

DRAWING DIRECTORY

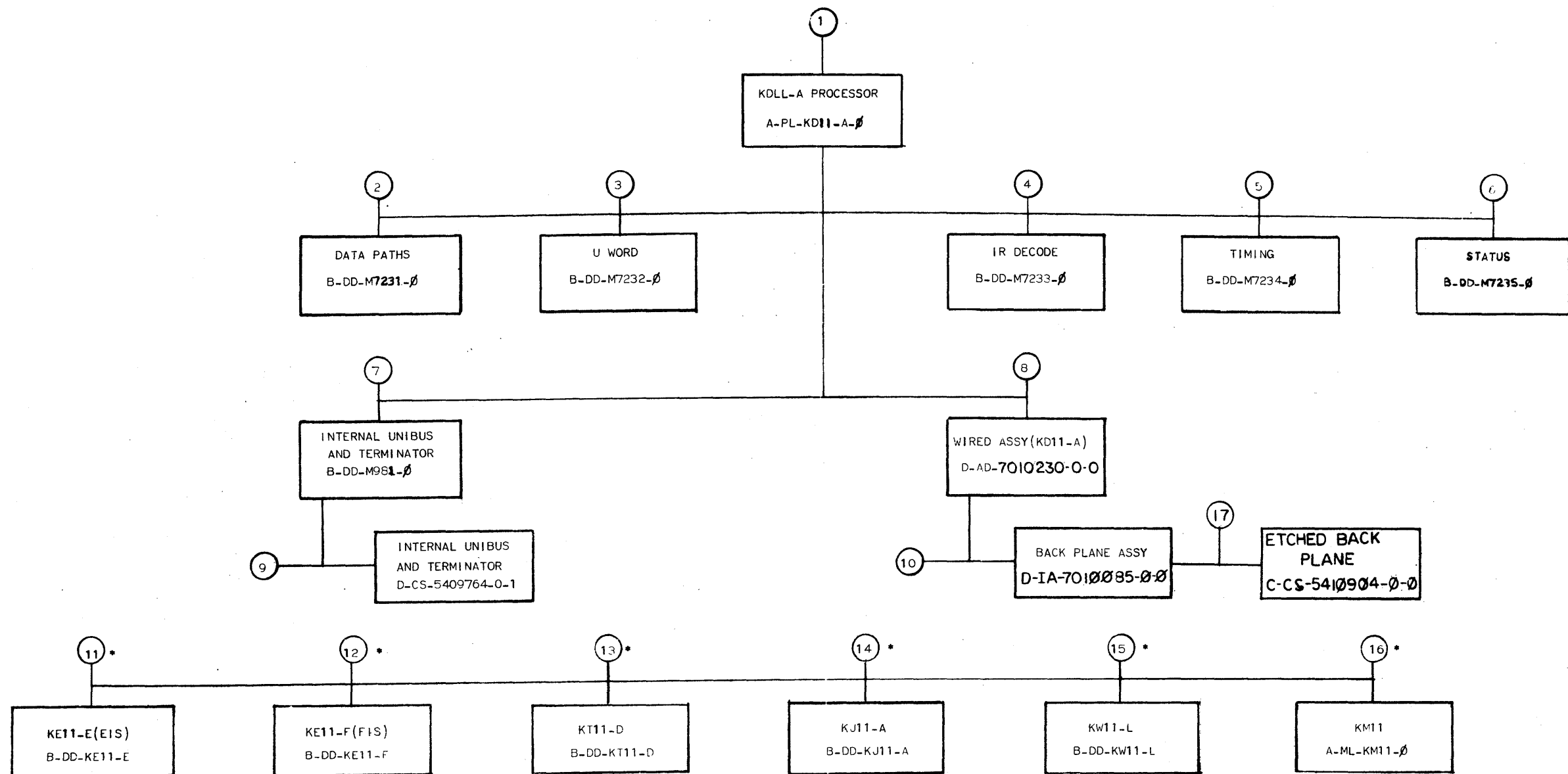
CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

--	--	--	--	--

	SEQUENCE
DRAWING DIRECTORY	B-DD-KD11-A
KD11-A PROCESSOR (BLOCK DIAGRAM U WORD & TABLES)	D-BD-KD11-A-BD
FLOW DIAGRAM	D-FD-KD11-A-FD
PARTS LIST	A-PL-KD11-A-Ø
MODULE UTILIZATION	D-MU-KD11-A-MU
DATA PATHS	D-CS-M7231-Ø-1
U WORD	D-CS-M7232-Ø-1
IR DECODE	D-CS-M7233-Ø-1
TIMING	D-CS-M7234-Ø-1
STATUS	D-CS-M7235-Ø-1
INTERNAL UNIBUS AND TERMINATOR (M981)	D-CS-5409764-Ø-1
CIRCUIT SCHEMATIC BACK PLANE	C-CS-540904 -Ø-1
BACK PANEL (WIRE & ETCH LIST)	K-WL-KD11-A-WL (COMPLETE)
AWT REVISION STATUS	A-WT-7010 230-0
STACK LIMIT REGISTER	B-DD-KJ11-A
LINE FREQUENCY CLOCK	B-DD-KW11-L
MAINTENANCE BOARD (1&2)	D-BS-KM11-Ø-MB
SILK SCREEN (KD11-A)	A-SS-5509081-0-12
SILK SCREEN (KT11-D, Kell-E, F)	A-SS-5509081-0-13

[illegible][illegible]



* OPTIONS TO KD11-A PROCESSOR

TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	RFV
KD11-A PROCESSOR	B DD		KD11-A	N

BRUNING 40.522 15040

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.

D

U
N
I
B
U
S

C

B

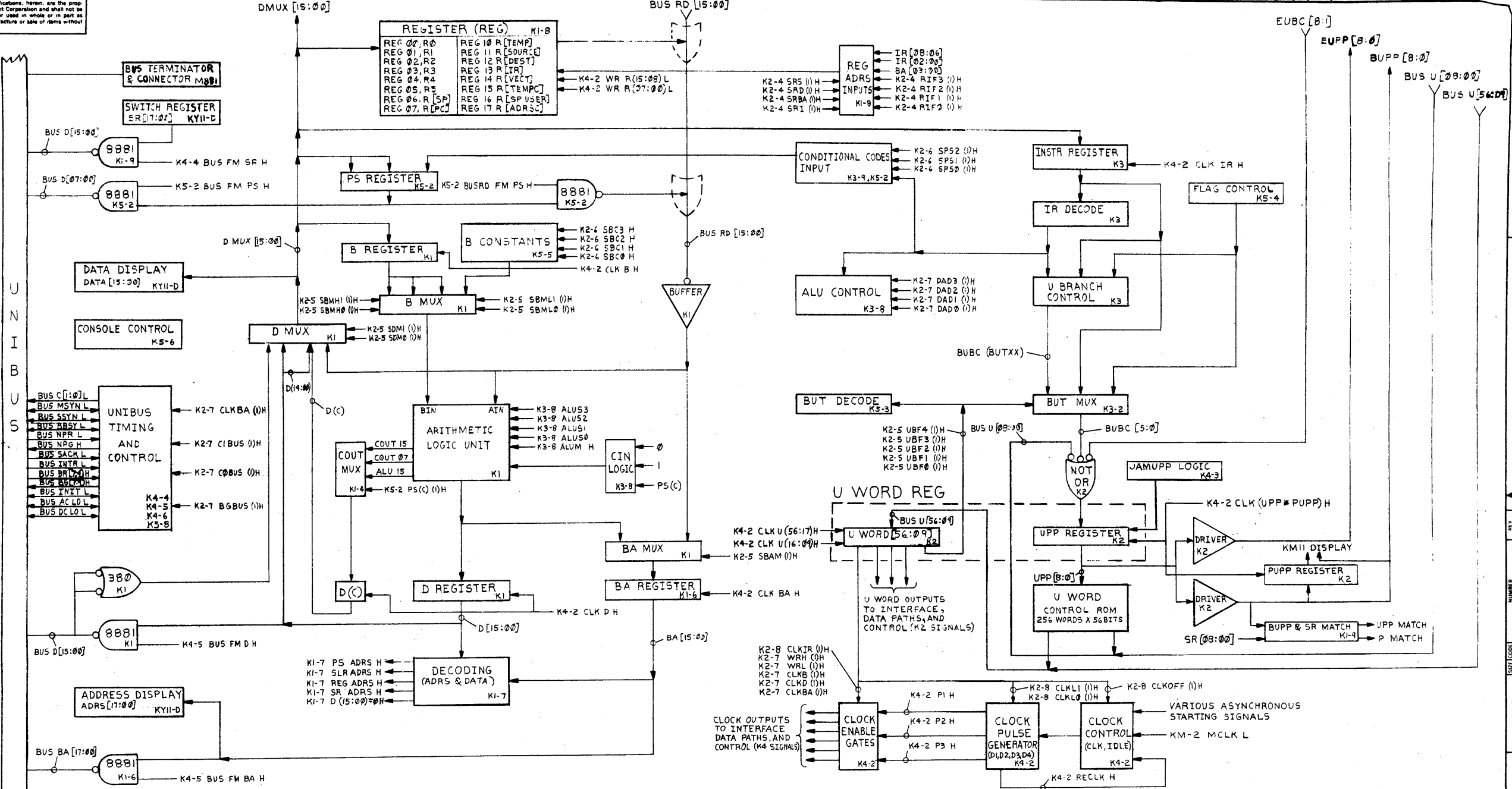
D

C

A

B

A



INTERFACE

DATA PATHS

MICROCONTROL

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.						
PDP11		PARTS LIST									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>2 Pdp11</i>	DATE <i>7-21-72</i>	 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS							
		CNK'D <i>7/21/72</i>	DATE <i>7-25-72</i>								
		B.G. <i>7/25/72</i>	DATE <i>7-25-72</i>								
		ROJ. ENG. <i>7/25/72</i>	DATE <i>7-25-72</i>								
DECIMALS ANGLES .XXX = .005 ±0° 30' .XX = .02 .X = .1	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		TITLE KD11-A PROCESSOR (BLOCK DIAGRAM)								
MATERIAL <i>++</i>		NEXT HIGHER ASSY. B-DD-KDH-A		SIZE CODE D BD	NUMBER K011-A-80						
FINISH <i>++</i>		SCALE <i>None</i>		REV. <i>A</i>							
		SHEET <i>OF 3</i>		DIST. <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							

