

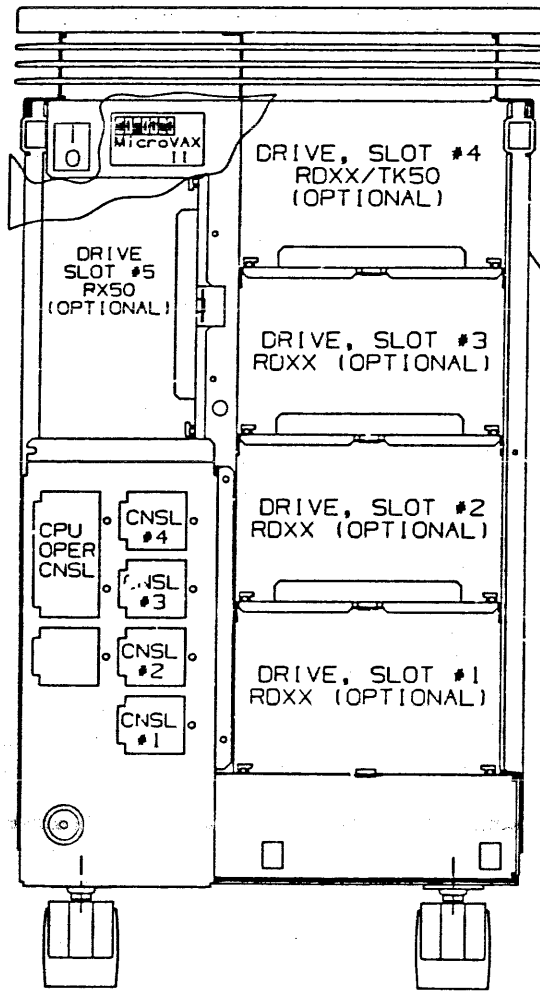


\*THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

LEGEND		
PART NO.	REV	VARIATION
6300B-A2	A2	1 MB FP 120V
6300B-A3	A2	1 MB FP 240V
6300B-B2	A2	1 MB NO FP 120V
6300B-B3	A2	1 MB NO FP 240V
6300B-C2	A2	256 KB FP 120V
6300B-C3	A2	256 KB FP 240V
6300B-D2	A2	256 KB NO FP 120V
6300B-D3	A2	256 KB NO FP 240V

NOTES:

- BACK PANEL CONFIGURATION RULES & MASS STORAGE CONFIGURATION RULES: REF D-AR-7022380-0-DBU
- ITEM #5 NOT SHOWN ON THIS ASSY.



VIEW A-A  
(FRONT)  
(SEE SHEET 2)  
SHOWN WITHOUT FRONT  
OR SIDE PANELS

(SEE SHEET 2)

LAYER #6: WORK LAYER (SHT 4)  
LAYER #5: WORK LAYER (SHT 3)  
LAYER #4: FORMAT LAYER (SHT 2,3 & 4)  
LAYER #3: WORK LAYER (SHT 2)  
LAYER #2: FORMAT LAYER (SHT 1)  
LAYER #1: WORK LAYER (SHT 1)  
PLOT SCALE: .50  
SYSTEM #: 20  
PROGRAM VERSION: UGRAF D4.1  
FILE NAME: 6300B-0-DBUB  
TITLE: 6300B MICRO VAX II WORLD BOX

PLOT AT .50

CAUTION: OFF SHEET PARTS LIST EXISTS  
REFER TO K-PL-6300B-0-DBP  
(ML 863)

REV.	CHG	INITIAL	DATE
A			
B			
C			
D			

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSIONS	DIMENSION RANGE IN INCHES		
	OVER 0.2 TO 12.0	OVER 1.2 TO 12.0	OVER 12.0 TO 40.0
ANGLES	TOLERANCE		
SURFACE QUALITY	TOLERANCE		
FINISH	TOLERANCE		
QUANTITY & VARIATION	TOLERANCE		
THIRD ANGLE PROJECTION	DATE	TITLE	
DO NOT SCALE DRAWING	DATE	6300B MICRO VAX II WORLD BOX	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DOCUMENT NUMBER	
MATERIAL	DATE	SIZE	CODE
SEE PARTS LIST	DATE	D	UA
FINISH	DATE	NUMBER	REV.
NONE	DATE	B-00-6300B-0-DBU	B
	TOP DOC.	SCALE	SHEET
		1/2	1 OF 4

\*THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

6300B-0-DBU 2

6300B-0-DBU

6300B-0-DBU

FOR MODULE UTILIZATION SEE SHEET 4

A

B

A (SH 3)

B (SH 3)

14

15 OR 25 OR 16

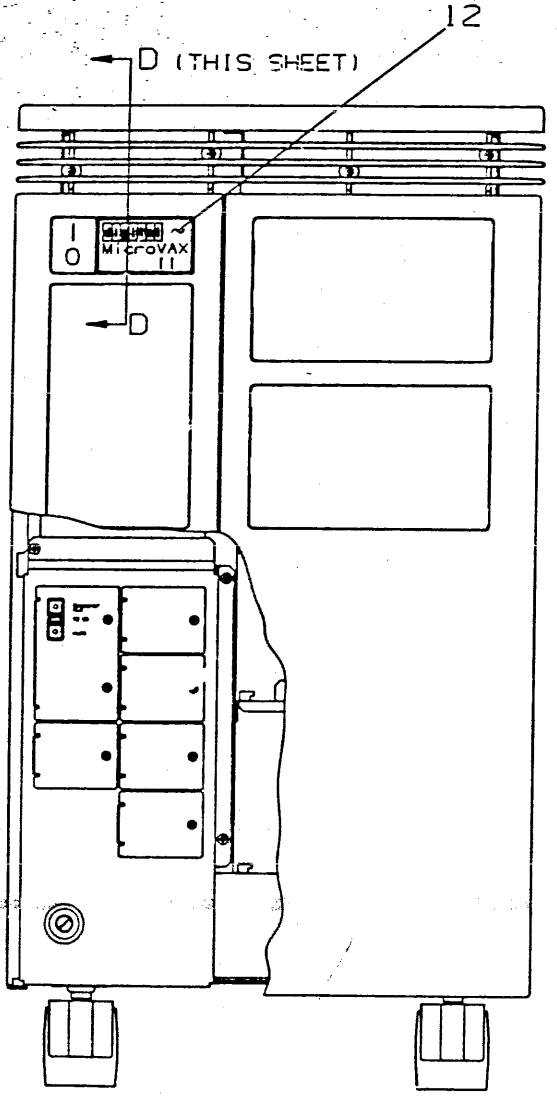
REVISIONS		
CHK	CHANGE NO	REV

PLOT AT .50

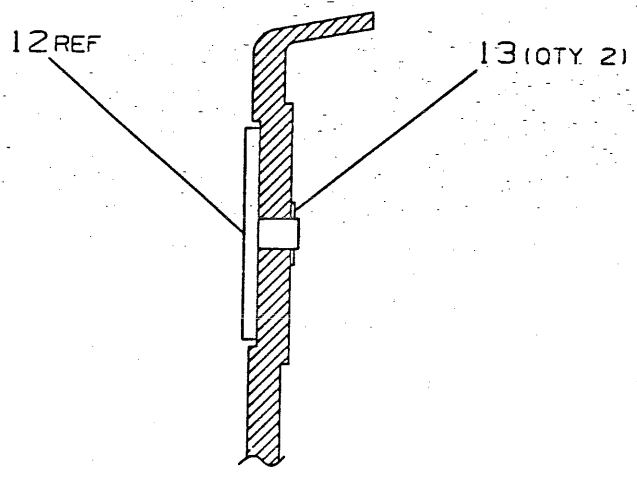
TITLE	6300B MICRO VAX	SIZE CODE	D UA	NUMBER	6300B-0-DBU	REV	B
SCALE	1/2	SHEET	2	OF	4	DIST	

\*THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

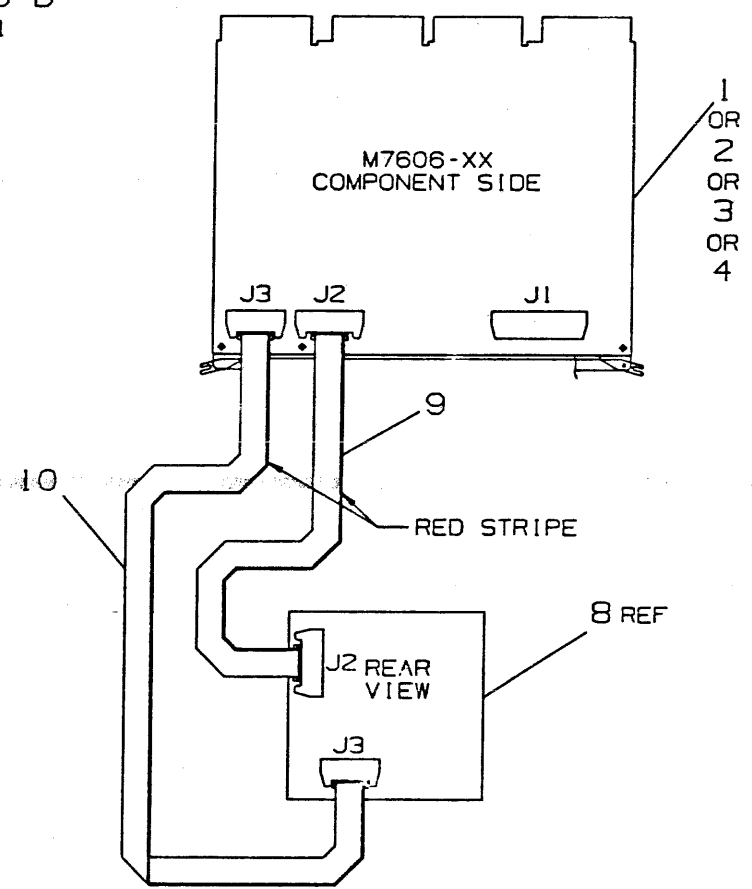
6300B-0-DBU 2



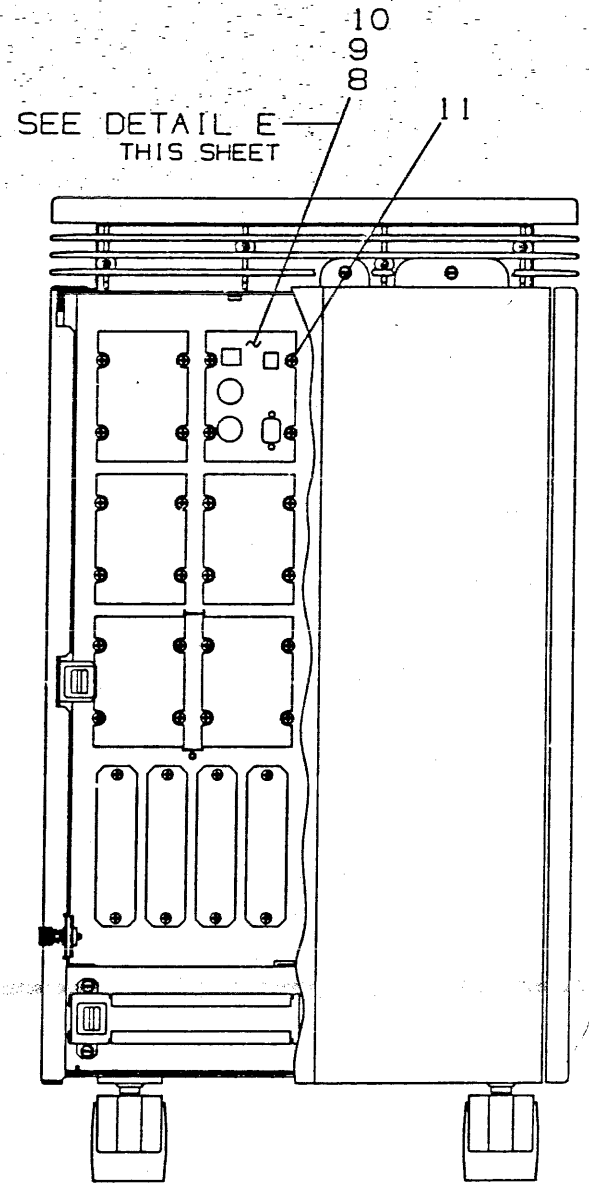
VIEW A-A  
SEE SHT 2



SECTION D-D  
SCALE 2/1



DETAIL "E"



VIEW B-B  
SEE SHT 2

REVISIONS		
CHK	CHANGE NO	REV

TITLE 6300B MICRO VAX II WORLD BOX  
SCALE 1/2 SHEET 3 OF 4  
SIZE CODE D UA  
NUMBER 6300B-0-DBU  
REV B

PLOT AT .5000

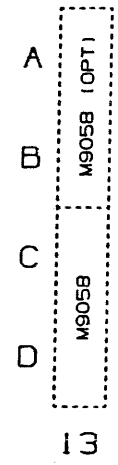
MLO1



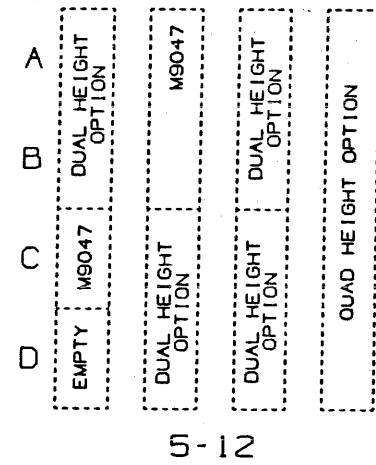
THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

g n80-0-600E9 vni Q 2

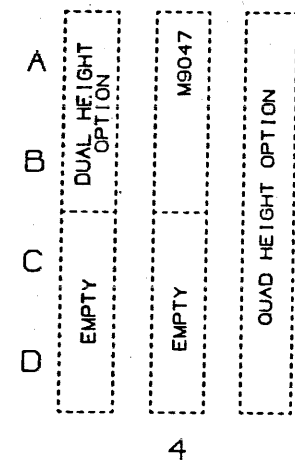
THE MODULE UTILIZATION FOR 13TH SLOT SEE NOTE 9



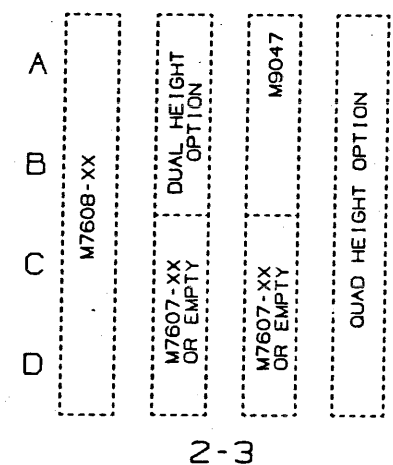
POSSIBLE MODULE UTILIZATIONS FOR SLOTS 5-12 ARE AS FOLLOWS (SEE NOTES 7 AND 8 THIS SHT):



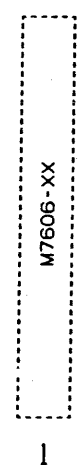
POSSIBLE MODULE UTILIZATIONS FOR SLOT 4 ARE AS FOLLOWS



POSSIBLE MODULE UTILIZATIONS FOR SLOTS 2 AND 3 ARE AS FOLLOWS (SEE NOTES 5, 6, 7 AND 8 THIS SHT):



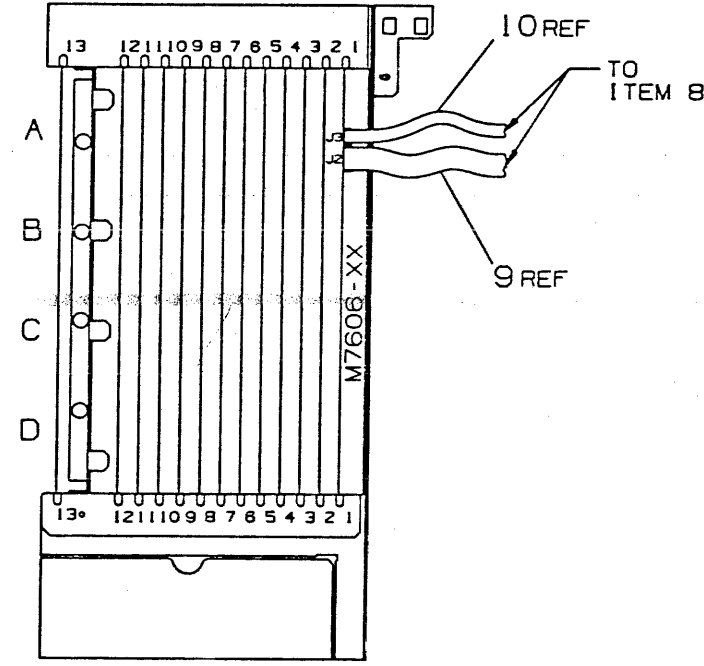
THE MODULE UTILIZATION FOR THE FIRST SLOT IS AS FOLLOWS:



XZ1	XZ2	XZ3	XZ4	Q-BUS (19)	Q-BUS (18)	Q-BUS (17)	Q-BUS (16)	Q-BUS (15)	Q-BUS (14)	Q-BUS (13)	Q-BUS (12)	Q-BUS (11)	Q-BUS (10)	Q-BUS (9)	Q-BUS (8)	Q-BUS (7)	Q-BUS (6)	CD	CD	CD	CD

SEE NOTE 4

SEE NOTES 1, 2 AND 3 THIS SHT



MODULE UTILIZATION

NOTES:

- BACKPLANE VIEWS ARE FROM THE MODULE SIDE
- THE AB ROWS OF SLOTS 1-12 AND THE CD ROWS OF SLOTS 5-12 ARE EACH LABELED "Q-BUS" BECAUSE THEY ARE INTERCONNECTED PER THE Q-BUS SPECIFICATION. THE NUMBER IN PARENTHESIS SHOWS THE PATH OF INTERRUPT AND DMA GRANT CONTINUITY; INCREASING VALUE DENOTES DECREASING PRIORITY.
- THE CD ROWS OF SLOTS 1-4 ARE LABELED "CD" BECAUSE THEY ARE CONNECTED PER THE "CD INTERCONNECT" SPECIFICATION. THIS INTERCONNECT CONNECTS SELECTED SIDE TWO PINS OF A GIVEN SLOT TO SIDE ONE PINS OF THE NEXT SLOT.
- THE BACKPLANE INCLUDES FOUR RESISTOR PACKS IN LOCATIONS XZ1, XZ2, XZ3 AND XZ4. THESE RESISTOR PACKS PROVIDE AN ADDITIONAL 120 OHMS OF TERMINATION TO THE Q-BUS LINES.
- THE SYSTEM MAY CONTAIN UP TO TWO MS630 MEMORY MODULES, LOCATED IN SLOTS 2 AND 3 (A SINGLE MS630 MODULE MUST BE LOCATED IN SLOT 2). A QUAD HEIGHT MS630 (M7608-A(X) OR M7608-B(X)) FILLS THE ENTIRE SLOT. A DUAL HEIGHT MS630 (M7607-A(X)) OCCUPIES THE CD ROWS ONLY.
- IF SLOTS 2 AND 3 (OR SLOT 3) ARE NOT USED FOR MS630 MEMORY MODULE(S), AND ARE NOT REQUIRED FOR Q-BUS OPTIONS, THEN RESERVE THEM (IT) FOR FUTURE MEMORY MODULE EXPANSION WITH M9047 GRANT CONTINUITY CARD(S) IN ROW AB.
- QUAD HEIGHT Q-BUS OPTIONS MAY BE ADDED TO ANY OPEN SLOTS, AND DUAL HEIGHT Q-BUS OPTIONS MAY BE ADDED TO ANY OPEN "Q-BUS" HALF SLOTS. ALL UNUSED "Q-BUS" HALF SLOTS WHICH PRECEED THE LAST OPTION MUST CONTAIN GRANT CONTINUITY MODULES (M9047) TO PASS GRANTS TO MODULES OF A LOWER PRIORITY. UNUSED "CD" HALF SLOTS ARE LEFT VACANT. (NOTES 2 AND 3 IDENTIFY THE "Q-BUS" AND "CD" HALF SLOTS).
- FOR MORE INFORMATION ON BACKPLANE SLOT ASSIGNMENTS, REFER TO THE SYSTEM TECHNICAL MANUAL.
- REF D-AR-7022380-0-DBU FOR MODULE UTILIZATION REQUIREMENTS.

PLOT AT .50

REVISIONS		
CHK	CHANGE NO	REV

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION								
					A2	A3	B2	B3	C2	C3	D2	D3	
1	1	B-DD-M7606-0-0		M7606-AA	MICROVAX II W/1MB,FP,INCLUDES TI	1	1	-	-	-	-	-	-
2	2	B-DD-M7606-0-0		M7606-BA	M7606-AA W/NO FP (CPU,1MB) = M76	-	-	1	1	-	-	-	-
3	3	B-DD-M7606-0-0		M7606-CA	M7606-AA W/256KB MEM (CPU,256KB,	-	-	-	-	1	1	-	-
4	4	B-DD-M7606-0-0		M7606-DA	M7606-AA W/256KB MEM,NO FP = M76	-	-	-	-	-	-	1	1
5	5	K-PL-7022382-0-DBP		7022382-02	BA123-A ACCESSORY KIT	1	1	1	1	1	1	1	1
6	6	B-DD-7022380-0-DBU		7022380-01	BA123-A BASIC ENCLOSURE (120V)	1	-	1	-	1	-	1	-
7	7	B-DD-7022380-0-DBU		7022380-02	BA123-A BASIC ENCLOSURE (240V)	-	1	-	1	-	1	-	1
8	8	B-DD-5416744-0-0		5416744-01	FUNCTION SEL/SLU CONSOLE CONNECT	1	1	1	1	1	1	1	1
9	9	A-PS-1700712-0-0		1700712-02	A WIRE HARN ASSY 20COND 30AWG 20SK	1	1	1	1	1	1	1	1
10	10	A-PS-1700624-0-0		1700624-01	A CABLE ASSY,10COND,FLAT,10(2X05)I	1	1	1	1	1	1	1	1
11	11	A-PS-9010174-0-0		9010174-00	C SCREW,SEMS PAN PHIL 6-	4	4	4	4	4	4	4	4
12	12	D-MD-7431480-0-0		7431480-03	A MEDALLIAN SYSTEM LOGO (630QB)	1	1	1	1	1	1	1	1
13	13	A-PS-9009257-0-0		9009257-02	D RING,RETAINER EXTERNAL FOR .188	2	2	2	2	2	2	2	2
14	14	A-PS-3617880-0-0		3617880-02	LABEL,FCC,CLASS A,PROCESSOR	1	1	1	1	1	1	1	1
15	15	A-PS-3624471-0-0		3624471-01	A LABEL,BUSINESS COMP BA123-A2	1	-	1	-	1	-	1	-
16	16	A-PS-3624471-0-0		3624471-02	A LABEL,BUSINESS COMP BA123-A3	-	1	-	1	-	1	-	1
17	17	A-PS-1700198-0-0		1700198-00	B PWR CORD,TERM 3-18 250	-	REF	-	REF	-	REF	-	REF
18	18	A-PS-1700199-0-0		1700199-00	A PWR CORD,TERM 3 250	-	REF	-	REF	-	REF	-	REF
19	19	A-PS-1700209-0-0		1700209-00	A PWR CORD,TERM 3- .75MM 5A 250	-	REF	-	REF	-	REF	-	REF
20	20	A-PS-1700210-0-0		1700210-01	A PWR CORD,TERM 3- .75MM 250V 6	-	REF	-	REF	-	REF	-	REF
21	21	A-PS-1700310-0-0		1700310-01	A PWR CORD,TERM 3- .75MM 250	-	REF	-	REF	-	REF	-	REF
22	22	A-PS-1700364-0-0		1700364-01	A PWR CORD,TERM 3- .75MM 250V	-	REF	-	REF	-	REF	-	REF
23	23	D-AR-7022380-0-DBU			BA123-A SYSTEM ARRANGEMENT	REF	REF	REF	REF	REF	REF	REF	REF
24	24	B-DD-M9047-0-0		M9047-00	QBUS GRANT CONTINUITY,1ST USED I	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
25	25	A-PS-3617674-0-0		3617674-22	LABEL,SERIAL/POWER,W/UL & CSA MA	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R

REVISION HISTORY		BASIC PART NO: 630QB		DRN: D. RICHARD	DATE: 19-FEB-85	D I G I T A L		
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D: D. HEALY	DATE: 19-MAR-85	TITLE PARTS LIST		
JUN	630QB-ML001	B	SECTION VARIATION INDEX			630QB MICRO VAX II		
			(A) A2,A3,B2,B3,C2,C3, D2,D3			WORLD BOX		
			(B)	DES.ENG: J. NICHOLS	DATE: 19-MAR-85	DOCUMENT NUMBER		
			(C)			SIZE	CODE	NUMBER
			(D)	RESP.ENG.: J. NICHOLS	DATE: 19-MAR-85	K	PL	630QB-0-DBP
			(E)					REV
			(F)	MFG.ENG.: K. WORTMAN	DATE: 19-MAR-85	RELEASE DATE: 07-MAY-85		
				ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
				D-UA-630QB-0-DBU	B-DD-630QB-0-DBU	ML863B.PLS		14

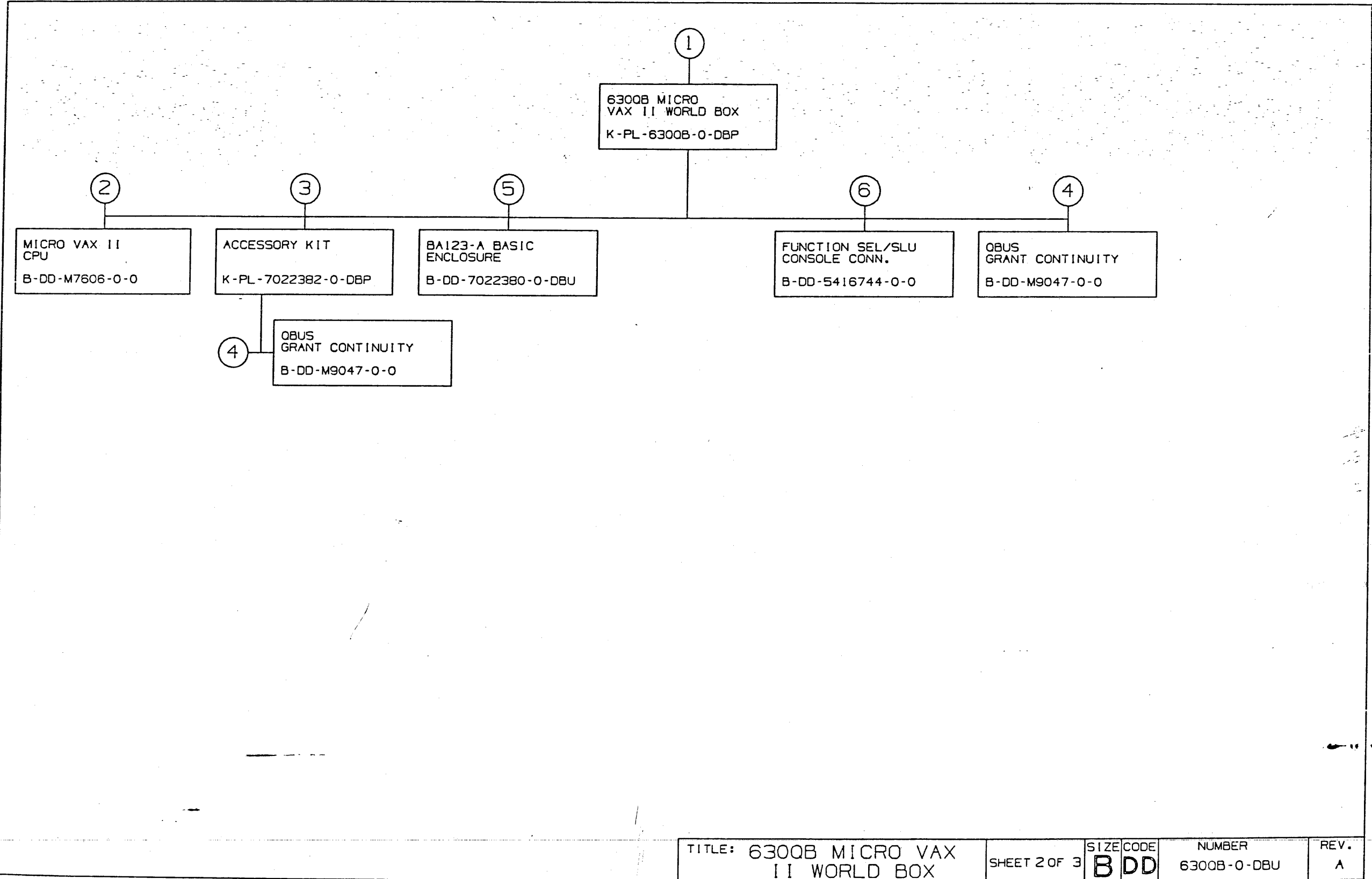
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION								
					A2	A3	B2	B3	C2	C3	D2	D3	
VARIATION REVISION LEVEL:					A2	A2	A2	A2	A2	A2	A2	A2	A2

26 NOTE: DEPENDING ON RAM VENDOR, MODULE MAY BE STAMPED AD/AH, BC/BH, CC/CH, DC/DH

D	I	G	I	T	A	L	TITLE	6300B MICRO VAX II WORLD BOX	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	6300B-0-DBP	B





TITLE: 6300B MICRO VAX II WORLD BOX	SHEET 2 OF 3	SIZE CODE <b>B DD</b>	NUMBER 6300B-0-DBU	REV. A
-------------------------------------	--------------	--------------------------	-----------------------	-----------

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP-02071-01	6300B MICRO VAX II WORLD BOX (MP)	-				
	B-TC-6300B-0-DBU	6300B MICRO VAX II WORLD BOX (TC)	-				
	D-UA-6300B-0-DBU	6300B MICRO VAX II WORLD BOX	E/M				
	K-PL-6300B-0-DBP	6300B MICRO VAX II WORLD BOX (PL)	E/M				
	A-PS-1700712-0-0	CABLE ASSY, 20 PIN	E/M				
	A-PS-1700624-0-0	CABLE CONSOLE BACKPLANE	E/M				
	D-MD-7431480-0-DBU	MEDALLIAN SYSTEM LOGO (6300B)	E/M				
	A-PS-3617880-0-0	LABEL, FCC CLASS A PROCESSOR	M				
	A-PS-3624471-0-0	LABEL, BUSINESS COMPUTER	M				
2	B-DD-M7606-0-0	MICRO VAX II CPU	E/M				
3	K-PL-7022382-0-DBP	ACCESSORY KIT	E/M				
	A-PS-1700301-0-0	CABLE ASSY, 7 COND	E/M				
	A-PS-3622092-0-0	LABEL, LCPS CONFIGURATION	M				
	A-PS-3624251-0-0	LABEL, MULTI LINGUAL F. PANEL	M				
4	B-DD-M9047-0-0	0 BUS GRANT CONTINUITY CARD	E/M				
5	B-DD-7022380-0-DBU	BA123-A BASIC ENCLOSURE	E/M				
6	B-DD-5416744-0-0	FUNCTION SEL/SLU CONSOLE CONN.	E/M				


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



TITLE: 6300B MICRO VAX  
- II WORLD BOX

SHEET 3 OF 3 SIZE CODE BDD NUMBER 6300B-0-DBU

REV. A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																																																																																																																																																																								
				B1	C1	D1	E1	F1	H2	H2																																																																																																																																																																		
		M7606	KA630	A	A	B	B	B	B																																																																																																																																																																			
D-UA-M7606-0-0	1		KA630 UNIT ASSEMBLY	A	B	C	D	E	F	H																																																																																																																																																																		
K-PL-M7606-0-DBP	2		KA630 PARTS LIST	E	E	E	E	E	E	E																																																																																																																																																																		
K-PC-M7606-0-DBJ	1		P.C. DESIGN DATA BASE	E1	E1	E1	E1	E1	E1	E1																																																																																																																																																																		
		5016523-01	ETCHED CIRCUIT BOARD	A	A	A	A	A	A	A																																																																																																																																																																		
B-DD-5016523-0-0	1		DRAWING DIRECTORY	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-1	1		M7606 DRAWING DIRECTORY	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-2	1		MICROVAX II SYSTEM	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-3	1		KA630-UVAX ON Q22 BUS	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-4	1		UVAX & FPU	-	B	B	B	B	B	B																																																																																																																																																																		
D-CS-M7606-0-5	1		UVAX & FPU PINOUTS	-	-	-	-	A	A																																																																																																																																																																			
B-CS-M7606-0-6	1		ADDRESS LATCH/LOCAL MEMORY DECODE	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-7	1		MEMORY SUBSYSTEM	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-8	1		Q22 BUS INTERFACE GATE ARRAY	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-9	1		Q22 BUS INTERFACE GATE ARRAY	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-10	1		DC380 PAD ASSIGNMENT TOP VIEW LL5320 IN 144 PIN GRID ARRAY	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-11	1		REFRESH LOGIC/COUNTER	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-12	1		DIVIDE BY 12	-	B	B	B	B	B	B																																																																																																																																																																		
B-CS-M7606-0-13	1		SYNCHRONOUS 3 BIT COUNTER	-	B	B	B	B	B	B																																																																																																																																																																		
<b>NOTES:</b>																																																																																																																																																																												
NOTE: MODULE PART REV H' WAS USED FOR VAXSTATION FIELD UPGRADE KIT ONLY. M7606 ECO-00006 REWORKED VARIATION M7606 AH TO EITHER M7606-Z (NEW NEC) M7606-ZP (MITSUBIRSHI) M7606 OR M7606-ZF (HITACHI). THERE WAS NO PART REV CHANGE.																																																																																																																																																																												
				<table border="1"> <thead> <tr> <th colspan="2">REVISION HISTORY</th> <th>REV.</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>H</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <th>DATE</th> <th>ECO NO.</th> <th></th> <th>INIT</th> <th>MLO01</th> <th>MLO02</th> <th>MLO03</th> <th>MLO04</th> <th>MLO05</th> <th>MLO06</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>5/84</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5/85</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6/85</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7/85</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8/85</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1/86</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3/86</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																REVISION HISTORY		REV.	A	B	C	D	E	F	H								DATE	ECO NO.		INIT	MLO01	MLO02	MLO03	MLO04	MLO05	MLO06								5/84																	5/85																	6/85																	7/85																	8/85																	1/86																	3/86																
REVISION HISTORY		REV.	A	B	C	D	E	F	H																																																																																																																																																																			
DATE	ECO NO.		INIT	MLO01	MLO02	MLO03	MLO04	MLO05	MLO06																																																																																																																																																																			
5/84																																																																																																																																																																												
5/85																																																																																																																																																																												
6/85																																																																																																																																																																												
7/85																																																																																																																																																																												
8/85																																																																																																																																																																												
1/86																																																																																																																																																																												
3/86																																																																																																																																																																												
<p>THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS.</p> <p>1984</p>				 <table border="1"> <tr> <td>DRN.</td> <td>D.DROZD</td> <td>DATE</td> <td>5/17/84</td> <td colspan="2">TITLE</td> <td colspan="2">KA630</td> </tr> <tr> <td>CHK'D</td> <td>E.LANDRY</td> <td>DATE</td> <td>5/17/84</td> <td colspan="4">DOCUMENT NUMBER</td> </tr> <tr> <td>DES. ENG.</td> <td>B.MASKAS</td> <td>DATE</td> <td>5/17/84</td> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td> </tr> <tr> <td>RESP. ENG.</td> <td>B.MASKAS</td> <td>DATE</td> <td>5/17/84</td> <td>B</td> <td>DD</td> <td>M7606-0-0</td> <td>H</td> </tr> <tr> <td>MFG. ENG.</td> <td>B.SCHULTE</td> <td>DATE</td> <td>9/24/84</td> <td colspan="2">SHEET 1 OF 4</td> <td colspan="2"></td> </tr> </table>																DRN.	D.DROZD	DATE	5/17/84	TITLE		KA630		CHK'D	E.LANDRY	DATE	5/17/84	DOCUMENT NUMBER				DES. ENG.	B.MASKAS	DATE	5/17/84	SIZE	CODE	NUMBER	REV	RESP. ENG.	B.MASKAS	DATE	5/17/84	B	DD	M7606-0-0	H	MFG. ENG.	B.SCHULTE	DATE	9/24/84	SHEET 1 OF 4																																																																																																																				
DRN.	D.DROZD	DATE	5/17/84	TITLE		KA630																																																																																																																																																																						
CHK'D	E.LANDRY	DATE	5/17/84	DOCUMENT NUMBER																																																																																																																																																																								
DES. ENG.	B.MASKAS	DATE	5/17/84	SIZE	CODE	NUMBER	REV																																																																																																																																																																					
RESP. ENG.	B.MASKAS	DATE	5/17/84	B	DD	M7606-0-0	H																																																																																																																																																																					
MFG. ENG.	B.SCHULTE	DATE	9/24/84	SHEET 1 OF 4																																																																																																																																																																								

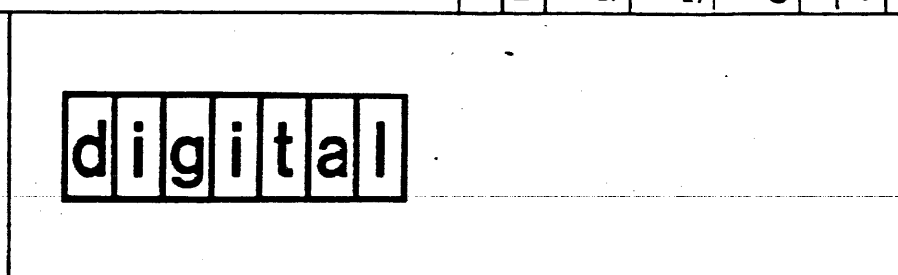
DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				-	B	B	B	B	B	B									
B-CS-M7606-0-14	1		VECTOR HACK	-	B	B	B	B	B	B									
B-CS-M7606-0-15	1		INVERTING MUX LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-16	1		4 to 1 MUX	-	B	B	B	B	B	B									
B-CS-M7606-0-17	1		Q-BUS SUPPORT LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-18	1		BLK MD CTR LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-19	1		TOGGLE FLOP	-	B	B	B	B	B	B									
B-CS-M7606-0-20	1		Q-BUS SUPPORT LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-21	1		Q-BUS SUPPORT LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-22	1		Q-BUS SUPPORT LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-23	1		Q-BUS SUPPORT LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-24	1		POWER BUFFER MACRO	-	B	B	B	B	B	B									
B-CS-M7606-0-25	1		BIDIRECT BUFFER	-	B	B	B	B	B	B									
B-CS-M7606-0-26	1		MUX LOGIC	-	B	B	B	B	B	B									
B-CS-M7606-0-27	1		TRANSLATION MAP GROUP	-	B	B	B	B	B	B									
B-CS-M7606-0-28	1		KA630 Q-BUS INTERFACE	-	B	B	B	B	B	B									
B-CS-M7606-0-29	1		UVAX INTERFACE GATE ARRAY	-	B	B	B	B	B	B									
B-CS-M7606-0-30	1		DC379 PAD ASSIGNMENT TOP VIEW LL5320 IN 144 PIN GRIP ARRAY	-	B	B	B	B	B	B									
B-CS-M7606-0-31	1		UVAX INTERFACE GATE ARRAY DATA PATH	-	B	B	B	B	B	B									
B-CS-M7606-0-32	1		UVDAL I/O BUFFERS, ADDR LATCHES	-	B	B	B	B	B	B									

**NOTES:**

REVISION HISTORY		A	B	C	D	E	F	H										
DATE	ECO NO.	INIT	MLO01	MLO02	MLO03	MLO04	MLO05	MLO06										
5/84																		
5/85																		
6/85																		
7/85																		
8/85																		
1/86																		
3/86																		

THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS.

1984



DRN. D. DROZD	DATE 5/17/84	TITLE	
CHK'D E. LANDRY	DATE 5/17/84	KA630	
DES. ENG. B. MASKAS	DATE 5/17/84	DOCUMENT NUMBER	
RESP. ENG. B. MASKAS	DATE 5/17/84	SIZE B	CODE DD
MFG. ENG. B. SCHULTE	DATE 9/24/84	NUMBER M7606-0-0	REV. H
		SHEET 2 OF 4	

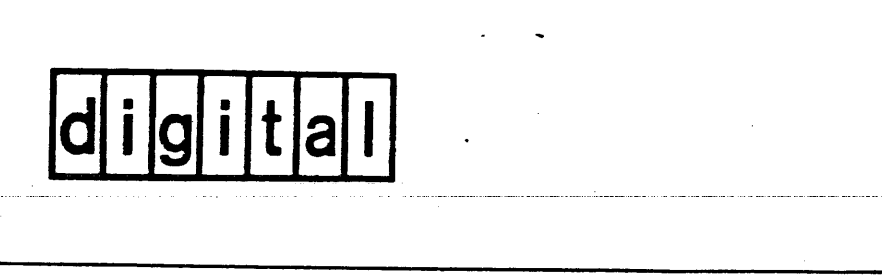


DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				-	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
B-CS-M7606-0-33	1		ADDRESS DECODER	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-34	1		EXCEPTIONS AND INTERRUPTS	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-35	1		UVAX INPUTS AND I/O PINS	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-36	1		BOOT/DIAG REG., MEM ERR ADDR REG.	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-37	1		EPR BUS, X DAL BUS	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-38	1		INTERNAL DATA BUSES	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-39	1		MISC. CONTROL STROBES	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-40	1		RESET COUNTER, POWER UP/DOWN CNTRL	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-41	1		MEMORY SYSTEM ERROR REGISTER	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-42	1		TIME OF YEAR (TOY) CLOCK	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-43	1		CONSOLE SERIAL LINE INTERFACE	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-44	1		LEDS AND CONFIGURATION CONNECTOR	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-45	1		DECOUPLING CAPACITORS	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-46	1		KA630 STATE MACHINES	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-47	1		UVAX CYCLE CONTROLLER	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-48	1		MEMORY SEQUENCER	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-49	1		MEMORY SEQUENCER SUPPORT	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
B-CS-M7606-0-50	1		Q22 BUS STATE MACHINES	-	B	B	B	B	B	B	B	B	B	B	B	B	B		
D-CS-M7606-0-51	1		KA630 MEMORY ARBITER LISTING	-	-	-	-	-	-	A	A								

**NOTES:**

REVISION HISTORY		REV.	A	B	C	D	E	F	H
DATE	ECO NO.	INIT	MLO01	MLO02	MLO03	MLO04	MLO05	MLO06	
5/84		INIT							
5/85		MLO01							
6/85		MLO02							
7/85		MLO03							
8/85		MLO04							
1/86		MLO05							
3/86		MLO06							

THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1984



DRN. D.DROZD	DATE 5/17/84	TITLE	
CHK'D E.LANDRY	DATE 5/17/84	KA630	
DES. ENG. B.MASKAS	DATE 5/17/84	DOCUMENT NUMBER	
RESP. ENG. B.MASKAS	DATE 5/17/84	SIZE B	CODE DD
MFG. ENG. B.SCHULTE	DATE 9/24/84	NUMBER M7606-0-0	REV H
		SHEET 3	OF 4

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				-	B	B	B	B	B	B									
B-CS-M7606-0-52	1		KA630 MEMORY SYSTEM ARBITER STATE FLOW DIAGRAMS	-	B	B	B	B	B	B									
B-CS-M7606-0-53	1		KA630 MEMORY SYSTEM ARBITER STATE FLOW DIAGRAMS	-	B	B	B	B	B	B									
D-CS-M7606-0-54	1		KA630 LOCAL I/O CONTROL MACHINE	-	-	-	-	-	A	A									
			UL TESTING	-	-	-	-	-											
B-CS-M7606-0-55	1		KA630 LOCAL I/O BUS CONTROL	-	B	B	B	B	B	B									
D-CS-M7606-0-56	1		KA630 Q-BUS ARBITRATION CONTROL MACHINE LISTING	-	-	-	-	-	A	A									
B-CS-M7606-0-57	1		Q-BUS ARBITRATION CONTROLLER DETAILED CONTROL FLOW DIAGRAM	-	B	B	B	B	B	B									
D-CS-M7606-0-58	1		Q22 BUS MASTER CONTROL MACHINE LISTING	-	-	-	-	-	A	A									
B-CS-M7606-0-59	1		Q22 BUS MASTER CONTROL MACHINE FLOW DIAGRAM	-	B	B	B	B	B	B									
D-CS-M7606-0-60	1		Q22 BUS SLAVE CONTROL MACHINE LISTING	-	-	-	-	-	A	A									
B-CS-M7606-0-61	1		Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM	-	B	B	B	B	B	B									
B-CS-M7606-0-62	1		Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM	-	B	B	B	B	B	B									
D-CS-M7606-0-63	1		IKKL RAS DECODE FROM (ETS) LISTING	-	-	-	-	-	A	A									
D-CS-M7606-0-64	1		PALASM LISTING FOR PALISLSA DEVICES	-	-	-	-	-	A	A									
D-CS-M7606-0-65	1		MNEMONIC DICTORY	-	-	-	-	-	A	A									
K-DO-M7606-0-0	24		M7606 CROSS REF LIST	-	A	A	A	A	A	A									

**NOTES:**

REVISION HISTORY		A	B	C	D	E	F	H									
DATE	ECO NO.	INIT	MLO01	MLO02	MLO03	MLO04	MLO05	MLO06									
5/84																	
5/85																	
6/85																	
7/85																	
8/85																	
1/86																	
3/86																	

THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS.

1984



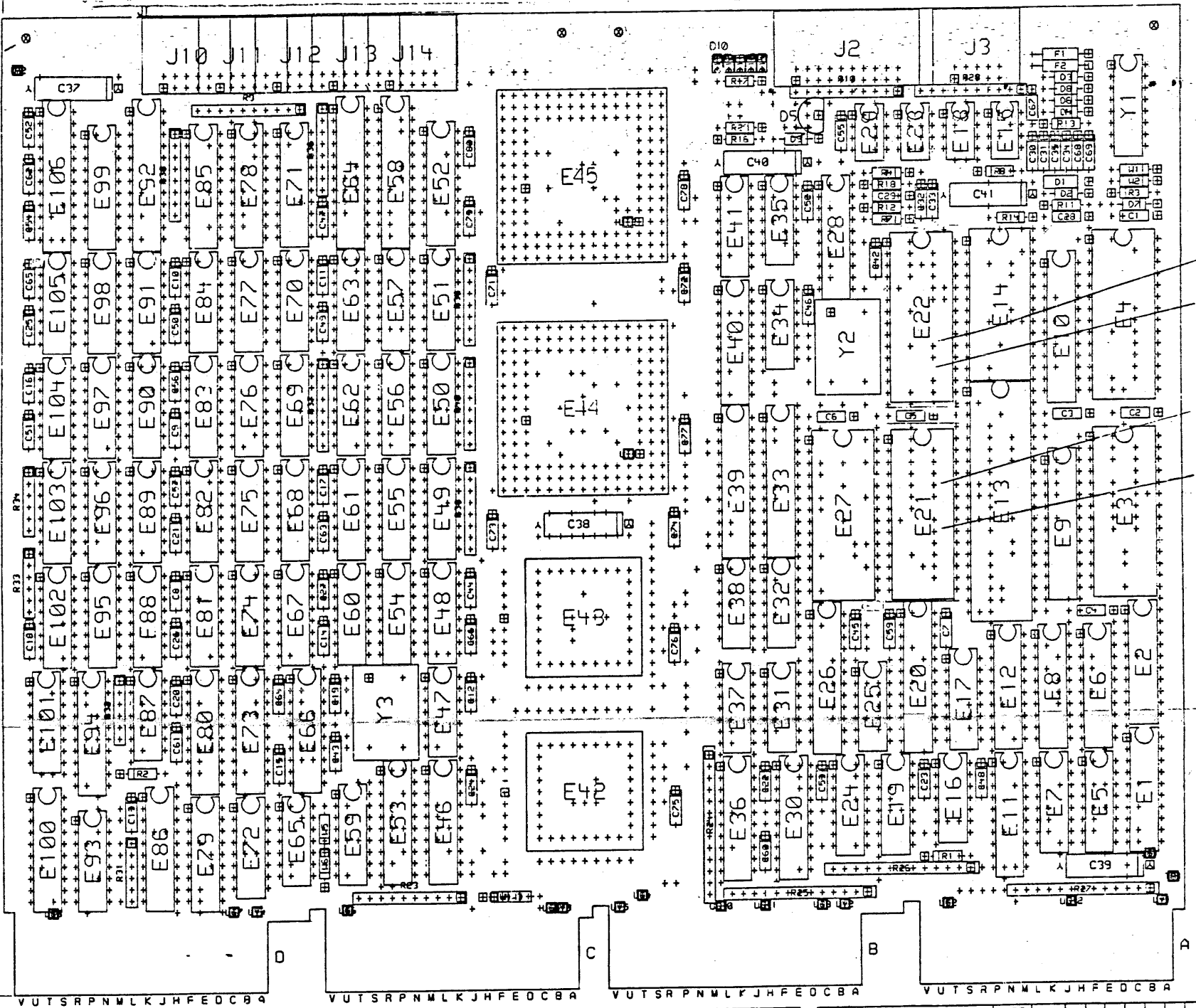
DRN. D. DROZD	DATE 5/17/84	TITLE	
CHK'D E. LANDRY	DATE 5/17/84	KA630	
DES. ENG. B. MASKAS	DATE 5/17/84	DOCUMENT NUMBER	
RESP. ENG. B. MASKAS	DATE 5/17/84	SIZE B	CODE DD
MFG. ENG. B. SCHULTE	DATE 9/24/84	NUMBER M7606-0-0	REV H
		SHEET 4 OF 4	

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 Copyright © 1984 DIGITAL EQUIPMENT CORPORATION

**REWORK INSTRUCTIONS**

- 1. COMPONENT DELETES
- 2-1 DELETE E21 P/N 23035E6-00
- 2-2 DELETE E22 P/N 23034E6-00
- 2. COMPONENT ADDS.
- 2-3 DELETE E21 P/N 23063E6-00
- 2-4 DELETE E22 P/N 23062E6-00

94  
(QTY. 4)



NOTES: 1. NOT INSTALLED

STEP	→ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHG	CHANGE NO	REV
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8

ETCH REV.	E1
-----------	----

SIGNATURES	DATE	digital
DRN		
CHK'D		TITLE
MECH. ENG.		A-B-C-D
PROJ. ENG.		
PROD. MGR.		
SCALE		SIZE CODE
SHT.	OF	NUMBER
NEXT HIGHER ASSY.		UAM7606
		REV
		B

1 MS#

KA630-AA, -AB, -AC, -AD (M7606) DRAWING DIRECTORY

DATA PATH

- 0 MICROVAX II SYSTEM
- 1 KA630 - uVAX on Q22 Bus
  - 1.1 uVAX & FPU
    - 1.1.1 uVAX & FPU PINOUTS
  - 1.2 ADDRESS LATCH/LOCAL MEMORY DECODE
  - 1.3 Memory Subsystem
  - 1.4 Q22 Bus Interface Gate Array
    - 1.4.1-1.4.2, 1.4.1.1-1.4.1.9
  - 1.5 Translation Map Group
  - 1.6 KA630 QBUS INTERFACE
  - 1.7 uVAX Interface Gate Array
    - 1.7.1-1.7.2, 1.7.2.1-1.7.2.10
  - 1.8 TOY CLOCK
  - 1.9 Console Serial Line Interface
  - 1.10 LEDS and Configuration Connector
  - 1.11 Decoupling Capacitors

CONTROL

- 2 KA630 State Machines
  - 2.1 uVAX Cycle Controller
    - 2.1.1 MEMORY SEQUENCER
    - 2.1.2 MEMORY SEQUENCER SUPPORT
  - 2.2 Q22 BUS STATE MACHINES

MISC.

