-0	BASKET WIRE CABLE	M	31	B-DD-M9014-Ø	UNIBUS TC H854 ADAPTER BOARD	E				
	B-MD-7413987-0-0	BAR, SUPPORT	M								
	B-MD-7413986-0-0	CHANNEL, BASKET	M								
	B-MD-7413985-0-0	BAR, MOUNTING	M								
27	B-DD-DD11-D	DRAWING DIRECTORY DD11-D	M								E/M
28	D-IA-7014482-0-0	SWITCH PANEL BRKT ASSY	M								M
	D-MD-7419501-0-0	SWITCH PANEL BRKT	M								
	D-IA-7015159-0-0	HARNESS, SWITCH PANEL	M								
29	C-AD-7014491-0-0	CLAMP, CABLE ASSY	M								
	C-MD-7419491-0-0	CLAMP, H317 CABLE	M								
30	D-AD-7015468-0-0	CABLE ASSY, INTERNAL UNIBUS	E/M								
	D-UA-BC05L-Ø-Ø	CABLE, JUMPER	M								

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL



TITLE KS1Ø PROCESSOR SHEET 7 OF 7 SIZE CODE B DD NUMBER KS1Ø-Ø REV

**DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS  
PARTS LIST**

MADE BY <i>J. Huson</i>	CHECKED <i>F. Halliday</i>	SECTION 1
DATE <i>17 Nov 77</i>	DATE <i>3-17-78</i>	ISSUED SECT. 1
ENG <i>F. Doll</i>	PROD <i>P. CHAPELLE</i>	
DATE <i>28 APR 78</i>	DATE <i>4-28-78</i>	

**QUANTITY VARIATION**

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION																	
			KS10-AA (60HZ)	KS10-AB (50HZ)																
1	E-AD-7011588-7-0	CABINET FRAME (H9502-4)	1	1																
2	E-IA-7012687-0-0	FRONT DOOR	1	1																
3	E-MD-7419762-0-0	PIVOT & BEZEL SUPPORT, BRACKET	1	1																
4	D-IA-7416575-0-0	DOOR PIVOT TOP	1	1																
5	C-MD-7415200-0-0	PIVOT PLATE	1	1																
6	B-MD-7414226-0-0	PIN, DOOR RETAINER	2	2																
7	9008500-0	RETAINING RING	2	2																
8	9007097-0	SPRING	2	2																
9	E-IA-7011509-0-0	END PANEL	2	2																
10	E-IA-7011552-3-0	TOP COVER	1	1																
11	C-MD-7414318-0-0	KEY BUTTON	8	8																
12	E-IA-7013661-0-0	REAR DOOR	1	1																
13	D-AD-7015468-0-0	CABLE ASSY, INTERNAL UNIBUS	1	1																
14	D-AD-7014173-4-0	BALL-K ASSY 115V (H765-K)	1	-																
15	D-AD-7014173-5-0	BALL-K ASSY 230V (H765-L)	-	1																
16	9008007-03	SCREW TRUSS HD. PHL. #10-32 X .25 LONG	2	2																
17	D-AD-7015502-0-0	PRE-FOLDED BCØ6R	1	1																
18	B-MD-7413639-0-0	SHIPPING BRACKET (BALLK)	2	2																
19	1213756-12	GROUND STRAP	3	3																
20	D-CS-M93ØØ-Ø-1	UNIBUS "B" TERMINATOR	1	1																
21	C-IA-7414622-0-0	LOCK STUD ASSY	1	1																
22	D-CS-H325-Ø-1	TURN AROUND CONN	1	1																

TITLE KS10 PROCESSOR UNIT ASSY	ASSY NO. D-UA-KS10-Ø-Ø	SIZE <b>A</b>	CODE <b>PL</b>	NUMBER KS10-Ø-Ø	REV	ECO NO.
	SHEET 1 OF 5	DIST				

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY VARIATION																				
MADE BY J. HUSON		CHECKED <i>J. Halliday</i>		SECTION		KS10-AA (60HZ)	KS10-AB (50HZ)																	
DATE 17 NOV 77		DATE 3-17-78		1																				
ENG F. O'NEILL		PROD P. CHAPELLE		ISSUED SECT.																				
DATE 28 APR 78		DATE 4-28-78		1																				
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																						
23	E-UA-861-C-0	POWER CONTROL ASSY 115V		1	-																			
24	E-UA-861-B-0	POWER CONTROL ASSY 230V		-	1																			
25	D-IA-BC03M-25-0	CORD EXTENSION NULL MODEM		1	1																			
26	D-UA-BC03L-5	FILTERED CABLE ASSY BC03L		2	2																			
27	9007035	GROMET, CATERPILLAR		A/RA/R																				
28	D-MD-7419315-1-0	BRKT, SUPPORT MTG		1	1																			
29	D-MD-7419315-0-0	BRKT, SUPPORT MTG		1	1																			
30	A-PS-1214591-0-0	SHOCK MOUNT		4	4																			
31	D-IA-7014462-0-0	MASS BUS CABLE TROUGH ASSY		1	1																			
32	C-IA-7419497-0-0	BRACKET, VERTICAL CABLING		3	3																			
33	C-IA-7416224-0-0	SPRING RECEPICAL ASSY		1	1																			
34	C-AD-7013817-0-0	SPRING RECEPICAL ASSY		1	1																			
35	E-IA-7419500-0-0	CONSOLE DEC SYSTEM 2020 CONTROL		1	1																			
36	D-IA-7014479-0-0	ASSY H317 MTG BRKT		2	2																			
37	E-IA-7014476-0-0	ASSY P/S MOUNTING HINGE		1	1																			
38	1209750	BUMPER, RUBBER		2	2																			
39	H7130-C	POWER SUPPLY 115V		1	-																			
40	H7130-D	POWER SUPPLY 230V		-	1																			
41	9006043-1	SCR, PHL PAN HD #8-32 x 1.00		4	4																			
42	9008072	WASHER, EXT TOOTH LOCK #8		8	8																			
43	1211255-0	PRE-FILTER		1	1																			
44	9006074-01	SCR PHL TRUSS HD 10-32 x .62 LG		101	101																			
TITLE KS10 PROCESSOR UNIT ASSY				ASSY NO. D-UA-KS10-0-0		SIZE A	CODE PL	NUMBER KS10-0-0				REV	ECO NO.											
				SHEET 2 OF 5		DIST																		

DEC FORM  
DRA 110

MR

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY VARIATION																				
MADE BY J. HUSON		CHECKED <i>J. Halliday</i>		SECTION		KS10-AA (60HZ)	KS10-AB (50HZ)																	
DATE 17 NOV 77		DATE 3-17-78		1																				
ENG F. O'NEILL		PROD P. CHAPELLE		ISSUED SECT.																				
DATE 28 APR 78		DATE 4-28-78		1																				
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																						
45	9007651	WASHER, EXT TOOTH LOCK #10		95	95																			
46	9006565	KEPNUT, #10-32		48	48																			
47	9007786	TINNERMAN NUT, #10-32		43	43																			
48	9008203	KEPNUT, #1/4-20		8	8																			
49	1213121-01	FILTER, FOAM		1	1																			
50	1212431-02	TAPE HOOK MOLDED		A/RA/R																				
51	1211255-03	FILTER RUBBER FOAM		1	1																			
52	9007798	WASHER, NYLON		1	1																			
53	E-AD-7013688-0-0	INTER LOCK KIT		1	1																			
54	9007772-13	DAKOTA CLAMP		3	3																			
55	D-IA-7011223-2	BASKET WIRE CABLE		1	1																			
56	B-IA-7419496-0-0	BASKET BRACKET		2	2																			
57	3613272	LABEL GROUND		3	3																			
58	D-IA-7015170-0-0	WELDMENT CABLE BRACKET		1	1																			
59	DZ11-AA	8 LINE ASYNC EIA GROUP		1	1																			
60	D-IA-7014482-0-0	SWITCH PANEL ASSY		1	1																			
61	C-AD-7014491-0-0	CABLE CLAMP ASSY		6	6																			
62	C-MD-7413983-0-0	ENCLOSURE CLAMP		6	6																			
63	9007897	NYLOK NUT 1/4-20		2	2																			
64	D-PS-1214914-0-0	AIR DUCT (KS10)		1	1																			
65	9006560	KEPNUT #6-32		4	4																			
66	9006056-01	SCR PHL PAN HD 1/4-20 x 50 LG		6	6																			
TITLE KS10 PROCESSOR UNIT ASSY				ASSY NO. D-UA-KS10-0-0		SIZE A	CODE PL	NUMBER KS10-0-0				REV	ECO NO.											
				SHEET 3 OF 5		DIST																		

DEC FORM  
DRA 110

MR



DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY VARIATION																						
MADE BY <i>J. Huson</i>		CHECKED <i>J. Halliday</i>		SECTION		KS10-AA (60HZ)	KS10-AB (50HZ)																			
DATE <i>17 Nov 78</i>		DATE <i>7-17-78</i>		ISSUED SECT.																						
ENG <i>F. Ouellet</i>		PROD <i>P. CHAPPELLE</i>																								
DATE <i>28 Apr 78</i>		DATE <i>4-28-78</i>																								
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																								
67	9006724	LOCKWASHER EXT TOOTH 1/4		9	9																					
68	9007032	CABLE TIES MED 6 3/4 LONG		50	50																					
69	9009350	CABLE TIES LARGE		50	50																					
70	9007867	PUSH MOUNT		37	37																					
71	9009970	CLIP "U" SPEED		10	10																					
72	E-MD-7415471-0-0	STRIP, DOOR CLOSING		1	1																					
73	D-IA-7014323-0-0	BLOWER POWER CORD 115V		1	-																					
74	9006593	HEX NUT 3/8-16		4	4																					
75	9008922-09	HEX HD SCREW 3/8-16 x 1.00 LG		4	4																					
76	E-UA-KS10-PA-0	CENTRAL PROCESSOR ASSY		1	1																					
77	C-MD-7419826-0-0	CLIP, CABLE (MASS BUS)		2	2																					
78	D-IA-7015137-0-0	POWER CORD, POWER SUPPLY		1	-																					
79	A-PS-3613210-0-0	LABEL, ADHESIVE BACKED, ELEC. DATA		2	2																					
80	D-IA-7015325-0-0	POWER SUPPLY POWER CORD		-	1																					
81	A-DC-7417095-0-0	CAUTION HIGH LEAKAGE DECAL		-	1																					
82	A-PL-DD11-DK-0	UNIT ASSY, DD11-DK(9 SLOT)		1	1																					
83	D-IA-7014324-0-0	BLOWER POWER CORD 230V		-	1																					
84	9007959	WASHER, EXT TOOTH LOCK .45 ID		4	4																					
85	9006074-02	SCR, FLAT HD PHL #10-32 x .62 LONG		6	6																					
86	C-IA-7008288-8F	CABLE ASSY		1	1																					
87	C-IA-7015508-0-0	CABLE ASSY 86I TO PWR DIST BD		1	1																					
88	9006563	KEP NUT #8-32		4	4																					
TITLE KS10 PROCESSOR UNIT ASSY				ASSY NO. D-UA-KS10-0-0		SIZE <b>A</b>	CODE <b>PL</b>	NUMBER KS10-0-0				REV	ECO NO.													
SHEET 4 OF 5				DIST																						

DEC FORM  
DRA 110

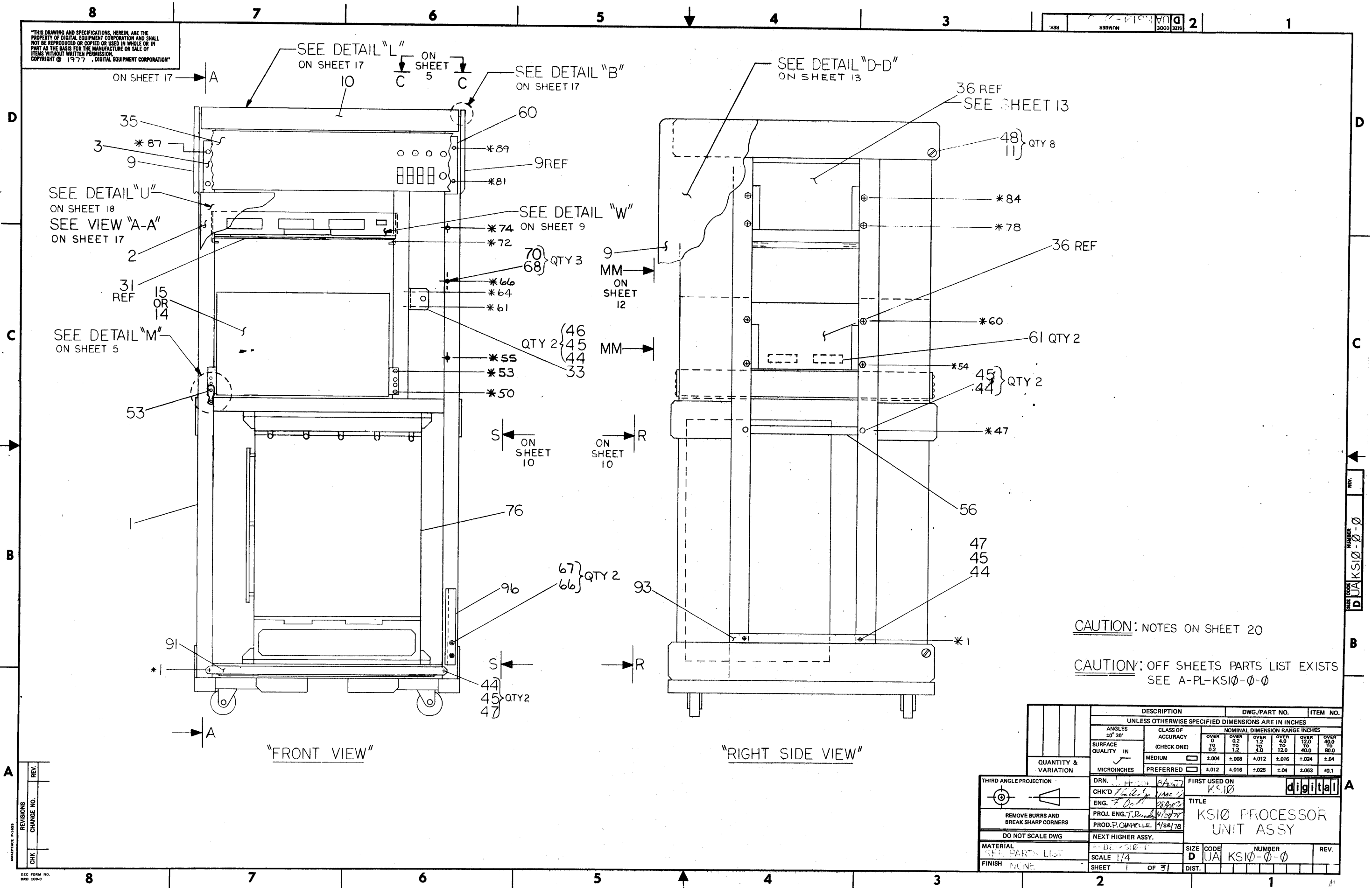
mR

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY VARIATION																					
MADE BY <i>J. Huson</i>		CHECKED <i>J. Halliday</i>		SECTION		KS10-AA (60HZ)	KS10-AB (50HZ)																		
DATE <i>17 Nov 78</i>		DATE <i>3-17-78</i>		ISSUED SECT.																					
ENG <i>F. Ouellet</i>		PROD <i>P. CHAPPELLE</i>																							
DATE <i>28 Apr 78</i>		DATE <i>4-28-78</i>																							
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																							
89	9006248-09	SCREW HEX HD 1/4-20 x 1 5/8		1	1																				
90	D-IA-7420372-0-0	MASS BUS CABLE TROUGH CLAMP		1	1																				
91	D-MD-7420636-0-0	SCREEN, FRONT DRIP		1	1																				
92	C-MD-7420390-0-0	BRACKET, INTERLOCK (BALLK)		1	1																				
93	D-MD-7419286-0-0	INTER CABINET DRIP SHEILD		2	2																				
94	A-SP-3615670-0-0	FIBERGLASS PROTECTIVE TAPE		A/R	A/R																				
95	BC05D-25	EIA EXTENSION CABLE		1	1																				
96	C-MD-7418685-0-0	STRIP, DOOR CLOSING		1	1																				
97	9008264	ADHESIVE BACKED MOUNT		43	43																				
98	9007594	HYBOND ADHESIVE		A/R	A/R																				
99	9006035-01	SCR, PAN HD PHL 8-32 X 25 LONG		4	4																				
100	9006637	WASHER, INT TOOTH LOCK		4	4																				
TITLE KS10 PROCESSOR UNIT ASSY				ASSY NO. D-UA-KS10-0-0		SIZE <b>A</b>	CODE <b>PL</b>	NUMBER KS10-0-0				REV	ECO NO.												
SHEET 5 OF 5				DIST																					

DEC FORM  
DRA 110

mR

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CAUTION: NOTES ON SHEET 20

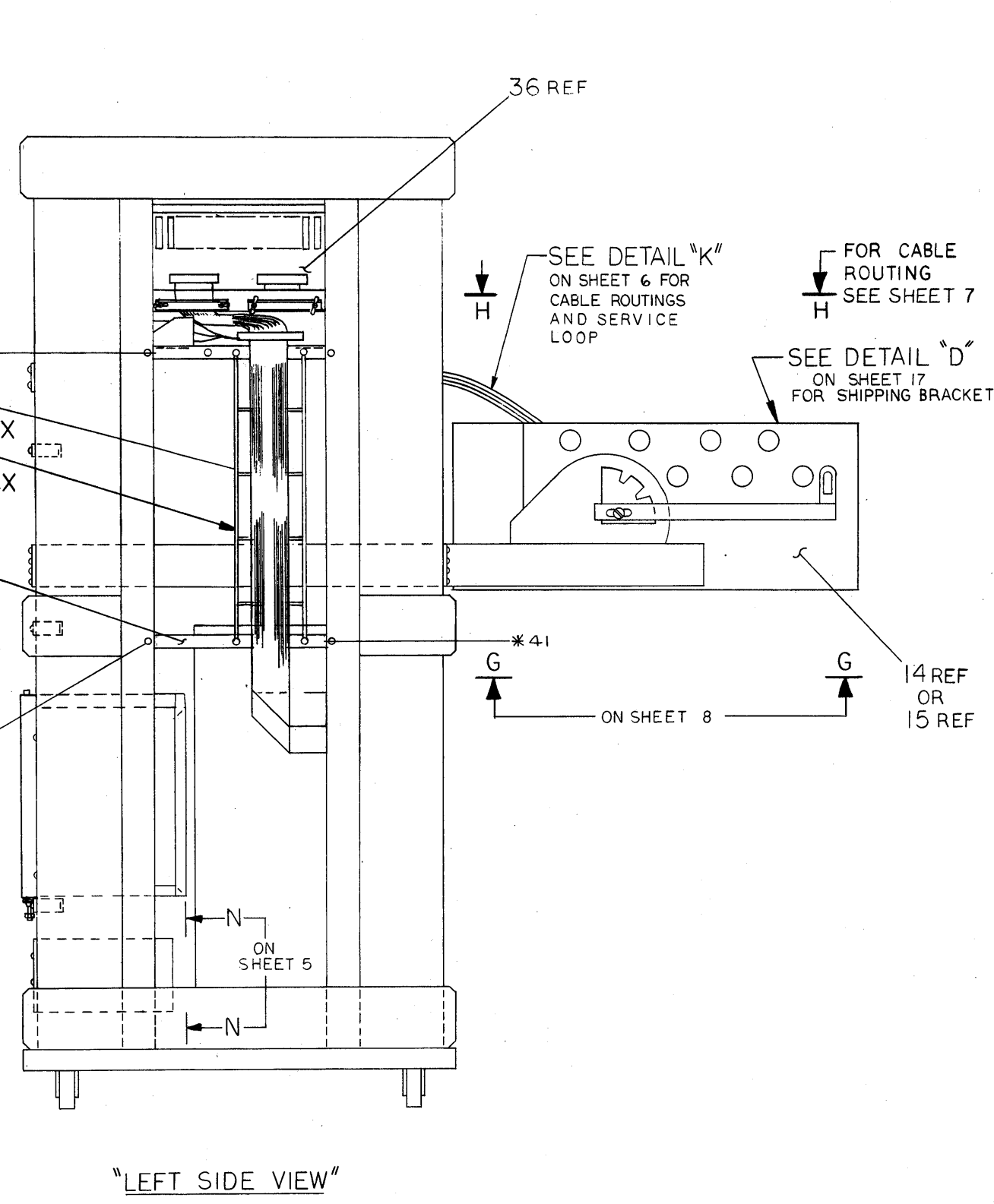
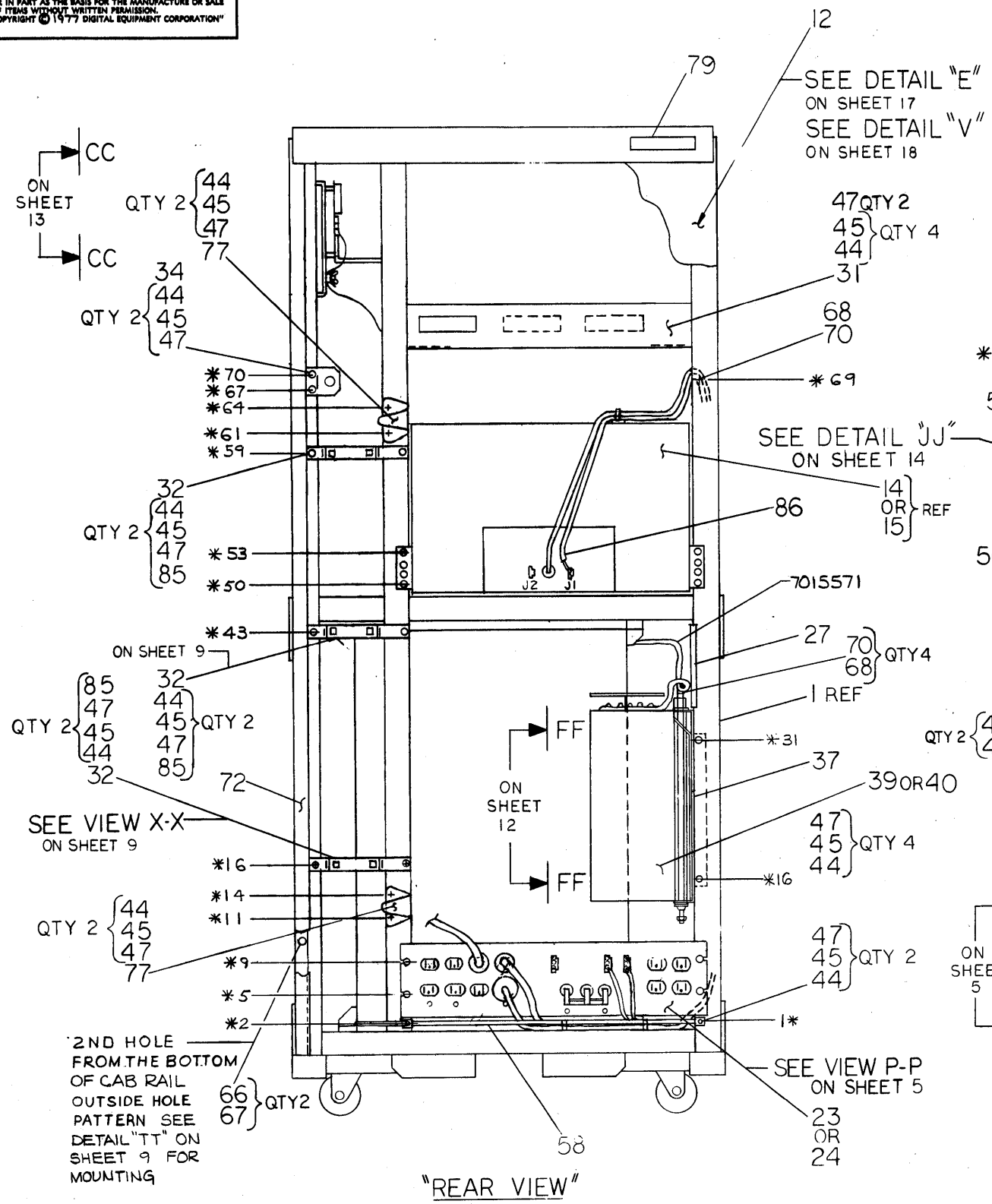
CAUTION: OFF SHEETS PARTS LIST EXISTS SEE A-PL-KS10-0-0

REV.	CHANGE NO.	REVISIONS

QUANTITY & VARIATION		DESCRIPTION		DWG./PART NO.	ITEM NO.
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 45° 30'		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN MICROINCHES		MEDIUM <input type="checkbox"/> ±.004 ±.008 ±.012 ±.016 ±.024 ±.04		OVER 0 TO 0.2 OVER 0.2 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	
THIRD ANGLE PROJECTION <input checked="" type="checkbox"/>		PREFERRED <input type="checkbox"/> ±.012 ±.016 ±.025 ±.04 ±.063 ±.1			
REMOVE BURRS AND BREAK SHARP CORNERS		DRN. <i>EA</i>		FIRST USED ON <b>KS10</b>	
DO NOT SCALE DWG		CHK'D <i>JMC</i>		TITLE <b>KS10 PROCESSOR UNIT ASSY</b>	
MATERIAL SEE PARTS LIST		PROJ. ENG. <i>J. Daniels</i>		SIZE CODE <b>D</b>	
FINISH NONE		PROD. ROWELLE <i>4/28/78</i>		NUMBER <b>UA KS10-0-0</b>	
		NEXT HIGHER ASSY. <b>2510-C</b>		REV. <b>1</b>	
		SCALE <b>1/4</b>		DIST. <b>1</b>	
		SHEET <b>1</b> OF <b>31</b>			

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Ø-Ø-Ø1 2



"REAR VIEW"

"LEFT SIDE VIEW"

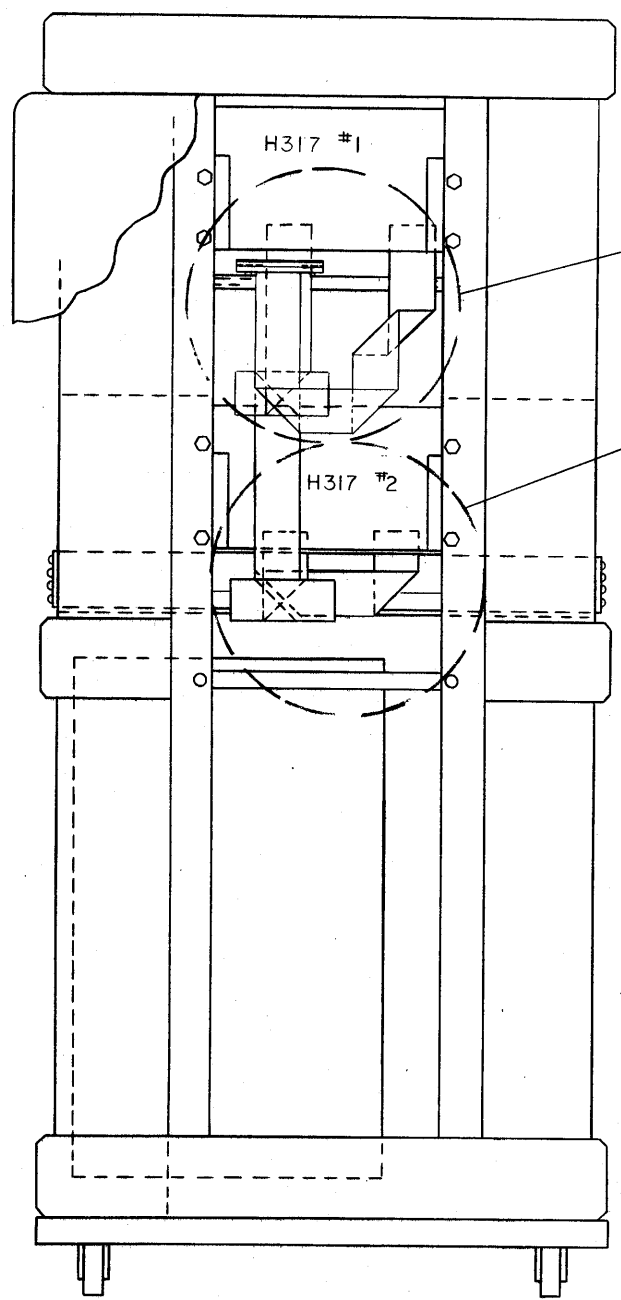
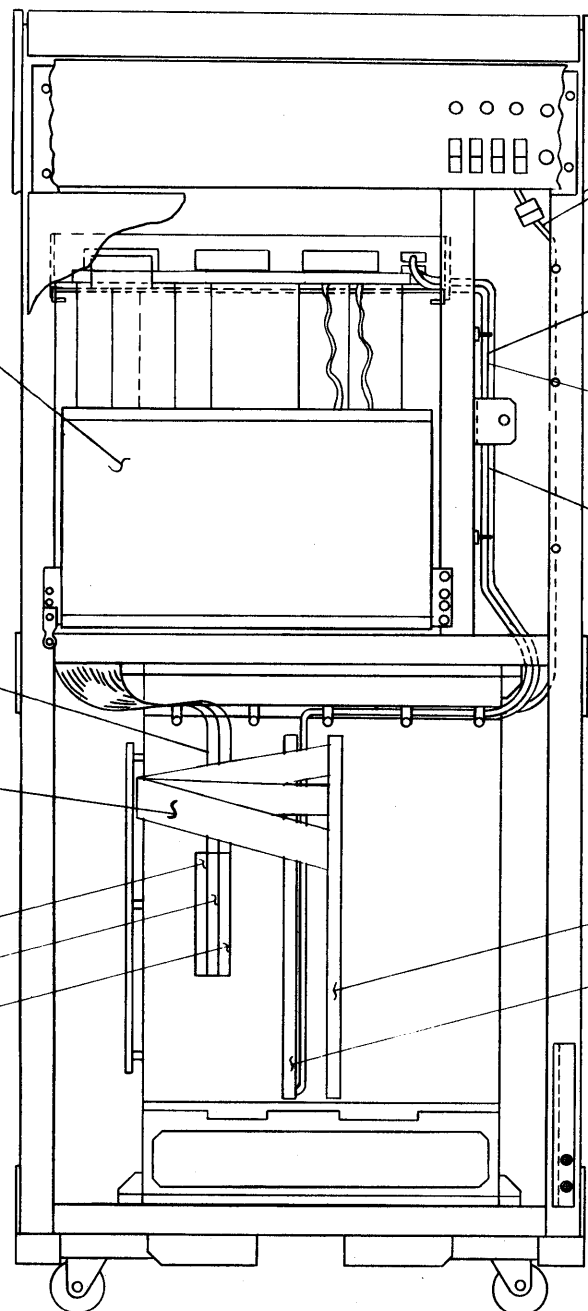
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KS10 PROCESSOR UNIT ASSY	SIZE CODE	D UA	NUMBER	KS10-Ø-Ø	REV.	
SCALE	1/4	SHEET	2 OF 31	DIST.			

REV. NUMBER  
 D UA KS10-Ø-Ø

MR

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- 7015108
- KLINIK REF26
- SEE VIEW MM-MM ON SHEET 12
- 26 QTY 2
- REF 26 CTY
- 50
- 43
- BCØ6R-5 REF
- BCØ5L-1Ø REF
- M59Ø4
- M59Ø4
- M59Ø4
- M8619 (2ND UBA)
- M8619 (1ST UBA)

SEE DETAIL "EE" ON SHEET 15 FOR CABLE FOLDS SEE NOTE 9

SEE DETAIL "PP" ON SHEET 16 FOR CABLE FOLDS SEE NOTE 9

"FRONT VIEW"  
FOR CABLING SEE TO FROM CHART ON SHEET 14

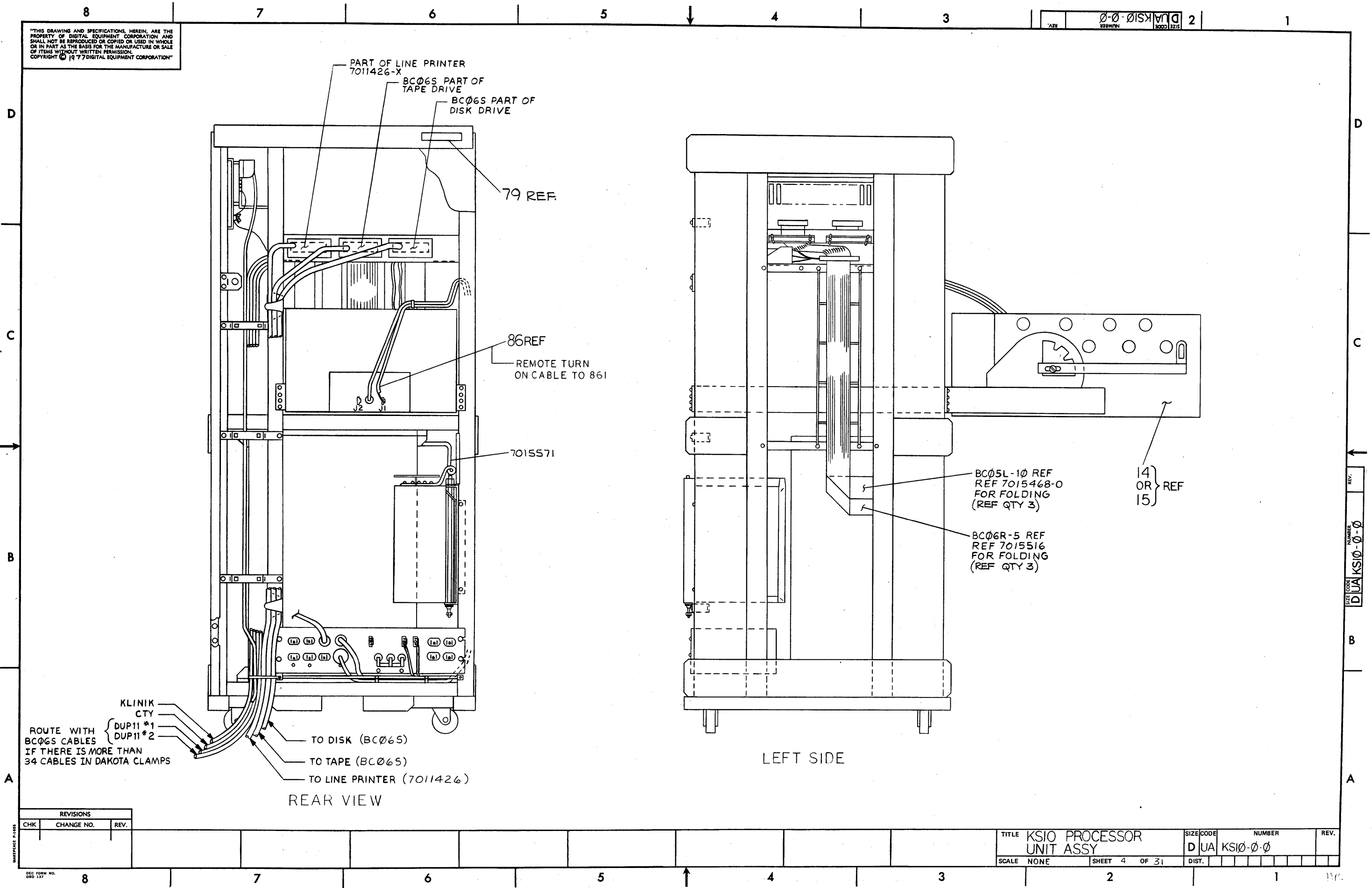
"RIGHT SIDE VIEW"

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIO PROCESSOR UNIT ASSY	SIZE CODE	D UA	NUMBER	KSIO-Ø-Ø	REV.	
SCALE	NONE	SHEET	3 OF 31	DIST.			

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0-0-0 KSI0-0-0 2



PART OF LINE PRINTER  
7011426-X  
BC06S PART OF  
TAPE DRIVE  
BC06S PART OF  
DISK DRIVE

79 REF.

86 REF  
REMOTE TURN  
ON CABLE TO 861

7015571

BC05L-10 REF  
REF 7015468-0  
FOR FOLDING  
(REF QTY 3)

BC06R-5 REF  
REF 7015516  
FOR FOLDING  
(REF QTY 3)

14  
OR  
15 } REF

KLINIK  
CTY  
ROUTE WITH  
BC06S CABLES  
IF THERE IS MORE THAN  
34 CABLES IN DAKOTA CLAMPS

TO DISK (BC06S)  
TO TAPE (BC06S)  
TO LINE PRINTER (7011426)

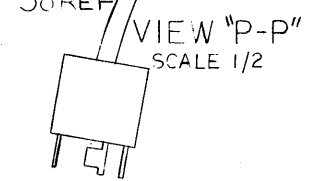
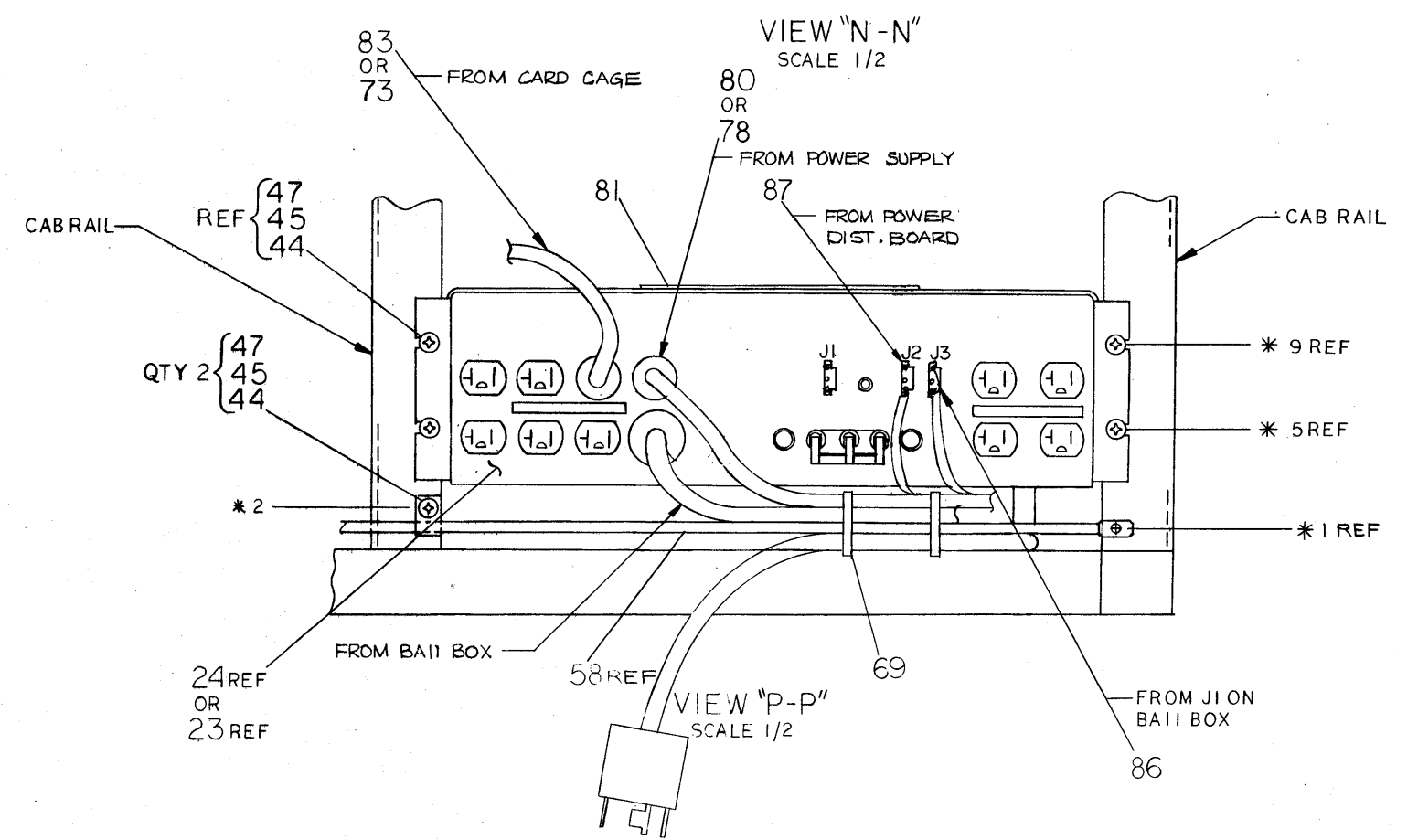
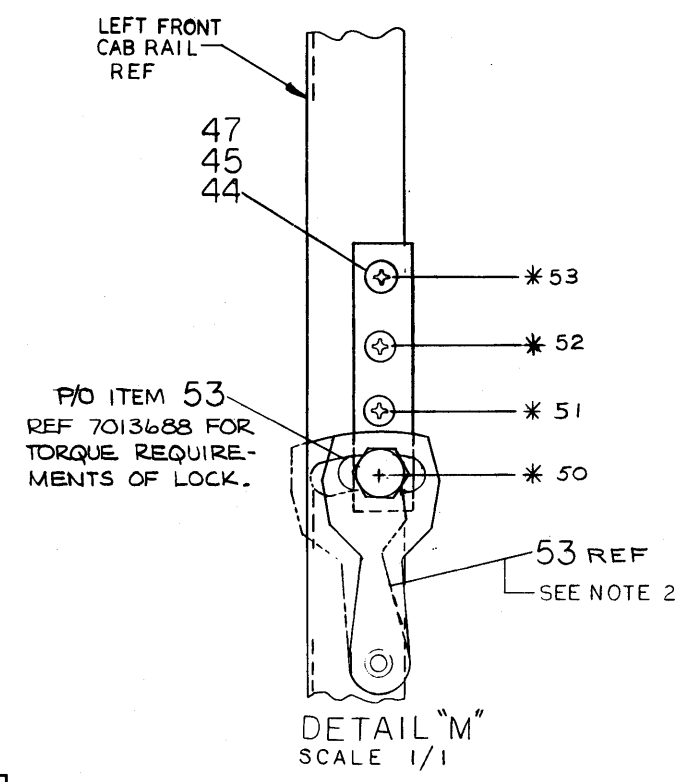
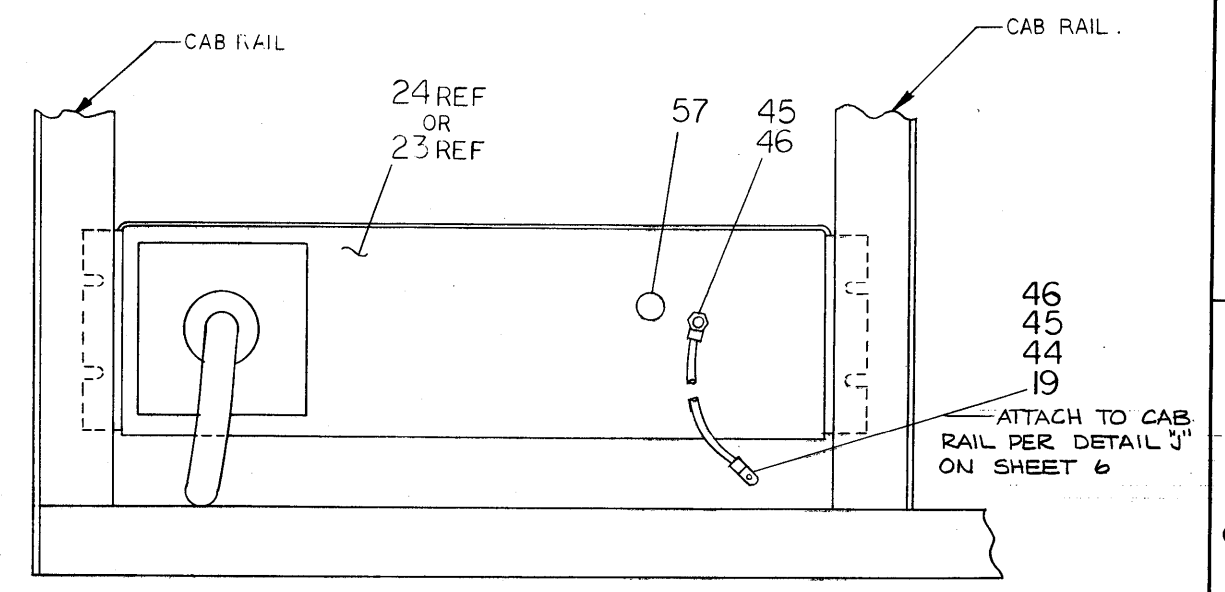
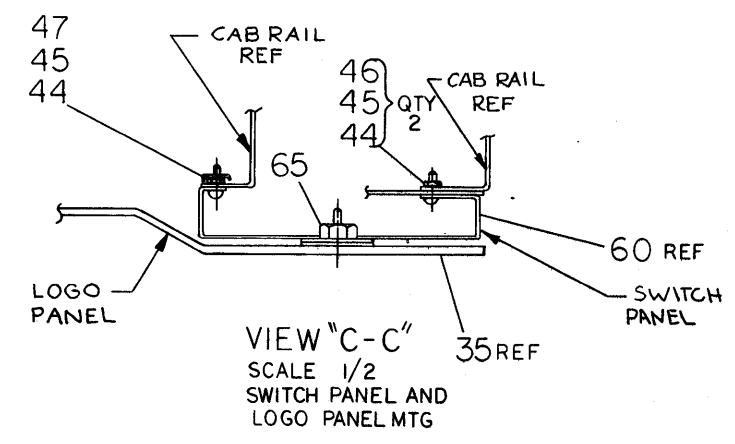
LEFT SIDE

REAR VIEW

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIO PROCESSOR UNIT ASSY	SIZE CODE	D UA	NUMBER	KSIO-0-0	REV.	
SCALE	NONE	SHEET	4	OF	31	DIST.	

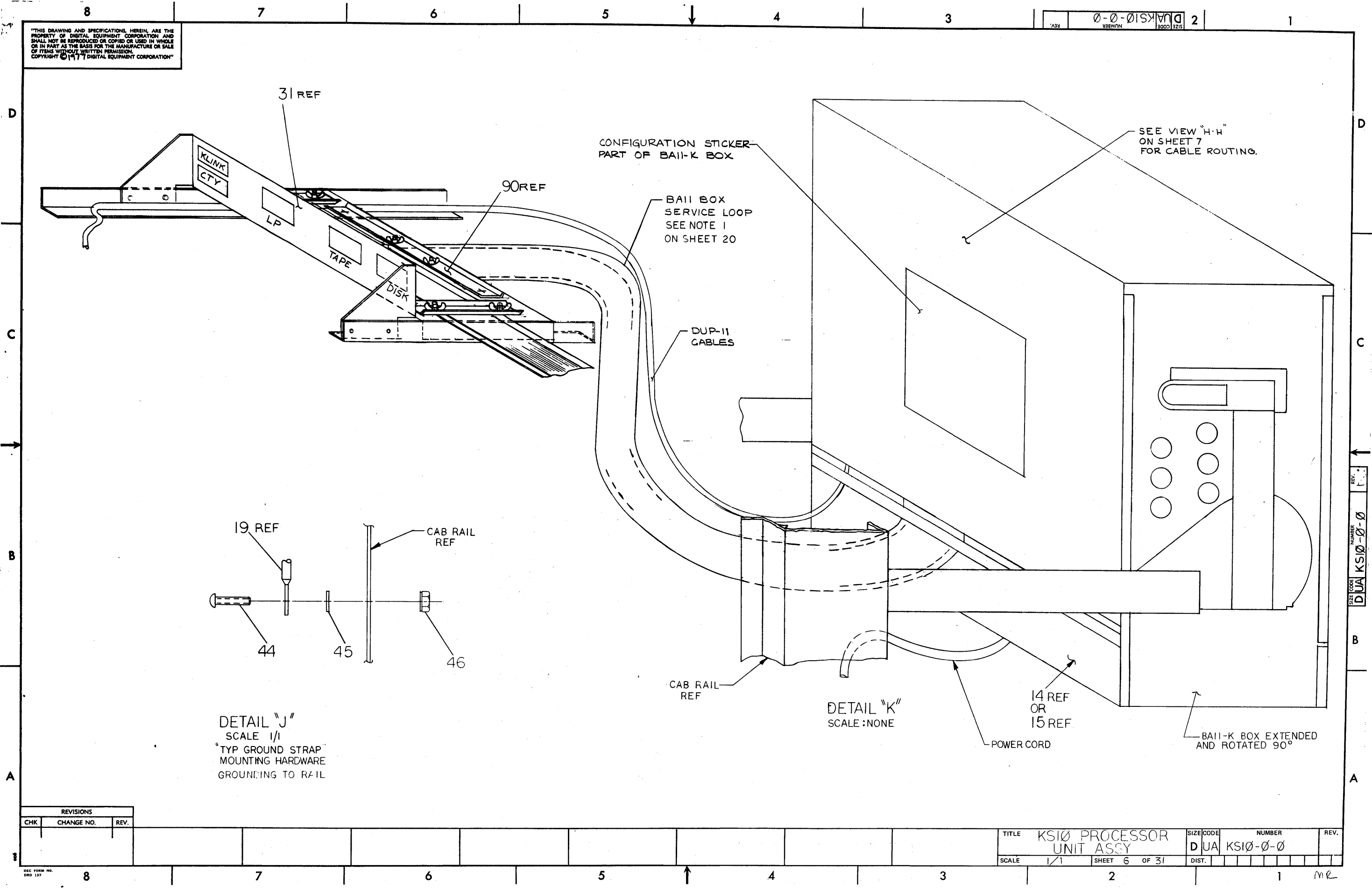
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REVISIONS		
CHK	CHANGE NO.	REV.

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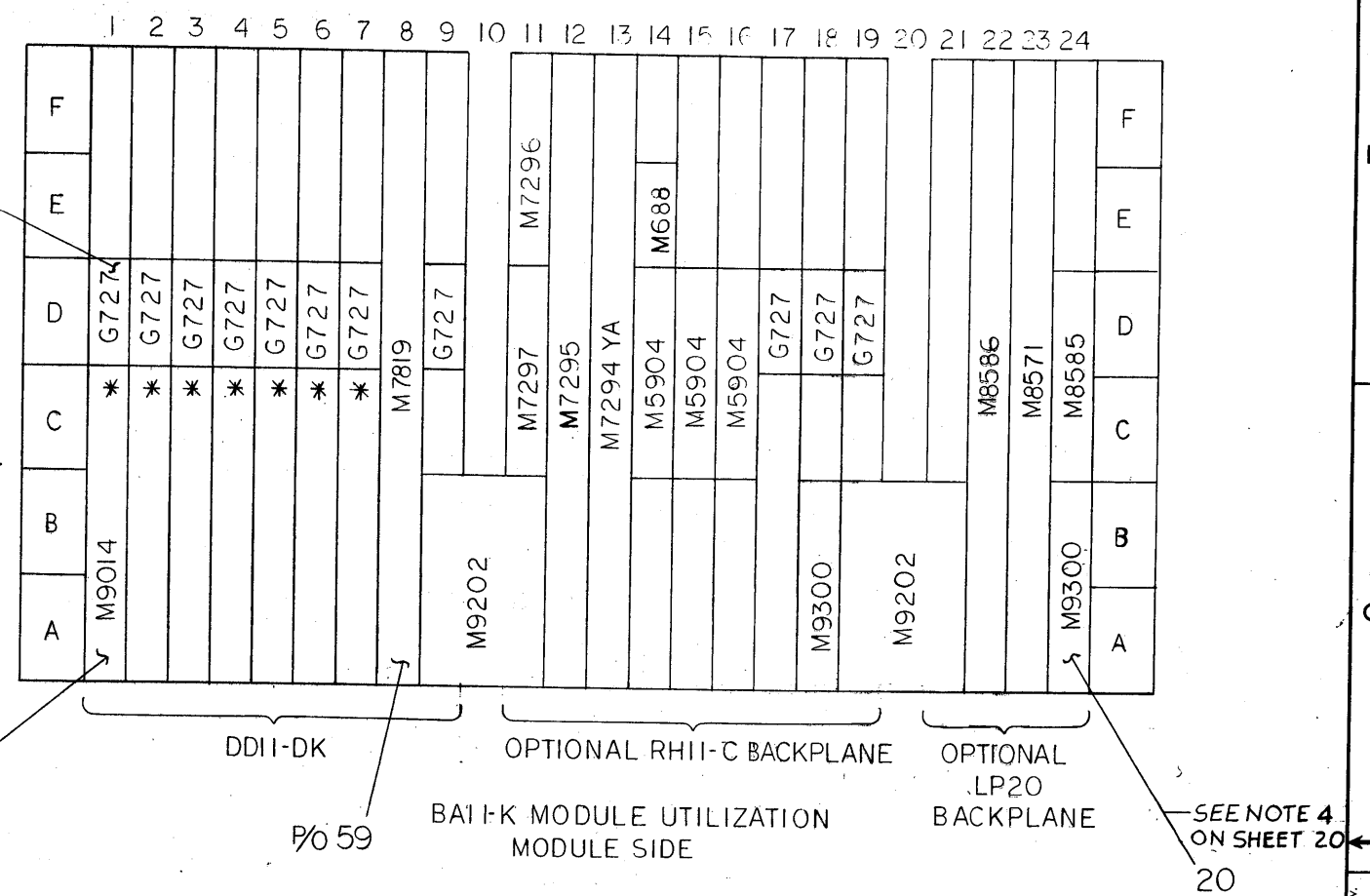
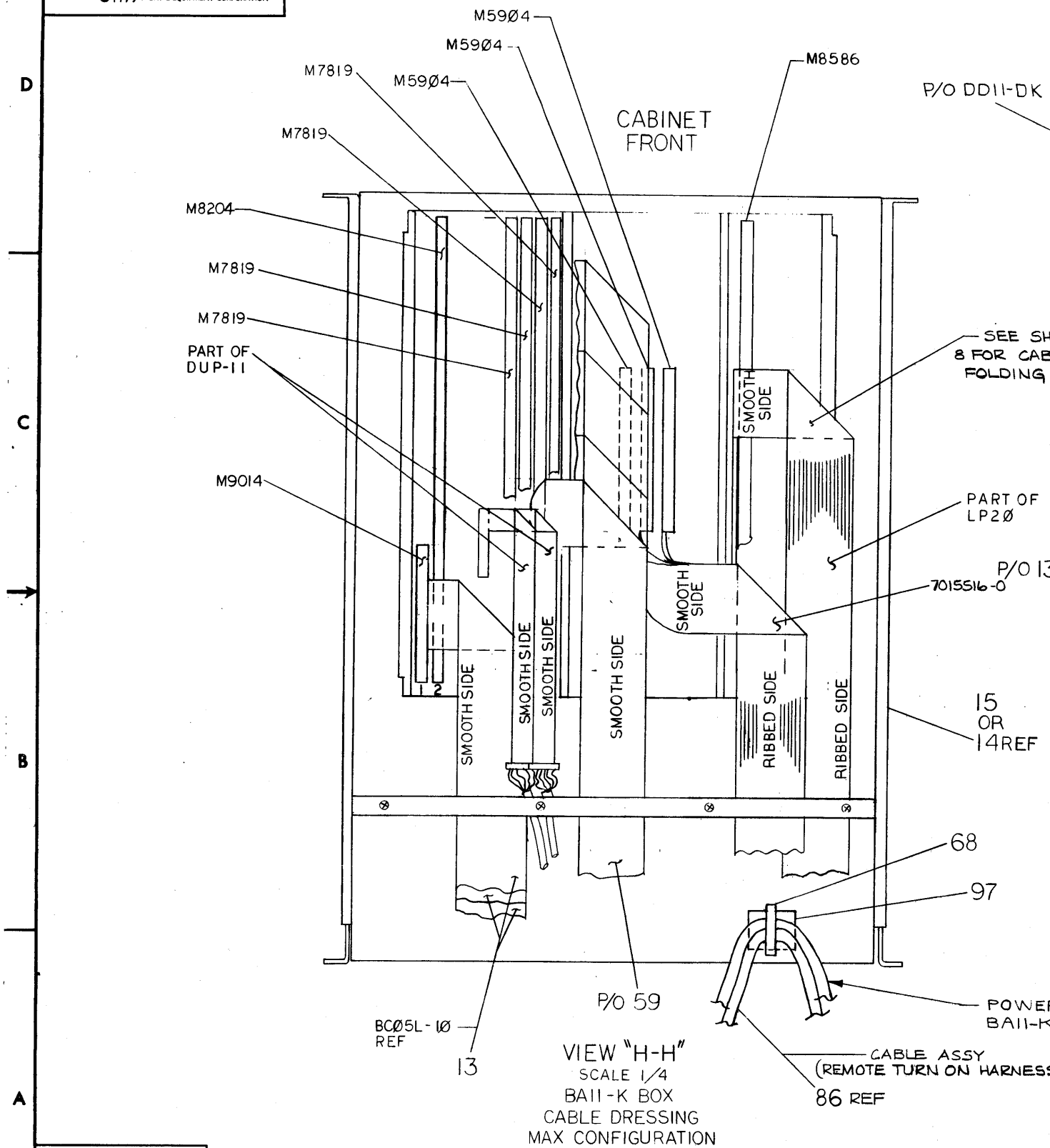
REV. 0-0-0 KSIØ-Ø-Ø 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY	SIZE CODE	DUA	NUMBER	KSIØ-Ø-Ø	REV.	
SCALE	1/1	SHEET	6	OF	31	DIST.	

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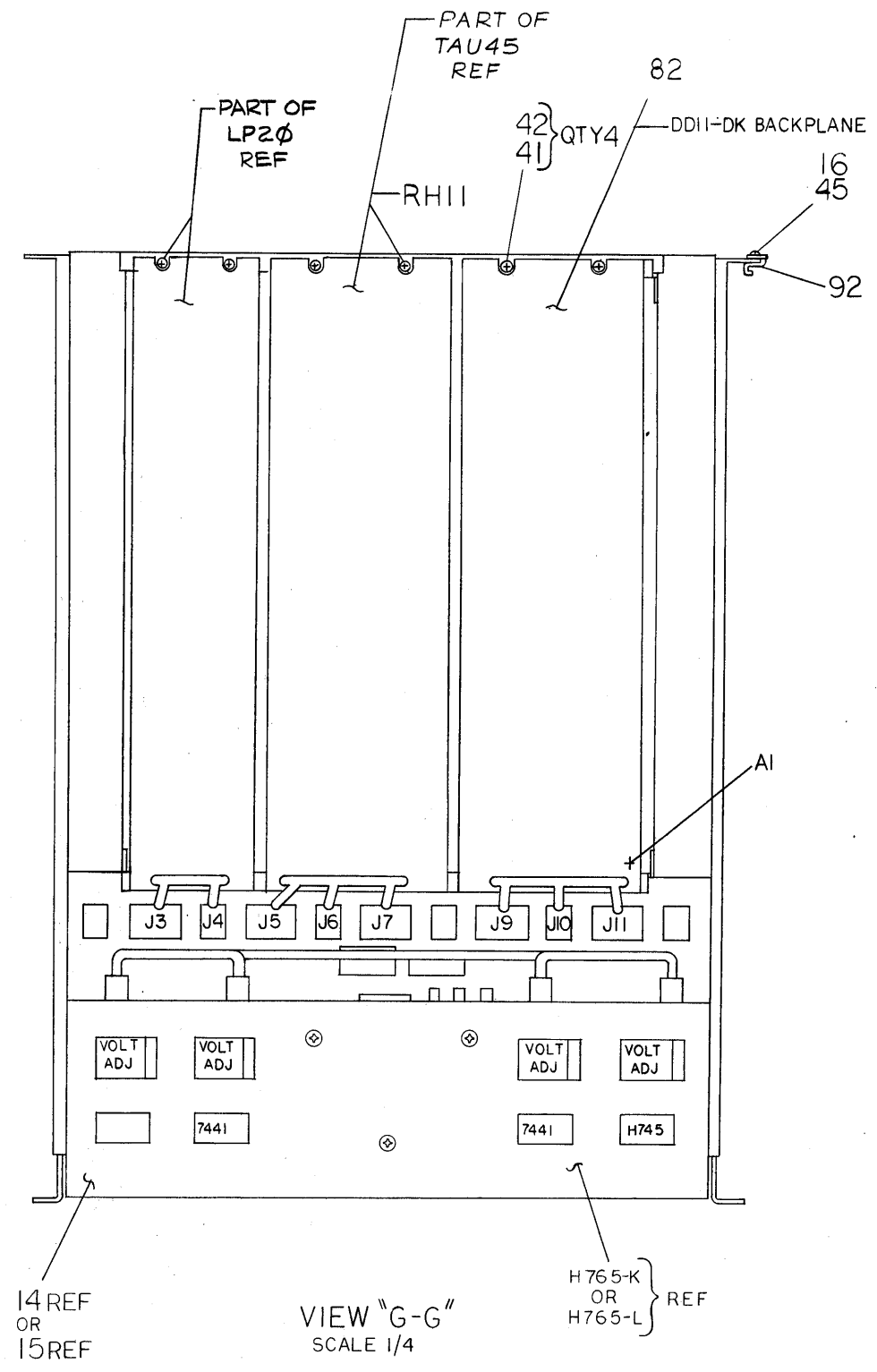
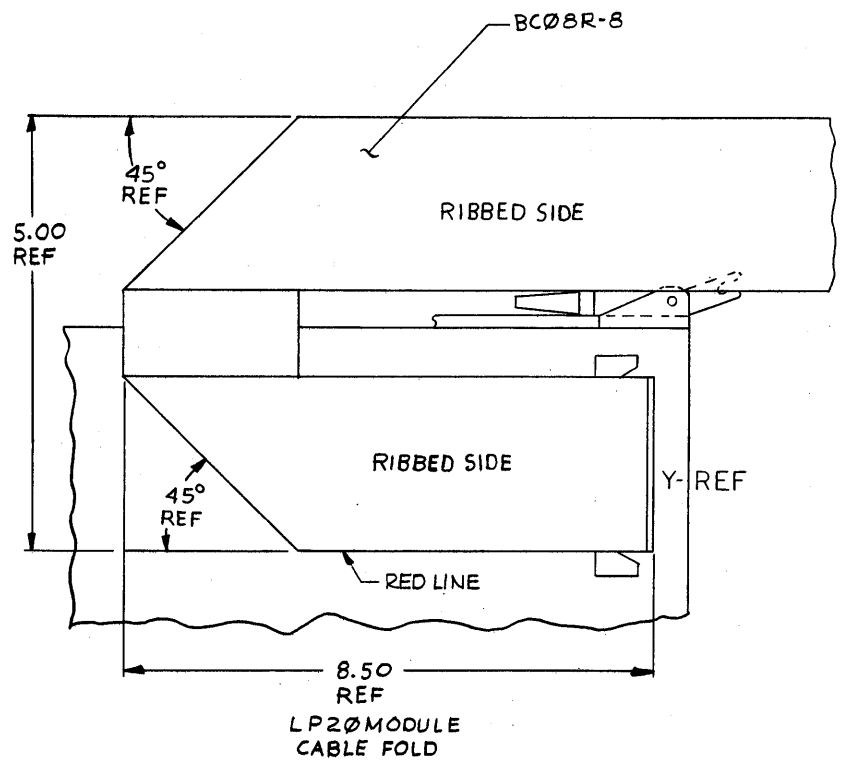
OPTION VARIATIONS *					
SLOTS	ASYNC LINES 8-15	ASYNC LINES 16-23	ASYNC LINES 24-32	1 <sup>ST</sup> SYNC	2 <sup>ND</sup> SYNC
2				M8204 KMCI1	
3					M7867 DUP11
4				M7867 DUP11	
5			M7819 DZ11		
6		M7819 DZ11			
7	M7819 DZ11				
8	M7819 STD				

REVISIONS		
CHK	CHANGE NO.	REV.



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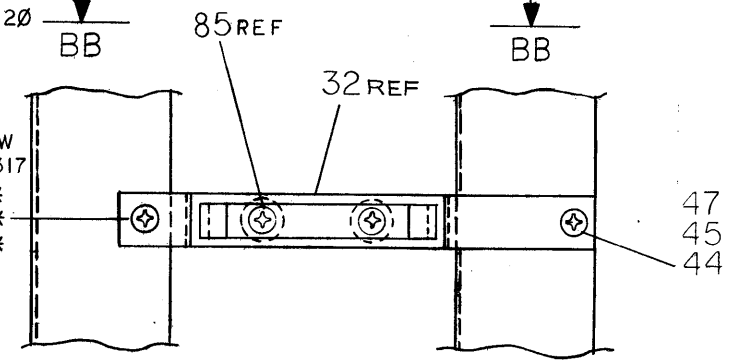
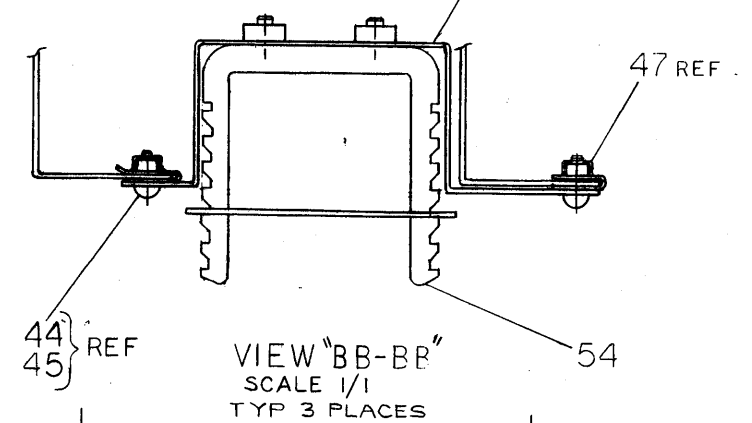
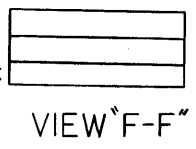
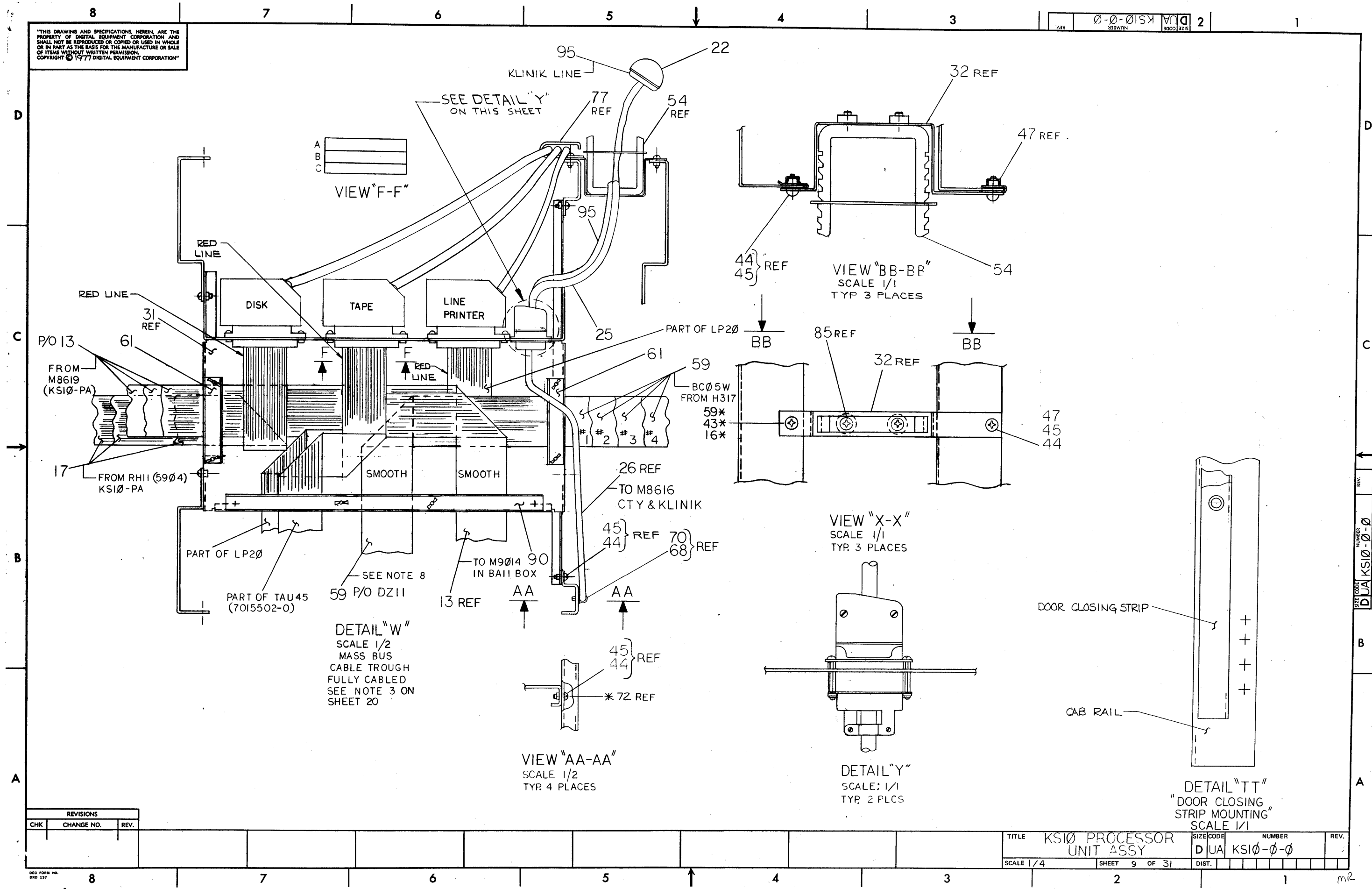
REV. NUMBER 0-0-0 KSI0-0-0 3000 3215 2



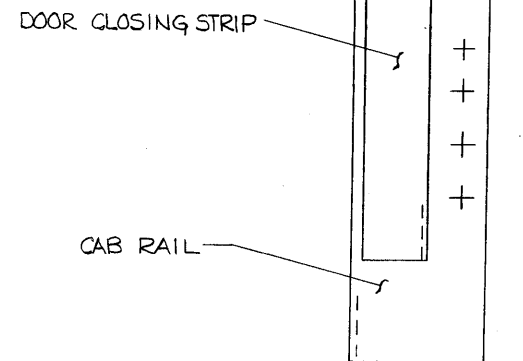
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE KSI0 PROCESSOR UNIT ASSY  
 SCALE 1/4 SHEET 8 OF 31  
 SIZE CODE D UA  
 NUMBER KSI0-0-0  
 DIST. M2

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DETAIL "W"  
 SCALE 1/2  
 MASS BUS  
 CABLE TROUGH  
 FULLY CABLED  
 SEE NOTE 3 ON  
 SHEET 20

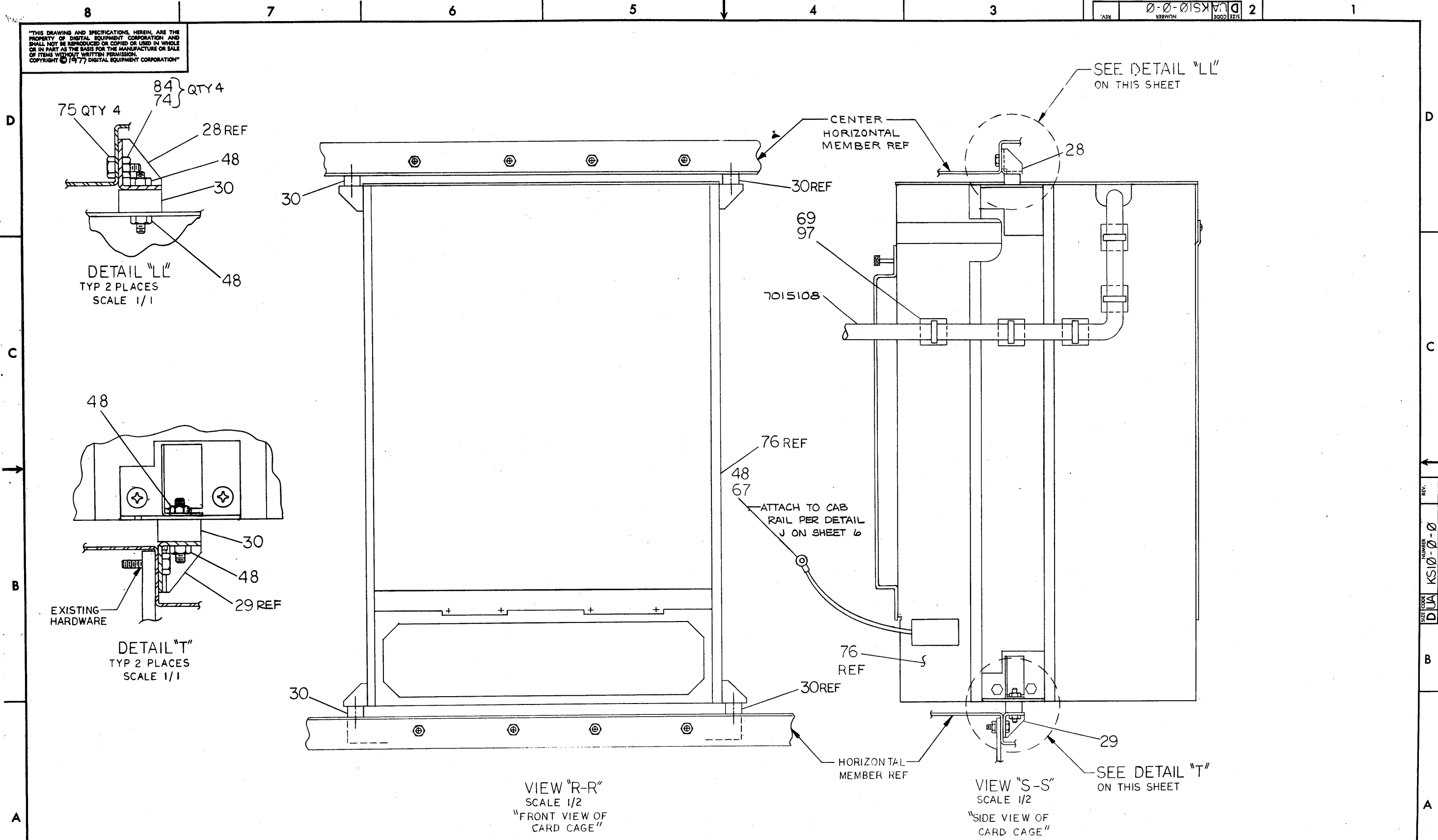


DETAIL "TT"  
 "DOOR CLOSING  
 STRIP MOUNTING"  
 SCALE 1/1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY	SIZE CODE	DUA	NUMBER	KSIØ-Ø-Ø	REV.	
SCALE	1/4	SHEET	9	OF	31	DIST.	

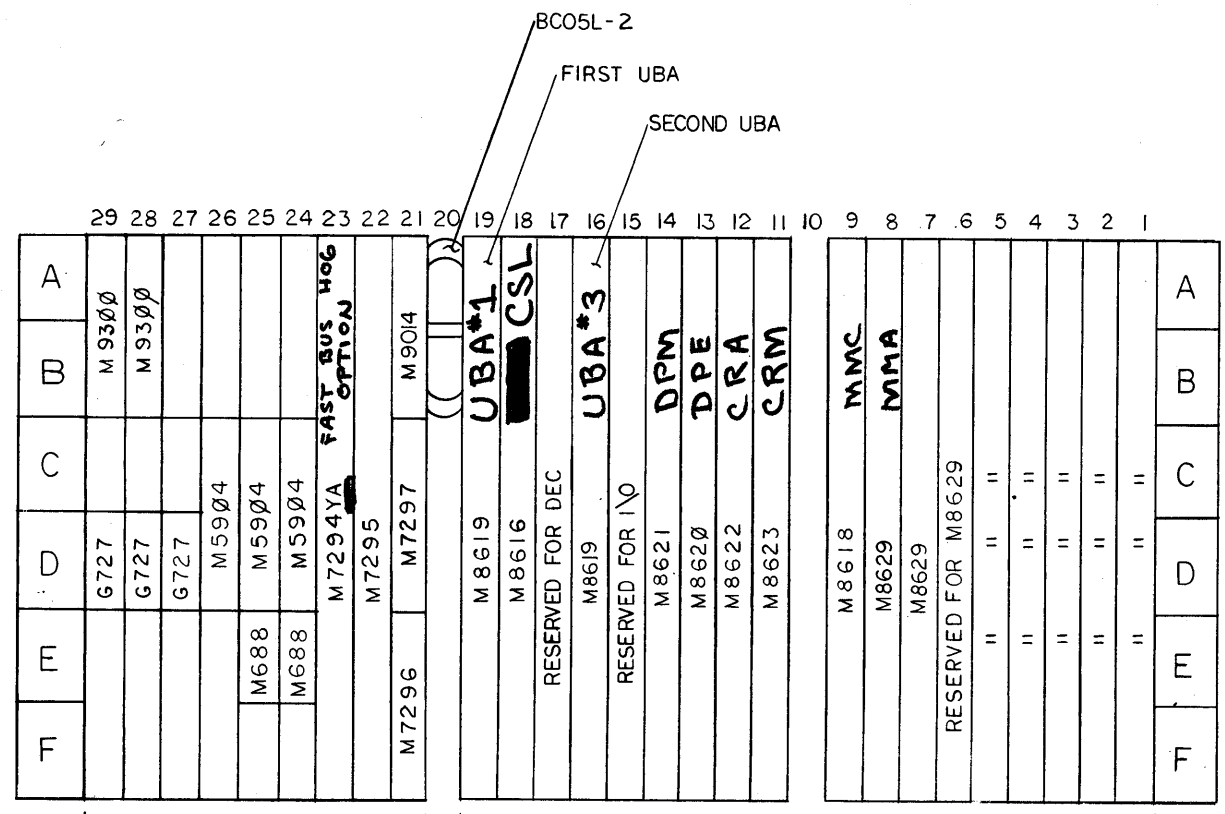
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REVISIONS		
CHK	CHANGE NO.	REV.

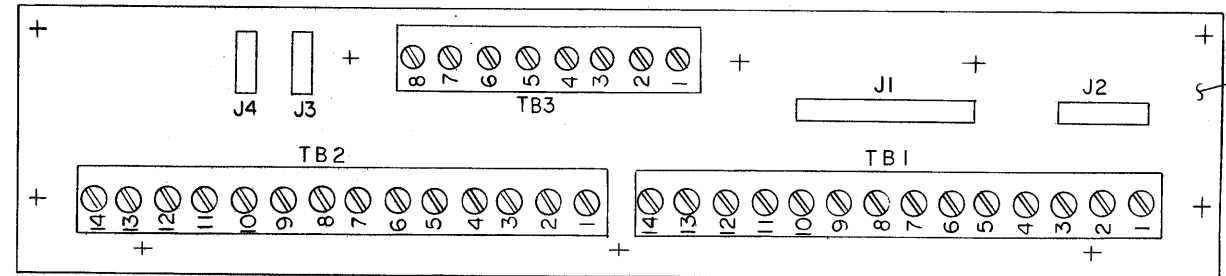
TITLE	KS10 PROCESSOR UNIT ASSY	SIZE CODE	D UA	NUMBER	KS10-0-0	REV.	
SCALE	1/4	SHEET	10	OF	31	DIST.	

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REGULAR HEX BOARDS "CARD CAGE BACKPLANE" EXTENDED HEX BOARDS  
RH11-A

KS10-PA M.U.  
FOR REFERENCE  
MODULE SIDE



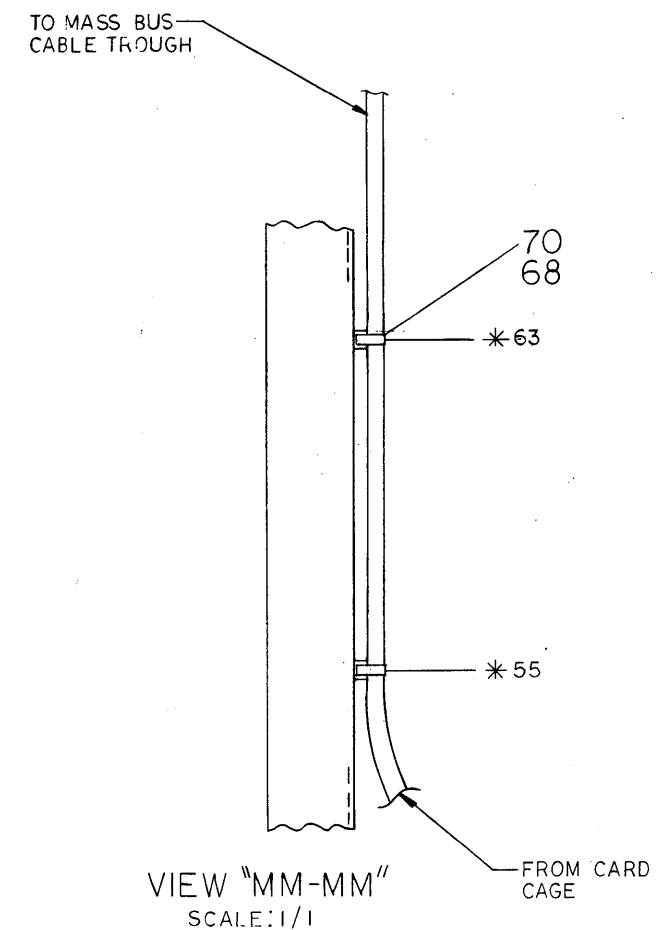
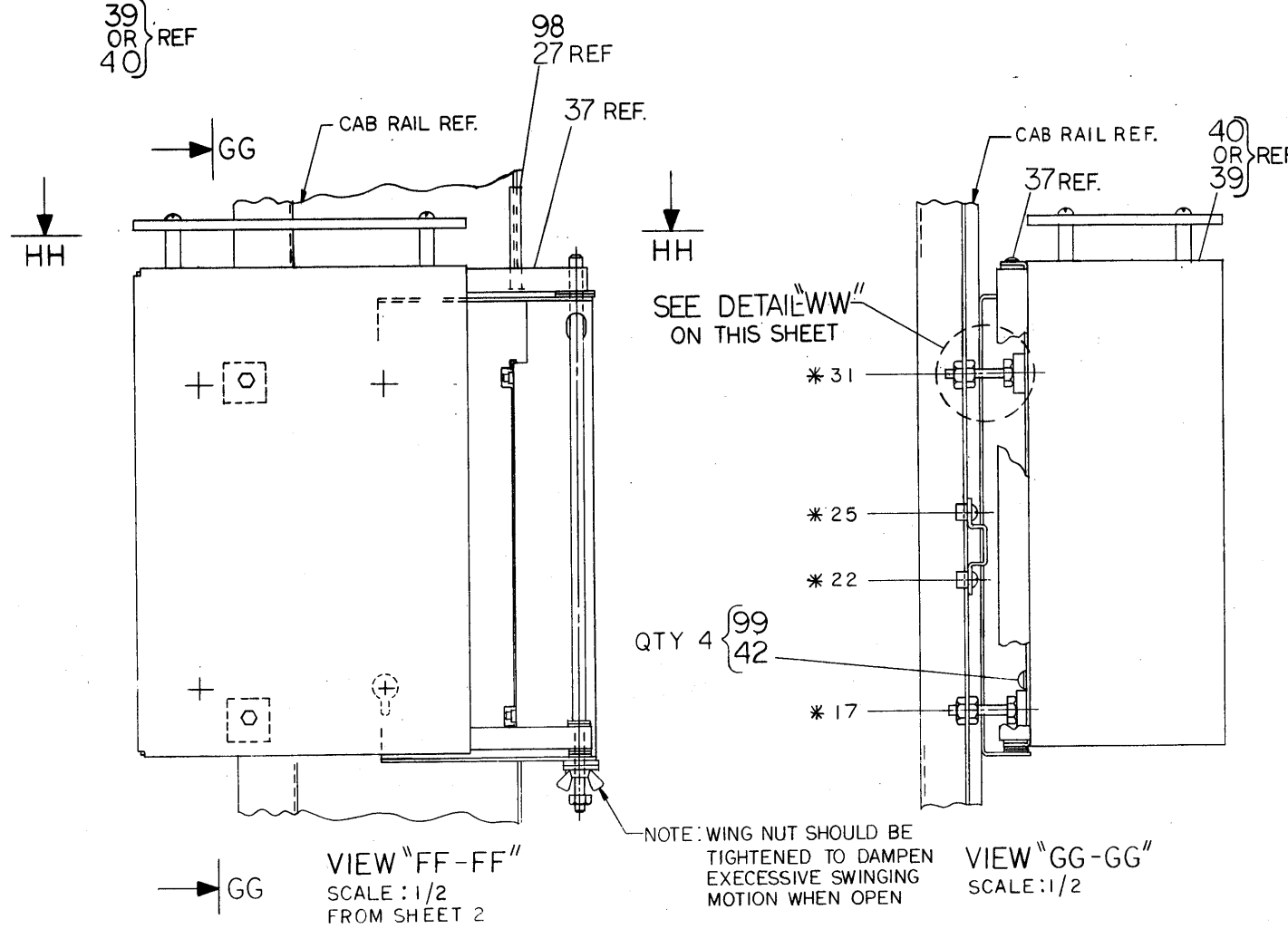
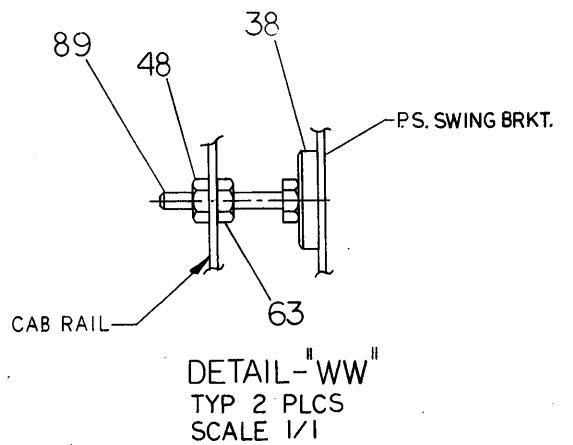
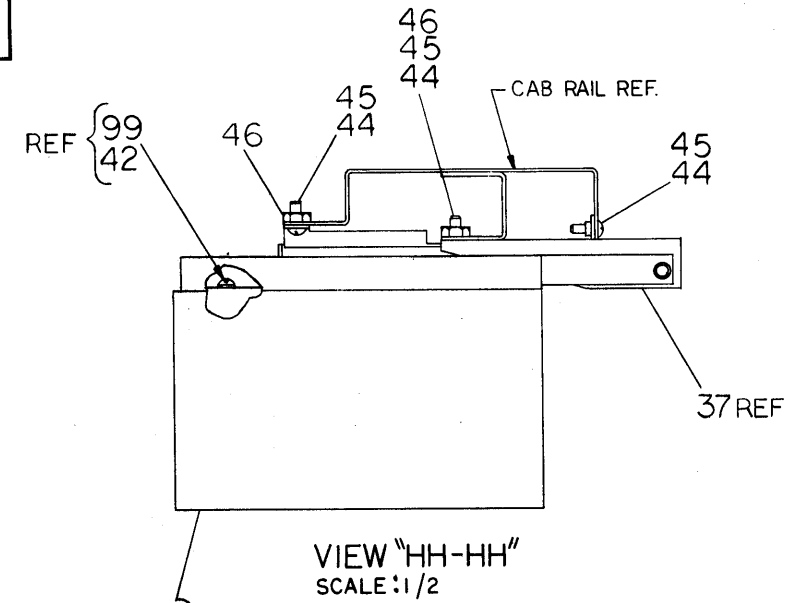
POWER DISTRIBUTION BOARD  
TERMINAL BLOCK DESIGNATIONS.

PART OF  
KS10-PA  
ITEM#76

REVISIONS		
CHK	CHANGE NO.	REV.

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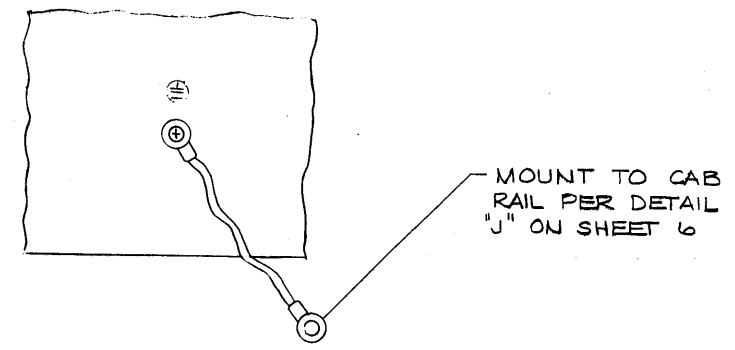
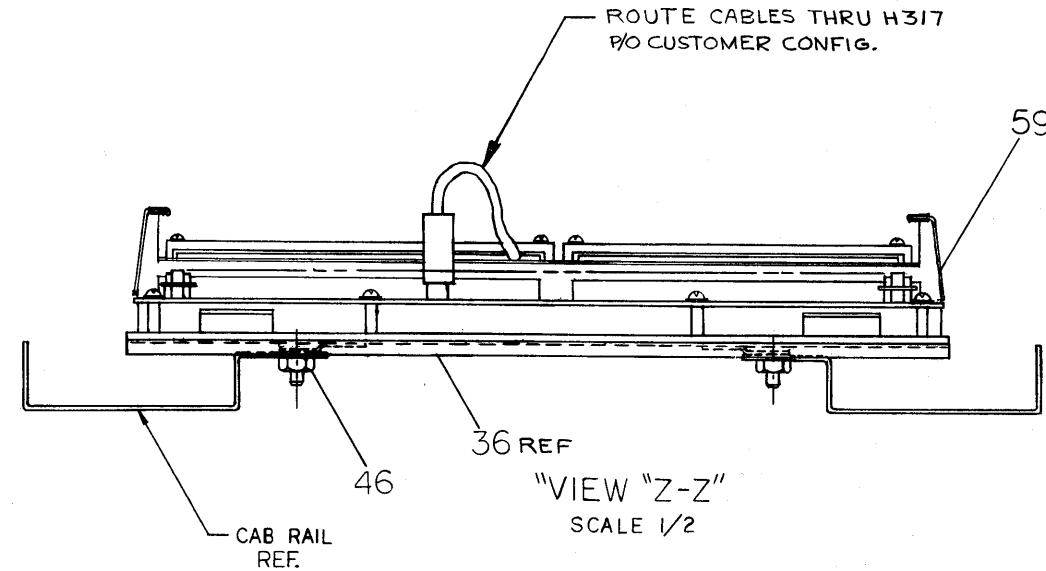
REV. 2  
 SIZE CODE DUA KSIØ-Ø-Ø  
 NUMBER 3000 2215



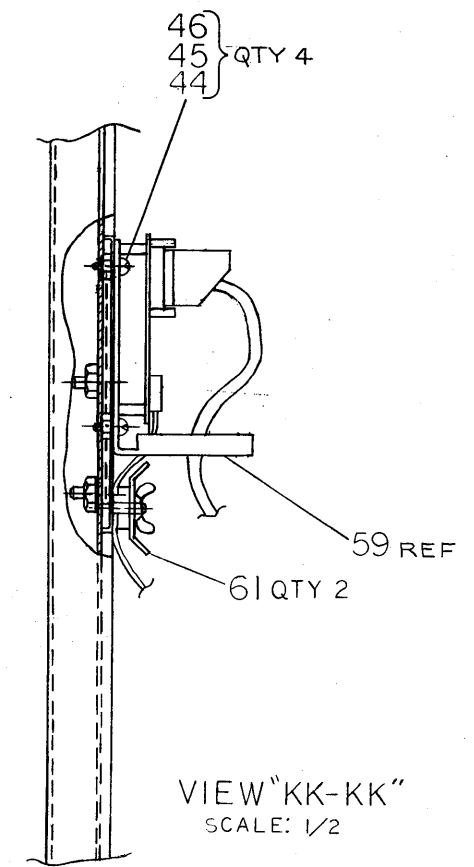
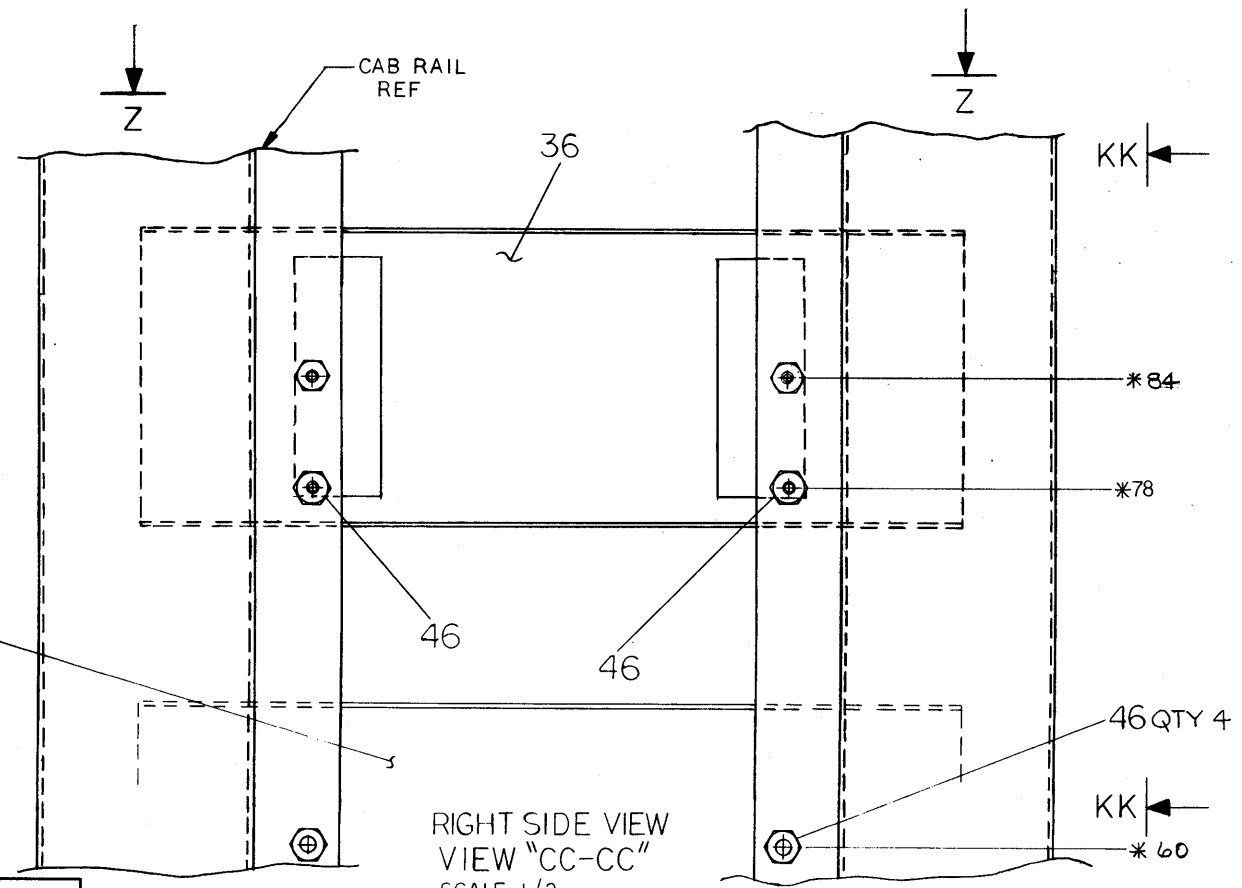
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY	SIZE CODE	DUA KSIØ-Ø-Ø	NUMBER	3000 2215	REV.	
SCALE	1/4	SHEET	12	OF	31	DIST.	

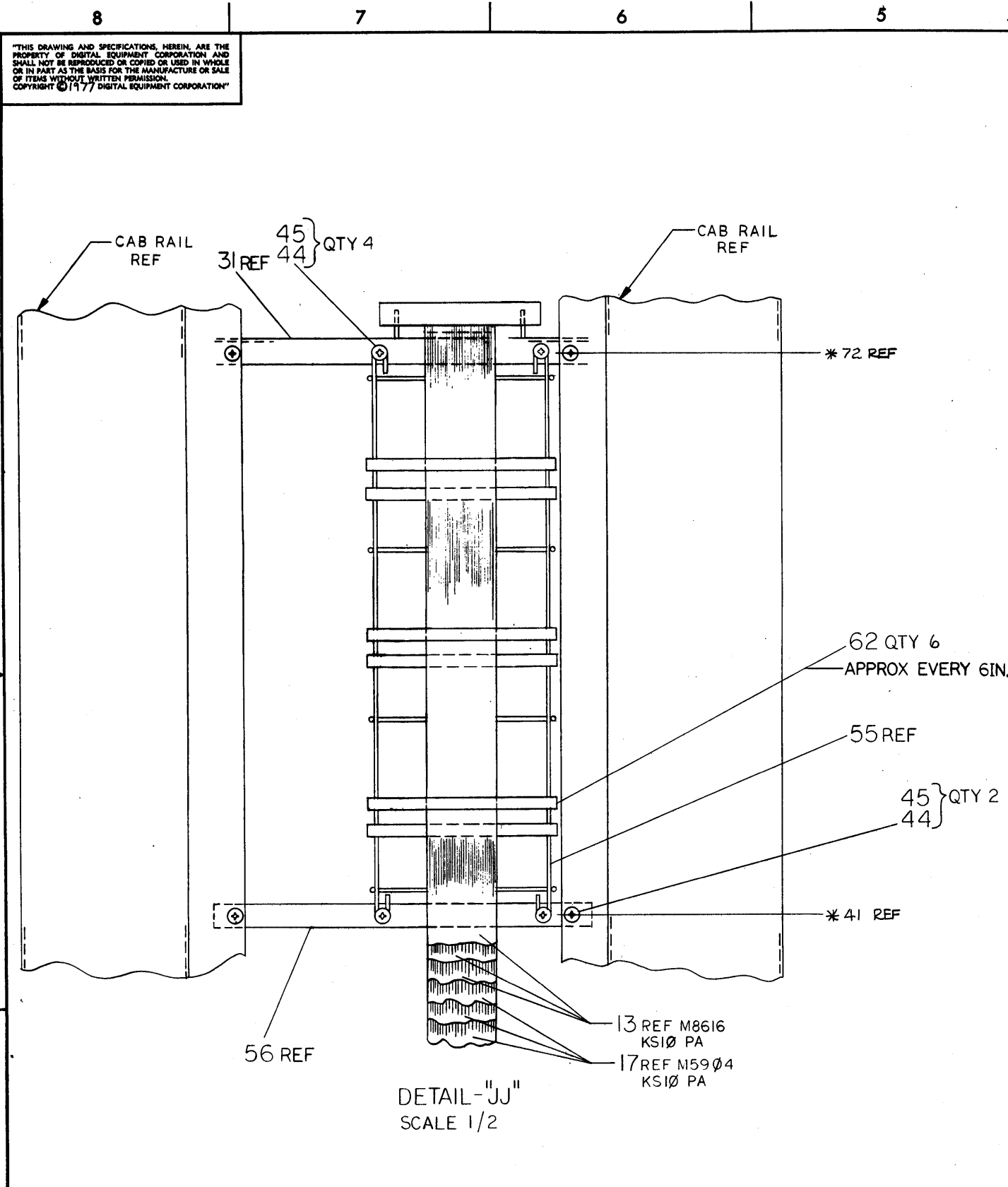
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DETAIL "D D"  
SCALE: NONE  
END PANEL  
GROUNDING



REVISIONS		
CHK	CHANGE NO.	REV.



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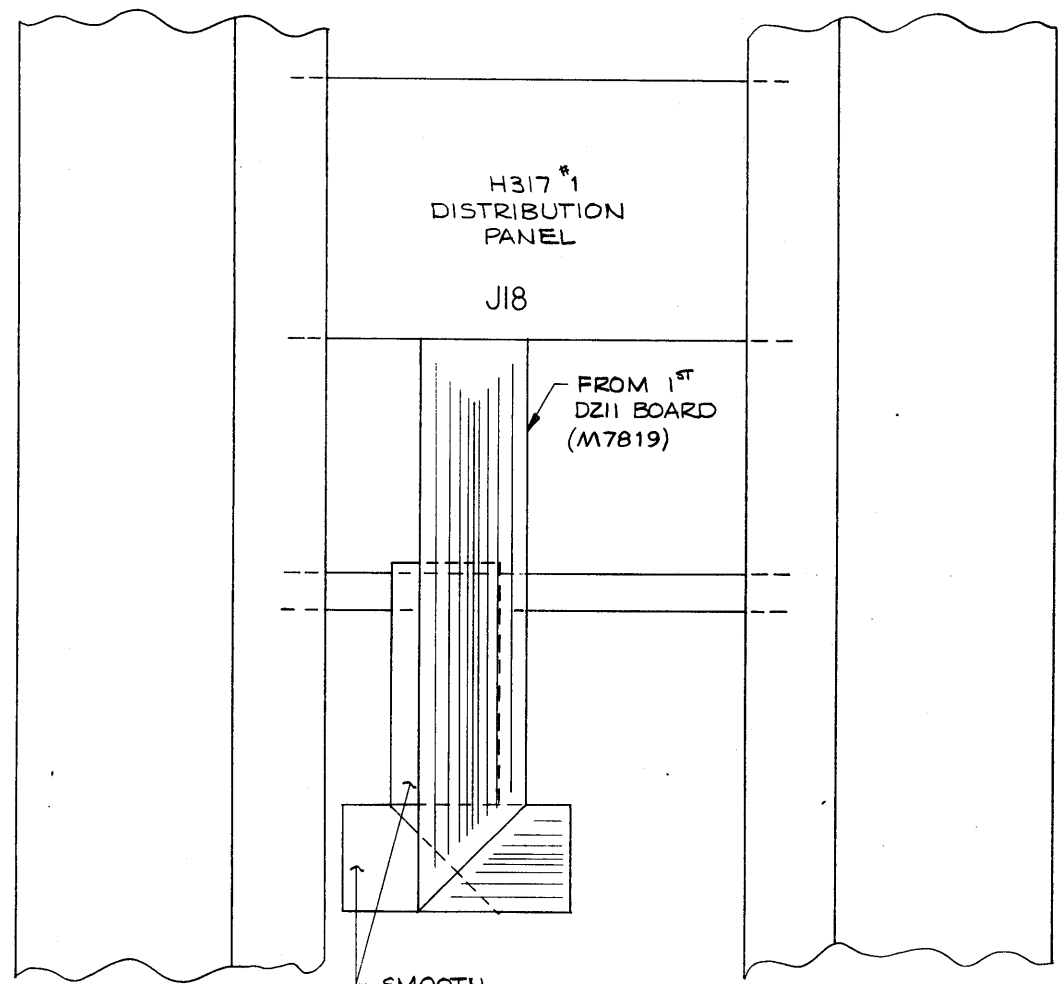
HARNESS CONNECTION CHART									
ITEM NO.	FROM			TO			OPTION	REMARKS	
	MODULE	SLOT	CABLE ORIENTATION	CONNECTION	CABLE ORIENTATION	CONNECTOR			
17	M59Ø4	CDØ4	RED LINE FRONT, RIB RIGHT	J1	RED LINE LEFT RIB UP	DISK - A	RH11	TO DISK	
	M59Ø4	CDØ5	RED LINE FRONT, RIB RIGHT	J1	RED LINE LEFT RIB UP	DISK - B			
	M59Ø4	CDØ6	RED LINE FRONT, RIB RIGHT	J1	RED LINE LEFT RIB UP	DISK - C			
26	M8616	18		J2				TO TERMINAL	
QTY 2				J1		CTY		TERMINAL	
25						CTY		TERMINAL	
95						KLINIK		MODEM	
59	M7819	8	SEE DETAIL ON SHEET 21	J1	SEE DETAIL ON SHEETS 15 & 16	H317*1 J1B	DZ11		
	M7819	7		J1		H317*1 J2Ø	DZ11		
	M7819	6		J1		H317*2 J1B	DZ11		
	M7819	5		J1		H317*2 J2Ø	DZ11		
	DUP11	3 & 4	SEE DETAIL ON SHEET 21					TERM OR MODEM	
	LP2Ø	22	SEE DETAIL ON SHEET 8	J1	RED LINE LEFT, RIB UP	LP-B		LINE PRINTER	
OPTIONS	M59Ø4	CDØ4	RED LINE UP RIB RIGHT	J1	RED LINE LEFT, RIB UP	TAPE - A	RH11	TO TAPE	
	M59Ø4	CDØ5	RED LINE UP RIB RIGHT	J1	RED LINE LEFT, RIB UP	TAPE - B			
	M59Ø4	CDØ6	RED LINE UP RIB RIGHT	J1	RED LINE LEFT, RIB UP	TAPE - C			
KSIØ-PA	M8619	19	RED LINE TOP SMOOTH RIGHT	J1	RED LINE TOP SMOOTH LEFT	M9Ø14 - J1	RH11	INTERNAL UNIBUS A PA	
BCØ5L	M8619	19	RED LINE TOP SMOOTH RIGHT	J2	RED LINE TOP SMOOTH LEFT	M9Ø14 - J2			
-2	M8619	19	RED LINE TOP SMOOTH RIGHT	J3	RED LINE TOP SMOOTH LEFT	M9Ø14 - J3			
13	M8619	16	RED LINE TOP SMOOTH RIGHT	J1	RIB RIGHT RED LINE REAR	M9Ø14 - J1	ABØ1 BA11	INTERNAL UNIBUS B BA11-K	
	M8619	16	RED LINE TOP SMOOTH RIGHT	J2	RIB RIGHT RED LINE REAR	M9Ø14 - J2			
	M8619	16	RED LINE TOP SMOOTH RIGHT	J3	RIB RIGHT RED LINE REAR	M9Ø14 - J3			
OPTION	BCØ6S		MASSBUS CABLE TROUGH	DISK		DEVICE	DISK	DISK	
OPTION	BCØ6S		MASSBUS CABLE TROUGH	TAPE		DEVICE	TAU 45	TAPE	
OPTION	7011426		MASSBUS CABLE TROUGH	LINE PRINTER		DEVICE	LP2Ø	LP	
86	861		MASSBUS CABLE TROUGH	J1		J1	BA11	REMO TETURN ON	
73/83			CARD CAGE BLOWER			861		POWER CORD	
78/80			POWER SUPPLY			861		POWER CORD	

REVISIONS		
CHK	CHANGE NO.	REV.

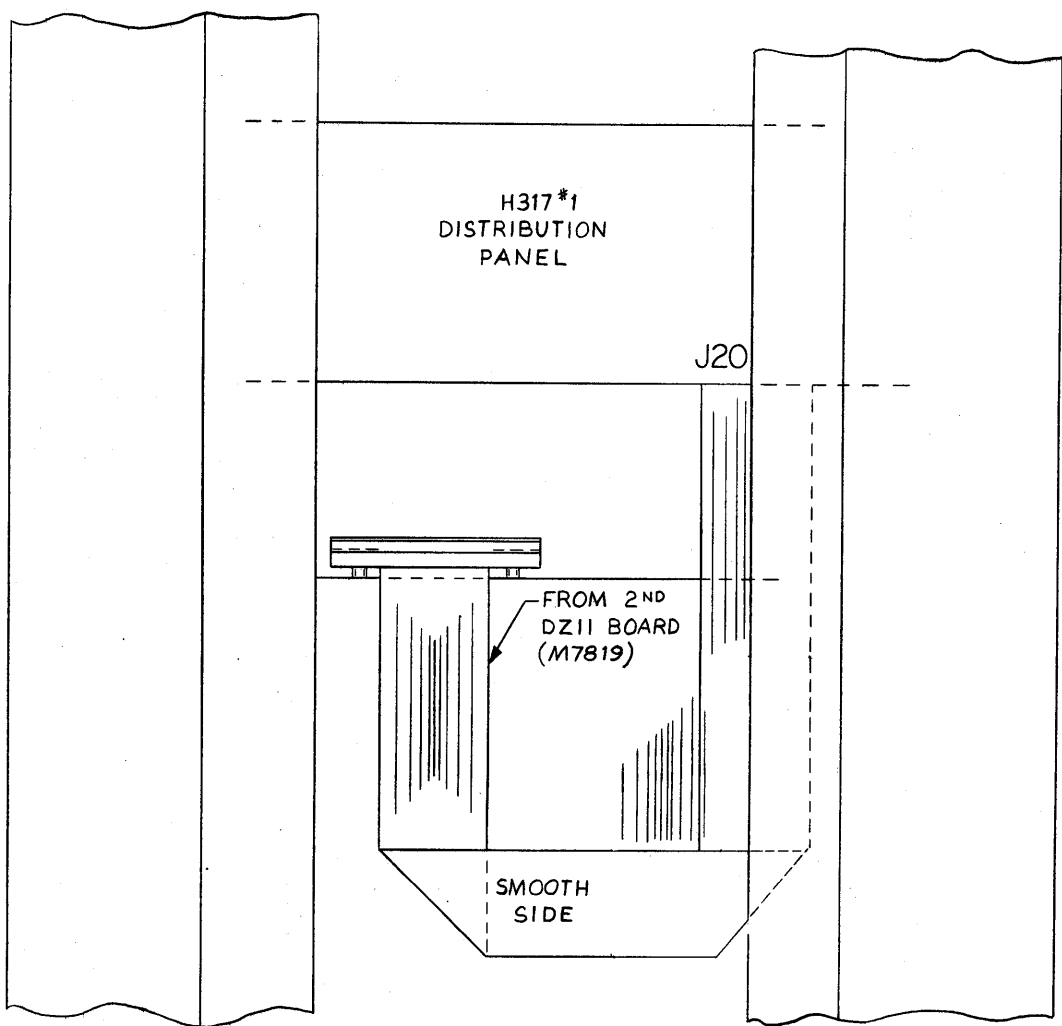
TITLE KSIØ PROCESSOR UNIT ASSY						SIZE CODE DUA	NUMBER KSIØ-Ø-Ø	REV.
SCALE 1/4		SHEET 14 OF 31		DIST.				

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REV. 2  
 SIZE CODE DUA  
 NUMBER KSI0-0-0



CAB RIGHT SIDE  
 DZ11 CABLE ROUTING



CAB RIGHT SIDE  
 DZ11 CABLE ROUTING

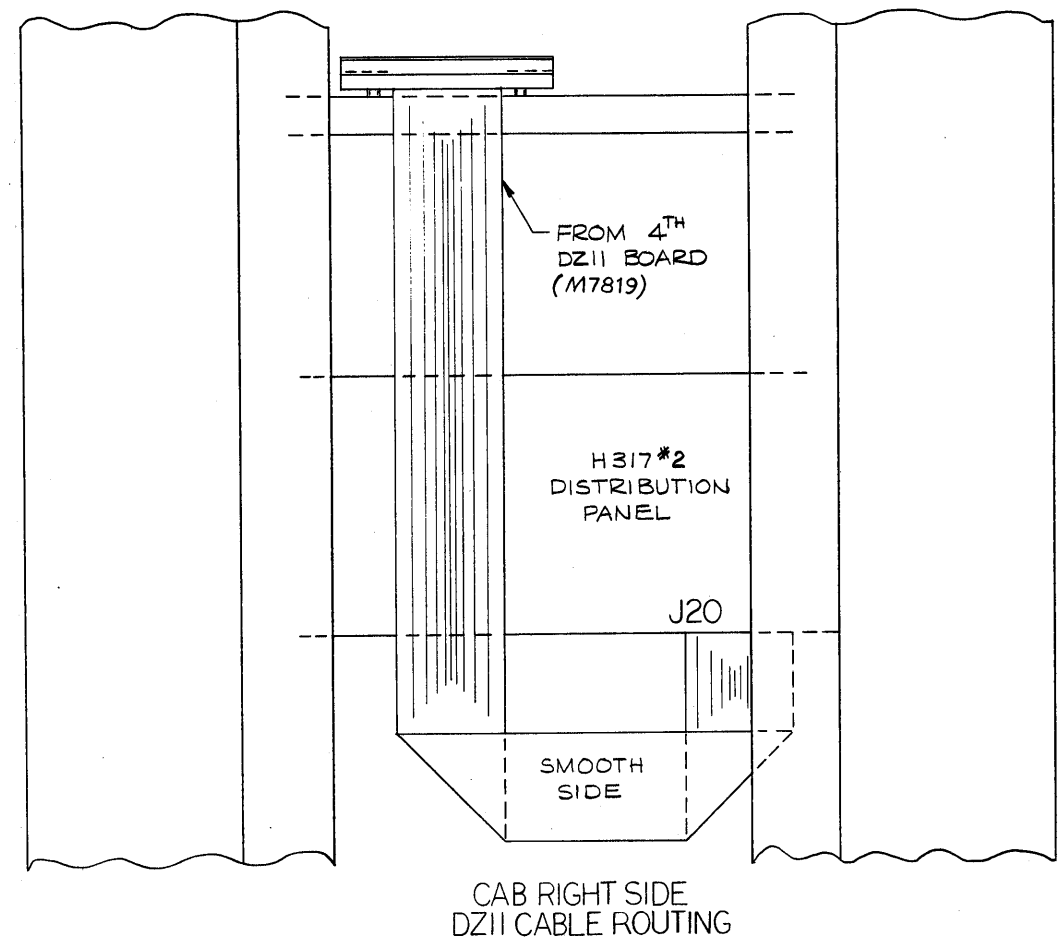
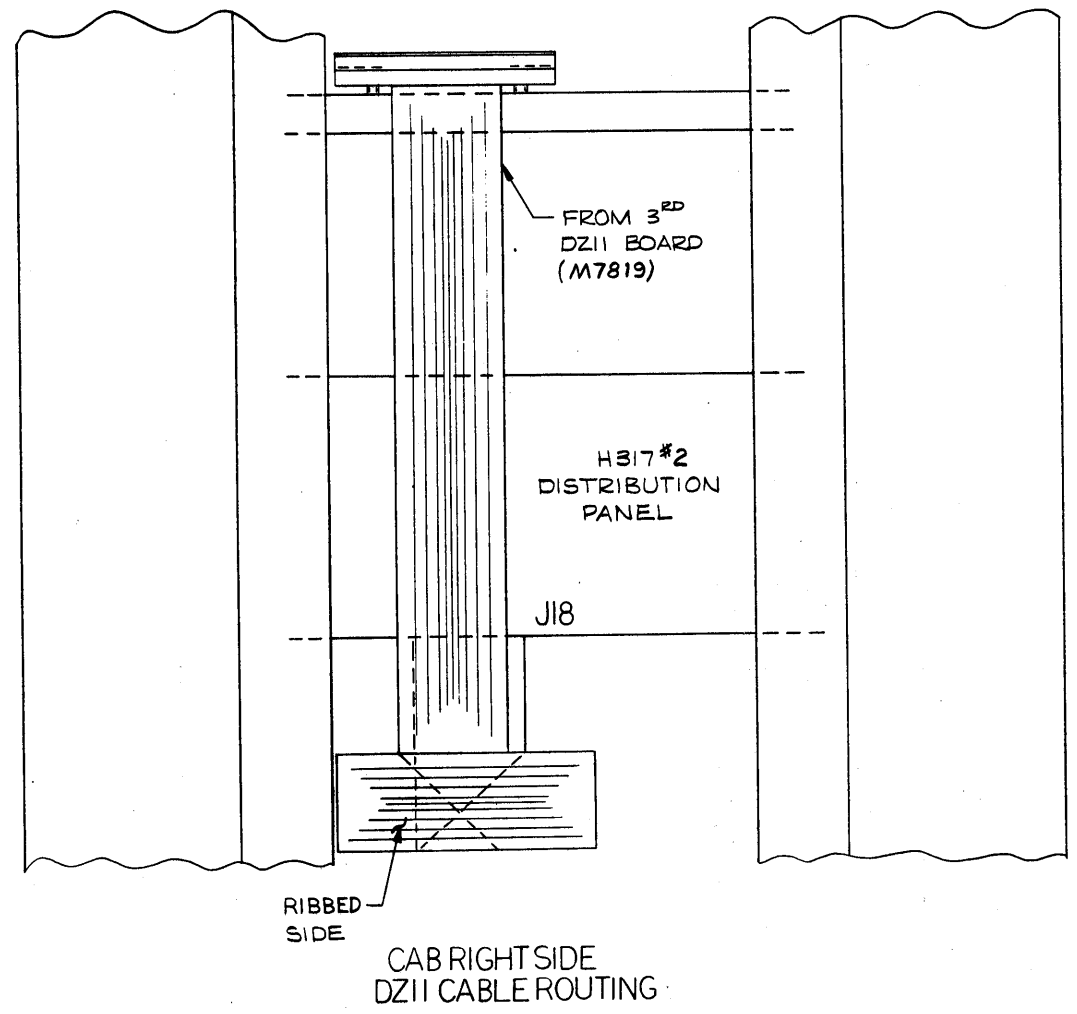
DETAIL "EE"  
 SCALE 1/2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSI0 PROCESSOR UNIT ASSY	SIZE CODE	DUA	NUMBER	KSI0-0-0	REV.	
SCALE	1/4	SHEET	15 OF 31	DIST.			



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DETAIL "PP"  
 SCALE 1/2

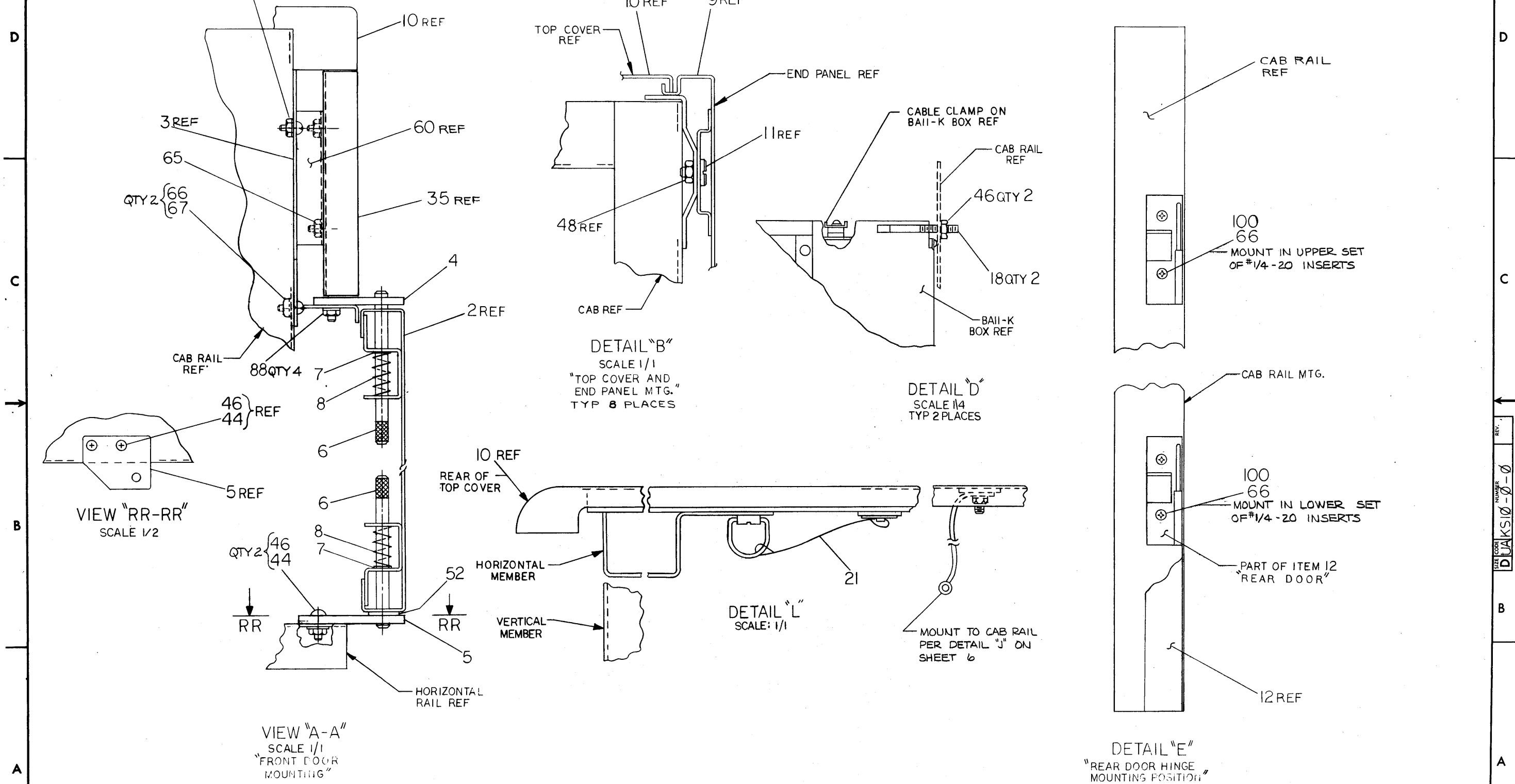
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSI0 PROCESSOR UNIT ASSY	SIZE CODE	DUA	NUMBER	KSI0-0-0	REV.	
SCALE	1/4	SHEET	16	OF	31	DIST.	

REV. 2  
 NUMBER KSI0-0-0  
 SIZE CODE DUA

MR

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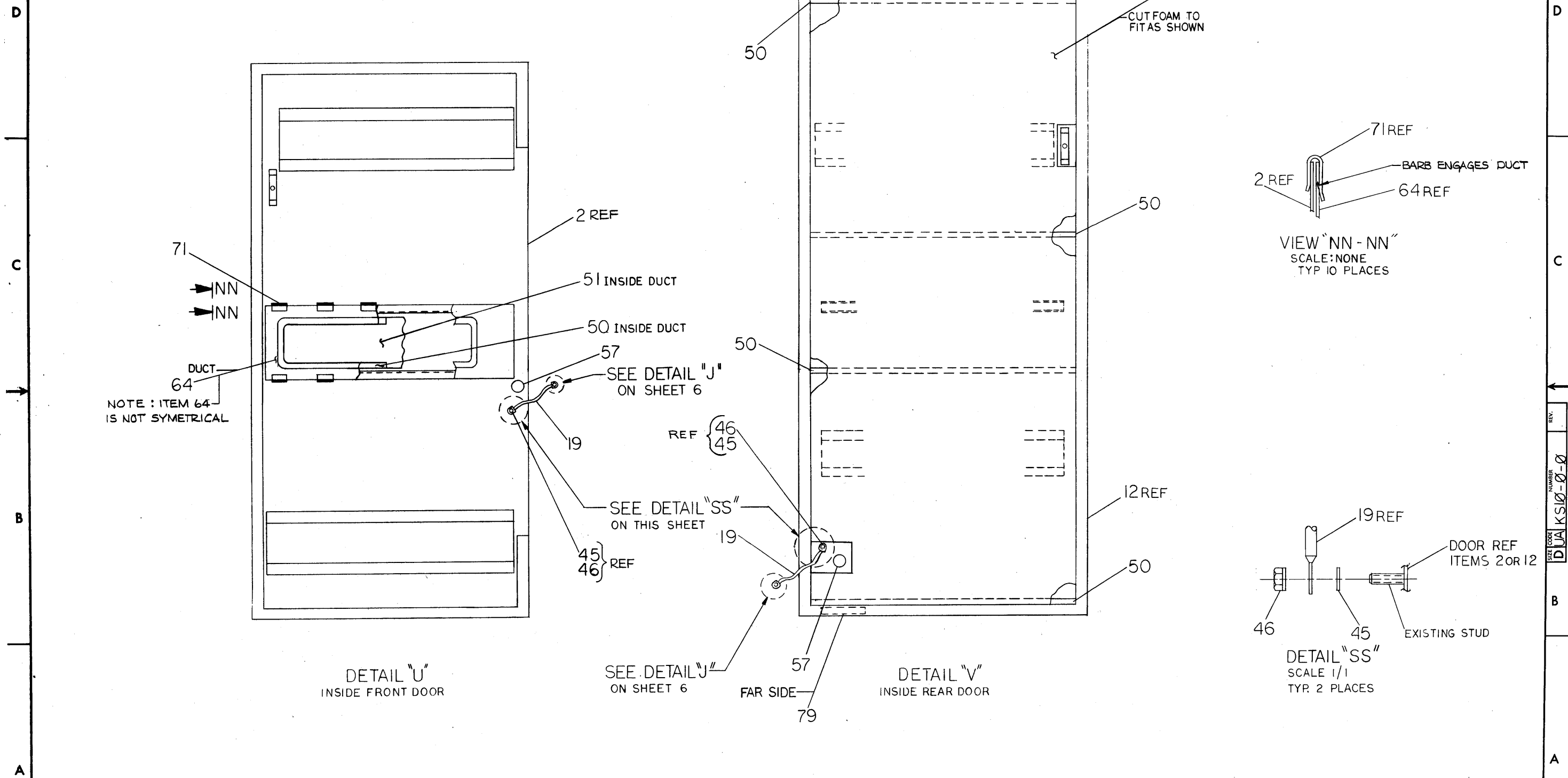


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KS10 PROCESSOR UNIT ASSY	SIZE CODE	DUA	NUMBER	KS10-0-0	REV.	1
SCALE	1/4	SHEET	17 OF 31	DIST.			

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REV. 2-0-0  
 SIZE CODE DUA  
 NUMBER KS10-0-0



REVISIONS		
CHK	CHANGE NO.	REV.

MR

NOTES:

1. IF THE LP20 CONTROL BOARD, M8586 IN SLOT 1AF02 IS AT REVISION B, IT IS NECESSARY TO TURN OFF S1-3 TO REMOVE LPD5 TABOVER CLK H FROM THE M8586 MODULE AS IT IS NOT USED ON REVISION B OF THAT MODULE.:

CAUTION!

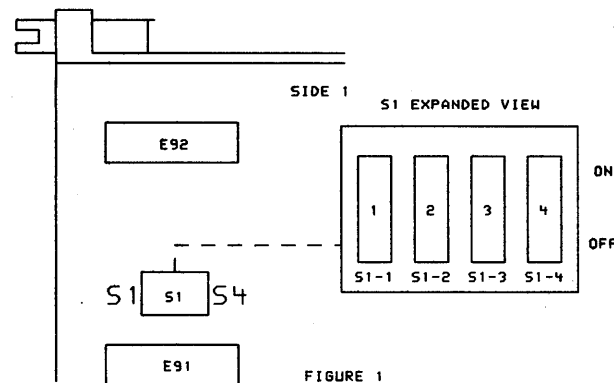
IF S1-3 IS TURNED ON WITH A REV B M8586 MODULE INSTALLED, DAMAGE TO THE M8571 LP20 DATA PATHS MODULE MAY RESULT!

2. ALL PRINTERS EXCEPT THE LA180 USE DIFFERENTIALLY DRIVEN DATA AND CONTROL LINES. THE LA180 LINES ARE SINGLE-ENDED CIRCUITS.

THE PRINTER CABLE IS CONFIGURED FOR A SPECIFIC PRINTER BY THE PROPER INSERTION OF THREE (3) JUMPER PLUGS INTO THREE (3) OF THE SIX (6) DIP SITES, E9-E12, E26, E27. ONLY THREE DIP SITES HAVE JUMPER PLUGS INSTALLED AT ANY TIME.

A JUMPER PLUG CONSISTS OF EIGHT (8) JUMPERS IN A PLASTIC DIP HEADER.

IF THE JUMPER PLUGS ARE INSTALLED INCORRECTLY, THE LED NEAR THE PRINTER CABLE WILL ILLUMINATE AND THE CONTROLLER ERROR FLAG (BIT 15 OF LPCSRA) WILL BE UNCLEARABLE. THE SOLUTION IS TO CONFIGURE THE JUMPER PLUGS CORRECTLY.



3. TABLE ENTRY MEANINGS ARE:

- X = DON'T CARE
- ON = DIPSWITCH SECTION "ON"
- OFF = DIPSWITCH SECTION "OFF"
- IN = JUMPER PLUG INSTALLED IN THIS DIPSITE
- OUT = NO JUMPER PLUG INSTALLED IN THIS DIPSITE
- ALL# = UNITS WITH DAVFU & LONG LINE INTERFACE ONLY
- ALL# = LP10-JA,JB,JC,JD,KA,KB,KC,KD ONLY

4. CAUTION!!

THE LA180 DRIVEN BY THE LP20 IS NOT CURRENTLY SUPPORTED AS A STANDARD PRODUCT.

M8571 SWITCH AND JUMPER PLUG CONFIGURATION (LP20 DATA PATH) LOWEST ACCEPTABLE CS REV D

M8571 DIPSWITCH S1 (FIGURE 1)	PRINT LOC/NAME	FUNCTIONAL CONFIGURATION	PRINTER IN USE (NOTE 3)					
			LP14/LP05 (ALL#)	LP06 (ALL#)	LP07 (ALL#)	LP10 (ALL#)	LA180 7-BIT	LA180 8-BIT
S1-1	LPD6/LPT PARITY	SWITCH ON ALLOWS A PARITY ERROR FROM THE PRINTER IN USE TO GENERATE AN ERROR IN THE LP20. PARITY IS ALWAYS ENABLED WHEN THE PRINTER IN USE IS AN LA180.	OFF	OFF	ON	ON	X	X
S1-2	LPD6/VERT FORMAT	SWITCH ON IMPLIES A DAVFU IS INSTALLED IN THE PRINTER IN USE. SWITCH OFF IMPLIES A PAPER TAPE VFU IS INSTALLED IN THE PRINTER IN USE.	ON	ON	ON	OFF	OFF	OFF
S1-3	LPD5/M8586 REV B	SWITCH MUST BE OFF IF THE LP20 CONTROL BOARD, M8586 IS AT REV B. SWITCH MUST BE ON FOR M8586 REV. C OR LATER.	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1
S1-4	LPD1/LA180 DAT PAR	SWITCH OFF CAUSES LPT DATA PARITY BIT TO BE SENT AS LPT DAT08. PARITY IS GENERATED ON THE LOW-ORDER SEVEN BITS ONLY. (LA180 ONLY) SWITCH ON SENDS PARITY BIT GENERATED AS LPT PARITY AND GENERATES PARITY ON ALL EIGHT BITS.	X	X	X	X	ON	OFF
DIP LOC.	PRINT LOC/NAME	FUNCTIONAL CONFIGURATION (NOTE 2)						
E9	LPD7/JUMPER SOCKET 1	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E9 FOR PRINTERS OTHER THAN THE LA180.	IN	IN	IN	IN	OUT	OUT
E10	LPD7/JUMPER SOCKET 2	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E10 FOR LA180 PRINTERS ONLY.	OUT	OUT	OUT	OUT	IN	IN
E11	LPD7/JUMPER SOCKET 3	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E11 FOR LA180 PRINTERS ONLY.	OUT	OUT	OUT	OUT	IN	IN
E12	LPD7/JUMPER SOCKET 4	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E12 FOR PRINTERS OTHER THAN THE LA180.	IN	IN	IN	IN	OUT	OUT
E26	LPD7/JUMPER SOCKET 5	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E26 FOR PRINTERS OTHER THAN THE LA180.	IN	IN	IN	IN	OUT	OUT
E27	LPD7/JUMPER SOCKET 6	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E27 FOR LA180 PRINTERS ONLY.	OUT	OUT	OUT	OUT	IN	IN

M8586 LOWEST ACCEPTABLE REVISION IS MODULE REVISION D

ETCH REVISION B OF THE M8586 MODULE CONTAINS THE FOLLOWING ECO PACKAGES IN ETCH.

M8586-0001  
M8586-0002  
M8586-0003

ETCH REVISION B HAS REPLACED ETCH REVISION A IN NEW BUILDS.

MODULE REVISIONS A,B,C, AND D WERE BUILT USING REV A ETCH. ALL MAY BE UPGRADED TO BE COMPLETELY COMPATIBLE WITH MODULE REVISION E WHICH IS BUILT WITH ETCH REVISION B.

MODULE REVISION E REPLACES ALL WIRE JUMPERS WITH DIP SWITCHS.

THE 10-SWITCH UNIT (S1) IS THE DEVICE ADDRESS SWITCH.

ETCH REV A JUMPER MODULE REV A,B,C,D	ETCH REV B SWITCH MODULE REV E OR LATER	LP20 ADDRESS BIT
W1 (IN)	S1-1 (ON)	ADR 04
W2 (IN)	S1-2 (ON)	ADR 05
W3 (IN)	S1-3 (ON)	ADR 06
W4 (IN)	S1-4 (ON)	ADR 07
W5 (OUT)	S1-5 (OFF)	ADR 08
W6 (OUT)	S1-6 (OFF)	ADR 09
W7 (IN)	S1-7 (ON)	ADR 10
W8 (OUT)	S1-8 (OFF)	ADR 11
W9 (OUT)	S1-9 (OFF)	ADR 12

NOTE S1-10 IS NOT USED!

THE 7-SWITCH UNIT (S2) IS THE DEVICE VECTOR

ETCH REV A JUMPER MODULE REV A,B,C,D	ETCH REV B SWITCH MODULE REV E OR LATER	LP20 VECTOR BIT
W10 (IN)	S2-1 (ON)	VEC 02
W11 (IN)	S2-2 (ON)	VEC 03
W12 (OUT)	S2-3 (OFF)	VEC 04
W13 (IN)	S2-4 (ON)	VEC 05
W14 (IN)	S2-5 (ON)	VEC 06
W15 (IN)	S2-6 (ON)	VEC 07
W16 (IN)	S2-7 (ON)	VEC 08

7011427 LP20 BACKPLANE ASSEMBLY LOWEST ACCEPTABLE REVISION IS REVISION C.

THE KS10 REQUIRES THAT THE M8571 MODULE BE USED AS THE LP20 DATA PATH MODULE. (NO M8587 MODULES MAY BE USED!!)

M8571 LOWEST ACCEPTABLE REVISION IS MODULE REVISION D.

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REVISIONS		
CHK	CHANGE NO.	REV

digital  
LDP, DRHL4, 2103  
FIRST USED ON OPTION/MODEL: KS10

DRW: J. J. J. J.  
DATE: 26-APR-78  
ENG: F. V. V.  
DATE: 28-APR-78  
DATE: 27-APR-78  
SHEET: 19 OF 31  
BOARD LOCATION:  
NEXT HIGHER ASSEMBLY: B-DD-KS10-0

TITLE: KS10 PROCESSOR UNIT ASSY  
SIZE CODE: D  
NUMBER: KS10-0-0  
REV.:

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REV. NUMBER SIZE CODE DUA KSI0-0-0 2

NOTES:

- THE SERVICE LOOP FOR THE EXPANSION DRAWER SHOULD BE INSTALLED WITH THE DRAWER EXTENDED FULLY AND TILTED 90° VERTICALLY AS SHOWN IN DETAIL K ON SHEET 6. THE SERVICE LOOP WHEN PROPERLY INSTALLED WILL BE APPROXIMATELY 30 INCHES LONG.
- THE INTERLOCK ARRANGEMENT IN EFFECT BETWEEN THE STABILIZER ARMS AND THE EXPANSION DRAWER WILL PREVENT THE DRAWER FROM BEING FULLY EXTENDED UNLESS THE STABILIZER ARMS ARE FULLY EXTENDED. DO NOT TRY TO OVERRIDE THIS FEATURE.
- THE CONNECTOR ON THE BC06R CABLES CAN EASILY BE INSERTED INTO THE MASS BUS HOUSING INCORRECTLY (EITHER SHIFTED TO THE RIGHT OR TO THE LEFT ONE ROW OF PINS) CAUTION SHOULD BE EXERCISED WHEN INSERTING THESE CONNECTORS TO GUARANTEE THAT THEY ARE INSERTED CENTRALLY IN THE CONNECTOR
- THE M9300 MODULE SHOULD BE MOVED TO THE LAST SLOT IN EACH ADDITIONAL BACKPLANE AS THEY ARE ADDED. SLOT A'B
- M8618 MEMORY CONTROL JUMPER SETTINGS:  
W1 OUT  
W2 OUT  
W3 OUT
- M8629 MEMORY ARRAY JUMPER SETTINGS:  
W1 IN  
W2 IN  
W3 IN

7. M8616 CONSOLE SWITCH SETTINGS  
E508 (CTY)/E509 (KLINIK)  
FACTORY SET AT 300 BAUD

BAUD	E508 SWITCHES						E509
	1	2	3	4	5	6	
110	OFF	OFF	OFF	OFF	OFF	OFF	OFF
150	OFF	OFF	OFF	ON	ON/OFF	OFF	OFF
300	OFF	OFF	ON	OFF	ON	OFF	OFF
600	ON	OFF	OFF	OFF	ON	OFF	OFF
1200	OFF	ON	OFF	OFF	ON	OFF	OFF
1800	OFF	ON	OFF	ON	ON	OFF	OFF
2400	OFF	OFF	ON	ON	ON	OFF	OFF
4800	OFF	ON	ON	OFF	ON	OFF	OFF
9600	OFF	ON	ON	ON	ON	OFF	OFF

#STOP  
BITS  
ON 1  
OFF 2

E208 E309 OR W1-W20 ARE FACTORY SET PER SPEC A-SP-M8616-0-X

PWR SPLY	W21	W22	W23
H7130	OUT	IN	OUT

8. LABEL ALL DZ11 CABLES (BC05W-8) AT BOTH ENDS WITH MARKERS TO IDENTIFY THEIR LINE NUMBERS (I.E. LINES 0-7, 8-15, 16-23, 24-31) WITH BRADY MARKERS

DZ11 #	LINE #	H317-E #	JACK #
1	0-7	1	J18
2	8-15	1	J20
3	16-23	2	J19
4	24-31	2	J20

9. THE H317 COMM DISTRIBUTION PANEL HAS TWO BERG CONNECTORS. IF THE BC05W CABLE BEING CONNECTED REPRESENTS THE FIRST 8 LINES ON THIS PANEL, IT SHOULD BE CONNECTED TO J18. IF THE BC05W CABLE REPRESENTS THE SECOND 8 LINES ON THIS PANEL IT SHOULD BE CONNECTED TO J20. SEE TABLE BELOW:

10. EACH DUP11-DA CONSISTS OF THE FOLLOWING ITEMS:  
1 M7887 MODULE  
1 H325 MODEM TEST CONNECTOR  
1 BC05C CABLE  
1 BC02C-1D CABLE  
SEE DETAIL ON SHEET 21 FOR ASSY INSTRUCTIONS

11. LABEL ALL DUP11-DA CABLES (BC05C-25) AT BOTH ENDS WITH BRADY MARKERS TO IDENTIFY THEIR CORRECT LINE NUMBERS (I.E. LINES L1 AND L2). AT BOTH ENDS WITH BRADY MARKERS FOR I.D. PURPOSES.

12. CUT OFF EXTERNAL POWER CORD PLUG OF 50HZ MACHINES BEFORE SHIPPING.

13. ASTERISK \* INDICATES MOUNTING HOLE LOCATIONS

REVISIONS		
CHK	CHANGE NO.	REV.