D

C

B

A

D

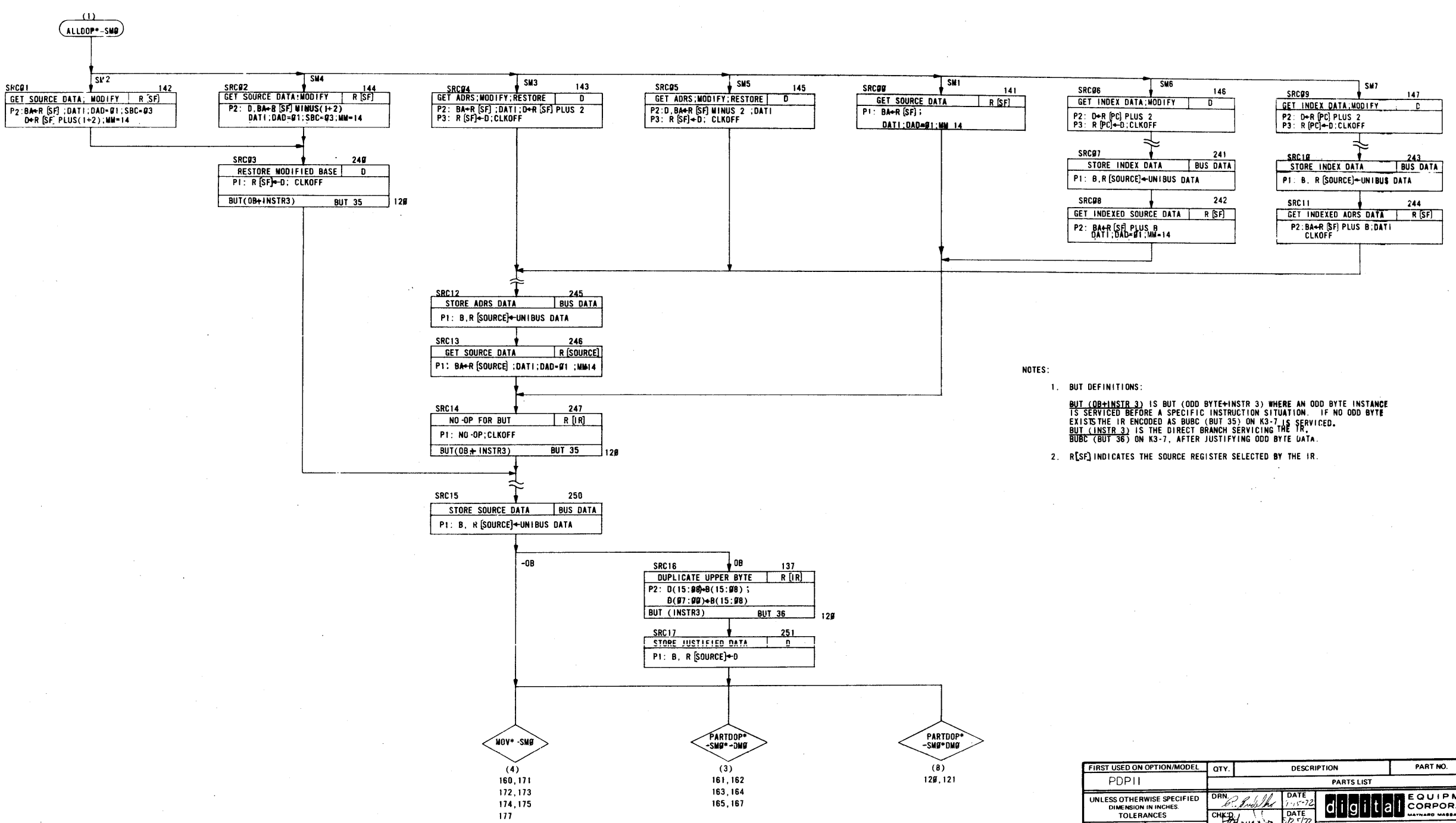
C

B

A

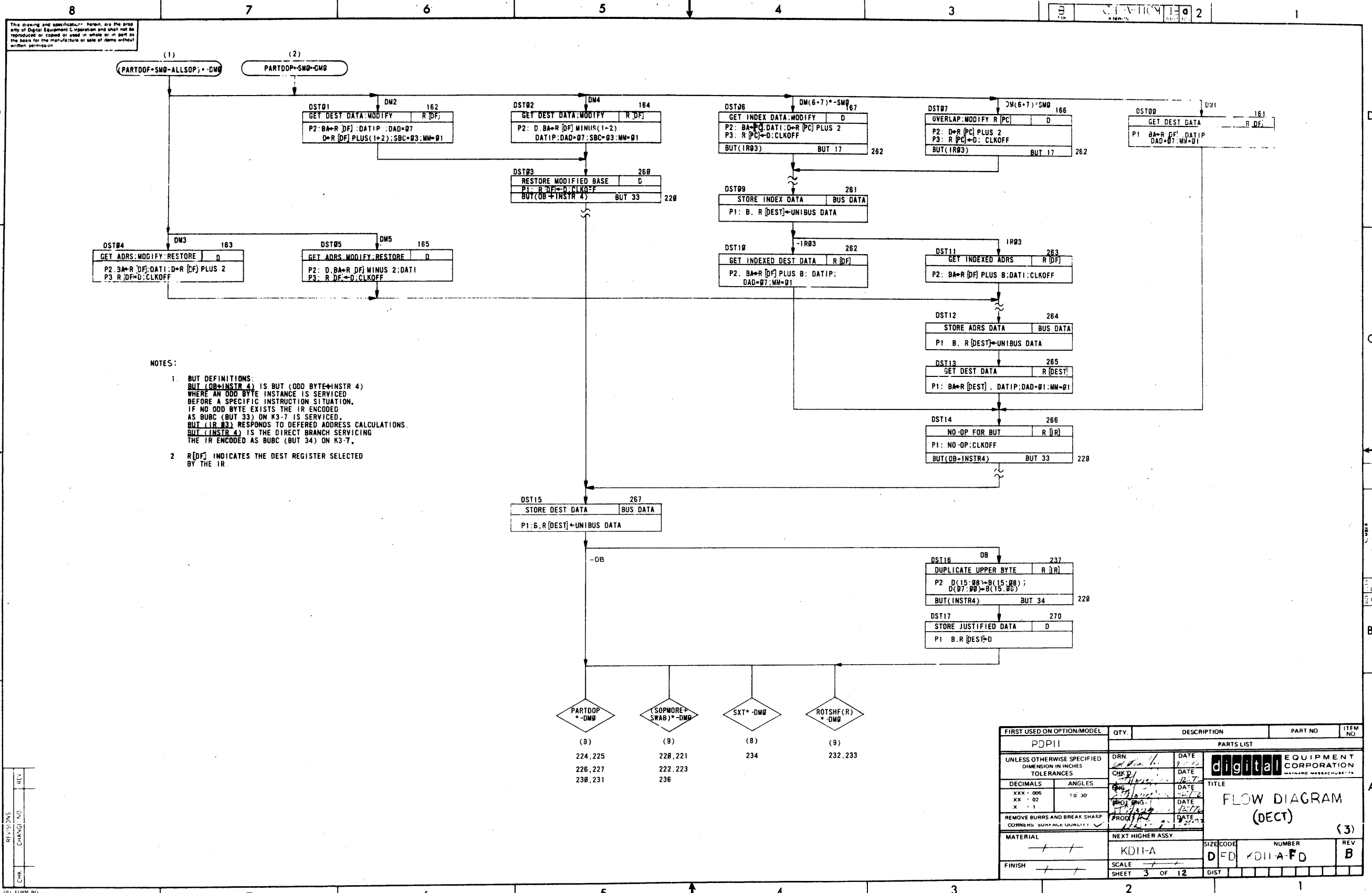
REV	CHG	NO

DEC FORM NO
DRD 102-B

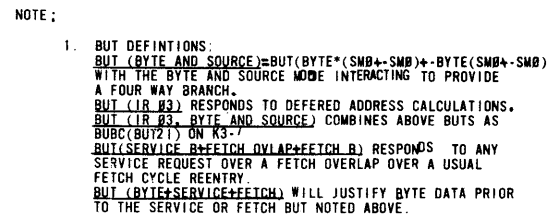


- NOTES:
- BUT DEFINITIONS:
BUT (OB+INSTR 3) IS BUT (ODD BYTE+INSTR 3) WHERE AN ODD BYTE INSTANCE IS SERVICED BEFORE A SPECIFIC INSTRUCTION SITUATION. IF NO ODD BYTE EXISTS THE IR ENCODED AS BUBC (BUT 35) ON K3-7 IS SERVICED.
BUT (INSTR 3) IS THE DIRECT BRANCH SERVICING THE IR.
BUBC (BUT 36) ON K3-7, AFTER JUSTIFYING ODD BYTE DATA.
 - R(SF) INDICATES THE SOURCE REGISTER SELECTED BY THE IR.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
XXX = .005	± 0° 30'	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
XX = .02		DATE 1/15/72		
X = .1		DATE 1/25/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 1/25/72		
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE		
SHEET 2 OF 12		DIST		
B-DD-KDII-A		SIZE CODE		
D/FD		NUMBER		
KDII-A-FD		REV		
B		(2)		



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
POP11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN: 10-12 CHK: 10-12 DATE: 10-12	digital EQUIPMENT CORPORATION TITLE: FLOW DIAGRAM (DECT)	
DECIMALS: XXX = .005 XX = .02 X = .1	ANGLES: 10 30'	DATE: 10-12 DATE: 10-12 DATE: 10-12	REV: B	
REMOVE BURRS AND BREAK SHARP CORNERS: SURFACE QUALITY		NEXT HIGHER ASSY: KDI1-A		
MATERIAL: + + +		SCALE: + + +	SIZE CODE: DFD	NUMBER: KDI1-A-FD
FINISH: + + +		SHEET: 3 OF 12	DIST:	REV: B



FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO.	ITEM NO.
PDP 11		PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN 11/26/76	DATE 11/26/76	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	CHK'D 11/26/76	DATE 11/26/76		
XXX - .005	+0° 30'	ENG. 11/26/76	DATE 11/26/76	TITLE FLOW DIAGRAM (MOV)	
XX - .02		PROJ. ENG. 11/26/76	DATE 11/26/76		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROB. 11/26/76	DATE 11/26/76		
MATERIAL		NEXT HIGHER ASSY.		(4)	
_____		B-00-K011-A		SIZE CODE	NUMBER
_____		_____		D F D	K011-A- FD
FINISH		SCALE		REV	8
_____		SHEET 4 OF 12			

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.