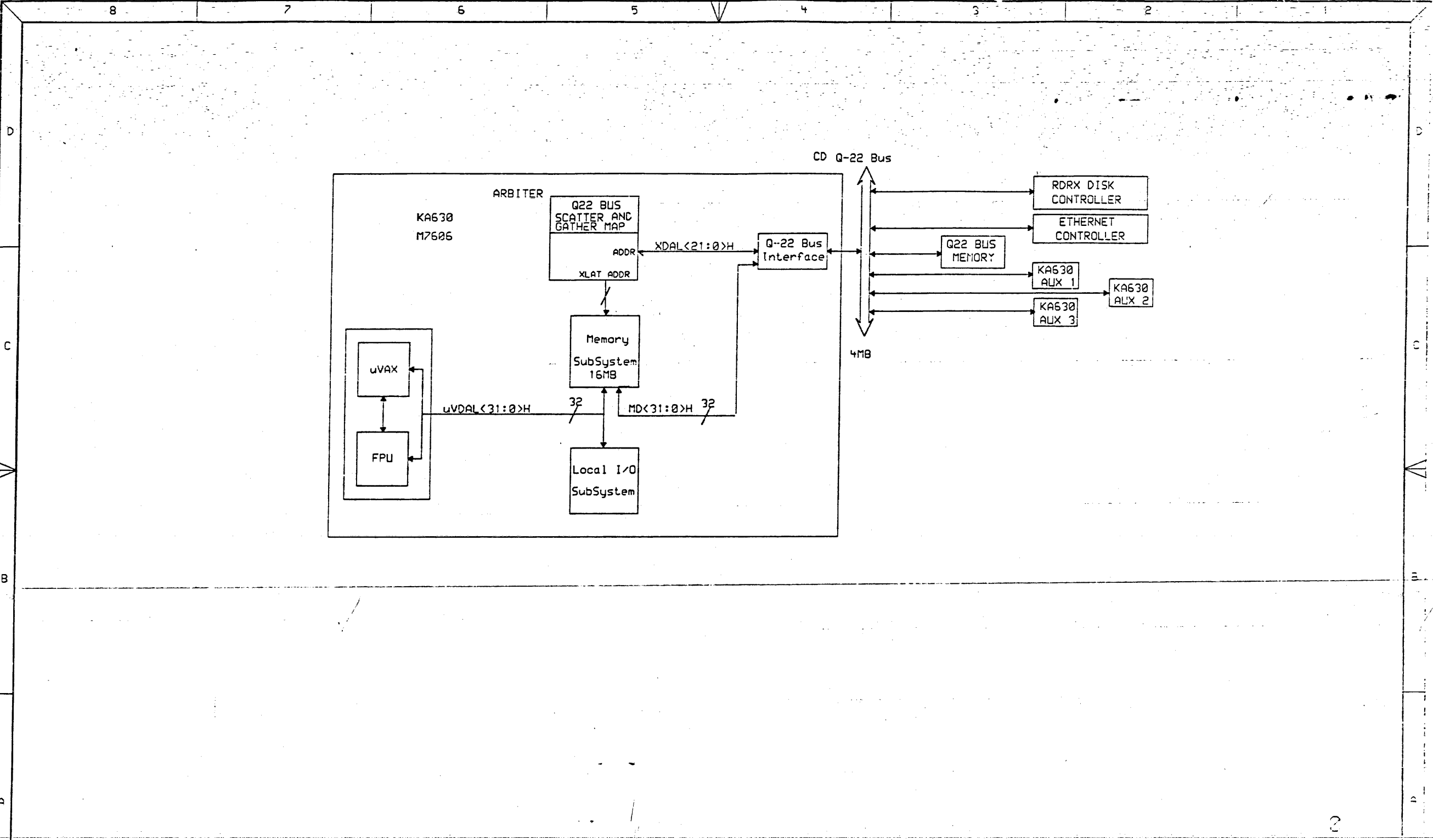
- 3 KA630 MEMORY ARBITER LISTING
  - 3.1-3.2 KA630 MEMORY ARBITER FLOW DIAGRAM
- 4 KA630 LOCAL I/O CONTROL MACHINE LISTING
  - 4.1 KA630 LOCAL I/O CONTROL MACHINE FLOW DIAGRAM
- 5 Q22 BUS ARBITRATION CONTROL MACHINE LISTING
  - 5.1 Q22 BUS ARBITRATION CONTROL MACHINE FLOW DIAGRAM
- 6 Q22 BUS MASTER CONTROL MACHINE LISTING
  - 6.1 Q22 BUS MASTER CONTROL MACHINE FLOW DIAGRAM
- 7 Q22 BUS SLAVE CONTROL MACHINE LISTING
  - 7.1-7.2 Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM
- 8 1KX4 RAS DECODE PROM (E79) LISTING
- 9 PALASM LISTINGS FOR PAL16L8A DEVICES
- 10 MNEMONIC DICTIONARY

DRAWING  
 TITLE=DIRECTORY  
 ABBREV=DIRECT  
 CIRCUIT+TYPE=DOCUMENTATION  
 LAST+MODIFIED=Sun Dec 9 16:50:34 1984

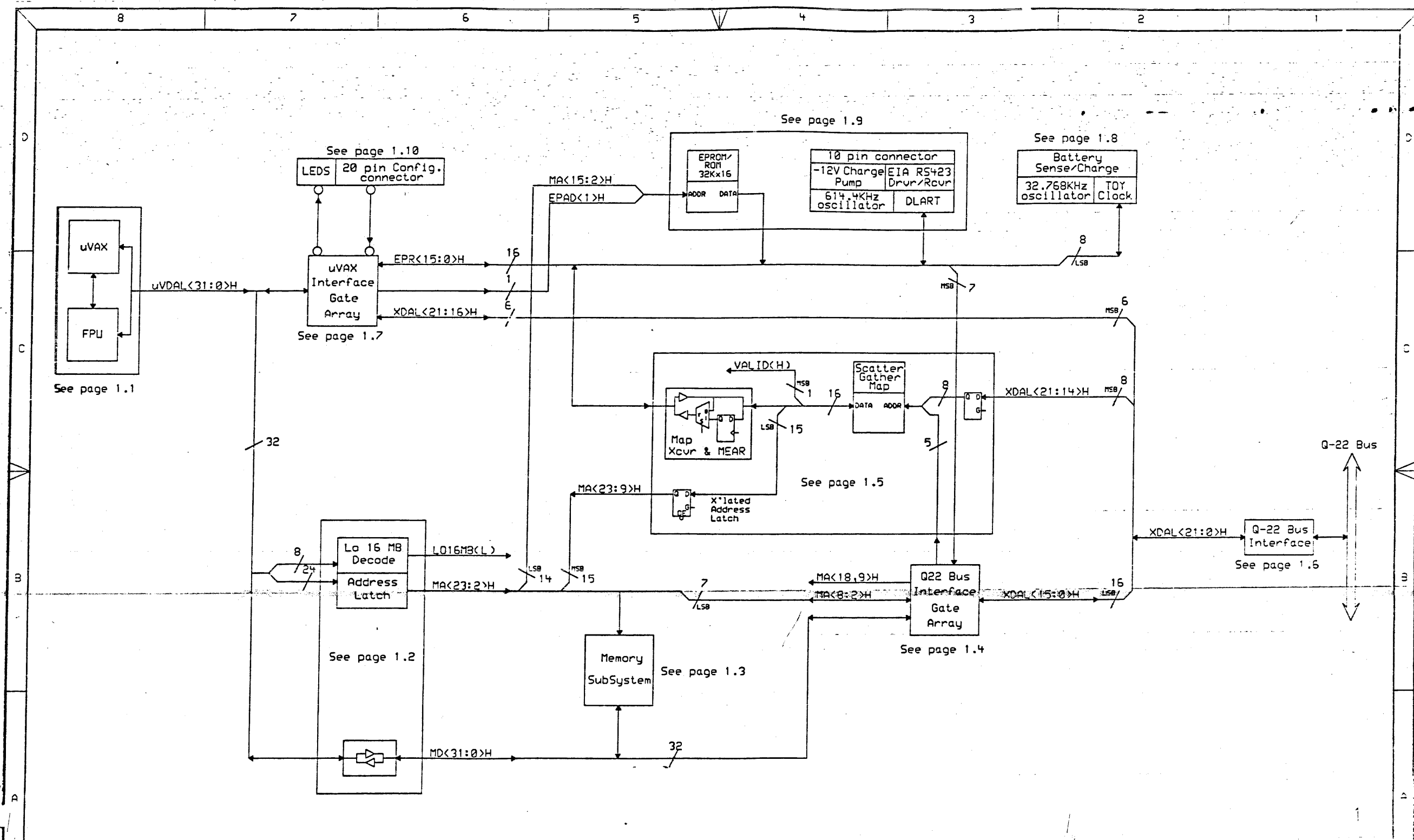
DEFINE  
 X+FIRST=0  
 X+STEP=SIZE

REVISION	1	Joe M. Miller
CHK/CHANGE NO/REV		
M7606/M7606 B		
JOE MULLIN		

digital	DRN. MASKAS & McNameara 18-DEC-83	DATE ENG. MASKAS & McNameara 18-DEC-83	DATE TITLE: M7606 DRAWING DIRECTORY
USRA:	TOP DOCUMENT NUMBER:	SIZE/CODE: 2/CS	NUMBER: M7606-0-11



*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION	REVISION HISTORY REV. IECO NUMBER DATE A 1 27-APR-84 B 2 27-APR-84	DRAWING TITLE=KASYSYSTEM ABBREV=kasystem CIRCUIT+TYPE=kag32+processor LAST+MODIFIED=Sun Oct 7 18:10:51 1984	DEFINE X+FIRST=0 X+STEP=SIZE	digital	DRN: BARRY MASKAS CHK'D: BARRY MASKAS	DATE 27-APR-84 DATE 27-APR-84	ENG: BARRY MASKAS SHEET 1 OF 1 NEXT HIGHER ASSEMBLY:	DATE 27-APR-84 TITLE: MICROVAX II SYSTEM	SIZE CODE CS NUMBER M7606-0-01 REV. 1
	COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION								



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	TECO NUMBER	DATE
1	B	3-10-84

**DRAWING**  
 TITLE=K0Q32  
 ABBREV=kdq32  
 CIRCUIT+TYPE=kdq32+processor  
 LAST\*MODIFIED=Fri Oct 12 11:27:57 1984

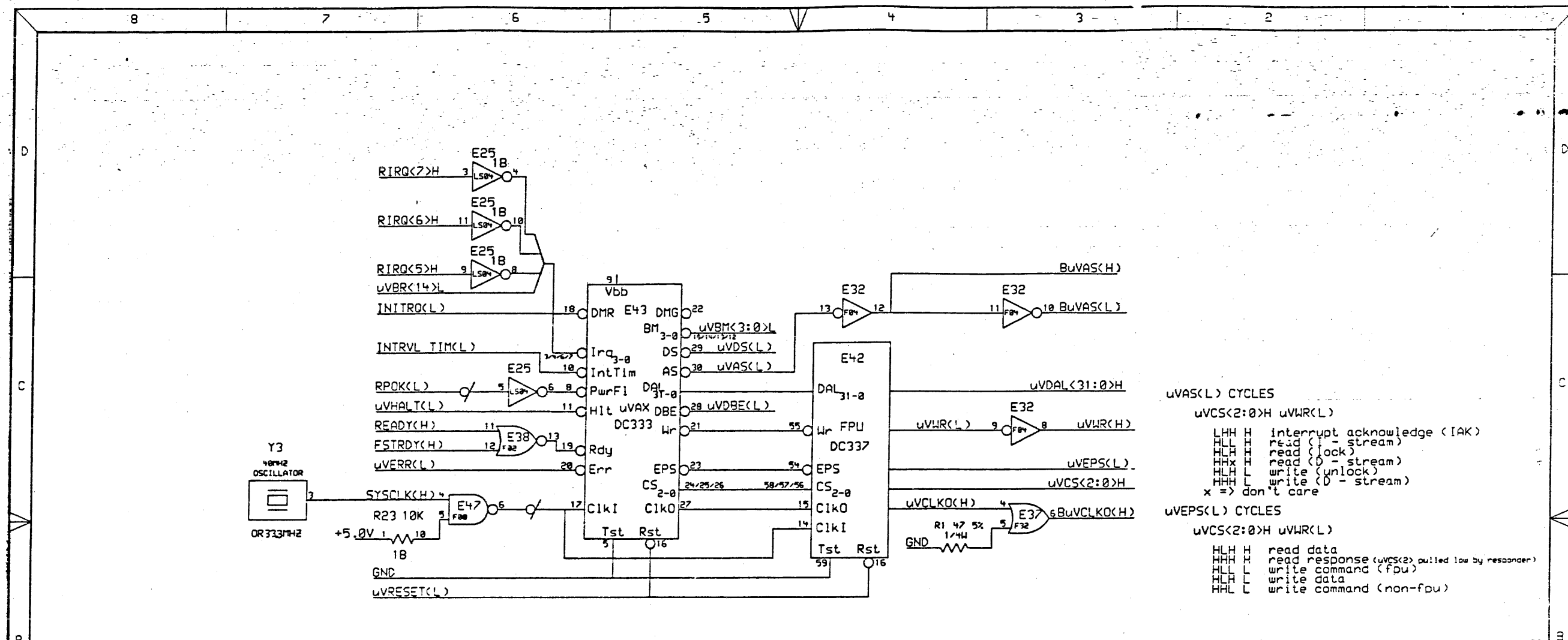
**DEFINE**  
 X\*FIRST=0  
 X\*STEP=SIZE

**digital**

DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1 OF 1	

NEXT HIGHER ASSEMBLY: —

TITLE: KA630 - uVAX on Q22 Bus	SIZE D	CODE 05	NUMBER M7626 -2 -3	REV 3
-----------------------------------	-----------	------------	-----------------------	----------



UVAS<L> CYCLES

uVCS<2:0>H uVVR<L>

LHH H interrupt acknowledge (IAK)

HLL H read (stream)

HLH H read (lock)

HLX H read (stream)

HLH L write (unlock)

HHH L write (stream)

x => don't care

uVEPS<L>

uVCS<2:0>H

uVCLKO<H>

uVCLKO<H>

uVCS<2:0>H uVVR<L>

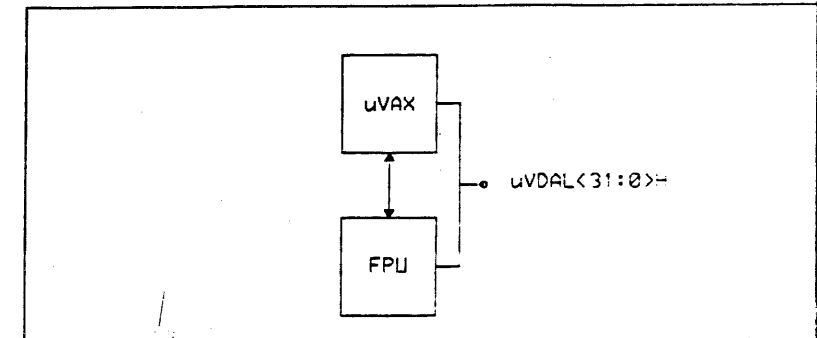
HLH H read data

HHH H read response (uVCS<2> pulled low by responder)

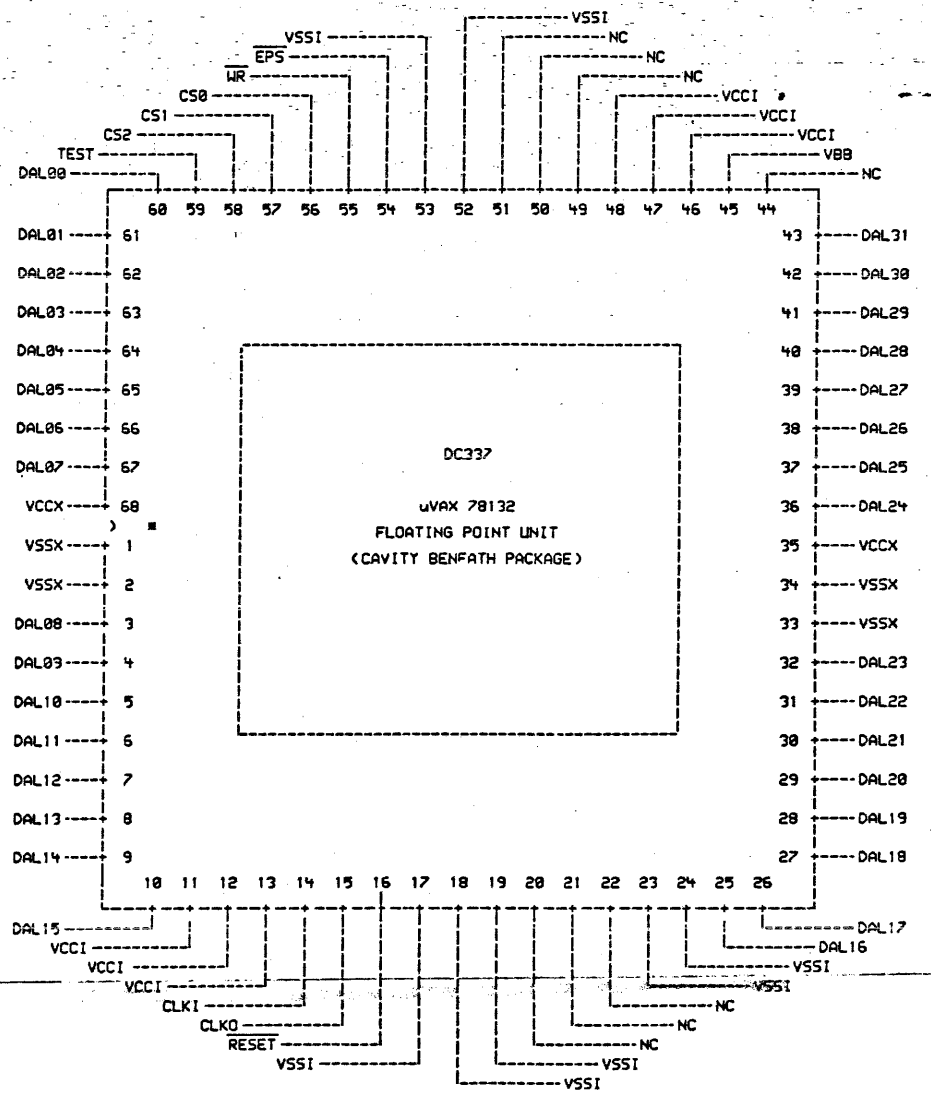
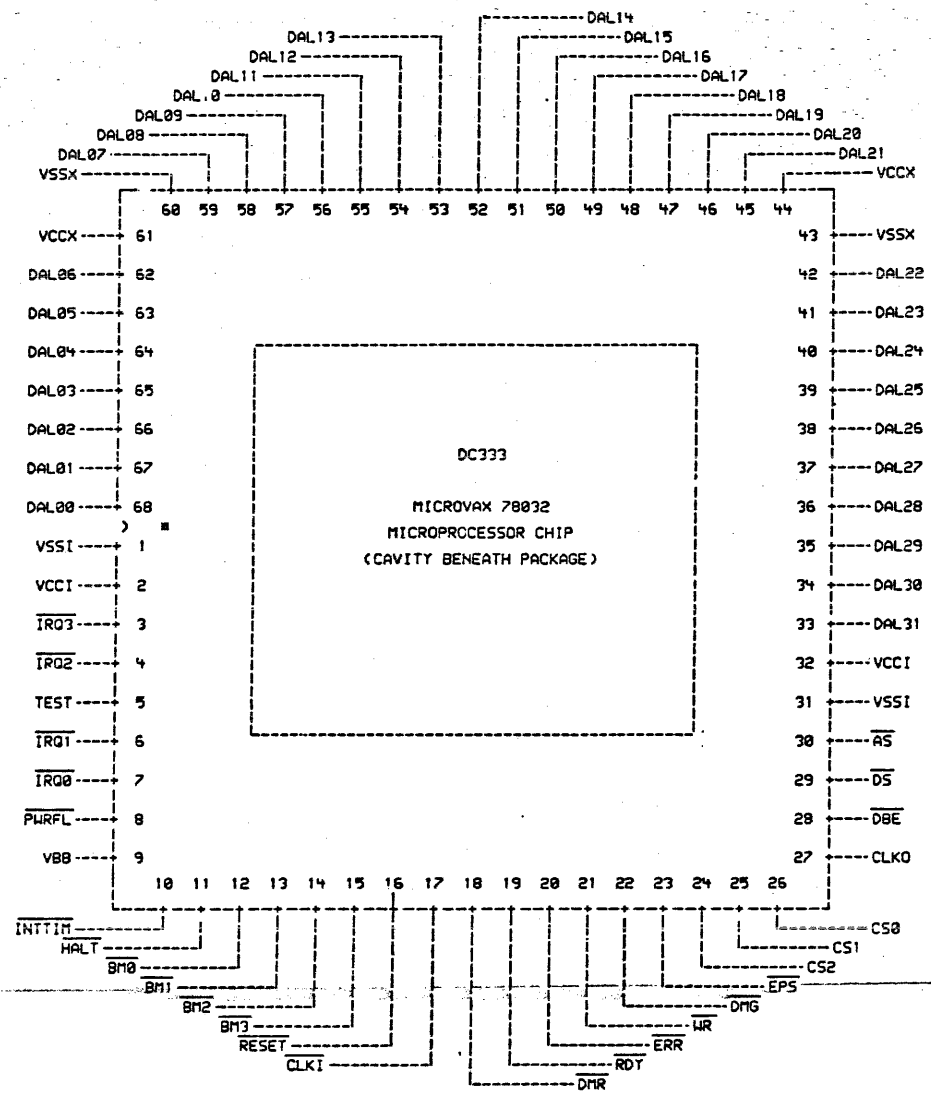
HLH L write command (fpu)

HLH L write data

HHL L write command (non-fpu)



*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION	REVISION HISTORY REV TECO NUMBER DATE B MACE MCO 1/18/84	DRAWING TITLE=UVAX ABBREV=UVAX+FPU CIRCUIT+TYPE=UVAX/FPU LAST*MODIF:ED=Fri Nov 9 18:39:57 1984	DEFINE X+FIRST=0 X+STEP=SIZE	digital	DRN: BARRY MASKAS DATE 3-OCT-84	ENG: BARRY MASKAS DATE 3-OCT-84	TITLE: UVAX & FPU
	SHEET 1 OF 1 NEXT HIGHER ASSEMBLY:	SIZE CODE D 105	NUMBER 17526 -2 -1	FE. B			



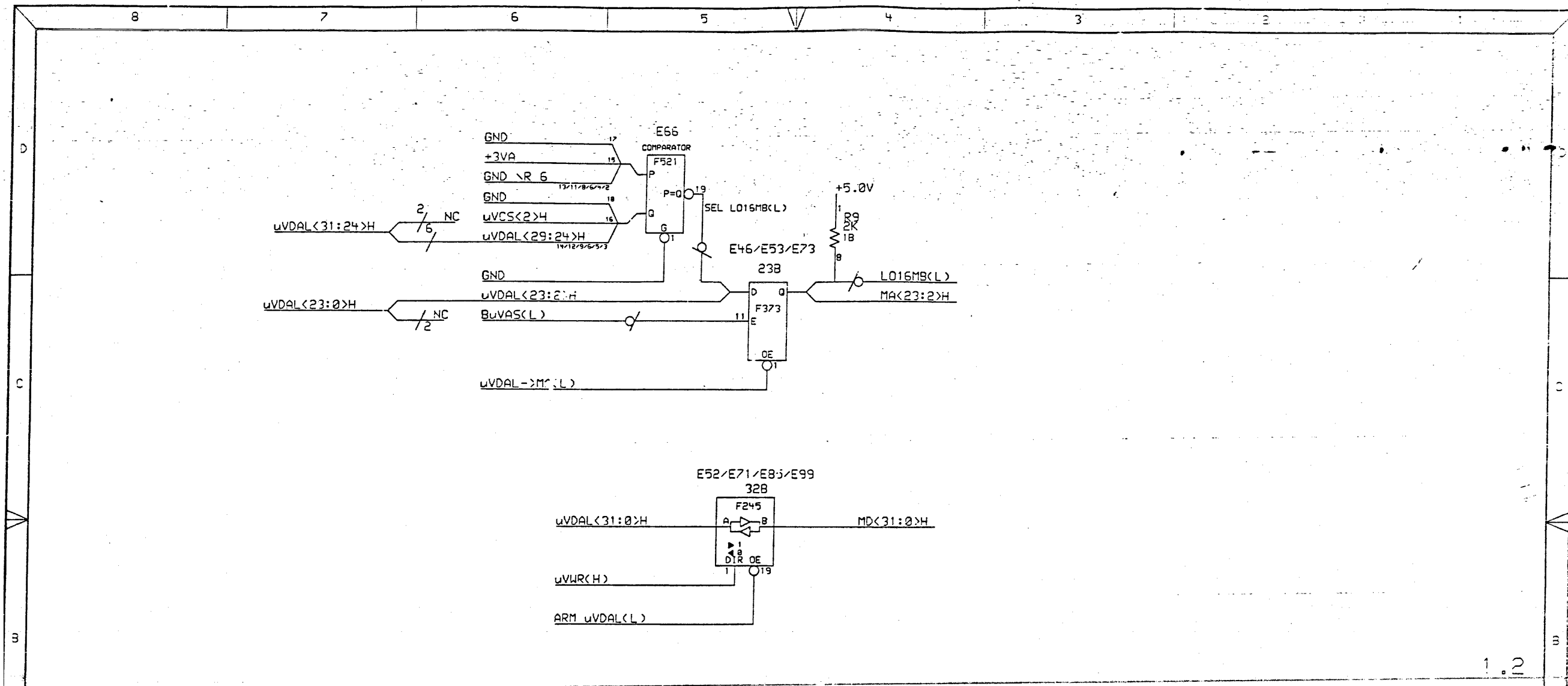
1.1.1

REV. A  
 NUMBER 117606-0-5  
 SIZE CODE D CS

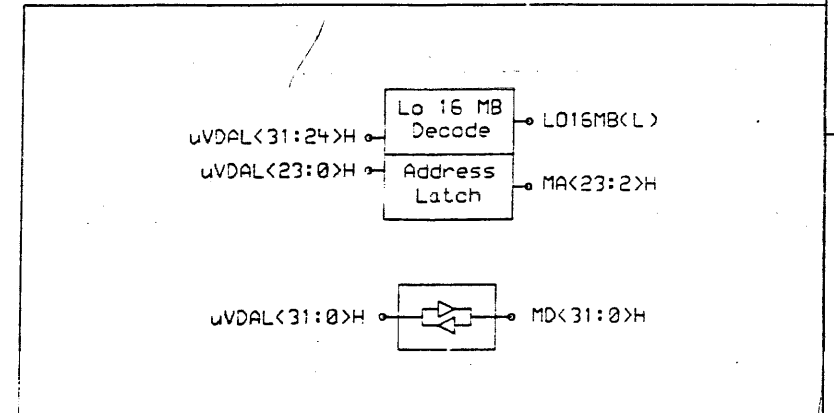
REVISIONS	
CHK	CHANGE NO. REV

digital	DRW. J. J. J.	DATE 12-20-85	ENG. R. MCNAMARA	DATE 12-20-85	TITLE: UVAX & FPU PINOUTS
	CHK'D R. MCNAMARA	DATE 12-20-85	BOARD LOCATION: 1 OF 1	SHEET 1 OF 1	
SUDCOM: (BOWEN)DC333.DRW 11-JUL-85 12:55 NEXT HIGHER ASSEMBLY:					SIZE CODE D CS
FIRST USED ON OPTION/MODEL:					NUMBER M7606-0-5
					REV. A

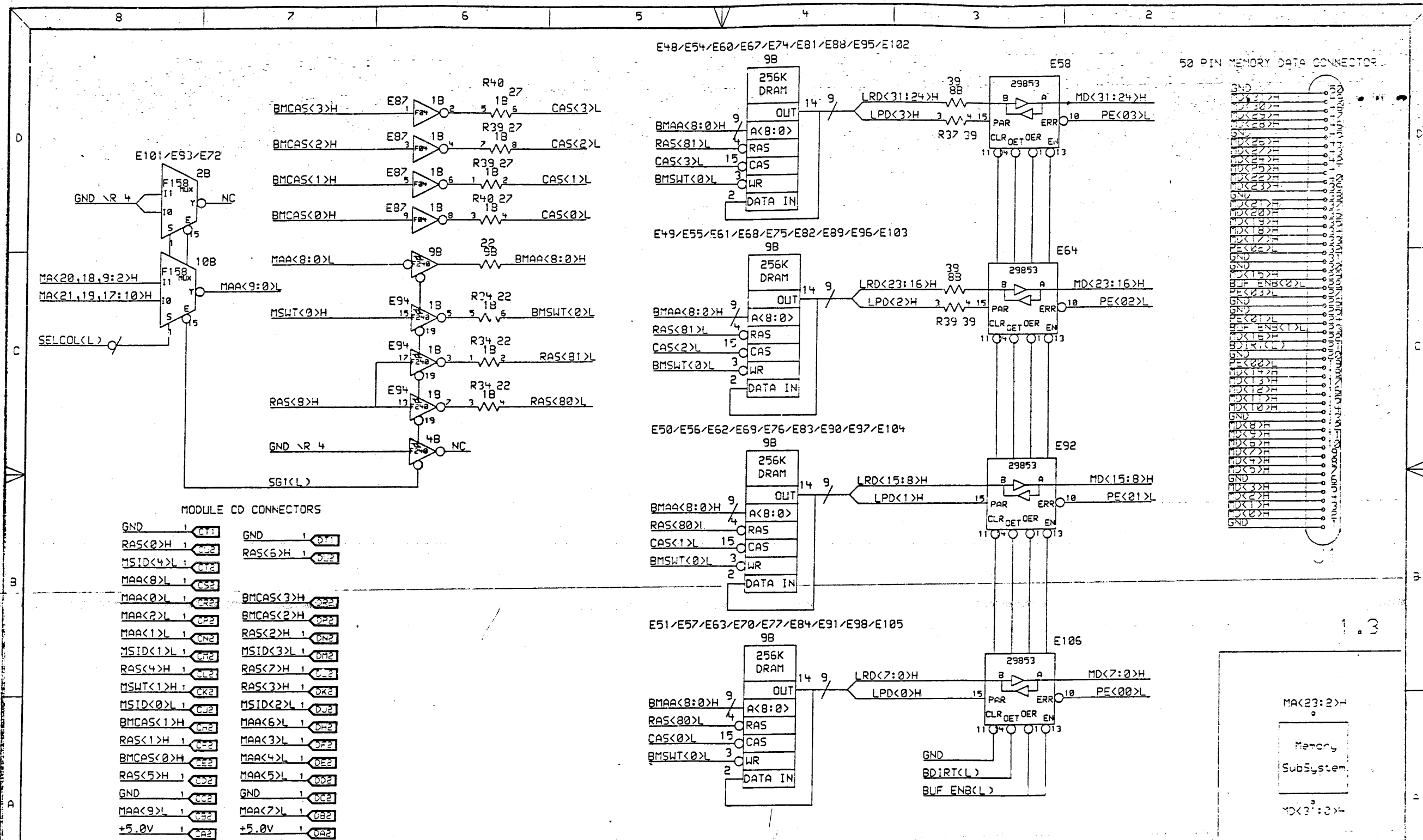




1.2



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1984 DIGITAL EQUIPMENT CORPORATION	REVISION HISTORY REV. EGO NUMBER DATE H. MASKAS 10/20/84	DRAWING TITLE=ADDR LATCH ABBREV=ADLATCH CIRCUIT TYPE=ADDR+LATCH LAST MODIFIED=Sat Oct 20 18:19:02 1984	DEFINE X+FIRST=0 X+STEP=SIZE	digital	DRN: BARRY MASKAS DATE: 3-OCT-84	ENR: BARRY MASKAS DATE: 3-OCT-84	TITLE: ADDRESS LATCH/ LOCAL MEMORY DECODE
					SHEET 1 OF 1 NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER REV U CS M7526 -0 -6 5	



MODULE CD CONNECTORS

GND	1	011	GND	1	011
RAS<0>H	1	012	RAS<6>H	1	012
MSID<4>L	1	012			
MAA<8>L	1	022			
MAA<0>L	1	022	BMCAS<3>H	1	022
MAA<2>L	1	022	BMCAS<2>H	1	022
MAA<1>L	1	022	RAS<2>H	1	022
MSID<1>L	1	022	MSID<3>L	1	022
RAS<4>H	1	022	RAS<7>H	1	022
MSWT<1>H	1	022	RAS<3>H	1	022
MSID<0>L	1	022	MSID<2>L	1	022
BMCAS<1>H	1	022	MAA<6>L	1	022
RAS<1>H	1	022	MAA<3>L	1	022
BMCAS<0>H	1	022	MAA<4>L	1	022
RAS<5>H	1	022	MAA<5>L	1	022
GND	1	022	GND	1	022
MAA<9>L	1	032	MAA<7>L	1	032
+5.0V	1	0A2	+5.0V	1	0A2

\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY

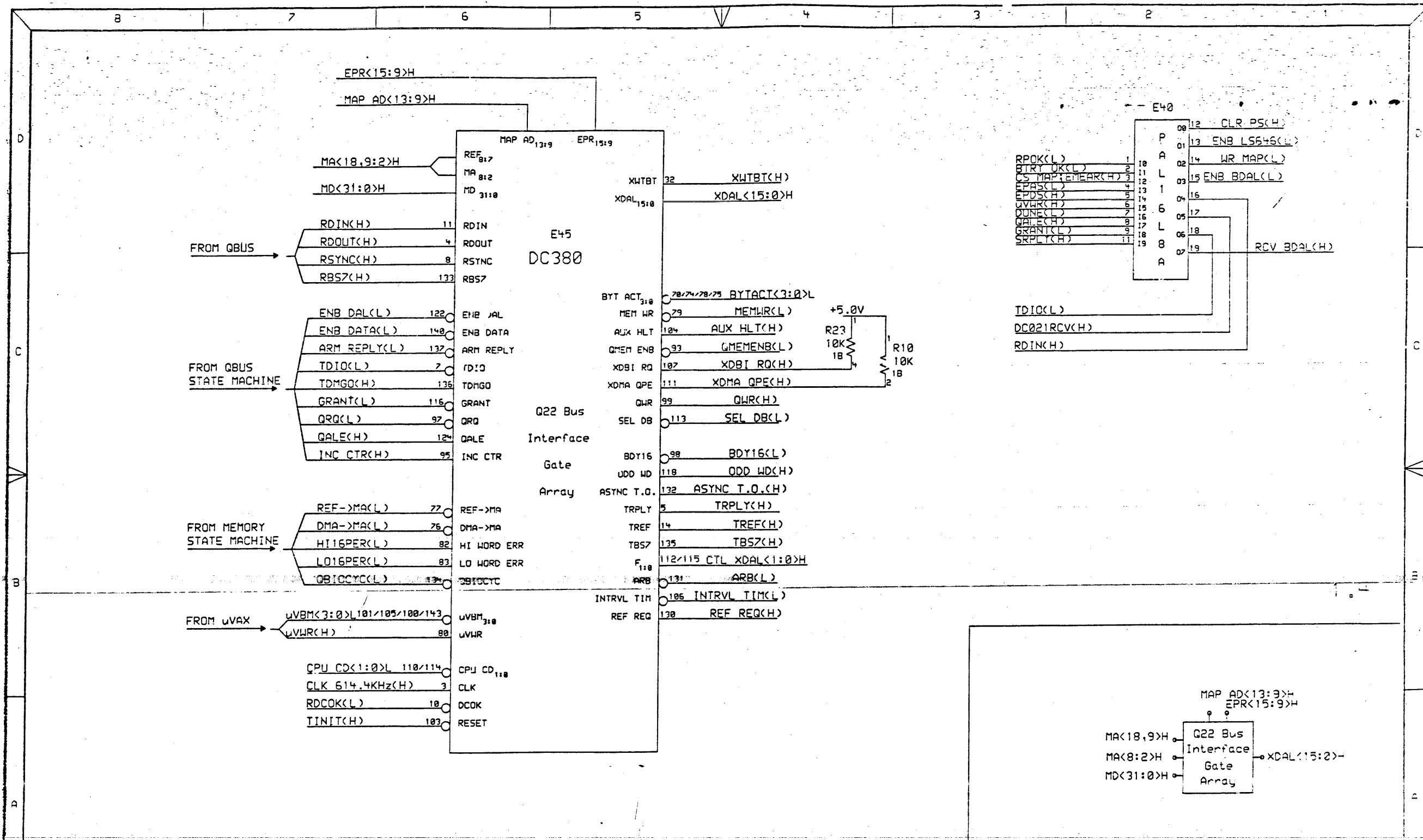
REV	TECO NUMBER	DATE
H	MFC65 MFC	

DRAWING TITLE=MEM ABBREV=MEM  
 CIRCUIT+TYPE=MEMEORY  
 LAST+MODIFIED=Mon Oct 29 09:26:41 1984

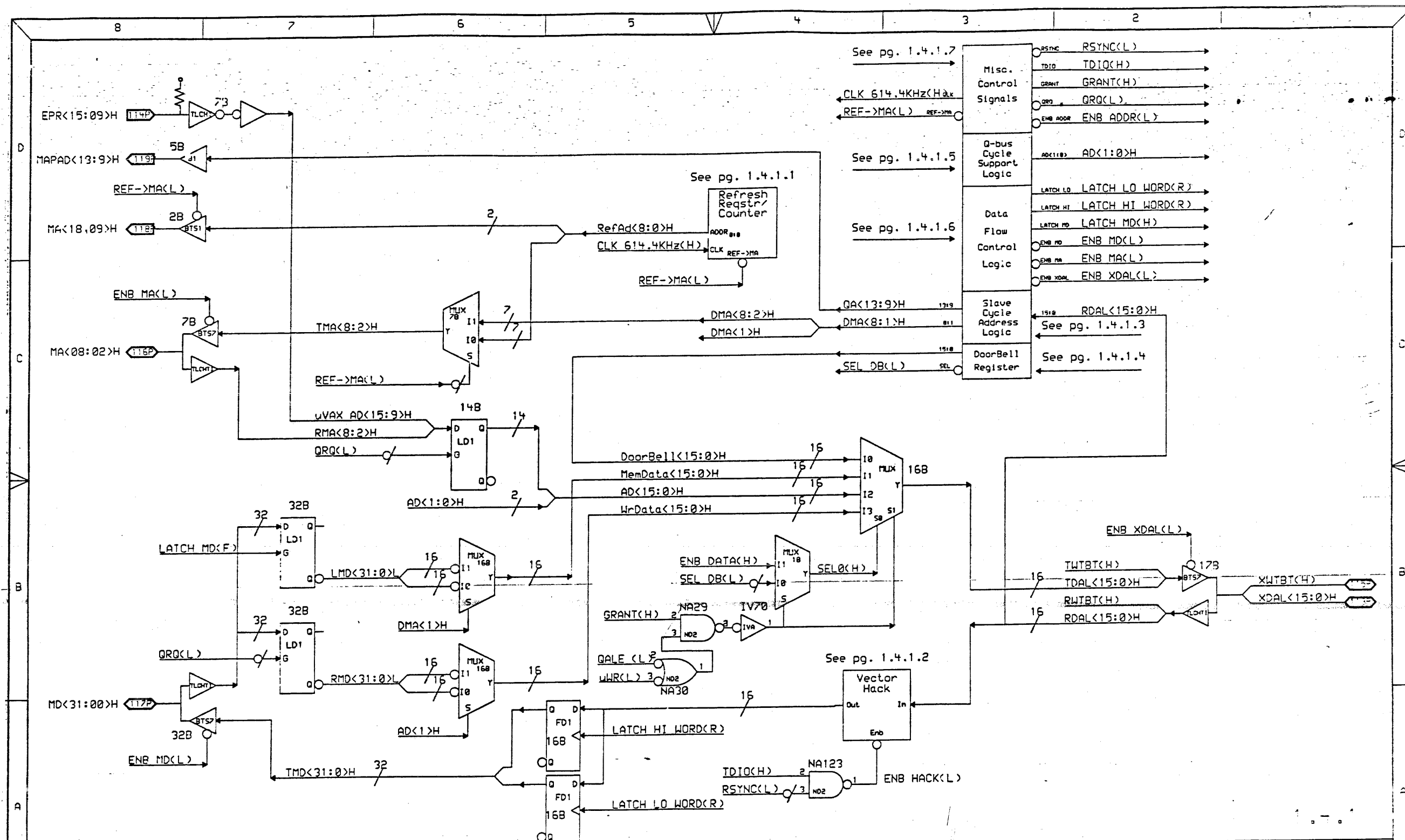
DEFINE X+FIRST=0 X+STEP=SIZE  
 digital

DRN: BARRY MASKAS	DATE: 3-OCT-84	ENG: BARRY MASKAS	DATE: 3-OCT-84
CHK'D: BARRY MASKAS	DATE: 3-OCT-84	SHEET 1 OF 1	

TITLE: Memory SubSystem  
 SIZE CODE: D 05  
 NUMBER: 47505-02-7  
 REV: 2



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION	REVISION HISTORY REV. 1 DATE BY	DRAWING TITLE=GATOR2 ABBREV=GA2 CIRCUIT TYPE=GATE+ARRAY LAST+MODIFIED=Sun Oct 7 18:31:56 1984	DEFINE X+FIRST=0 X+STEP=SIZE		DRN: R. McNamara DATE 3-OCT-84 CHK'D: R. McNamara DATE 3-OCT-84	ENG: R. McNamara DATE 3-OCT-84 SHEET 1 OF NEXT HIGHER ASSEMBLY:	TITLE: G22 Bus Interface Gate Array SIZE CODE D 1 CS NUMBER M7505 -2 -3 REV. 3
--	--	---	------------------------------------	--	--	--	---



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	TECD NUMBER	DATE
1	NA29	15-DEC-83
2	NA30	15-DEC-83

**DRAWING**  
 TITLE=GA2  
 ABBREV=GA2  
 LAST+MODIFIED= Tue Oct 9 14:46:23 1984

**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE

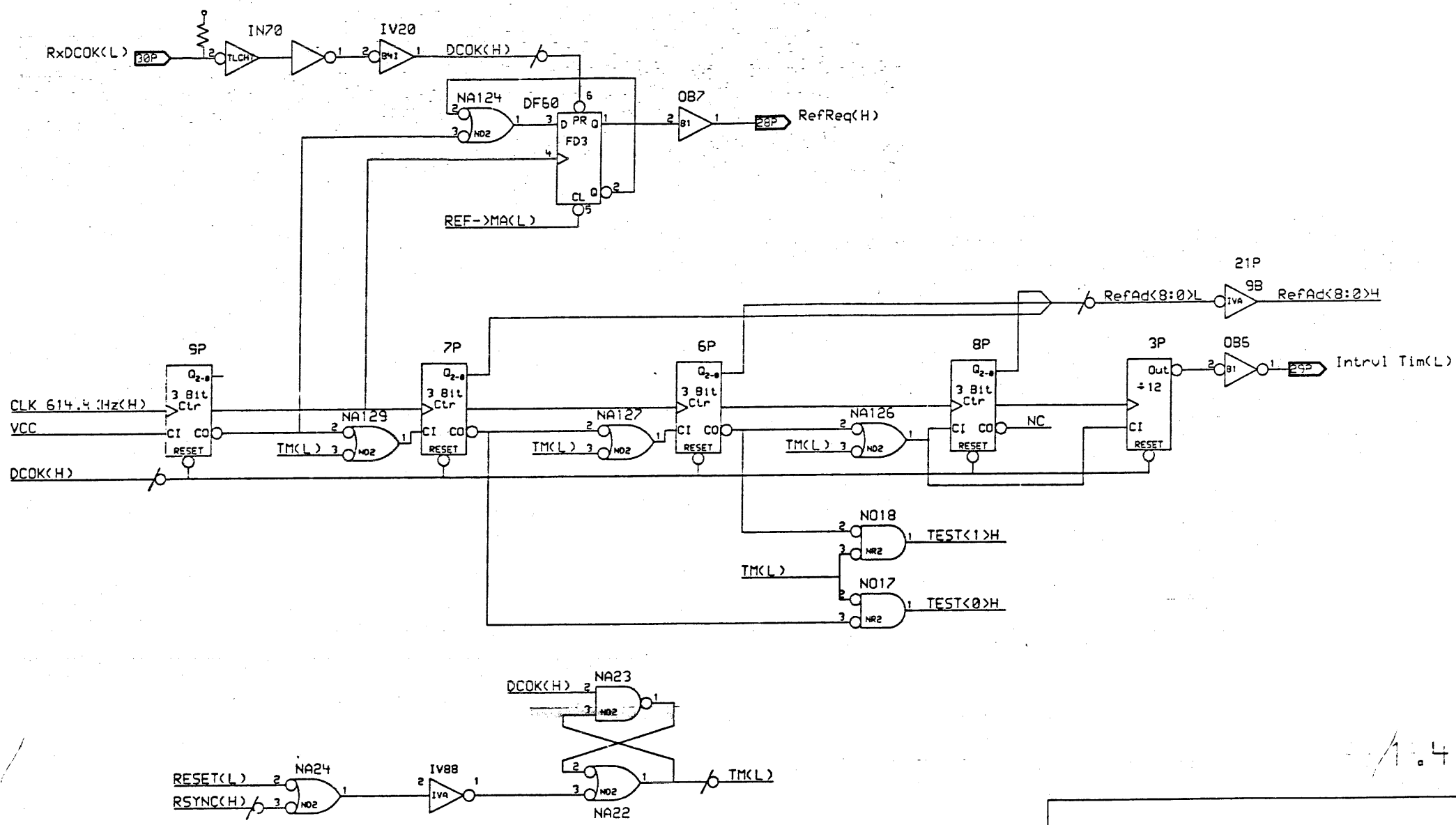


DRN:  
 R. McNamara  
 DATE  
 15-DEC-83  
 CHK'D:  
 R. McNamara  
 DATE  
 15-DEC-83

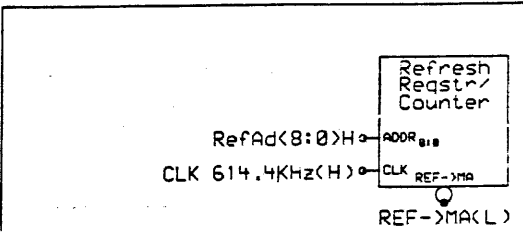
ENG:  
 R. McNamara  
 DATE  
 15-DEC-83  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

**TITLE:**  
 Q22 Bus Interface Gate Array  
 SIZE CODE: 0 cs  
 NUMBER: M7625-2





1.4.1.1

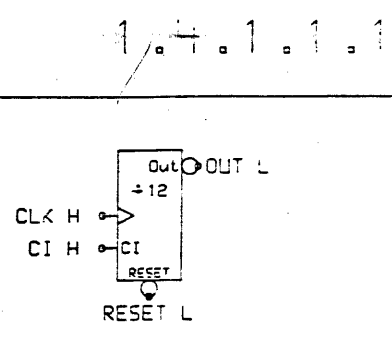
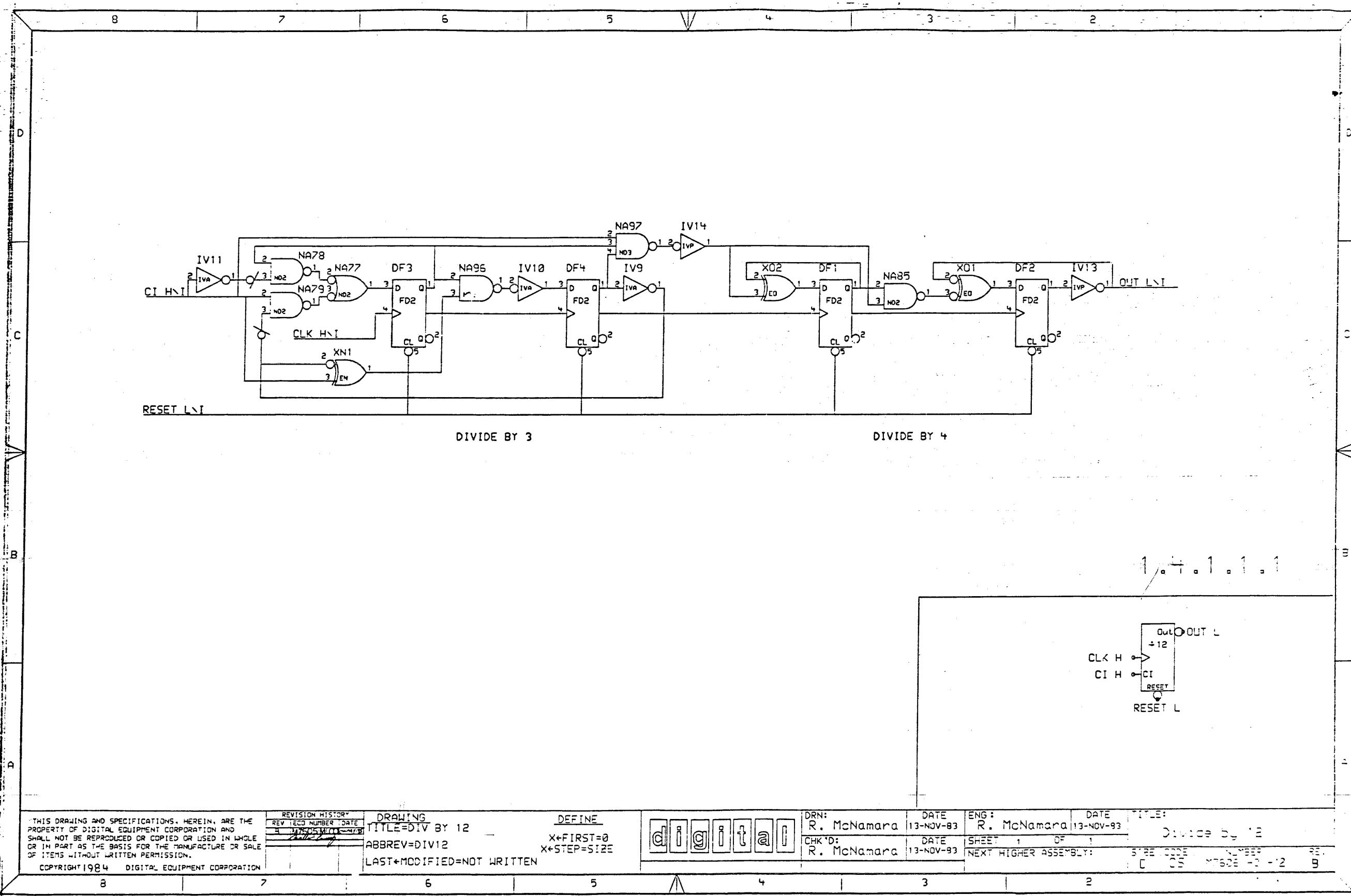


\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		DRAWING
REV	ECO NUMBER DATE	
B	13-NOV-83	LAST MODIFIED=Wed Oct 10 19:06:07 1984
A	13-NOV-83	



DRN:	R. McNamara	DATE	13-NOV-83	ENG:	R. McNamara	DATE	13-NOV-83
CHK'D:	R. McNamara	DATE	13-NOV-83	SHEET	1	OF	1
NEXT HIGHER ASSEMBLY:				TITLE:			
				REFRESH LOGIC/COUNTER			
STORE CODE		NUMBER		REV			
D CS		M7625 -0 -11		B			

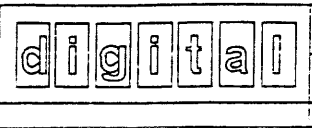


THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ISSUED	DATE
1	INITIAL	11/13/93

**DRAWING**  
 TITLE=DIV BY 12  
 ABBREV=DIV12  
 LAST\*MODIFIED=NOT WRITTEN

**DEFINE**  
 X\*FIRST=0  
 X\*STEP=SIZE



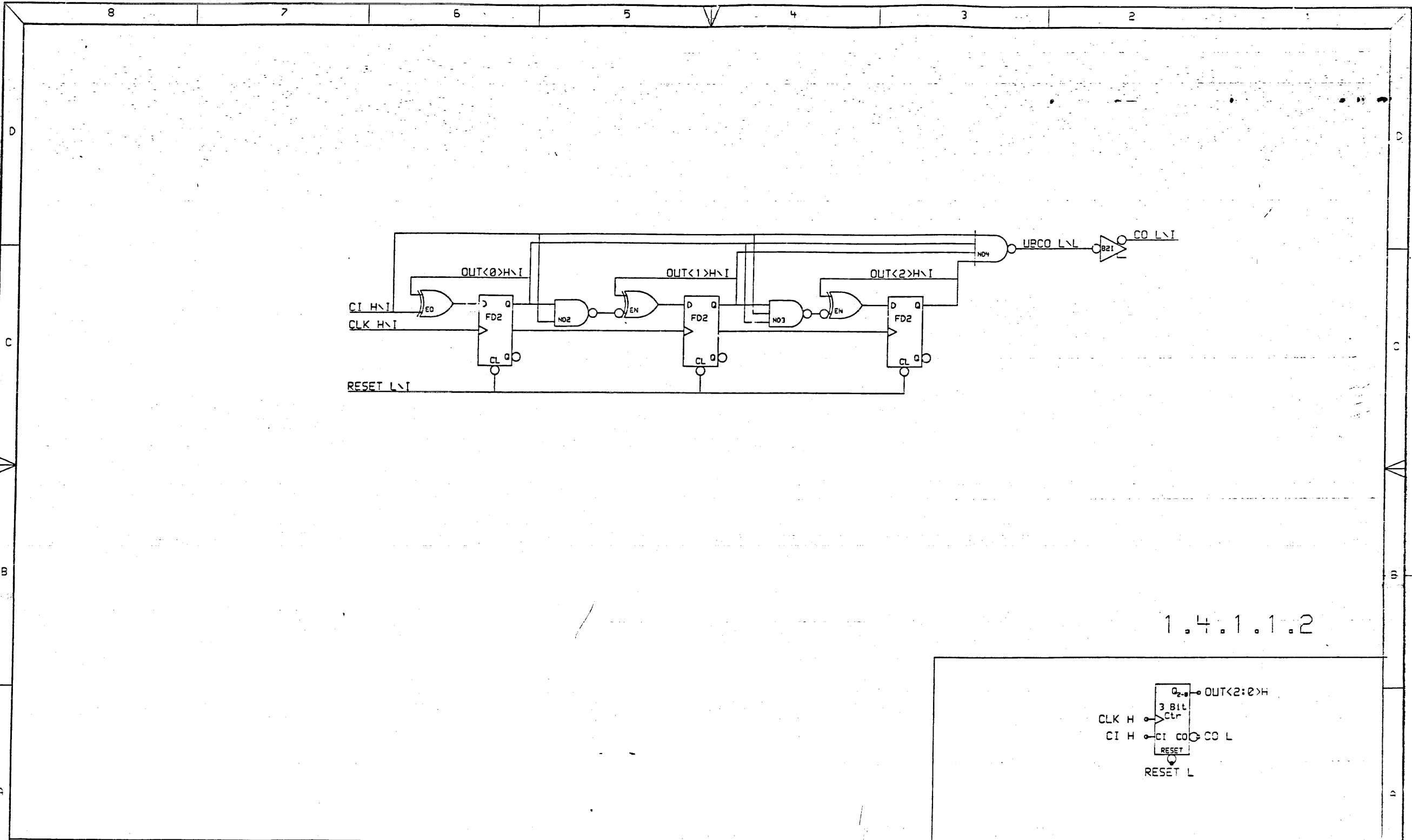
DRN:  
R. McNamara  
 CHK'D:  
R. McNamara