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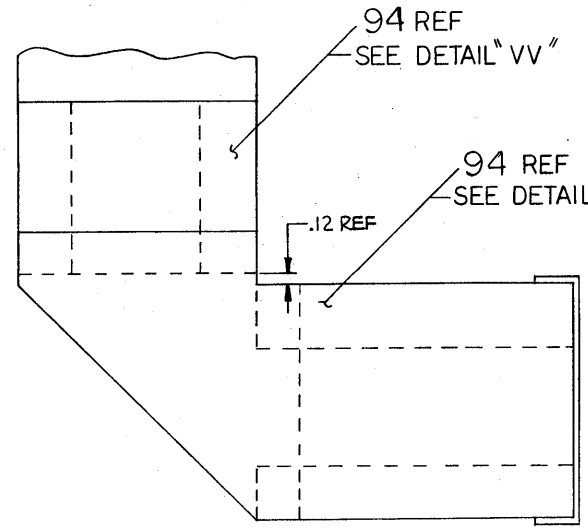
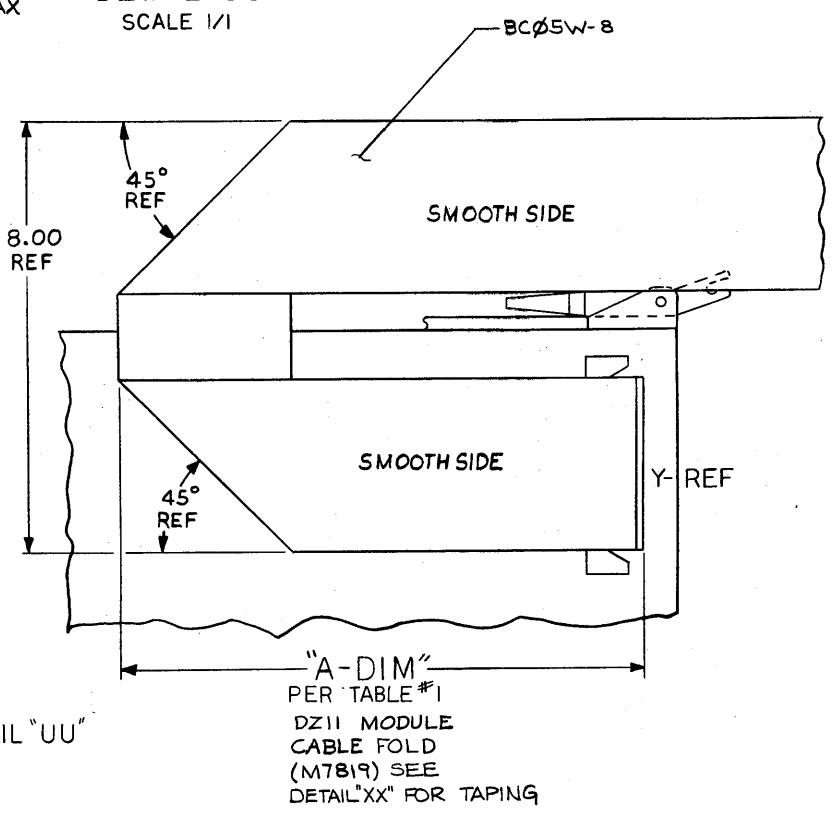
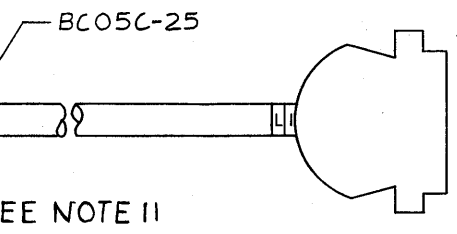
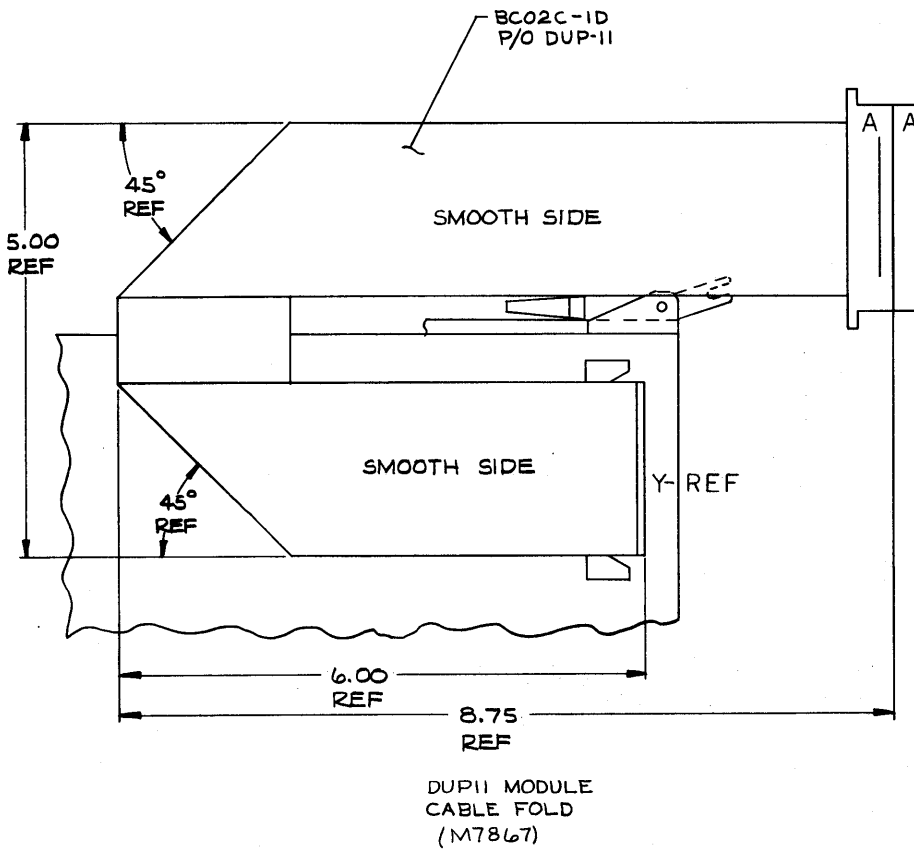
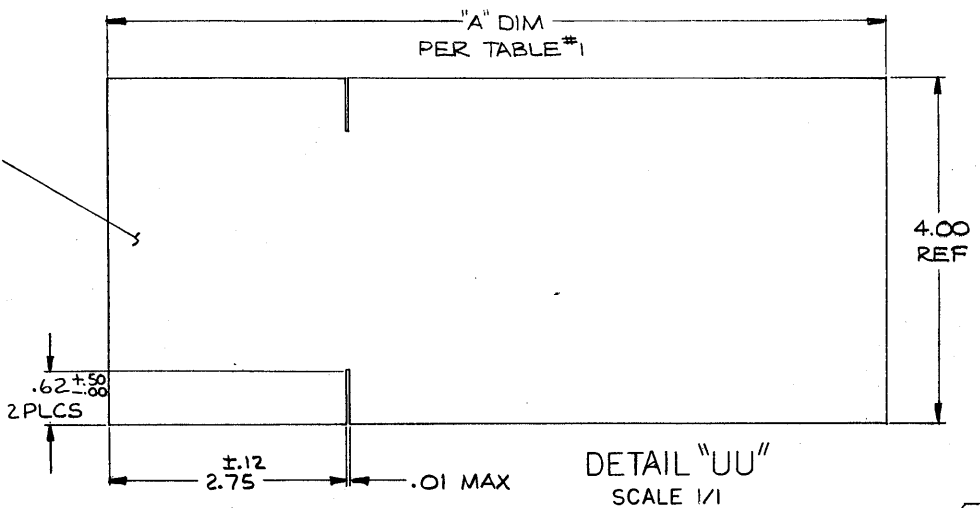
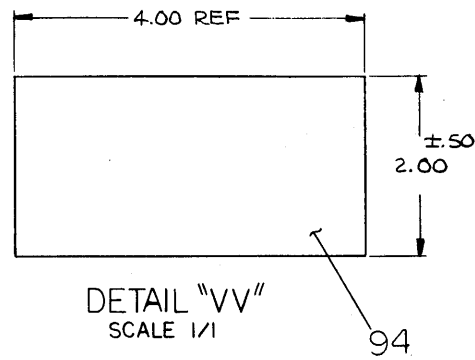
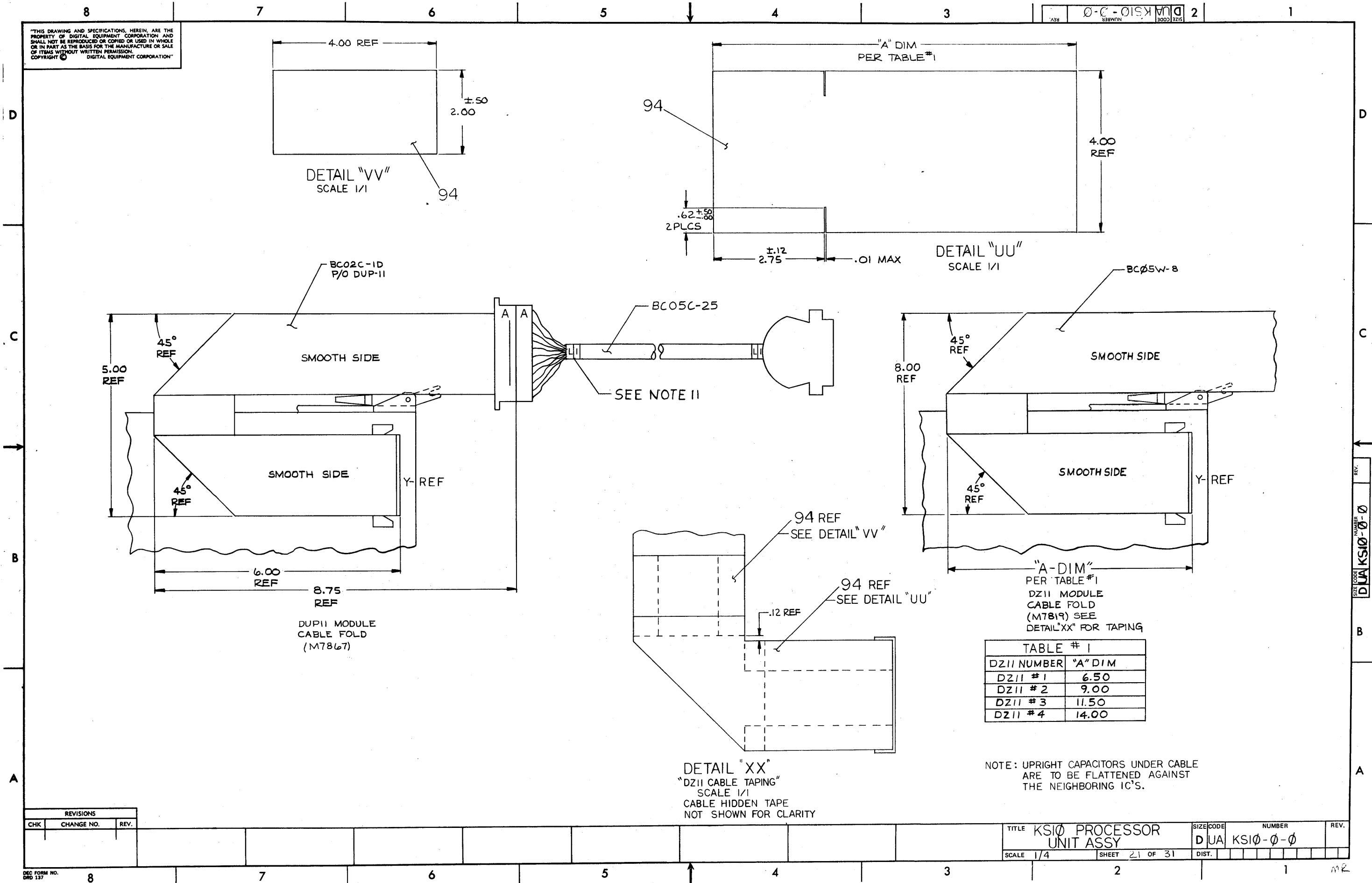


TABLE # 1	
DZ11 NUMBER	"A" DIM
DZ11 #1	6.50
DZ11 #2	9.00
DZ11 #3	11.50
DZ11 #4	14.00

NOTE: UPRIGHT CAPACITORS UNDER CABLE ARE TO BE FLATTENED AGAINST THE NEIGHBORING IC'S.

REVISIONS		
CHK	CHANGE NO.	REV.

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1. MODULE CONFIGURATION INFORMATION

1) M7819 (DZ11) (LOWEST ACCEPTABLE CS REV. E)  
A FULLY CONFIGURED KS10 SYSTEM WILL HAVE UP TO 4 M7819 (DZ11) MODULES. THEIR ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART.

DN25 CONFIGURATIONS (ADDRESS & VECTOR TABLES)

DZ11	1	2	3	4
#1 ADDRESS VECTOR	760010 340	760010 340	760010 340	760010 340
#2 ADDRESS VECTOR		760020 350	760020 350	760020 350
#3 ADDRESS VECTOR			760030 360	760030 360
#4 ADDRESS VECTOR				760040 370

M7867 (DUP11-DA) (LOWEST ACCEPTABLE CS REV. F)  
A FULLY CONFIGURED KS10 SUBSYSTEM WILL HAVE UP TO 2 M7867 (DUP11-DA) MODULES. THEIR ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART

DN20 CONFIGURATIONS (ADDRESS & VECTORS)

DUP11 #1	ADDRESS VECTOR	#1	#2
		760300 570	760300 570
#2	ADDRESS VECTOR		760310 600

M8204 (KMC11) (LOWEST ACCEPTABLE CS REV. D)  
A FULLY CONFIGURED KS10 SYSTEM WILL HAVE 1 M8204 (KMC11) MODULE. IT'S ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART.

KMC	#1	CONTROLS
KMC11 #1	ADDRESS VECTOR	760540 540

THERE ARE 2 SWITCH PACKS ON EACH M7867 (DUP11-DA) MODULE. THEIR SWITCH SETTINGS ARE AS FOLLOWS IN ORDER TO PROPERLY CONFIGURE THE ABOVE ADDRESS AND VECTOR ASSIGNMENTS.

DUP11 #1			DUP11 #2		
PACK	SWITCH	STATE	PACK	SWITCH	STATE
E59	1	ON	E59	1	ON
E59	2	OFF	E59	2	ON
E59	3	ON	E59	3	OFF
E59	4	ON	E59	4	OFF
E59	5	ON	E59	5	OFF
E59	6	ON	E59	6	OFF
E59	7	N/A	E59	7	N/A
E59	8	N/A	E59	8	N/A
E113	1	ON	E113	1	OFF
E113	2	ON	E113	2	ON
E113	3	ON	E113	3	ON
E113	4	OFF	E113	4	OFF
E113	5	OFF	E113	5	OFF
E113	6	ON	E113	6	ON
E113	7	ON	E113	7	ON
E113	8	ON	E113	8	ON
E113	9	ON	E113	9	ON
E113	10	ON	E113	10	ON

THERE ARE 2 SWITCH PACKS ON EACH M8204 MODULE. THEIR SWITCH SETTINGS ARE AS FOLLOWS IN ORDER TO PROPERLY CONFIGURE THE ABOVE ADDRESS AND VECTOR ASSIGNMENTS.

KMC11 #1		
PACK	SWITCH	STATE
E65	1	OFF
E65	2	OFF
E65	3	ON
E65	4	ON
E65	5	OFF
E65	6	ON
E65	7	N/A
E65	8	N/A
E116	1	ON
E116	2	ON
E116	3	OFF
E116	4	OFF
E116	5	ON
E116	6	OFF
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DZ11 #1			DZ11 #2			DZ11 #3			DZ11 #4		
PACK	SWITCH	STATE	PACK	SWITCH	STATE	PACK	SWITCH	STATE	PACK	SWITCH	STATE
E11	1	N/A	E11	1	N/A	E11	1	N/A	E11	1	N/A
E11	2	ON	E11	2	OFF	E11	2	ON	E11	2	OFF
E11	3	ON	E11	3	ON	E11	3	OFF	E11	3	OFF
E11	4	OFF	E11	4	OFF	E11	4	OFF	E11	4	OFF
E11	5	OFF	E11	5	OFF	E11	5	OFF	E11	5	OFF
E11	6	OFF	E11	6	OFF	E11	6	OFF	E11	6	OFF
E11	7	ON	E11	7	ON	E11	7	ON	E11	7	ON
E11	8	N/A	E11	8	N/A	E11	8	N/A	E11	8	N/A
E81	1	ON	E81	1	OFF	E81	1	ON	E81	1	OFF
E81	2	OFF	E81	2	ON	E81	2	ON	E81	2	OFF
E81	3	OFF	E81	3	OFF	E81	3	OFF	E81	3	ON
E81	4	OFF	E81	4	OFF	E81	4	OFF	E81	4	OFF
E81	5	OFF	E81	5	OFF	E81	5	OFF	E81	5	OFF
E81	6	OFF	E81	6	OFF	E81	6	OFF	E81	6	OFF
E81	7	OFF	E81	7	OFF	E81	7	OFF	E81	7	OFF
E81	8	OFF	E81	8	OFF	E81	8	OFF	E81	8	OFF
E81	9	OFF	E81	9	OFF	E81	9	OFF	E81	9	OFF
E81	10	OFF	E81	10	OFF	E81	10	OFF	E81	10	OFF

THERE ARE 7 JUMPERS ON EACH M7867 (DUP11-DA) MODULE. THEY ARE ALL FACTORY SETTABLE FOR COMPATIBILITY WITH BELL 201. BELL 200 AND 209 SERIES MODEMS AND SHOULD NOT HAVE TO BE CHANGED UNLESS ANOTHER TYPE MODEM IS USED.

SHOULD ANOTHER TYPE MODEM BE USED THE JUMPERS MUST BE RE-CONFIGURED SO THAT THEY ARE COMPATIBLE WITH THE TYPE MODEM USED. REFER TO THE DUP11-DA BIT SYNCHRONOUS INTERFACE MAINTENANCE MANUAL (EK-DUP11-MM).

AS A QUICK VERIFY THE STANDARD FACTORY SETTABLE JUMPER SETTINGS ARE AS FOLLOWS:

W1	IN	W5	OUT
W2	OUT	W6	IN
W3	IN	W7	IN
W4	IN		

BR PRIORITY LEVEL 5(PRIORITY JUMPER P/N 5408778).

NOTE: EACH BACKPLANE SLOT WHICH HAS AN M8204 (KMC11) MODULE INSTALLED MUST HAVE THE BACKPLANE WIRE FROM PIN C41 TO PIN C81 OF THAT SLOT REMOVED. SHOULD THE KMC11 EVER BE REMOVED FROM THAT SLOT THE WIRE MUST BE RE-INSERTED IN ORDER TO GUARANTEE THAT THE NPG SIGNAL WILL BE PASSED ALONG THE UNIBUS.

DD11-DK (LOWEST ACCEPTABLE REV. B)  
ALL SLOTS WHICH HAVE NO QUAD OR HEX MODULE INSTALLED MUST HAVE A GRANT CONTINUITY CARD (G727) INSTALLED IN ROW D OF THAT SLOT.

BR PRIORITY LEVEL 5(PRIORITY JUMPER P/N 5408778)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KS10 PROCESSOR UNIT ASSY	SIZE CODE	DUA	NUMBER	KS10-0-0	REV.	
SCALE	1/4	SHEET	22	OF	31	DIST.	

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RH11-C MASSBUS CONTROLLER

5410506 ETCHED BACKPLANE  
LOWEST ACCEPTABLE WIRE LIST REVISION C

M7294-YA DATA BUFFER & CONTROL LOCATION ABCDEF03  
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV \*

JUMPER	STATE DISK	TAPE	COMMENTS
W1	OUT	OUT	SENSE UNIBUS A PARITY ERROR
W2	IN	IN	SENSE UNIBUS B PARITY ERROR
E66, PINS 1-16	IN	IN	START COUNT 16 WORDS
E66, PINS 5-12	OUT	OUT	START COUNT 32 WORDS
E66, PINS 7-10	OUT	OUT	START COUNT 16 WORDS
E66, PINS 2-15	IN	IN	DISABLE BUS B HOG MODE
E66, PINS 3-14	OUT	OUT	ENABLE BACK TO BACK MEM CYCLES
E66, PINS 4-13	OUT	IN	FOR TAPE SUBSYSTEM ONLY, OTHERWISE OUT
E66, PINS 6-11	IN	OUT	FOR DISK SUBSYSTEM ONLY, OTHERWISE OUT

M7295 BUS CONTROL LOCATION ABCDEF02  
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV D

JUMPER	STATE DISK	TAPE	COMMENTS
W1	OUT	OUT	ADDRESS BIT 12
W2	OUT	IN	ADDRESS BIT 11
W3	OUT	OUT	ADDRESS BIT 10
W4	IN	IN	ADDRESS BIT 09
W5	OUT	OUT	ADDRESS BIT 08
W6	OUT	IN	ADDRESS BIT 07
W7	OUT	IN	ADDRESS BIT 06
W8	IN	OUT	ADDRESS BIT 05
E3, PINS 1-16	OUT	IN	16-32 REGISTERS
E3, PINS 2-15	OUT	IN	16-32 REGISTERS
E3, PINS 3-14	IN	OUT	1-16 REGISTERS
E3, PINS 4-13	IN	OUT	1-16 REGISTERS
E3, PINS 5-12	IN	OUT	16 REGISTERS
E3, PINS 6-11	OUT	OUT	8 REGISTERS
E3, PINS 7-10	IN	OUT	4 REGISTERS
E3, PINS 8-9	OUT	IN	2 REGISTERS
W11	IN	IN	VECTOR BIT V2
W12	IN	OUT	VECTOR BIT V3
W13	OUT	IN	VECTOR BIT V4
W14	IN	OUT	VECTOR BIT V5
W15	OUT	OUT	VECTOR BIT V6
W16	IN	IN	VECTOR BIT V7
W17	OUT	OUT	VECTOR BIT V8
W18	OUT	OUT	NPR LATENCY
W19	IN	IN	MAINTENANCE (MXF ERRORS)

W1-W8 CORRESPOND TO A BASE ADDRESS OF 776700 FOR DISKS AND 772440 FOR TAPES  
W11-W17 CORRESPOND TO A VECTOR ADDRESS OF 000254 FOR DISKS AND 000224 FOR TAPES  
JUMPERS ON E3 ARE SET FOR 20 REGISTERS FOR DISKS AND 14 FOR TAPES  
DIPS SITE E57 SHOULD CONTAIN PRIORITY PLUG E66(54-00780)  
CAUTION: BOARD MAY NOT BE RECEIVED WITH PROPER BR PLUG IF IT IS A SPARE

M7296 CONTROL AND STATUS REGISTERS LOCATION EF01  
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV B  
INSTALL JUMPER W1 TO ALLOW ONLY UNIBUS A TO BE SELECTED

M7297 PARITY CONTROL LOCATION CD01  
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV A  
NO JUMPERS OR OTHER CONFIGURABLE COMPONENTS  
THERE ARE TWO VISUAL INDICATORS (LEDS) FOR MASSBUS PARITY ERROR DISPLAY ON THIS BOARD (LIT IF PARITY ERROR DETECTED).

M9300 UNIBUS B TERMINATOR LOCATION AB08

LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV 0  
JUMPER TABLE

JUMPER	STATE	COMMENTS
W1	OUT	BEGINNING OF BUS
W2	IN	NOT END OF BUS
W3	IN	NOT END OF BUS

THERE IS A VISUAL INDICATOR (LED) FOR AN ILLEGAL JUMPER CONFIGURATION CHECK (LIT IF ELLEGAL).

M5904 CONTROLLER TRANSCIEVER LOCATIONS CD04, CD05, CD06

LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV D  
NO JUMPERS OR OTHER CONFIGURABLE COMPONENT.

M688 UNIBUS POWER FAIL DRIVERS LOCATIONS EB4 AND EB5

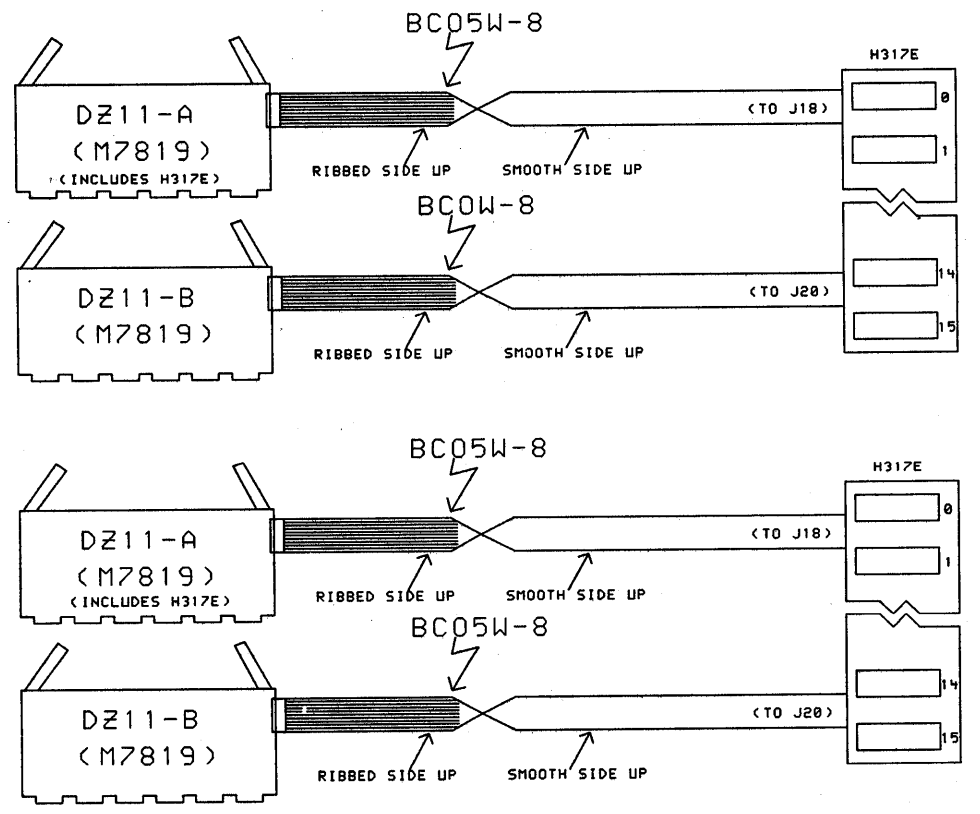
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV N/A  
NO JUMPERS OR OTHER CONFIGURABLE COMPONENT.  
REMOVE M688 MODULE FROM BA II-K BOX SLOT # E15  
ONLY, M688 IN SLOT # E14 TO REMAIN.

FRONT UNIBUS STORAGE NAME	FRONT UNIBUS ASSIGNMENT BACKPLANE	FRONT UNIBUS ASSIGNMENT PIN	JACK PIN
AB0 L	RH2	J1 D	J1 D
AB1 L	BH1	J1 B	J1 B
AB2 L	BJ2	J1 J	J1 J
AB3 L	BJ1	J1 F	J1 F
AB4 L	BK2	J1 N	J1 N
AB5 L	BK1	J1 L	J1 L
AB6 L	BL2	J1 T	J1 T
AB7 L	BL1	J1 R	J1 R
AB8 L	BH2	J1 X	J1 X
AB9 L	BH1	J1 V	J1 V
A10 L	BN2	J1 BB	J1 BB
A11 L	BN1	J1 Z	J1 Z
A12 L	BP2	J1 FF	J1 FF
A13 L	BP1	J1 DD	J1 DD
A14 L	BR2	J1 LL	J1 LL
A15 L	BR1	J1 JJ	J1 JJ
A16 L	BS2	J1 RR	J1 RR
A17 L	BS1	J1 NN	J1 NN
ACL0 L	BF1	J2 VV	J2 VV
BBSY L	AP2	J3 X	J3 X
BG4 H	BE2	J3 B	J3 B
BG5 H	BB1	J3 T	J3 T
BG6 H	BA1	J3 N	J3 N
BG7 H	AV1	J3 J	J3 J
BR4 L	BD2	J3 V	J3 V
BR5 L	BC1	J3 R	J3 R
BR6 L	AU2	J3 L	J3 L
BR7 L	AT2	J3 F	J3 F
CB L	BU2	J3 NN	J3 NN
C1 L	BT2	J1 TT	J1 TT
D00 L	AC1	J2 B	J2 B
D01 L	AD2	J2 F	J2 F
D02 L	AD1	J2 D	J2 D
D03 L	AE2	J2 L	J2 L
D04 L	AE1	J2 J	J2 J
D05 L	AF2	J2 R	J2 R
D06 L	AF1	J2 N	J2 N
D07 L	AH2	J2 V	J2 V
D08 L	AH1	J2 T	J2 T
D09 L	AJ2	J2 Z	J2 Z
D10 L	AJ1	J2 X	J2 X
D11 L	AK2	J2 DD	J2 DD
D12 L	AK1	J2 BB	J2 BB
D13 L	AL2	J2 JJ	J2 JJ
D14 L	AL1	J2 FF	J2 FF
D15	AM2	J2 NN	J2 NN
GROUND	AB2	THE FOLLOWING PINS ON J1, J2 AND J3 ARE GROUNDED	
GROUND	AC2		
GROUND	AN1	A C E H K W P	
GROUND	AP1	S U W X Y Z	
GROUND	AR1	A A C C E E	
GROUND	AS1		
GROUND	AT1		
GROUND	AV2		
GROUND	BB2		
GROUND	BC2		
GROUND	BD1	J1 VV	J1 VV
GROUND	BE1	J2 TT	J2 TT
GROUND	BT1	J3 DD	J3 DD
GROUND	BV2	J3 RR	J3 RR
INIT L	AA1	J3 Z	J3 Z
INIT L	AB1	J3 FF	J3 FF
MSYN L	BV1	J3 LL	J3 LL
NPG H	AU1	J3 D	J3 D
NPR L	AS2	J3 B	J3 B
PA L	AH1	J2 LL	J2 LL
PB L	AN2	J2 RR	J2 RR
5V	AA2		
5V	AA2		
SACK L	BA2		
DCL0 L	AR2	J3 TT	J3 TT
SSYN L	BF2	J3 VV	J3 VV
	BU1	J3 JJ	J3 JJ

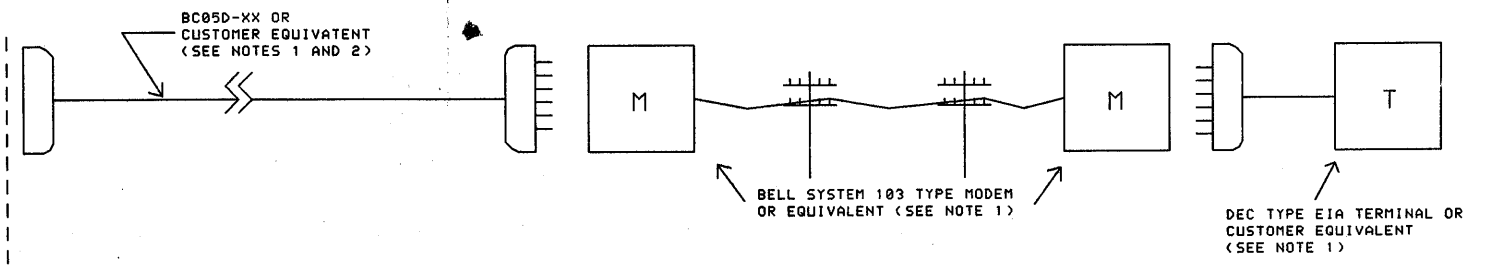
M9014 ONLY

CHK	CHANGE NO.	REV.





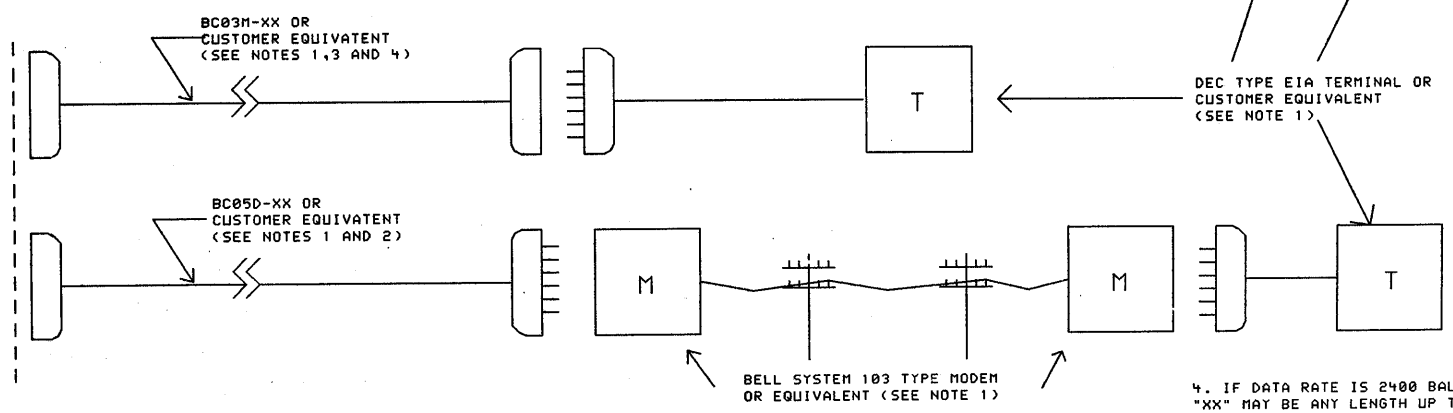
REMOTE (FULL MODEM) APPLICATION



LOCAL (DATA ONLY) APPLICATION



MIXTURE OF LOCAL AND REMOTE APPLICATIONS



1. ALL BC05D AND BC03M CABLES, MODEMS AND TERMINALS MUST BE ORDERED SEPARATELY AND SUPPLIED WHEN REQUIRED AS THEY ARE NOT SUPPLIED WITH DN25 SUBSYSTEM.
2. "XX" IS TYPICALLY 25 FT FOR THE BC05D CABLE. CONDITIONS IN EIA SPECIFICATION RS-232-C MUST BE ADHERED TO REGARDLESS OF CABLE LENGTH.
3. ACCEPTABLE CUSTOMER EQUIVALENT CABLE FOR PROPER OPERATION IS BELDEN 8777.
4. IF DATA RATE IS 2400 BAUD OR LESS "XX" MAY BE ANY LENGTH UP TO 1000 FT. IF DATA RATE IS GREATER THAN 2400 BAUD "XX" MUST NOT EXCEED 250 FT. IF TWO CABLES ARE USED TOGETHER (I.E. BC03M & BC05D), THEIR COMBINED LENGTH MUST NOT EXCEED 1000 FT OR 250 FT RESPECTIVELY. THE MAXIMUM DATA RATE OF ANY LINE IS 9600 BAUD. ELECTRICAL ENVIRONMENTAL CONDITIONS STATED IN EIA SPECIFICATION RS 423 MUST BE ADHERED TO REGARDLESS OF CABLE LENGTH.

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REVISIONS		
CHK	CHANGE NO.	REV.

digital  
 DATE 26-APR-78  
 ENG. F. Opl  
 DATE 27-APR-78  
 TITLE: KS10 PROCESSOR UNIT ASSY  
 SHEET 24 OF 31  
 BOARD LOCATION:  
 DZ11.DRW(4,211) 26-APR-78 09:03 NEXT HIGHER ASSEMBLY:  
 FIRST USED ON OPTION/MODEL: KS10 B-DD-KS10-0

REV. 0  
 SIZE CODE D  
 NUMBER UA  
 KS10-0-0

MR

---- DISTANCE TABLE ----

IF RESTRICTED BY BELL PUB 43401		FOR COMM LINK II		IF CUSTOMER PROVIDED TWISTED PAIR (24 AWG)	
BAUD RATE	DISTANCE	BAUD RATE	DISTANCE	BAUD RATE	DISTANCE
2.4 KBPS	12.8 KM	2.4 KBPS	12.8 KM	2.4 KBPS	12.8 KM
4.8 KBPS	9.8 KM	4.8 KBPS	9.6 KM	4.8 KBPS	9.6 KM
7.2 KBPS	3.36 KM	7.2 KBPS	7.36 KM	7.2 KBPS	7.36 KM
9.6 KBPS	2.24 KM	9.6 KBPS	6.88 KM	9.6 KBPS	6.88 KM
19.2 KBPS	1.6 KM	19.2 KBPS	4.96 KM	19.2 KBPS	4.96 KM

1489L INPUT  
(EIA LEVELS)  
6V TO 1.5V  
0V TO -6V

1489L OUTPUT  
(TTL LEVELS)  
0.0V TO 0V  
2.4V TO 5V

EACH 1489L HAS AN EXTERNAL RESPONSE CONTROL INPUT THAT IS CONNECTED TO ONE SIDE OF A 470 pf CAPACITOR. THE OTHER SIDE OF THE CAPACITOR IS CONNECTED TO GROUND. THE UNGROUNDED SIDE OF THE CAPACITOR IS ALSO CONNECTED TO ONE PAIR OF TERMINALS. THE OTHER TERMINAL IS CONNECTED TO -15V. IF DESIRED, A RESISTOR CAN BE CONNECTED ACROSS THE TERMINALS TO CHANGE THE THRESHOLD VOLTAGE FOR THE LEVEL CONVERSION. THE DUP11 IS SHIPPED WITHOUT RESISTORS INSTALLED.

1488 INPUT  
(TTL LEVELS)  
0.4V TO 0V  
2.4V TO 5V

1488 OUTPUT  
(EIA LEVELS)  
3V TO 6V  
-3V TO -6V

FOR TIMING AND CONTROL INTERCHANGE CIRCUITS, THE FUNCTION SHALL BE CONSIDERED ON WHEN THE VOLTAGE (V1) ON THE INTERCHANGE CIRCUIT IS MORE POSITIVE THAN PLUS THREE VOLTS WITH RESPECT TO CIRCUIT AB, AND SHALL BE CONSIDERED OFF WHEN THE VOLTAGE (V1) IS MORE NEGATIVE THAN MINUS THREE VOLTS WITH RESPECT TO CIRCUIT AB. THE FUNCTION IS NOT UNIQUELY DEFINED FOR VOLTAGES IN THE TRANSITION REGION BETWEEN PLUS THREE VOLTS AND MINUS THREE VOLTS.

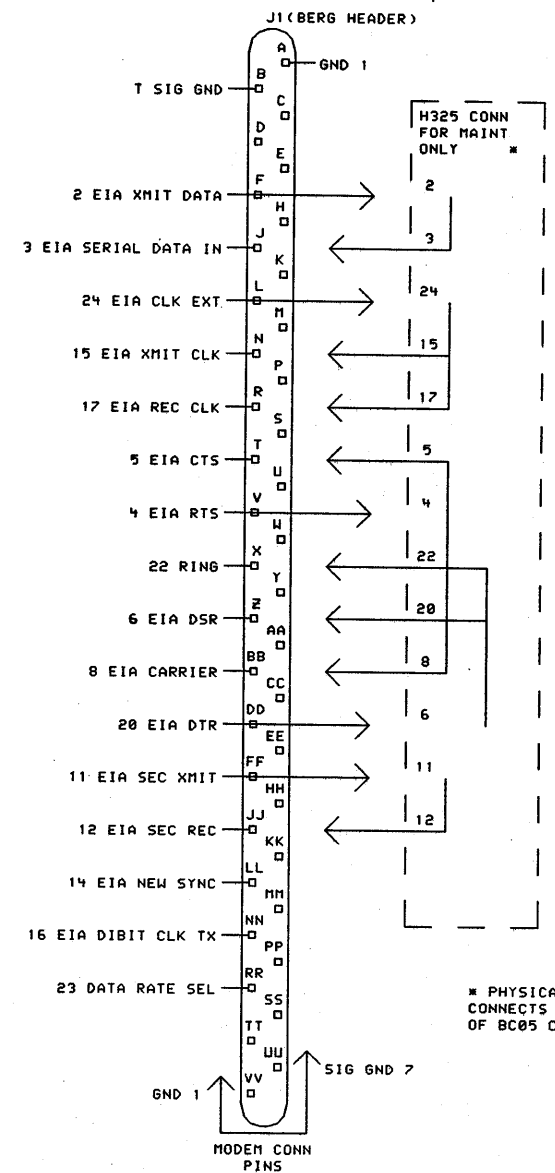
NOTATION	INTERCHANGE VOLTAGE	
	NEGATIVE	POSITIVE
BINARY STATE	1	0
SIGNAL CONDITION	MARKING OFF	SPACING ON
FUNCTION		

\* COMPATABLE MODEMS RECOMMENDED CUSTOMER OPTIONS.

208A- BASIC UNCONDITIONED 4 WIRE PRIVATE LINE, 3002 CHANNEL, POINT TO POINT OPERATION.

LINE INTERFACE-4 WIRE PRIVATE LINE.  
TRANSMIT TIMING-INTERNAL.  
CARRIER-SWITCHED.  
REQUEST TO SEND-SWITCHED(8MS CA-CB DELAY).  
1 SEC. HOLDCOVER-PROVIDED(IN).  
NEW SYNC OPTION-NOT USED-NEW SYNC IS STRAPPED "OFF" WITHIN DATA SET.  
DATA SET READY LEAD OPTION-CC IS "OFF" WHEN AL BUTTON IS PUSHED.  
GROUNDED-AB CONNECTED TO AA.

208B- 2 WIRE SWITCHED NETWORK-HALF DUPLEX.  
TRANSMITTER TIMING - DATA SET(INTERNAL).  
DATA SET READY LEAD OPTION - CC"ON" WHEN AL BUTTON IS PUSHED.  
ACU (WITH OR WITHOUT) - WITHOUT.  
AUTO ANSWER - SELECTABLE.



DB25-PORTS PIN NUMBER	INTERCHANGE CIRCUIT	C.C.I.T.T. EQUIVALENT	RS-232-C DISCRPTION
1 7	AA AB	101 102	PROTECTIVE GROUND SIGNAL GROUND/Common RETURN
2 3	BA BB	103 104	TRANSMITTED DATA RECEIVED DATA
4 5 6 20 22 8 21 23 23	CA CB CC CD CE CF CG CH CI	105 106 107 108.2 125 109 110 111 112	REQUEST TO SEND CLEAR TO SEND DATA SET READY DATA TERMINAL READY RING INDICATOR RECEIVED LINE SIGNAL DETECTOR SIGNAL QUALITY DETECTOR DATA SIGNAL RATE SELECTOR (DTE) DATA SIGNAL RATE SELECTOR (DCE)
24 15 17	DA DB DD	113 114 115	TRANSMITTER SIGNAL ELEMENT TIMING (DTE) TRANSMITTER SIGNAL ELEMENT TIMING (DCE) RECEIVER SIGNAL ELEMENT TIMING (DCE)
14 16	SBA SBB	118 119	SECONDARY TRANSMITTED DATA SECONDARY RECEIVED DATA
19 13 12	SCA SCB SCF	120 121 122	SECONDARY REQUEST TO SEND SECONDARY CLEAR TO SEND SECONDARY REC'D LINE SIGNAL DETECTOR

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REVISIONS		
CHK	CHANGE NO.	REV

digital *DRW. J. Looney* DATE 26-APR-78 ENG. F. Call DATE 21 APR 78  
 CHK'D. J. H. DATE 17 APR 78 BOARD LOCATION: SHEET 25 OF 31  
 DUP2.DRW(4,211) 26-APR-78 09:04 NEXT HIGHER ASSEMBLY: SIZE CODE NUMBER REV.  
 FIRST USED ON OPTION/MODEL: KS10 B-DD-KS10-0 D UA KS10-0-0

TITLE: KS10 PROCESSOR UNIT ASSY

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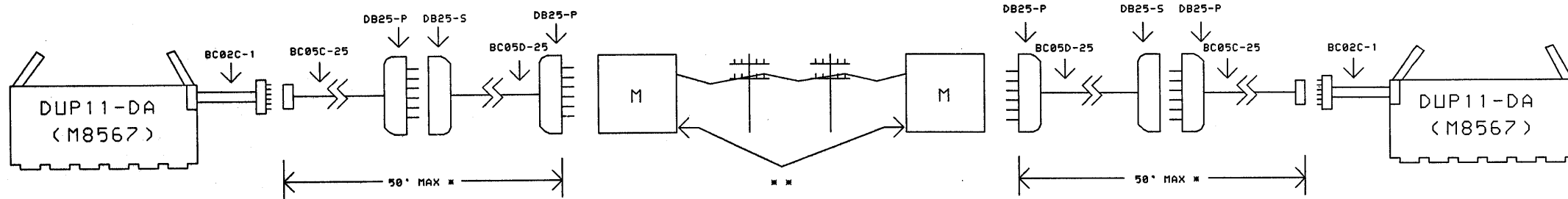
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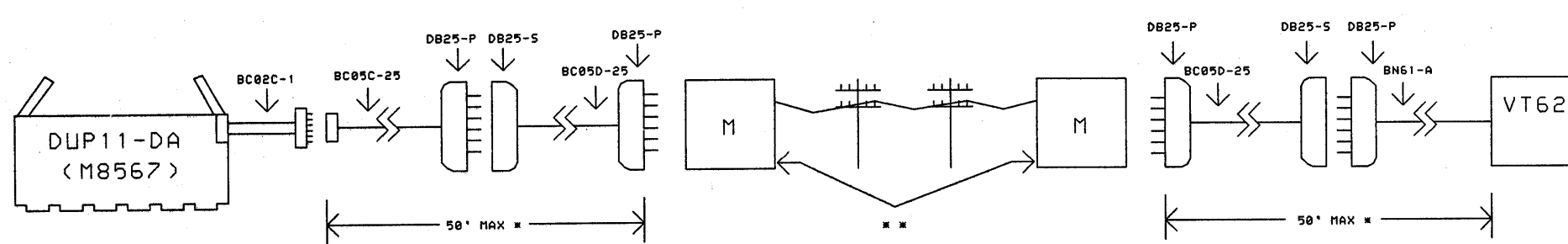
1

REV.	0-0-0-0	UN	Q
NUMBER	KS10-0-0	UA	3215

REMOTE SYNCHRONOUS MODEM CONNECTIONS (SYSTEM TO SYSTEM)

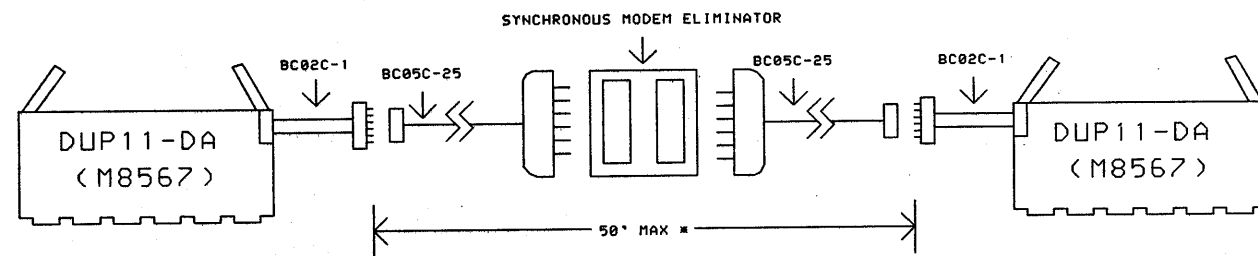


REMOTE SYNCHRONOUS MODEM CONNECTIONS (SYSTEM TO TERMINAL)

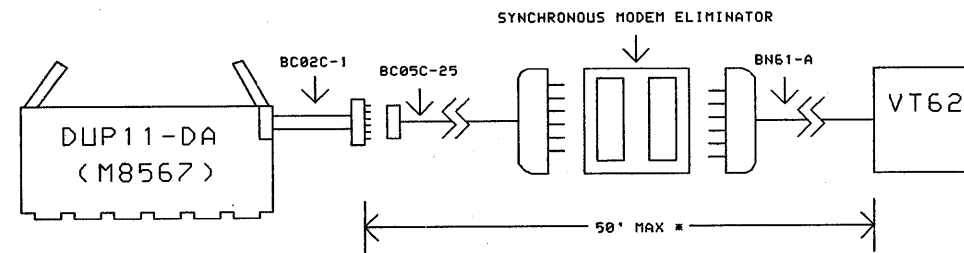


\* IF BC05C-25 WILL REACH TO DATA COMMUNICATION EQUIPMENT, THE BC05D-25 MAY BE EXCLUDED, IF BOTH CABLES ARE USED, THE 50' MAXIMUM DISTANCE MUST BE ADHERED TO.

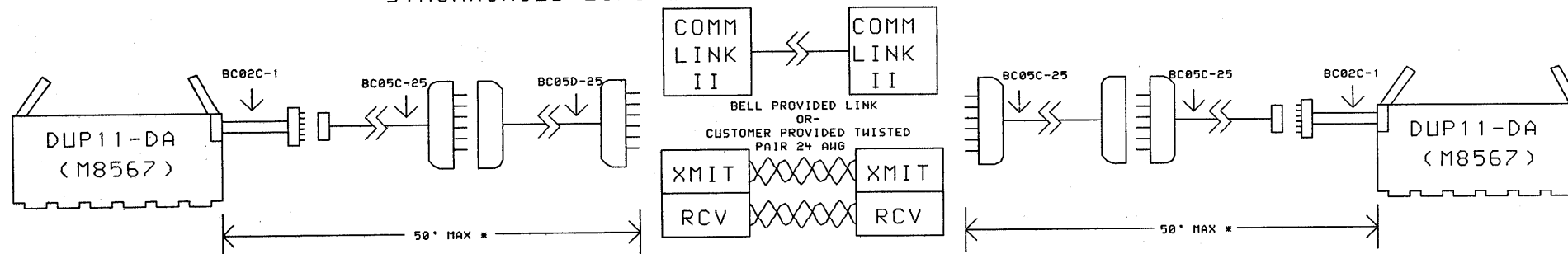
LOCAL SYNCHRONOUS NULL MODEM CONNECTION (SYSTEM TO SYSTEM)



LOCAL SYNCHRONOUS NULL MODEM CONNECTION (SYSTEM TO TERMINAL)



SYNCHRONOUS LIMITED DISTANCE ADAPTERS (SHORT HAUL) SEE DISTANCE TABLE ON SHEET 21



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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRW. J. J. J.	DATE 26-APR-78	ENG. J. J. J.	DATE 26-APR-78	TITLE: KS10 PROCESSOR UNIT ASSY
	CHK'D.	DATE	BOARD LOCATION:	SHEET 26 OF 31	SIZE CODE NUMBER REV.
DUP1.DRW(4,211)		126-APR-78 09:03	NEXT HIGHER ASSEMBLY:	D UA	KS10-0-0
FIRST USED ON OPTION MODEL: KS10		B-DD-KS10-0			

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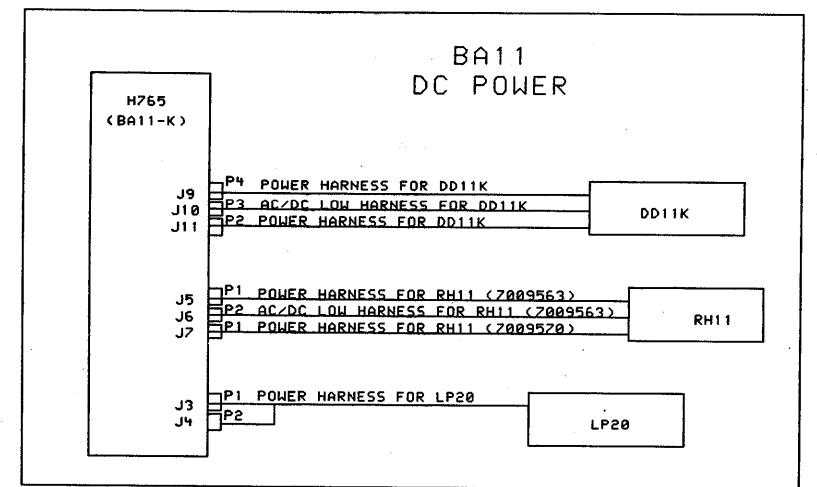
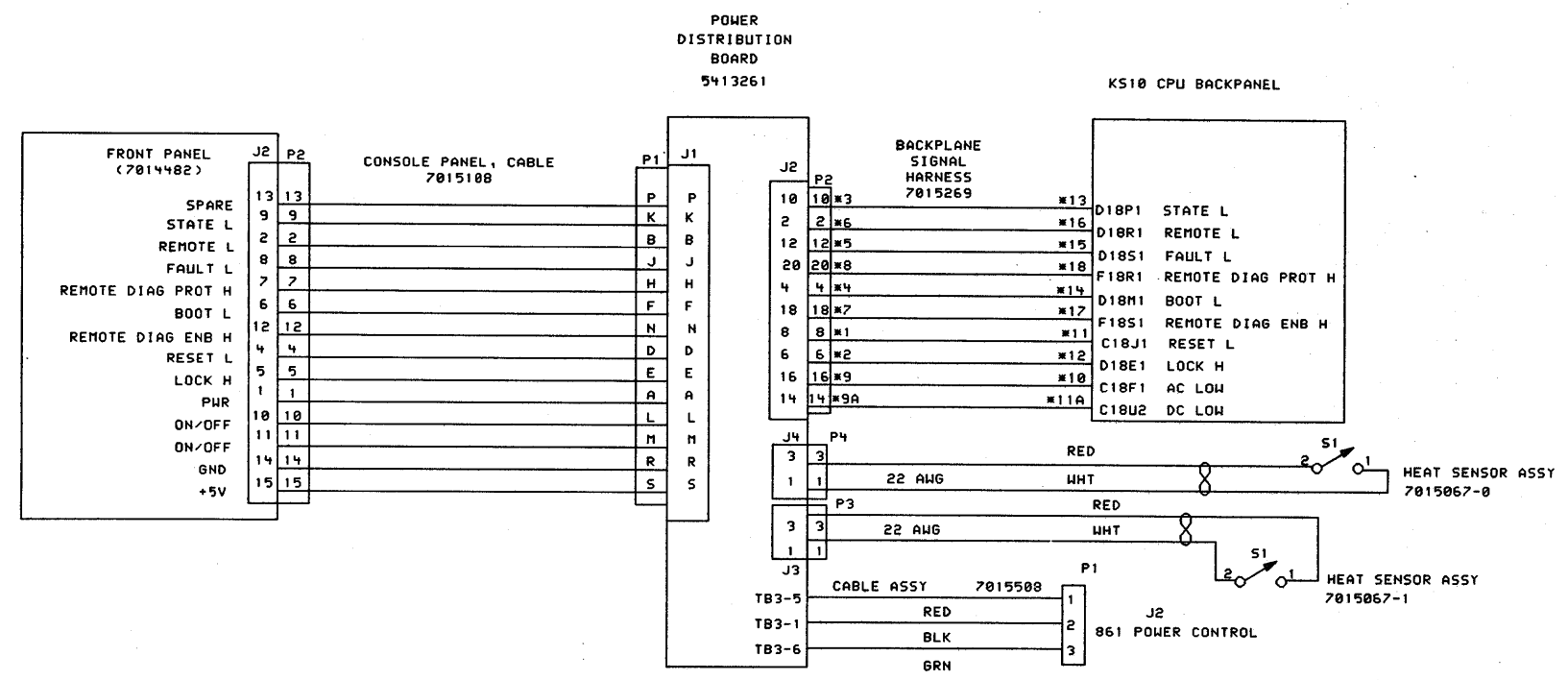
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NOTE:

- 1. ADDITIONAL POWER DIST. BOARD CONNECTIONS FOUND ON SHEETS 28, 29, 30, 31, & 32

\* DENOTES BRADY MARKER NUMBERS



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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN. J. Loomis	DATE 25-APR-78	ENG. J. Col	DATE 25 Apr 78	TITLE: KS10 PROCESSOR UNIT ASSY
	CHK'D. J. Hum	DATE 7/10/78	BOARD LOCATION: SHEET 27 OF 31	NEXT HIGHER ASSEMBLY: B-DD-KS10-0	SIZE CODE NUMBER REV. D UA KS10-0-0
DCAKSI.DRW 4,3313		125-APR-78 16:02	FIRST USED ON OPTION/MODEL: KS10		

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REV.	0-0-0	KS10	UA	D	3121
NUMBER	0-0-0	KS10	UA	D	3121

### KS10 CABINET

#### NOTES:

- 1.1 FOR 60HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014323-3
- 1.2 FOR 60 HZ OPERATION, POWER SUPPLY (H7130C) USES POWER CORD D-IA-7015137.
- 1.3 FOR 50HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014324-3
- 1.4 FOR 50HZ OPERATION, POWER SUPPLY (H7130D) USES POWER CORD D-IA-7015325.
- 2.1 BELOW DESCRIBES OUTLETS FOR 861-C POWER CONTROL:

	CURRENT CAPACITY	CIRCUIT	
P1	20A	1	UN-SW
P2	20A	2	UN-SW
P3	20A	1	SW
P4	20A	1	SW
P5	20A	2	SW
P6	20A	2	SW

- 2.2 BELOW DESCRIBES OUTLET FOR 861-B POWER CONTROL:

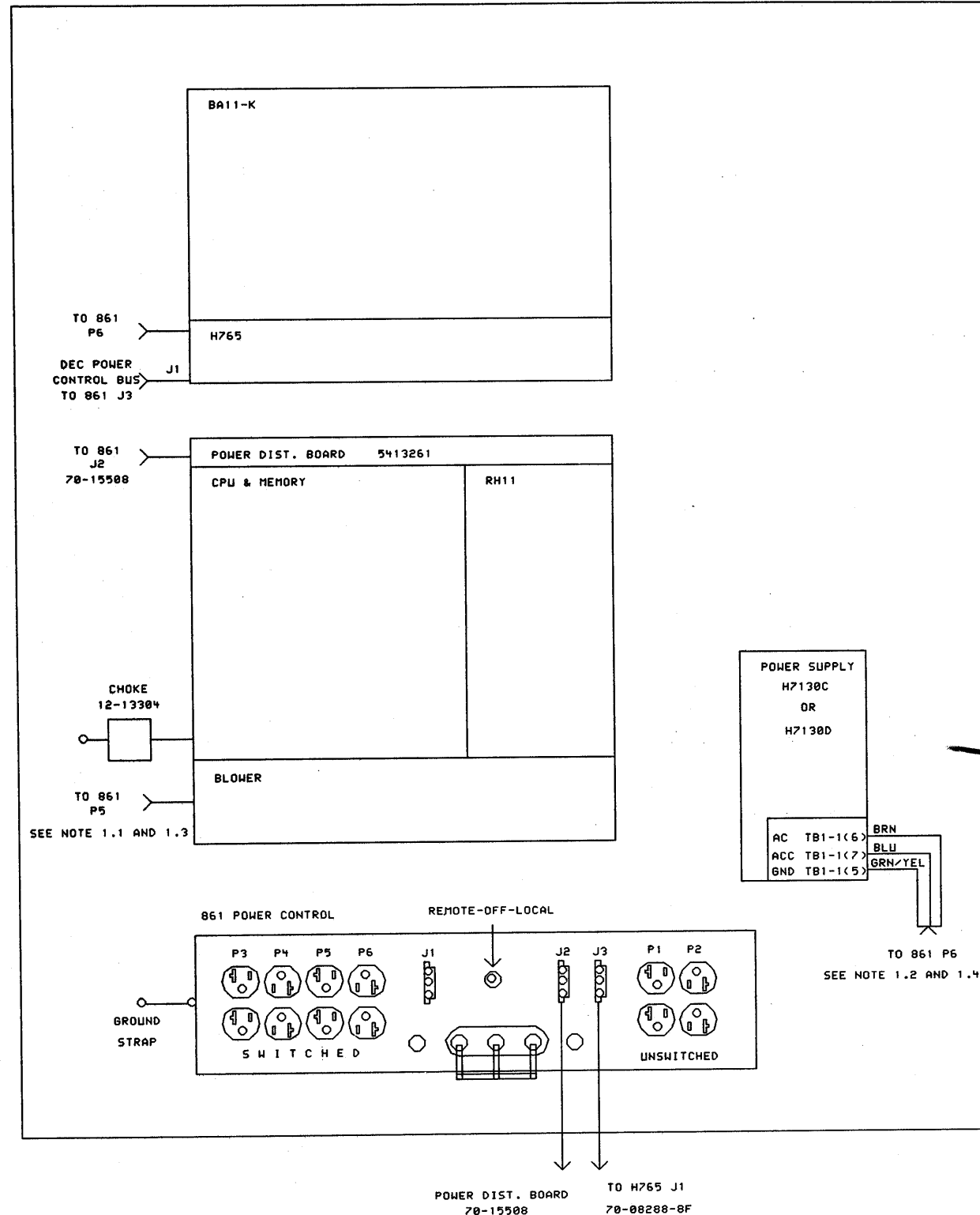
	CURRENT CAPACITY	CIRCUIT	
P1	16A	1	UN-SW
P2	16A	2	UN-SW
P3	16A	1	SW
P4	16A	1	SW
P5	16A	2	SW
P6	16A	2	SW

- 3. GROUND STRAPS ARE TO BE USED TO PROVIDE A SOLID GROUND FOR POWER CONTROL.

- 4.1 FOR 60HZ (KS-10) OPERATION USE:
  - H765A POWER SUPPLY
  - H7130C POWER SUPPLY
  - 861-C POWER CONTROL
  - 12-13956 BLOWER

- 4.2 FOR 50HZ (KS-10) OPERATION USE:
  - H765B POWER SUPPLY
  - H7130D POWER SUPPLY
  - 861-B POWER CONTROL
  - 12-13956 BLOWER

- 5. VIEW FROM REAR OF CABINET.
- 6. DRAWING NOT TO SCALE.



AC POWER WIRING FOR H7130C & H7130D

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REVISIONS		
CHK	CHANGE NO.	REV.

DRN: J. J. J.	DATE: 26-APR-78	ENG: F. Call	DATE: 26-APR-78	TITLE: KS10 PROCESSOR UNIT ASSY
CHK'D: J. J. J.	DATE: 27-APR-78	BOARD LOCATION: 28	OF 31	
ULACKS.DRNL4,3313	126-APR-78 14:04	NEXT HIGHER ASSEMBLY: B-DD-KS10-0		
FIRST USED ON OPTION/MODEL: KS10				

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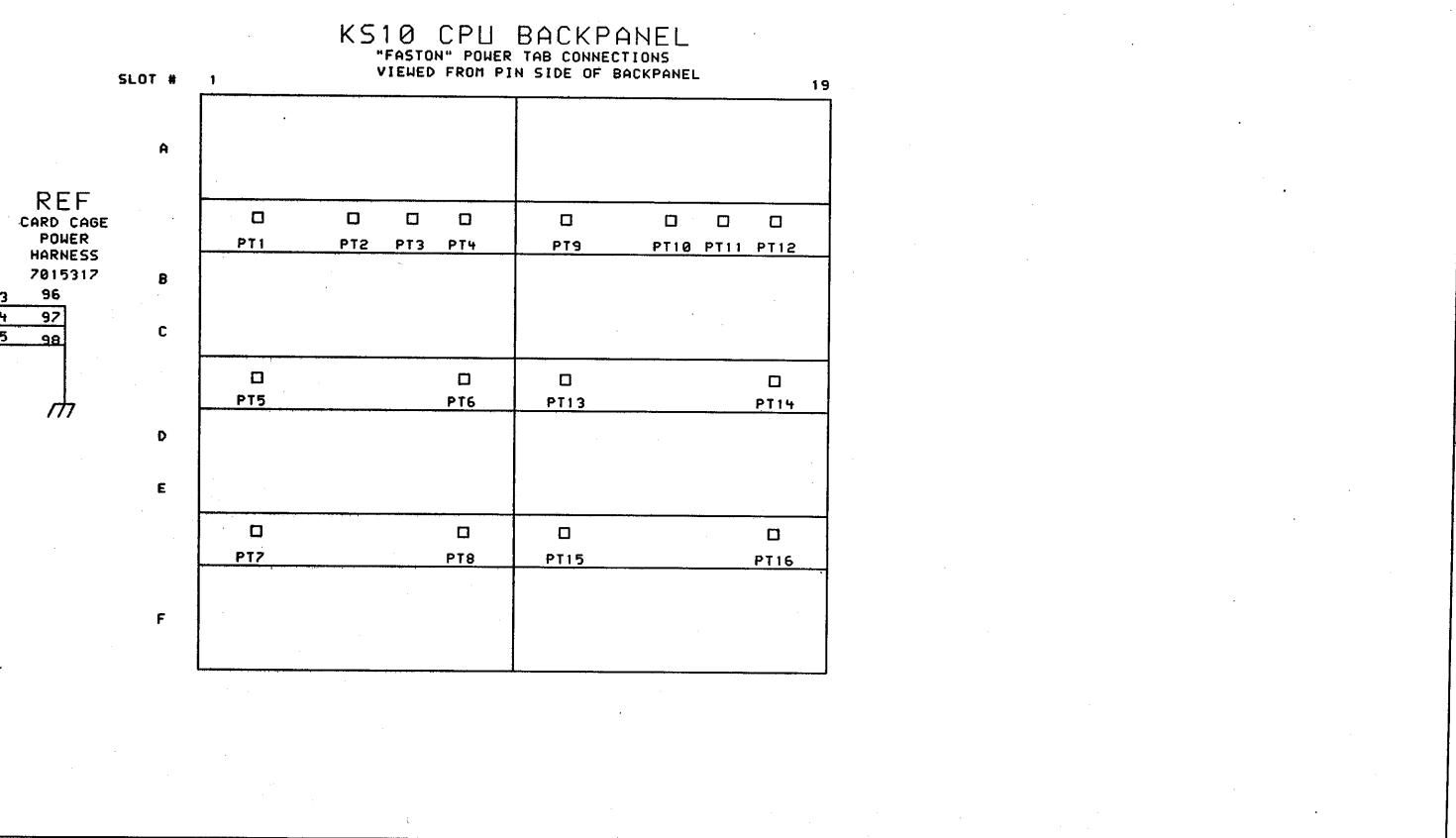
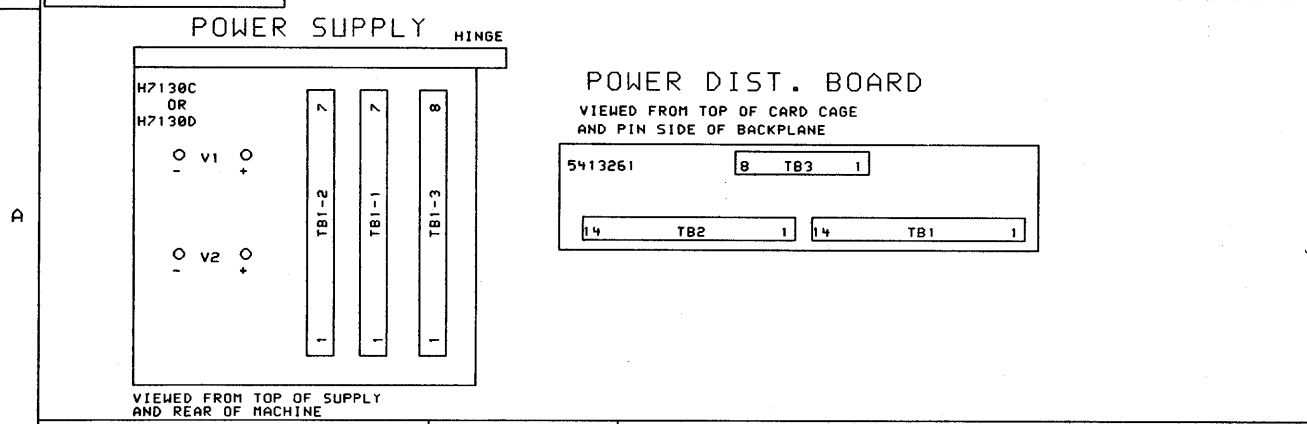
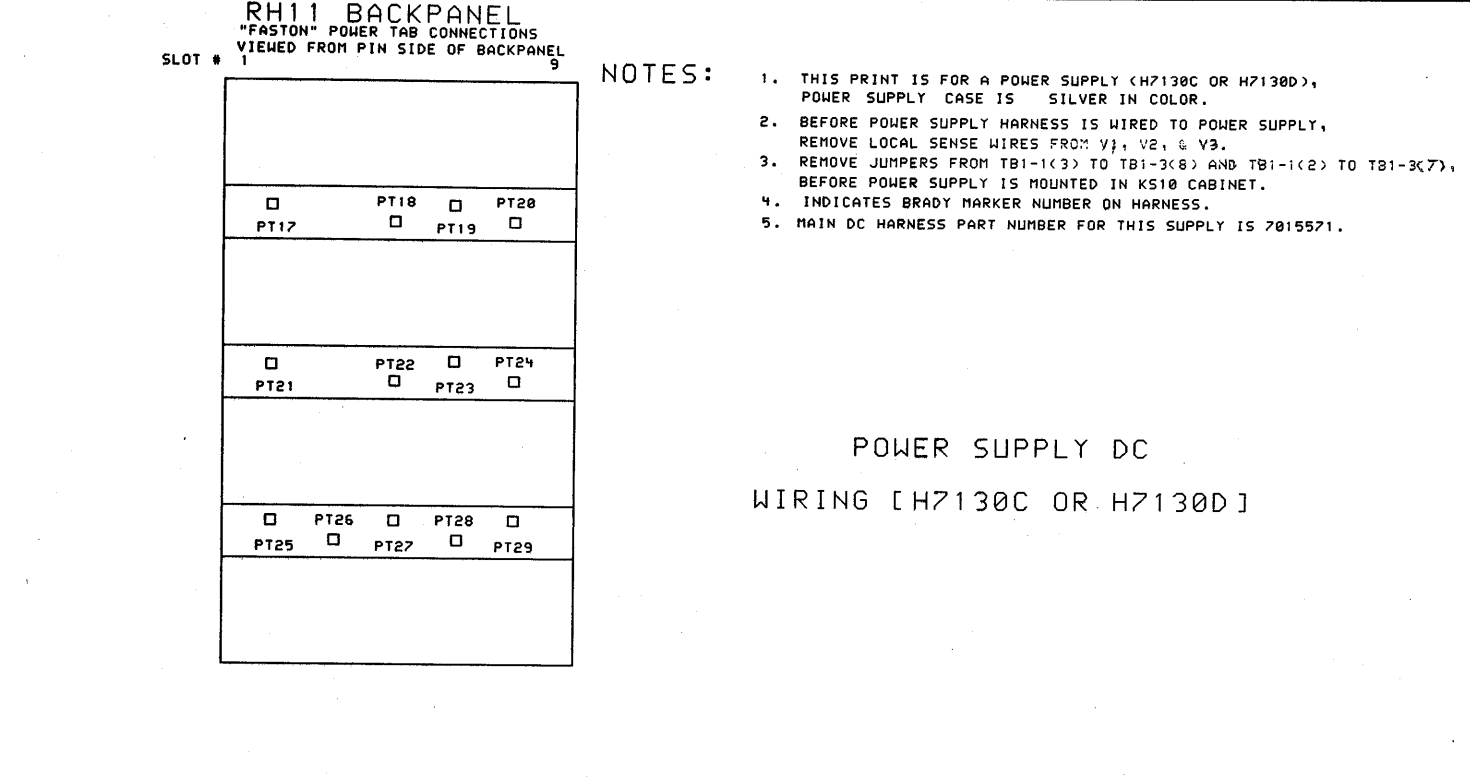
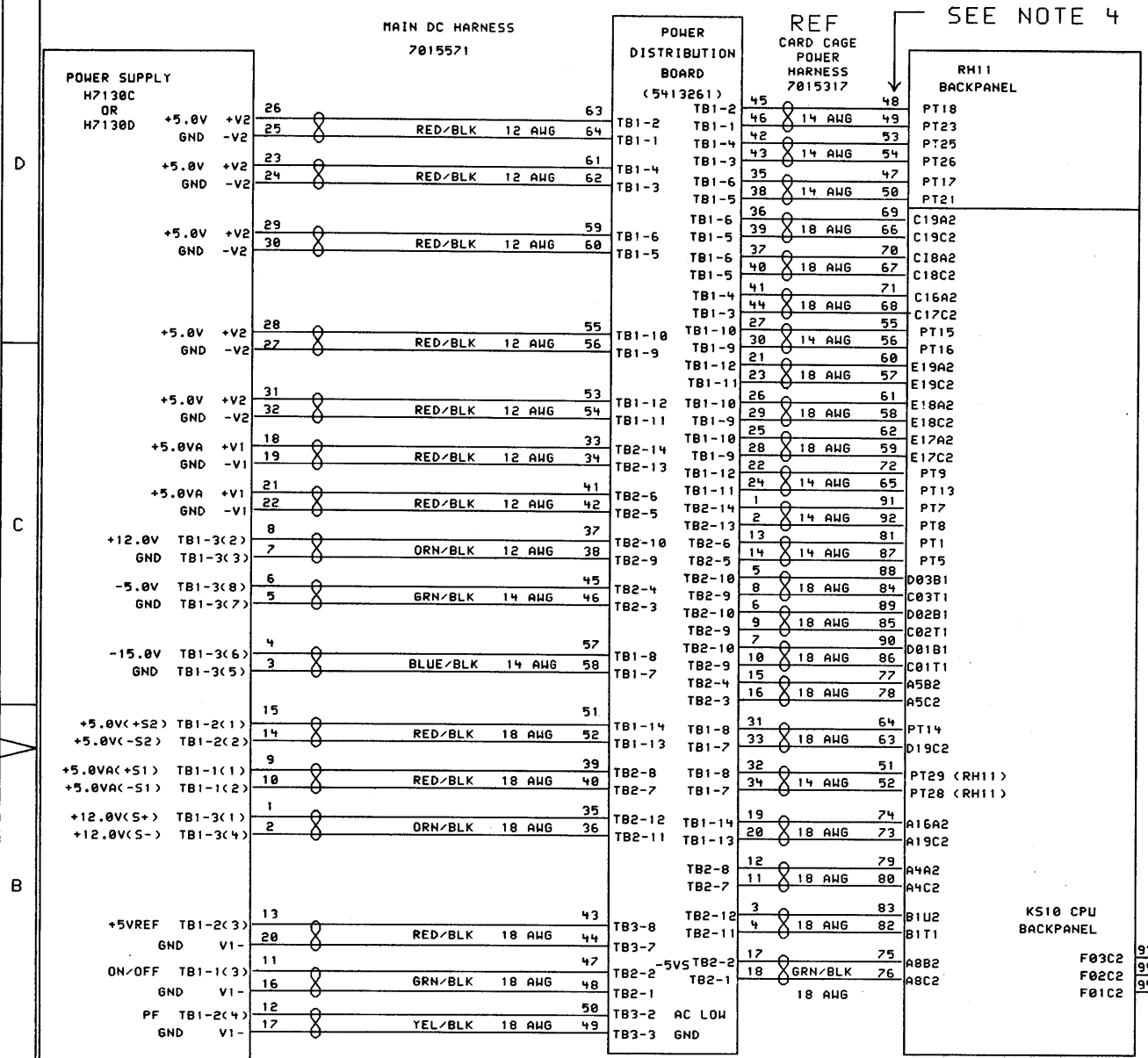
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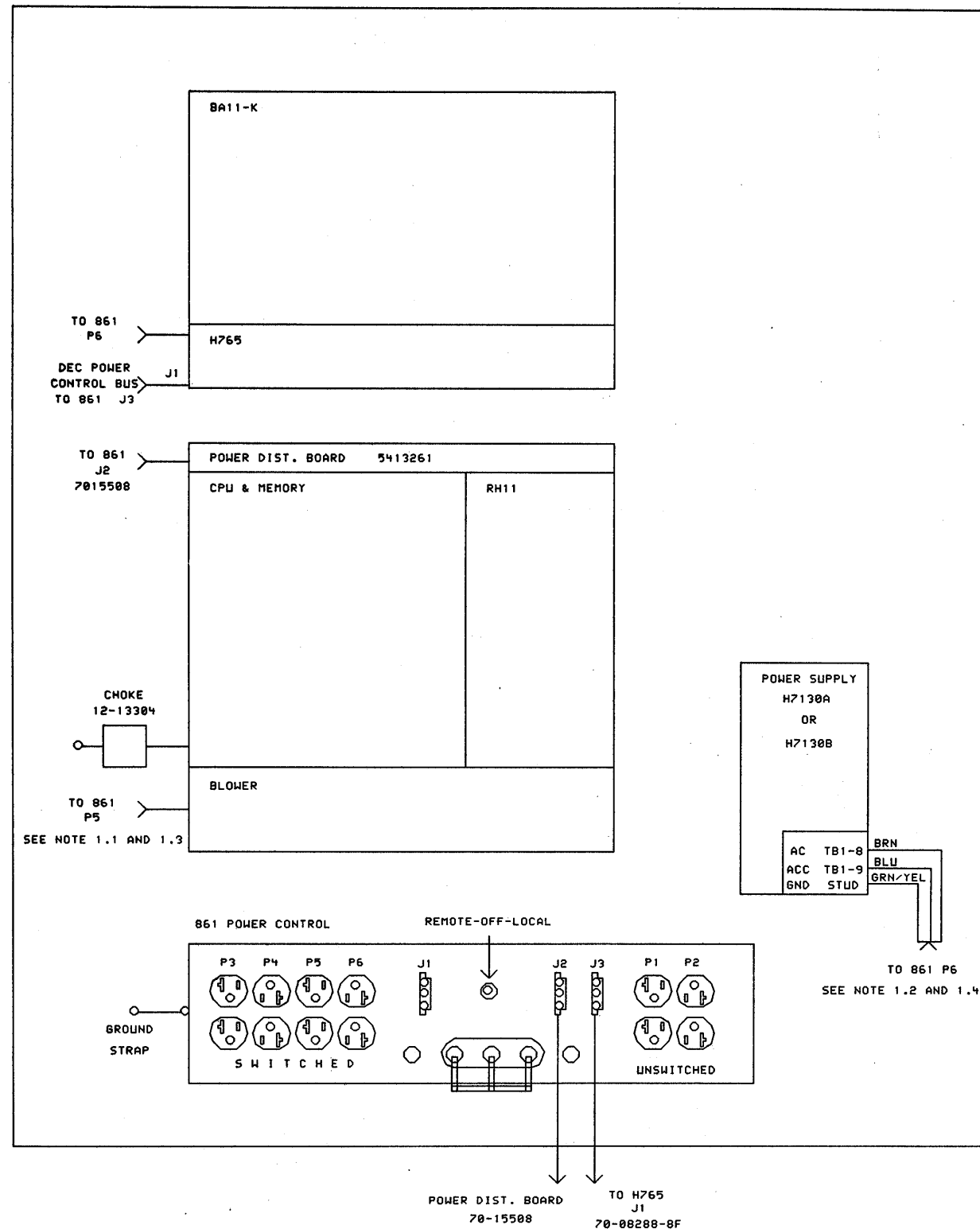
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REV.	0-0-015K	UN	D
NUMBER	3000	3000	3000

# KS10 CABINET



### NOTES:

- 1.1 FOR 60HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014323-3
- 1.2 FOR 60 HZ OPERATION, POWER SUPPLY (H7130A) USES POWER CORD D-1A-7015137.
- 1.3 FOR 50HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014324-3
- 1.4 FOR 50HZ OPERATION, POWER SUPPLY (H7130B) USES POWER CORD D-1A-7015325.
- 2.1 BELOW DESCRIBES OUTLETS FOR 861-C POWER CONTROL:

	CURRENT CAPACITY	CIRCUIT	
P1	20A	1	UN-SW
P2	20A	2	UN-SW
P3	20A	1	SW
P4	20A	1	SW
P5	20A	2	SW
P6	20A	2	SW

- 2.2 BELOW DESCRIBES OUTLET FOR 861-B POWER CONTROL

	CURRENT CAPACITY	CIRCUIT	
P1	16A	1	UN-SW
P2	16A	2	UN-SW
P3	16A	1	SW
P4	16A	1	SW
P5	16A	2	SW
P6	16A	2	SW

- 3. GROUND STRAPS ARE TO BE USED TO PROVIDE A SOLID GROUND FOR POWER CONTROL.

- 4.1 FOR 60HZ (KS-10) OPERATION USE:
  - H765A POWER SUPPLY
  - H7130A POWER SUPPLY
  - 861-C POWER CONTROL
  - 12-13956 BLOWER
- 4.2 FOR 50HZ (KS-10) OPERATION USE:
  - H765B POWER SUPPLY
  - H7130B POWER SUPPLY
  - 861-B POWER CONTROL
  - 12-13956 BLOWER
- 5. VIEW FROM REAR OF CABINET.
- 6. DRAWING NOT TO SCALE.

AC POWER WIRING FOR H7130A & H7130B  
 DEC P/N 3014945-00 & 3014945-01 RESPECTIVELY

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REVISIONS		
CHK	CHANGE NO.	REV.

ACKS10.DRW 4,331	26-APR-78 14:05	DATE	26-APR-78	ENG	F. [Signature]	DATE	28 APR 78	TITLE:	KS10 PROCESSOR UNIT ASSY
FIRST USED ON OPTION/MODEL:	KS10	DATE	27 APR 78	BOARD LOCATION:	30	SHEET	30	OF	31
NEXT HIGHER ASSEMBLY:	B-DD-KS10-0	SIZE	D	CODE	UA	NUMBER	KS10-0-0	REV.	

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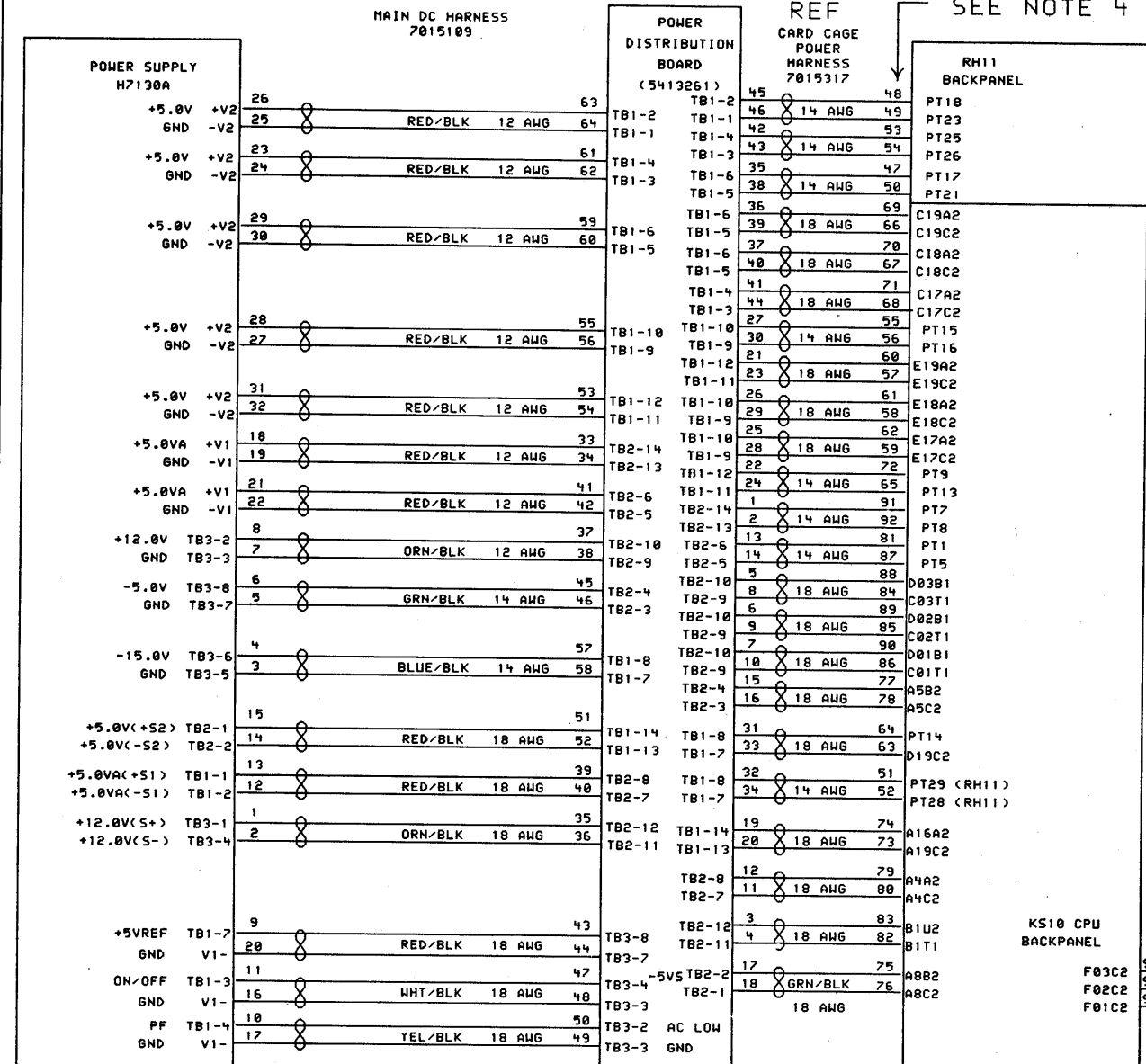
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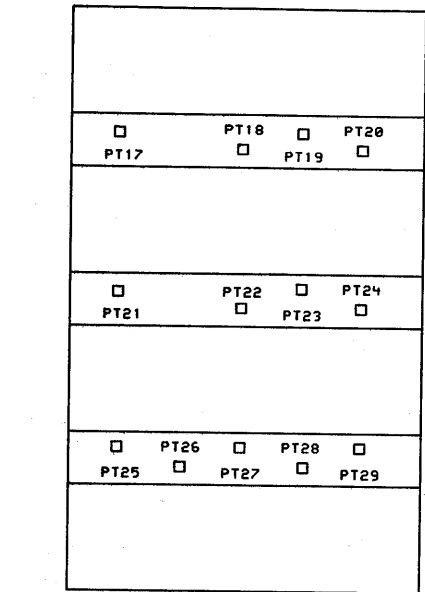
ML

REV. NUMBER KS10-0-0  
 SIZE CODE D UA



SEE NOTE 4

**RH11 BACKPANEL**  
"FASTON" POWER TAB CONNECTIONS  
VIEWED FROM PIN SIDE OF BACKPANEL

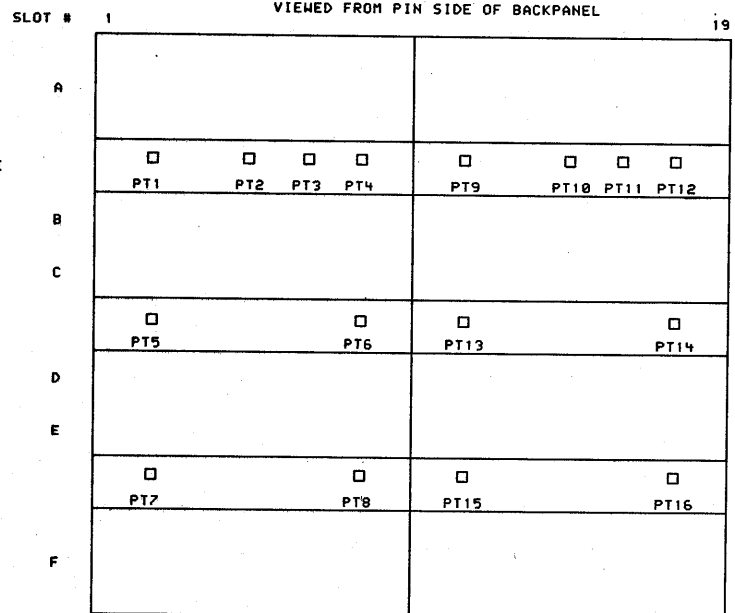


- NOTES:**
- THIS PRINT IS FOR A POWER SUPPLY (H7130A OR H7130B). POWER SUPPLY CASE COLOR IS BLUE.
  - BEFORE POWER SUPPLY HARNESS IS WIRED TO POWER SUPPLY, REMOVE LOCAL SENSE WIRES FROM V1, V2, & V3.
  - REMOVE JUMPER FROM TB1-2 AND TB1-3, BEFORE POWER SUPPLY IS MOUNTED IN KS10 CABINET.
  - INDICATES BRADY MARKER NUMBER ON HARNESS.
  - MAIN DC HARNESS PART NUMBER FOR THIS SUPPLY IS 7015109.

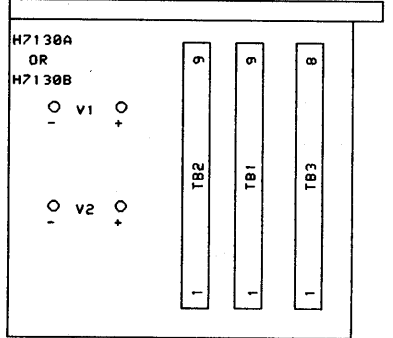
POWER SUPPLY DC  
WIRING [H7130A OR H7130B]

DEC P/N 3014945-00 & 3014945-01 RESP.

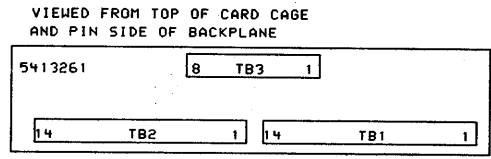
**KS10 CPU BACKPANEL**  
"FASTON" POWER TAB CONNECTIONS  
VIEWED FROM PIN SIDE OF BACKPANEL



**POWER SUPPLY**



**POWER DIST. BOARD**



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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. J. Joonky	DATE 26-APR-78	ENG. J. Do??	DATE 28 APR 78	TITLE: KS10 PROCESSOR UNIT ASSY
	CHK'D. J. Hux	DATE 11/1/78	BOARD LOCATION: SHEET 31 OF 31		
DCKS10.DRW(4,331)		26-APR-78 14:25	NEXT HIGHER ASSEMBLY: B-DD-KS10-0	SIZE CODE D UA	NUMBER KS10-0-0
FIRST USED ON OPTION/MODEL: KS10					





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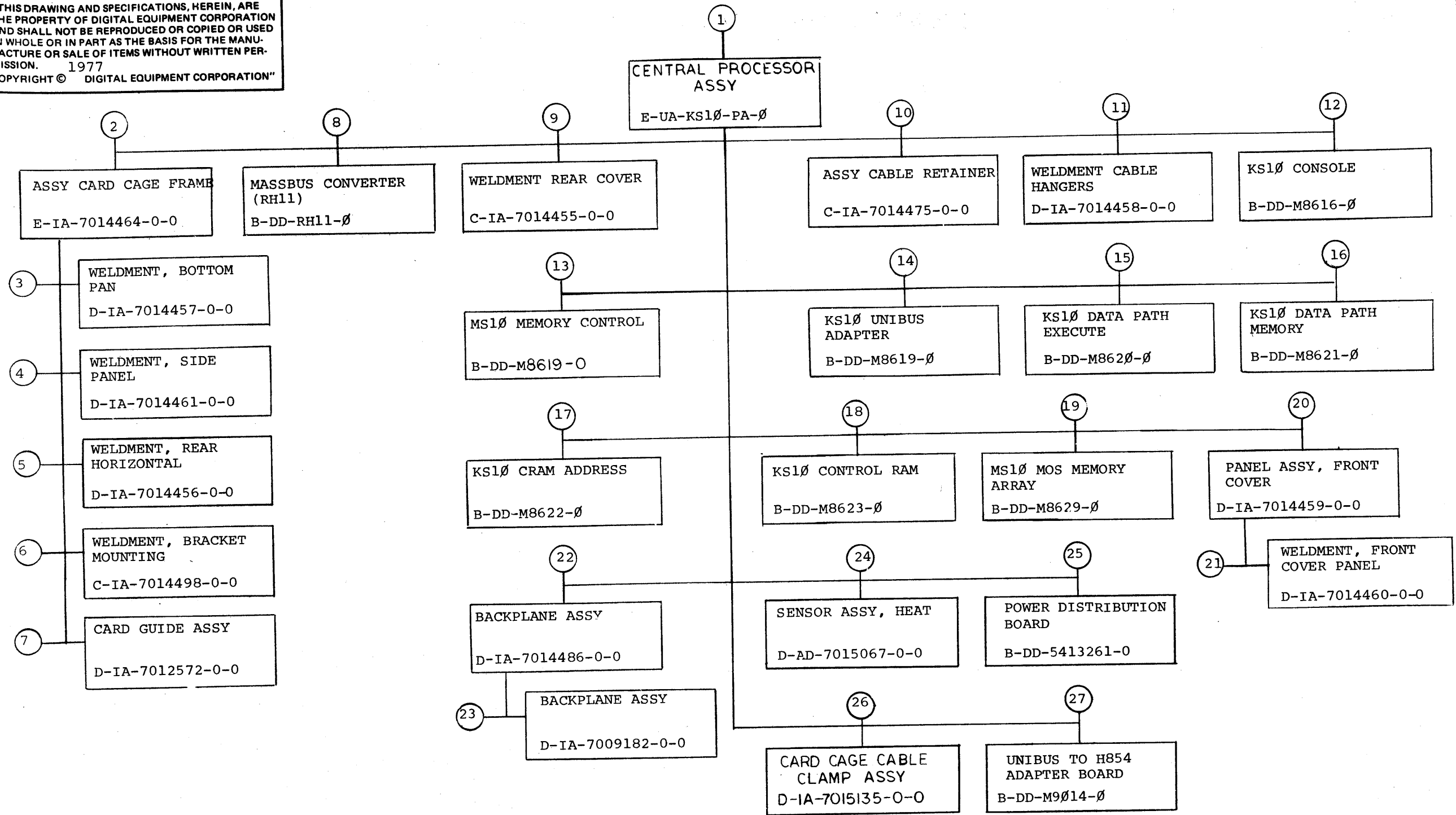
UNIT VARIATIONS	
VAR	TITLE
KS10-PA	CENTRAL PROCESSOR ASSY 50 / 60 HZ

REVISIONS	REV.	
	CHANGE NO.	
	CHK	

USED ON OPTION/MODEL	DRN.	DATE	TITLE			
KS10	<i>M. Pasquelli</i>	3 Oct 77	CENTRAL PROCESSOR ASSY			
	CHK'D.	DATE				
	<i>J. Huson</i>	20 Apr 78				
	PROJ. ENG.	DATE	SIZE	CODE	NUMBER	REV
	<i>T. Duvon</i>	4/20/78	B	DD	KS10-PA	
	PROD.	DATE				
	<i>W. Schaefer</i>	4-21-78				
SHEET 1 OF 5	DIST.					




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TITLE CENTRAL PROCESSOR ASSY	SHEET 2 OF 5	SIZE CODE B DD	NUMBER KS1Ø-PA	REV
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FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE				
19	B-DD-M8629-0	MS10 MOS MEMORY ARRAY	E								
20	D-IA-7014459-0-0	PANEL ASSY, FRONT COVER	M	24	D-AD-7015067-0-0	SENSOR ASSY, HEAT	E/M				
	C-MD-7417660-0-0	GASKET, STRIP	M		C-MD-7419815-0-0	SENSOR BRACKET	M				
					C-MD-7419814-0-0	BRACKET HOLD DOWN	M				
21	D-IA-7014460-0-0	WELDMENT, FRONT COVER PANEL	M	25	B-DD-5413261-0	POWER DISTRIBUTION BOARD	E/M				
	B-MD-7419303-0-0	LATCH	M		D-CS-5413261-0-0						
	D-IA-7419318-0-0	PANEL, FRONT COVER	M								
22	D-IA-7014486-0-0	BACKPLANE ASSY	E/M	26	D-IA-7015137-0-0	CARD CAGE CABLE CLAMP ASSY	M				
	B-MD-7419351-0-0	BAR, BACKPLANE SUPPORT	M		C-MD-7420099-0-0	CLAMP, CARD CAGE CABLE	M				
	A-WL-7014486-0-1	GENERAL WIRING SHEET	E								
23	D-IA-7009182-0-0	BACKPLANE ASSY	E/M	27	B-DD-M9014-0	UNIBUS TO H854 ADAPTER BOARD	E/M				
	5010332	ETCHED CIRCUIT BOARD	E								
	E-PS-1211439-0-0	LOGIC FRAME (1105)	M								
	E-PS-1210258-0-0	288 PIN BLOCK H863	M								
	D-PS-1211425-0-0	72 PIN CONNECTOR BLOCK H8030	M								
	K-WL-DH11-0-2	WIRE LIST	E								
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL						TITLE CENTRAL PROCESSOR ASSY		SHEET 5 OF 5	SIZE CODE <b>B DD</b>	NUMBER KS10-PA	REV

DRB 108A

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION									
MADE BY <i>J. Huson</i>		CHECKED <i>J. Huson</i>		SECTION										
DATE <i>3 Oct 77</i>		DATE <i>20 Apr 78</i>		1										
ENG <i>F. Doll</i>		PROD <i>W. Williams</i>		ISSUED SECT.										
DATE <i>20 Apr 78</i>		DATE <i>4-21-78</i>		1										
ITEM NO.	DWG NO./PART NO.	DESCRIPTION												
1	E-IA-7014464-0-0	ASSY, CARD CAGE FRAME			1									
2	D-UA-RH11-C-0	RH11 UNIT ASSY			1									
3	D-IA-7014486-0-0	BACKPLANE ASSY			1									
4	C-IA-7014475-0	ASSY, CABLE RETAINER			2									
5	D-IA-7014458-0-0	WELDMENT, CABLE HANGERS			1									
6	D-IA-7419316-0-0	BRACKET, BLOWER MTG.			1									
7	A-SP-1213956-0-0	BLOWER CENTRIFUGAL			1									
8	D-PS-1212405-0	CARD GUIDE, SINGLE			29									
9	9007036	GROMMET, CATAPILLAR			A/R									
10	9006023-03	SCR, PHL TRUSS HD #6-32 x .44 LG			14									
11	9006659	WASHER, FLAT #6 HOLE			4									
12	9007649	WASHER, EXT TOOTH LOCK #6 HOLE			20									
13	9009613-01	SCR, PHL PAN HD TAPTITE #8-32 x 1.0 LG			12									
14	9008072	WASHER, EXT TOOTH LOCK #8 HOLE			12									
15	9006071-03	SCR, PHL TRUSS HD #10-32 x .38 LG			9									
16	9007651	WASHER, EXT TOOTH LOCK #10 HOLE			9									
17	E-UA-M8616-0-0	KS10 CONSOLE			1									
18	E-UA-M8618-0-0	MS10 MEMORY CONTROL			1									
19	E-UA-M8619-0-0	KS10 UNIBUS ADAPTER			2									
20	E-UA-M8620-0-0	KS10 DATA PATH EXECUTE			1									
21	E-UA-M8621-0-0	KS10 DATA PATH MEMORY			1									
22	E-UA-M8622-0-0	KS10 CRAM ADDRESS			1									
TITLE CENTRAL PROCESSOR ASSY				ASSY NO. E-UA-KS10-PA-0	SIZE <b>A</b>	CODE <b>PL</b>	NUMBER KS10-PA-0				REV	ECO NO.		
				SHEET 1 OF 3	DIST									

DEC FORM

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION									
MADE BY <i>J. Huson</i>		CHECKED <i>J. Huson</i>		SECTION										
DATE <i>3 Oct 77</i>		DATE <i>20 Apr 78</i>		1										
ENG <i>F. Doll</i>		PROD <i>W. Williams</i>		ISSUED SECT.										
DATE <i>20 Apr 78</i>		DATE <i>4-20-78</i>		1										
ITEM NO.	DWG NO./PART NO.	DESCRIPTION												
23	E-UA-M8623-0-0	KS10 CONTROL RAM			1									
24	E-UA-MS10-BA	MS10 MOS MEMORY ARRAY (M8629)			2									
25	D-IA-7419312-0-0	COVER, TOP			1									
26	D-IA-7014459-0-0	PANEL ASSY, FRONT COVER			1									
27	C-IA-7014455-0-0	WELDMENT, REAR COVER			1									
28	D-PS-1211630-0-0	CARD GUIDE			3									
29	1213304	LINE FILTER			1									
30	9009041-01	SCR, NYLON PAN HD #6-32 x .250 LG			2									
31	D-IA-7419816-0-0	BRACKET POWER DISTRIBUTION			1									
32	9006020-03	SCR, PHL TRUSS HD #6-32 x .25 LG			6									
33	9008340	PLASTIC CLAMP			2									
34	9008264	PAD, ADHESIVE			2									
35	9006707	WASHER FLAT NYLON #6			10									
36	9006572	NUT WING #10-32			3									
37	C-IA-7015508-0-0	CABLE ASSY, 861 TO PWR DIST. BOARD			1									
38	D-AD-7015067-0-0	SENSOR ASSY, HEAT			2									
39	D-UA-5413261	POWER DISTRIBUTION BOARD			1									
40	D-UA-BC05L-2	H355 TO H855 3M CABLE			3									
41	E-IA-7015317-0-0	CARD CAGE PWR. HARNESS			1									
42	D-UA-M9014-0-0	UNIBUS TO H854 ADAPTER BOARD			1									
43	9008212	SCR, SLOT PAN HD NYLON #6-32 x .44 LG			10									
44	D-IA-7015269-0-0	BACKPLANE SIGNAL HARNESS			1									
TITLE CENTRAL PROCESSOR ASSY				ASSY NO. E-UA-KS10-PA-0	SIZE <b>A</b>	CODE <b>PL</b>	NUMBER KS10-PA-0				REV	ECO NO.		
				SHEET 2 OF 3	DIST									

DEC FORM  
DRA 110

**DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS  
PARTS LIST**

MADE BY	J. Huson	CHECKED	J Huson	SECTION	
DATE	30 Oct 77	DATE	20 Apr 78		1
ENG	F. Doel	PROD	M. Balthausen	ISSUED SECT.	
DATE	20 Apr 78	DATE	4-20-78		1

QUANTITY VARIATION

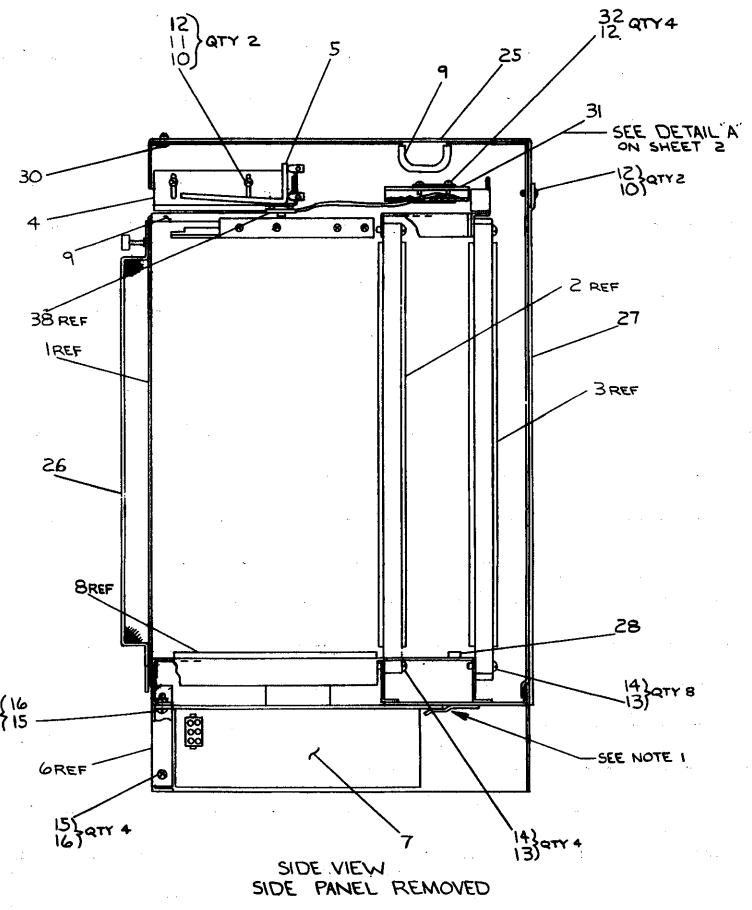
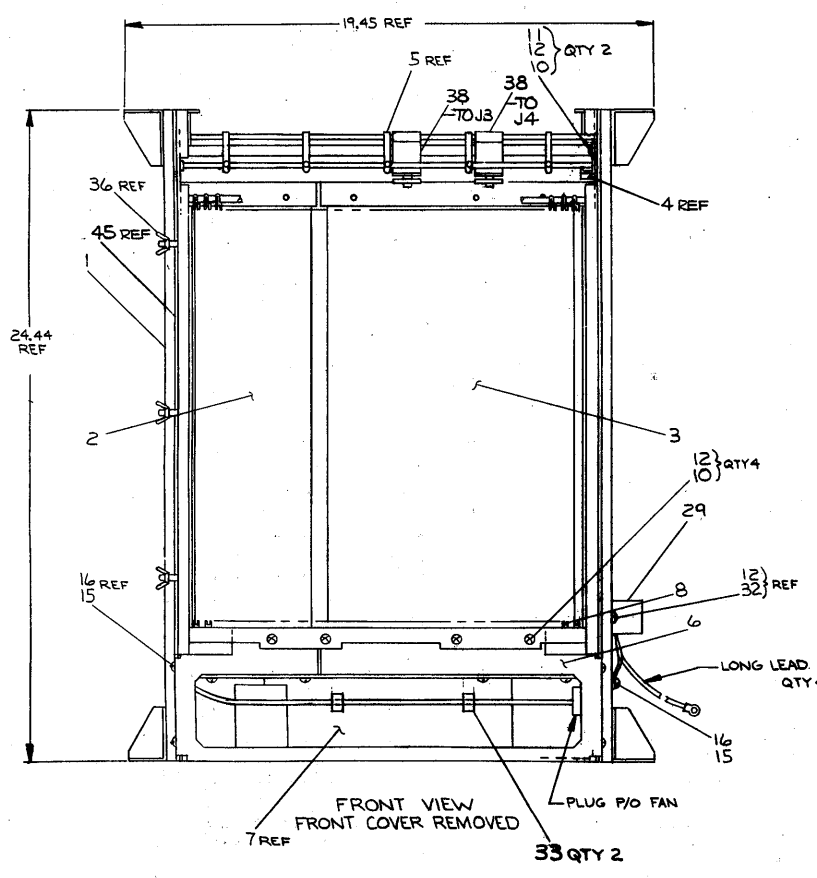
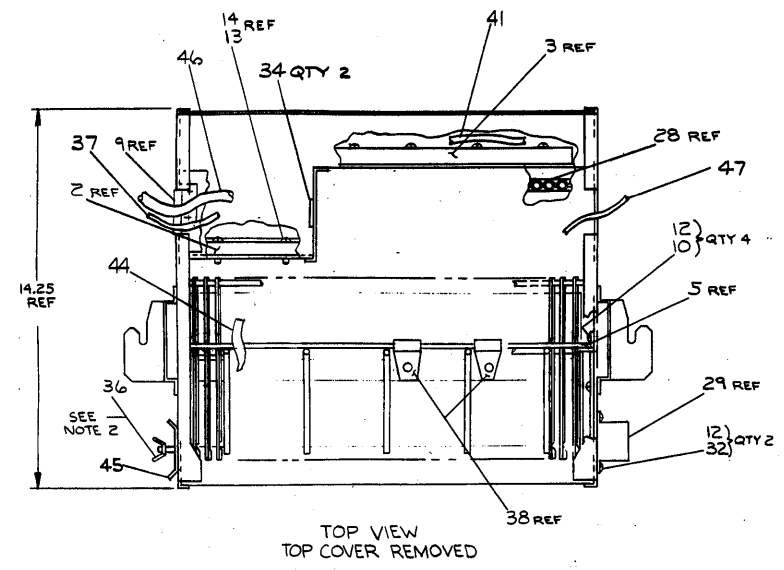
ITEM NO.	DWG NO./PART NO.	DESCRIPTION
45	D-1A-7015135-0-0	CLAMP ASSY, CARD CAGE CABLE
46	E-1A-7015571-0-0	HARNESS, MAIN D.C.
47	D-1A-7015108-0-0	CABLE, CONSOLE PANEL


TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
CENTRAL PROCESSOR ASSY	E-UA-KSIØ-PA-Ø	A	PL	KSIØ-PA-Ø		
SHEET 3 OF 3		DIST				



ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES  
 DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS  
 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

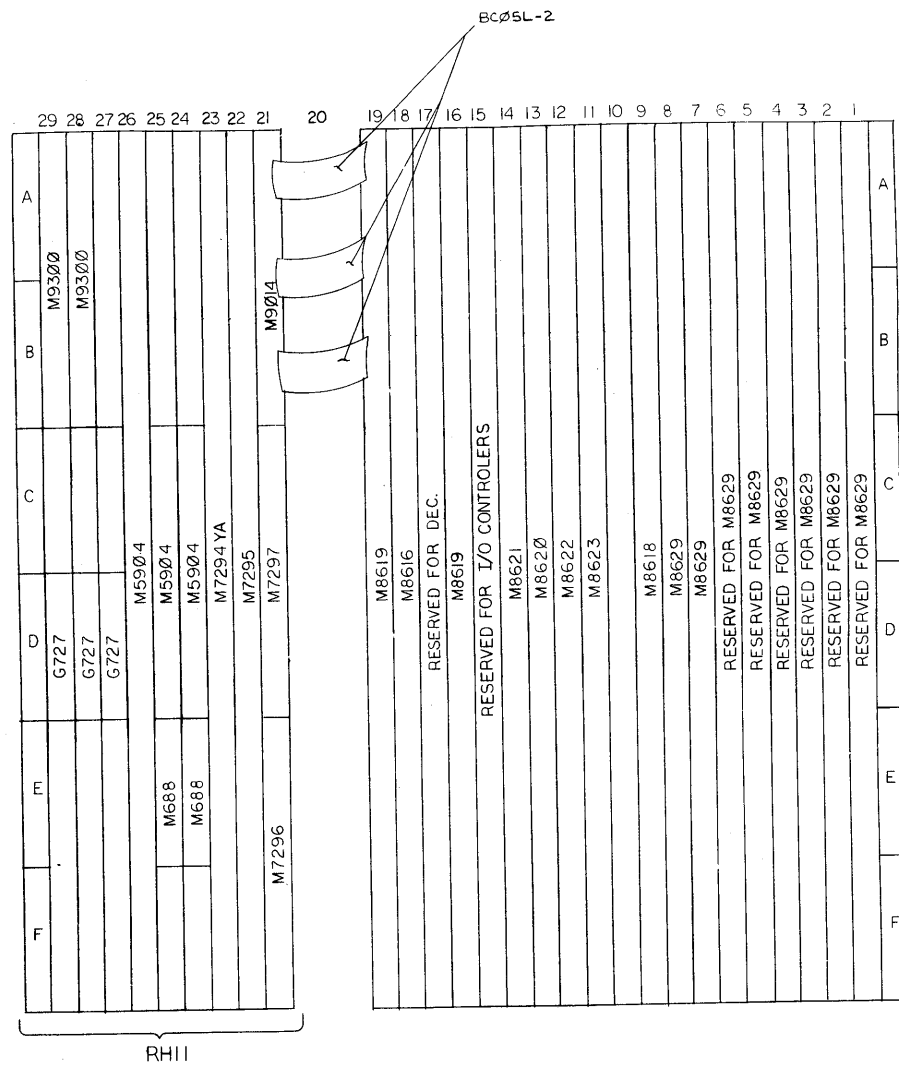
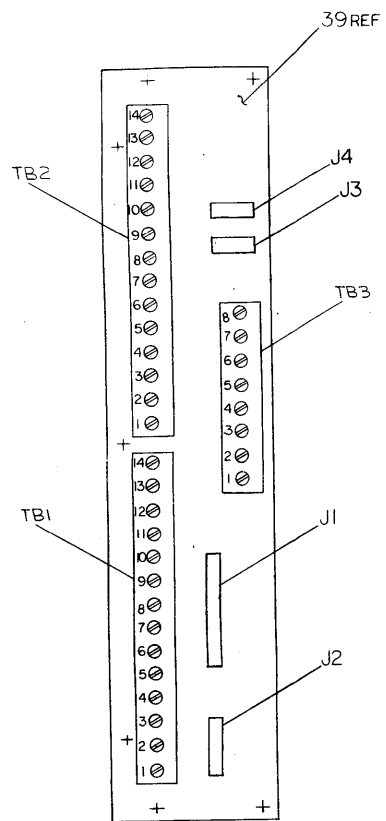
NOTES:  
 1. USE OF LPS #1 OR SIMILAR LUBRICANT ON REAR EDGE OF BLOWER (ITEM #7) WILL FACILITATE INSERTION & REMOVAL.  
 2. AFTER ASSEMBLY OF ITEM #36, DEFORM FIRST 4 THREADS OF STUD TO CAPTIVATE WING NUT.  
 3. REFER TO A-SP-KS10-PA-1 FOR BACKPLANE ALIGNMENT PROCEDURE



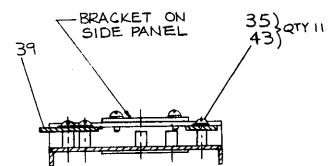
CAUTION:  
 FOR PARTS LIST SEE  
 A-PL-KS10-PA-2

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
1	1	ASSEMBLY	KS10	20	0000	1	1
TITLE: <b>CENTRAL PROCESSOR ASSY</b> SCALE: 1/2 SHEET: 1 OF 3							

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VIEWED FROM MODULE SIDE



DETAIL 'A'  
SCALE: 1/1

REV.	CHANGE NO.	DATE

TITLE	CENTRAL PROCESSOR ASSY	SIZE	3000	NUMBER	EUA KS10-PA-0	REV.	
SCALE	NONE	SHEET	2	OF	3	DIST.	1

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HARNES CONNECTION CHART			
ITEM	HARNES TERMINATION		WITH
	POINT	CONNECTOR	
38		J4	
39		J3	
41	1	T82-14	
	2	T82-13	
	3	T82-12	
	4	T82-11	
	5, 6, 7	T82-10	
	8, 9, 10	T82-9	
	11	T82-7	
	12	T82-6	
	13	T82-5	
	14	T82-4	
	15	T82-3	
	16	T82-2	
	17	T82-1	
	18	T81-14	
	19	T81-13	
	20	T81-12	
	21, 22	T81-11	
	23, 24	T81-10	
	25, 26, 27	T81-9	
	28, 29, 30	T81-8	
	31, 32	T81-7	
	33, 34	T81-6	
	35, 36, 37	T81-5	
	38, 39, 40	T81-4	
	41, 42	T81-3	
	43, 44	T81-2	
	45	T81-1	
	46	PT17	
	47	PT16	
	48	PT15	
	49	PT14	
	50	PT13	
	51	PT12	
	52	PT11	
	53	PT10	
	54	PT9	
	55	PT8	
	56	PT7	
	57	E18C2	
	58	E18C1	
	59	E17C2	
	60	E18A2	
	61	E18A1	
	62	E17A2	
	63	D18C2	
	64	PT14	
	65	PT13	
	66	C18C2	
	67	C18C1	
	68	C17C2	
	69	C18A2	
	70	C18A1	
	71	C16A2	
	72	PT8	
	73	A18C2	
	74	A18A2	
	75	A8B2	
	76	A8C2	
	77	A3B2	
	78	A3C2	
	79	A4A2	
	80	A4C2	
	81	PT1	
	82	B1T1	
	83	B1U2	

HARNES CONNECTION CHART			
ITEM	HARNES TERMINATION		WITH
	POINT	CONNECTOR	
41	84	CP3T1	
	85	CP2T1	
	86	CP1T1	
	87	PT5	
	88	DP3B1	
	89	DP2B1	
	90	DP1B1	
	91	PT7	
	92	PT6	
	93	FP3C2	
	94	FP2C2	
	95	FP1C2	
	96	GND	
	97	GND	
	98	GND	
44		P2	J2
	10	C18F1	SOLDER
	11	C18J1	SOLDER
	11A	C18U2	SOLDER
	12	D18E1	SOLDER
	13	D18F1	SOLDER
	14	D18M1	SOLDER
	15	D18S1	SOLDER
	16	D18R1	SOLDER
	17	F18S1	SOLDER
	18	F18R1	SOLDER
44		P2	J2
		P1	J1
46	93	T82-14	
	94	T82-13	
	95	T82-12	
	96	T82-11	
	97	T82-10	
	98	T82-9	
	99	T82-8	
	40	T82-7	
	41	T82-6	
	42	T82-5	
	43	T82-4	
	44	T82-3	
	45	T82-2	
	46	T82-1	
	47	T82-2	
	48	T82-1	
	49	T82-3	
	50	T82-2	
	51	T81-14	
	52	T81-13	
	53	T81-12	
	54	T81-11	
	55	T81-10	
	56	T81-9	
	57	T81-8	
	58	T81-7	
	59	T81-6	
	60	T81-5	
	61	T81-4	
	62	T81-3	
	63	T81-2	
	64	T81-1	
37	BLK	T83-1	
	RED	T83-5	
	GRN	T83-6	

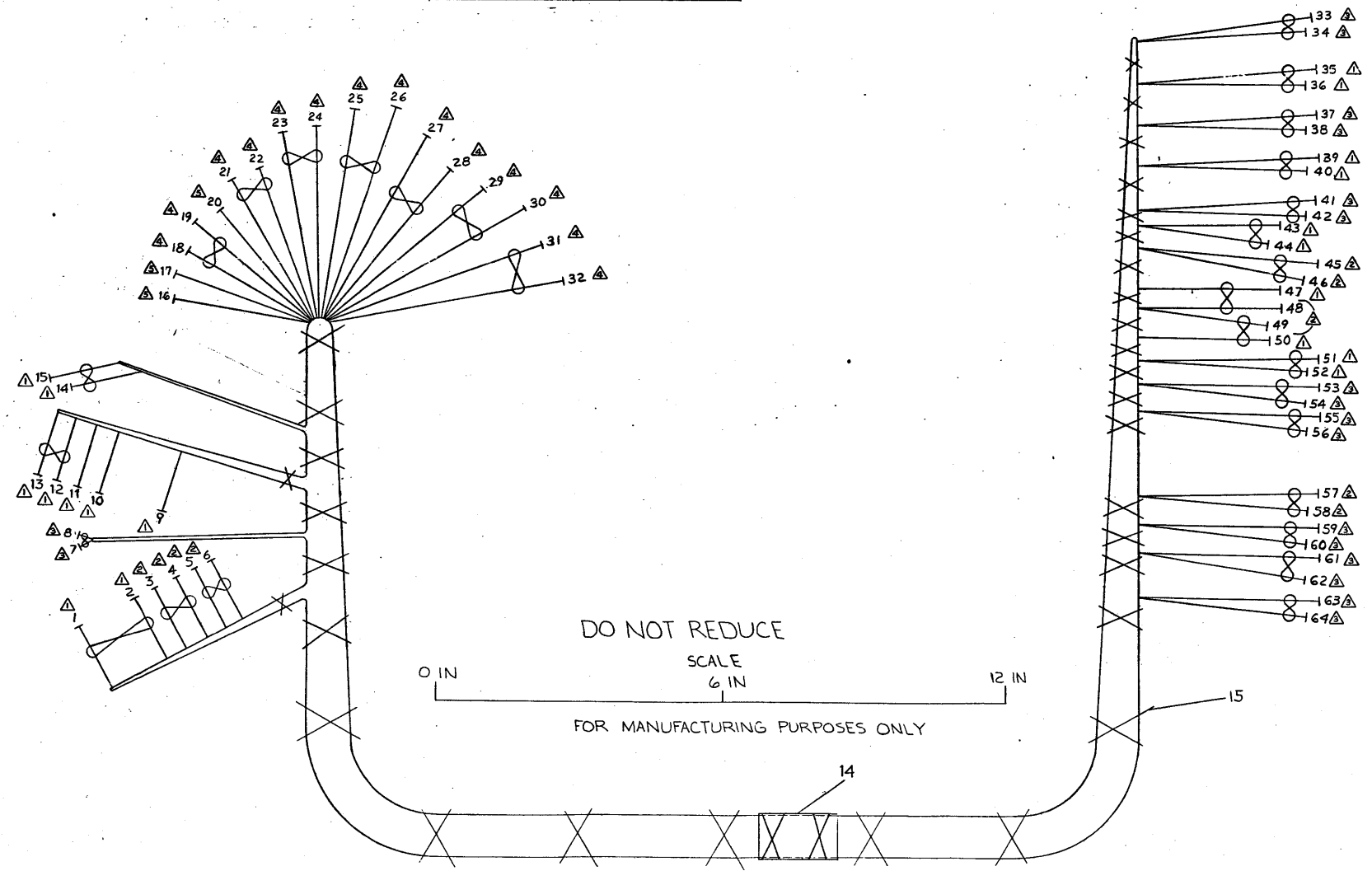
REVISIONS  
DATE CHANGE NO. BY

TITLE: CENTRAL PROCESSOR ASSY  
 NUMBER: KS10-PA-0  
 SCALE: NONE  
 SHEET: 3 OF 3  
 REV.:

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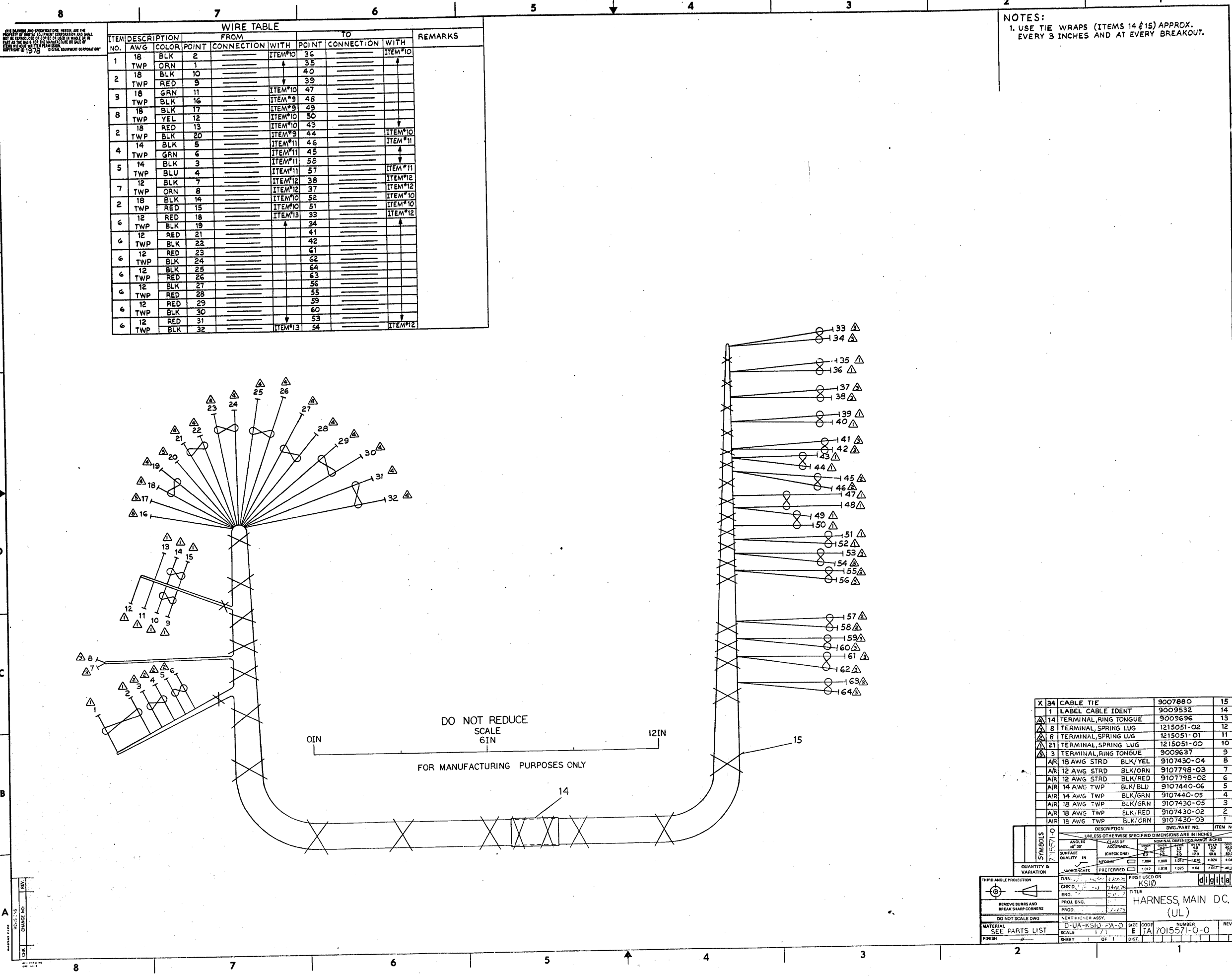
WIRE TABLE									
ITEM NO.	AWG	COLOR	POINT	FROM CONNECTION	WITH ITEM#	POINT	TO CONNECTION	WITH ITEM#	REMARKS
1	18	BLK	2			36			
	TWP	ORN	7			35			
2	18	BLK	12			40			
	TWP	RED	13			39			
3	18	WHT	11		ITEM#10	47		ITEM#10	
	TWP	BLK	16		ITEM#9	48		ITEM#11	
8	18	BLK	17		ITEM#9	49		ITEM#10	
	TWP	YEL	10		ITEM#10	50		ITEM#10	
2	18	RED	9		ITEM#10	43		ITEM#10	
	TWP	BLK	20		ITEM#9	44		ITEM#10	
4	14	BLK	5		ITEM#11	46		ITEM#11	
	TWP	GRN	6		ITEM#11	45		ITEM#11	
5	14	BLK	3		ITEM#11	58		ITEM#11	
	TWP	BLU	4		ITEM#11	57		ITEM#11	
7	12	BLK	7		ITEM#12	38		ITEM#12	
	TWP	ORN	8		ITEM#12	37		ITEM#12	
2	18	BLK	14		ITEM#10	52		ITEM#10	
	TWP	RED	15		ITEM#10	51		ITEM#10	
6	12	RED	18		ITEM#13	33		ITEM#12	
	TWP	BLK	19			34			
		RED	21			41			
6	12	RED	22			42			
		BLK	23			61			
6	12	RED	24			62			
		BLK	25			64			
6	12	RED	26			63			
		BLK	27			56			
6	12	RED	28			55			
		RED	29			59			
6	12	RED	30			60			
		BLK	31			53			
6	12	RED	32		ITEM#13	54		ITEM#12	

NOTES:  
1. USE TIE WRAPS (ITEMS 14 & 15) APPROX. EVERY 3 INCHES AND AT EVERY BREAKOUT.



QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
X 134	CABLE TIE	9007880	13
1	CABEL CABLE IDENT	9009532	14
14	TERMINAL RING TONGUE	9009696	13
18	TERMINAL SPRING LUG	1215051-02	12
9	TERMINAL SPRING LUG	1215051-01	11
19	TERMINAL SPRING LUG	1215051-00	10
3	TERMINAL RING TONGUE	9009637	9
NR 18	AWG TWP BLK/YEL	9107430-04	8
NR 12	AWG TWP BLK/ORN	9107798-03	7
NR 12	AWG TWP BLK/RED	9107798-02	6
NR 14	AWG TWP BLK/BLU	9107440-06	5
NR 14	AWG TWP BLK/GRN	9107440-05	4
NR 18	AWG TWP BLK/WHT	9107430-09	3
NR 18	AWG TWP BLK/RED	9107430-02	2
NR 18	AWG TWP BLK/ORN	9107430-03	1

THIRD ANGLE PROJECTION	DRN. <i>[Signature]</i>	FIRST USED ON <i>[Signature]</i>
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. <i>[Signature]</i>	TITLE
DO NOT SCALE DWG	PROJ. ENG. <i>[Signature]</i>	HARNES, MAIN DC. (NON UL)
MATERIAL LIST	PROD. <i>[Signature]</i>	SCALE
FINISH	NEXT HIGHER ASSY.	SIZE CODE
		NUMBER
		REV.
		SHEET
		DIST.



WIRE TABLE									
ITEM NO.	AWG	COLOR	FROM		TO		REMARKS		
			POINT	CONNECTION	POINT	CONNECTION			
1	18	BLK	2		ITEM#10	36			
	TWP	ORN	1			35			
2	18	BLK	10			40			
	TWP	RED	9			39			
3	18	GRN	11		ITEM#10	47			
	TWP	BLK	16		ITEM#9	48			
8	18	BLK	17		ITEM#9	49			
	TWP	YEL	12		ITEM#10	50			
2	18	RED	13		ITEM#10	43			
	TWP	BLK	20		ITEM#9	44	ITEM#10		
4	14	BLK	5		ITEM#11	46	ITEM#11		
	TWP	GRN	6		ITEM#11	45			
5	14	BLK	3		ITEM#11	56			
	TWP	BLU	4		ITEM#11	57	ITEM#11		
7	12	BLK	7		ITEM#12	38	ITEM#12		
	TWP	ORN	8		ITEM#12	37	ITEM#12		
2	18	BLK	14		ITEM#10	52	ITEM#10		
	TWP	RED	15		ITEM#10	51	ITEM#10		
6	12	RED	18		ITEM#13	33	ITEM#12		
	TWP	BLK	19			34			
12	RED	21				41			
6	TWP	BLK	22			42			
12	RED	23				61			
6	TWP	BLK	24			62			
12	RED	25				64			
6	TWP	RED	26			63			
12	RED	27				56			
6	TWP	RED	28			55			
12	RED	29				59			
6	TWP	BLK	30			60			
12	RED	31				53			
6	TWP	BLK	32		ITEM#13	54	ITEM#12		

NOTES:  
1. USE TIE WRAPS (ITEMS 14 & 15) APPROX. EVERY 3 INCHES AND AT EVERY BREAKOUT.

X 34	CABLE TIE	9007880	15	
1	LABEL CABLE IDENT	9009532	14	
		9009696	13	
14	TERMINAL, RING TONGUE	1215051-02	12	
8	TERMINAL, SPRING LUG	1215051-01	11	
8	TERMINAL, SPRING LUG	1215051-00	10	
21	TERMINAL, SPRING LUG	9009637	9	
3	TERMINAL, RING TONGUE	9107430-04	8	
A/R	18 AWG STRD	BLK/YEL	9107798-03	7
A/R	12 AWG STRD	BLK/ORN	9107798-02	6
A/R	14 AWG TWP	BLK/BLU	9107440-06	5
A/R	14 AWG TWP	BLK/GRN	9107440-05	4
A/R	18 AWG TWP	BLK/RED	9107430-02	2
A/R	18 AWG TWP	BLK/ORN	9107430-03	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

CLASS OF ACCURACY	15°	30°	45°	60°	75°	90°
ANGLE	±0.004	±0.008	±0.012	±0.016	±0.020	±0.024
SURFACE QUALITY	1.000	1.000	1.000	1.000	1.000	1.000
FINISH	1.000	1.000	1.000	1.000	1.000	1.000

QUANTITY & VARIATION: PREFERRED

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DESCRIPTION: HARNESS, MAIN DC. (UL)

SCALE: 1/1

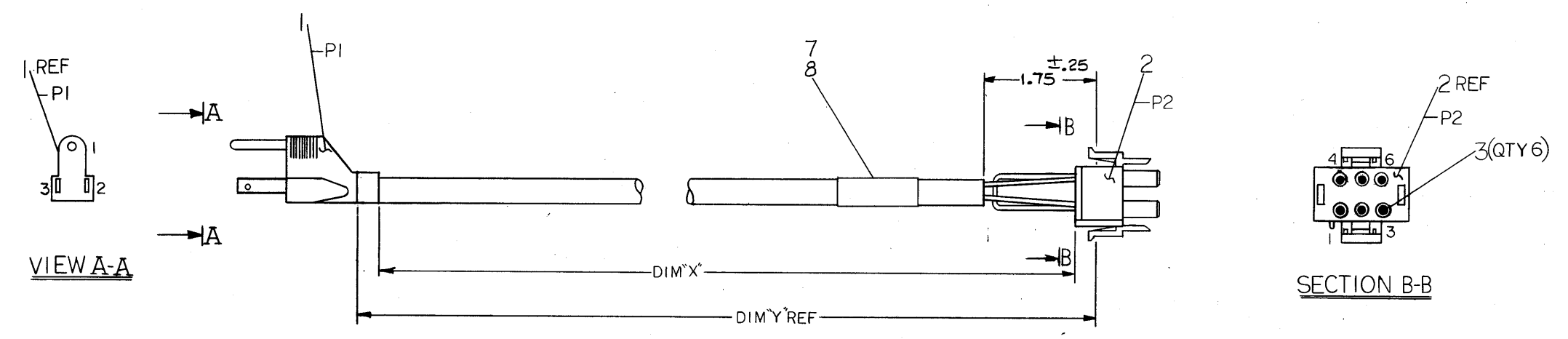
SHEET: 1 OF 1

DATE: 1/1/1

REV: 1

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WIRE TABLE							LEGEND		
ITEM NO	DESCRIPTION	FROM	TO		REMARKS	NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF	REMARKS
			CONN	WITH					
1	18 GRN/YEL	PI-1		P2-3	2&3		6FT-0IN ±.5IN	6FT-.5IN ±.5IN	
1	18 BROWN	PI-2		P2-1	2&3				
1	18 BLUE	PI-3							
4	18 BLUE	P2-4	2&3	P2-2	2&6	JUMPER 3LG			
5	18 RED	P2-5	2&3	P2-6	2&3	JUMPER 3LG			



ITEM NO	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	LABEL, CABLE IDENT.	9009532	8
2	TIE, CABLE	9007031	7
1	CONTACT, SOCKET	1212170-02	6
A/R	WIRE 18AWG RED	9107360-22	5
A/R	WIRE 18AWG BLUE	9107360-66	4
5	CONTACT, SOCKET	1212170-00	3
1	CONNECTOR UNIVERSAL	1212167-06	2
1	POWER CORD	1700043-01	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLES 40° 30'	CLASS OF ACCURACY
SURFACE QUALITY IN	NOMINAL DIMENSIONS RANGE INCHES
IN	OVER 0 TO 1.2
	1.2 TO 4.0
	4.0 TO 12.0
	12.0 TO 40.0
	40.0 TO 80.0
	80.0 TO 401
MICROINCHES	PREFERRED
	±.004 ±.008 ±.012 ±.016 ±.024 ±.04
	±.012 ±.016 ±.025 ±.04 ±.063 ±.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN: *J.P. Haler* 11 MAY 77

CHK'D: *P. Gagnier* 20 JUN 77

ENG: *P. H. Gagnier* 10 JUN 77

PROJ. ENG: *C. P. Jones* 10 JUN 77

PROD. *C. P. Jones* 10 JUN 77

NEXT HIGHER ASSY.

E-UA-11770

SCALE NONE

SHEET OF

FIRST USED ON PDPI/770

TITLE POWER CORD ASSEMBLY (FAN 115V)

SIZE CODE NUMBER REV. D TA 7014323-0-0 A

REV.	CHANGE NO.	DATE	BY	CHK'D
A	00701	20 SEPT 77	D. MARTEL	

REVISIONS

7014323-00701 A

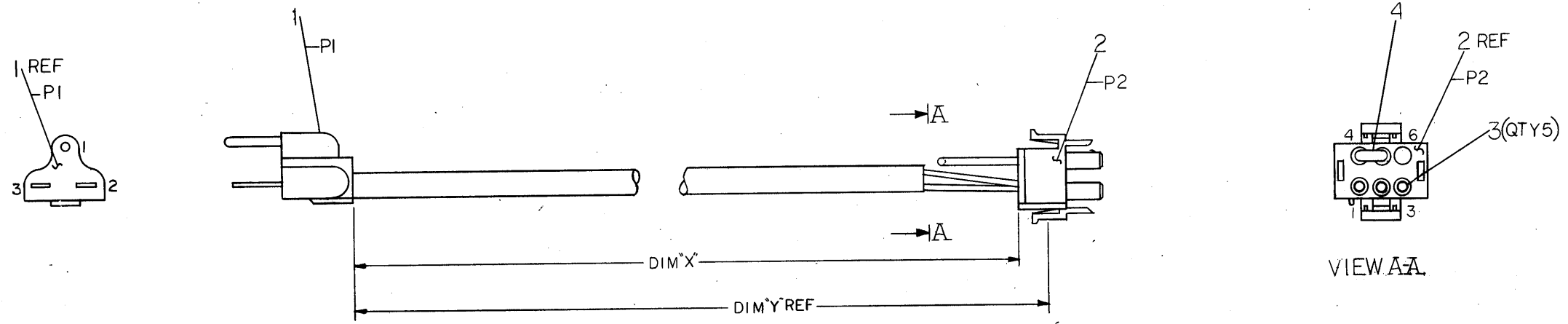
20 SEPT 77

D. MARTEL

10/17/77

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WIRE TABLE						LEGEND		
ITEM NO	DESCRIPTION	FROM	TO	REMARKS	NUMBER	DIM X VARIATION	DIM Y (PRE-CUT) REF	REMARKS
1	18 GRN/YEL	PI-1	P2-3	3	7014324-06	6 FT-0 IN ±.5 IN	6 FT-5 IN ±.5 IN	
	18 BROWN	PI-2	P2-1					
	18 BLUE	PI-3	P2-2					
4	18 RED	P2-4	P2-5	3.0 IN REF				



DESCRIPTION	DWG./PART NO.	ITEM NO.
4 WIRE 18 AWG STRD RED	9107360-22	4
5 SKT, 14-20 AWG UNIVERSAL	1212170-00	3
1 PLUG, 6 PIN HOUSING	1212167-06	2
1 POWER CORD (240V)	1700043-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLES	NOMINAL DIMENSION RANGE INCHES
30°-90°	CLASS OF ACCURACY
	(CHECK ONE)
SURFACE QUALITY	MEDIUM
QUALITY IN	PREFERRED
MICROMETRES	

THIRD ANGLE PROJECTION	DRN: <i>[Signature]</i> 11/11/77	FIRST USED ON	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK: <i>[Signature]</i> 10/27/77	PDP11/780	
DO NOT SCALE DWG	PROJ. ENG: <i>[Signature]</i> 10/27/77	TITLE	POWER CORD ASSEMBLY (FAN230V)
MATERIAL SEE PARTS LIST	PROD: <i>[Signature]</i> 10/27/77	SIZE CODE	D IA 7014324-0-0
FINISH	NEXT HIGHER ASSY.	NUMBER	7014324-0-0
		SCALE	NONE
		SHEET	OF

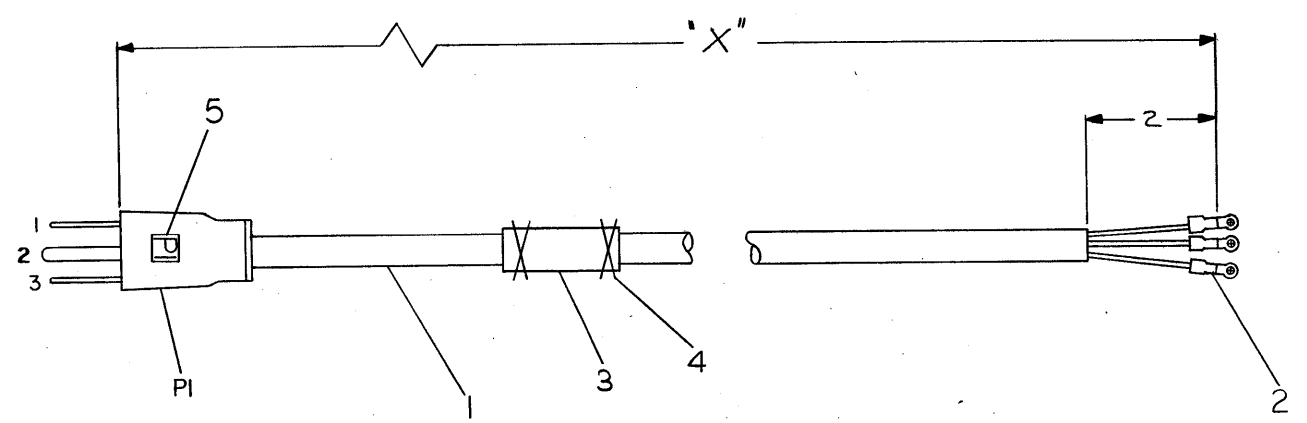
REV.	CHANGE NO.	DESCRIPTION

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WIRE TABLE						
ITEM NO.	DESCRIPTION	FROM		TO		
		AWG	COLOR	CONNECTION	WITH	CONNECTION
1	14	BLU	P1-1	---	---	2
	14	GRN/YEL	P1-2	---	---	2
	14	BRN	P1-3	---	---	2

LEGEND	
NUMBER	DIM 'X'
7015137-0-0	5 FEET

NOTES:  
1. REWORK ITEM #1 BY CUTTING RECEPTACLE (FEMALE) OFF AND STRIPPING BACK OUTER INSULATION 2 INCHES.