D

C

B

A

D

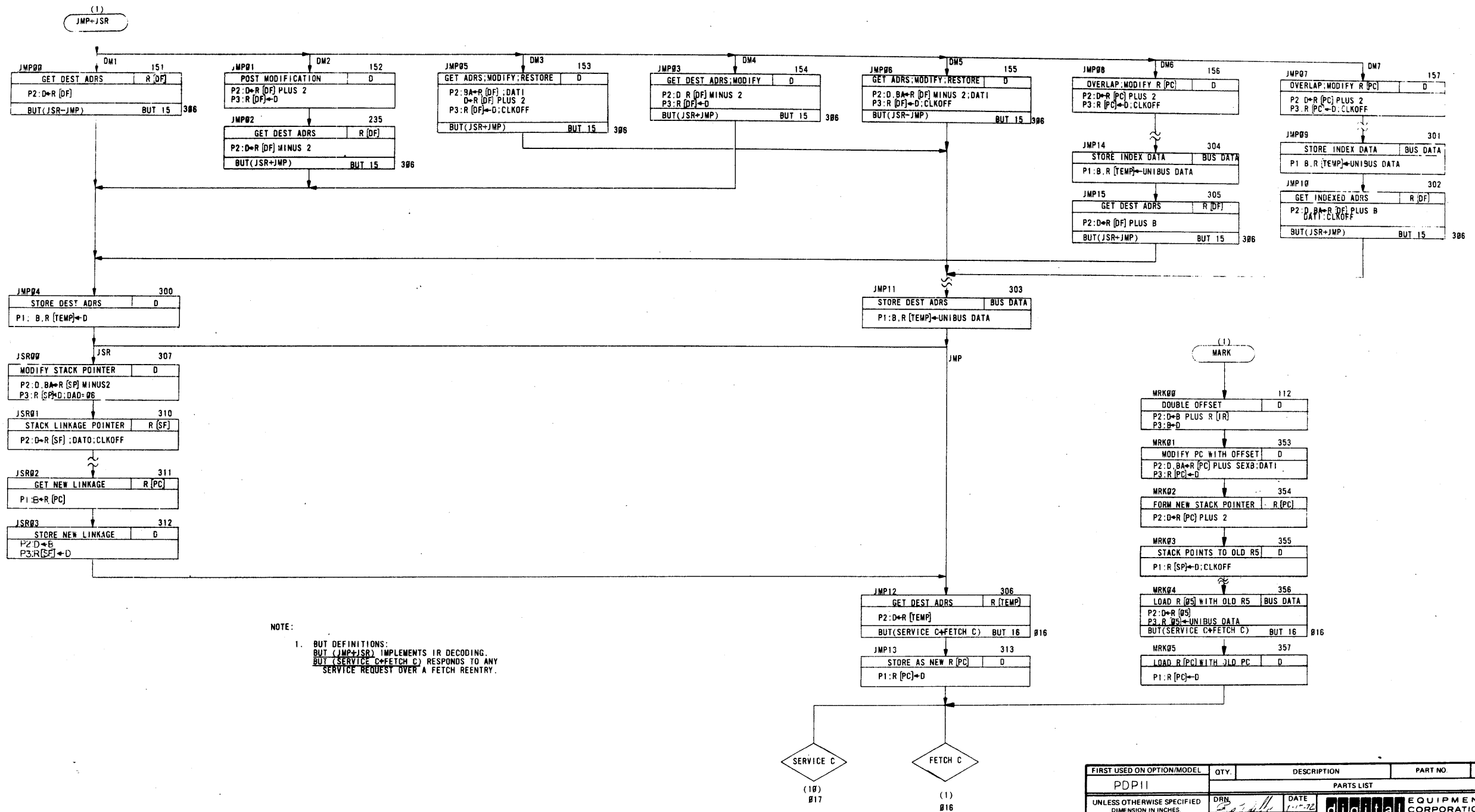
C

B

A

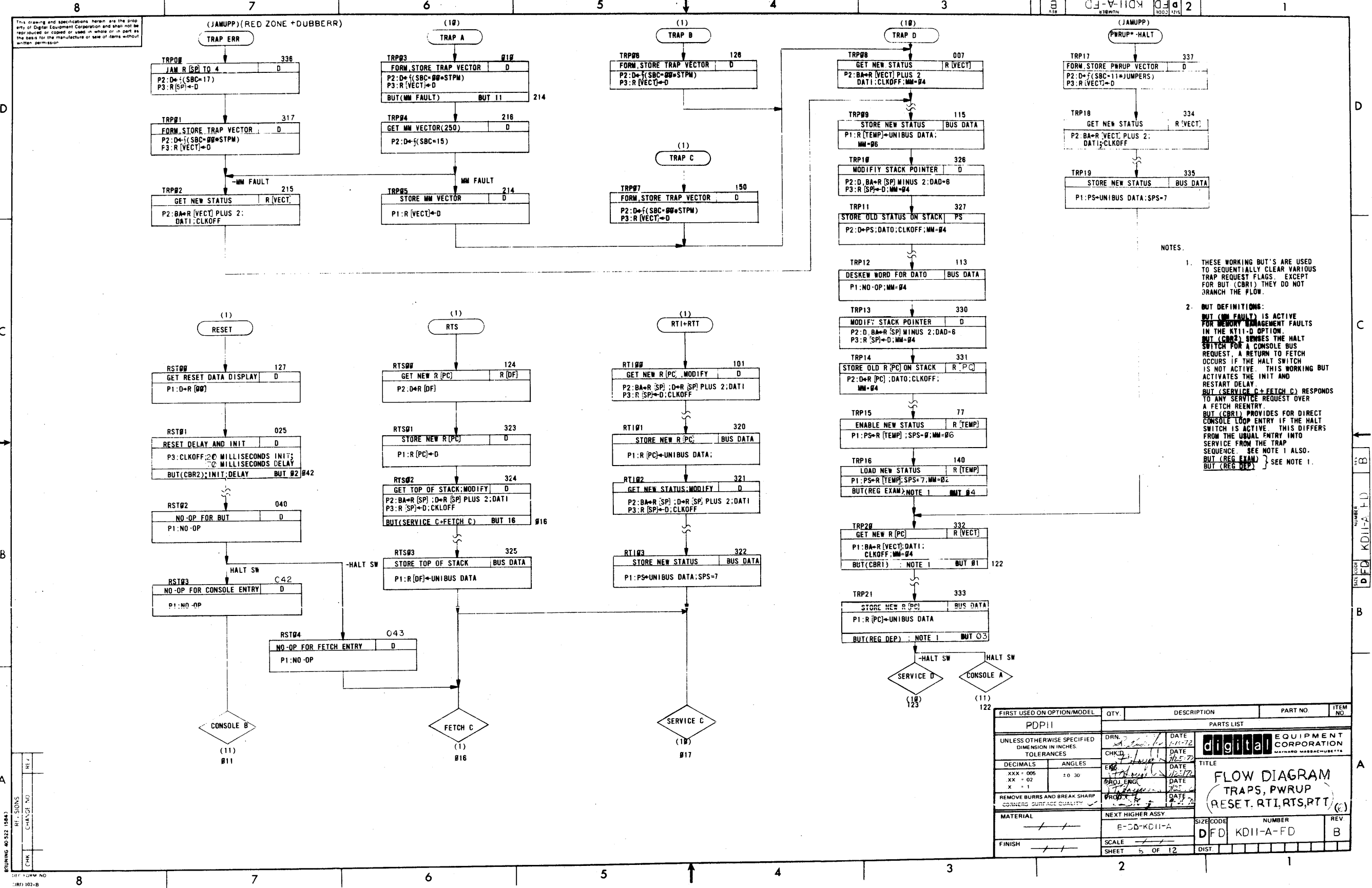
REV	NO
CHK	NO

DEC 10MM NO
DRD 102-B



NOTE:
1. BUT DEFINITIONS:
BUT (JMP+JSR) IMPLEMENTS IR DECODING.
BUT (SERVICE C+FETCH C) RESPONDS TO ANY
SERVICE REQUEST OVER A FETCH REENTRY.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX = .005	10° 30'	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
.XX = .02		TITLE FLOW DIAGRAM (JMP,JSR,MARK)		
.X = .1		MATERIAL NEXT HIGHER ASSY B-DD-KG11-A		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		SCALE SHEET 5 OF 12		
FINISH		SIZE CODE D F D		
		NUMRER KD11-A-FD		
		REV B		



- NOTES.
1. THESE WORKING BUT'S ARE USED TO SEQUENTIALLY CLEAR VARIOUS TRAP REQUEST FLAGS, EXCEPT FOR BUT (CBR1) THEY DO NOT BRANCH THE FLOW.
 2. BUT DEFINITIONS:
BUT (MM FAULT) IS ACTIVE FOR MEMORY MANAGEMENT FAULTS IN THE K111-D OPTION.
BUT (CBR2) SWINGS THE HALT SWITCH FOR A CONSOLE BUS REQUEST, A RETURN TO FETCH OCCURS IF THE HALT SWITCH IS NOT ACTIVE. THIS WORKING BUT ACTIVATES THE INIT AND RESTART DELAY.
BUT (SERVICE C+FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.
BUT (CBR1) PROVIDES FOR DIRECT CONSOLE LOOP ENTRY IF THE HALT SWITCH IS ACTIVE. THIS DIFFERS FROM THE USUAL ENTRY INTO SERVICE FROM THE TRAP SEQUENCE. SEE NOTE 1 ALSO.
BUT (REG EXAM) } SEE NOTE 1.
BUT (REG DEP)

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.		DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES		CHKD.	DATE		
DECIMALS	ANGLES	ENG.	DATE		
XXX + .005	± 30	PROJ. ENG.	DATE		
XX + .02		PROD.	DATE	TITLE FLOW DIAGRAM (TRAPS, PWRUP RESET, RTI, RTS, RTT)	
X + .1			DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
MATERIAL		B-30-KD11-A		DFD	KD11-A-FD
FINISH		SCALE	SHEET 5 OF 12	DIST.	REV 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.

D

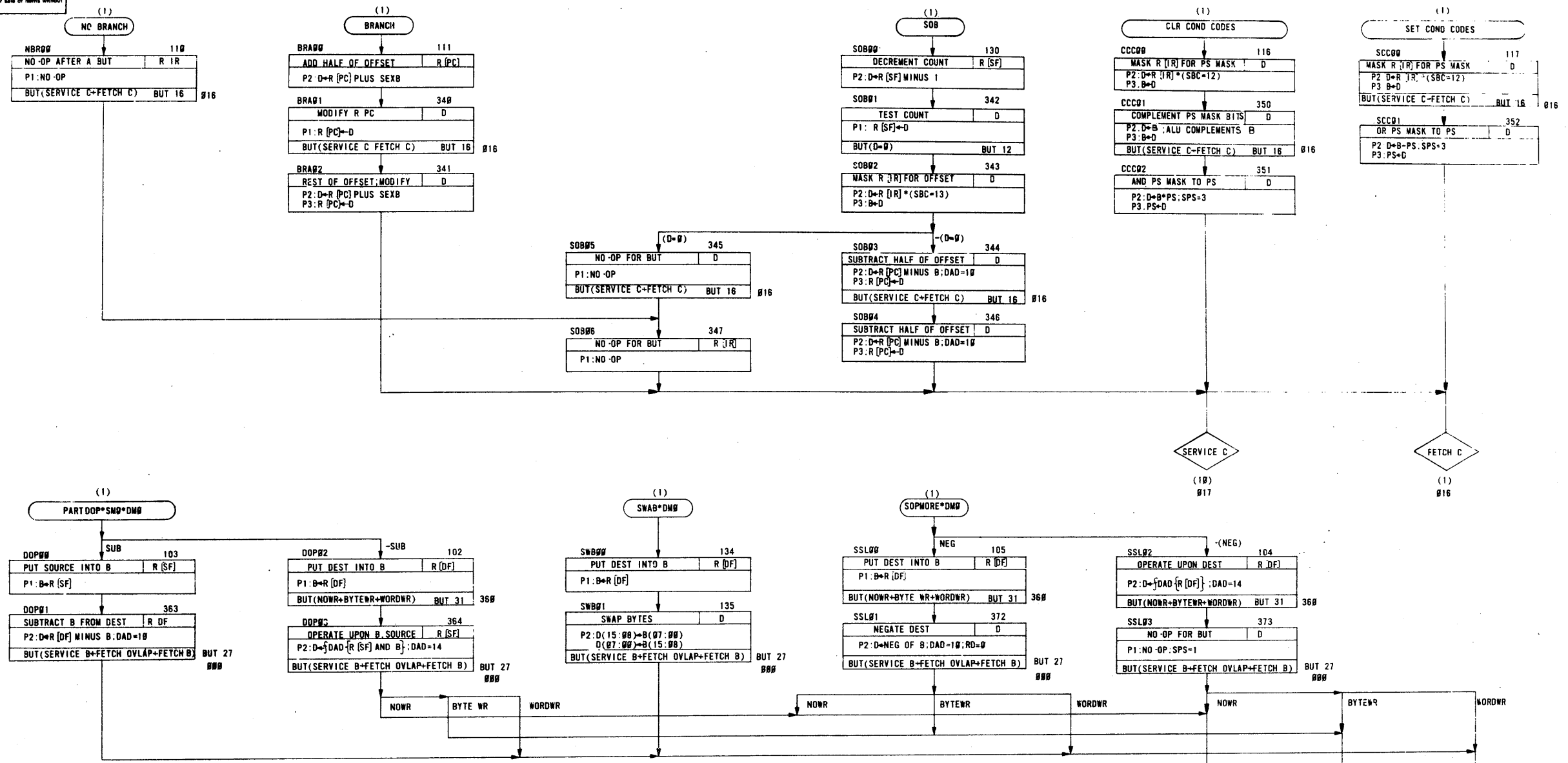
C

B

A

REV.	CHG.	NO.	DATE
CHK			

DEC 10 1970



NOTE:
1. BUT DEFINITIONS:
BUT (SERVICE C-FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.
BUT (D=0) SENSES A ZERO CONTENT OF THE D REGISTER.
BUT (NOWR+BYTEWR+WORDWR) PROVIDES FOR DIFFERENT REGISTER WRITE OPERATION AS A FUNCTION OF IR DECODING.
BUT (SERVICE B-FETCH OVLAP+FETCH B) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH OVLAP OVER A USUAL FETCH REENTRY.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST			
DECIMALS ANGLES		TITLE			
XXX - .005 .XX - .02 .X - .1		digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		FLOW DIAGRAM BR.SOB.CODES. PARTDOP SWAB SOPMORE DMO (7)			
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH		B-00-KCII-A		D FD	KCII-A-FD
		SCALE		SHEET	REV
		7 OF 12		DIST	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.

D

C

B

A

DEC FORM NO
DRD 102-B

(3)
PARTDOP*DMB

OB

SUB

SMW

DOP#4 226
PUT SOURCE INTO B R(SF)
P1:B=R(SF)

DOP#6 365
SUBTRACT B FROM DEST:STORE(DEST)
P2:D=R(DEST) MINUS B:DAD=10
DATO:MM=01

(2)
PARTDOP*SMW*DMB

DOP13 121
PUT SOURCE INTO B R(SOURCE)
P1:B=R(SOURCE)

DOP14 370
SUBTRACT B FROM DEST R(DF)
P2:D=R(DF) MINUS B
BUT(SERVICE B+FETCH OVLAP+FETCH B) BUT 27 000

DOP#5 227
PUT SOURCE INTO B R(SOURCE)
P1:B=R(SOURCE)

DOP15 120
PUT DEST INTO B R(DF)
P1:B=R(DF)
BUT(NOWR+BYTEWR+WORDWR)

DOP16 371
OPERATE UPON B, SOURCE R(SOURCE)
P2:D=DAD(R(SOURCE) AND B):DAD=14
BUT(SERVICE B+FETCH OVLAP+FETCH B) BUT 27 000

DOP#7 224
OPERATE UPON B, SOURCE:STORE D
P2:D=DAD(R(SF) AND B)
(DATO+DATOB):DAD=17:MM=01

DOP18 361
ALTER CODES, BYTE STORE D
P1:R(DF)=D(BYTE):SPS=3
CLKOFF IF OVLAP(1):CLK=0

DOP#8 225
OPERATE UPON B, SOURCE:STORE R(SOURCE)
P2:D=DAD(R(SOURCE) AND B)
(DATO+DATOB):DAD=17:MM=01

DOP19 360
ALTER CODES:WORD STORE D
P1:R(DF)=D(WORD):SPS=3
CLKOFF IF OVLAP(1):CLK=0

DOP#9 230
OPERATE UPON B, SOURCE R(SF)
P2:D=DAD(R(SF) AND B)
DAD=14

DOP20 375
NO-OP FOR BUT
P1:NO-OP

DOP10 231
OPERATE UPON B, SOURCE R(SOURCE)
P2:D=DAD(R(SOURCE) AND B)
DAD=14

DOP22 254
ALTER CODE PS(C) D
P1:B=0:SPS=1

DOP21 074
ALTER CODES D
P1:B=0:SPS=3

DOP11 366
DUPLICATE LOWER BYTE:STORE D
P2:D(15:00)=B(07:00):DAD=13
D(07:00)=B(07:00):
DATO:CLKOFF:MM=01
BUT(SERVICE C+FETCH C) BUT 16 016

SERVICE B
(10)
002

FETCH OVLAP
(1)
001

FETCH B
(1)
000

SERVICE C
(10)
017

FETCH C
(1)
016

NOTE:
1. BUT DEFINITIONS:
BUT (SERVICE C+FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.
BUT (SERVICE B+FETCH OVLAP+FETCH B) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH OVLAP OVER A USUAL FETCH REENTRY.
BUT (NOWR+BYTEWR+WORDWR) PROVIDES FOR DIFFERENT REGISTER WRITE OPERATION AS A FUNCTION OF IR DECODING.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN.	DATE	PARTS LIST	
		DATE	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	DATE	DATE	TITLE	
.XXX = .005	±0° 30'	DATE	DATE	FLOW DIAGRAM (PARTDOP, SXT)	
.XX = .02		DATE	DATE		
.X = .1		DATE	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	DATE		
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	
		B-DD-KDII-A		NUMBER	
FINISH		SCALE		REV.	
		SHEET 8 OF 12		B	
		DIST.			