DATE  
13-NOV-93  
 DATE  
13-NOV-93

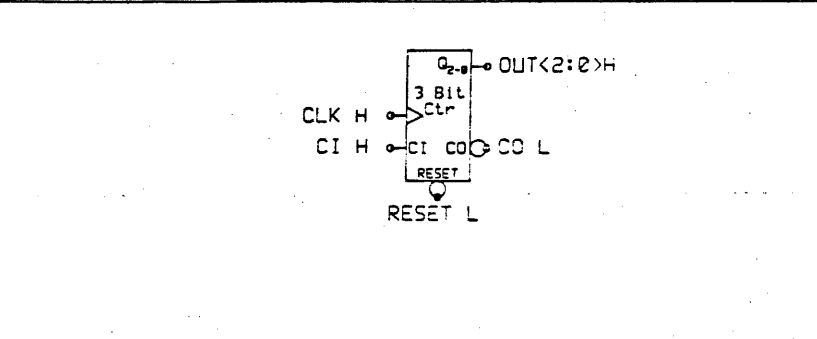
ENG:  
R. McNamara  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE:  
Divide by 12

5' REVISION NUMBER  
 [ 05 ] 17508-02-2 B



1.4.1.1.2



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
1	M7905-1 (10/24/83)	

**DRAWING**  
 TITLE=3 BIT CTR  
 ABBREV=3BCTR  
 CIRCUIT+TYPE=3BITCTR  
 LAST+MODIFIED=Sat Oct 20 18:47:47 1984

**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE

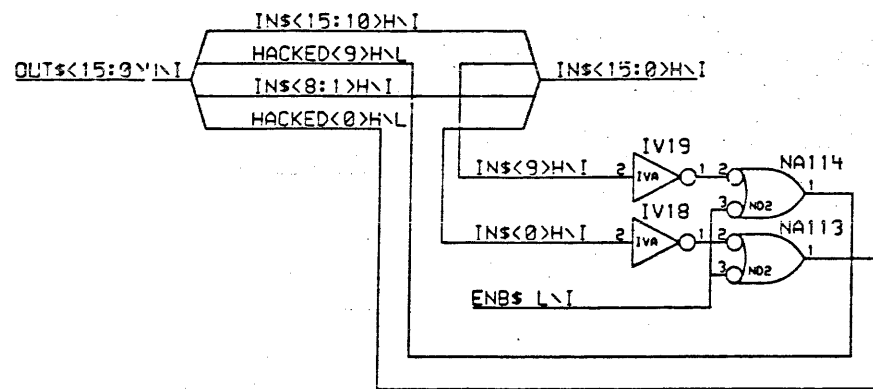


DRN: R. McNamara 5-NOV-83  
 ENG: R. McNamara 6-NOV-83  
 CHK'D: R. McNamara 6-NOV-83  
 DATE: 5-NOV-83  
 SHEET: 1 OF 1  
 NEXT HIGHER ASSEMBLY:

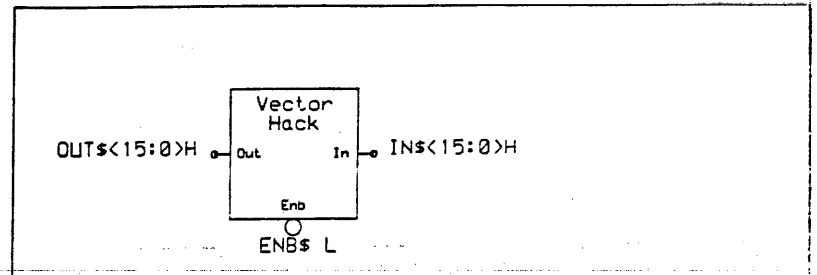
TITLE: Synchronous 3 Bit Counter  
 SIZE CODE: D 05  
 NUMBER: M7905-1-3  
 REV: E



8 7 6 5 4 3 2



1.4.1.2



\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
COPYRIGHT 1964 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	NO	DATE
B	M.A.C.	11/9/83

**DRAWING**  
TITLE=VECTOR HACK  
ABBREV=VCTRCK  
LAST\*MODIFIED=Wed Oct 10 19:16:55 1984

**DEFINE**  
X\*FIRST=0  
X\*STEP=SIZE

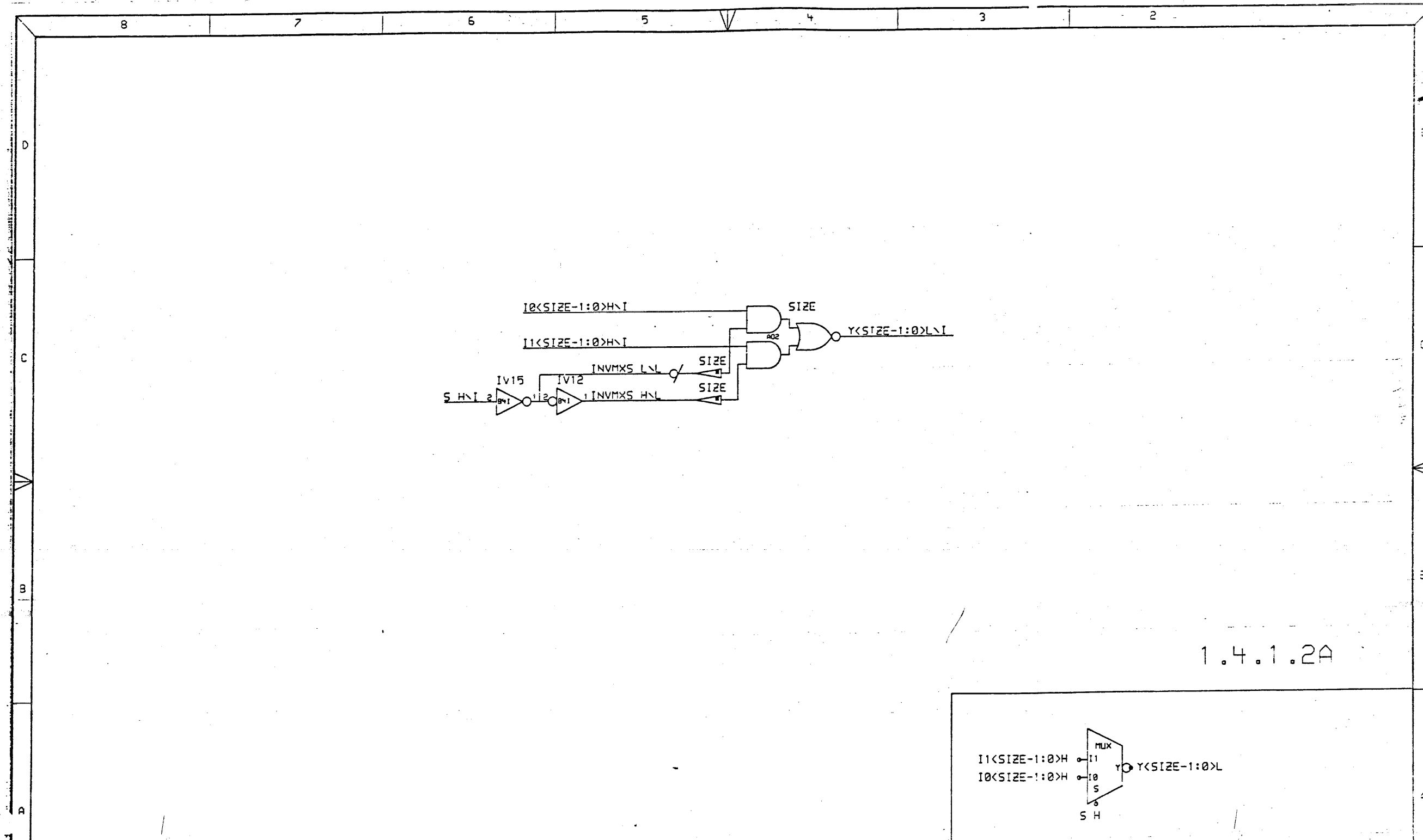


DRN:  
R. McNamara  
CHK'D:  
R. McNamara

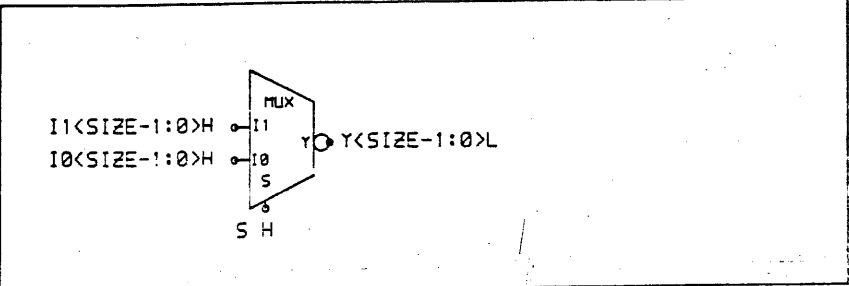
DATE  
9-NOV-83  
DATE  
9-NOV-83  
SHEET 1 OF 1  
NEXT HIGHER ASSEMBLY:

TITLE:  
Vector Hack  
SIZE CODE NUMBER  
0 CS 47525 -0 -14

8 7 6 5 4 3 2



1.4.1.2A



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1964 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	TECD NUMBER	DATE
B	W565M701	1/23/84

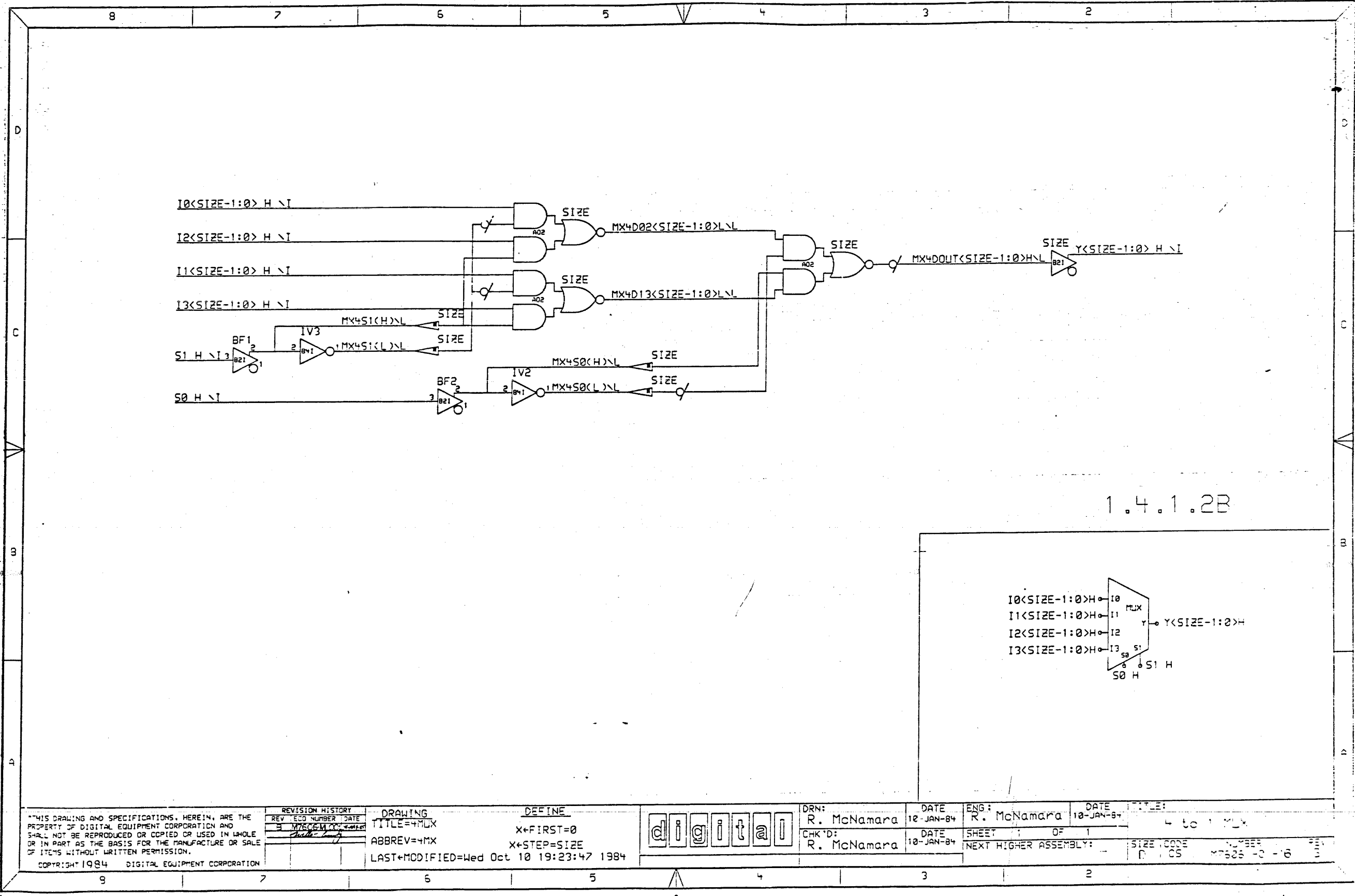
**DRAWING**  
 TITLE=INV MUX  
 ABBREV=INVMX  
 LAST\*MODIFIED=Wed Oct 10 19:20:46 1984

**DEFINE**  
 X\*FIRST=0  
 X\*STEP=SIZE  
 digital

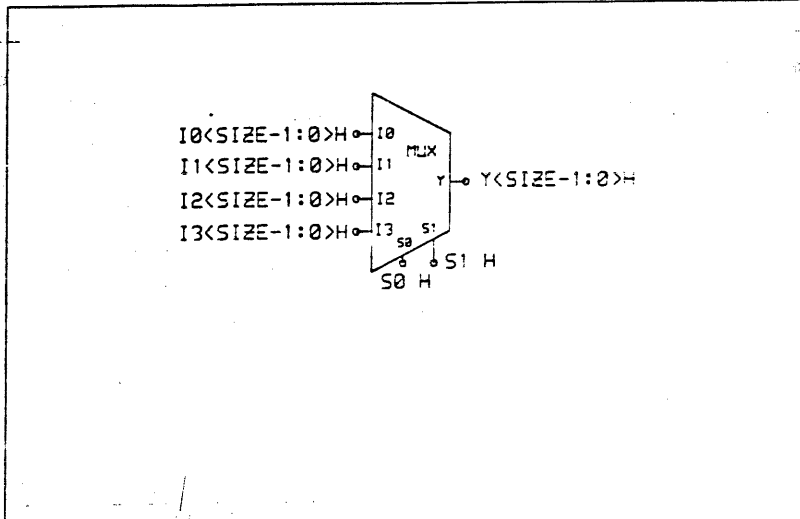
DRN: R. McNamara  
 CHK'D: R. McNamara

DATE: 23-Jan-84  
 DATE: 23-Jan-84

ENG: R. McNamara  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:  
 TITLE: Inverting Mux Logic  
 SIZE CODE: D  
 NUMBER: M7605-2-15  
 REV: B



1.4.1.2B

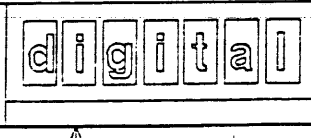


THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
1	M7625-01	10-1-84

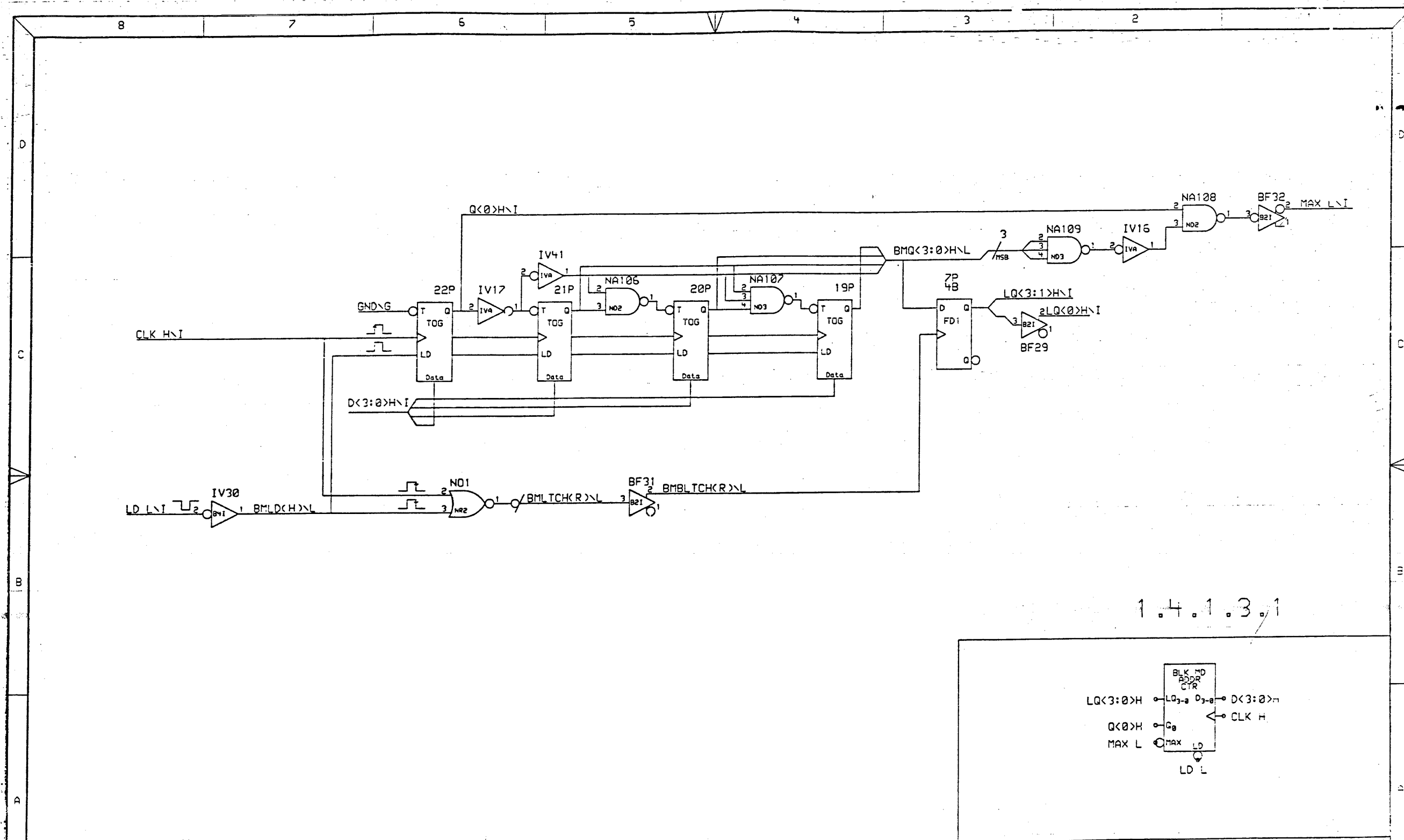
**DRAWING**  
 TITLE=4MUX  
 ABBREV=4MX  
 LAST+MODIFIED=Wed Oct 10 19:23:47 1984

**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE

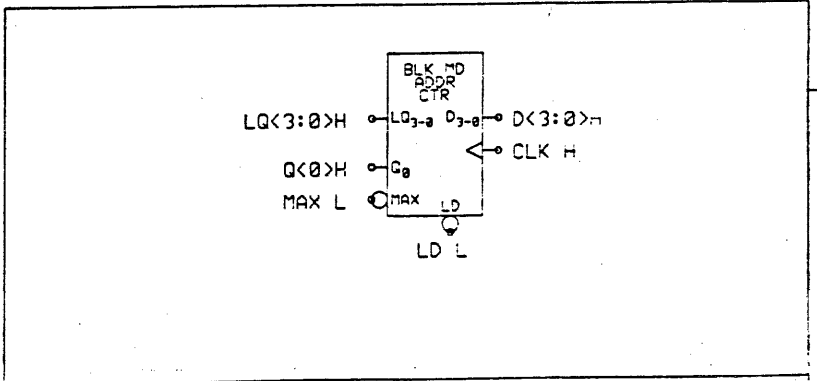


DRN: R. McNamara	DATE 12-JAN-84	ENG: R. McNamara	DATE 10-JAN-84	TITLE: 4 to 1 MUX
CHK'D: R. McNamara	DATE 10-JAN-84	SHEET 1	OF 1	SIZE CODE D 105
NEXT HIGHER ASSEMBLY:		NUMBER M7625-01-16		





1.4.1.3.1



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	ECO NUMBER	DATE
6		11-01-83

DRAWING  
 TITLE=BLK MD CTR  
 ABBREV=BMCTR  
 CIRCUIT+TYPE=BLKMDCTR  
 LAST+MODIFIED=Wed Oct 10 19:28:01 1984

DEFINE  
 X\*FIRST=0  
 X\*STEP=SIZE



DRN: R. McNamara  
 CHK'D: R. McNamara

DATE: 6-NOV-83  
 DATE: 6-NOV-83

ENG: R. McNamara  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:  
 TITLE: BLK MD CTR LOGIC  
 SIZE CODE NUMBER: D CS 47503 -0 -8

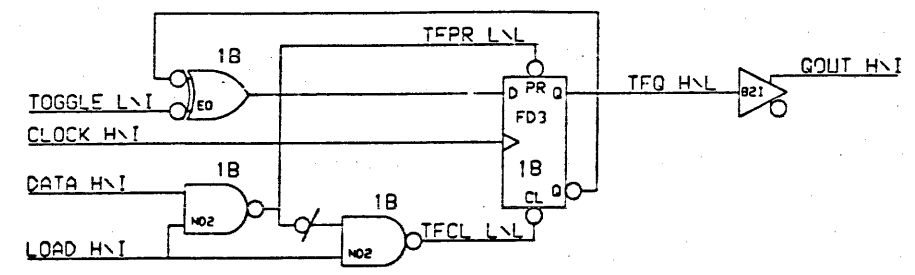
8 7 6 5 4 3 2

D

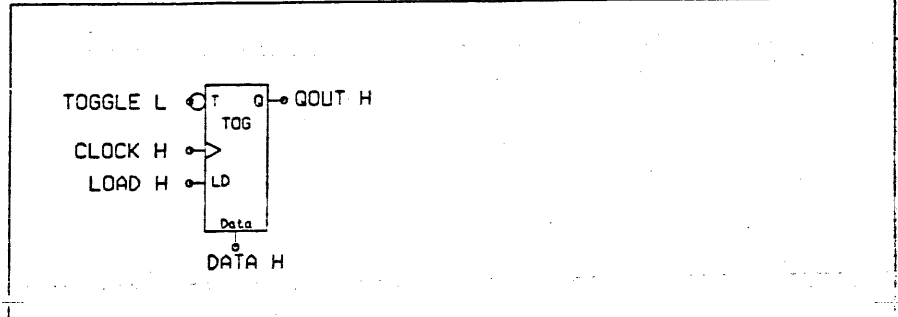
C

B

A



1.4.1.3.1.1



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT © 1984 DIGITAL EQUIPMENT CORPORATION

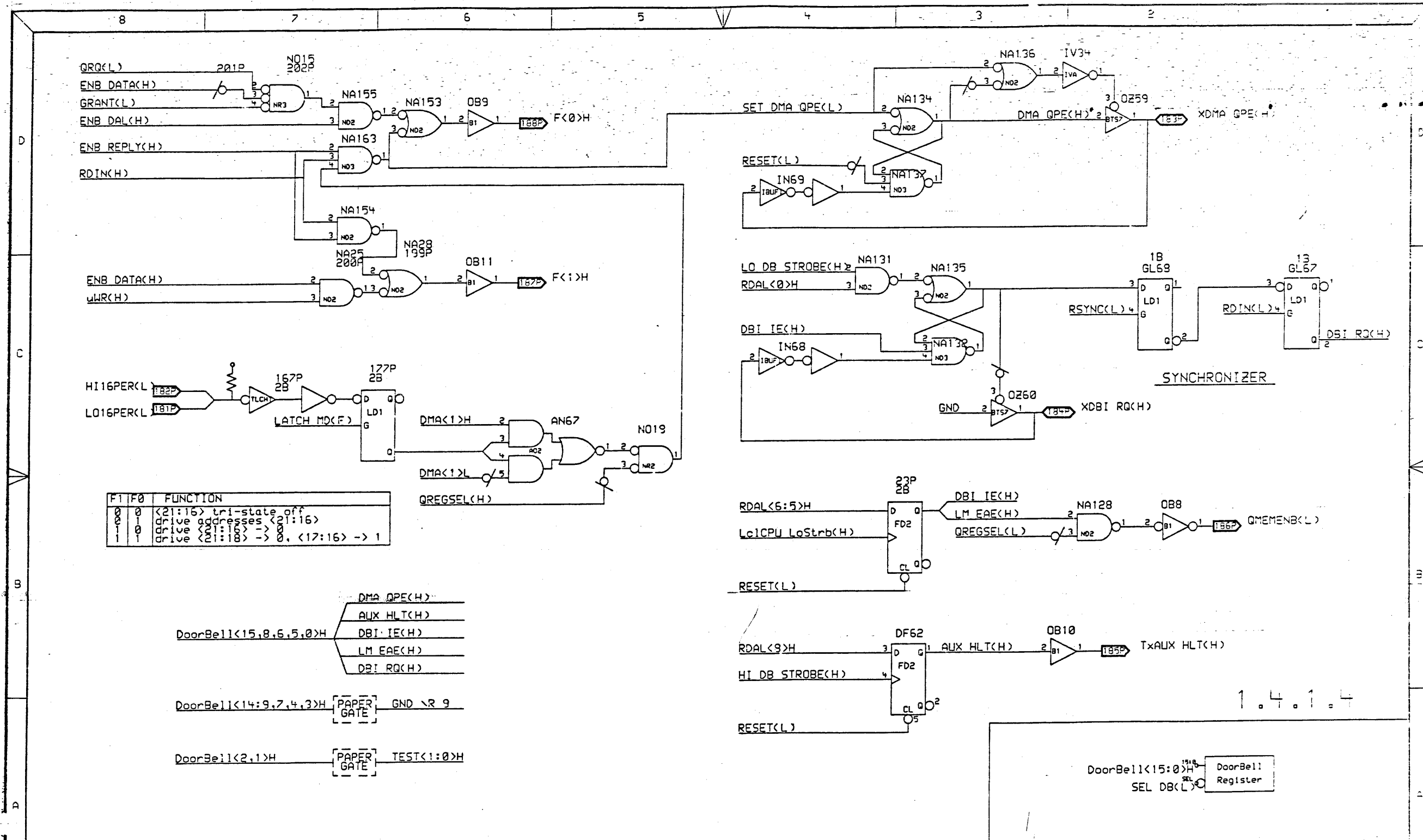
REVISION HISTORY		
REV	ECO NUMBER	DATE
3	11/28/83	11/28/83

DRAWING  
 TITLE=TOG  
 ABBREV=TOG  
 LAST MODIFIED=Wed Oct 10 19:57:28 1984

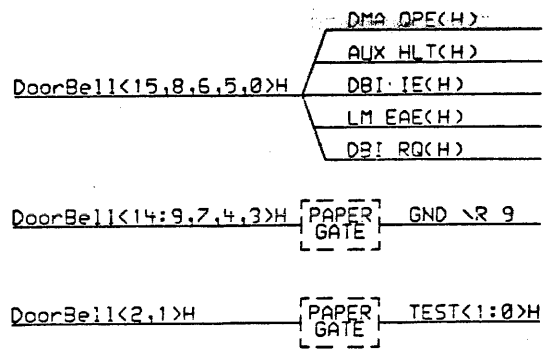
DEFINE  
 X+FIRST=0  
 X+STEP=SIZE  
 digital

DRN: R. McNamara	DATE 16-NOV-83	ENG: R. McNamara	DATE 16-NOV-83	TITLE: TOGGLE FLOP
CHK'D: R. McNamara	DATE 16-NOV-83	SHEET 1	OF 1	SIZE CODE D 25
NEXT HIGHER ASSEMBLY:			NUMBER 1	REV. 2

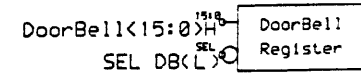
8 7 6 5 4 3 2



F11F0	FUNCTION
00	<21:16> tri-state off
01	drive addresses <21:16>
10	drive <21:18> -> 0
11	drive <21:18> -> 1



1.4.1.4



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

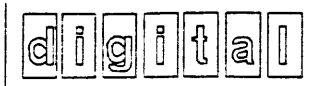
COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY

REV	NO	NUMBER	DATE
1	1	1	11-NOV-83
2	1	1	11-NOV-83

DRAWING

LAST+MODIFIED=Wed Oct 10 19:36:34 1984



DRN: R. McNamara DATE 1-NOV-83 ENG: R. McNamara DATE 1-NOV-83 TITLE: G-Bus Support Logic

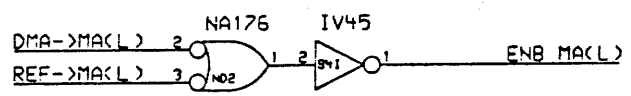
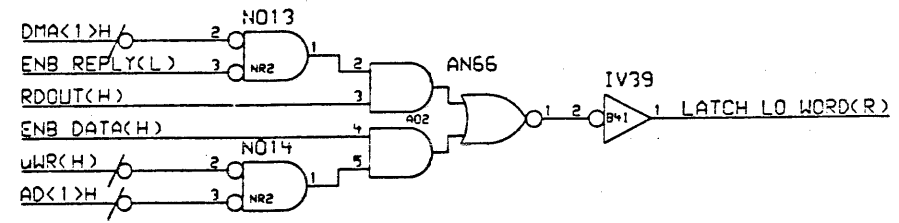
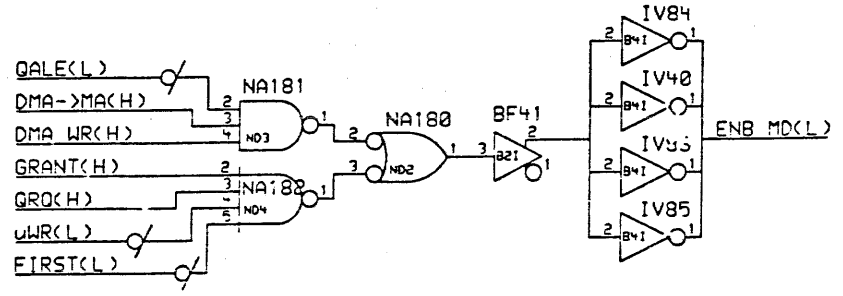
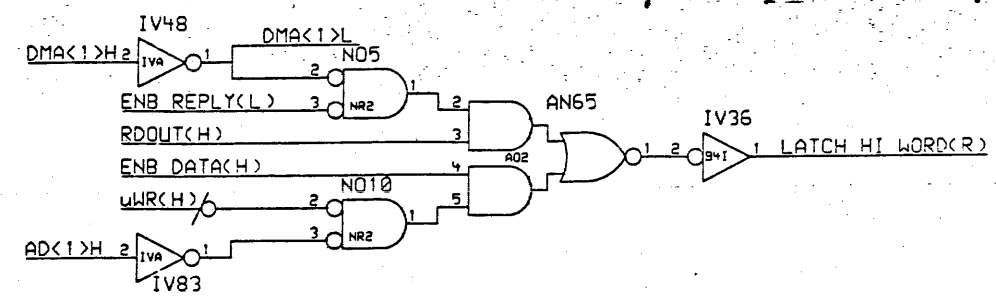
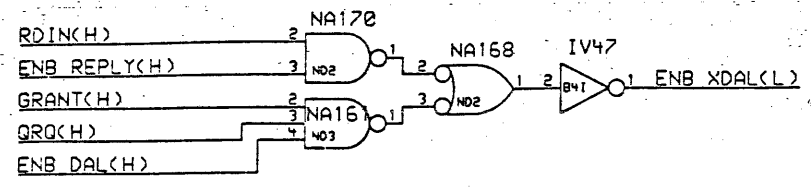
CHK'D: R. McNamara DATE 1-NOV-83 SHEET 1 OF 1

NEXT HIGHER ASSEMBLY: SHEET CODE NUMBER 0 03 11835-03-20

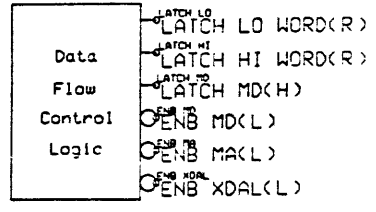




8 7 6 5 4 3 2



1.4.1.6



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

REVISION HISTORY		
REV	ECO NUMBER	DATE
B	MCS/MCO	10-11-83

DRAWING  
LAST MODIFIED=Wed Oct 10 19:45:31 1984



DRN: R. McNamara  
CHK'D: R. McNamara

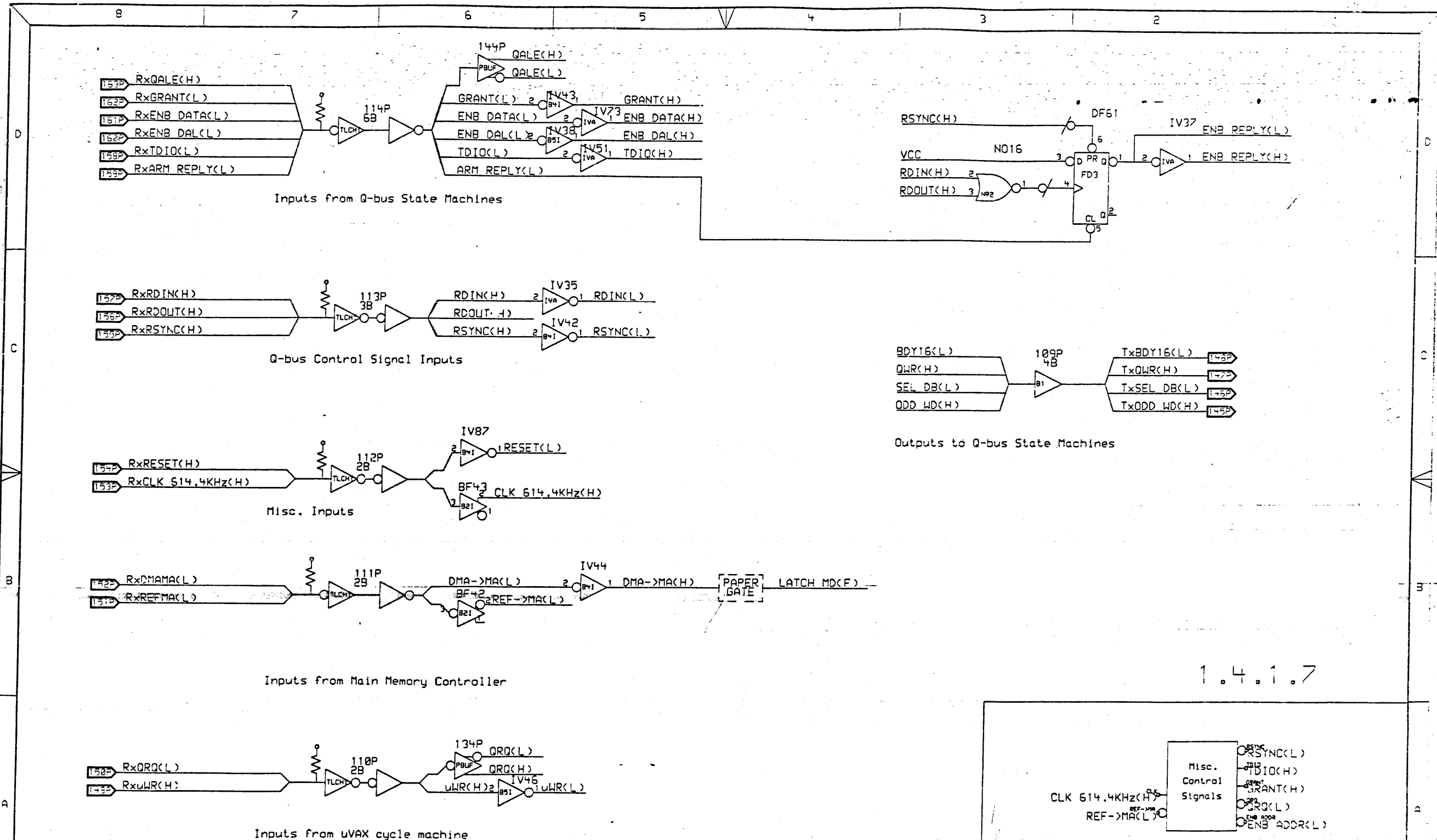
DATE: 09-NOV-83

ENG: R. McNamara

DATE: 09-NOV-83

FILE: Q-bus Support Logic  
SHEET OF  
NEXT HIGHER ASSEMBLY:  
D 25

8 7 6 5 4 3 2



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
H	M7629-10-1	10/10/84

DRAWING  
LAST MODIFIED=Wed Oct 10 19:49:41 1984

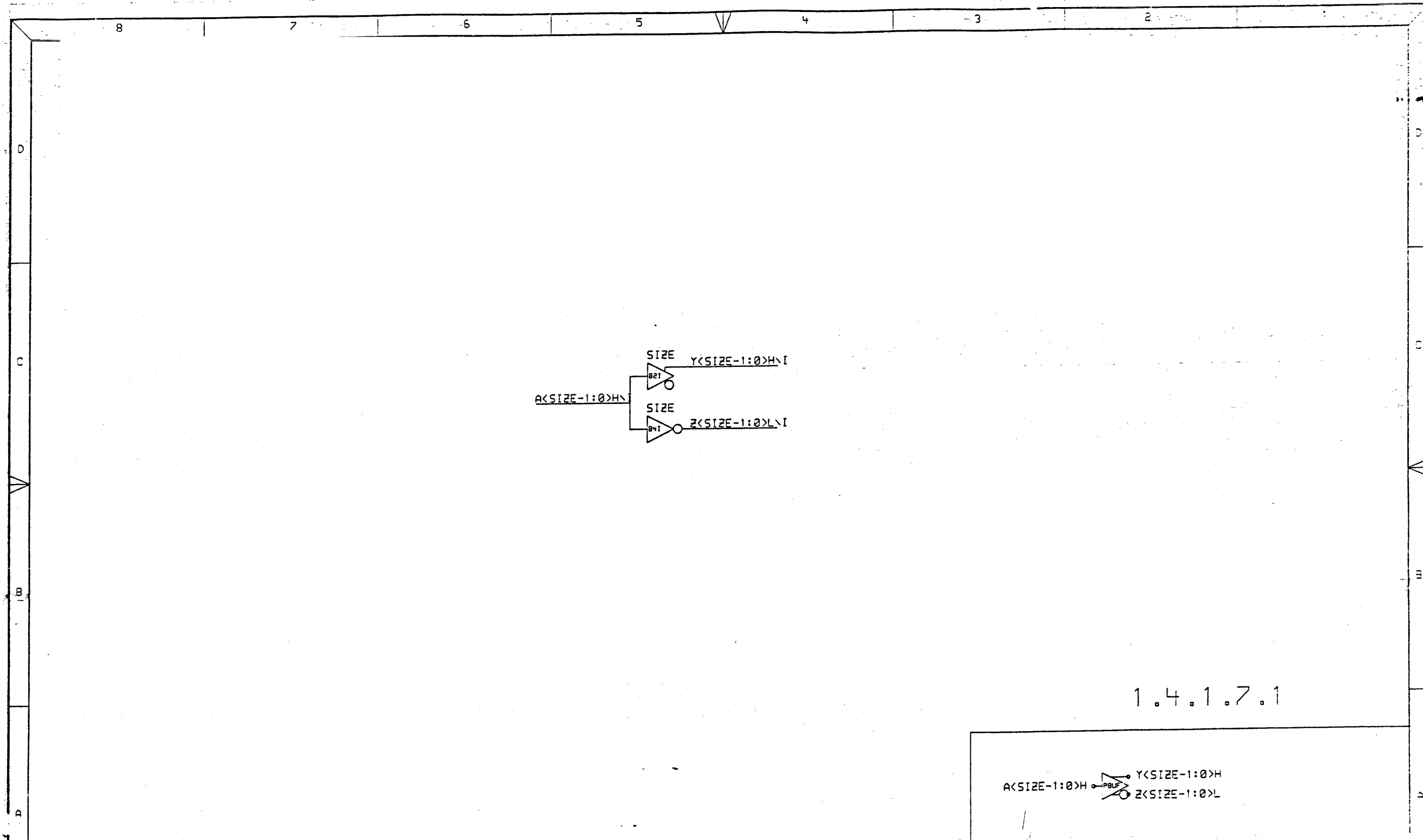


DRN: R. McNamara  
CHK'D: R. McNamara

DATE: 11-NOV-83  
DATE: 11-NOV-83

ENG: R. McNamara  
SHEET 1 OF 1  
TITLE: Q-bus Support Logic

SEE CODE: D 25  
M7629-10-13



1.4.1.7.1

\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
1		

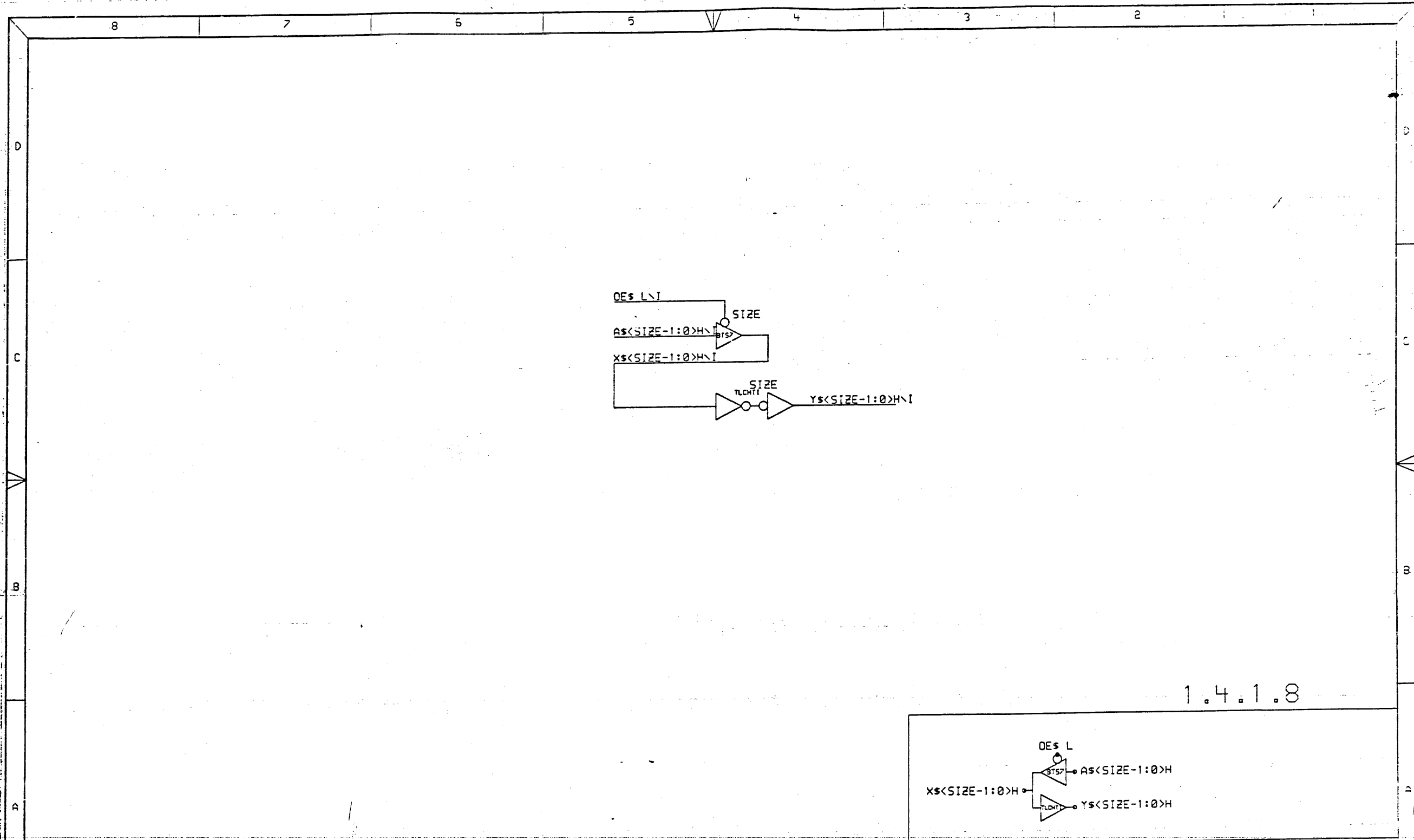
**DRAWING**  
 TITLE=PSUF  
 ABBREV=PSUF  
 LAST+MODIFIED=Wed Oct 10 20:01:17 1984

**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE  
 digital

DRN:  
 R. McNamara  
 CHK'D:  
 R. McNamara

DATE  
 11-JAN-84  
 ENG:  
 R. McNamara  
 DATE  
 11-JAN-84  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE:  
 Power Buffer Macro  
 SIZE CODE  
 D OS  
 NUMBER  
 M2825-0-24  
 REV  
 R

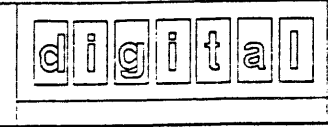


1.4.1.8

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

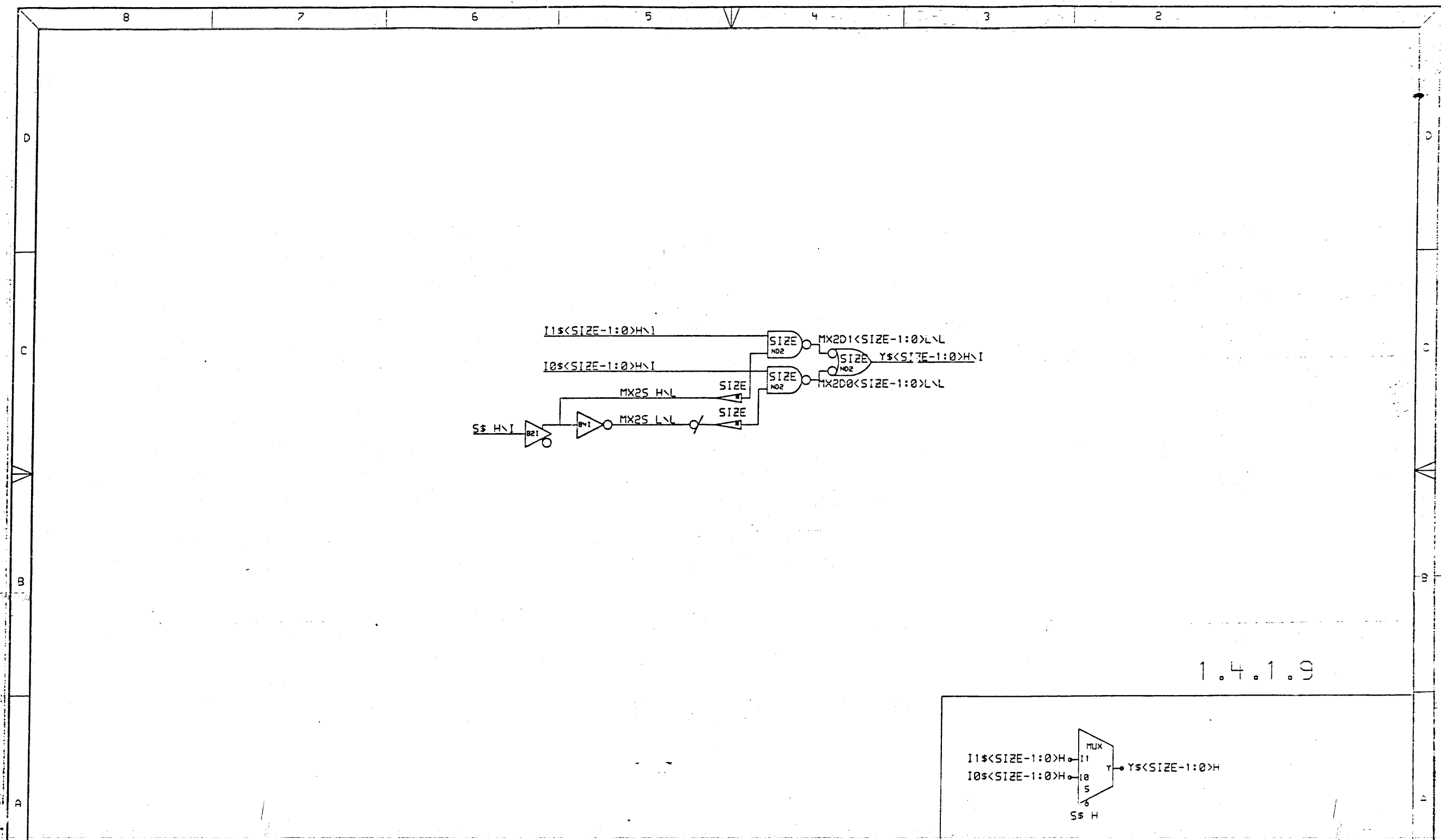
REVISION HISTORY	
REV	DESCRIPTION
1	INITIAL DESIGN
2	REVISED

DRAWING  
 TITLE=BIDIRECT  
 ABBREV=B1  
 DEFINE  
 X+FIRST=0  
 X+STEP=SIZE  
 LAST+MODIFIED=Wed Oct 10 20:05:46 1984



DRN: R. McNamara	DATE 11-NOV-93	ENG: R. McNamara	DATE 11-NOV-93
CHK'D: R. McNamara	DATE 11-NOV-93	SHEET OF	TITLE: BIDIRECT BLFFER
NEXT HIGHER ASSEMBLY:			SIZE CODE D 05

NUMBER M7626-00-25	REV 3
-----------------------	----------



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
1	M. McNamara	8-NOV-83

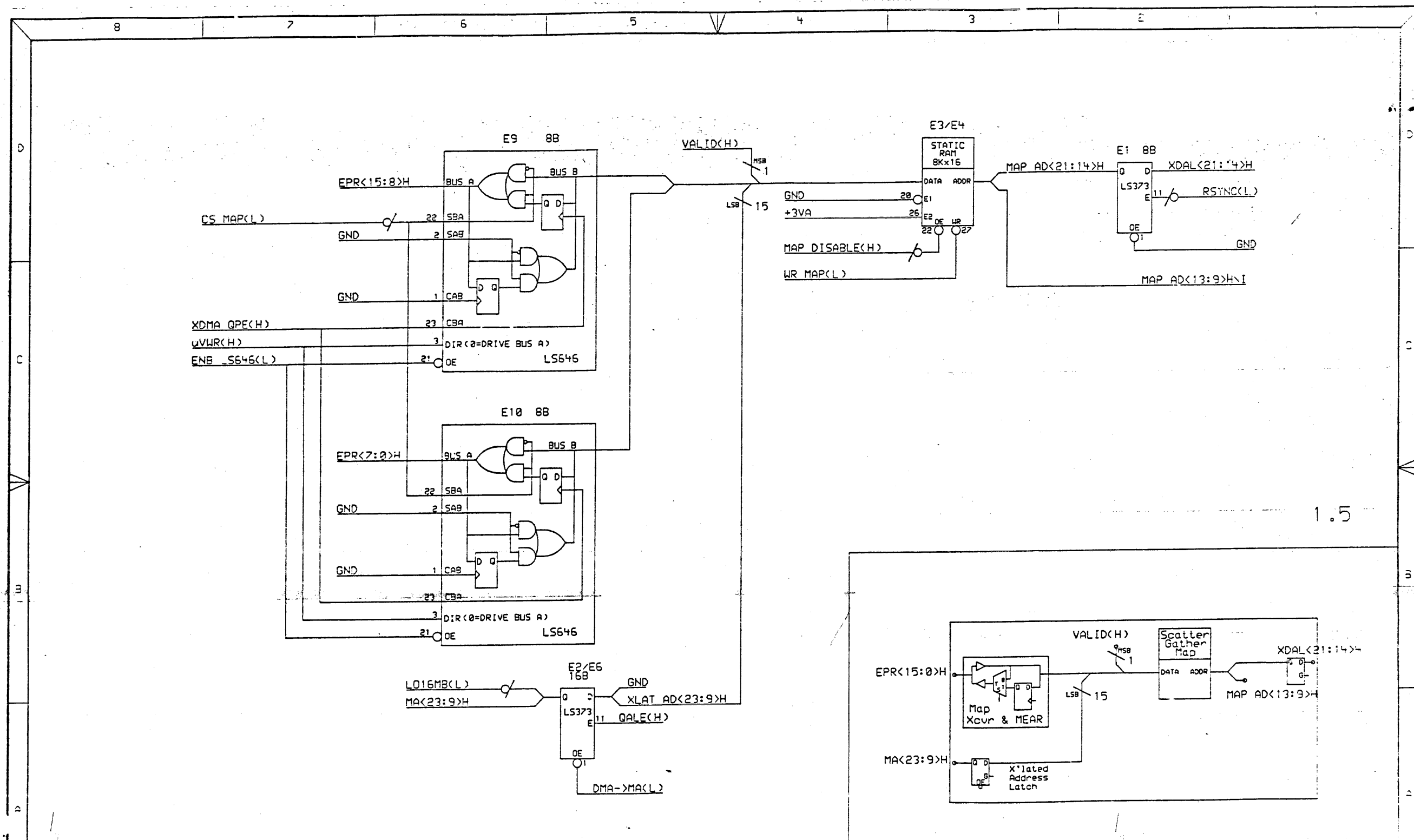
**DRAWING**  
 TITLE=MUX16  
 ABBREV=MX16  
 LAST\*MODIFIED=Wed Oct 10 20:09:42 1984

**DEFINE**  
 X\*FIRST=0  
 X\*STEP=SIZE  
 digital

DRN:  
 R. McNamara  
 CHK'D:  
 R. McNamara

DATE  
 8-NOV-83  
 DATE  
 8-NOV-83  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