1	DECAL (P1)	A-DC-7409872-1-0	5
2	TIE, CABLE	9007880	4
1	LABEL, CABLE IDENT.	9009532	3
3	TERM RING INSULATED 16-14AWG	9007928	2
1	PWR. CORD 60HZ	9107673-06	1

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
30° 30'	(CHECK ONE)	OVER 0 TO 0.2
SURFACE QUALITY	MEDIUM	OVER 0.2 TO 4.0
IN	MICROMETRES	OVER 4.0 TO 12.0
		OVER 12.0 TO 40.0
		OVER 40.0 TO 80.0
		OVER 80.0 TO 100.0

THIRD ANGLE PROJECTION	DRN. P.E. Olson 26SEPT77	FIRST USED ON	KS10
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D J. Kelly 5 OCT 77	TITLE	CORD, POWER SUPPLY (60HZ)
DO NOT SCALE DWG	PROJ. ENG. A. H. Olson 13 DEC 77	PROJ. ENG. A. H. Olson 13 DEC 77	
MATERIAL SEE PARTS LIST	PROD. 4-278	SCALE	NONE
FINISH NONE		SIZE	D
		NUMBER	7015137-0-0
		SHEET	
		DIST.	

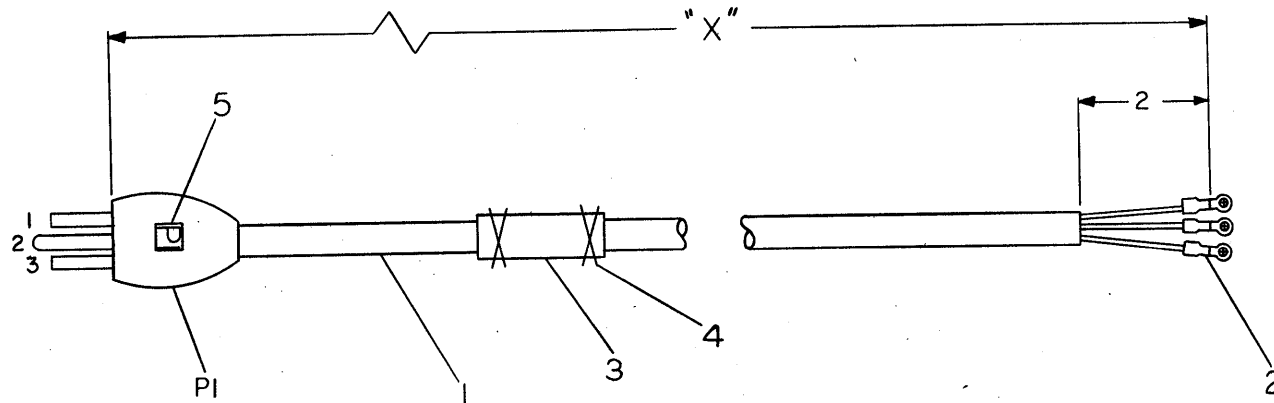
REV.	CHANGE NO.



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WIRE TABLE						
ITEM NO.	DESCRIPTION	FROM		TO		WITH
		AWG	COLOR	CONNECTION	WITH	
1	18	BLU	P1-1	---	---	2
	18	GRN/YEL	P1-2	---	---	2
	18	BRN	P1-3	---	---	2

LEGEND	
NUMBER	DIM "X"
7015325-0-0	5 FEET



1	DECAL (P1)	A-DC-7409872-1-0	5
2	TIE, CABLE	9007880	4
1	LABEL, CABLE IDENT	9009532	3
3	TERM. RING INSLTD 22-16 AWG	9007929	2
1	PWR. CORD, 50 HZ	1700016-06	1

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
±0° 30'	(CHECK ONE)	OVER 0 TO .03
SURFACE QUALITY	MEDIUM	OVER .03 TO .12
IN	PREFERRED	OVER .12 TO .40
MICROINCHES		OVER .40 TO .80
		OVER .80 TO 1.0

THIRD ANGLE PROJECTION	DRN. <i>J. Huson</i>	13-DEC-77	FIRST USED ON	KSIØ	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>J. Huson</i>	11-11-78	TITLE	CORD, POWER SUPPLY (50HZ)	
DO NOT SCALE DWG	ENG. <i>J. Huson</i>	12-10-78	PROJ. ENG. <i>J. Huson</i>	12-10-78	
MATERIAL SEE PARTS LIST	D-UA-KSIØ-Ø-Ø	SIZE CODE	D	NUMBER	7015325-0-0
FINISH NONE	SCALE NONE	SHEET	1	OF	1

REVISIONS  
CHANGE NO. REV.  
CHK

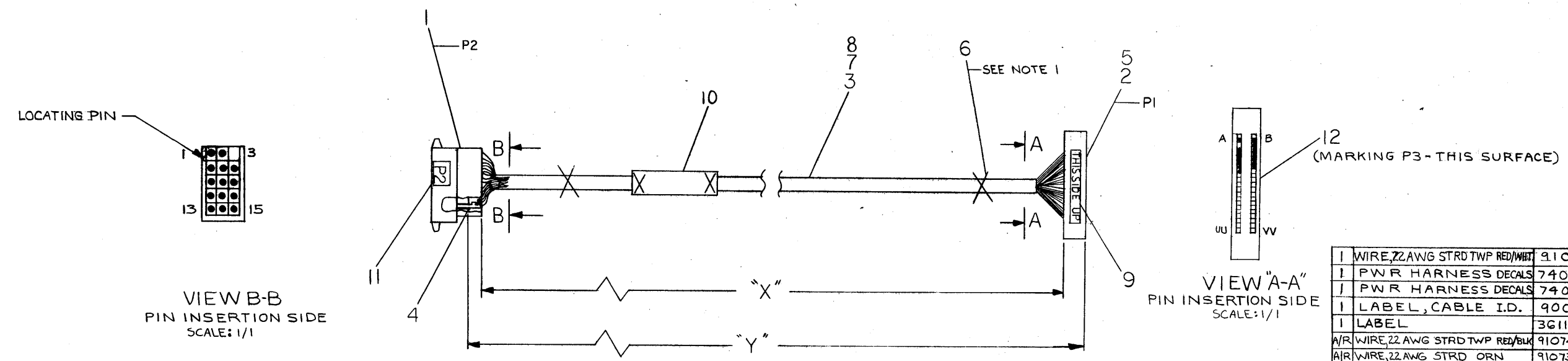
DIGITAL 7015325-0-0

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WIRE TABLE						
ITEM NO.	DESCRIPTION	FROM CONNECTION	WITH	TO CONNECTION	WITH	REMARKS
3	22 WHT	P2-13	ITEM #4	PI-P	ITEM #5	
3	↑ WHT	P2-2	↑ ITEM #4	PI-B	↑ ITEM #5	
7	↑ ORN	P2-1	↑	PI-A	↑	
3	↑ WHT	P2-4	↑	PI-D	↑	
	↑	P2-5	↑	PI-E	↑	
	↑	P2-6	↑	PI-F	↑	
	↑	P2-7	↑	PI-H	↑	
	↑	P2-8	↑	PI-J	↑	
	↑	P2-9	↑	PI-K	↑	
3	22 WHT	P2-10		PI-L		
13	22 RED	P2-11		PI-M		
	TWP WHT	P2-12		PI-N		
8	22 RED	P2-15		PI-S		
	TWP BLK	P2-14	ITEM #4	PI-R	ITEM #5	

LEGEND		
NUMBER	DIM X*	DIM Y (PRE CUT)
7015108-0-0	4 FEET 6 IN. ± 2 INCHES	4 FEET 7 INCH

NOTES:  
1. INSTALL TIE WRAPS (ITEM #6) APPROX. EVERY 4 INCHES.



VIEW B-B  
PIN INSERTION SIDE  
SCALE: 1/1

VIEW "A-A"  
PIN INSERTION SIDE  
SCALE: 1/1

DESCRIPTION	DWG./PART NO.	ITEM NO.
1 WIRE, 22 AWG STRD TWP RED/WHT	9107420-29	13
1 PWR HARNESS DECALS	7409872-1-0	12
1 PWR HARNESS DECALS	7409872-2-0	11
1 LABEL, CABLE I.D.	9009532	10
1 LABEL	3611567-0-0	9
A/R WIRE, 22 AWG STRD TWP RED/BLK	9107420-02	8
A/R WIRE, 22 AWG STRD ORN	9107350-33	7
17 TIE WRAP	9007031	6
15 SOCKET, CRIMP	1210089-04	5
15 PIN 18-24 AWG	1212169-03	4
A/R WIRE, 22 AWG STRD WHT	9107350-99	3
1 CONN HSG 44 PIN	1210918-15	2
1 CONN HSG, 15 PIN	1212168-06	1

THIRD ANGLE PROJECTION	DRN. <i>B. J. J. 22 SEP 77</i>	FIRST USED ON	KS10
	CHK'D J. Hudson 30 SEP 77	TITLE	CABLE, CONSOLE PANEL
REMOVE BURRS AND BREAK SHARP CORNERS	ENG. <i>T. D. 12 APR 78</i>	PROJECT	D-UA-KS10-PA-P
DO NOT SCALE DWG	PROD. <i>4-18-78</i>	SCALE	1/1
MATERIAL SEE PART LIST	NEXT HIGHER ASSY.	SIZE	D
FINISH NONE		CODE	IA
		NUMBER	7015108-0-0
		REV	
		SHEET	1 OF 1
		DIST.	

REV.	CHANGE NO.

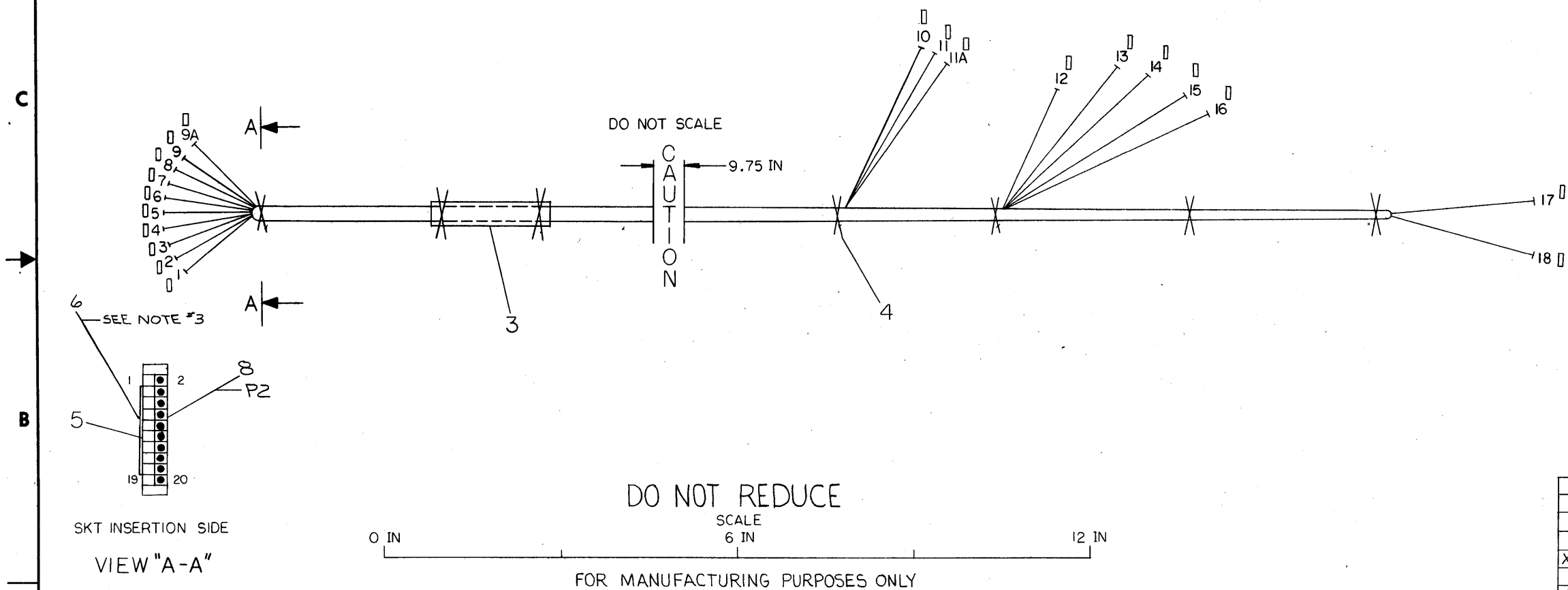
DEC FORM NO. 890 100-C

DIA 7015108-0-0

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WIRE TABLE										
ITEM NO.	DESCRIPTION			FROM			TO			REMARKS
	AWG	COLOR	POINT	CONN	WITH	POINT	CONN	WITH		
1	24	WHT	1	P2-8	ITEM 2	11		ITEM 2	7	C18J1
			2	-6		12				D18E1
			3	-10		13				D18P1
			4	-4		14				D18M1
			5	-12		15				D18S1
			6	-2		16				D18R1
			7	-18		17				F18S1
			8	-20		18				F18R1
			9	-16		10				C18F1
1	24	WHT	9A	P2-14	ITEM 2	11A		ITEM 2	7	C18U2

- NOTES:
1. LABEL TERMINATION POINTS USING BRADY MARKERS.
  2. USE TIE WRAPS (ITEM #4) APPROX. EVERY 3 INCHES & AT EVERY BREAKOUT POINT.
  3. TRIM LABEL ITEM #6 AS NECESSARY TO FIT.



QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	DECAL	A-DC-7409872-1-0	8
9	SLEEVING, SHRINK, WHT	9107714-09	7
1	LABEL, THIS SIDE UP	3611567-0	6
1	TERMINATION HOUSING	1210918-25	5
X 11	TIE WRAPS	9007031	4
1	LABEL, CABLE IDENT.	9009532	3
18	SOCKET, CRIMP	1210089-04	2
A/R	24 AWG SOLID (WHT)	9107688-99	1

SYMBOL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
	ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES			
SURFACE QUALITY IN	MEDIUM	OVER 0 TO 0.25	OVER 0.25 TO 0.50	OVER 0.50 TO 1.00	OVER 1.00 TO 2.00	OVER 2.00 TO 40.0
		±.004	±.008	±.012	±.016	±.024
QUANTITY & VARIATION	MICROINCHES	PREFERRED	±.012	±.016	±.025	±.04

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. *M. Hickey* 3 Nov 77

CHK'D *J. Huson* 9 Apr 78

ENG. *F. Goff* 12 Apr 78

PROJ. ENG. *F. Goff* 12 Apr 78

PROD. *W. H. ...* 4-18-78

FIRST USED ON: KSIØ **digital**

TITLE: HARNESS, BACKPLANE SIGNAL

NEXT HIGHER ASSY.

D-UA-KSIØ-PA-Ø

SCALE 1/1

SHEET 1 OF 1

SIZE CODE: D IA

NUMBER: 7015269-0-0

DIST.

REVISIONS

REV.	CHANGE NO.

MANUFACTURE P-1555

DEC FORM NO. 080 100-C

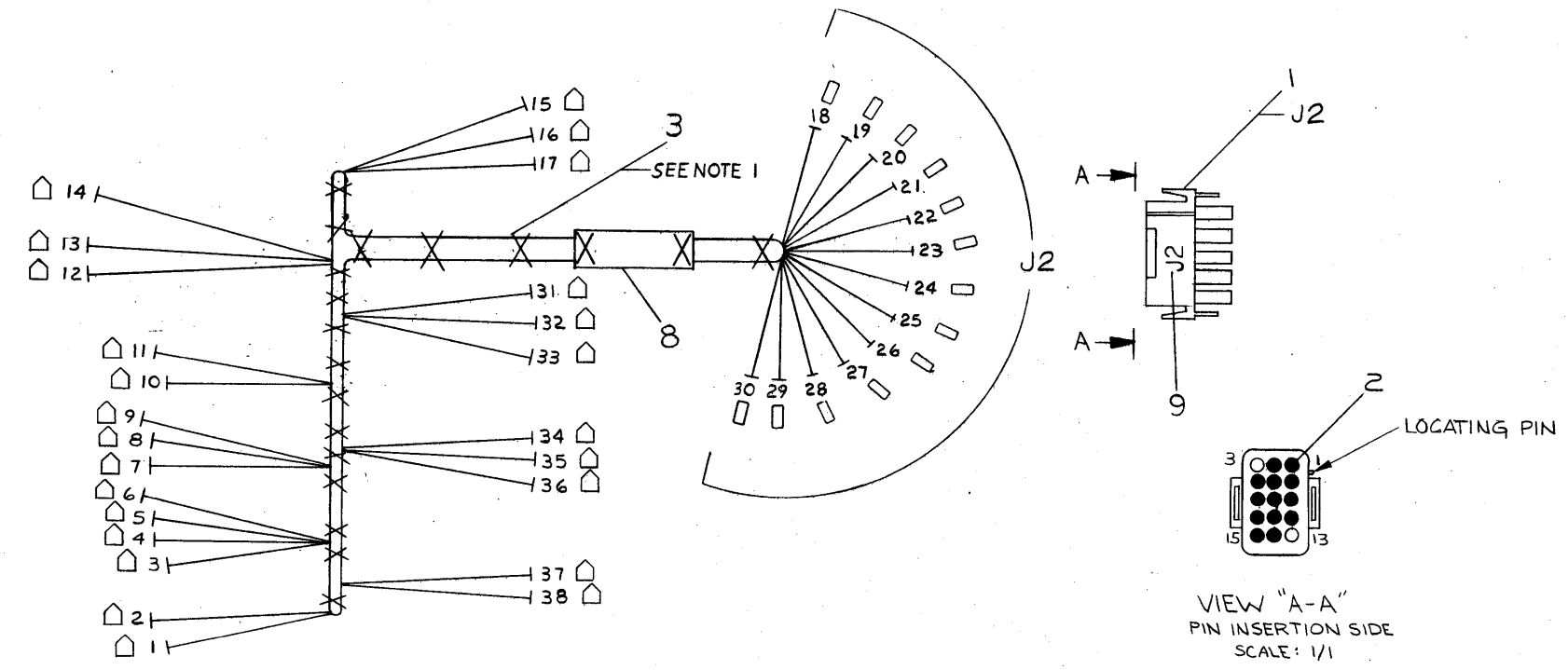
DIA 7015269-0-0

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WIRE TABLE								
ITEM NO	DESCRIPTION	FROM			TO			WITH
		AWG	COLOR	POINT	CONNECTION	POINT	CONNECTION	
4	22	BLK	5		SOLDER	31		SOLDER
4		BLK	4			18	J2-14	ITEM #2
7		WHT	6			19	J2-5	ITEM #2
7		WHT	3			7		SOLDER
7		WHT	9			20	J2-4	ITEM #2
7		WHT	8			1		SOLDER
7		WHT	11			21	J2-10	ITEM #2
5		RED	10			22	J2-11	ITEM #2
6		ORN	33			23	J2-1	ITEM #2
7		WHT	15			24	J2-2	ITEM #2
5		RED	16			25	J2-15	ITEM #2
5		RED	17		SOLDER	36		SOLDER
7		WHT	26	J2-6	ITEM #2	2		SOLDER
7		WHT	27	J2-8	ITEM #2	34		SOLDER
7		WHT	28	J2-9	ITEM #2	37		SOLDER
5	22	RED	35		SOLDER	38		SOLDER

ITEM NO	DESCRIPTION	FROM			TO		
		AWG	COLOR	POINT	CONNECTION	POINT	CONNECTION
4	22	BLK	32		SOLDER	14	
7	22	WHT	29	J2-7	ITEM 2	13	
7	22	WHT	30	J2-12	ITEM 2	12	

NOTES:  
 1. USE TIE WRAPS (ITEM # 3) APPROX. EVERY 1/2 INCH WHEN NECESSARY & AT EVERY BREAKOUT POINT.  
 2. ALL POINT CALLOUTS TO BE LABELED WITH COMPONENT IDENTIFIERS USING BRADY MARKERS.



DO NOT REDUCE  
 6 IN  
 12 IN  
 FOR MANUFACTURING PURPOSES ONLY

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	POWER HARNESS DECALS	7409872-2-0	9
1	LABEL, CABLE I.D.	9009532-0	8
AIR	22 AWG STRANDED WHT	9107350-99	7
AIR	22 AWG STRANDED ORN	9107350-33	6
AIR	22 AWG STRANDED RED	9107350-22	5
AIR	22 AWG STRANDED BLK	9107350-00	4
X	19 CABLE TIES	9007032	3
□	13 SOCKET	1212170-03	2
□	1 HOUSING, PLUG	1212167-05	1

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 40° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN MICROINCHES	MEDIUM <input type="checkbox"/> PREFERRED <input checked="" type="checkbox"/>	OVER 0 TO 0.2	OVER 0.2 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
		±.004 ±.008 ±.012 ±.016 ±.024 ±.04	±.012 ±.016 ±.025 ±.04 ±.063 ±.1
THIRD ANGLE PROJECTION	DRN: <i>M. Russell</i> 200777	FIRST USED ON	<b>digital</b>
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D: <i>J. DeP...</i> 12/28/77	TITLE	HARNESS, SWITCH PANEL
DO NOT SCALE DWG	PROJ. ENG. <i>J. DeP...</i> 12/28/77	SIZE	D IA 7014482-0-0
MATERIAL SEE PARTS LIST	PROD. <i>M. Russell</i> 7-18-78	SCALE	1/1
FINISH NONE	NEXT HIGHER ASSY.	SHEET	1 OF 1
		DIST.	

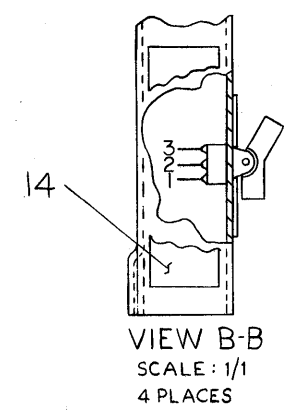
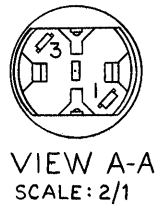
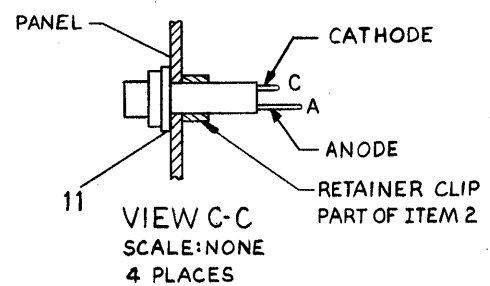
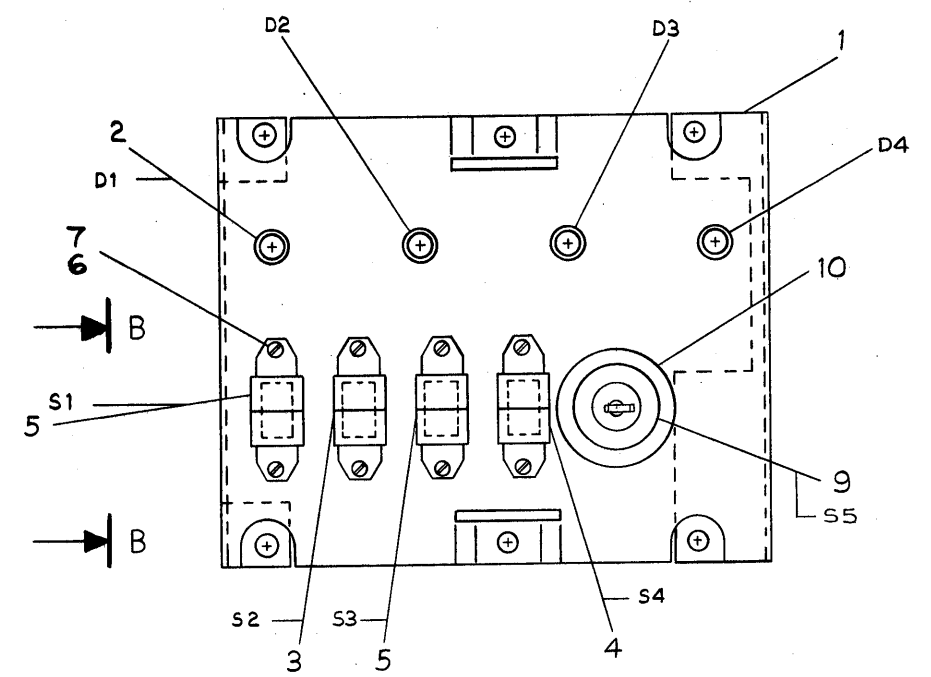
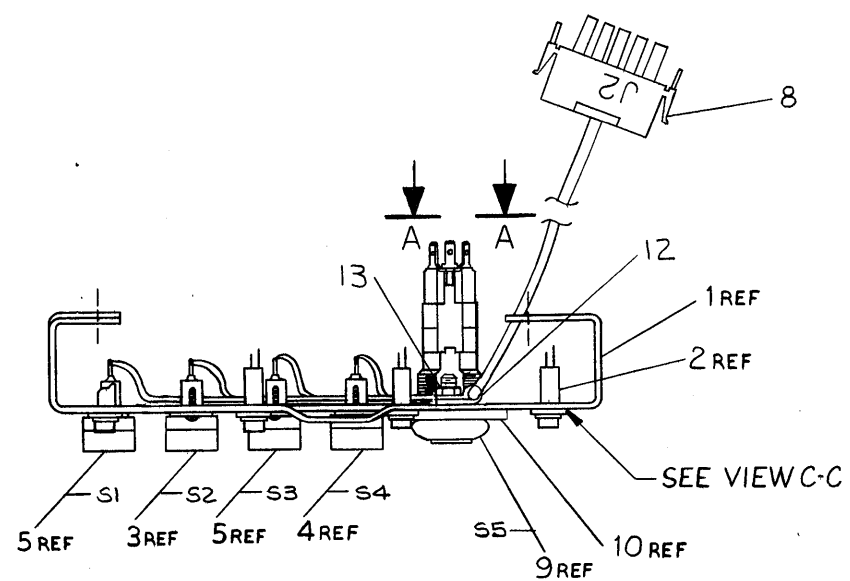
REVISIONS  
 CHANGE NO.  
 CHK

REV. 1  
 D IA 7015159-0-0

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REV. 2  
 D IA 7014482-0-0  
 NUMBER

WIRE TABLE							
ITEM NO.	DESCRIPTION	AWG	COLOR	POINT	CONNECTION	WITH	
8		18	BLK	5	S2-2	SOLDER	
			BLK	4	S2-2		
			WHT	6	S2-1		
			WHT	3	S2-3		
			WHT	9	S3-1		
			WHT	8	S3-2		
			WHT	7	S3-2		
			WHT	11	S4-1		
			RED	10	S4-2		
			ORN	33	D3-A		
			BLK	31	D3-C		
			BLK	32	D3-C		
			RED	16	D4-A		
			RED	17	D4-A		
			RED	35	D2-A		
			RED	36	D2-A		
			WHT	34	D2-C		
			RED	38	D1-A		
			WHT	37	D1-C		
			WHT	2	S1-1		
			WHT	1	S1-2		
			WHT	15	D4-C		
			BLK	14	S5-C		
			WHT	12	S5-3		
			18	WHT	13	S5-1	SOLDER



DESCRIPTION	DWG. PART NO.	ITEM NO.
INSPECTION LABEL	9009255-0-0	14
NUT, HEX #10-32	9009005-0-0	13
CABLE CLAMP	9007081-0-0	12
WASHER, FIBER	9008082-0-0	11
WASHER, FLAT	9010010-0-0	10
SWITCH, KEYLOCK, SP3T	1213881-0-0	9
HARNESS, SWITCH PANEL	D-IA-7015159-0-0	8
WASHER, INT TOOTH LOCK #4	9006632	7
SCR, RD HD SLOT 4-40X.25	9006397-5	6
SW, TOG SPDT (WHT) M.O.M.	1210890-01	5
SW, TOG SPDT (RED)	1210891-01	4
SW, TOG SPDT (WHT)	1210891-02	3
LIGHT L.E.D. (RED LENS)	1212749-0-0	2
SWITCH PANEL BRACKET	D-MD-7419501-0-0	1

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
ANGLE	CLASS OF ACCURACY	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
±0° 30'	(CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
SURFACE QUALITY	MEDIUM	OVER 0 TO .125	OVER .125 TO .250	OVER .250 TO .500	OVER .500 TO 1.000	OVER 1.000 TO 40.0	OVER 40.0 TO 80.0
IN	±.004	±.008	±.012	±.016	±.025	±.04	±.04
MICRONCHES	PREFERRED	±.012	±.016	±.025	±.04	±.063	±.1

THIRD ANGLE PROJECTION	DRN. <i>A. D. ...</i> 28 NOV 77	FIRST USED ON	KSIØ
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>J. ...</i> 11/17/78	TITLE	SWITCH PANEL BRACKET ASSY
DO NOT SCALE DWG	PROJ. ENG. <i>J. ...</i> 12/28/78	SIZE	D IA 7014482-0-0
MATERIAL SEE PARTS LIST	PROD. <i>...</i> 4-8-78	NUMBER	7014482-0-0
FINISH NONE	NEXT HIGHER ASSY.	SCALE	1/1
		SHEET	1 OF 2
		DIST.	

REVISIONS  
 CHANGE NO.  
 CHK

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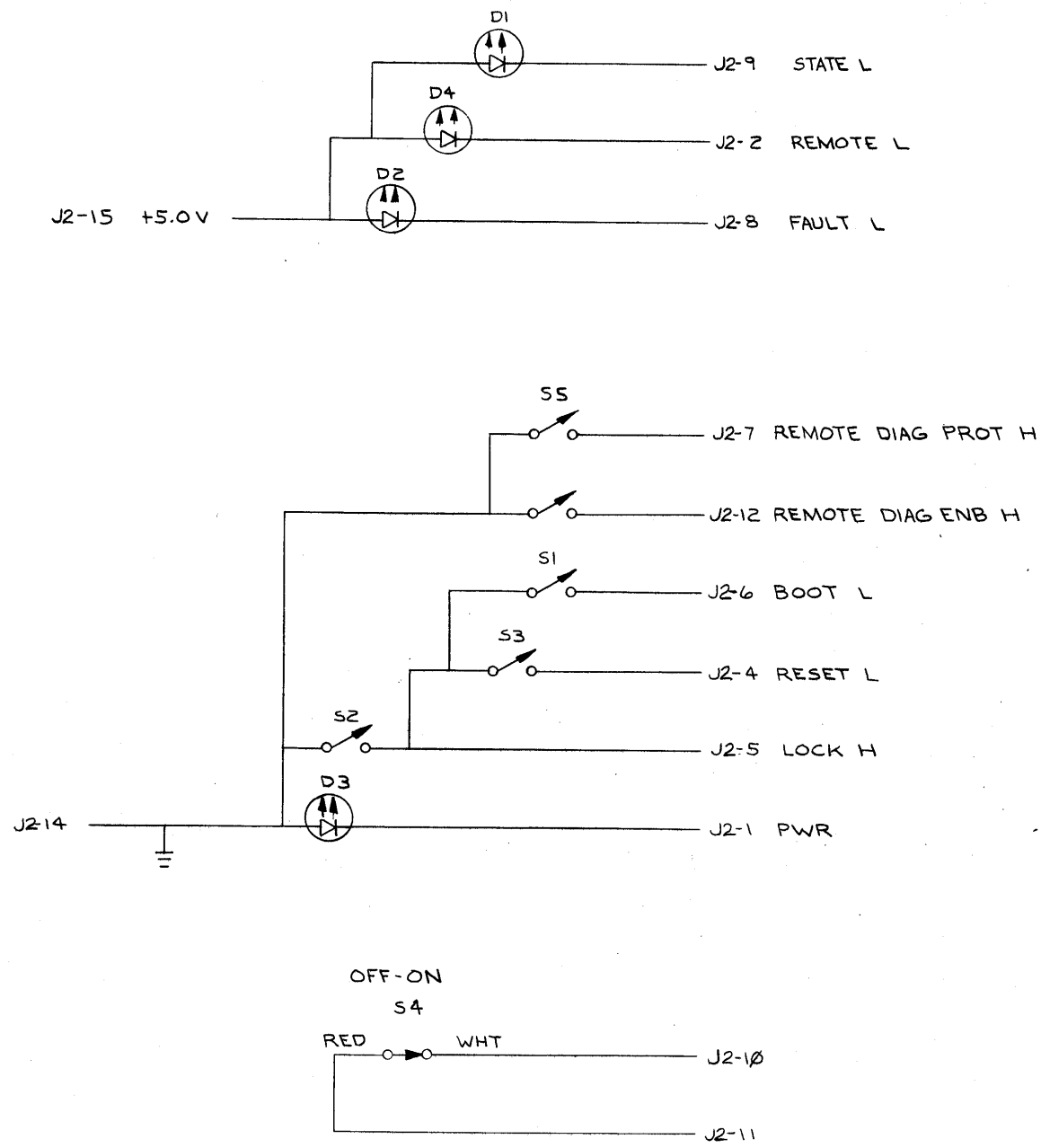
REV. 2  
DIA 7014482-0-0

KEY SWITCH CONN. TABLE

SS POSITIONS	PROTECT H	ENABLE H
DISABLE	OFF	ON
PROTECT	OFF	OFF
ENABLE	ON	OFF

D  
C  
B  
A

D  
C  
B  
A



REVISIONS		
CHK	CHANGE NO.	REV.

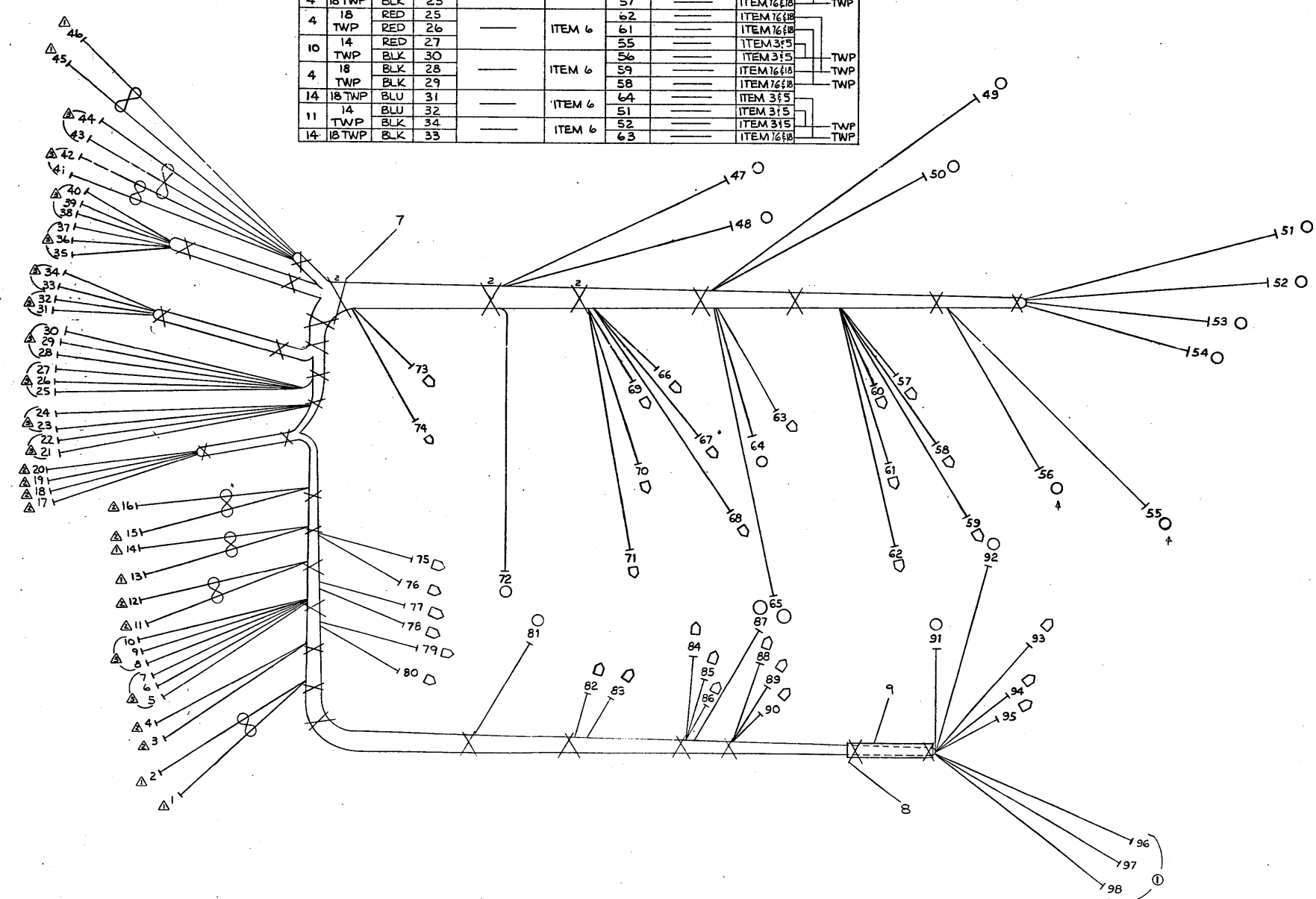
TITLE SWITCH PANEL BRACKET ASSY  
 SCALE 1/1 SHEET 2 OF 2  
 SIZE CODE D IA NUMBER 7014482-0-0  
 DIST. REV.

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WIRE TABLE										
ITEM NO	DESCRIPTION	AWG	COLOR	FROM			TO			REMARKS
				POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
10	14 TWP	RED	1		ITEM 2	31		ITEM 3 & 5		
	18 TWP	BLK	2		ITEM 2	32		ITEM 3 & 5		
12	18 TWP	ORN	3		ITEM 1	53		ITEM 16 & 18		
		BLK	4		ITEM 1	52				
		ORN	5			58				
		ORN	6		ITEM 6	59				
		CRN	7			90				
12	18 TWP	BLK	8			24				
		BLK	9		ITEM 6	55				
		BLK	10			56				
4	18 TWP	RED	11		ITEM 1	60				
		RED	12		ITEM 1	70		ITEM 16 & 18		
10	14 TWP	RED	13		ITEM 2	81		ITEM 3 & 5		
		BLK	14		ITEM 2	87		ITEM 3 & 5		
13	18 TWP	GRN	15		ITEM 1	77		ITEM 16 & 18		
		BLK	16			78				
		GRN	17			75				
13	18 TWP	BLK	18			76				
		RED	19			74				
4	18 TWP	BLK	20		ITEM 1	73		ITEM 16 & 18		
4	18 TWP	RED	21			60		ITEM 16 & 18		
10	14 TWP	RED	22		ITEM 6	72		ITEM 3 & 5		
4	18 TWP	BLK	24		ITEM 6	65		ITEM 3 & 5		
4	18 TWP	BLK	23			57		ITEM 16 & 18		
4	18 TWP	RED	25			62		ITEM 16 & 18		
4	18 TWP	RED	26		ITEM 6	61		ITEM 16 & 18		
10	14 TWP	RED	27			55		ITEM 3 & 5		
4	18 TWP	BLK	30			56		ITEM 3 & 5		
4	18 TWP	BLK	28		ITEM 6	59		ITEM 16 & 18		
		BLK	29			58		ITEM 16 & 18		
14	18 TWP	BLU	31		ITEM 6	64		ITEM 3 & 5		
11	14 TWP	BLK	32			51		ITEM 3 & 5		
11	18 TWP	BLK	34			52		ITEM 3 & 5		
14	18 TWP	BLK	33		ITEM 6	63		ITEM 16 & 18		

WIRE TABLE CONT.										
ITEM NO	DESCRIPTION	AWG	COLOR	FROM			TO			REMARKS
				POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
4	18 TWP	RED	36			69		ITEM 16 & 18		
		RED	37			70		ITEM 16 & 18		
10	14 TWP	RED	35		ITEM 6	47		ITEM 3 & 5		
		BLK	38			50		ITEM 3 & 5		
4	18 TWP	BLK	39		ITEM 6	66		ITEM 16 & 18		
		BLK	40			67		ITEM 16 & 18		
4	18 TWP	RED	41		ITEM 6	71		ITEM 16 & 18		
10	14 TWP	RED	42			53		ITEM 3 & 5		
		BLK	43		ITEM 6	54		ITEM 3 & 5		
4	18 TWP	BLK	44		ITEM 6	68		ITEM 16 & 18		
10	14 TWP	RED	45		ITEM 2	48		ITEM 3 & 5		
		BLK	46		ITEM 2	49		ITEM 3 & 5		
15	18 GRN/YEL	93			ITEM 16 & 18	96				
15	18 GRN/YEL	94			ITEM 16 & 18	97				
15	18 GRN/YEL	95			ITEM 16 & 18	98				

NOTES:  
 1. USE TIE WRAPS (ITEM 7 AND 8), APPROX EVERY 2 INCHES AND AT EVERY BREAKOUT POINT.  
 2. ALL POINT CALLOUTS TO BE LABELED WITH COMPONENT IDENTIFIERS USING BRADY MARKERS.



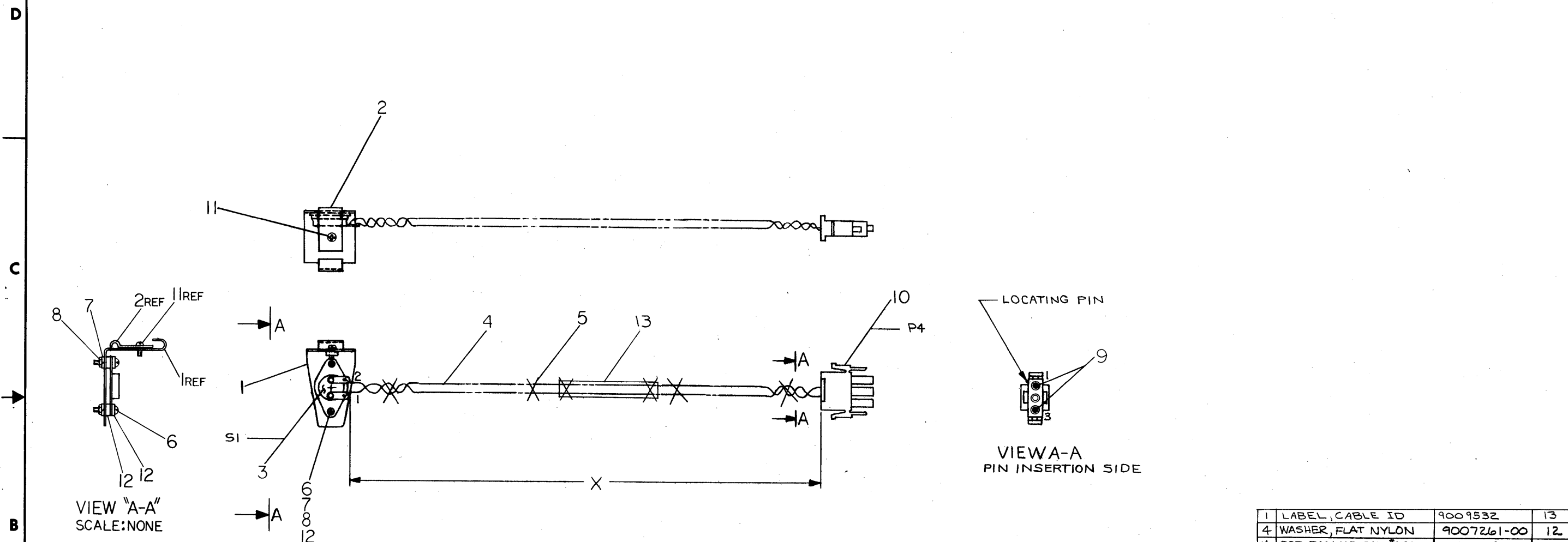
QTY	DESCRIPTION	AWG	PART NO.	ITEM NO.
1	TERMINAL, RING (YEL)		9007926-01	17
1	TERMINAL, BERG		9009139-00	16
1	18 AWG STRD GRN/YEL		9107410-54	15
1	18 AWG TWP BLK/BLU		9107430-06	14
1	18 AWG TWP BLK/GRN		9107430-05	13
1	18 AWG TWP BLK/ORN		9107430-03	12
1	14 AWG TWP BLK/BLU		9107440-06	11
1	14 AWG TWP BLK/RED		9107440-02	10
1	LABEL, CABLE ID		9009532	9
2	CABLE TIE		9007031	8
3	CABLE TIE		9007032	7
1	TERMINAL SPRING LUG (YEL)		1215051-02	6
1	TUBING, SHRINK, RED		9107305-02	5
1	18 AWG TWP BLK/RED		9107430-02	4
1	TERMINAL, QUICK CONN		9009262-00	3
1	TERMINAL, SPRING LUG (BLU)		1215051-01	2
1	TERMINAL, SPRING LUG (RED)		1215051-00	1

THIRD ANGLE PROJECTION	DRN: <i>[Signature]</i>	FIRST USED ON	KSIØ digital
REMOVE BURRS AND BREAK SHARP CORNERS	PROJ. ENG. <i>[Signature]</i>	TITLE	HARNES, CARD CAGE POWER
DO NOT SCALE DWG	PROD. <i>[Signature]</i>	SCALE	1/1
MATERIAL SEE PARTS LIST	E-VA-K.S.10-PA	SIZE	E 1A
FINISH NONE	SHEET 1 OF 1	NUMBER	7015317-0-0
		REV	

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VARIATION	WIRE TABLE							DIM. "X"	
	ITEM NO.	AWG	COLOR	FROM CONNECTION	WITH CONNECTION	TO CONNECTION	WITH CONNECTION		REMARKS
7015067-0	4	22 TWP	WHT RED	P4-1 P4-3	ITEM 9 ITEM 9	S1-1 S1-2	SOLDER SOLDER	— —	13.0 ±.5 IN.

REV. 0-0-7015067-0-0 2



VIEW "A-A"  
SCALE: NONE

VIEW A-A  
PIN INSERTION SIDE

ITEM NO.	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	LABEL, CABLE ID	9009532	13
4	WASHER, FLAT NYLON	9007261-00	12
1	SCR PAN HD PHL #6-32X.31	9009701-00	11
1	CONN, HOUSING 3 PIN	1212167-00	10
2	PIN SOCKETS 22AWG	1212170-03	9
2	NUT HEX #2-56	9006555	8
2	WASHER, HELICAL SPLIT LOCK	9006686	7
2	SCR PHL HD PAN #2-56X.44	9006004-01	6
6	TIE WRAPS SST 1M	9007031	5
4	WIRE #22AWG STRD WHT/RED TWP	9107420-29	4
1	THERMOSTAT, SNAP ACTING	1210902-03	3
1	BRACKET HOLD DOWN	C-MD-7419814-00	2
1	SENSOR BRACKET	C-MD-7419815-00	1

ANGLES		CLASS OF ACCURACY		NOMINAL DIMENSION RANGE INCHES					
30°	30°	0	1.2	0	0.2	1.2	4.0	12.0	40.0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TO	TO	TO	TO	TO	TO
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0.2	1.2	4.0	12.0	40.0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0.2	1.2	4.0	12.0	40.0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0.2	1.2	4.0	12.0	40.0

THIRD ANGLE PROJECTION	DRN. B. C. C. C. C. 135ETT	FIRST USED ON	KSI
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D J. H. H. 12/20/77	TITLE	SENSOR ASSY, HEAT
DO NOT SCALE DWG	PROJ. ENG. J. H. H. 12/20/77	MATERIAL	E-UA-KSI0-PA-0
MATERIAL SEE PARTS LIST	PROD. J. H. H. 12/20/77	SCALE	NONE
FINISH NONE	NEXT HIGHER ASSY.	SIZE	D
		CODE	AD
		NUMBER	7015067-0-0
		REV.	

REV.	CHANGE NO.	DATE

DEC FORM NO. DRD 100-C

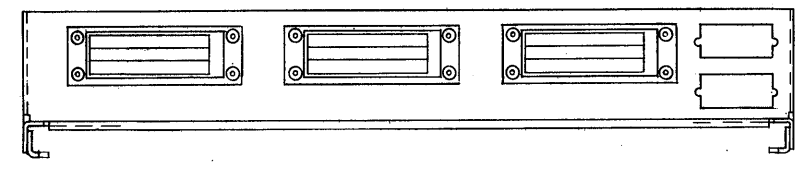
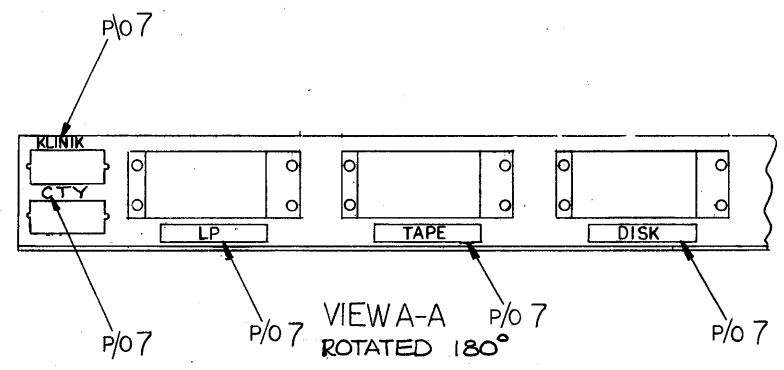
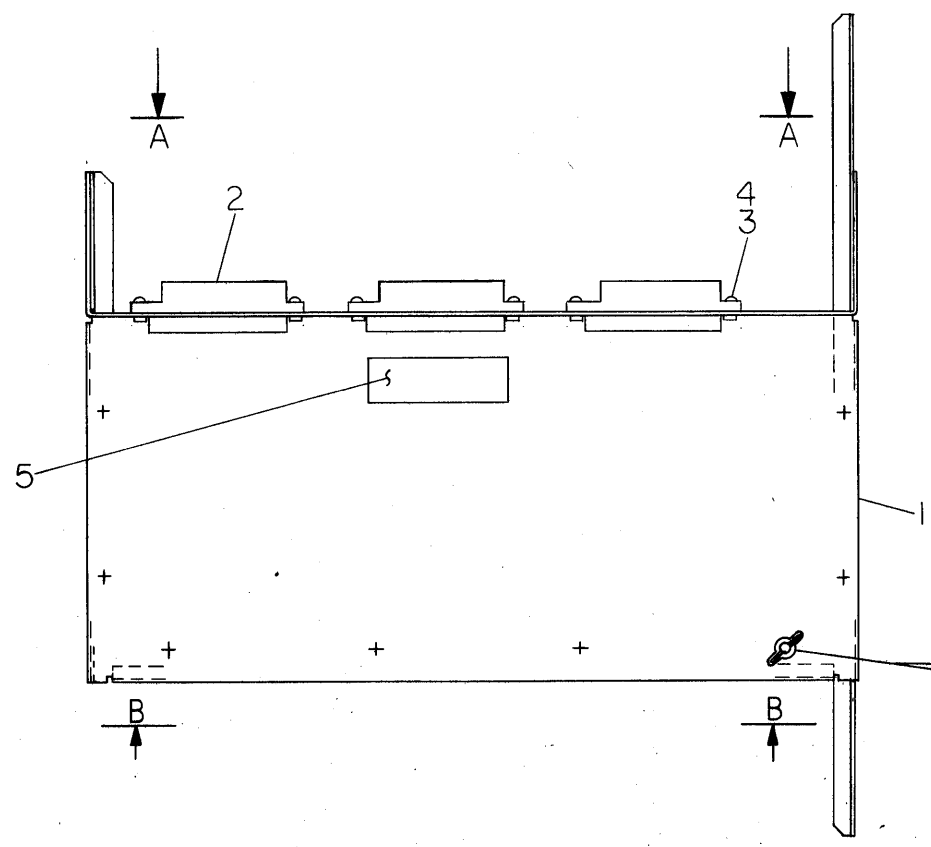
DRAWING NUMBER 7015067-0



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REV. NUMBER 0-0-0  
 SIZE CODE D  
 DWG. NO. 7014462-0-0

NOTES:  
 1. INSTALL ITEM #6 AND CAPTIVATE BY DEFORMING LAST 4 THREADS OF STUD.



VIEW B-B

ITEM NO.	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	LABEL, ADH. BACK KS 1Ø	3615379-0-0	7
8	NUT, WING 10-32	9006572	6
1	LABEL, INSPECTION	9009255	5
12	WASHER, SPLIT LOCK # 4.	9006688	4
12	SCREW, FIL. HD. SLOT #4-40X.38	9006390-06	3
3	RECEPTACLE, HOUSING	D-AD-7009861-0-0	2
1	TROUGH, MASSBUS CABLE	D-IA 7014478-0-0	1

ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES				
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0
SURFACE QUALITY IN	(CHECK ONE)	±.004	±.008	±.012	±.016	±.024
	MEDIUM	±.004	±.008	±.012	±.016	±.024
QUANTITY & VARIATION	MICROINCHES	±.012	±.016	±.025	±.04	±.063

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG.

MATERIAL: SEE PARTS LIST

FINISH: + / +

DRW. M. Howard  
 CHK'D J. Husoy  
 ENG. F. DeL...  
 PROD. ...

FIRST USED ON: KS1Ø

TITLE: ASSY, MASSBUS CABLE TROUGH

NEXT HIGHER ASSY.

E-UA-KS1Ø-Ø-Ø

SCALE: 1/2

SHEET 1 OF 1

SIZE CODE: D

NUMBER: 7014462-0-0

REV.:

REV.	CHANGE NO.

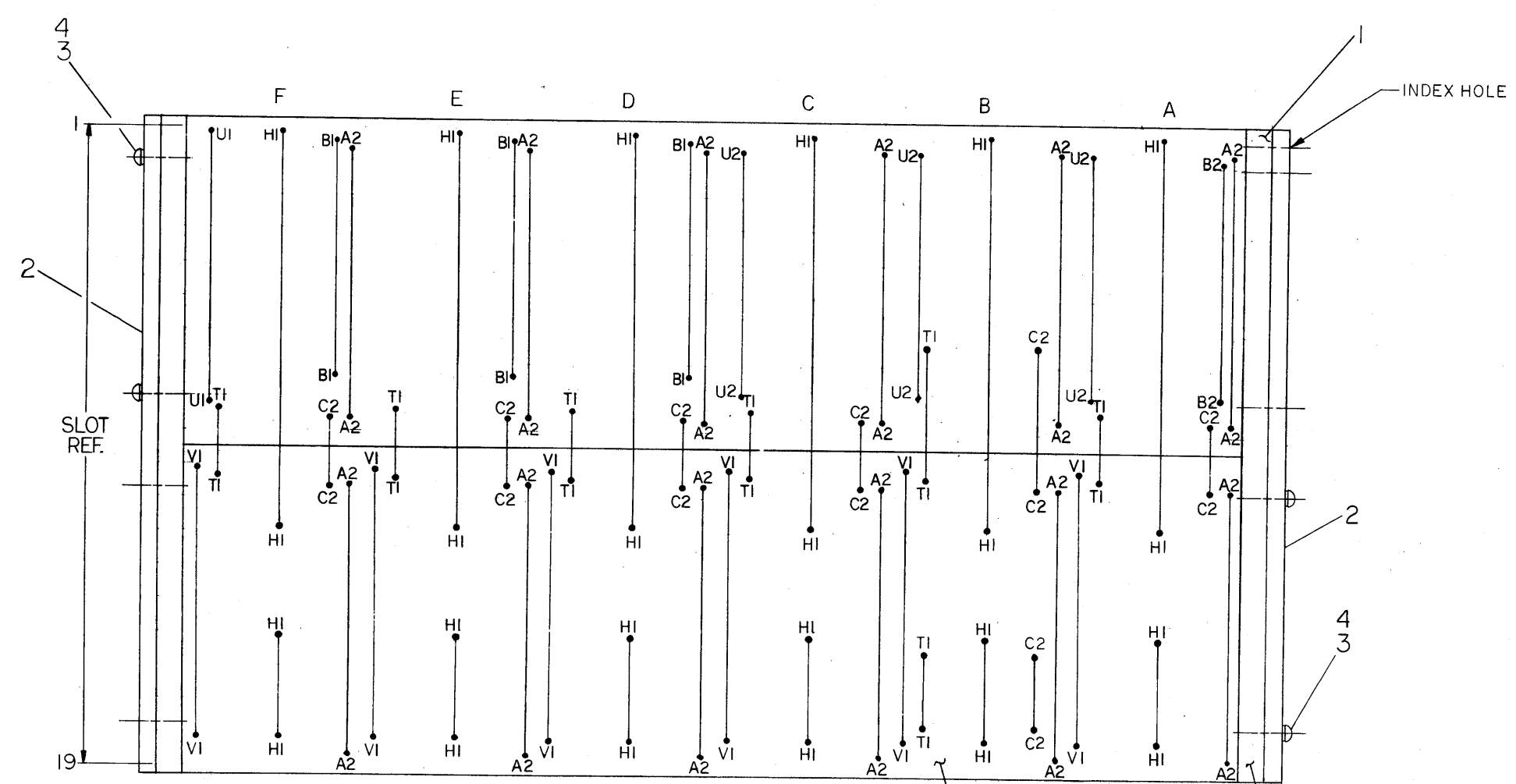
DEC FORM NO. 380 100-C

REV. NUMBER  
 D-AD 7014462-0-0

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REV. 0-0-9847101A D 2 1

- NOTES:
1. AT SLOT 9 CUT ETCH AT ACLO & DCLO. AT SLOTS 3 & 13 CUT ETCH AT AU2 & AV2.
  2. HOLLOW DRILL ALL PINS NI, PI, RI, AND SI IN SLOTS A9 AND A19, AND PIN A18A2.
  3. FOR HAND WIRING SEE A-WL-7014486-0-2.
  4. ALL BUS STRIPS TO BE WITHIN .125 OF ETCH BOARD. SEE A-WL-7014486-0-3 FOR BUS STRIP LISTING.
  5. FOR CLOCK COAX WIRING SEE A-WL-7014486-0-1 SEE DETAIL A ON SHEET 3.



1	DECAL, LOGIC ASSY REV	A-DC-7411881-00	15
REF	GENERAL WIRING SHEET	A-W-L-7014486-0-3	14
REF	GENERAL WIRING SHEET	A-W-L-7014486-0-2	13
A/R	CLOCK COAX	1700059	12
A/R	WIRE, 24 AWG SOLID (BLU)	9107688-0-6	11
A/R	WIRE, 24 AWG SOLID (GRN)	9107688-0-5	10
A/R	WIRE, 24 AWG SOLID (RED)	9107688-0-2	9
A/R	WIRE, 24 AWG SOLID (BLK)	9107688-0-0	8
REF	GENERAL WIRING SHEET	A-WL-7014486-0-1	7
A/R	BUS STRIP	900842B	6
A/R	WIRE, 24 AWG SOLID (WHT)	9107688-99	5
8	WASHERS, EXT. TOOTH # 8	9008072	4
8	SCR, FIL HD PHL # 8-32 X 50	9007641-06	3
2	BAR, BACKPLANE SUPPORT	B-MD-7419351-00	2
2	ASSY, BACKPLANE	D-IA-7015682-0-0	1

DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN	(CHECK ONE)	OVER 0 TO 1.2	OVER 1.2 TO 4.0
MICROINCHES	PREFERRED	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0
		OVER 40.0 TO 80.0	OVER 80.0 TO 100.0

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

QUANTITY & VARIATION

DRN. J. HUSON 8 Apr 77

CHK'D J. HUSON 8 Apr 78

ENG. F. DAVIS 23 Apr 78

PROJ. ENG. T. DAVIS 23 Apr 78

PROD. W. BERRY 21 Apr 78

NEXT HIGHER ASSY.

ERIA-KS7-PA-2

SCALE 1/1

SHEET 1 OF 2

FIRST USED ON

KS10 digital

TITLE

ASSY, BACKPLANE

SIZE D

CODE IA

NUMBER 7014486-0-0

REV.

DIST.

REVISIONS	REV.
CHANGE NO.	
CHK	

DEC FORM NO. DRG 100-C

8 7 6 5 4 3 2 1

F E D C B A

INDEX HOLE

SLOT REF.

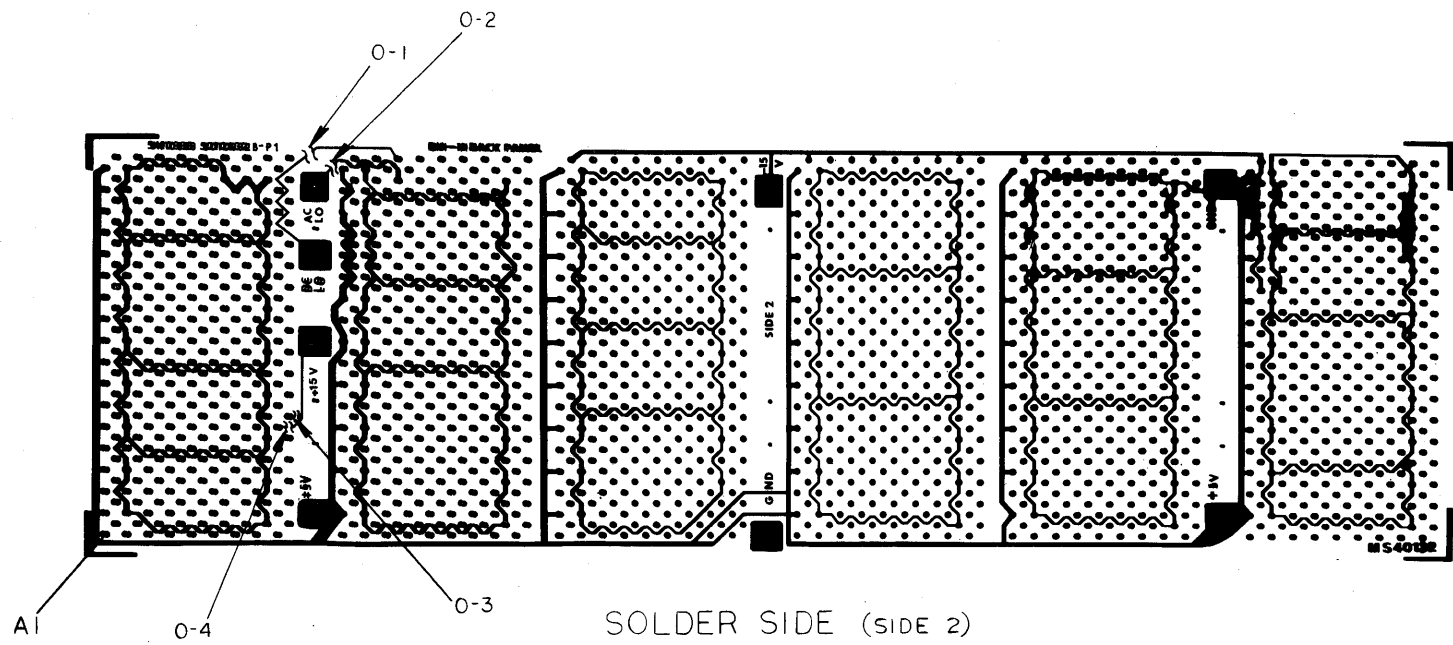
SEE NOTE 4

15

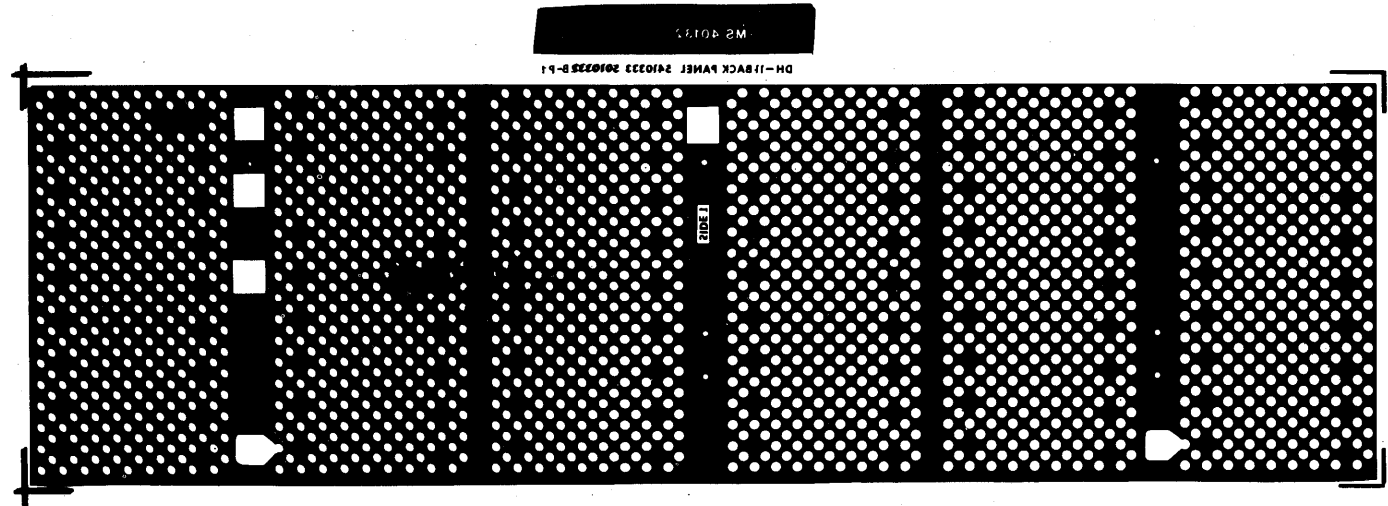
8 7 6 5 4 3 2 1

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SIZE CODE NUMBER REV. 2 1  
DIA 7014486-0-0



ETCH CUT SIDE 2 (AS SHOWN)  
0-1. CUT ETCH ON RUN FROM DC LO.  
0-2. CUT ETCH AT AC LO  
0-3&4. CUT ETCH ON RUN FROM +15V



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE ASSY, BACKPLANE  
SCALE NONE SHEET 2 OF 2  
SIZE CODE NUMBER REV. DIA 7014486-0-0

8 7 6 5 4 3 2 1

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
CSL1 R CLK CSL H	A18C1	A17C2		SOURCE
	C18S1	C18T1		TERMINATION
CSL1 R CLK ADPT3 H	A18D1	A17C2		SOURCE
	C15S1	C15T1		TERMINATION
CSL1 R CLK MMC H	A18F1	A18E2		SOURCE
	C09S1	C09T1		TERMINATION
CSL1 R CLK DPM H	A18F2	A18E2		SOURCE
	C14U1	C14T1		TERMINATION
CSL1 R CLK ADPT2 H	B18C1	B17C2		SOURCE
	C16S1	C16T1		TERMINATION
CSL1 R CLK ADPT1 H	B18D1	B17C2		SOURCE
	C17S1	C17T1		TERMINATION
CSL1 R CLK ADPT0 H	B18E1	B17C2		SOURCE
	C19S1	C19T1		TERMINATION
CSL1 T CLK ADPT1 H	A18H2	A18H1		SOURCE
	D17D1	D17C2		TERMINATION
-CSL1 T CLK MMC H	A18J1	A18H1		SOURCE
	D09D1	D09C2		TERMINATION
-CSL1 T CLK CSL H	A18J2	A18L1		SOURCE
	D18D1	D18C2		TERMINATION
-CSL1 T CLK ADPT2 H	A18L2	A18L1		SOURCE
	D16D1	D16C2		TERMINATION
-CSL1 T CLK ADPT0 H	A18M1	A18P2		SOURCE
	D19D1	D19C2		TERMINATION
-CSL1 T CLK DPE H	B18H2	B18H1		SOURCE
	C13T2	C13T1		TERMINATION

REVISIONS				DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
REV.	DATE	CHG. NO.	APP'D.	K. WALSH	10-01-77					
				CHK'D. J. HUSON	DATE 24 APR 78	TITLE GENERAL WIRING SHEET FOR KS10 CLOCK COAX				
				ENG. F. DOLL	DATE 25 APR 78					
				PROJ. ENG. T. DUNDON	DATE 4/25/78					
				PROD. W. EMERY	DATE 25 APR 78					
				FIRST USED ON						
				KS10	SIZE	CODE	NUMBER	REV.		
				SCALE NONE	A	WL	7014486-0-1			
				SHEET 1 OF 2	DIST.					


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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
-CSL1 T CLK ADPT3 H	A18K2	A18L1		SOURCE
	D15D1	D15C2		TERMINATION
-CSL1 T CLK CRA H	B18J1	B18H1		SOURCE
	C12T2	C12T1		TERMINATION
-CSL1 T CLK CRM H	B18K1	B18H1		SOURCE
	C11T2	C11T1		TERMINATION
-CSL1 T CLK DPM H	B18L1	B19H1		SOURCE
	C14T2	C14T1		TERMINATION
CSL4 CRA R CLK H	C12D1	C12C2		SOURCE
	C18E1	C18C1		TERMINATION

REVISIONS				DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
REV.	DATE	CHG. NO.	APP'D.	K. WALSH	10-01-77					
				CHK'D. J. HUSON	DATE 24 APR 78	TITLE GENERAL WIRING SHEET FOR KS10 CLOCK COAX				
				ENG. F. DOLL	DATE 25 APR 78					
				PROJ. ENG. T. DUNDON	DATE 4/25/78					
				PROD. W. EMERY	DATE 25 APR 78					
				FIRST USED ON						
				KS10	SIZE	CODE	NUMBER	REV.		
				SCALE NONE	A	WL	7014486-0-1			
				SHEET 2 OF 2	DIST.					

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
GND	A02C2	A02H1	BLACK	
↑	A07C2	A07H1	↑	
	A03H1	A03T1		
	A06H1	A06T1		
	A15C2	A15H1		
	A18C2	A18H1		
	A17H1	A17T1		
	B02C2	B02H1		
	B07C2	B07H1		
	B03H1	B03T1		
	B06H1	B06T1		
	B15C2	B15H1		
	B18C2	B18H1		
	B17H1	B17T1		
	C02C2	C02H1		
	C07C2	C07H1		
	C03H1	C03T1		
	C06H1	C06T1		
	C15C2	C15H1		
	C18C2	C18H1		
	C17H1	C17T1		
	D02C2	D02H1		
	D07C2	D07H1		
	D03H1	D03T1		
	D06H1	D06T1	↓	
GND	D15C2	D15H1	BLACK	

REVISIONS				DRN. J. HUSON	DATE 13OCT77	 MAYNARD, MASSACHUSETTS	<b>digital</b> EQUIPMENT CORPORATION TITLE <b>GENERAL WIRING SHEET</b> FOR KS10 POWER WIRING		
REV.	DATE	CHG. NO.	APP'D.	CHK'D. J. HUSON	DATE 24APR78				
				ENG. F. Doll	DATE 25APR78				
				PROJ. ENG. T. Dunderon	DATE 4/25/78				
				PROD. W. Embury	DATE 25APR78				
				FIRST USED ON KS10		SIZE	CODE	NUMBER	REV.
				SCALE NONE		A	WL	7014486-0-2	
				SHEET 1 OF 4		DIST.			

MR

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
GND	D18C2	D18H1	BLACK	
↑	D17H1	D17T1	↑	
	E02C2	E02H1		
	E07C2	E07H1		
	E03H1	E03T1		
	E06H1	E06T1		
	E15C2	E15H1		
	E18C2	E18H1		
	E17H1	E17T1		
	F02C2	F02H1		
	F07C2	F07H1		
	F03H1	F03T1		
	F06H1	F06T1		
	F15C2	F15H1		
↓	F18C2	F18H1	↓	
GND	F17H1	F17T1	BLACK	
+12V	A02U2	B02U2	WHITE	
↑	A06U2	B06U2	↑	
	B03U2	C03U2		
	B07U2	C07U2		
	C02U2	D02B1		
	C06U2	D06B1		
	D03B1	E03B1		
	D07B1	E07B1		
	E02B1	F02B1		
+12V	E06B1	F06B1	WHITE	

REVISIONS				DRN. J. HUSON	DATE 13OCT77	 MAYNARD, MASSACHUSETTS	<b>digital</b> EQUIPMENT CORPORATION TITLE <b>GENERAL WIRING SHEET</b> FOR KS10 POWER WIRING		
REV.	DATE	CHG. NO.	APP'D.	CHK'D. J. HUSON	DATE 24APR78				
				ENG. F. Doll	DATE 25APR78				
				PROJ. ENG. T. Dunderon	DATE 4/25/78				
				PROD. W. Embury	DATE 25APR78				
				FIRST USED ON KS10		SIZE	CODE	NUMBER	REV.
				SCALE NONE		A	WL	7014486-0-2	
				SHEET 2 OF 4		DIST.			

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+12V	A08U2	A18B1	WHITE	
	A11A2	A11V1	RED	
	A19A2	A19V1		
	A12V1	B12A2		
	A17V1	B17A2		
	B11A2	B11V1		
	B18A2	B18V1		
	B12V1	C12A2		
	B17V1	C17A2		
	C11A2	C11V1		
	C18A2	C18V1		
	C12V1	D12A2		
	C17V1	D17A2		
	D11A2	D11V1		
	D18A2	D18V1		
	D12V1	E12A2		
	D17V1	E17A2		
	E11A2	E11V1		
	E18A2	E18V1		
	E12V1	F12A2		
	E17V1	F17A2		
	F11A2	F11V1		
	F18A2	F18V1		
	A02A2	A02V1		
	A08A2	A08V1		
+5V	A03V1	B03A2	RED	

REVISIONS				DRN. HUSON	DATE 13 OCT 77	 MAYNARD, MASSACHUSETTS	TITLE <b>GENERAL WIRING SHEET</b> FOR KS10 POWER WIRING	SIZE CODE NUMBER REV. A WL 7014486-0-2	SHEET 3 OF 4
REV.	DATE	CHG. NO.	APP'D.	CHK'D. J. HUSON	DATE 24 APR 78				
				ENG. F. Dall	DATE 25 APR 78				
				PROJ. ENG. T. Davidson	DATE 4/25/78				
				PROD. W. Embrey	DATE 25 APR 78				

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+5V	A07V1	B07A2	RED	
	B02A2	B02V1		
	B08A2	B08V1		
	B03V1	C03A2		
	B07V1	C07A2		
	C02A2	C02V1		
	C08A2	C08V1		
	C03V1	D03A2		
	C07V1	D07A2		
	D02A2	D02V1		
	D08A2	D08V1		
	D03V1	E03A2		
	D07V1	E07A2		
	E02A2	E02V1		
	E08A2	E08V1		
	E03V1	F03A2		
	E07V1	F07A2		
	F02A2	F02V1		
	A18A2	A18K1		
	A18A2	A09A2		
+5V	F08A2	F08V1	RED	
-5V	A03B2	F03U1	GREEN	
-5V	A06B2	F06U1	GREEN	
-15V	A18B2	C19B2	BLUE	
-15V	F18U1	F19B2	BLUE	

REVISIONS				DRN. HUSON	DATE 13 OCT 77	 MAYNARD, MASSACHUSETTS	TITLE <b>GENERAL WIRING SHEET</b> FOR KS10 POWER WIRING	SIZE CODE NUMBER REV. A WL 7014486-0-2	SHEET 4 OF 4
REV.	DATE	CHG. NO.	APP'D.	CHK'D. J. HUSON	DATE 24 APR 78				
				ENG. F. Dall	DATE 25 APR 78				
				PROJ. ENG. T. Davidson	DATE 4/25/78				
				PROD. W. Embrey	DATE 25 APR 78				

MR


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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
GND	A01H1	A12H1		12 SLOT
	B01H1	B12H1		
	C01H1	C12H1		
	D01H1	D12H1		
	E01H1	E12H1		
	F01H1	F12H1		12 SLOT
	A09C2	A11C2		3 SLOT
	B06C2	B11C2		6 SLOT
	B16C2	B18C2		3 SLOT
	C09C2	C11C2		
	D09C2	D11C2		
	E09C2	E11C2		
	F09C2	F11C2		3 SLOT
	A15H1	A19H1		5 SLOT
	B15H1	B19H1		
	C15H1	C19H1		
	D15H1	D19H1		
	E15H1	E19H1		
	F15H1	F19H1		5 SLOT
	B06T1	B11T1		6 SLOT
	B16T1	B18T1		3 SLOT
	C09T1	C11T1		
	D09T1	D11T1		
	E09T1	E11T1		
	F09T1	F11T1		
GND	A09T1	A11T1		3 SLOT

REVISIONS				DRN.	DATE	 <b>digital</b> EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>	TITLE		
REV.	DATE	CHG. NO.	APP'D.	CHK'D.	DATE		GENERAL WIRING SHEET		
				J. Huson	24 APR 78		FOR KS10		
				ENG.	DATE		BUS STRIPS		
				PROJ. ENG.	DATE				
				PROD.	DATE				
				FIRST USED ON		SIZE	CODE	NUMBER	REV.
				KS10		A	WL	7014486-0-3	
				SCALE	NONE				
				SHEET	1	OF	3	DIST.	


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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+5V	A01A2	A09A2		9 SLOT
	B01A2	B09A2		
	C01A2	C09A2		
	D01A2	D09A2		
	E01A2	E09A2		
	F01A2	F09A2		
	A11A2	A17A2		
	B11A2	B19A2		
	C11A2	C19A2		
	D11A2	D19A2		
	E11A2	E19A2		
	F11A2	F19A2		
	A11V1	A19V1		
	B11V1	B19V1		
	C11V1	C19V1		
	D11V1	D19V1		
	E11V1	E19V1		
	F11V1	F19V1		
	A01V1	A09V1		
	B01V1	B09V1		
	C01V1	C09V1		
	D01V1	D09V1		
	E01V1	E09V1		
+5V	F01V1	F09V1		9 SLOT
+12V	D01B1	D08B1		8 SLOT
+12V	E01B1	E08B1		8 SLOT

REVISIONS				DRN.	DATE	 <b>digital</b> EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>	TITLE		
REV.	DATE	CHG. NO.	APP'D.	CHK'D.	DATE		GENERAL WIRING SHEET		
				J. Huson	24 APR 78		FOR KS10		
				ENG.	DATE		BUS STRIPS		
				PROJ. ENG.	DATE				
				PROD.	DATE				
				FIRST USED ON		SIZE	CODE	NUMBER	REV.
				KS10		A	WL	7014486-0-3	
				SCALE	NONE				
				SHEET	2	OF	3	DIST.	

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+12V	F01B1	F08B1		8 SLOT
+12V	A01U2	A08U2		8 SLOT
+12V	B01U2	B08U2		8 SLOT
+12V	C01U2	C08U2		8 SLOT
-5V	A01B2	A08B2		8 SLOT
-5V	F01U1	F08U1		8 SLOT

REVISIONS				DRN. J. HUSON	DATE 13 OCT 77	 <b>digital EQUIPMENT CORPORATION</b> <small>MAYNARD, MASSACHUSETTS</small>
REV.	DATE	CHG. NO.	APP'D.	CHK'D. <i>J. Huson</i>	DATE 24 <i>Apr</i> 78	
				ENG. <i>F. Doll</i>	DATE 25 <i>Apr</i> 78	<b>GENERAL WIRING SHEET</b> FOR KS10 BUS STRIPS
				PROJ. ENG. <i>T. Dunderdon</i>	DATE 4/25/78	
				PROD. <i>W. Parker</i>	DATE 25 <i>Apr</i> 78	
				FIRST USED ON KS10	SIZE CODE A WL	NUMBER 7014486-0-3
				SCALE NONE		REV.
				SHEET 3 OF 3	DIST.	

MR

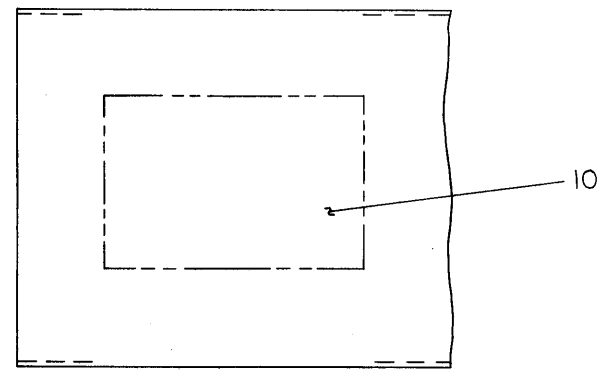


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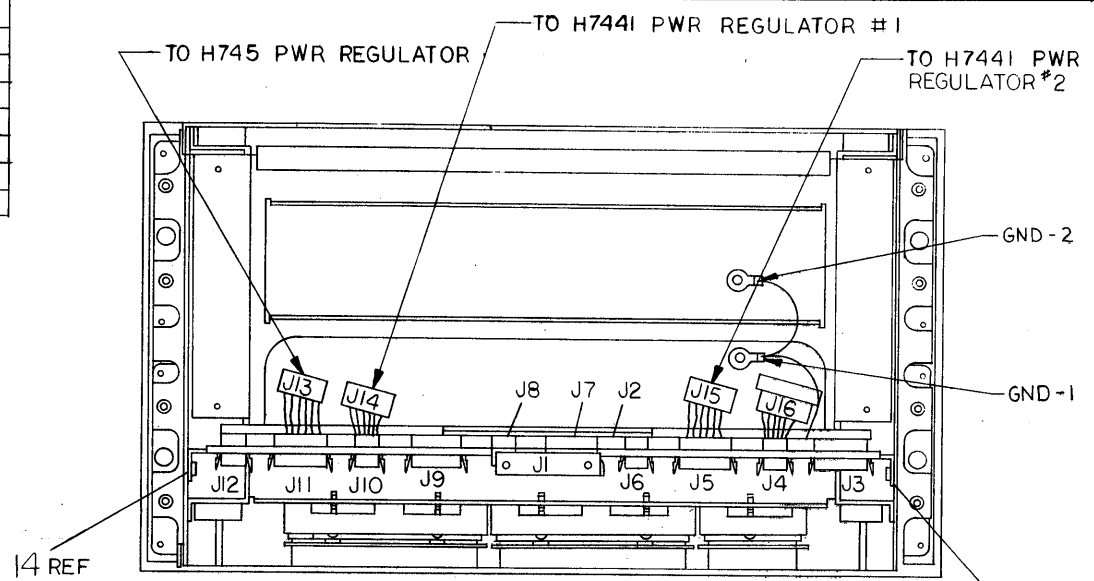
LEGEND	
NUMBER	VARIATION
7014173-0	120V (60 HZ)
7014173-1	240V (50 HZ)
7014173-2	120V (60 HZ)
7014173-3	240V (50 HZ)
7014173-4	120V (60 HZ)
7014173-5	240V (50 HZ)

REV. 2  
 NUMBER 7014173-0-0  
 SIZE CODE D AD

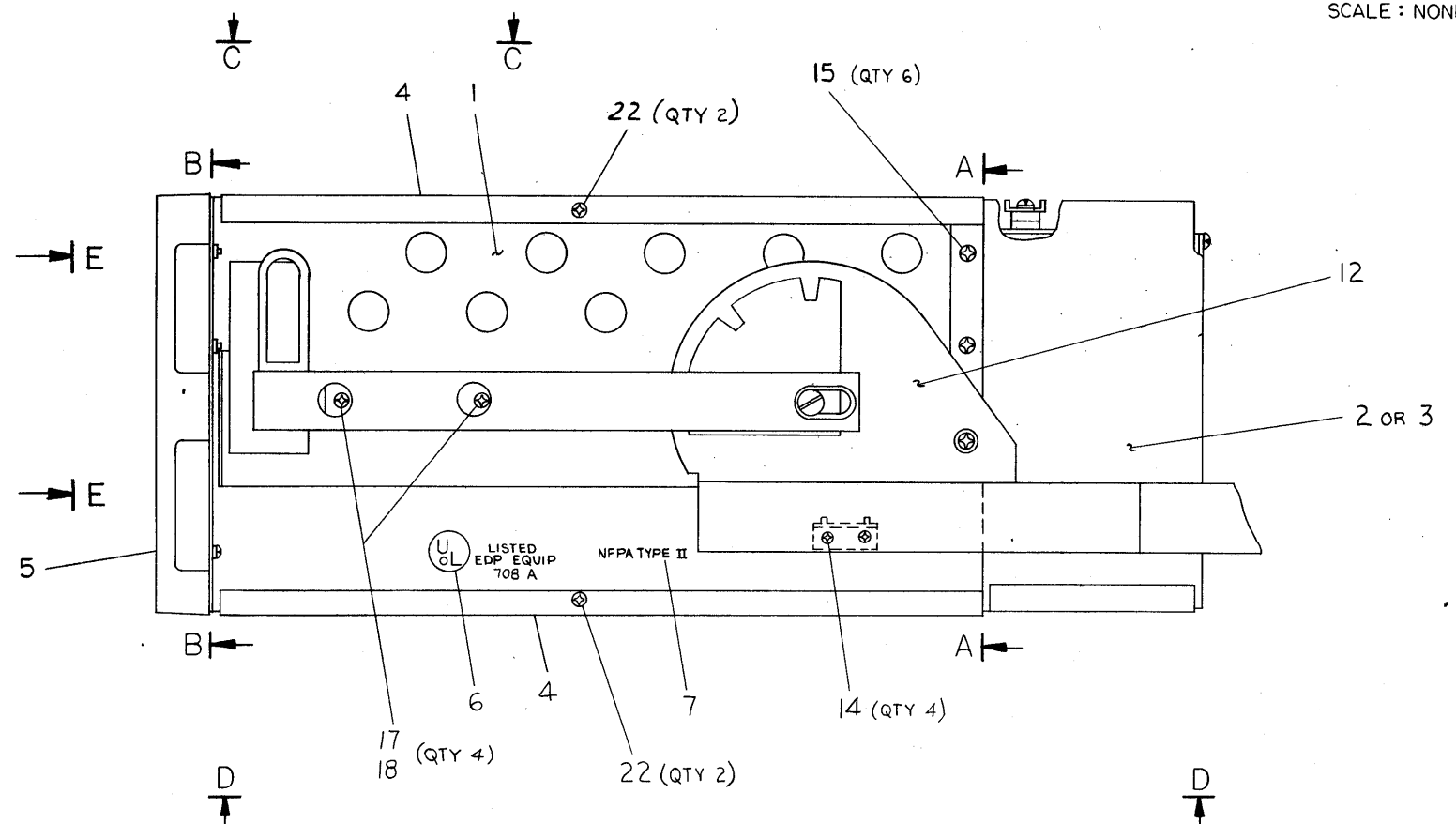
NOTES:



VIEW C-C  
 (TOP COVER ONLY)  
 SCALE: NONE



VIEW A-A  
 (REAR OF EXPANSION DRAWER)  
 SCALE: NONE



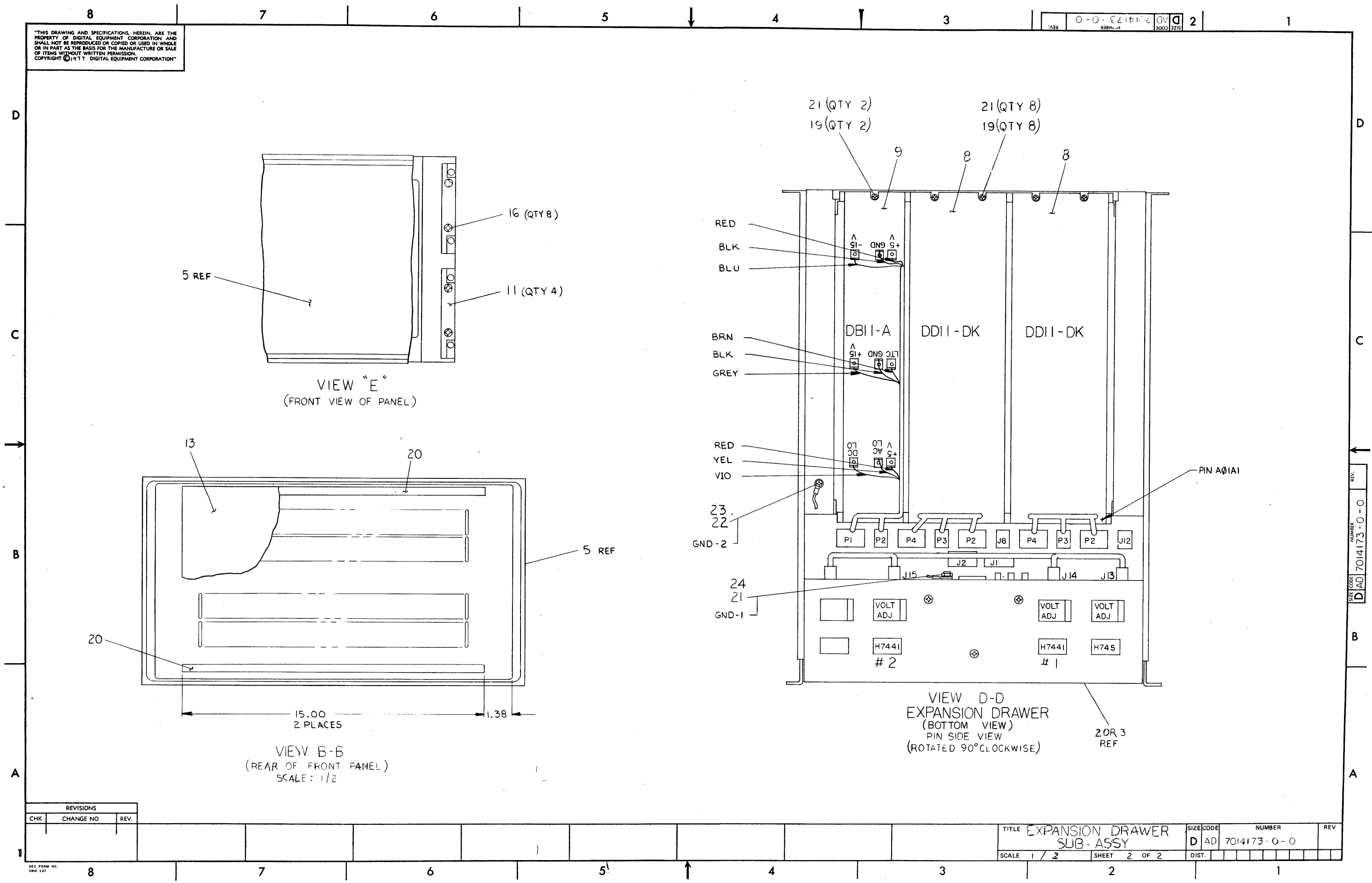
CAUTION:  
 OFF SHEETS PARTS LIST  
 EXIST A-PL-7014173-0-0

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
		OVER 0 TO 1.2	OVER 1.2 TO 40.0
SURFACE QUALITY	IN	±.004	±.008
		±.012	±.016
QUANTITY & VARIATION	MICROINCHES	±.004	±.008
		±.012	±.016
THIRD ANGLE PROJECTION		DRN. M. Quirk 7 Apr 77	FIRST USED ON DN20 digital
REMOVE BURRS AND BREAK SHARP CORNERS		CHK'D [Signature]	TITLE EXPANSION DRAWER SUB-ASSY
DO NOT SCALE DWG		PROJ. ENG. P. O. [Signature] 7 JUN 77	MATERIAL SEE PART LIST
NEXT HIGHER ASSY.		PROD. [Signature] 7 JUN 77	SCALE 1/2
FINISH		SIZE CODE D AD	NUMBER 7014173-0-0
SHEET 1 OF 2		DIST.	REV.

REV.	CHANGE NO.	REVISIONS

REV. 2  
 NUMBER 7014173-0-0  
 SIZE CODE D AD

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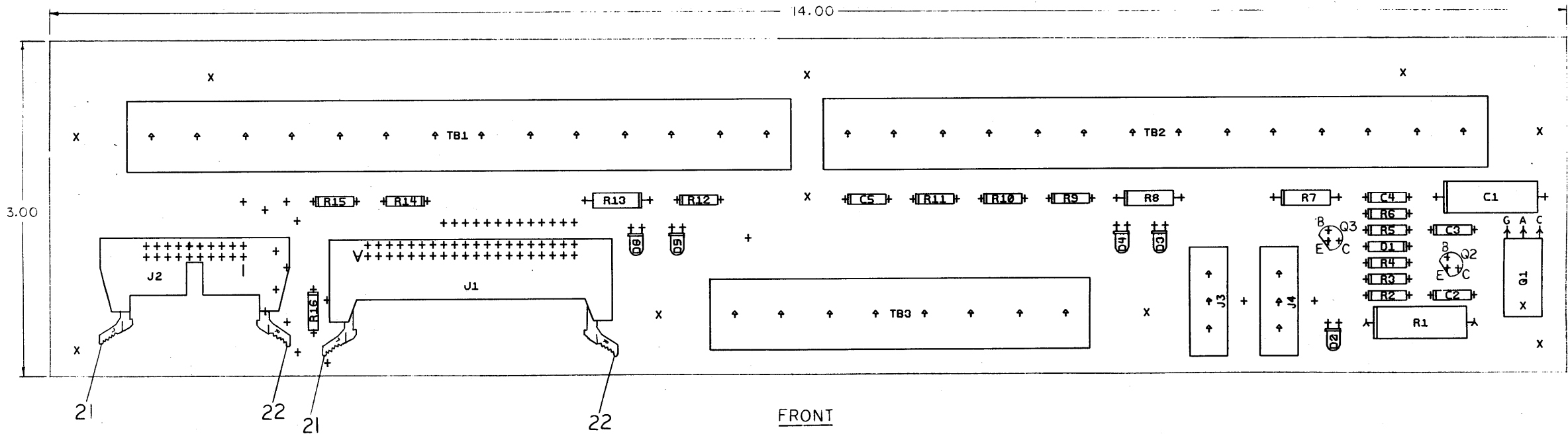


REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. DED 127

COMPONENT SIDE VIEW

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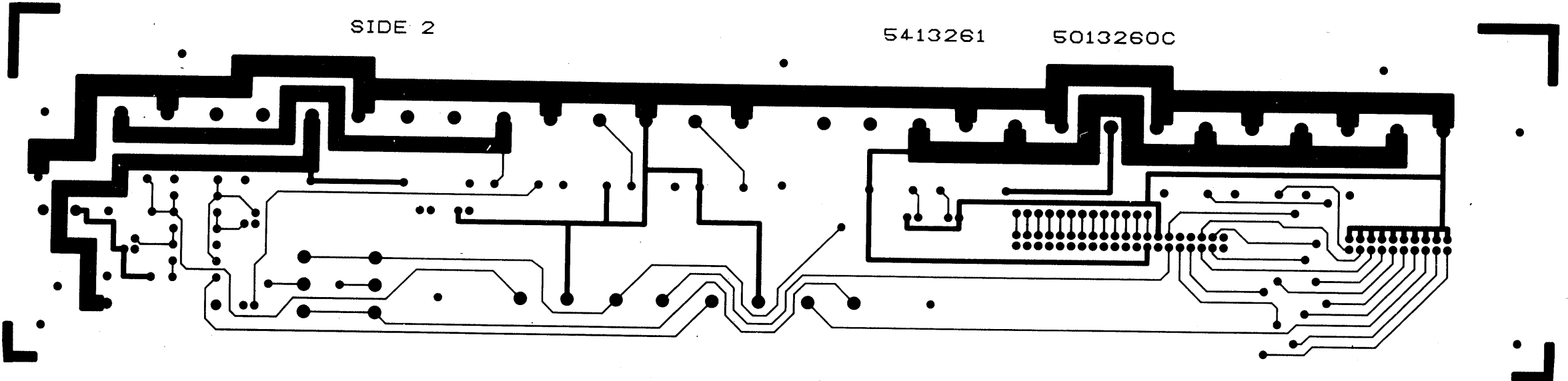
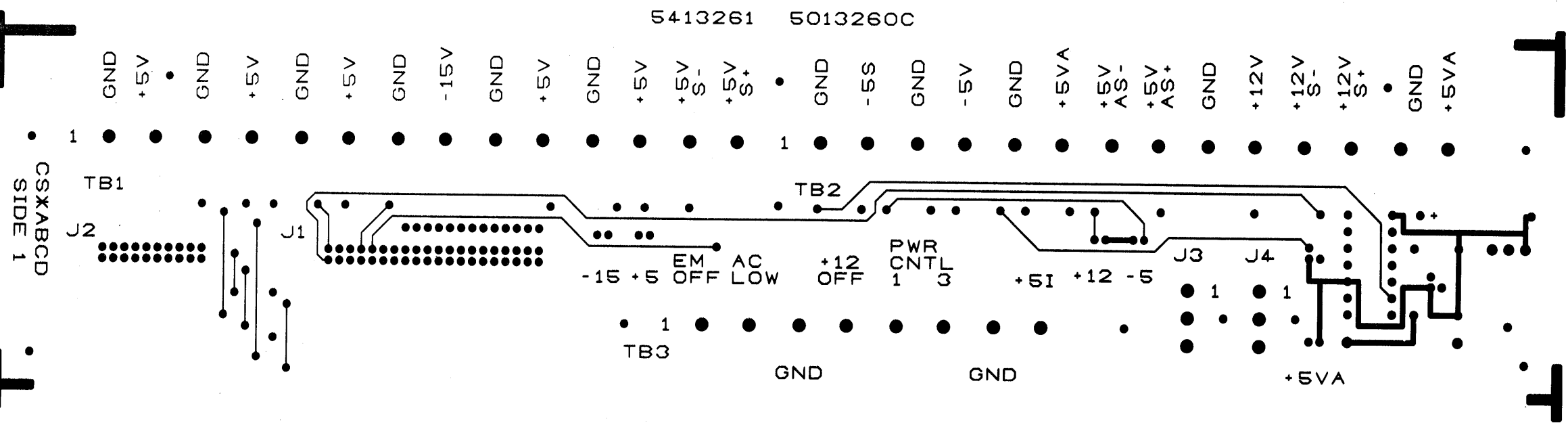
NOTES:

CHANGE NO	REV

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

SIGNATURES		DATE	digital
DRN.			
CHK'D			TITLE KSIO POWER DISTRIBUTION
ENG.			
PROJ. ENG.			SIZE CODE NUMBER D UA 5413261-C-C
PROD.			
SCALE	2/1		REV A
SHT.	1 OF 3		
NEXT HIGHER ASSY. B-DD-5413261-0			

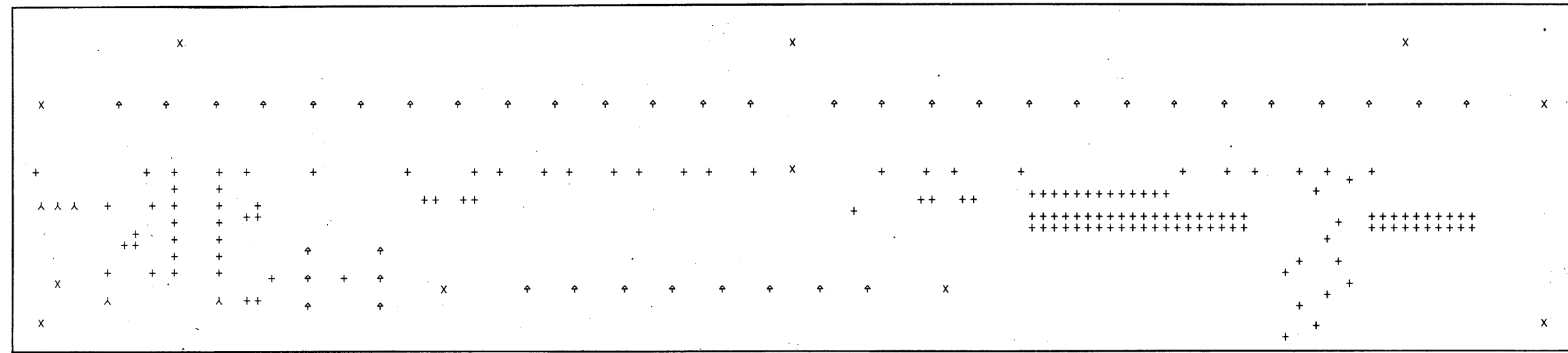
1978



REV	DATE	BY

TITLE	DESIGN	NUMBER	REV.
KSIØ POWER DISTRIBUTION	DUA	5413261-0-0	A
SCALE 2/1	SHEET 2	OF 3	

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REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KSIØ POWER DISTRIBUTION	D	UA	5413261-0-0	A
SCALE	2/1	SHEET	3 OF 3	DIST.



DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																			
			MODULE REVISION	A																			
		8616805-04	EPROM E805	I																			
		8616807-04	EPROM E807	I																			
		8616808-04	EPROM E808	I																			
		8616810-04	EPROM E810	I																			

**NOTES:**  
 1. ALL EPROMS FOR REVISION "A" MODULES WILL BE SUPPLIED BY ENGINEERING.

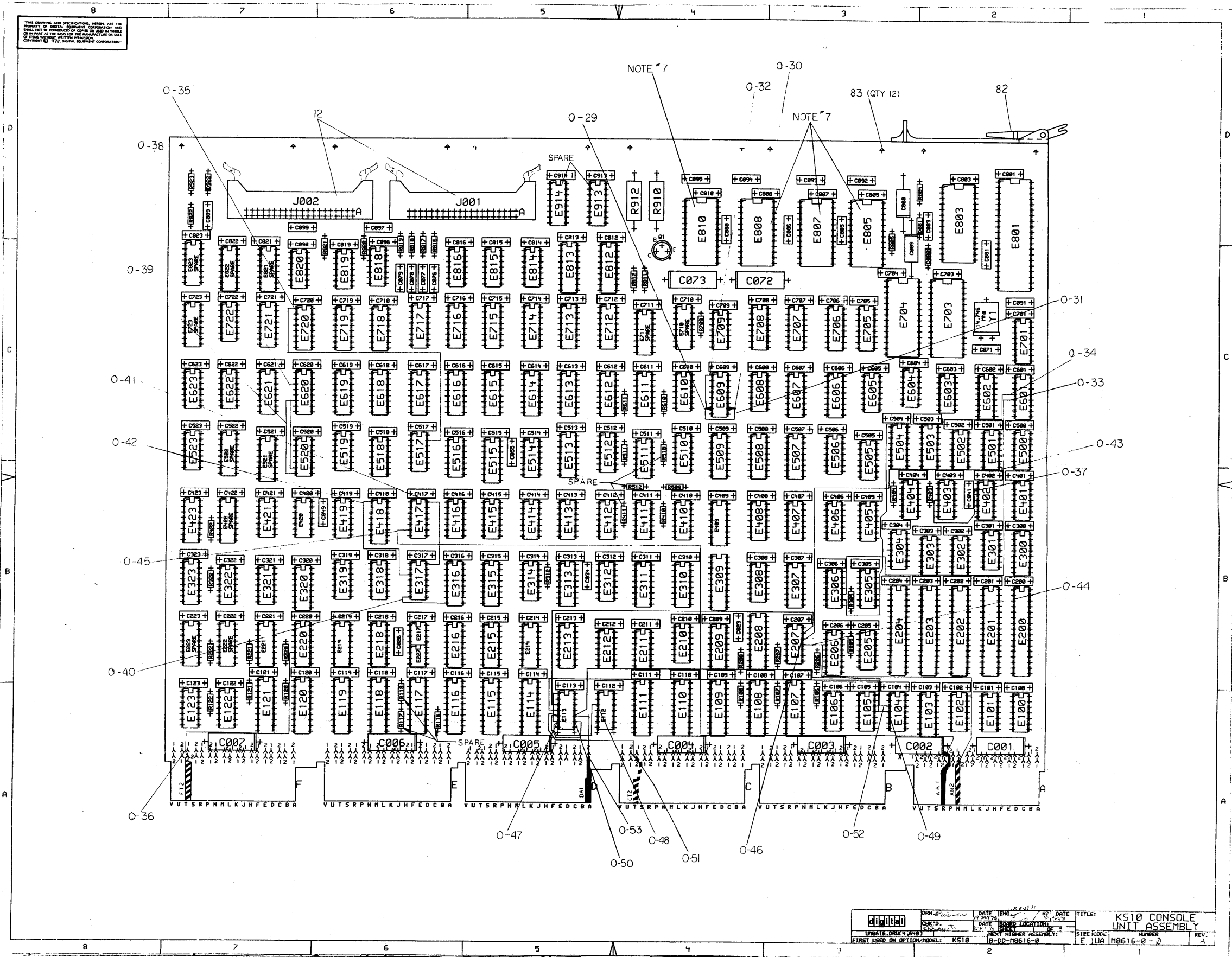
DATE	CHG NO.	ORIG	REV.
			X

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USED ON OPTION/MODEL	DRN.	CHK'D	ENG.	PROD.	TITLE	SIZE	CODE	NUMBER	REV.
K510	RW Cooney	RW Cooney	F. Vail	W. Bishop	K510 CONSOLE	B	DD	M8616-0	A
	13 Apr 78	13 Apr 78	22 Apr 78	428-78					
					SHEET 2 OF 2				

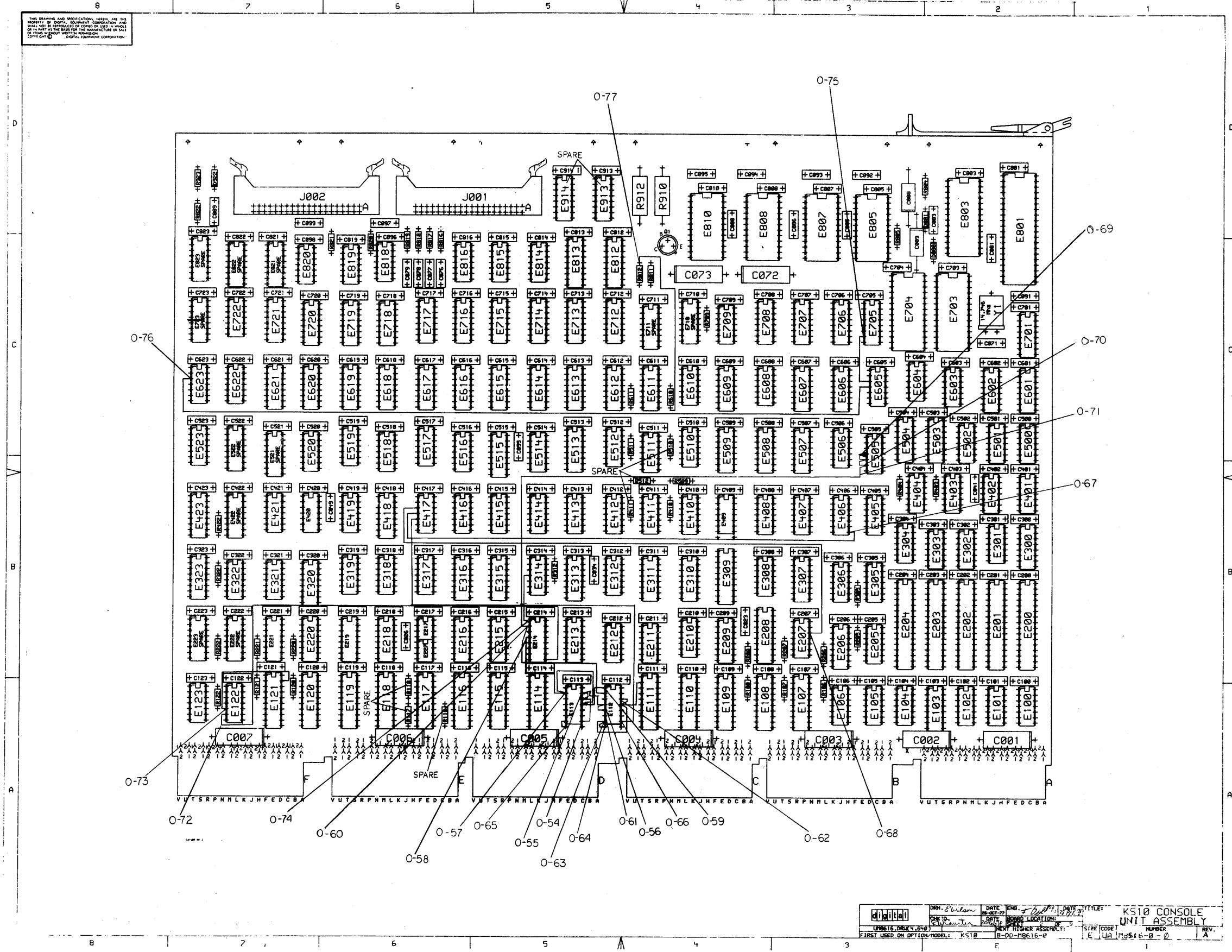
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DATE	ENG.	DATE	REV.	TITLE
10/20/70	...	10/20/70	1	KS10 CONSOLE UNIT ASSEMBLY
DESIGNER	CHECKED	DATE	REV.	
...	...	...	...	
FIRST USED ON OPTIM MODEL	KS10	REV. HISTORY ASSEMBLY	...	...
		...	...	...



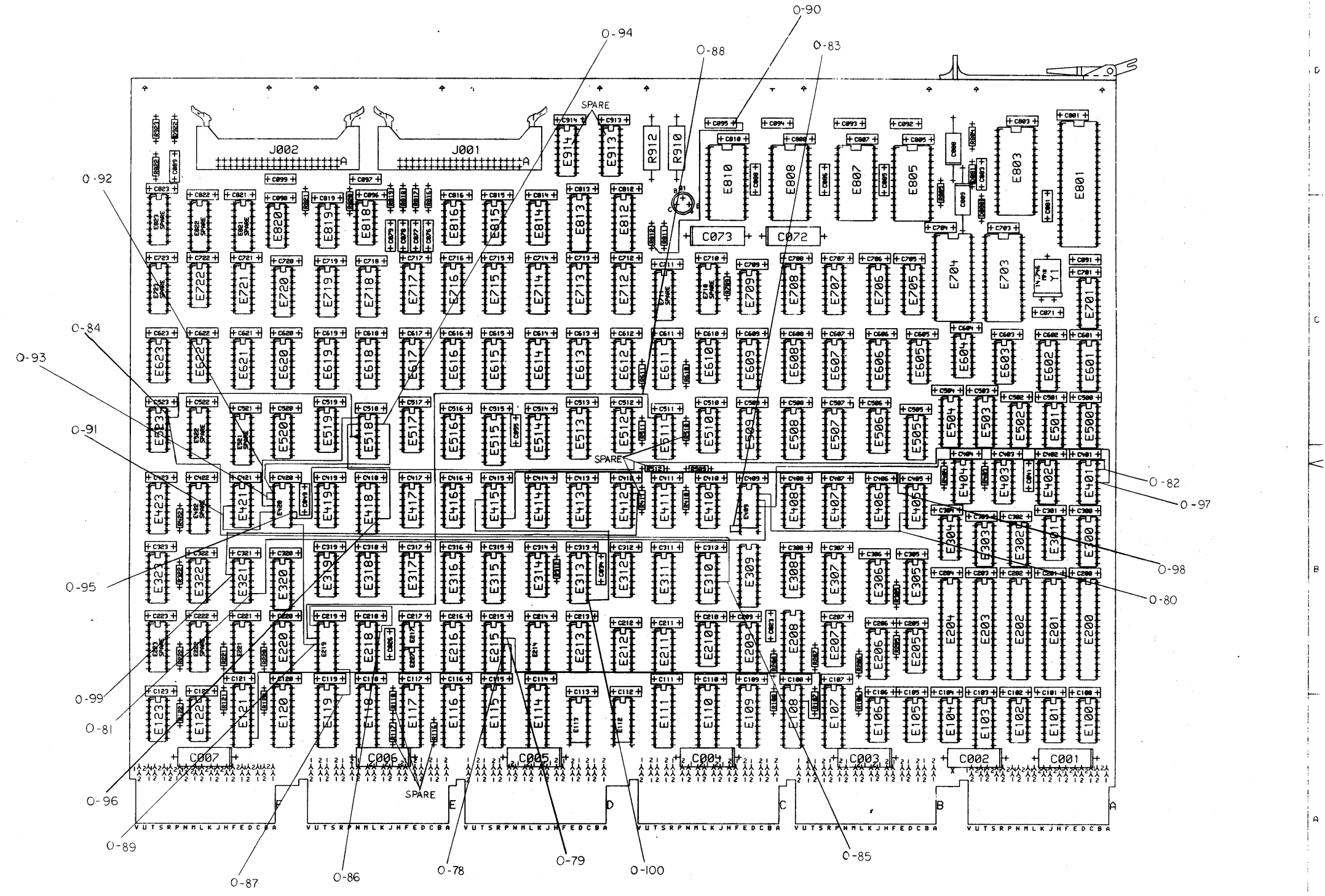
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DATE	ENG.	DATE	ENG.	DATE	ENG.	FILE
11/18/71	W. L. WILSON	11/18/71	W. L. WILSON	11/18/71	W. L. WILSON	KS10 CONSOLE UNIT ASSEMBLY
DATE	LOC.	DATE	LOC.	DATE	LOC.	REV.
11/18/71	W. L. WILSON	11/18/71	W. L. WILSON	11/18/71	W. L. WILSON	A
DATE	LOC.	DATE	LOC.	DATE	LOC.	REV.
11/18/71	W. L. WILSON	11/18/71	W. L. WILSON	11/18/71	W. L. WILSON	A

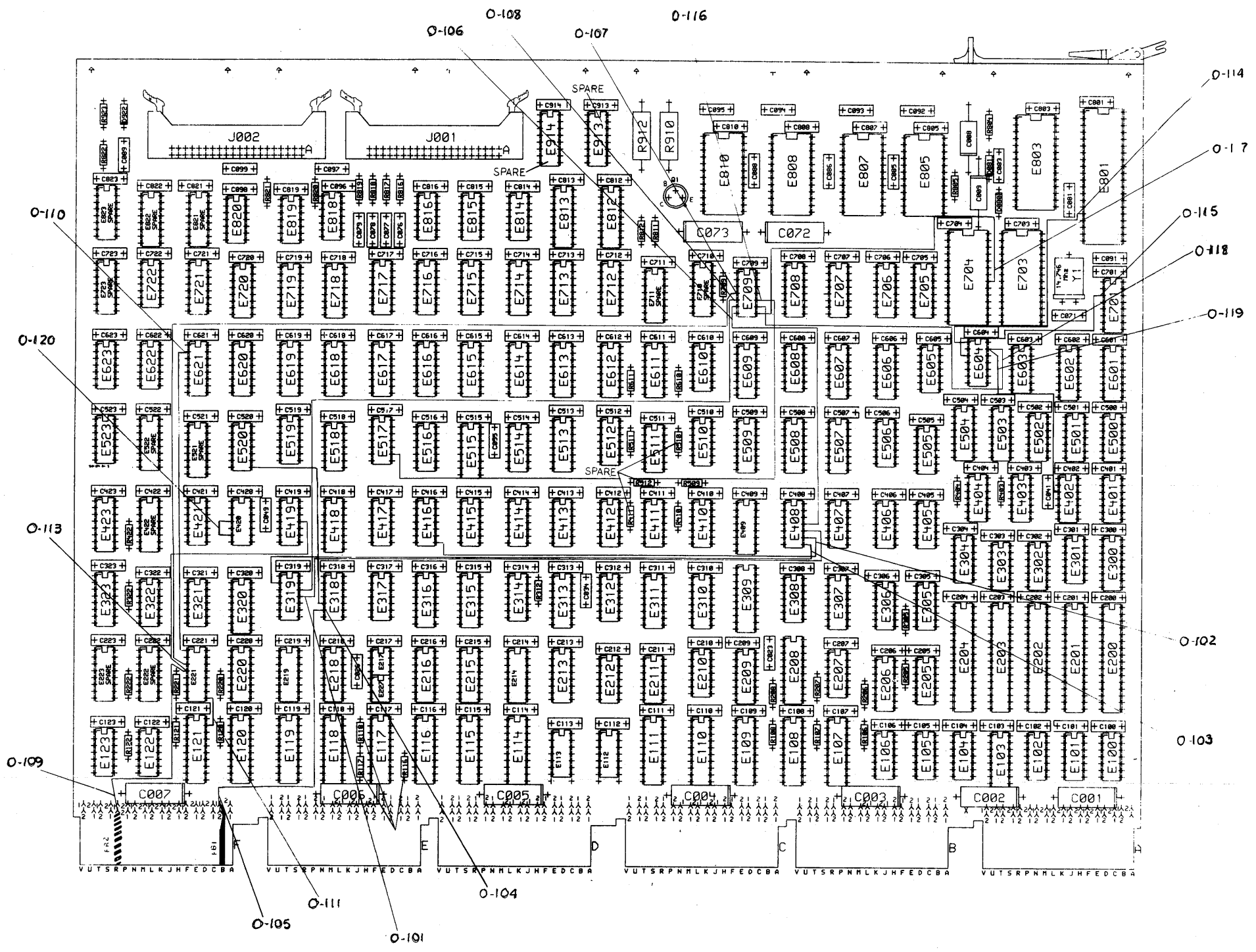
UNBATE, OMLCT, 61P  
FIRST USED ON OPTION/MODEL: KS10 B-DU-NB616-0

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DRN. <i>William</i>	DATE <i>12/21/54</i>	FILE #	KS10 CONSOLE
CHK'D. <i>Low</i>	DATE <i>12/21/54</i>	LOC. <i>101</i>	UNIT ASSEMBLY
APP'D. <i>Low</i>	DATE <i>12/21/54</i>	REV. <i>1</i>	REV. <i>1</i>
FIRST USED ON OPTION/MODEL: <i>K510</i>	REV. <i>1</i>	REV. <i>1</i>	REV. <i>1</i>

8  
7  
6  
5  
4  
3  
2  
1  
A  
B  
C  
D



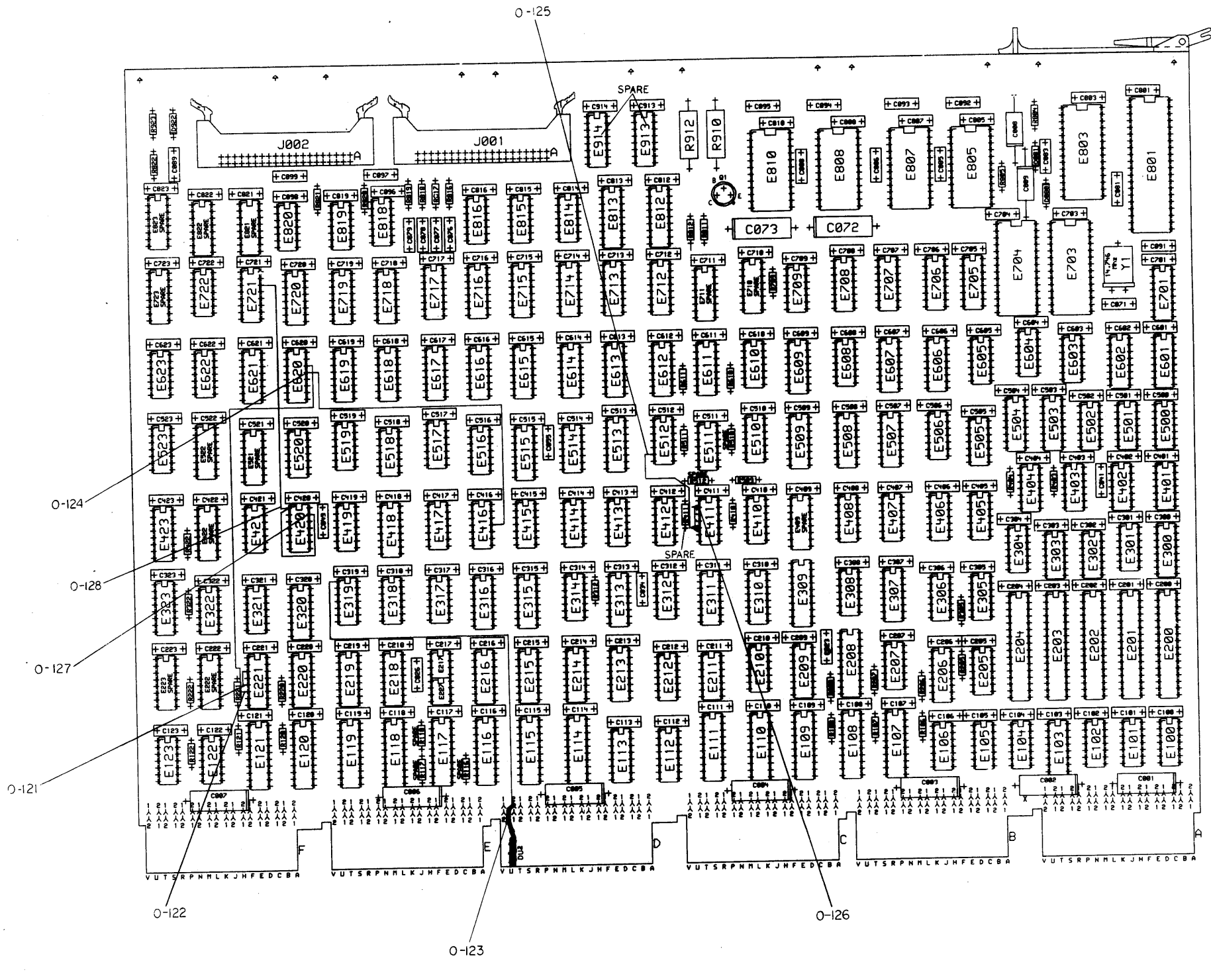
8  
7  
6  
5  
4  
3  
2  
1  
A  
B  
C  
D

DATE	10/10/68	DATE	10/10/68	DATE	10/10/68	DATE	10/10/68
REV.	1	REV.	1	REV.	1	REV.	1
BY	WILSON	BY	WILSON	BY	WILSON	BY	WILSON
CHKD.		CHKD.		CHKD.		CHKD.	
APP'D.		APP'D.		APP'D.		APP'D.	
DATE	10/10/68	DATE	10/10/68	DATE	10/10/68	DATE	10/10/68
REV.	1	REV.	1	REV.	1	REV.	1
BY	WILSON	BY	WILSON	BY	WILSON	BY	WILSON
CHKD.		CHKD.		CHKD.		CHKD.	
APP'D.		APP'D.		APP'D.		APP'D.	

UNITS ORIGINATED BY: WILSON  
FIRST USED ON OPTION MODEL: K510  
DATE: 10/10/68  
REV: 1

**K510 CONSOLE UNIT ASSEMBLY**

REV: 1  
DATE: 10/10/68



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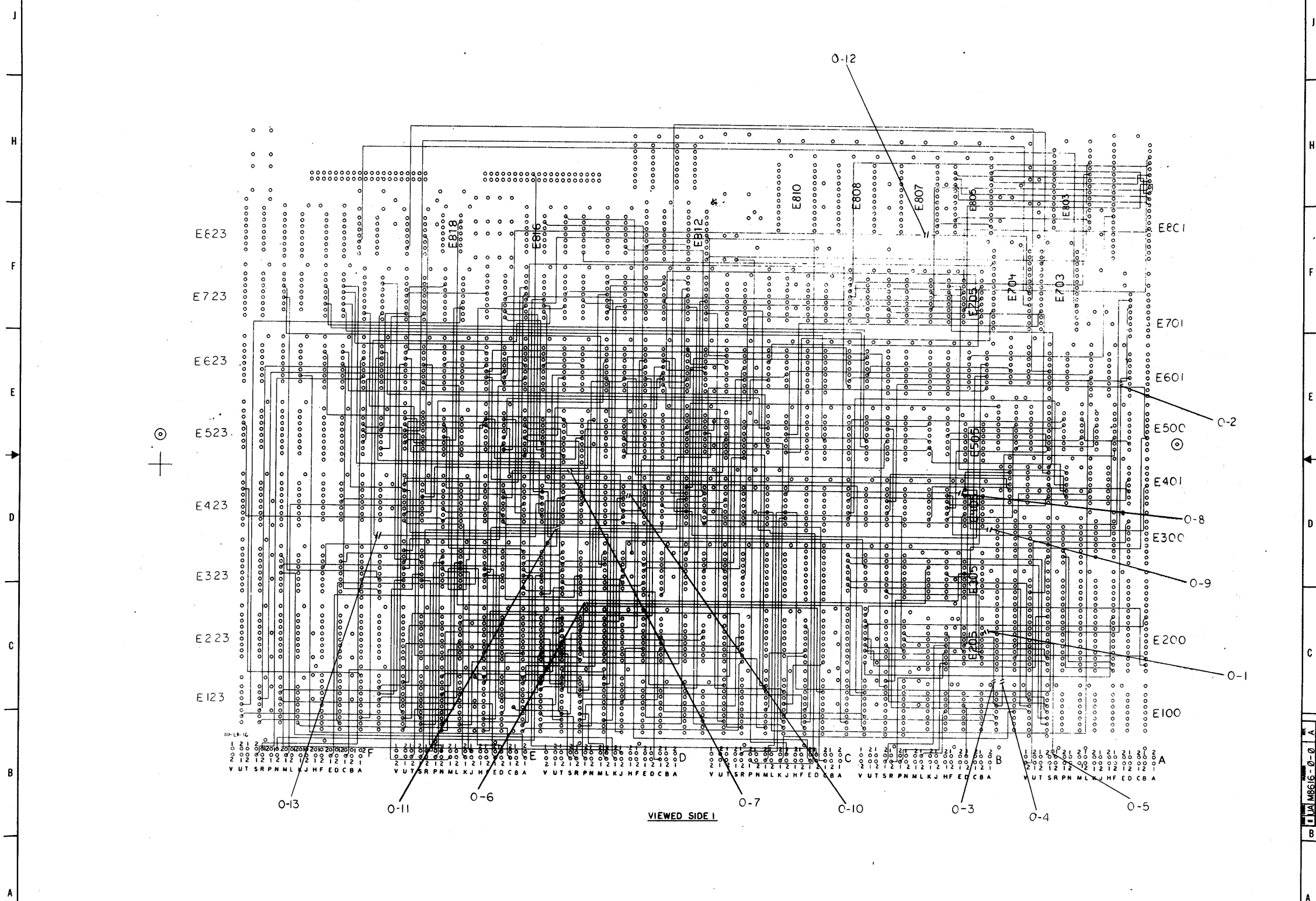
REV. NO.	DATE	DESCRIPTION
1		INITIAL RELEASE

REVISIONS	DATE	DESCRIPTION
1		INITIAL RELEASE

DATE: ENG	DATE: TITL	DATE: TITL	DATE: TITL
DATE: TITL	DATE: TITL	DATE: TITL	DATE: TITL
DATE: TITL	DATE: TITL	DATE: TITL	DATE: TITL
DATE: TITL	DATE: TITL	DATE: TITL	DATE: TITL

FIRST USED ON OPTION MODEL: K510  
 NEXT HIGHER ASSEMBLY: B-DD-M8616-B  
 PART NUMBER: 0-125  
 DRAWING NUMBER: 0-125

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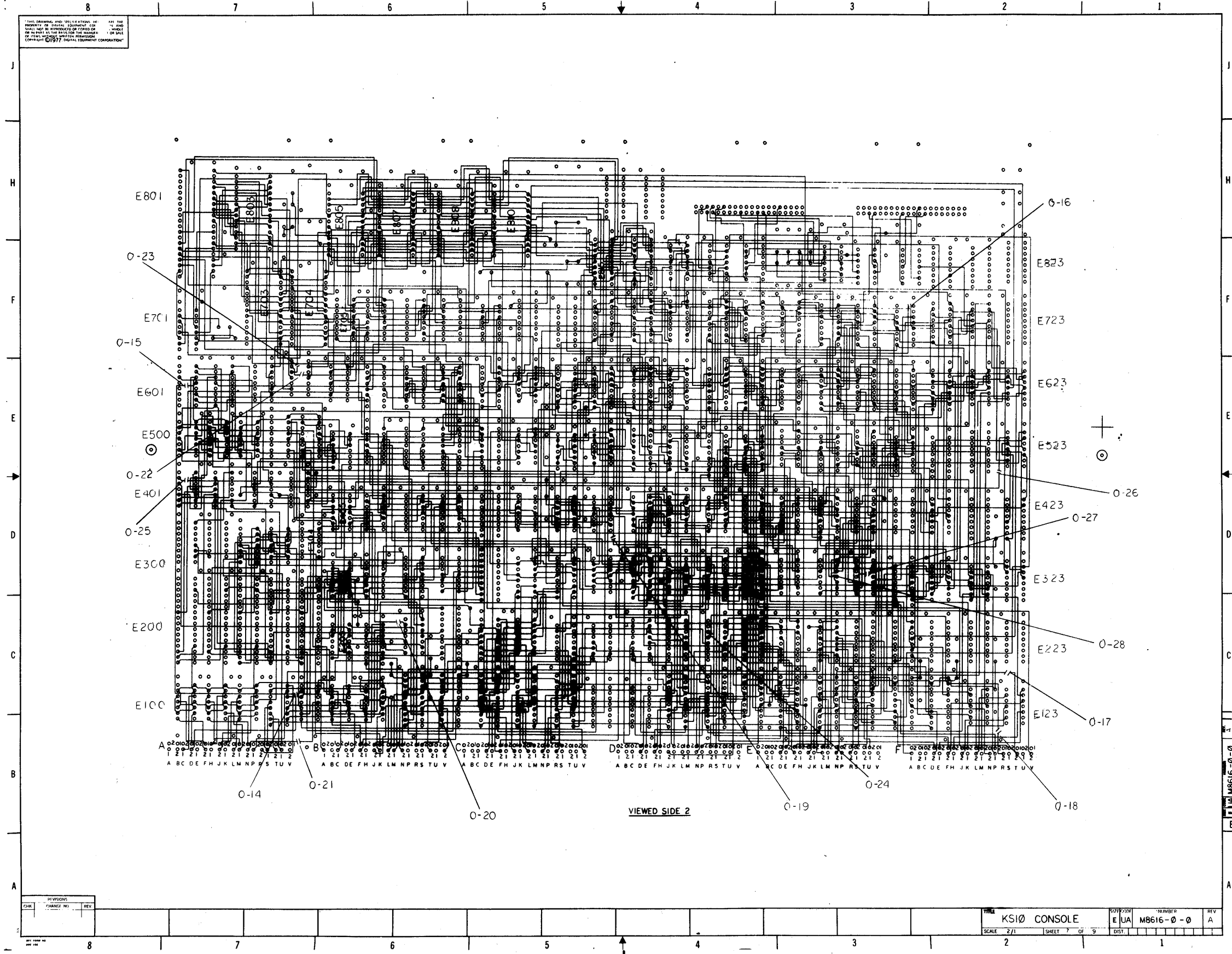


REV	CHANG. NO.	DESCRIPTION

TITLE		SCALE	SHEET	OF	TOTAL	NUMBER	REV.
KSIØ CONSOLE		2/1	6	9	9	EUA M8616-Ø-Ø	A

EUA M8616-Ø-Ø

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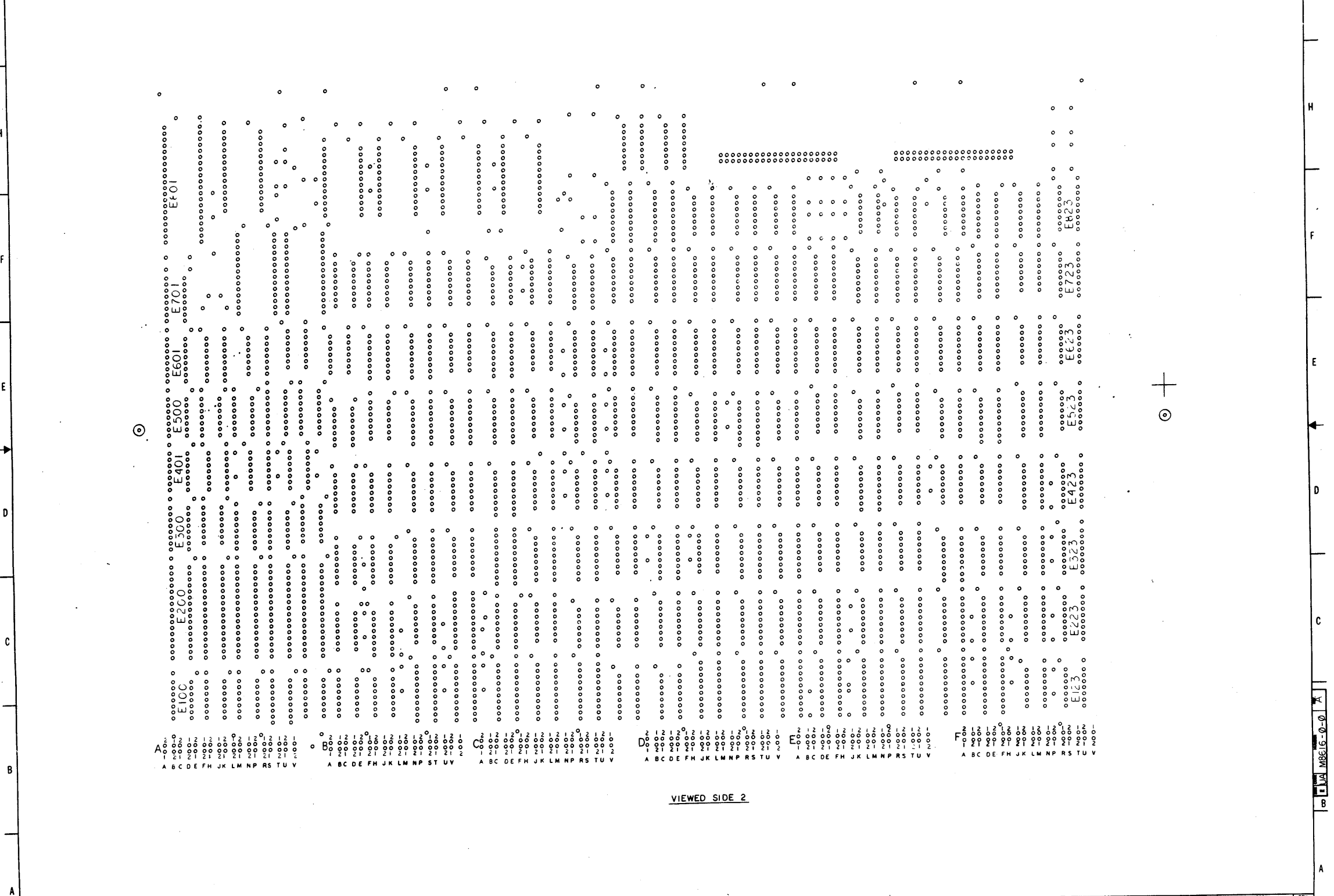
CHK	DESIGNER	REV

FILE	KS10 CONSOLE	DIFF/REV	E/UA	NUMBER	M8616-0-0	REV	A
SCALE	2/1	SHEET	7	OF	9	DIST.	