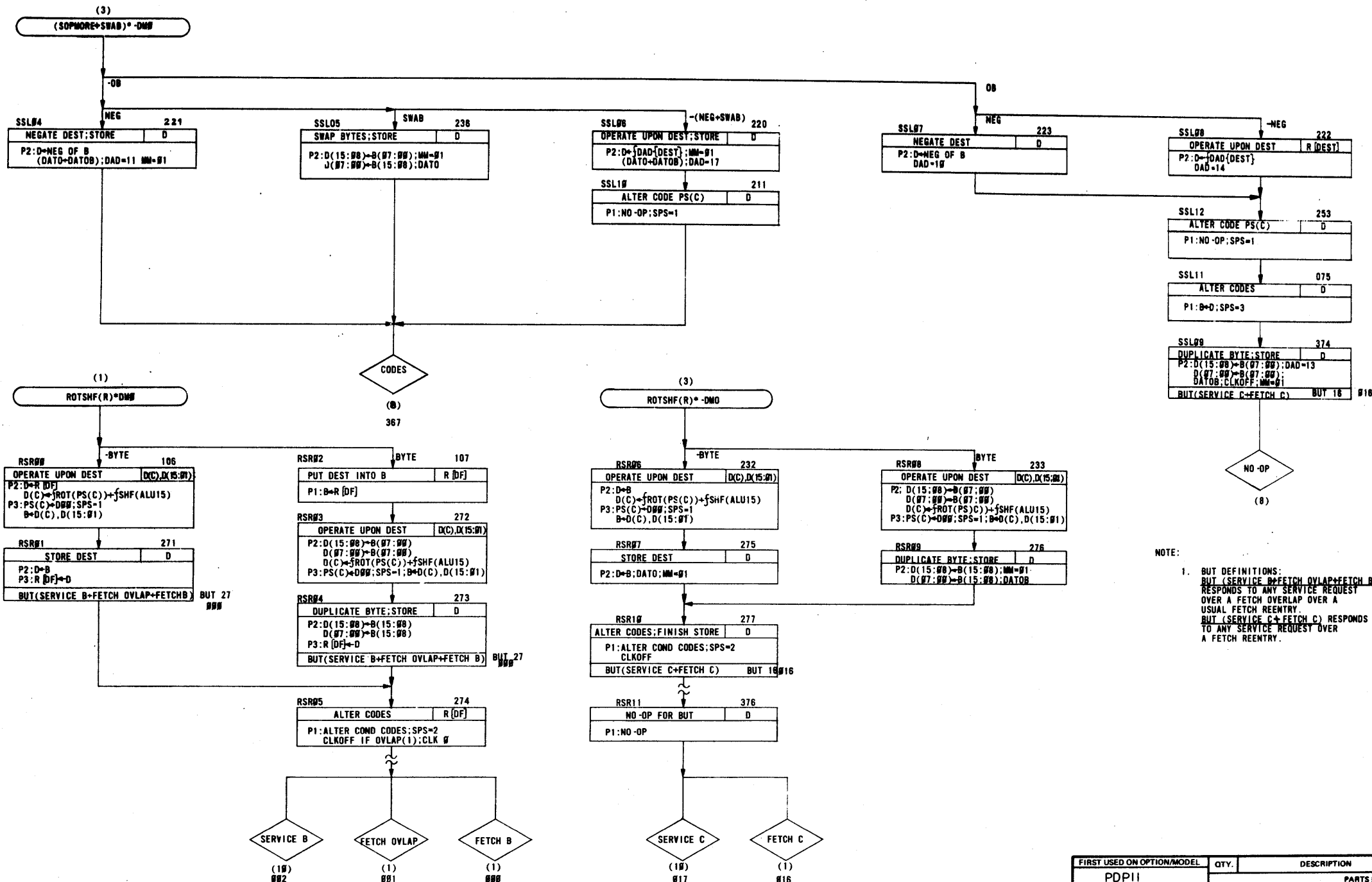
D

C

B

A

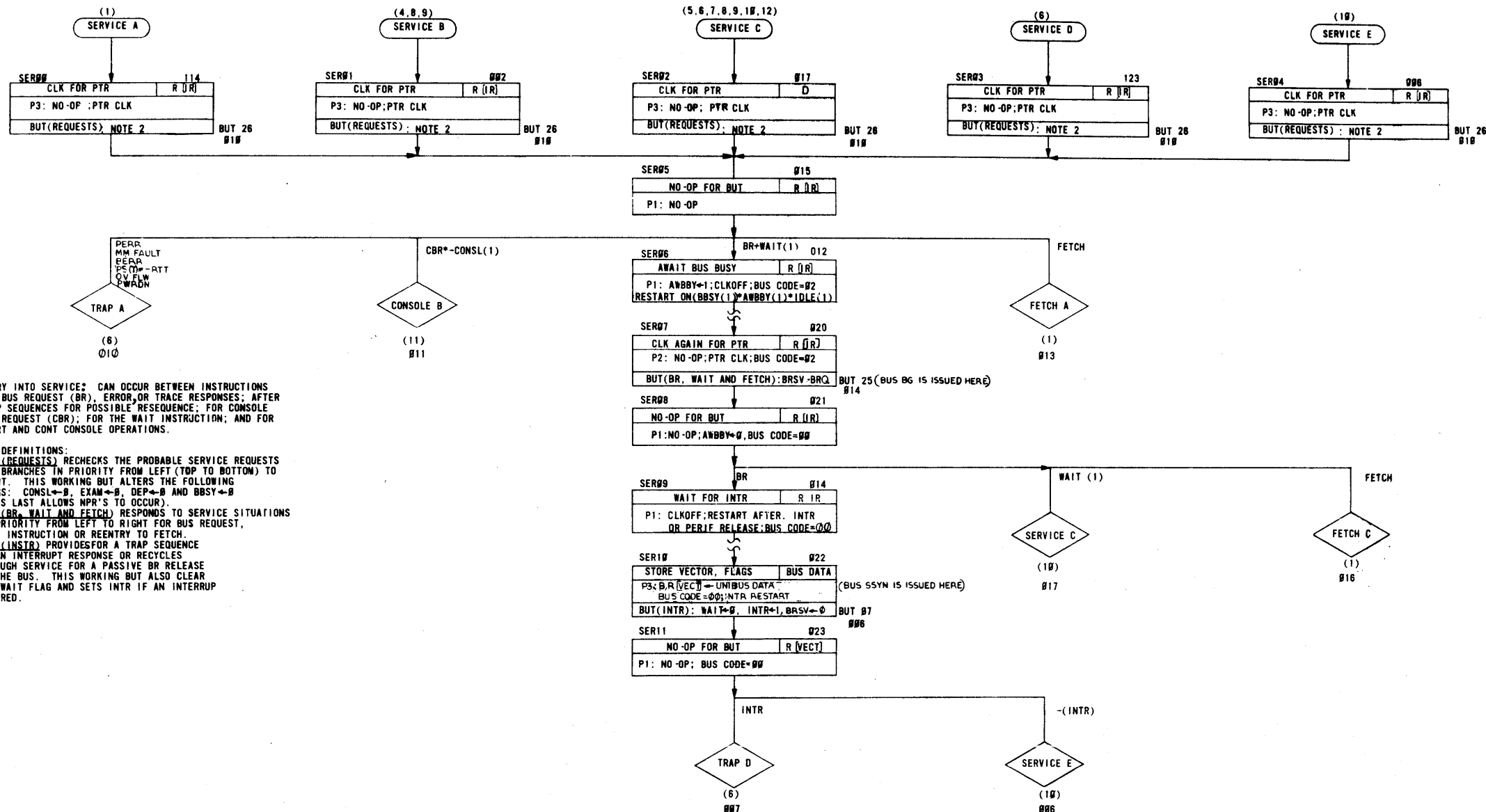
DEC FORM NO
DRD 102-B



NOTE:
1. BUT DEFINITIONS:
BUT (SERVICE B+FETCH OVLAP+FETCH B)
RESPONDS TO ANY SERVICE REQUEST
OVER A FETCH OVLAP OVER A
USUAL FETCH REENTRY.
BUT (SERVICE C+FETCH C) RESPONDS
TO ANY SERVICE REQUEST OVER
A FETCH REENTRY.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	DATE 9-15-72		
.XXX = .005	±0° 30'	DATE 9-25-72		
.XX = .02		DATE 9-27-72		
.X = .1		DATE 1-14-73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.	DATE 1-14-73		
FINISH	B-DD-KDII-A	DATE 1-14-73		
SCALE	D	DATE 1-14-73		
SHEET 9 OF 12	DIST.	DATE 1-14-73		

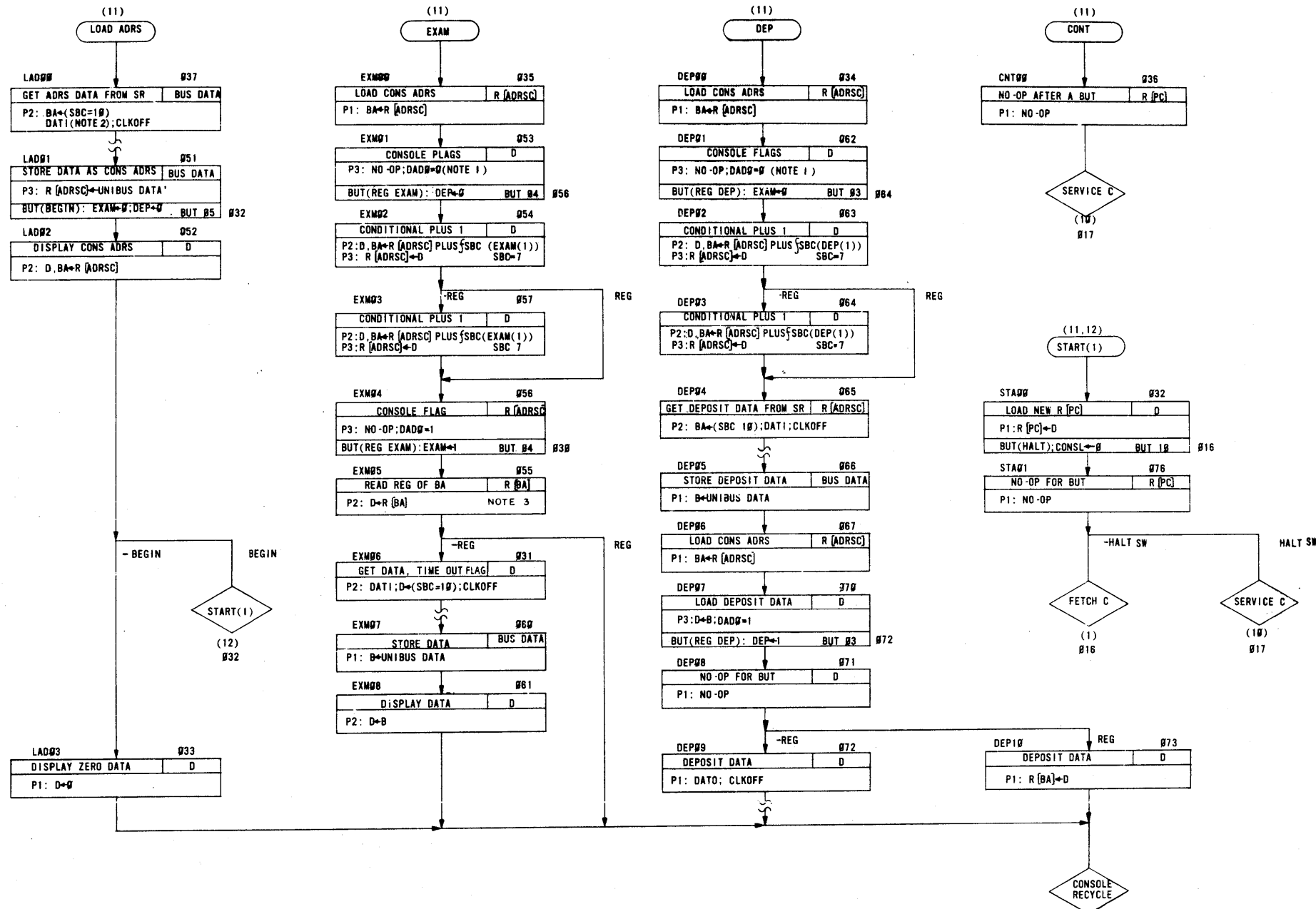
PARTS LIST	
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FLOW DIAGRAM (SOPMORE+SWAB)*-DMO (ROTSHF(R)) (9)	
SIZE CODE D	NUMBER KDII-A-FD
REV. B	



- NOTES:
- ENTRY INTO SERVICE: CAN OCCUR BETWEEN INSTRUCTIONS FOR BUS REQUEST (BR), ERROR OR TRACE RESPONSES; AFTER TRAP SEQUENCES FOR POSSIBLE RESEQUENCE; FOR CONSOLE BUS REQUEST (CBR); FOR THE WAIT INSTRUCTION; AND FOR START AND CONT CONSOLE OPERATIONS.
 - BUT DEFINITIONS:
BUT (REQUESTS) RECHECKS THE PROBABLE SERVICE REQUESTS AND BRANCHES IN PRIORITY FROM LEFT (TOP TO BOTTOM) TO RIGHT. THIS WORKING BUT ALTERS THE FOLLOWING FLAGS: CONSL ← B, EXAM ← B, DEP ← B AND BBSY ← B (THIS LAST ALLOWS NPR'S TO OCCUR).
BUT (BR, WAIT AND FETCH) RESPONDS TO SERVICE SITUATIONS IN PRIORITY FROM LEFT TO RIGHT FOR BUS REQUEST, WAIT INSTRUCTION OR REENTRY TO FETCH.
BUT (INTR) PROVIDES FOR A TRAP SEQUENCE AS AN INTERRUPT RESPONSE OR RECYCLES THROUGH SERVICE FOR A PASSIVE BR RELEASE OF THE BUS. THIS WORKING BUT ALSO CLEAR THE WAIT FLAG AND SETS INTR IF AN INTERRUPT OCCURRED.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
.XXX - .006	± 0° 30'	FLOW DIAGRAM (SERVICE) (10)		
.XX - .02		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
.X - .1		DATE 9-15-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 9-25-72		
MATERIAL		DATE 9-25-72		
NEXT HIGHER ASSY.		DATE 9-25-72		
B-DD-KDII-A		DATE 9-25-72		
SCALE		DATE 9-25-72		
SHEET 10 OF 12		DATE 9-25-72		
DIST.		DATE 9-25-72		
REV.		DATE 9-25-72		
B		DATE 9-25-72		

DEC FORM NO



- NOTES:
- BUT DEFINITIONS.
BUT (BEGIN) IS A WORKING BUT THAT CLEARS THE EXAM AND DEP FLAGS AND REACTS TO A BEGIN SWITCH BY SEQUENCING A START OPERATION.
BUT (REG EXAM) RESPONDES TO REG CONSOLE OPERATION FOR PROPER INCREMENTATION AND DATA DISPLAY. THIS WORKING BUT ALSO ORDERS INCREMENTING FLAGS.
BUT (REG DEP) RESPONDES TO REG CONSOLE OPERATION FOR PROPER INCREMENTATION AND DATA STORAGE. THIS WORKING BUT ALSO ORDERS INCREMENTING FLAGS.
BUT (HALT) SENSES THE HALT SWITCH AND EITHER GOES TO FETCH (ENABLE POSITION) OR THROUGH SERVICE TO CONSOLE (HALT POSITION).
 - PROCESSOR RESPONDES TO SR ADDRESS (PROVIDED BY SBC=10) UNLESS BEGIN SWITCH INPUT IS ACTIVE.
 - REGISTER SELECTION AS A FUNCTION OF BA [03=00].