DATE  
 8-NOV-83  
 TITLE:  
 MUX LOGIC  
 SIZE CODE  
 C 15  
 NUMBER  
 17806-01-05  
 DR.  
 E



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	ECO NUMBER	DATE
1		
2		
3		

DRAWING  
 TITLE=MAP GROUP  
 ABBREV=MAP  
 CIRCUIT+TYPE=TRANS+MAP  
 LAST+MODIFIED=Sun Oct 7 18:33:49 1984

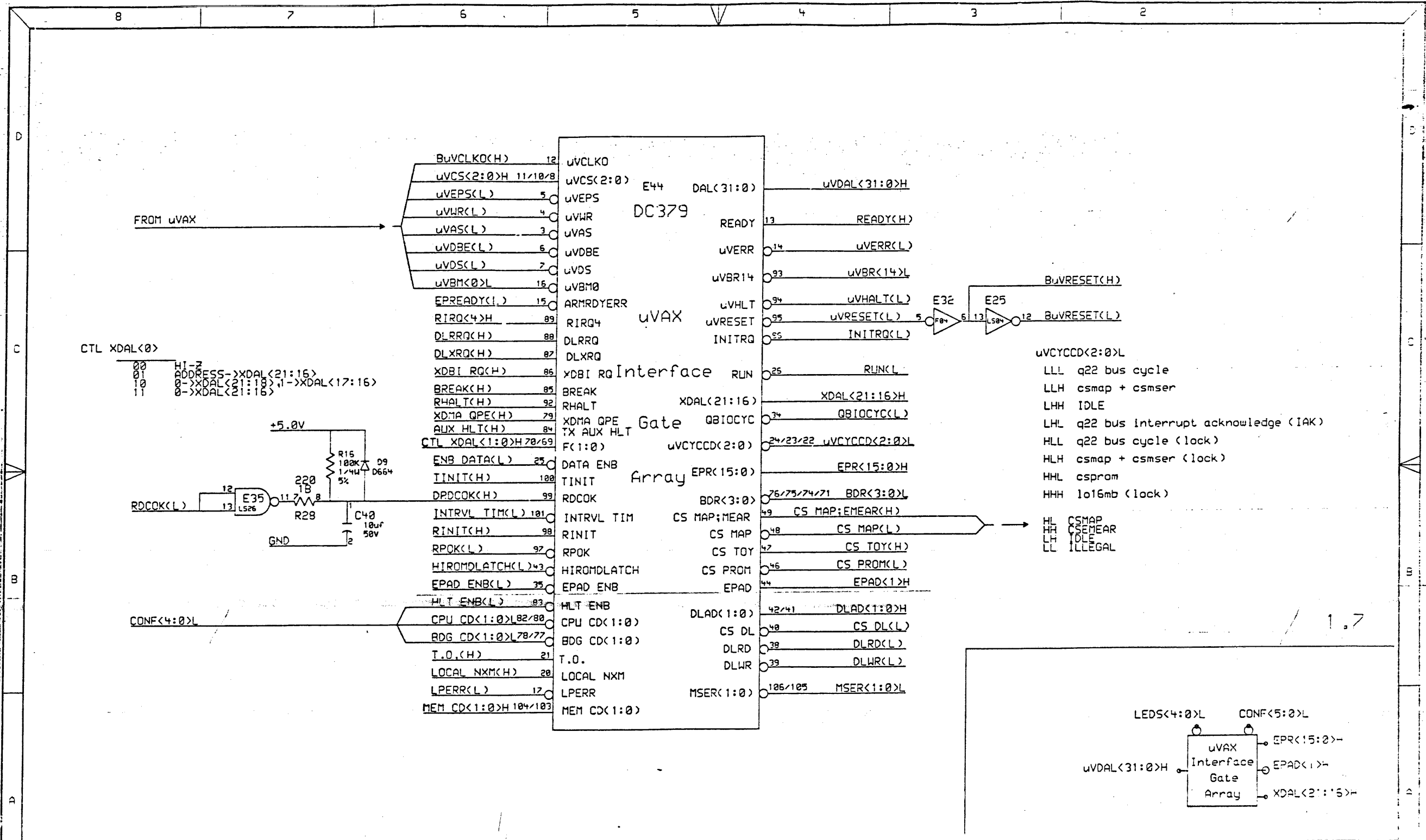
DEFINE  
 X+FIRST=0  
 X+STEP=SIZE



DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1	OF 1
NEXT HIGHER ASSEMBLY:		TITLE: Translation Map Group	

SIZE/ CODE D CS	NUMBER M7505-27	REV. 1
--------------------	--------------------	-----------





THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	ECO NUMBER	DATE
1		

**DRAWING**  
 TITLE=GATOR1  
 ABBREV=GATOR1  
 CIRCUIT+TYPE=GATE+ARRAY  
 LAST+MODIFIED=Mon Oct 29 09:35:21 1984

**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE

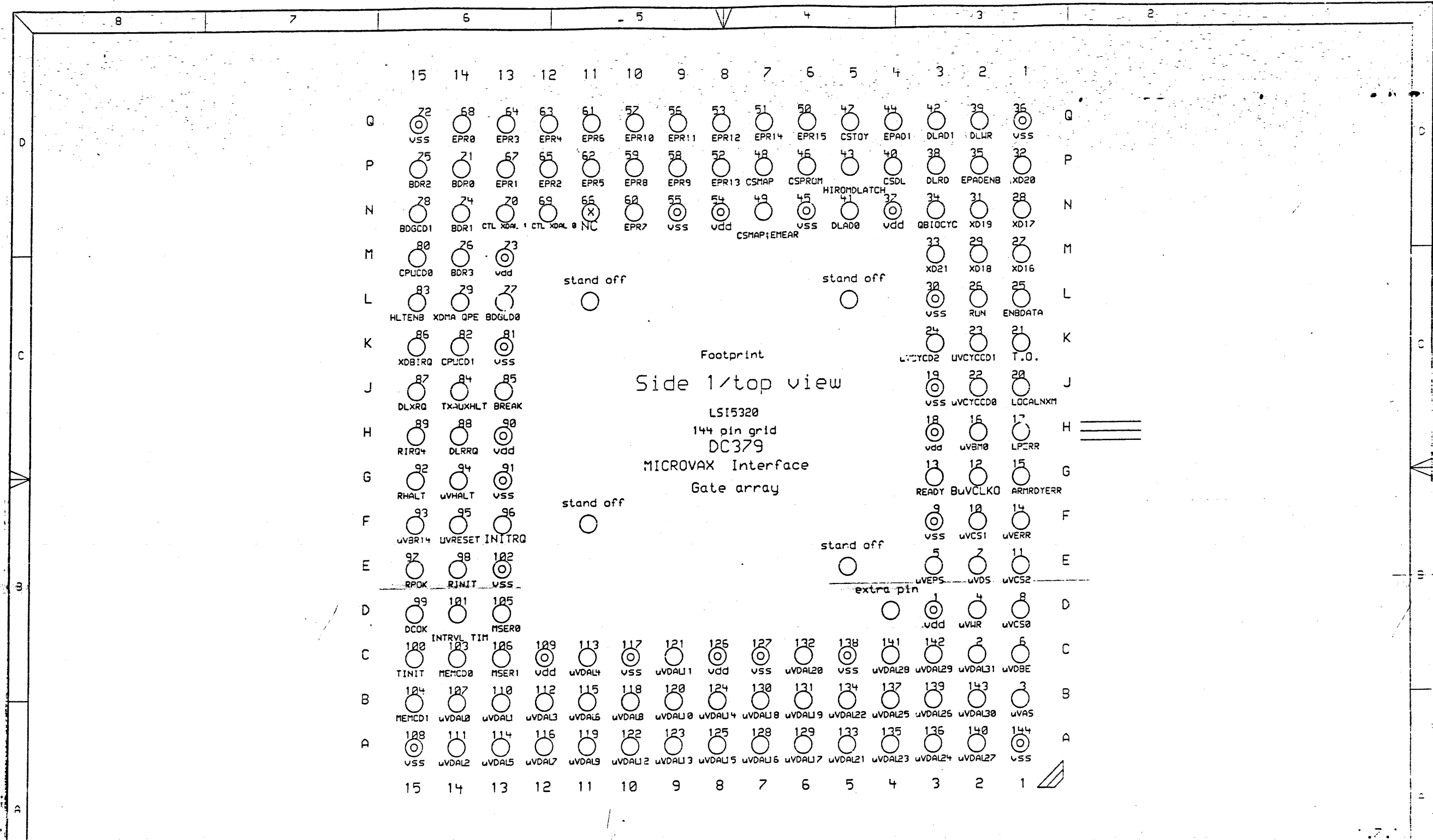


DRN: BARRY MASKAS  
 DATE: 3-OCT-84  
 CHK'D: BARRY MASKAS  
 DATE: 3-OCT-84

ENG: BARRY MASKAS  
 DATE: 3-OCT-84  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE: uVAX Interface Gate Array  
 SIZE: CODE NUMBER  
 D C 1 17605 -3 -29 3





THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ISSUED NUMBER	DATE
1	1	11/15/83
2	1	11/15/83

DRAWING TITLE=galpads  
 DEFINE X\*FIRST=0  
 X\*STEP=SIZE  
 LAST\*MODIFIED=Mon Oct 29 11:47:47 1984



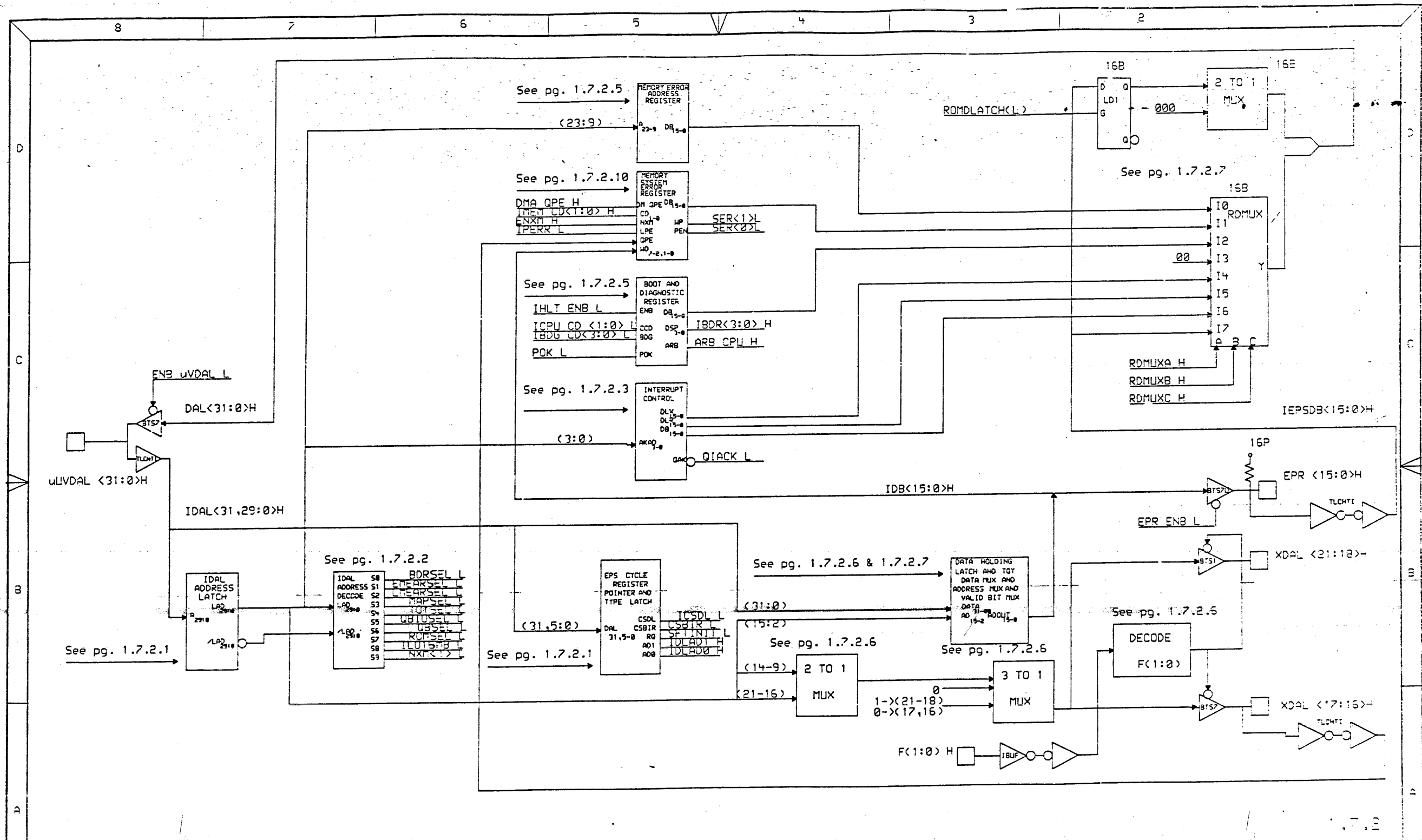
DRN: BARRY MASKAS  
 CHK'D: BARRY MASKAS

DATE

ENG: BARRY MASKAS  
 SHEET 1 OF 1

DATE 15-DEC-83  
 TITLE: DC379 PAD ASSIGNMENT TOP VIEW  
 LLS320 IN 144 PIN GRID ARRAY  
 NEXT HIGHER ASSEMBLY:  
 SIZE CODE: 0 CS 7535 -3 -30





THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

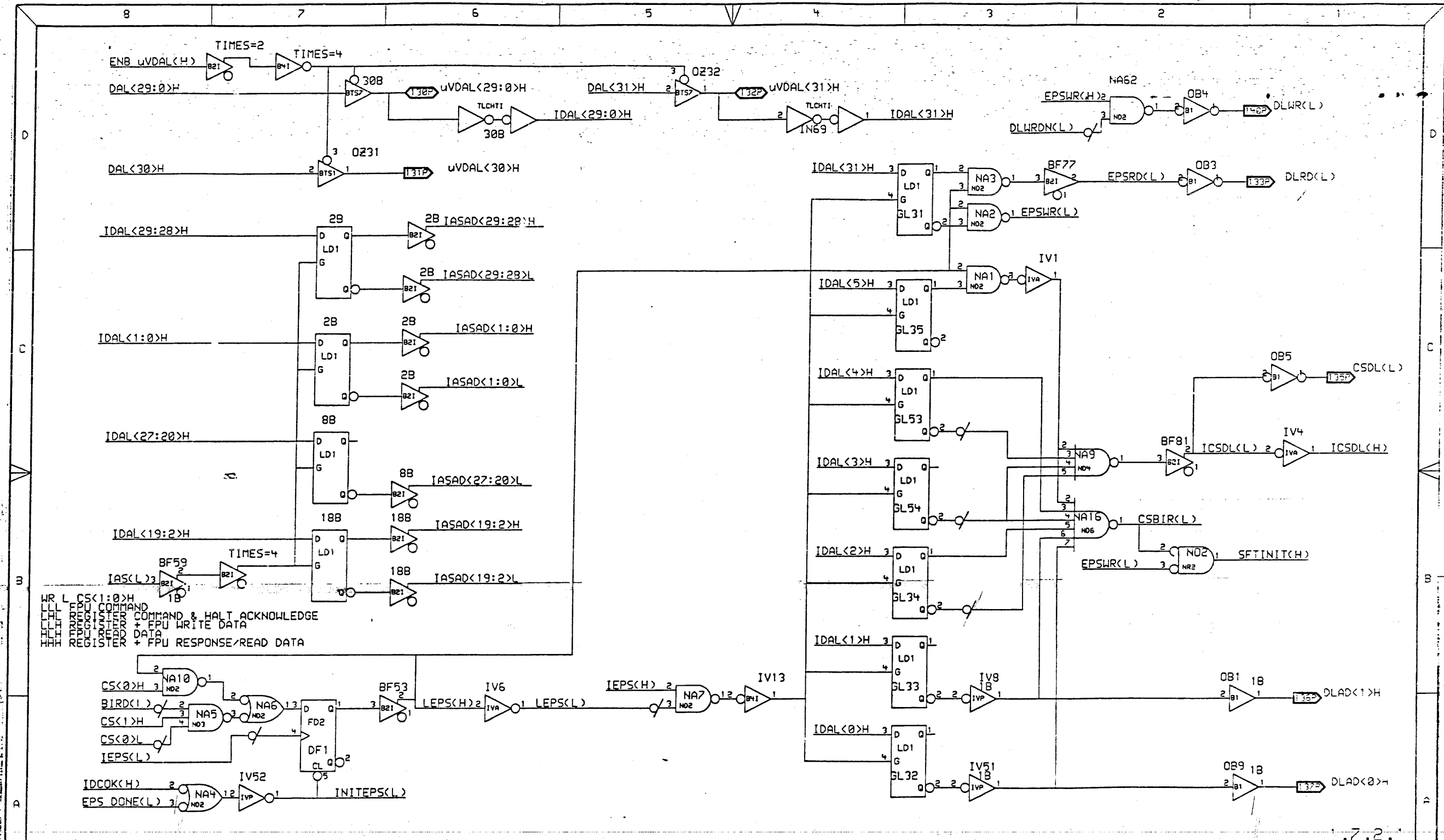
REV	ECO NUMBER	DATE
1		

**DRAWING**  
 TITLE=GA1BLOCK  
 ABBREV=GA1BLOCK  
 CIRCUIT+TYPE=GATE+ARRAY  
 LAST+MODIFIED=Sun Oct 7 20:17:53 1984



DRN: BARRY MASKAS	DATE 15-DEC-83	ENG: BARRY MASKAS	DATE 15-DEC-83
CHK'D: BARRY MASKAS	DATE 15-DEC-83	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:

TITLE: Vax Interface Gate Array Data Path
SHEET 1 OF 1
SIZE CODE: M7502

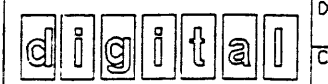


THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	TECD NUMBER	DATE
1	1756310	12-19-83
2	1756310	10-7-84

DRAWING  
 TITLE=GA1  
 ABBREV=GA1  
 CIRCUIT+TYPE=GATE+ARRAY  
 LAST+MODIFIED=Sun Oct 7 20:20:28 1984

DEFINE  
 X+FIRST=0  
 X+STEP=SIZE

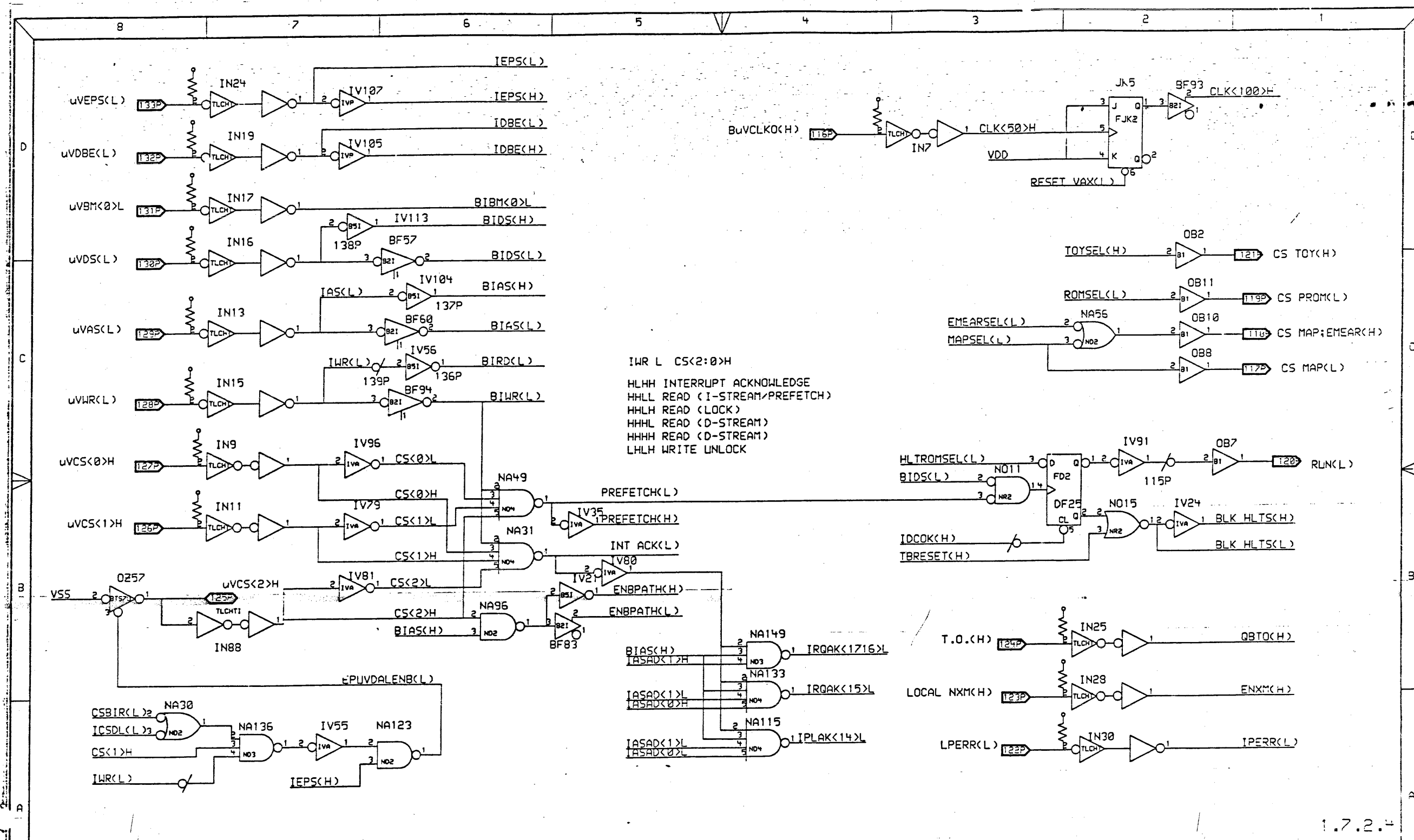


DRN:	DATE	ENG:	DATE	TITLE:
BARRY MASKAS	19-DEC-83	BARRY MASKAS	19-DEC-83	uVDAL I/O BUFFERS, ADDR LATCHES
CHK'D:	DATE	SHEET	OF	
BARRY MASKAS	19-DEC-83	1	1	
NEXT HIGHER ASSEMBLY:				SIZE CODE NUMBER REV
				C CS M7625 -0 -2 14

1.7.2.1







IWR L CS<2>(H)  
 HLH INTERRUPT ACKNOWLEDGE  
 HHLH READ (I-STREAM/PREFETCH)  
 HHLH READ (LOCK)  
 HHLH READ (D-STREAM)  
 HHHH READ (D-STREAM)  
 LHLH WRITE UNLOCK

1.7.2.4

\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	ECG NUMBER	DATE
1		

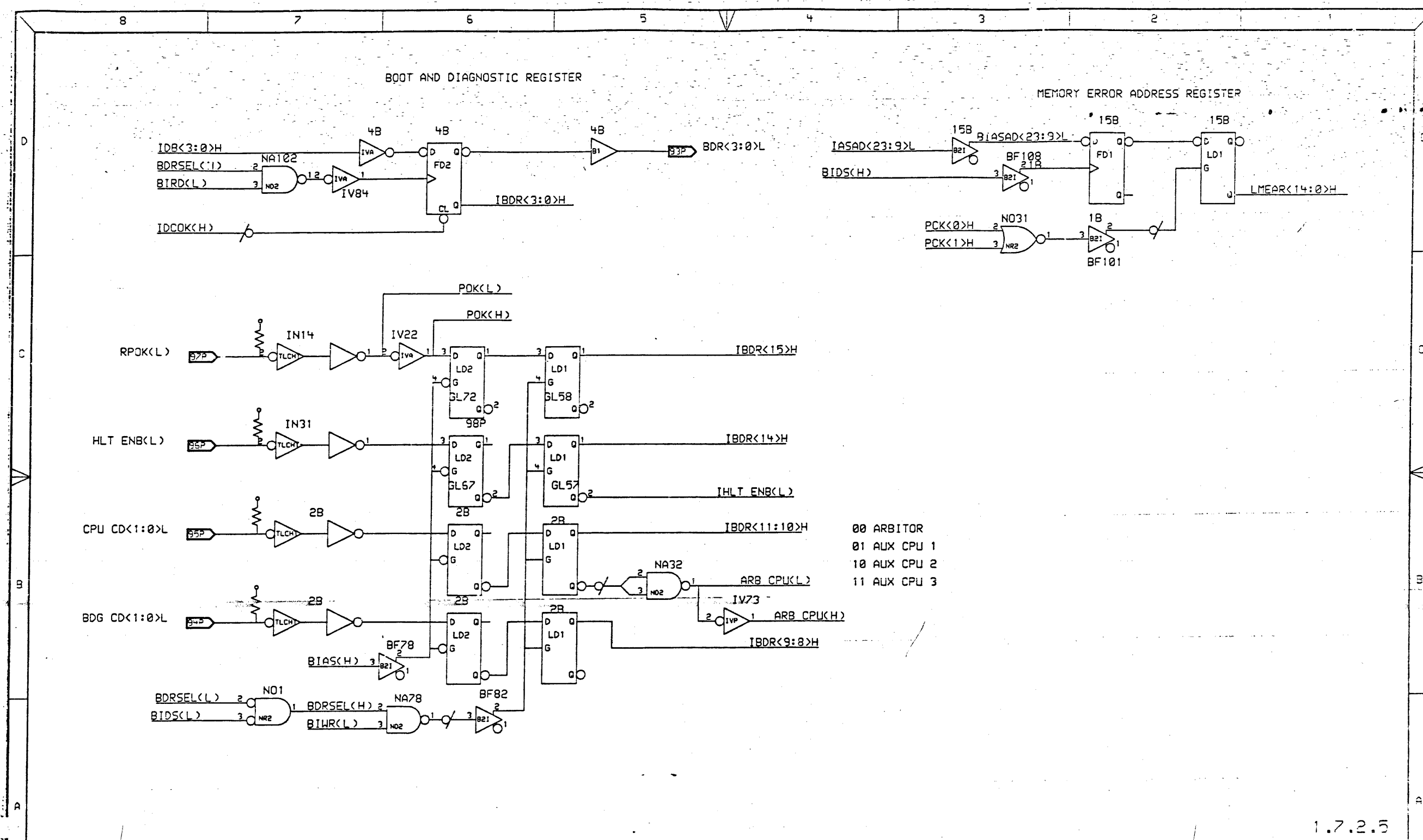
DRAWING  
 TITLE=GA1  
 ABBREV=GA1  
 CIRCUIT+TYPE=GATE+ARRAY  
 LAST+MODIFIED=Sat Oct 20 18:44:09 1984

digital

DRN: BARRY MASKAS  
 DATE: 19-DEC-83  
 CHK'D: BARRY MASKAS  
 DATE: 19-DEC-83

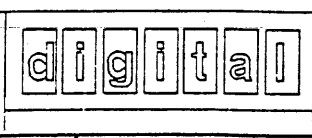
ENG: BARRY MASKAS  
 DATE: 19-DEC-83  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE: VAX INPUTS AND I/O PINS  
 SIZE CODE NUMBER REV  
 D CS M7535 -0 -35 3



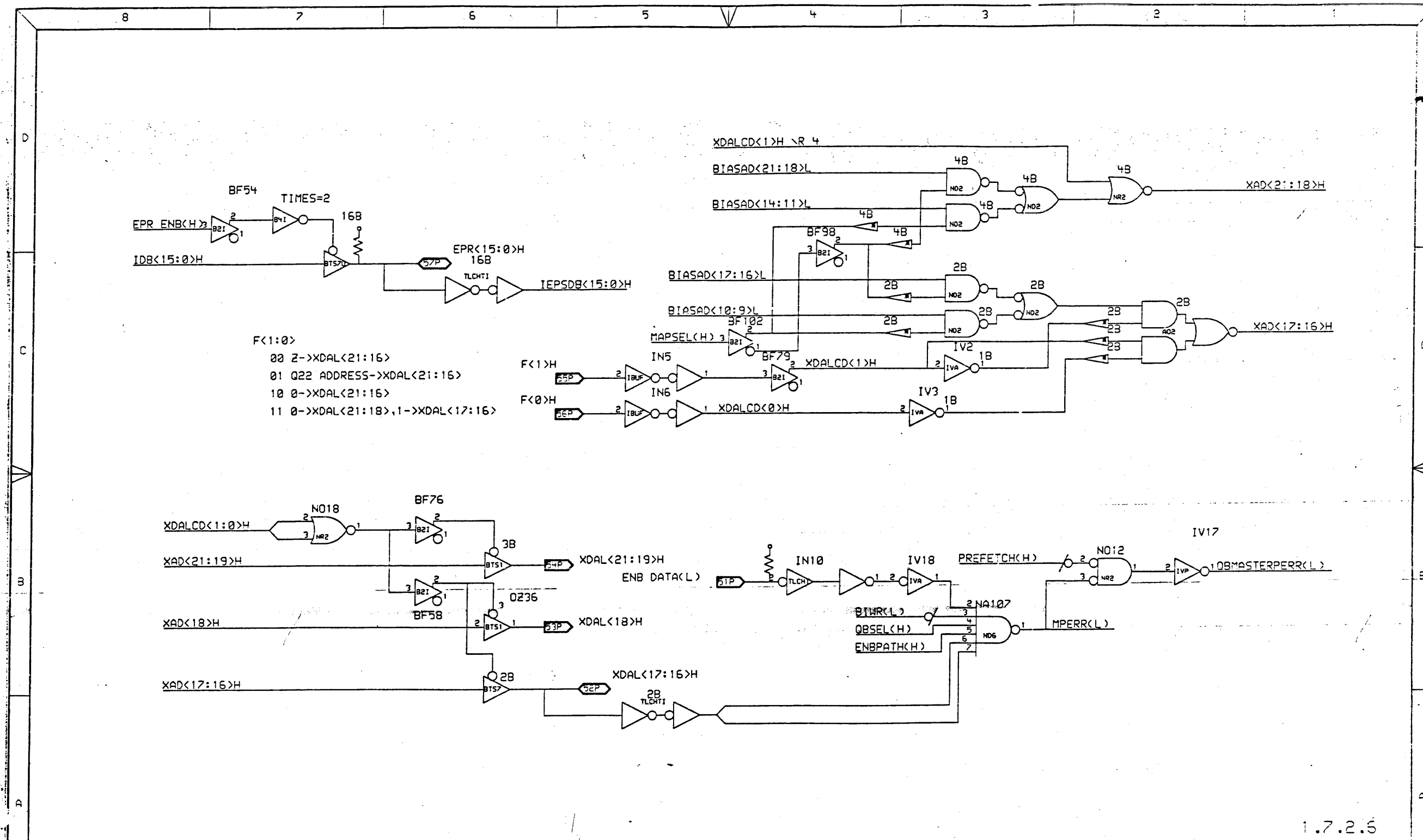
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984. DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		DRAWING	
REV	ECO NUMBER	DATE	TITLE
0		12-18-83	TITLE=GA1 ABBREV=GA1 CIRCUIT+TYPE=GATE+ARRAY LAST+MODIFIED=Sun Oct 7 16:53:31 1984



DRN:	DATE	ENG:	DATE	TITLE:
BARRY MASKAS	18-DEC-83	BARRY MASKAS	18-DEC-83	BOOT/DIAG REG., MEM ERR ADDR REG.
CHK'D:	DATE	SHEET	OF	
BARRY MASKAS	18-DEC-83	1	1	
NEXT HIGHER ASSEMBLY:				SIZE CODE
				D C5
				NUMBER
				M7606 -0 -36
				REV
				7

1.7.2.5



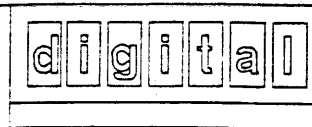
F<1:0>  
 00 Z->XDAL<21:16>  
 01 Q22 ADDRESS->XDAL<21:16>  
 10 0->XDAL<21:16>  
 11 0->XDAL<21:18>,1->XDAL<17:16>

1.7.2.6

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	TECO NUMBER	DATE
1		

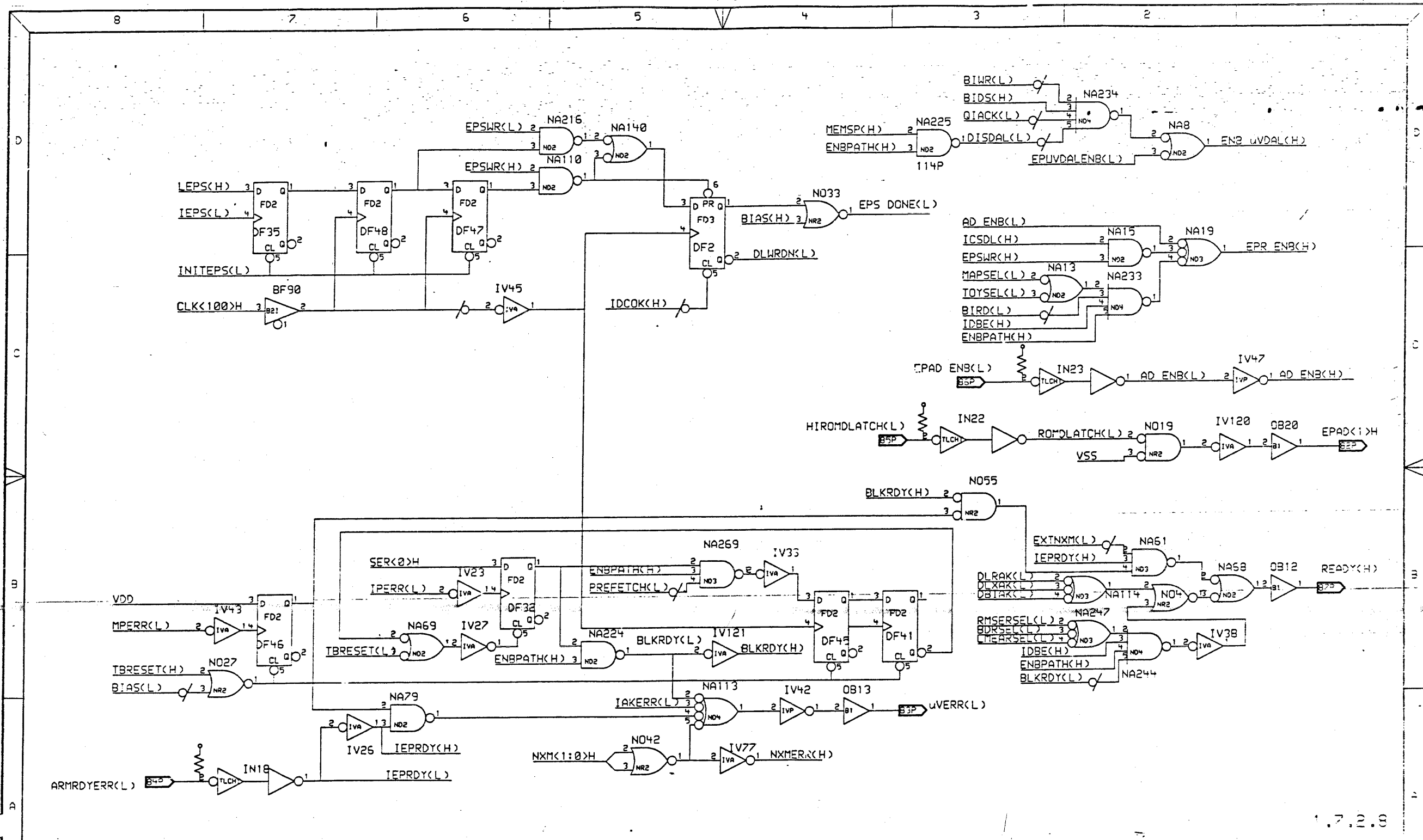
**DRAWING**  
 TITLE=GA1  
 ABBREV=GA1  
 CIRCUIT+TYPE=GATE+ARRAY  
 LAST+MODIFIED=NOT WRITTEN



DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83	TITLE: EPR BUS, XDAL BUS
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:	SIZE D
			NUMBER M7626-2-77	REV 3



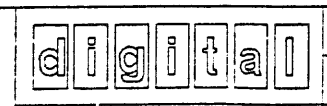




1.7.2.8

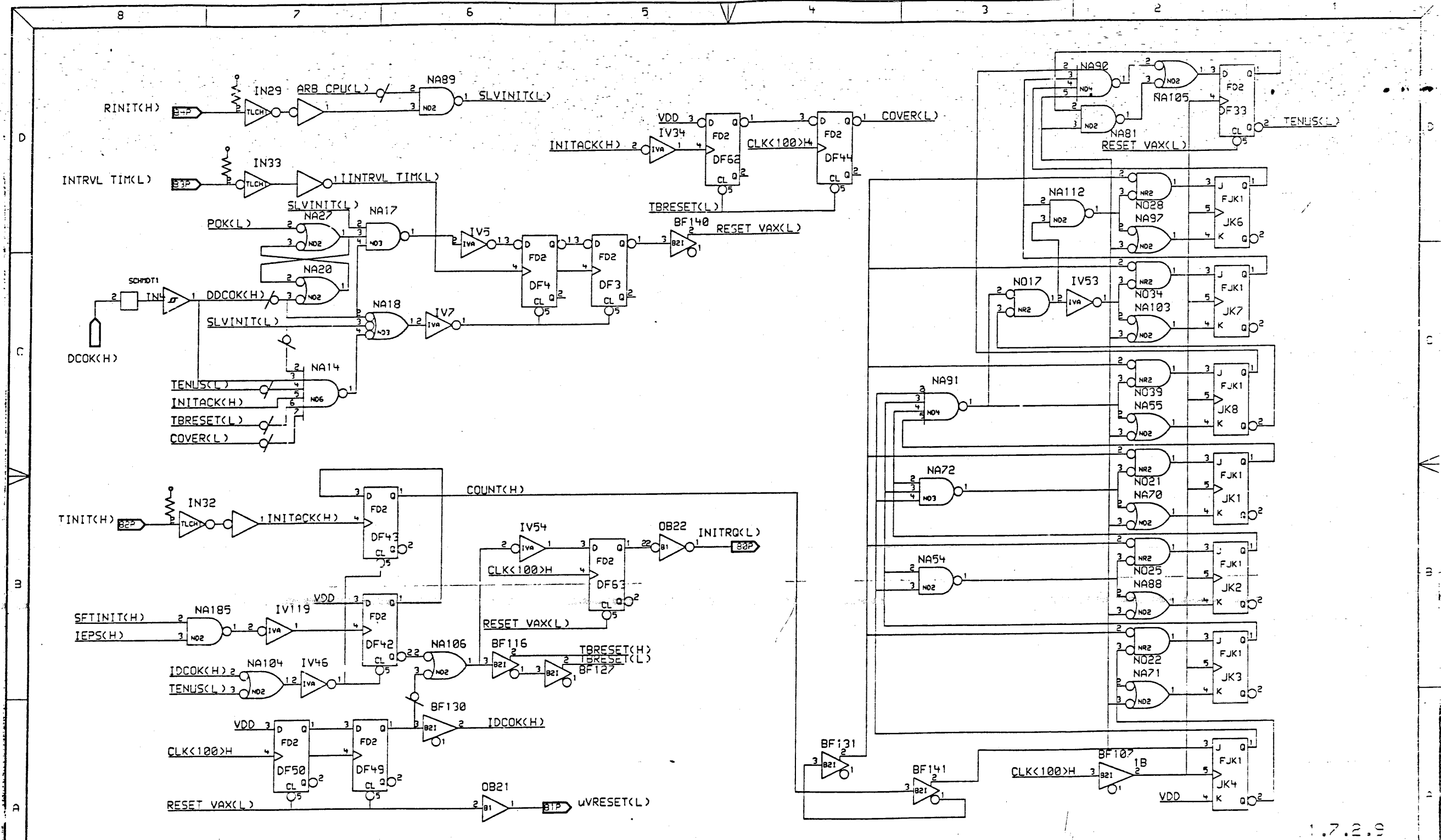
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY			DRAWING	
REV	ECG NUMBER	DATE	TITLE	ABBREV
1			GA	
CIRCUIT TYPE=GATE+ARRAY				
LAST MODIFIED=Sun Oct 7 17:15:18 1984				



DRN:	BARRY MASKAS	DATE:	19-DEC-83	ENG:	BARRY MASKAS	DATE:	19-DEC-83
CHK'D:	BARRY MASKAS	DATE:	19-DEC-83	SHEET:	1	OF:	1
NEXT HIGHER ASSEMBLY:				TITLE:			
				MISC. CONTROL STROBES			

SIZE CODE	D	NUMBER	05	REV	1
DATE	1984	REV	1	DATE	1984

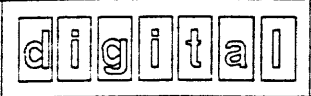


1.7.2.9

\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	ISS	NUMBER	DATE
8	1	1	11-13-83

DRAWING  
 TITLE=GA1  
 ABBREV=GA1  
 CIRCUIT+TYPE=GATE+ARRAY  
 LAST+MODIFIED=Sun Oct 7 17:19:49 1984

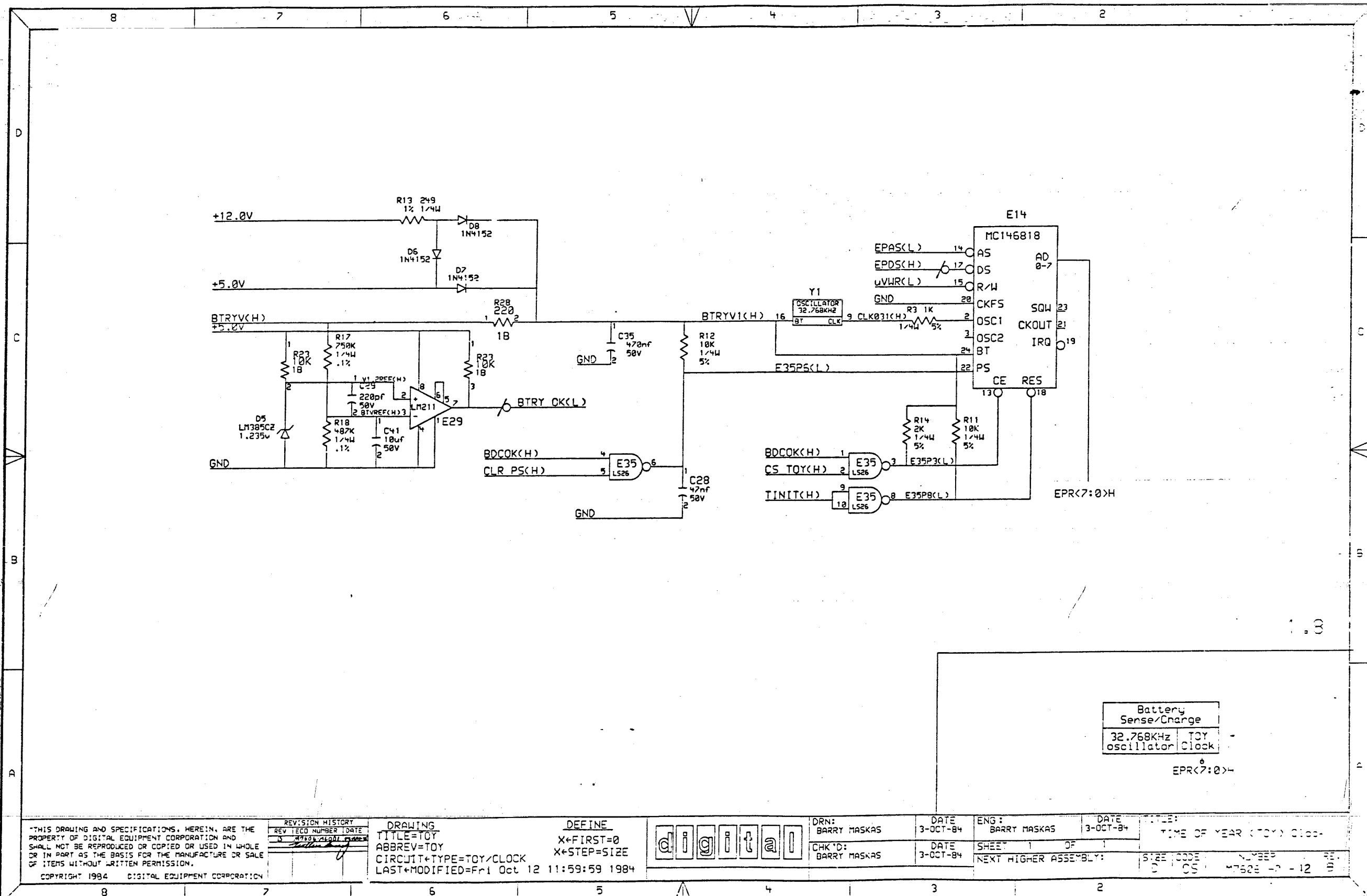


DRN:  
 BARRY MASKAS  
 CHK'D:  
 BARRY MASKAS

DATE  
 19-DEC-83  
 DATE  
 19-DEC-83  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:-

TITLE:  
 RESET COUNTER, POWER UP/DOWN CNTRL.  
 SEE CODE NUMBER  
 D 05 M7525 -2 -40





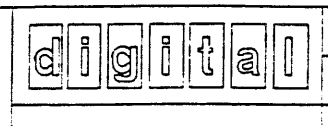
Battery  
Sense/Charge  
32.768KHz TOY  
oscillator Clock  
EPR<7:0>H

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	REV NO	NUMBER	DATE
1	3	3788	10/12/84

DRAWING  
TITLE=TOY  
ABBREV=TOY  
CIRCUIT+TYPE=TOY/CLOCK  
LAST+MODIFIED=Fr 1 Oct 12 11:59:59 1984

DEFINE  
X+FIRST=0  
X+STEP=SIZE

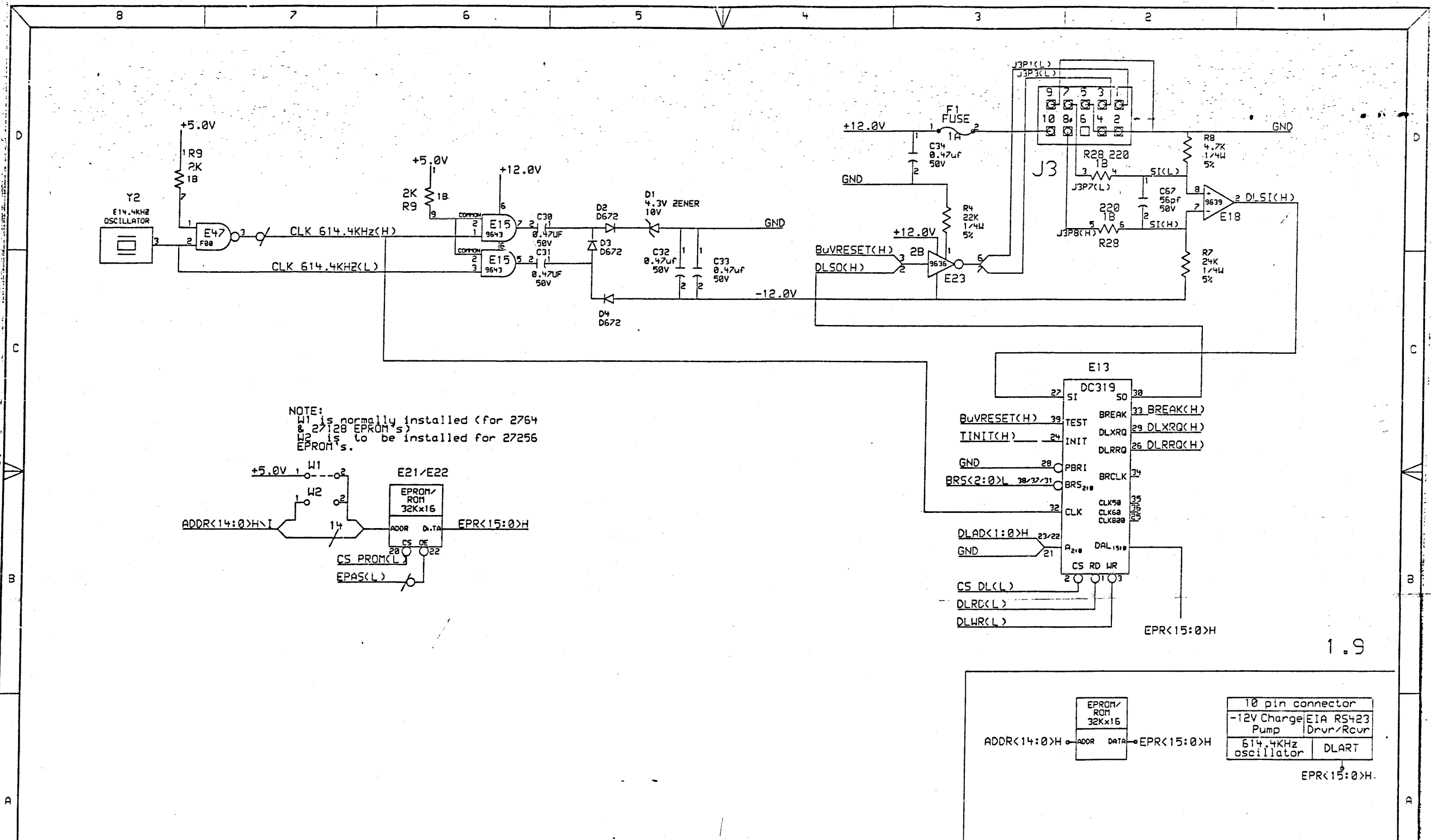


DRN: BARRY MASKAS  
CHK'D: BARRY MASKAS

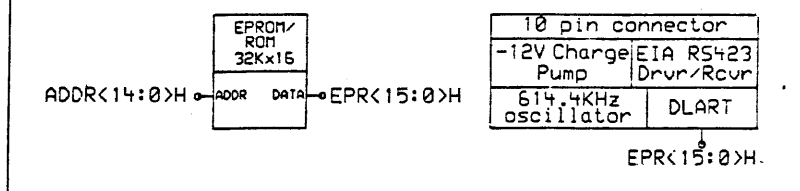
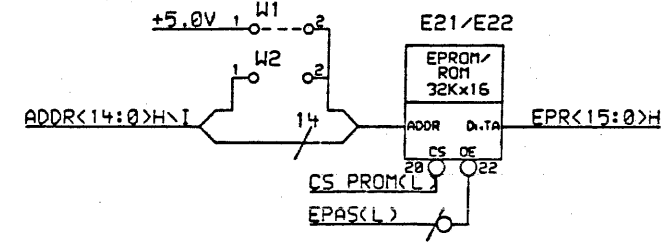
DATE 3-OCT-84  
DATE 3-OCT-84

ENG: BARRY MASKAS  
SHEET 1 OF 1  
NEXT HIGHER ASSEMBLY:

DATE 3-OCT-84  
TITLE: TIME OF YEAR (TOY) CLOCK  
SIZE: CODE NUMBER 0 CS 47525 - 12



NOTE:  
 W1 is normally installed (for 2764 & 27128 EPROM's)  
 W2 is to be installed for 27256 EPROM's.