M8616-0-0



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VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
KSIO CONSOLE		E UA	M8616-0-0	A
SCALE	SHEET	OF	DIST.	
2/1	8	9		

EUA M8616-0-0 A

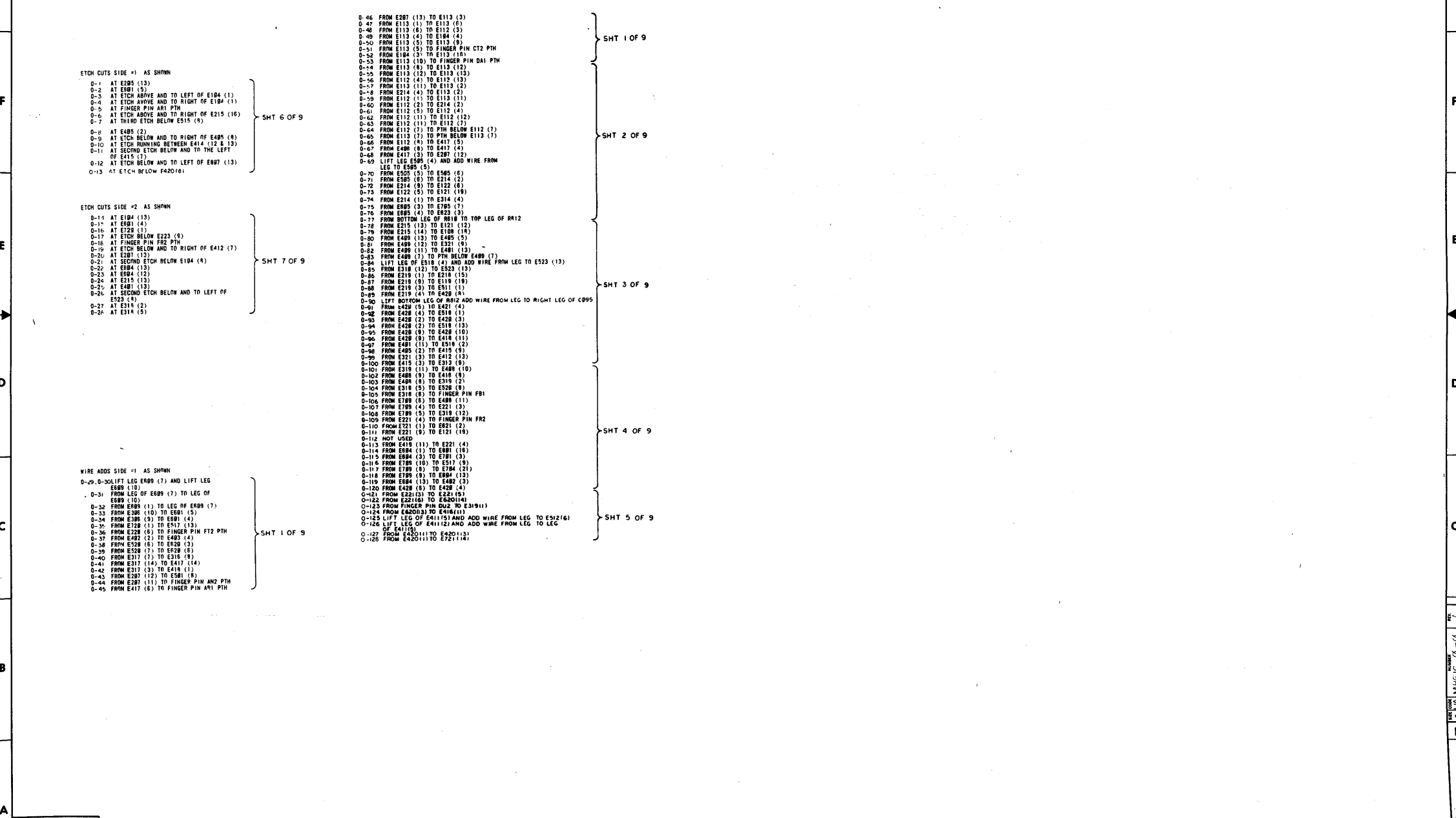
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- NOTES:**
- FOR DRAWING DIRECTORY, REFER TO: B-00-M8616-0
  - UNLESS OTHERWISE SPECIFIED, THE FOLLOWING PIN NUMBERS APPLY:  

PACKAGE TYPE	VCC	GND	-VCC
16 PIN DIP	16	8	-
14 PIN DIP	14	7	-
IC DEC 8648	20	5,15	-
IC DEC 8640	8	1	-
IC DEC 2144-2	18	9	-
IC DEC 8080	20,28	2	11
  - THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON.
  - MAXIMUM COMPONENT HEIGHT IS .700
  - MAXIMUM COMPONENT LEAD PROTRUSION IS .047
  - FINISHED HOLE SIZES ARE, IN INCHES:  

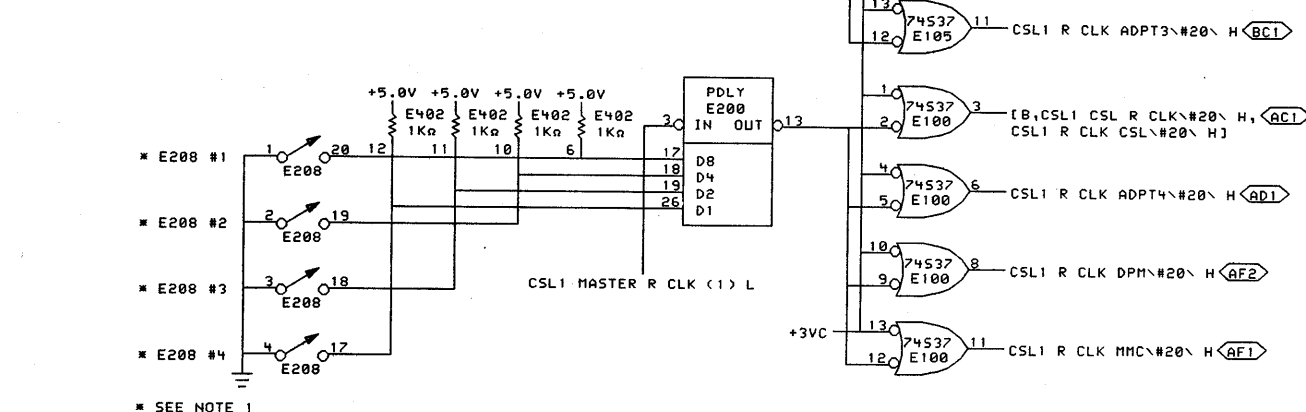
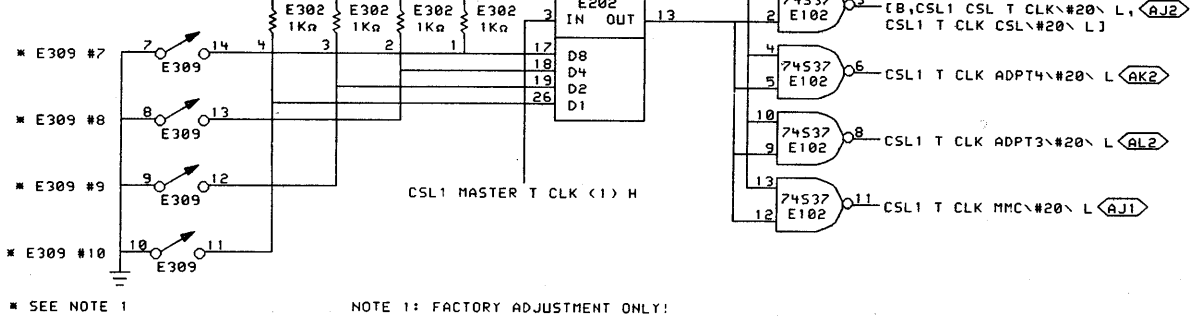
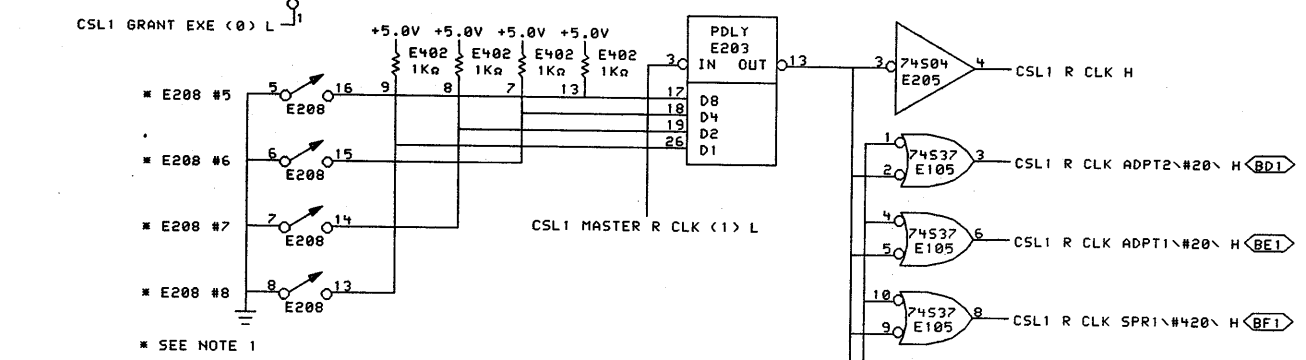
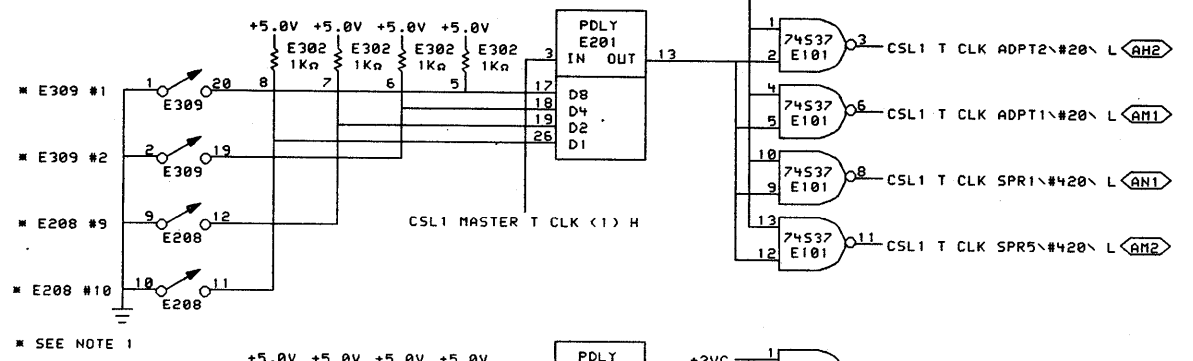
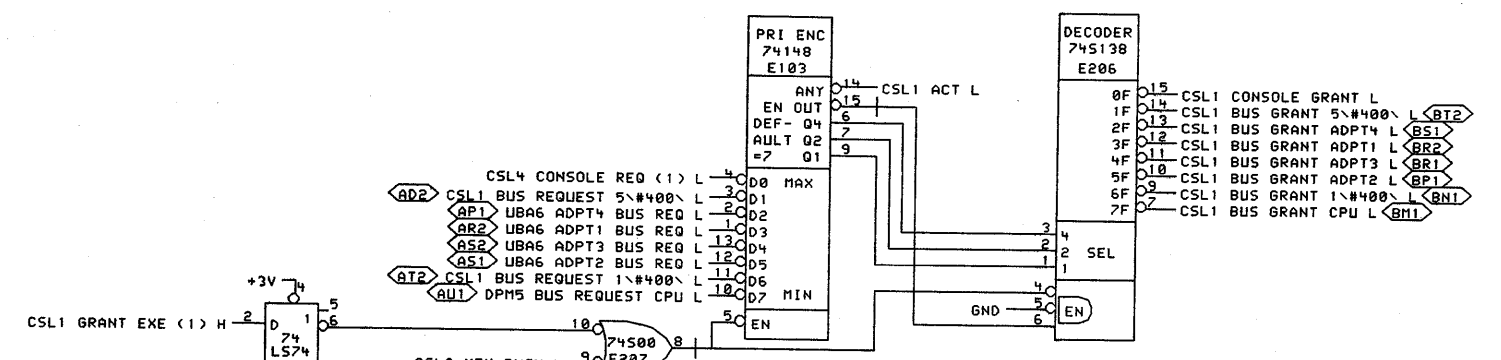
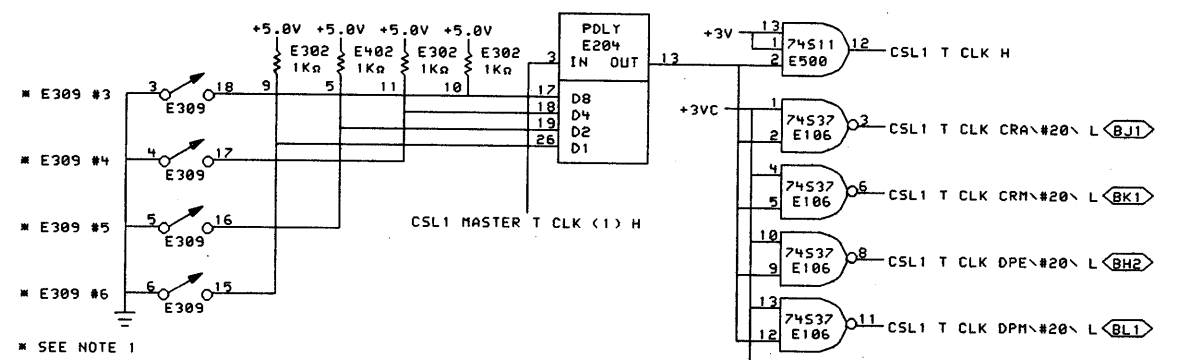
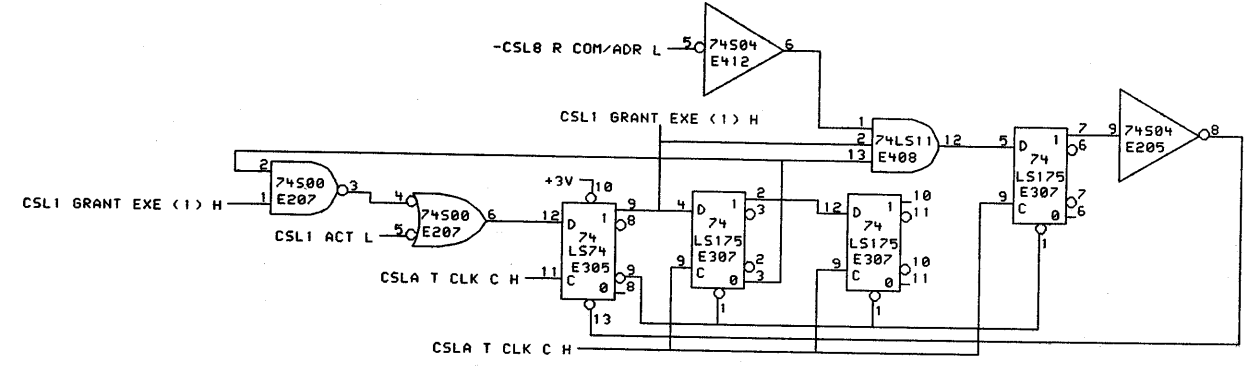
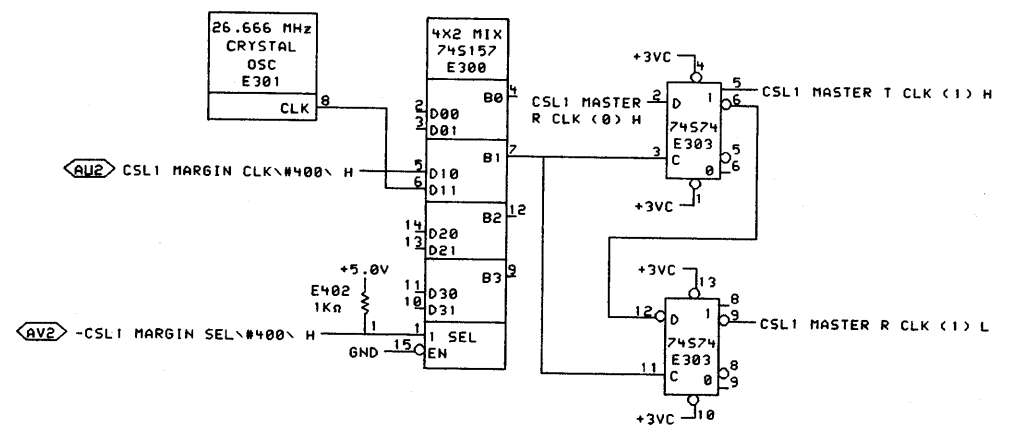
+	+.037 ±.003
†	†.133 ±.002 -.007
X	X .100 ±.003
A	A ±.025 ±.003 -.006
  - ERRORS E607, E67\*, E681G WILL BE SUPPLIED BY ENGINEERING

REWORK INSTRUCTIONS  
FIRST RELEASE



REVISIONS		
CHK	CHANGE NO.	REV.





NOTE 1: FACTORY ADJUSTMENT ONLY!

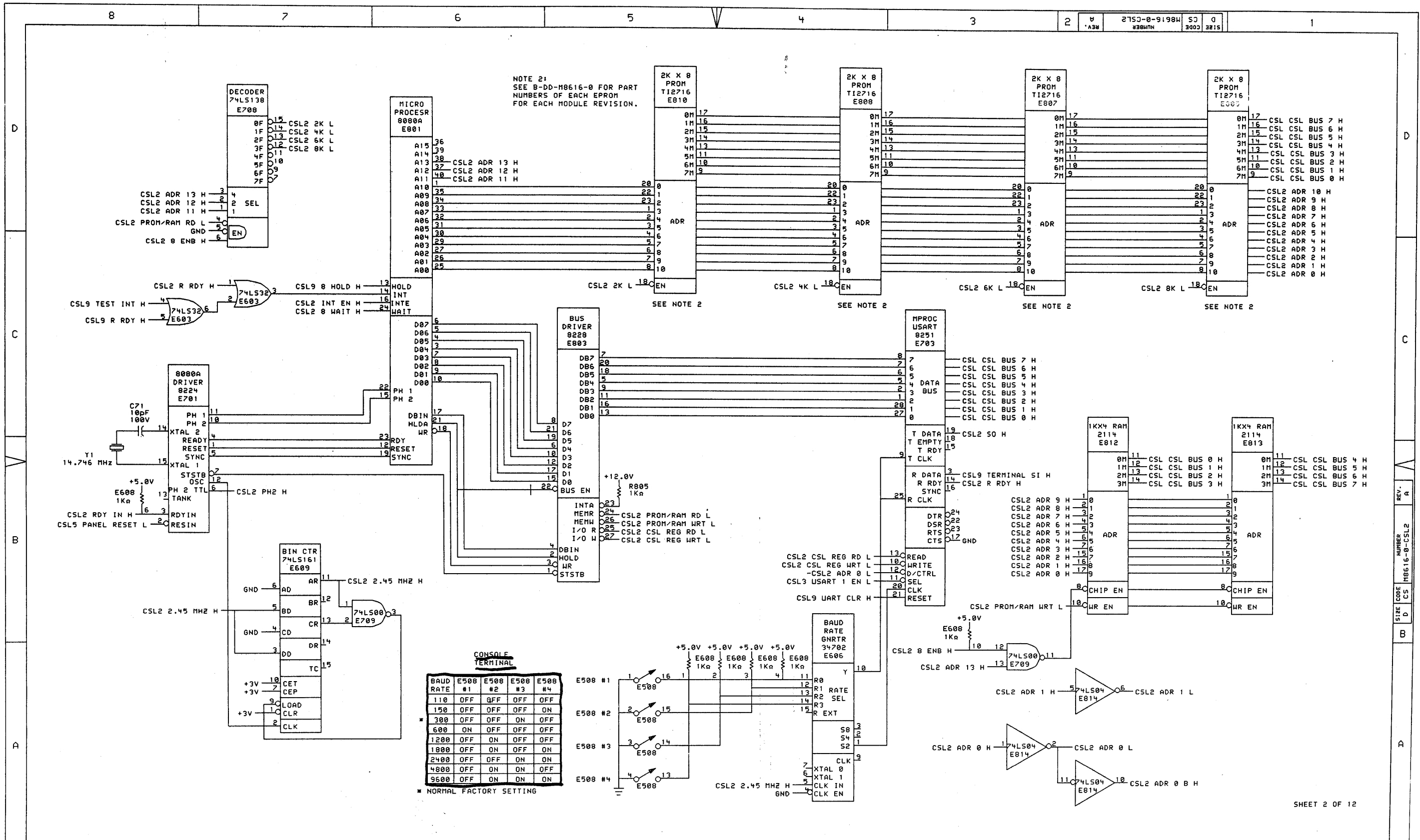
SEE NOTE 1

SHEET 1 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digit	DATE: 03-MAY-78	ENG. J. J.	DATE: 03-MAY-78	TITLE: CONSOLE & CONTROL CLK, KS10 ARB.
CSL1.DRW#4.6613	03-MAY-78 10:58			
FIRST USED ON OPTION/MODEL: KS10	NEXT HIGHER ASSEMBLY: B-DD-M8616-0	BOARD LOCATION: 1AF18	SHEET 1 OF 1	
		SIZE CODE: CS	NUMBER: M8616-0-CSL1	REV. A



NOTE 2:  
SEE B-DD-M8616-0 FOR PART  
NUMBERS OF EACH EPROM  
FOR EACH MODULE REVISION.

CONSOLE TERMINAL

BAUD RATE	E508 #1	E508 #2	E508 #3	E508 #4
110	OFF	OFF	OFF	OFF
150	OFF	OFF	ON	OFF
300	OFF	OFF	ON	OFF
600	ON	OFF	OFF	OFF
1200	OFF	ON	OFF	OFF
1800	OFF	ON	OFF	ON
2400	OFF	OFF	ON	OFF
4800	OFF	ON	ON	OFF
9600	OFF	ON	ON	ON

\* NORMAL FACTORY SETTING

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REVISIONS

CHK	CHANGE NO.	REV

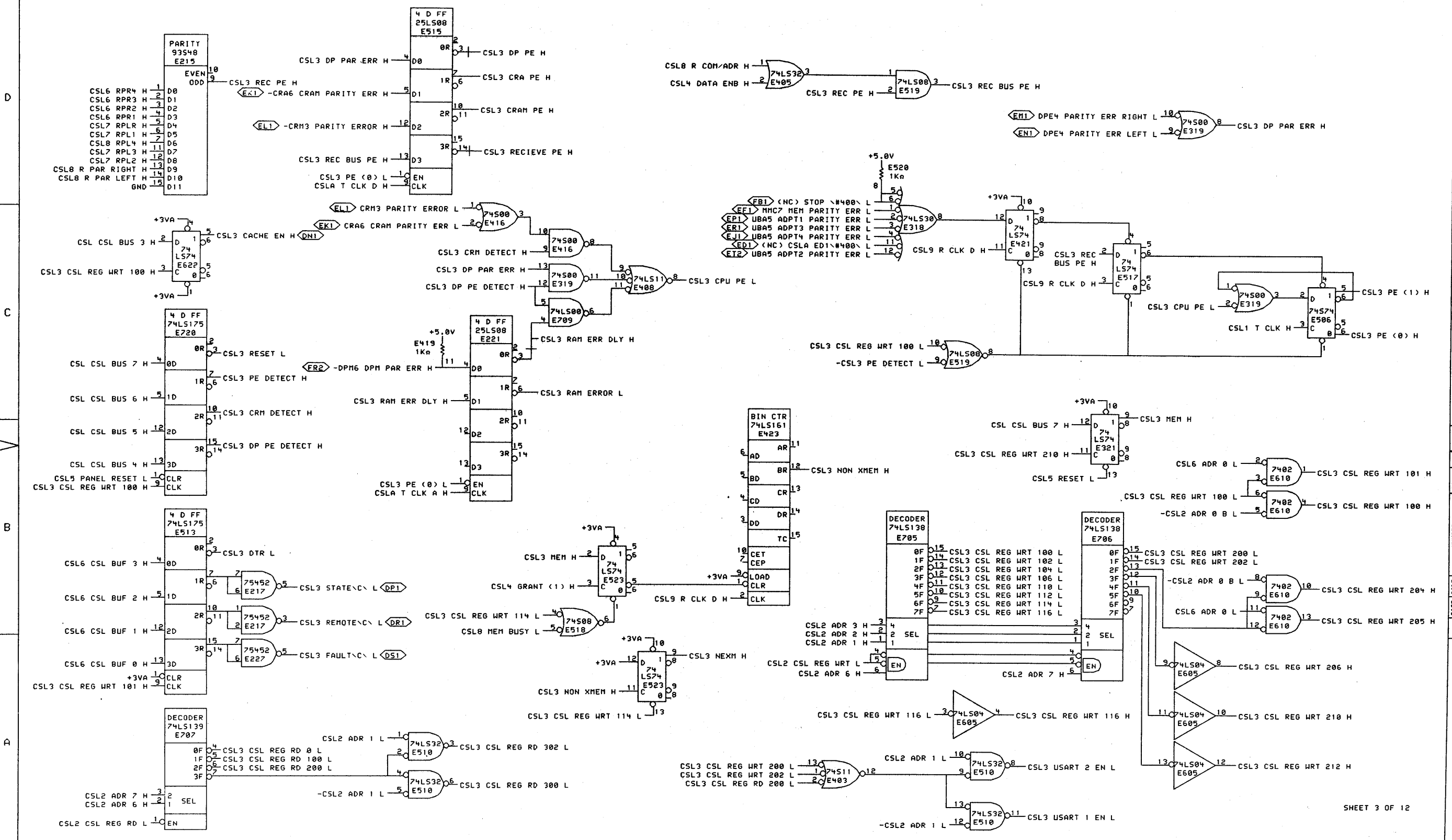
digital

DATE: 03-MAY-78  
ENG. [Signature]  
DATE: [Signature]  
SHEET: 1 OF 1

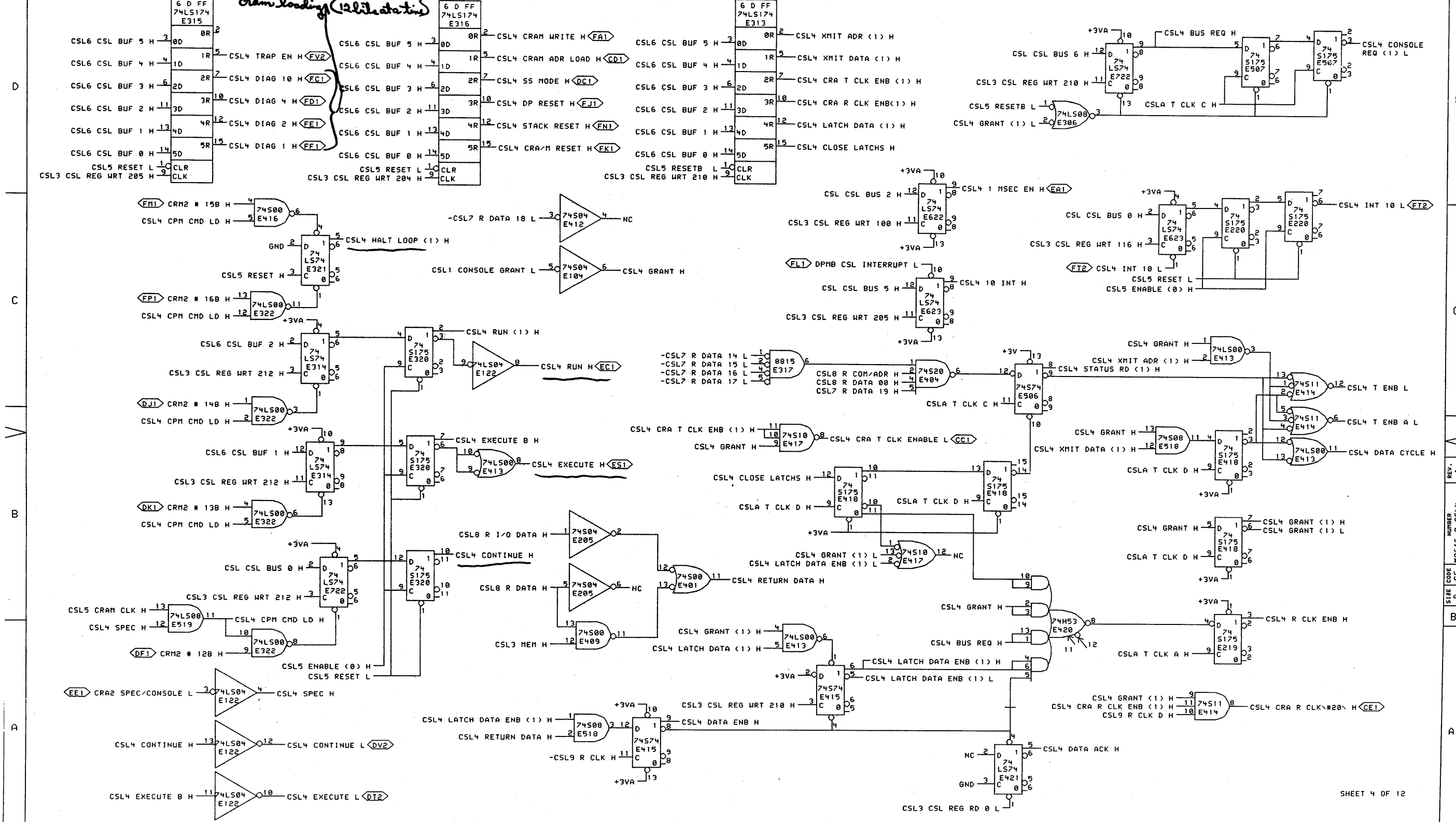
TITLE: CONSOLE & CONTROL CONSOLE CONTROL

SIZE: CCDE NUMBER: 1AF18  
D CS M8616-0-CSL2 REV. A

CSL2.DRW(4,651) 03-MAY-78 11:11 NEXT HIGHER ASSEMBLY: R-DD-M8616-0



*used to address  
cram loading (2 bits at a time)*



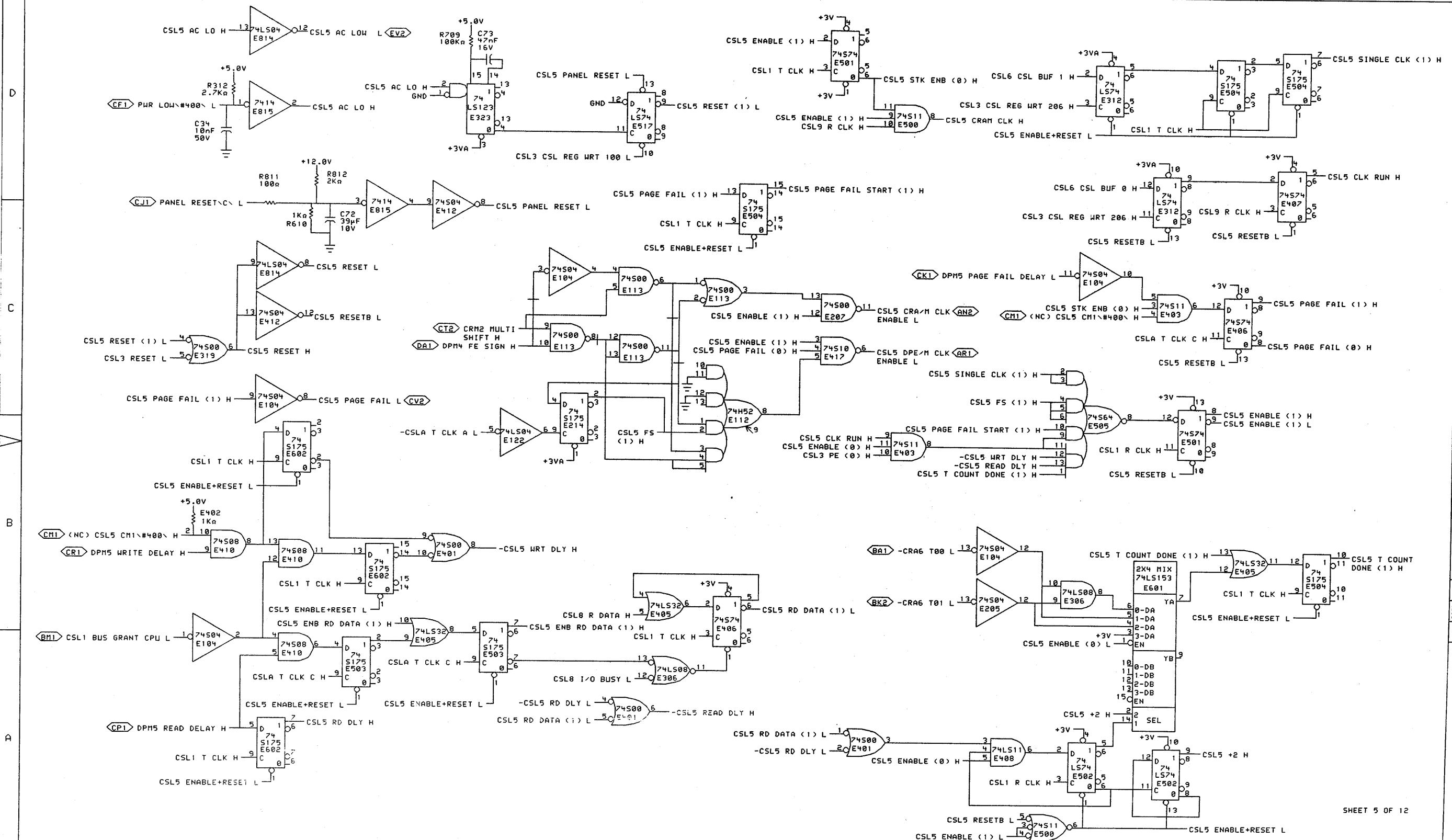
SHEET 4 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE: 03-MAY-78	ENG: [Signature]	DATE: [Signature]	TITLE: CONSOLE & CONTROL CPU CONTROL
CSL4.DRW(4,661)	03-MAY-78 11:45	NEXT HIGHER ASSEMBLY:	SHEET 1 OF 1	BOARD LOCATION: IAF18
FIRST USED ON OPTION/MODEL: KS10	B-DD-M8616-0			

SIZE	CODE	NUMBER	REV. A
D	CS	M8616-0-CSL4	A



SHEET 5 OF 12

8

7

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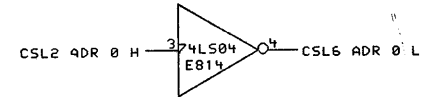
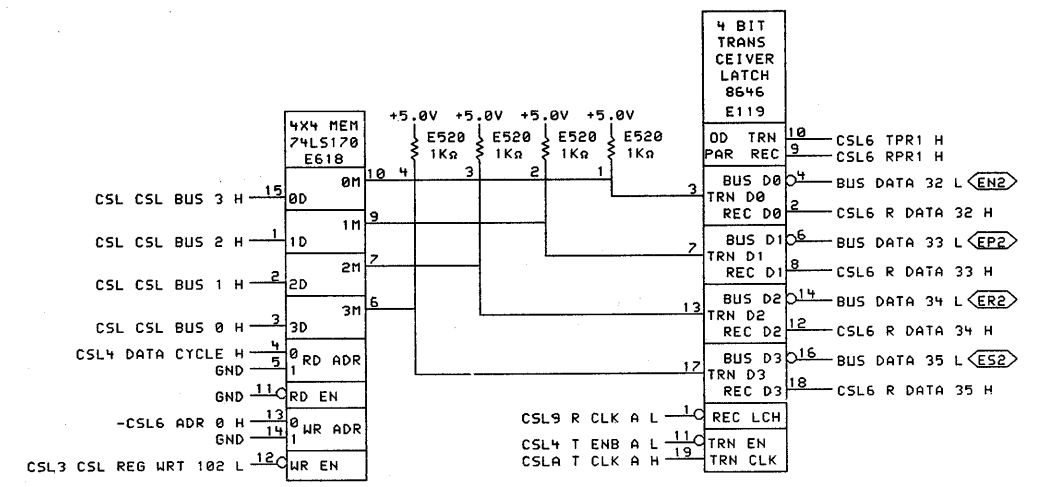
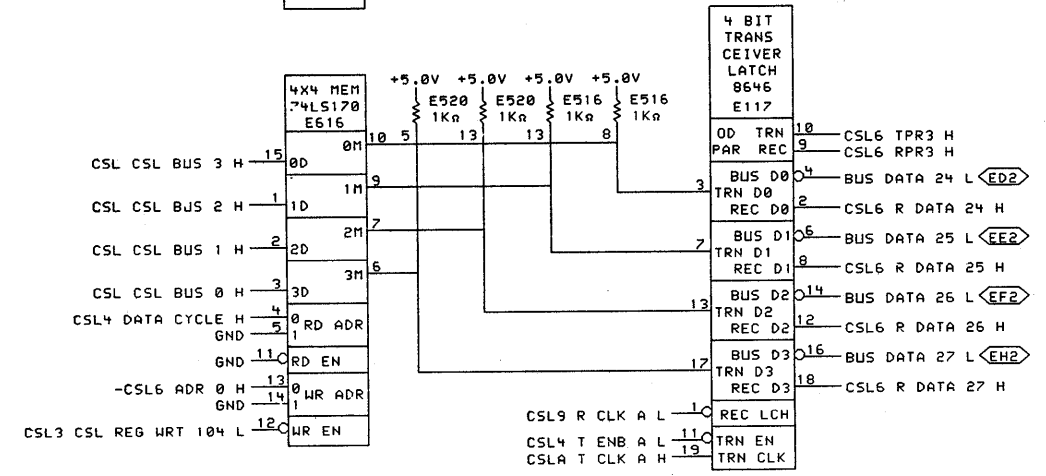
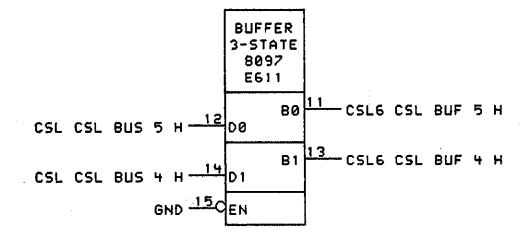
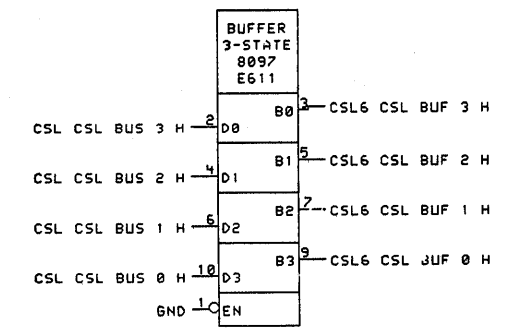
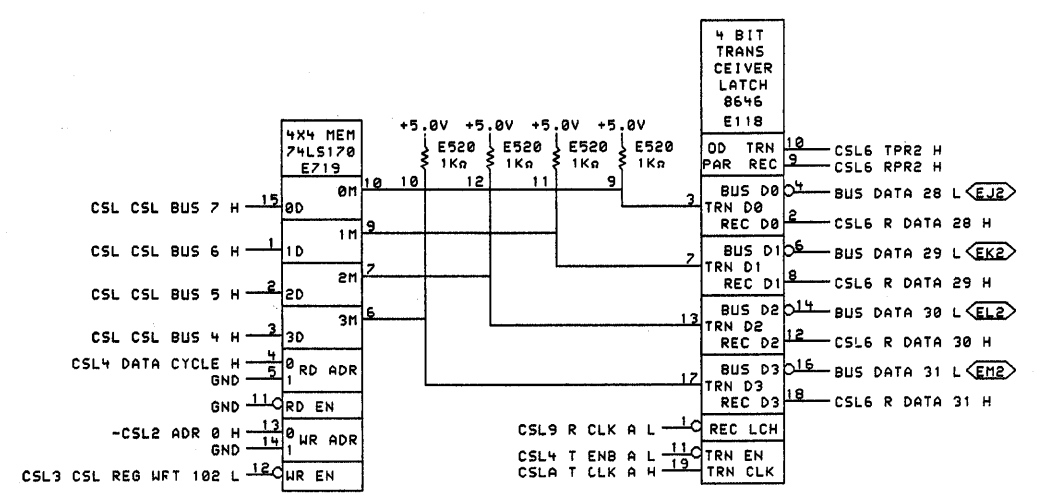
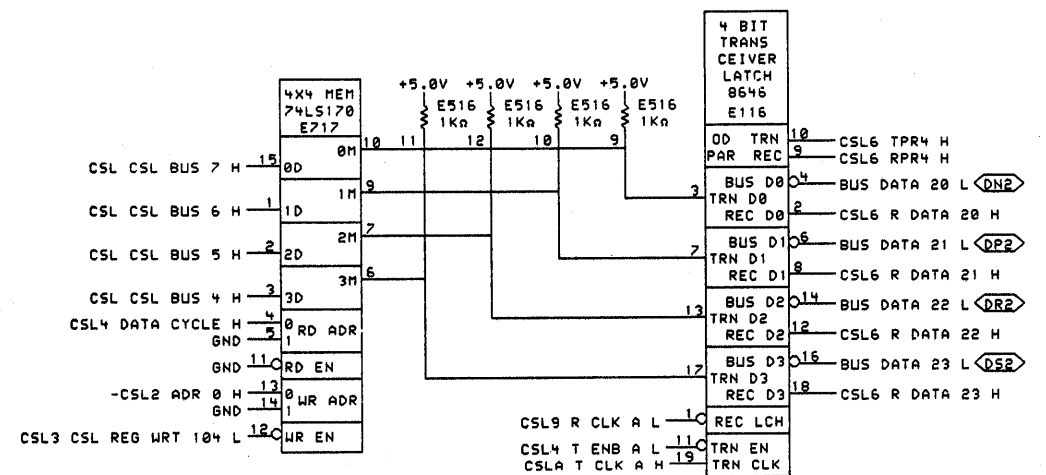
4

3

2

1

REV.	U	9753-0-91984	CS	D
SIZE	11	NUMBER	CODE	2215



SHEET 6 OF 12

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REVISIONS	
CHK	CHANGE NO. REV

digital	DRW. J. Loomis	DATE 20-APR-78	ENG. J. Loomis	DATE 20-APR-78	TITLE: CONSOLE & CONTROL DATA PATH 1
	CHK'D. J. Loomis	DATE 20-APR-78	BOARD LOCATION: 1AF18	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8616-0-CSL6 A
CSL6.DRW14.6611		NEXT HIGHER ASSEMBLY: B-DD-M8616-0		FIRST USED ON OPTION/MODEL: KS10	

8

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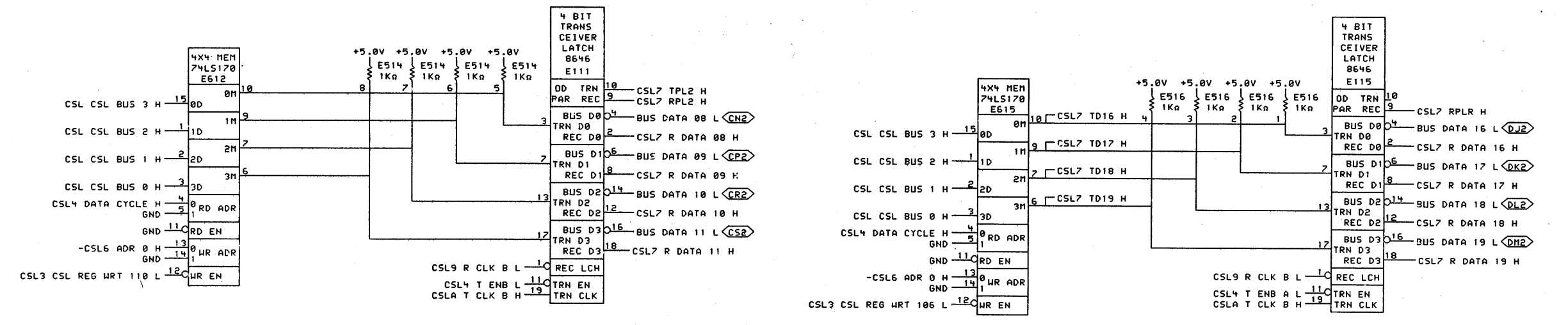
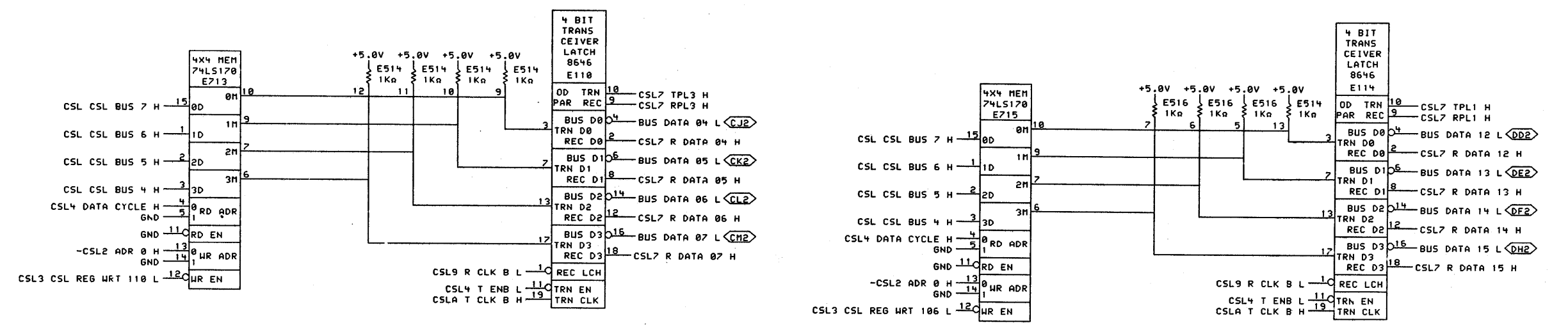
5

4

3

2

1



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REVISIONS		
CHK	CHANGE NO.	REV

	DRG. <i>J. J. J.</i>	DATE: 20-APR-78	ENG. <i>J. J. J.</i>	DATE: <i> </i>	TITLE: CONSOLE CONTROL DATA PATH 2
	CHK'D <i>J. J. J.</i>	DATE: 20-APR-78 07:12	BOARD LOCATION: 1AF18	SHEET 1 OF 1	
CSL7.DRM 4.6613	20-APR-78 07:12	NEXT HIGHER ASSEMBLY: KS10	B-DD-M8616-0	SIZE CODE: D CS	NUMBER: M8616-0-CSL7
FIRST USED ON OPTION/MODEL:				REV. A	

8

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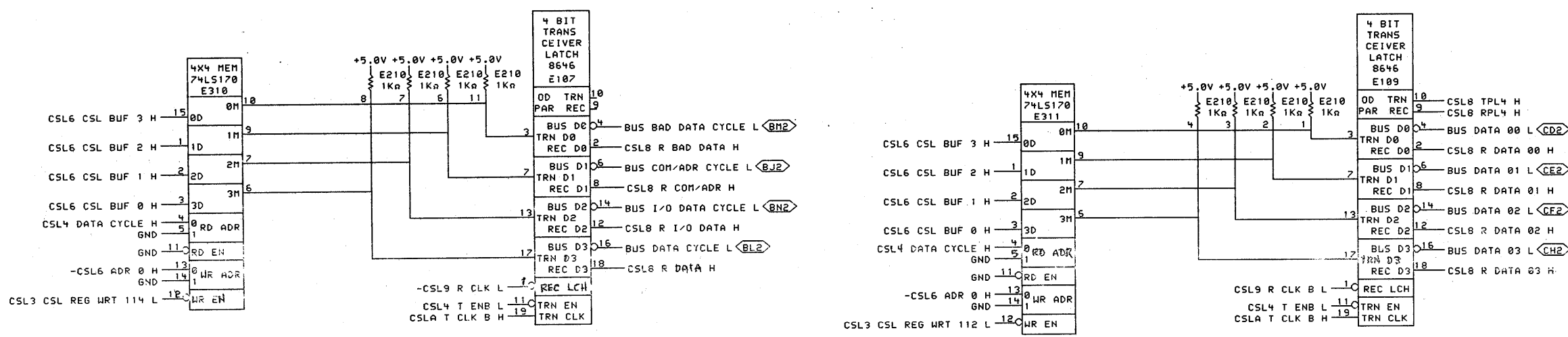
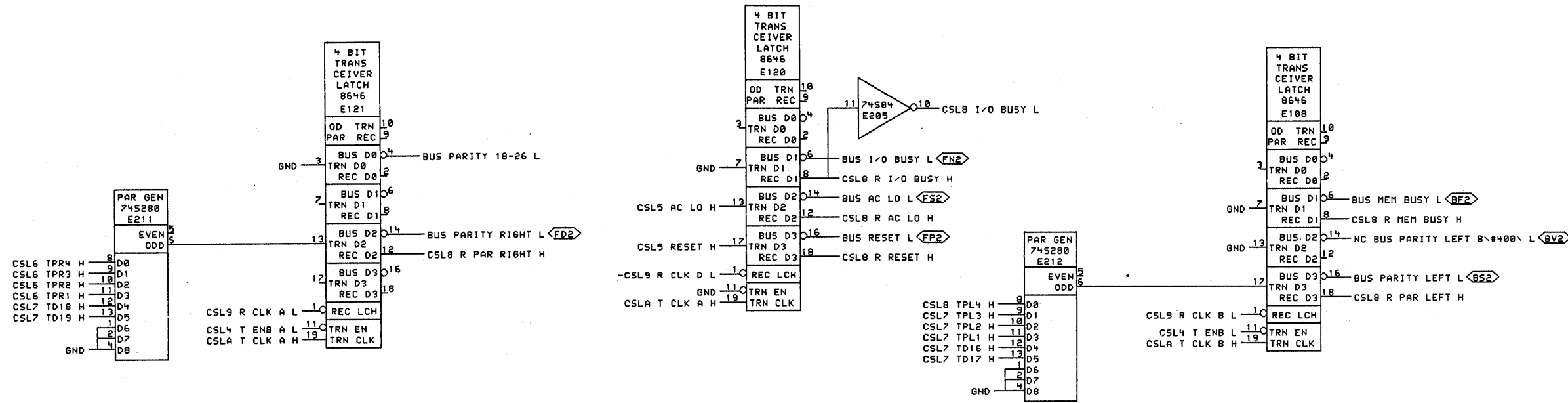
4

3

2

1

REV. A	CS	D	CS	18616-0-91984	SIZE CODE
NUMBER	18616-0-CSL8				



SHEET 8 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRW. J. J. J.	DATE 20-APR-78	ENG. T. C.	DATE 2-11-78	TITLE: CONSOLE CONTROL DATA PATH 3
	CHK'D	DATE	BOARD LOCATION: 1AF18	SHEET 1 OF 1	SIZE CODE D CS
CSL8.DRW(4,661)		20-APR-78 07:19	NEXT HIGHER ASSEMBLY: B-DD-M8616-0	NUMBER M8616-0-CSL8	REV. A
FIRST USED ON OPTION/MODEL: K510					

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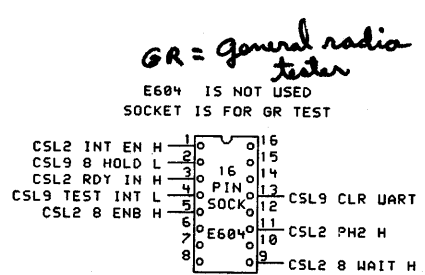
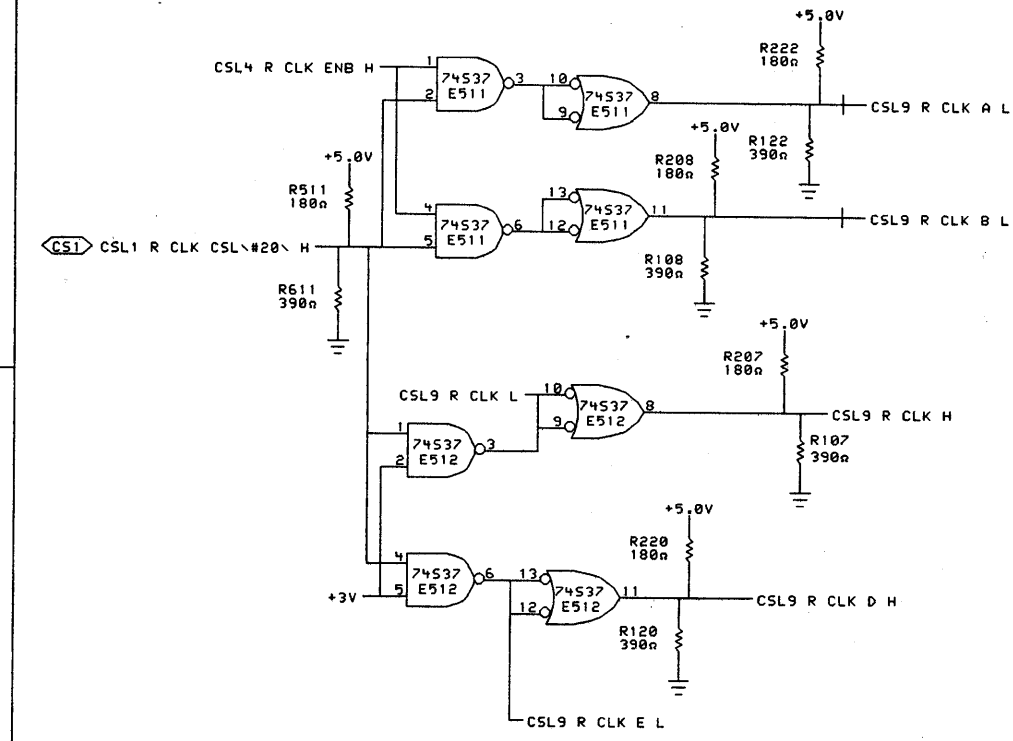
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2

1

REV. A  
NUMBER 18616-0-CSL8  
SIZE CODE D CS

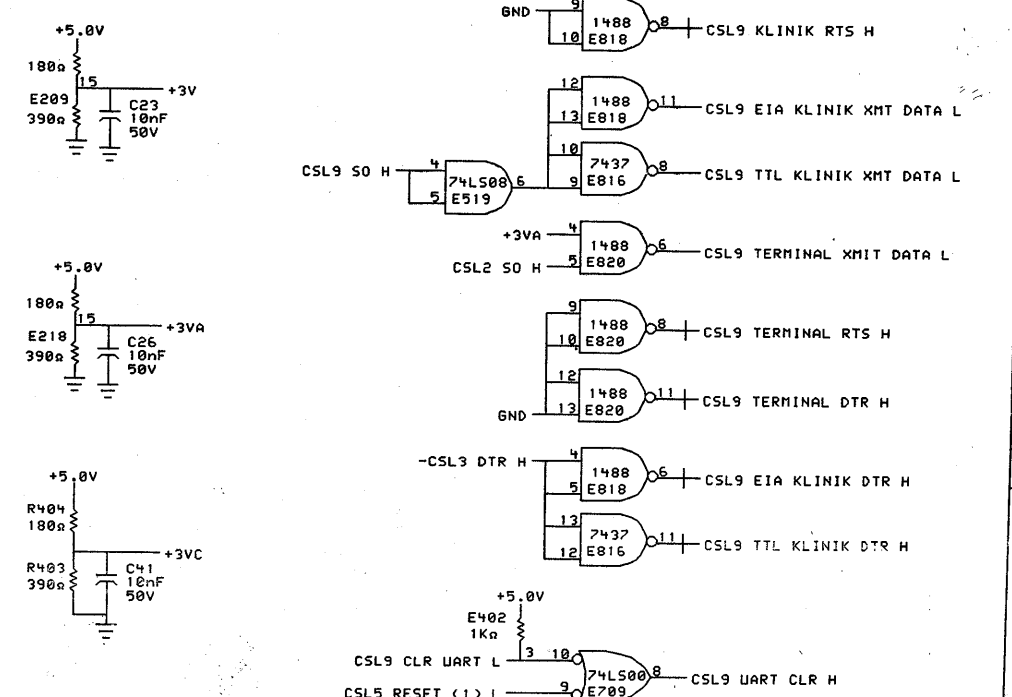
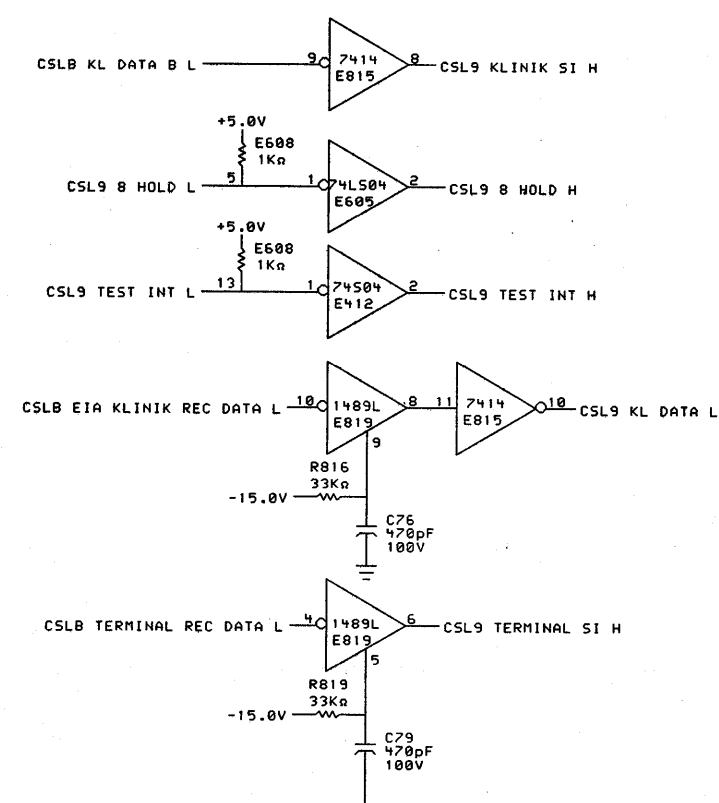
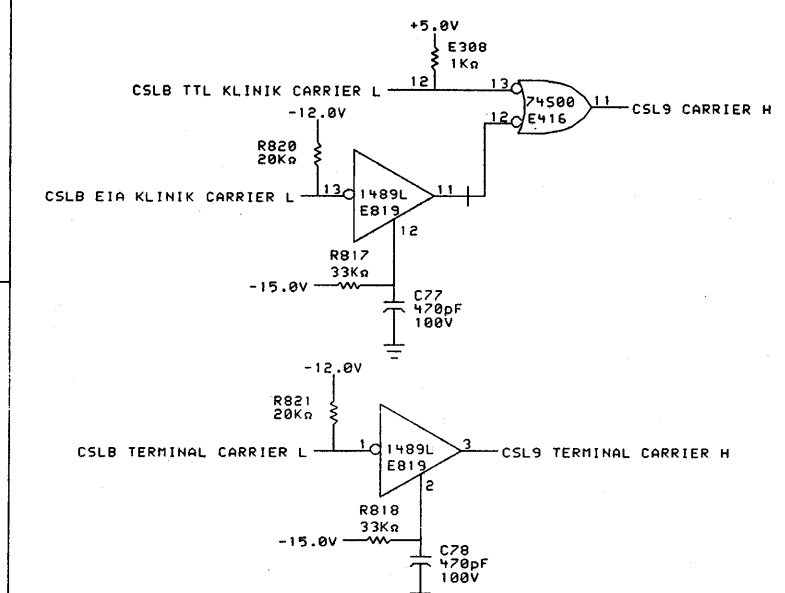
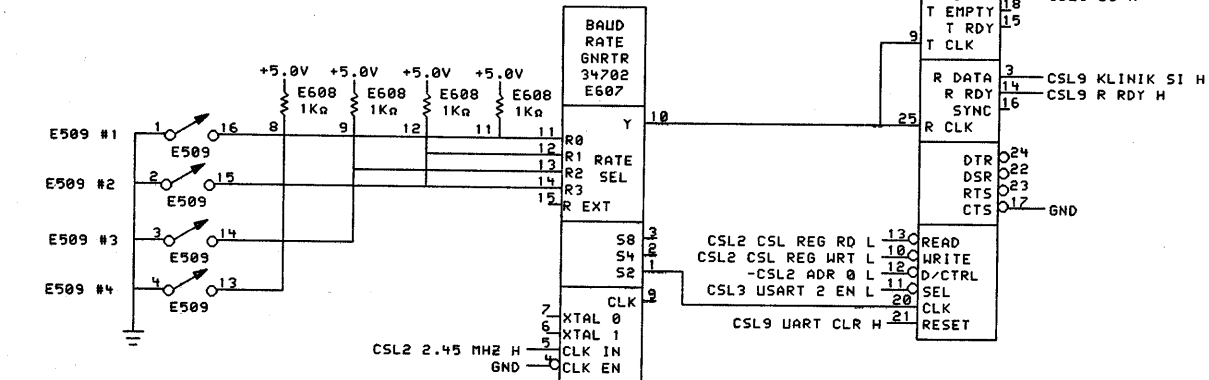




REMOTE DIAGNOSIS

BAUD RATE	E509 #1	E509 #2	E509 #3	E509 #4
110	OFF	OFF	OFF	OFF
150	OFF	OFF	OFF	ON
300	OFF	OFF	ON	OFF
600	ON	OFF	OFF	OFF
1200	OFF	ON	OFF	OFF
1800	OFF	ON	OFF	ON
2400	OFF	OFF	ON	ON
4800	OFF	ON	ON	OFF
9600	OFF	ON	ON	ON

\* NORMAL FACTORY SETTING



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REVISIONS

CHK	CHANGE NO.	REV

**digital** DRW. J. J. J. DATE 03-MAY-78 ENG. DATE 11-43

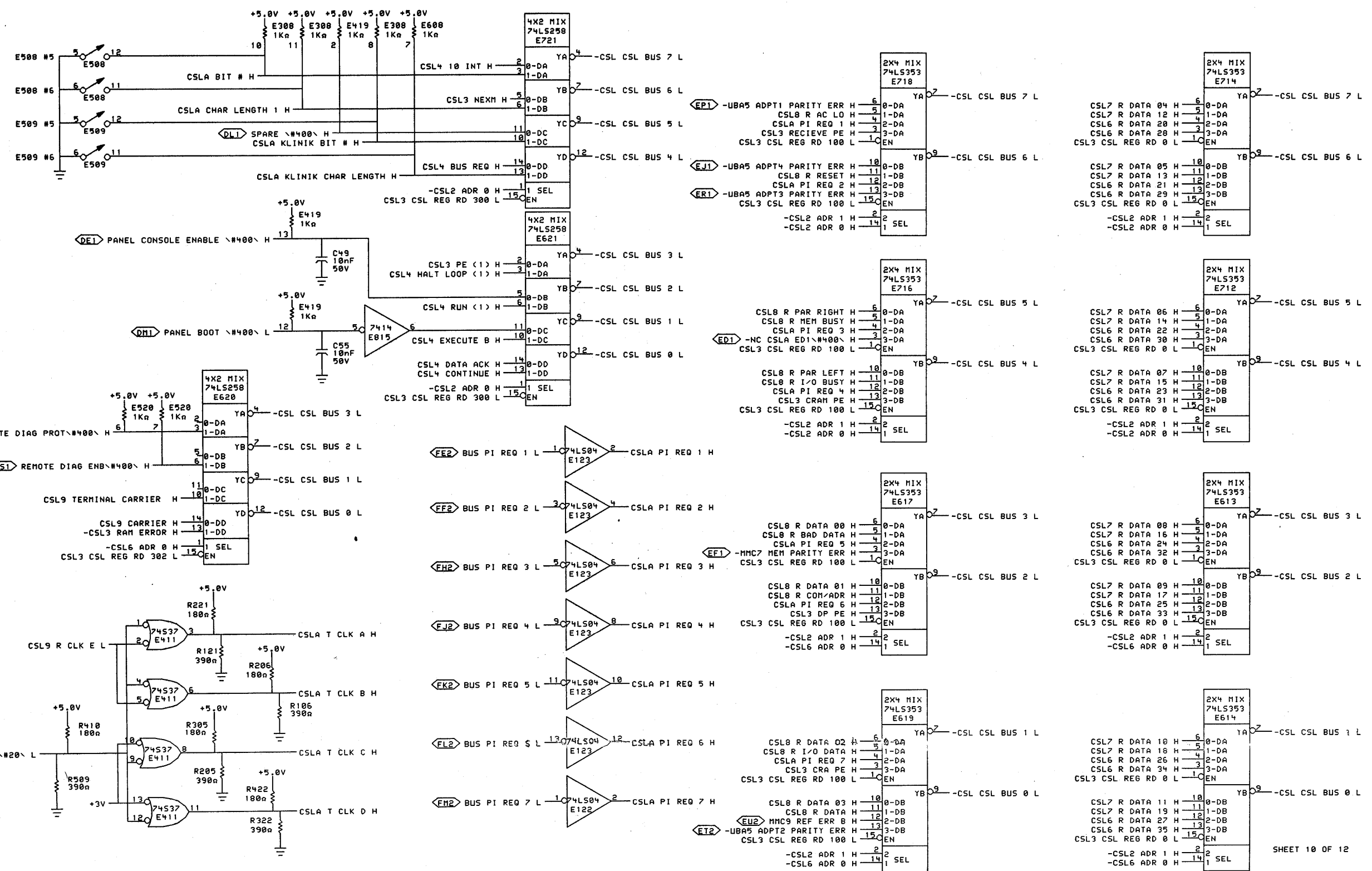
CHK'D DATE 11-43 BOARD LOCATION: 1A18 SHEET 1 OF 1

CSL9.DRW(4,661) 103-MAY-78 11:43 NEXT HIGHER ASSEMBLY: B-DD-M8616-0

FIRST USED ON OPTION/MODEL: K510

TITLE: CONSOLE & CONTROL KLINIK

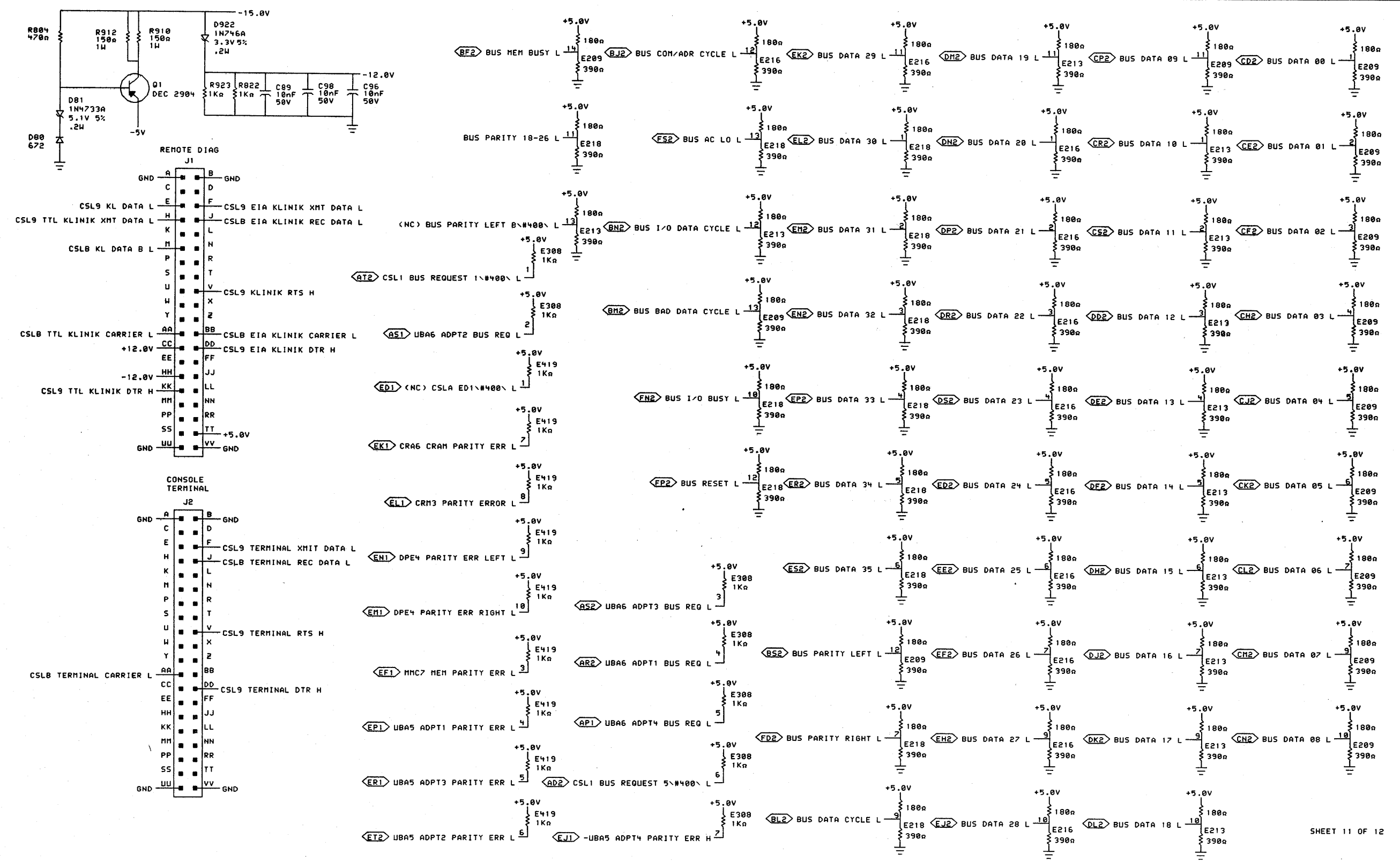
SIZE CODE NUMBER REV. D CS M8616-0-CSL9 A



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REVISIONS		
CHK	CHANGE NO.	REV

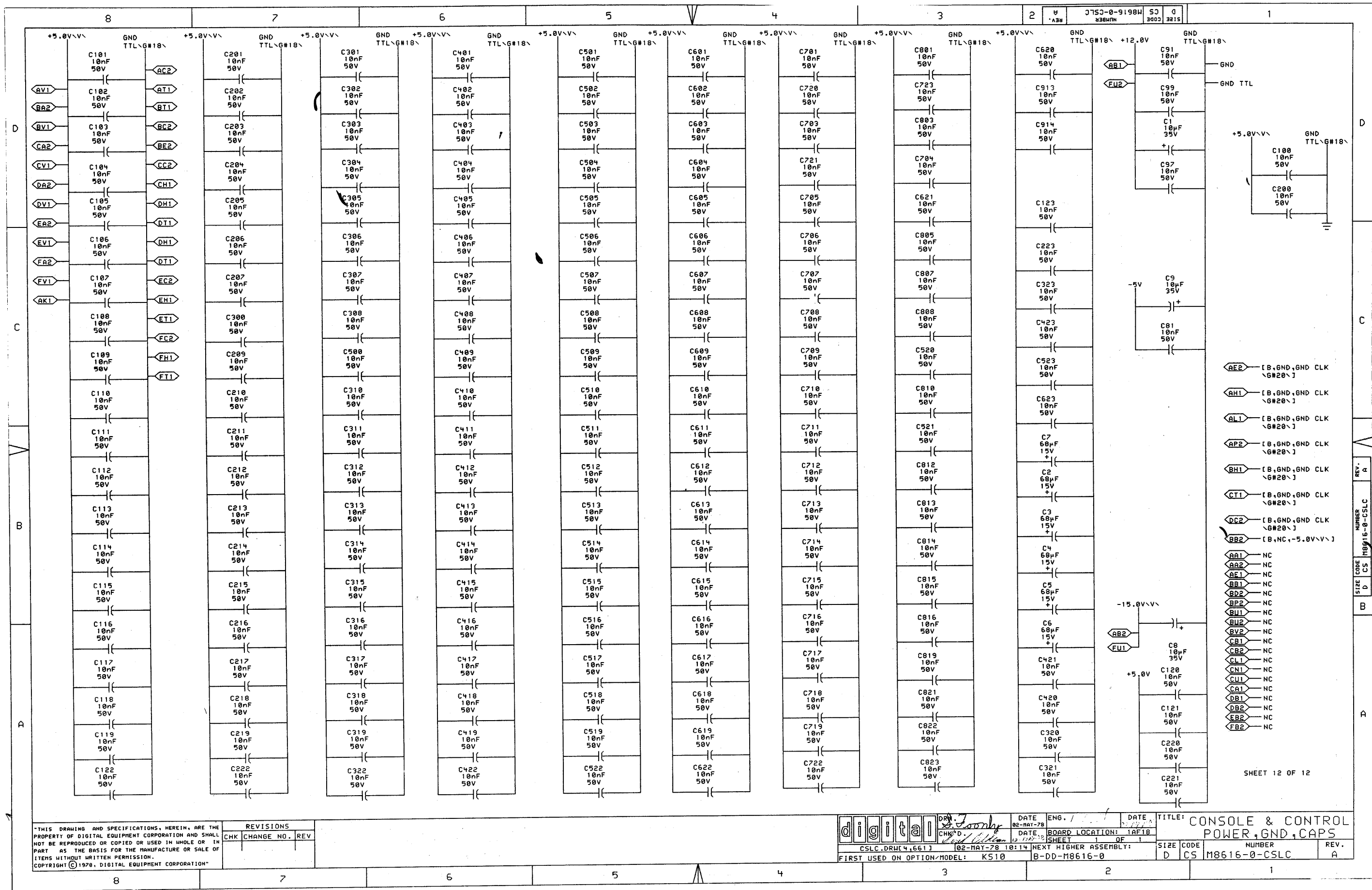
	DATE: 27-APR-78	ENG. <i>J. J. J.</i>	DATE: <i> </i>	TITLE: CONSOLE & CONTROL CPU CLK CONTROL
	DATE: 27-APR-78 08:59	BOARD LOCATION: 1AF18	SHEET: 1 OF 1	
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8616-0		
SIZE: D	CODE: CS	NUMBER: M8616-0-CSLA	REV.: A	



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REVISIONS		
CHK	CHANGE NO.	REV

<b>digital</b>	DATE: 02-MAY-78	ENG: J. C. P.	DATE: 02-MAY-78	TITLE: CONSOLE & CONTROL MISC
	CSLB-DRW4,6613	102-MAY-78 10:18	BOARD LOCATION: 1AF18	SIZE: D CS
	FIRST USED ON OPTION MODEL: KS10	B-DD-M8616-0	SHEET: 1 OF 1	NUMBER: M8616-0-CSLB



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REVISIONS		
CHK	CHANGE NO.	REV.

digital DRW: J. J. J. DATE: 02-MAY-78 ENG: DATE: TITLE: CONSULE & CONTROL POWER, GND, CAPS  
CHK'D: DATE: 12-MAY-78 BOARD LOCATION: 1AF18  
CSLC.DRW(4,661) 102-MAY-78 10:14 NEXT HIGHER ASSEMBLY: SHEET 12 OF 12  
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8616-0 SIZE CODE: D CS NUMBER: M8616-0-CSLC REV. A

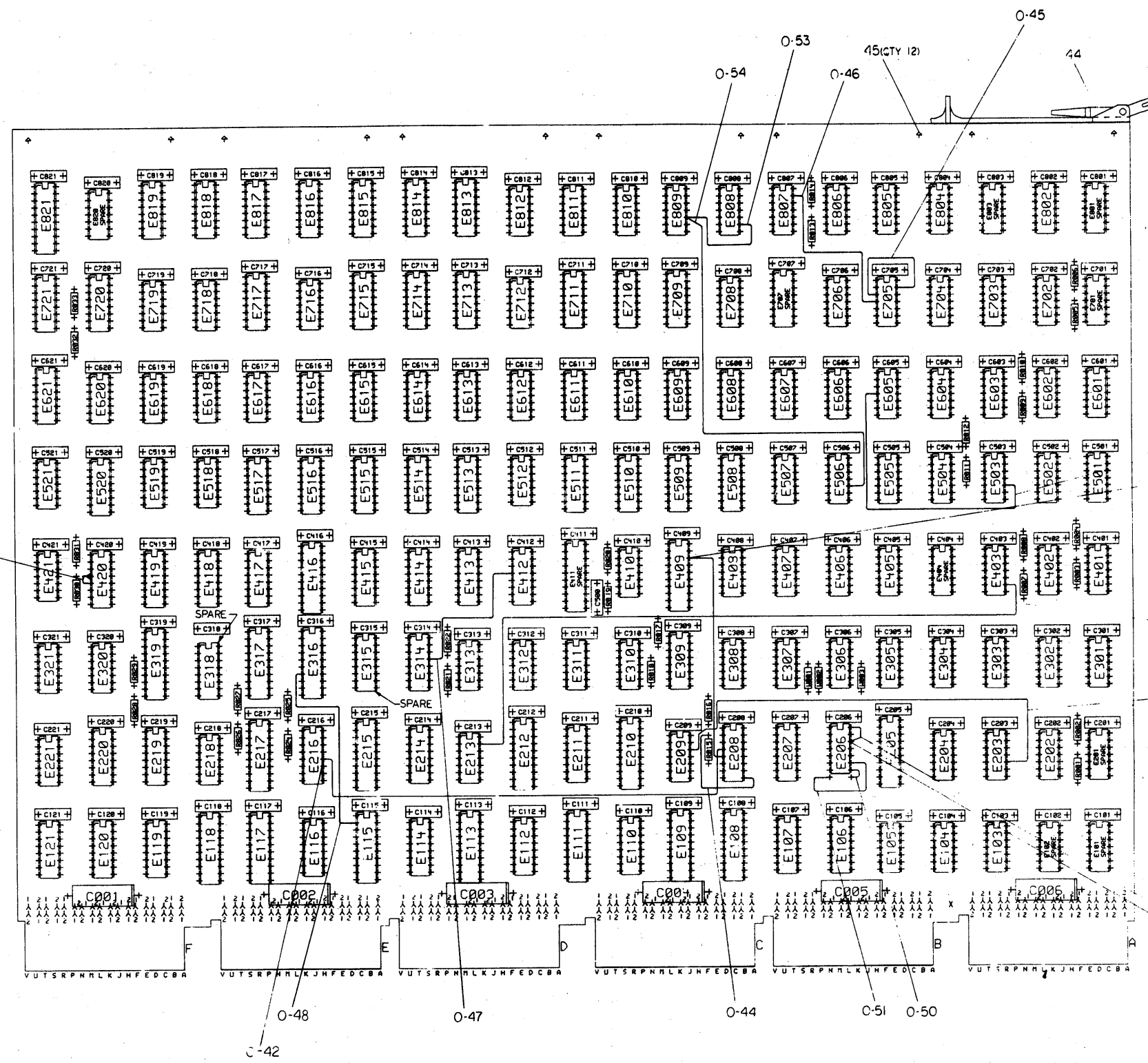
DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS													
			MODULE REVISION	A													
E-UA-M8618-Ø-Ø	7		MOS MEMORY CONTROL	A													
K-PL-M8618-Ø-DBP	2		PARTS LIST (M8618)	A													
D-CS-M8618-Ø-MMC1	1		MEMORY CONTROL, SMIØ BUS	A													
D-CS-M8618-Ø-MMC2	1		MEMORY CONTROL, ERROR CORRECTION	A													
D-CS-M8618-Ø-MMC3	1		MEMORY CONTROL, ADDRESS MUX	A													
D-CS-M8618-Ø-MMC4	1		MEMORY CONTROL, ECC GEN/CHK	A													
D-CS-M8618-Ø-MMC5	1		MEMORY CONTROL, ERROR CORRECTION	A													
D-CS-M8618-Ø-MMC6	1		MEMORY CONTROL, MOS DATA	A													
D-CS-M8618-Ø-MMC7	1		MEMORY CONTROL, OUPUT MIX	A													
D-CS-M8618-Ø-MMC8	1		MEMORY CONTROL, ADDRESS MATCH	A													
D-CS-M8618-Ø-MMC9	1		MEMORY CONTROL, REFRESH LOGIC	A													
D-CS-M8618-Ø-MMCA	1		MEMORY CONTROL, CYCLE LOGIC	A													
D-CS-M8618-Ø-MMCB	1		MEMORY CONTROL, WRITE LOGIC	A													
D-CS-M8618-Ø-MMCC	1		MEMORY CONTROL, CLOCKS	A													
D-CS-M8618-Ø-MMCD	1		MEMORY CONTROL, POWER GND, CAPS	A													
E-MD-5013193-0-0	7		DRILL, WIRE & COMP SCREEN DRAWING	A													
	-	5013193	MULTIWIRE BOARD	A													
K-PC-M8618-Ø-DBC	1		MULTIWIRE DATA BASE	A													
POO-M8618-ØØ	-		PROCESS SHEETS	REF													

**NOTES:**

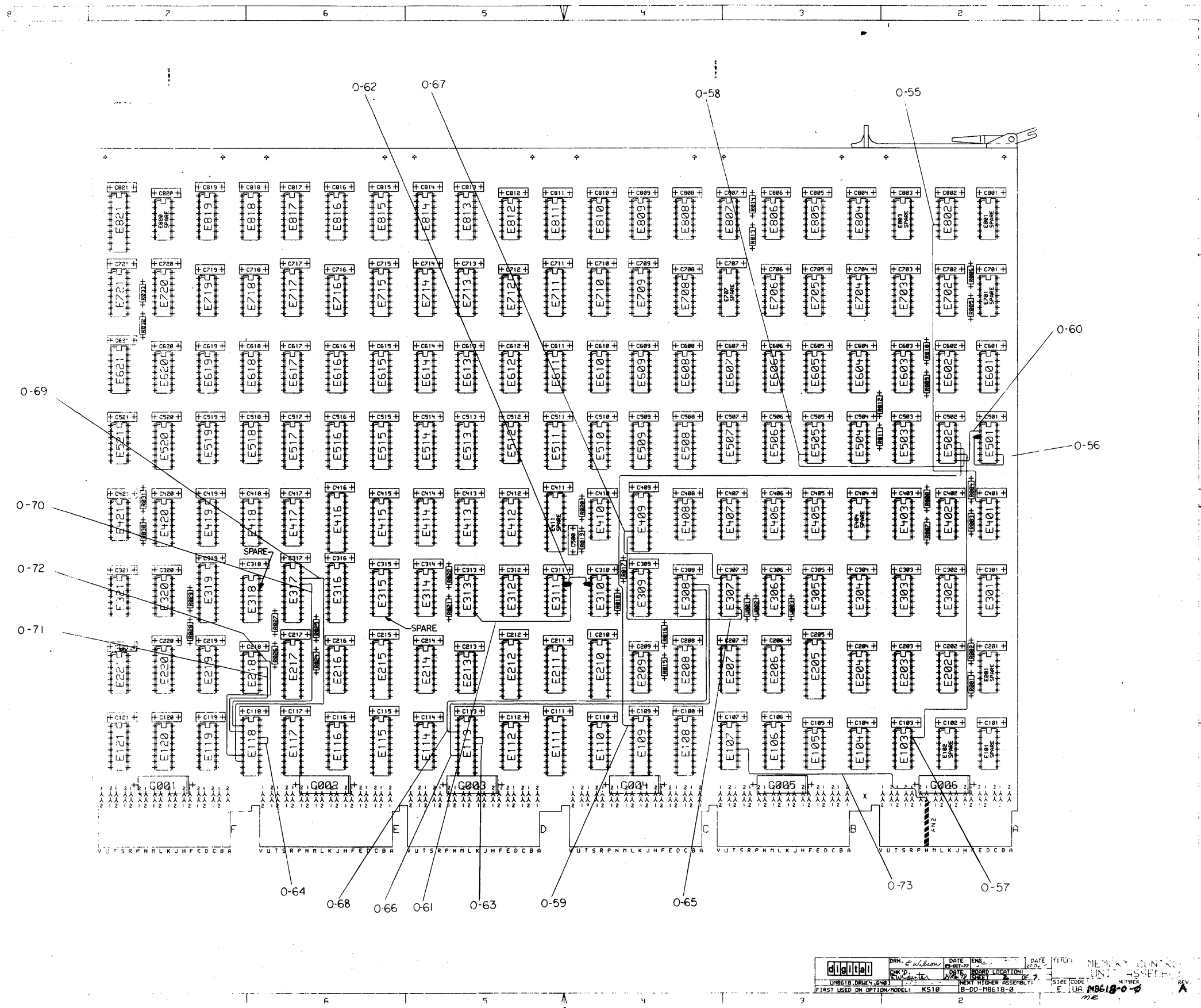
REV. X	ORIG X

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		K51Ø	CHK'D	130pR	SIZE	DD	NUMBER	M8618-Ø
			ENG.	20-APR-78	SHEET 1 OF 1			
			PROD	20Apr78				

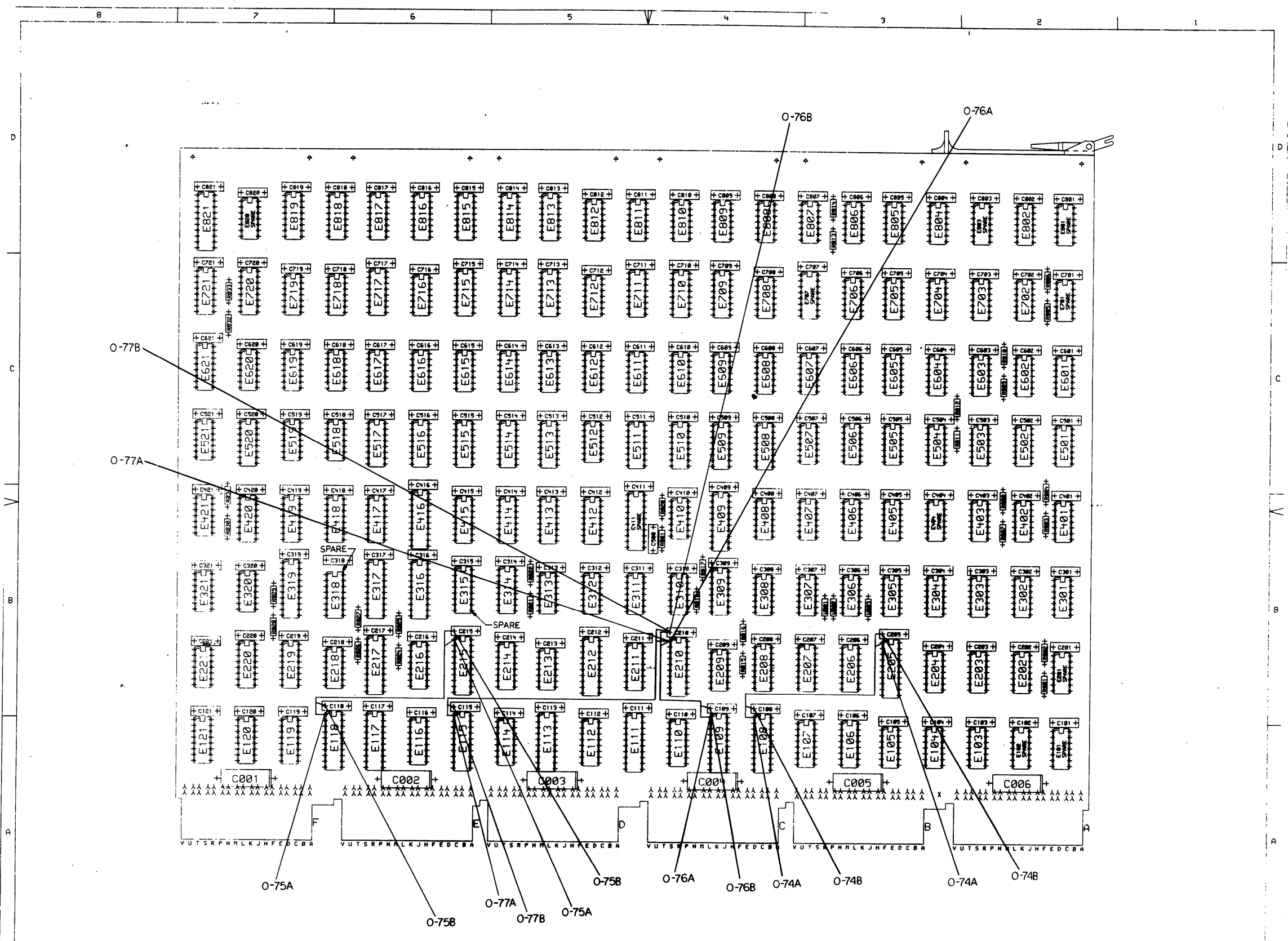
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REV	DATE	BY	DATE	FILE	MEMORY CONTROL UNIT ASSEMBLY
1	11-27-77	...	...	...	...
FIRST USED ON OPTION/MODEL: K519					
DATE: 11-27-77					
BY: ...					
FILE: ...					
REV: A					



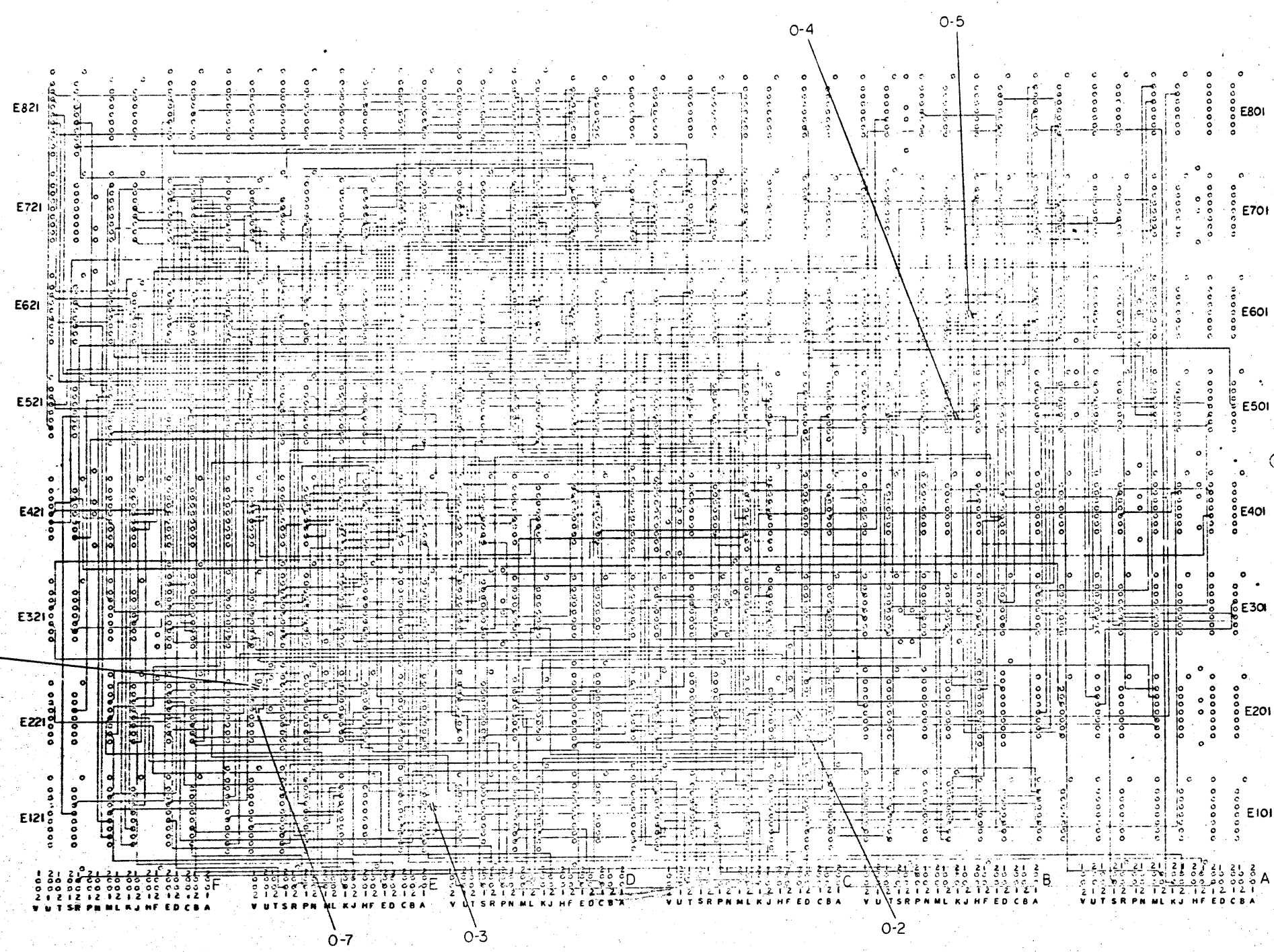
digital  
 DRN: *C. Wilson* DATE: *20/1/79* ENG: *1* DATE: *20/1/79* TITLE: *MEMORY CONTROL UNIT - ASSEMBLY*  
 DESIGNED BY: *C. Wilson* DRAWN BY: *C. Wilson* CHECKED BY: *C. Wilson* BOARD LOCATION: *7* STATE CODE: *UA*  
 FIRST USED ON OPTION MODEL: *K510* B-DD-M8618-0 E: *UA* **M8618-0-0**



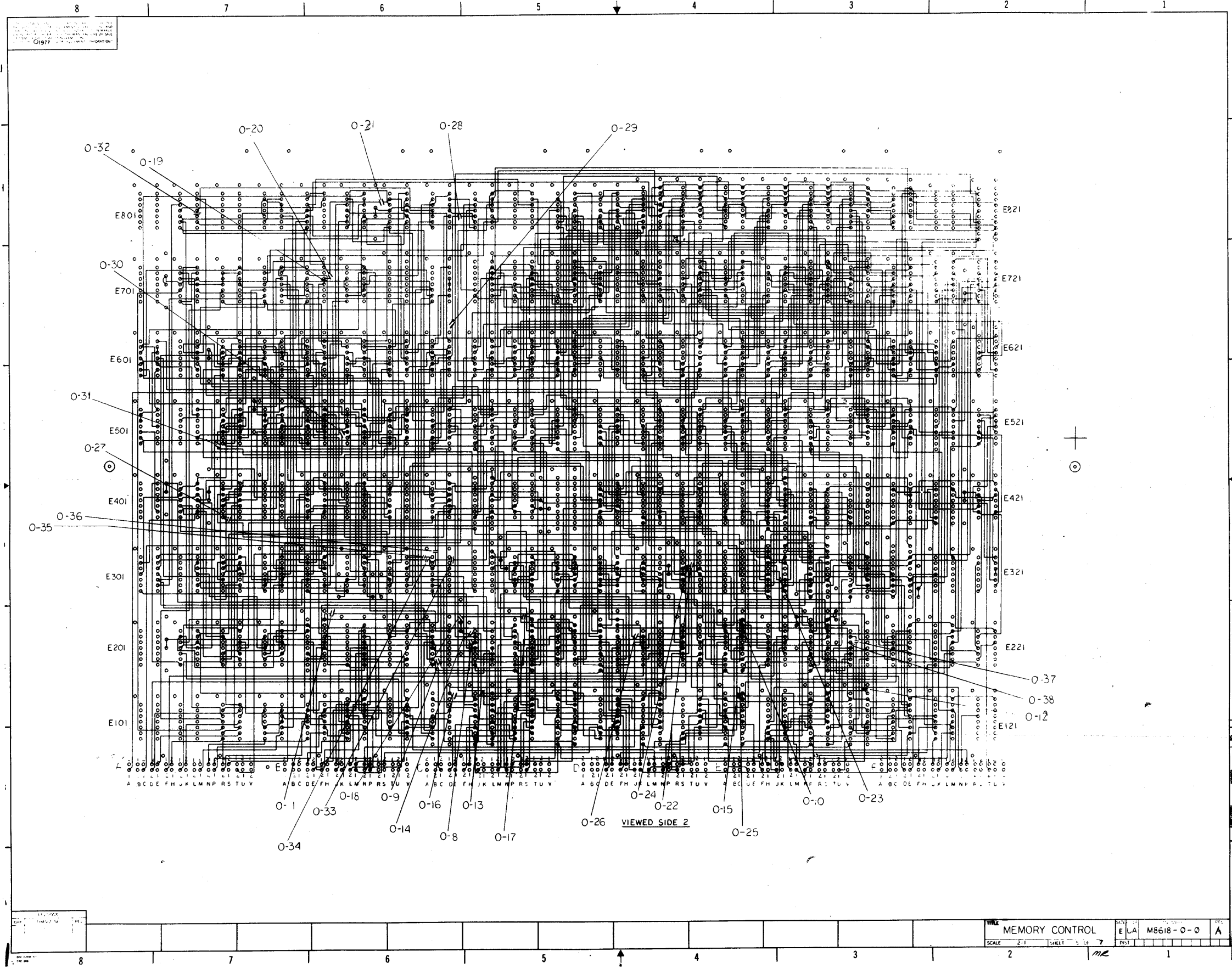
DATE	10-1-72	DATE	10-1-72	TITLE	MEMORY CONTROL UNIT ASSEMBLY
BY	...	BY	...	STEEL CODE	...
CHKD	...	CHKD	...	NUMBER	...
REV.	...	REV.	...	REV.	...

FIRST USED ON CP-1000 MODEL - K519  
 B-00-10618-0

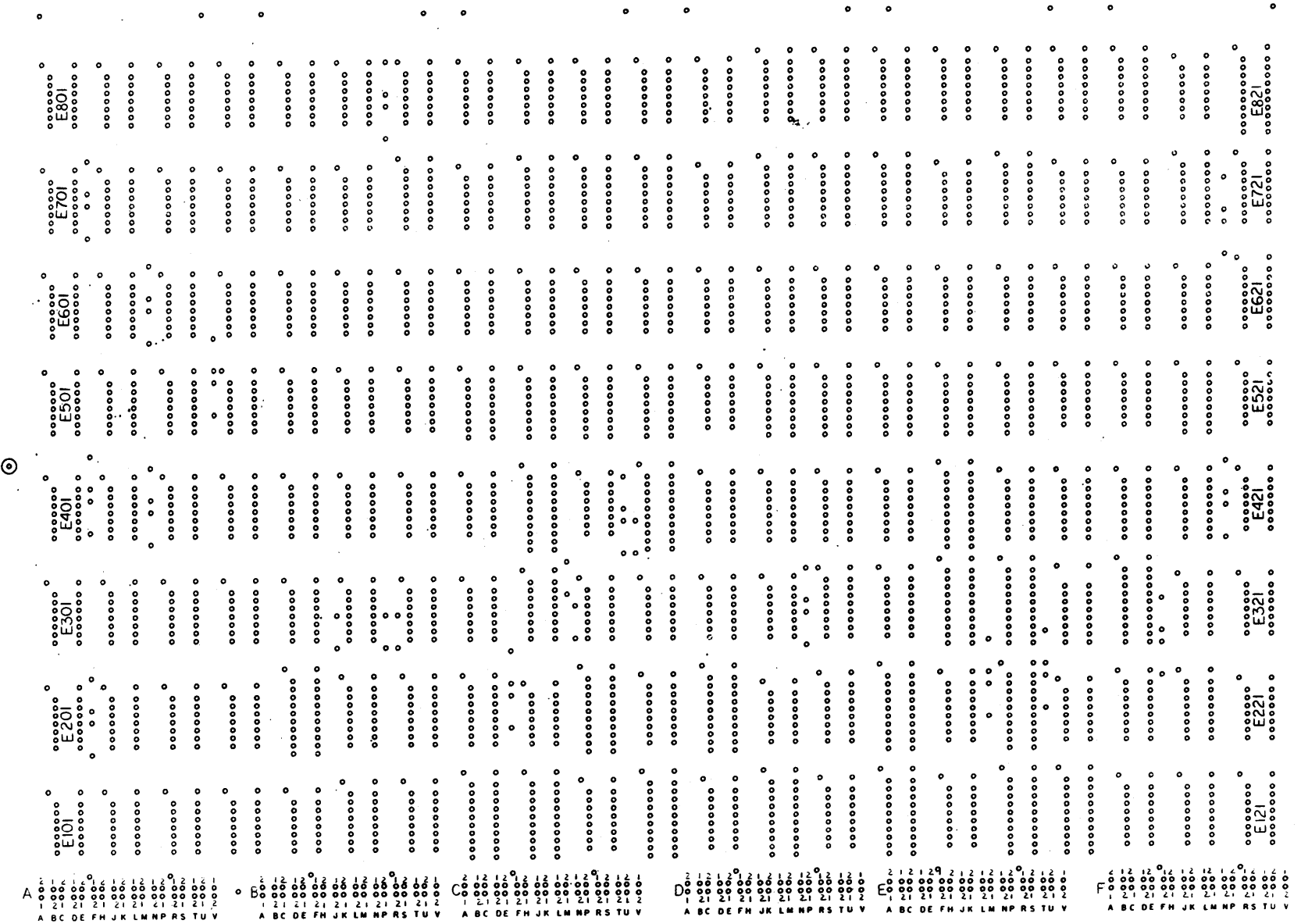




VIEWED SIDE 1



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A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 B 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 D 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 E 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 F 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

VIEWED SIDE 2

REVISIONS		
DATE	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
MEMORY CONTROL		E	JA	M8618-0-0	A
SCALE	SHEET	OF	7		
2/1	6	7	ME		

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NOTES:  
 1. FOR DRAWING DIRECTORY, REFER TO : B-DD-M8618-0  
 2. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING PIN NUMBERS APPLY:  
 PACKAGE TYPE 14V GND  
 PIN NUMBER 17 7  
 14 PIN DIP 16 0  
 I.C. DEC 8640 26 5/15  
 I.C. DEC 74LS377 20 7/8  
 3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON  
 4. MAXIMUM COMPONENT HEIGHT IS .278  
 5. MAXIMUM COMPONENT LEAD PROTRUSION IS .047  
 6. FINISHED HOLE SIZES ARE .125 INCHES  
 + = .037 ± .003  
 - = .133 ± .002  
 X = .100 ± .003  
 A = .025 ± .003, -.006

REWORK INSTRUCTIONS

FIRST RELEASE

COMPONENT DELETES, SIDE #1, AS SHOWN  
 Q-1 CU-OFF E206 (12) AND REMOVE FROM BOARD

ETCH CUTS, SIDE #1, AS SHOWN  
 Q-2 AT E208 (5)  
 Q-3 AT ECH RUNNING BETWEEN E115 (16) & (17)  
 Q-4 AT E506 (10)  
 Q-5 AT E505 (4)  
 Q-6 AT ECH ABOVE AND TO THE RIGHT OF E218 (14)  
 Q-7 AT E218 (12)

ETCH CUTS, SIDE #2, AS SHOWN  
 Q-8 AT E209 (12)  
 Q-9 AT E208 (9)  
 Q-10 AT E215 (1)  
 Q-11 AT E205 (1)  
 Q-12 AT E18 (1)  
 Q-13 AT E109 (1)  
 Q-14 AT ECH RUNNING BETWEEN E208 (13) & (14)  
 Q-15 AT E15 (1)  
 Q-16 AT E108 (1)  
 Q-17 AT E210 (1)  
 Q-18 AT PTH ABOVE AND TO THE RIGHT OF E208 (1)  
 Q-19 AT E705 (4)  
 Q-20 AT E705 (3)  
 Q-21 AT E807 (13)  
 Q-22 AT E314 (13)  
 Q-23 AT E314 (7)  
 Q-24 AT E315 (3)  
 Q-25 AT E115 (2)  
 Q-26 AT E213 (13)  
 Q-27 AT E403 (8)  
 Q-28 AT E801 (8)  
 Q-29 AT ECH ABOVE AND TO THE RIGHT OF E608 (1)  
 Q-30 AT E504 (10)  
 Q-31 AT SECOND ETCH TO THE LEFT OF E503 (8)  
 Q-32 AT E802 (5)  
 Q-33 AT ECH RUNNING BETWEEN E308 (1) & (2)  
 Q-34 AT E308 (2)  
 Q-35 AT ECH TO THE LEFT OF E308 (14)  
 Q-36 AT ECH ABOVE AND TO THE RIGHT OF E308 (14)  
 Q-37 AT E218 (13)  
 Q-38 AT E218 (12)

WIRE ADDS, SIDE #1, AS SHOWN:  
 Q-39 FROM E403 (9) TO E213 (13)  
 Q-40 FROM E209 (12) TO E205 (10)  
 Q-41 FROM E206 (14) TO PTH OF E206 (12)  
 Q-42 FROM E216 (12) TO E208 (4)  
 Q-43 FROM E409 (18) TO E208 (5)  
 Q-44 FROM E208 (9) TO TOP LEAD OF R15  
 Q-45 FROM E705 (3) TO E705 (13)  
 Q-46 FROM E807 (13) TO E705 (4)  
 Q-47 FROM E314 (13) TO E412 (4)  
 Q-48 FROM E115 (2) TO E316 (7)  
 Q-49 LIFT LEG E420 (4) AND ADD WIRE FROM LEG TO E420 (5)  
 Q-50 FROM E206 (8) TO PTH BELOW E206 (8)  
 Q-51 FROM E206 (9) TO PTH BELOW E206 (7)  
 Q-52 FROM E605 (4) TO E503 (10)  
 Q-53 FROM E802 (9) TO E809 (18)  
 Q-54 FROM E801 (8) TO E506 (10)  
 Q-55 FROM E802 (5) TO E401 (1)  
 Q-56 LIFT LEG OF E501 (3) AND ADD WIRE FROM LEG TO E501 (9)  
 Q-57 FROM E502 (9) TO E103 (13)  
 Q-58 FROM E502 (10) TO E505 (6)  
 Q-59 FROM E502 (11) TO E109 (2)  
 Q-60 FROM E502 (8) TO E501 (2)  
 Q-61 LIFT LEG OF E311 (13) AND ADD WIRE FROM LEG TO E313 (8)  
 Q-62 LIFT LEG OF E310 (2) AND ADD WIRE FROM LEG TO LEG OF E311 (13)  
 Q-63 FROM E113 (17) TO E113 (16)  
 Q-64 FROM E118 (17) TO E118 (14)  
 Q-65 FROM E307 (9) TO E409 (8)  
 Q-66 FROM E308 (3) TO E113 (7)  
 Q-67 FROM E307 (1) TO E407 (7)  
 Q-68 FROM E308 (2) TO E113 (3)  
 Q-69 FROM E118 (8) TO E317 (18)  
 Q-70 FROM E118 (2) TO E317 (17)  
 Q-71 FROM E218 (12) TO E118 (3)  
 Q-72 FROM E218 (13) TO E118 (7)  
 Q-73 FROM E107 (12) TO PTH OF FINGER PIN AN2

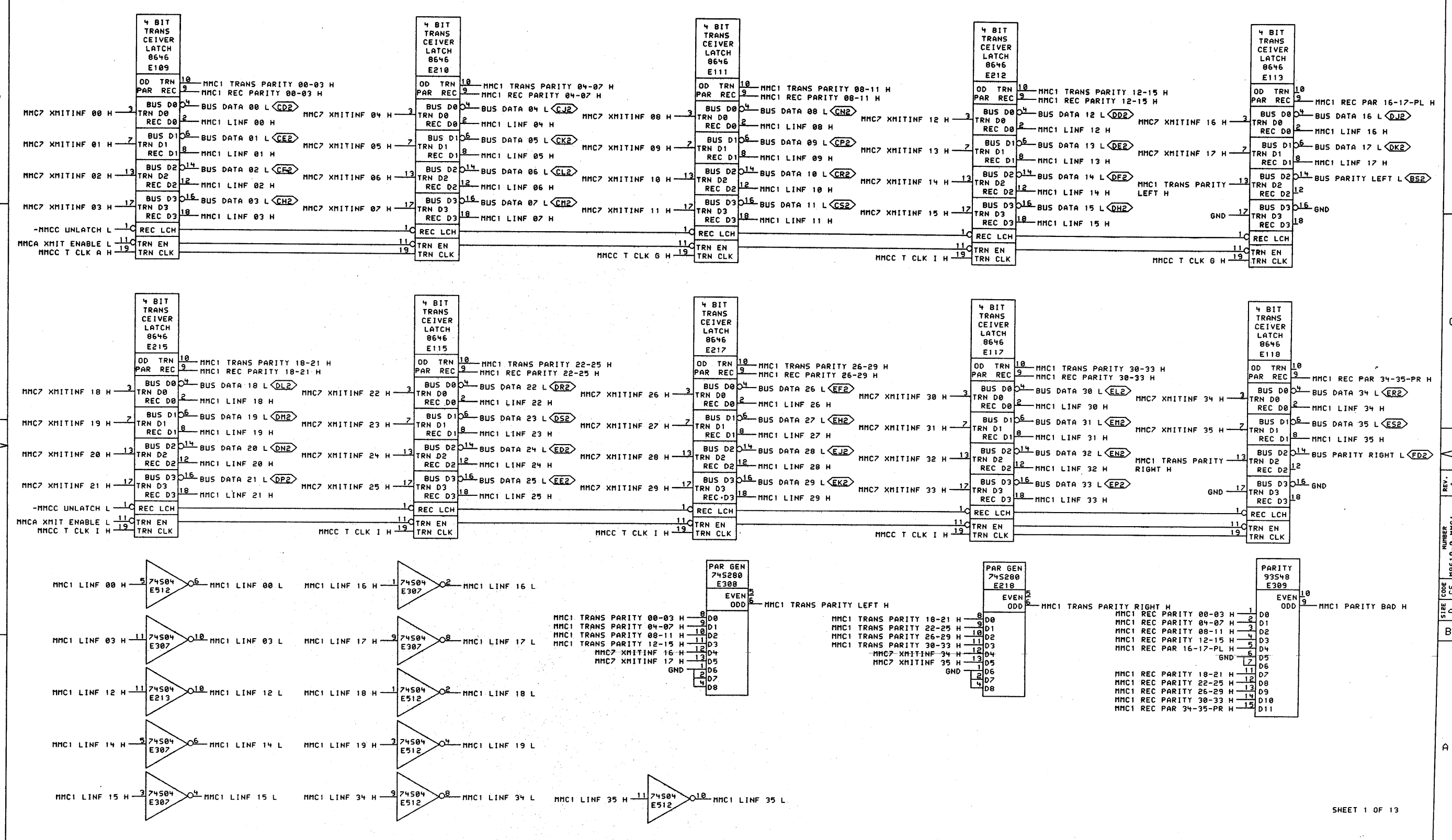
SHT 1 OF 6

SHT 2 OF 6

SHT 3 OF 6

TWISTED PAIR WIRE ADDS, SIDE #1, AS SHOWN:  
 Q-74 A. WHI FROM E108 (1) TO E205 (1)  
 B. GRN FROM LEFT LEG OF C108 TO LEFT LEG OF C215  
 Q-75 A. WHI FROM E118 (1) TO E215 (1)  
 B. GRN FROM LEFT LEG OF C118 TO LEFT LEG OF C215  
 Q-76 A. WHI FROM E218 (1) TO E109 (1)  
 B. GRN FROM LEFT LEG C210 TO LEFT LEG OF C109  
 Q-77 A. WHI FROM E218 (1) TO E115 (1)  
 B. GRN FROM LEFT LEG OF C210 TO LEFT LEG OF C115

REVISIONS		
DATE	CHANGE NO.	REV.



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN: J. J. J. DATE: 12-APR-78

CHK'D: DATE: 12-APR-78

DATE: 12-APR-78

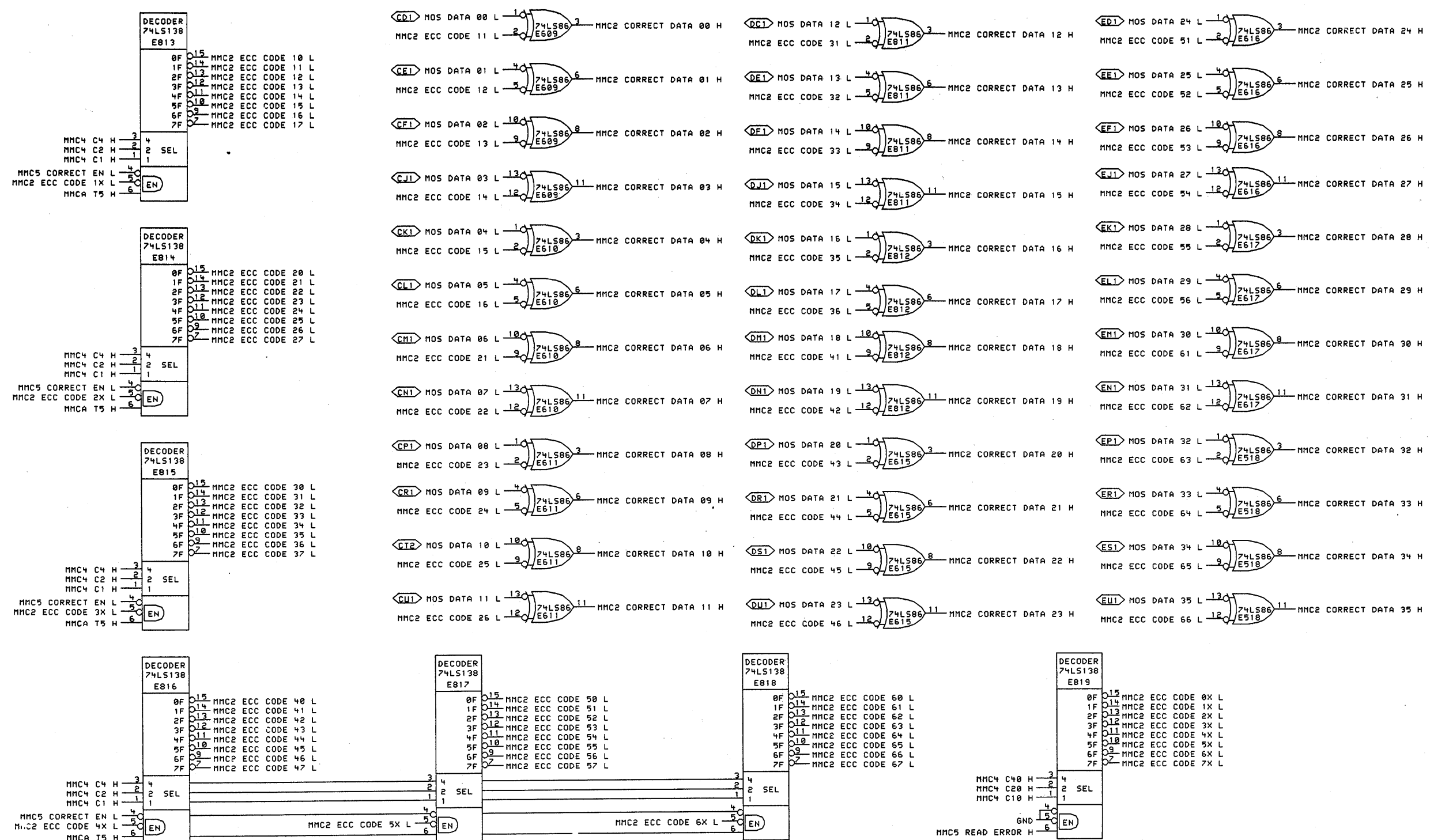
BOARD LOCATION: IAF09

SHEET 1 OF 1

TITLE: MEMORY CONTROL SM10 BUS

MMCC.DRM(4,647) 12-APR-78 13:32 NEXT HIGHER ASSEMBLY: B-DD-M8618-0

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC1	A

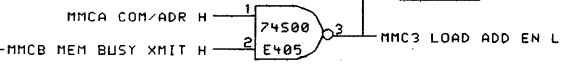
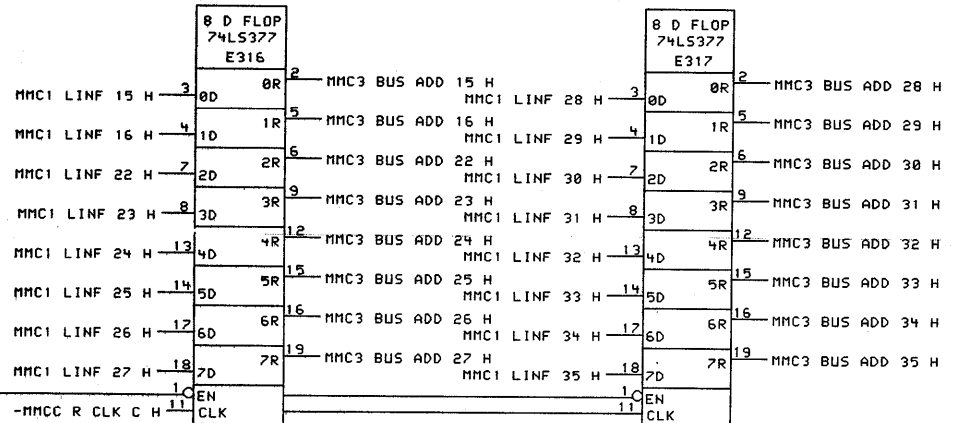
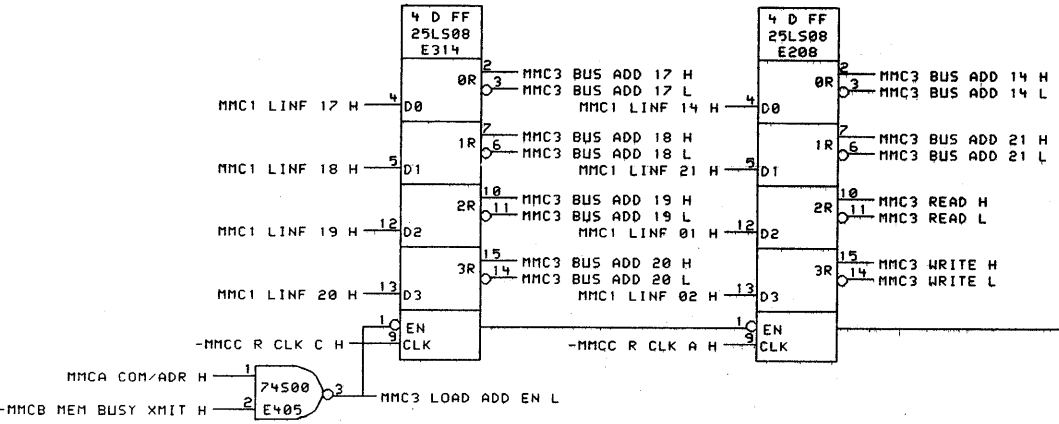
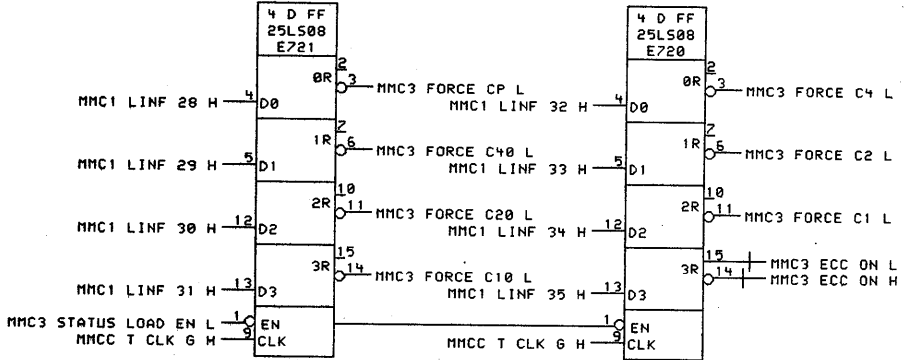
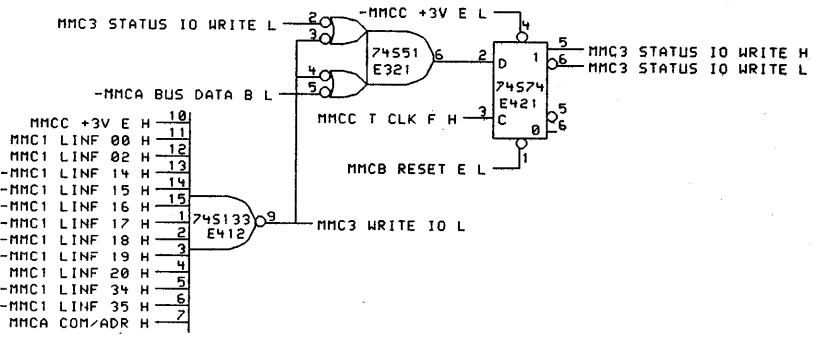
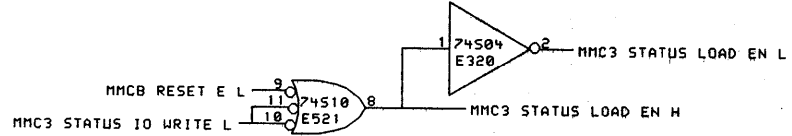
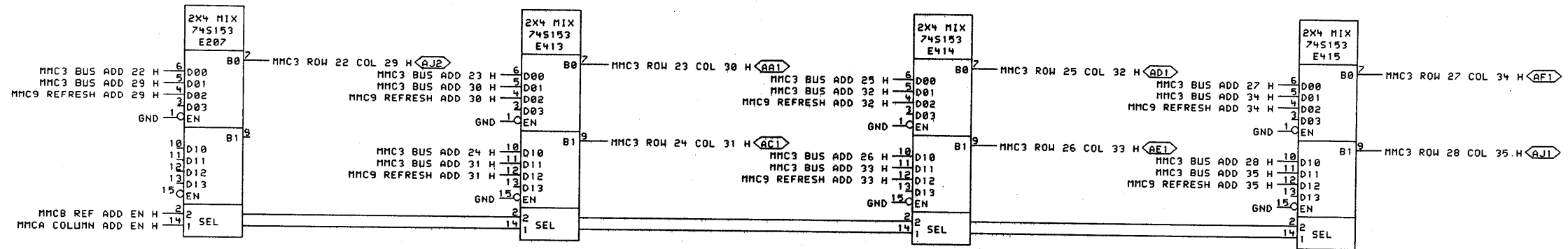


SHEET 2 OF 13

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REVISIONS	
CHK	CHANGE NO. REV

	DATE	12-APR-78	ENG	1024%	DATE	20-APR-78	TITLE	MEMORY CONTROL ERROR CORRECTION	
	CHK'D	12-APR-78	DATE	12-APR-78	BOARD LOCATION	1AF09	SIZE	CODE	
MMC2.DRW(4,647)	12-APR-78 13:34	NEXT HIGHER ASSEMBLY:	B-DD-M8618-0	SHEET	1	OF	1	NUMBER	M8618-0-MMC2
FIRST USED ON OPTION/MODEL:	K510	REV.	A	CS	D	CS	M8618-0-MMC2	REV.	A

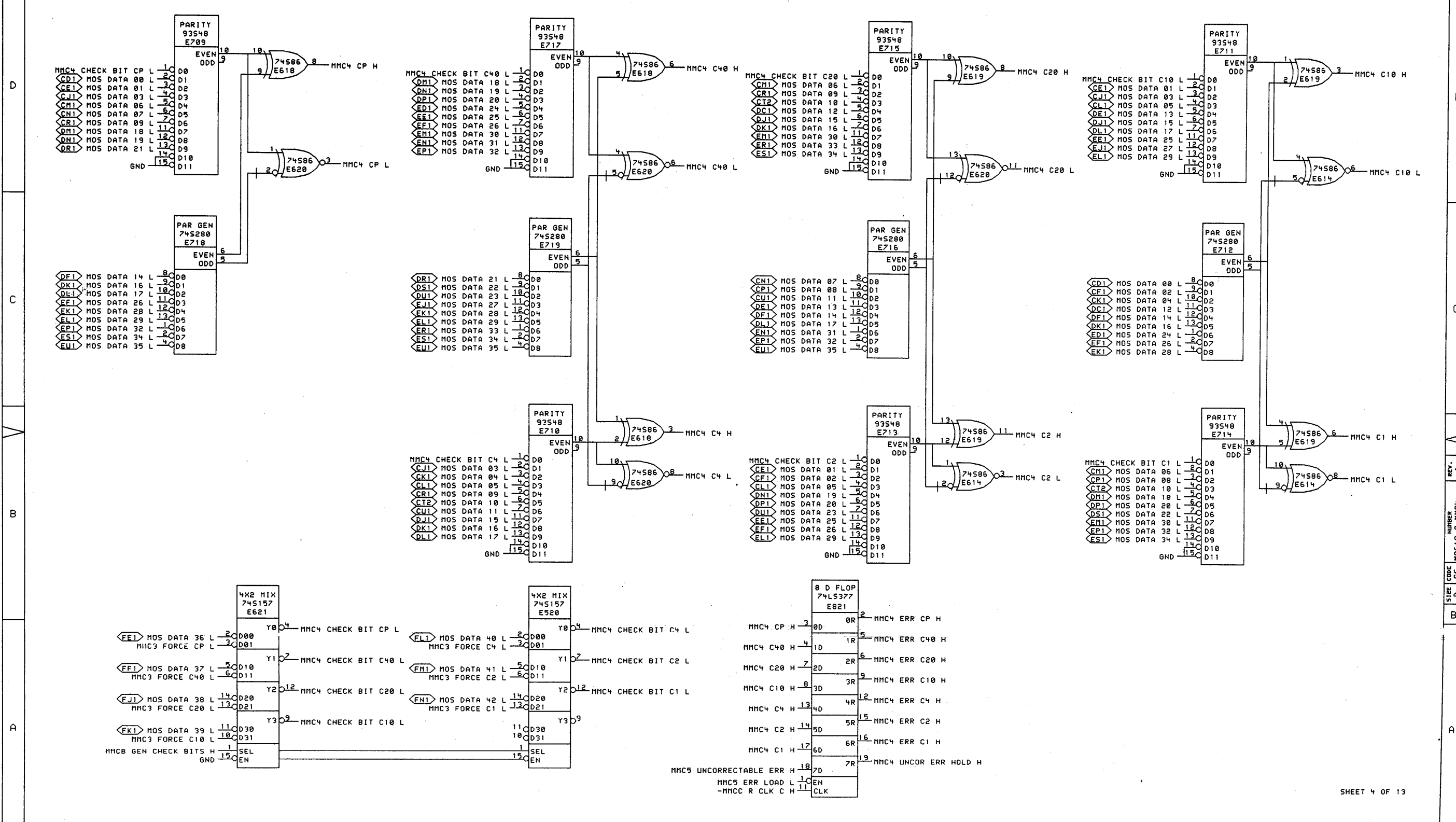


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REVISIONS	
CHK	CHANGE NO. REV

DATE	ENG.	DATE	TITLE:
12-APR-78	<i>J. Looney</i>	12-APR-78	MEMORY CONTROL ADDRESS MUX
DATE	BOARD LOCATION:	SHEET	OF
12-APR-78 13:35	1AF09	1	1
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8618-0	

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC3	A



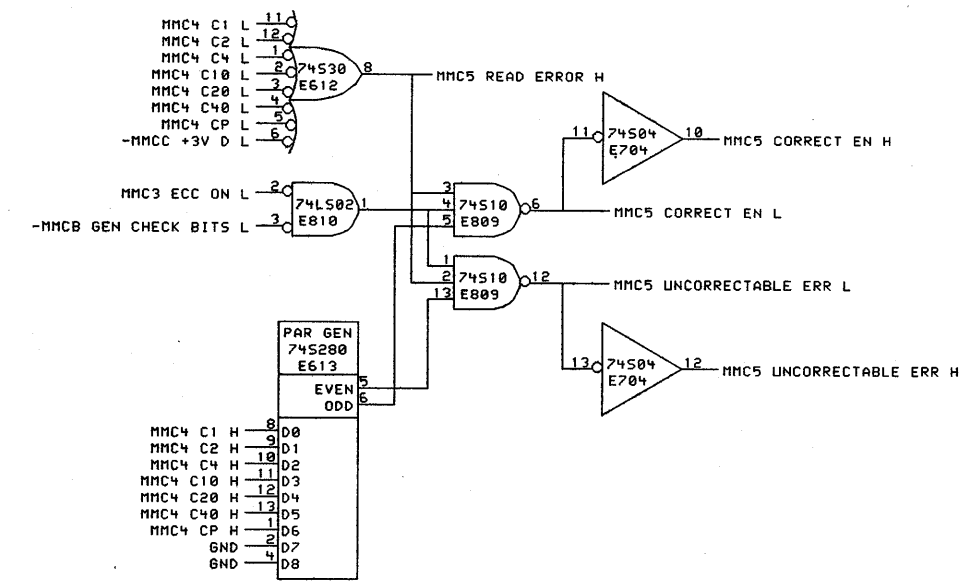
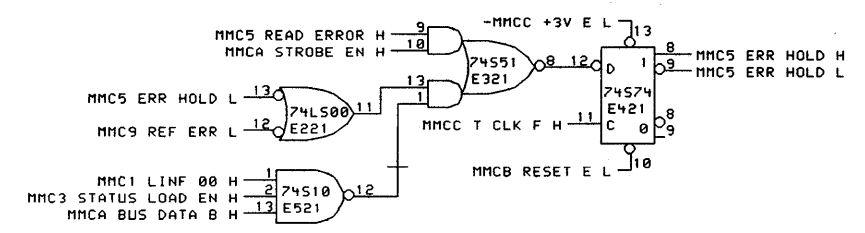
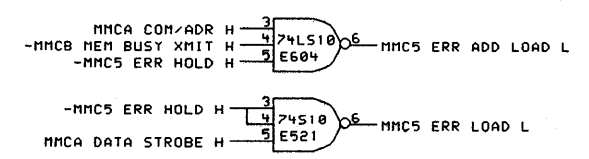
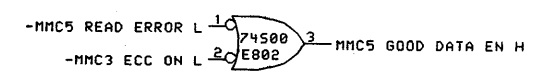
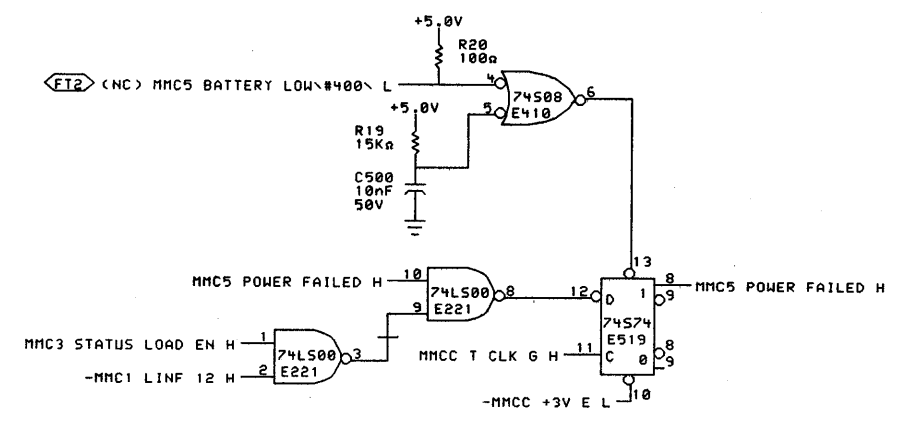
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	ENR.	DATE	TITLE:
	12-APR-78	12-APR-78	12-APR-78	MEMORY CONTROL ECC GEN/CHK
MM4.DRW[4,647]		12-APR-78 13:37	NEXT HIGHER ASSEMBLY:	SIZE CODE
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8618-0	NUMBER	REV.
			D CS M8618-0-MMC4	A



REV. A	SIZE D	CS	300	3215
NUMBER		M8618-0-MMC5		



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REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1
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digital	DRN. J. Lowry	DATE 13-APR-78	ENR. [Signature]	DATE 16-APR-78	TITLE: MEMORY CONTROL ERROR CORRECTION
	CHK'D. [Signature]	DATE 13-APR-78	BOARD LOCATION: 1AF09	SHEET 1 OF 1	SIZE CODE D CS
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8618-0		NUMBER M8618-0-MMC5	REV. A

REV. A  
NUMBER M8618-0-MMC5  
SIZE CODE CS

MR

8

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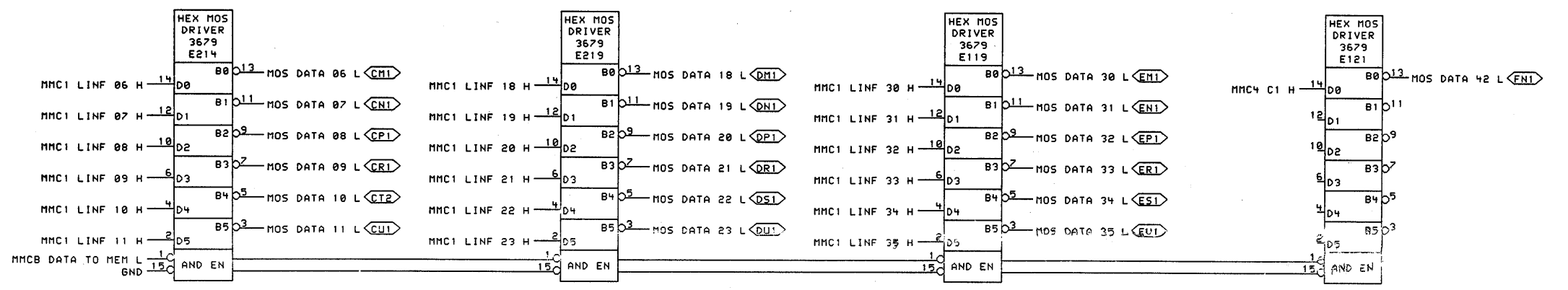
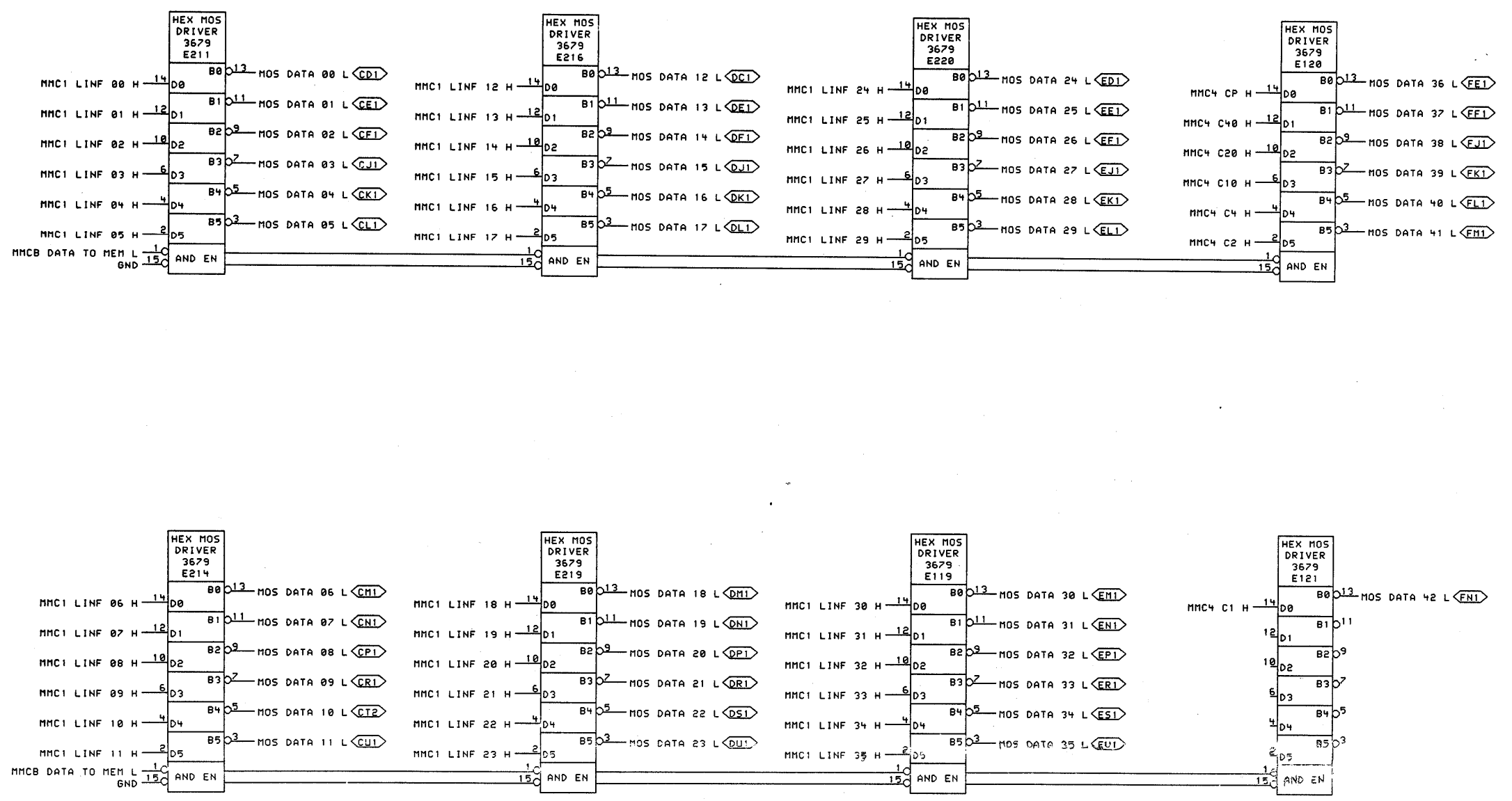
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REV.	9344-0-81984	53	D
REV.	M8618-0-MMC6	CS	E215



SHEET 6 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

**digital** *DRW: J. J. J. CHY: D. J. J.*

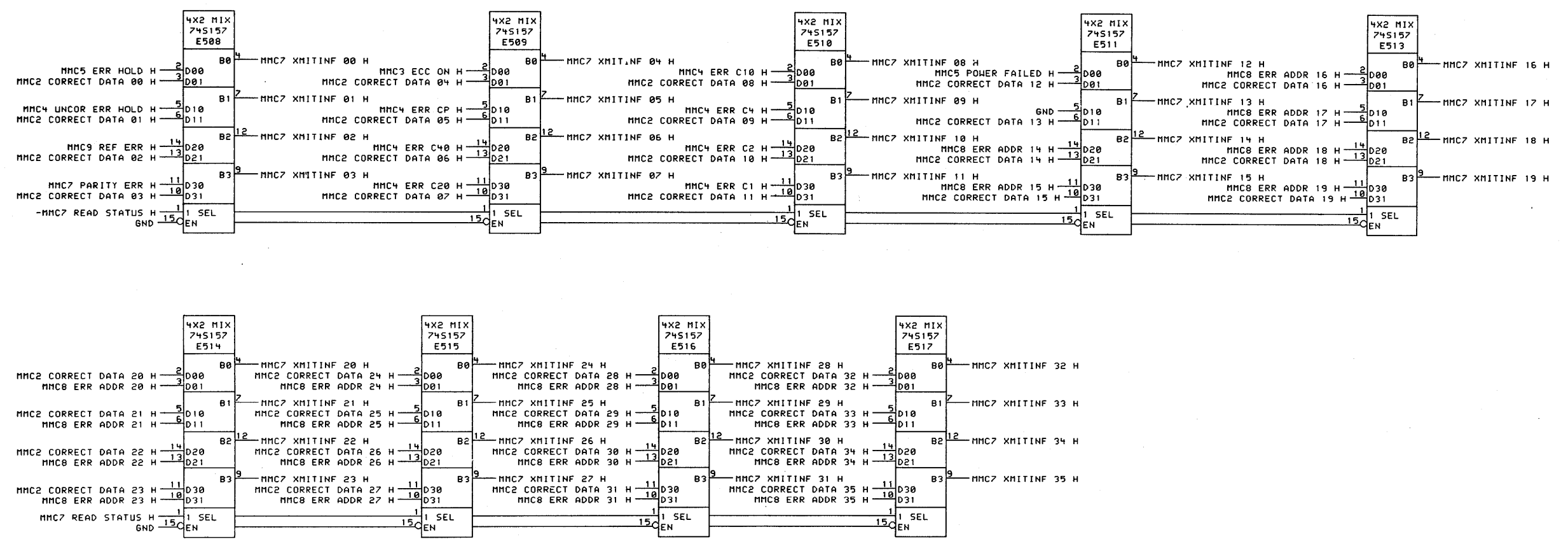
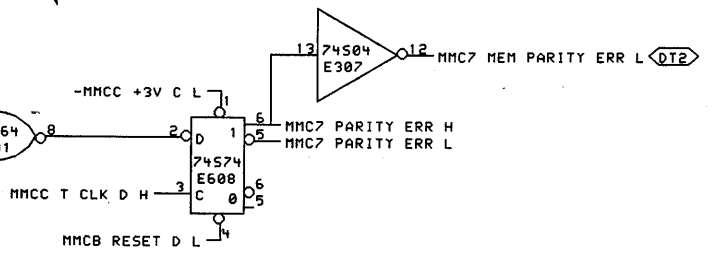
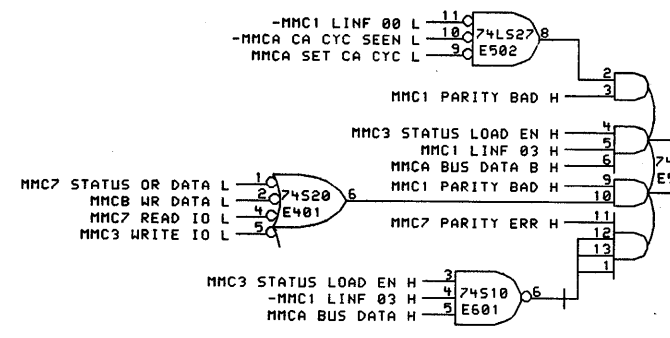
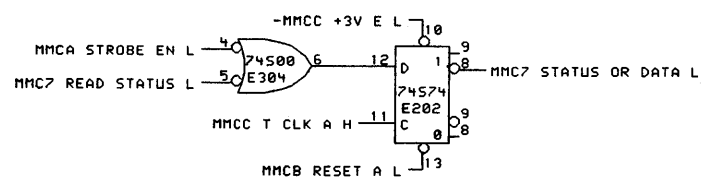
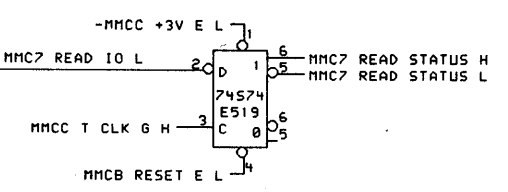
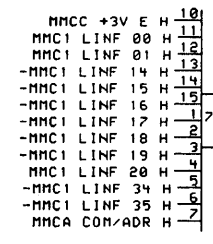
DATE: 24-APR-78  
 BOARD LOCATION: 1AF09  
 SHEET 1 OF 1

DATE: 24-APR-78 14:47  
 NEXT HIGHER ASSEMBLY: B-DD-M8618-0

TITLE:	MEMORY CONTROL MOS DATA
SIZE	D CS
CODE	M8618-0-MMC6
NUMBER	
REV.	A

VERSATEC SUDSVP V4.1 25-APR-78 08:48:21 MMC6.VP7

KNIGHT, P5<M8618>MMC6.DPL.1, SCALE 2, "D" RELEASE BOX

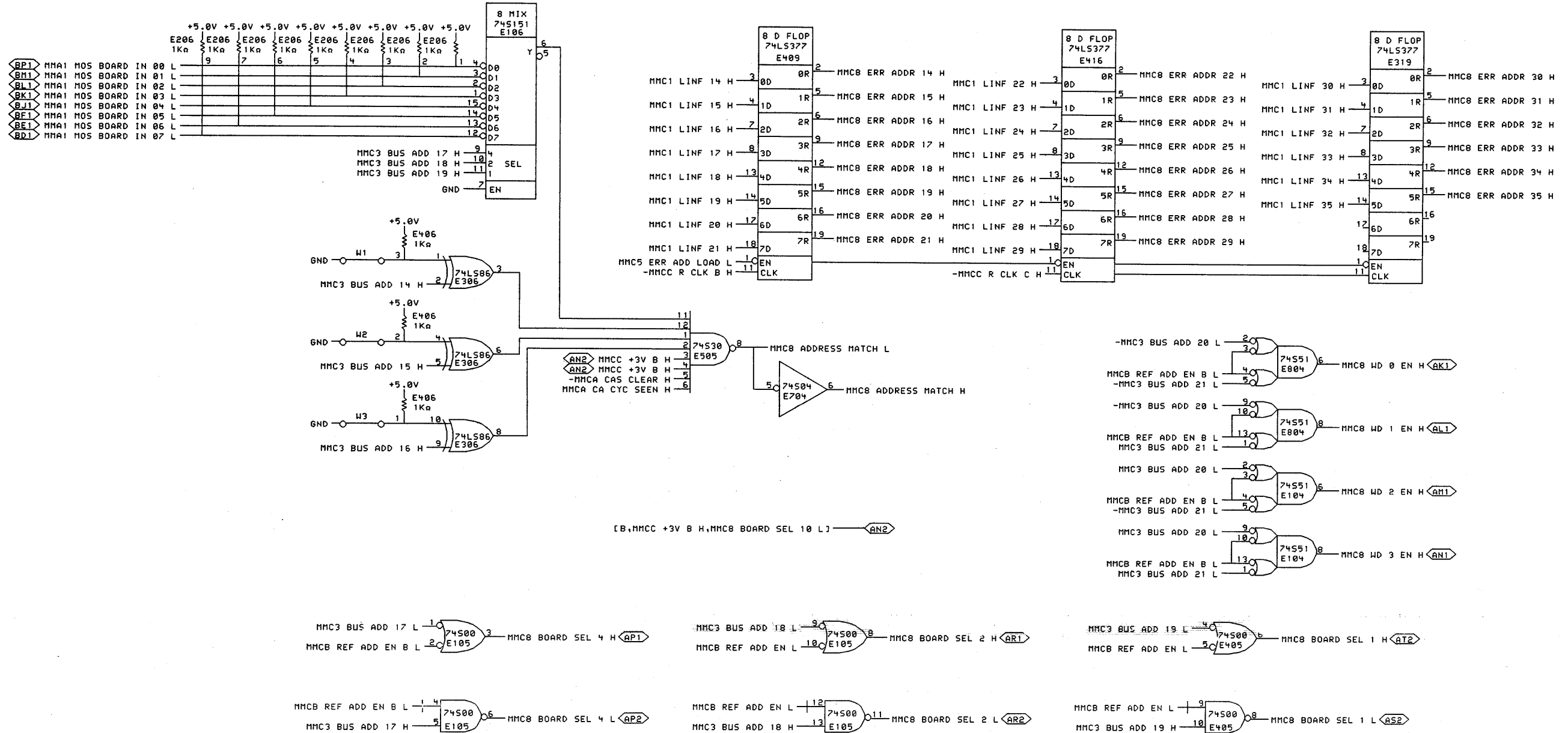


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REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1
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	DATE	25-APR-78	ENR	DATE	25-APR-78	TITLE:	MEMORY CONTROL OUTPUT MIX
	CHK'D	J. J. J.	DATE	25-APR-78	BOARD LOCATION:	IAP09	
	SHEET	1	OF	1	NEXT HIGHER ASSEMBLY:	B-DD-M8618-0	
FIRST USED ON OPTION/MODEL: K510		SIZE CODE: D CS		NUMBER: M8618-0-MMC7		REV.: A	



[B,MMCC +3V B H,MMC8 BOARD SEL 10 L]

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REVISIONS		
CHK	CHANGE NO.	REV.