REV.	CHANGE NO.	CHK

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES:		DRN. <i>[Signature]</i> DATE 7-15-72	PARTS LIST		
TOLERANCES		CHK'D <i>[Signature]</i> DATE 7/25/72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
DECIMALS	ANGLES	ENG. <i>[Signature]</i> DATE 7/25/72	TITLE		
.XXX ± .005	± 0° 30'	PROJ. <i>[Signature]</i> DATE 7/25/72	FLOW DIAGRAM (CONSOLE SWITCHES)		
.XX ± .02		PROD. <i>[Signature]</i> DATE 7/25/72			
.X ± .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.			
MATERIAL		B-DD-KDII-A		SIZE CODE	NUMBER
FINISH		SCALE		D F D	KDII-A-FD
		SHEET 12 OF 12		DIST.	REV. B

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. PUDELKO

CHECKED

SECTION

DATE 9/15/72

DATE

ENG J. F. Dougherty

PROD

ISSUED SECT.

DATE 9/27/72

DATE

ITEM
NO

DWG NO. / PART NO.

DESCRIPTION

1	D-AD-7010230-0-0	WIRED ASSY (KD11-A)
2	D-CS-M7231-0-1	DATA PATHS
3	D-CS-M7232-0-1	U WORD
4	D-CS-M7233-0-1	IR DECODE
5	D-CS-M7234-0-1	TIMING
6	D-CS-M7235-0-1	STATUS
7	D-UA-M981-0-0	INTERNAL UNIBUS ASSY
8	D-MU-KD11-A-MU	MODULE UTILIZATION
9	A-PL-KT11-D-0	MEMORY MANAGEMENT
10	A-PL-KJ11-A-0	STACK LIMIT REGISTER
11	D-UA-KE11-E-0	KE11-E ASSY
12	D-PL-KE11-F-0	KE11-F ASSY
13	A-PL-KW11-L-0	LINE FREQUENCY CLOCK
14	A-PL-KM11-0-0	MAINTENANCE PANEL (W130, W131)
15	A-SS-5509081-0-12	SILK SCREEN (KD11-A)
16	A-SS-5509081-0-13	SILK SCREEN (KT11-D, KE11-E, F)
17	A-PL-KY11-D-0	KY11-D CONSOLE
18	C-CS-M930-0-1	BUS TERMINATOR M930

KD11-A

1

1

1

1

1

1

1

REF

REF

REF

REF

REF

REF

REF

REF

REF

REF

1

QUANTITY VARIATION

TITLE

KD11-A PROCESSOR

ASSY NO.

H

SIZE CODE

A PL

NUMBER

KD11-A-0

REV

A

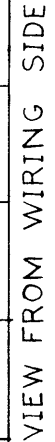
ECO NO

KD11A-0001

SHEET 1 OF 1

DIST C

1. VIEW OF LOGIC PANEL IS FROM WIRING SIDE.
2. WIRED MODULE SLOTS FOR NOTED OPTIONS.
3. THE SMALL PERIPHERAL CONTROLLER SLOT (SLOT 09, SECTIONS C,D,E AND F) MAY CONTAIN A VARIETY OF PDPII OPTIONS. THE OPTION USUALLY CONSIST OF A SINGLE QUAD MODULE BOARD (SECTION C,D,E AND F). IT MAY CONSIST OF A DOUBLE HEIGHT CONTROLLER BOARD (SECTIONS C AND D) WITH A MI05 ADDRESS SELECTOR MODULE (SECTION E) AND A MT821 INTERRUPT CONTROL MODULE (SECTION F).
4. IF NO OPTION IS PRESENT IN THE SMALL PERIPHERAL CONTROLLER SLOT, A G727 GRANT CONTINUITY MODULE MUST BE INSERTED INTO SECTION D.

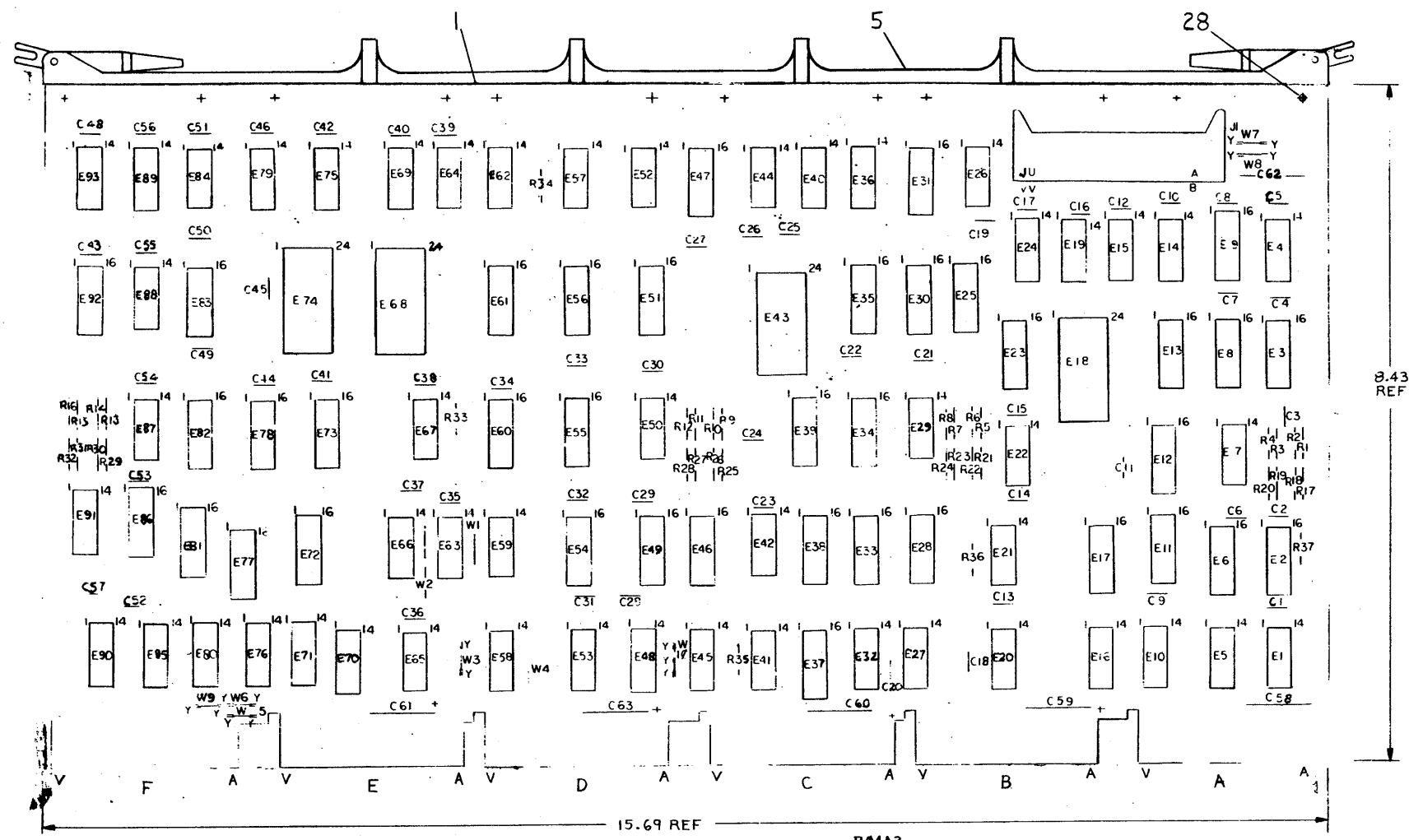


QTY.	DESCRIPTION		PART NO.		ITEM NO.
PARTS LIST					
DR. <i>R. B. Miller</i>	DATE <i>8-72</i>	digital EQUIPMENT CORPORATION MATTHEW MASSACHUSETTS		TITLE MODULE UTILIZATION	
DATE <i>9-28-72</i>					
DATE <i>12-17-72</i>					
DATE <i>12-17-72</i>					
DATE <i>9-27-72</i>					
NEXT HIGHER ASSY A-PL-KDII-A-0		SUPP CODE DMU		NUMBER KDII-A-MU	REV. A
SCALE NONE		DWT.			
SHEET 1 OF 1					

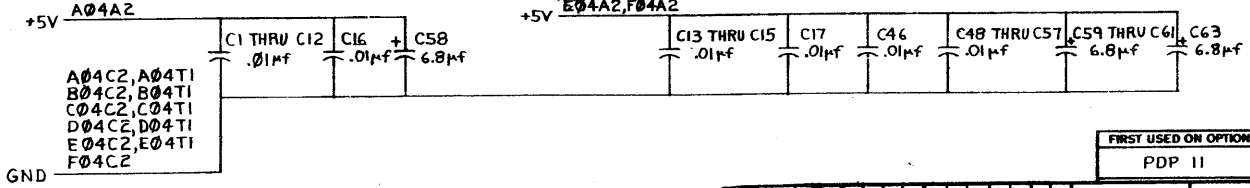
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part without the written permission of Digital Equipment Corporation.

NOTES:

- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE KDII-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.
- PROCESSOR SIGNAL PREFIX NOTATION (K2-1 FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
- UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARRADS.



DEC	74157	8	16
DEC	3101A	8	16
DEC	74174	8	16
DEC	74182	8	16
DEC	74181	12	24
DEC	74153	8	16
DEC	8640	1	8
IC TYPE	GND	+5V	
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.			
IC PIN LOCATIONS			



AR		INSULATED JUMPER	9009185	30
15		SPLIT LUG	9006735	29
12		EYELET	9006732	28
4	E6, E28, E49, E81	IC DEC 74157	1910655	27
4	E3, E25, E47, E92	IC DEC 3101A	1910653	26
12	E2, E8, E9, E30, E31, E33, E46, E54, E56, E73, E77, E86	IC DEC 74174	1910652	25
1	E39	IC DEC 74182	1910019	24
4	E18, E43, E68, E74	IC DEC 74181	1909982	23
17	E11, E12, E13, E17, E23, E34, E35, E37, E38, E51, E55, E60, E61, E72, E78, E82, E83	IC DEC 74153	1909937	22
4	E7, E29, E50, E87	IC DEC 74H04	1909931	21
9	E16, E24, E53, E58, E59, E63, E67, E70, E75	IC DEC 8815	1909713	20
3	E41, E69, E79	IC DEC 8242	1909712	19
13	E1, E10, E15, E19, E32, E40, E44, E45, E57, E64, E88, E89, E91	IC DEC 8881	1909705	18
1	E21	IC DEC 74H74	1909667	17
8	E4, E14, E26, E36, E52, E62, E84, E93	IC DEC 8640	1911469	16
1	E5	IC DEC 74H11	1909267	15
1	E71	IC DEC 74H60	1909064	14
4	E80, E85, E90, E76	IC DEC 74H53	1909062	13
1	E20	IC DEC 74H30	1909059	12
2	E27, E66	IC DEC 74H10	1909057	11
2	E22, E65	IC DEC 74H00	1909056	10
2	E42, E48	IC DEC 74H20	1905635	9
16	R17 THRU R32	RES 620 1/4W ±5%	1303178	8
16	R1 THRU R16	RES 300 1/4W ±5%	1301425	7
5	R33, R34, R35, R36, R37	RES 1K 1/4W ±5%	1300365	6
1		HANDLE MODULE	1210711-02	5
1	J1	CONN 40 PIN	1209941	4
6	C58 THRU C63	CAP 6.8µf 35V ±10% TANT	1005306	3
56	C1 THRU C46, C48 THRU C57	CAP .01µf 100V ±20% DISC	1001610	2
1		ETCHED CIRCUIT BOARD	5009980	1
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL				PARTS LIST			
PDP 11				ETCH BOARD REV D			
REVISIONS				TITLE			
CHK	CHANGE NO.	REV	DATE	DATA PATHS			
				KI-1			
DEC NO.				EIA NO.			
SEMICONDUCTOR CONVERSION CHART				SCALE			
				SHEET 1 OF 9			
				DIST.			
				DATE			
				TIME			
				NEXT HIGHER ASSY			
				KDII-A			
				SIZE CODE			
				NUMBER			
				REV			
				DICS M7231-0-1			
				REV 0			

This drawing and specification, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part, nor the facts for the construction or sale of items without written permission.