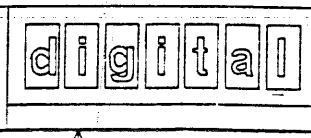


\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY	
REV	ECO NUMBER DATE
0	07-01-84 BARRY MASKAS

DRAWING  
 TITLE=COMM  
 ABBREV=COMM  
 CIRCUIT+TYPE=SERIAL+I/O  
 LAST+MODIFIED=Fri Oct 12 14:27:55 1984

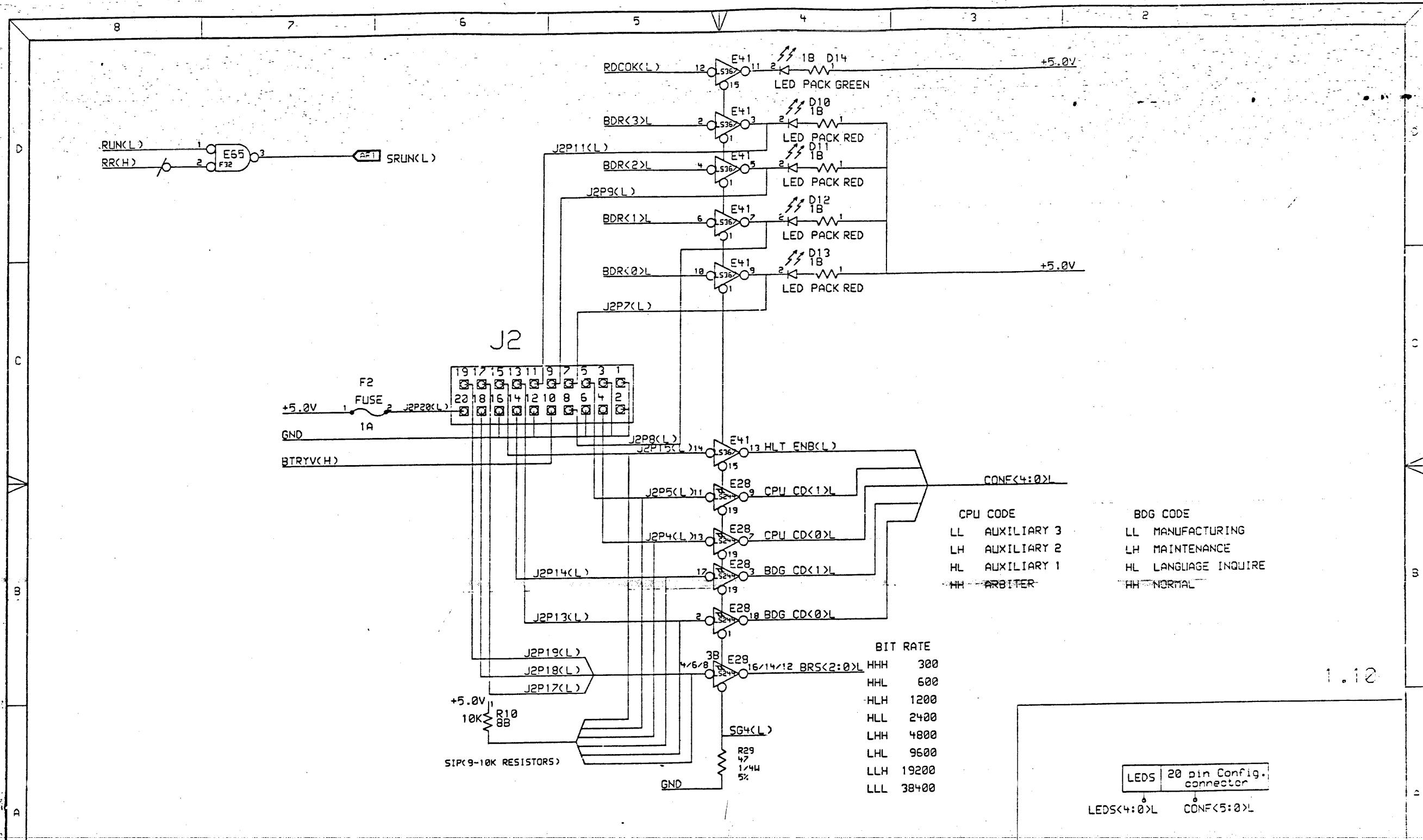
DEFINE  
 X+FIRST=0  
 X+STEP=SIZE



DRN:  
 BARRY MASKAS  
 DATE  
 3-OCT-84  
 CHK'D:  
 BARRY MASKAS  
 DATE  
 3-OCT-84

ENG:  
 BARRY MASKAS  
 DATE  
 3-OCT-84  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE:  
 Console Serial Line Interface  
 SIZE CODE NUMBER REV  
 D CS M7526 -0 -43 3



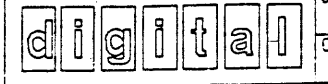
1.10

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

REV	ECO NUMBER	DATE
1		3-27-84

**DRAWING**  
 TITLE=LDS  
 ABBREV=LDS  
 CIRCUIT+TYPE=CONF+CONN  
 LAST+MODIFIED=Mon Oct 29 09:40:54 1984

**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE

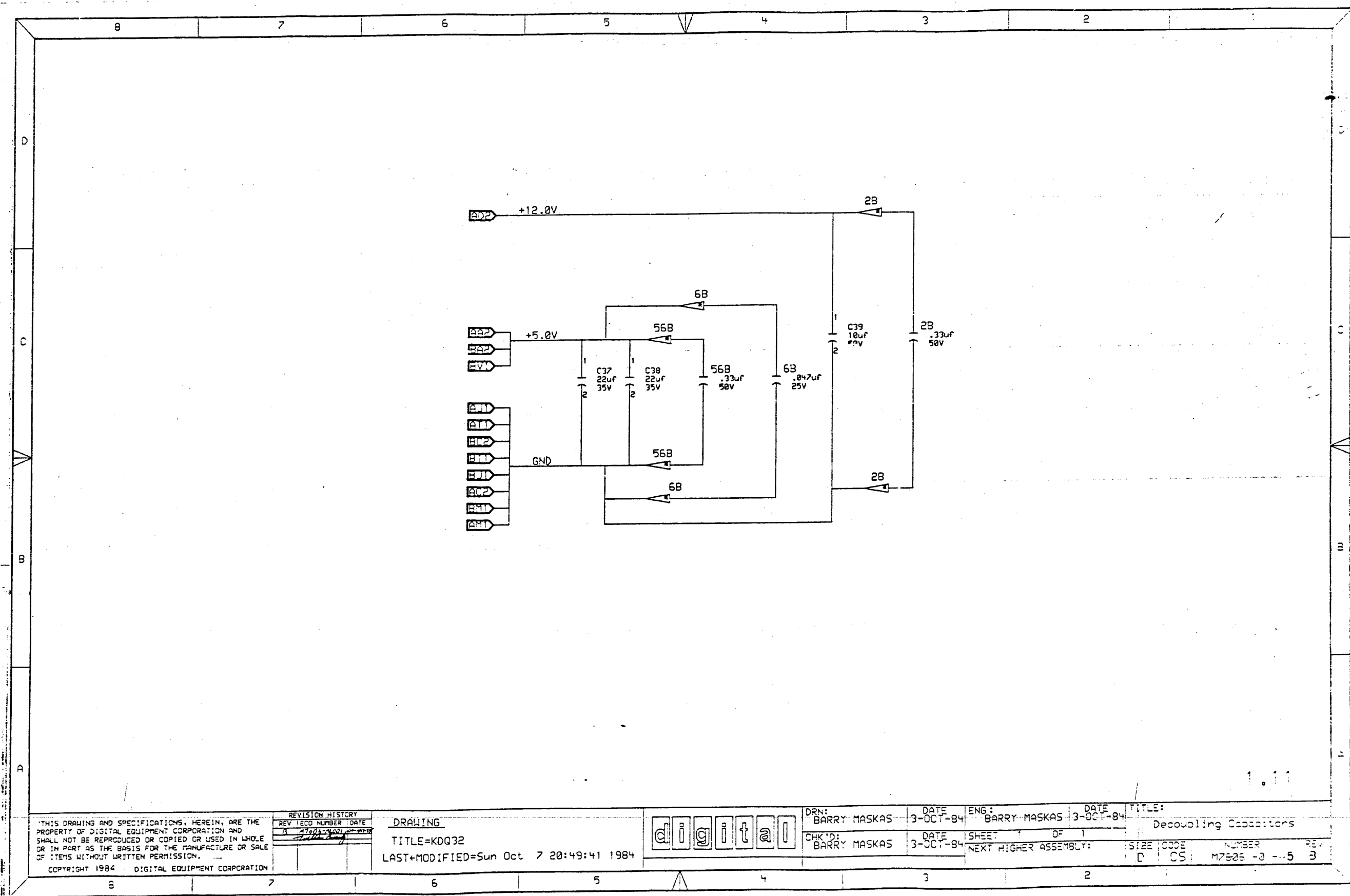


DRN: BARRY MASKAS  
 CHK'D: BARRY MASKAS

DATE: 3-OCT-84  
 DATE: 3-OCT-84

ENG: BARRY MASKAS  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE: LEDS and Configuration Connector  
 SIZE: D CS  
 NUMBER: M7505-2-44



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

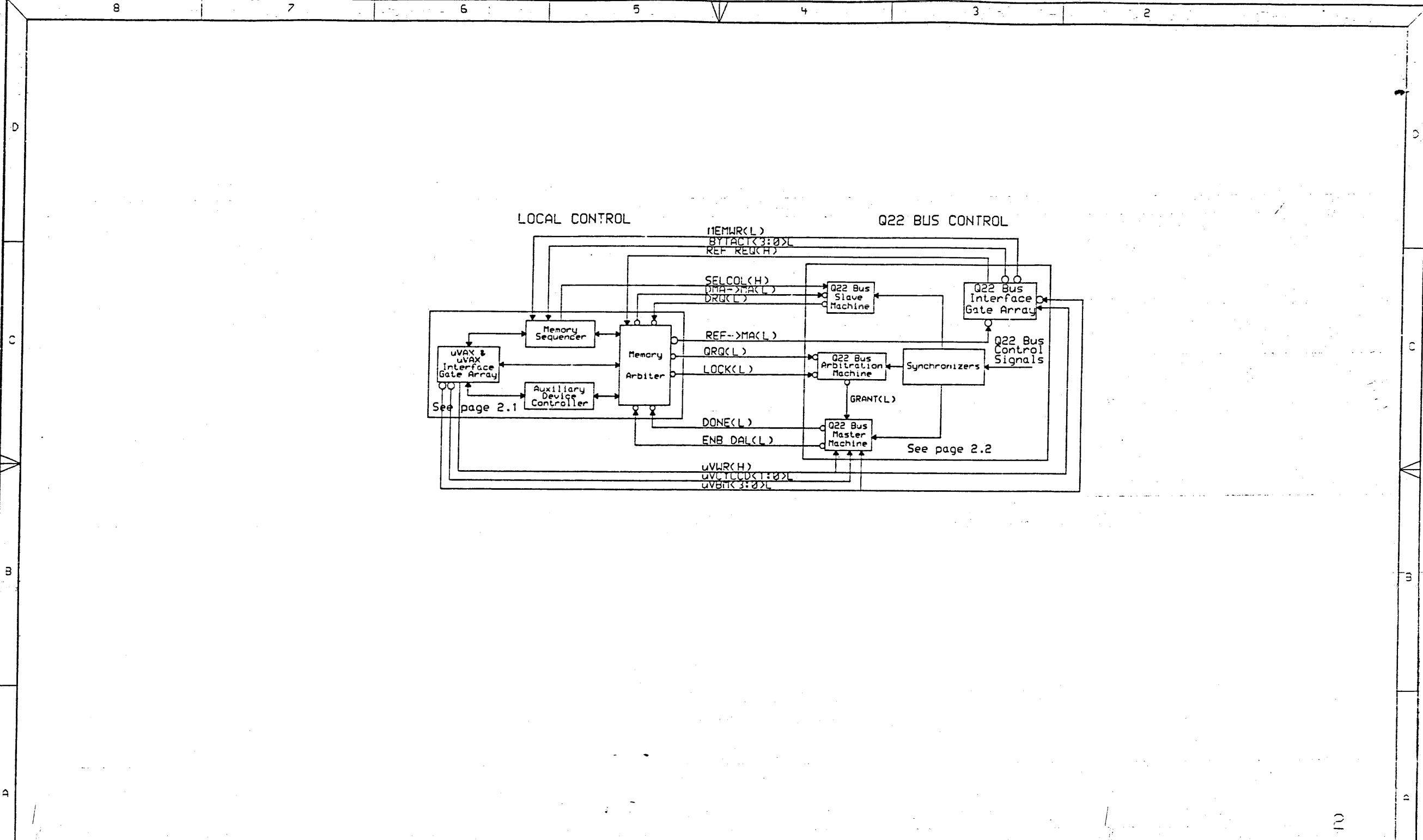
REVISION HISTORY		
REV	ECO NUMBER	DATE
1	17004-2-001	03-01-84

DRAWING  
 TITLE=K0032  
 LAST\*MODIFIED=Sun Oct 7 20:49:41 1984



DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84	TITLE: Decoupling Capacitors
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1	OF 1	NEXT HIGHER ASSEMBLY:
		SIZE D	CODE CS	NUMBER M7525 -3 -5
				REV 3





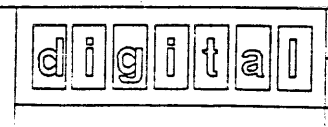
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
0		8-DEC-83

**DRAWING**

TITLE=CTLBLOCK  
 ABBREV=ct1  
 CIRCUIT+TYPE=CONTROL  
 LAST\*MODIFIED=Mon Oct 29 09:44:18 1984

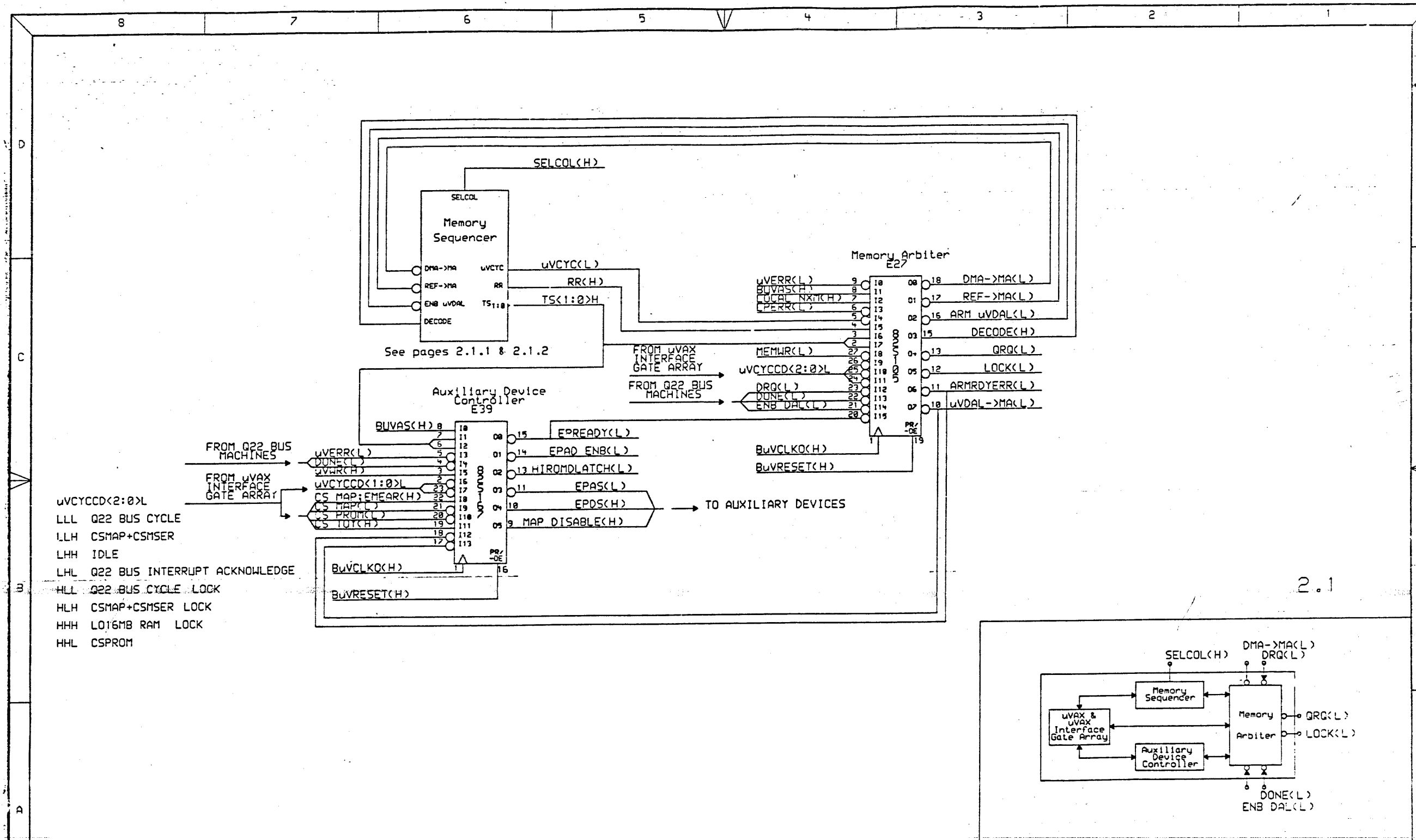


DRN: BARRY MASKAS  
 DATE: 8-DEC-83  
 CHK'D: R. MCNAMARA  
 DATE: 9-DEC-83

ENG: BARRY MASKAS  
 DATE: 8-DEC-83  
 SHEET: 0F  
 NEXT HIGHER ASSEMBLY:

TITLE: KA630 State Machines

SIZE	CODE	NUMBER	REV
1	CS	M7505-0-46	3



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
1	1760	ALDOU

**DRAWING**  
 TITLE=UVAX MACHINE  
 ABBREV=uVMach  
 CIRCUIT+TYPE=control  
 LAST+MODIFIED=Sun Oct 7 18:51:31 1984

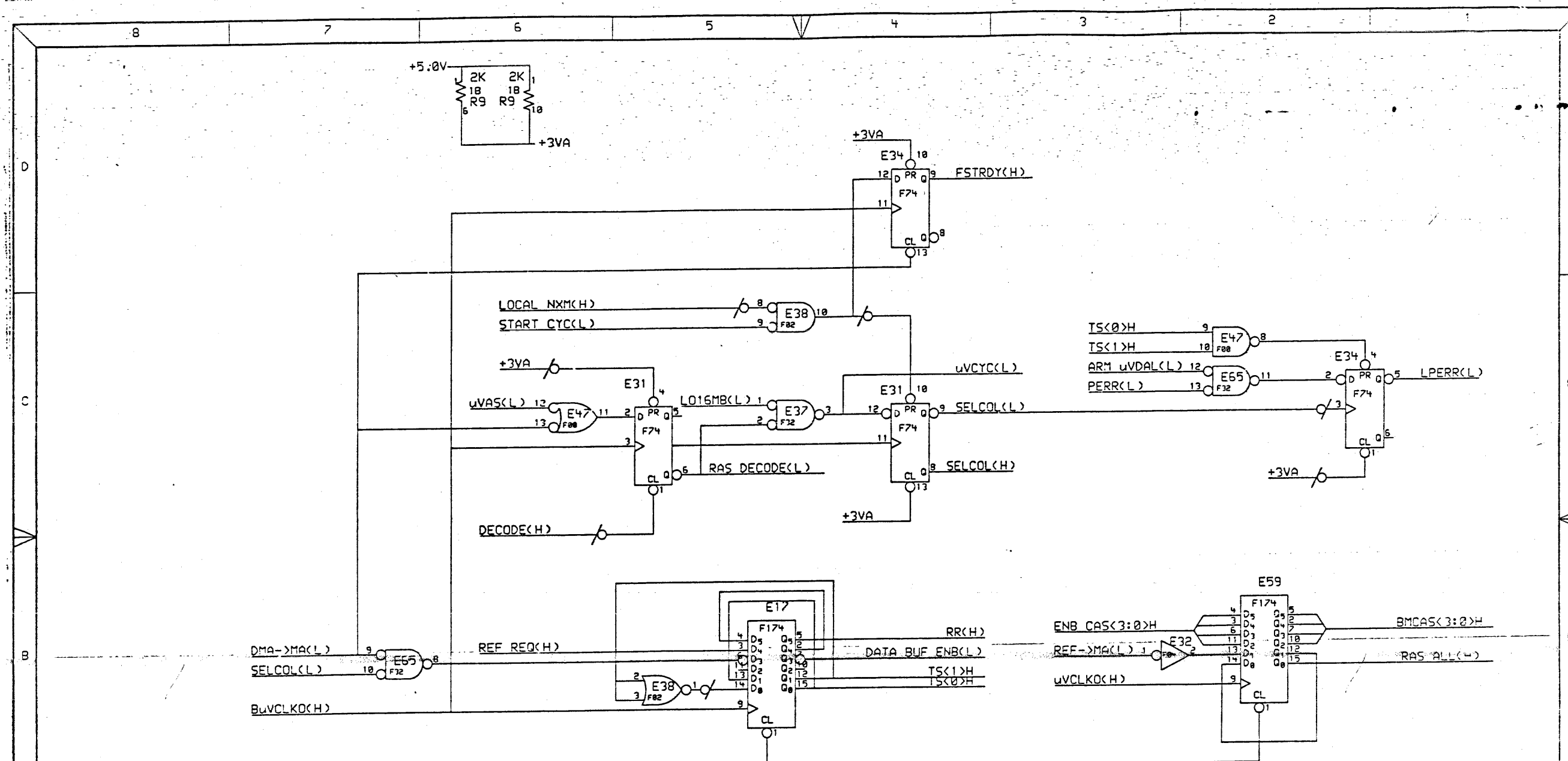
**DEFINE**  
 X\*FIRST=0  
 X\*STEP=SIZE

**digital**

DRN: BARRY MASKAS  
 CHK'D: BARRY MASKAS  
 DATE: 3-OCT-84

ENG: BARRY MASKAS  
 SHEET: OF  
 DATE: 3-OCT-84  
 NEXT HIGHER ASSEMBLY:

DATE: 3-OCT-84  
 TITLE: uVAX Cycle Controller  
 SIZE: CODE: NUMBER: REV: 0 CS M7505 -0 -47 =



TS<1:0> STATE TABLE (uVAX Microcycle Counter)

Time	TS<1>	TS<0>	Description
T4	00	01	first uVAX CLK0 after BuVRESET
T1	01	11	
T2	11	10	
T3	10	00	

2.1.1

\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

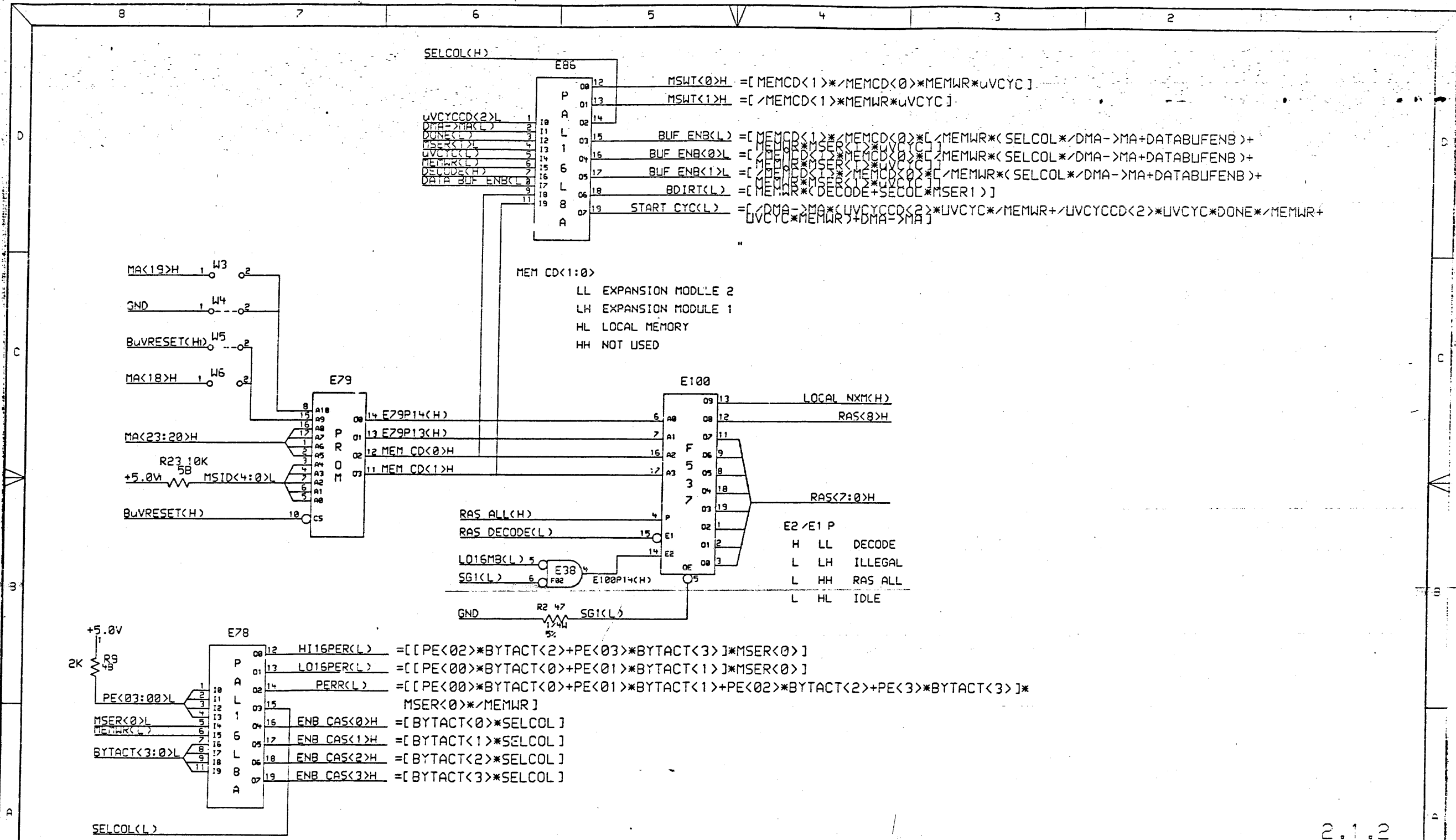
REV	ECO NUMBER	DATE
B	M7635-2-43	11/11/83

DRAWING  
TITLE=MEM CTRLR  
ABBREV=MEMCTRL  
CIRCUIT+TYPE=MEM+CTRL  
LAST+MODIFIED=Fri Oct 12 14:23:21 1984



DRN:	DATE	ENG:	DATE
BARRY MASKAS	18-DEC-83	BARRY MASKAS	18-DEC-83
CHK'D:	DATE	SHEET	OF
BARRY MASKAS	18-DEC-83	1	1

TITLE:	SIZE	CODE	NUMBER	REV
MEMORY SEQUENCER	D	CS	M7635-2-43	B



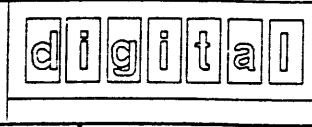
2.1.2

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE
B	117505	MICRO

**DRAWING**  
 TITLE=MEM CTRLR  
 ABBREV=MEM+CTRLR  
 CIRCUIT+TYPE=MEM+DECODE  
 LAST+MODIFIED=Fri Oct 12 14:19:03 1984

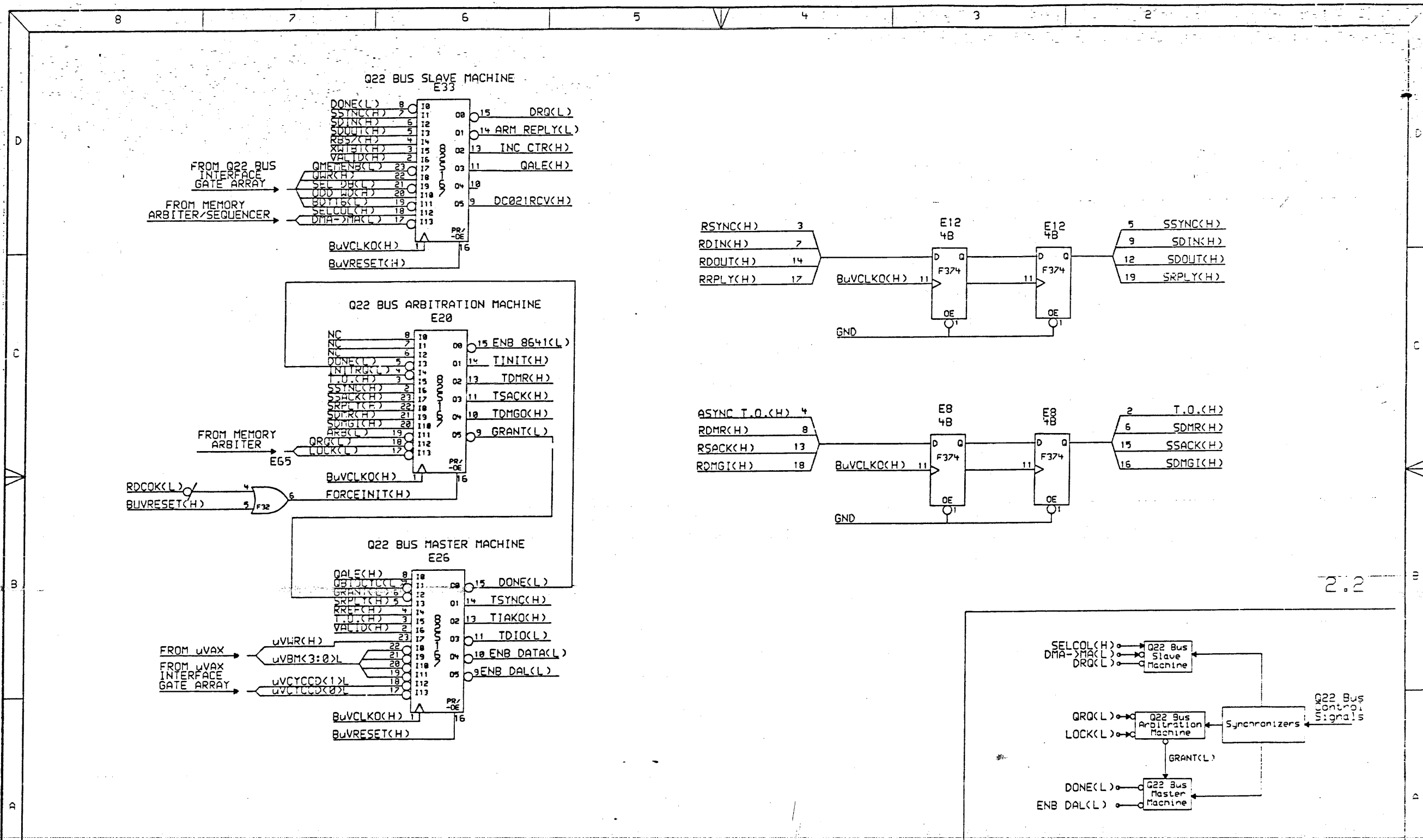
**DEFINE**  
 X+FIRST=0  
 X+STEP=SIZE



DRN: BARRY MASKAS  
 DATE: 3-OCT-84  
 CHK'D: BARRY MASKAS  
 DATE: 3-OCT-84

ENG: BARRY MASKAS  
 DATE: 3-OCT-84  
 SHEET 1 OF 1  
 NEXT HIGHER ASSEMBLY:

TITLE: MEMORY SEQUENCER SUPPORT  
 SIZE CODE: D CS  
 NUMBER: 17505-2-19  
 REV: B



2.2

*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION	REVISION HISTORY REV. TECO NUMBER DATE 01 11/15/84 R. McNamara	DRAWING TITLE=QBUS MACHINE ABBREV=CTRL CIRCUIT+TYPE=QBUS+CNTRL LAST+MODIFIED=Fri Oct 12 12:21:22 1984	DEFINE X=1951=0 X+STEP=SIZE	digital	DRN: R. McNamara CHK'D: R. McNamara	DATE 3-OCT-84 DATE 3-OCT-84	ENG: R. McNamara SHEET 1 OF 1	DATE 3-OCT-84 NEXT HIGHER ASSEMBLY:	TITLE: Q22 BUS STATE MACHINES SIZE CODE: D 105 NUMBER: M7506-00-50
	COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION								

NAME 23\_053L1\_00\_E27 ;MEMORY ARBITER MACHINE  
 OPTION PRESET  
 INPUT -EPRDY, -ENBADR, -DONE, -DRQ, -CYCD0, -CYCD1, -CYCD2,  
 INPUT -MEMWR, S0, S1, RR, -VCYC, -LPERR, LOCALNXM, BVAS, -VERR  
 OUTPUT -DALMA, -RDYERR, -LOCK, -GRQ, DECODE, -ARMDAL, -REFMA, -DMAMA

LOCAL FLAG ;LOCK FLAG PREVENTS VAX FROM CHANGING MEMORY UNTIL Q22 BUS  
 ;MASTERSHIP, Q22 BUS AND REFRESH CYCLES ARE ALLOWED.  
 MACHINE 23\_053L1\_00\_E27

STATE POWERUP ;LET REFRESH OR Q22 SLAVE THROUGH UNTIL Q22 BUS OWNED.  
 IF [ -DONE \* S1 \* -S0 \* RR ] THEN FINISHUP [ -DMAMA, -DALMA, -DECODE,&  
 -ARMDAL, -FLAG ]  
 IF [ -DONE \* DRQ ] THEN FINISHUP [ -DMAMA, -DALMA, -DECODE,&  
 -ARMDAL, -FLAG ]  
 IF [ DONE \* -ENBADR \* CYCD0 ] THEN VXT12 [ RDYERR, ARMDAL ] ;LOCAL MISS.  
 IF [ DONE \* ENBADR \* CYCD0 ] THEN Q22MT3 [ -DALMA ] ;LOCAL MISS AND GLOBAL HIT  
 IF [ DONE \* CYCD1 \* -CYCD0 ] THEN VXT12 [ RDYERR ] ;FINISH UP THE MAP CYCLE.

STATE SYNCUP, NUMBER -LLLLH  
 GOTO FINISHUP [ -DMAMA, -DALMA, -DECODE, -ARMDAL ]

STATE FINISHUP, NUMBER -HLLLH ;Q22 SLAVE CYCLES HAVE TOP PRIORITY, REFRESH  
 IF [ -LPERR \* DRQ ] THEN Q22SLAVE [ DMAMA ]  
 IF [ -LPERR \* RR \* -DRQ ] THEN REFRESH [ REFMA ] ;LPERR IS FOR OPTIMIZATION.  
 IF [ FLAG \* -RR \* -DRQ ] THEN VXT10 ;IF FLAGWAIT FOR DONE.  
 IF [ -S1 \* -S0 \* -EPRDY \* -FLAG \* -RR \* -DRQ ] THEN VXSLAVE [ DALMA ]

STATE REFRESH, NUMBER -HHHLH  
 GOTO RT2

STATE RT2, NUMBER -LLLLL  
 GOTO RT3

STATE RT3 ;WHEN REFRESH, RAS(8:0)H AND LOCALNXM(H) ASSERT.  
 GOTO RT4

STATE RT4  
 GOTO RT5 [ -RDYERR ]

STATE RT5  
 GOTO RT6 [ -REFMA ]

STATE RT6  
 GOTO SYNCUP [ -DECODE, -RDYERR ]

STATE Q22SLAVE, NUMBER -HLLLH ;LOCAL MEMORY IS SLAVE TO Q22 BUS MASTER.  
 GOTO RT2 [ DECODE ]

STATE VXSLAVE, NUMBER -HLLLH ;LOCAL MEMORY IS SLAVE TO VAX.  
 GOTO VXT3 [ DECODE ]

STATE VXT3, NUMBER -LHLLL  
 IF [ S1 \* -S0 \* VCYC \* BVAS \* CYCD2 \* -DONE ] THEN READY [ ARMDAL, RDYERR ]  
 IF [ S1 \* -S0 \* VCYC \* BVAS \* -CYCD2 \* -CYCD1 \* -CYCD0 \* DONE ] THEN READY &  
 [ ARMDAL, RDYERR ]  
 IF [ S1 \* -S0 \* VCYC \* CYCD1 \* CYCD0 \* DONE \* EPRDY ] THEN READY [ ARMDAL,&  
 RDYERR ]  
 IF [ S1 \* -S0 \* -BVAS \* -VCYC ] THEN FINISHUP [ -DMAMA, -DALMA,&  
 -DECODE, -ARMDAL ] ;IF NOTHING TO DO GO LOOK FOR REFRESH OR Q22 SLAVE.  
 IF [ S1 \* -S0 \* VCYC \* BVAS \* -CYCD2 \* -DONE ] THEN RT4 [ GRQ, LOCK, FLAG ]  
 IF [ S1 \* -S0 \* -VCYC \* BVAS ] THEN VXT41 [ -DECODE ] ;WHAT CYCLE TO DO?

STATE VXT41 ;FIND OUT WHAT KIND OF CYCLE TO RUN?  
 IF [ -VCYC \* CYCD2 \* -CYCD1 \* CYCD0 ] THEN Q22CYC [ GRQ, -DALMA, ARMDAL ]  
 IF [ -VCYC \* -CYCD2 \* -CYCD1 \* CYCD0 ] THEN PROMCYC [ RDYERR ]  
 IF [ -VCYC \* -CYCD1 \* -CYCD0 ] THEN RT4  
 IF [ -VCYC \* CYCD2 \* CYCD1 \* -CYCD0 ] THEN Q22CYC  
 IF [ -VCYC \* -CYCD2 \* CYCD1 \* -CYCD0 ] THEN Q22CYC [ LOCK ]  
 IF [ -VCYC \* CYCD2 \* CYCD1 \* CYCD0 ] THEN Q22CYC [ ARMDAL ]  
 IF [ -VCYC \* -CYCD2 \* CYCD1 \* CYCD0 ] THEN Q22CYC [ LOCK, ARMDAL ]

STATE READY ;CYCLE IS RUNNING AND EPR MACHINE ASSERTS EPRDY  
 IF [ -S1 \* S0 ] THEN VXT6 ;TO STROBE MEMCD<1:0> OR MSER WRITE DATA.

STATE VXT6 ;IF VAX ERROR PIN IS ASSERTED, EXTRA uCYCLE OCCURS.  
 IF [ VERR ] THEN VXT9 [ -LOCK, -GRQ ] ;FREE Q22 BUS ON ERRORS OR MEMORY WRITES.  
 IF [ -VERR \* -MEMWR ] THEN VXT7 [ -GRQ, -DECODE, -RDYERR, -FLAG ]  
 IF [ -VERR \* MEMWR ] THEN VXT7 [ -LOCK, -DECODE, -RDYERR, -FLAG, -GRQ ]

STATE VXT7, NUMBER -LLLLH  
 GOTO VXT8 [ -DMAMA, -DECODE, -DALMA, -ARMDAL ]

STATE VXT8, NUMBER -HLLLH ;IF LOCAL PARITY ERROR THEN PROTECT MEMORY AND WAIT  
 IF [ LPERR ] THEN VXTHOLD [ -LOCK ]  
 IF [ -LPERR \* -RR \* -DRQ ] THEN VXSLAVE [ DALMA ] ;ALLOW Q22 IAKS.  
 IF [ -LPERR \* RR \* -DRQ ] THEN REFRESH [ REFMA ] ;ALLOW REFRESH.  
 IF [ -LPERR \* DRQ ] THEN Q22SLAVE [ DMAMA ] ;ALLOW Q22 SLAVE.

STATE VXTHOLD ;FORCE VAX MACHINE CHECK, THEN ALLOW MEMORY CYCLES  
 IF [ BVAS \* S1 \* -S0 \* -VERR ] THEN VXT9

STATE VXT9 ;STALL ONE MICROCYCLE IF VAX SAW AN ERROR.  
 IF [ S1 \* S0 \* -LOCALNXM ] THEN VXT7 [ -DECODE, -RDYERR ]  
 IF [ S1 \* S0 \* LOCALNXM ] THEN RT3 [ -DECODE, -GRQ, -RDYERR, -ARMDAL ]

STATE VXT10 ;STALL UNTIL Q22 BUS MASTERSHIP THEN RUN READ LOCK CYCLE.  
 IF [ S1 \* -S0 \* DONE \* BVAS \* -CYCD2 \* -CYCD1 \* -CYCD0 ] THEN FINISHUP &  
 [ -FLAG ]  
 IF [ S1 \* -S0 \* -DONE \* BVAS \* -CYCD2 \* -CYCD1 \* -CYCD0 ] THEN FINISHUP  
 IF [ S1 \* -S0 \* -DONE \* -BVAS ] THEN VXT8 [ -FLAG, -DMAMA, -GRQ, -DALMA,&  
 -ARMDAL ]

STATE PROMCYC ;EPR MACHINE RUNS A PROM CYCLE WHEN RDYERR IS ASSERTED.  
 IF [ EPRDY ] THEN RT4 ;EPR MACHINE ASSERTS EPRDY WHEN PROM CYCLE IS DONE.

STATE VXT12 ;EPR MACHINE IS DOING THE SYNCING.  
 IF [ EPRDY ] THEN READY [ RDYERR ] ;EPR MACHINE IS DONE AND VAX  
 ;IS FINISHING.

STATE Q22CYC ;Q22 BUS DATA CYCLE OR IA K.  
 IF [ S1 \* S0 ] THEN POWERUP [ GRQ ]

STATE Q22MT3 ;GET IN STEP AND GO RUN THE MISS-HIT CYCLE, TELL EPR MACHINE.  
 IF [ S1 \* -S0 ] THEN Q22MT4 [ DMAMA, RDYERR ]

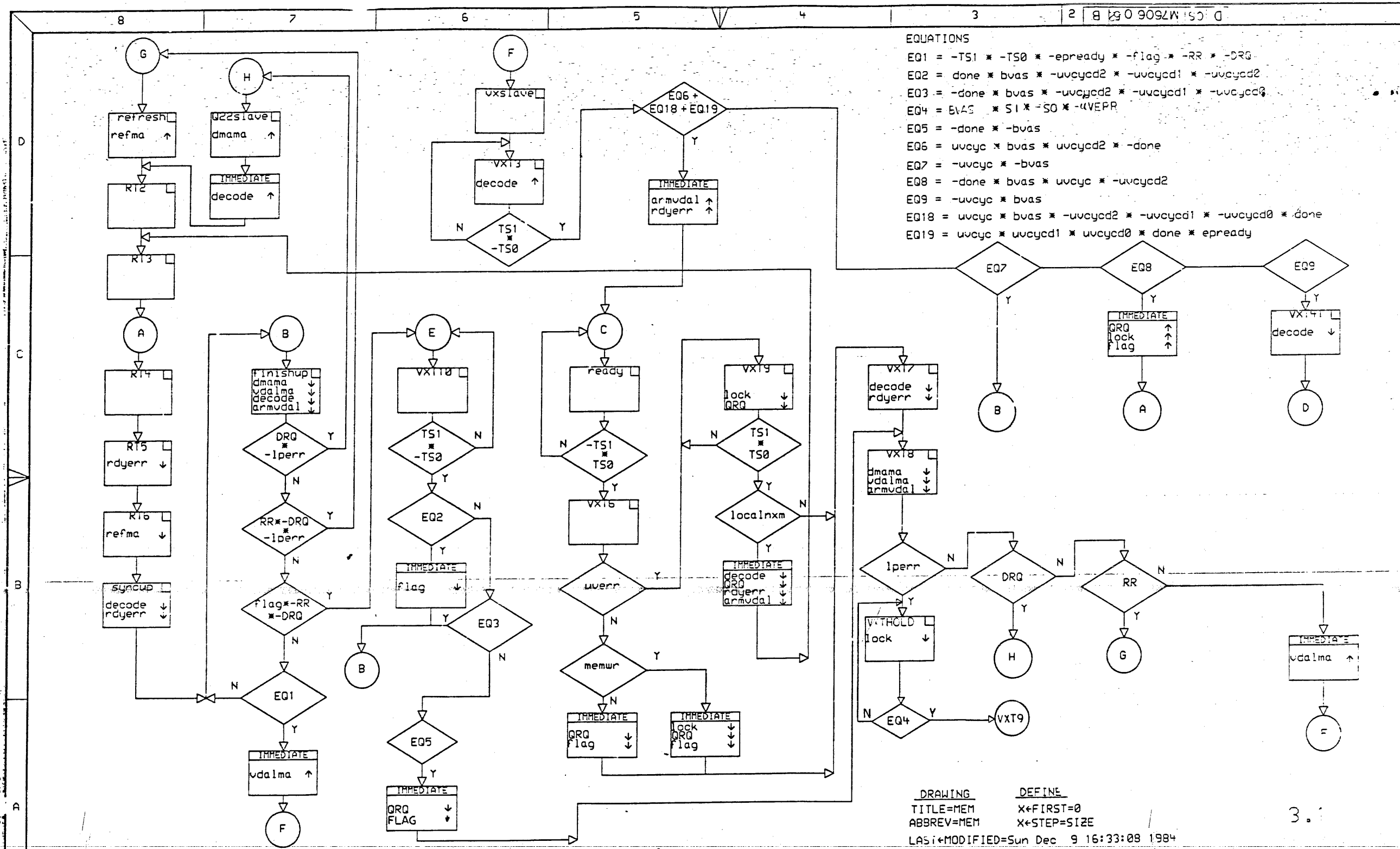
STATE Q22MT4, NUMBER -HLLLH  
 GOTO VXSLAVE

END

THIS DRAWING AND SPECIFICATIONS  
 HEREIN ARE THE PROPERTY OF  
 DIGITAL EQUIPMENT CORPORATION AND  
 SHALL NOT BE REPRODUCED OR COPIED  
 OR USED IN WHOLE OR IN PART AS  
 THE BASIS FOR THE MANUFACTURE OR  
 SALE OF ITEMS WITHOUT WRITTEN  
 PERMISSION. COPYRIGHT © 1989,  
 DIGITAL EQUIPMENT CORPORATION

REVISIONS	
CHK	CHANGE NO. REV.

digital	DATE	ENG.	DATE	TITLE:
	09-AUG-95	R. MCNAMARA	09-AUG-95	MEMORY ARBITER LISTING
CHK'D	DATE	BOARD LOCATION:	SIZE CODE	NUMBER
R. MCNAMARA	09-AUG-95	SHEET 1 OF 1	D CS	M7606-0-51
DSK:9.12P(4.550)	09-AUG-95 07:40	NEXT HIGHER ASSEMBLY:	REV.	A
FIRST USED ON OPTION/MODEL:				



EQUATIONS

EQ1 = -TS1 \* -TS0 \* -epready \* -flag \* -RR \* -DRQ

EQ2 = done \* bvas \* -uvcyd2 \* -uvcyd1 \* -uvcyd0

EQ3 = -done \* bvas \* -uvcyd2 \* -uvcyd1 \* -uvcyd0

EQ4 = bvas \* S1 \* -S0 \* -UVEPR

EQ5 = -done \* -bvas

EQ6 = uvyc \* bvas \* uvcyd2 \* -done

EQ7 = -uvyc \* -bvas

EQ8 = -done \* bvas \* uvyc \* -uvcyd2

EQ9 = -uvyc \* bvas

EQ18 = uvyc \* bvas \* -uvcyd2 \* -uvcyd1 \* -uvcyd0 \* done

EQ19 = uvyc \* uvcyd1 \* uvcyd0 \* done \* epready

DRAWING DEFINE

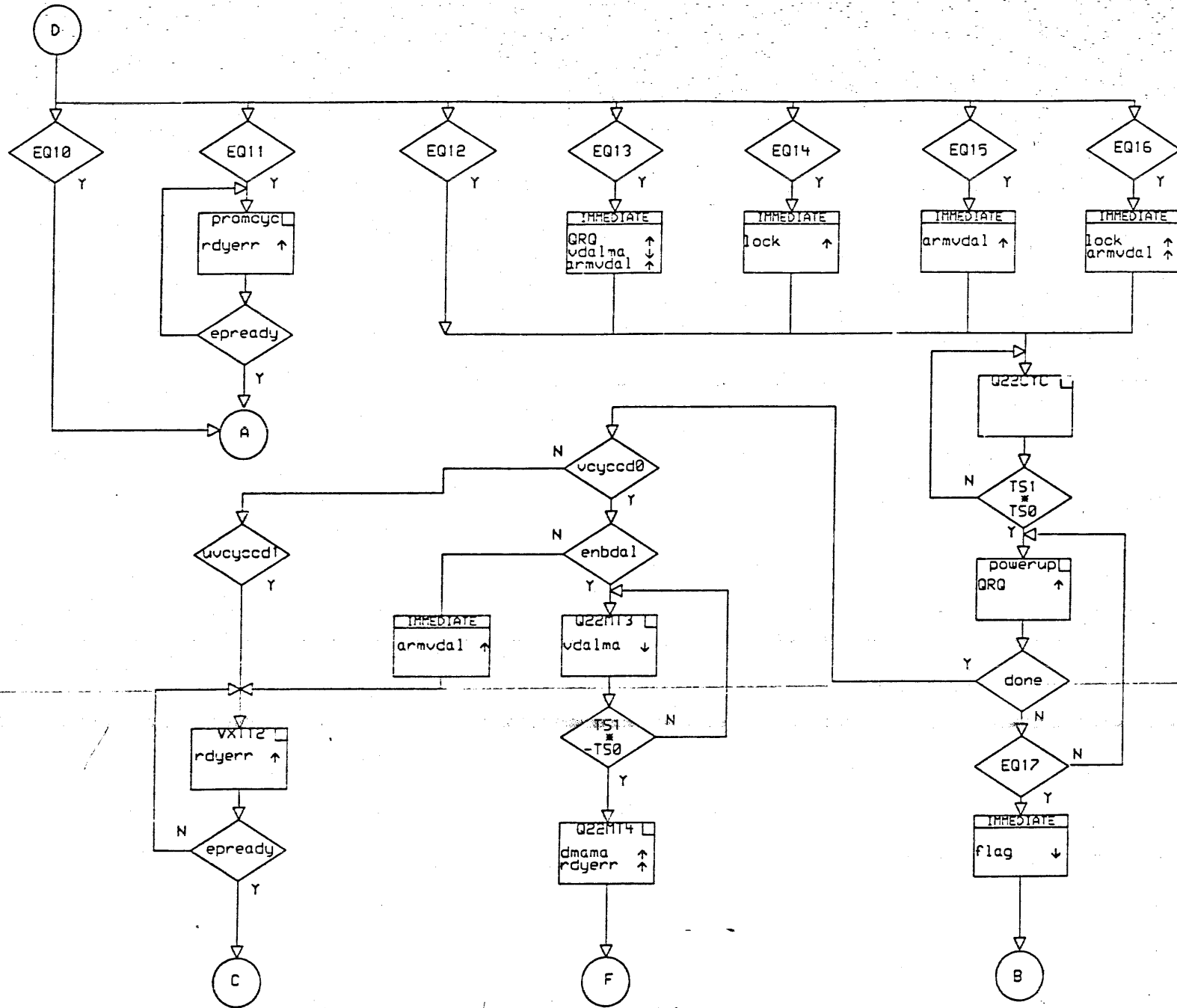
TITLE=MEM X\*FIRST=0

ABBREV=MEM X\*STEP=SIZE

LASi\*MODIFIED=Sun Dec 9 16:33:08 1984

REVISION	CHANGE NO.	REV.
1		

digit	DRN BARRY MASKAS	DATE 10-10-84	DATE 10-10-84	TITLE: KAS30 MEMORY SYSTEM ARBITER
	DRN BARRY MASKAS	DATE 10-10-84	DATE 10-10-84	STATE FLOW DIAGRAM
	DRN BARRY MASKAS	DATE 10-10-84	DATE 10-10-84	SIZE/CODE NUMBER
				01 CS1 M7606 -2 -02



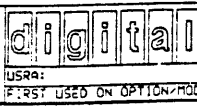
EQUATIONS

- EQ10 = -uvyc \* -uvycd1 \* -uvycd0
- EQ11 = -uvyc \* -uvycd2 \* -uvycd1 \* uvycd0
- EQ12 = -uvyc \* uvycd2 \* uvycd1 \* -uvycd2
- EQ13 = -uvyc \* uvycd2 \* -uvycd1 \* uvycd2
- EQ14 = -uvyc \* -uvycd2 \* uvycd1 \* -uvycd0
- EQ15 = -uvyc \* uvycd2 \* uvycd1 \* uvycd2
- EQ16 = -uvyc \* -uvycd2 \* uvycd1 \* uvycd0
- EQ17 = DRQ + TS1 \* -TS0 \* RR