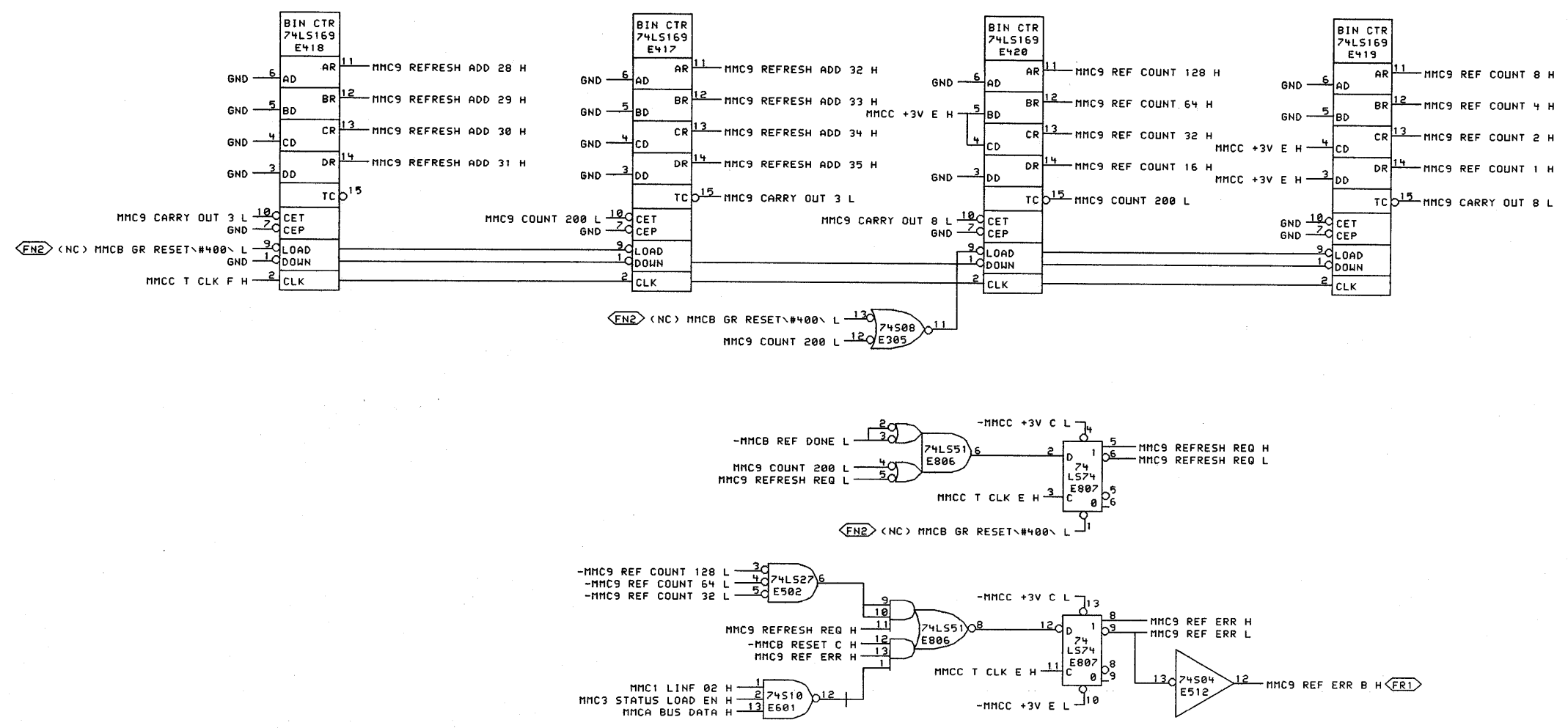
DATE	ENG.	DATE	TITLE:
12-APR-78	<i>John J. ...</i>	12-APR-78	MEMORY CONTROL ADDRESS MATCH
DATE	BOARD LOCATION:	DATE	BOARD LOCATION:
12-APR-78	IAF09	12-APR-78	IAF09
SHEET	1	OF	1
SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC8	A

digital  
 MMCC.DRW(4,647)  
 FIRST USED ON OPTION/MODEL: KS10

NEXT HIGHER ASSEMBLY:  
 B-DD-M8618-0

DATE 12-APR-78  
 DATE 12-APR-78  
 BOARD LOCATION: IAF09  
 SHEET 1 OF 1

SIZE CODE NUMBER REV.  
 D CS M8618-0-MMC8 A



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REVISIONS	
CHK	CHANGE NO. REV.

	DATE	ENG.	DATE	TITLE:
	12-APR-78	J. J. Lounby	12-APR-78	MEMORY CONTROL REFRESH LOGIC
CHK'D	DATE	BOARD LOCATION:	SHEET 1 OF 1	
	12-APR-78 13:47	1AF09		
MMCC.DRW 4,6473	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
FIRST USED ON OPTION MODEL: KS10	B-DD-M8618-0	D CS	M8618-0-MMC9	A

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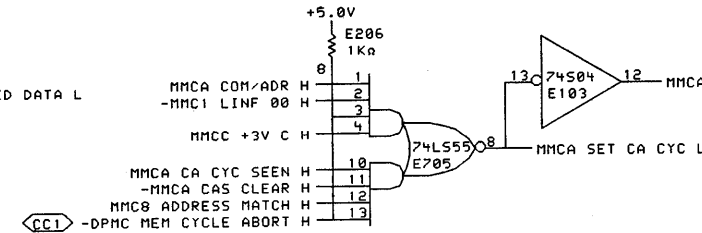
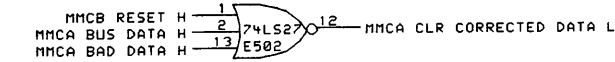
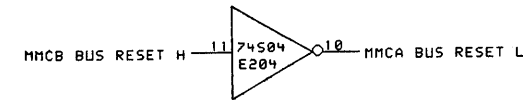
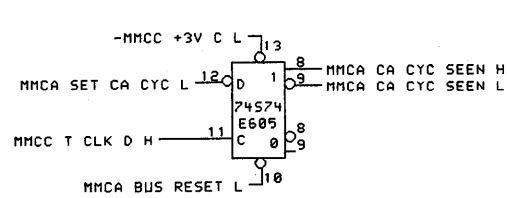
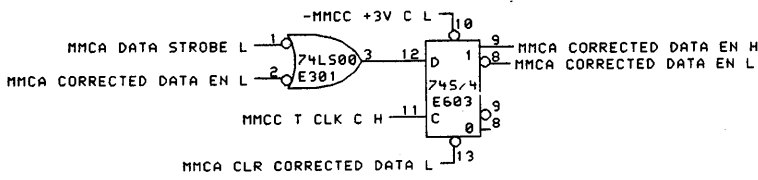
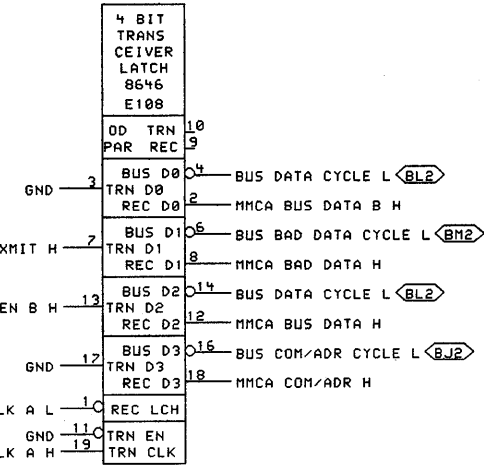
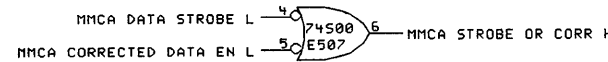
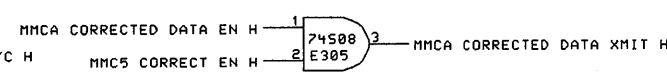
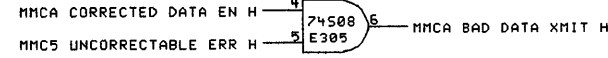
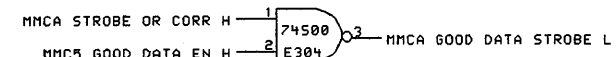
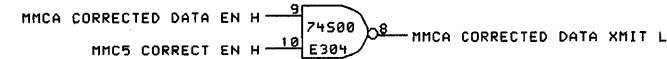
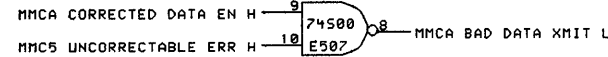
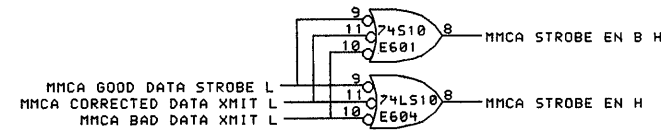
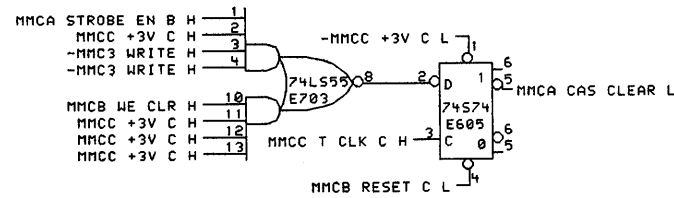
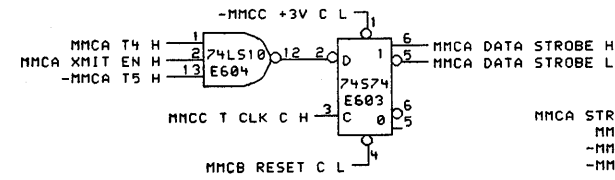
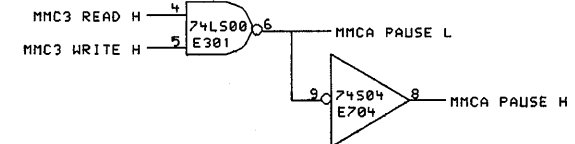
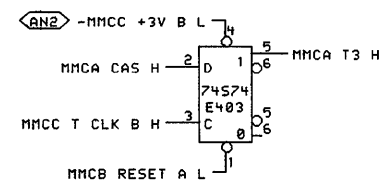
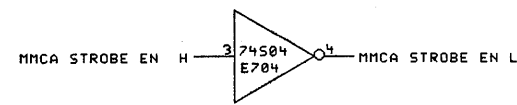
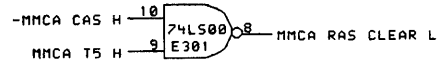
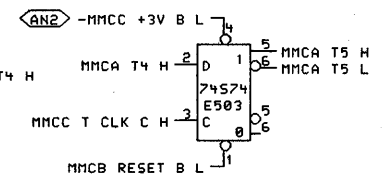
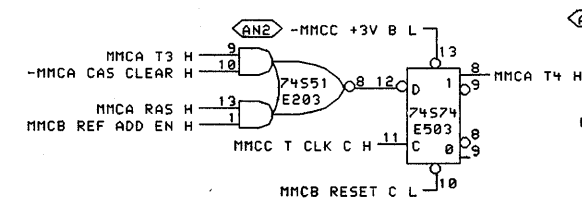
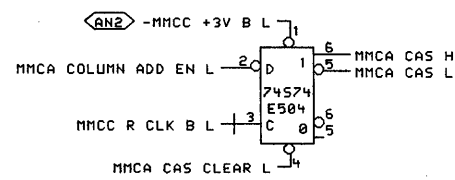
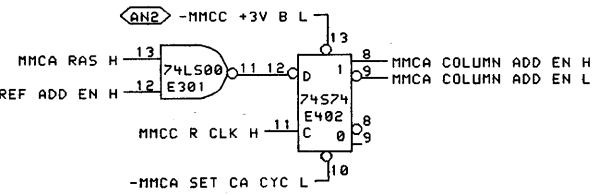
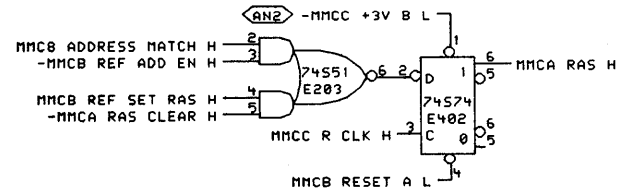
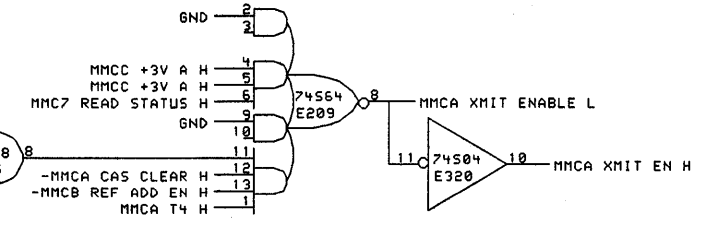
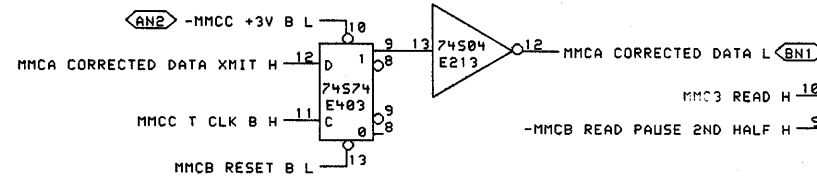
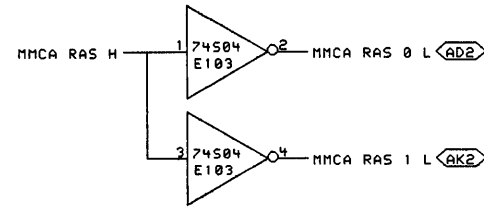
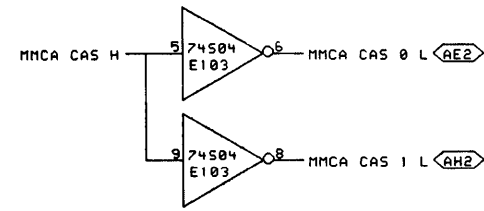
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REV.	4	MMCA	08-0-81980	CS	D	SIZE	315
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SHEET 10 OF 13

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REVISIONS	
CHK	CHANGE NO. REV.

digital	DRN. J. J. J.	DATE 13-APR-78	ENG. J. J. J.	DATE 13-APR-78	TITLE: MEMORY CONTROL CYCLE LOGIC
	CHK. J. J. J.	BOARD LOCATION: 1AF09	DATE 13-APR-78	SHEET 10 OF 13	SIZE CODE NUMBER REV. D CS M8618-0-MMCA A
FIRST USED ON OPTION/MODEL: K510		NEXT HIGHER ASSEMBLY: B-DD-M8618-0			

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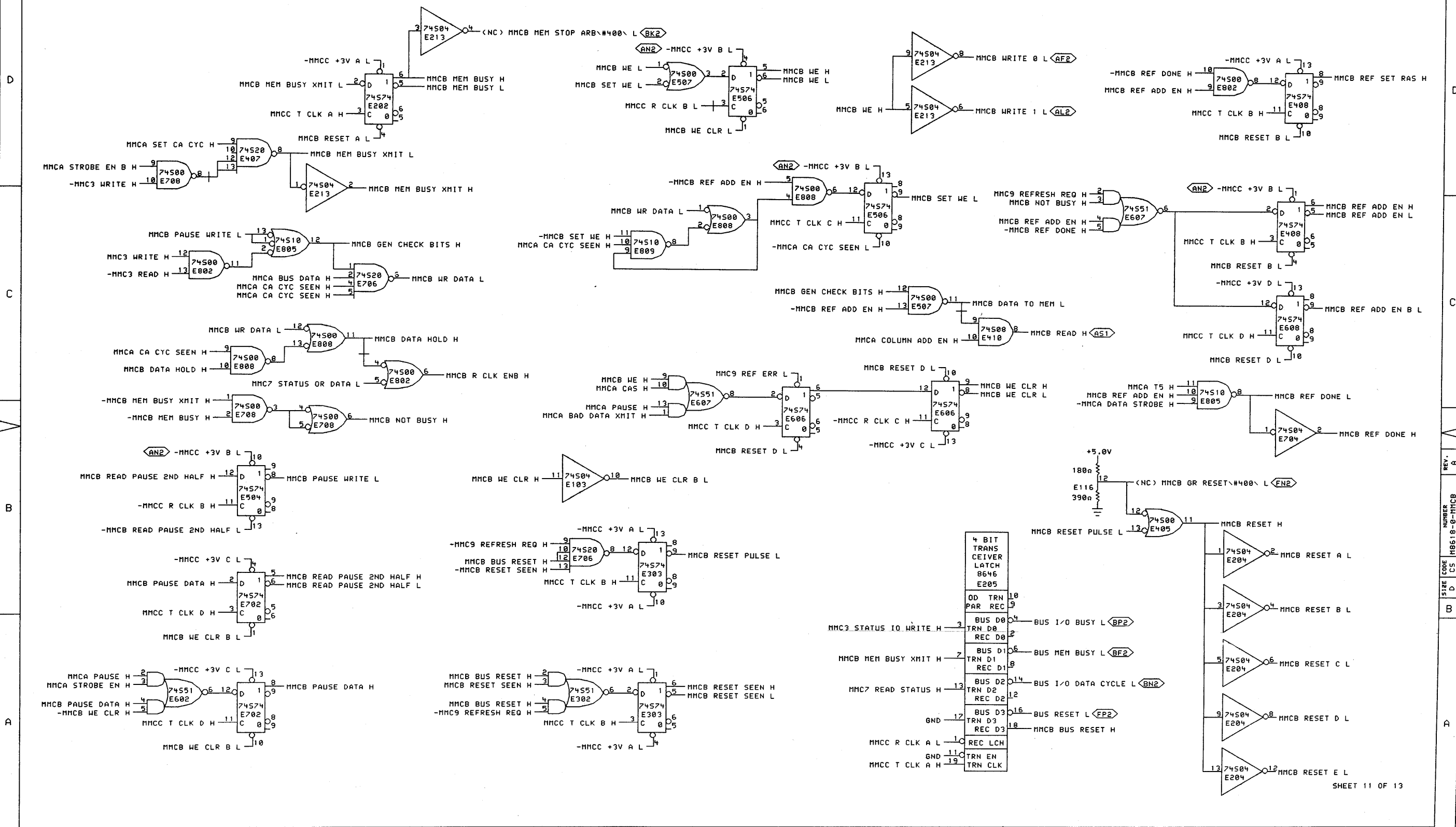
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REV	A	SIZE	D	CODE	CS	NUMBER	M8618-0-MMCB
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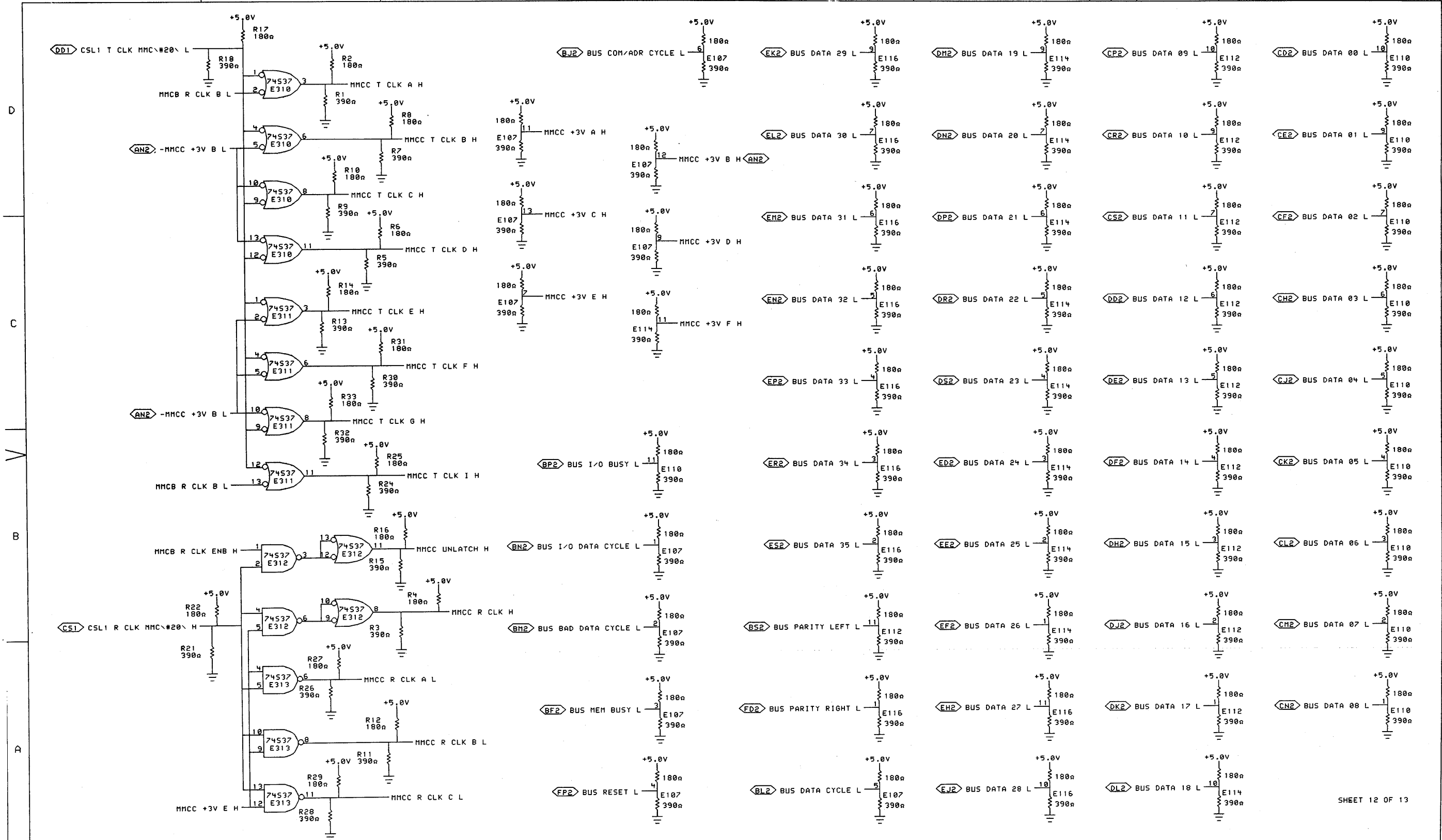
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REV	4	DATE	13-APR-78	ENG.	1092	DATE	13-APR-78	TITLE	MEMORY CONTROL CLOCKS
REV	3	DATE	13-APR-78	ENG.	1092	DATE	13-APR-78	TITLE	MEMORY CONTROL CLOCKS
REV	2	DATE	13-APR-78	ENG.	1092	DATE	13-APR-78	TITLE	MEMORY CONTROL CLOCKS
REV	1	DATE	13-APR-78	ENG.	1092	DATE	13-APR-78	TITLE	MEMORY CONTROL CLOCKS



SHEET 12 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

	DATE	13-APR-78	ENG.	1092	DATE	13-APR-78	TITLE	MEMORY CONTROL CLOCKS	
	DATE	13-APR-78	BOARD LOCATION	IAF09	DATE	13-APR-78	NUMBER	M8618-0-MMCC	
MMCC.DRM4.647 FIRST USED ON OPTION/MODEL: K510	DATE	13-APR-78	16:50	NEXT HIGHER ASSEMBLY:	B-DD-M8618-0	SIZE	D	REV.	A

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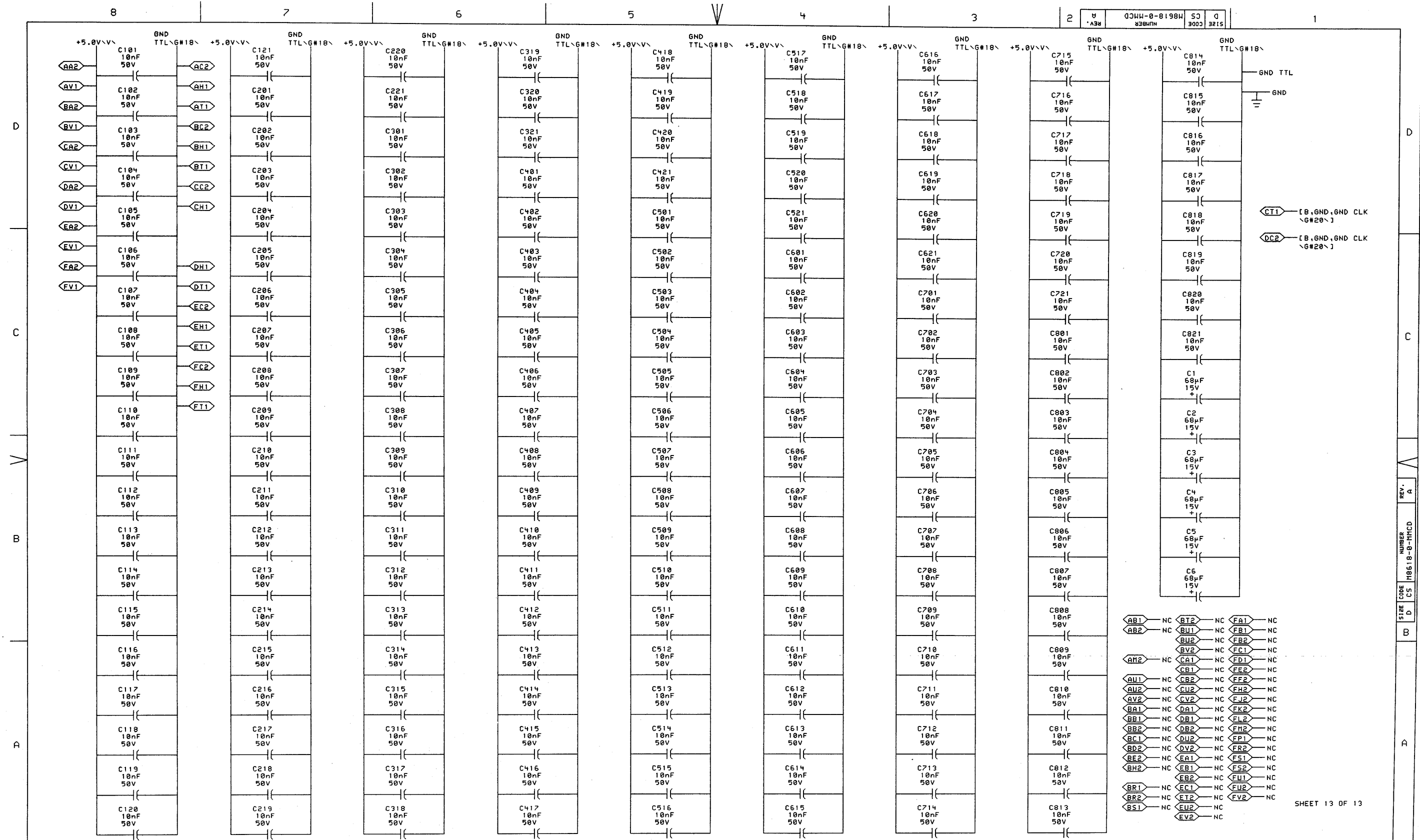
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REV. A  
 CS M8618-0-MMCD  
 SIZE D

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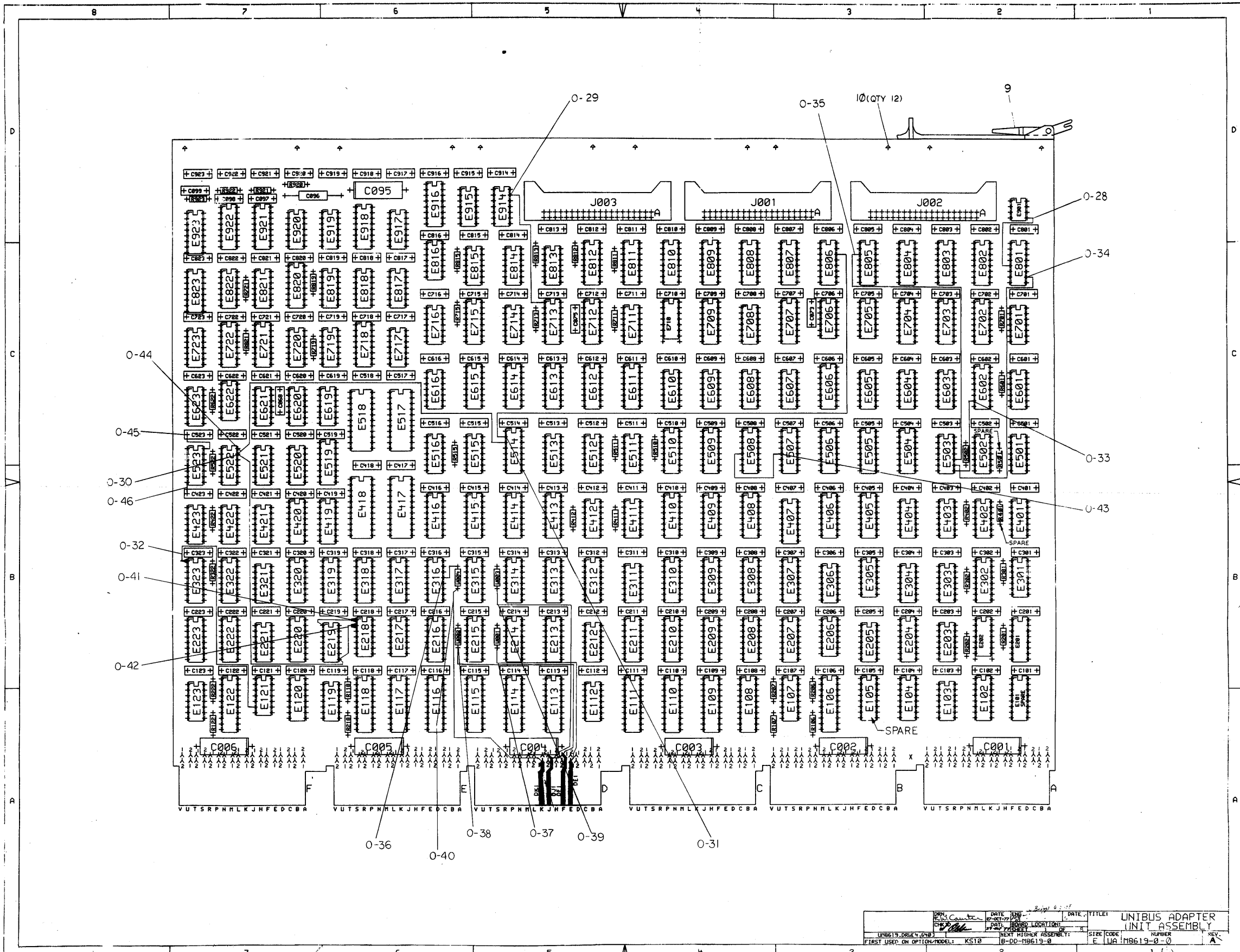
REVISIONS		
CHK	CHANGE NO.	REV.

	DATE	ENG.	DATE	TITLE:
	13-APR-78		10-APR-78	MEMORY CONTROL CAPS
CHK'D	DATE	BOARD LOCATION:	SHEET	OF
	12-APR-78 14:32	1AF09	1	1
MHCD.DRUI4,6473	NEXT HIGHER ASSEMBLY:	SIZE	CODE	NUMBER
FIRST USED ON OPTION/MODEL: KS10	B-DD-M8618-0	D	CS	M8618-0-MMCD
				REV. A

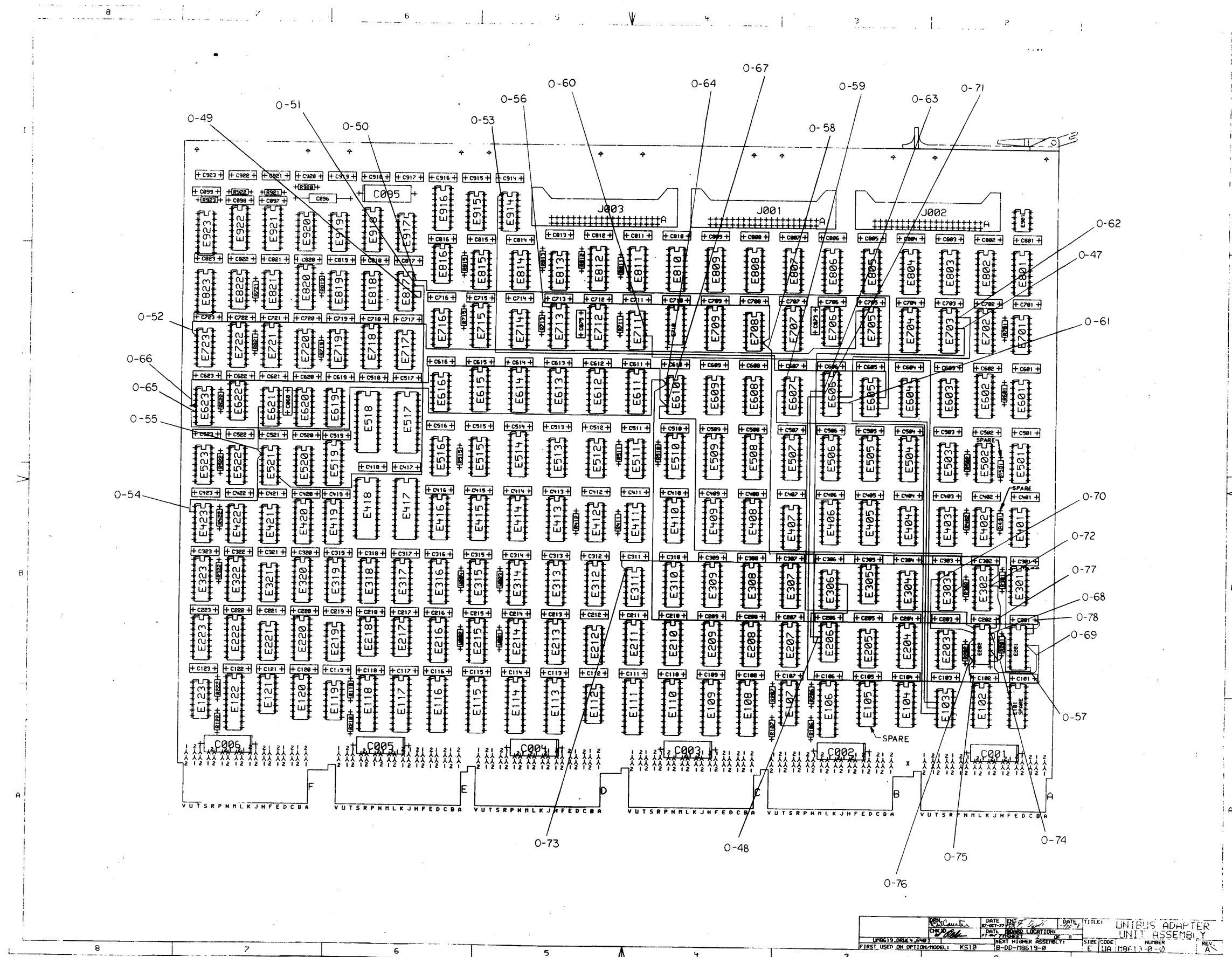
SHEET 13 OF 13

8 7 6 5 4 3 2 1

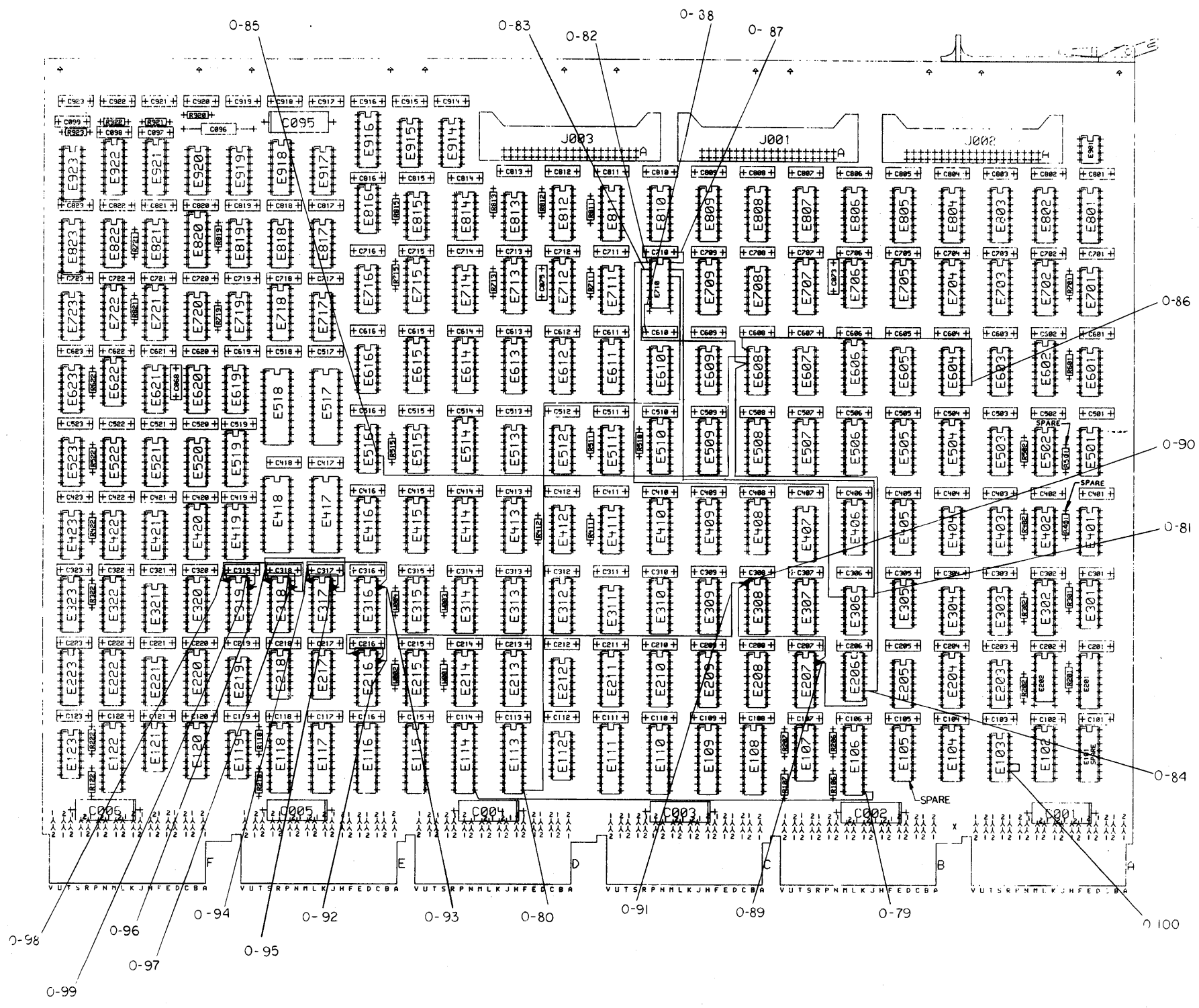
DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS			REVISIONS			REV.
			MODULE REVISION	A						
E-UA-M8619-Ø-Ø	8		KS1Ø UNIBUS ADAPTER	A						
K-PL-M8619-Ø-DBP	3		PARTS LIST DATA BASE (M8619)	A						
D-CS-M8619-Ø-UBA1	1		UNIBUS ADAPTER, UNIBUS ARB	A						
D-CS-M8619-Ø-UBA2	1		UNIBUS ADAPTER, UNIBUS CONTROL	A						
D-CS-M8619-Ø-UBA3	1		UNIBUS ADAPTER, INTERRUPT	A						
D-CS-M8619-Ø-UBA4	1		UNIBUS ADAPTER, I/O RD & WRT	A						
D-CS-M8619-Ø-UBA5	1		UNIBUS ADAPTER, NPR CONTROL	A						
D-CS-M8619-Ø-UBA6	1		UNIBUS ADAPTER, KS1Ø BUS REQ	A						
D-CS-M8619-Ø-UBA7	1		UNIBUS ADAPTER, FAST MODE LOGIC	A						
D-CS-M8619-Ø-UBA8	1		UNIBUS ADAPTER, DATA PATH 1	A						
D-CS-M8619-Ø-UBA9	1		UNIBUS ADAPTER, DATA PATH 2	A						
D-CS-M8619-Ø-UBAA	1		UNIBUS ADAPTER, DATA PATH 3	A						
D-CS-M8619-Ø-UBAB	1		UNIBUS ADAPTER, DATA PATH 4	A						
D-CS-M8619-Ø-UBAC	1		UNIBUS ADAPTER, DATA PATH 5	A						
D-CS-M8619-Ø-UBAD	1		UNIBUS ADAPTER, TERMINATION	A						
D-CS-M8619-Ø-UBAE	1		UNIBUS ADAPTER, UNIBUS CONN	A						
D-CS-M8619-Ø-UBAF	1		UNIBUS ADAPTER, +5.ØV CAPS	A						
D-CS-M8619-Ø-UBAH	1		UNIBUS ADAPTER, POWER, GND PINS	A						
E-MD-5013194-0-0	7		DRILL, WIRE & COMP SCREEN DRAWING	A						
		5013194	MULTIWIRE BOARD	A						
K-PC-M8619-Ø-DBC	-		MULTIWIRE DATA BASE (M8619)	A						
POO-M8619-ØØ			PROCESS SHEETS	REF						
<b>NOTES:</b>				REVISIONS	CHG NO.	REV.	DATE	ORIG		
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						CHK'D	EW Cauder	22/ØØ	SIZE	B
						ENG.	F. D. ...	14-ØØ	CODE	DD
						PROD.	W. Bush ...	Ø-21-78	NUMBER	M8619-Ø
									REV.	A
									SHEET 1 OF 1	



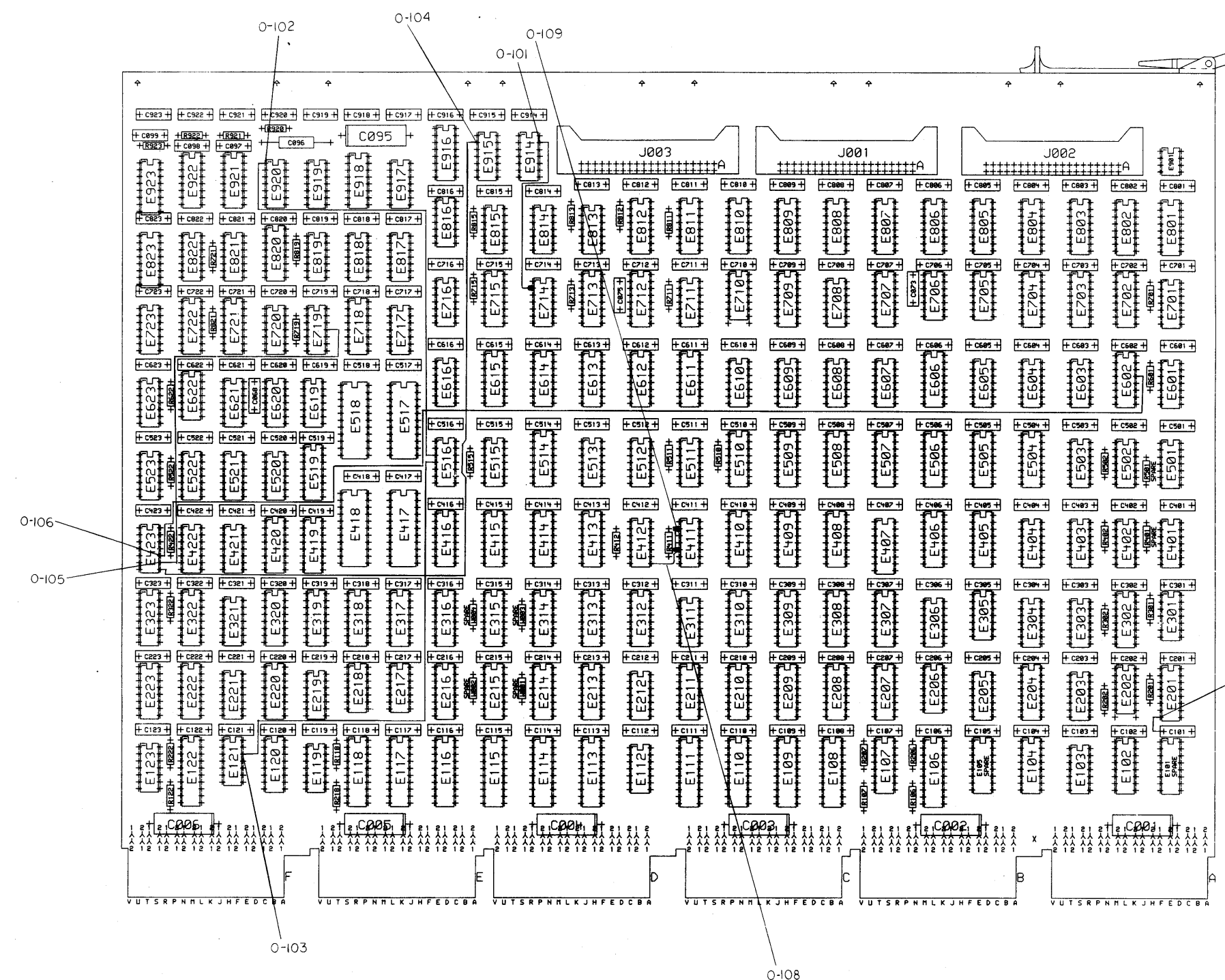
DATE: 10-27-77	BY: [Signature]	CHKD: [Signature]	DATE: 10-27-77	TITLE: UNIBUS ADAPTER UNIT ASSEMBLY
UFG613.DRM (ENR)	PAT. NO. 3,548,000	LOC. 1	REV. 1	NUMBER
FIRST USED ON OPTION MODEL: K518	NEXT HIGHER ASSEMBLY: 18-DD-118613-0	SIZE CODE	18-DD-118613-0	REV. A



DESIGNER K. S. B.	DATE 02-01-69	FILE #	TITLE UNITBUS ADAPTER UNIT ASSEMBLY
DESIGNED BY K. S. B.	DATE	FILE #	NUMBER
FIRST USED ON OPTION MODEL K518	NEXT HIGHER ASSEMBLY B-DD-19613-B	SIZE CODE	NUMBER EUA19613-B-0
			REV A
			1 MR

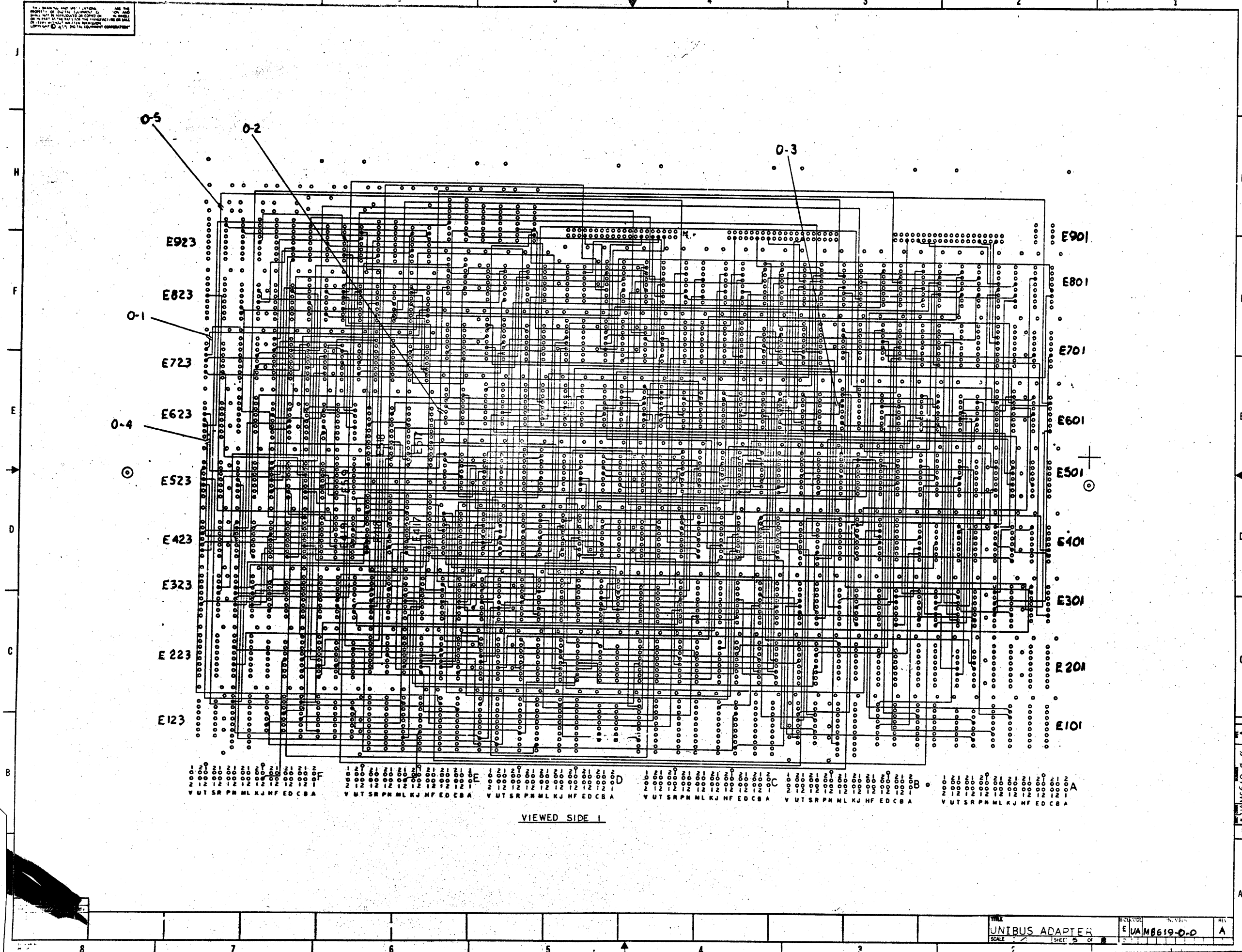


DATE: 11/11/71  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PART NUMBER: 110619-0-0  
 NEXT WORK ASSEMBLY: 110619-0-1  
 FIRST USED ON PART NUMBER: 110619-0-0  
 EIA 110619-0-0



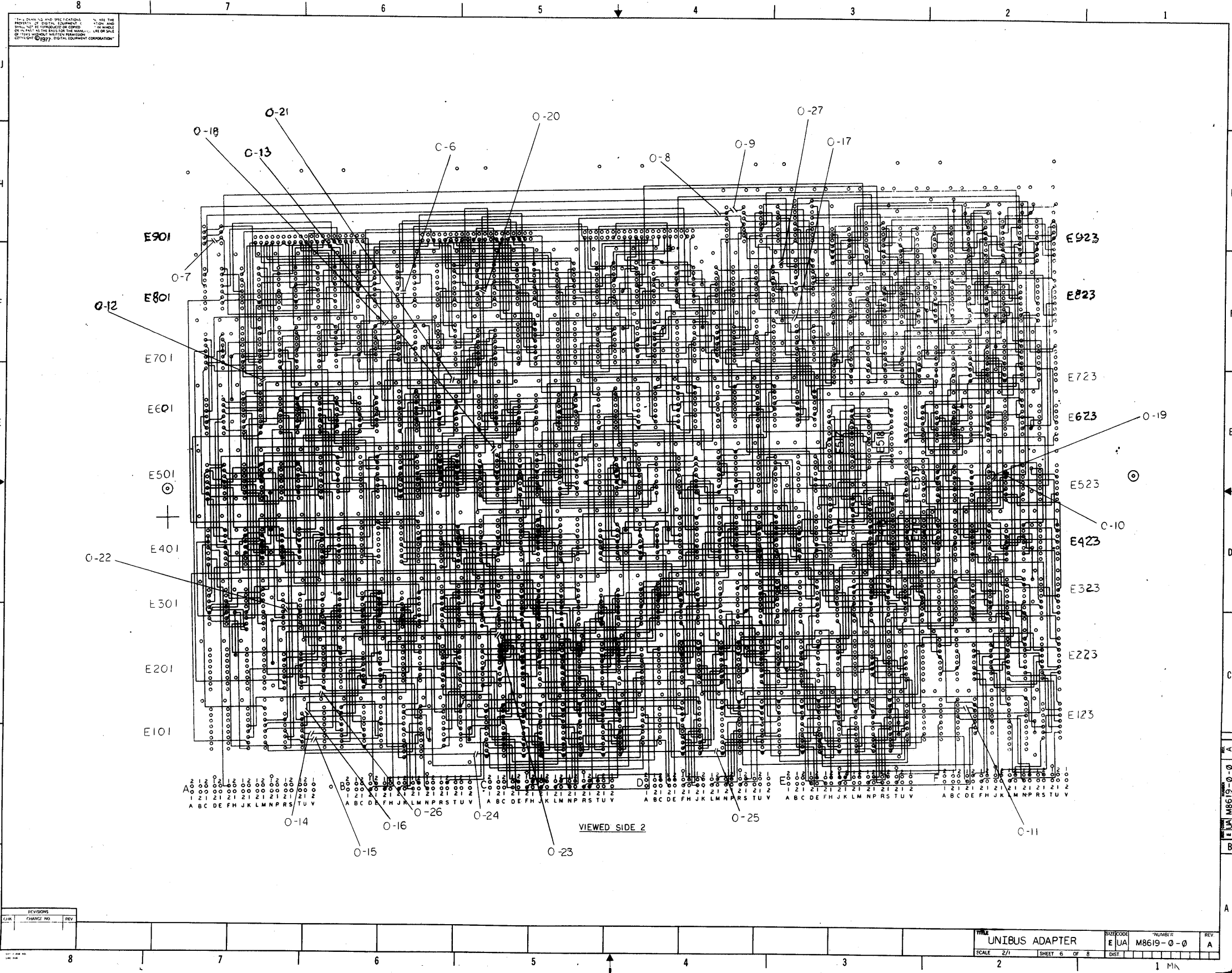


ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. DATE 03-08-2010 BY 60322 UCBAW/DK/STW



VIEWED SIDE 1

TITLE: UNIBUS ADAPTER  
 SCALE: 1/8"  
 SHEET: 5 OF 8  
 PART NO: E U A M 8 6 1 9 - 0 - 0  
 REV: A

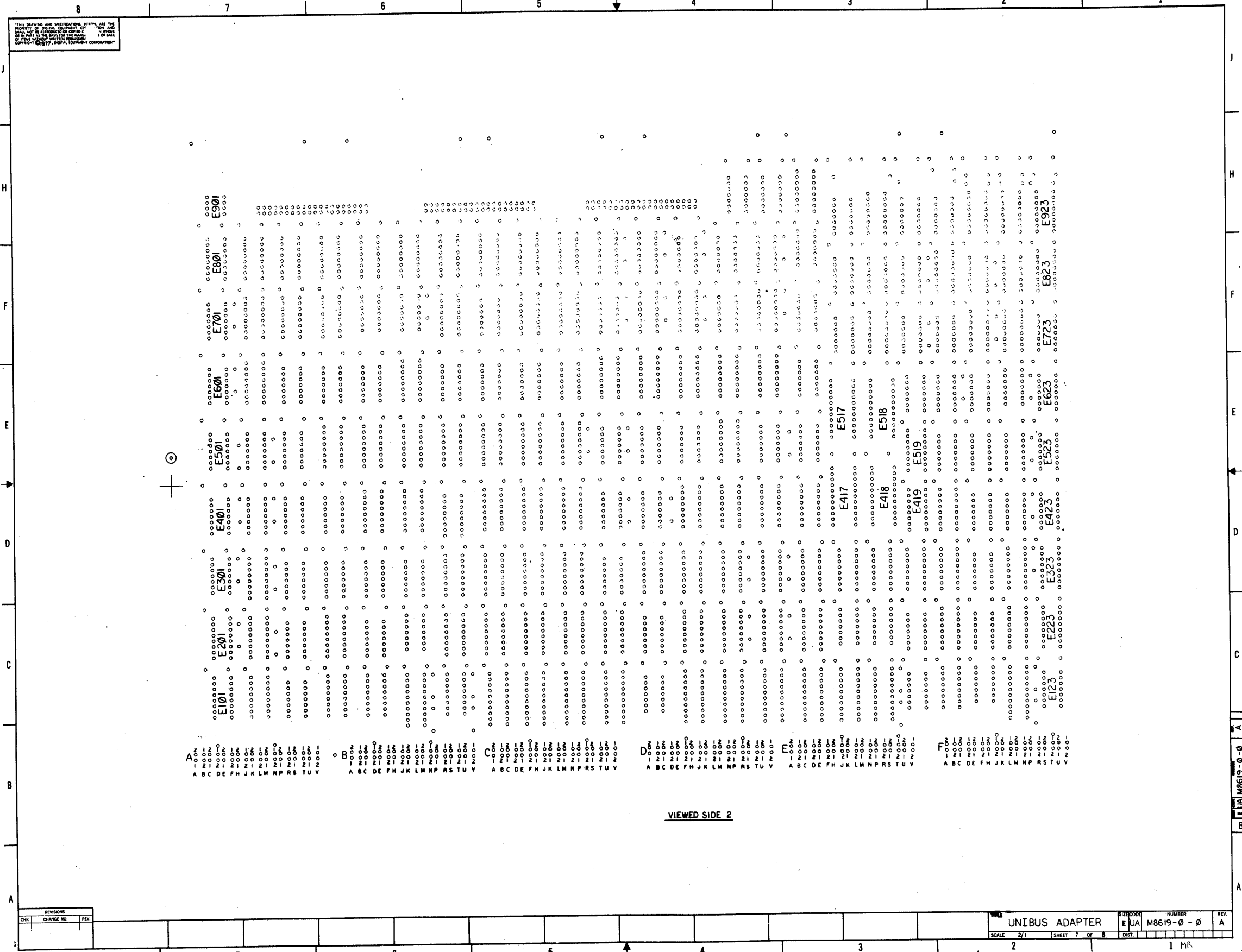


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REVISIONS		
DATE	CHANGE NO.	REV.

TITLE: UNIBUS ADAPTER  
 SCALE: 2/1  
 SHEET: 6 OF 8  
 SIZE CODE: E U A  
 NUMBER: M8619-0-0  
 REV: A  
 1 MIN.





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REVISIONS		
CHK	CHANGE NO.	REV.

UNIBUS ADAPTER		SIZE CODE	NUMBER	REV.
E LJA		M8619-0-0	A	
SCALE 2/1	SHEET 7 OF 8	DIST.		

E LJA M8619-0-0 A

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- NOTES:**
- FOR DRAWING DIRECTORY REFER TO: B-DD-M8619-0
  - UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:  

PACKAGE TYPE	+5.0V	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
I C DEC 8646	20	5,15
I C DEC 931.422	22	8
I C DEC 8640	8	1
I C DEC 75451	8	4
  - THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON.
  - MAXIMUM COMPONENT HEIGHT IS .300
  - MAXIMUM COMPONENT LEAD PROTRUSION IS .047
  - FINISHED HOLE SIZES ARE AS FOLLOWS IN INCHES:  

+	-.037 ±.003
†	-.133 ±.002 -.007
X	+.100 ±.003
λ	+.025 ±.003 -.006

**REWORK INSTRUCTIONS**

**FIRST RELEASE**

ETCH CUTS, SIDE #1, AS SHOWN

- D-1 AT ETCH ABOVE AND TO RIGHT OF E723(1)
- D-2 AT ETCH TO LEFT OF E810(5)
- D-3 AT E884(1)
- D-4 AT ETCH BELOW AND TO RIGHT OF E823(7)
- D-5 AT ETCH ABOVE AND TO LEFT OF E523(16)

ETCH CUTS, SIDE #2 AS SHOWN

- D-6 AT ETCH ABOVE AND TO RIGHT OF E886(11)
- D-7 AT E814(13)
- D-8 AT E814(13) BOTH SIDES OF PTH
- D-9 AT E822(13)
- D-10 AT E121(23)
- D-11 AT E121(23)
- D-12 AT ETCH ABOVE AND TO RIGHT OF E882(1)
- D-13 AT ETCH ABOVE AND TO LEFT OF E882(1)
- D-14 AT E183(4)
- D-15 AT E183(4)
- D-16 AT ETCH ABOVE AND TO RIGHT OF E193(1)
- D-17 AT ETCH ABOVE E716(14)
- D-18 AT E782(1)
- D-19 AT E521(2)
- D-20 AT ETCH TO RIGHT OF E888(11)
- D-21 AT FOURTH ETCH BELOW E107(8)
- D-22 AT E382(1)
- D-23 AT ETCH ABOVE E288(1)
- D-24 AT E188(1)
- D-25 AT E144(1)
- D-26 AT ETCH BELOW E284(9)
- D-27 AT ETCH ABOVE AND TO RIGHT OF E915(1)

WIRE ADDS, SIDE #1 AS SHOWN

- D-28 FROM E891(5) TO E881(5)
- D-29 FROM E814(13) TO E713(1)
- D-30 FROM E822(13) TO E219(8)
- D-31 FROM E886(14) TO E514(2)
- D-32 LIFT LEG E323(1) AND ADD WIRE FROM LEG TO E121(6)
- D-33 FROM E882(7) TO E823(8)
- D-34 FROM E882(9) TO E881(8)
- D-35 FROM E883(18) TO E885(3)
- D-36 FROM E316(13) TO TOP PTH OF W4
- D-37 FROM BOTTOM PTH OF W1 TO FINGER PIN D01 PTH
- D-38 FROM BOTTOM PTH OF W2 TO FINGER PIN D01 PTH
- D-39 FROM BOTTOM PTH OF W3 TO FINGER PIN D01 PTH
- D-40 FROM BOTTOM PTH OF W4 TO FINGER PIN D01 PTH
- D-41 LIFT LEG OF E218(1) AND ADD WIRE FROM LEG TO E218(1)
- D-42 LIFT LEG OF E218(2) AND ADD WIRE FROM LEG TO E218(2)
- D-43 FROM E888(5) TO E881(5)
- D-44 FROM E314(13) TO E523(13)
- D-45 FROM E823(14) TO RIGHT LEG OF C523
- D-46 FROM E823(7) TO LEFT LEG OF C423
- D-47 FROM E783(13) TO E288(4)
- D-48 FROM E288(3) TO E388(12)
- D-49 FROM E817(18) TO E817(11)
- D-50 FROM E885(9) TO E817(13)
- D-51 FROM E817(12) TO E821(6)
- D-52 FROM E723(2) TO E783(1)
- D-53 FROM E814(1) TO E885(1)
- D-54 FROM E423(2) TO E521(2)
- D-55 FROM E821(2) TO E821(4)
- D-56 FROM E788(1) TO E713(1)
- D-57 FROM E281(8) TO TOP LEG OF R281
- D-58 FROM E788(1) TO E788(1)
- D-59 FROM E887(3) TO E183(5)
- D-60 FROM E711(10) TO E183(4)
- D-61 FROM E183(2) TO E888(1)
- D-62 FROM E886(12) TO E783(15)
- D-63 FROM E888(4) TO E81(13)
- D-64 FROM E281(15) TO E818(2)
- D-65 FROM E818(2) TO E823(5)

- D-66 LIFT LEG OF E823(4) AND ADD WIRE FROM LEG TO E810(6)
- D-67 FROM E818(8) TO E882(11)
- D-68 FROM E882(12) TO E882(13)
- D-69 FROM E882(13) TO E81(13)
- D-70 FROM E883(2) TO E882(2)
- D-71 FROM E882(1) TO E888(5)
- D-72 FROM E882(4) TO E882(13)
- D-73 FROM E882(14) TO E311(1)
- D-74 FROM E882(14) TO BOTTOM LEG OF R281
- D-75 FROM E882(7) TO LEFT LEG OF C182
- D-76 FROM E882(7) TO E882(5)
- D-77 FROM E882(14) TO RIGHT LEG OF C282
- D-78 FROM E881(16) TO RIGHT LEG OF C281
- D-79 FROM E188(1) TO E144(1)
- D-80 FROM E718(12) TO E134(1)
- D-81 FROM E718(15) TO E388(13)
- D-82 FROM E718(1) TO E388(2)
- D-83 FROM E718(2) TO E888(3)
- D-84 FROM E888(3) TO E888(8)
- D-85 FROM E888(2) TO E818(18)
- D-86 FROM E888(1) TO E884(8)
- D-87 FROM E718(14) TO RIGHT LEG OF C718
- D-88 FROM E718(7) TO LEFT LEG OF C818
- D-89 LIFT LEG OF E287(15) AND ADD WIRE FROM LEG TO E288(8)
- D-90 LIFT LEG OF E888(1) AND ADD WIRE FROM LEG TO LEG OF E881(15)
- D-91 LIFT LEG OF E218(1) AND ADD WIRE FROM LEG TO LEG OF E888(1)
- D-92 LIFT LEG OF E218(15) AND ADD WIRE FROM LEG TO LEG OF E218(1)
- D-93 LIFT LEG OF E318(18) AND ADD WIRE FROM LEG TO LEG OF E318(15)
- D-94 LIFT LEG OF E317(1) AND ADD WIRE FROM LEG TO LEG OF E318(15)
- D-95 LIFT LEG OF E317(15) AND ADD WIRE FROM LEG TO LEG OF E317(1)
- D-96 LIFT LEG OF E318(1) AND ADD WIRE FROM LEG TO LEG OF E317(15)
- D-97 LIFT LEG OF E318(15) AND ADD WIRE FROM LEG TO LEG OF E318(1)
- D-98 LIFT LEG OF E318(1) AND ADD WIRE FROM LEG TO LEG OF E318(15)
- D-99 LIFT LEG OF E318(15) AND ADD WIRE FROM LEG TO LEG OF E318(1)
- D-100 FROM E188(18) TO E188(8)
- D-101 LIFT LEG OF E714(2) AND ADD WIRE FROM LEG TO E914(13)
- D-102 FROM E818(3) TO E828(1)
- D-103 FROM E814(4) TO E212(12)
- D-104 FROM E423(8) TO E915(2)
- D-105 FROM E423(5) TO E718(1)
- D-106 FROM E423(18) TO E882(13)
- D-107 FROM E281(8) TO LEFT LEG OF C181
- D-108 LIFT LEG OF E411(5) AND ADD WIRE FROM LEG TO E412(8)
- D-109 LIFT LEG OF E411(2) AND ADD WIRE FROM LEG TO LEG OF E411(5)

SHT 2 OF 8

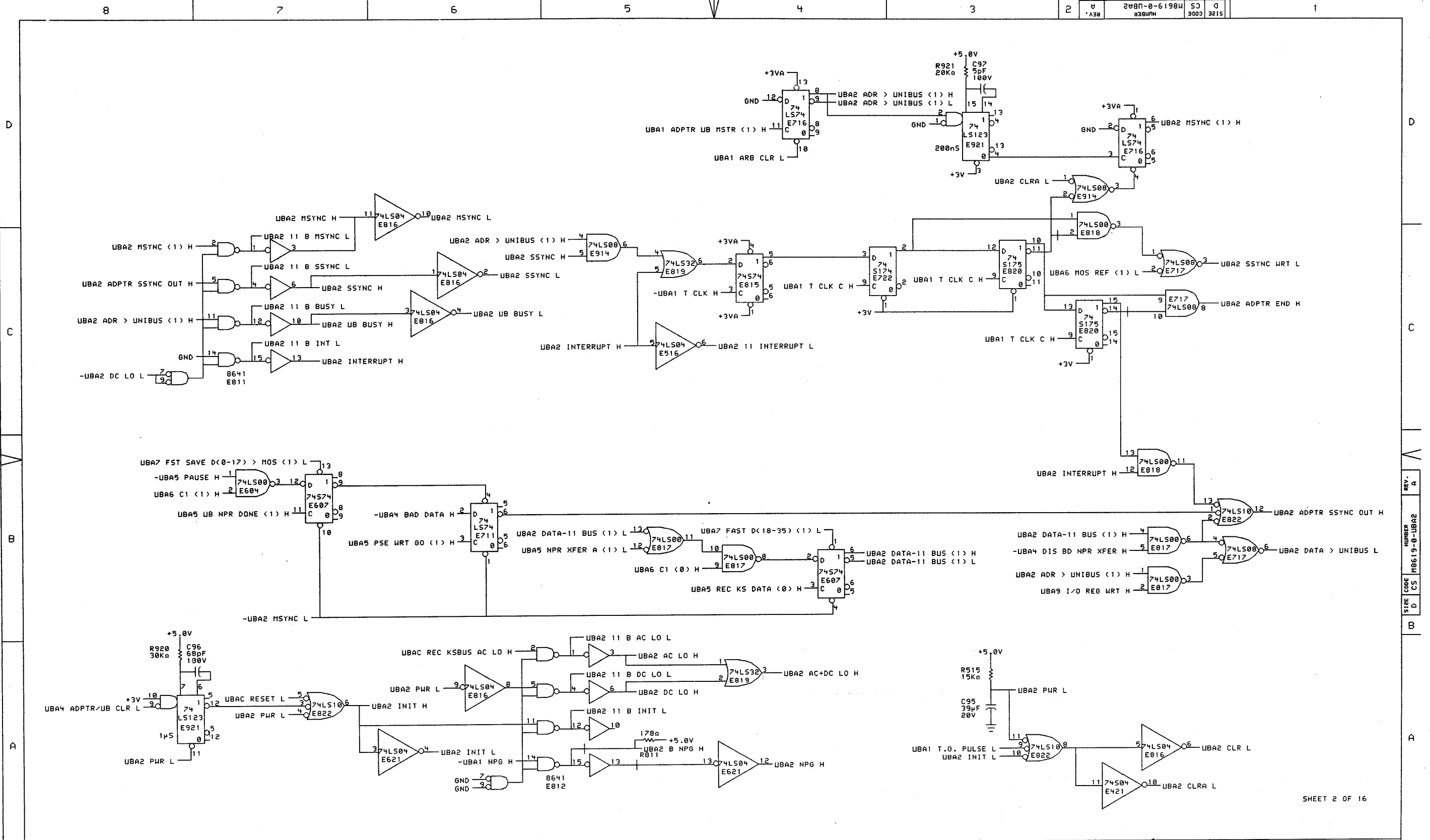
SHT 3 OF 8

SHT 4 OF 8

REV.	CHG. NO.	REV.

UNIBUS ADAPTER M8619-0-0-A





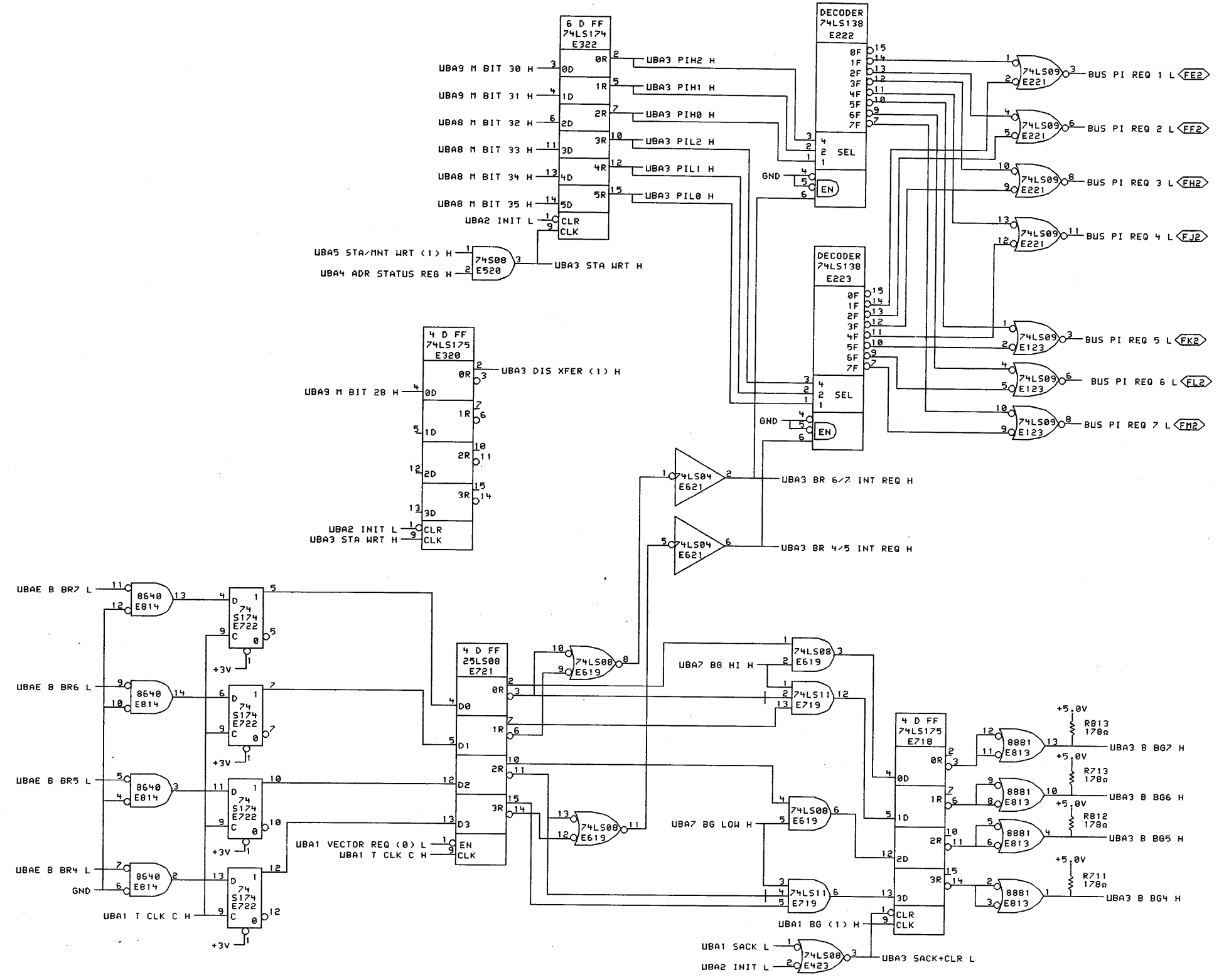
SHEET 2 OF 16

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REVISIONS	
CHK	CHANGE NO. REV

digital	DRW. J. J. J.	DATE 11-APR-78	ENG. J. J. J.	DATE 11-APR-78	TITLE: UNIBUS ADAPTER UNIBUS CONTROL
	CHK. D.	DATE 4/15/78	BOARD LOCATION: SHEET 1 OF 1	SIZE CODE D CS	NUMBER M8619-0-UBA2
UBA2.DRW(4,650)		11-APR-78 11:17	NEXT HIGHER ASSEMBLY: B-DD-M8619-0	REV. A	
FIRST USED ON OPTION/MODEL: K510					

REV. A	CS	D	SIZE
NUMBER	CS	CS	CS
M8619-0-UBA3	M8619-0-UBA3	M8619-0-UBA3	M8619-0-UBA3



SHEET 3 OF 16

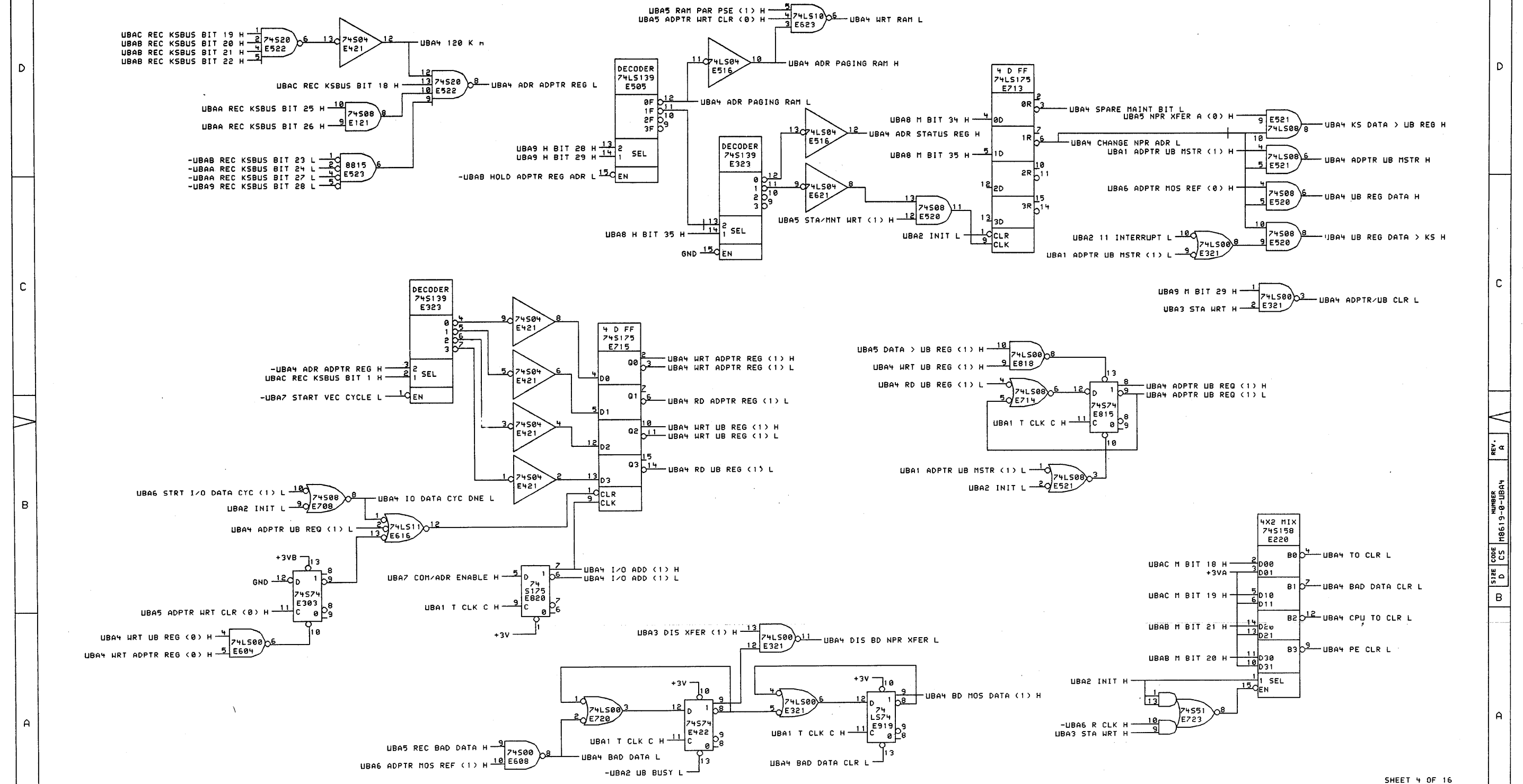
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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DATE	ENG.	DATE	TITLE:
	07-APR-78	J. J. J.	07-APR-78	UNIBUS ADAPTER INTERRUPT
CHK'D.	DATE	BOARD LOCATION:	SHEET	OF
UBA3.DRW(4,650)	07-APR-78 00:29	NEXT HIGHER ASSEMBLY:	1	1
FIRST USED ON OPTION/MODEL:	KS10	B-DD-M8619-0		

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA3	A

REV.	NO.	DATE	BY
1	1	13-APR-78	J. J. LOOBY



SHEET 4 OF 16

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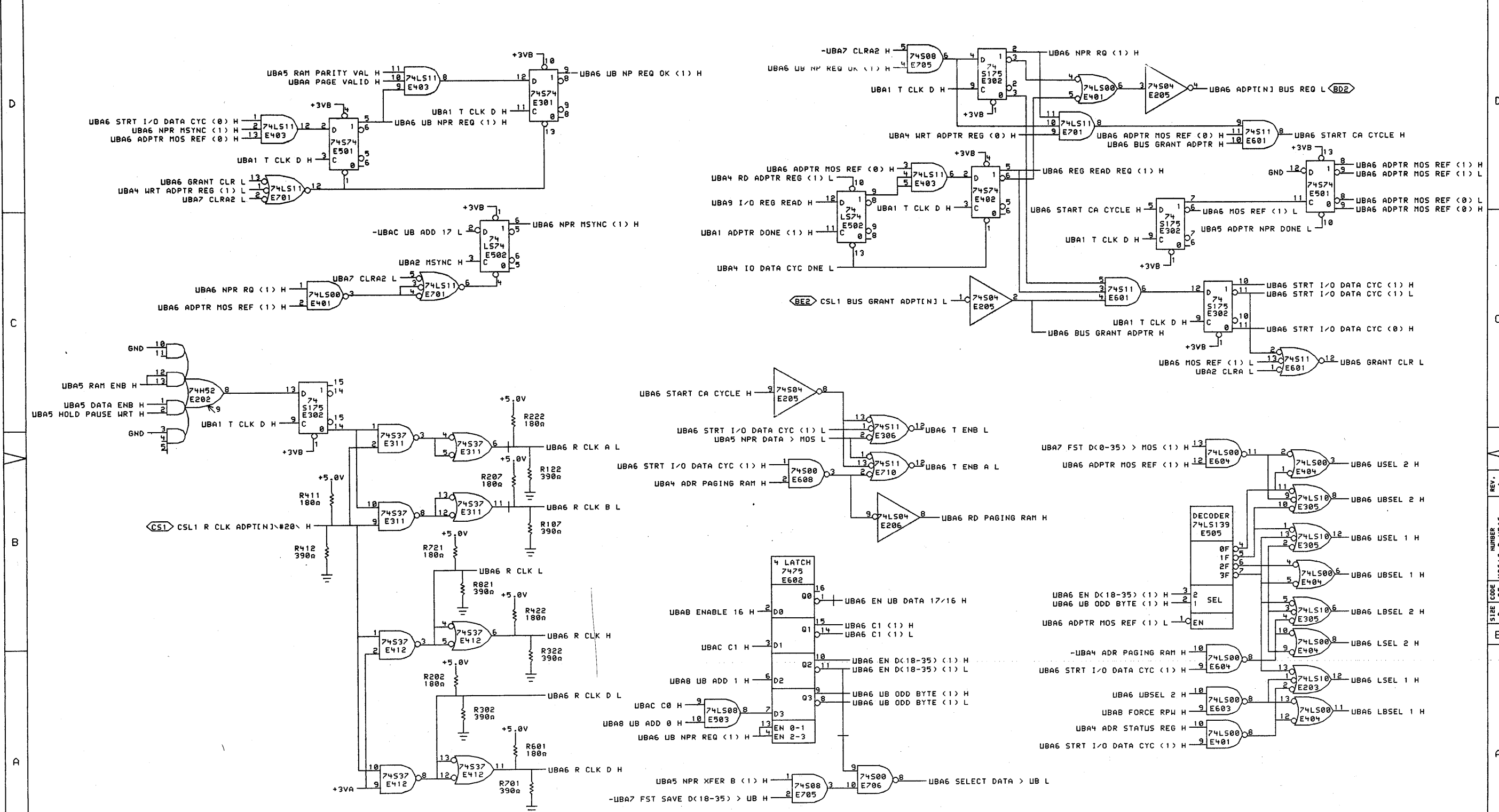
REVISIONS		
CHK	CHANGE NO.	REV.

	DATE	13-APR-78	ENG.	J. J. LOOBY	DATE	13-APR-78	TITLE:	UNIBUS ADAPTER I/O RD+WRT			
	CHK'D.	J. J. LOOBY	DATE		BOARD LOCATION:		SHEET	1	OF	1	
	FILE NO.	UBA4.DRW(4,650)	DATE	13-APR-78 11:01	NEXT HIGHER ASSEMBLY:	B-DD-M8619-0	SIZE	D	CODE	CS	
	FIRST USED ON OPTION MODEL:	KS10				NUMBER	M8619-0-UBA4	REV.	A		

REV. A  
NUMBER M8619-0-UBA4  
D



REV.	4	9080-0-6-11984	CS	D
NUMBER	18619-0-UBA6			
SIZE CODE	D			



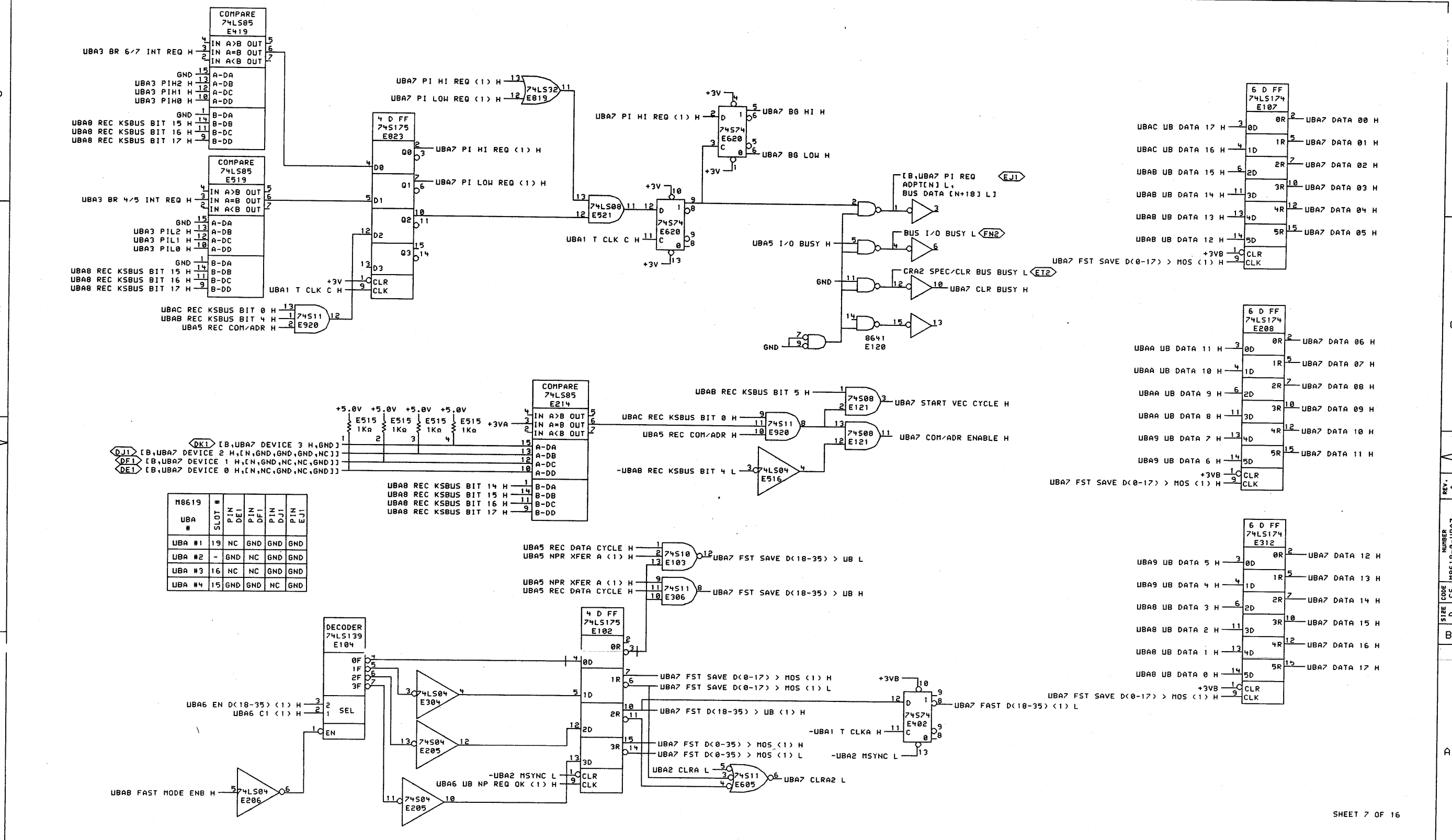
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REVISIONS	
CHK	CHANGE NO. REV.

digital CHK'D	DATE: 07-APR-78	ENG.:	DATE:	TITLE:
	07-APR-78 01:33	BOARD LOCATION:		UNIBUS ADAPTER KS10 BUS REQ
UBA6.DRM[4,650]	07-APR-78 01:33	NEXT HIGHER ASSEMBLY:		
FIRST USED ON OPTION MODEL:	KS10	B-DD-M8619-0	SIZE CODE	NUMBER
			D CS	M8619-0-UBA6

REV.	A
NUMBER	18619-0-UBA6
SIZE CODE	D CS
REV.	A



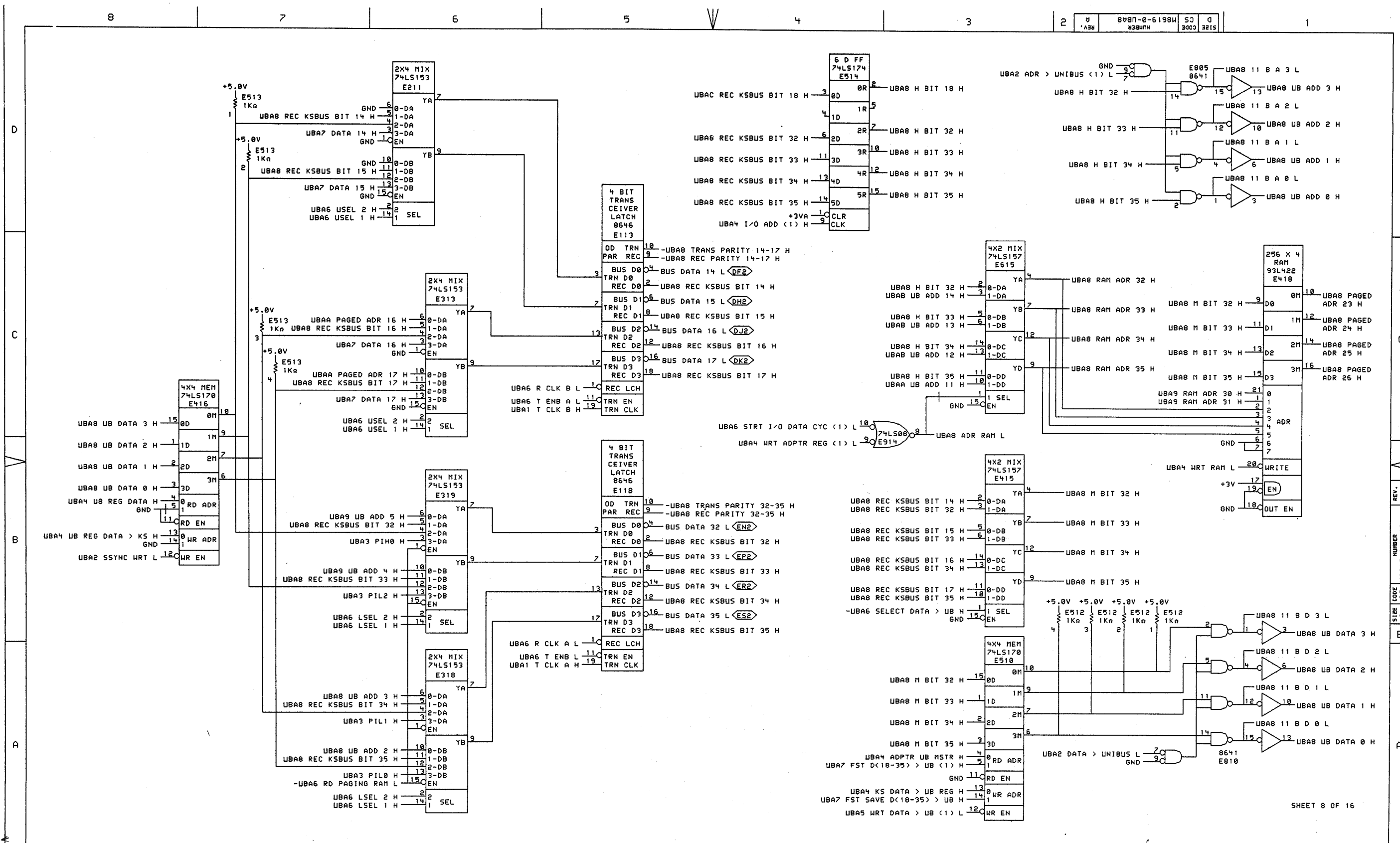


M8619	UBA #	SLOT #	PIN	DEF	PIN	DEF	PIN	DEF
	UBA #1	19	NC	GND	GND	GND		
	UBA #2	-	GND	NC	GND	GND		
	UBA #3	16	NC	NC	GND	GND		
	UBA #4	15	GND	GND	NC	GND		

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRW. J. J. J.	DATE 13-APR-78	ENG. J. J. J.	DATE	TITLE: UNIBUS ADAPTER FAST MODE LOGIC
	CHK'D.	DATE	BOARD LOCATION:	SHEET 1 OF 1	
UBA7.DRW(4,650)		113-APR-78 11:04	NEXT HIGHER ASSEMBLY:	SIZE CODE D CS	NUMBER M8619-0-UBA7
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8619-0		REV. A	



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REVISIONS		
CHK	CHANGE NO.	REV.

UBA8 DRN [4,650]	DATE: 11-APR-78 09:39	DATE: 11-APR-78	DATE: 11-APR-78	TITLE: UNIBUS ADAPTER DATA PATH 1
FIRST USED ON OPTION/MODEL: KS10	NEXT HIGHER ASSEMBLY: B-DD-M8619-0	BOARD LOCATION: 1	SHEET: 1	

SIZE: D	CODE: CS	NUMBER: M8619-0-UBA8	REV.: A
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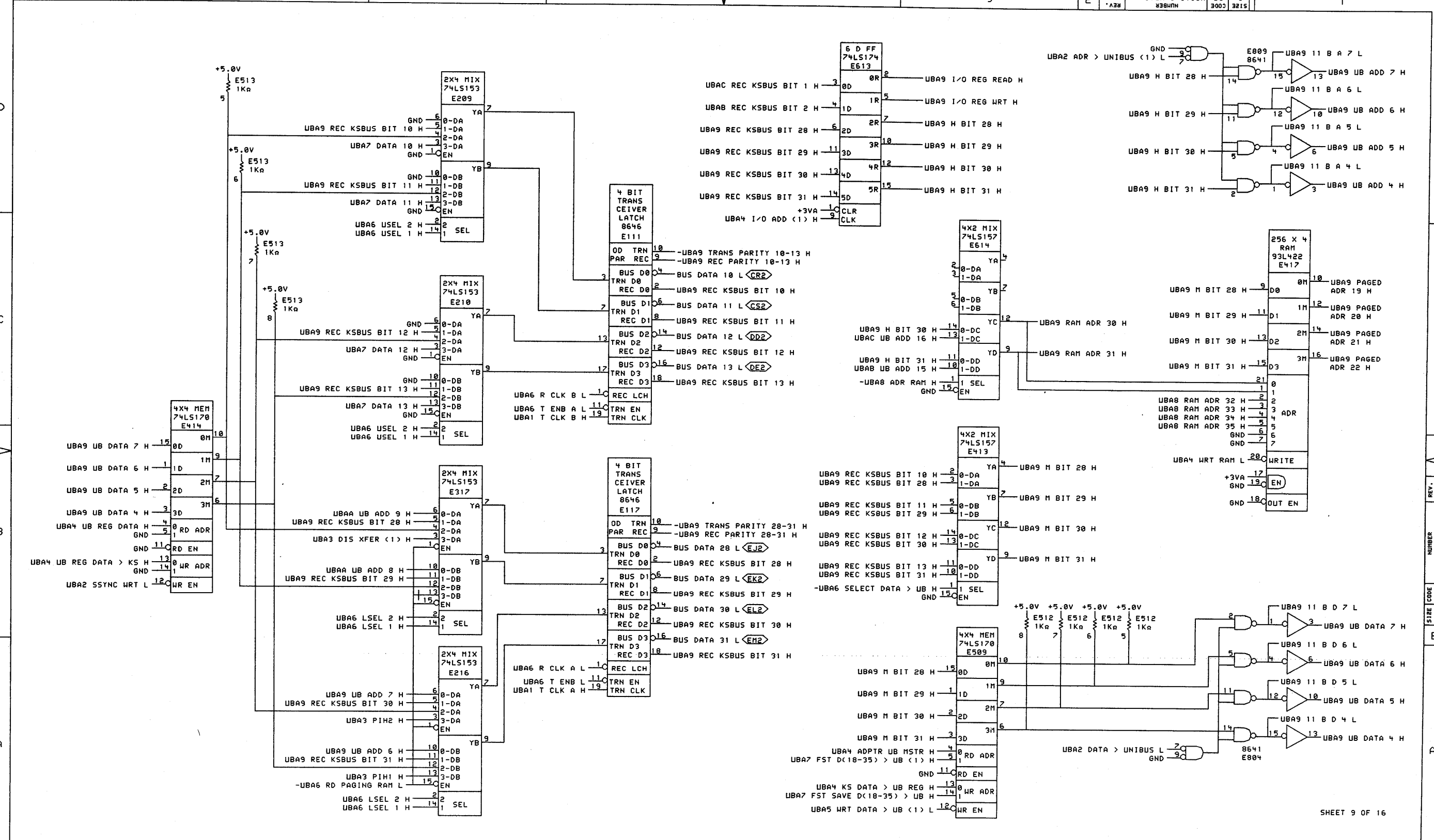
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REV	4	6487-0-1988	CS	D
SIZE	321			



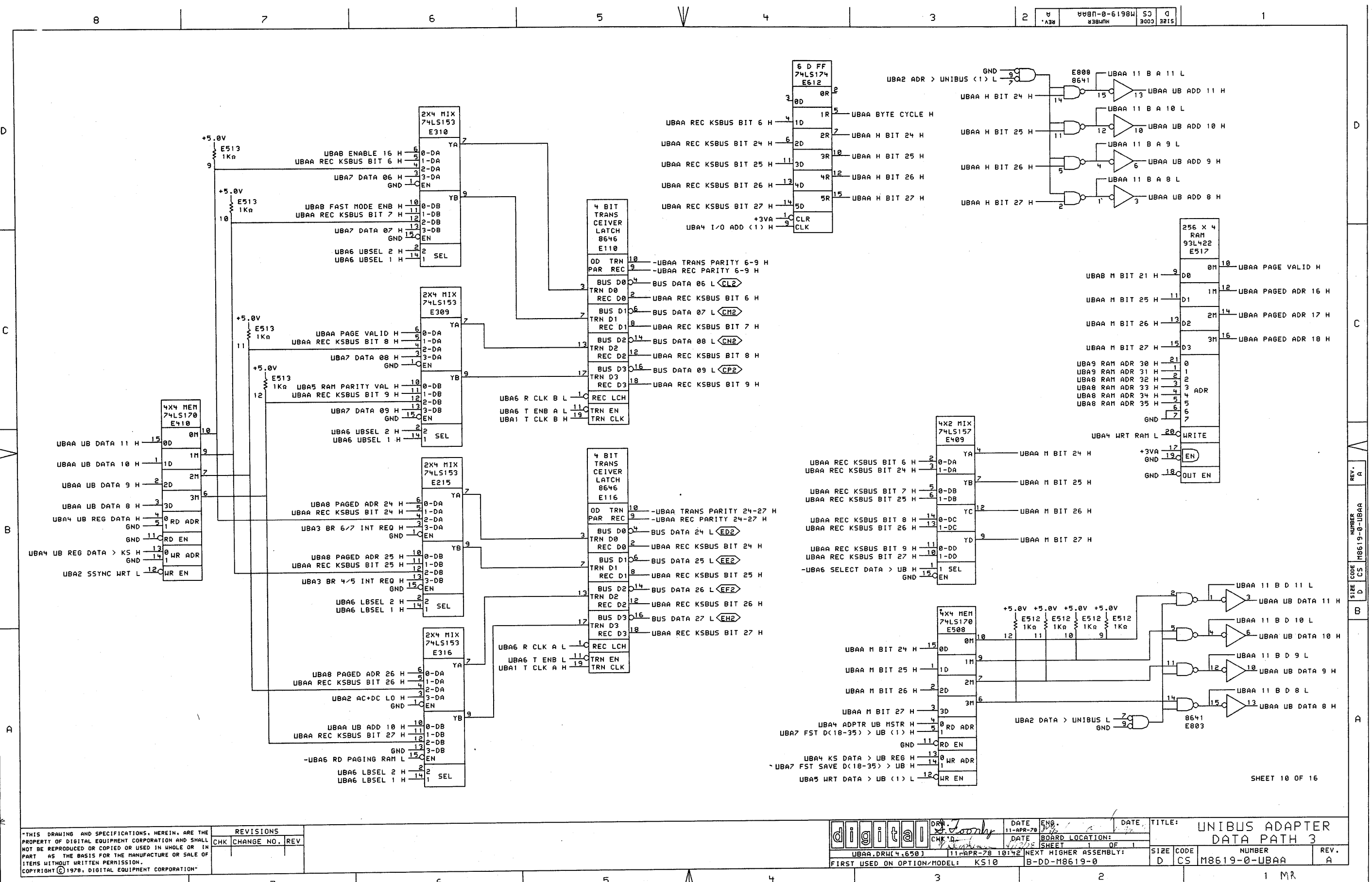
SHEET 9 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

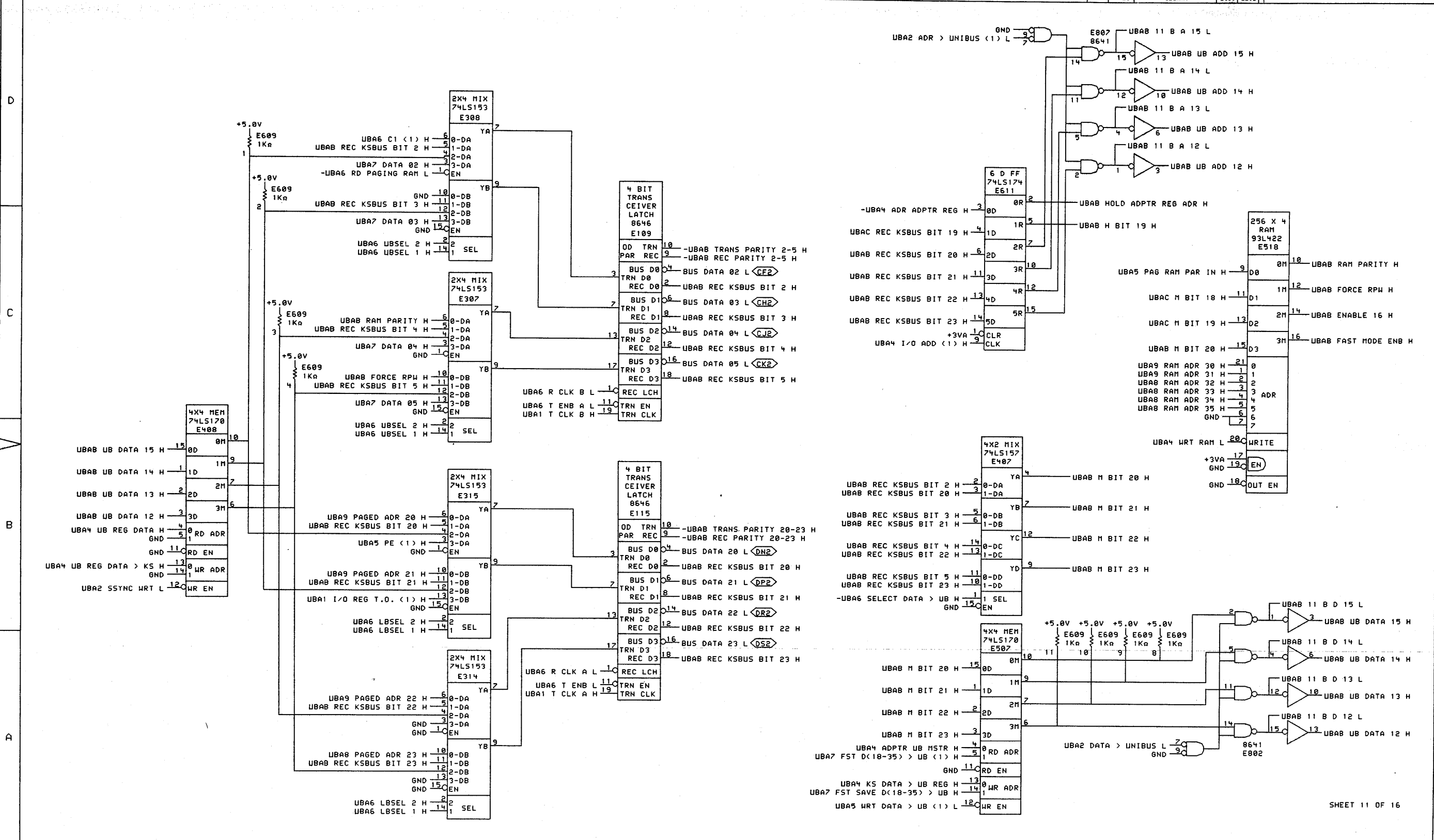
8	7	6	5	4	3	2	1 MR
---	---	---	---	---	---	---	------

	DRW. <i>J. J. J.</i>	DATE 11-APR-78	ENG. <i>J. J. J.</i>	DATE 11-APR-78	TITLE: UNIBUS ADAPTER DATA PATH 2
	CHK'D. <i>J. J. J.</i>	DATE 11-APR-78	BOARD LOCATION: 1 OF 1	SIZE CODE NUMBER REV. D CS M8619-0-UBA9 A	
UBA9.DRM(4,650)		11-APR-78 09:44	NEXT HIGHER ASSEMBLY: B-DD-M8619-0	FIRST USED ON OPTION/MODEL: KS10	



REVISIONS		
CHK	CHANGE NO.	REV

digital	DRW. <i>Looney</i>	DATE 11-APR-78	ENG. <i>Looney</i>	DATE	TITLE: UNIBUS ADAPTER DATA PATH 3
	CHK'D. <i>Looney</i>	DATE 4/17/78	BOARD LOCATION:	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8619-0-UBAA A
FIRST USED ON OPTION/MODEL: KS10			NEXT HIGHER ASSEMBLY: B-DD-M8619-0		



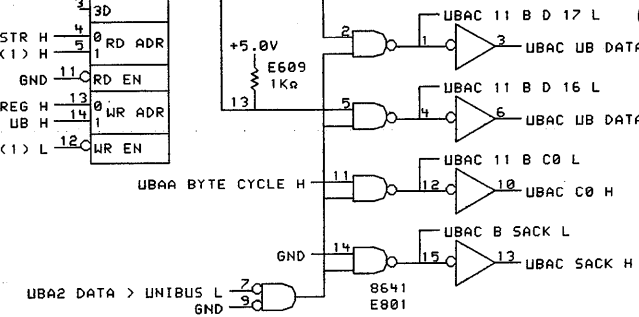
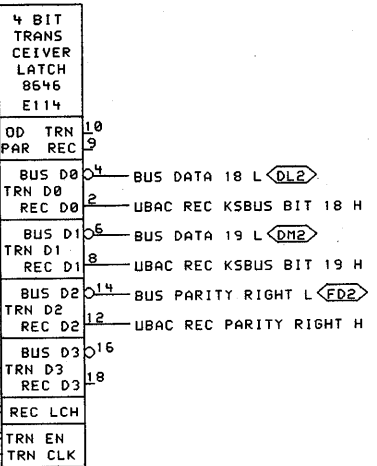
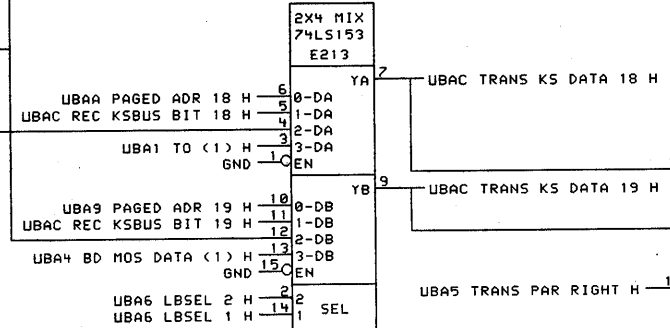
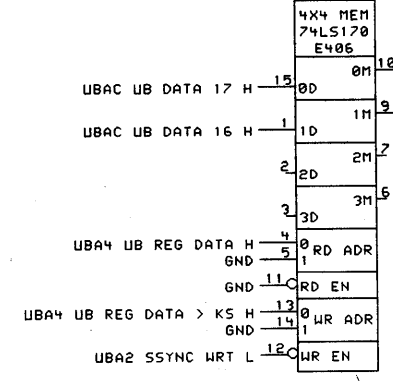
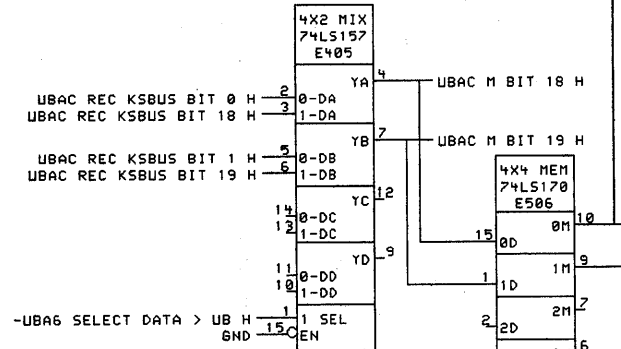
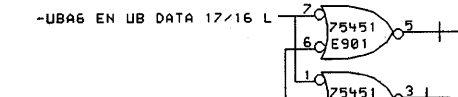
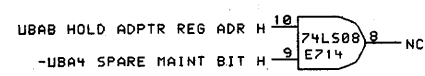
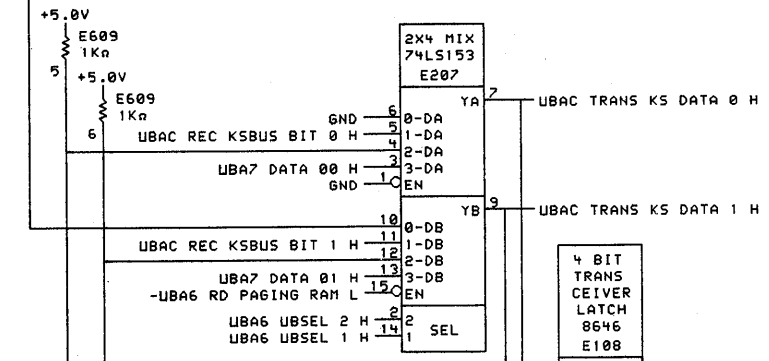
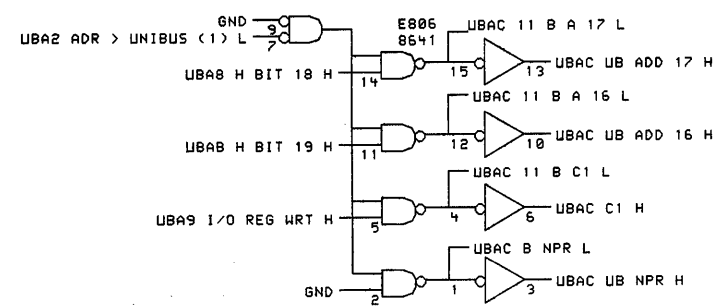
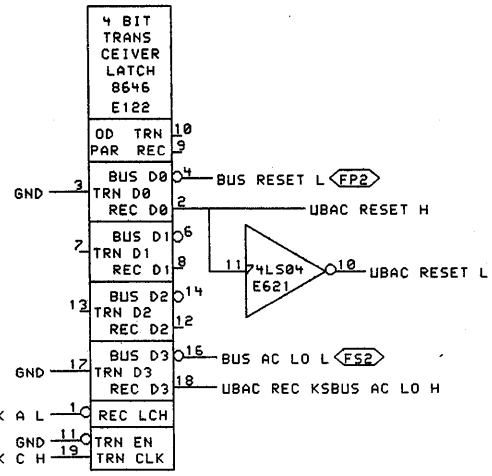
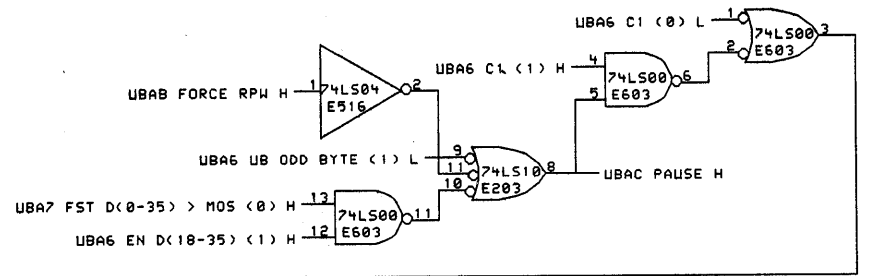
SHEET 11 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

UBAB.DRW(4,650)	11-APR-78 10:37	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL:	K510	B-DD-M8619-0

	DATE: 11-APR-78	ENG.:	DATE:	TITLE: UNIBUS ADAPTER DATA PATH 4
	CHK'D:	BOARD LOCATION:	SHEET 1 OF 1	SIZE CODE: D CS
				NUMBER: M8619-0-UBAB
				REV. A



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REV.	CHG.	NO.	REV.

digital	DRN. J. J...	DATE 07-APR-78	ENG. W. J. J...	DATE	TITLE: UNIBUS ADAPTER DATA PATH 5
	CHK. D.	DATE	BOARD LOCATION:	SHEET 1 OF 1	
UBAC.DRW(4,650)		07-APR-78 01:39	NEXT HIGHER ASSEMBLY:	SIZE D	CODE CS
FIRST USED ON OPTION/MODEL: K510		B-DD-M8619-0	NUMBER M8619-0-UBAC	REV. A	

8

7

6

5

4

3

REV. A	DATE 10-APR-78	ENG. <i>J. Looby</i>	DATE 10-APR-78
SIZE D	CODE CS	NUMBER M8619-0-UBAD	TITLE UNIBUS ADAPTER TERMINATION

1

D

C

B

A

D

C

REV. A

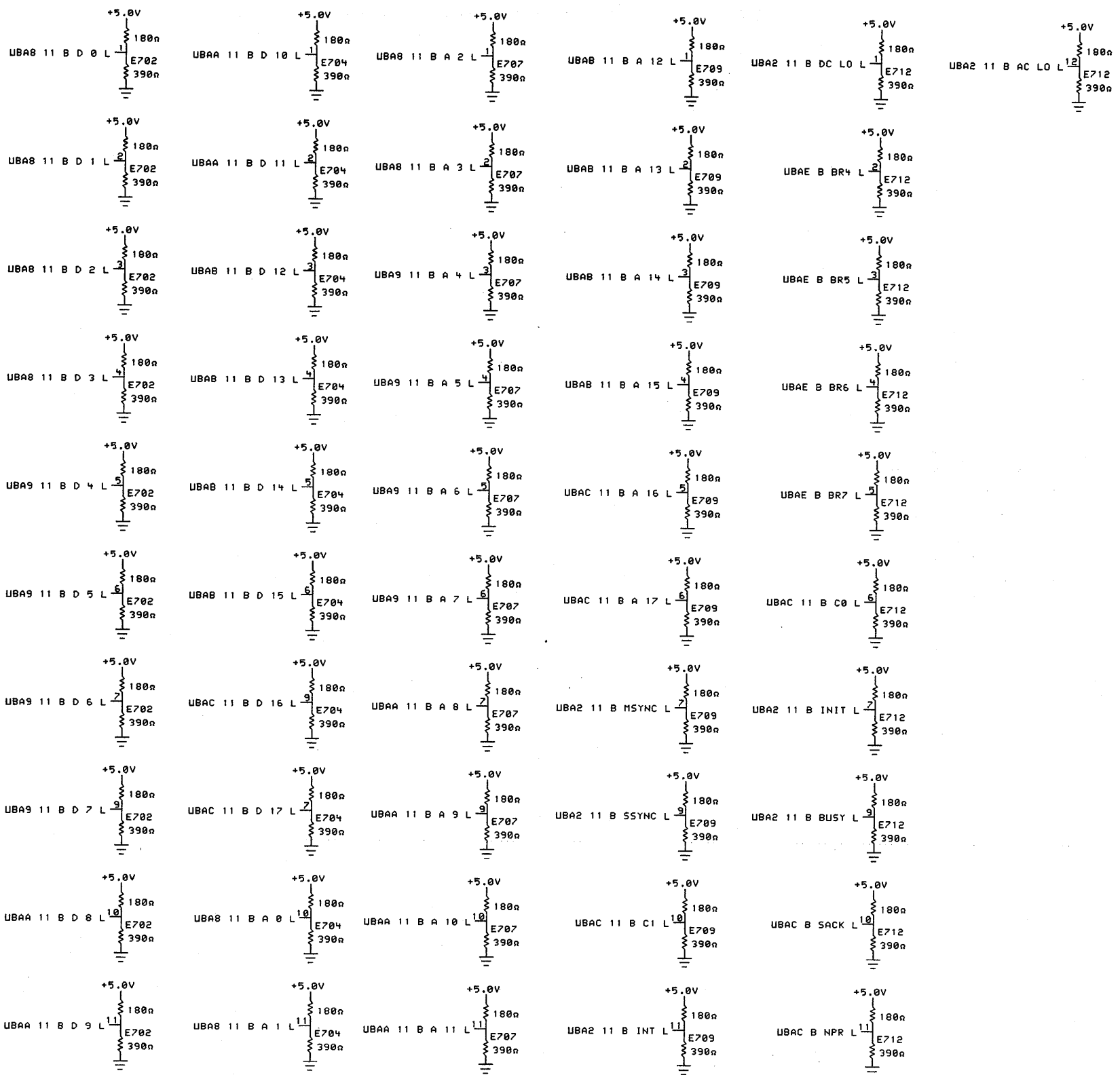
NUMBER M8619-0-UBAD

SIZE D

CODE CS

REV. A

A



SHEET 13 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

**digital** *J. Looby* DATE 10-APR-78  
 CHK'D: *Stephenson* DATE 10-APR-78  
 UBAD.DRW(4,650) 107-APR-78 00:32 NEXT HIGHER ASSEMBLY:  
 FIRST USED ON OPTION/MODEL: KS10 B-DD-M8619-0

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAD	A

8

7

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1 MR

8

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1

REV. A  
SIZE CODE M8619-0-UBAE  
D CS

D

C

B

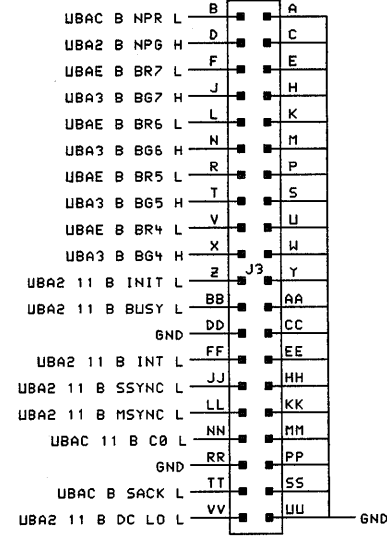
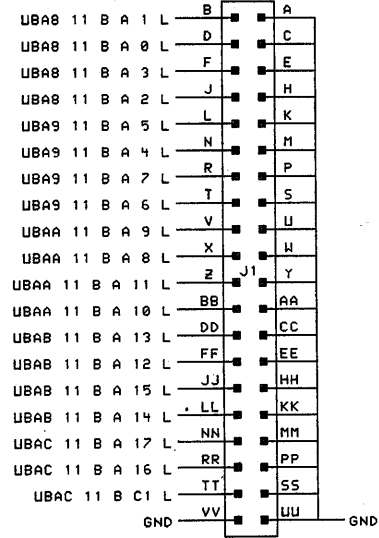
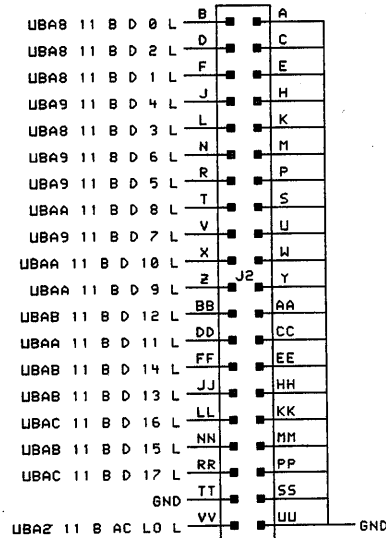
A

D

C

B

A



SHEET 14 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRW. <i>J. J. J.</i>	DATE 5/8	DATE	TITLE: UNIBUS ADAPTER
	CHK'D.	13-APR-78	DATE	UNIBUS CONNECTOR
UBAE.DRW 4,650 J		13-APR-78 16:02	SHEET 1 OF 1	SIZE CODE NUMBER REV.
FIRST USED ON OPTION/MODEL: K510	B-DD-M8619-A	NEXT HIGHER ASSEMBLY:	D CS M8619-0-UBAE	A

8

7

6

5

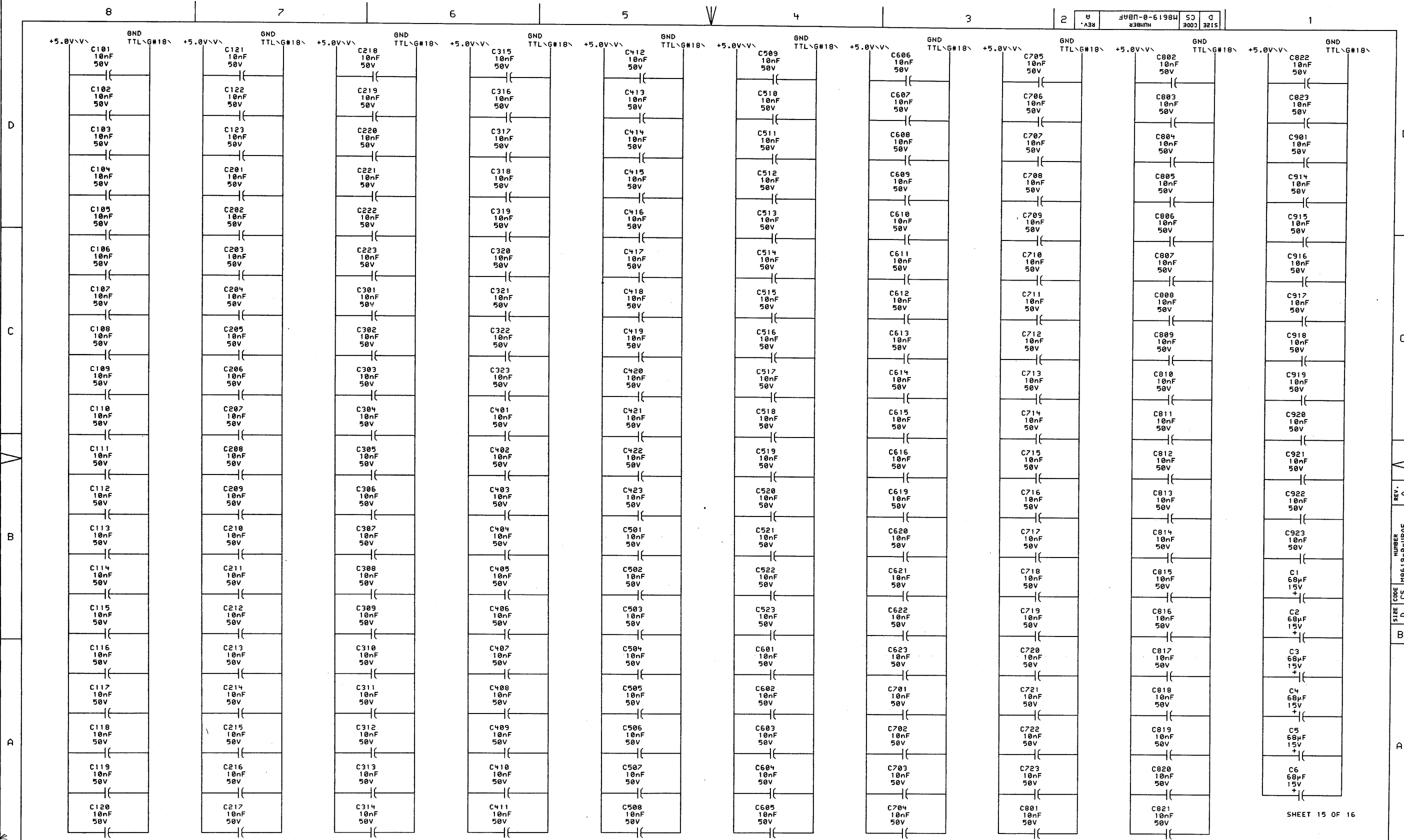
4

3

2

1 MR





SHEET 15 OF 16

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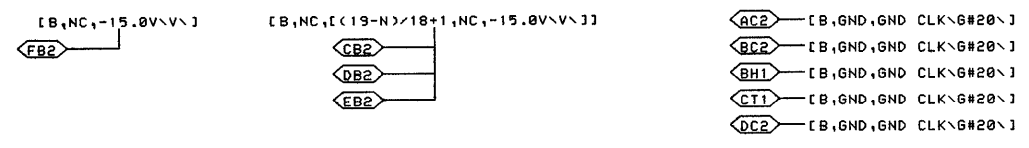
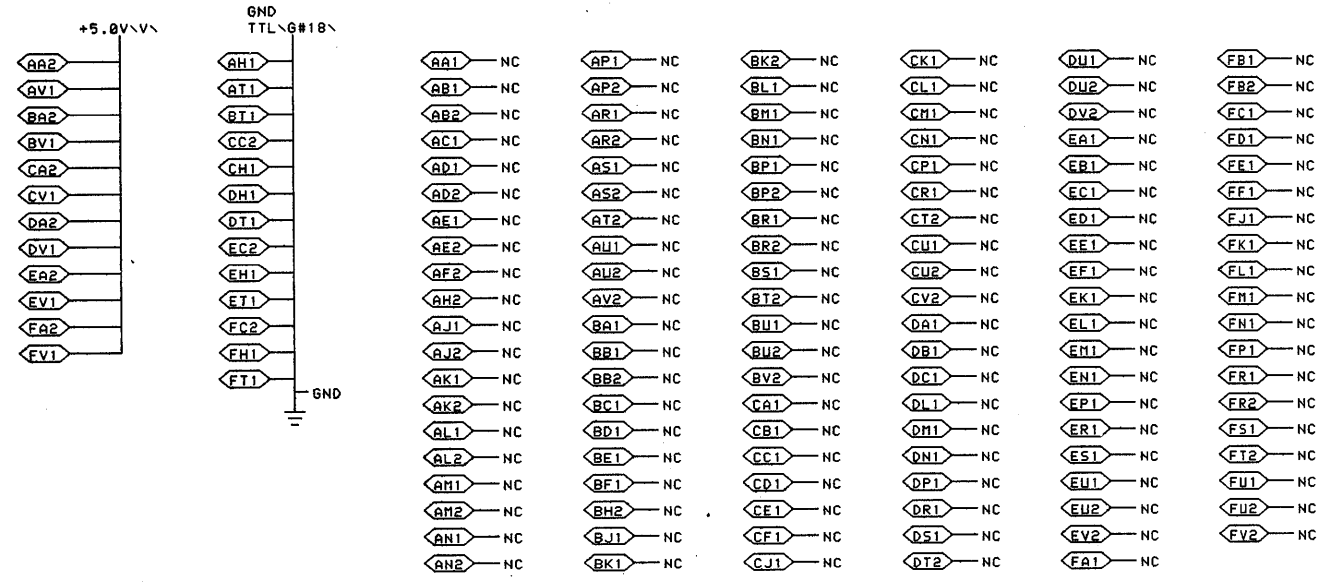
REVISIONS		
CHK	CHANGE NO.	REV.

**digital** DRN: *J. L. L...* DATE: 18-APR-78 ENG: *J. L. L...* DATE: *1/7/78*  
 CHK'D: *J. L. L...* DATE: *1/7/78* BOARD LOCATION: *1*  
 UBAF.DRW(1,650) 107-APR-78 00:34 NEXT HIGHER ASSEMBLY: *1*  
 FIRST USED ON OPTION/MODEL: KS10 B-DD-M8619-0

TITLE: UNIBUS ADAPTER +5.0V CAPS			
SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAF	A

SIZE CODE NUMBER REV. A

8 7 6 5 4 3 2 1 MR



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REVISIONS	
CHK	CHANGE NO. REV.

digital	DRN. J. J. J.	DATE 11-APR-78	ENG. [Signature]	DATE [Signature]	TITLE: UNIBUS ADAPTER POWER, GND PINS
	CHK. D.	DATE [Signature]	BOARD LOCATION: [Signature]	SHEET 1 OF 1	
UBAH.DRW(4,650)		11-APR-78 10:05	NEXT HIGHER ASSEMBLY: B-DD-M8619-0	SIZE CODE D CS	NUMBER M8619-0-UBAH
FIRST USED ON OPTION MODEL: KS10					REV. A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																			
			MODULE REVISION	A																			
E-UA-M8620-0-0	5		KS10 DATA PATH EXECUTE	A																			
K-PL-M8620-0-DBP	2		PARTS LIST DATA BASE (M8620)	A																			
D-CS-M8620-0-DPE1	1		DATA PATH EXEC, DP LEFT	A																			
D-CS-M8620-0-DPE2	1		DATA PATH EXEC, DP RIGHT	A																			
D-CS-M8620-0-DPE3	1		DATA PATH EXEC, DBUS LEFT	A																			
D-CS-M8620-0-DPE4	1		DATA PATH EXEC, DBUS RIGHT	A																			
D-CS-M8620-0-DPE5	1		DATA PATH EXEC, CONTROL	A																			
D-CS-M8620-0-DPE6	1		DATA PATH EXEC, RAMFILE ADDRESS	A																			
D-CS-M8620-0-DPE7	1		DATA PATH EXEC, RAMFILE LEFT	A																			
D-CS-M8620-0-DPE8	1		DATA PATH EXEC, RAMFILE RIGHT	A																			
D-CS-M8620-0-DPE9	1		DATA PATH EXEC, P.C. FLAGS	A																			
D-CS-M8620-0-DPEA	1		DATA PATH EXEC, IR, SKIP & DISP	A																			
D-CS-M8620-0-DPEB	1		DATA PATH EXEC, PRIORITY INTERRUPT	A																			
D-CS-M8620-0-DPEC	1		DATA PATH EXEC, POWER, GND, CAPS	A																			
E-MD-5013195-0-0	7		DRILL WIRE & COMP SCREEN DRAWING	A																			
	-	5013195	MULTIWIRE BOARD	A																			
K-PC-M8620-0-DBC	-		MULTIWIRE DATA BASE (M8620)	A																			
	-																						
POO-M8620-0-0	-		PROCESS SHEET	REF																			

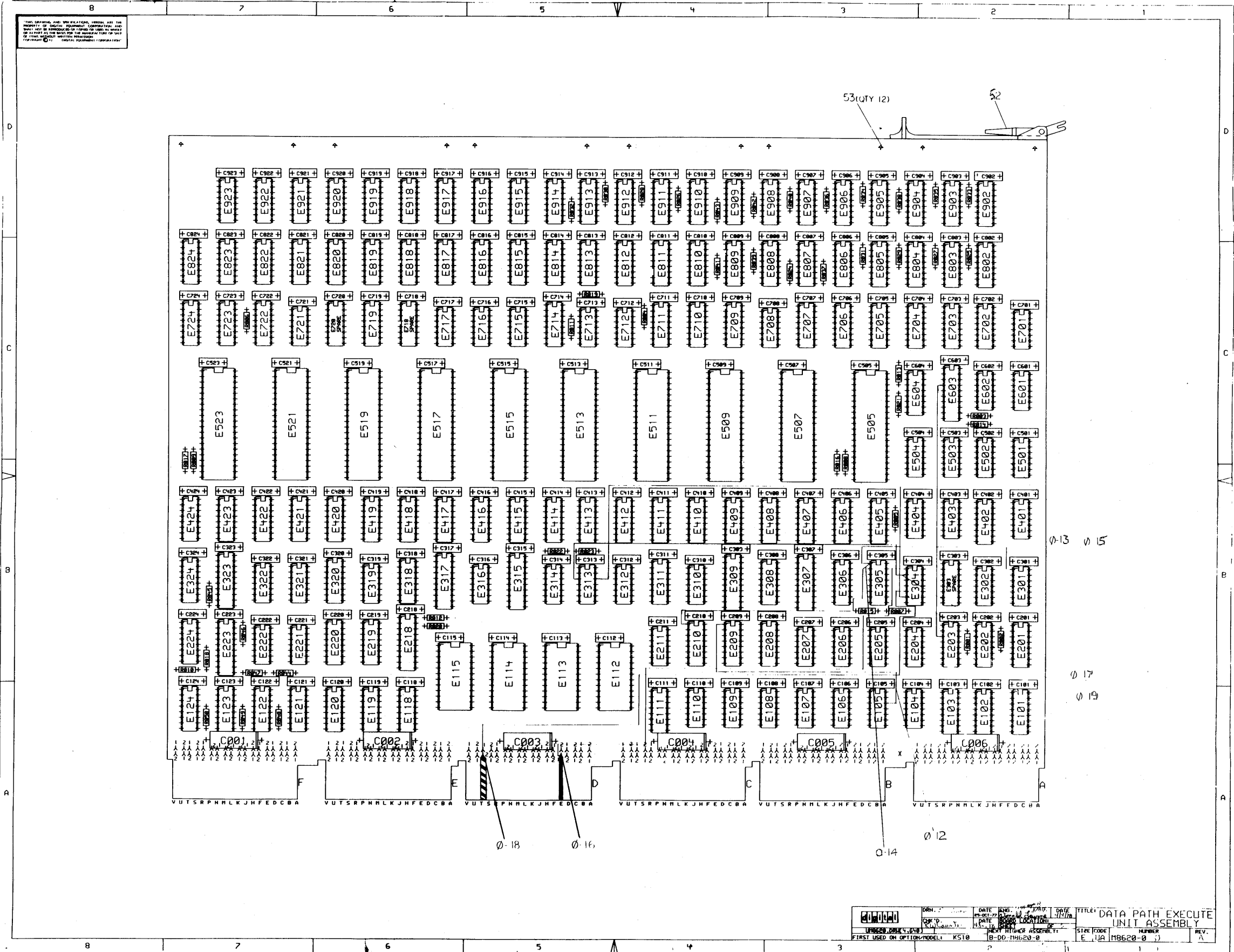
**NOTES:**

DATE	CHG NO.	REV.
		X
	ORIG	

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		KS10	CHK'D <i>B. Counter</i>	13 Mar 78	SIZE	CODE	NUMBER	REV.
			ENG. <i>Donald Levine</i> 10/24/75	4 APR 78	B	DD	M8620-0	A
			PROD <i>W. Bishop</i>	4 Apr 78	SHEET 1 OF 2			

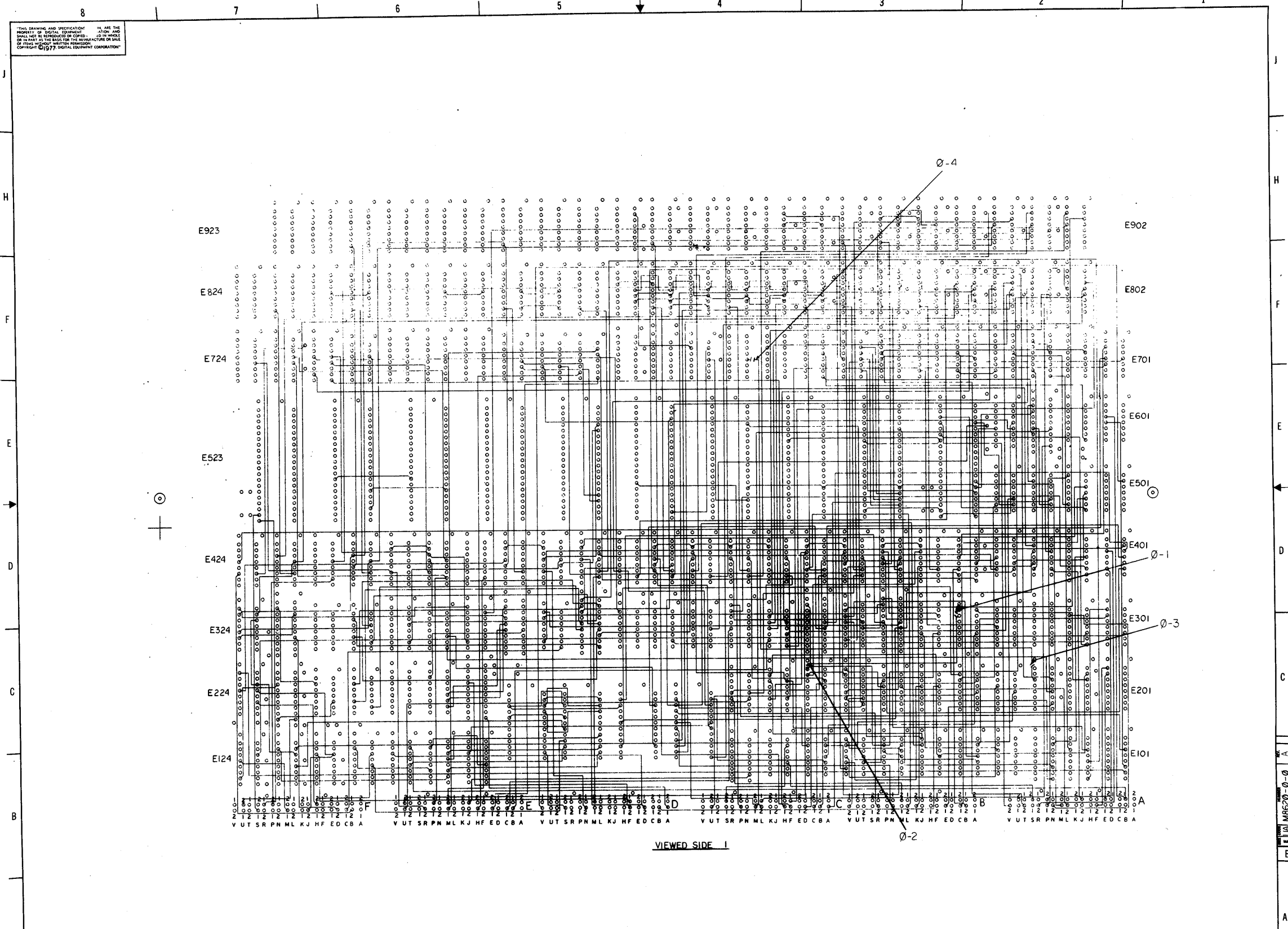


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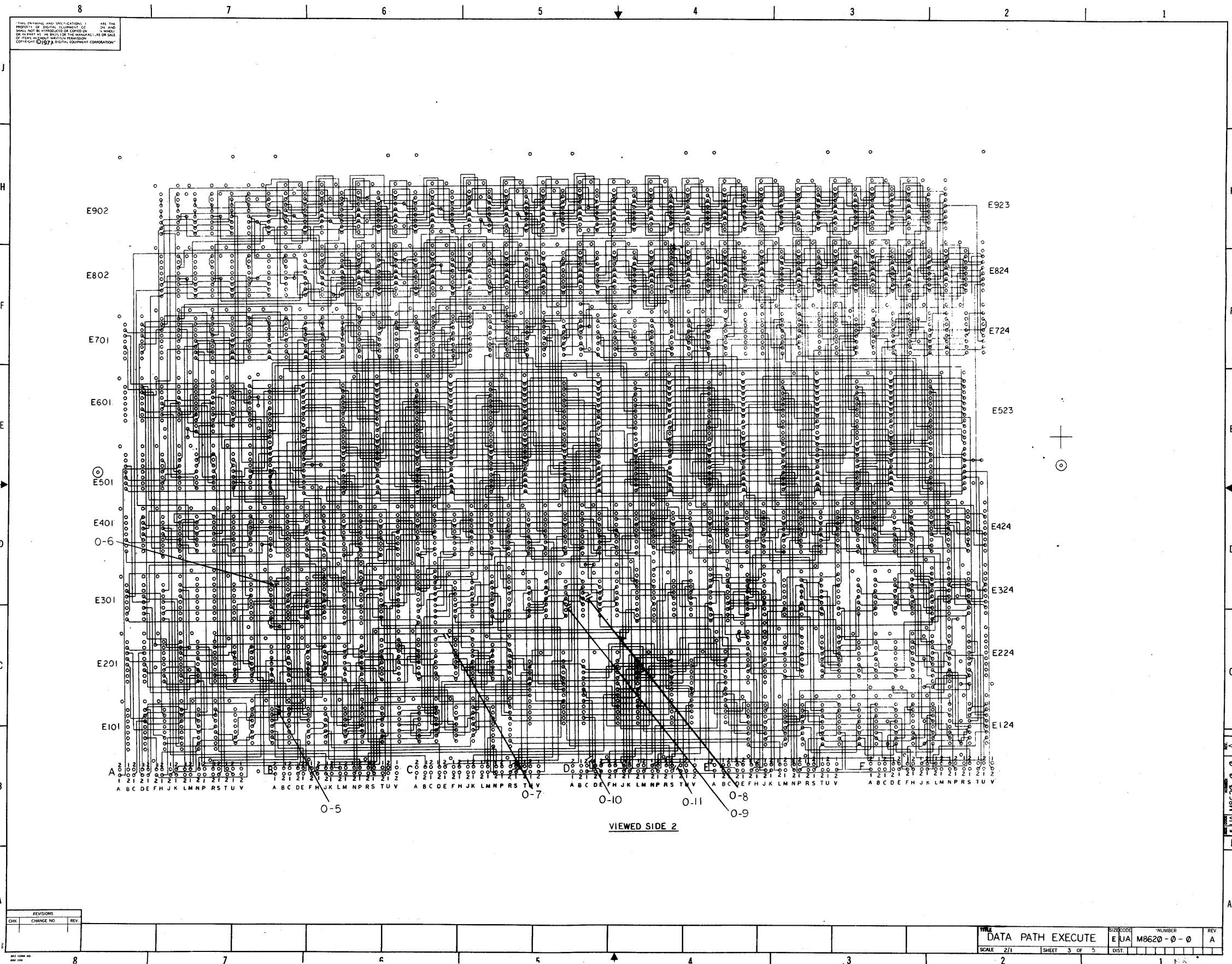
DATE	REV.	DATE	REV.	TITLE
11/17/70	1	11/17/70	1	DATA PATH EXECUTE UNIT ASSEMBLY
DESIGNED BY	CHK'D BY	DATE	REV.	SIZE
W. J. HARRIS	J. J. HARRIS	11/17/70	1	11A
FIRST USED ON OPTION MODEL	NUMBER	REV.		
K510	B-DD-114620-0	A		

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REVISIONS		
CHR	CHANGE NO.	REV.