D

C

B

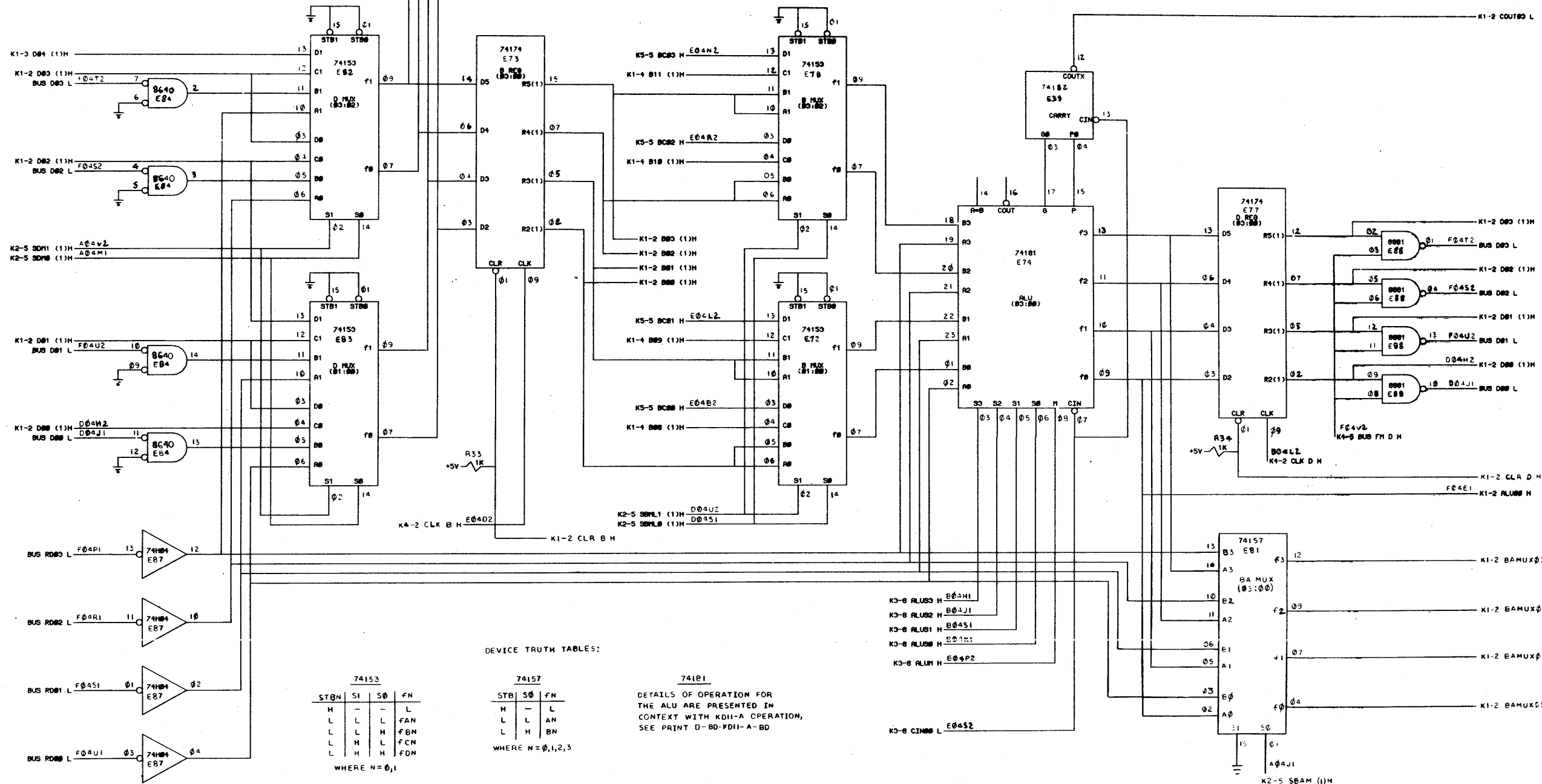
A

D

C

B

A



DEVICE TRUTH TABLES:

74153			
STB	S1	S0	FN
H	-	-	L
L	L	L	FAN
L	L	H	FBN
L	H	L	FCN
L	H	H	FDN

WHERE N=0,1

74157		
STB	S0	FN
H	-	L
L	L	AN
L	H	BN

WHERE N=0,1,2,3

74181
DETAILS OF OPERATION FOR THE ALU ARE PRESENTED IN CONTEXT WITH KDI-A OPERATION, SEE PRINT D-BD-PDI-A-BD

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		DATE: 7-3-72 BY: [Signature] 7/3/72		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± .005		TITLE DATA PATHS		K1-2	
MATERIAL FIRST USED ON POP11		DATE: 7/3/72 BY: [Signature] 7/3/72		NUMBER N7231-0-1	
SHEET 2 OF 5		SCALE 1" = 1"		D C B D	

This drawing and associated legends are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part on the basis for the manufacture of any of these units without permission.

DC4F2 K1-3 D0407 H
DC4M1 K1-3 D0408 H
DC4C1 K1-3 D0409 H
DC4F1 K1-3 D0410 H

D

C

B

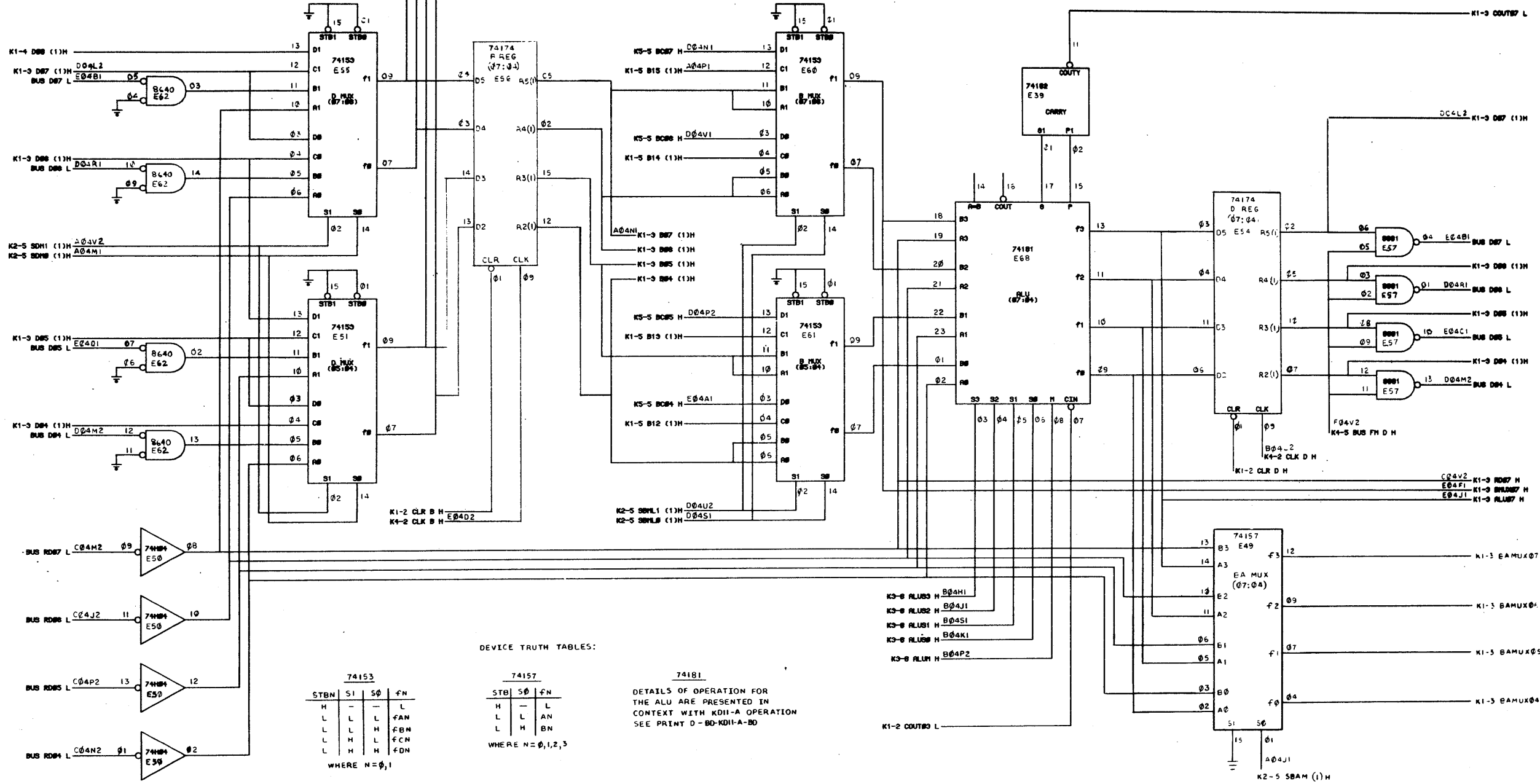
A

D

C

B

A



DEVICE TRUTH TABLES:

74153

STBN	S1	S0	FN
H	-	-	L
L	L	L	FN
L	L	H	FN
L	H	L	FN
L	H	H	FN

WHERE N = 0, 1

74157

STB	S0	FN
H	-	L
L	L	AN
L	H	BN

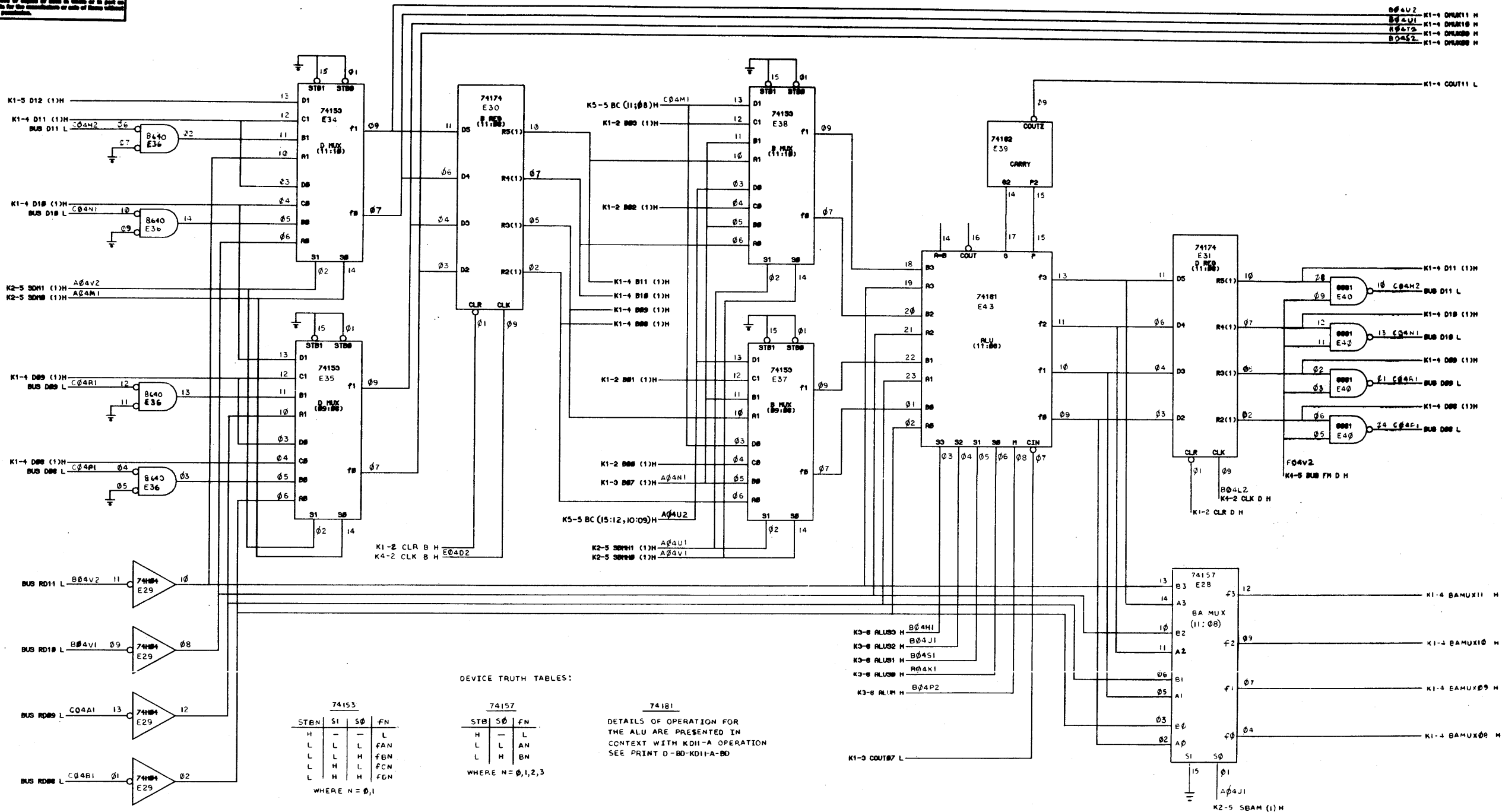
WHERE N = 0, 1, 2, 3

74181

DETAILS OF OPERATION FOR THE ALU ARE PRESENTED IN CONTEXT WITH K011-A-BD SEE PRINT D-BD-K011-A-BD

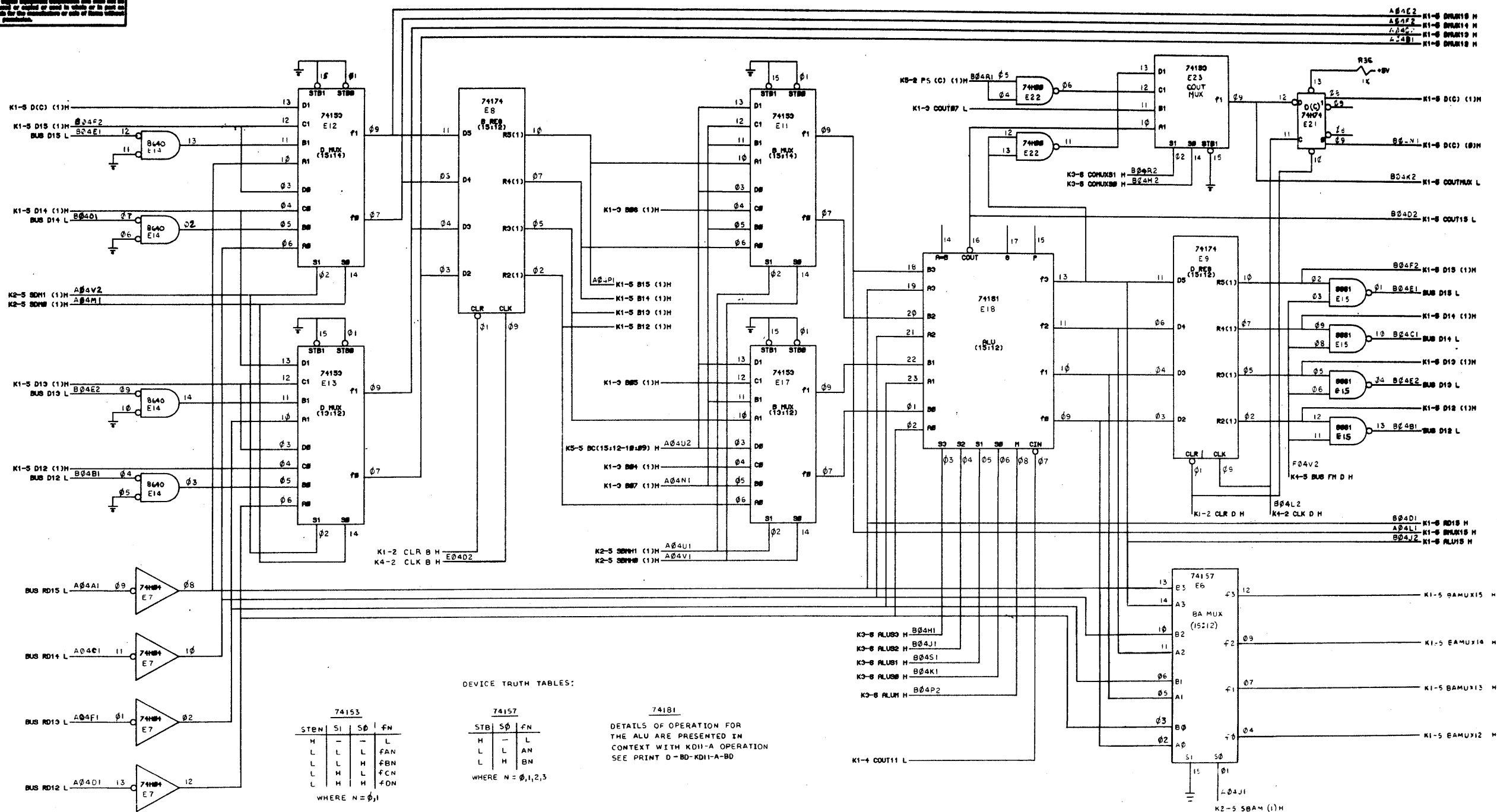
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ±.005 ±.005 ±.005 FINEST CUTTING QUALITY SURFACE FINISH AND OTHER GROUP SPECIFICATIONS	DATE 7-31-72 BY [Signature] CHECKED [Signature] DATE 7/31/72 DESIGNED [Signature] DATE 7/31/72 DRAWN [Signature] DATE 7/31/72	EQUIPMENT CORPORATION 10221-0-1
	TITLE DATA PATHS DATA PATHS (07:04) K1-3	
	FIRST USED ON PDP-11	
	SCALE SHEET 3 OF 5	

This drawing and construction, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part, nor the contents thereof, for the purpose of any other project without permission.



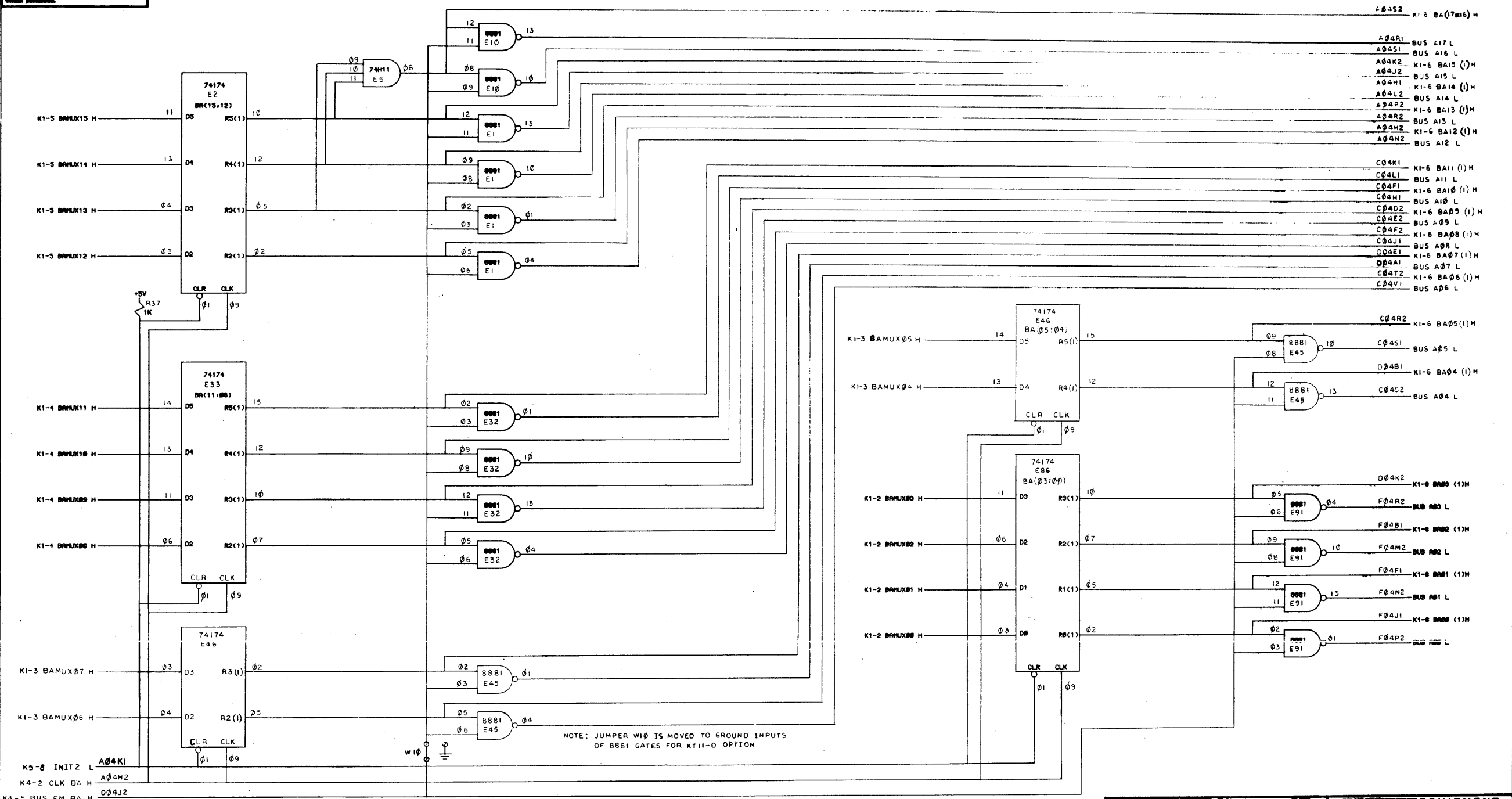
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		DATE 7-27-72		EQUIPMENT CORPORATION BARTON, MASSACHUSETTS	
TOLERANCES FRACTIONS DECIMALS ANGLES ± .005 ± .004 ± .005 ± .005		7/27/72		TITLE	
PAPER QUALITY GRADE 80 AND FINE COPY REQUIRED		7/27/72		DATA PATHS	
NATURAL		7/27/72		DATA PATHS (11:00) K1-4	
PRINT USED ON POP11		7/27/72		D C D	
SCALE 1" = 1"		7/27/72		10201-0-1	
SHEET 1 OF 5		7/27/72		D	

This drawing and specifications, herein, are the property of Hughes Aircraft Company and shall not be reproduced or used in whole or in part on any basis for the manufacture or sale of items without written permission.



UNLESS OTHERWISE SPECIFIED		DATE	1-25-72
DIMENSIONS IN INCHES		DATE	7/3/72
TOLERANCES		DATE	7/3/72
DECIMALS FRACTIONS ANGLES		DATE	7/3/72
± .005 ± .004 ± .020		DATE	7/3/72
FURNISH SURFACE QUALITY		DATE	7/3/72
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	7/3/72
MATERIAL		DATE	7/3/72
FINISH		DATE	7/3/72
FIRST USED ON		DATE	7/3/72
PDP11		DATE	7/3/72
SCALE		DATE	7/3/72
SHEET 5 OF 9		DATE	7/3/72
TITLE		DATE	7/3/72
DATA PATHS		DATE	7/3/72
DATA PATHS (15:12)		DATE	7/3/72
K1-5		DATE	7/3/72
EQUIPMENT CORPORATION		DATE	7/3/72
BOSTON, MASSACHUSETTS		DATE	7/3/72
SIZE CODE		DATE	7/3/72
NUMBER		DATE	7/3/72
10231-5-1		DATE	7/3/72
D		DATE	7/3/72
D		DATE	7/3/72

This drawing and specification herein are the property of Hughes Aircraft Company and shall not be reproduced or copied or used in whole or in part without the written permission of Hughes Aircraft Company.