DRAWING  
 NAME=MEM  
 ABBREV=MEM  
 LAST MODIFIED=Sun Dec 9 16:40:59 1984

3.2

REV	DESCRIPTION	DATE	BY
1	INITIAL DESIGN	12/09/84	MEM
2	REVISION		



DATE	ENG	DATE	ENG
12/09/84	BARRY MASKAS	12/09/84	BARRY MASKAS

KAS92 MEMORY SYSTEM ARBITER  
 STA FLOA D. 03R4  
 TOP DOCUMENT NUMBER: 1  
 SIZE CODE: 1  
 NUMBER: 7606-0-002W



```

NAME 23_014L3_00 ;KA630 LOCAL I/O CONTROL MACHINE revision 2
OPTION PRESET
INPUT NC1, -UVDALMA, -RDYERR, CSTOY, -CSPROM, -CSMAP, CSMAPMEAR,
INPUT -UVCYCD0, -UVCYCD1, NC0, UVWR, -DONE, -UVERR, TS0, TS1, BUVAS
OUTPUT NC3, MAPDISABLE, EPDS, -EPAS, NC2, -HIROMDLATCH, -EPADENB, -EPREADY

MACHINE 23_014L3_00

STATE POWERUP
GOTO ST1 [ -MAPDISABLE, -EPDS, -EPREADY, -EPAS, -HIROMDLATCH ]

STATE ST1, NUMBER LLHLL
IF [ TS1 * -TS0 * BUVAS * -UVERR ] THEN ST2
IF [ TS1 * -TS0 * UVERR ] THEN EXTEND

STATE ST2, NUMBER LLLHLL ;WHAT SHOULD RUN? IF Q22 BUS PUT ADDRESS ON EPR.
IF [ -UVERR * RDYERR * -UVCYCD1 * -UVCYCD0 ] THEN LOCALCYC [ EPREADY ]
IF [ -UVERR * -UVCYCD1 * -UVCYCD0 * CSTOY ] THEN TOYCYC [ EPADENB ]
IF [ -UVERR * -UVCYCD1 * UVCYCD0 * CSPROM ] THEN PROMCYC
IF [ -UVERR * UVCYCD1 * -UVCYCD0 * CSMAP * CSMAPMEAR ] THEN MAPCYC [ EPADENB ]
IF [ -UVERR * UVCYCD1 * -UVCYCD0 * -CSMAP * -CSMAPMEAR ] THEN MSERWCYC
IF [ -UVERR * -UVCYCD1 * -UVCYCD0 * -CSMAP * CSMAPMEAR ] THEN EMEARCYC
IF [ -UVERR * -UVCYCD1 * -UVCYCD0 * -CSTOY * -CSMAPMEAR * -RDYERR * -TS1 * &
-TS0 ] THEN AUTOCYC
IF [ -UVERR * (-UVCYCD1 * UVCYCD0) + (-UVCYCD1 * UVCYCD0 * -CSPROM) ] THEN Q22CYC [ EPADENB ]
IF [ UVERR ] THEN EXTEND

STATE EXTEND, NUMBER LLHLL
IF [ TS1 * -TS0 ] THEN MS1

STATE LOCALCYC ;FAST READY FLEW BY BUT EPREADY ASSERTS TO STROBE ERRORS.
IF [ -RDYERR * -UVDALMA ] THEN ST1 [ -EPREADY, -HIROMDLATCH, -EPAS ]

STATE TOYCYC, NUMBER HLLHH ;TOY CLOCK CYCLE
GOTO TOYT0

STATE TOYT0, NUMBER HLLHL ;ADDRESS SETUP TIME
GOTO TOYT1 [ EPAS ] ;CHIP SELECT AND ADDRESS ARE STABLE SO GO TO IT.

STATE TOYT1, NUMBER HLLHL
GOTO TOYT2 ;ADDRESS HOLD TIME.

STATE TOYT2, NUMBER HLLHL
GOTO TOYT3 [ -EPADENB ]

STATE TOYT3, NUMBER HLLHL
GOTO TOYT4 ;PREVENT TRISTATE OVERLAP.

STATE TOYT4, NUMBER HLLHL
GOTO TOYT5 [ EPDS ] ;GET OR PUT THE DATA.

STATE TOYT5, NUMBER LLHLLH ;DELAY FOR DATA ACCESS TIME.
IF [ -TS1 * TS0 ] THEN TOYT6

STATE TOYT6, NUMBER LLLLL ;TELL UVAX THAT CYCLE CAN FINISH.
GOTO MS1 [ EPREADY ]

STATE PROMCYC ;PROM CYCLE
IF [ UVDALMA * CSPROM * RDYERR ] THEN PROMT1 [ EPAS ] ;ADDRESS OK?

STATE PROMT1 ;DELAY FOR ACCESS TIME.
IF [ -TS1 * TS0 ] THEN PROMT2

STATE PROMT2 ;DELAY FOR ACCESS TIME, STROBE HI 16 BITS INTO LATCH.
GOTO PROMT3 [ HIROMDLATCH ] ;CHANGE ADDRESS TO LO 16 BITS.
    
```

```

STATE PROMT3 ;DELAY FOR ACCESS TIME.
IF [ -TS1 * TS0 ] THEN PROMT4

STATE PROMT4, NUMBER HLLLLL ;TELL MEMORY MACHINE AND UVAX TO FINISH.
GOTO MS1 [ EPREADY ]

STATE MAPCYC ;MAP CYCLE
IF [ RDYERR * DONE * TS1 * TS0 ] THEN MAPT1 [ -EPADENB ] ;HAVE THE Q22 BUS?

STATE MAPT1, NUMBER LLLHH
GOTO MAPT2 ;PREVENT TRISTATE OVERLAP.

STATE MAPT2, NUMBER LLLHL ;READ OR WRITE CYCLE?
IF [ UVWR ] THEN MAPT5 [ MAPDISABLE ] ;IF WRITE THEN 2 THE MAP OUTPUTS.
IF [ -UVWR ] THEN MAPT3 [ EPAS ] ;IF READ THEN GET DATA ON EPR BUS.

STATE MAPT3, NUMBER HLLHL
GOTO MAPT4 ;DELAY ONE TICK TO SYNC UP.

STATE MAPT4, NUMBER HLLLLL ;TELL UVAX AND MEMORY MACHINE TO FINISH.
GOTO MS1 [ EPREADY ]

STATE MAPT5
GOTO MAPT6 ;PREVENT TRISTATE OVERLAP.

STATE MAPT6 ;ENABLE THE WRITE DATA.
GOTO MAPT7 [ EPAS ]

STATE MAPT7 ;ASSERT THE WRITE STROBE.
GOTO MAPT8 [ EPDS ]

STATE MAPT8 ;SYNC UP WITH UVAX AND MEMORY MACHINE.
GOTO MSERWCYC [ -EPADENB ]

STATE MSERWCYC ;MSER WRITE CYCLE, GET THE Q22 BUS, STROBE THE DATA.
IF [ RDYERR * DONE * TS1 * TS0 ] THEN MS1 [ EPREADY ]

STATE MS1, NUMBER LLLLLL ;STROBE THE MSER DATA WITH EPREADY.
IF [ TS1 * TS0 ] THEN MS2 [ -EPREADY ]

STATE MS2
GOTO POWERUP [ -EPDS ]

STATE EMEARCYC, NUMBER HLLHL ;EXTERNAL MEAR CYCLE.
GOTO EM1

STATE EM1, NUMBER HLLHL ;ENABLE THE EPR DATA AND TELL UVAX TO FINISH.
GOTO EM2 [ EPAS, EPREADY ]

STATE EM2, NUMBER HLLHL
GOTO MS1 [ EPREADY ]

STATE AUTOCYC ;NOTHING TO DO SO BACK FOR ANOTHER LOOK.
GOTO ST1 [ -EPREADY, -HIROMDLATCH, -EPAS, -EPADENB ]

STATE Q22CYC ;Q22 BUS IAK OR Q22 BUS READ OR WRITE.
IF [ RDYERR ] THEN Q22T1 [ -EPADENB ]

STATE Q22T1
IF [ RDYERR * DONE * TS1 * TS0 ] THEN Q22T2 [ EPREADY ]

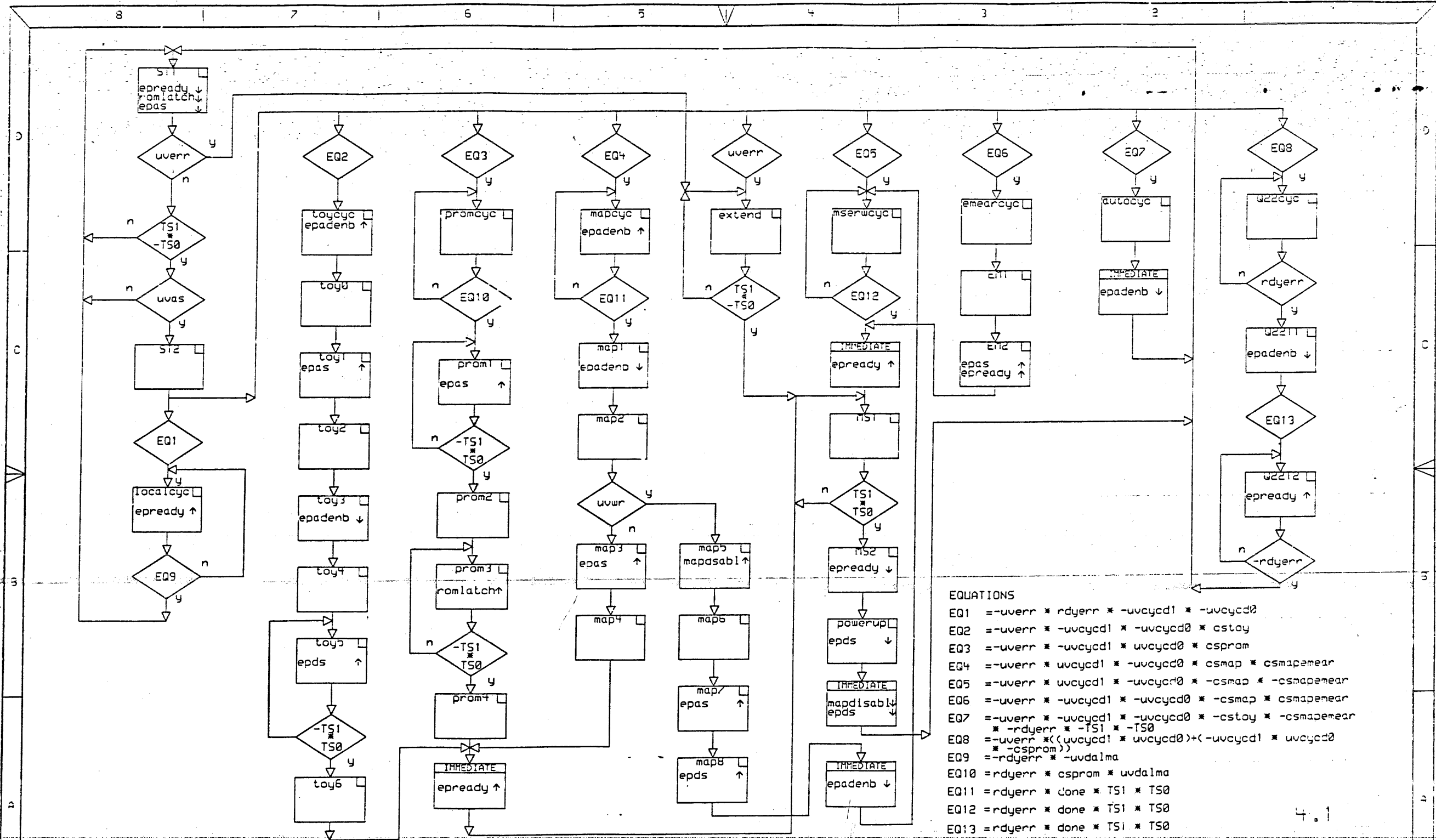
STATE Q22T2 ;WAIT UNTIL MEMORY MACHINE IS DONE.
IF [ -RDYERR ] THEN ST1 [ -EPREADY, -HIROMDLATCH, -EPAS ]

END
    
```

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1989. DIGITAL EQUIPMENT CORPORATION

REVISIONS	
CHK	CHANGE NO. REV

digit@	DRW. <i>R. McNamara</i>	DATE 09-AUG-85	ENG. R. MCNAMARA	DATE 09-AUG-85	TITLE: LOCAL I/O CONTROL MACHINE LISTING
	CHK'D. R. MCNAMARA	DATE 09-AUG-85	BOARD LOCATION: SHEET 1 OF 1	SIZE CODE D CS	NUMBER M7606-0-54
DSK:8.12P(4,550) 09-AUG-85 07:40 NEXT HIGHER ASSEMBLY:					REV. A
FIRST USED ON OPTION/MODEL:					



EQUATIONS

EQ1 = -uvern \* rdyerr \* -uvcycd1 \* -uvcycd0

EQ2 = -uvern \* -uvcycd1 \* -uvcycd0 \* cstoy

EQ3 = -uvern \* -uvcycd1 \* uvcycd0 \* csrom

EQ4 = -uvern \* uvcycd1 \* -uvcycd0 \* csmap \* csmapemear

EQ5 = -uvern \* uvcycd1 \* -uvcycd0 \* -csmap \* -csmapemear

EQ6 = -uvern \* -uvcycd1 \* -uvcycd0 \* -csmap \* csmapemear

EQ7 = -uvern \* -uvcycd1 \* -uvcycd0 \* -cstoy \* -csmapemear \* -rdyerr \* -TS1 \* -TS0

EQ8 = -uvern \* ((uvcycd1 \* uvcycd0) + (-uvcycd1 \* uvcycd0) \* -csrom)

EQ9 = -rdyerr \* -uvalma

EQ10 = rdyerr \* csrom \* uvalma

EQ11 = rdyerr \* done \* TS1 \* TS0

EQ12 = rdyerr \* done \* TS1 \* TS0

EQ13 = rdyerr \* done \* TS1 \* TS0

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	ECO NUMBER	DATE
1		

DRAWING

TITLE=EPR  
ABBREV=EPR

LAST MODIFIED=Mon Oct 22 15:14:12 1984

DEFINE

X+FIRST=0  
X+STEP=SIZE

digital

DRN: BARRY MASKAS  
CHK'D: BARRY MASKAS

DATE 28-AUG-1984

DATE 28-AUG-1984

SHEET 1 OF 1

NEXT HIGHER ASSEMBLY:

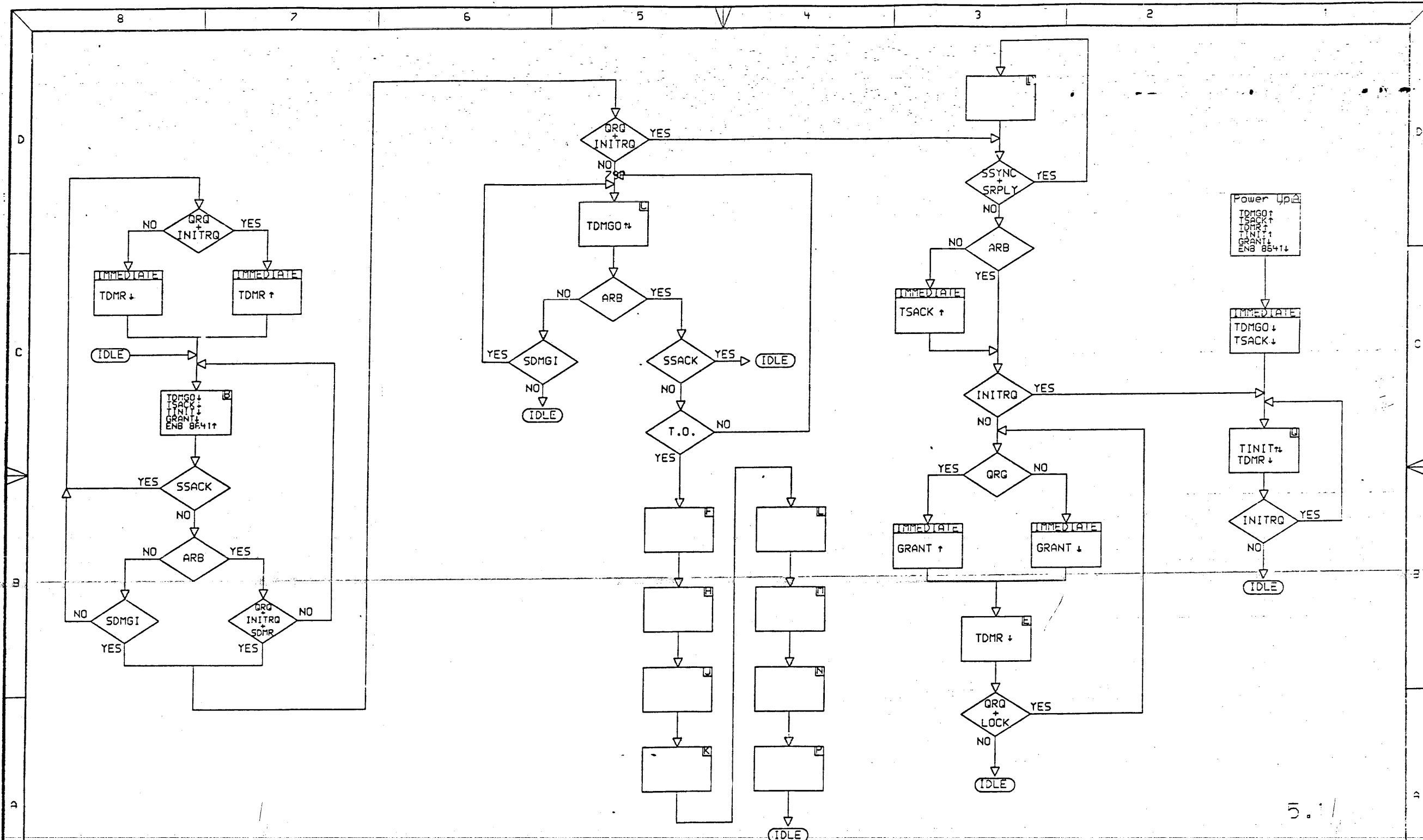
ENG: BARRY MASKAS

DATE 28-AUG-1984

TITLE: KA630 LOCAL I/O BUS CONTROL STATE MACHINE

SIZE CODE NUMBER REV  
1 CS: 17505 -0 -55





THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REV	TECD	NUMBER	DATE
1	1	1	6-22-84

DRAWING TITLE=ARB  
 ABBREV=arb  
 LAST+MODIFIED=Mon Oct 22 15:04:38 1984

DEFINE  
 X+FIRST=0  
 X+STEP=SIZE



DRN: R. McNamara	DATE 6-Jul-84	ENG: R. McNamara	DATE 6-Jul-84
CHK'D: R. McNamara	DATE 6-Jul-84	SHEET 1	OF 1
NEXT HIGHER ASSEMBLY:		TITLE: OBUS ARBITRATION CONTROL	

SIZE	CODE	NUMBER	REV.
D	CS	M7525-01-57	001

5.1

```

name 23_009L3_00_E26 ;Q22 bus master cycle control machine

input nci15, -cd0, -cd1, -bm0, -bm1, -bm2, -bm3, uVWR
input valid, nci16, t_o, rref, srply, -grant, -qbiocyc, qale

output nco7, -EnbDal, -EnbData, -tdio, nco3, tiako, tsync, -done

local first

machine q_bus_master

state A, number -hhhhh
if [-grant] then B [first, -EnbDal, -EnbData, -done, -tdio, -tiako, -tsync]

state B, number -hhhl
if [grant * qale * (-cd1)] then P [EnbDal]
if [grant * qale * (-cd1 * -cd0)] then I
if [grant * qale * (-cd1 * cd0)] then C [tdio, -first]

state C, number -hlhl
goto D

state D, number -llhl
goto E

state E, number -hlhh
goto F

state F, number -llhh
goto H

state H, number -lhlh
goto J [tiako]

state J, number -lhhll
goto V

state K, number -lhlh
goto L

state L, number -hhlll
goto M

state M, number -lhlh
goto N [-EnbData, -tdio, -first]

state N, number -lhlh
if [-srply] then P [EnbDal, -tsync]

state P, number -hlhl
goto R

state R, number -llhl
goto S

state S, number -hlhh
goto T
    
```

```

state T, number -llhh
if [qale * (-cd0 + (valid * qbiocyc))] &
then AP [done]
if [qale * cd0 * (-valid + qbiocyc)] &
then U [tsync]
if [qale * cd0 * valid * -qbiocyc * -first] then [-tsync]
if [qale * cd0 * valid * -qbiocyc * first] then [tsync, -first]

state U, number -hlhl
goto V

state V, number -llhl
if [uVWR] then AB [EnbData]
if [-uVWR] then AJ [tdio, -EnbDal]

state AJ, number -hhllh
if [t_o + srply] then AK

state AK, number -hlhl
goto AL

state AL, number -llllh
goto AM
if [-t_o] then [EnbData]

state AM, number -lhlh
if [-t_o * -uVWR * (bm2*bm1) * first * -rref] then N &
[-EnbData, -tdio, -tiako, -first]
if [t_o + uVWR + -(bm2*bm1) + -first + rref] then AN &
[-EnbData, -tdio, -tiako]

state AN, number -llllh
if [-srply * -t_o * first * (bm2*bm1) * -uVWR] &
then V [-first]
if [-srply * -t_o * first * (bm2*bm1) * uVWR] &
then AB [-first, EnbData]
if [-srply * (t_o + -(bm2*bm1) + -first)] &
then AP [-tsync, done, -EnbDal]

state AP, number -hlhh
if [grant * -qbiocyc * -qale] then S
if [-grant + qbiocyc + qale] then A

state AB, number -hhll
goto AC

state AC, number -lhhll
goto AD

state AD, number -hhhl
goto AE [tdio]

state AE, number -hhhl
if [t_o + srply] then AF

state AF, number -hlhl
if &
[-t_o * first * (bm2*bm1) * -(uVWR + bm0 * bm3) * rref]] &
then K [-tdio]
if &
[t_o + -first + -(bm2*bm1) + rref * (-uVWR + bm0 * bm3)] &
then AH [-tdio]

state AH, number -llhl
goto AL

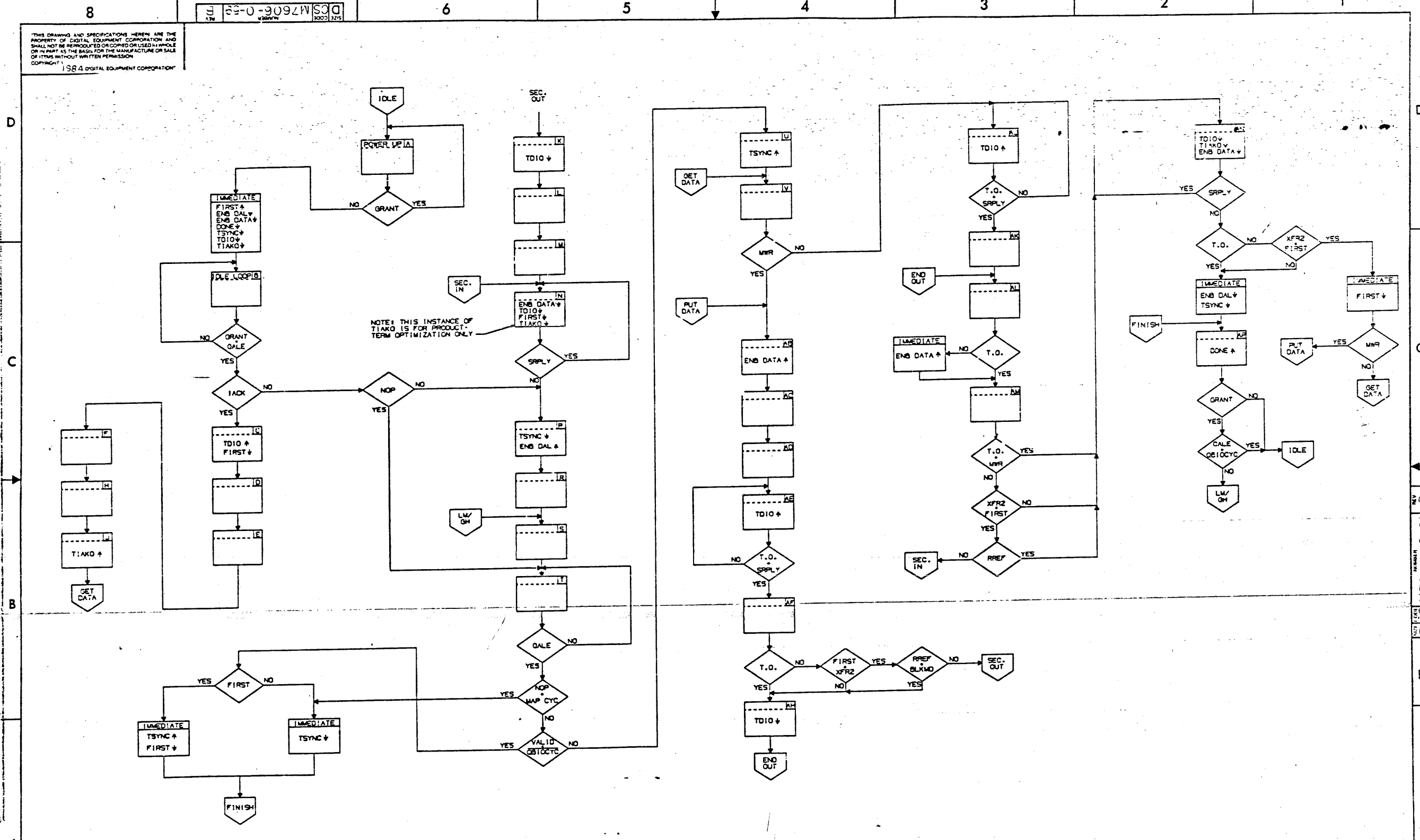
END
    
```

THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1989, DIGITAL EQUIPMENT CORPORATION

REVISIONS		
CHK	CHANGE NO.	REV

	DSK: 6.12P4.550 FIRST USED ON OPTION/MODEL:	DATE: 09-AUG-85 07:39 NEXT HIGHER ASSEMBLY:	ENG: R. MCNAMARA DATE: 09-AUG-85 BOARD LOCATION:	TITLE: Q22 BUS MASTER CTL MACHINE LISTING
	SIZE CODE: D CS NUMBER: M7606-0-58	REV: A	SHEET: 1 OF 1	DATE: 09-AUG-85

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF THIS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1984 DIGITAL EQUIPMENT CORPORATION.



REVISION HISTORY		
DATE	ECO NUMBER	REV

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DCS	M7606-0-59	3
SCALE	SHEET	OF

DCS M7606-0-59 B

```

name 21_010L3_00_E33 ;Q22 bus slave cycle control machine
input  -drq, -dmaMA, selcol, -bdy16, oddwd, -sel_db, qwr, -QMemEnb
input  valid, nci6, xwtbt, rbs7, sdout, sdin, ssync, -done

output nco7, DC021rcv, nco5, qale, nco3, incctr, -armreply, -drq

local flag

machine q_bus_slave

state AA, number -hhhh
goto A [DC021rcv, -drq, qale, -armreply, -flag]

state A, number -lllll
if [-dmaMA] then A2 [qale]

state A2, number -lhlll
goto B [-incctr]

state B1, number -lhhll
goto C [armreply]

state C, number -llhll
always [-armreply]
if [-ssync * flag] then K [drq]
if [-ssync * -flag] then A &
    [DC021rcv, -armreply, -flag, -drq]
if [ssync * sdout * -dmaMA * -xwtbt * -bdy16 * -oddwd] then D [incctr, flag]
if [ssync * sdout * -dmaMA * (xwtbt + bdy16)] then E [drq, flag, incctr]
if [ssync * sdout * -dmaMA * -xwtbt * -bdy16 * oddwd] then E &
    [drq, -flag, incctr]

state D
if [-sdout] then B1 [-incctr]

state E, number -llhh
always [-armreply]
if [dmaMA] then [-drq]
if [-sdout] then J
if [sdout * dmaMA * selcol] then F

state F
if [-sdout] then H [-incctr]

state H, number -lhhll
if [-ssync] then A [DC021rcv, -armreply, -flag, -drq]
if [ssync * -flag] then C [armreply]

state J, number -hllll
if [dmaMA] then [-drq]
if [-ssync] then K
if [ssync * dmaMA * selcol] then J1

state J1, number -hhllh
goto H [-incctr]

state K, number -lllll
if [dmaMA * -drq] then A [DC021rcv, -armreply, -flag, -drq]

state L1, number -lhhhh
goto M [armreply]

state M, number -llhhh
always [-armreply]
if [-sdin * -sdout] then N [DC021rcv]

state N, number -lllll
if [-ssync] then A [DC021rcv, -armreply, -flag, -drq]
if [ssync * sdin * -flag] then L1 [-DC021rcv, flag]
if [ssync * -(sdin * -flag) * sdout] then M [armreply, flag]

state P, number -hllll
if [dmaMA] then [-drq]
if [-ssync] then K
if [ssync * dmaMA * selcol] then R

state R, number -hhlll
goto R1 [-incctr]

state R1, number -hhllh
goto R2 [-DC021rcv]

state R2, number -lhhll
goto S [armreply]

state S, number -llhll
always [-armreply]
if [-ssync] then A [DC021rcv, -armreply, -flag, -drq]
if [ssync * sdin * bdy16] then U
if [ssync * sdin * -bdy16] then T [incctr]

state T
if [-sdin * -rbs7] then V &
    [-incctr, DC021rcv, qale]
if [-sdin * rbs7 * oddwd] then S &
    [-incctr, armreply]
if [-sdin * rbs7 * -oddwd] then P &
    [-incctr, DC021rcv, drq]

state U
if [-sdin] then V [DC021rcv, qale]

state V, number -hllhl
if [-ssync] then A [DC021rcv, -armreply, -flag, -drq]
if [ssync * sdout] then V1 [-qale]

state V1, number -lhhll
goto E [armreply, flag, drq]

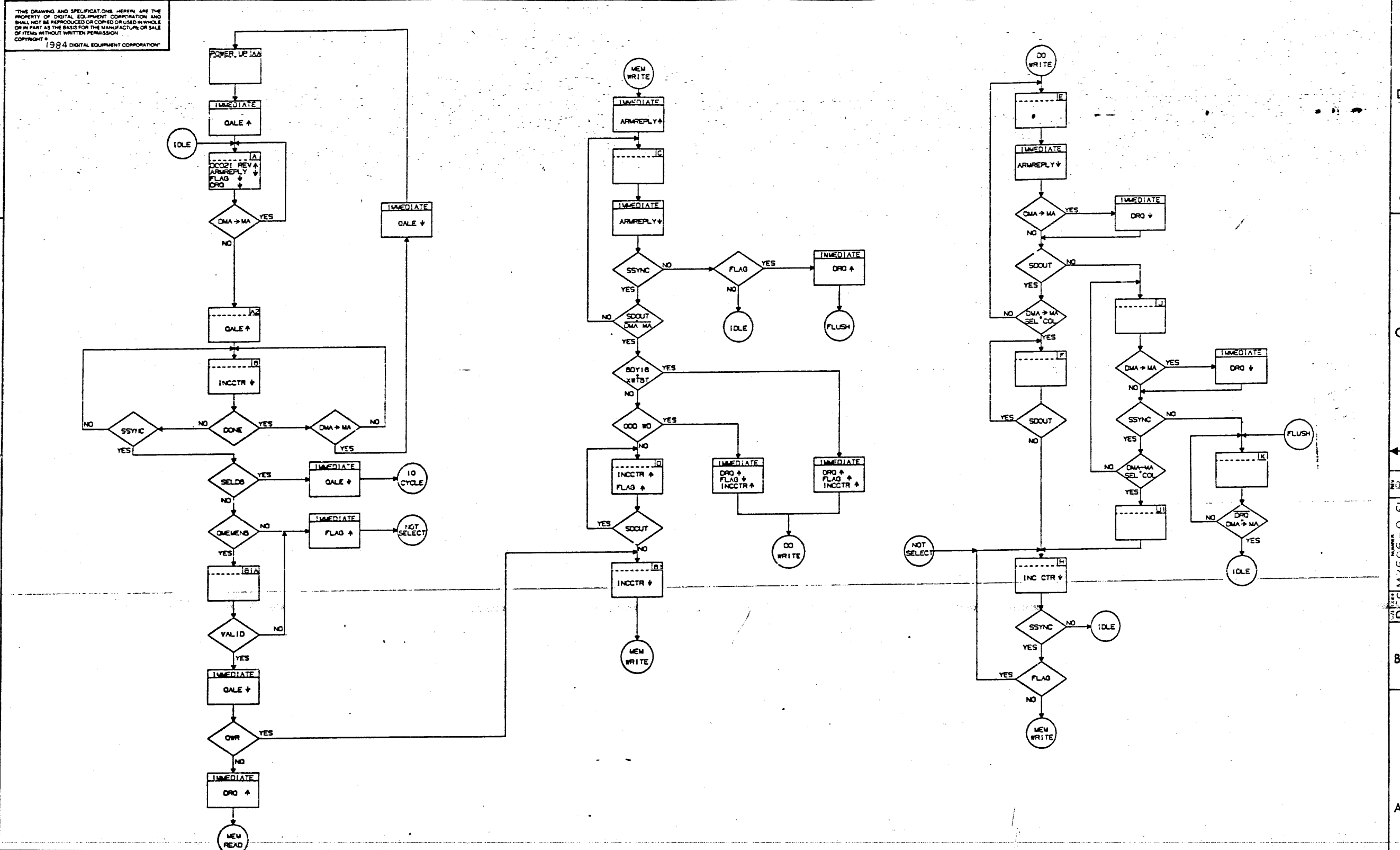
state B, number -lhlhl
if [-done * ssync * -sel_db * QMemEnb] then B1A
if [-done * ssync * -sel_db * -QMemEnb] then H [flag, -incctr]
if [-done * ssync * sel_db] then N [-qale, DC021rcv]
if [done * dmaMA] then AA [-qale]

state B1A
if [-valid] then H [flag, -incctr]
if [valid * -qwr] then P [-qale, drq]
if [valid * qwr] then B1 [-qale, -incctr]

END
    
```

<small>THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1989, DIGITAL EQUIPMENT CORPORATION.</small>		REVISIONS CHK CHANGE NO. REV		DATE ENG. 09-AUG-85 R. MCNAMARA 09-AUG-85 DATE BOARD LOCATION: 09-AUG-85 SHEET 1 OF 1 DSK: 7.1204.550 09-AUG-85 07:39 NEXT HIGHER ASSEMBLY:		TITLE: Q22 BUS SLAVE CTL MACHINE LISTING	
8	7	6	5	4	3	2	1

REV. A  
 NUMBER 17606-0-60  
 SIZE CODE CS  
 DSK: 7.1204.550  
 FIRST USED ON OPTION MODEL:



REVISION HISTORY		
DATE	ECO NUMBER	REV
		1
		2

TITLE  
Q22 BUS SLAVE CONTROL  
MACHINE FLOW DIAGRAM

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	CS	M7606-0-21
SCALE		SHEET OF /







T: PAL16L8A  
 P: 23-169J5-00 E40  
 N: BARRY MASKAS  
 D: 25 OCT 1984  
 S: /RPOK /BTRYOK CSMAPEMEAR /EPAS EPDS UVWR /DONE GALE /GRANT  
 GND SRPLY /CLRPSH /ENBLS646 /WRMAP /ENBBDAL RDIN DC021RCV /TDIO  
 /RCVBDALH VCC  
 B: IF [VCC] CLRPSH = RPOK + BTRYOK  
 IF [VCC] ENBLS646 = CSMAPEMEAR \* EPAS  
 IF [VCC] WRMAP = CSMAPEMEAR \* UVWR \* EPDS  
 IF [VCC] ENBBDAL = /GRANT \* /RDIN \* /DONE +  
 GRANT \* /DONE \* GALE + /DC021RCV \* /GRANT \* /DONE  
 IF [VCC] RCVBDALH = /TDIO \* /DC021RCV + /TDIO \* GRANT +  
 /SRPLY \* /DC021RCV + /SRPLY \* GRANT + UVWR \* /DC021RCV +  
 UVWR \* GRANT  
 E: KA630-A, -B, -C, -D (M7605) MISC. CONTROL STROBES

T: PAL16L8A  
 P: 23-170J5-00 E78  
 N: BARRY MASKAS  
 D: 25 OCT 1984  
 S: /PE3 /PE2 /PE1 /PE0 /MSER0 /MEMWR /BYTACT3 /BYTACT2 /BYTACT1  
 GND /BYTACT0 /HI16PER /LO16PER /PERR /SELCOL /ENBCAS0H /ENBCAS1H  
 /ENBCAS2H /ENBCAS3H VCC  
 B: IF [VCC] HI16PER = MSER0 \* PE2 \* BYTACT2 + MSER0 \* PE3 \* BYTACT3  
 IF [VCC] LO16PER = MSER0 \* PE0 \* BYTACT0 + MSER0 \* PE1 \* BYTACT1  
 IF [VCC] PERR = MSER0 \* /MEMWR \* PE0 \* BYTACT0 + MSER0 \* /MEMWR \*  
 PE1 \* BYTACT1 + MSER0 \* /MEMWR \* PE2 \* BYTACT2 + MSER0 \* /MEMWR \*  
 PE3 \* BYTACT3  
 IF [VCC] ENBCAS0H = /SELCOL + /BYTACT0  
 IF [VCC] ENBCAS1H = /SELCOL + /BYTACT1  
 IF [VCC] ENBCAS2H = /SELCOL + /BYTACT2  
 IF [VCC] ENBCAS3H = /SELCOL + /BYTACT3  
 E: KA630-A, -B, -C, -D (M7605) MEMORY SYSTEM CAS CONTROL STROBES AND  
 PARITY ERROR DETECTION STROBES

T: PAL16L8A  
 P: 23-171J5-00 E86  
 N: BARRY MASKAS  
 D: 25 OCT 1984  
 S: /UVCYCCD2 /DMAMA /DONE /MSER1 /UVCYC /MEMWR DECODE /DATABUFENB  
 MEMCD0 GND MEMCD1 /MSWT0H /MSWT1H SELCOL /BUFENB /BUFEN0 /BUFENB1  
 /BDIRT /STARTCYC VCC  
 B: IF [VCC] MSWT0H = /MEMCD1 + MEMCD0 + /MEMWR + /UVCYC  
 IF [VCC] MSWT1H = MEMCD1 + /MEMWR + /UVCYC  
 IF [VCC] BUFENB = MEMCD1 \* /MEMCD0 \* /MEMWR \* SELCOL \* /DMAMA +  
 MEMCD1 \* /MEMCD0 \* /MEMWR \* DATABUFENB + MEMCD1 \* /MEMCD0 \* MEMWR \*  
 UVCYC \* MSER1  
 IF [VCC] BUFEN0 = /MEMCD1 \* MEMCD0 \* /MEMWR \* SELCOL \* /DMAMA +  
 /MEMCD1 \* MEMCD0 \* /MEMWR \* DATABUFENB + /MEMCD1 \*  
 MEMCD0 \* MEMWR \* UVCYC \* MSER1  
 IF [VCC] BUFENB1 = /MEMCD1 \* /MEMCD0 \* /MEMWR \* SELCOL \* /DMAMA +  
 /MEMCD1 \* /MEMCD0 \* /MEMWR \* DATABUFENB + /MEMCD1 \*  
 /MEMCD0 \* MEMWR \* UVCYC \* MSER1  
 IF [VCC] BDIRT = MEMWR \* DECODE + MEMWR \* SELCOL \* MSER1  
 IF [VCC] STARTCYC = /DMAMA \* UVCYCCD2 \* UVCYC \* /MEMWR +  
 /DMAMA \* DECODE \* /UVCYCCD2 \* UVCYC \* /MEMWR \* DONE + /DMAMA \* UVCYC \*  
 MEMWR \* DMAMA \* DECODE \* DMAMA \* SELCOL  
 E: KA630-A, -B, -C, -D (M7605) MEMORY SUBSYSTEM BUFFER CONTROL STROBES  
 AND MEMORY CYCLE ENABLE STROBE

D  
 C  
 B  
 A  
 REV. A  
 NUMBER M7605-0-64  
 SIZE CODE D CS  
 D

REVISIONS	
CHK	CHANGE NO. REV.

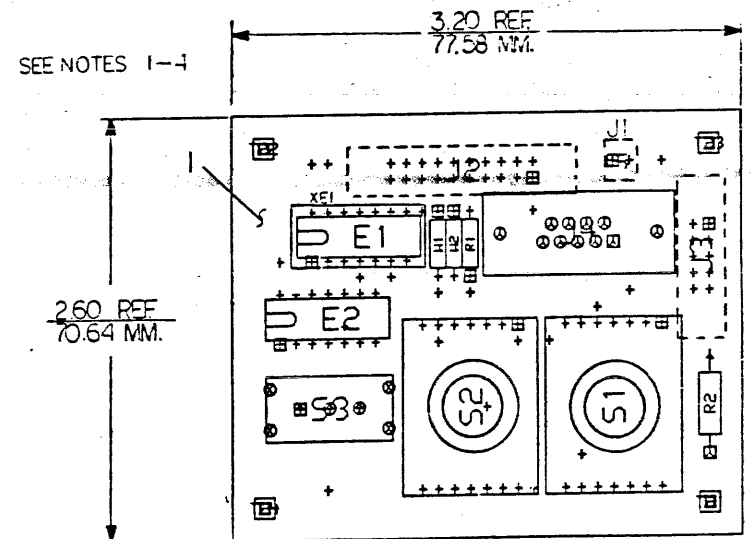
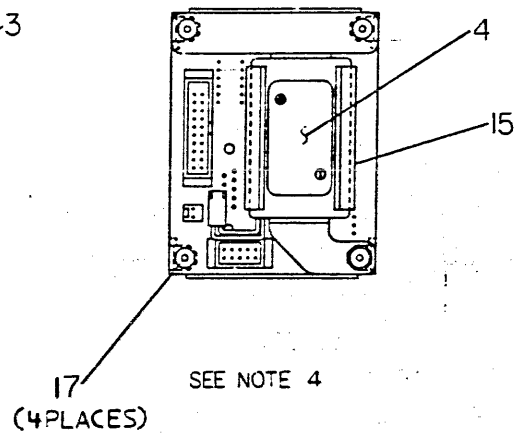
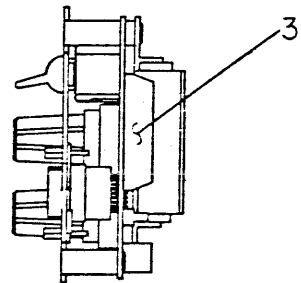
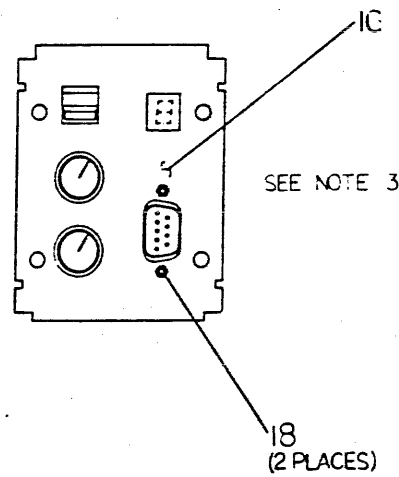
digital	DATE 09-AUG-89	ENG. R. MCNAMARA	DATE 09-AUG-89	TITLE: PALASM LISTINGS FOR PAL16L8A DEVICES
	CHK'D R. MCNAMARA	DATE 09-AUG-89	BOARD LOCATION: SHEET 1 OF 1	SIZE CODE D CS
FIRST USED ON OPTION/MODEL: DSK: 3.12PC(4,550)		NEXT HIGHER ASSEMBLY: 09-AUG-89 07:39		NUMBER M7605-0-64
				REV. A







THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT © 1985 DIGITAL EQUIPMENT CORPORATION



NOTES:

1. W1, W2 ARE NOT INSTALLED.
2. J1, J2 AND J3 ARE MOUNTED ON SIZE 2.
3. MOUNT J4 TO ITEM 16 WITH ITEM 13 BEFORE SOLDERING INTO ITEM 1.
4. TEST PANEL IN TESTER AFTER COMPLETING NOTE 3 AND BEFORE ASSEMBLY OF ITEMS 1, 15, 16 WITH ITEM 17.

STEP	E	+	Y	AXIS	STEP	TIMES
REPEAT						

CHG	NO	REV
SAIG	44	1
DEKERRY	24	04-85
M	DE	MARE

ETCH REV.	A1
-----------	----

SIGNATURES	DATE	TITLE	FUNCTION
DRN. DAVID DROZD			
CHK'D.			
MECH. ENG.			
PROJ. ENG.			
PROD.			
SCALE 2/1		SIZE CODE	NUMBER
SHT. OF		D UA	5416244-0-0
NEXT HIGHER ASSY. B-DD-5416244-0-0			

digital  
 SEL / SLU  
 1 MS# 275-000

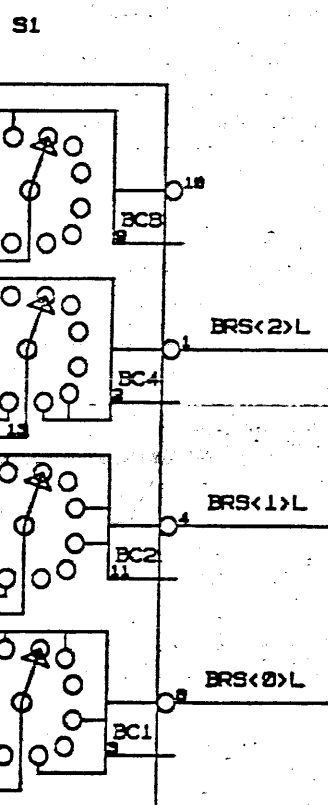
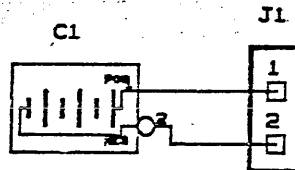
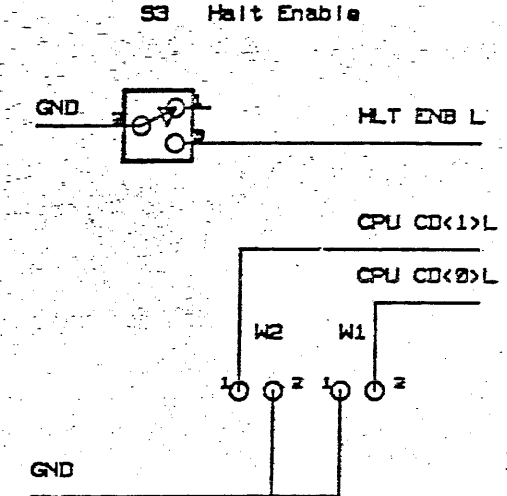
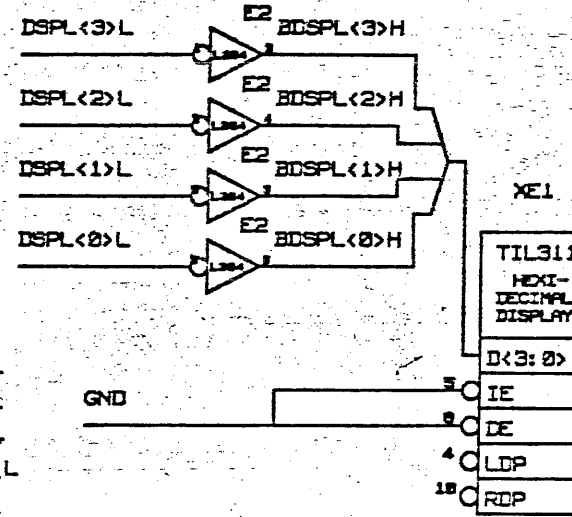
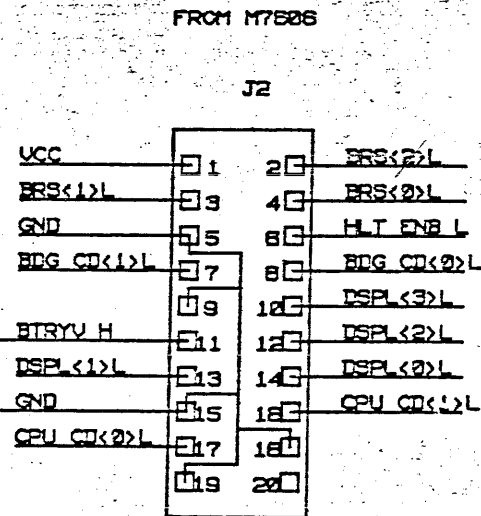
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY	PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5016743-0-0	5016743-01		CIRCUIT DRILL AND ETCH		1		
2	2		1216565-02		SKT,IC 14PIN DIP TIN ELEV		1		XE1
3	3		1217727-00		PCB,HEADER 20POS(1X20).100CC STR		1		J2
4	4		1219245-01		BATTERY,3CELL 3.75V .18MA NICAD		1		
5	5		1219251-00		PCB HEADER 02PIN(1X02).100CC STR		1		J1
6	6		1219573-05		CONN,D SUB 9PIN ASSY STR		1		J4
7	7		1219952-08		PCB HEADER 09PIN(2X05).100CC STR		1		J3
8	8		1223262-01		SW,ROT 1P08POS		1		S1
9	9		1223263-02		SW,ROT 2P03POS		1		S2
10	10		1223646-01		SW,RKR SPDT ON-OFF-ON		1		S3
11	11		1300229-00		100.0 .25 W 5.0 % CF		1		R1
12	12		1300354-00		750.0 .50 W 5.0 % CF		1		R2
13	13		1912803-00		LS04 INVERTER GATE,HEX		1		E2
14	14		1916921-00		HEXADECIMAL DISPLAY W/DECODER		1		E1
15	15		7430801-01		HOLDER,BATTERY		1		
16	16		7431737-01		PLATE,CONNECTOR		1		
17	17		9008181-01		SCREW,TAP PAN PHIL 6-		4		
18	18		9008451-01		SCREW LOCK,STANDOFF ONLY .060TH		2		

REVISION HISTORY			BASIC PART NO: 5416744				
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: E. LANDRY	DATE: 01-JUN-84	D I G I T A L	
---	INITIAL	A	SECTION VARIATION INDEX	CHK'D: D. DROZD	DATE: 01-JUN-84	TITLE PARTS LIST	
			[A] 01			FUNCTION SEL/SLU MODULE	
			[B]	DES.ENG: M. DEMARE	DATE: 12-OCT-84	DOCUMENT NUMBER	
			[C]			SIZE	CODE
			[D]	RESP.ENG.: M. DEMARE	DATE: 12-OCT-84	NUMBER	
			[E]			K	PL
			[F]	MFG.ENG.: S. WASH	DATE: 12 NOV 84	5416744-0-DBP	
			[G]			A	
			[H]			RELEASE DATE: 27-FEB-85	
			[I]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
			[J]	D-UA-5416744-0-0	D-UA-5416744-0-0P	ML769A.PLS	34
			[K]				
			[L]				
			[M]				
			[N]				

"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."