<b>FILE</b>	<b>TITLE</b>	<b>SIZE/GRID</b>	<b>NUMBER</b>	<b>REV</b>
	<b>DATA PATH EXECUTE</b>	E UA	M8620-0-0	A
<b>SCALE</b>		<b>SHEET</b>		<b>DIST.</b>
2/1		2 OF 5		
1				MK

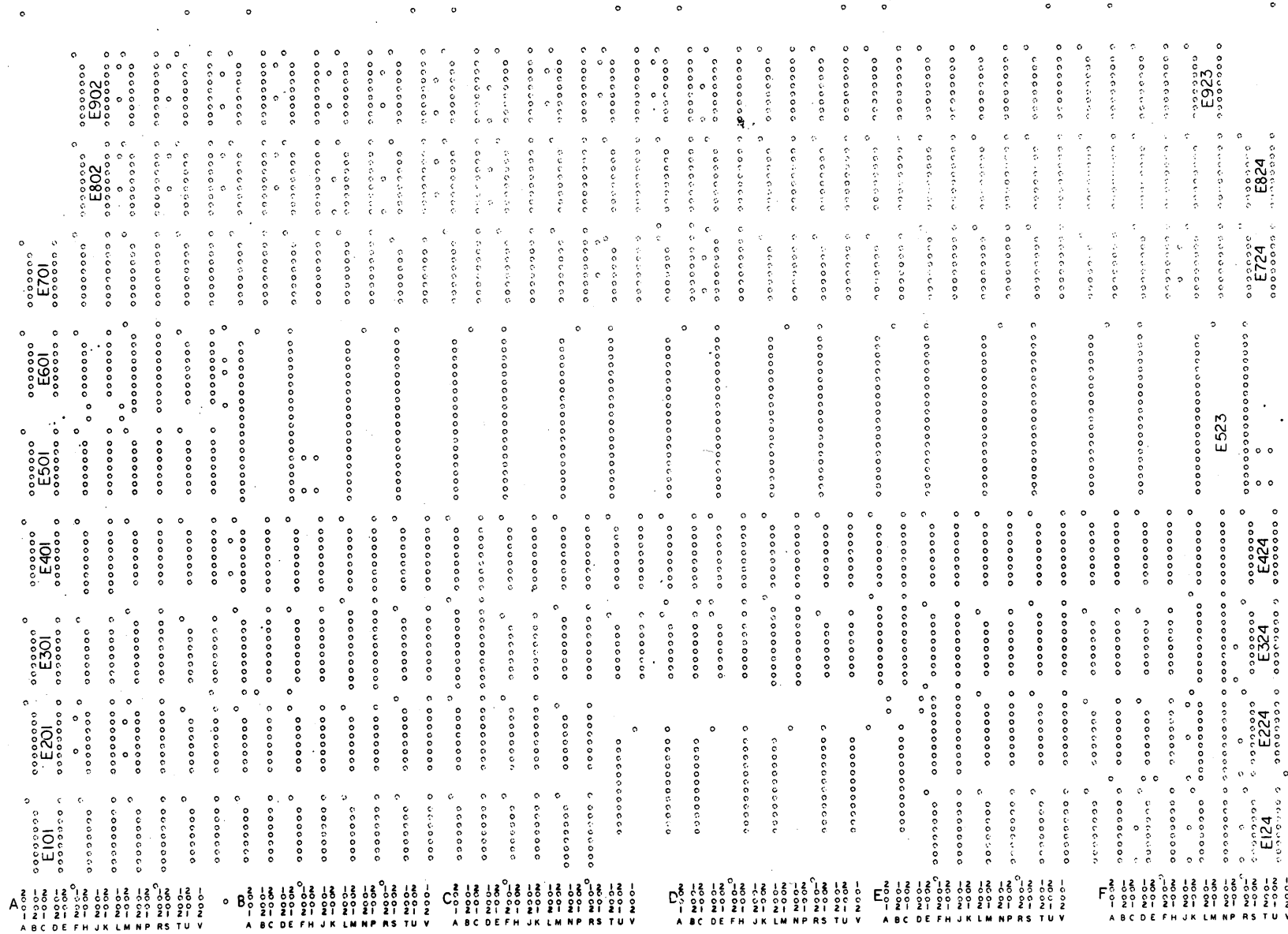


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REVISIONS		
CHR	CHANGE NO	REV

TITLE: DATA PATH EXECUTE  
 SCALE: 2/1  
 SHEET: 3 OF 5  
 DIST:   
 NUMBER: M8620-0-0  
 REV: A

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VIEWED SIDE 2



REVISIONS		
CHK	CHANGE NO	REV

DATA PATH EXECUTE		SIZE CODE	NUMBER	REV
EUA		M8620-0-0	A	A
SCALE 2/1	SHEET 4 OF 5	DIST.	1	18

EUA M8620-0-0 A



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NOTES:

1. FOR DRAWING DIRECTORY SEE E-DD-M8620-0.
2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:  

PACKAGE TYPE	+5.VV	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
20 PIN DIP	20	10
24 PIN DIP	24	12
40 PIN DIP	10	30
DEC 8646	20	5,15
3. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
4. MAXIMUM COMPONENT HEIGHT IS .278
5. FINISHED HOLE SIZES ARE AS FOLLOWS, IN INCHES:  

T	-.037 ± .003
F	+.133 ± .002, -.007
X	+.100 ± .003
A	+.025 ± .003, -.006
6. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON

REWORK INSTRUCTION  
FIRST RELEASE

ETCH CUTS, SIDE #1, AS SHOWN:

- O-1 AT E305-1
- O-2 AT E209-1
- O-3 AT E203-3
- O-4 AT E711-12

ETCH CUTS, SIDE #2, AS SHOWN:

- O-5 AT E105-12
- O-6 AT E305-1
- O-7 AT E205-1
- O-8 AT E313-3
- O-9 AT E313-12
- O-10 AT FINGER PIN DE1 PTH
- O-11 AT FINGER PIN DT2 PTH

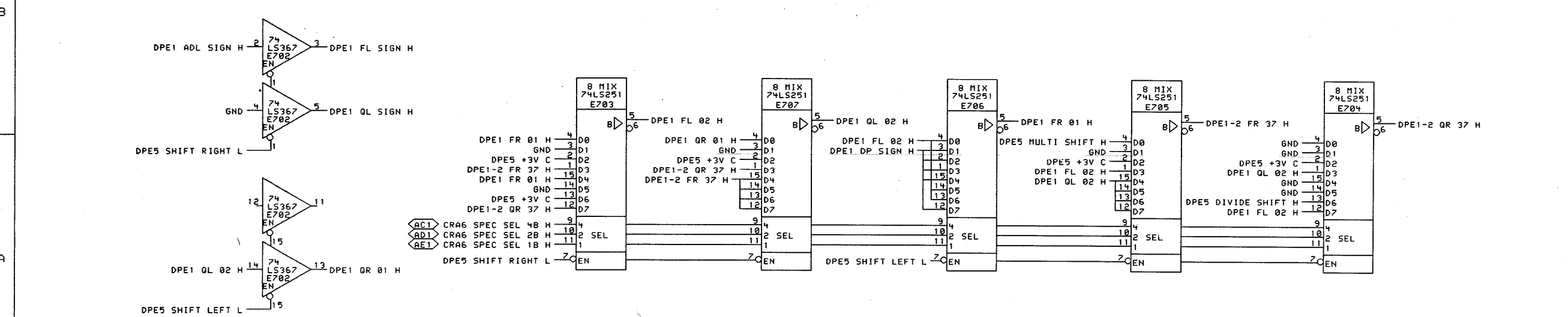
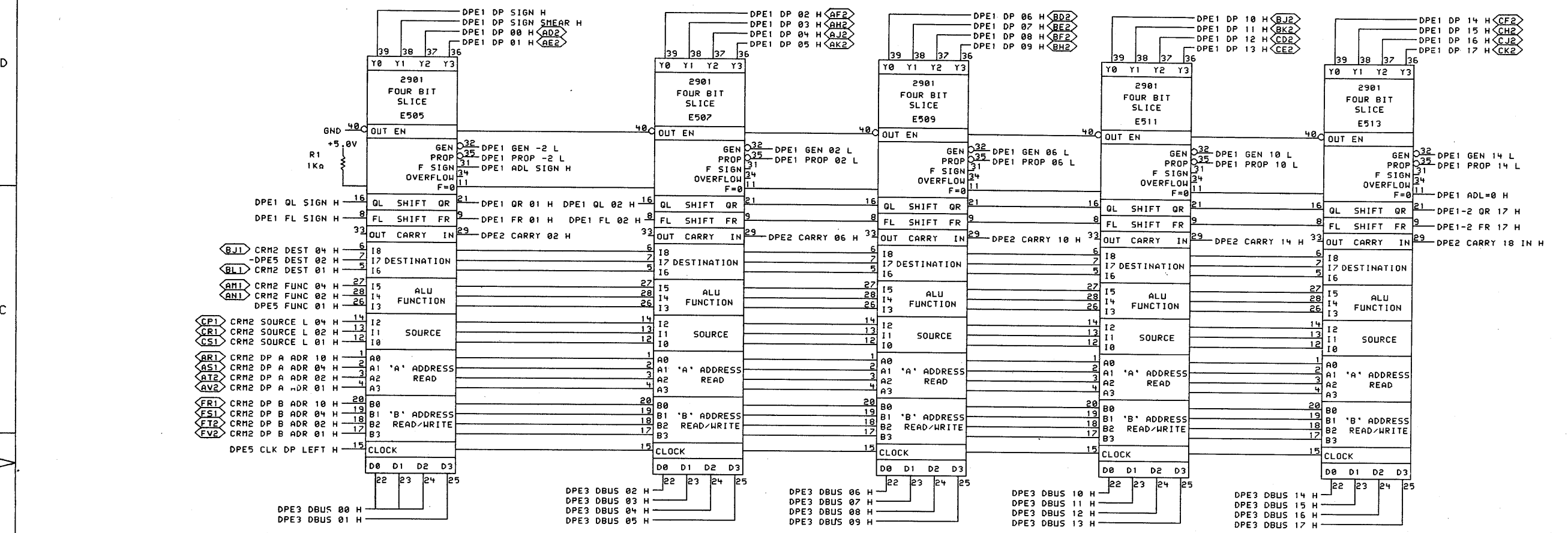
WIRE ADDS, SIDE #1, AS SHOWN

- O-12 FROM E105-12 TO E209-1
- O-13 FROM E301-1 TO E305-1
- O-14 FROM E305-1 TO E210-1
- O-15 FROM E203-3 TO E603-4
- O-16 FROM E304-1 TO FINGER PIN DE1 PTH
- O-17 FROM E304-2 TO E313-3
- O-18 FROM E304-5 TO FINGER PIN DT2 PTH
- O-19 FROM E304-6 TO E313-12

CHK	CHANGE NO.	REV.

TITLE	DATA PATH EXECUTE	SIZE/CODE	NUMBER	REV.
SCALE	1:1	SHEET	5 OF 5	DIST.
EJA		M8620-C-C	A	A

EJA M8620-C-C A

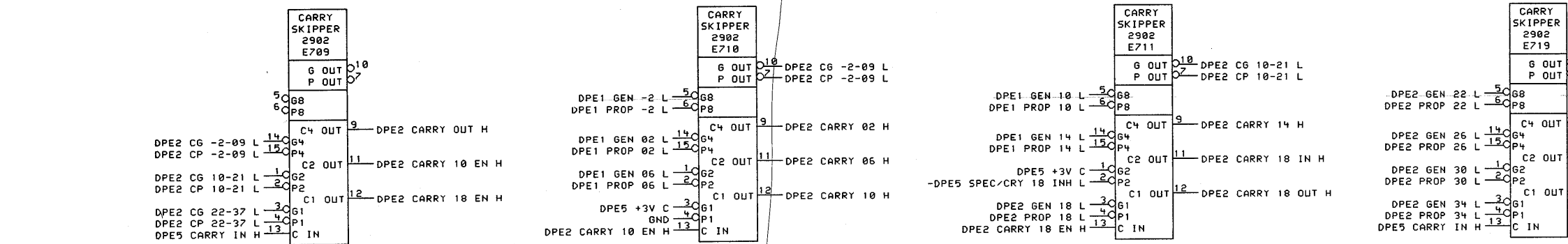
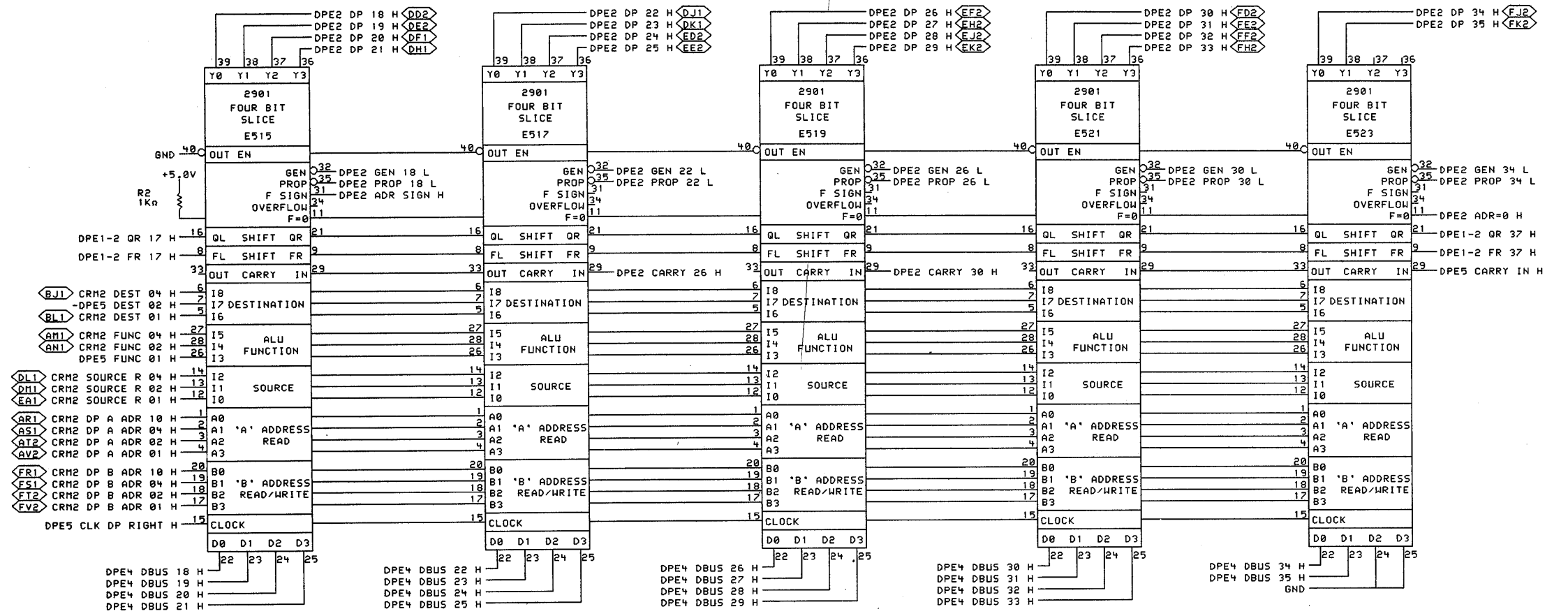


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REVISIONS		
CHK	CHANGE NO.	REV

8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---

digital	DATE	29-MAR-78	DATE	1.1.18	TITLE:	DATA PATH EXEC
	CHK'D	J. J. J.	DATE	3/24/78	BOARD LOCATION:	1AF13
DPE1.DRW(4,651)		28-MAR-78	23:25	NEXT HIGHER ASSEMBLY:	SIZE	CODE
FIRST USED ON OPTION/MODEL:		KS10	B-DD-M8620-0		NUMBER	REV.
					D	CS
					M8620-0-DPE1	A

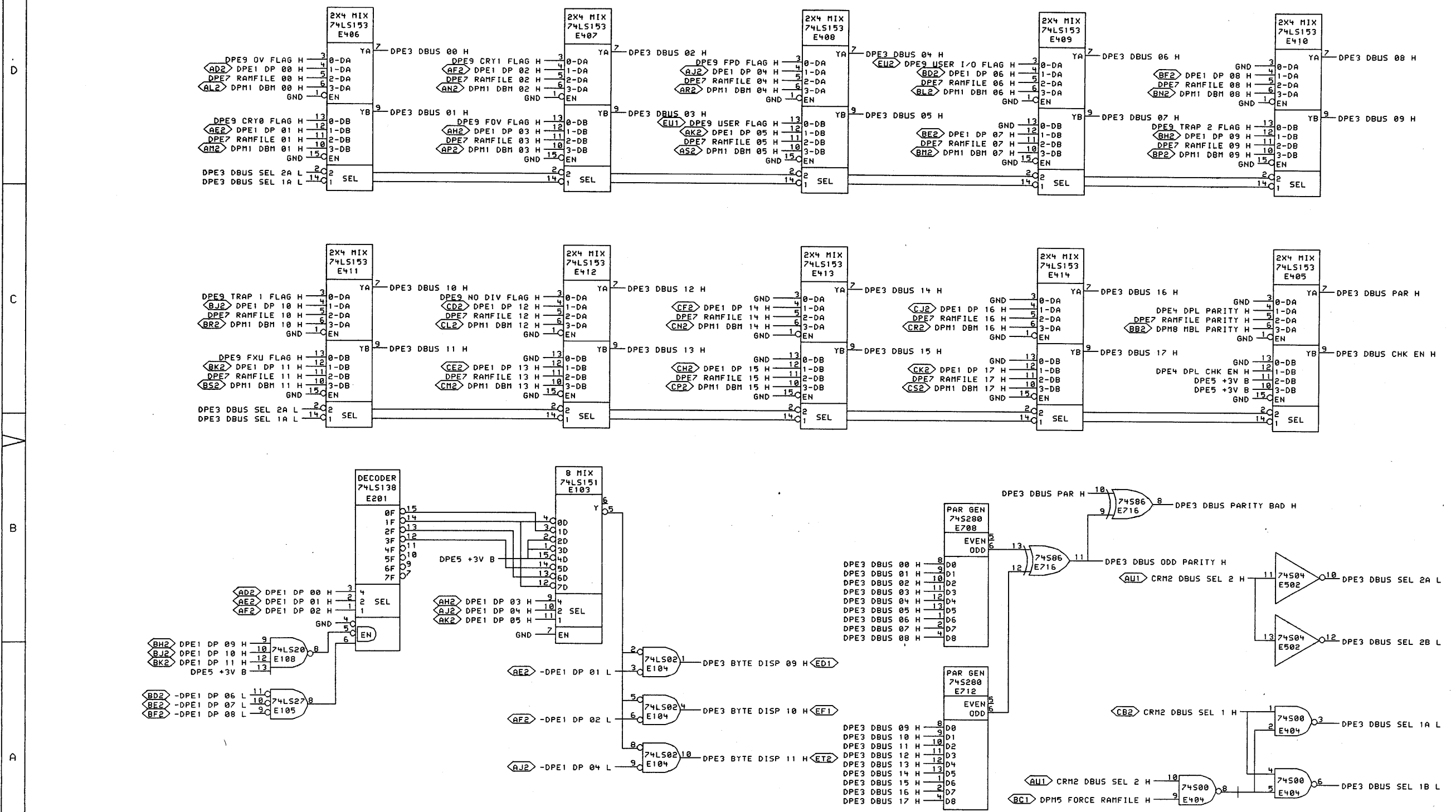


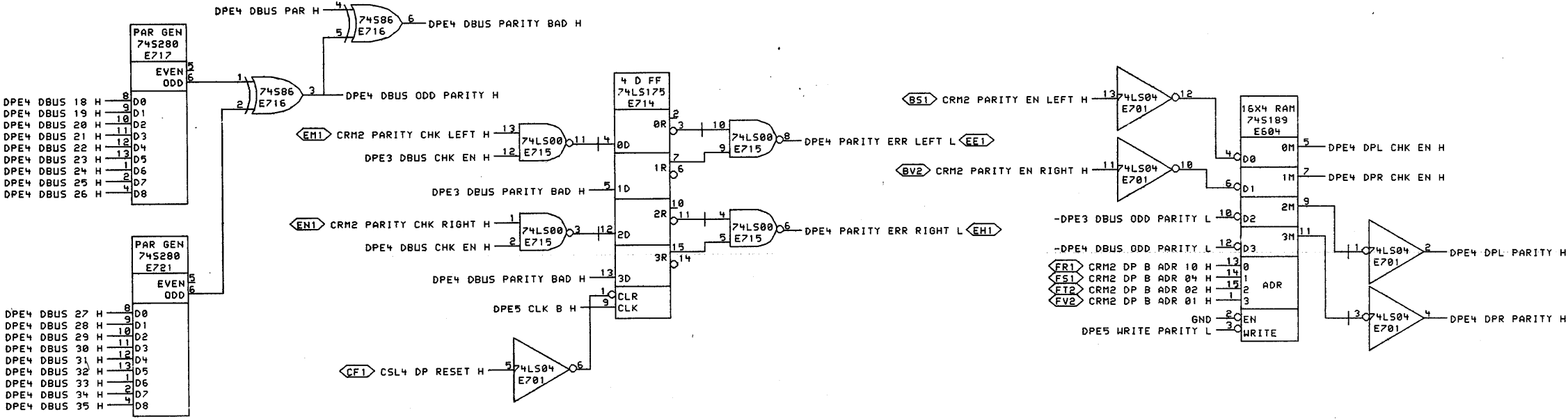
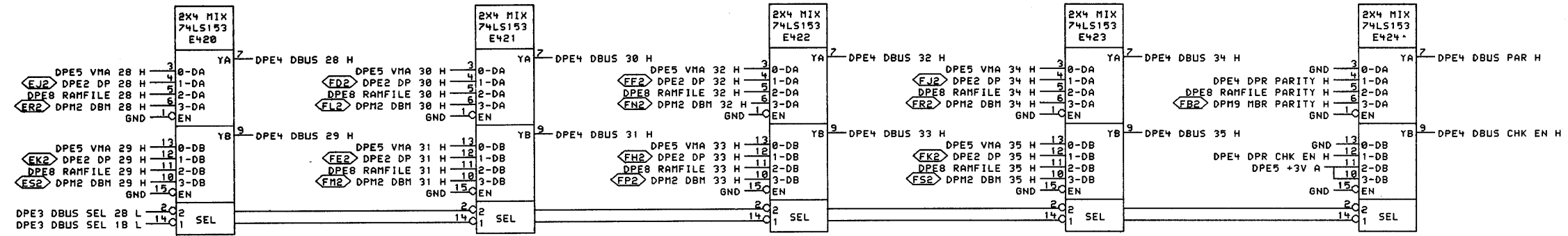
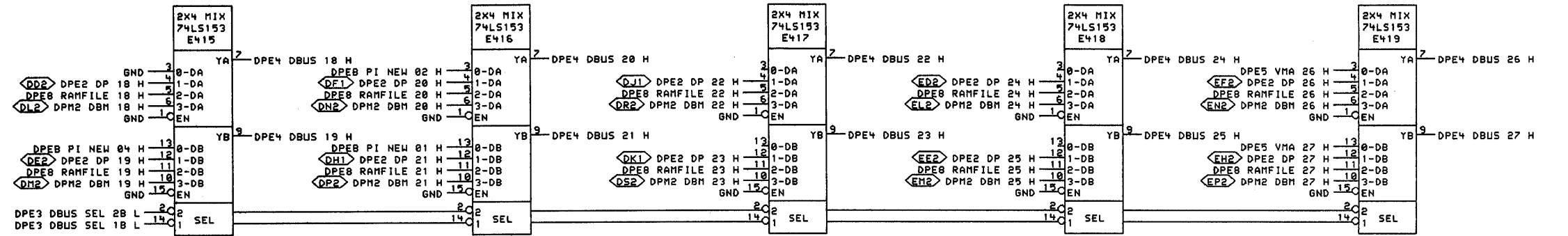
SHEET 2 OF 12

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REVISIONS	
CHK	CHANGE NO. REV

<b>digital</b>	DATE	29-MAR-78	ENG.	J. J. J.	DATE	1, 1, 12	TITLE: DATA PATH EXEC DP RIGHT
	CHK'D	J. J. J.	DATE	29-MAR-78	BOARD LOCATION	1A1F3	
DPE2.DRW(4,651)		128-MAR-78	23:27	SHEET	1	OF	1
FIRST USED ON OPTION/MODEL: K510		NEXT HIGHER ASSEMBLY: B-DD-M8620-0		SIZE	D	CODE	CS
NUMBER				M8620-0-DPE2	REV.	A	

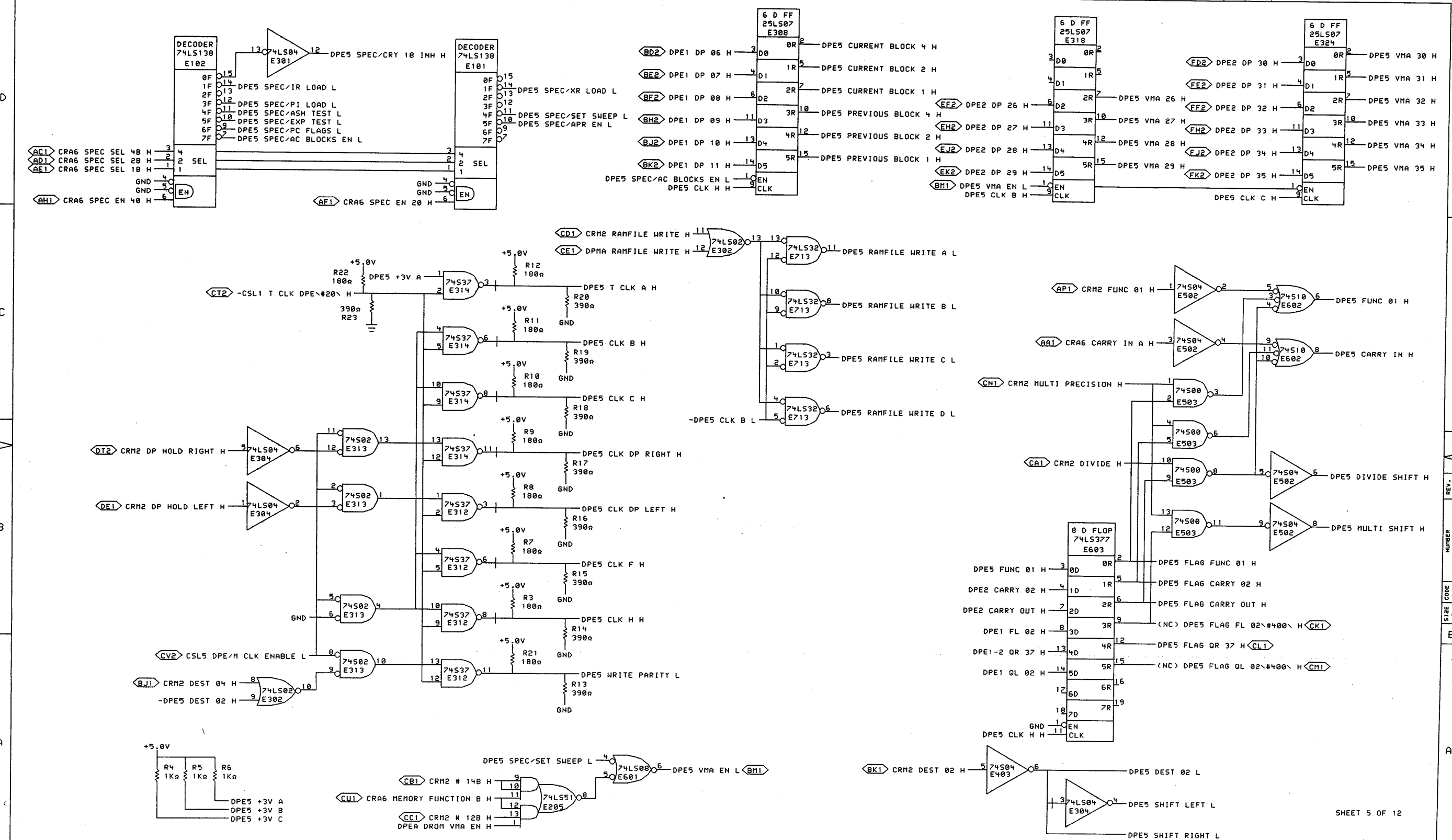




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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN. J. J. J.	DATE 14-MAR-78	ENG. [Signature]	DATE	TITLE: DATA PATH EXEC DBUS RIGHT
	CHK'D.	DATE 14-MAR-78 18:57	BOARD LOCATION: 1AF13	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS 18620-0-DPE4 A
FIRST USED ON OPTION/MODEL: K510		NEXT HIGHER ASSEMBLY: B-DD-18620-0			

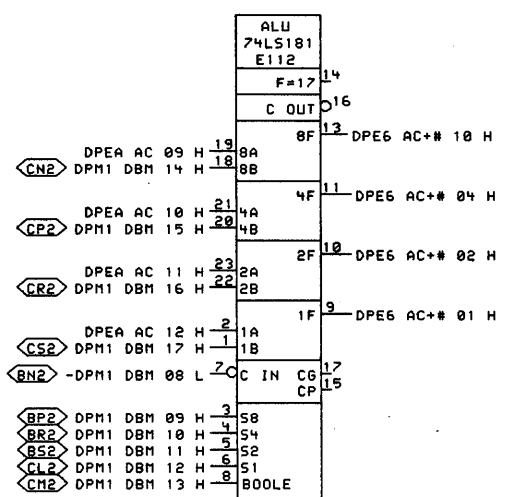
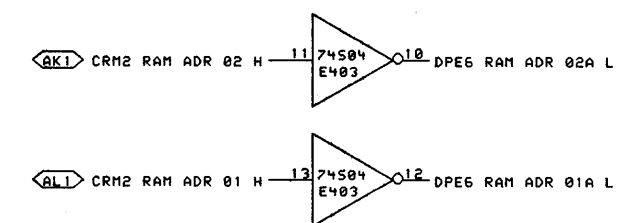
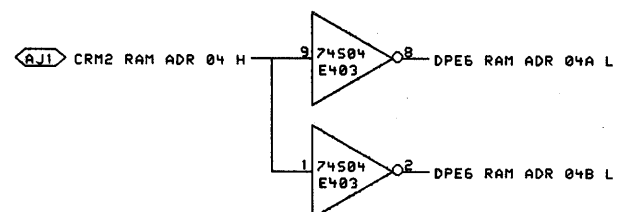


SHEET 5 OF 12

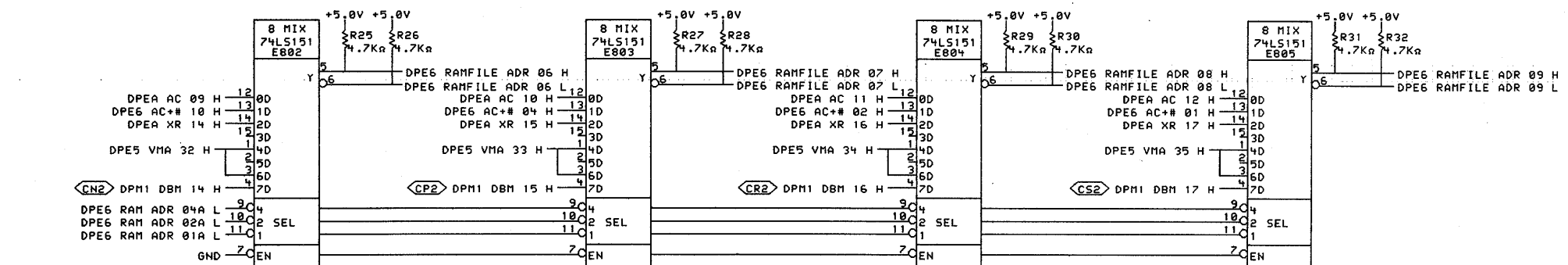
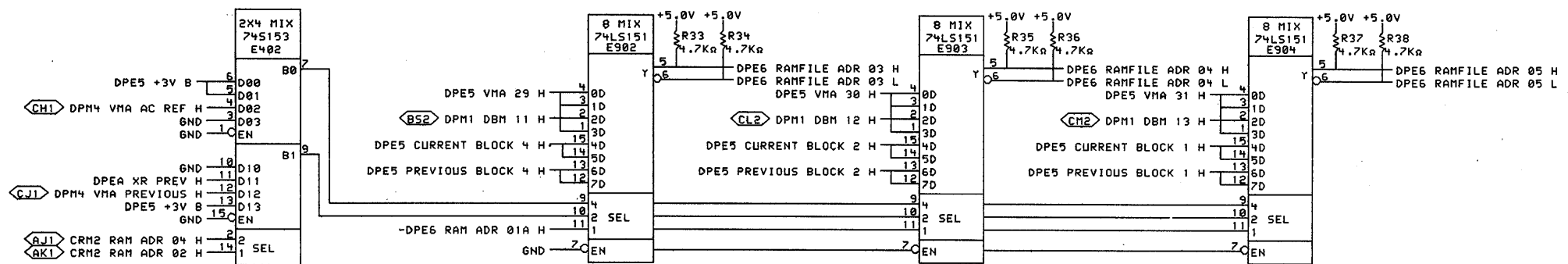
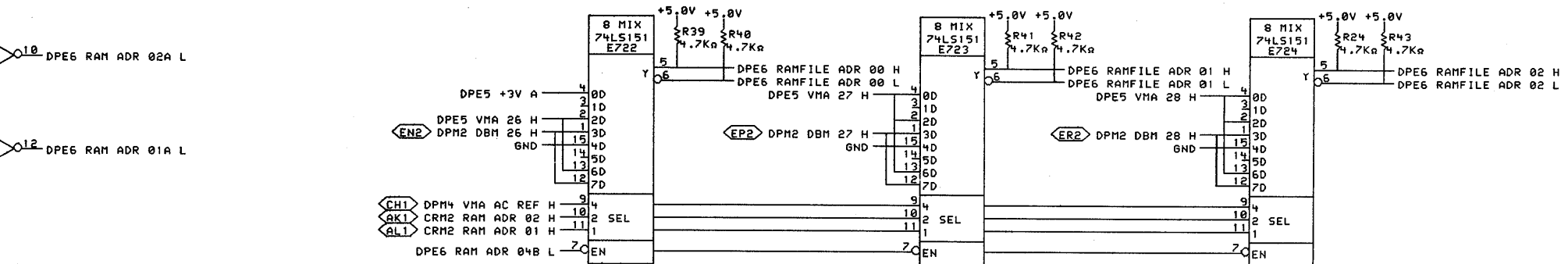
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REVISIONS		
CHK	CHANGE NO.	REV

	DRW. <i>J. J. J.</i>	DATE 29-MAR-78	ENG. <i>J. J. J.</i>	DATE	TITLE: DATA PATH EXEC CONTROL
	CHK'D.	DATE	BOARD LOCATION: 1AF13	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8620-0-DPE5 A
DPE5.DRW(4,651)		28-MAR-78 23:31	NEXT HIGHER ASSEMBLY:		
FIRST USED ON OPTION MODEL: KS10		B-DD-M8620-0			



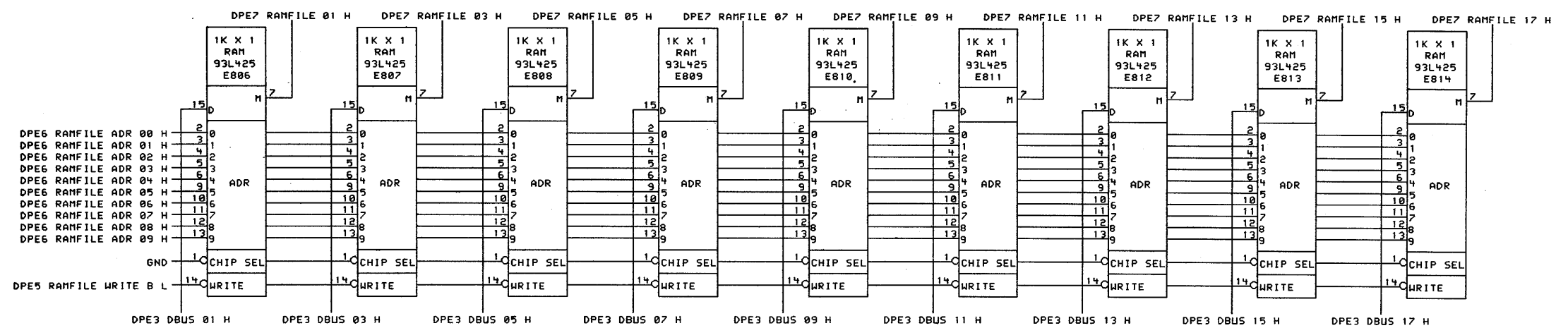
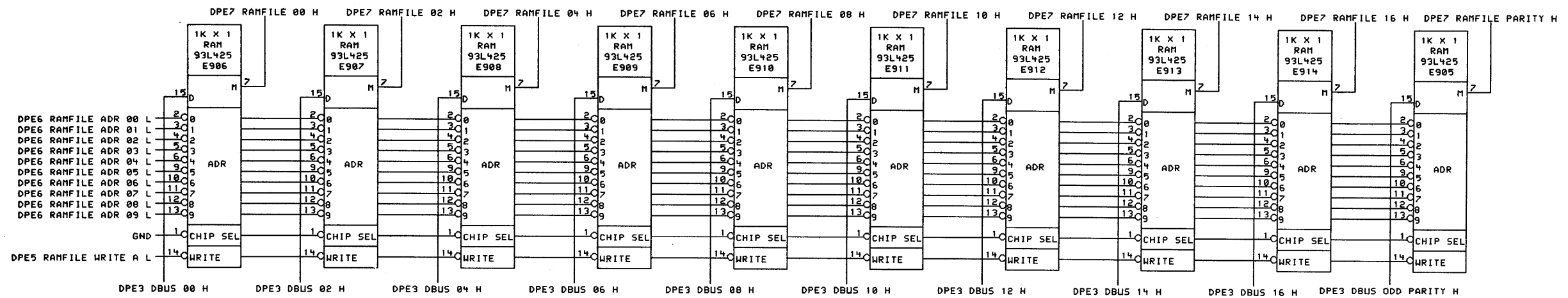
CRM2	FUNCTION	BLOCK
0	AC	CURRENT
1	AC .FN. #	CURRENT
2	XR	XR BLOCK
3	-	-
4	CACHE	VMA BLOCK
5	VMA	VMA
6	-	-
7	#	#



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REVISIONS		
CHK	CHANGE NO.	REV.

	DATE 14-MAR-78	ENG. J. J. J.	DATE	TITLE: DATA PATH EXEC RAMFILE ADDRESS
	DATE 3/22/78	BOARD LOCATION: 1AF13	SHEET 1 OF 1	
DPE6_DRU(4,651)	14-MAR-78 20:01	NEXT HIGHER ASSEMBLY:	SIZE CODE D CS	NUMBER M8620-0-DPE6
FIRST USED ON OPTION/MODEL: KS10	B-DD-M8620-0			REV. A



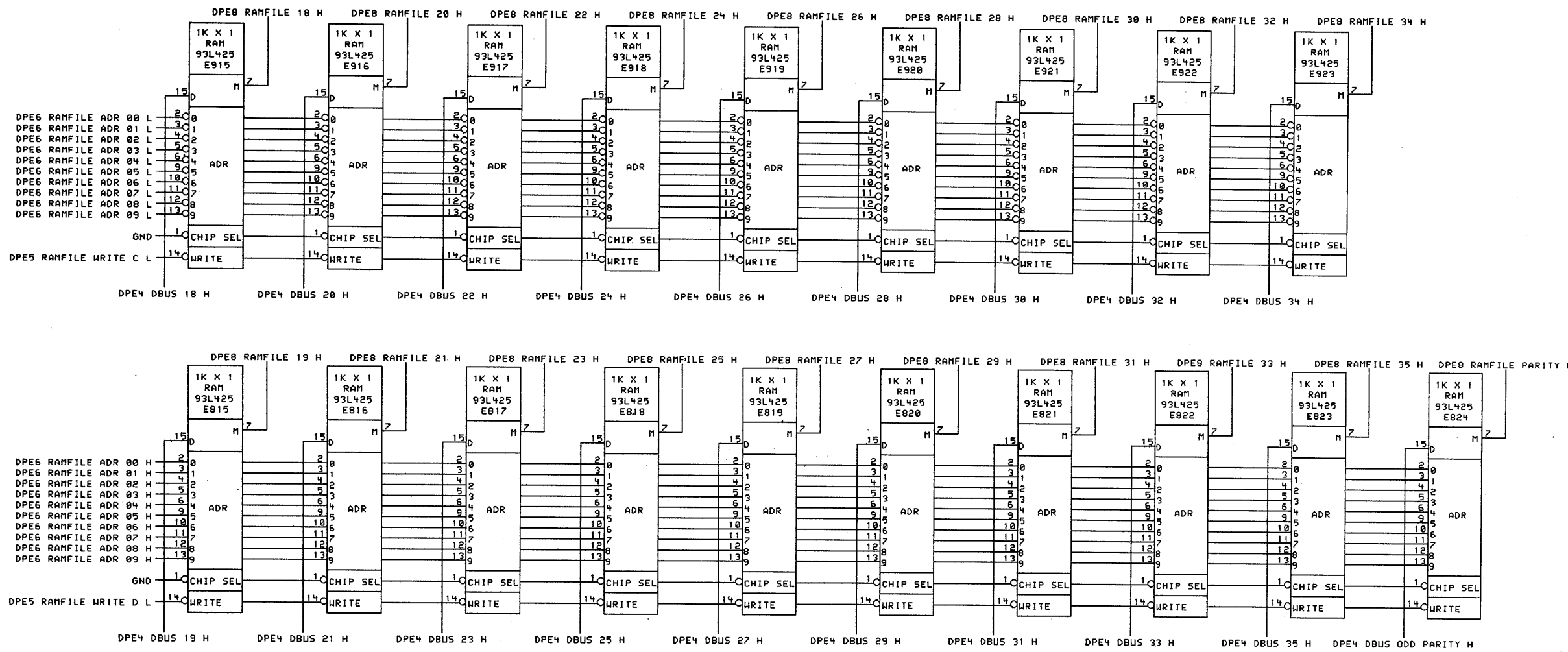
SHEET 7 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	14-MAR-78	ENG.	J. J. J.	DATE		TITLE:	DATA PATH EXEC
	CHK'D				BOARD LOCATION:	IAF13	RAMFILE LEFT	
DPE7.DRW(4,651)		14-MAR-78 17:50	NEXT HIGHER ASSEMBLY:		SIZE	D	CODE	CS
FIRST USED ON OPTION/MODEL:		KS10	B-DD-M8620-0		NUMBER	M8620-0-DPE7	REV.	A





SHEET 8 OF 12

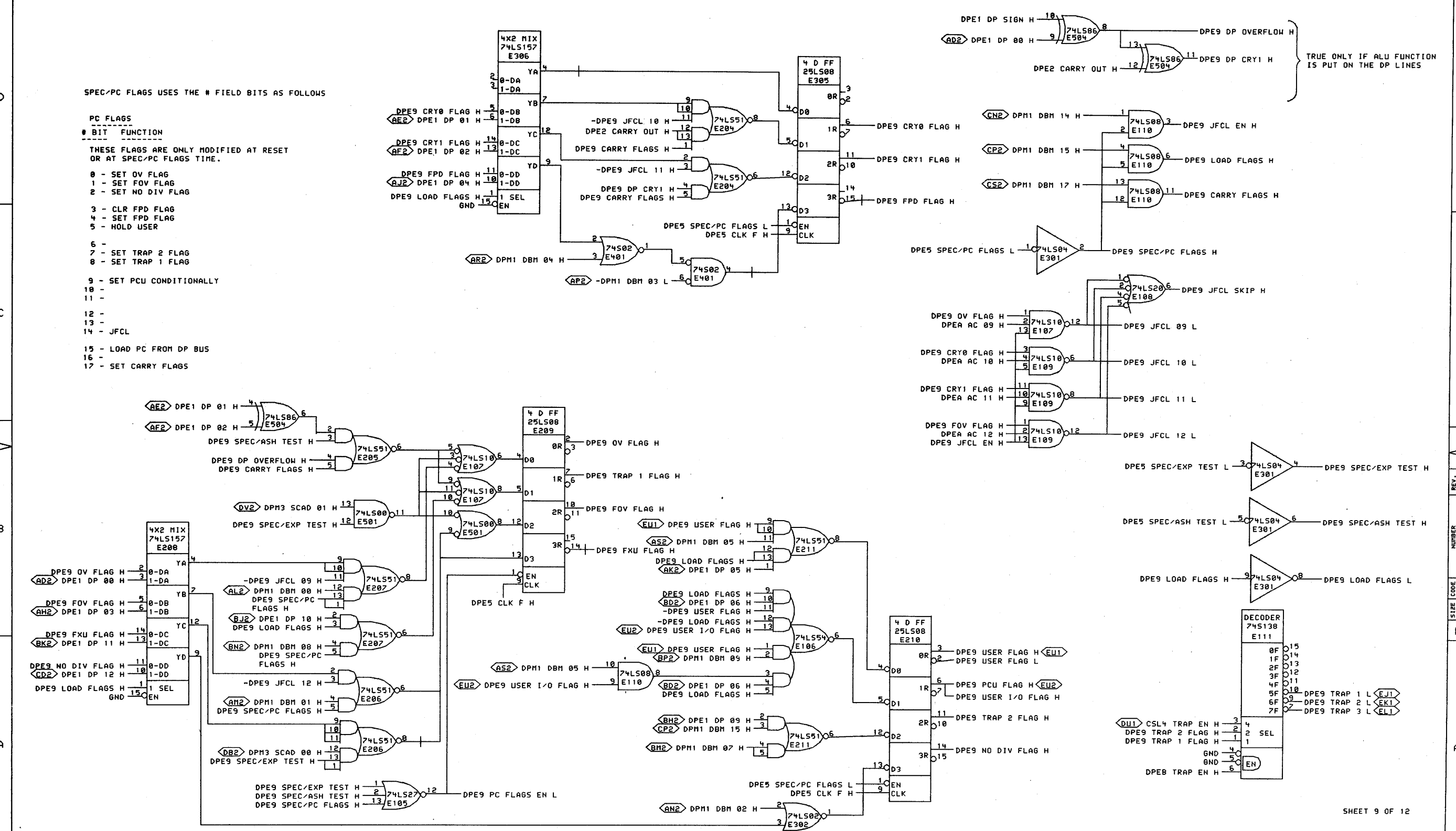
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REVISIONS		
CHK	CHANGE NO.	REV.

	DATE: 14-MAR-78	ENG.:	DATE:	TITLE: DATA PATH EXEC RAMFILE RIGHT
	DATE: 14-MAR-78 12:51	BOARD LOCATION: IAF13	SHEET 1 OF 1	SIZE CODE: D CS
DPE8.DRN(4,651)		NEXT HIGHER ASSEMBLY: B-DD-M8620-0		NUMBER: M8620-0-DPE8
FIRST USED ON OPTION/MODEL: KS10				REV. A

SPEC/PC FLAGS USES THE # FIELD BITS AS FOLLOWS

- PC FLAGS  
# BIT FUNCTION  
THESE FLAGS ARE ONLY MODIFIED AT RESET OR AT SPEC/PC FLAGS TIME.
- 0 - SET OV FLAG
  - 1 - SET FOV FLAG
  - 2 - SET NO DIV FLAG
  - 3 - CLR FPD FLAG
  - 4 - SET FPD FLAG
  - 5 - HOLD USER
  - 6 -
  - 7 - SET TRAP 2 FLAG
  - 8 - SET TRAP 1 FLAG
  - 9 - SET PCU CONDITIONALLY
  - 10 -
  - 11 -
  - 12 -
  - 13 -
  - 14 - JFCL
  - 15 - LOAD PC FROM DP BUS
  - 16 -
  - 17 - SET CARRY FLAGS

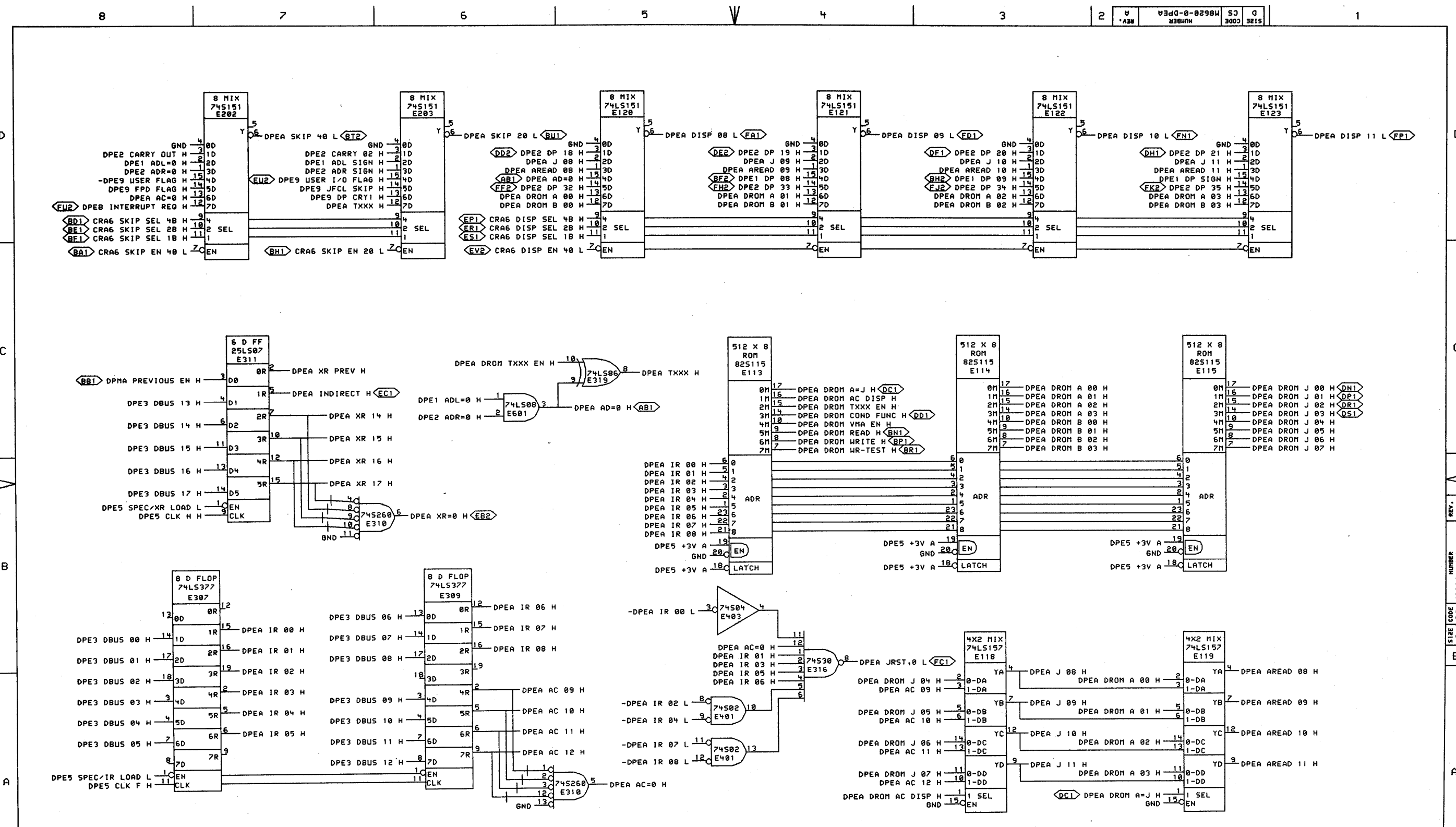


TRUE ONLY IF ALU FUNCTION IS PUT ON THE DP LINES

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REVISIONS		
CHK	CHANGE NO.	REV

	DATE: 14-MAR-78	ENG. J. J. J.	DATE:	TITLE: DATA PATH EXEC P.C. FLAGS
	DATE:	BOARD LOCATION: 1AF13	SHEET: 1 OF 1	
DPE9.DRHL4.651.1	14-MAR-78 18:17	NEXT HIGHER ASSEMBLY: B-DD-M8620-0	SIZE CODE: D CS	NUMBER: M8620-0-DPE9
FIRST USED ON OPTION/MODEL: KS10			REV. A	



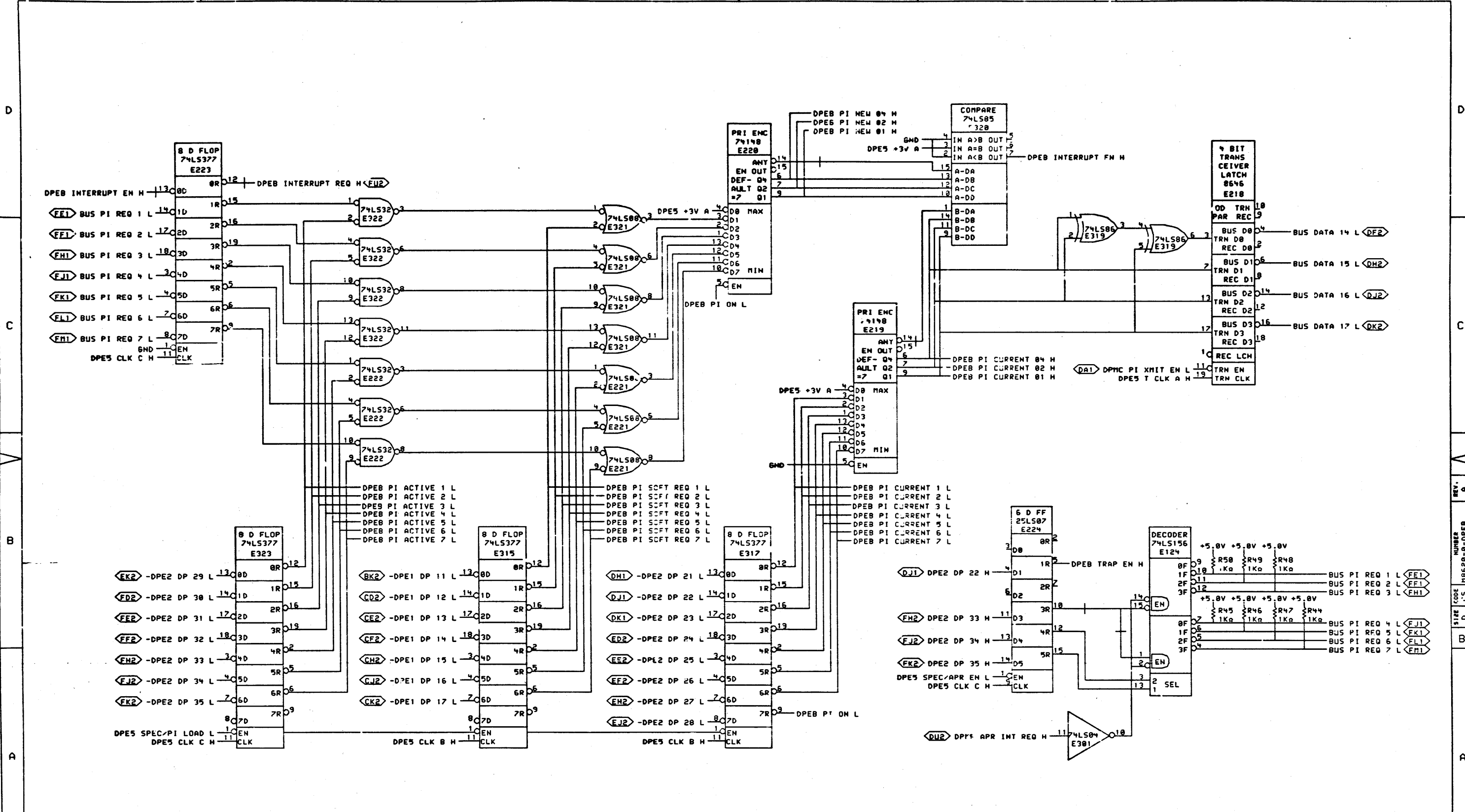
SHEET 10 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

	DATE 11-MAR-78 BOARD LOCATION: 1AF13	TITLE: DATA PATH EXEC IR, SKIP & DISP
	DPEA.DRM(4,651)	DATE 11-MAR-78 18:18 NEXT HIGHER ASSEMBLY: B-DD-M8620-0

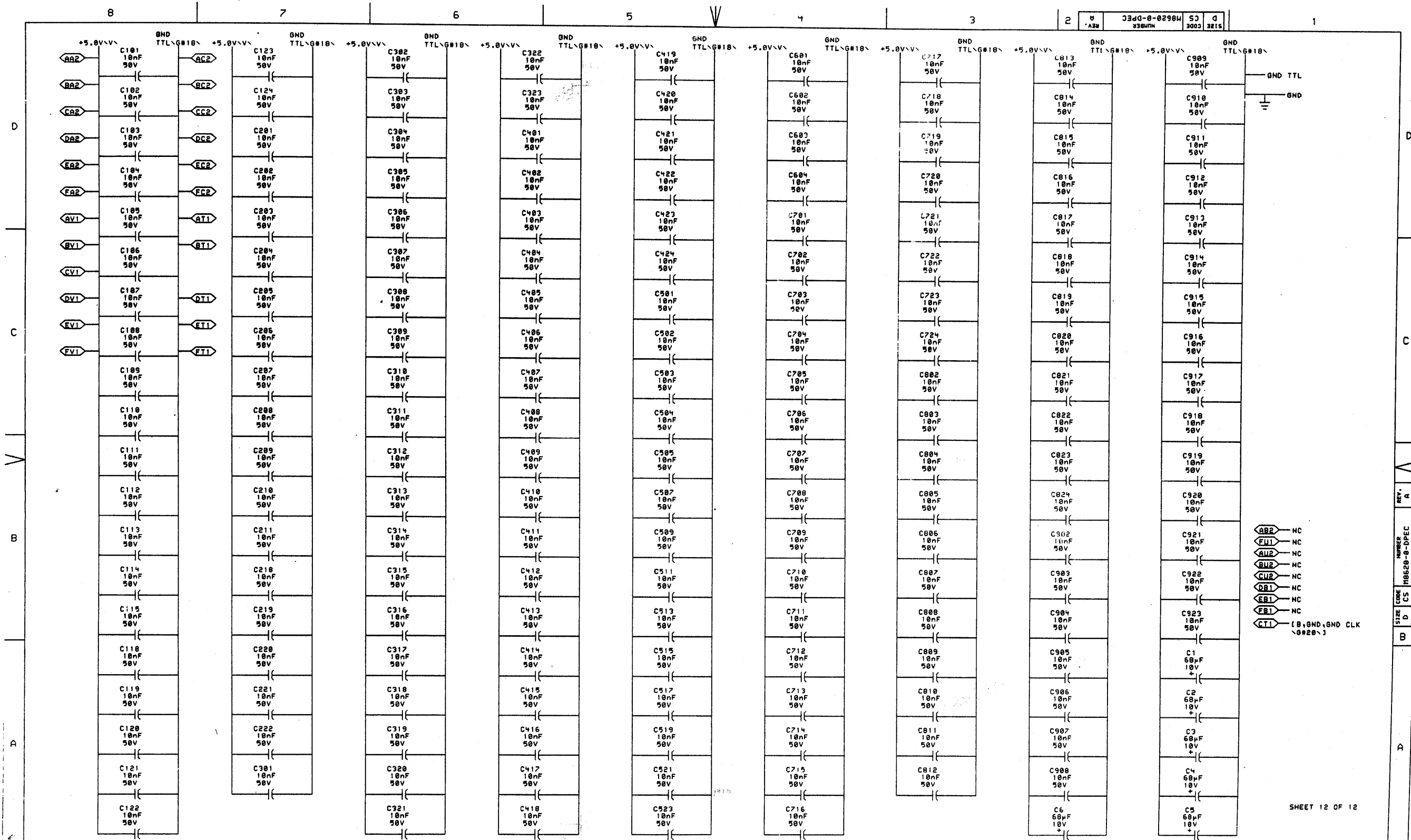
REV. A  
 NUMBER M8620-0-DPEA  
 SIZE CODE CS  
 D  
 B  
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REVISIONS		
CHK	CHANGE NO.	REV

	DATE	ENG.	DATE	TITLE:
	29-MAR-78	J. J. J.		DATA PATH EXEC PRIORITY INTERRUPT
DPEB.DRW(4,621)		33-MAR-78 23:48		NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION MODEL: KS10		B-DD-M8620-0		
SIZE	CODE	NUMBER	REV.	
D	CS	M8620-0-DPEB	A	



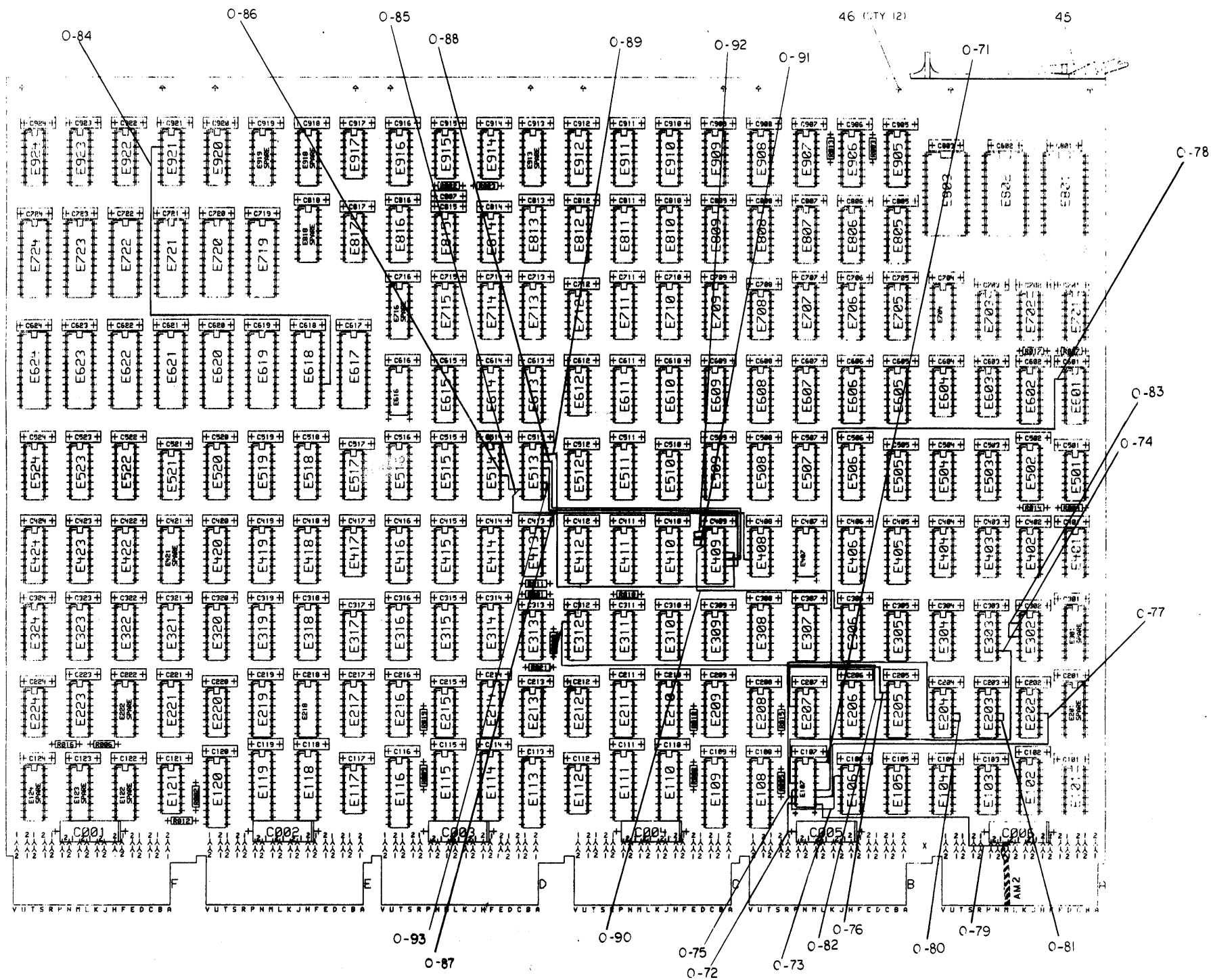
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REVISIONS	
CHK	CHANGE NO. REV

	DRW. <i>J. Looney</i>	DATE 14-MAR-78	ENG. <i>W. J.</i>	DATE	TITLE: DATA PATH EXEC POWER, GND, CAPS
	CHK'D.	DATE	BOARD LOCATION: 1AF13	SHEET OF	SIZE CODE NUMBER REV. D CS M8620-0-DPEC A
FIRST USED ON OPTION/MODEL: K510		NEXT HIGHER ASSEMBLY: B-DD-M8620-0		SHEET 12 OF 12	



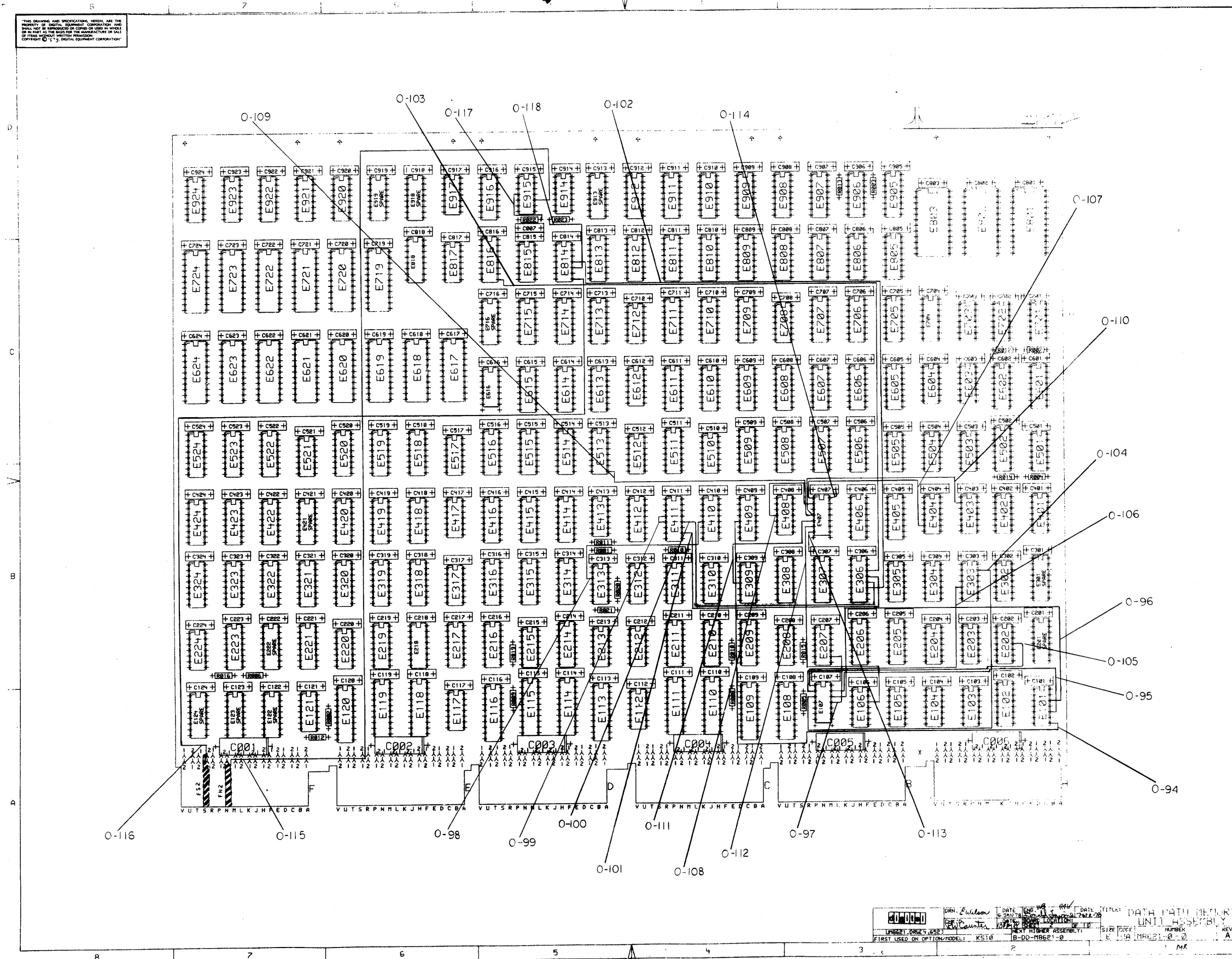
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46-0000	REVISION	DATE	BY	CHECKED	DATE	BY	TITLE
							MEMORY LIMIT ASSEMBLY
	DESIGNED BY	DATE	BY	CHECKED	DATE	BY	REVISION
							1-00-19621-B
	FIRST USED ON OPTION MODEL	4510					
							AM 2
							1 MK

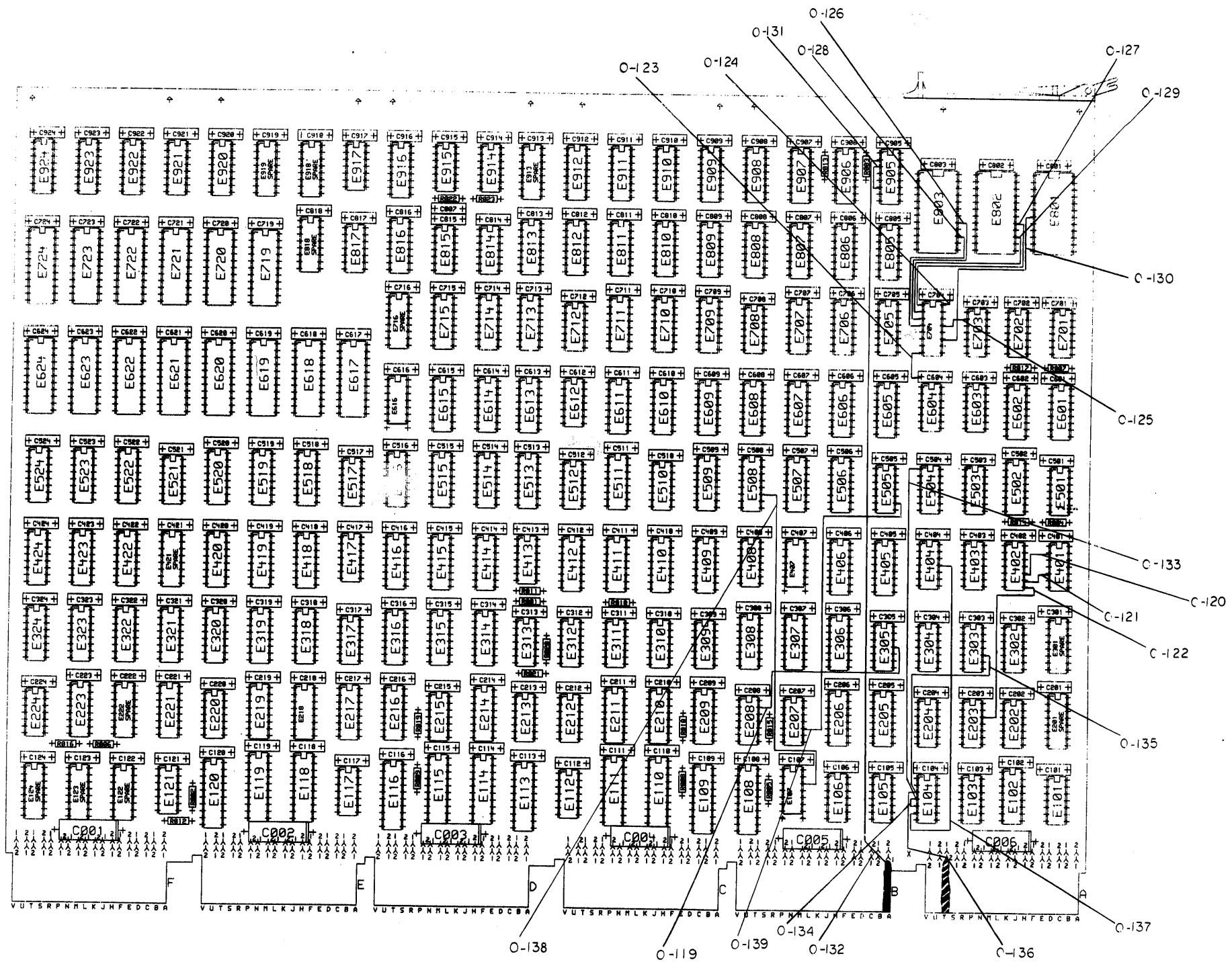


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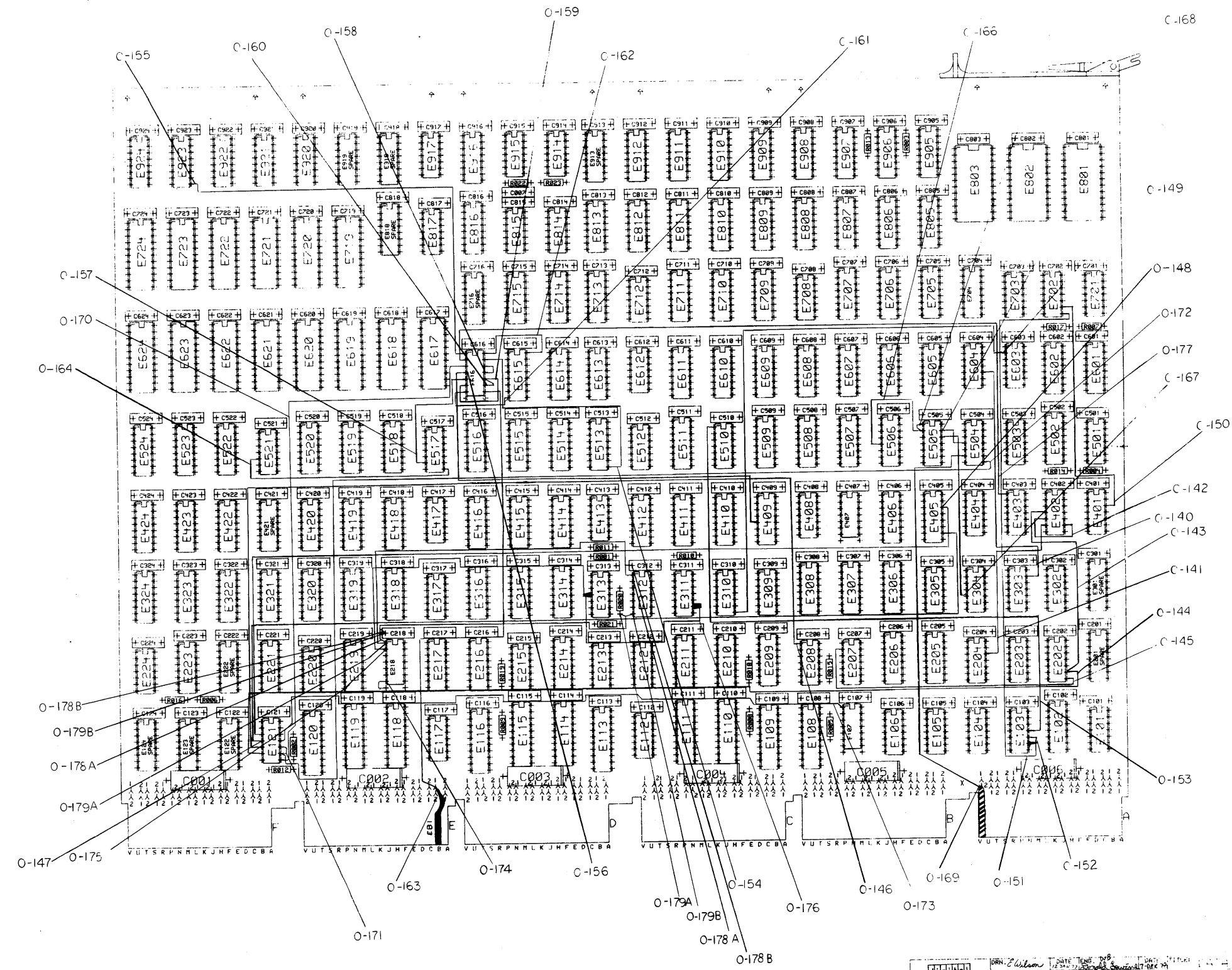
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DATA PATH MEMORY UNIT ASSEMBLY  
REV. 10021-0-0

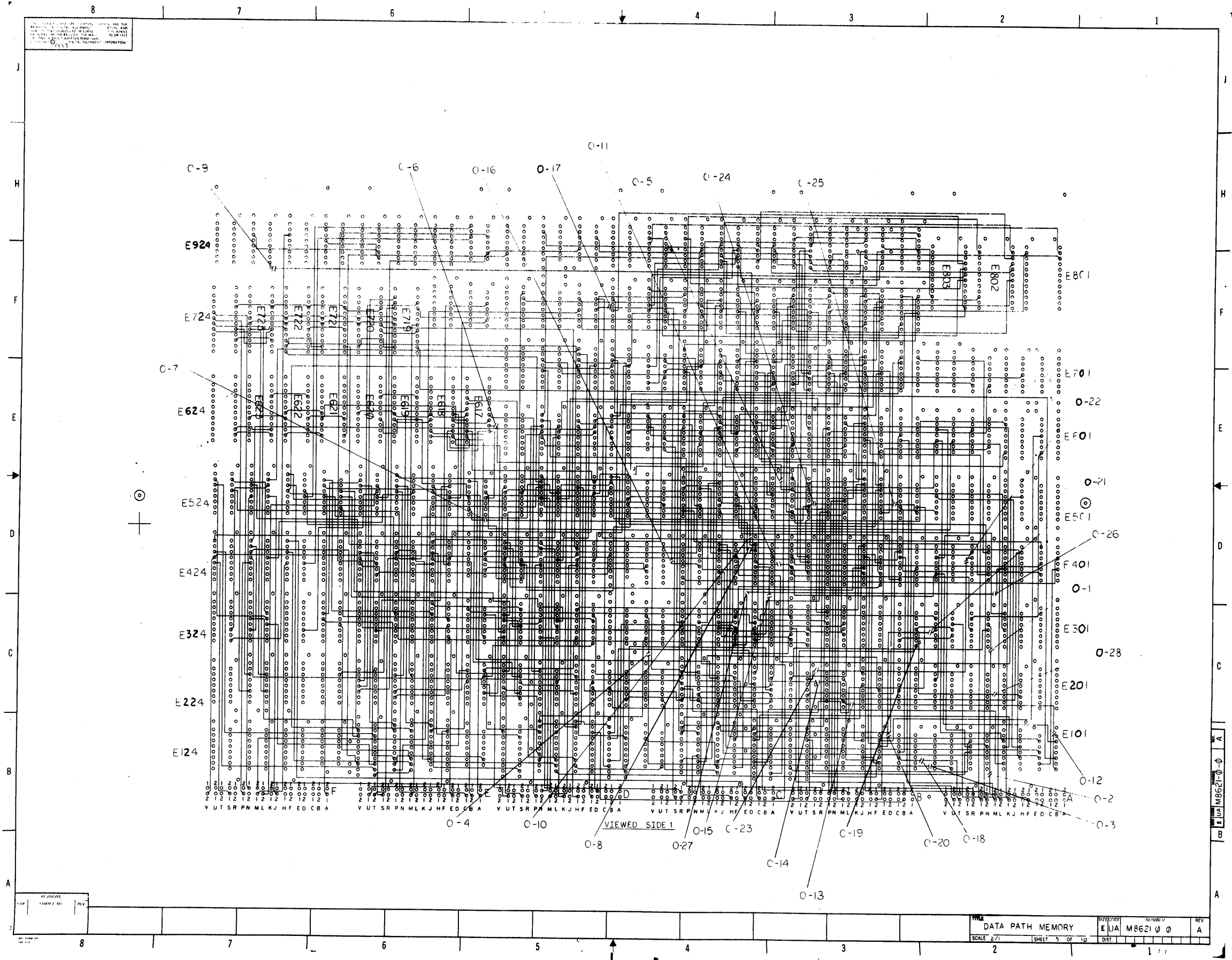
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C-165



DATE: 10/25/79  
DRAWN BY: J. J. [Signature]  
CHECKED BY: [Signature]  
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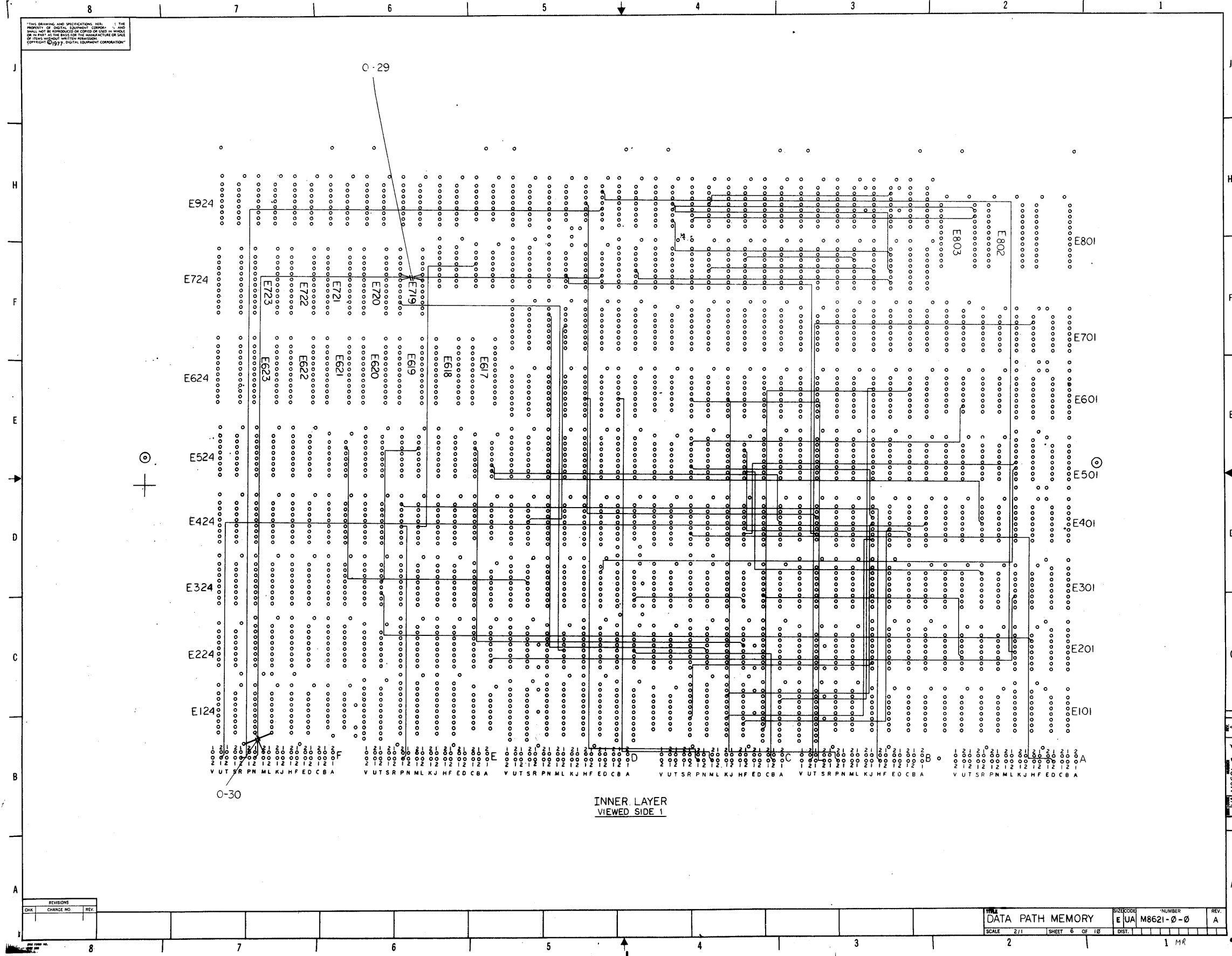
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DATE	BY	CHKD	APP'D

TITLE DATA PATH MEMORY  
 SCALE 2/1 SHEET 5 OF 10  
 NUMBER E UA M8621-0-0  
 REV A

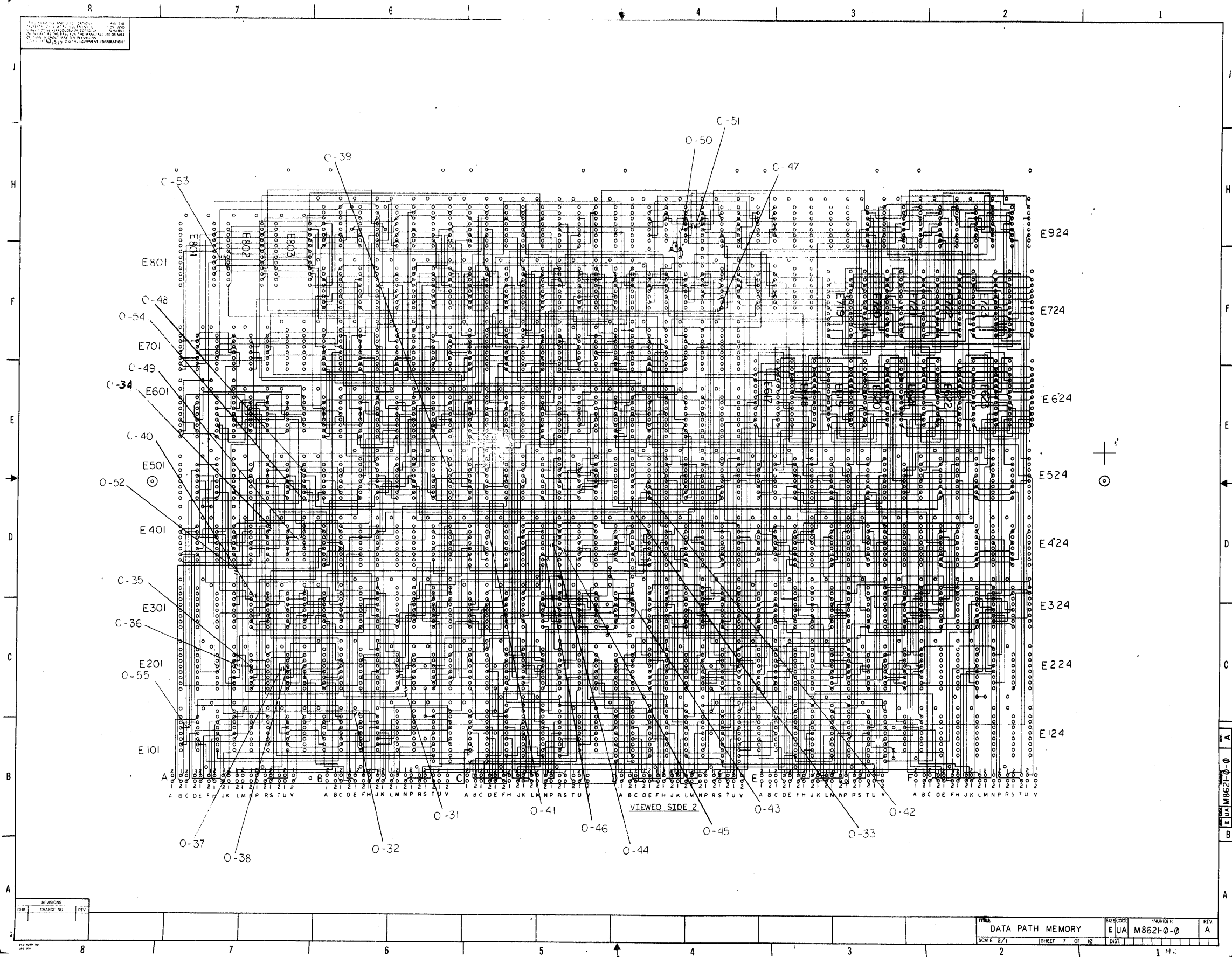
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	DATA PATH MEMORY	SIZE/CODE	E UA	NUMBER	M8621-0-0	REV.	A
SCALE	2/1	SHEET	6	OF	18	DIST.	

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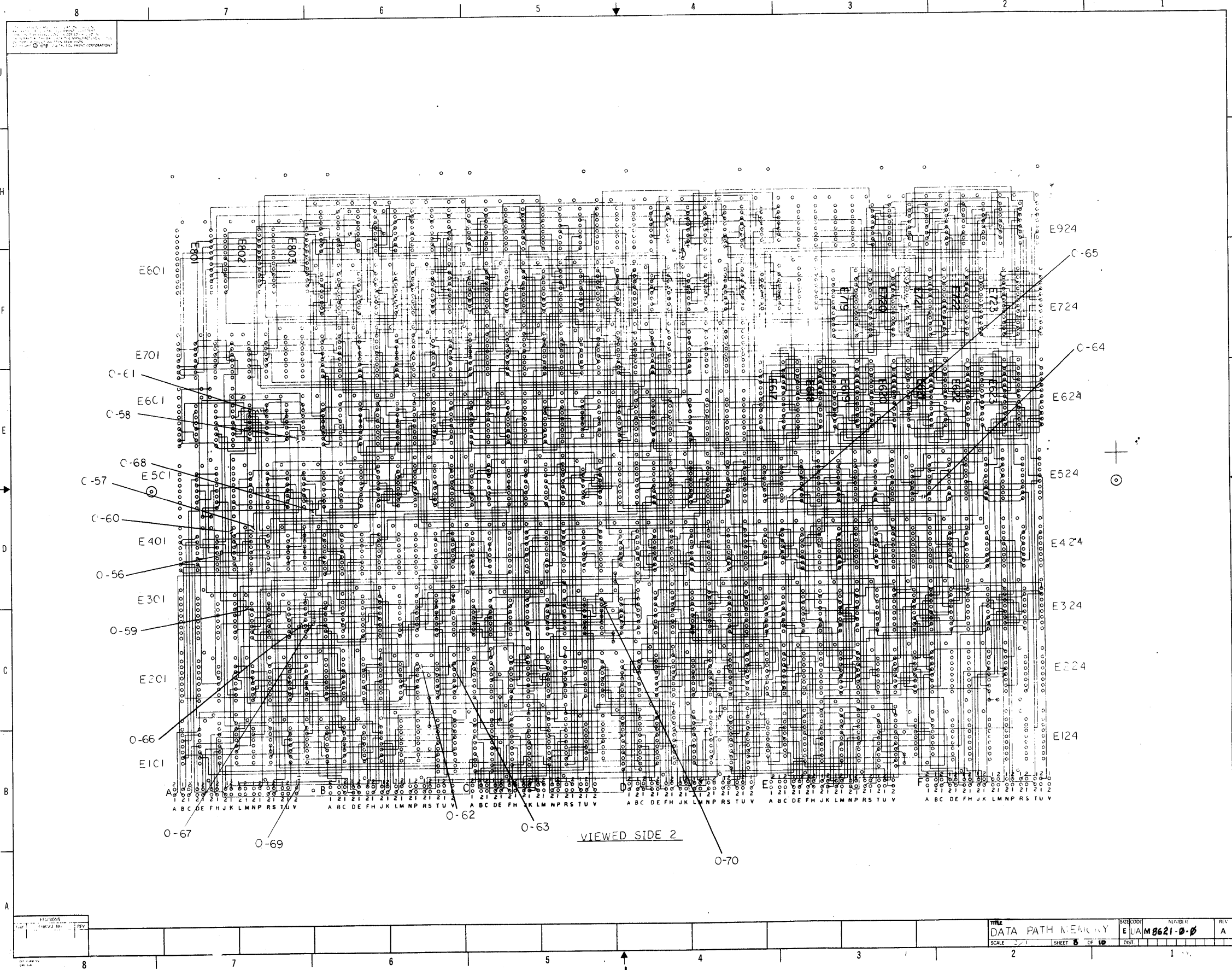


REVISIONS		
NO.	DESCRIPTION	DATE

TITLE	DATA PATH MEMORY	SIZE/CODE	E UA	PRINTED	M8621-0-0	REV	A
SCALE	2/1	SHEET	7 OF 10	DIST.			

EUA M8621-0-0 A





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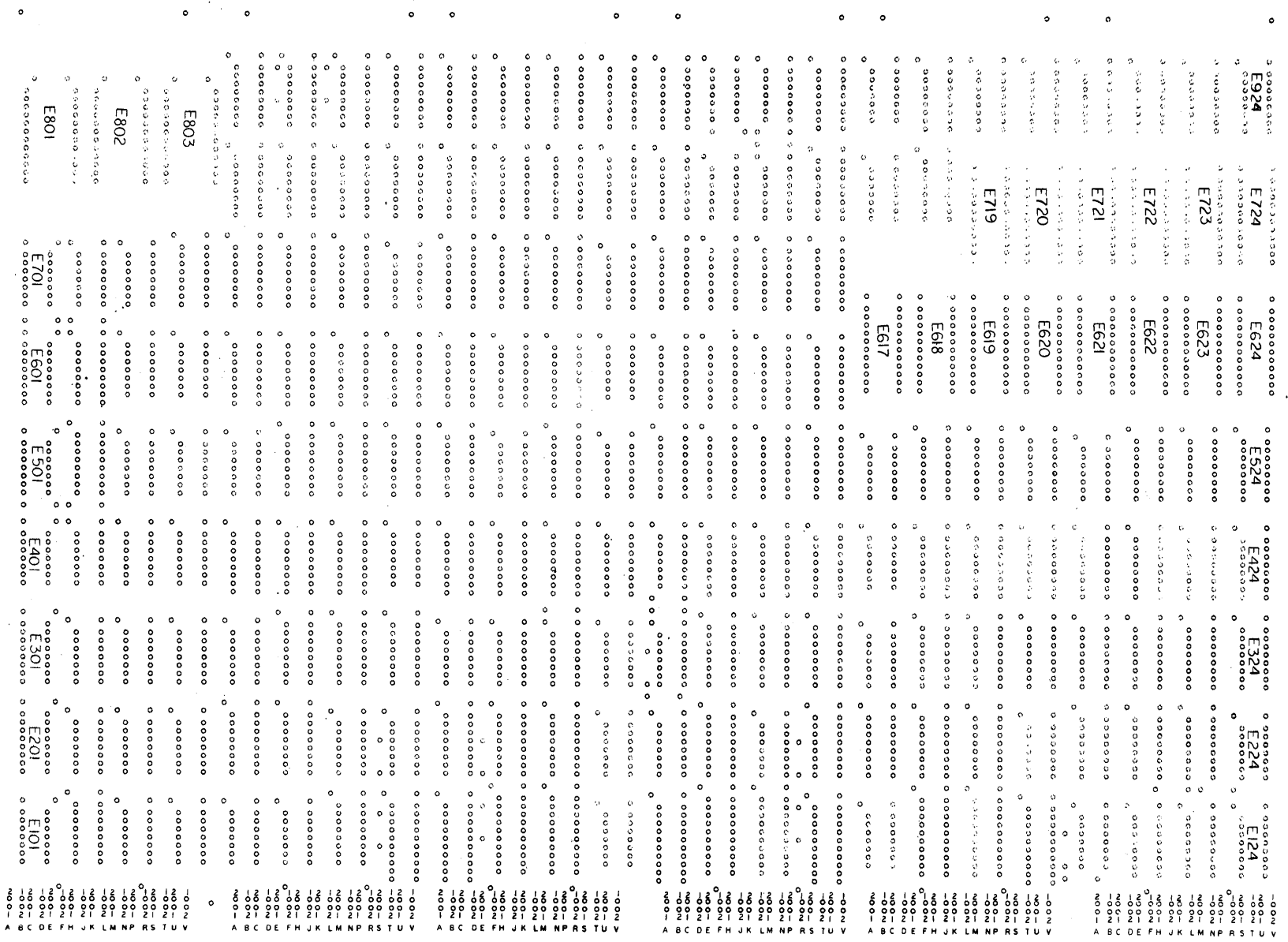
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TITLE		DATA PATH MEMORY		SIZE/COO	NUMBER	REV
SCALE		SHEET 5 OF 10		DIST	1	A

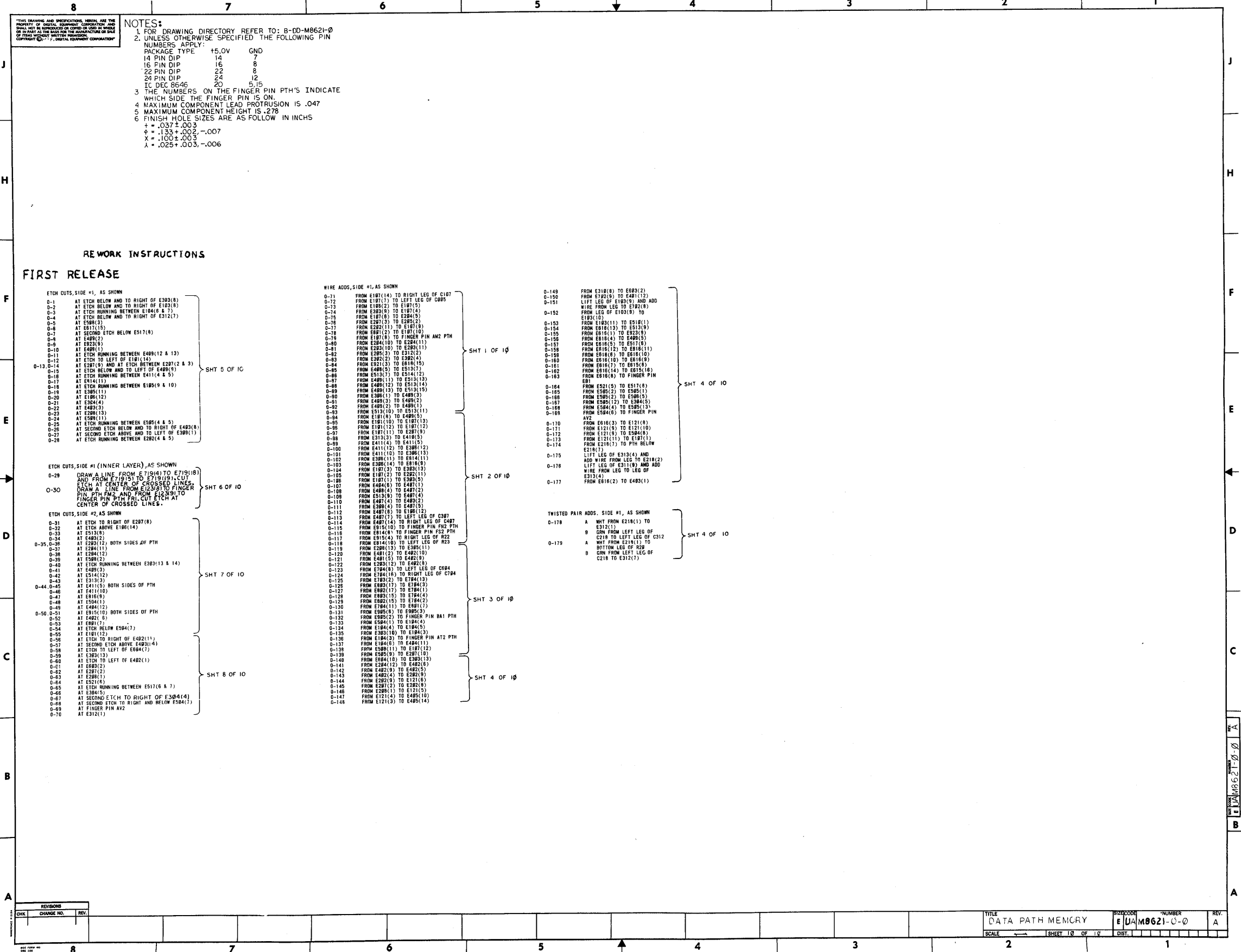
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REV. 10/68  
 DATE CHANGE NO. REV.



VIEWED SIDE 2



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**NOTES:**  
 1 FOR DRAWING DIRECTORY REFER TO: B-DD-M8621-0  
 2 UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:  
 PACKAGE TYPE 15,0V GND  
 14 PIN DIP 14  
 16 PIN DIP 16  
 22 PIN DIP 22  
 24 PIN DIP 24  
 EC DEC 8646 20 5,15  
 3 THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON  
 4 MAXIMUM COMPONENT LEAD PROTRUSION IS .047  
 5 MAXIMUM COMPONENT HEIGHT IS .278  
 6 FINISH HOLE SIZES ARE AS FOLLOW IN INCHS  
 + = .037 ± .003  
 φ = .133 ± .002, -.007  
 X = .100 ± .003  
 λ = .025 ± .003, -.006

**REWORK INSTRUCTIONS**  
**FIRST RELEASE**

ETCH CUTS, SIDE #1, AS SHOWN  
 0-1 AT ETCH BELOW AND TO RIGHT OF E393(8)  
 0-2 AT ETCH BELOW AND TO RIGHT OF E103(8)  
 0-3 AT ETCH RUNNING BETWEEN E184(6 & 7)  
 0-4 AT ETCH BELOW AND TO RIGHT OF E312(7)  
 0-5 AT E398(3)  
 0-6 AT E817(15)  
 0-7 AT SECOND ETCH BELOW E517(8)  
 0-8 AT E489(2)  
 0-9 AT E923(9)  
 0-10 AT E489(13)  
 0-11 AT ETCH RUNNING BETWEEN E489(12 & 13)  
 0-12 AT ETCH TO LEFT OF E181(14)  
 0-13 0-14 AT ETCH BETWEEN E287(2 & 3)  
 0-15 AT ETCH BELOW AND TO LEFT OF E489(9)  
 0-16 AT ETCH RUNNING BETWEEN E414(4 & 5)  
 0-17 AT E114(11)  
 0-18 AT ETCH RUNNING BETWEEN E195(9 & 10)  
 0-19 AT E395(11)  
 0-20 AT E189(12)  
 0-21 AT E384(4)  
 0-22 AT E483(3)  
 0-23 AT E398(13)  
 0-24 AT E398(11)  
 0-25 AT ETCH RUNNING BETWEEN E395(4 & 5)  
 0-26 SECOND ETCH BELOW AND TO RIGHT OF E483(8)  
 0-27 AT SECOND ETCH ABOVE AND TO LEFT OF E398(11)  
 0-28 AT ETCH RUNNING BETWEEN E284(4 & 5)

ETCH CUTS, SIDE #1 (INNER LAYER), AS SHOWN  
 0-29 DRAW A LINE FROM E719(4) TO E719(8) AND FROM E719(5) TO E719(9). CUT AND ETCH AT CENTER OF CROSSED LINES.  
 0-30 DRAW A LINE FROM E123(8) TO FINGER PIN PTH AND FROM E123(9) TO FINGER PIN PTH. CUT ETCH AT CENTER OF CROSSED LINES.

ETCH CUTS, SIDE #2, AS SHOWN  
 0-31 AT ETCH TO RIGHT OF E287(8)  
 0-32 AT ETCH ABOVE E181(14)  
 0-33 AT E313(8)  
 0-34 AT E382(2)  
 0-35 0-36 AT E283(12) BOTH SIDES OF PTH  
 0-37 AT E284(11)  
 0-38 AT E284(12)  
 0-39 AT E398(11)  
 0-40 AT ETCH RUNNING BETWEEN E393(13 & 14)  
 0-41 AT E489(2)  
 0-42 AT E314(12)  
 0-43 AT E313(3)  
 0-44 0-45 AT E411(10) BOTH SIDES OF PTH  
 0-46 AT E411(10)  
 0-47 AT E181(8)  
 0-48 AT E394(1)  
 0-49 AT E484(12) BOTH SIDES OF PTH  
 0-50 0-51 AT E283(10) BOTH SIDES OF PTH  
 0-52 AT E482(8)  
 0-53 AT E397(7)  
 0-54 AT ETCH BELOW E394(7)  
 0-55 AT E181(12)  
 0-56 AT ETCH TO RIGHT OF E482(11)  
 0-57 AT SECOND ETCH ABOVE E493(4)  
 0-58 AT ETCH TO LEFT OF E684(7)  
 0-59 AT E393(13)  
 0-60 AT ETCH TO LEFT OF E482(1)  
 0-61 AT E398(2)  
 0-62 AT E287(2)  
 0-63 AT E398(1)  
 0-64 AT E521(6)  
 0-65 AT ETCH RUNNING BETWEEN E517(6 & 7)  
 0-66 AT E394(5)  
 0-67 AT SECOND ETCH TO RIGHT OF E384(4)  
 0-68 AT SECOND ETCH TO RIGHT AND BELOW E584(7)  
 0-69 AT FINGER PIN AV2  
 0-70 AT E312(7)

WIRE ADDS, SIDE #1, AS SHOWN  
 0-71 FROM E187(14) TO RIGHT LEG OF C187  
 0-72 FROM E187(7) TO LEFT LEG OF C285  
 0-73 FROM E188(2) TO E187(5)  
 0-74 FROM E283(8) TO E187(4)  
 0-75 FROM E187(8) TO E284(5)  
 0-76 FROM E287(3) TO E285(2)  
 0-77 FROM E282(11) TO E187(8)  
 0-78 FROM E817(2) TO E187(8)  
 0-79 FROM E187(8) TO FINGER PIN AM2 PTH  
 0-80 FROM E284(10) TO E284(11)  
 0-81 FROM E283(10) TO E283(11)  
 0-82 FROM E285(3) TO E312(2)  
 0-83 FROM E285(2) TO E382(4)  
 0-84 FROM E321(3) TO E181(15)  
 0-85 FROM E489(5) TO E312(7)  
 0-86 FROM E312(7) TO E514(12)  
 0-87 FROM E489(11) TO E313(13)  
 0-88 FROM E489(12) TO E313(14)  
 0-89 FROM E489(13) TO E313(15)  
 0-90 FROM E384(1) TO E489(3)  
 0-91 FROM E489(3) TO E489(2)  
 0-92 FROM E489(2) TO E489(1)  
 0-93 FROM E313(10) TO E313(11)  
 0-94 FROM E181(8) TO E489(1)  
 0-95 FROM E181(10) TO E181(13)  
 0-96 FROM E181(12) TO E187(12)  
 0-97 FROM E181(11) TO E287(8)  
 0-98 FROM E313(3) TO E418(5)  
 0-99 FROM E411(4) TO E411(5)  
 0-100 FROM E411(5) TO E398(12)  
 0-101 FROM E411(10) TO E398(13)  
 0-102 FROM E398(13) TO E314(11)  
 0-103 FROM E398(14) TO E181(8)  
 0-104 FROM E181(3) TO E382(3)  
 0-105 FROM E187(1) TO E282(11)  
 0-106 FROM E187(1) TO E393(9)  
 0-107 FROM E484(6) TO E487(1)  
 0-108 FROM E489(4) TO E487(2)  
 0-109 FROM E518(9) TO E487(4)  
 0-110 FROM E487(4) TO E483(2)  
 0-111 FROM E398(4) TO E487(5)  
 0-112 FROM E487(6) TO E181(12)  
 0-113 FROM E487(7) TO LEFT LEG OF C387  
 0-114 FROM E487(4) TO RIGHT LEG OF E487  
 0-115 FROM E181(10) TO FINGER PIN FN2 PTH  
 0-116 FROM E181(8) TO FINGER PIN S2 PTH  
 0-117 FROM E181(4) TO RIGHT LEG OF R22  
 0-118 FROM E181(10) TO LEFT LEG OF R23  
 0-119 FROM E288(13) TO E385(11)  
 0-120 FROM E481(2) TO E482(10)  
 0-121 FROM E481(5) TO E482(8)  
 0-122 FROM E283(12) TO E482(8)  
 0-123 FROM E784(6) TO LEFT LEG OF C584  
 0-124 FROM E784(16) TO RIGHT LEG OF C784  
 0-125 FROM E783(2) TO E784(13)  
 0-126 FROM E881(7) TO E784(13)  
 0-127 FROM E882(7) TO E784(11)  
 0-128 FROM E881(5) TO E784(4)  
 0-129 FROM E882(15) TO E784(2)  
 0-130 FROM E784(11) TO E881(7)  
 0-131 FROM E885(8) TO E885(7)  
 0-132 FROM E885(2) TO FINGER PIN BA1 PTH  
 0-133 FROM E884(1) TO E184(4)  
 0-134 FROM E184(4) TO E184(5)  
 0-135 FROM E881(8) TO E184(3)  
 0-136 FROM E184(3) TO FINGER PIN AT2 PTH  
 0-137 FROM E184(6) TO E484(11)  
 0-138 FROM E381(8) TO E187(12)  
 0-139 FROM E285(9) TO E287(10)  
 0-140 FROM E284(10) TO E382(13)  
 0-141 FROM E284(12) TO E482(6)  
 0-142 FROM E482(9) TO E482(5)  
 0-143 FROM E482(4) TO E285(8)  
 0-144 FROM E282(9) TO E121(8)  
 0-145 FROM E287(3) TO E285(8)  
 0-146 FROM E288(1) TO E121(5)  
 0-147 FROM E121(4) TO E485(10)  
 0-148 FROM E121(3) TO E485(14)

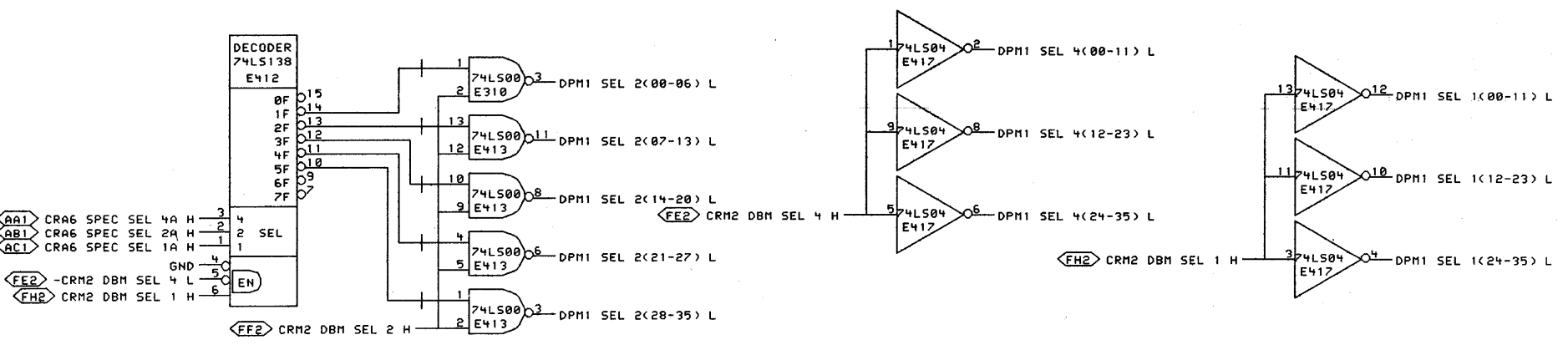
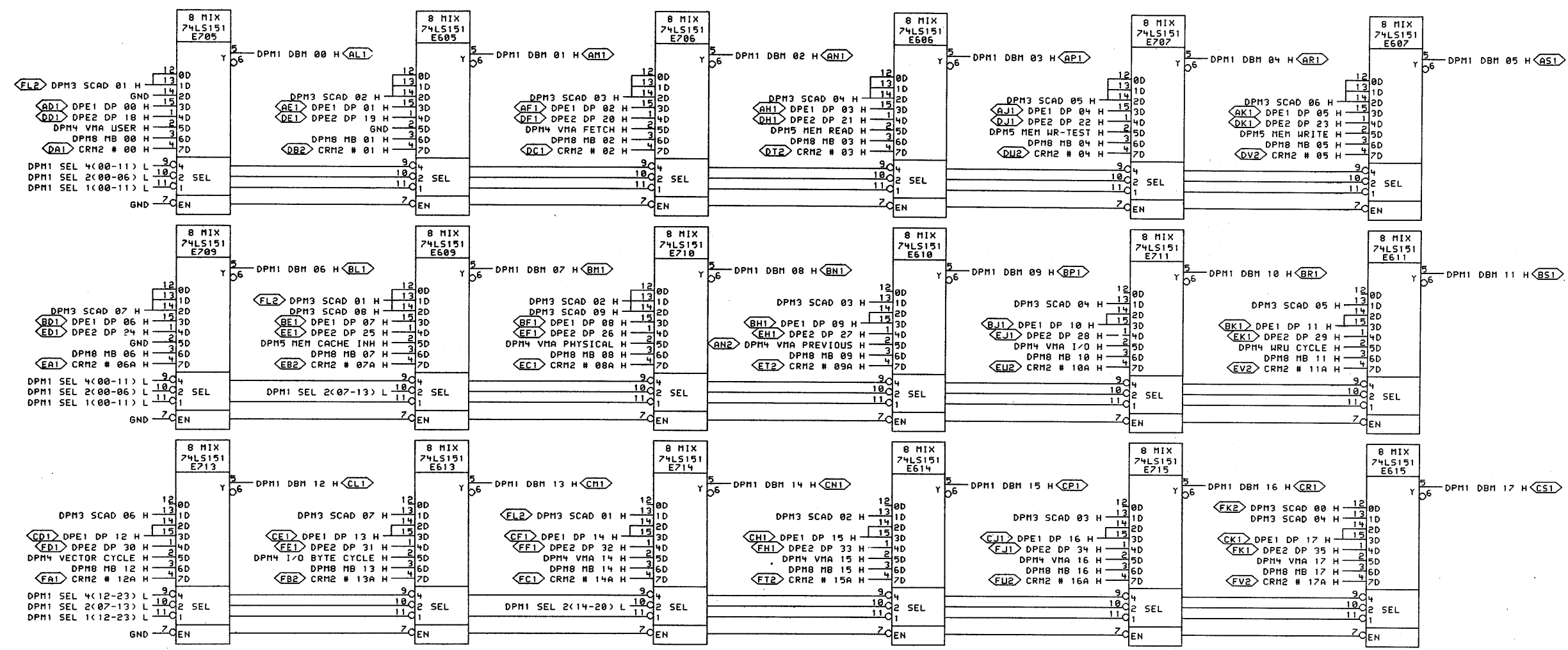
0-149 FROM E318(8) TO E883(2)  
 0-150 FROM E782(9) TO E481(12)  
 0-151 LEFT LEG OF E103(9) AND ADD WIRE FROM LEG TO E782(8)  
 0-152 FROM LEG OF E103(9) TO E181(10)  
 0-153 FROM E188(11) TO E518(1)  
 0-154 FROM E181(13) TO E513(9)  
 0-155 FROM E181(1) TO E284(9)  
 0-156 FROM E181(4) TO E488(5)  
 0-157 FROM E181(6) TO E517(8)  
 0-158 FROM E181(12) TO E181(11)  
 0-159 FROM E181(8) TO E181(10)  
 0-160 FROM E181(13) TO E181(9)  
 0-161 FROM E181(7) TO E181(8)  
 0-162 FROM E181(14) TO E181(16)  
 0-163 FROM E181(8) TO FINGER PIN E81  
 0-164 FROM E521(5) TO E517(8)  
 0-165 FROM E395(2) TO E395(1)  
 0-166 FROM E395(2) TO E395(1)  
 0-167 FROM E395(12) TO E394(5)  
 0-168 FROM E394(4) TO E395(13)  
 0-169 FROM E394(6) TO FINGER PIN AV2  
 0-170 FROM E616(3) TO E121(8)  
 0-171 FROM E121(9) TO E121(10)  
 0-172 FROM E121(9) TO E394(8)  
 0-173 FROM E121(11) TO E187(1)  
 0-174 FROM E218(7) TO PTH BELOW E218(7)  
 0-175 LEFT LEG OF E313(4) AND ADD WIRE FROM LEG TO E218(2)  
 0-176 LEFT LEG OF E313(8) AND ADD WIRE FROM LEG TO LEG OF E313(4)  
 0-177 FROM E181(2) TO E483(1)

TWISTED PAIR ADDS, SIDE #1, AS SHOWN  
 0-178 A WHI FROM E181(1) TO E312(1)  
 B GRN FROM LEFT LEG OF C218 TO LEFT LEG OF C312  
 0-179 A WHI FROM E281(7) TO BOTTOM LEG OF C28  
 B GRN FROM LEFT LEG OF C218 TO E312(7)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DATA PATH MEMORY  
 NUMBER EUAM8621-C-0  
 SHEET 10 OF 10





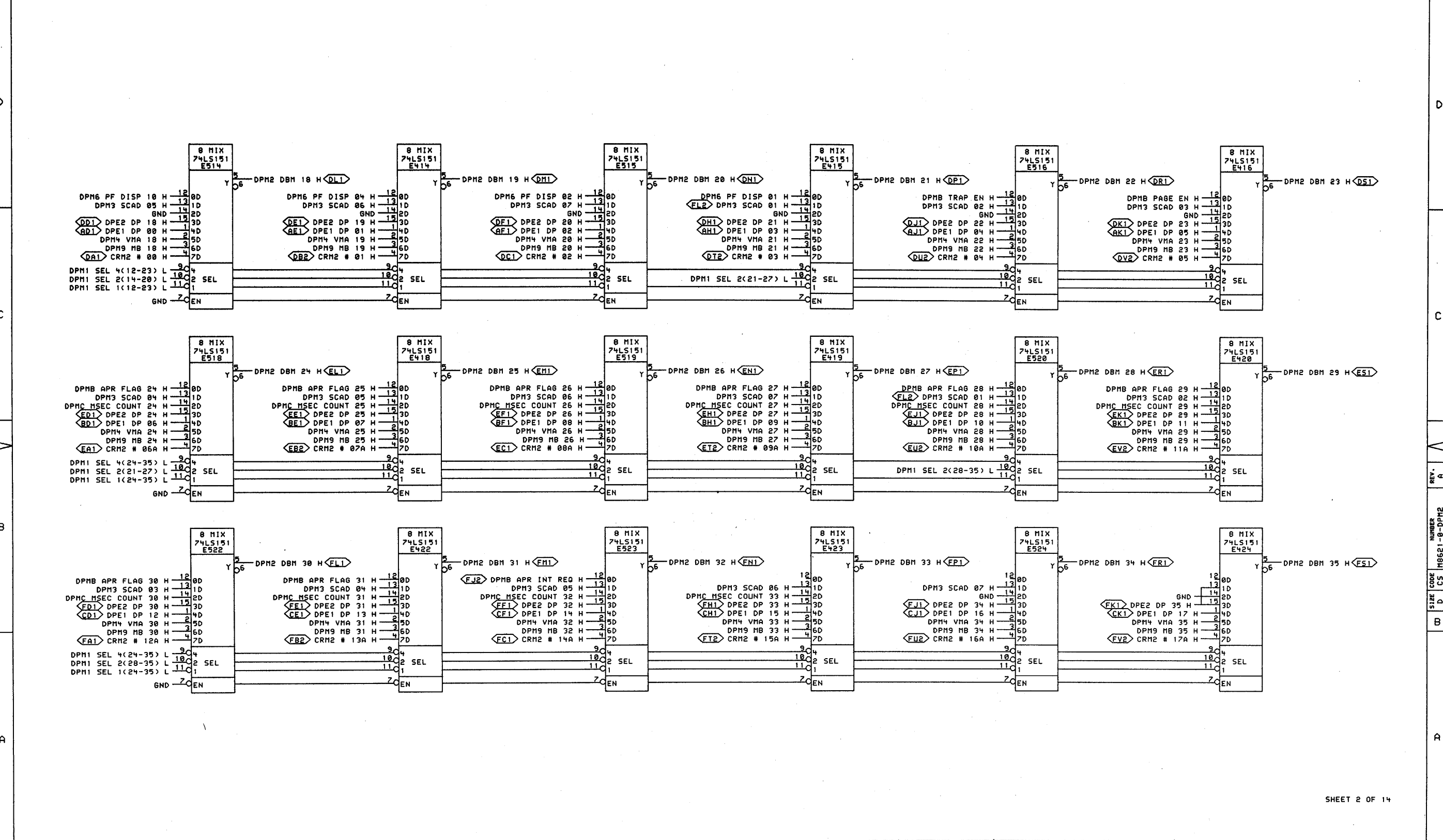
DBM SELECTION	
0	SCAD, PF DISP, APR
1	BYTES
2	EXPONENT, MSECS
3	DP
4	DP SWAPPED
5	VMA FLAGS, VMA
6	MEMORY BUFFER
7	#, #

SHEET 1 OF 14

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REVISIONS	
CHK	CHANGE NO. REV

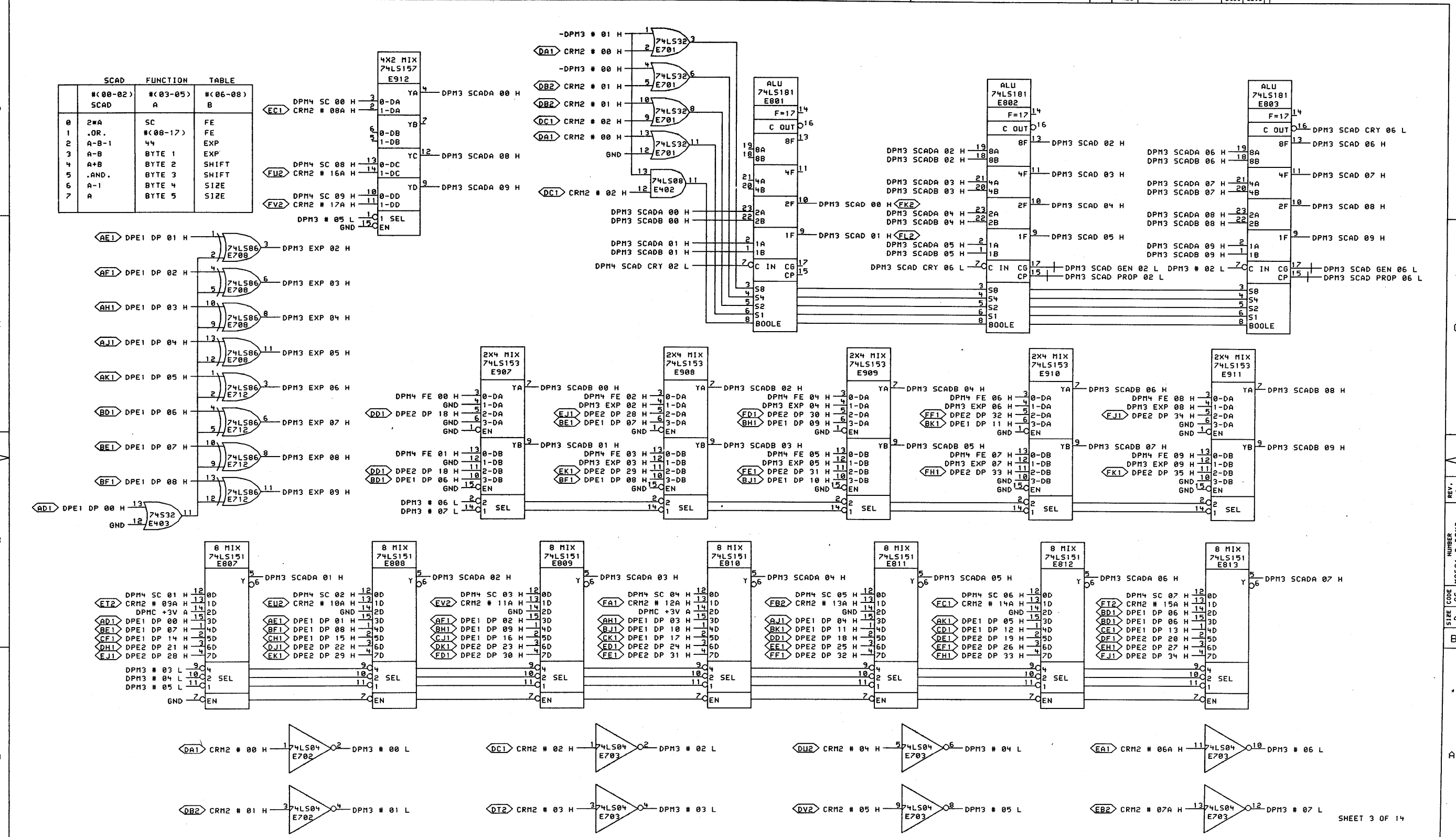
digital	DRN. J. J. J.	DATE 29-MAR-78	ENG. [Signature]	DATE 29-MAR-78	TITLE: DATA PATH MEMORY DBM LEFT
	CHK. J. J. J.	DATE 18-MAR-78	DATE 15-02	BOARD LOCATION: 1A14	REV. A
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8621-0		SIZE CODE D CS	NUMBER M8621-0-DPM1



SHEET 2 OF 14

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FIRST USED ON OPTION/MODEL: K510				NEXT HIGHER ASSEMBLY: B-DD-M8621-0		DATE: 22-MAR-78		DATE: 22-MAR-78	

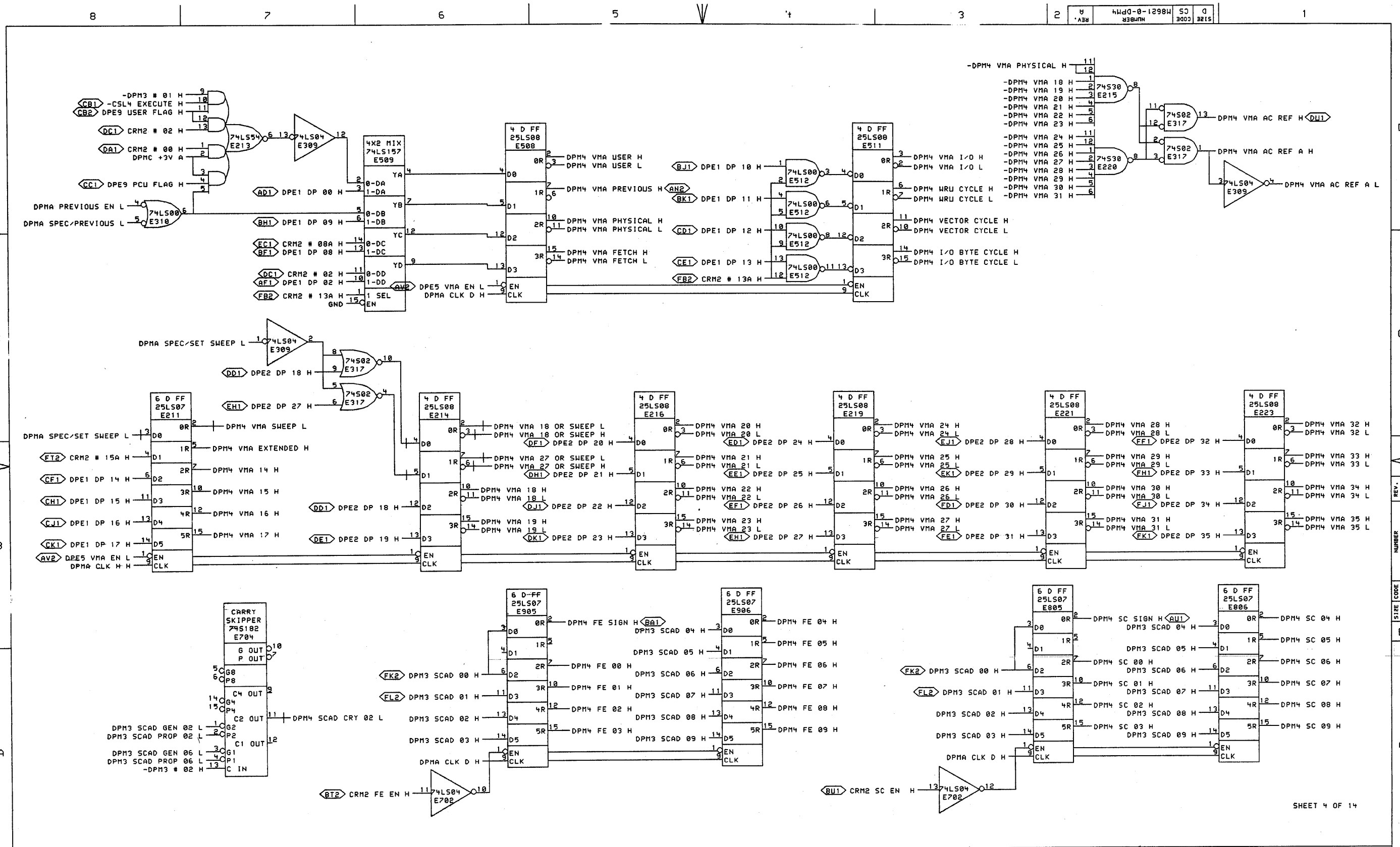
SCAD FUNCTION TABLE			
#(00-02) SCAD	#(03-05) A	#(06-08) B	
0	2*A	SC	FE
1	.OR.	#(08-17)	FE
2	A-B-1	44	EXP
3	A-B	BYTE 1	EXP
4	A+B	BYTE 2	SHIFT
5	.AND.	BYTE 3	SHIFT
6	A-1	BYTE 4	SIZE
7	A	BYTE 5	SIZE



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REVISIONS		
CHK	CHANGE NO.	REV

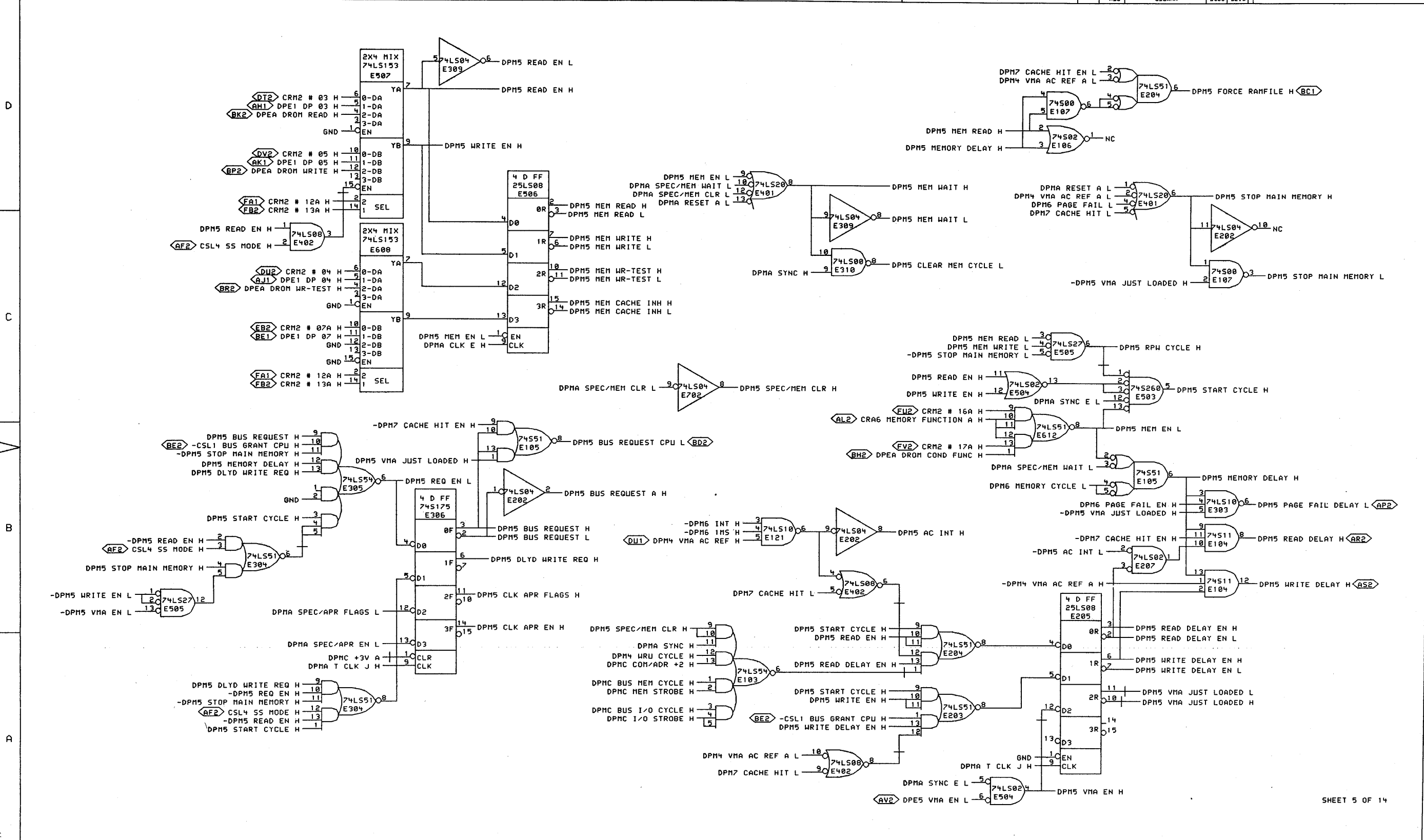
	DRW. <i>J. J. J.</i>	DATE 22-MAR-78	ENG. <i>[Signature]</i>	DATE 27-APR-78	TITLE: DATA PATH MEMORY STEP COUNT ADD
	CHK'D. <i>[Signature]</i>	DATE 12-MAR-78	BOARD LOCATION: 1AF14	SHEET 1 OF 1	SIZE CODE D CS
FIRST USED ON OPTION MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8621-0		NUMBER M8621-0-DPM3	REV. A



SHEET 4 OF 14

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DPM4.DRW(4,652)		22-MAR-78 01:50		FIRST USED ON OPTION/MODEL: K510		NEXT HIGHER ASSEMBLY: B-DD-M8621-0		SHEET 1 OF 1		SIZE CODE NUMBER REV. D CS M8621-0-DPM4 A