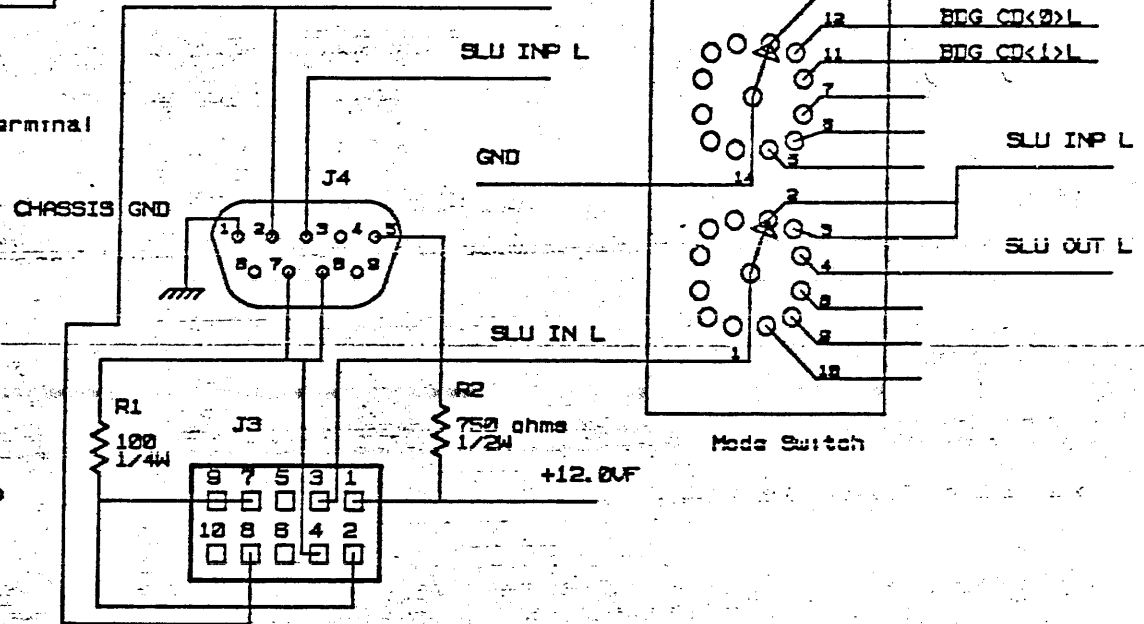
FROM M7808	TO FS&SLU	FROM M7808	TO FS&SLU
J2 PIN	J2 PIN	J2 PIN	J2 PIN
1	20 GND	11	18 DSPL<3>L
2	19 GND	12	9 GND
3	18 GND	13	8 EDG CD<0>L
4	17 CPU CD<0>L	14	7 EDG CD<1>L
5	16 CPU CD<1>L	15	6 HLT ENB L
6	15 GND	16	5 GND
7	14 DSPL<0>L	17	4 BRS<0>L
8	13 DSPL<1>L	18	3 BRS<1>L
9	12 DSPL<2>L	19	2 BRS<2>L
10	11 BTRYV H	20	1 +5.0V = VCC



BRS<2:0>L

0 HH	300 BAUD
1 HL	600
2 LH	1200
3 LL	2400
4 LHL	4800
5 LHL	9600
6 LLH	19200
7 LLL	38400

FROM M7808	TO FS&SLU
J3 PIN	J3 PIN
1	10 BURESET<L>
2	9 GND
3	8 SLU OUT L
4	7 GND
5	6 KEY
3	5 KEY
7	4 SLU IN H
8	3 SLU IN L
9	2 GND
10	1 +12.0V



CPU CD<1:0>L

W2	W1	FUNCTION
R	R	NORMAL
R	I	AUXILIARY 1
I	R	AUXILIARY 2
I	I	AUXILIARY 3

I=INSERTED  
R=REMOVED

EDG CD<1:0>L

0 HH	NORMAL
1 HL	LANGUAGE INQUIRY
2 LH	SLU LOOPBACK TEST

\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
COPYRIGHT 1984 DIGITAL EQUIPMENT CORPORATION

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRWING: TITLE=FUNCT SEL/SLU  
ABBREV=FS&SLU  
LAST\_MODIFIED=Thu Jan 31 17:20:33 1985

DEFINE: X\_FIRST=0  
X\_STEP=SIZE

CRN: Malcolm de Mars  
CHK'D: Dave Drozd

DATE: 20-SEP-84  
DATE: 20-SEP-84

ENG: Malcolm de Mars  
SHEET: 1 OF 1  
NEXT HIGHER ASSEMBLY: B-00-5416744-0-0  
TITLE: Function Selection & SLU Module (FS&SLU) for M7808(KA630)  
SIZE: K CS NUMBER: 5416744-0-1 REV: A







LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	
					01	02
1	A-PS-1700313-0-0	1700313-01	A	CABLE ASSY,06 COND,MOLD,SHLD	2	1
2	A-PS-4700042-0-0	4700042-01		SCREWDRIVER,FLAT BLADE 0.12 X 2.		1
3	A-PS-3622092-0-0	3622092-01	A	LABEL,LCP5 CONFIGURATION		1
4	A-PS-9907349-0-0	9907349-01	A	CARTON,DIECUT,C,200PSI,W/GRAPHIC		1
5	B-DD-M9047-0	M9047-00		QBUS GRANT CONTINUITY,1ST USED I		1
6	A-PS-1700301-0-0	1700301-00	A	CABLE ASSY,07 COND,MOLD,SHLD	2	1
7	A-PS-3624251-0-0	3624251-01	A	LABEL,FRONT CONTROL PANEL BA123		1

REVISION HISTORY			BASIC PART NO: 7022382			DRN: D. HEALY		DATE: 05-DEC-84		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: D. HEALY		DATE: 08-MAR-85		TITLE PARTS LIST BA123-A ACCESSORY KIT			
---	INITIAL	A	SECTION VARIATION INDEX			DES.ENG: J. KWONG		DATE: 08-MAR-85		DOCUMENT NUMBER			
			[A]01,02			RESP.ENG.: J. KWONG		DATE: 08-MAR-85		SIZE	CODE	NUMBER	REV
			[B]			MFG.ENG.: J. EDWARDS		DATE: 08-MAR-85		K	PL	7022382-0-DBP	A
			[C]			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[D]							ML755A.PLS		4	
			[E]							RELEASE DATE: 26-MAR-85			
			[F]										

"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

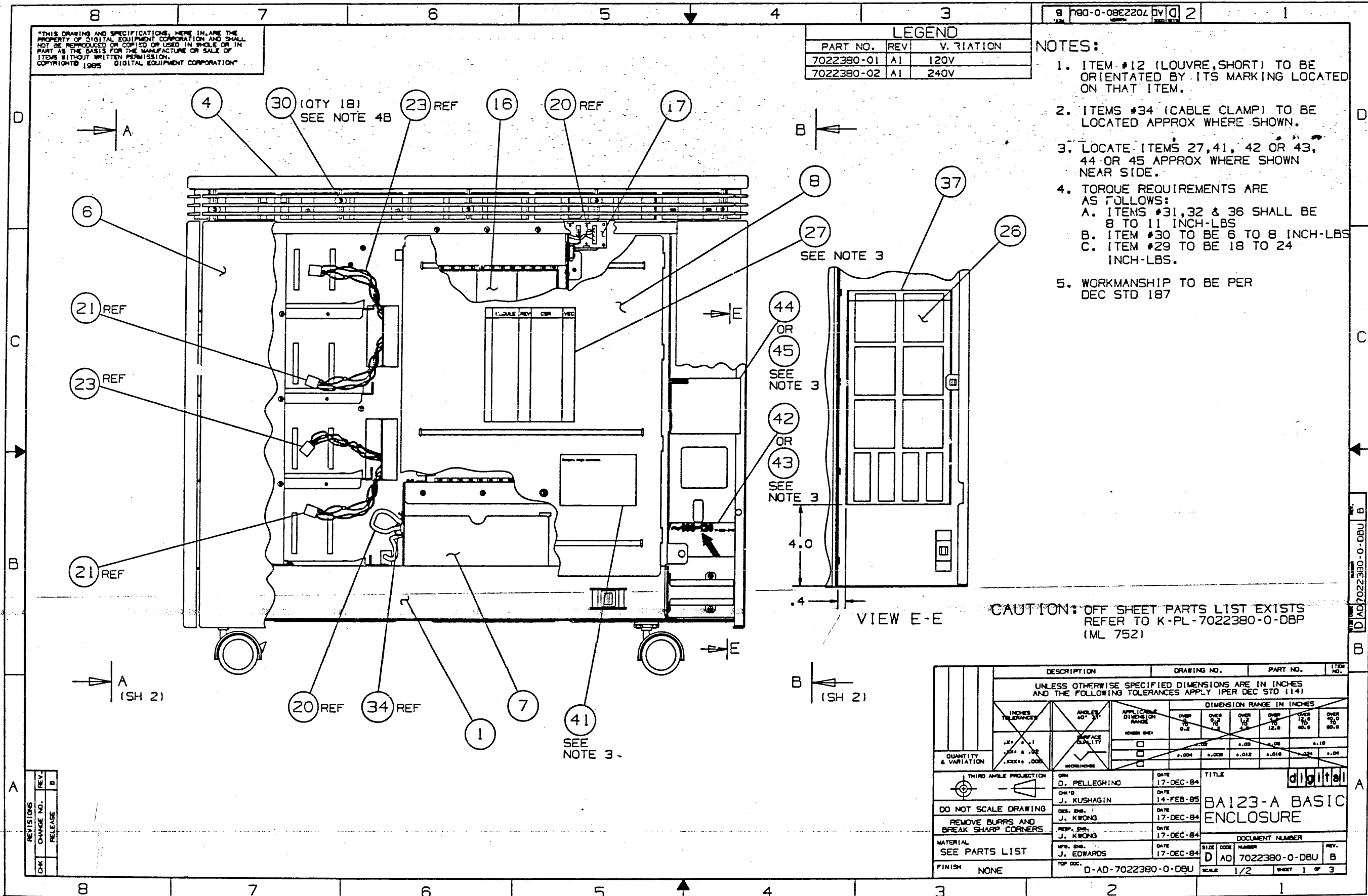


THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1985 DIGITAL EQUIPMENT CORPORATION

LEGEND		
PART NO.	REV	V. RIATION
7022380-01	A1	120V
7022380-02	A1	240V

NOTES:

- ITEM #12 (LOUVRE, SHORT) TO BE ORIENTATED BY ITS MARKING LOCATED ON THAT ITEM.
- ITEMS #34 (CABLE CLAMP) TO BE LOCATED APPROX WHERE SHOWN.
- LOCATE ITEMS 27, 41, 42 OR 43, 44 OR 45 APPROX WHERE SHOWN NEAR SIDE.
- TORQUE REQUIREMENTS ARE AS FOLLOWS:
  - ITEMS #31, 32 & 36 SHALL BE 8 TO 11 INCH-LBS
  - ITEM #30 TO BE 6 TO 8 INCH-LBS
  - ITEM #29 TO BE 18 TO 24 INCH-LBS.
- WORKMANSHIP TO BE PER DEC STD 187



CAUTION: OFF SHEET PARTS LIST EXISTS REFER TO K-PL-7022380-0-DBP (ML 752)

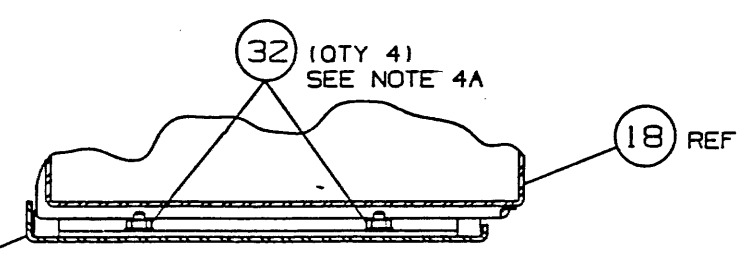
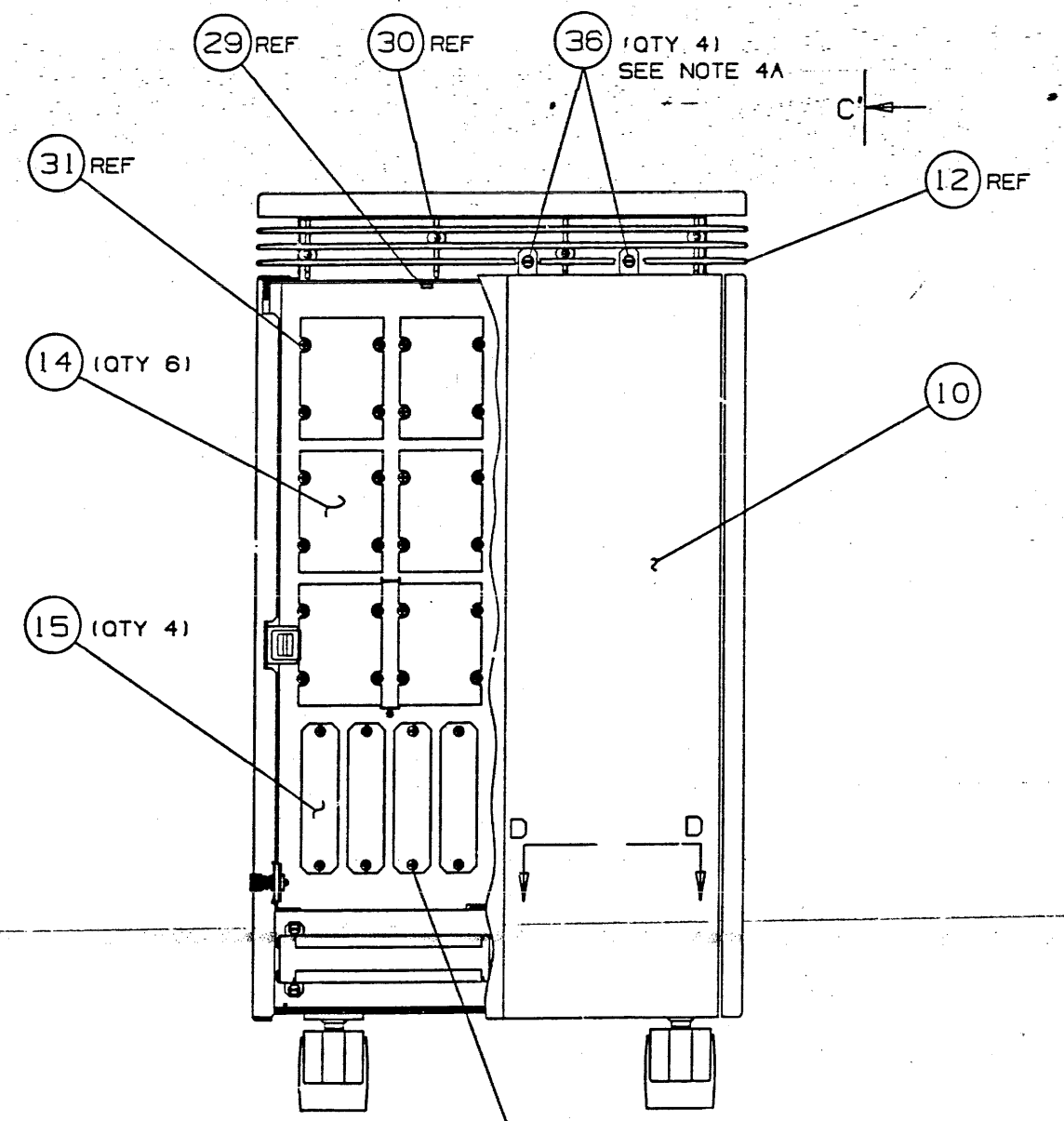
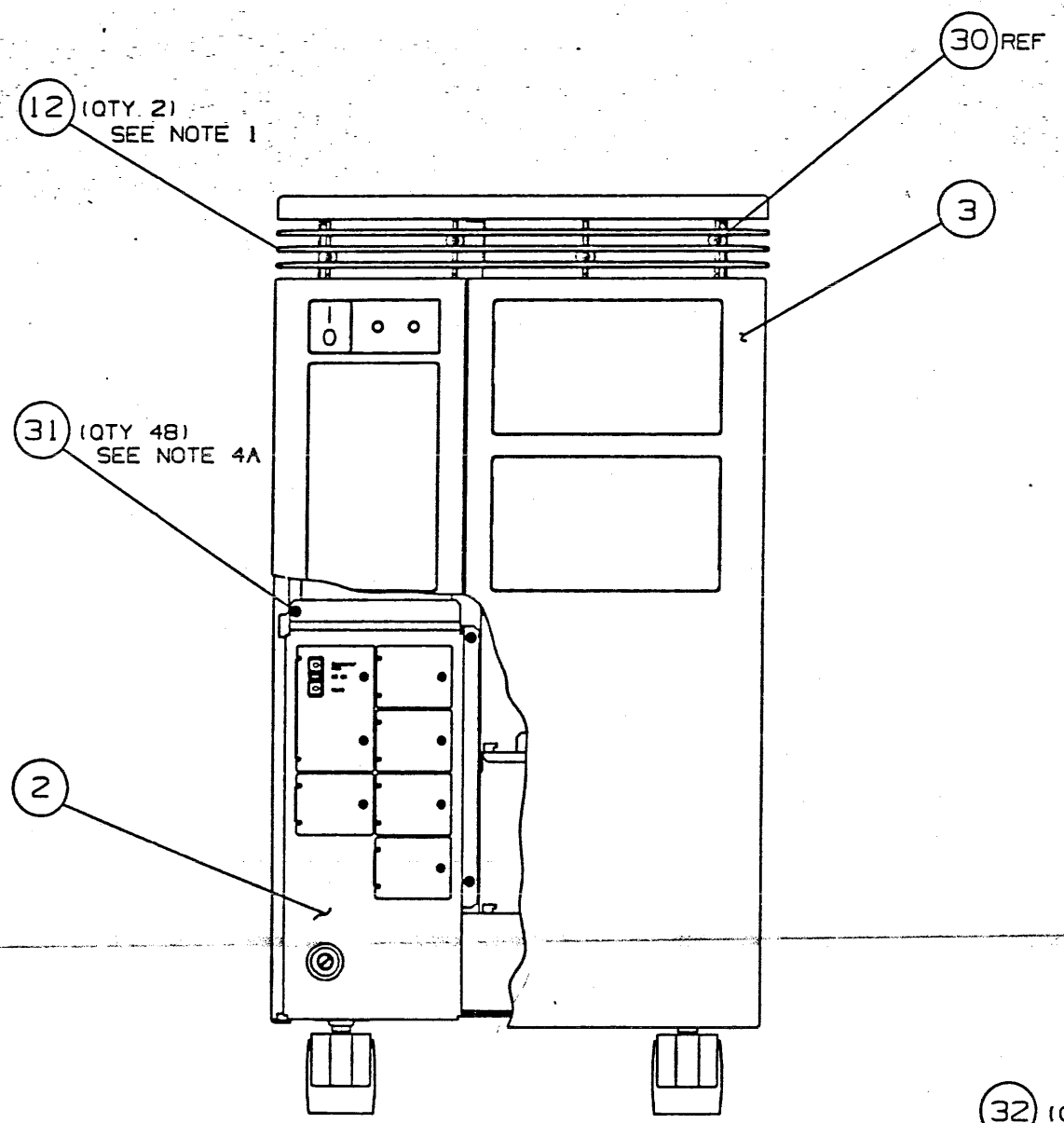
DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.																		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)																					
DIMENSION RANGE IN INCHES																					
<table border="1"> <tr> <th>INCHES TOLERANCE</th> <th>ANGLES</th> <th>APPLICABLE DIMENSION RANGE</th> <th>OVER 0 TO 1/2</th> <th>OVER 1/2 TO 1</th> <th>OVER 1 TO 2</th> <th>OVER 2 TO 4</th> <th>OVER 4 TO 8</th> <th>OVER 8 TO 16</th> </tr> <tr> <td>±.01</td> <td>±.01</td> <td>0.001 - 0.005</td> <td>±.001</td> <td>±.002</td> <td>±.003</td> <td>±.004</td> <td>±.005</td> <td>±.006</td> </tr> </table>				INCHES TOLERANCE	ANGLES	APPLICABLE DIMENSION RANGE	OVER 0 TO 1/2	OVER 1/2 TO 1	OVER 1 TO 2	OVER 2 TO 4	OVER 4 TO 8	OVER 8 TO 16	±.01	±.01	0.001 - 0.005	±.001	±.002	±.003	±.004	±.005	±.006
INCHES TOLERANCE	ANGLES	APPLICABLE DIMENSION RANGE	OVER 0 TO 1/2	OVER 1/2 TO 1	OVER 1 TO 2	OVER 2 TO 4	OVER 4 TO 8	OVER 8 TO 16													
±.01	±.01	0.001 - 0.005	±.001	±.002	±.003	±.004	±.005	±.006													
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DATE	TITLE																		
		D. PELLEGRINO 17-DEC-84	BA123-A BASIC ENCLOSURE																		
DO NOT SCALE DRAWING		J. KUSHAGIN 14-FEB-85																			
REMOVE BURRS AND BREAK SHARP CORNERS		J. KWONG 17-DEC-84																			
MATERIAL		J. KWONG 17-DEC-84																			
SEE PARTS LIST		J. EDWARDS 17-DEC-84																			
FINISH	NONE	TOP DEC.	D-AD-7022380-0-DBU																		
		SCALE	1/2																		
		SHEET	1 OF 3																		

REV.	REV.	REV.
1	2	3

D AD 7022380-0-DBU B

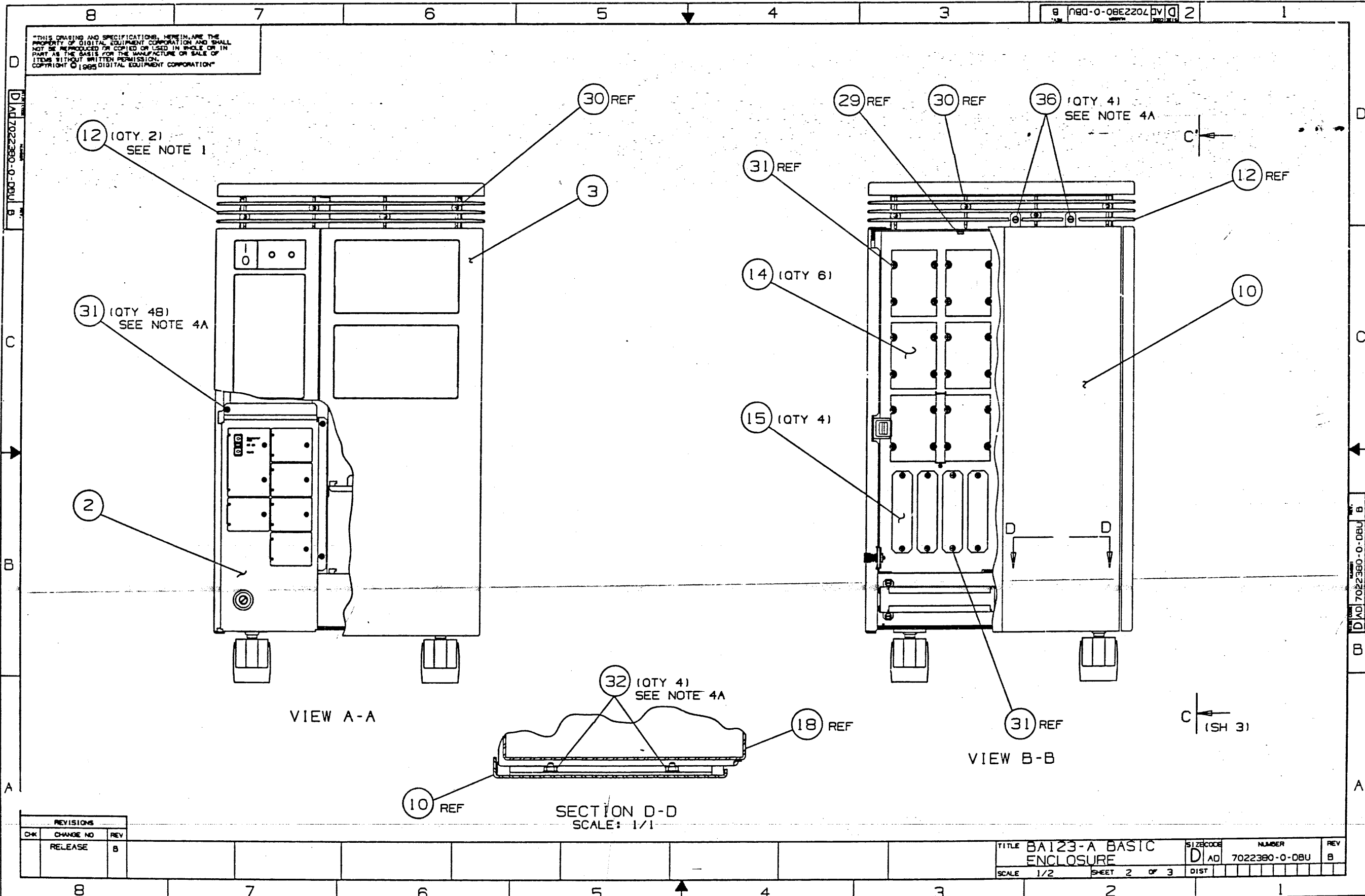
"THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1985 DIGITAL EQUIPMENT CORPORATION"

9 7022380-0-DBU B 2



REVISIONS		
CHK	CHANGE NO	REV
	RELEASE	B

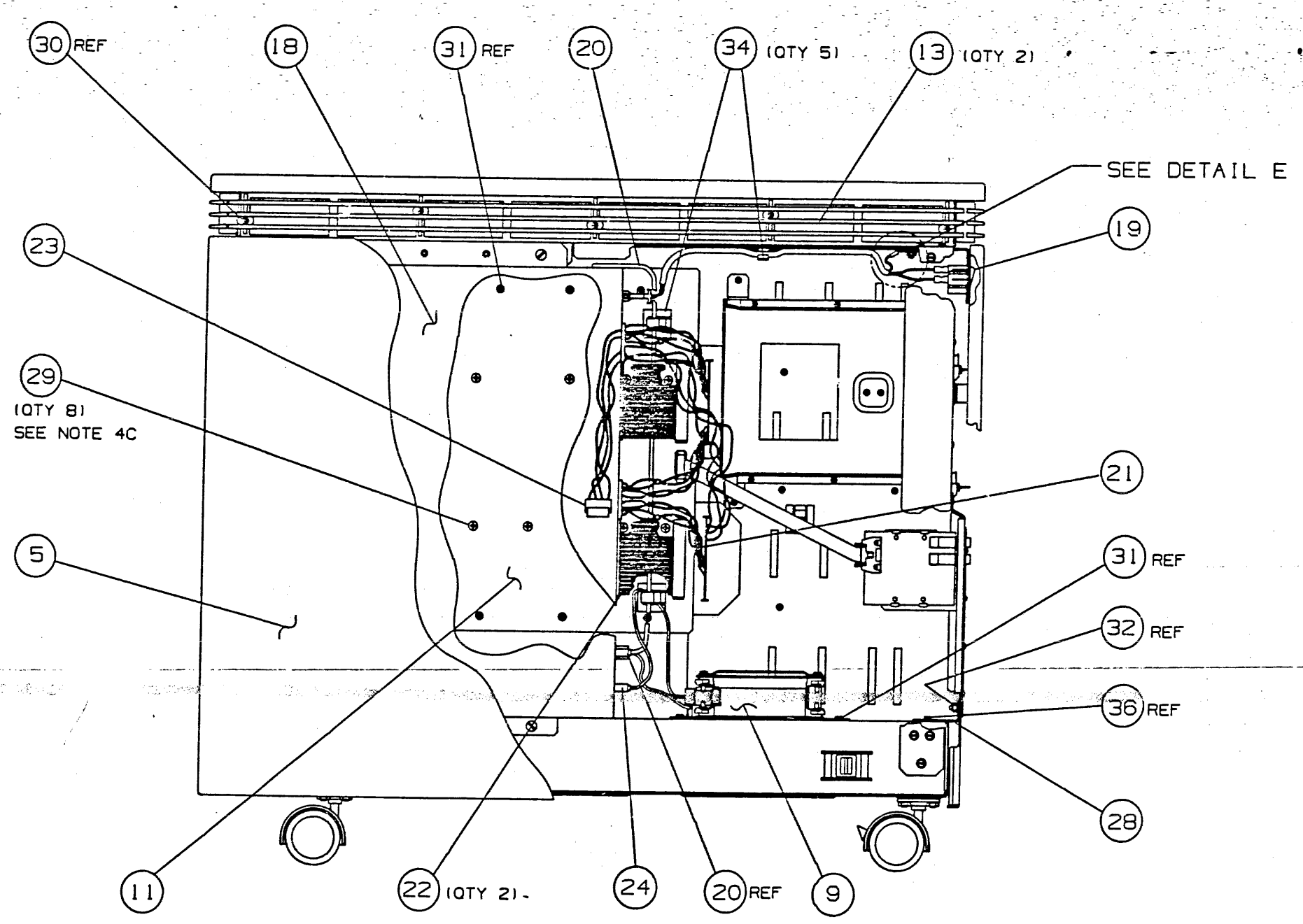
TITLE	BA123-A BASIC ENCLOSURE	SIZE CODE	D AD	NUMBER	7022380-0-DBU	REV	B
SCALE	1/2	SHEET	2 OF 3	DIST			





\*THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1965 DIGITAL EQUIPMENT CORPORATION\*

D AD 7022380-0-DBU 2



DETAIL E  
SCALE 1/1

VIEW C-C

REVISIONS		
CHK	CHANGE NO	REV
	RELEASE	B

TITLE	BA123-A BASIC ENCLOSURE	SIZE/CODE	D AD	NUMBER	7022380-0-DBU	REV	B
SCALE	1/2	SHEET	3	OF	3	DIST	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	
						01	02
1	1	D-AD-7021991-0-DBU	7021991-01		FRAME ASSEMBLY	1	1
2	2	C-AD-7021996-0-DBU	7021996-01		CONTROL PANEL ASSY.	1	1
3	3	D-AD-7021997-0-DBU	7021997-01		PANEL COVER FRONT DISK ASSY	1	1
4	4	D-AD-7021999-0-DBU	7021999-01		TOP COVER ASSY.	1	1
5	5	D-AD-7022000-0-DBU	7022000-01		SIDE PANEL ASSY L/H	1	1
6	6	D-AD-7022001-0-DBU	7022001-01		SIDE PANEL ASSY R/H	1	1
7	7	D-AD-7022003-0-DBU	7022003-01		FAN MOUNT CARD CAGE ASSY.	1	1
8	8	D-IA-7022006-0-DBU	7022006-01		COVER FRONT CARD CAGE ASSY.	1	1
9	9	D-AD-7022296-0-DBU	7022296-01		FAN MOUNT MASS STORAGE ASSY	1	1
10	10	D-AD-7022339-0-DBU	7022339-01		DOOR, REAR ASSY.	1	1
11	11	D-IA-7430692-0-DBU	7430692-01		COVER, REAR, CARD CAGE	1	1
12	12	D-MD-7430709-0-DBU	7430709-01		LOUVRE, SHORT	2	2
13	13	D-MD-7430710-0-DBU	7430710-01		LOUVRE, LONG	2	2
14	14	C-IA-7427574-0-0	7427574-01		PLATE, COVER	6	6
15	15	B-MD-7428683-0-DBU	7428683-01		PLATE, CONNECTOR BLANK	4	4
16	16	E-UA-5417507-0-DBU	5417507-01		QBUS BACKPLANE, 13 SLOTS, QUAD	1	1
17	17	D-UA-5416665-0-DBU	5416665-01		REMOTE SENSE OF TEMPERATURE FOR	1	1
18	18	D-PS-3023616-0-DBU	3023616-01		P.S. 460W 2DC REGULATOR BDS, FAN	1	1
19	19	A-PS-1700859-0-0	1700859-01		CABLE ASSY, AC, ON/OFF POWER	1	1
20	20	A-PS-1700863-0-0	1700863-01		CABLE ASSY, FAN	1	1
21	21	A-PS-1700870-0-0	1700870-01		CABLE ASSY, DC POWER DRIVE	1	1
22	22	A-PS-1700865-0-0	1700865-01		CABLE ASSY, 18COND	2	2
23	23	A-PS-1700911-0-0	1700911-01		CABLE ASSY, 9POS POWER DRIVE	1	1
24	24	A-PS-1700864-0-0	1700864-01		CABLE ASSY, FAN	1	1
25	25	A-PA-3700821-0-0	3700821-01		PKG COMPUTER, BA123 CUSTOMER	1	1
26	26	A-PS-3624253-0-0	3624253-01		LABEL, I/O, BULKHEAD	1	1
27	27	A-PS-3624254-0-0	3624254-01		LABEL, MU BUSINESS COMPUTER	1	1
28	28	C-MD-7431225-0-DBU	7431225-01		BRACKET, CONTROL PANEL	1	1
29	29		9010174-01		SCREW, SEMS PAN PHIL	8	8
30	30		9000055-01		SCREW, THD RL, PAN POZI F/METL	4	18

REVISION HISTORY		BASIC PART NO: 7022380	
ENG	ECO NUMBER	REV	SECTION A OF A
	INITIAL	B	SECTION VARIATION INDEX (A)01,02
			(B)
			(C)
			(D)
			(E)
			(F)
DRN: S. STEFANICK		DATE: 18-DEC-84	
CHK'D: J. KUSHAGIN		DATE: 13-FEB-85	
DES. ENG: J. KWONG		DATE: 18-DEC-84	
RESP. ENG.: J. KWONG		DATE: 18-DEC-84	
MFG. ENG.: J. EDWARDS		DATE: 18-DEC-84	
ASSEMBLY NUMBER: B-DD-7022380-0-DBU		TOP DOCUMENT NUMBER: B-DD-7022380-0-DBU	
TITLE BA123-A BASIC ENCLOSURE		DOCUMENT NUMBER K PL 7022380-0-DBP	
RELEASE DATE: 06-MAR-85		FILE NAME: ML752B.PLS	
		EDIT #: 23	

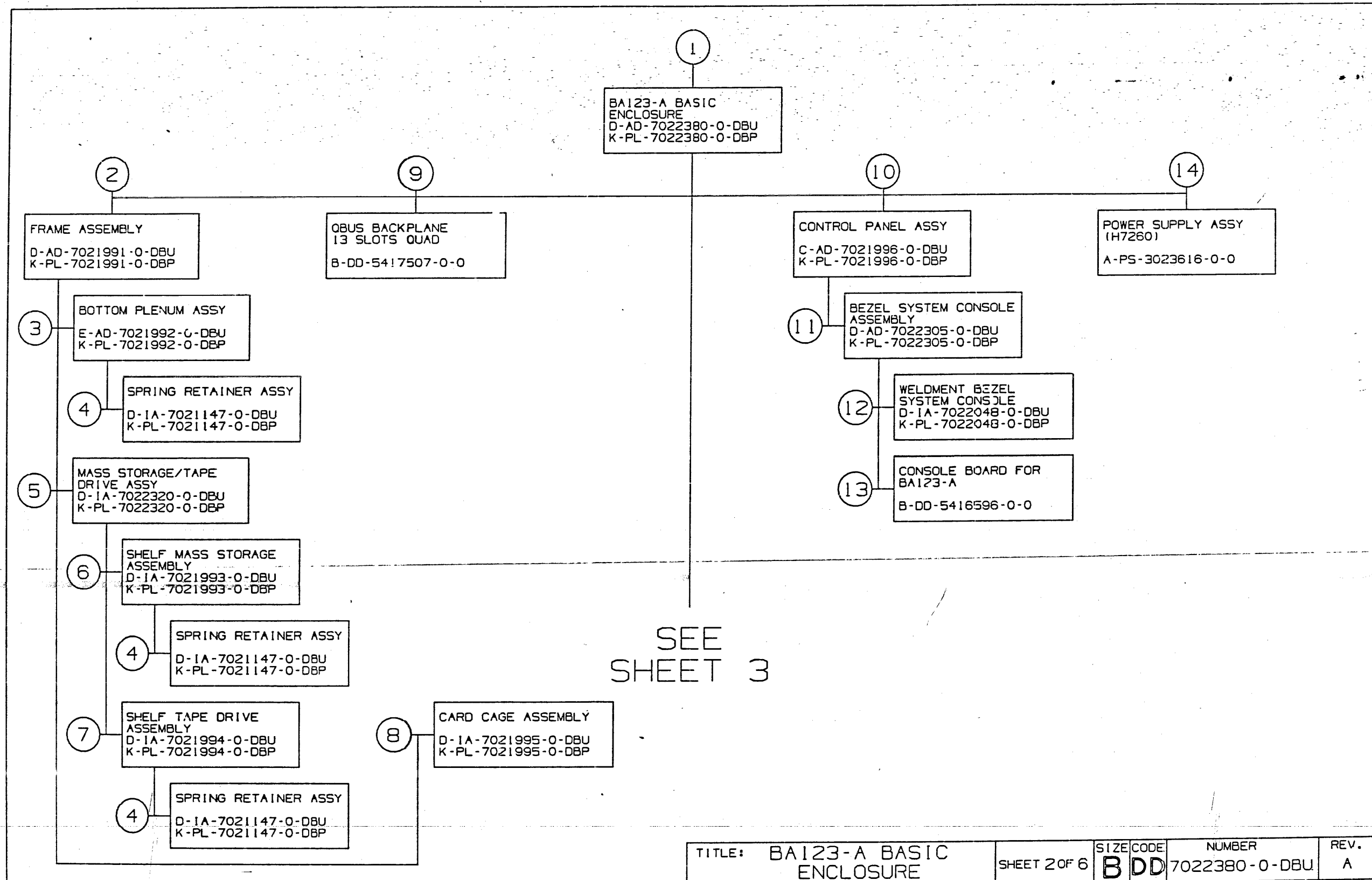
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV DESCRIPTION	QTY PER VARIATION	
				01	02
			VARIATION REVISION LEVEL:	A1	A1
31	31	9009701-00	SCREW,SEMS PAN PHIL-- 6-	48	48
32	32	9006560-00	NUT,HEX EXT TOOTH LCKWSHR 6-32	4	4
33	33	9007651-00	WASHER,LOCK EXTERNAL STEEL	1	1
34	34	9010016-00	CLAMP, CABLE, ADH BACK	5	5
35	35	9006565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32	1	1
36	36	9010075-03	SCREW,TAP HEXWW THD RL 6-	4	4
37	37	9907588-01	ENVELOPE,CLEAR ADH BACK	1	1
38	38	D-AR-7022380-0-DBU	BA123-A SYSTEM ARRANGEMENT	REF	REF
39	39	K-SP-BA123-A-DBF	ENG. SPEC BA123-A	REF	REF
40	40	1700083-00	PWR CORD,TERM 3-14 SJT 125	1	-
41	41	3615087-04	LABEL,"DANGER-HIGH CURRENT"	1	1
42	42	3617905-16	LABEL,WARNING EQUIP. RATING,100-	1	-
43	43	3617905-17	LABEL,WARNING EQUIP. RATING,220-	-	1
44	44	A-PS-3624471-0-0	LABEL,BUSINESS COMP BA123-A2	1	-
45	45	A-PS-3624471-0-0	LABEL,BUSINESS COMP BA123-A3	-	1

46 NOTE: ITEMS #25 AND #40 NOT SHOWN ON FIELD OF DWG.

D I G I T A L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	BA123-A BASIC ENCLOSURE		K	PL	7022380-0-DBP	B



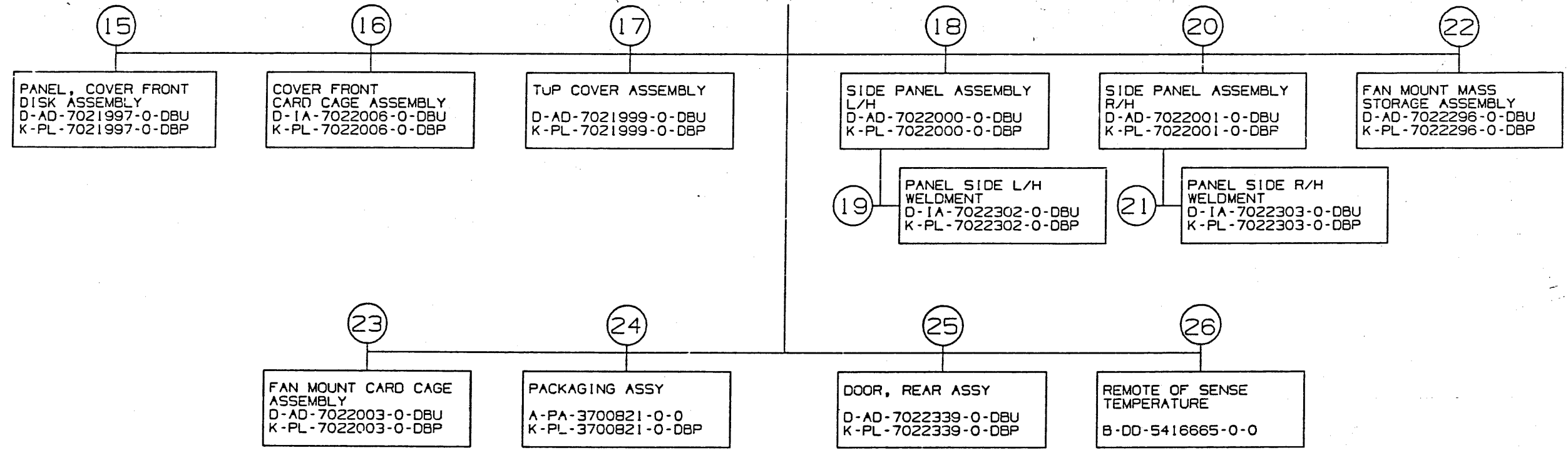


SEE SHEET 3

TITLE: BAI23-A BASIC ENCLOSURE	SHEET 2 OF 6	SIZE CODE <b>B DD</b>	NUMBER 7022380-0-DBU	REV. A
--------------------------------	--------------	--------------------------	-------------------------	-----------

MLO1

CONT FROM SHEET 2



TITLE: BA123-A BASIC ENCLOSURE	SHEET 3 OF 6	SIZE CODE <b>B DD</b>	NUMBER 7022380-0-DBU	REV. A
--------------------------------	--------------	--------------------------	-------------------------	-----------

MLO1



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE				
					A-SS-7022048-0-1	SILK SCREEN	M				
7	D-1A-7021994-0-DBU	SHELF TAPE DRIVE ASSEMBLY	M	13	B-DD-5416596-0-0	CONSOLE BOARD FOR BA123-A	E/M				
	K-PL-7021994-0-DBP	SHELF TAPE DRIVE ASSEMBLY (PL)	M								
	D-MD-7430746-0-DBU	SHELF TAPE DRIVE	M								
	D-MD-7427554-0-DBU	HALF SLIDE	M								
				14	A-PS-3023616-0-0	POWER SUPPLY ASSEMBLY (H7260)	E/M				
8	D-1A-7021995-0-DBU	CARD CAGE ASSEMBLY	M								
	K-PL-7021995-0-DBP	CARD CAGE ASSEMBLY (PL)	M								
	E-1A-7430690-0-DBU	FRAME CARD CAGE	M	15	D-AD-7021997-0-DBU	PANEL COVER FRONT DISK ASSY	M				
	K-PL-7430690-0-DBP	FRAME CARD CAGE (PL)	M		K-PL-7021997-0-DBP	PANEL COVER FRONT DISK ASSY (PL)	M				
	D-MD-7429632-0-DBU	CARD GUIDE 12 SLOT	M		E-MD-7430704-0-DBU	PANEL, FRONT	M				
	D-1A-7430693-0-DBU	BAFFLE, FCC	M		C-MD-7431191-0-DBU	BRACKET, STUD	M				
	K-PL-7430693-0-DBP	BAFFLE, FCC (PL)	M		E-MD-7430708-0-DBU	DOOR, FRONT	M				
					C-MD-7431178-0-DBU	BRACKET, DOOR HINGE	M				
					D-MD-7431477-0-DBU	PANEL, FILLER	M				
9	B-DD-5417507-0-0	OBUS BACKPLANE 13 SLOTS QUAD	E/M								
10	C-AD-7021996-0-DBU	CONTROL PANEL ASSEMBLY	M	16	D-1A-7022006-0-DBU	CARD CAGE FRONT COVER ASSY	M				
	K-PL-7021996-0-DBP	CONTROL PANEL ASSEMBLY (PL)	M		K-PL-7022006-0-DBP	CARD CAGE FRONT COVER ASSY (PL)	M				
	E-1A-7430705-0-DBU	PANEL CONTROL	M		E-1A-7430691-0-DBU	COVER FRONT CARD CAGE	M				
	K-PL-7420705-0-DBP	PANEL CONTROL (PL)	M		K-PL-7430691-0-DBP	COVER FRONT CARD CAGE (PL)	M				
	C-MD-7431171-0-DBU	BEZEL, BLANK	M		D-MD-7430828-0-DBU	SUPPORT MODULES	M				
					D-MD-7431479-0-DBU	SUPPORT, MODULE REMOVEABLE	M				
11	D-AD-7022305-0-DBU	BEZEL, SYSTEM CONSOLE ASSY	E/M	17	D-AD-7021999-0-DBU	TOP COVER ASSEMBLY	M				
	K-PL-7022305-0-DBP	BEZEL, SYSTEM CONSOLE ASSY (PL)	E/M		K-PL-7021999-0-DBP	TOP COVER ASSEMBLY (PL)	M				
	A-PS-1700860-0-0	CABLE ASSY, CONSOLE BACKPLANE	E/M		D-1A-7430707-0-DBU	COVER, TOP	M				
					K-PL-7420707-0-DBP	COVER, TOP (PL)	M				
					C-MD-7423357-0-DBU	KEY BUTTON	M				
					D-1A-7431045-0-DBU	BRACKET, COVER	M				
					K-PL-7431045-0-DBP	BRACKET, COVER (PL)	M				
12	D-1A-7022048-0-DBU	WELDMENT, BEZEL SYS CONSOLE	M								
	K-PL-7022048-0-DBP	WELDMENT, BEZEL SYS CONSOLE (PL)	M								
	D-MD-7431169-0-DBU	BRACKET, SUPPORT SYSTEM CONSOLE	M	18	D-AD-7022000-0-DBU	SIDE PANEL ASSEMBLY L/H	M				
	D-MD-7431173-0-DBU	BEZEL, SYSTEM CONSOLE	M		K-PL-7022000-0-DBP	SIDE PANEL ASSEMBLY L/H (PL)	M				
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL				TITLE: BA123-A BASIC ENCLOSURE				SHEET 5 OF 6	SIZE CODE <b>BDD</b>	NUMBER 7022380-0-DBU	REV. A

digital



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
19	D-1A-7022302-0-DBU	PANEL, SIDE L/H WELDMENT	M	25	D-AD-7022339-0-DBU	DOOR, REAR ASSY	M
	K-PL-7022302-0-DBP	PANEL, SIDE L/H WELDMENT (PL)	M		K-PL-7022339-0-DBP	DOOR, REAR ASSY (PL)	M
	E-MD-7431042-0-DBU	PANEL, LEFT	M		E-1A-7431043-0-DBU	DOOR, REAR	M
	B-MD-7431190-0-DBU	BRACKET STUD SIDE PANEL	M		K-PL-7431043-0-DBP	DOOR, REAR (PL)	M
					E-1A-7430703-0-DBU	PANEL, REAR	M
					K-PL-7430703-0-DBP	PANEL, REAR (PL)	M
					D-MD-7431188-0-DBU	HINGE, REAR DOOR LINING	M
20	D-AD-7022001-0-DBU	SIDE PANEL ASSEMBLY R/H	M	26	B-DD-5416665-0-0	REMOTE OF SENSE TEMPERATURE	E/M
	K-PL-7022001-0-DBP	SIDE PANEL ASSEMBLY R/H (PL)	M				
21	D-1A-7022303-0-DBU	PANEL, SIDE R/H WELDMENT	M				
	K-PL-7022303-0-DBP	PANEL, SIDE R/H WELDMENT (PL)	M				
	D-MD-7430702-0-DBU	PANEL SIDE	M				
	B-MD-7431190-0-0	BRACKET, STUD SIDE PANEL	M				
22	D-AD-7022296-0-DBU	FAN MOUNT MASS STORAGE ASSY	M				
	K-PL-7022296-0-DBP	FAN MOUNT MASS STORAGE ASSY (PL)	M				
	D-MD-7430711-0-DBU	BRACKET, FAN MOUNT MASS STORAGE	M				
23	D-AD-7022003-0-DBU	FAN MOUNT CARD CAGE ASSY	M				
	K-PL-7022003-0-DBP	FAN MOUNT CARD CAGE ASSY (PL)	M				
	D-MD-7430694-0-DBU	BRACKET, FAN MOUNT CARD CAGE	M				
24	A-PA-3700821-0-0	PACKAGING ASSY	M				
	K-PL-3700821-0-DBP	PACKAGING ASSY (PL)	M				

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

digital

TITLE: BA123-A BASIC ENCLOSURE

SHEET 6 OF 6

SIZE CODE BDD

NUMBER 7022380-0-DBU

REV. A

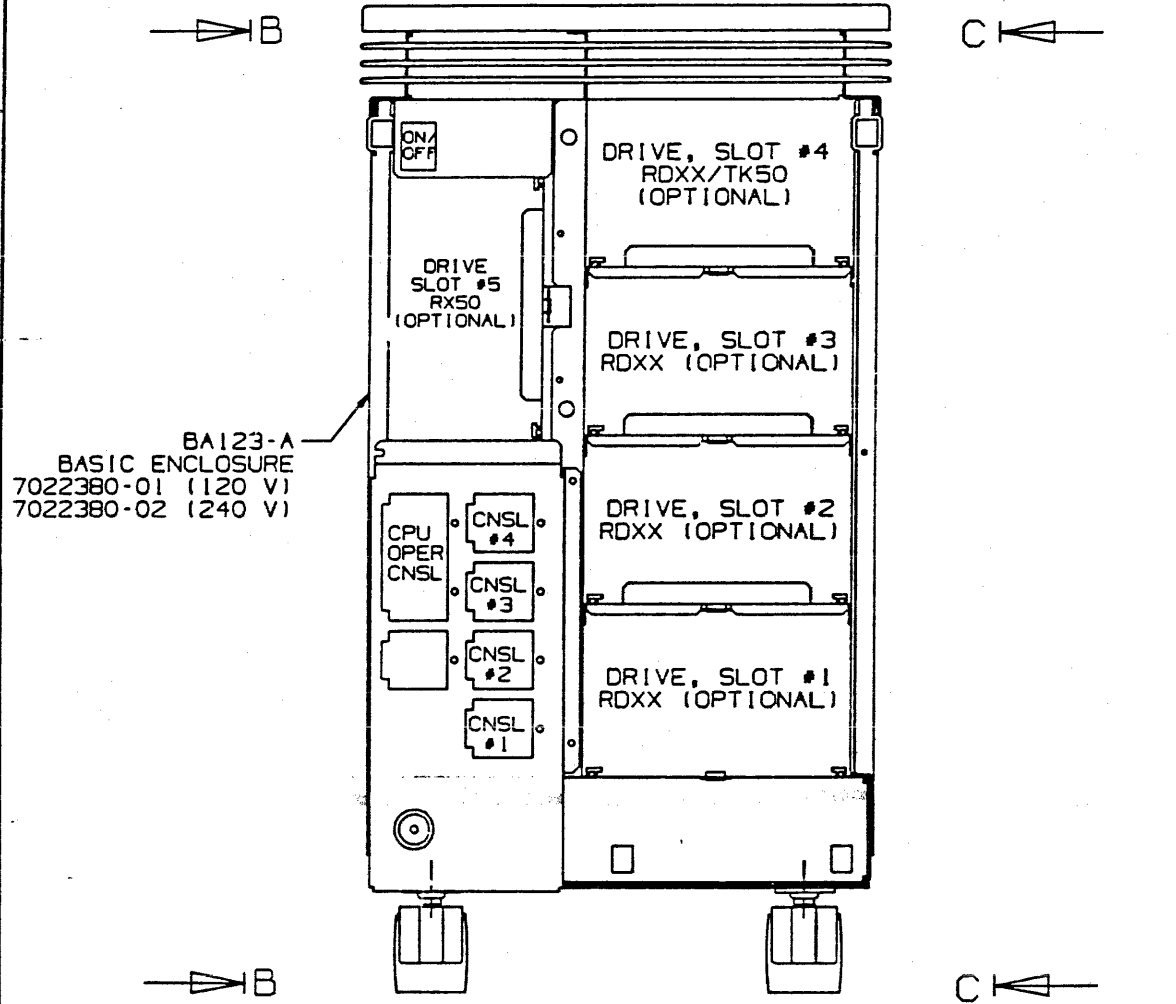
DRB 108A

MLO1

\*THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

NOTES:

1. RODX SIGNAL DISTRIBUTION (M9058) IS SHOWN FOR REF ONLY AND NOT PART OF BA123-A. (SEE SHEET 5)
2. FOR REAR PANEL RULES AND CONFIGURATION SEE SHEET 3.
3. FOR POWER HARNESS WIRING DIAGRAM SEE SHEET 6.
4. FOR MODULE RULES SEE SHEET 6.
5. MASS STORAGE CONFIGURATION RULES:  
THE POWER SUPPLY IN THE BA123-A ENCLOSURE CAN POWER UP TO FOUR OF THE FIVE DRIVE SLOTS ONLY.  
THE FOLLOWING ARE SOME OF THE COMBINATIONS:  
- (4) RD52'S  
- RX50, TK50, (2) RD52'S  
- TK50, (3) RD52'S



BA123-A  
BASIC ENCLOSURE  
7022380-01 (120 V)  
7022380-02 (240 V)

VIEW A-A  
(SEE SHEET 2)  
SHOWN WITHOUT FRONT  
OR SIDE PANELS

FILE NAME: AR7022380-0-DBUA  
PLOT AT .5000

REV.	INITIAL

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES	OVER 0	OVER 1/2	OVER 1 1/2
	0.001	0.002	0.005
APPLICABLE DIMENSION RANGE	0.2	1.2	12.0
FORMER ONE	0.001	0.002	0.005
FORMER TWO	0.001	0.002	0.005
FORMER THREE	0.001	0.002	0.005
FORMER FOUR	0.001	0.002	0.005
FORMER FIVE	0.001	0.002	0.005
FORMER SIX	0.001	0.002	0.005
FORMER SEVEN	0.001	0.002	0.005
FORMER EIGHT	0.001	0.002	0.005
FORMER NINE	0.001	0.002	0.005
FORMER TEN	0.001	0.002	0.005
FORMER ELEVEN	0.001	0.002	0.005
FORMER TWELVE	0.001	0.002	0.005
FORMER THIRTEEN	0.001	0.002	0.005
FORMER FOURTEEN	0.001	0.002	0.005
FORMER FIFTEEN	0.001	0.002	0.005
FORMER SIXTEEN	0.001	0.002	0.005
FORMER SEVENTEEN	0.001	0.002	0.005
FORMER EIGHTEEN	0.001	0.002	0.005
FORMER NINETEEN	0.001	0.002	0.005
FORMER TWENTY	0.001	0.002	0.005
FORMER TWENTY ONE	0.001	0.002	0.005
FORMER TWENTY TWO	0.001	0.002	0.005
FORMER TWENTY THREE	0.001	0.002	0.005
FORMER TWENTY FOUR	0.001	0.002	0.005
FORMER TWENTY FIVE	0.001	0.002	0.005
FORMER TWENTY SIX	0.001	0.002	0.005
FORMER TWENTY SEVEN	0.001	0.002	0.005
FORMER TWENTY EIGHT	0.001	0.002	0.005
FORMER TWENTY NINE	0.001	0.002	0.005
FORMER THIRTY	0.001	0.002	0.005
FORMER THIRTY ONE	0.001	0.002	0.005
FORMER THIRTY TWO	0.001	0.002	0.005
FORMER THIRTY THREE	0.001	0.002	0.005
FORMER THIRTY FOUR	0.001	0.002	0.005
FORMER THIRTY FIVE	0.001	0.002	0.005
FORMER THIRTY SIX	0.001	0.002	0.005
FORMER THIRTY SEVEN	0.001	0.002	0.005
FORMER THIRTY EIGHT	0.001	0.002	0.005
FORMER THIRTY NINE	0.001	0.002	0.005
FORMER FORTY	0.001	0.002	0.005
FORMER FORTY ONE	0.001	0.002	0.005
FORMER FORTY TWO	0.001	0.002	0.005
FORMER FORTY THREE	0.001	0.002	0.005
FORMER FORTY FOUR	0.001	0.002	0.005
FORMER FORTY FIVE	0.001	0.002	0.005
FORMER FORTY SIX	0.001	0.002	0.005
FORMER FORTY SEVEN	0.001	0.002	0.005
FORMER FORTY EIGHT	0.001	0.002	0.005
FORMER FORTY NINE	0.001	0.002	0.005
FORMER FIFTY	0.001	0.002	0.005
FORMER FIFTY ONE	0.001	0.002	0.005
FORMER FIFTY TWO	0.001	0.002	0.005
FORMER FIFTY THREE	0.001	0.002	0.005
FORMER FIFTY FOUR	0.001	0.002	0.005
FORMER FIFTY FIVE	0.001	0.002	0.005
FORMER FIFTY SIX	0.001	0.002	0.005
FORMER FIFTY SEVEN	0.001	0.002	0.005
FORMER FIFTY EIGHT	0.001	0.002	0.005
FORMER FIFTY NINE	0.001	0.002	0.005
FORMER SIXTY	0.001	0.002	0.005
FORMER SIXTY ONE	0.001	0.002	0.005
FORMER SIXTY TWO	0.001	0.002	0.005
FORMER SIXTY THREE	0.001	0.002	0.005
FORMER SIXTY FOUR	0.001	0.002	0.005
FORMER SIXTY FIVE	0.001	0.002	0.005
FORMER SIXTY SIX	0.001	0.002	0.005
FORMER SIXTY SEVEN	0.001	0.002	0.005
FORMER SIXTY EIGHT	0.001	0.002	0.005
FORMER SIXTY NINE	0.001	0.002	0.005
FORMER SEVENTY	0.001	0.002	0.005
FORMER SEVENTY ONE	0.001	0.002	0.005
FORMER SEVENTY TWO	0.001	0.002	0.005
FORMER SEVENTY THREE	0.001	0.002	0.005
FORMER SEVENTY FOUR	0.001	0.002	0.005
FORMER SEVENTY FIVE	0.001	0.002	0.005
FORMER SEVENTY SIX	0.001	0.002	0.005
FORMER SEVENTY SEVEN	0.001	0.002	0.005
FORMER SEVENTY EIGHT	0.001	0.002	0.005
FORMER SEVENTY NINE	0.001	0.002	0.005
FORMER EIGHTY	0.001	0.002	0.005
FORMER EIGHTY ONE	0.001	0.002	0.005
FORMER EIGHTY TWO	0.001	0.002	0.005
FORMER EIGHTY THREE	0.001	0.002	0.005
FORMER EIGHTY FOUR	0.001	0.002	0.005
FORMER EIGHTY FIVE	0.001	0.002	0.005
FORMER EIGHTY SIX	0.001	0.002	0.005
FORMER EIGHTY SEVEN	0.001	0.002	0.005
FORMER EIGHTY EIGHT	0.001	0.002	0.005
FORMER EIGHTY NINE	0.001	0.002	0.005
FORMER NINETY	0.001	0.002	0.005
FORMER NINETY ONE	0.001	0.002	0.005
FORMER NINETY TWO	0.001	0.002	0.005
FORMER NINETY THREE	0.001	0.002	0.005
FORMER NINETY FOUR	0.001	0.002	0.005
FORMER NINETY FIVE	0.001	0.002	0.005
FORMER NINETY SIX	0.001	0.002	0.005
FORMER NINETY SEVEN	0.001	0.002	0.005
FORMER NINETY EIGHT	0.001	0.002	0.005
FORMER NINETY NINE	0.001	0.002	0.005
FORMER HUNDRED	0.001	0.002	0.005
FORMER HUNDRED ONE	0.001	0.002	0.005
FORMER HUNDRED TWO	0.001	0.002	0.005
FORMER HUNDRED THREE	0.001	0.002	0.005
FORMER HUNDRED FOUR	0.001	0.002	0.005
FORMER HUNDRED FIVE	0.001	0.002	0.005
FORMER HUNDRED SIX	0.001	0.002	0.005
FORMER HUNDRED SEVEN	0.001	0.002	0.005
FORMER HUNDRED EIGHT	0.001	0.002	0.005
FORMER HUNDRED NINE	0.001	0.002	0.005
FORMER TWO HUNDRED	0.001	0.002	0.005
FORMER TWO HUNDRED ONE	0.001	0.002	0.005
FORMER TWO HUNDRED TWO	0.001	0.002	0.005
FORMER TWO HUNDRED THREE	0.001	0.002	0.005
FORMER TWO HUNDRED FOUR	0.001	0.002	0.005
FORMER TWO HUNDRED FIVE	0.001	0.002	0.005
FORMER TWO HUNDRED SIX	0.001	0.002	0.005
FORMER TWO HUNDRED SEVEN	0.001	0.002	0.005
FORMER TWO HUNDRED EIGHT	0.001	0.002	0.005
FORMER TWO HUNDRED NINE	0.001	0.002	0.005
FORMER THREE HUNDRED	0.001	0.002	0.005
FORMER THREE HUNDRED ONE	0.001	0.002	0.005
FORMER THREE HUNDRED TWO	0.001	0.002	0.005
FORMER THREE HUNDRED THREE	0.001	0.002	0.005
FORMER THREE HUNDRED FOUR	0.001	0.002	0.005
FORMER THREE HUNDRED FIVE	0.001	0.002	0.005
FORMER THREE HUNDRED SIX	0.001	0.002	0.005
FORMER THREE HUNDRED SEVEN	0.001	0.002	0.005
FORMER THREE HUNDRED EIGHT	0.001	0.002	0.005
FORMER THREE HUNDRED NINE	0.001	0.002	0.005
FORMER FOUR HUNDRED	0.001	0.002	0.005
FORMER FOUR HUNDRED ONE	0.001	0.002	0.005
FORMER FOUR HUNDRED TWO	0.001	0.002	0.005
FORMER FOUR HUNDRED THREE	0.001	0.002	0.005
FORMER FOUR HUNDRED FOUR	0.001	0.002	0.005
FORMER FOUR HUNDRED FIVE	0.001	0.002	0.005
FORMER FOUR HUNDRED SIX	0.001	0.002	0.005
FORMER FOUR HUNDRED SEVEN	0.001	0.002	0.005
FORMER FOUR HUNDRED EIGHT	0.001	0.002	0.005
FORMER FOUR HUNDRED NINE	0.001	0.002	0.005
FORMER FIVE HUNDRED	0.001	0.002	0.005
FORMER FIVE HUNDRED ONE	0.001	0.002	0.005
FORMER FIVE HUNDRED TWO	0.001	0.002	0.005
FORMER FIVE HUNDRED THREE	0.001	0.002	0.005
FORMER FIVE HUNDRED FOUR	0.001	0.002	0.005
FORMER FIVE HUNDRED FIVE	0.001	0.002	0.005
FORMER FIVE HUNDRED SIX	0.001	0.002	0.005
FORMER FIVE HUNDRED SEVEN	0.001	0.002	0.005
FORMER FIVE HUNDRED EIGHT	0.001	0.002	0.005
FORMER FIVE HUNDRED NINE	0.001	0.002	0.005
FORMER SIX HUNDRED	0.001	0.002	0.005
FORMER SIX HUNDRED ONE	0.001	0.002	0.005
FORMER SIX HUNDRED TWO	0.001	0.002	0.005
FORMER SIX HUNDRED THREE	0.001	0.002	0.005
FORMER SIX HUNDRED FOUR	0.001	0.002	0.005
FORMER SIX HUNDRED FIVE	0.001	0.002	0.005
FORMER SIX HUNDRED SIX	0.001	0.002	0.005
FORMER SIX HUNDRED SEVEN	0.001	0.002	0.005
FORMER SIX HUNDRED EIGHT	0.001	0.002	0.005
FORMER SIX HUNDRED NINE	0.001	0.002	0.005
FORMER SEVEN HUNDRED	0.001	0.002	0.005
FORMER SEVEN HUNDRED ONE	0.001	0.002	0.005
FORMER SEVEN HUNDRED TWO	0.001	0.002	0.005
FORMER SEVEN HUNDRED THREE	0.001	0.002	0.005
FORMER SEVEN HUNDRED FOUR	0.001	0.002	0.005
FORMER SEVEN HUNDRED FIVE	0.001	0.002	0.005
FORMER SEVEN HUNDRED SIX	0.001	0.002	0.005
FORMER SEVEN HUNDRED SEVEN	0.001	0.002	0.005
FORMER SEVEN HUNDRED EIGHT	0.001	0.002	0.005
FORMER SEVEN HUNDRED NINE	0.001	0.002	0.005
FORMER EIGHT HUNDRED	0.001	0.002	0.005
FORMER EIGHT HUNDRED ONE	0.001	0.002	0.005
FORMER EIGHT HUNDRED TWO	0.001	0.002	0.005
FORMER EIGHT HUNDRED THREE	0.001	0.002	0.005
FORMER EIGHT HUNDRED FOUR	0.001	0.002	0.005
FORMER EIGHT HUNDRED FIVE	0.001	0.002	0.005
FORMER EIGHT HUNDRED SIX	0.001	0.002	0.005
FORMER EIGHT HUNDRED SEVEN	0.001	0.002	0.005
FORMER EIGHT HUNDRED EIGHT	0.001	0.002	0.005
FORMER EIGHT HUNDRED NINE	0.001	0.002	0.005
FORMER NINE HUNDRED	0.001	0.002	0.005
FORMER NINE HUNDRED ONE	0.001	0.002	0.005
FORMER NINE HUNDRED TWO	0.001	0.002	0.005
FORMER NINE HUNDRED THREE	0.001	0.002	0.005
FORMER NINE HUNDRED FOUR	0.001	0.002	0.005
FORMER NINE HUNDRED FIVE	0.001	0.002	0.005
FORMER NINE HUNDRED SIX	0.001	0.002	0.005
FORMER NINE HUNDRED SEVEN	0.001	0.002	0.005
FORMER NINE HUNDRED EIGHT	0.001	0.002	0.005
FORMER NINE HUNDRED NINE	0.001	0.002	0.005
FORMER TEN HUNDRED	0.001	0.002	0.005
FORMER TEN HUNDRED ONE	0.001	0.002	0.005
FORMER TEN HUNDRED TWO	0.001	0.002	0.005
FORMER TEN HUNDRED THREE	0.001	0.002	0.005
FORMER TEN HUNDRED FOUR	0.001	0.002	0.005
FORMER TEN HUNDRED FIVE	0.001	0.002	0.005
FORMER TEN HUNDRED SIX	0.001	0.002	0.005
FORMER TEN HUNDRED SEVEN	0.001	0.002	0.005
FORMER TEN HUNDRED EIGHT	0.001	0.002	0.005
FORMER TEN HUNDRED NINE	0.001	0.002	0.005
FORMER ELEVEN HUNDRED	0.001	0.002	0.005
FORMER ELEVEN HUNDRED ONE	0.001	0.002	0.005
FORMER ELEVEN HUNDRED TWO	0.001	0.002	0.005
FORMER ELEVEN HUNDRED THREE	0.001	0.002	0.005
FORMER ELEVEN HUNDRED FOUR	0.001	0.002	0.005
FORMER ELEVEN HUNDRED FIVE	0.001	0.002	0.005
FORMER ELEVEN HUNDRED SIX	0.001	0.002	0.005
FORMER ELEVEN HUNDRED SEVEN	0.001	0.002	0.005
FORMER ELEVEN HUNDRED EIGHT	0.001	0.002	0.005
FORMER ELEVEN HUNDRED NINE	0.001	0.002	0.005
FORMER TWELVE HUNDRED	0.001	0.002	0.005
FORMER TWELVE HUNDRED ONE	0.001	0.002	0.005

\*THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

7022380-0-DBU  
REV D  
DATE 11/85

7022380-0-DBU  
REV D  
DATE 11/85

RDXX #4/TK50

RDXX #3

RDXX #2

RDXX #1

→ A  
(SEE SHEET 1)

← D  
(SEE SHEET 3)

VIEW C-C  
(SEE SHEET 1)  
SHOWN WITHOUT FRONT  
OR REAR PANELS

REVISIONS		
CHK	CHANGE NO	REV

TITLE BA123-A  
SYSTEM ARRANGEMENT  
SCALE 1/2 SHEET 2 OF 6  
SIZE CODE D  
NUMBER 7022380-0-DBU  
REV A

PLOT AT .5000

1. MLO1

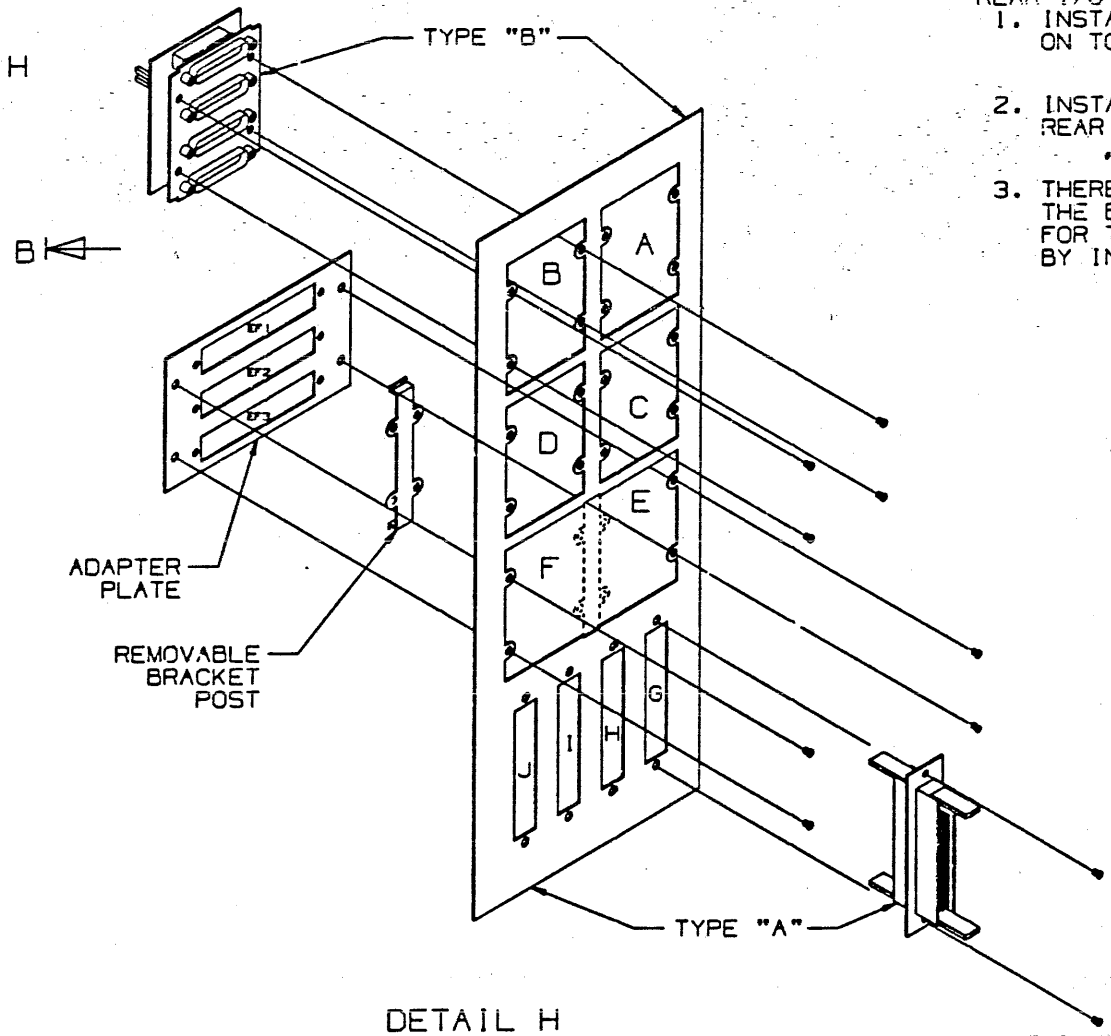
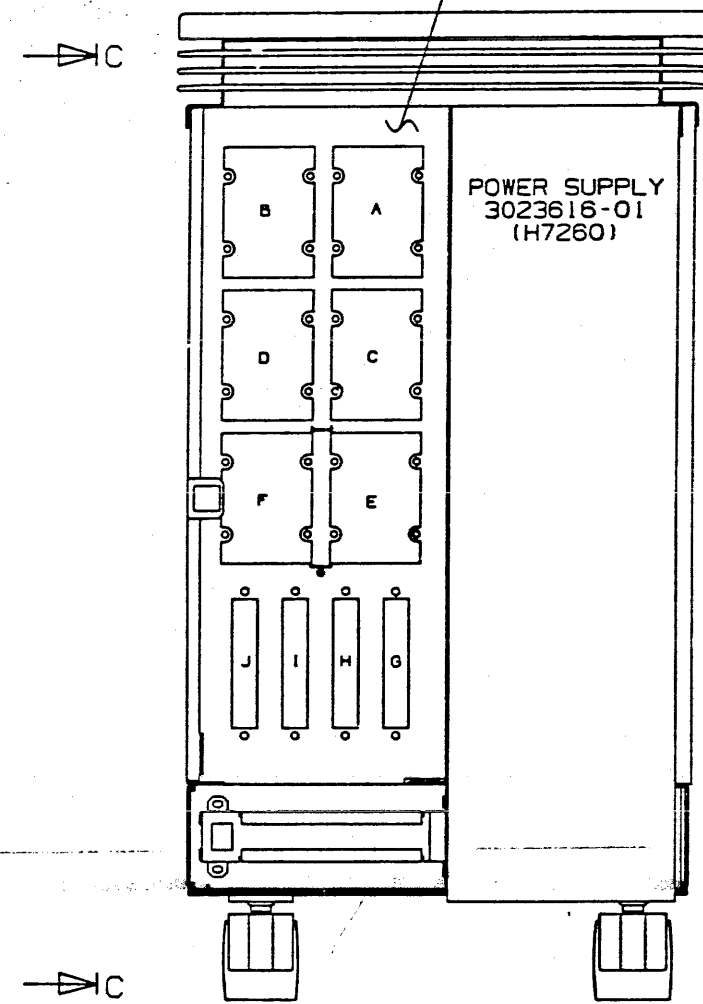
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

7022380-0-DBU 2

NOTES:

- REAR I/O PANEL CONNECTION RULES:
1. INSTALL TYPE "B" (2.5" X 3.2") FILTER PANEL ON TO THE REAR I/O PANEL IN THIS SEQUENCE:  
A → C → E → B → D → F
  2. INSTALL TYPE "A" (1 X 4) FILTER PANEL ON TO REAR I/O PANEL IN THIS SEQUENCE:  
G → H → I → J
  3. THERE IS A REMOVABLE BRACKET POST BETWEEN THE BOTTOM 2 TYPE "B" CUTOUTS. THIS ALLOWS FOR THE ADDITION OF 3 MORE TYPE "A" CUTOUTS BY INSTALLING AN ADAPTER PLATE (7427720-01)

SEE DETAIL H (THIS SHEET)



DETAIL H  
SEE NOTES THIS SHEET  
FOR REAR I/O PANEL  
RULES

C-C  
(SEE SHEET 2)

B-B  
(SEE SHEET 4)

VIEW D-D  
(SEE SHEET 2)  
SHOWN WITHOUT REAR  
OR SIDE PANELS

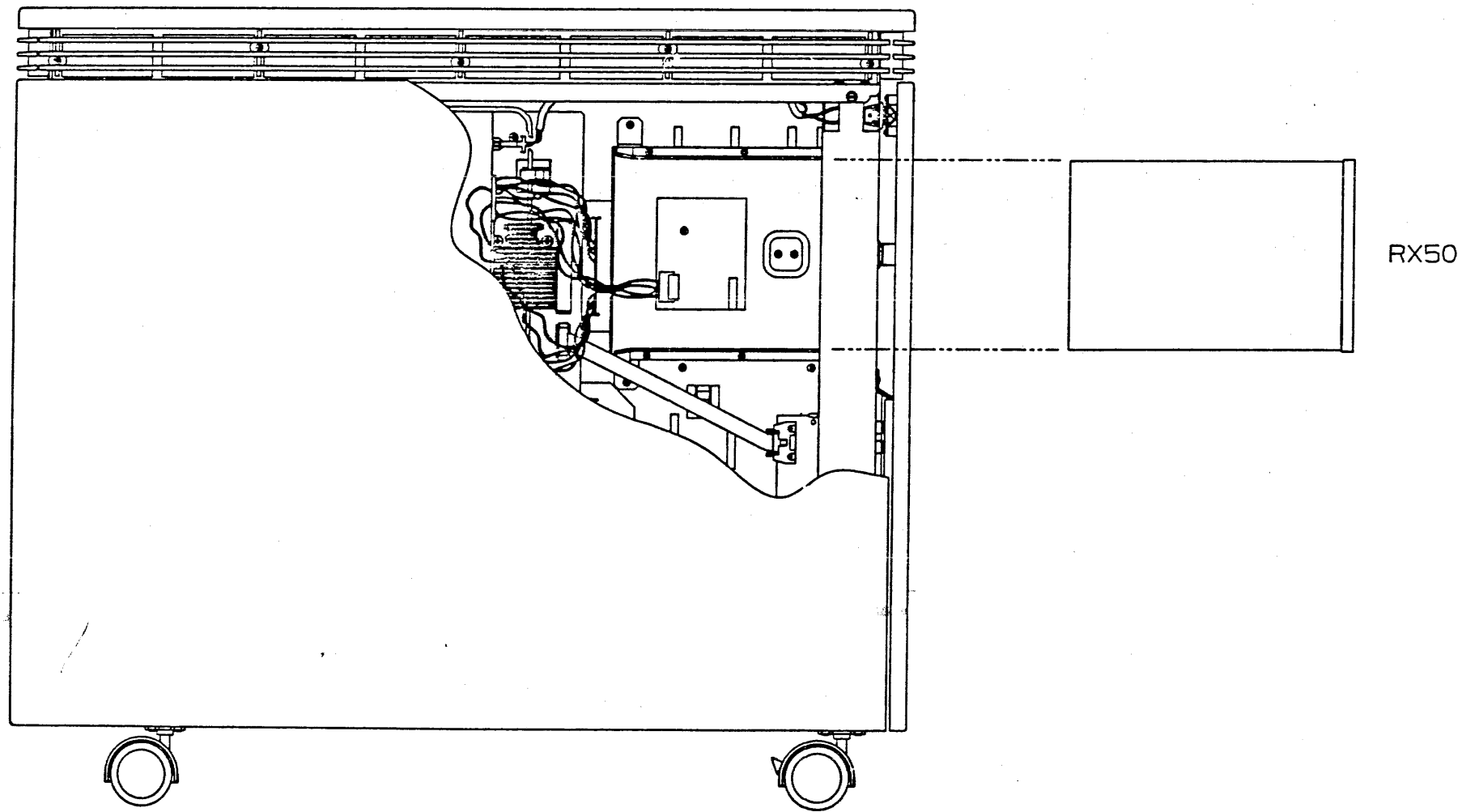
REVISIONS		
CHK	CHANGE NO	REV

PLOT AT .5000

TITLE	BA123-A SYSTEM ARRANGEMENT	SIZE/CODE	D/AR	NUMBER	7022380-0-DBU	REV	A
SCALE	1/2	SHEET	3	OF	8	DIST	

MLG1

THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1995



VIEW B-B  
(SEE SHEET 1)  
(TK50 INSTALLATION)

REVISIONS		
CHK	CHANGE NO	REV

PLOT AT .5000

TITLE	BA123-A SYSTEM ARRANGEMENT	SIZE/SCALE	D/AR	NUMBER	7022380-0-DBU	REV	A
SCALE	1/2	SHEET	4	OF	6	DIST	

MLO1

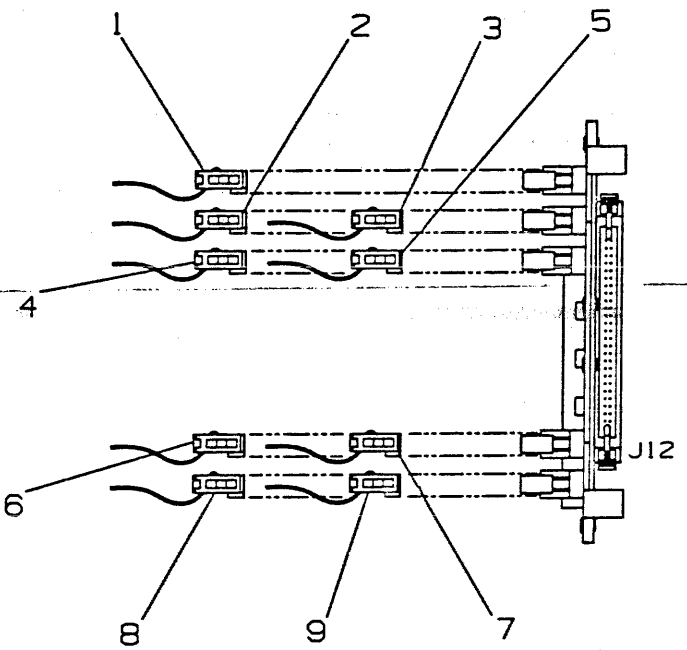
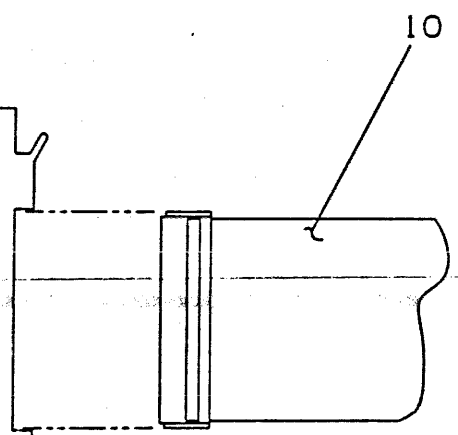
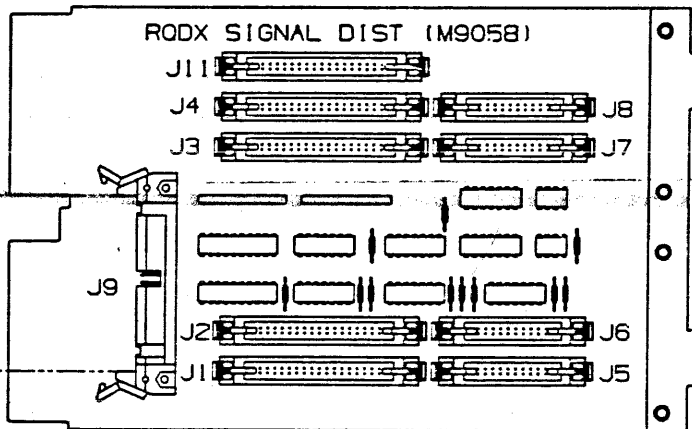
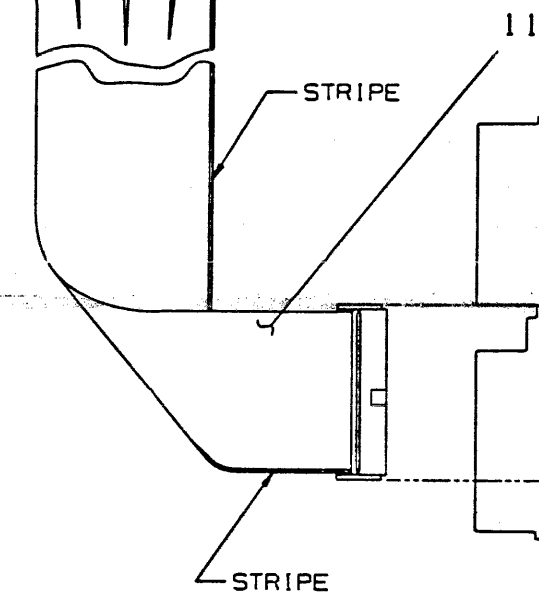
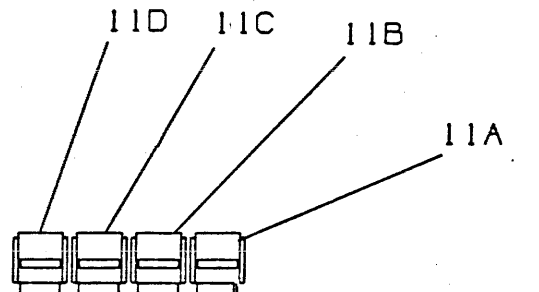
\*THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1965

CABLE LEGEND

ITEM	PART NO.	FROM	TO
1	1700867-01	M9058-J11	RX50
2	1700286-01	M9058-J4	RDXX#4
3	1700282-01	M9058-J8	RDXX#4
4	1700286-01	M9058-J3	RDXX#3
5	1700282-01	M9058-J7	RDXX#3
6	1700286-01	M9058-J2	RDXX#2
7	1700282-01	M9058-J6	RDXX#2
8	1700286-01	M9058-J1	RDXX#1
9	1700282-01	M9058-J5	RDXX#1
10	1700861-01	M9058-J12	RDX2 MODULE
11	1700862-01	M9058-J9	SEE BELOW
11A			RDXX#1 CONSOLE
11B			RDXX#2 CONSOLE
11C			RDXX#3 CONSOLE
11D	1700862-01	M9058-J9	RDXX#4 CONSOLE

NOTES:

1. ITEM #S SHOWN ARE FOR REF ONLY (FOR CABLE HOOK UP ONLY).



REVISIONS		
CHK	CHANGE NO	REV

PLOT AT 1.000

TITLE	BA123-A SYSTEM ARRANGEMENT	SIZE/CD	D/AR	NUMBER	7022380-0-DBU	REV	A
SCALE	1/1	SHEET	5	OF	6	DIST	

MLO1

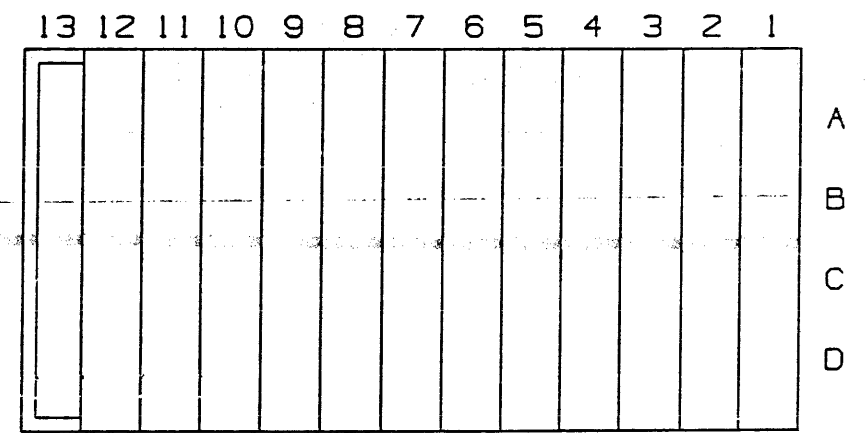
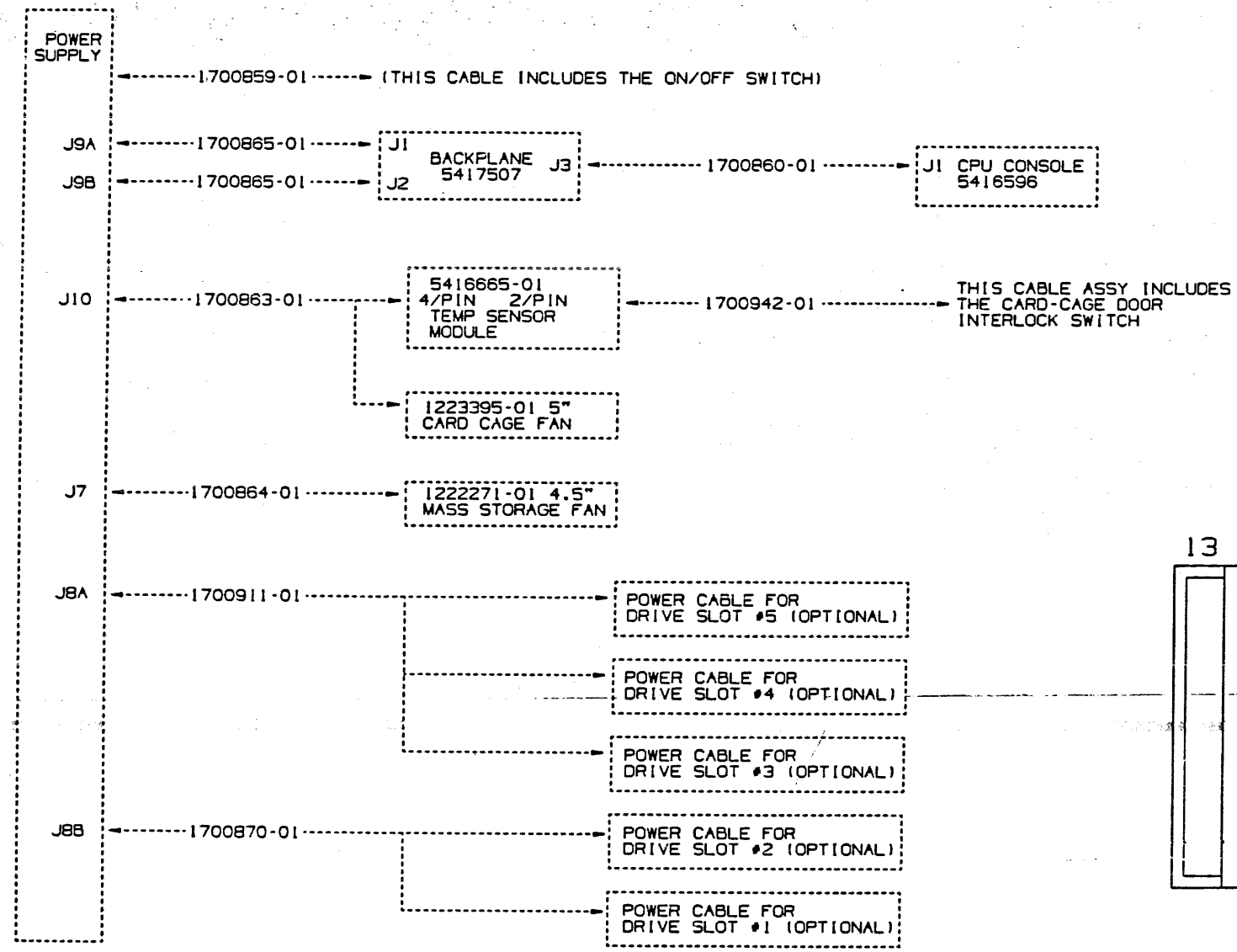
THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1985

D/AR 7022380-0-DBU 2

**NOTES: BACKPLANE CONFIGURATION RULES**

WHEN CONFIGURING THE BACKPLANE, THE FOLLOWING RULES MUST BE REFERENCED:

1. ALL Q-BUS OPTIONS ARE INSTALLED BELOW THE CPU MODULE.
2. QUAD OPTIONS MAY BE INSTALLED ANYWHERE BELOW THE CPU MODULE.
3. DUAL OPTIONS CAN BE INSTALLED ANYWHERE BETWEEN SLOT 5-12 (i.e. AB OR CD ROWS) AND BETWEEN SLOT 1-4 ON THE AB ROWS BELOW THE CPU. NO DUAL OPTIONS MAY BE INSTALLED IN SLOTS 2 THROUGH 4 ON THE CD ROWS.
4. DUAL OPTIONS ALONE IN A SLOT REQUIRE A M9047 GRANT CARD ADJACENT TO THEM (A OR C ROWS).
5. SLOT 13 RESERVED FOR DIGITAL USE ONLY.



BACKPLANE MODULE UTILIZATION- SEE RULES THIS SHEET

BA123-A BASIC ENCLOSURE POWER HARNESS WIRING DIAGRAM

REVISIONS		
CHK	CHANGE NO	REV

PLOT AT 1.000

TITLE	BA123-A SYSTEM ARRANGEMENT	SIZE/SCALE	D/AR 1/1	NUMBER	7022380-0-DBU	REV	A
SHEET	6	OF	6	DIST			

ML01





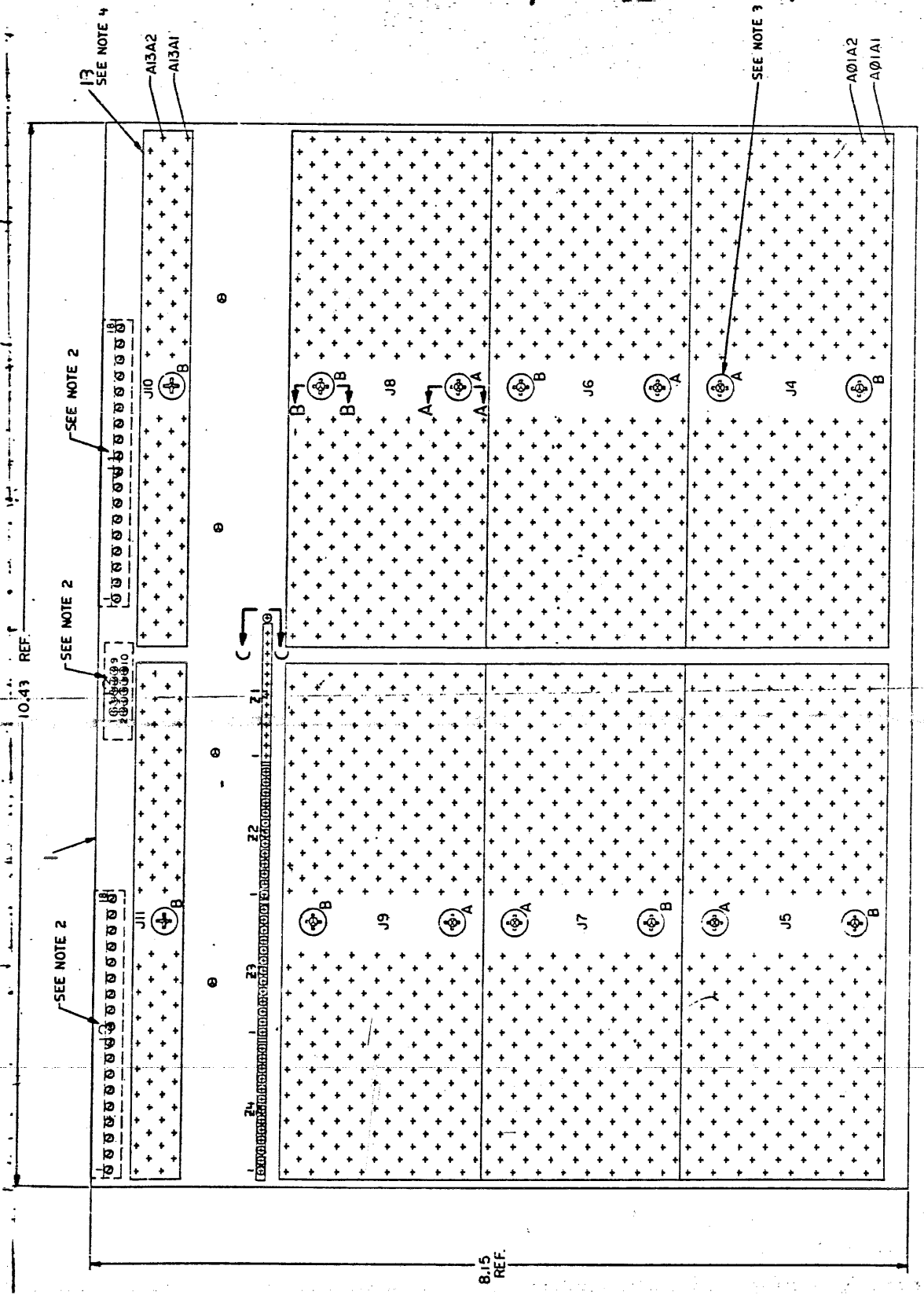
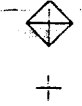
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5017506-0-0	5017506-01		ETCHED BOARD		1	
2	2		1214886-05		PCB HEADER 10POS(2X 5).100CC		1	J2
3	3		1215699-07		PCB,HEADER 18POS(1X18).156CC STR		2	J1,J3
4	4		1217535-05		SKT,IC 13PIN SIP TIN SOLD		4	XZ1-XZ4
5	5		7417041-00		288 PIN CONNECTOR		6	J4-J9
6	6		9000033-12		SPACER,THREADED HEX ALUM 8-3		6	
7	7		9006120-06		SCREW, FILL POZI 8-		14	
8	8		9006035-01		SCREW,MACH PAN PHIL 8-		6	
9	9		9009246-00		SPACER,THREADED HEX ALUM 8-3		8	
10	10		7411881-01		DECAL		1	
11	11		1323505-01		R NETWORK 180/390 2.0 % 13PIN		4	Z1-Z4
12	12		7417042-00		72 PIN CONNECTOR		2	J10-J11
13	13		3623593-01		LABEL,BLANK,PAPER,PIN FEED		1	
14	14		9905016-03		CARTON,DIE CUT,SELF LOCK W/FOAM		1	

REVISION HISTORY		BASIC PART NO: 5417507		DRN: S.MANSOR	DATE: 07-JUN-84	DIGITAL	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: F.GAROFALO	DATE: 1-MAR-85	TITLE PARTS LIST 13 SLOT BACKPLANE	
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG: T.ORR	DATE: 1-MAR-85	DOCUMENT NUMBER	
			[A] 01	RESP.ENG.: T.ORR	DATE: 1-MAR-85	SIZE	CODE
			[B]	MFG.ENG.: R.BELIVEAU	DATE: 1-MAR-85	NUMBER	REV
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	
			[D]	E-UA-5417507-0-0	B-DD-5417507-0-0	TW261A.PLS	
			[E]			RELEASE DATE: 04-MAR-85	
			[F]			EDIT #	
			[H]			4	
			[J]				
			[K]				
			[L]				
			[M]				
			[N]				

"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

J H F E D V U A C B

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED  
 ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED  
 ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED  
 ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED

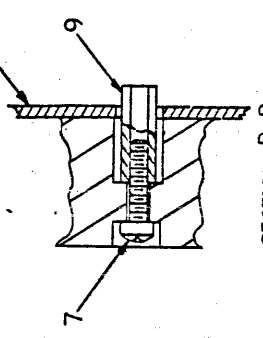


SEE NOTE 4

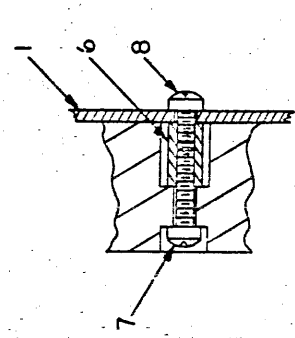
SEE NOTE 2

SEE NOTE 2

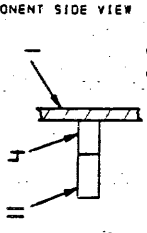
SECTION B-B  
 TYP. 8 PLACES (MARKED 'B')  
 SCALE 2/1



SECTION A-A  
 TYP. 6 PLACES (MARKED 'A')  
 SCALE 2/1



SECTION C-C  
 TYP. 4 PLACES  
 NOT TO SCALE



COMPONENT SIDE VIEW

UN. RATING IS 100WV  
 INSTALL J1, J2, J3 ON SIDE 2  
 BEFORE ITEM 4 (SEE 'LABELLED') AFTER  
 WAVE SOLDER  
 STICK LABEL ON "10"

PREP. BY: [ ] STEP 11W5  
 CRT. & A. BK-5. STEP 11W5

CHANGE NO. REV.

ETCH REV. D

SIGNATURES	DATE	digital
DRN. [ ]	7-27-74	
CHK. D. [ ]	7-27-74	
MECH. ENG. [ ]	7-27-74	
PROJ. ENG. [ ]	7-27-74	
PROD. & DELIVERY [ ]	7-27-74	
SCALE 1/1		
SHT. 1 OF 1		
NET WEIGHT 105% B-DD-5417507-0-0		
SIZE CODE	NUMBER	REV.
UA 5417507-0-0-A		

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				A1	A2														
		5416596-01	BA123-A FRONT PANEL	A1	A2														
D-UA-5416596-0-0	1		BA123-A FRONT PANEL	A	A														
D-CS-5416596-0-1	1		BA123-A FRONT PANEL	A	A														
K-PL-5416596-0-DBP	1		BA123-A FRONT PANEL	A	B														
K-PC-5416596-0-DBC			P.C. DESIGN DATA BASE	A	A														
		5016595-01	ETCHED CIRCUIT BOARD	B1	B1														
B-DD-5016595-0-0	1		DRAWING DIRECTORY	A	A														
K-SP-5416596-0-DBF	6		BA123-A FRONT PANEL	A	A														

**NOTES:**

REVISION HISTORY		DATE	ECO NO.	REV.														
		6-84	INIT	A														
		5-85	ML001	B														

THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS. 1984



DRN. D. LENNON	DATE 27JUN84	TITLE	
CHK'D R. BARRIERE	DATE 27JUN84	BA123-A FRONT PANEL	
DES. ENG. J. PADGETT	DATE 27JUN84	DOCUMENT NUMBER	
RESP. ENG. J. PADGETT	DATE 27JUN84	SIZE B	CODE DD
MFG. ENG. R. BELLIVEAU	DATE 27JUN84	NUMBER 5416596-0-0	
		REV B	
		SHEET 1 OF 1	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	01		
						A2		
1	1	D-MD-5016595-0-0	5016595-01		CIRCUIT DRILL AND ETCH	1		
2	2		1000021-00		220.0 MMF 100V 5%200PPM MICA	1		C1
3	3		1005636-00		22 MFD -6V 10% S.TANT	1		C2
4	4		1012784-00		.047 MFD 50V +80-20% CER	2		C3,C4
5	5		1012312-01		.47 MFD 50V +90-20% CER	1		C5
6	6		1017472-00		10 MFD 35V +75-10% AL EL	1		C6
7	7		1100114-00		PIV= 25 IO=135 MA	1		D1
8	8		1119827-01		LED,SUPERBRIGHT,RED T1 PKG	1		D2
9	9		1116622-02		LED 2.0MCD@25M	1		D3
10	10		1121248-01		GREEN LED T1 4MCD 1"LEADS	1		D4
11	11		1110864-00		LED 2MCD@10MA	2		D5,D6
12	12		1218945-03		SW,PB,LT 1PST NO-MOMENTARY .25A	1		S1
13	13		1218945-01		SW,PB,LT 1PST NO-MAINTAIN .25A	1		S2
14	14		1217310-07		SW,DIP 2POS/1PST 5VDC100MA S	1		S3
15	15		1216832-07		*** THIS ITEM IS NOT USED ***	-		
16	16		1219918-01		SKT,SWITCH 4PIN RT ANGLE	2		XS1,XS2
17	17		1300250-00		150.0 .25 W 5.0 % CF	1		R1
18	18		1311523-00		110.0 .25 W 5.0 % CF	1		R2
19	19		1300271-00		220.0 .25 W 5.0 % CF	1		R3
20	20		1302388-00		2.0 K .25 W 5.0 % CF	4		R4,R5,R6,R7
21	21		1300479-00		10.0 K .25 W 5.0 % CF	4		R10-R13
22	22		1302514-00		39.0 K .25 W 5.0 % CF	2		R14,R15
23	23		1302466-00		100.0 K .25 W 5.0 % CF	1		R16
24	24		1300391-00		1.50 K .25 W 5.0 % CF	2		R8,R9
25	25		1914987-00		8641-2 TRANSCEIVER,UNIBUS,QU	1		E1
26	26		1912858-00		LS221 ONE SHOT-DUAL,SCHMIT	1		E2
27	27		1914156-01		LM 393AN VOLT COMPARATOR,DUA	1		E3
28	28	D-MD-7430089-0-DBU	7430089-01		HOLDER,L.E.D.,SINGLE	1		
29	29		1209941-05		PCB,HEADER 10PIN(2X10).100CC 90D	1		J1
30	30		1209941-04		PCB,HEADER LATCH	1		

REVISION HISTORY		BASIC PART NO: 5416596		DRN: M. FUNARO	DATE: 16-MAR-84	DIGITAL		
ENG	ECO NUMBER	REV	SECTION A - OF A	CHK'D: D. BARRIERE	DATE: 16-MAR-84	TITLE PARTS LIST		
JP	INITIAL	A	SECTION VARIATION INDEX	DES.ENG: J. PADGETT	DATE: 16-MAR-84	DOCUMENT NUMBER		
JP	5416596-ML001	B	[A] 01	RESP.ENG.: J. PADGETT	DATE: 16-MAR-84	SIZE	CODE	NUMBER
			[B]	MFG.ENG.: R. BELIVEAU	DATE: 18-MAY-84	K	PL	5416596-0-DBP
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
			[D]	D-UA-5416596-0-0	B-DD-5416596-0-0	Z9241B.PLS		15
			[E]			RELEASE DATE: 01-MAY-85		
			[F]					
			[G]					
			[H]					
			[I]					
			[J]					
			[K]					
			[L]					
			[M]					
			[N]					

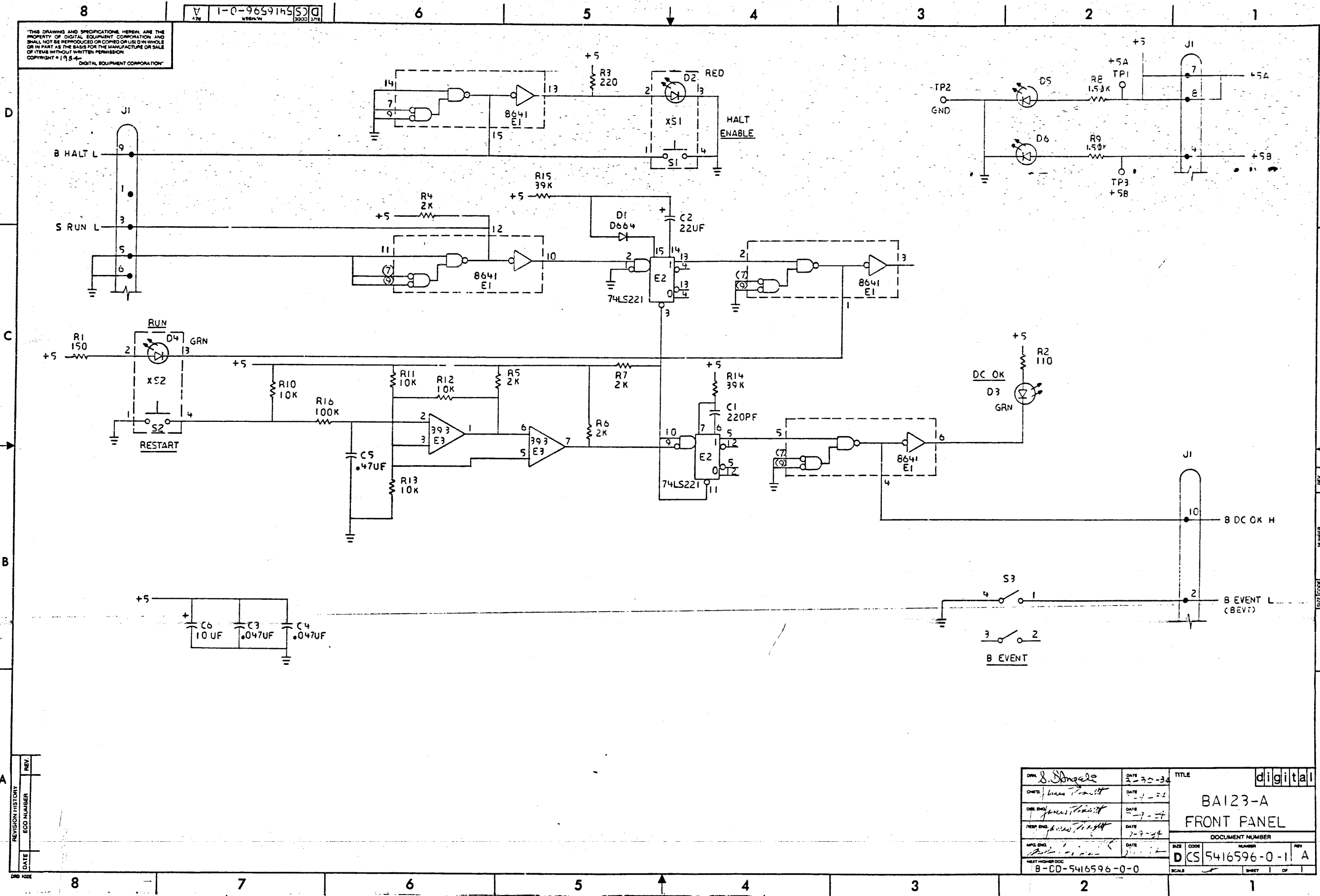
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
31	31	1209941-03		PCB,HEADER LATCH	01 A2 1	

D I G I T A L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	BA123-A FRONT PANEL		K	PL	5416596-0-DBP	B



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT © 1984  
 DIGITAL EQUIPMENT CORPORATION



REV.	DATE	ECO NUMBER

DRW. <i>D. Donato</i>	DATE 2-20-84	TITLE digital
CHKD. <i>John Smith</i>	DATE 2-21-84	BA123-A
DES. <i>John Smith</i>	DATE 2-21-84	FRONT PANEL
TRSP. <i>John Smith</i>	DATE 2-21-84	DOCUMENT NUMBER
WFL. <i>John Smith</i>	DATE 2-21-84	SIZE CODE NUMBER REV
NEAT NUMBER DOC	B-00-5416596-0-0	D CS 5416596-0-1 A
SCALE	SHEET	OF

THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURING OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS.

DRAWING DIRECTORY

ITEM	DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	TYPE	REVISIONS												
						A1	A1	A2										
1			5416665-01	TEMP SENSOR BD.		A1	A1	A2										
2	D-UA-5416665-0-0	1		TEMP SENSOR BD.		A	B	C										
3	D-CS-5416665-0-1	1		TEMP SENSOR BD.		A	A	A										
4	K-PL-5416665-0-DBP	1		TEMP SENSOR BD.		A	A	B										
5	K-PC-5416665-0-DBC			P.C. DESIGN DATA BASE		A	A	A										
6			5016664-01	ETCHED CIRCUIT BOARD		B1	B1	B1										
7	B-DD-5016664-0-0	1		DRAWING DIRECTORY		A	A	A										

NOTES:

DD  
REV

A B C

REVISION HISTORY			CONT. REVISION HISTORY			MADE BY: P. LENNON DATE: 23-OCT-84		d i g i t a l			
ENG	ECO NUMBER	REV	ENG	ECO NUMBER	REV	CHECKED BY: D. BARRIERE DATE: 23-OCT-84		TITLE DRAWING DIRECTORY			
TO	INITIAL 5416665-ML001	A				DESIGN ENGINEER: T. ORR DATE: 23-OCT-84		TEMP SENSOR BD.			
RL	5416665-MK002	C				RESPONSIBLE ENG: R. LIGENZA DATE: 04-FEB-86					
						PRODUCTION ENG: NEMI HARRIS DATE: 04-FEB-86		SIZE K	CODE DD	DOCUMENT NUMBER K-DD-5416665-0	REV. C
								SHEET 1 OF 1 MKO			



PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	D-MD-5016664-0-0	50-16664-01		CIRCUIT DRILL & ETCH	1	
2	2		13-24146-01		*** THIS ITEM IS NOT USED ***	-	
3	3		12-23681-03		THERMOSTAT, NO C3 50C	1	
4	4		12-11342-04		MATE-N-LOK 04PIN(1X04).200CC HDR	1	TS1
5	5		12-11342-02		MATE-N-LOK 02PIN(1X02).200CC HDR	1	J1
6	6		90-07254-00		TRANSIPADS #10146	2	J2
7	7		13-25654-01 A		THERMISTOR, EPOXY COATED, 50J0HM 5	1	R1

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: T. ORR	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	DATE:	DIGITAL	
TO	INITIAL	A	[A] 01	D. BARRIERE	25-OCT-84	TITLE PARTS LIST	
RL	5416665-MK002	B	[B]		25-OCT-84	TEMP SENSOR BD	
			[C]	DES. ENG: T. ORR	25-OCT-84	DOCUMENT NUMBER	
			[D]	RESP. ENG.: T. ORR	25-OCT-84	SIZE: K	CODE: PL
			[E]	MFG. ENG: B. LAIDMAN	25-OCT-84	NUMBER: 5416665-0-D3P	REV: B
			[F]			RELEASE DATE:	
			[G]			RELEASE STATUS: UNDER CHANGE	
			[H]	BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:
			[I]	5416665	D-UA-5416665-0-0	B-DD-5416665-0-0	MK1283.PLS
			[J]				EDIT #
			[K]				2

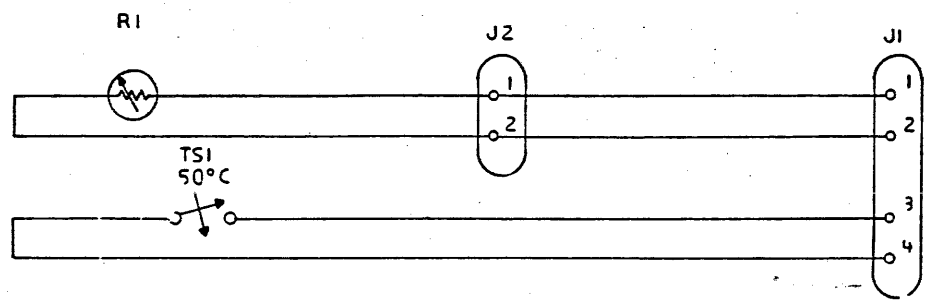
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."



8 6 5 4 3 2 1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT © 1974  
 DIGITAL EQUIPMENT CORPORATION

REV. 1-0-5999145  
 DCS 5416665-0-1 A



REV	
ECO NUMBER	
DATE	

DESIGNED BY <i>L. S. Angelo</i>	DATE 29 OCT 84	TITLE digital
CHECKED BY <i>D. B. ...</i>	DATE 24 OCT 84	TEMP SENSOR BD
DRAWN BY <i>J. Pracht</i>	DATE 13 OCT 84	
REVISION BY <i>J. Pracht</i>	DATE 13 OCT 84	DOCUMENT NUMBER
APPROVED BY <i>D. L. ...</i>	DATE 21 OCT 84	SIZE CODE D CS 5416665-0-1 A
B-DD-5416665-0		SCALE

8 7 6 5 4 3 2 1

D  
C  
B  
A  
D  
C  
B  
A  
D  
C  
B  
A