REV. A  
NUMBER 1  
M8621-0-DPM4

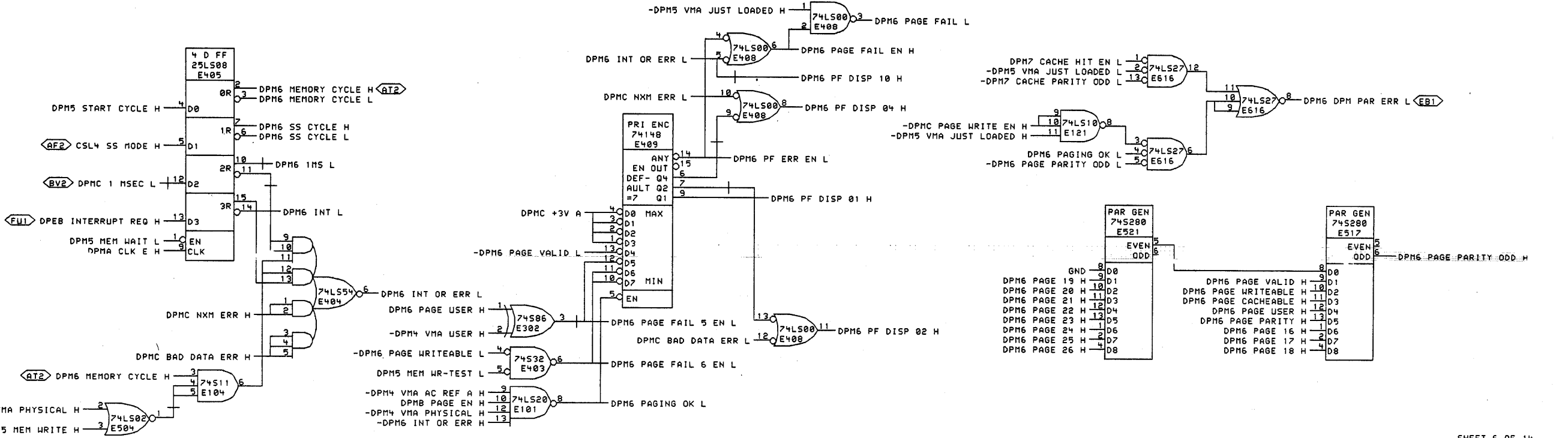
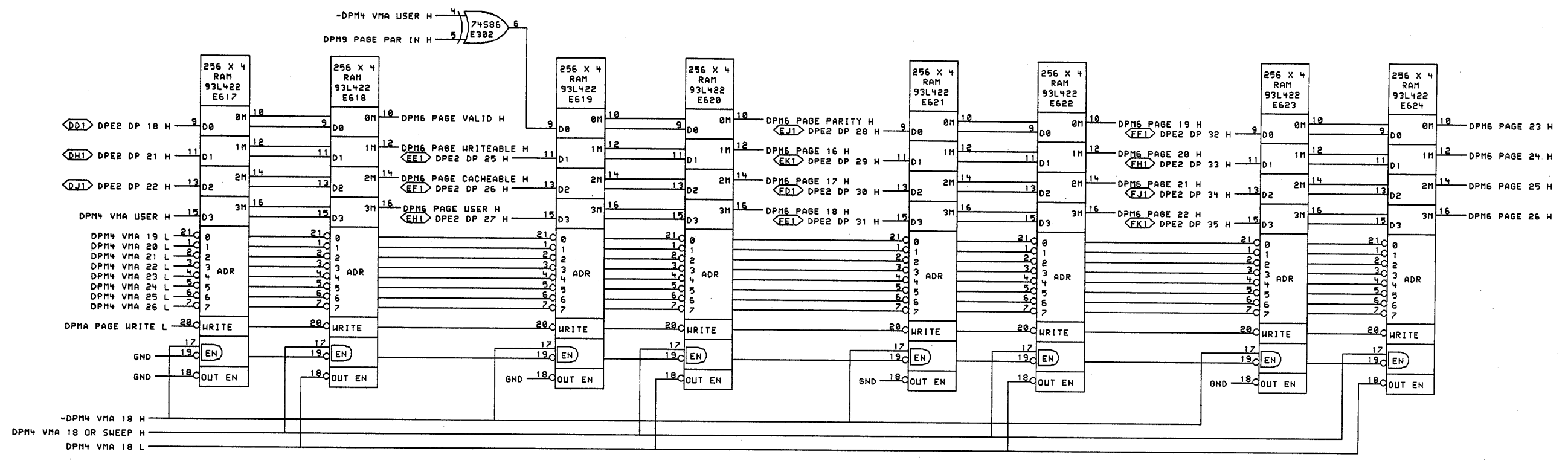


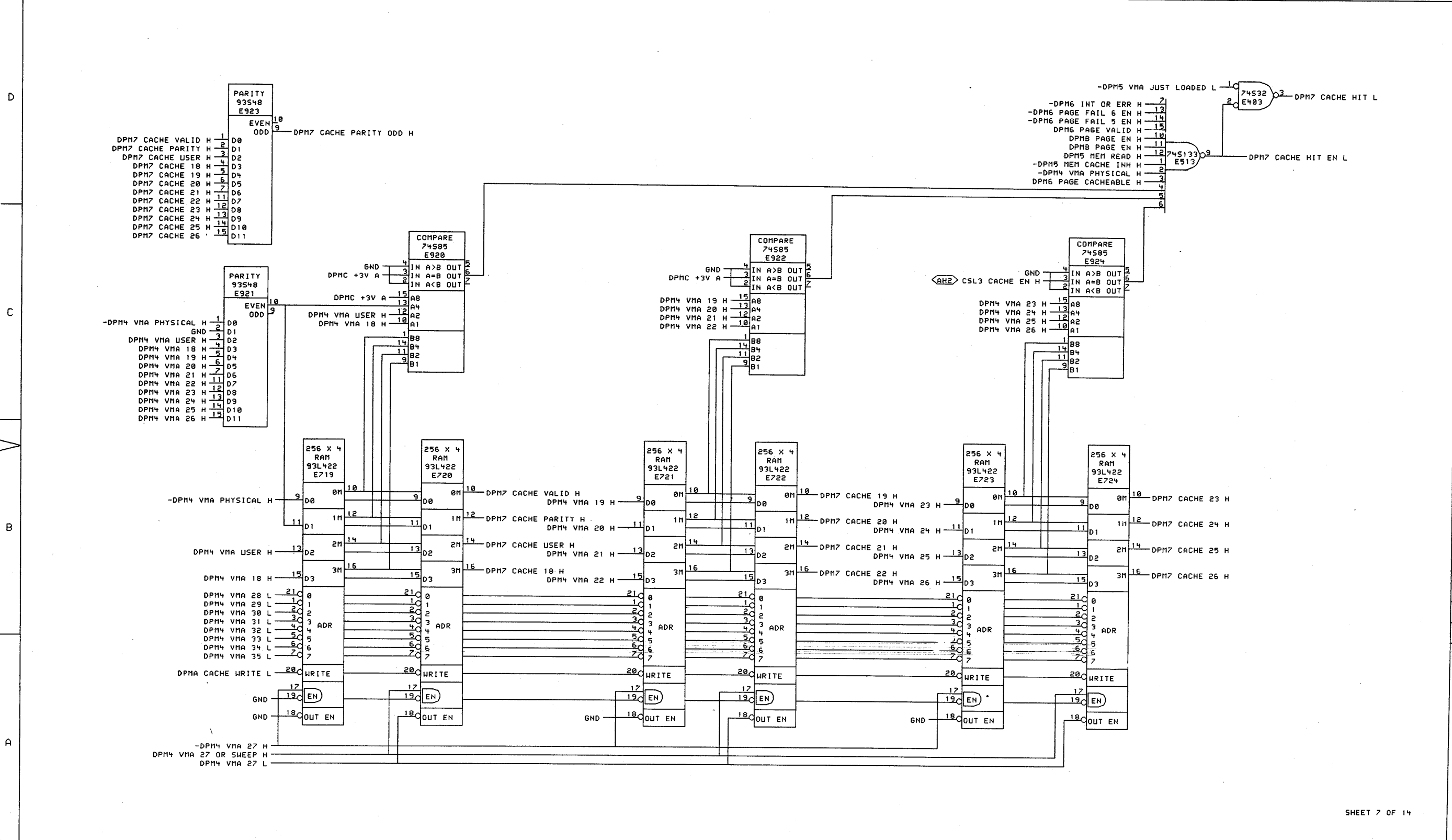
SHEET 5 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

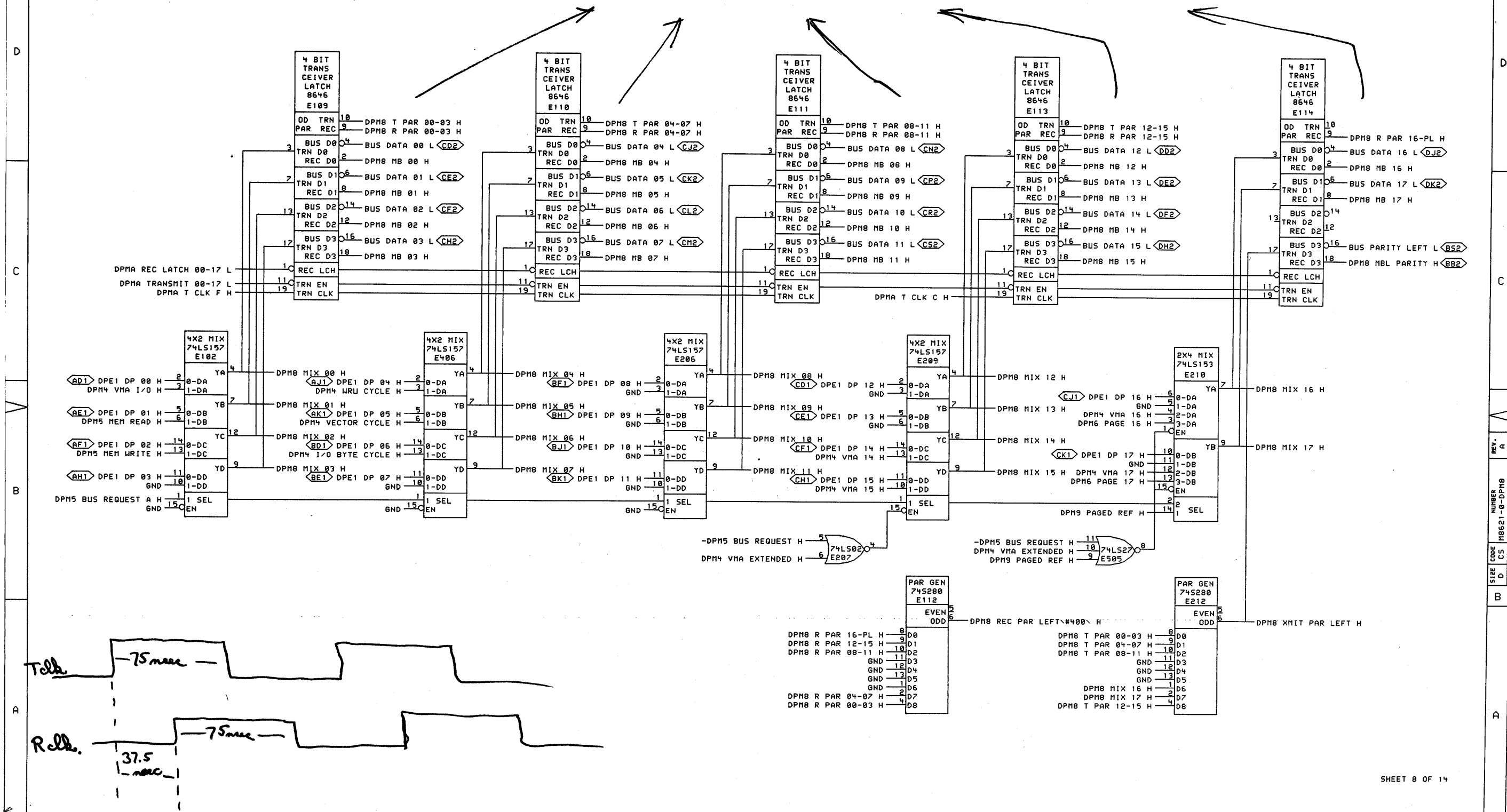
digital	DATE: 23-MAR-78	ENG.:	DATE:	TITLE: DATA PATH MEMORY MEMORY CYCLE
CHK'D:	DATE: 23-MAR-78	BOARD LOCATION: 1AF14	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8621-0-DPM5 A
FIRST USED ON OPTION/MODEL: KS10				NEXT HIGHER ASSEMBLY: B-DD-M8621-0





SHEET 7 OF 14

# KS10 Bus



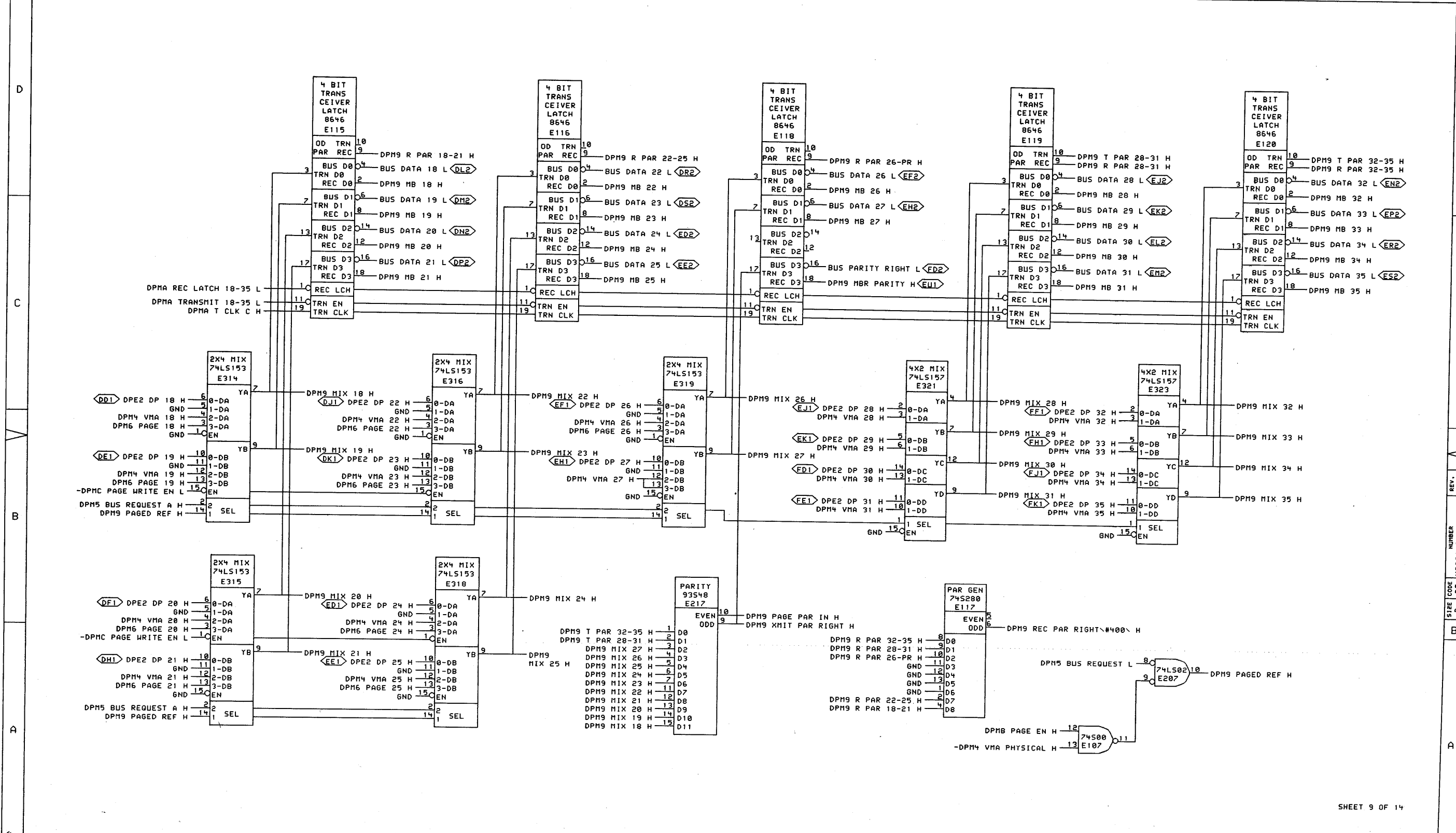
REV. A  
NUMBER  
DPM8  
CS M8621-0-DPM8  
D  
SIZE CODE

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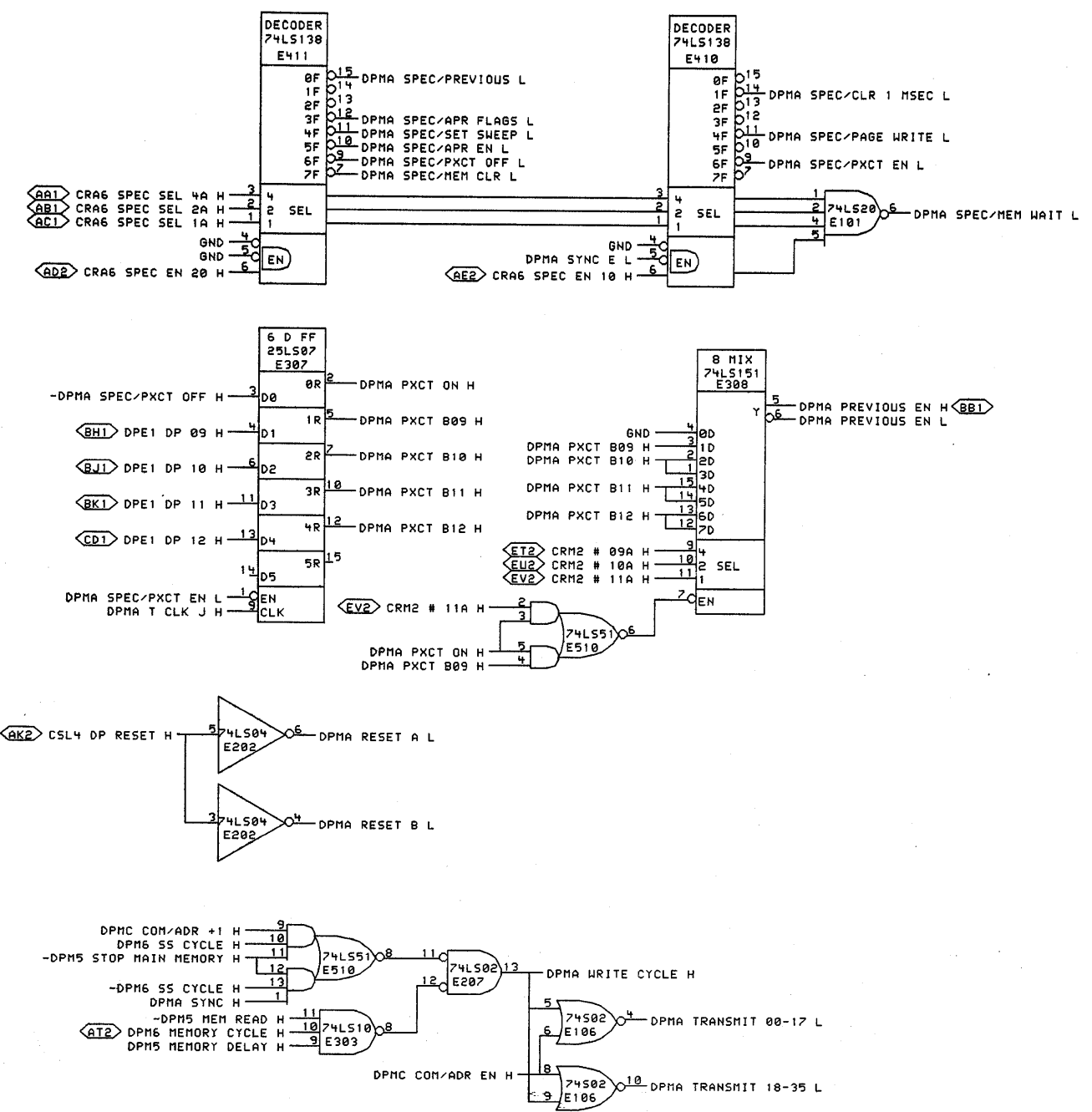
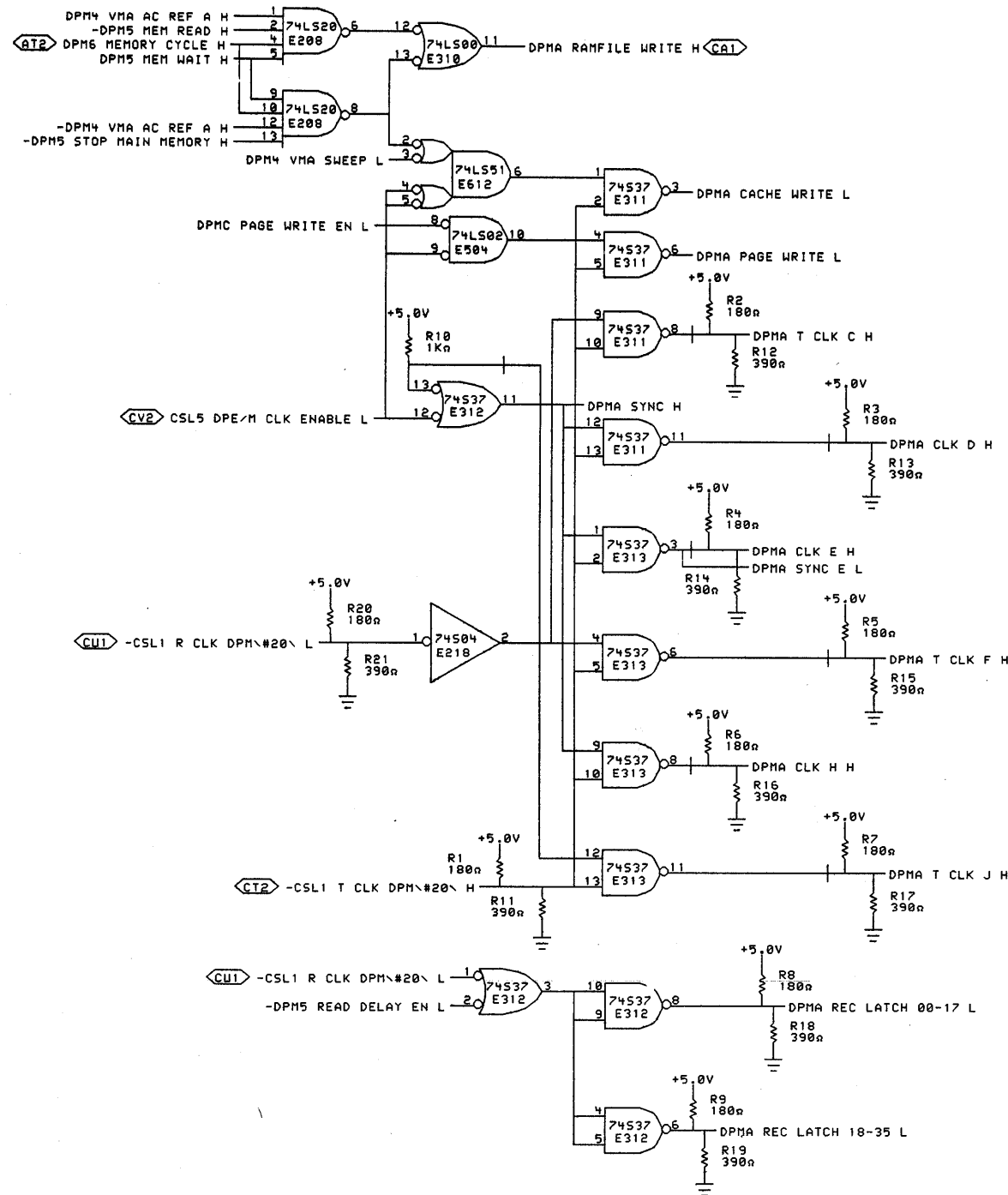
REVISIONS		
CHK	CHANGE NO.	REV.

	DATE: 22-MAR-78	ENG.:	DATE:	TITLE: DATA PATH MEMORY BUS LEFT
	DATE: 22-MAR-78 01:54	CHK'D: J. J. J.	BOARD LOCATION: 1AF14	
DPMS DRW(4,652)	NEXT HIGHER ASSEMBLY: B-DD-M8621-0	SHEET: 1 OF 1	SIZE CODE: D CS	NUMBER: M8621-0-DPM8
FIRST USED ON OPTION/MODEL: KS10				REV. A





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DPM9.DRW(1,652) FIRST USED ON OPTION MODEL: KS10		DATE 22-MAR-78 01:55 NEXT HIGHER ASSEMBLY: B-DD-M8621-0		SIZE CODE NUMBER REV. D CS M8621-0-DPM9 A		8 7 6 5 4 3 2 1 MR	



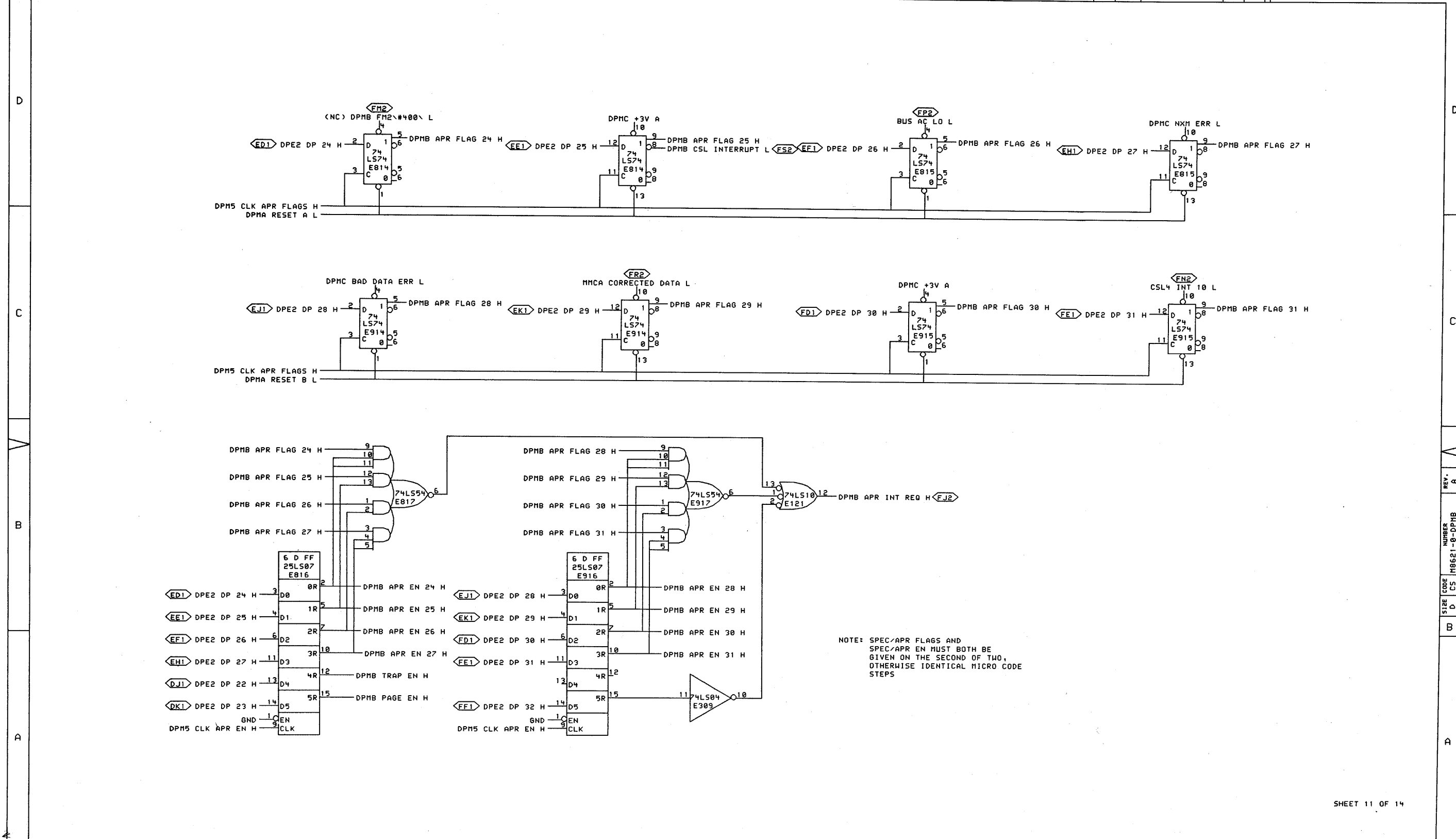
SHEET 10 OF 14

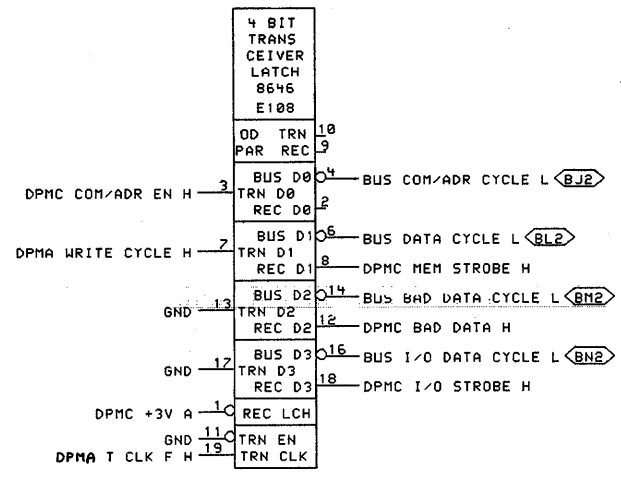
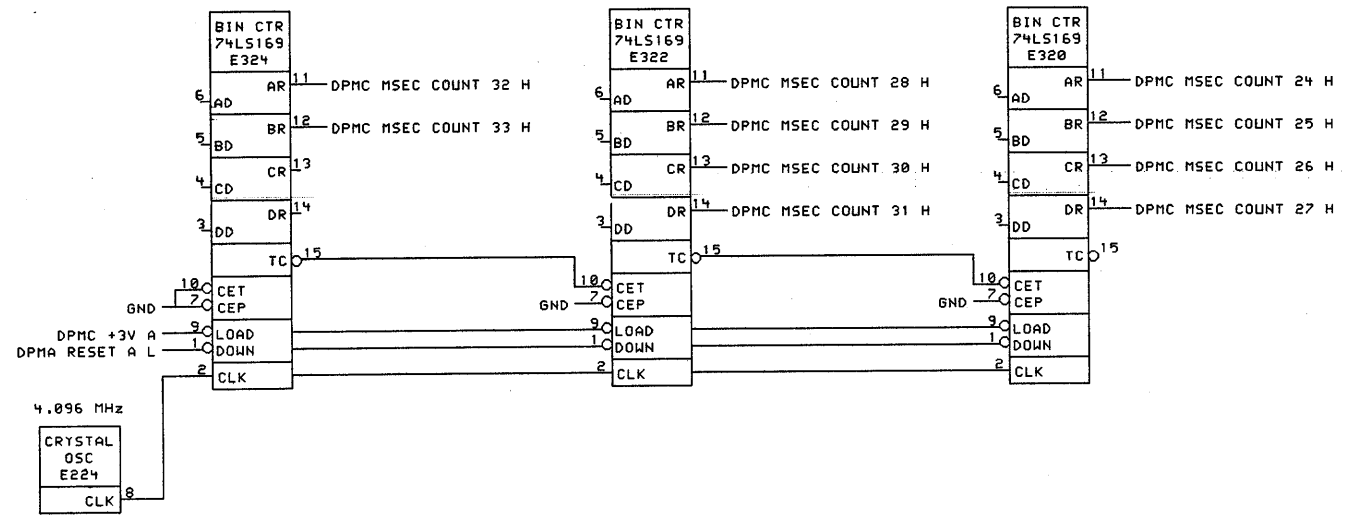
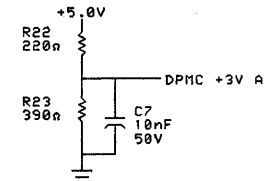
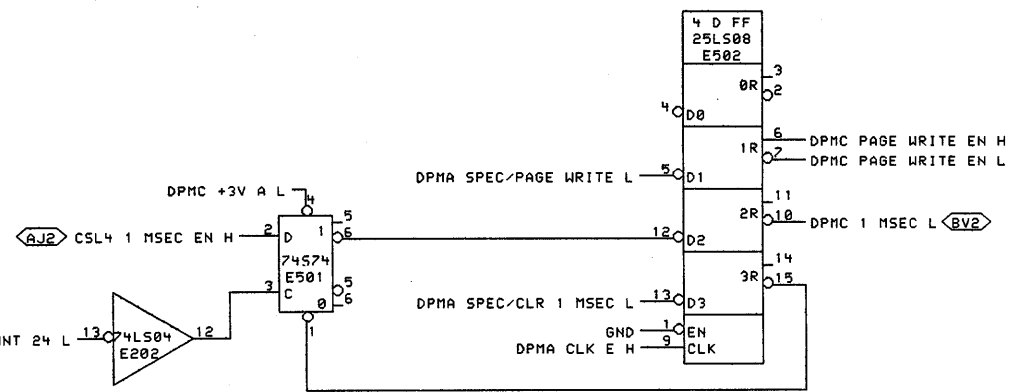
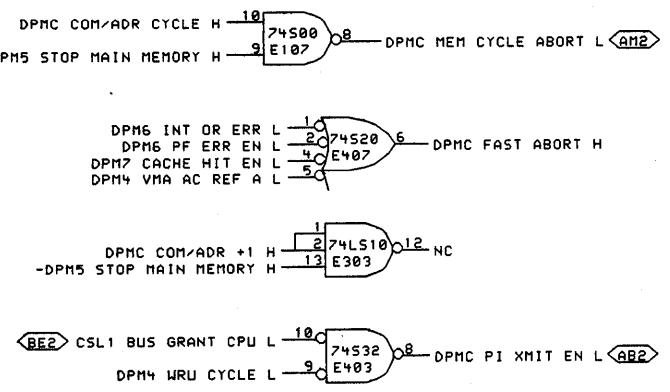
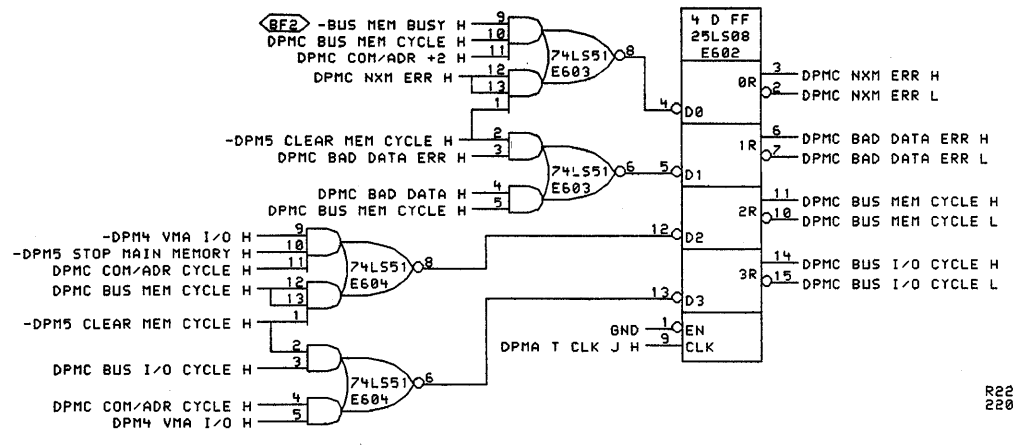
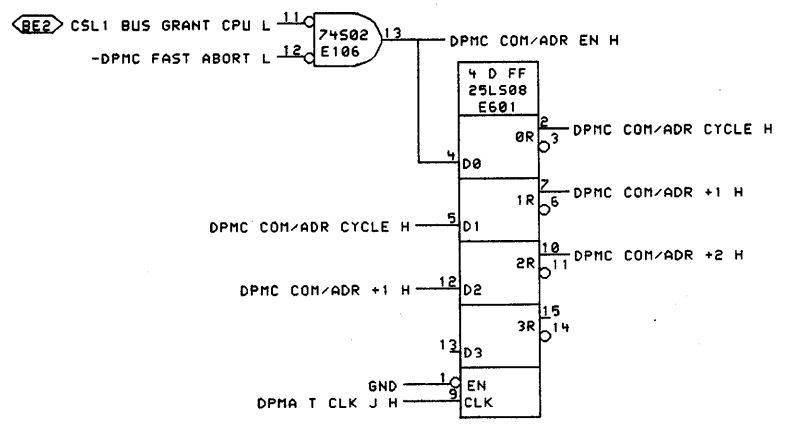
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REVISIONS		
CHK	CHANGE NO.	REV

	DR. J. J. J.	DATE 29-MAR-78	ENG. [Signature]	DATE 29-MAR-78	TITLE: DATA PATH MEMORY CONTROL
	CH. [Signature]	DATE 29-MAR-78	DATE 29-MAR-78	BOARD LOCATION: 1AF14	
DPM4.DRW4.6521		28-MAR-78 12:41	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8621-0		D CS	M8621-0-DPMA


REV. A  
NUMBER 1-0-DPMA  
CS M8621-0-DPMA  
D CS  
B

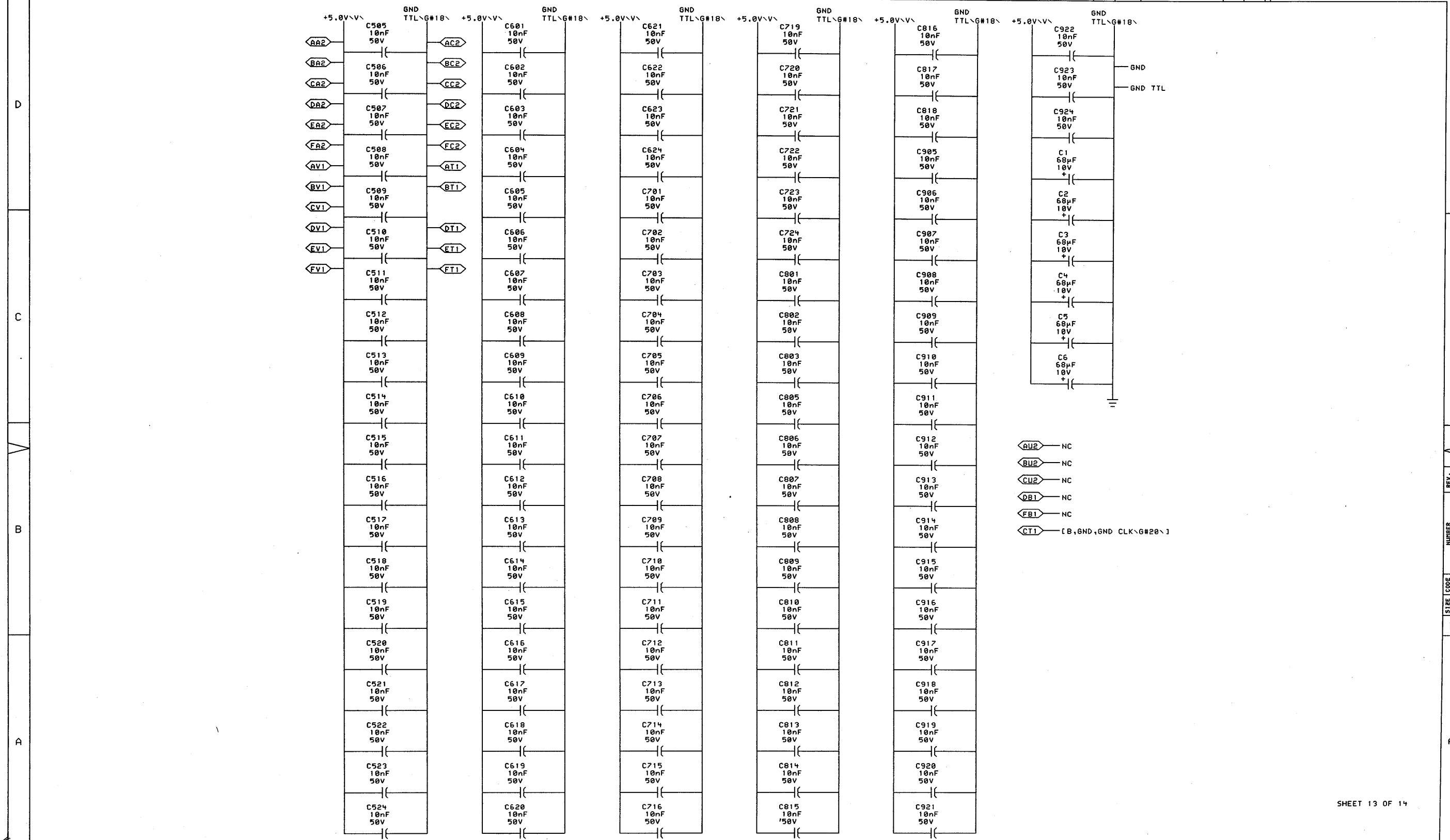




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REVISIONS	
CHK	CHANGE NO. REV.

	DATE: 29-MAR-78 ENG: <i>Small Sewer</i> DATE: 127-MAR-78 15:18 NEXT HIGHER ASSEMBLY: B-DD-M8621-0	DATE: 1/11/78 BOARD LOCATION: IAF14 SHEET: 12 OF 14	TITLE: DATA PATH MEMORY MORE CONTROL
	DPMC.DRW(4,652) FIRST USED ON OPTION/MODEL: KS10	SIZE CODE: D CS NUMBER: M8621-0-DPMC	REV. A

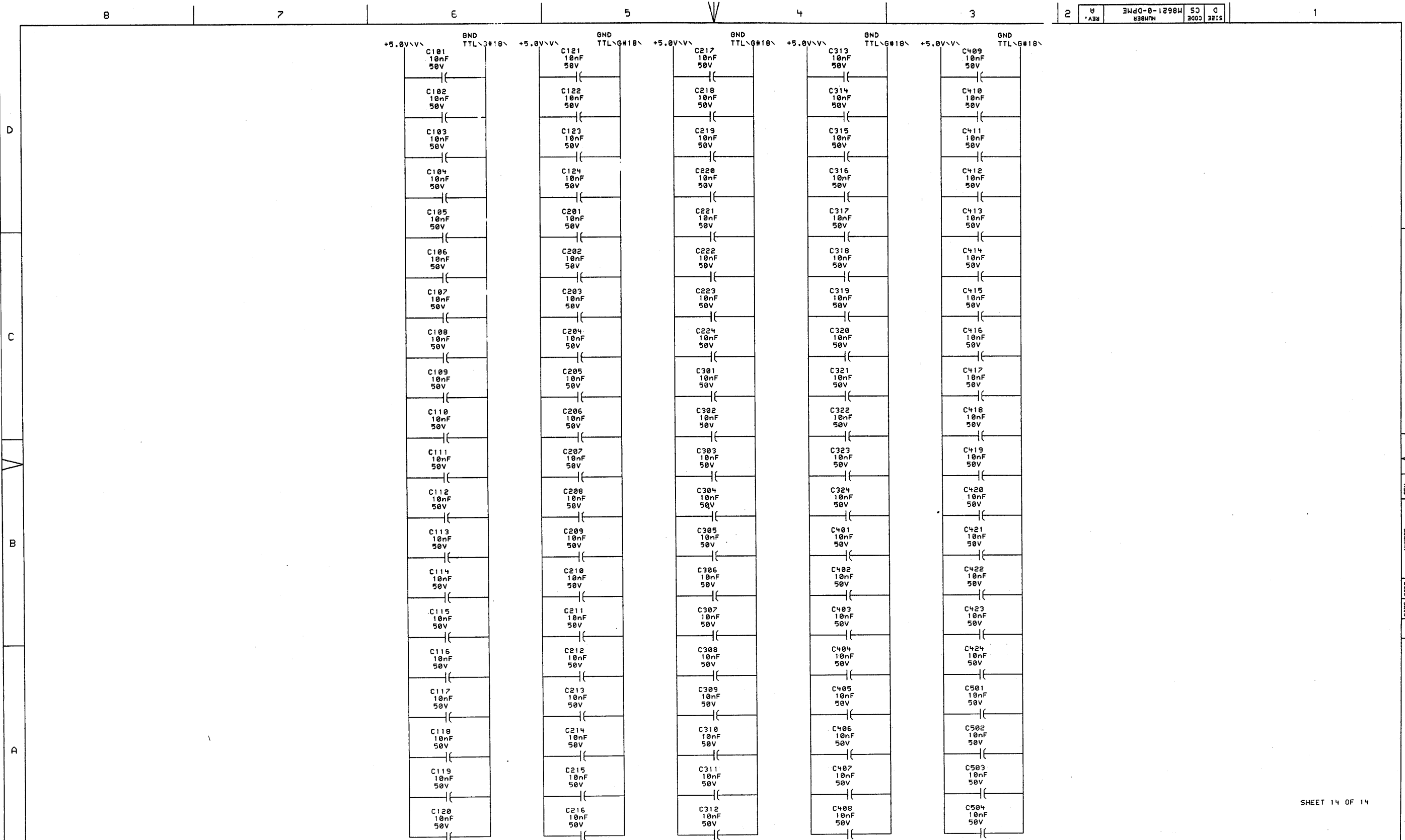


- ⊖A2 — NC
- ⊖B2 — NC
- ⊖C2 — NC
- ⊖D1 — NC
- ⊖E1 — NC
- ⊖F1 — [B,GND,GND CLK\G#20\]

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REVISIONS		
CHK	CHANGE NO.	REV

	DATE: 22-MAR-78	ENG.:	DATE:	TITLE: DATA PATH MEMORY POWER, GND, CAPS
	CHK'D:	DATE:	BOARD LOCATION: 1A14	
SHEET 1 OF 1				SIZE CODE NUMBER REV.
FIRST USED ON OPTION/MODEL: KS10				D CS M8621-0-DPMD A



SHEET 14 OF 14

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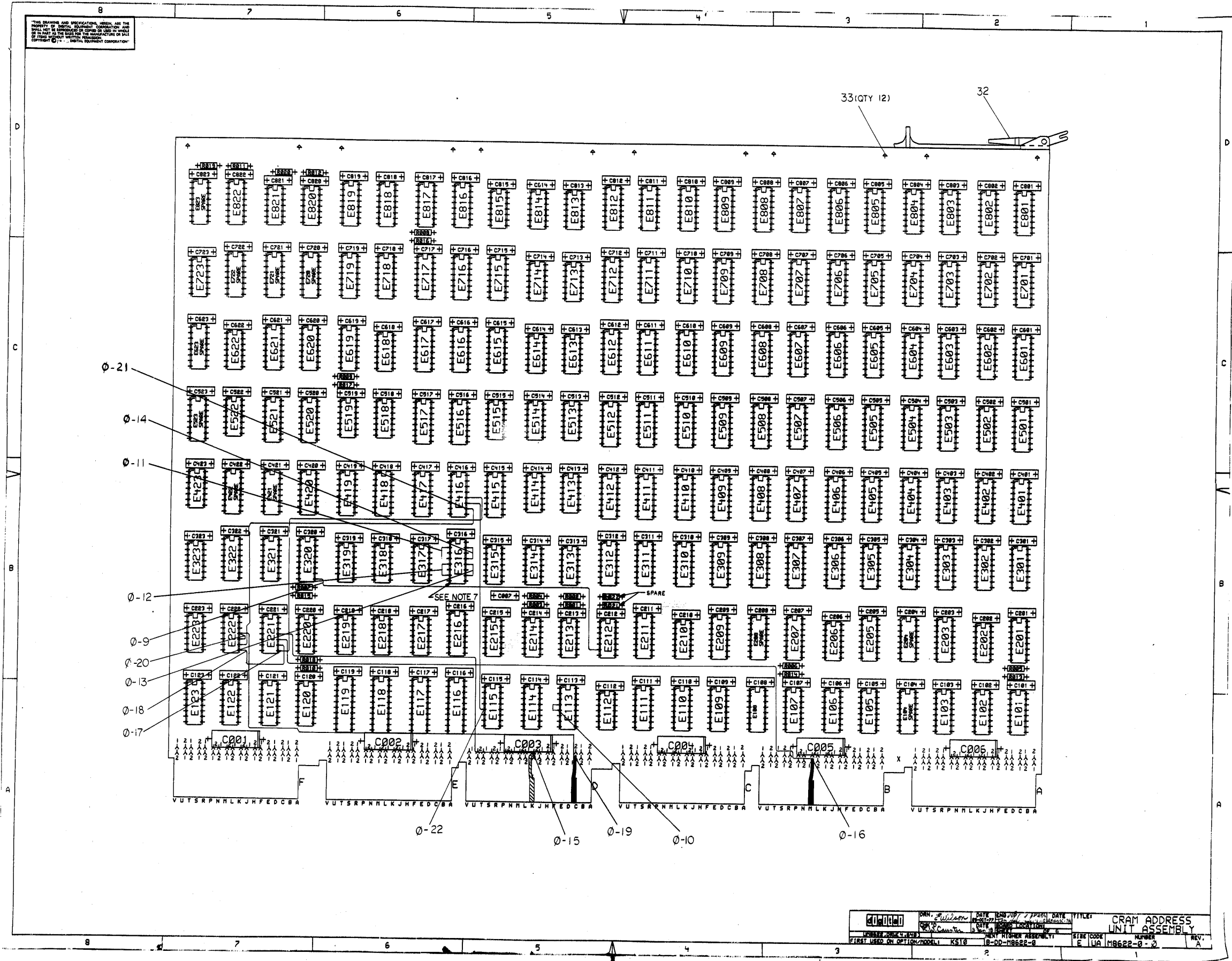
REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRW. <i>J. Loomby</i>	DATE 29-MAR-78	ENG. <i>Richard Lewis</i>	DATE 1 APR 78	TITLE: DATA PATH MEMORY +5.0V CAPS
	CHK. <i>J. Loomby</i>	DATE 127-MAR-78 15:31	BOARD LOCATION: 1AF14	SHEET 1 OF 1	
DPME.DRHL4.6523		NEXT HIGHER ASSEMBLY: B-DD-M8621-0		SIZE CODE D CS	NUMBER M8621-0-DPME
FIRST USED ON OPTION MODEL: KS10				REV. A	

1 MR



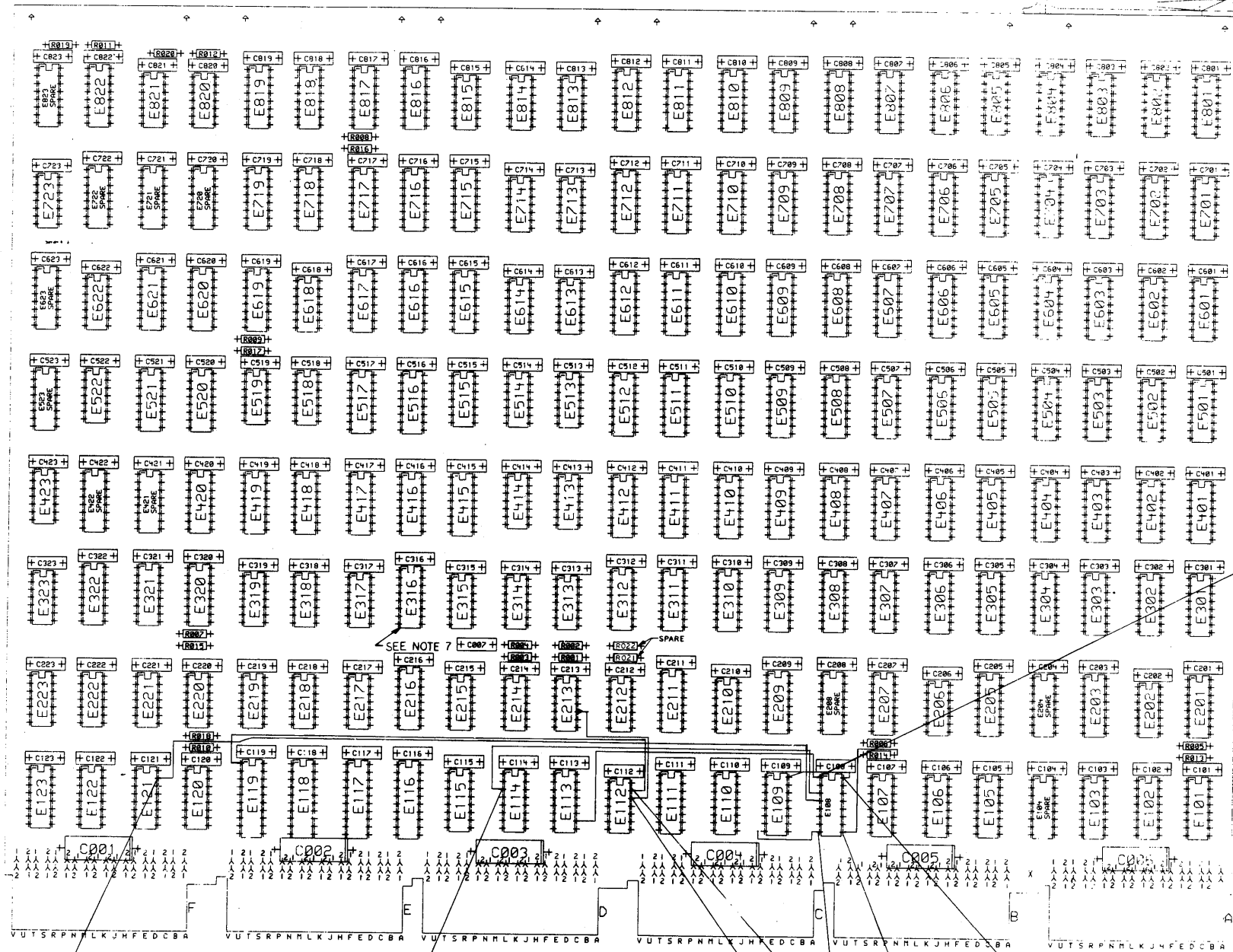
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DATE	REV	BY	CHKD	APP'D	TITLE
10/1/77	1	W. C. ...	...	...	CRAM ADDRESS UNIT ASSEMBLY
FIRST USED ON OPTION/MODEL					REV. A
18-DD-18622-0					E LIA M8622-0-2



0-26



V

A

0-27

0-25

0-23

0-24

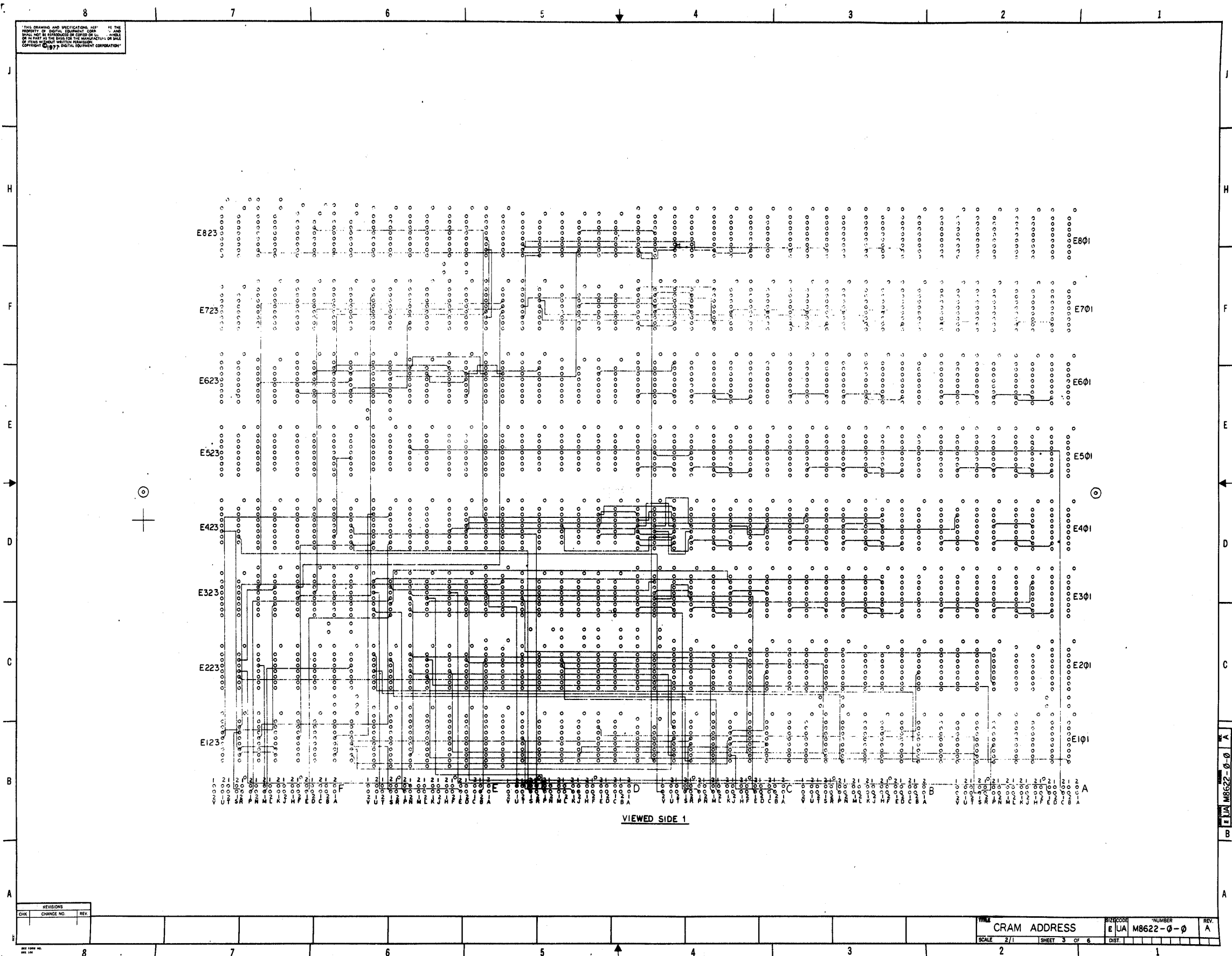
0-29

0-23

0-30

0-26

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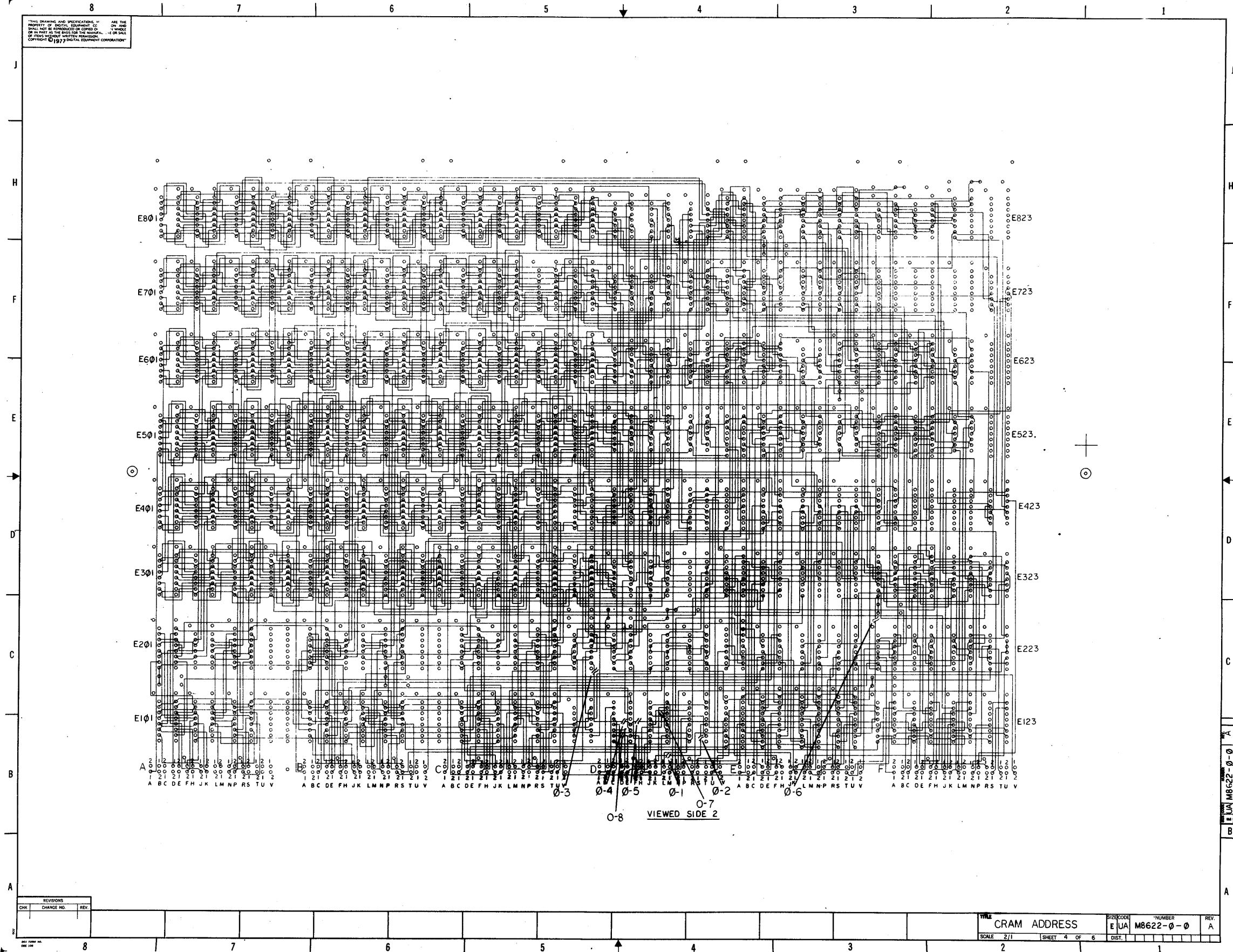


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		NUMBER		REV.
CRAM ADDRESS		EUA M8622-0-0		A
SCALE	SHEET	OF	DIST.	
2/1	3	6		

EUA M8622-0-0 A

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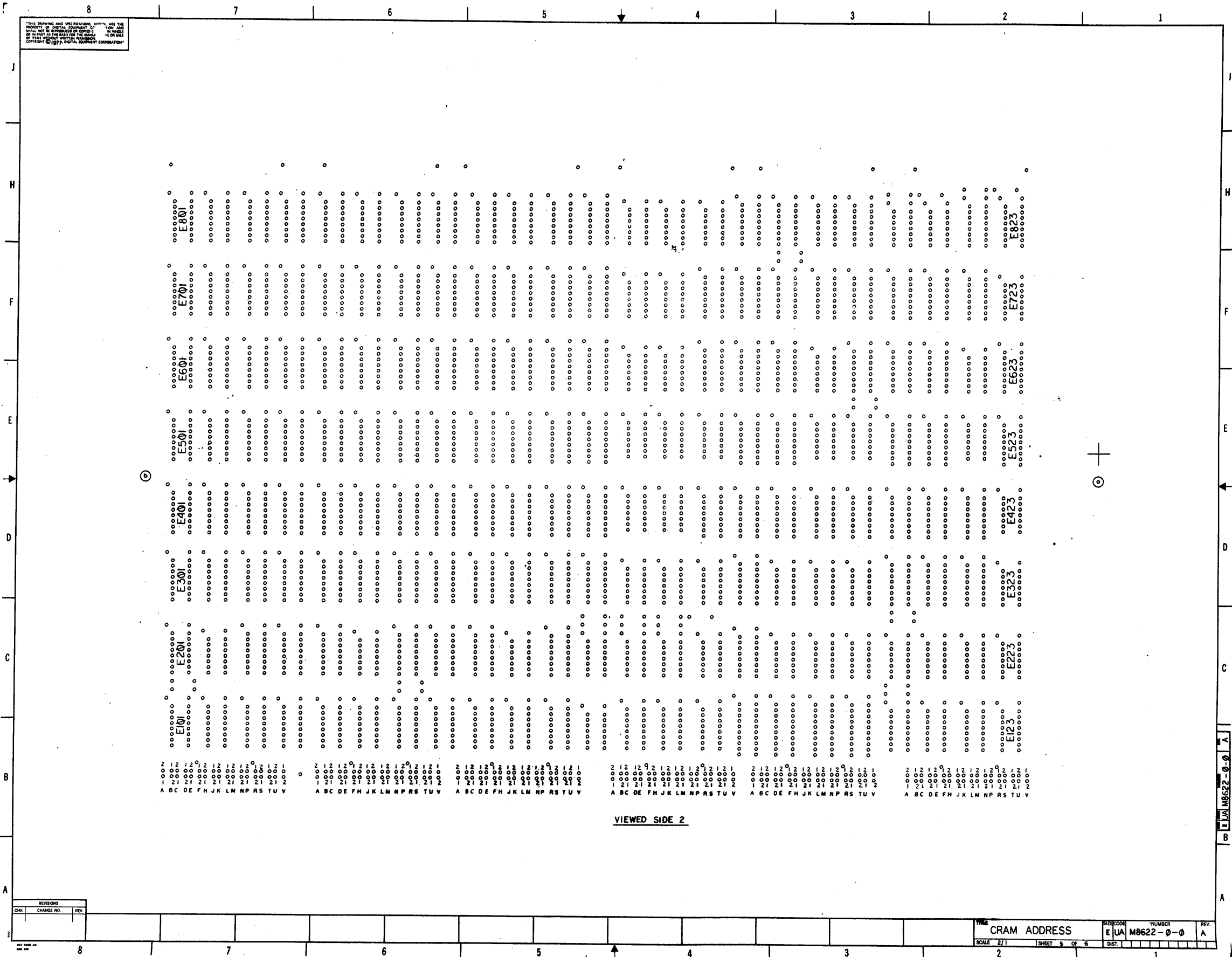


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
CRAM ADDRESS		E/LA	M8622-0-0	A
SCALE 2/1	SHEET 4 OF 6	DIST.		

E/LA M8622-0-0 A

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2 12 12 0  
0 00 00 00  
1 21 21 21  
A B C D E F H J K L M N P R S T U V

2 12 12 0  
0 00 00 00  
1 21 21 21  
A B C D E F H J K L M N P R S T U V

2 12 12 0  
0 00 00 00  
1 21 21 21  
A B C D E F H J K L M N P R S T U V

2 12 12 9  
0 00 00 00  
1 21 21 21  
A B C D E F H J K L M N P R S T U V

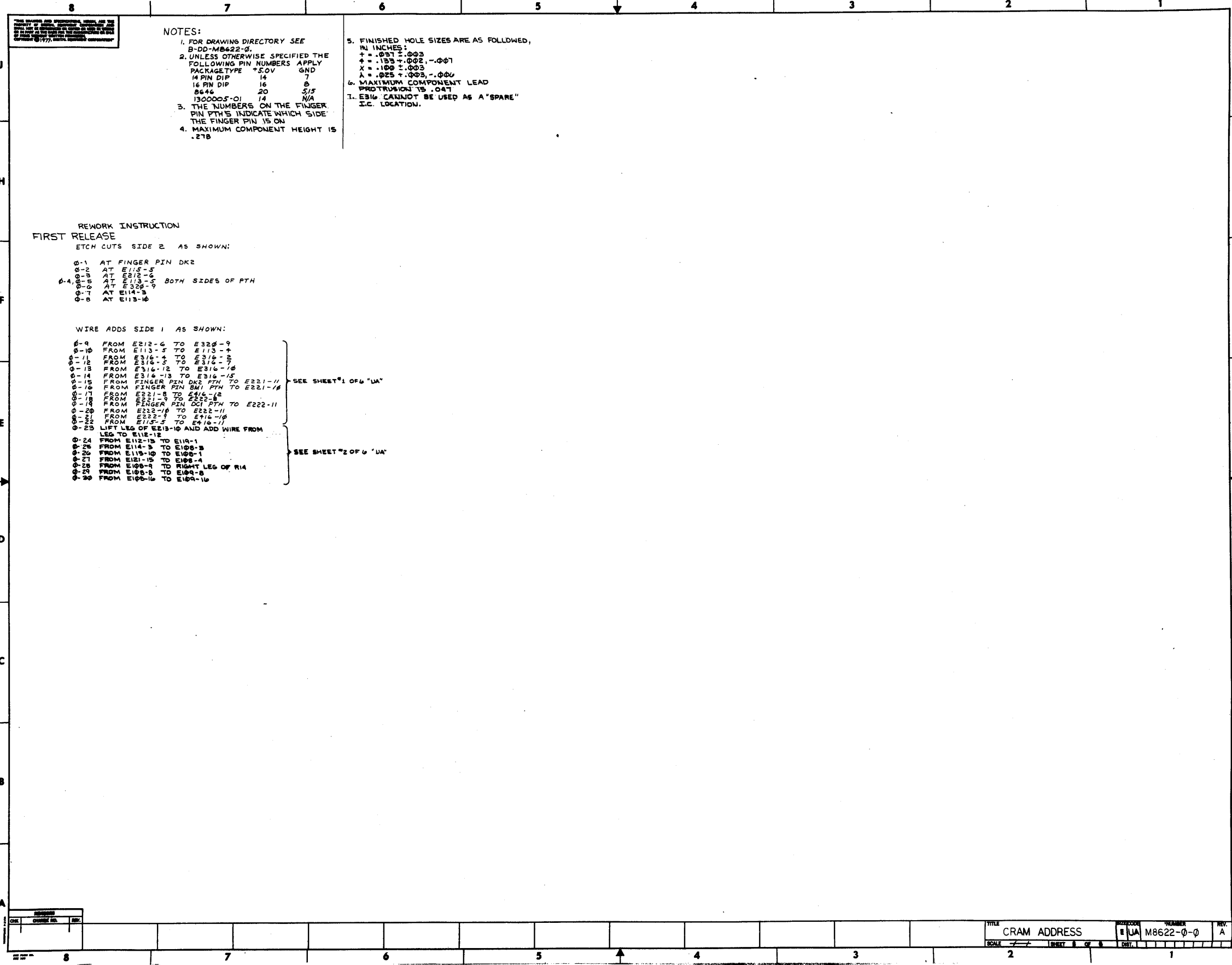
2 12 12 0  
0 00 00 00  
1 21 21 21  
A B C D E F H J K L M N P R S T U V

2 12 12 0  
0 00 00 00  
1 21 21 21  
A B C D E F H J K L M N P R S T U V

VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

CRAM ADDRESS  
SCALE 2/1 SHEET 5 OF 6  
EUA M8622-0-0  
NUMBER  
REV. A



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NOTES:  
 1. FOR DRAWING DIRECTORY SEE B-DD-M8622-0.  
 2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY  
 PACKAGE TYPE \*5.0V GND  
 14 PIN DIP 14 7  
 16 PIN DIP 16 8  
 8646 20 5/5  
 1300005-01 14 N/A  
 3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON  
 4. MAXIMUM COMPONENT HEIGHT IS .278

5. FINISHED HOLE SIZES ARE AS FOLLOVED, IN INCHES:  
 + = .031 ± .003  
 + = .133 ± .002, -.001  
 X = .100 ± .003  
 A = .025 ± .003, -.000  
 6. MAXIMUM COMPONENT LEAD PROTRUSION IS .041  
 7. E316 CANNOT BE USED AS A "SPARE" I.E. LOCATION.

REWORK INSTRUCTION  
 FIRST RELEASE

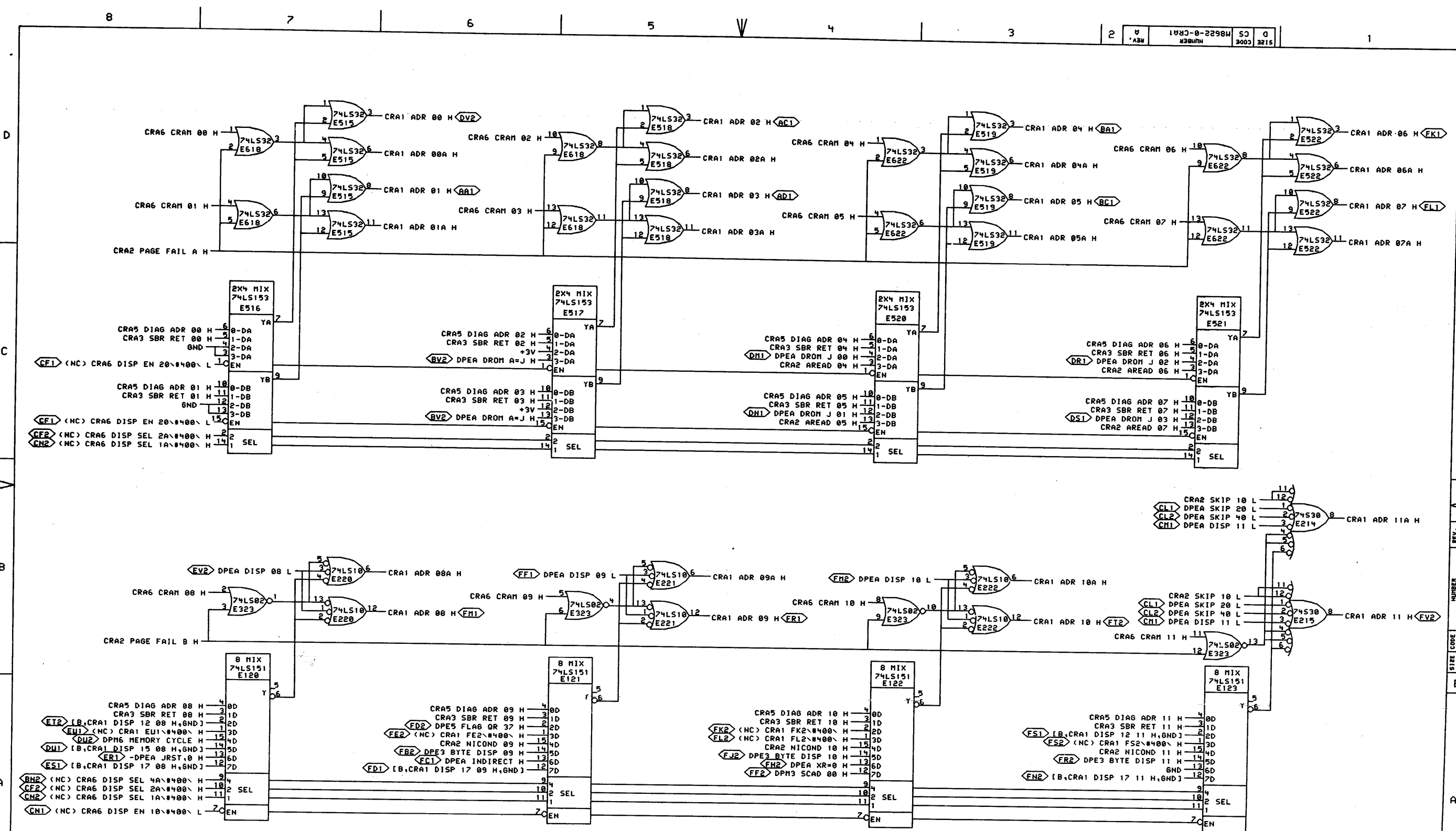
ETCH CUTS SIDE 2 AS SHOWN:  
 0-1 AT FINGER PIN DK2  
 0-2 AT E115-5  
 0-3 AT E212-6  
 0-4, 0-5 AT E113-5 BOTH SIDES OF PTH  
 0-6 AT E320-9  
 0-7 AT E114-3  
 0-8 AT E113-10

WIRE ADDS SIDE 1 AS SHOWN:  
 0-9 FROM E212-6 TO E320-9  
 0-10 FROM E113-5 TO E113-4  
 0-11 FROM E316-4 TO E316-3  
 0-12 FROM E316-3 TO E316-7  
 0-13 FROM E316-12 TO E316-10  
 0-14 FROM E316-13 TO E316-15  
 0-15 FROM FINGER PIN DK2 PTH TO E221-11  
 0-16 FROM FINGER PIN SW1 PTH TO E221-10  
 0-17 FROM E221-8 TO E416-12  
 0-18 FROM E221-9 TO E221-8  
 0-19 FROM FINGER PIN DC1 PTH TO E222-11  
 0-20 FROM E222-10 TO E222-11  
 0-21 FROM E222-9 TO E416-10  
 0-22 FROM E115-5 TO E416-11  
 0-23 LIFT LEG OF E213-10 AND ADD WIRE FROM LEG TO E112-12  
 0-24 FROM E112-13 TO E114-1  
 0-25 FROM E114-3 TO E100-3  
 0-26 FROM E113-10 TO E100-1  
 0-27 FROM E121-15 TO E100-4  
 0-28 FROM E100-1 TO RIGHT LEG OF R14  
 0-29 FROM E100-3 TO E100-5  
 0-30 FROM E100-10 TO E100-10

SEE SHEET "1 OF 6" "LA"  
 SEE SHEET "2 OF 6" "LA"

REV	DATE	BY

TITLE: GRAM ADDRESS  
 DRAWING CODE: 8 LJA  
 PART NUMBER: M8622-0-0  
 REV: A  
 SCALE: 1/1  
 SHEET 8 OF 8  
 DIST. 1



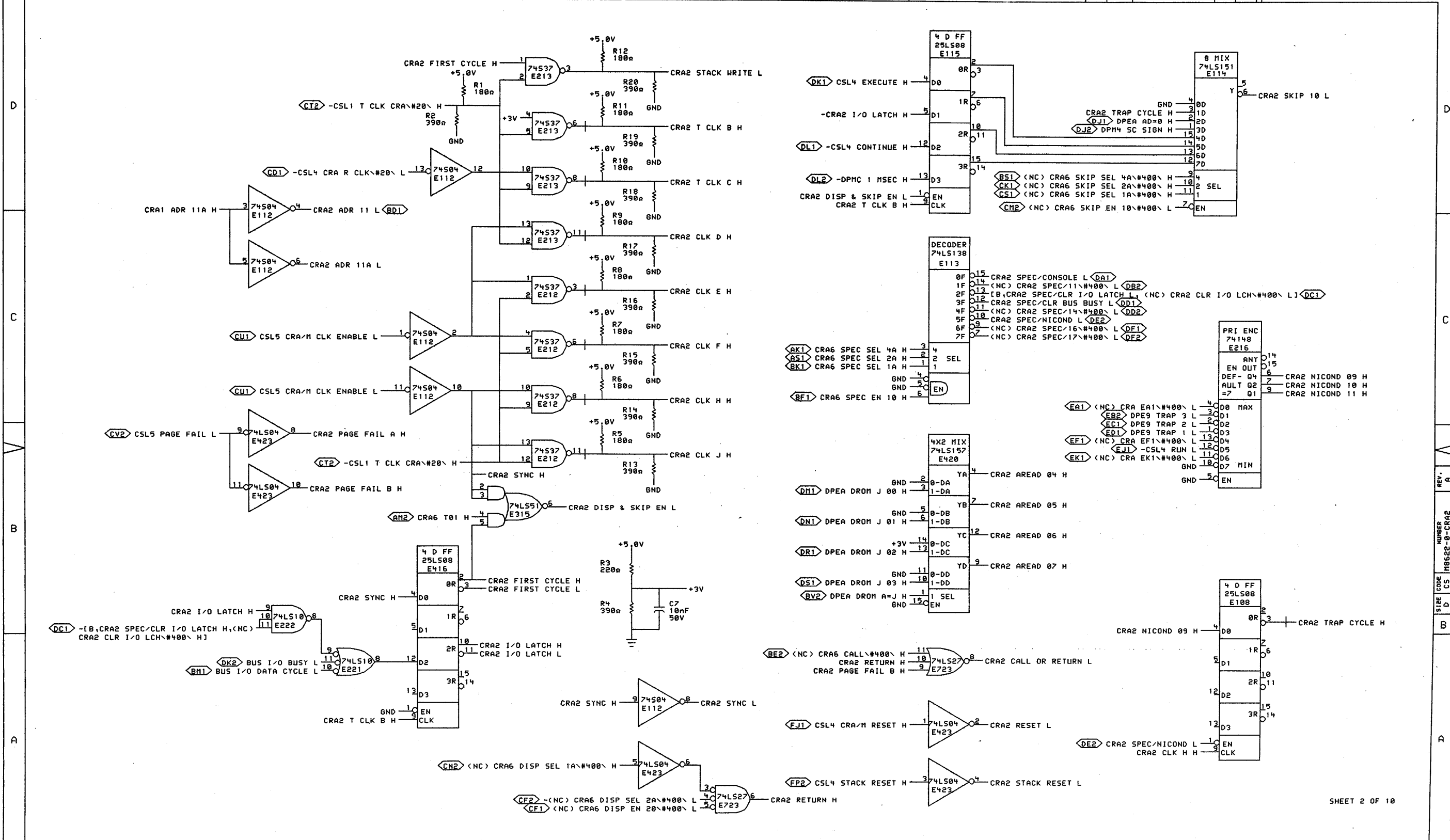
SHEET 1 OF 10

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REVISIONS		
CHK	CHANGE NO.	REV

	DRN: <i>J. Family</i> DATE: 13-MAR-78 BOARD LOCATION: IAF12	ENG: <i>John...</i> DATE: 13-MAR-78 SHEET: 1 OF 1	TITLE: CRAM ADDRESS ADR BITS 00-11
	CRA1.DRM: 4,633 FIRST USED ON OPTION/MODEL: KS10	13-MAR-78 14:31 NEXT HIGHER ASSEMBLY: B-DD-M8622-0	SIZE CODE: D CS NUMBER: M8622-0-CRA1

REV. A  
 NUMBER CS M8622-0-CRA1  
 SIZE CODE D CS M8622-0-CRA1  
 REV. A

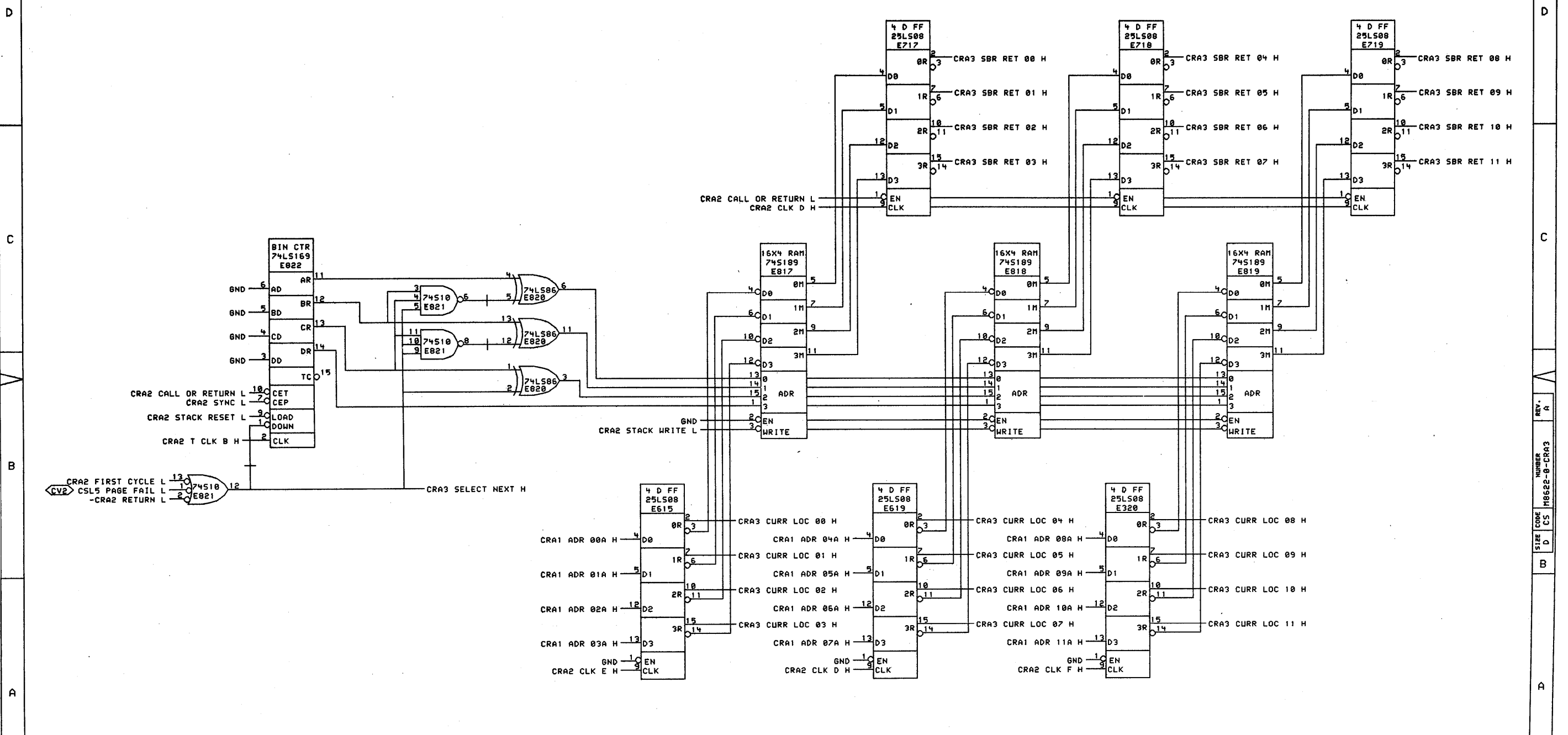


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REVISIONS		
CHK	CHANGE NO.	REV

<b>digital</b>	DATE: 28-MAR-78	ENG.:	DATE: 24-MAR-78	TITLE: CRAM ADDRESS CONTROL
CRA2 DRH 4, 6531	DATE: 128-MAR-78 21:03	DATE: 128-MAR-78	DATE: 128-MAR-78	DATE: 128-MAR-78
FIRST USED ON OPTION/MODEL: KS10	NEXT HIGHER ASSEMBLY: B-DD-M8622-0	BOARD LOCATION: 1AF12	BOARD LOCATION: 1AF12	BOARD LOCATION: 1AF12
		SHEET 1 OF 1	SHEET 1 OF 1	SHEET 1 OF 1

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA2	A



SHEET 3 OF 10

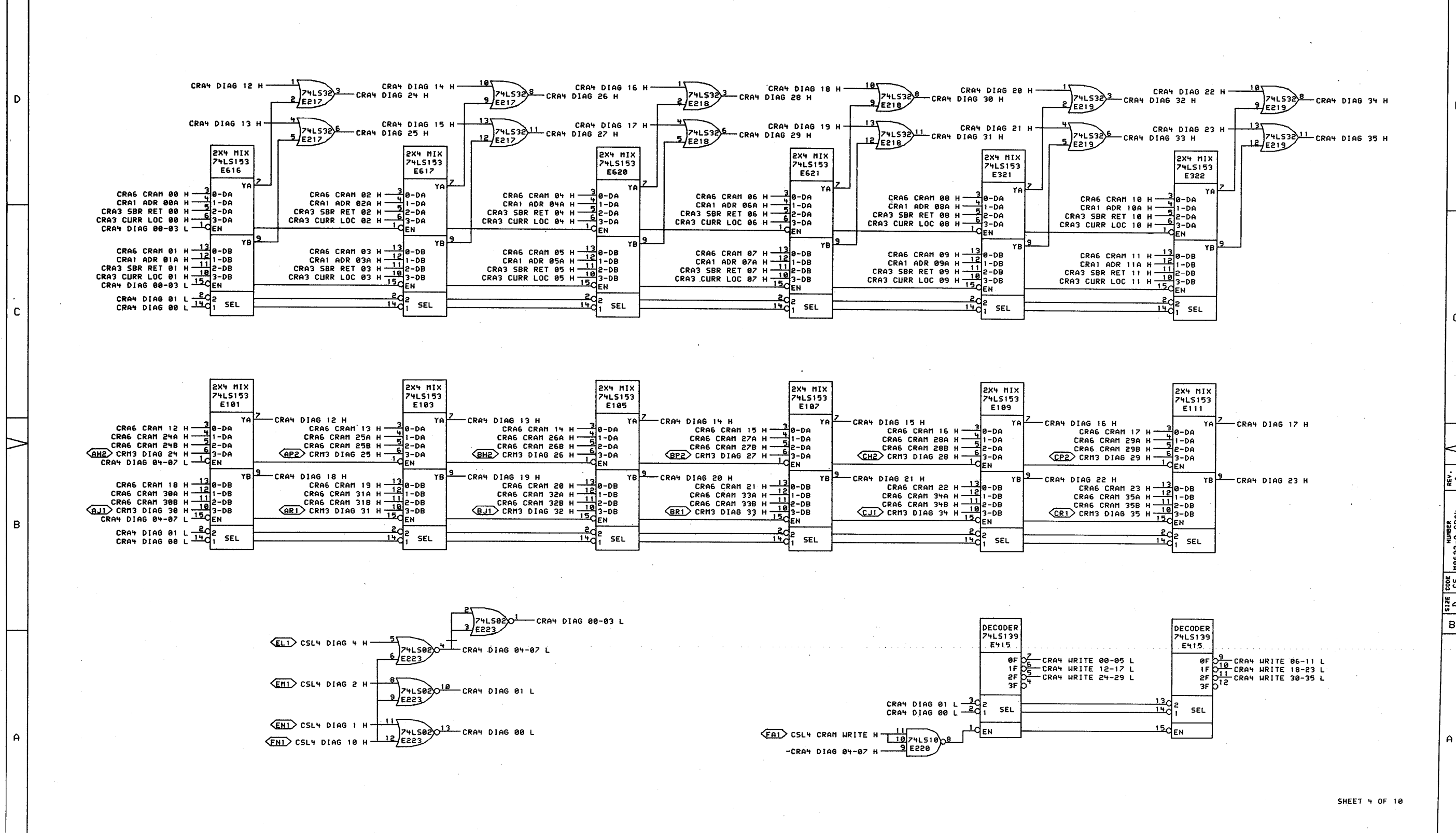
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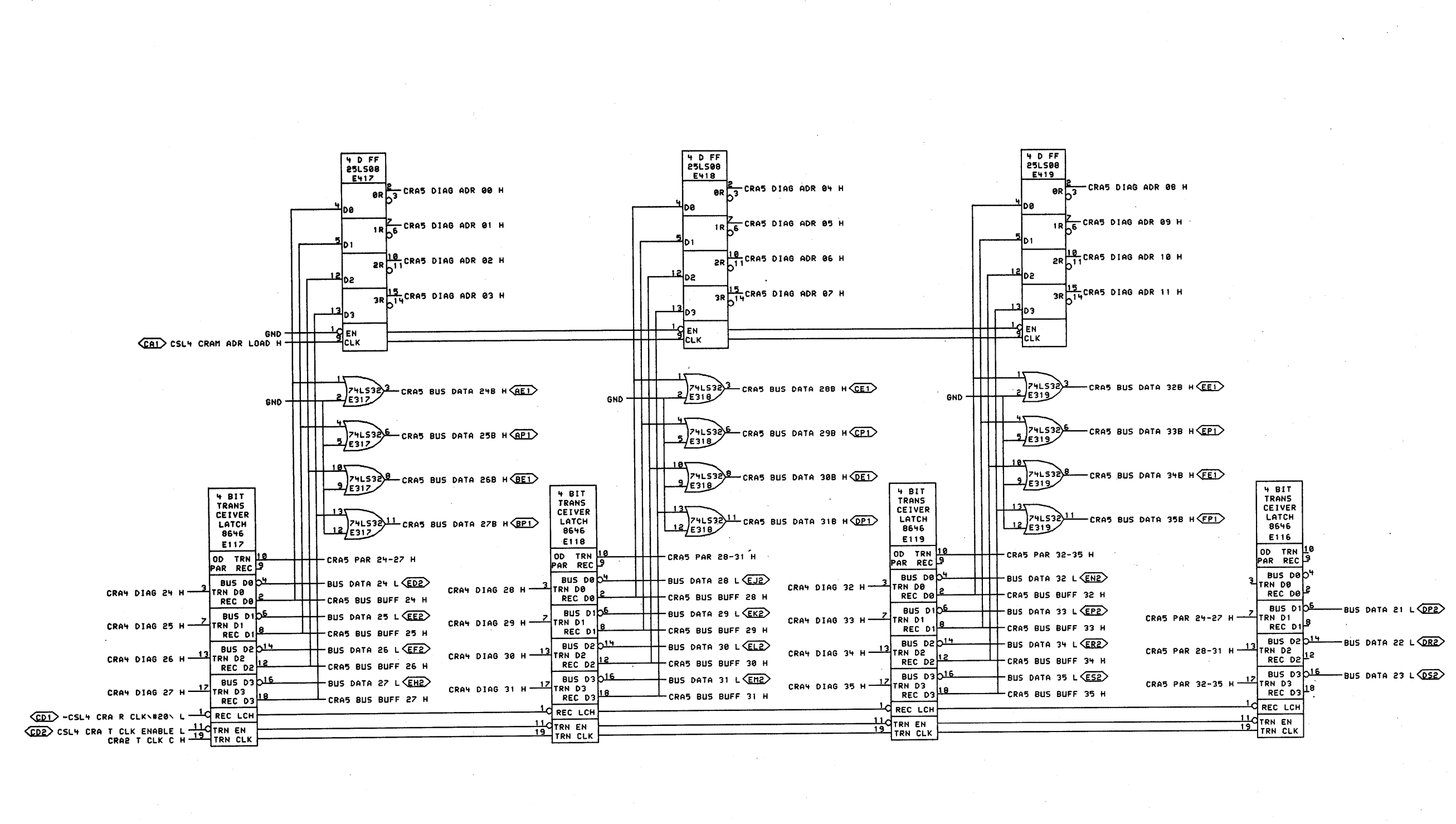
REVISIONS		
CHK	CHANGE NO.	REV

DATE	ENG.	DATE	TITLE:
13-MAR-78	J. J. J.	29-MAR-78	CRAM ADDRESS SUBROUTINE STACK
CHK'D.	DATE	BOARD LOCATION:	IAP12
	173-MAR-78 14132	SHEET	1 OF 1
CRA3.DRW14.6533		NEXT HIGHER ASSEMBLY:	B-DD-M8622-0
FIRST USED ON OPTION/MODEL:		KS10	

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA3	A





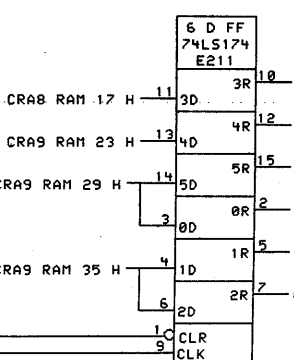
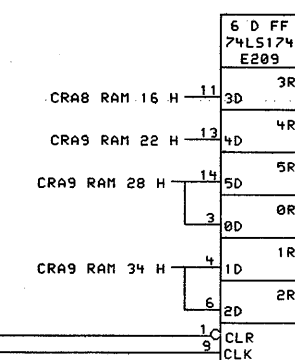
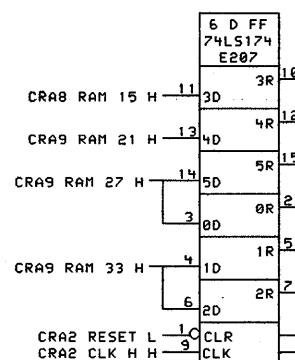
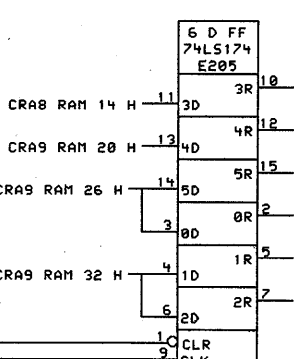
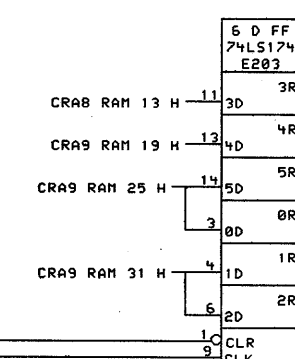
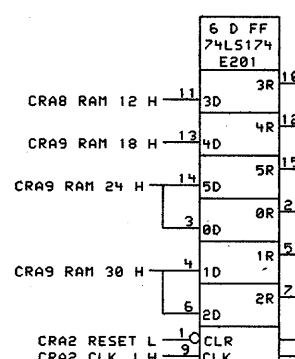
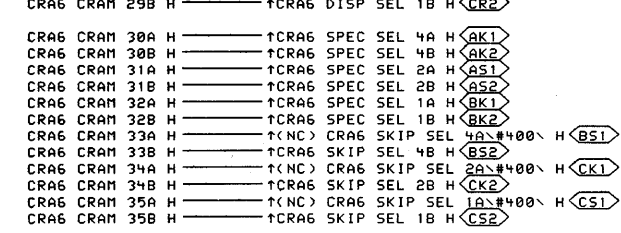
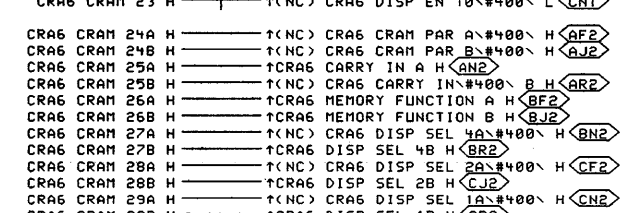
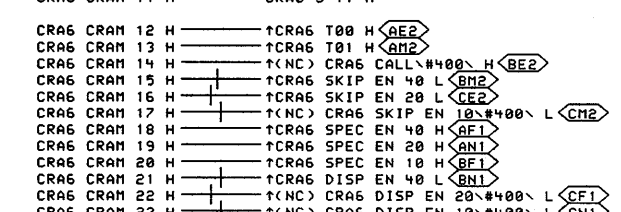
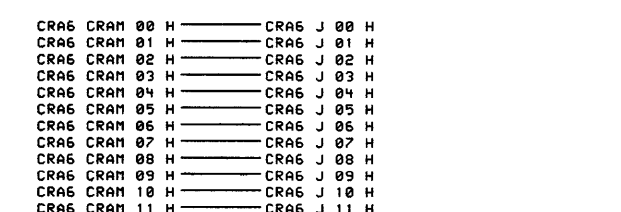
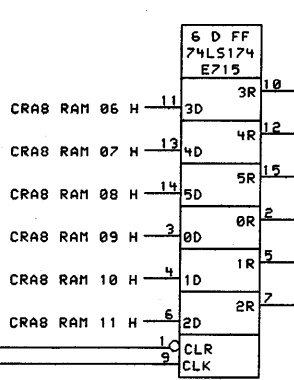
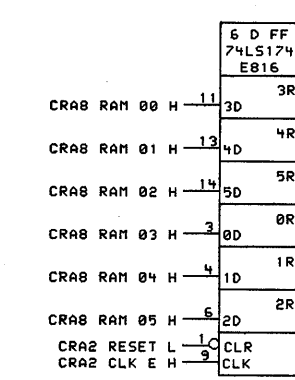
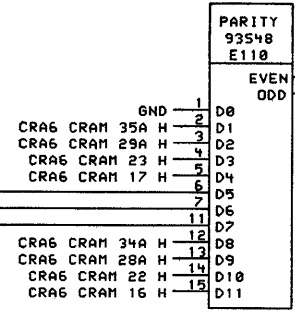
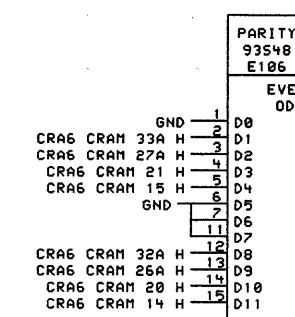
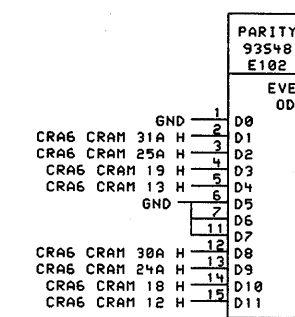
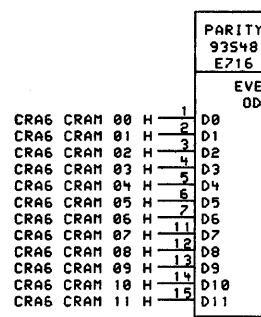
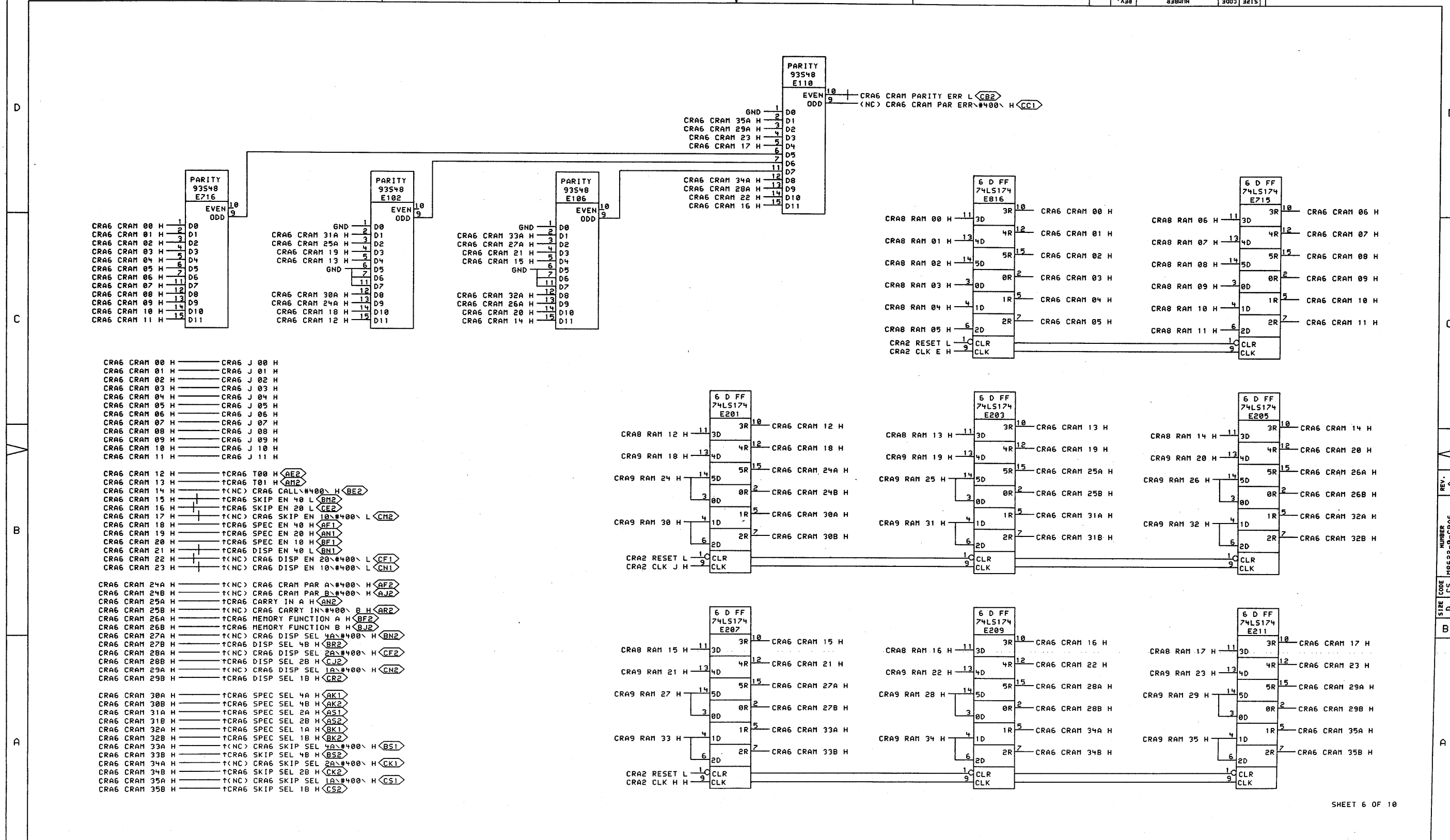


SHEET 5 OF 10

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REVISIONS	
CHK	CHANGE NO. REV

digital	DATE 13-MAR-78	ENG. J. J. J.	DATE 13-MAR-78	TITLE: CRAM ADDRESS BACKPANEL BUS
	DATE 13-MAR-78	CHK. J. J. J.	DATE 13-MAR-78	BOARD LOCATION: 1AF12
CRA5.DRM 4.6531	13-MAR-78 14:54	NEXT HIGHER ASSEMBLY:	SIZE CODE D CS	NUMBER M8622-0-CRA5
FIRST USED ON OPTION/MODEL: K510	B-DD-M8622-0	SHEET 1 OF 1	REV. A	



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REVISIONS		
CHK	CHANGE NO.	REV

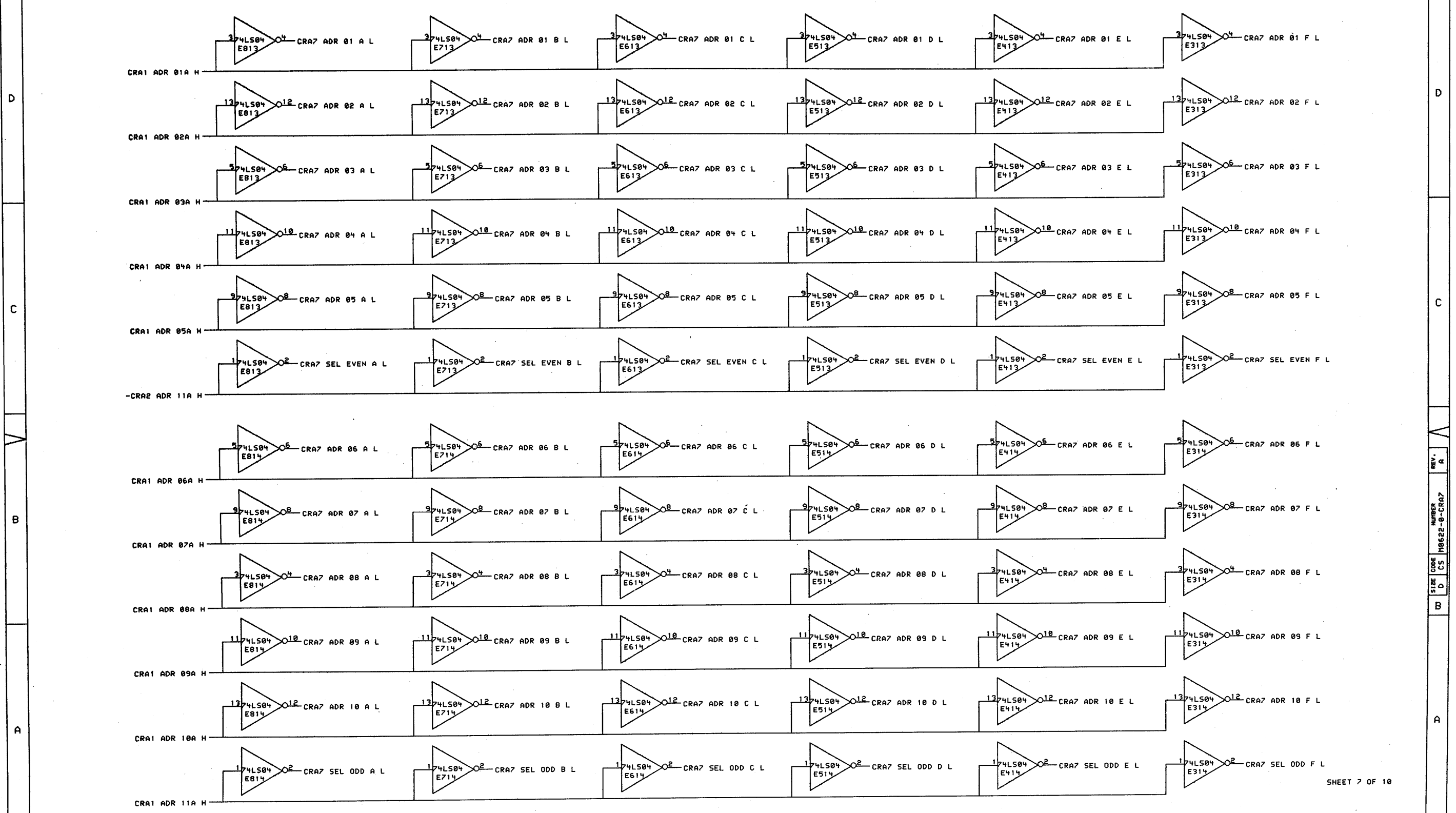
digital

DATE 28-MAR-78  
 ENG. J. J. J.  
 DATE 29-MAR-78  
 BOARD LOCATION: 1AF12  
 SHEET 1 OF 1

TITLE: CRAM ADDRESS CRAM REGISTER

SIZE CODE NUMBER REV.  
 D CS M8622-0-CRAG A

FIRST USED ON OPTION/MODEL: KS10  
 NEXT HIGHER ASSEMBLY: B-DD-M8622-0

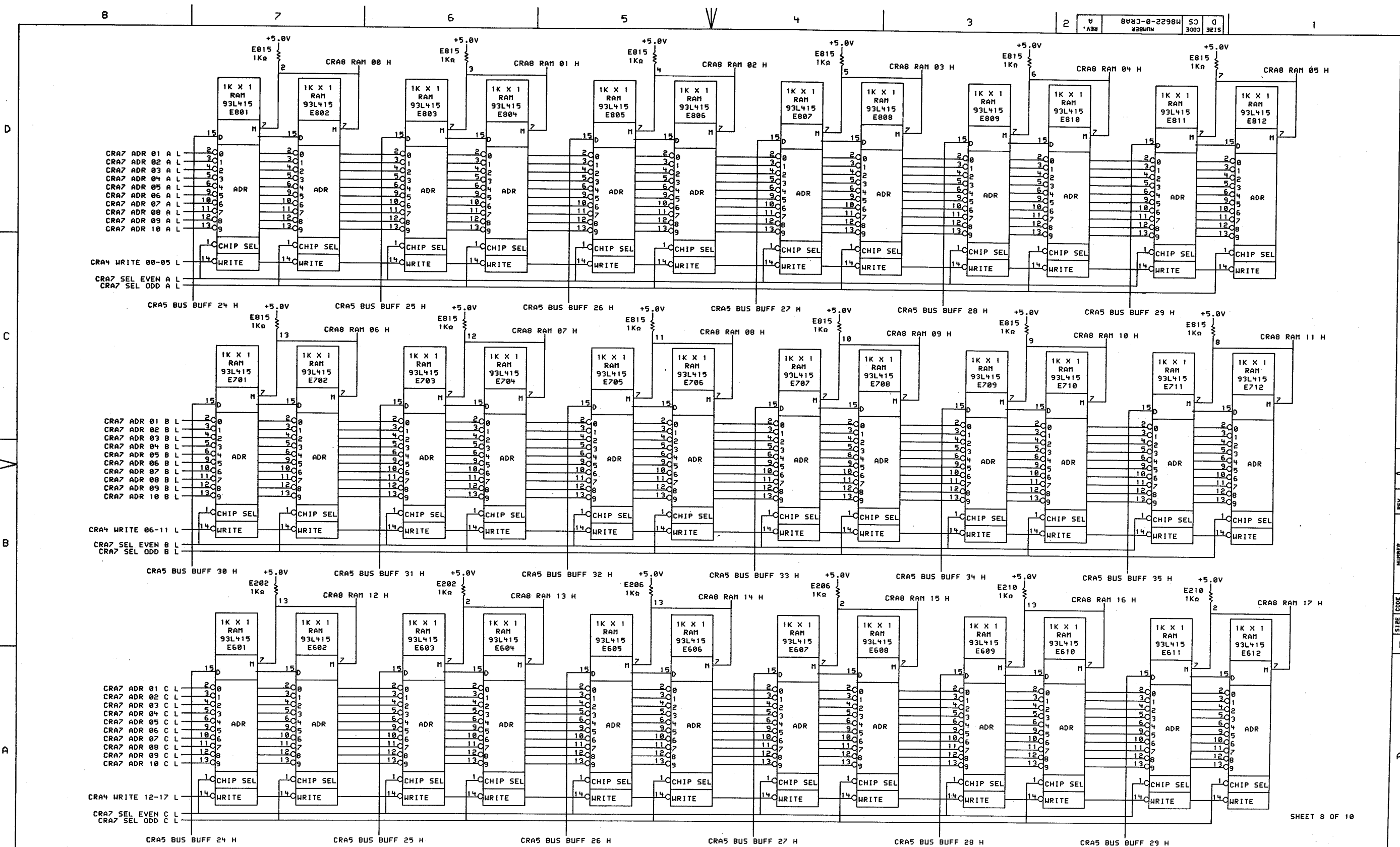


SHEET 7 OF 10

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REVISIONS		
CHK	CHANGE NO.	REV

	DATE	ENG.	DATE	TITLE:
	13-MAR-78	Small	13-MAR-78	GRAM ADDRESS ADDRESS DRIVERS
	DATE	BOARD LOCATION:	1 OF 1	
	13-MAR-78 15:14	1A12		
	FIRST USED ON OPTION/MODEL:	NEXT HIGHER ASSEMBLY:		
	KS10	B-DD-M8622-0		
		SIZE	CODE	NUMBER
		D	CS	M8622-0-CRA7
				REV.
				A



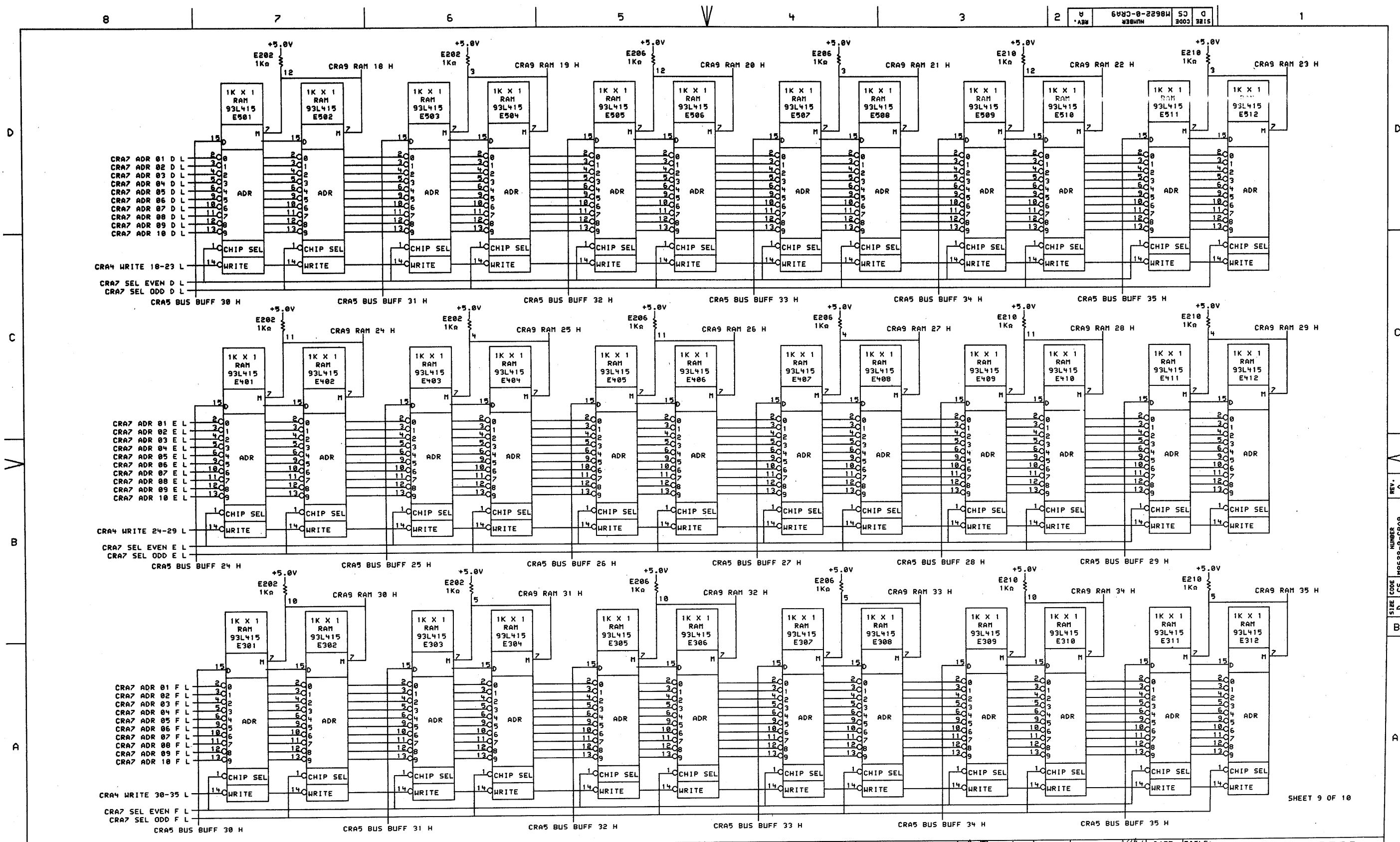
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REVISIONS		
CHK	CHANGE NO.	REV

8	7	6	5	4	3	2	1
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	DATE	ENG.	DATE	TITLE:
	13-MAR-78	W. J. Looney	24-MAR-78	CGRAM ADDRESS
	DATE	BOARD LOCATION	SHEET	OF
	13-MAR-78	1517	1	1
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8622-0		REV. A

SIZE CODE NUMBER REV.  
 D CS M8622-0-CRAB A



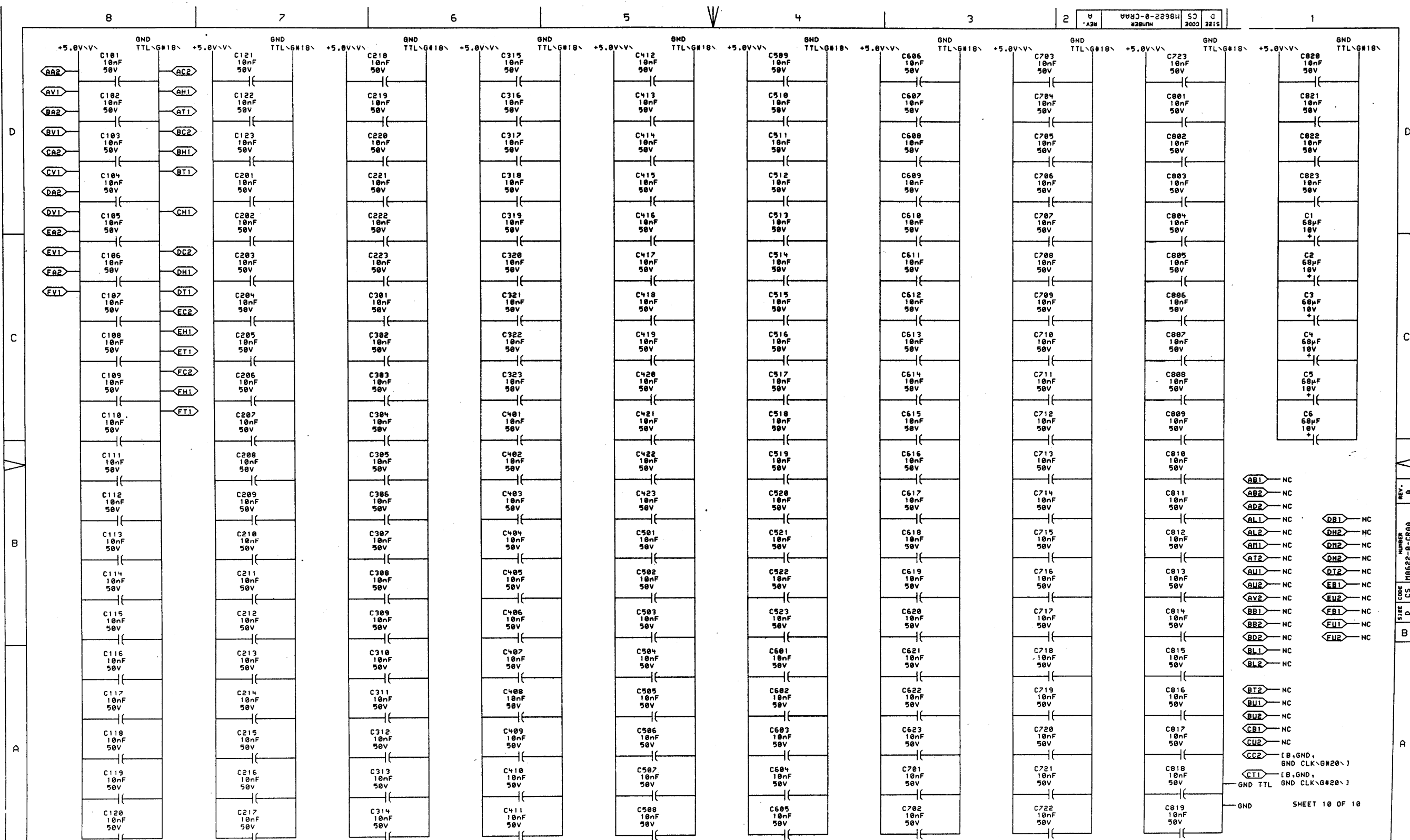
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REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1
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	DR. J. J. J.	DATE 13-MAR-78	ENG. J. J. J.	DATE 13-MAR-78	TITLE: CRAM ADDRESS
	13-MAR-78	13-MAR-78	13-MAR-78	13-MAR-78	06-11 18-23 30-35
CRA9.DRW 4,653		13-MAR-78 15:19	NEXT HIGHER ASSEMBLY: B-DD-M8622-0		SIZE CODE D CS
FIRST USED ON OPTION/MODEL: K510		SHEET 1 OF 1		NUMBER M8622-0-CRA9	REV. A

SHEET 9 OF 10  
 REV. A  
 NUMBER M8622-0-CRA9  
 CODE CS  
 SIZE D



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REVISIONS		
CHK	CHANGE NO.	REV

	DATE	ENG.	DATE	TITLE:
	28-MAR-78	Small	24-MAR-78	CRAM ADDRESS POWER, GND, CAPS
CRAM, DRWL4, 653	DATE	BOARD LOCATION:	REV.	
28-MAR-78 09:50	12/12	1	A	
FIRST USED ON OPTION/MODEL: K510				

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS													
				1	2	3	4	5	6	7	8	9	10	11	12		
			MODULE REVISION	A													
E-UA-M8623-∅-∅	5		KSI∅ CONTROL RAM	A													
K-PL-M8623-∅-DBP	-		PARTS LIST DATA BASE (M8623)	A													
D-CS-M8623-∅-CRM1	1		CONTROL RAM, ADDRESS DRIVERS	A													
D-CS-M8623-∅-CRM2	1		CONTROL RAM, OUTPUT REGISTERS	A													
D-CS-M8623-∅-CRM3	1		CONTROL RAM, PAR & DIAG	A													
D-CS-M8623-∅-CRM4	1		CONTROL RAM, RAMS 36-47	A													
D-CS-M8623-∅-CRM5	1		CONTROL RAM, RAMS 48-59	A													
D-CS-M8623-∅-CRM6	1		CONTROL RAM, RAMS 60-71	A													
D-CS-M8623-∅-CRM7	1		CONTROL RAM, RAMS 72-83	A													
D-CS-M8623-∅-CRM8	1		CONTROL RAM, RAMS 84-95	A													
D-CS-M8623-∅-CRM9	1		CONTROL RAM, POWER, GROUND, CAPS	A													
E-MD-5013198-0-0	5		DRILL, WIRE, & COMP SCREEN, DRAWING	A													
	-	5013198	MULTIWIRE BOARD	A													
K-PC-M8623-∅-DBC	-		MULTIWIRE DATA BASE (M8623)	A													
	-																
POO-M8623-∅∅	-		PROCESS SHEETS	REF													

**NOTES:**

REV. DATE	CHG NO.	REV. NO.
		ORIG

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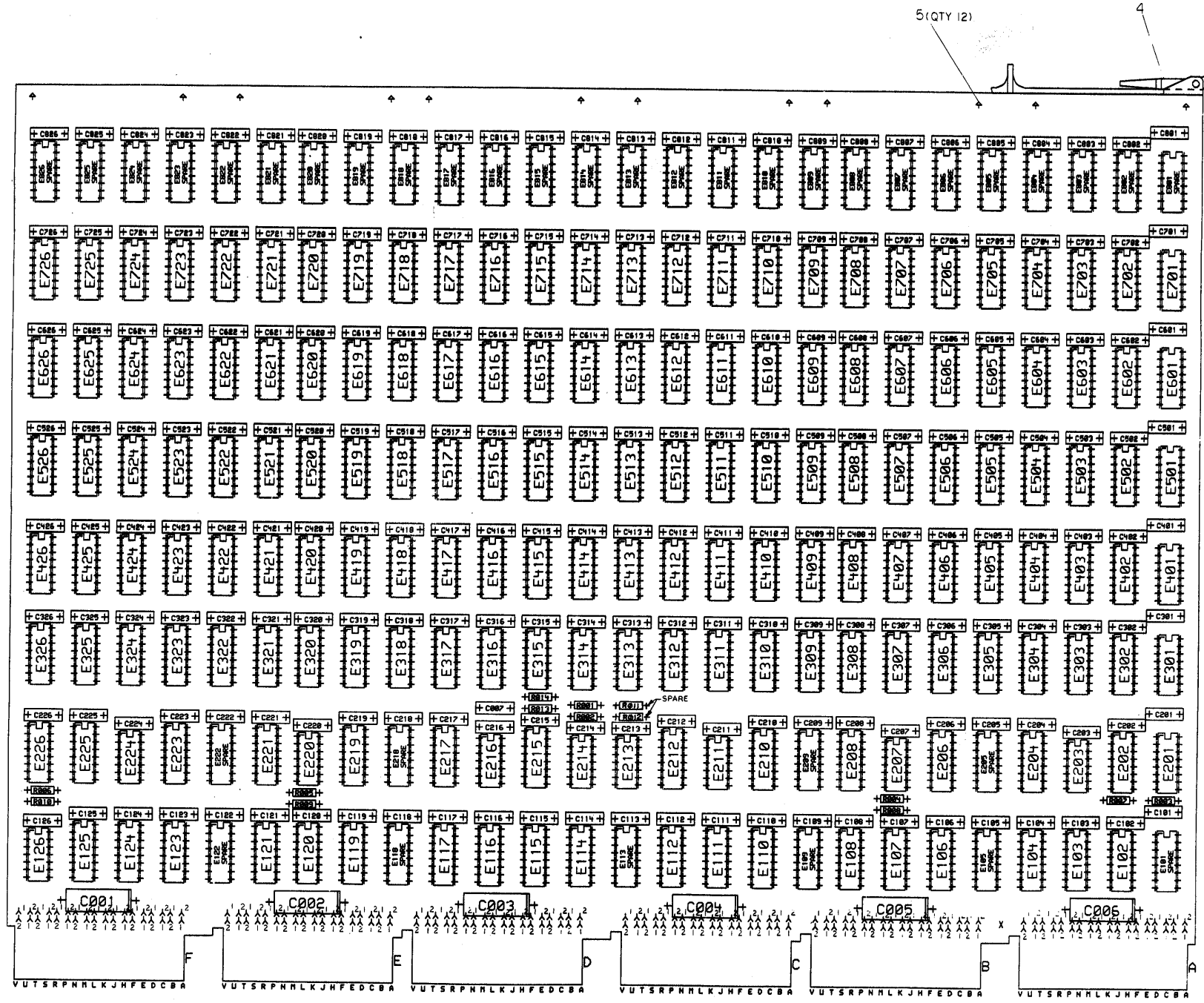


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USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE	CODE	NUMBER	REV.
KSI∅	E. Wilson	8 MAR 78	KSI∅ CONTROL RAM	B	DD	M8623-∅	A
	CHK'D R. W. Caunter	8 MAR 78					
	ENG. Donald Lewine	29-MAR-78					
	PROD. W. Bishop	30 MAR 78	SHEET 1 OF 1				

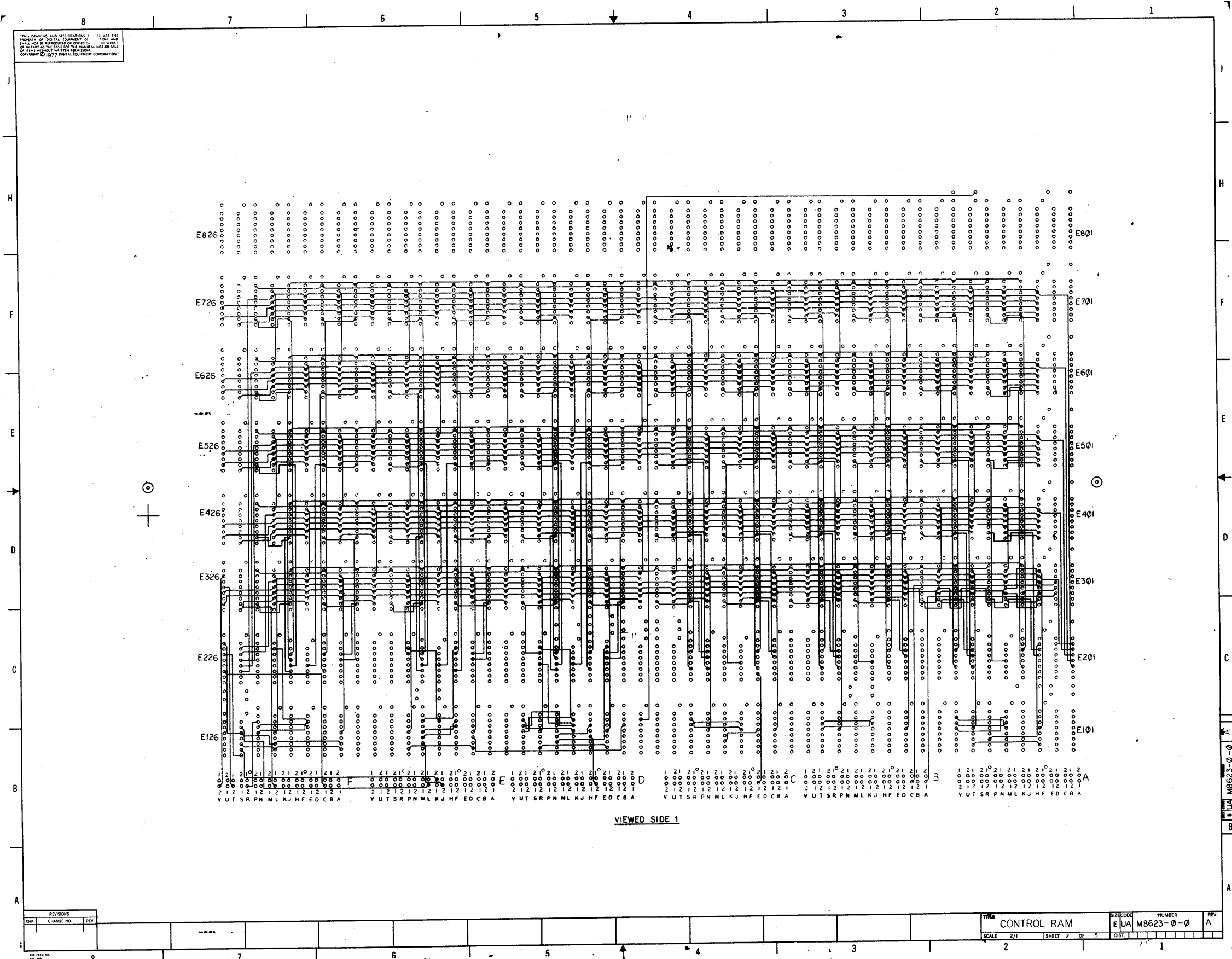


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	DATE: 10/27/72	DATE: 10/27/72	TITLE: CONTROL RAM UNIT ASSEMBLY
	DESIGNED BY: [Name]	DESIGNED BY: [Name]	REV: A
FIRST USED ON: OPTION MODEL 1	REV: 1	REV: 1	REV: 1

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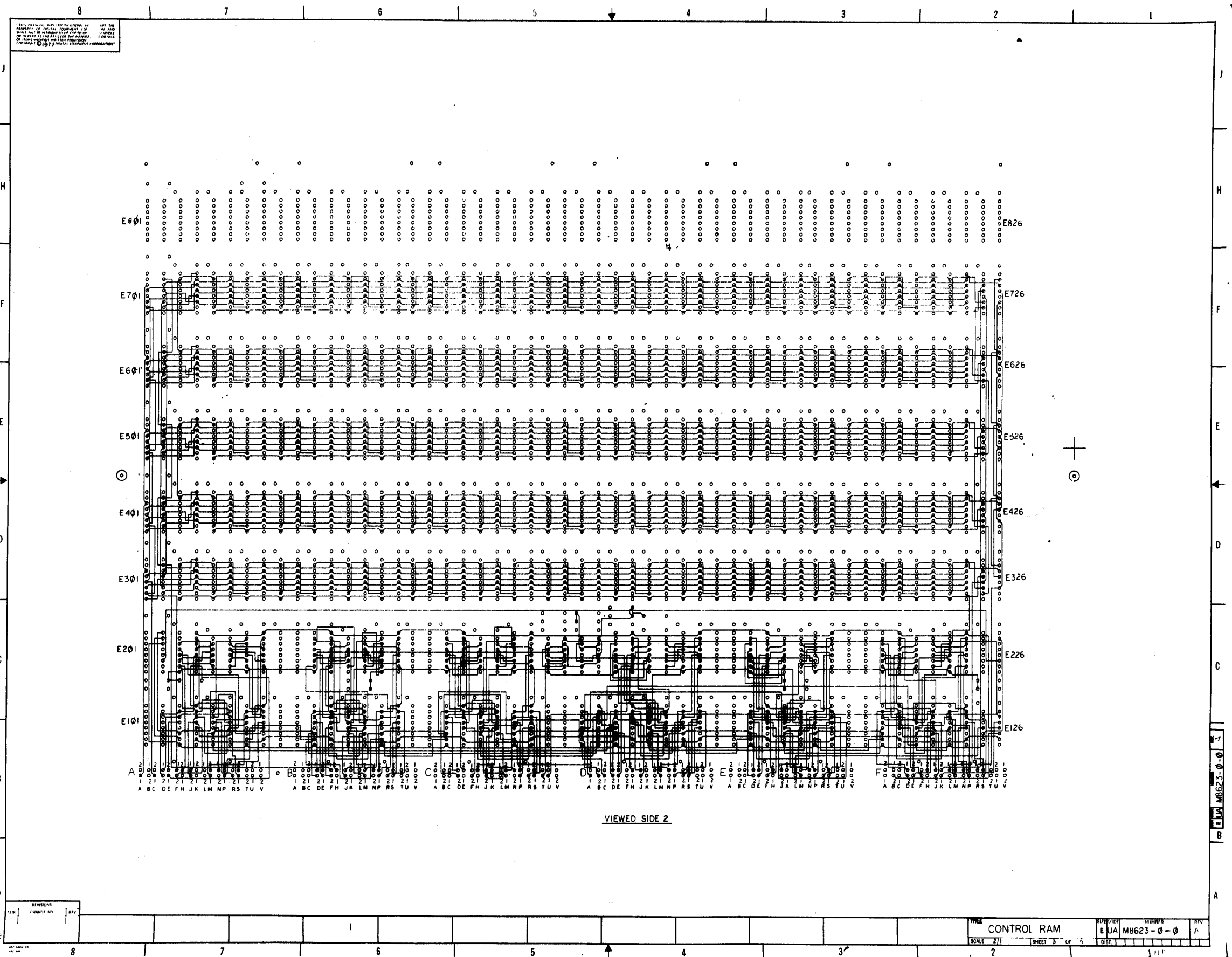
VIEWED SIDE 1

REVISIONS	
CHK	CHANGE NO.

TITLE		EUA		NUMBER		REV.	
CONTROL RAM		M8623-0-0		A			
SCALE	SHEET	OF	DIST.				
2/1	2	5					

EUA M8623-0-0 A

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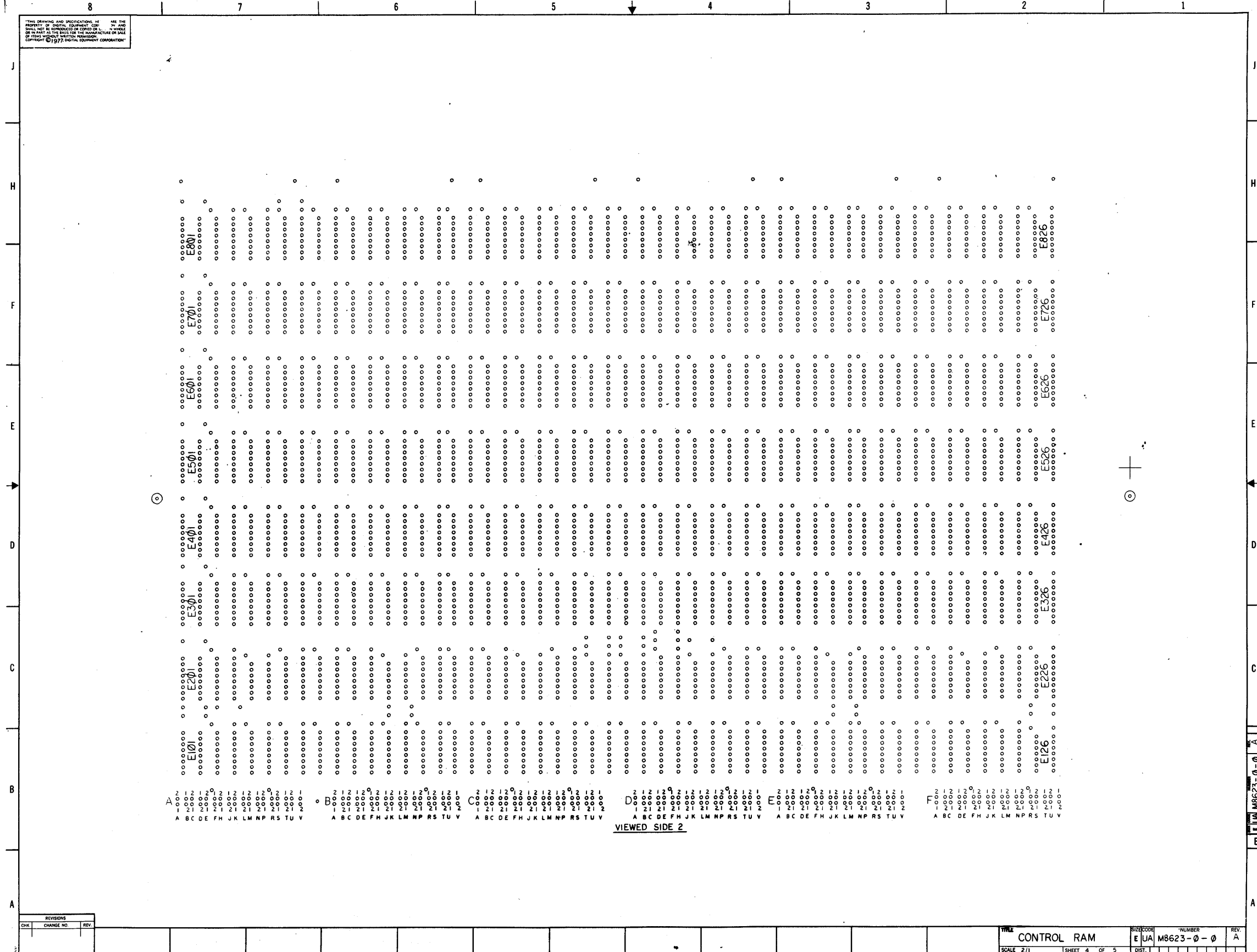
VIEWED SIDE 2

REV	DESCRIPTION	DATE
1	ISSUED	11/73

CONTROL RAM  
 SCALE 2/1 SHEET 3 OF 3  
 EJA M8623-0-0

EJA M8623-0-0

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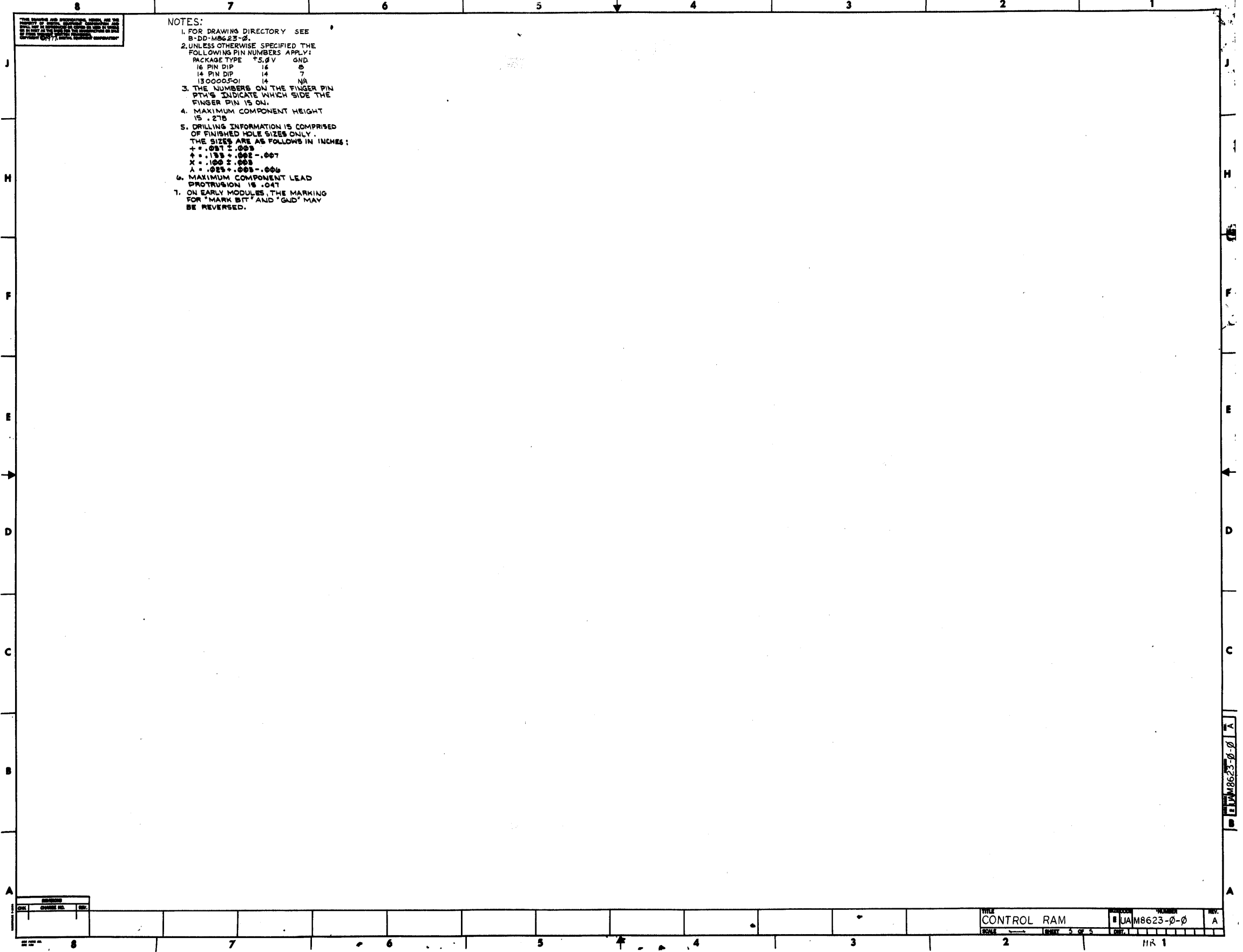
REVISIONS		
CHK	CHANGE NO	REV.

TITLE		EQUIPMENT NUMBER		REV.	
CONTROL RAM		E LIA M8623-0-0		A	
SCALE 2/1		SHEET 4 OF 5		MR 1	

E LIA M8623-0-0 A

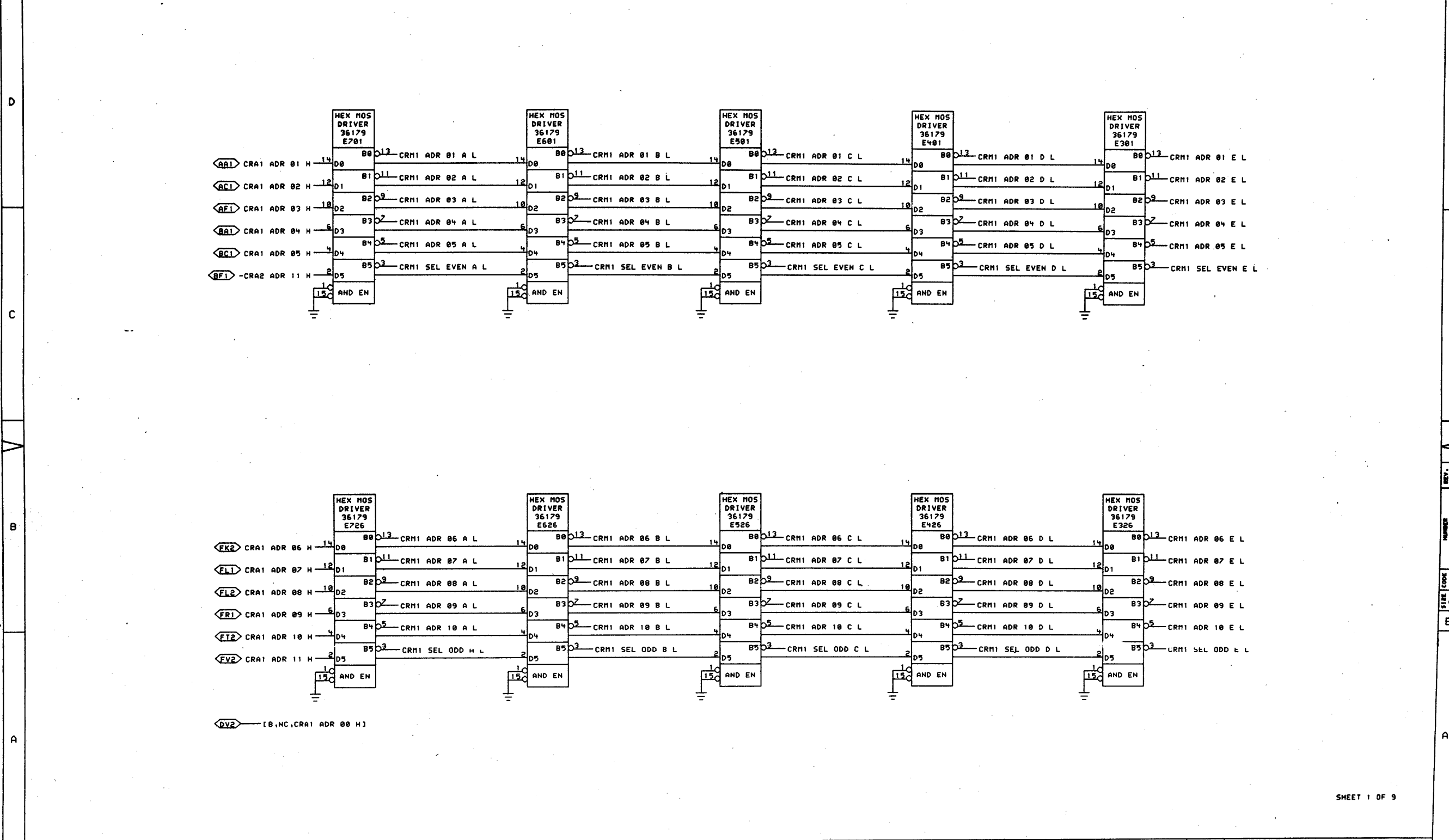
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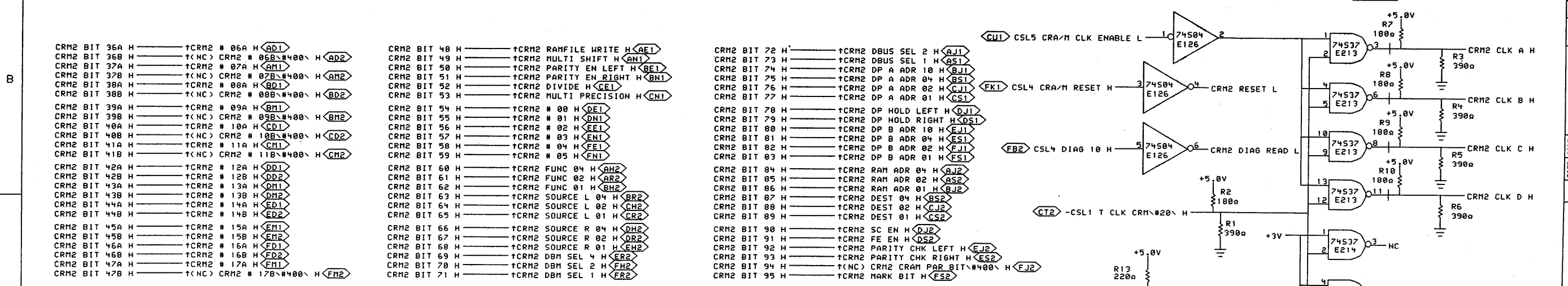
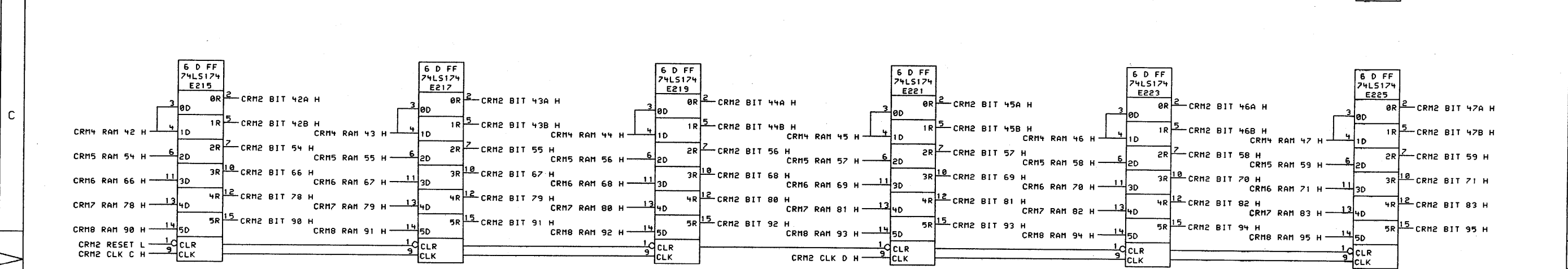
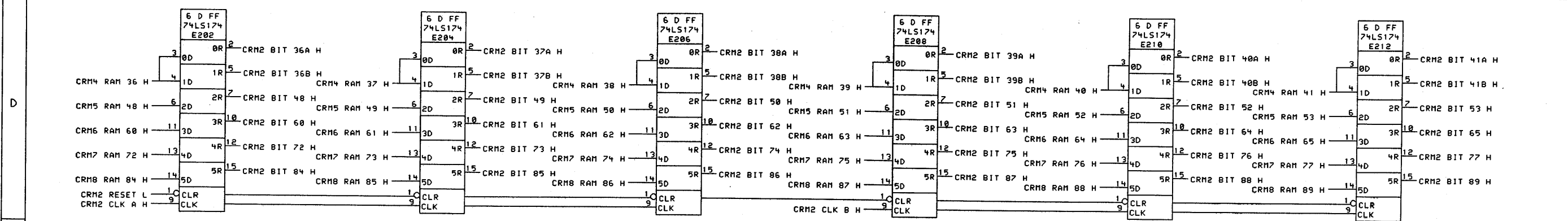
- NOTES:
- FOR DRAWING DIRECTORY SEE B-DD-148623-01.
  - UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:  
 PACKAGE TYPE    5,0V    GND  
 16 PIN DIP       16       8  
 14 PIN DIP       14       7  
 130005-01       14       NA
  - THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON.
  - MAXIMUM COMPONENT HEIGHT IS .275
  - DRILLING INFORMATION IS COMPRISED OF FINISHED HOLE SIZES ONLY. THE SIZES ARE AS FOLLOWS IN INCHES:  
 + .021 ± .003  
 + .133 ± .002 - .007  
 X .100 ± .003  
 A .025 ± .003 - .006
  - MAXIMUM COMPONENT LEAD PROTRUSION IS .041
  - ON EARLY MODULES THE MARKING FOR "MARK BIT" AND "GND" MAY BE REVERSED.



REV.	DESCRIPTION	DATE

TITLE		NUMBER		REV.
CONTROL RAM		UAM8623-0-0		A
SCALE	EMPHY	3 OF 3	DATE	





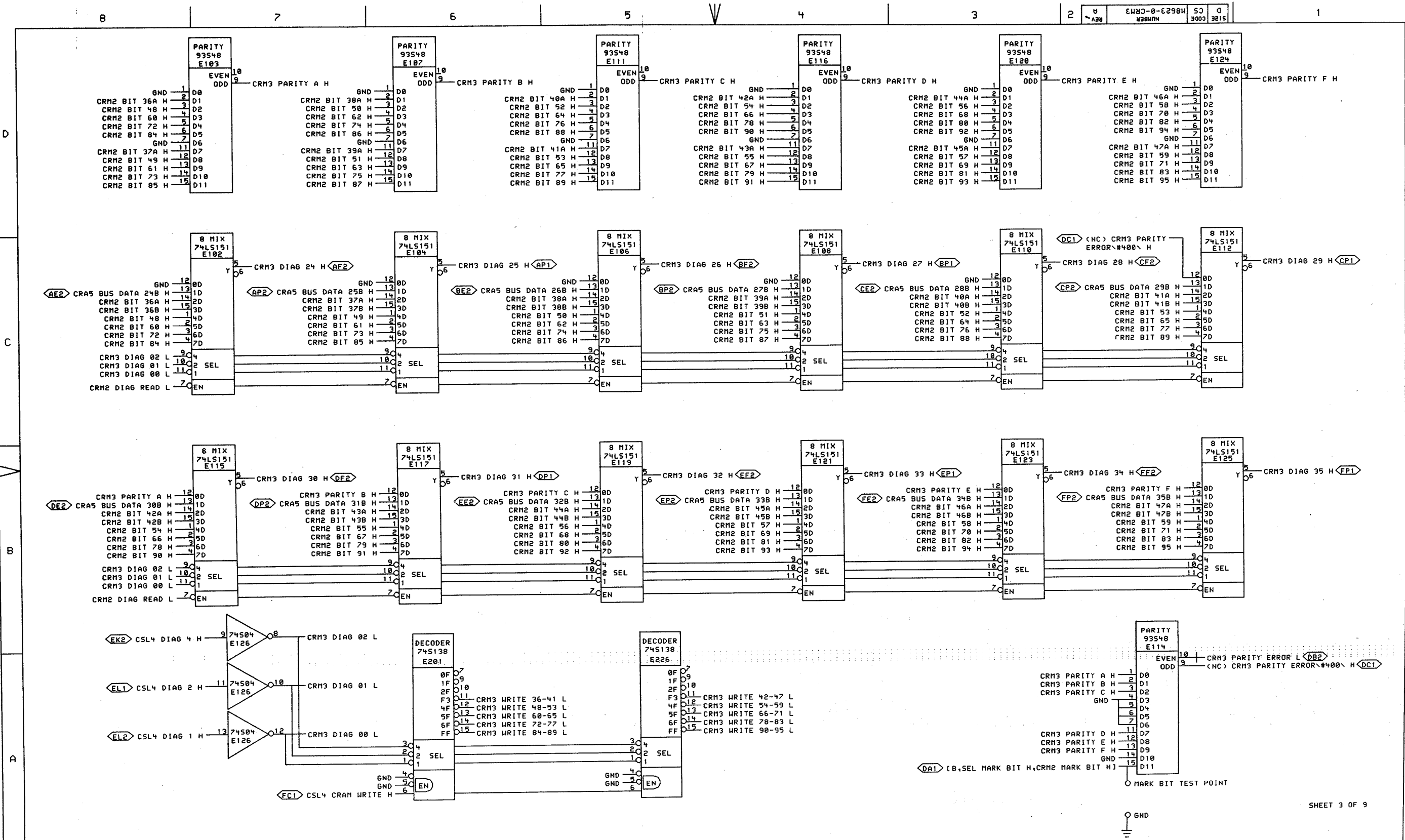
CRM2 BIT	CRM2 #	FUNCTION
CRM2 BIT 36A H	06A H	AD1
CRM2 BIT 36B H	06B #400 H	AD2
CRM2 BIT 37A H	07A H	AM1
CRM2 BIT 37B H	07B #400 H	AM2
CRM2 BIT 38A H	08A H	BD1
CRM2 BIT 38B H	08B #400 H	BD2
CRM2 BIT 39A H	09A H	BM1
CRM2 BIT 39B H	09B #400 H	BM2
CRM2 BIT 40A H	10A H	CD1
CRM2 BIT 40B H	10B #400 H	CD2
CRM2 BIT 41A H	11A H	CH1
CRM2 BIT 41B H	11B #400 H	CH2
CRM2 BIT 42A H	12A H	DD1
CRM2 BIT 42B H	12B H	DD2
CRM2 BIT 43A H	13A H	DM1
CRM2 BIT 43B H	13B H	DM2
CRM2 BIT 44A H	14A H	ED1
CRM2 BIT 44B H	14B H	ED2
CRM2 BIT 45A H	15A H	EM1
CRM2 BIT 45B H	15B H	EM2
CRM2 BIT 46A H	16A H	FM1
CRM2 BIT 46B H	16B H	FM2
CRM2 BIT 47A H	17A H	FM1
CRM2 BIT 47B H	17B #400 H	FM2
CRM2 BIT 48 H		TCRM2 RAMFILE WRITE H AE1
CRM2 BIT 49 H		TCRM2 MULTI SHIFT H AN1
CRM2 BIT 50 H		TCRM2 PARITY EN LEFT H BE1
CRM2 BIT 51 H		TCRM2 PARITY EN RIGHT H BN1
CRM2 BIT 52 H		TCRM2 DIVIDE H CE1
CRM2 BIT 53 H		TCRM2 MULTI PRECISION H CN1
CRM2 BIT 54 H		TCRM2 # 00 H DE1
CRM2 BIT 55 H		TCRM2 # 01 H DN1
CRM2 BIT 56 H		TCRM2 # 02 H EE1
CRM2 BIT 57 H		TCRM2 # 03 H EN1
CRM2 BIT 58 H		TCRM2 # 04 H FE1
CRM2 BIT 59 H		TCRM2 # 05 H FN1
CRM2 BIT 60 H		TCRM2 FUNC 04 H AH2
CRM2 BIT 61 H		TCRM2 FUNC 02 H AR2
CRM2 BIT 62 H		TCRM2 FUNC 01 H BH2
CRM2 BIT 63 H		TCRM2 SOURCE R 04 H BR2
CRM2 BIT 64 H		TCRM2 SOURCE L 02 H CR2
CRM2 BIT 65 H		TCRM2 SOURCE L 01 H CS2
CRM2 BIT 66 H		TCRM2 SOURCE R 04 H DH2
CRM2 BIT 67 H		TCRM2 SOURCE R 02 H DR2
CRM2 BIT 68 H		TCRM2 SOURCE R 01 H EH2
CRM2 BIT 69 H		TCRM2 DBM SEL 4 H ER2
CRM2 BIT 70 H		TCRM2 DBM SEL 2 H FR2
CRM2 BIT 71 H		TCRM2 DBM SEL 1 H FR2
CRM2 BIT 72 H		TCRM2 DBUS SEL 2 H AJ1
CRM2 BIT 73 H		TCRM2 DBUS SEL 1 H AS1
CRM2 BIT 74 H		TCRM2 DP A ADR 10 H BJ1
CRM2 BIT 75 H		TCRM2 DP A ADR 04 H BS1
CRM2 BIT 76 H		TCRM2 DP A ADR 02 H CS1
CRM2 BIT 77 H		TCRM2 DP A ADR 01 H DS1
CRM2 BIT 78 H		TCRM2 DP HOLD LEFT H DJ1
CRM2 BIT 79 H		TCRM2 DP HOLD RIGHT H DS1
CRM2 BIT 80 H		TCRM2 DP B ADR 10 H EJ1
CRM2 BIT 81 H		TCRM2 DP B ADR 04 H ES1
CRM2 BIT 82 H		TCRM2 DP B ADR 02 H FJ1
CRM2 BIT 83 H		TCRM2 DP B ADR 01 H FS1
CRM2 BIT 84 H		TCRM2 RAM ADR 04 H AJ2
CRM2 BIT 85 H		TCRM2 RAM ADR 02 H AS2
CRM2 BIT 86 H		TCRM2 RAM ADR 01 H BS2
CRM2 BIT 87 H		TCRM2 DEST 04 H BS2
CRM2 BIT 88 H		TCRM2 DEST 02 H CS2
CRM2 BIT 89 H		TCRM2 DEST 01 H DS2
CRM2 BIT 90 H		TCRM2 SC EN H DJ2
CRM2 BIT 91 H		TCRM2 FE EN H DS2
CRM2 BIT 92 H		TCRM2 PARITY CHK LEFT H EJ2
CRM2 BIT 93 H		TCRM2 PARITY CHK RIGHT H ES2
CRM2 BIT 94 H		TCRM2 CRAM PAR BIT #400 H FJ2
CRM2 BIT 95 H		TCRM2 MARK BIT H ES2

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REVISIONS		
CHK	CHANGE NO.	REV

digital  
 DATE 28-MAR-78  
 BOARD LOCATION: 1AF11  
 SHEET 1 OF 1  
 FIRST USED ON OPTION/MODEL: KS10

DATE 28-MAR-78	ENG. Small Sewme	DATE 21-MAR-78	TITLE: CONTROL RAM OUTPUT REGISTER
DATE 3/21/78	DATE 3/21/78	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8623-0-CRM2 A
NEXT HIGHER ASSEMBLY: B-DD-M8623-0			

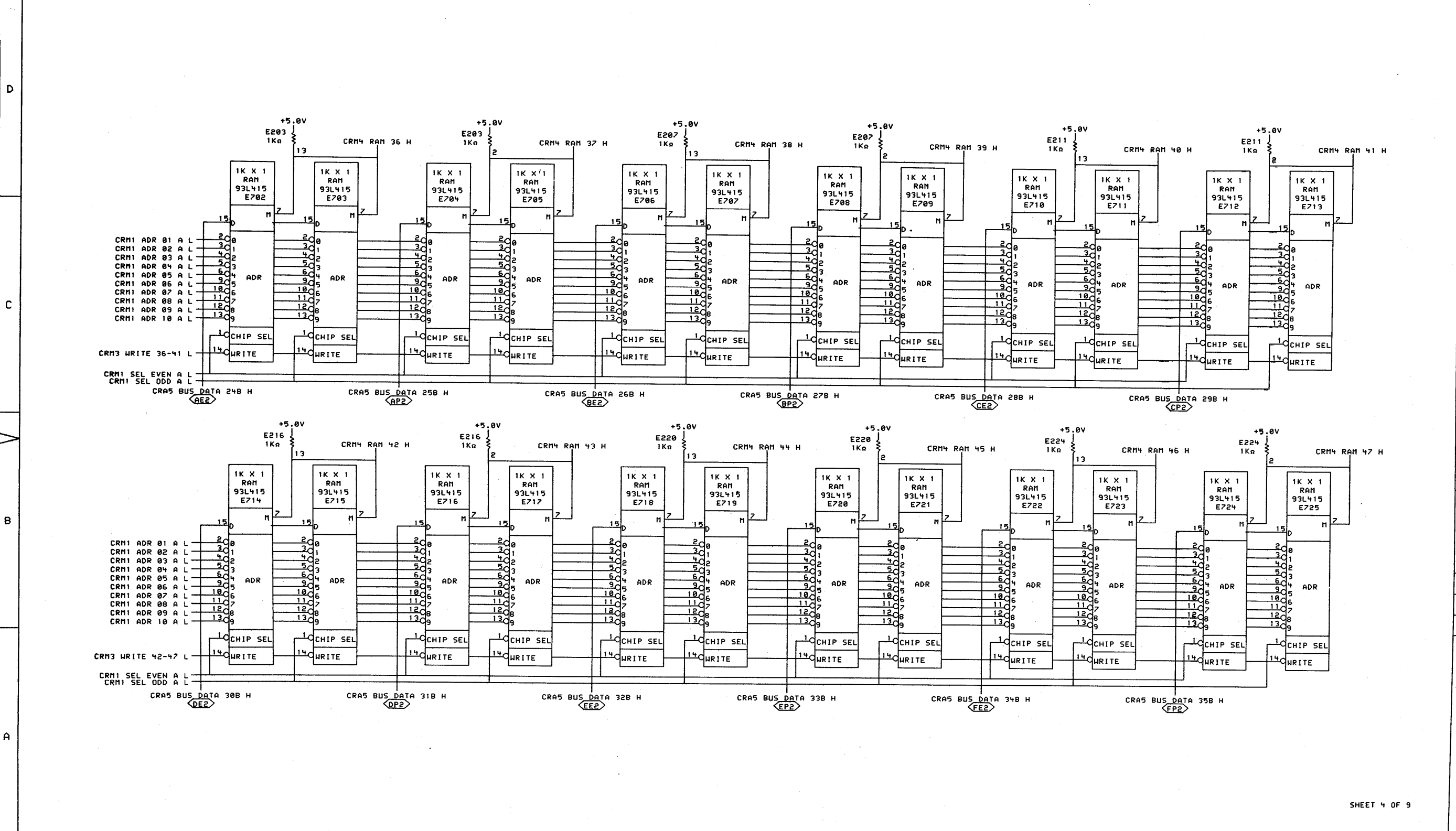


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REVISIONS		
CHK	CHANGE NO.	REV

	DRN: J. Joonky	DATE: 13-MAR-78	ENG: R. S. ...	DATE: 13-MAR-78	REV: A
	CHK: W. Stephenson	DATE: 3/13/78	BOARD LOCATION: 1A11	SHEET: 1 OF 1	TITLE: CONTROL RAM PAR & DIAG
CRM3.DRW(4,654)	113-MAR-78 12:17	NEXT HIGHER ASSEMBLY: B-DD-M8623-0	SIZE: D	CODE: CS	NUMBER: M8623-0-CRM3
FIRST USED ON OPTION/MODEL: KS10					REV: A



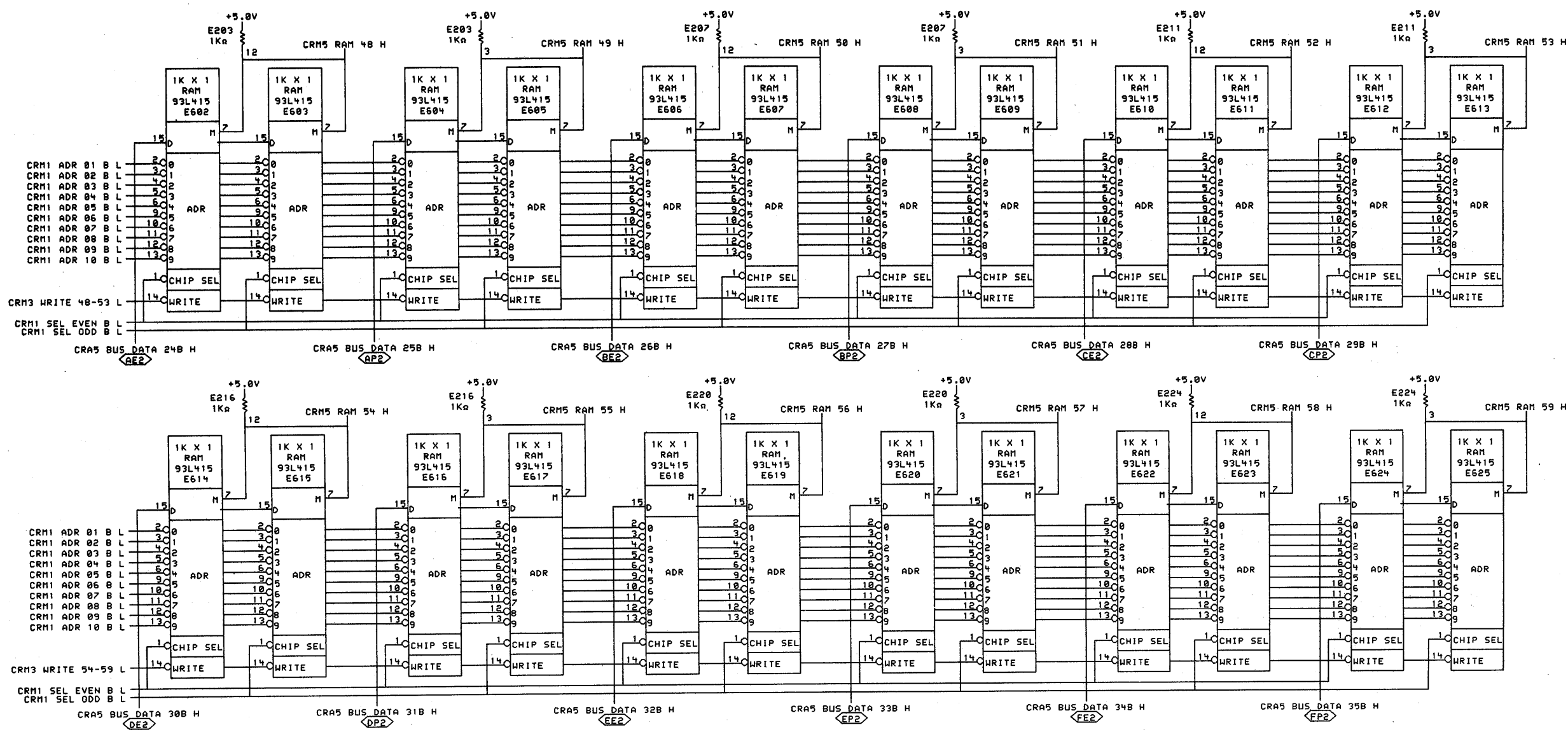


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REVISIONS		
CHK	CHANGE NO.	REV.

DATE	ENG.	DATE	TITLE:
13-MAR-78	Small	13-MAR-78	CONTROL RAM
DATE	BOARD LOCATION:	SHEET	RAMS 36-47
3/13/78	IAF11	OF 1	
CRM4.DRM4.654	118-MAR-78	12:19	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL:	K510	B-DD-M8623-0	

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM4	A

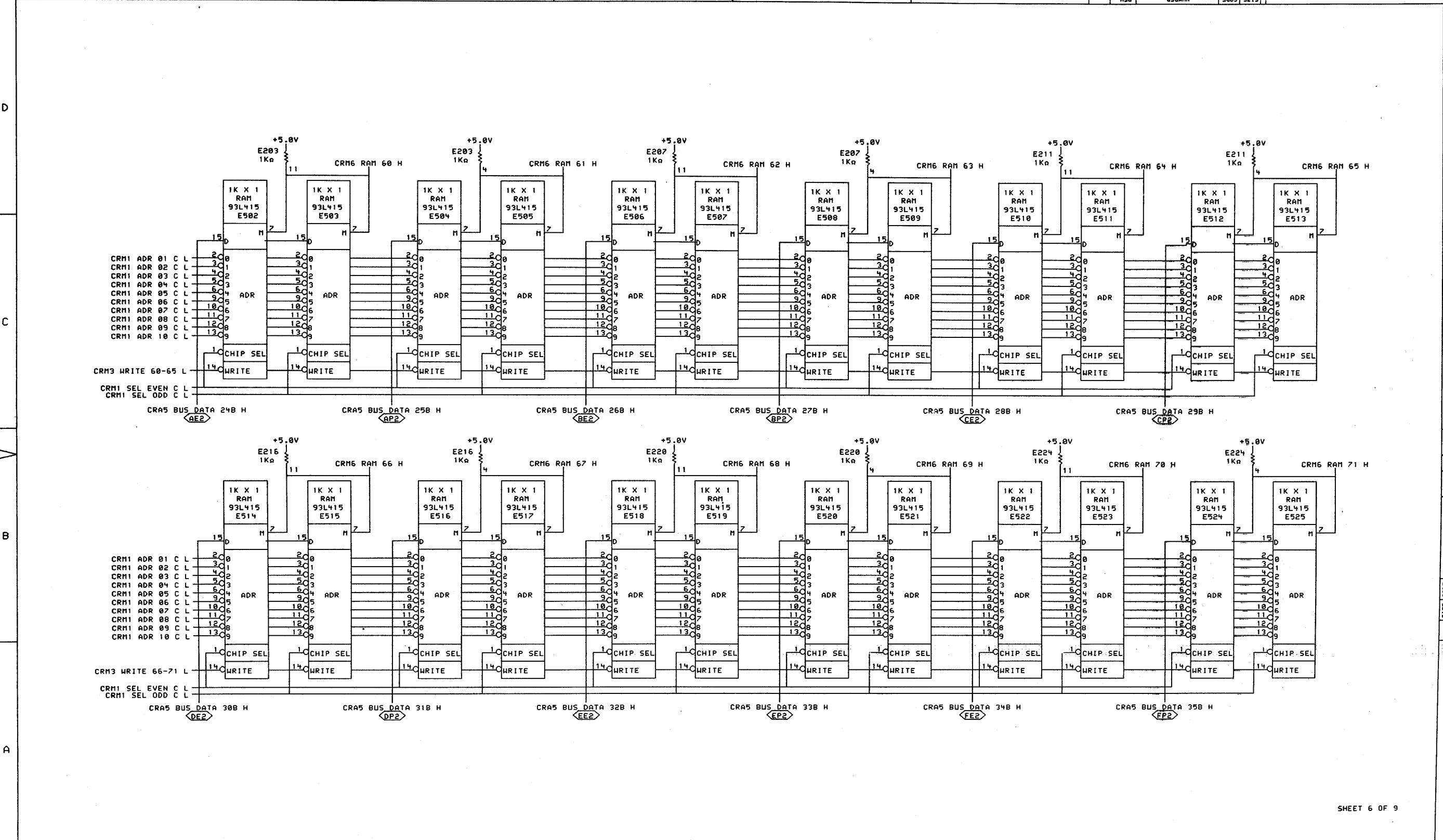


SHEET 5 OF 9

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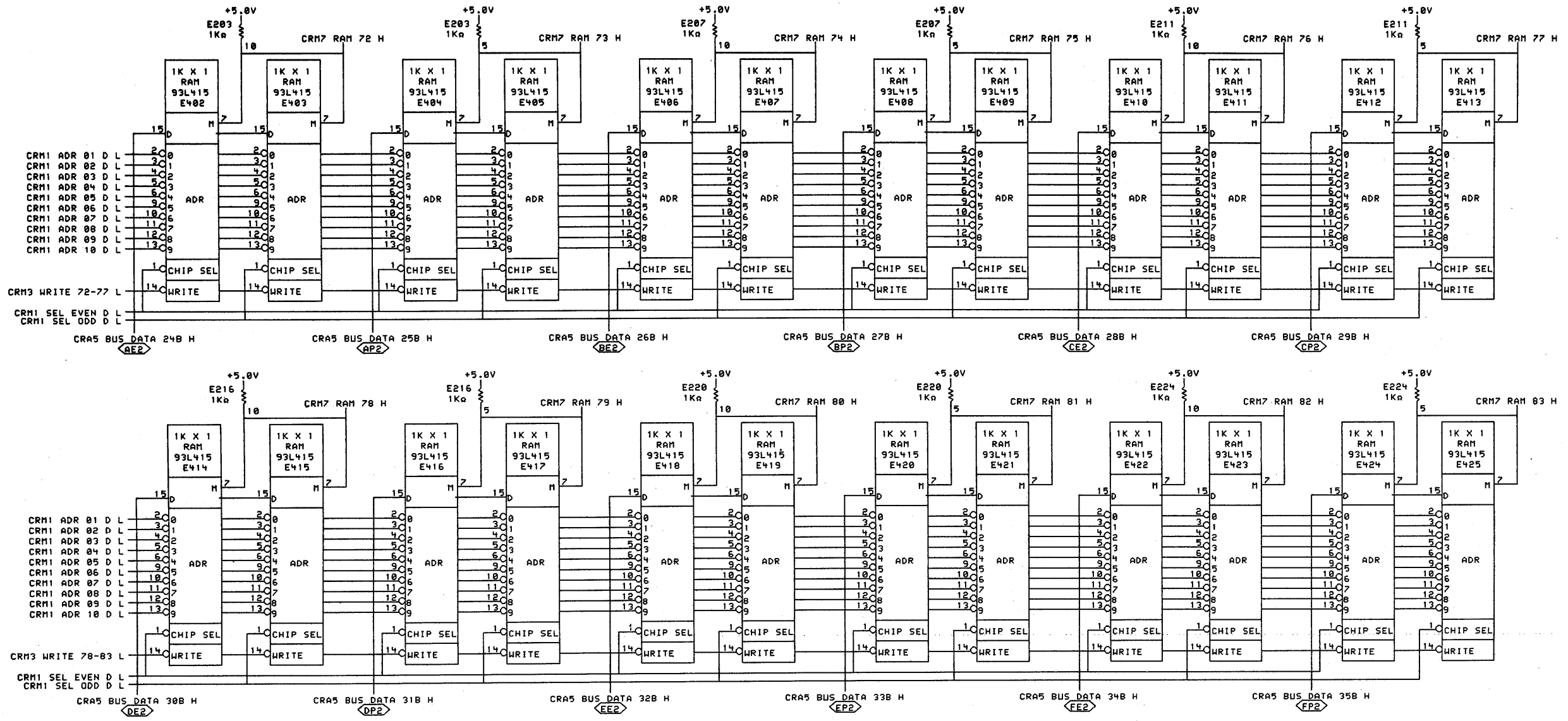
REVISIONS		
CHK	CHANGE NO.	REV.

	DRN. <i>J. J. J.</i>	DATE 13-MAR-78	ENG. <i>J. J. J.</i>	DATE 03-MAR-78	TITLE: CONTROL RAM RAMS 48-59
	CHK. <i>W. J. J.</i>	DATE 3/13/78	CHK. <i>W. J. J.</i>	DATE 3/13/78	BOARD LOCATION: 1A111
CRM5.DRW14,6543		13-MAR-78 12:20	NEXT HIGHER ASSEMBLY: B-DD-M8623-0		SIZE CODE NUMBER REV. D CS M8623-0-CRM5 A
FIRST USED ON OPTION-MODEL: K510					1



SHEET 6 OF 9

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CHK	CHANGE NO.	REV									



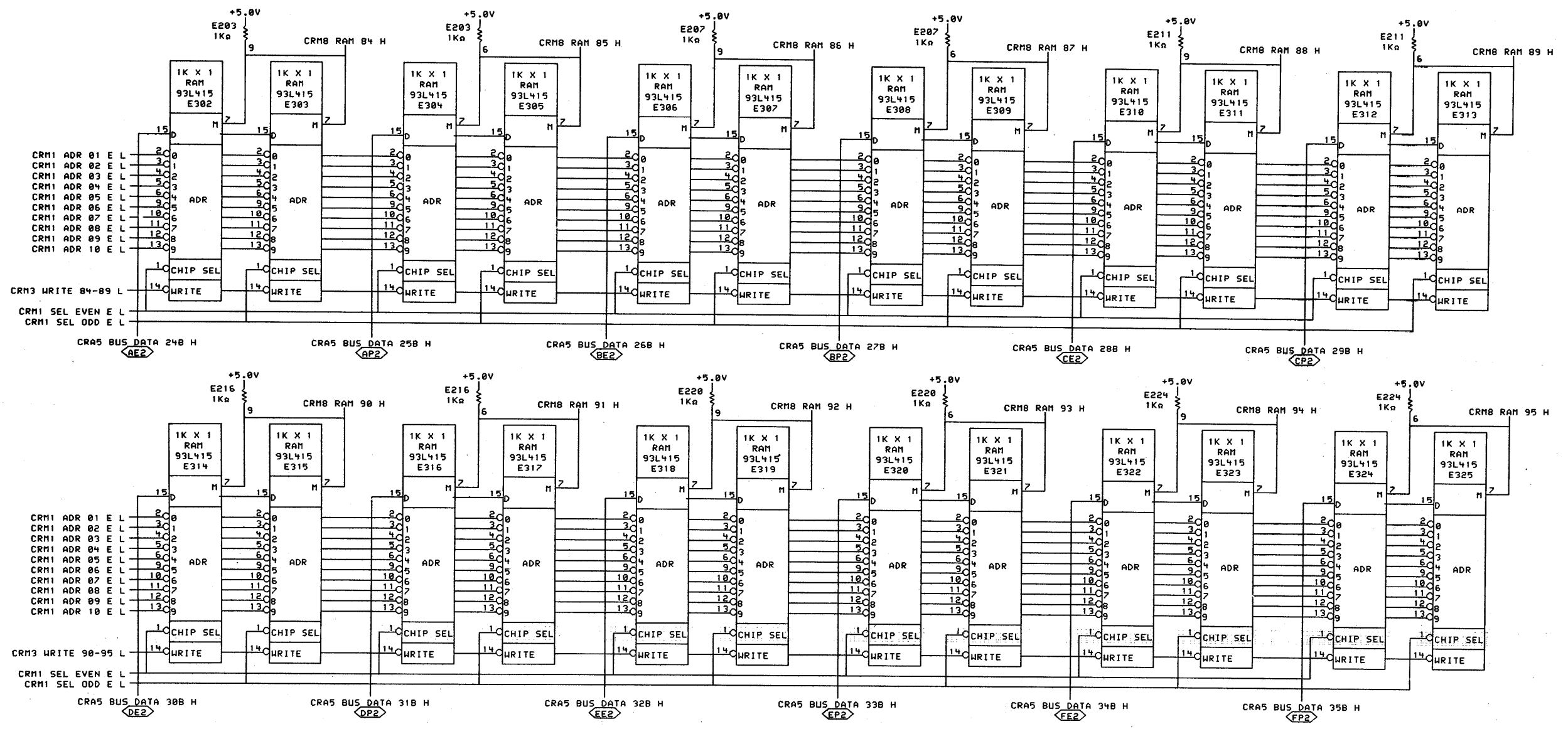
SHEET 7 OF 9

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REVISIONS		
CHK	CHANGE NO.	REV.

	DRW. J. J. J.	DATE 13-MAR-78	ENG. J. J. J.	DATE 21-MAR-78	TITLE: CONTROL RAM RAMS 72-83
	CHK. J. J. J.	DATE 13-MAR-78	CHK. J. J. J.	DATE 21-MAR-78	BOARD LOCATION: 1AF11
CRM7.DRW(4,654)		13-MAR-78 12:23	SHEET 1 OF 1		SIZE CODE D CS
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8623-0		NUMBER M8623-0-CRM7	REV. A

REV.	NUMBER	SIZE	CODE	D
2	M8623-0-CRM8	D	CS	



REV.	NUMBER	SIZE	CODE
A	M8623-0-CRM8	D	CS

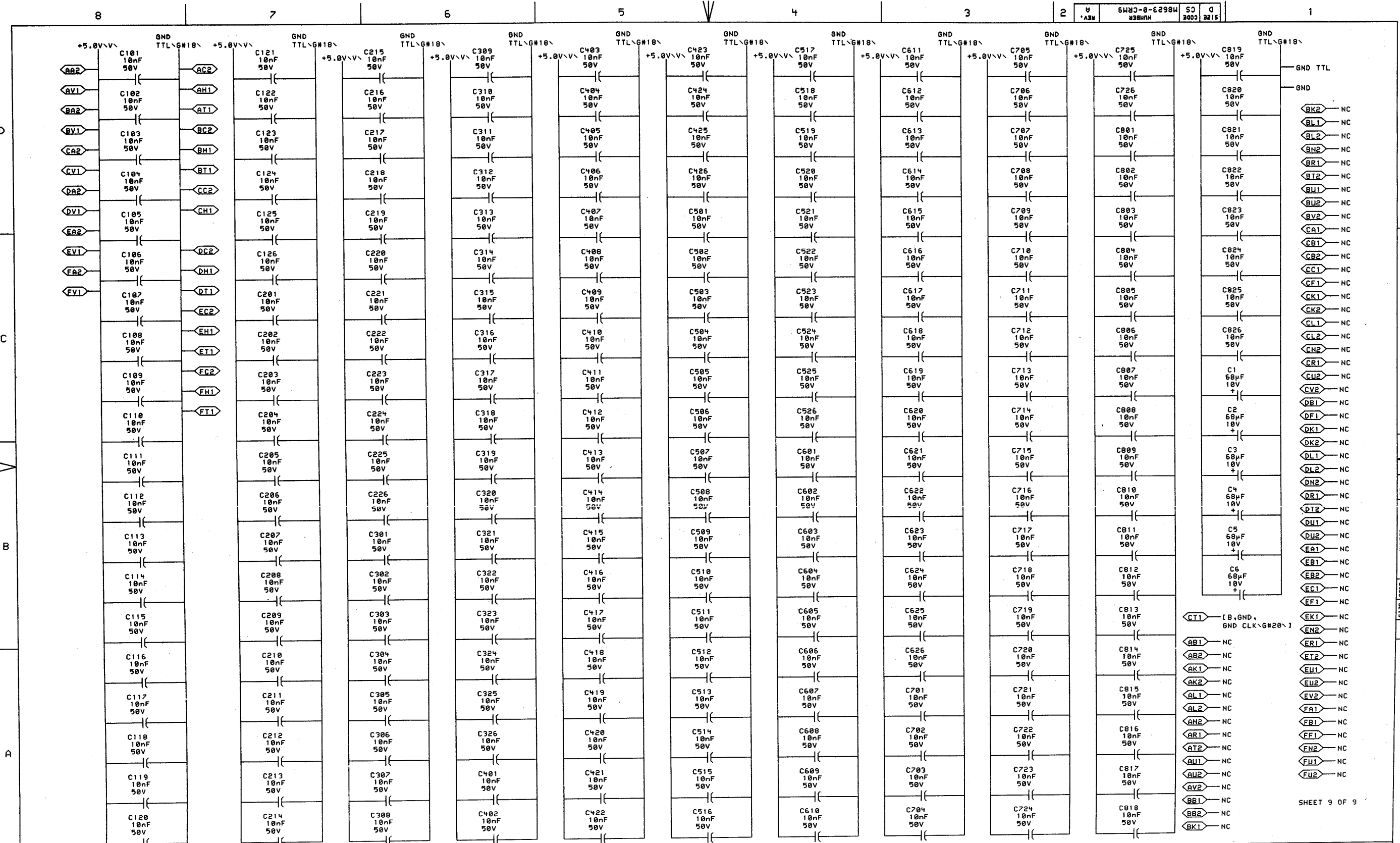
SHEET 8 OF 9

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REVISIONS		
CHK	CHANGE NO.	REV.

**digital** DRN. *J. J. J.* DATE 13-MAR-78 ENG. *Donald S. ...* DATE 29-MAR-78  
 CHK. *W. ...* DATE 3/27/78 BOARD LOCATION: IAF11  
 CRM8.DRW(4.654) 13-MAR-78 12:24 NEXT HIGHER ASSEMBLY: SHEET 1 OF 1  
 FIRST USED ON OPTION/MODEL: KS10 B-DD-M8623-0


TITLE: CONTROL RAM RAMS 84-95			
SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM8	A



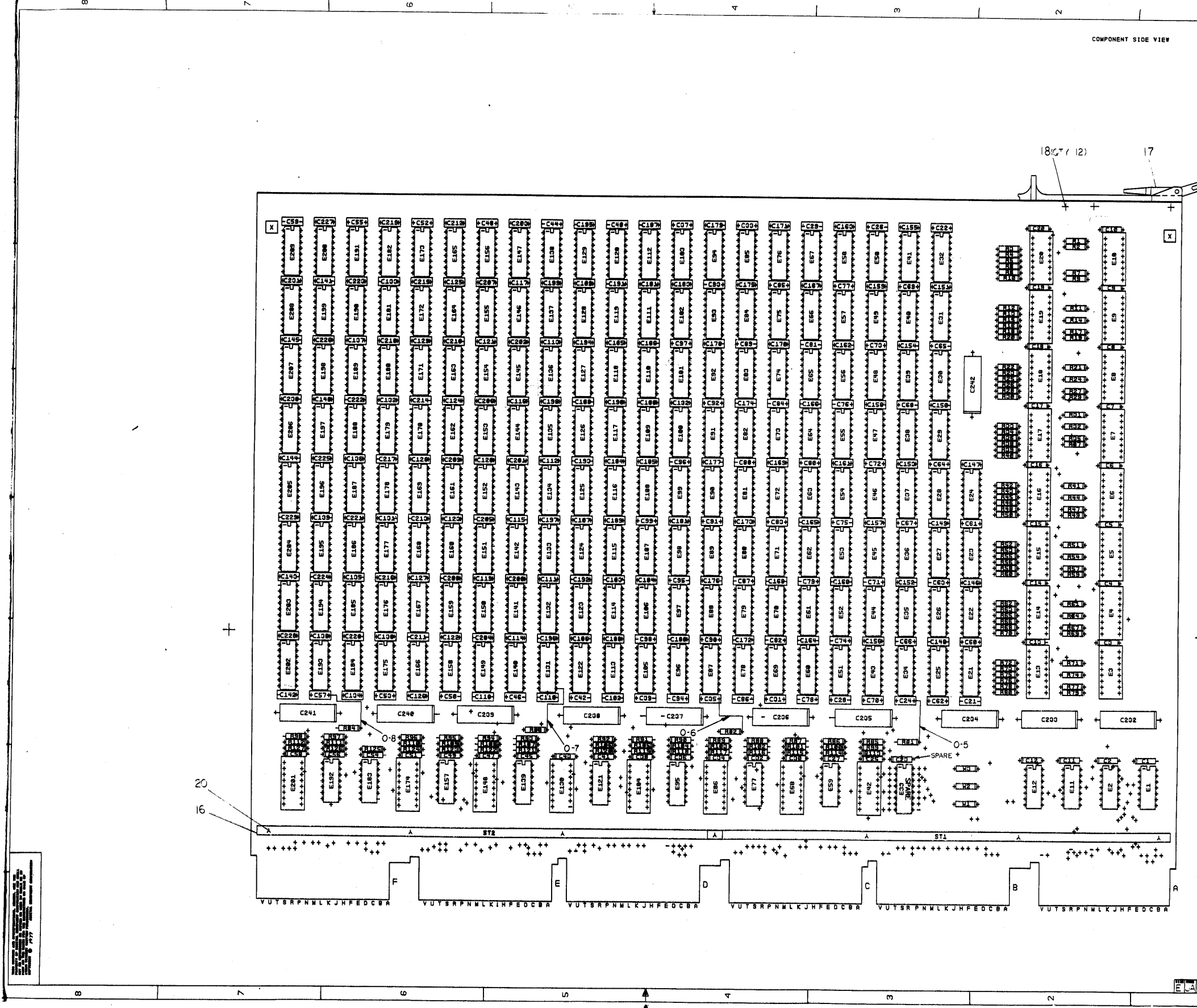
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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRW. <i>J. J. J.</i>	DATE 13-MAR-78	ENG. <i>Edward S. ...</i>	DATE 21-MAR-78	TITLE: CONTROL RAM POWER, GND, CAPS
	CHK'D <i>W. J. J.</i>	DATE 13-MAR-78 12:23	BOARD LOCATION: 1A11	SHEET 1 OF 1	REV. A
CRMS.DRW. 4, 654	13-MAR-78 12:23	NEXT HIGHER ASSEMBLY:	SIZE CODE D CS	NUMBER M8623-0-CRM9	REV. A
FIRST USED ON OPTION/MODEL: KS10	B-DD-M8623-0	SHEET 9 OF 9			

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS	
			MODULE REVISION	A	
E-UA-M8629-0-0	5		MOS MEMORY ARRAY	A	
B-PL-M8629-0-0	2		MOS MEMORY ARRAY	A	
D-CS-M8629-0-MMA1	1		MOS MEMORY ARRAY, ARRAY DRIVERS	-	
D-CS-M8629-0-MMA2	1		MOS MEMORY ARRAY, ADDRESS BUFFERS	-	
D-CS-M8629-0-MMA3	1		MOS MEMORY ARRAY, BITS 41-23A	-	
D-CS-M8629-0-MMA4	1		MOS MEMORY ARRAY, BITS 41-23B	-	
D-CS-M8629-0-MMA5	1		MOS MEMORY ARRAY, BITS 21-01A	-	
D-CS-M8629-0-MMA6	1		MOS MEMORY ARRAY, BITS 21-01B	-	
D-CS-M8629-0-MMA7	1		MOS MEMORY ARRAY, BITS 42-22A	-	
D-CS-M8629-0-MMA8	1		MOS MEMORY ARRAY, BITS 42-22B	-	
D-CS-M8629-0-MMA9	1		MOS MEMORY ARRAY, BITS 20-00A	-	
D-CS-M8629-0-MMAA	1		MOS MEMORY ARRAY, BITS 20-00B	-	
D-CS-M8629-0-MMAB	1		MOS MEMORY ARRAY, POWER GND, CAPS	-	
D-CS-M8629-0-MMAC	1		MOS MEMORY ARRAY, POWER GND, CAPS	-	
D-CS-M8629-0-MMAD	1		MOS MEMORY ARRAY, ARRAY +5V		
E-MD-5013064-0-0	5		DRILL & ETCH DRAWING	A	
	-	5013064	ETCHED CIRCUIT BOARD	B	
M8629-0-L	-		P.C. DESIGN DATA BASE	B	
M8629-0-PL	-		INSERTION P/L DATA BASE	A	
POO-M8629-00			PROCESS SHEETS	REF	
NOTES:				REV. <input checked="" type="checkbox"/>	
				ORIG <input checked="" type="checkbox"/>	
				DATE <input checked="" type="checkbox"/>	
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			KS10	CHK'D <i>R.W. Counter</i> 14 Oct 77	MOS MEMORY ARRAY
				ENG. <i>R. L...</i> 30 Nov 77	SIZE CODE
				PROD. <i>C. J...</i> 30 Nov 77	B DD
					NUMBER
					M8629-0
					REV.
					SHEET 1 OF 1

COMPONENT SIDE VIEW



20  
16

SIGNATURES	DATE	REV.	BY

STUDY REV.  
P.L.C. DESIGN UNIT BRNE REV.

digital	TITLE	REV.
digital	MPS MEMORY ARRAY	

CHANGES	NO	REV

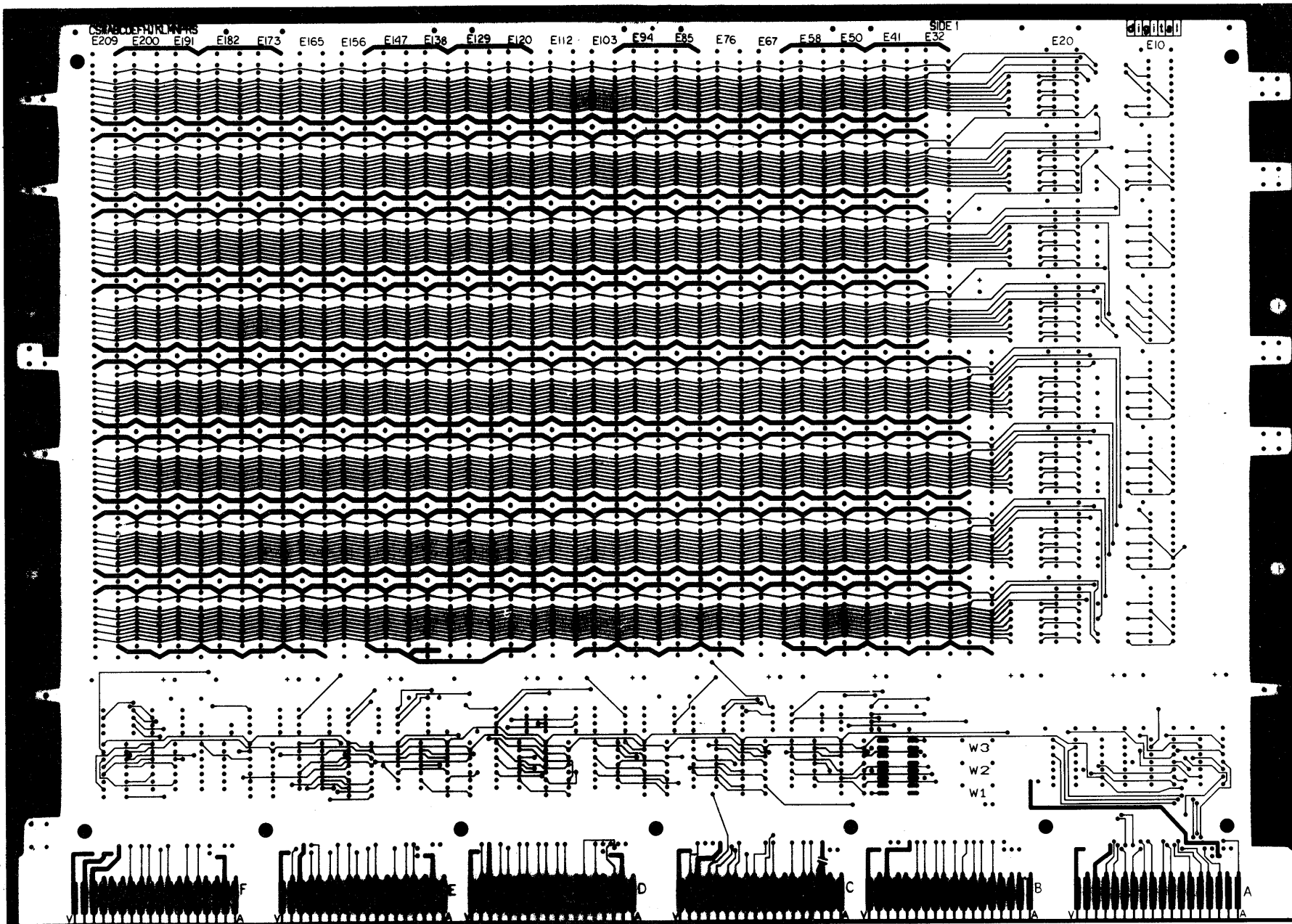
NOTES:  
E LA 13629 - 1 - 0 A



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L1

LAYER 1  
M8629 5013064B



0-1

CHK	CHANGE NO	REV

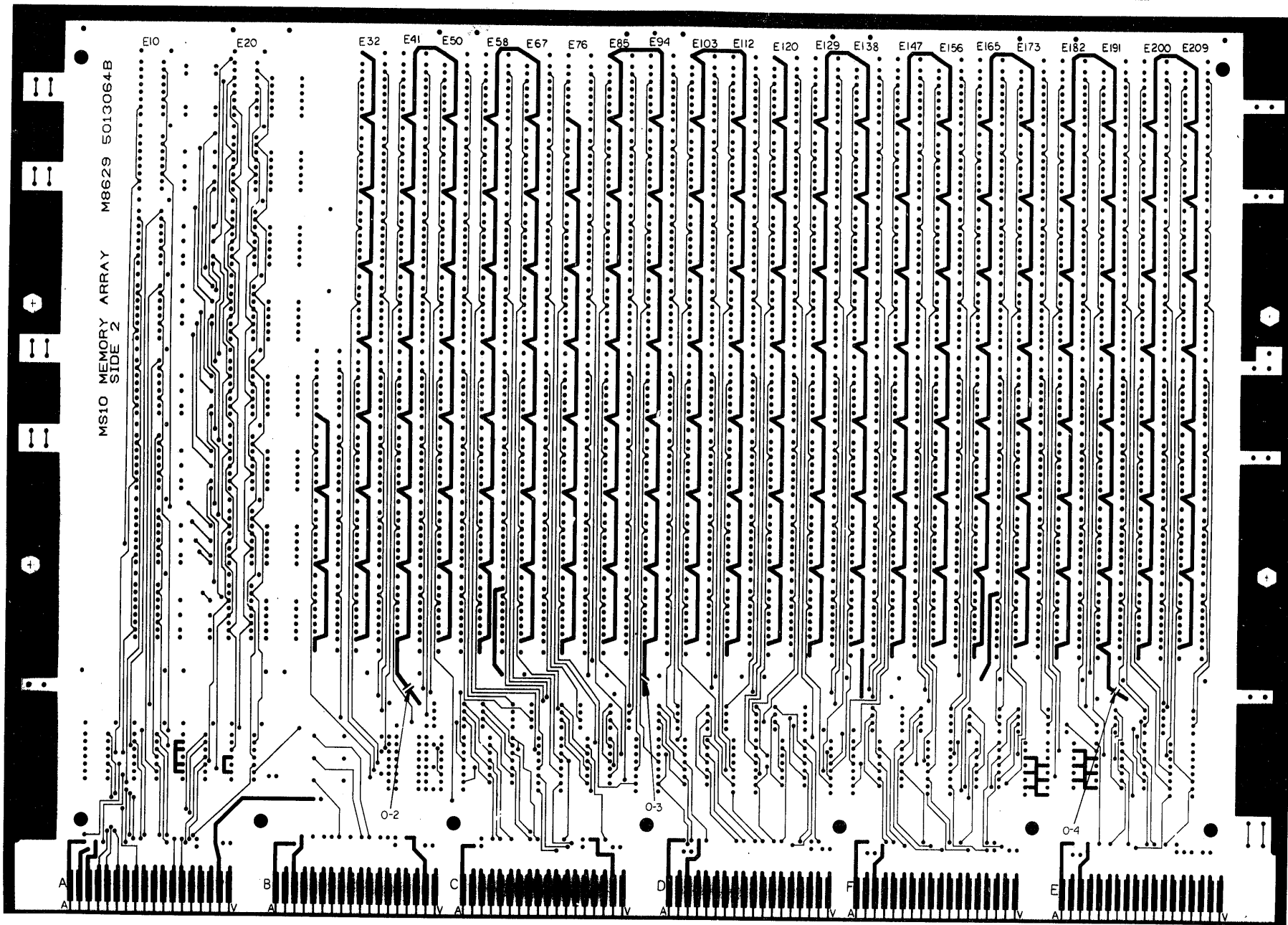
TITLE	SIZE/CD	NUMBER	REV
MOS MEMORY ARRAY	E UA	M8629-0-0	A
SCALE 2/1	SHEET 2 OF 5	DIST.	1

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8 7 6 4 3 2 1

4 834AJ

L4



REV. 1/78  
 DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]

8

7

6

5

4

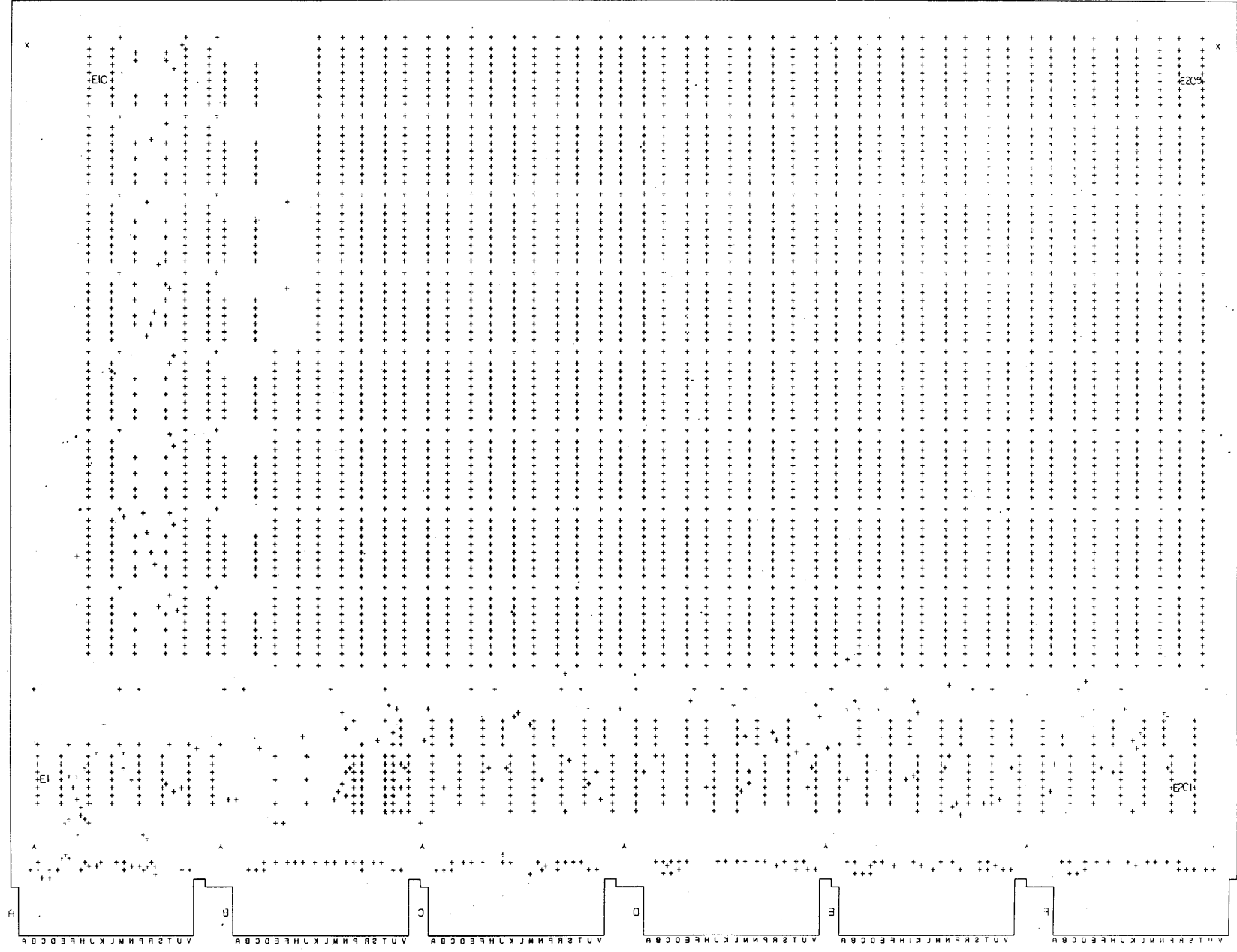
3

2

1

TYPE	MOS MEMORY ARRAY	SIZE/FORM	E JA	NUMBER	M8629-0-0	REV	A
SCALE	2/1	SHEET	3 OF 4	DIST			

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: MOS MEMORY ARRAY  
 SCALE: 2/1  
 SHEET 4 OF 5  
 NUMBER: EJA M629-0-0  
 REV: A

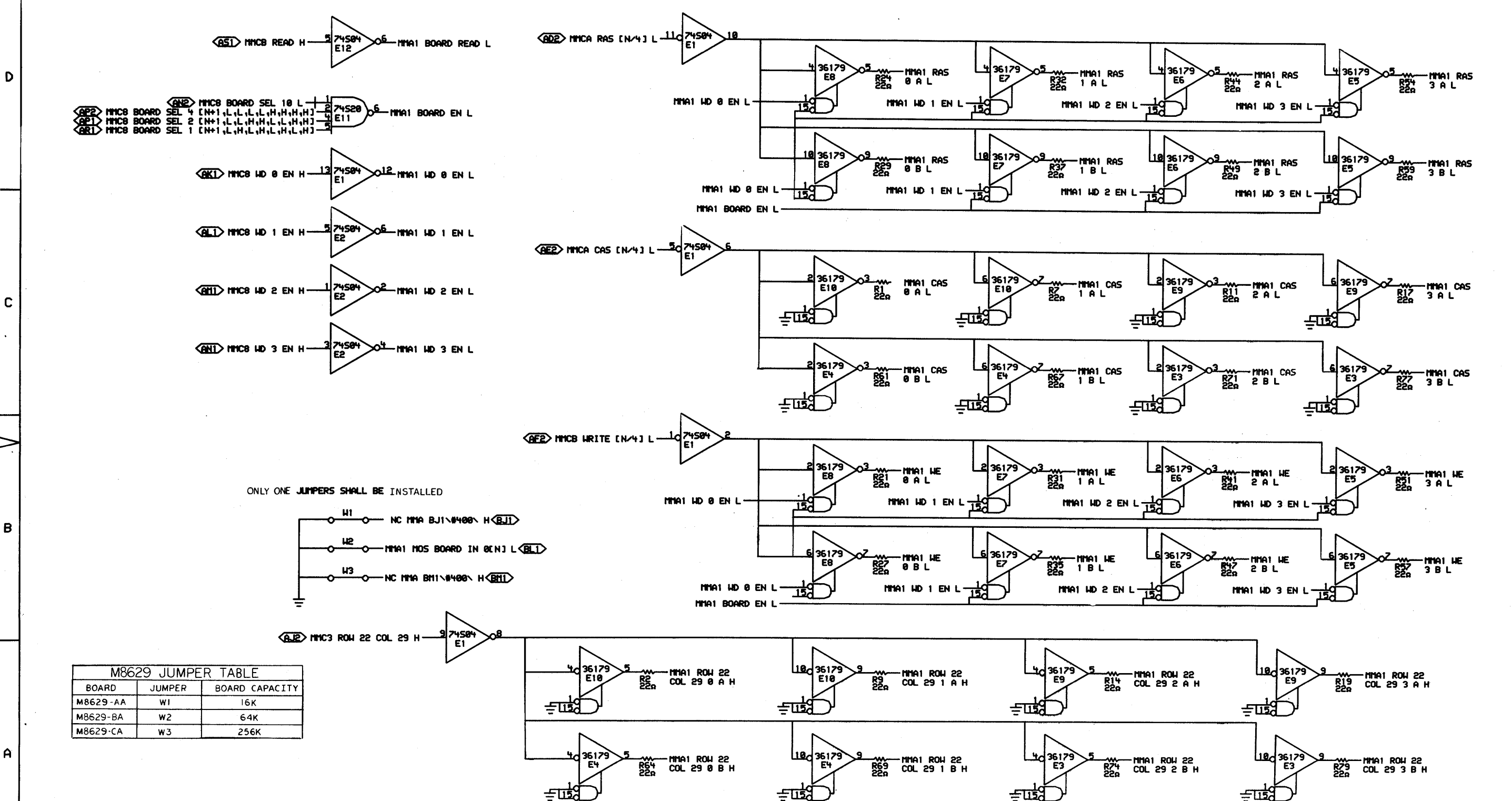
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REWORK INSTRUCTION  
FIRST RELEASE  
ETCH CUTS SIDE 1 (AS SHOWN)  
O-1 AT C11  
ETCH CUTS SIDE 2 (AS SHOWN)  
O-2 ON ETCH ABOVE R81  
O-3 AT LEFT SIDE OF R82  
O-4 ON ETCH ABOVE R84  
WIRE ADD SIDE 1 (AS SHOWN)  
O-5 FROM C24 TO R81  
O-6 FROM C35 TO R82  
O-7 FROM E131(9) TO R83  
O-8 FROM C57 TO R84

REVISIONS

CHK	CHANGE NO.	REV.

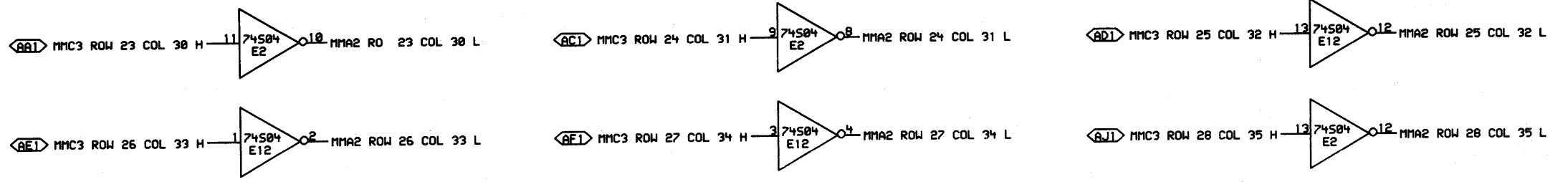
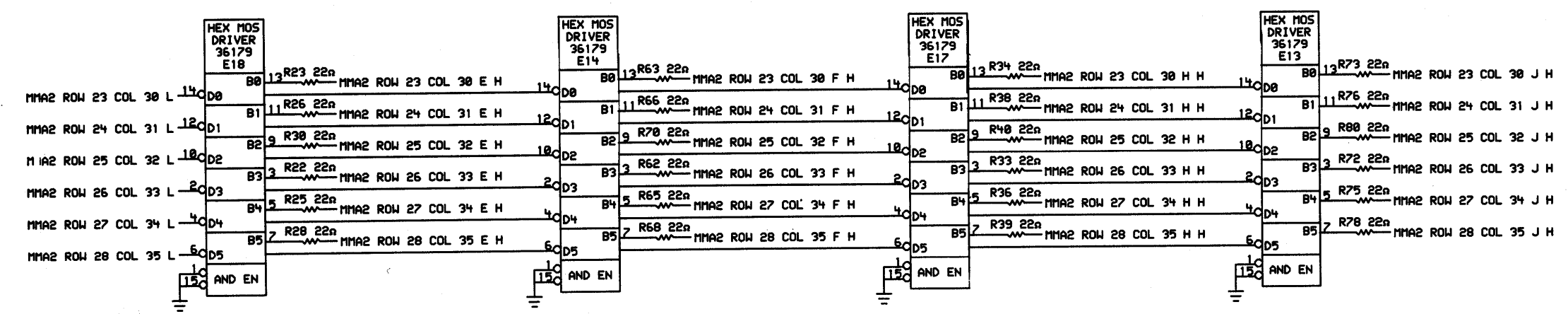
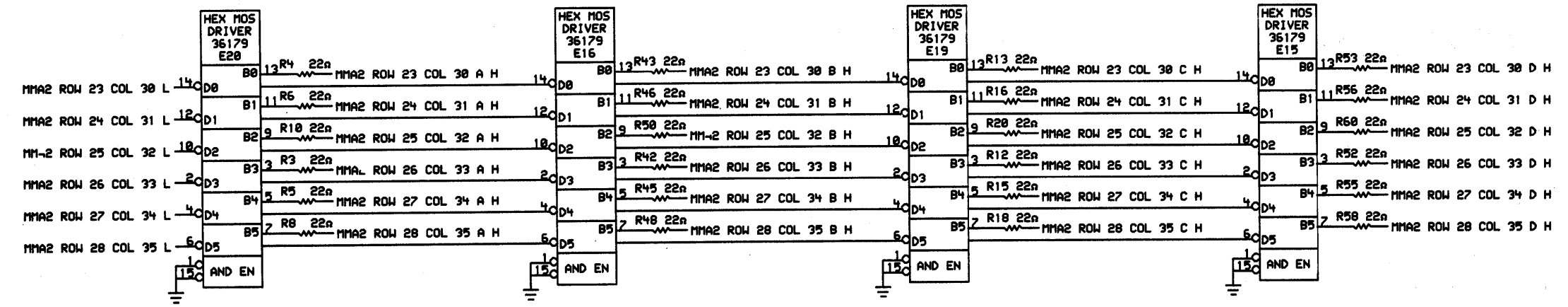
TITLE	MOS MEMORY ARRAY	DESIGN	EUA	NUMBER	M8629-0-0	REV.	A
SCALE	1/2" = 1"	SHEET	5	OF	5	DIST.	1



M8629 JUMPER TABLE

BOARD	JUMPER	BOARD CAPACITY
M8629-AA	W1	16K
M8629-BA	W2	64K
M8629-CA	W3	256K

ONLY ONE JUMPERS SHALL BE INSTALLED



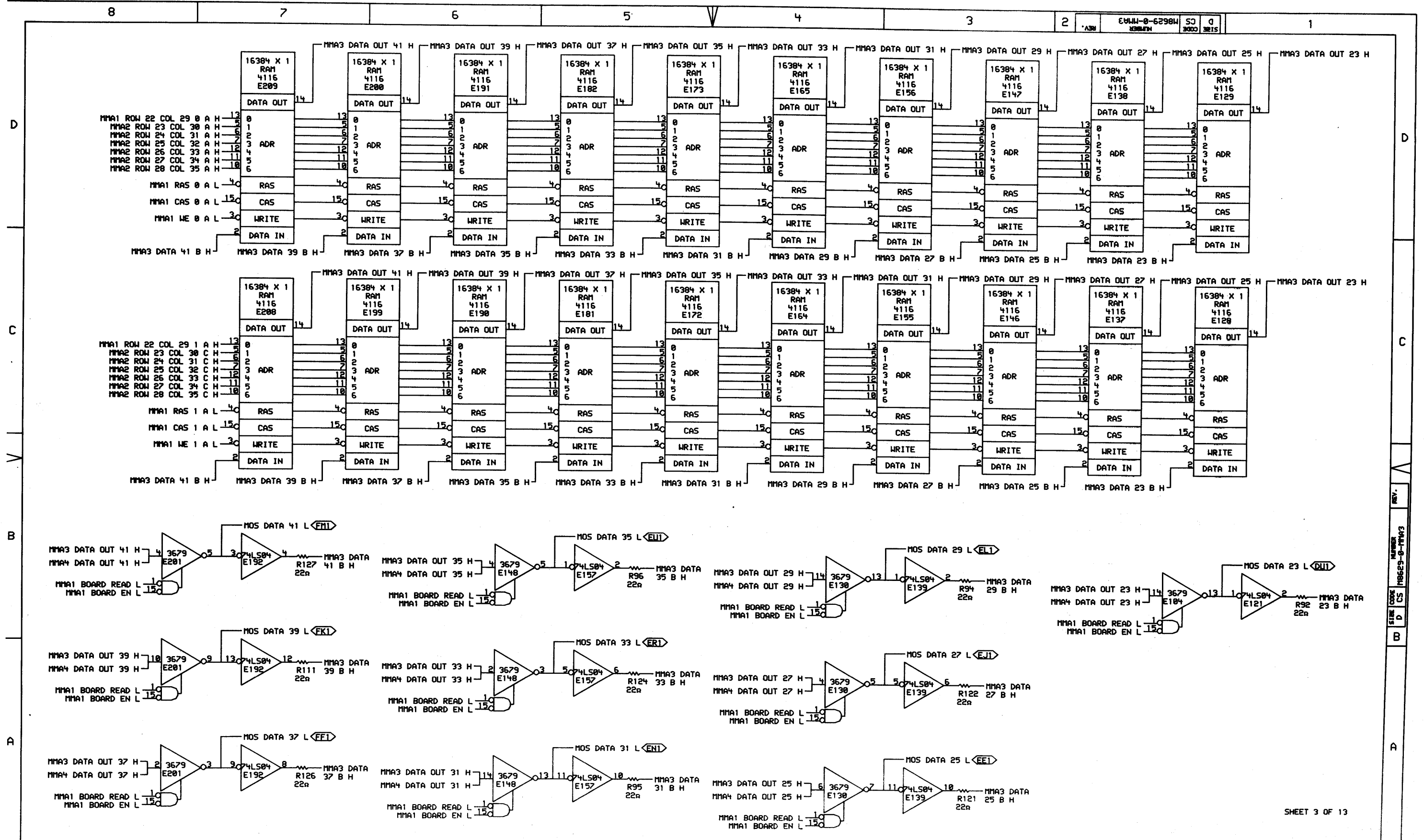
SHEET 2 OF 13

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CHK	CHANGE NO.	REV.

	DRW. <i>J. J. J.</i>	DATE 09-NOV-77	ENG.	DATE	TITLE: MOS MEMORY ARRAY ADDRESS BUFFERS
	CHK'D. <i>J. J. J.</i>	DATE 11-NOV-77	BOARD LOCATION: SHEET 2 OF 2	REV.	NUMBER
MMA2.DRW.4.6553		109-NOV-77 14:48	NEXT HIGHER ASSEMBLY: B-DD-M8629-0	SIZE CODE: D CS	M8629-0-MMA2
FIRST USED ON OPTION MODEL: K510		REV.		REV.	

REV. NUMBER M8629-0-MMA2



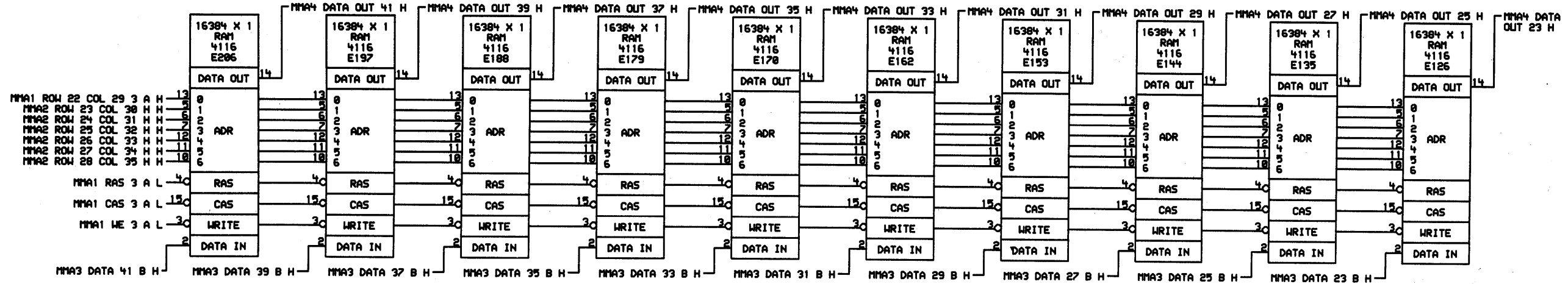
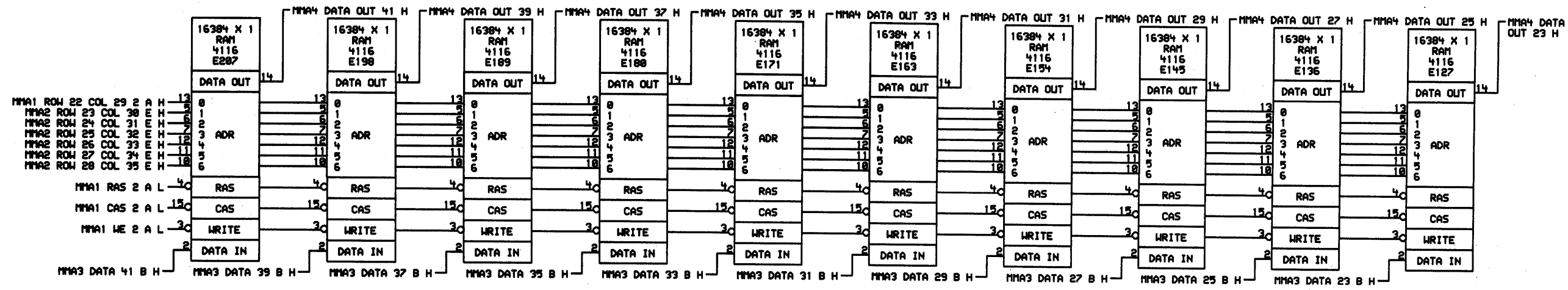
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REVISIONS		
CHK	CHANGE NO.	REV.

	DATE: 11-NOV-77	ENG.:	DATE:	TITLE: MOS MEMORY ARRAY
	CHK'D:	DATE:	BOARD LOCATION:	BITS 41-23 A
MMA3.DRW 4,655	118-NOV-77 15:59	NEXT HIGHER ASSEMBLY:	SIZE CODE:	NUMBER:
FIRST USED ON OPTION/MODEL: KS12	B-DD-M8629-2		D CS	M8629-0-MMA3

SHEET 3 OF 13

REV. NUMBER 18629-0-MMA3  
SIZE CODE D CS



SHEET 4 OF 13

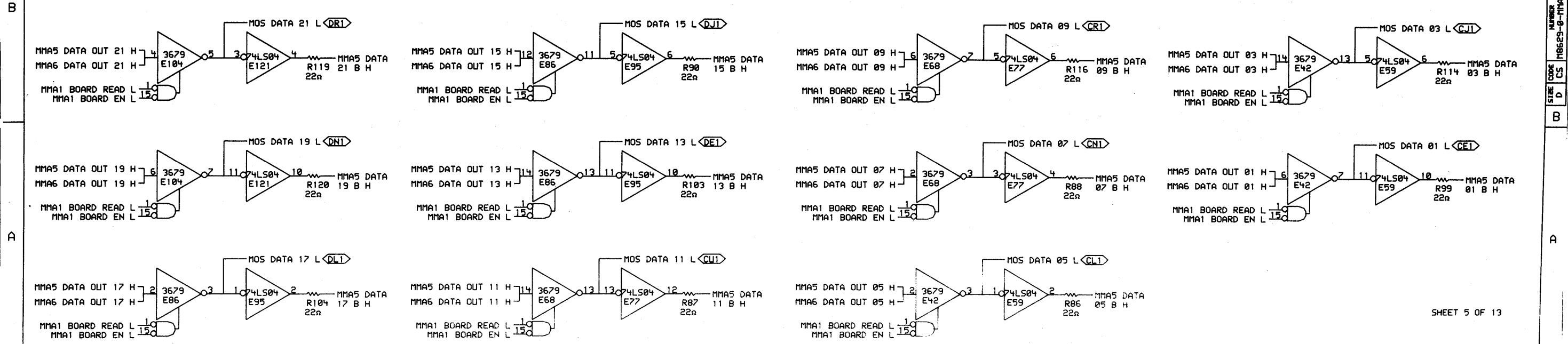
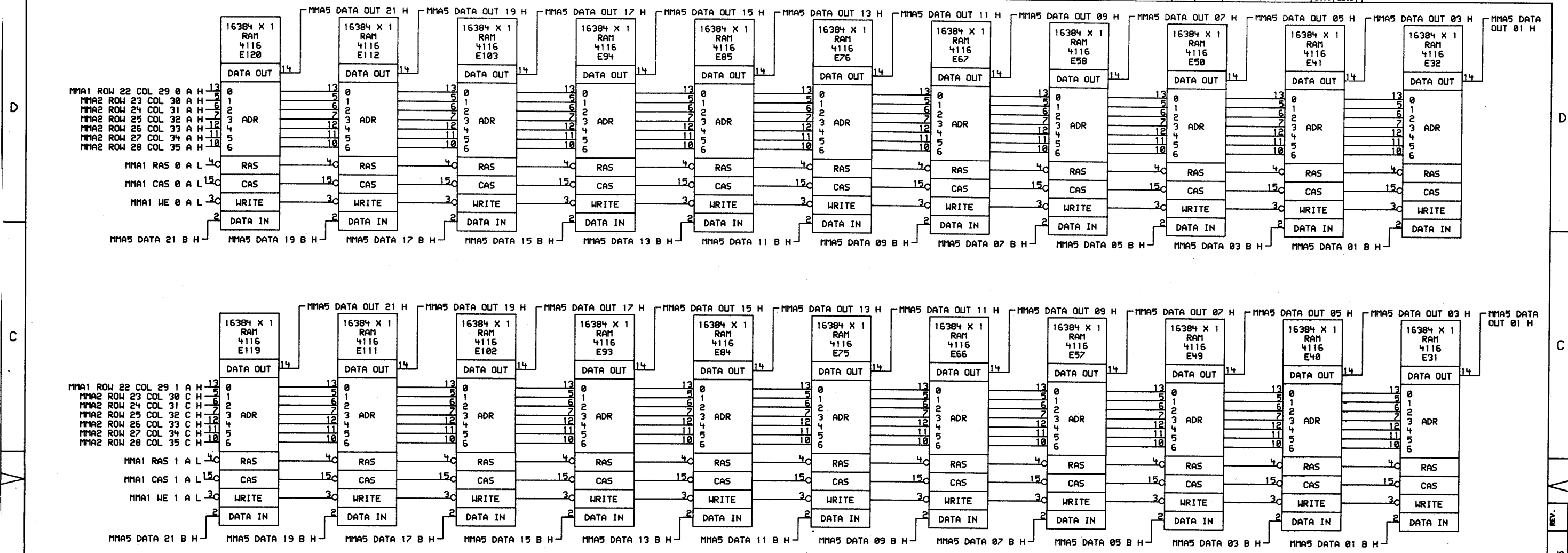
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REVISIONS	
CHK	CHANGE NO. REV.

<b>digital</b>	DATE	ENG.	DATE	TITLE: MOS MEMORY ARRAY
	28-NOV-77			BITS 41-23 B
	DATE	BOARD LOCATION:		
FIRST USED ON OPTION/MODEL: K510		NEXT HIGHER ASSEMBLY: B-DD-M8629-0		SIZE CODE
				D CS
				NUMBER
				M8629-0-MMA4
				REV.

REV. 1  
NUMBER 18629-0-11M4  
CS  
D  
E





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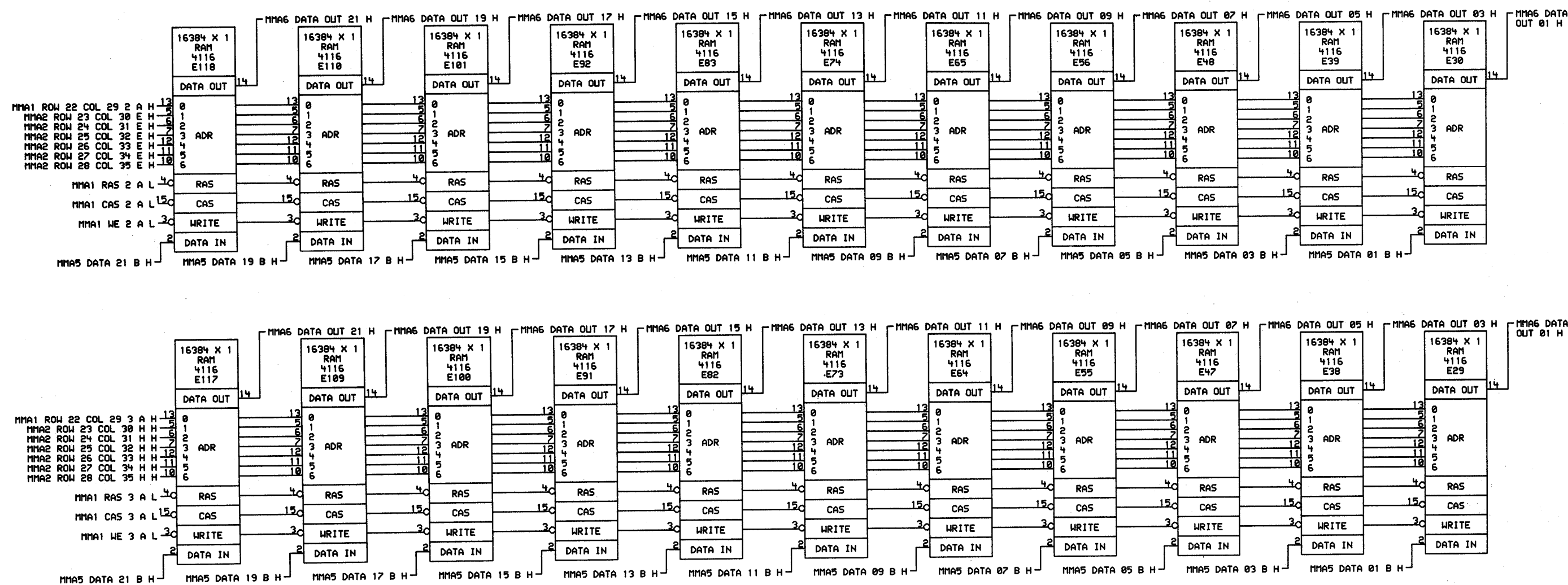
REVISIONS
CHK CHANGE NO. REV.

**digital** DRW. *J. J. J.* DATE 22-NOV-77 ENG. DATE 22-NOV-77 TITLE: MOS MEMORY ARRAY BITS 21-01 A

BOARD LOCATION: SHEET 1 OF 1  
 MMA5.DRW.4,655 09-NOV-77 14:48 NEXT HIGHER ASSEMBLY: B-20-18629-0  
 FIRST USED ON OPTION MODEL: KS:2 B-20-18629-0

SIZE CODE: D CS NUMBER: 18629-0-MMA5 REV. 1

REV. 1  
 NUMBER 18629-0-MMA5  
 CS 3001  
 SITE 3215

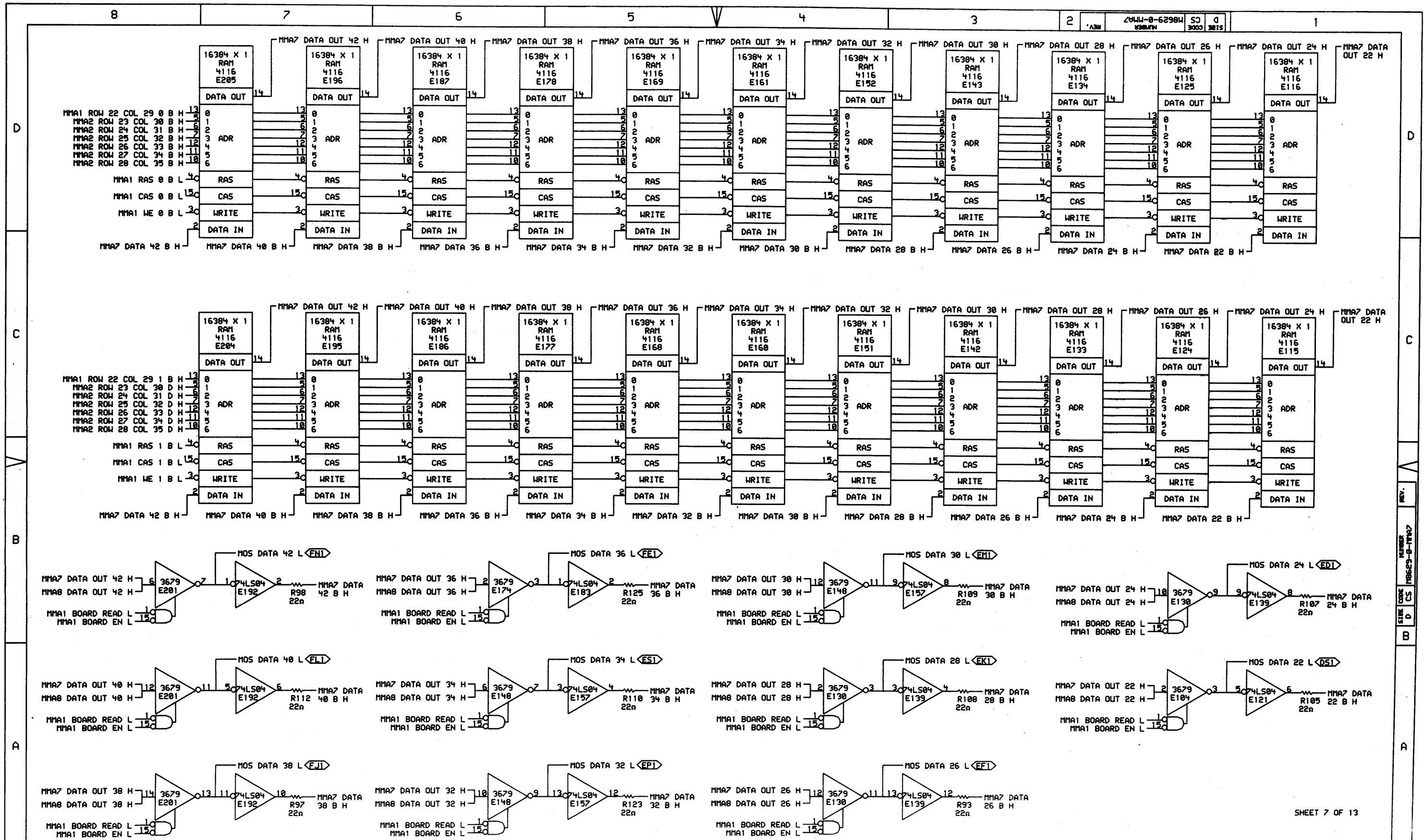


SHEET 6 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

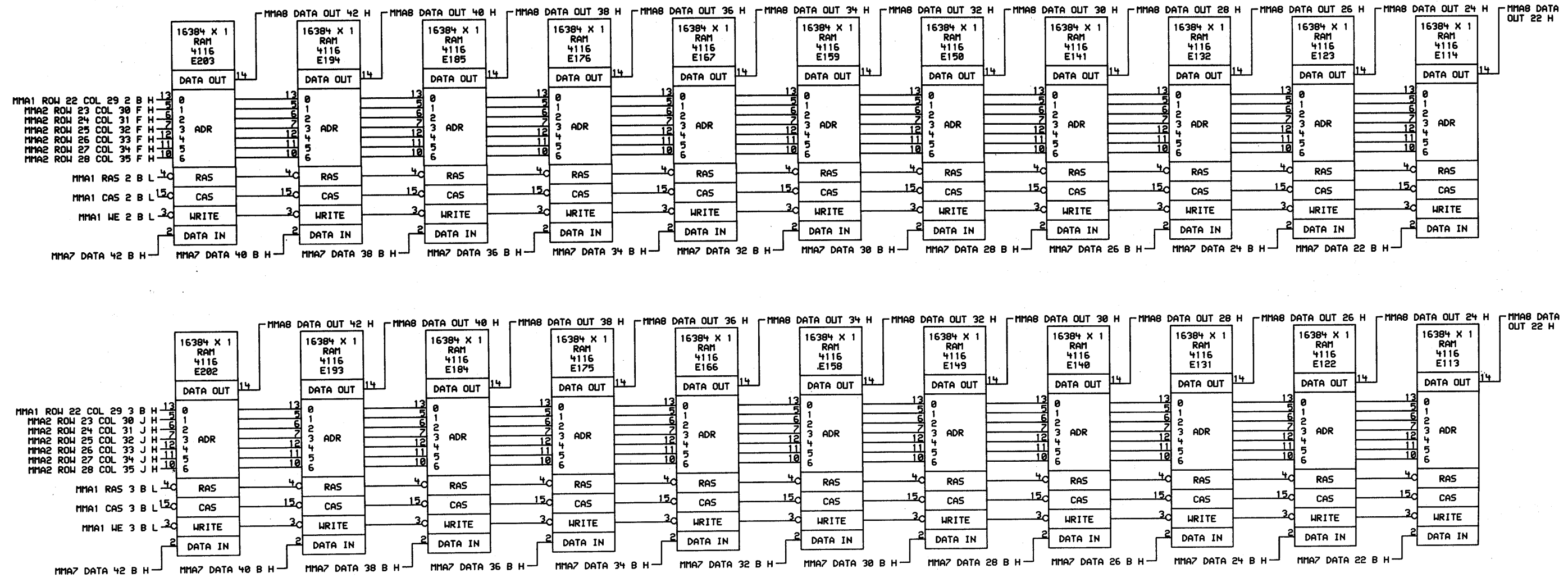
**digital** *Johny* DATE 21-NOV-77 ENG. DATE  
 CHK'D. DATE BOARD LOCATION: SHEET 1 OF 1  
 TITLE: MOS MEMORY ARRAY BITS 21-01 B  
 FIRST USED ON OPTION/MODEL: KS10 B-DD-M8629-0  
 SIZE CODE NUMBER REV.  
 D CS M8629-0-MMA6



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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	ENG.	DATE	TITLE: MOS MEMORY ARRAY
	21-NOV-77	J. J. J.		BITS 42-22 A
MMA7.DRW.4.6557		09-NOV-77 14:51	NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8629-0		D CS M8629-0-MMA7



SHEET 8 OF 13

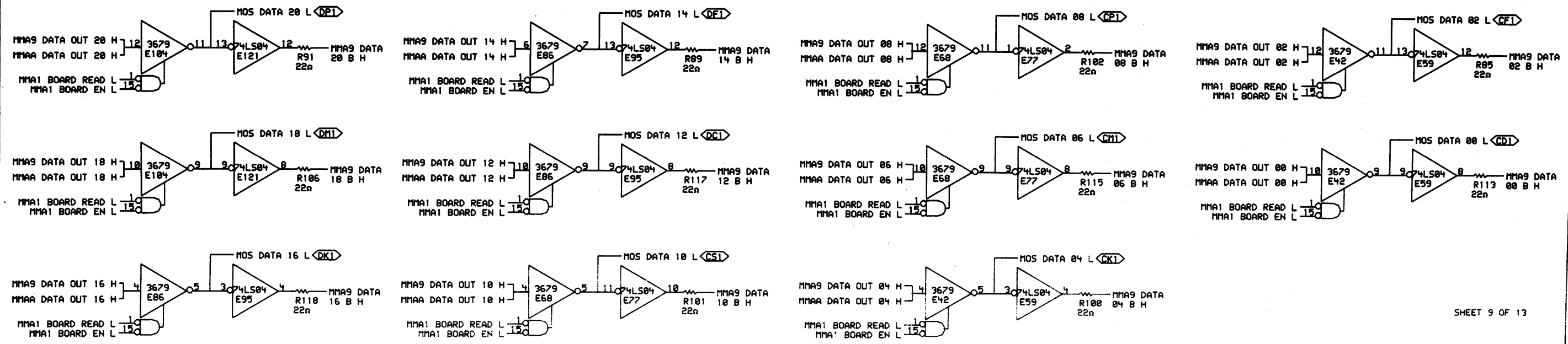
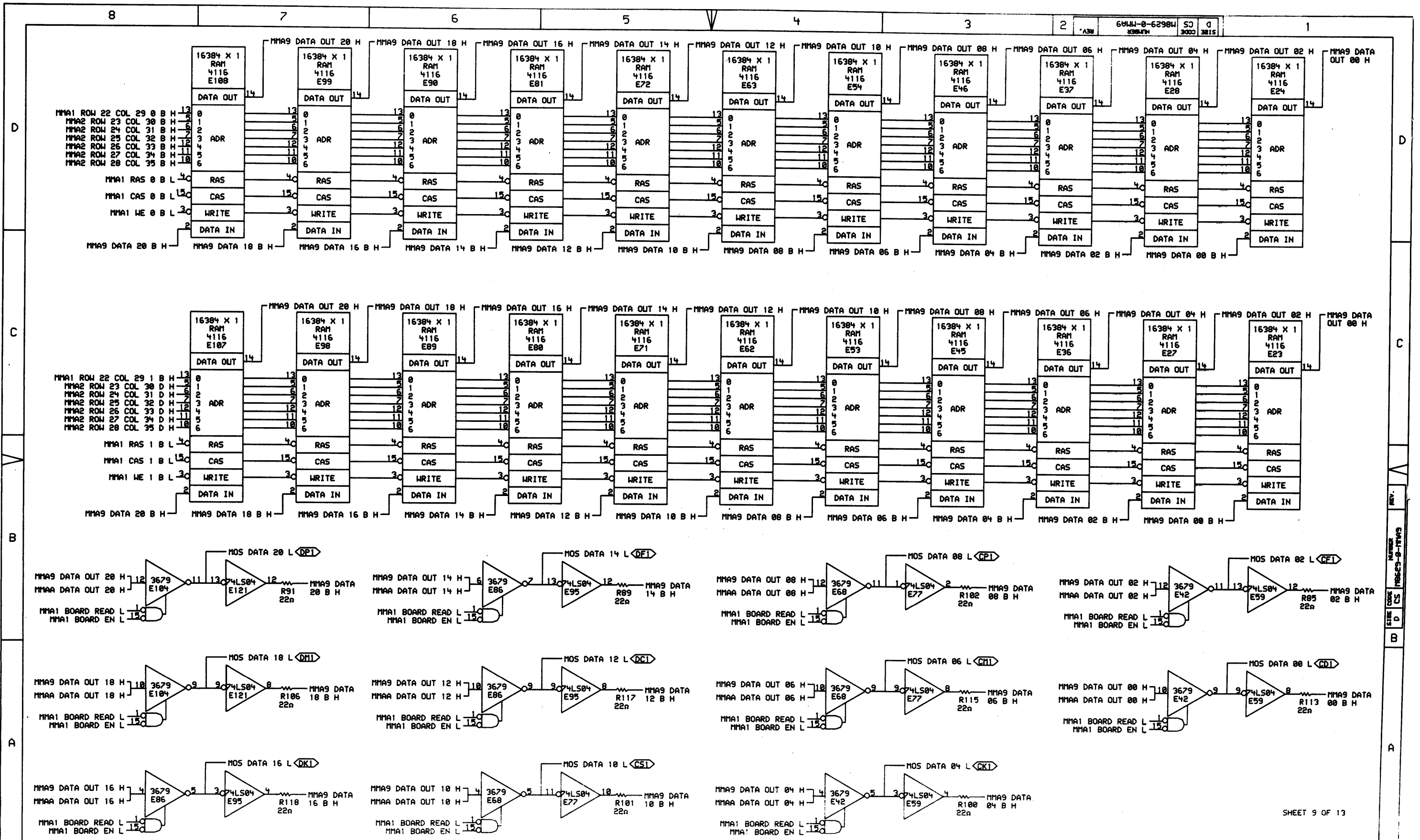
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REVISIONS		
CHK	CHANGE NO.	REV

**digital** *DRN. J. J. J. J.* DATE 09-NOV-77 ENG. DATE 09-NOV-77  
 TITLE: MOS MEMORY ARRAY BITS 42-22 B  
 BOARD LOCATION: SHEET 1 OF 1  
 MMA8.DRW(4,655) 09-NOV-77 14:52 NEXT HIGHER ASSEMBLY: B-DD-M8629-0  
 FIRST USED ON OPTION/MODEL: KS10

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA8	

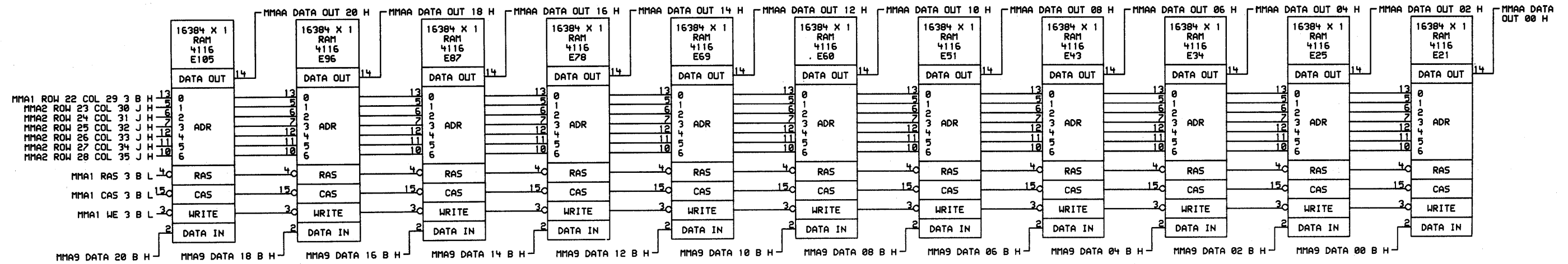
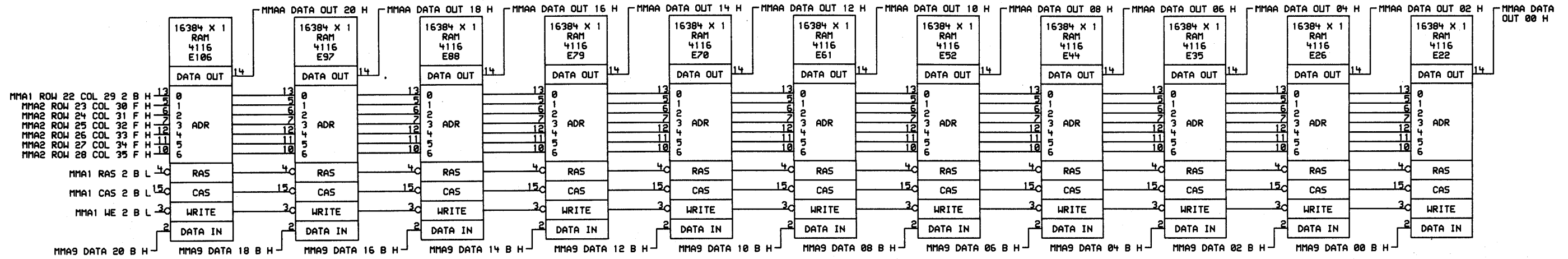
REV. 000000  
 CS 3000  
 D 3215



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REV.	CHK	CHANGE NO.

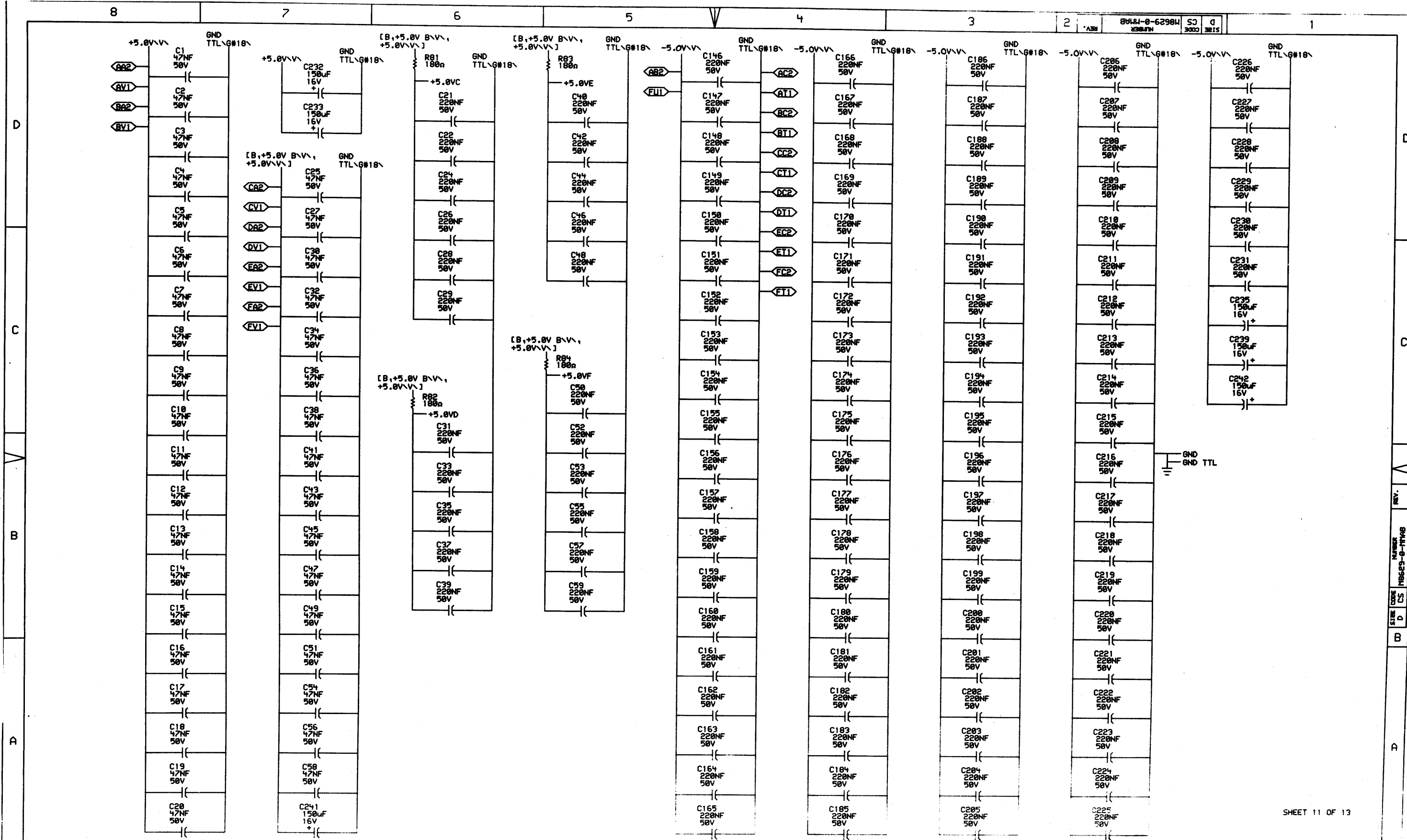
	DATE: 81-NOV-77	ENG.:	DATE:	TITLE: MOS MEMORY ARRAY
	DATE: 09-NOV-77	CHK'D: J. J. J.	BOARD LOCATION:	BITS 20-00 A
MMA9 DRU 4, 655	09-NOV-77 14154	NEXT HIGHER ASSEMBLY:	SIZE CODE:	NUMBER:
FIRST USED ON OPTION MODEL: KS10	B-00-18629-2		D, CS	M8629-0-MMA9



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REV.	DESCRIPTION
CHK	CHANGE NO. REV.

digital	DRN. <i>J. J. J.</i>	DATE ENG. 22-NOV-77	DATE TITLE: MOS MEMORY ARRAY BITS 20-00 B
	CHK'D.	DATE BOARD LOCATION: (SHEET) OF	SIZE CODE NUMBER REV.
MMAA.DRW(4,655)		09-NOV-77 14:55 INEX	HIGHER ASSEMBLY: 0 CS 18629-0-MMAA
FIRST USED ON OPTION/MODEL: K512		B-00-18629-2	



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REVISIONS		
CHK	CHANGE NO.	REV.

	DATE	ENG.	DATE	TITLE: MOS MEMORY ARRAY
	15-NOV-77			POWER, GND, CAPS
DRW. <i>J. J. J.</i> CHK'D. <i>J. J. J.</i>	DATE	BOARD LOCATION:	SHEET	OF
M8629-0-655 FIRST USED ON OPTION MODEL: KS-2	189-NOV-77 NEXT HIGHER ASSEMBLY:	B-22-M8629-2	D CS	NUMBER M8629-0-MMAB



D

C

B

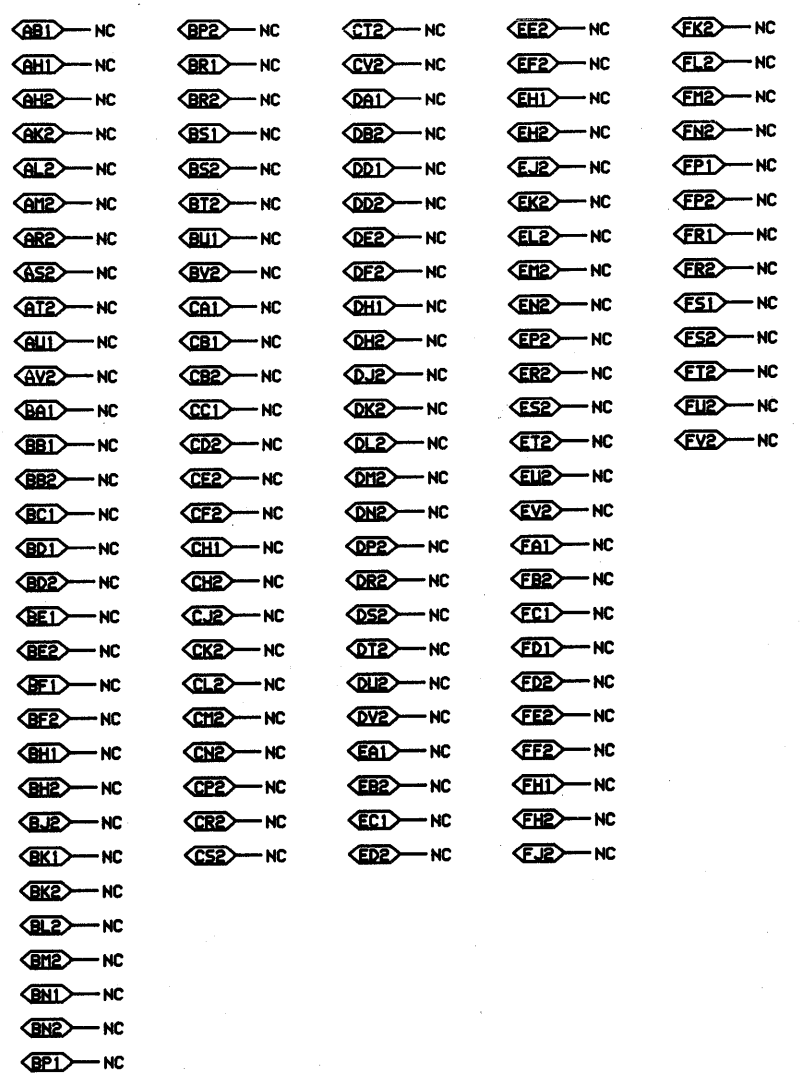
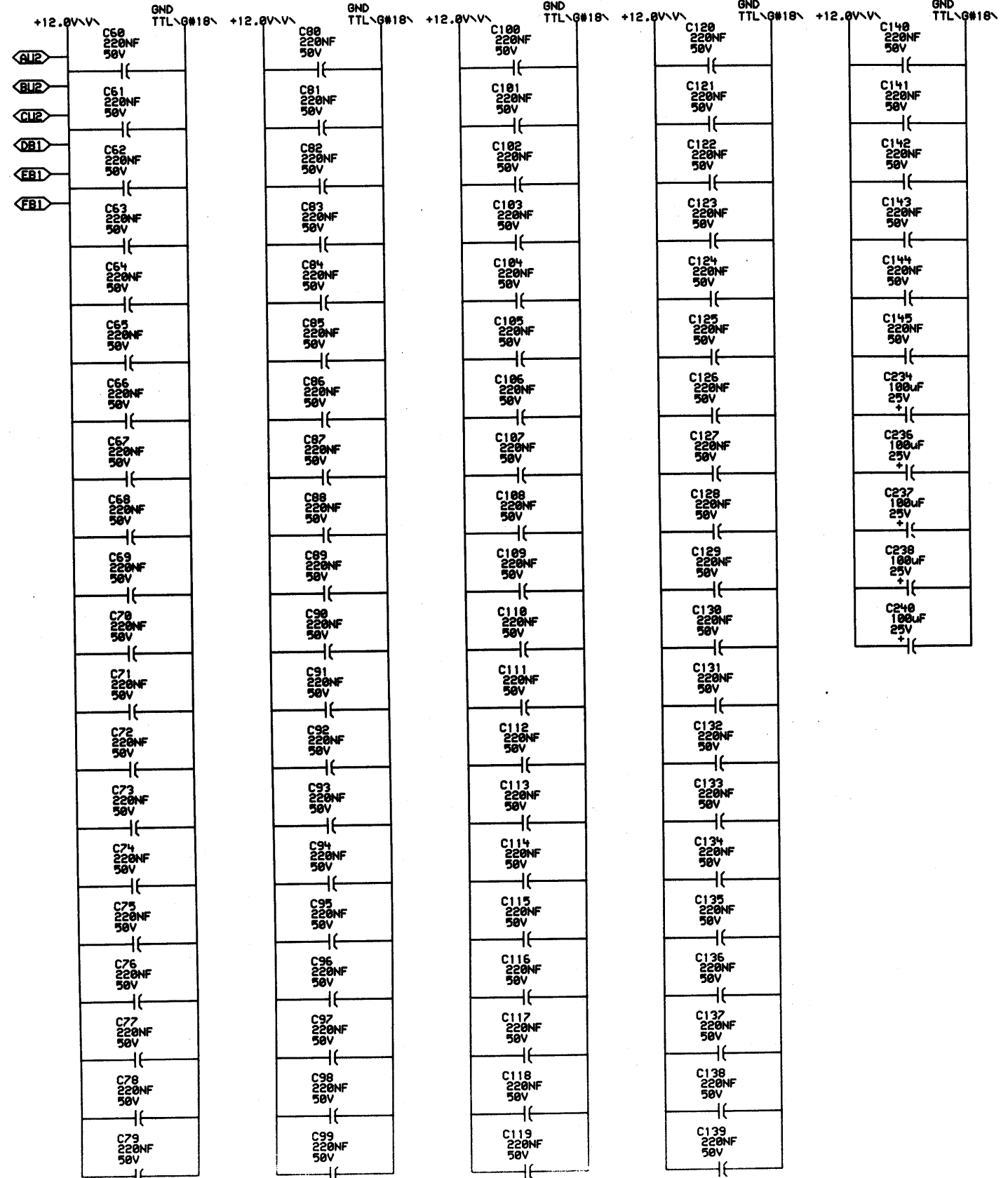
A

D

C

B

A



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REVISIONS		
CHK	CHANGE NO.	REV

	DRN. <i>J. Jamby</i>	DATE	ENG.	DATE	TITLE:
	CHK'D. <i>A. Nelson</i>	15-NOV-77			MOS MEMORY ARRAY
MMAC.DRW(4,655)	109-NOV-77 13:27	BOARD LOCATION:		NUMBER	
FIRST USED ON OPTION/MODEL: K510	B-DD-M8629-8	SHEET		REV.	
		NEXT HIGHER ASSEMBLY:		D CS M8629-0-MMAC	



D

C

B

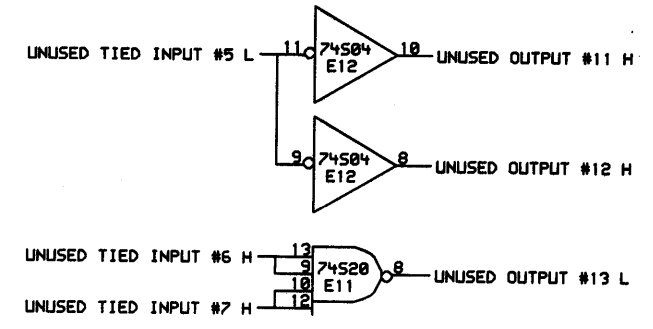
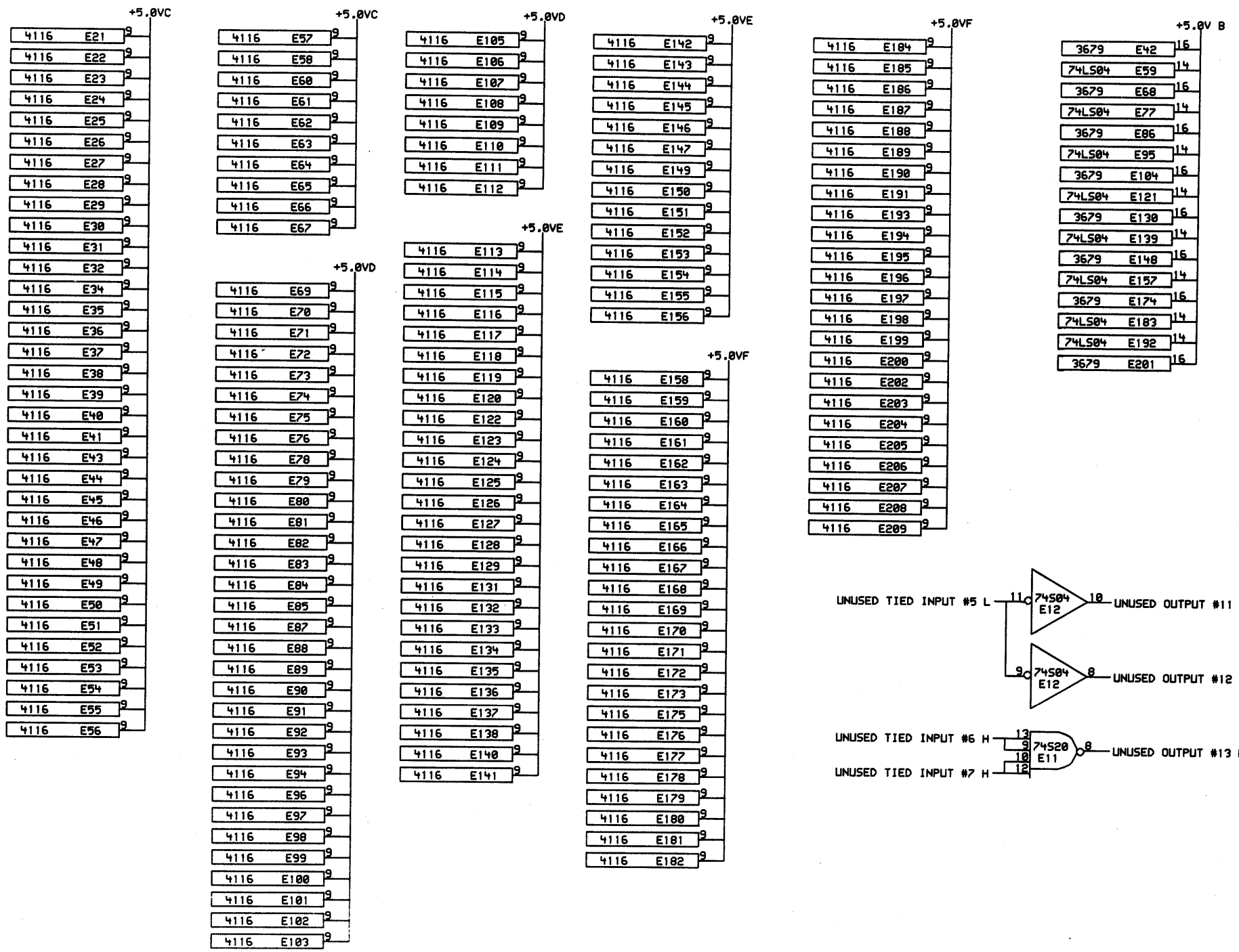
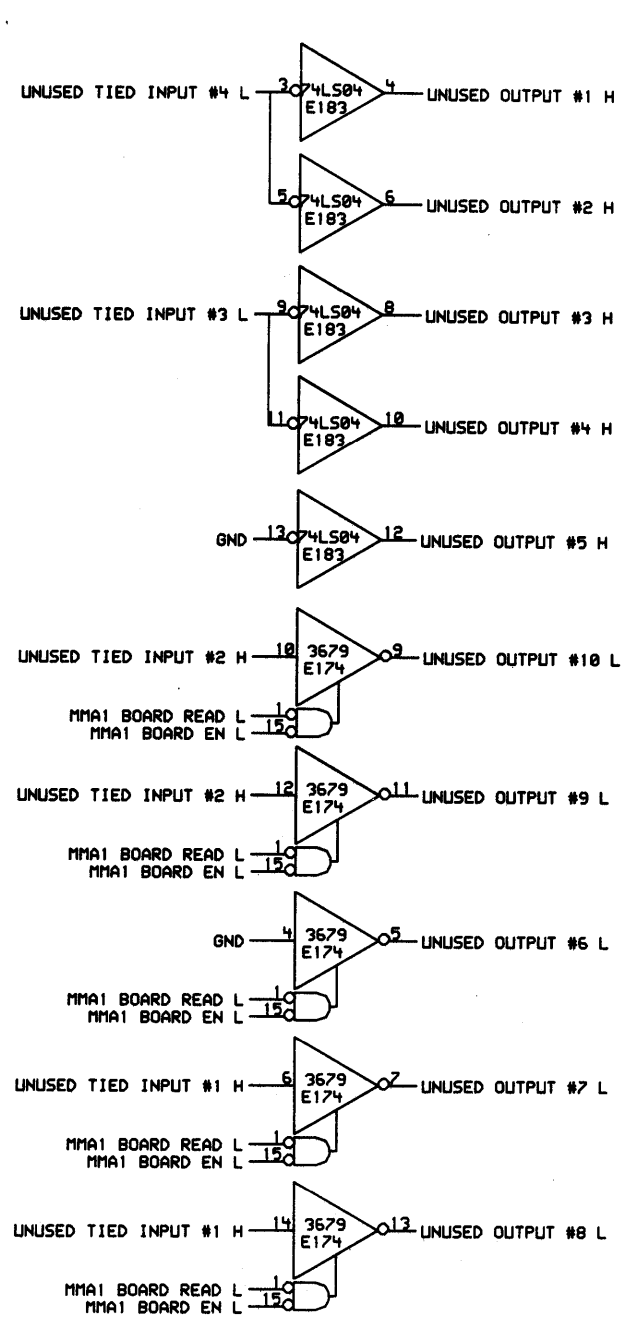
A

D

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B

A



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REV	CHG	NO.	REV

digital	DRW. <i>J. Lashby</i>	DATE 22-NOV-77	ENG.	DATE	TITLE: MOS MEMORY ARRAY +5.0V
	CHK'D.	DATE	BOARD LOCATION:	SHEET	SIZE CODE NUMBER
MMA1.DRW(4,655)		09-NOV-77 15:56	NEXT HIGHER ASSEMBLY:	D CS 18629-0-MMAD	
FIRST USED ON OPTION/MODEL: K510		B-20-18629-2		REV.	

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<b>MAYNARD, MASSACHUSETTS</b>						
<b>ENGINEERING SPECIFICATION</b>				DATE 17 FEB 79		
TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION						
<b>REVISIONS</b>						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Marty Schwartz	APPD <i>T. Duncanson 4/25/79</i>	SIZE <b>A</b>	CODE SP	NUMBER KS10-0-2	REV
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EN-1079A-16-R873-(392)  
DRA 107A

SHEET 1 OF 12

<b>ENGINEERING SPECIFICATION</b>	<b>000000</b>	<b>CONTINUATION SHEET</b>		
TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION				
<p>1.0</p> <p>This specification is intended to provide a criteria to insure the option under test is fully functional and to specify limits for product maturation. It is not intended to specify the amount of testing to achieve product maturation or the testing sequence for optimal debugging.</p>				
<p>2.0      <b>DIAGNOSTICS REQUIRED FOR BASIC CPU TESTING</b></p>				
<p>a.          SMCPU.COMD                  Processor Diagnostic Run File</p> <p>b.          DSKAA.SAV                  Basic Instruction Diagnostic #1</p> <p>c.          DSKAB.SAV                  Basic Instruction Diagnostic #2</p> <p>d.          DSKAC.SAV                  Basic Instruction Diagnostic #3</p> <p>e.          DSKAD.SAV                  Basic Instruction Diagnostic #4</p> <p>f.          DSKAE.SAV                  Basic Instruction Diagnostic #5</p> <p>g.          DSKAF.SAV                  Basic Instruction Diagnostic #6</p> <p>h.          DSKAG.SAV                  Basic Instruction Diagnostic #6</p> <p>i.          DSKAH.SAV                  Basic Instruction Diagnostic #7</p> <p>j.          DSKAI.SAV                  Basic Instruction Diagnostic #8</p> <p>k.          DSKAJ.SAV                  Basic Instruction Diagnostic #9</p> <p>l.          DSKAK.SAV                  Basic Instruction Diagnostic #10</p> <p>m.          DSKAL.SAV                  Basic Instruction Diagnostic #11</p> <p>n.          DSKAM.SAV                  Basic Instruction Diagnostic #12</p> <p>o.          DSKAB.SAV                  Basic Instruction Reliability #1</p> <p>p.          DSKCA.SAV                  Advanced Instruction Diagnostic #1</p> <p>q.          DSKCB.SAV                  Advanced Instruction Diagnostic #2</p> <p>r.          DSKCC.SAV                  Advanced Instruction Diagnostic #3</p> <p>s.          DSKCD.SAV                  Advanced Instruction Diagnostic #4</p> <p>t.          DSKCE.SAV                  Advanced Instruction Diagnostic #5</p> <p>u.          DSKDA.SAV                  Arithmetic Reliability</p> <p>v.          DSKEA.SAV                  Paging Diagnostic</p> <p>w.          DSKFB.SAV                  Instruction Timing Diagnostic</p> <p>x.          DSMMG.SAV                  Memory Diagnostic</p> <p>y.          DSRME.SAV                  RM03 Basic Diagnostic</p> <p>z.          DSRMF.SAV                  RM03 and RP06 Reliability</p>				
<p>3.0      <b>ADJUSTMENTS and/or SPECIAL TESTS</b></p> <p>Before any diagnostic programs can be run, the T and R clocks which originate on the M8616 module must be deskewed. The M8616 must NOT be on an extender and no other modules should be installed to allow clearance to set the delay line switches.</p>				
	SIZE <b>A</b>	CODE SP	NUMBER KS10-0-2	REV

DEC FORM NO EN-01022-16-N370-(381)  
DRA 108

SHEET 2 OF 12

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION

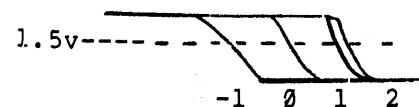
The T and R clocks are deskewed by locating the clock in each group of four which falls in the center of the four clocks and skewing it with the center clock in each other group by setting the switch inputs of the programable delay lines. Refer to D-CS-M8616-0-1.

3.1 Procedure

- 3.1.1 Connect channel 1 and 2 to A18H2 (T clk) and connect the probe grounds to T1 or C2 of any slot. Sync on the negative transition. Check that the two channels align at the 1.5 volt value.
- 3.1.2 Set all delays to mid value (delay = 7 n.s.) as follows. Set all switches on E208 and E309 off. Set E208-1,5 and E309-1,3,7 on.
- 3.1.3 Locate the center clock in group 1 and connect the center clock to channel 1.

To locate the clock which falls in the center of the group connect channel one to one of the clocks in the group. Assign its negative transition at the 1.5v level a value of zero to the x axis. Then connect channel 2 to the other clocks in the group and add the skew values of the other three clocks in relation to the first clock and divide the value by four. Select the clock nearest to the center value as the center clock. Refer to Table 1 for clock groups.

EXAMPLES:



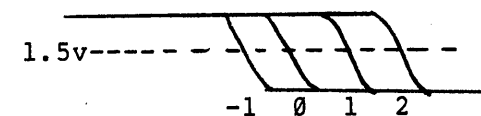
$-1+0+1+1=1-4=1/4$  n.s.  
Clock which crosses at zero is center clock

SIZE	CODE	NUMBER	REV
A	SP	KS10-0-2	

**ENGINEERING SPECIFICATION**

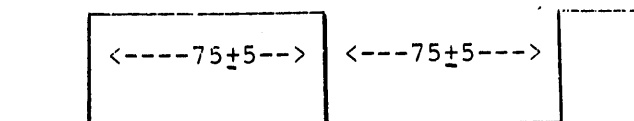
CONTINUATION SHEET

TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION



$-1+0+1+2=2-4=1/2$  n.s.  
clock which crosses at one is center clock

- 3.1.4 Verify that the negative edge of the center clock in group 2 and 3 is within 7 n. s. of the negative edge of group 1. If not move group 1 delay + or - to get under 7 n. s. Refer to Table 2.
  - 3.1.5 Verify that the + edge of the center clock in group 4 and 5 is within 35 n. s. + 7 of the negative edge in group 1. If not move group 1 delay + or - to get under 7 n. s.
- Example: If a group is 12 n. s. late with respect to group 1 change the group 1 delay from 7 to 2 n.s.
- If a group is 12 n.s. early with respect to group 1 change the group 1 delay from 7 to 12 n.s.
- If the skew between any two groups is greater than 13 n.s. the board can not be deskewed. One or more of the components is out of spec.
- 3.1.6 Deskew the center clock of each group by adjusting the switches in Table 2 to minimize skew with respect to group 1.
  - 3.3.7 Verify that the symmetry of the half cycles is 5 n.s. or less.



SIZE	CODE	NUMBER	REV
A	SP	KS10-0-2	

# ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION

## 4.0 MTBF

This option must have sufficient power on time to insure process maturity. MTBF's for modules are specified as follows:

M8616	(CSL)	8227 Hrs.
M8618	(MMC)	74253 Hrs.
M8619	(UBA)	53636 Hrs.
M8620	(DPE)	13380 Hrs.
M8621	(DPM)	36090 Hrs.
M8622	(CRA)	14488 Hrs.
M8623	(CRM)	9460 Hrs.
M8629	(ARRAY)	68854 Hrs.

MTBF of the power system is specified as follows:

H7130	(Power Supply)	15000 Hrs.
861C	(Power Control)	483676 Hrs.

## 5.0 MAXIMUM ENVIRONMENTAL TEST CONDITIONS

- a. Humidity - less than or equal to 80% non-condensing
- b. Temperature - +50°F to +120°F (fans in operation)

## 6.0 POWER SYSTEM

### a. DC Voltage Specification

+5.0 Volts	±5%
-15.0 Volts	±5%
-5.0 Volts	±5%
+12.0 Volts	±10%

### b. AC Voltage Specification

KS10-AA	Line Voltage 104-126 VAC Frequency 60Hz ±1 Hz
KS10-AB	Line Voltage 207-253 VAC Frequency 50Hz ±1 Hz

SIZE	CODE	NUMBER	REV
A	SP	KS10-0-2	

# ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION

## Thermal Shutdown

The KS10 will power down via the DEC Power Control Bus when the temperature of the air entering the CPU card cage exceeds 105°F ±4°F.

## f. Power Fail

Minimum ride through during a power outage condition is 5 ms.

## g. Power Transients

No system degradation for single transient of 300 volts @ .2 Watt-seconds.

Survival for single transient of 1000 volts @ 2.5 Watt-seconds.

## 7.0 MARGINS

### a. Voltage Margins

Must run SMCPU.CMD, DSMMG (WCP), and DSRMF (FRTEST and RCTEST) with the following voltage margins:

+5.0 volts	+5.25 volts to +4.75 volts
-5.0 volts	-5.25 volts to -4.75 volts
-15.0 volts	-14.25 volts to +15.75 volts
+12.0 volts	+13.2 volts to +10.8 volts

SIZE	CODE	NUMBER	REV
A	SP	KS10-0-2	

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE KS10 AA, AB MANUFACTURING TEST SPECIFICATION

Voltages are adjusted and measured with a DVM (.1% accuracy or better) as follows:

[Refer to Figure 1]

Voltage	Adjustment	Measured At
+5.0 volts	V1	A01A2
+5.0 volts	V2	A19A2
-5.0 volts	V5	A01B2
-15.0 volts	V4	A18B2
+12.0 volts	V3	A01U2

b. Speed Margins

Must run SMCPU.COMD, DSMMG (WCP) and DSRMF (FRTEST and RCTEST) with master oscillator running at 25.0 MHZ (slow margin) and at 30.0 MHZ (fast margin) via external clock generator.

c. Unibus Margins

The Unibus must be margined with the Unibus Voltage Margin Tester and the M9308 single-ended margin terminator. All functional tests which use the Unibus must run successfully between 7.85 Volts (high margin) and 2.93 Volts (low margin) as displayed by the panel meter on the tester.

8.0 VIBRATION

Modules must be vibrated using a Teflon rod or similar "wand" while the option is in operation. Modules should be stroked in a direction perpendicular to the plane of the board. The modules should be vibrated briskly but not with enough force to cause physical damage or to remove pin contact.

SIZE	CODE	NUMBER	REV
A	SP	KS10-0-2	

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE KS10 AA, AB MANUFACTURING TEST SPECIFICATION

9.0 FUNCTIONAL TESTS

The following tests must be run to insure that the option is fully functional:

- a. Verify that the 8080 micro-processor is fully functional by executing all console fuctions and verifying that they were executed correctly.
- b. Run SMCPU.COMD with cache on.
- c. Run DSKFB (SPEEDY) with cache on and cache off. Refer to Table 3 for instruction timing specs.
- d. Run DSKDA for one pass with the reliability switch on.
- e. Run DSMMG for one pass with cache on and one pass with cache off/ECC off.
- f. Using "known good" storage array modules test any remaining storage array slots with DSMMG.
- g. With a Unibus Adapter Board (M8619) in slot 19 (UBA 1) run DSRME and DSRMF disc diagnostics. Repeat with the Unibus Adapter in slot 16 (UBA 3) and slot 15 (UBA 4).

10.0 ERROR RATES

No errors allowed

11.0 RETEST PROCEDURE AFTER FAILURE

Repair of Module - If the failing module is repaired, then testing may continue from the current point in the test sequence.

Replacement of Module - Test must be rerun

SIZE	CODE	NUMBER	REV
A	SP	KS10-0-2	