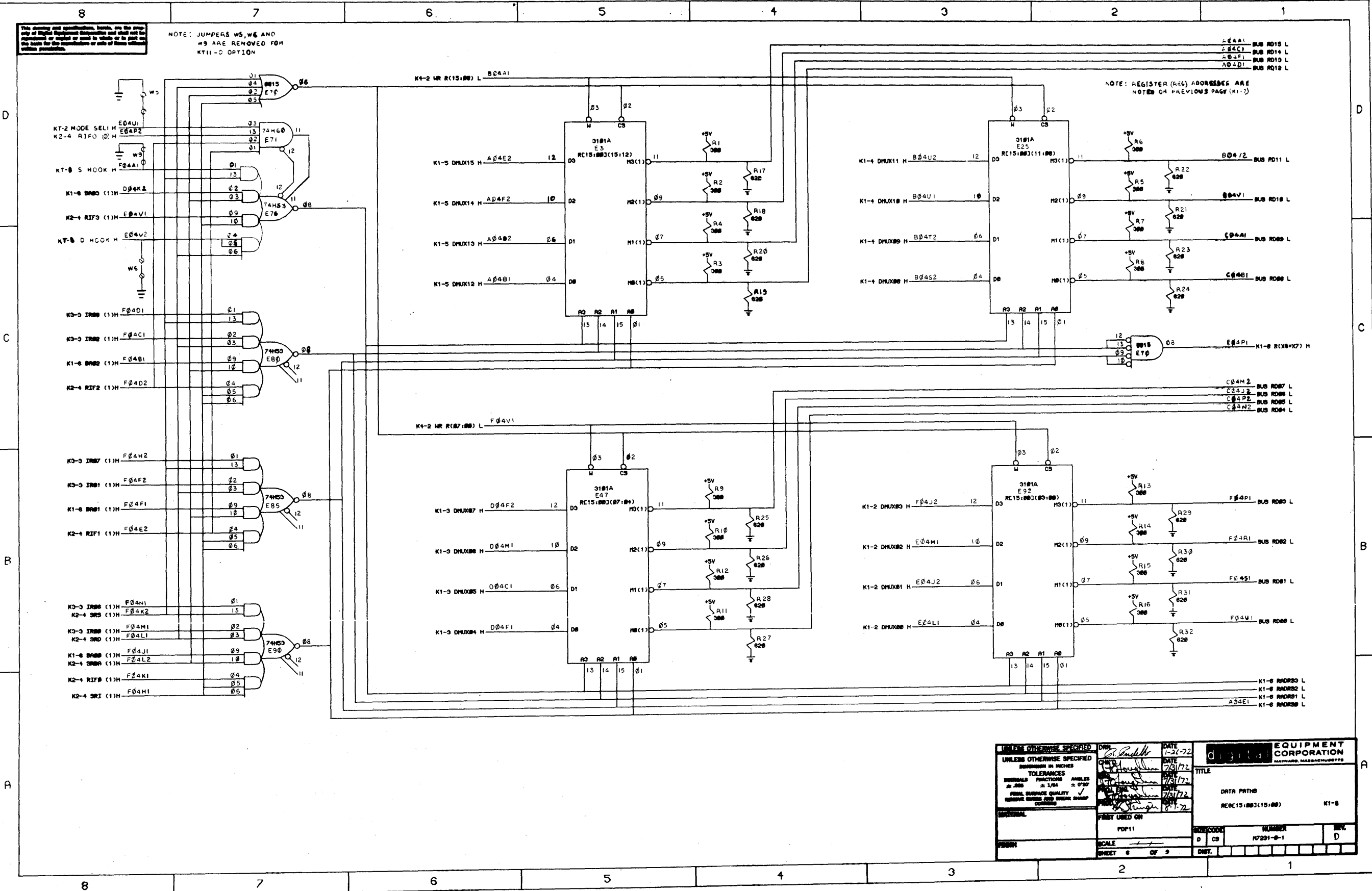


UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ±.005 ±.001 ±.001 ±.001 FRACTIONS DECIMALS ANGLES ±.005 ±.001 ±.001 ±.001 FRACTIONS DECIMALS ANGLES ±.005 ±.001 ±.001 ±.001		DATE 2-10-72 DATE 7/31/72 DATE 7/31/72 DATE 7/31/72	EQUIPMENT CORPORATION MILWAUKEE, WISCONSIN 53211	
TITLE DATA PATHS BA (15:00)		K1-8		
PRINTED ON POP11		SCALE 1/8" = 1"		
SHEET 8 OF 9		DWT.		

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 for any purpose other than that for which it was prepared without permission.

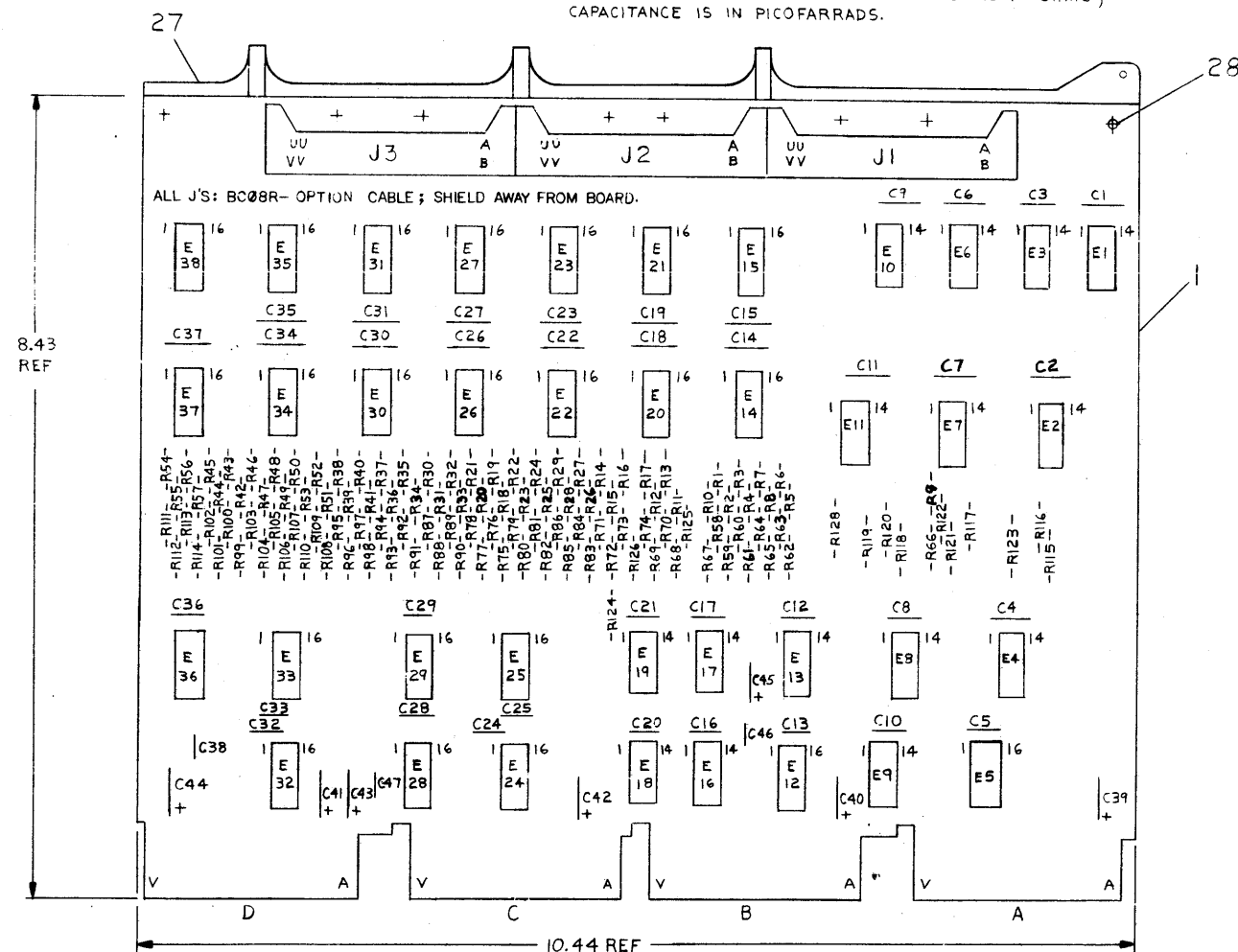
NOTE: JUMPERS W5, W6 AND W9 ARE REMOVED FOR KTH-D OPTION

NOTE: REGISTER (REG) ADDRESSES ARE NOTED ON PREVIOUS PAGE (K1-7)



UNLESS OTHERWISE SPECIFIED		DATE	7-26-72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DIMENSIONS IN INCHES		DATE	7/26/72	
TOLERANCES		DATE	7/26/72	TITLE DATA PATHS
DECIMALS FRACTIONS ANGLES		DATE	7/26/72	
± .005 ± 1/64 ± 0°30'		DATE	7/26/72	REV. D
FINISH SURFACE QUALITY		DATE	7/26/72	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	7/26/72	REVISIONS K1-8
MATERIAL		DATE	7/26/72	
FIRST USED ON		DATE	7/26/72	REVISIONS K1-8
PART NUMBER		DATE	7/26/72	
SCALE		DATE	7/26/72	REVISIONS K1-8
SHEET 8 OF 9		DATE	7/26/72	

3. PROCESSOR SIGNAL PREFIX NOTATION (K2-1 FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
4. UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS ; CAPACITANCE IS IN PICOFARRADS.



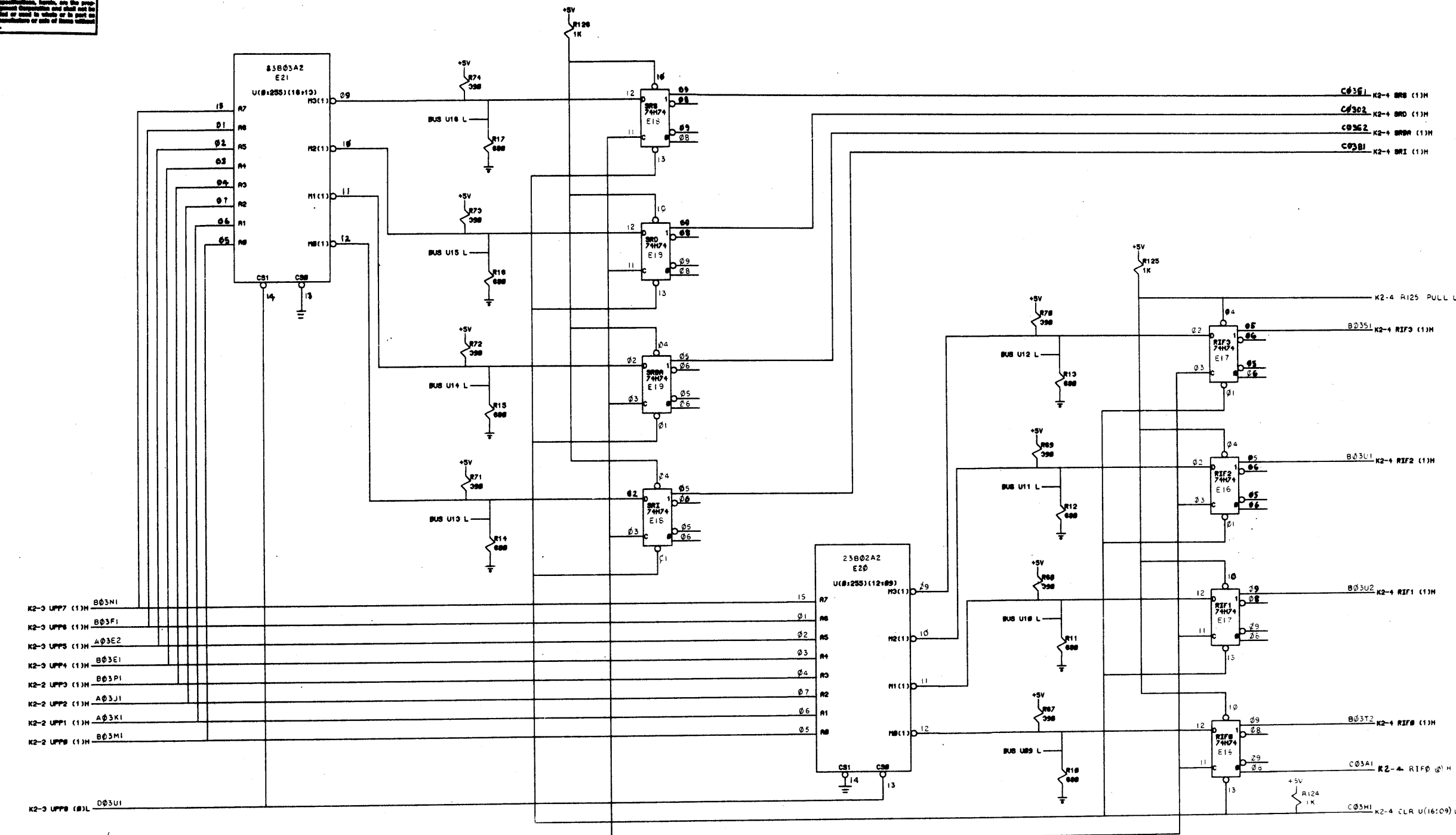
		EYELET HANDLE	9006732	28
			7409871	27
1	E38	I.C. DEC 23B40A2	23B40A2	26
1	E34	I.C. DEC 23B12A2	23B12A2	25
1	E35	I.C. DEC 23B11A2	23B11A2	24
1	E37	I.C. DEC 23B10A2	23B10A2	23
1	E31	I.C. DEC 23B35A2	23B35A2	22
1	E30	I.C. DEC 23B08A2	23B08A2	21
1	E27	I.C. DEC 23B07A2	23B07A2	20
1	E22	I.C. DEC 23B06A2	23B06A2	19
1	E23	I.C. DEC 23B42A2	23B42A2	18
1	E26	I.C. DEC 23B41A2	23B41A2	17
1	E21	I.C. DEC 23B03A2	23B03A2	16
1	E20	I.C. DEC 23B02A2	23B02A2	15
1	E14	I.C. DEC 23B01A2	23B01A2	14
1	E15	I.C. DEC 23B00A2	23B00A2	13
1	E36	I.C. DEC 74175	1910651	12
8	E5, E12, E24, E25, E28 E29, E32, E33	I.C. DEC 74174	1910652	11
3	E4, E8, E13	I.C. DEC 74H04	1909931	10
9	E1, E3, E6, E9, E10, E18 E19, E16, E17	I.C. DEC 74H74	1909667	9
3	E2, E7, E11	I.C. DEC 74H10	1909057	8

13	R115 THRU R126,R128	RES. 1K 1/4W $\pm 5\%$	1300365	7
57	R1 THRU R57	RES. 680 1/4W $\pm 5\%$	1301424	6
57	R58 THRU R114	RES. 390 1/4W $\pm 5\%$	1300309	5
3	J1,J2,J3	CONN. 40 PIN	1209941	4
7	C39 THRU C45	CAP. 6.8 μ F 35V $\pm 10\%$ TANT	1005306	3
40	C1 THRU C38,C46,C47	CAP. 0.01 μ F 100V $\pm 20\%$ DISC	1001610	2
1	ETCHED CIRCUIT BOARD		5009981	1

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV	E			
DRN	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHKD	DATE	TITLE U WORD K2-1		
ENG	DATE			
PROB ENG	DATE			
PROD	DATE			
NEXT HIGHER ASSY				
DEC NO.	EIA NO.	KDII-A	SIZE CODE	NUMBER
CONVERSION CHART		SCALE	D CS	M7232-0-1
SHEET	OF	12	DIST.	REV.
				F

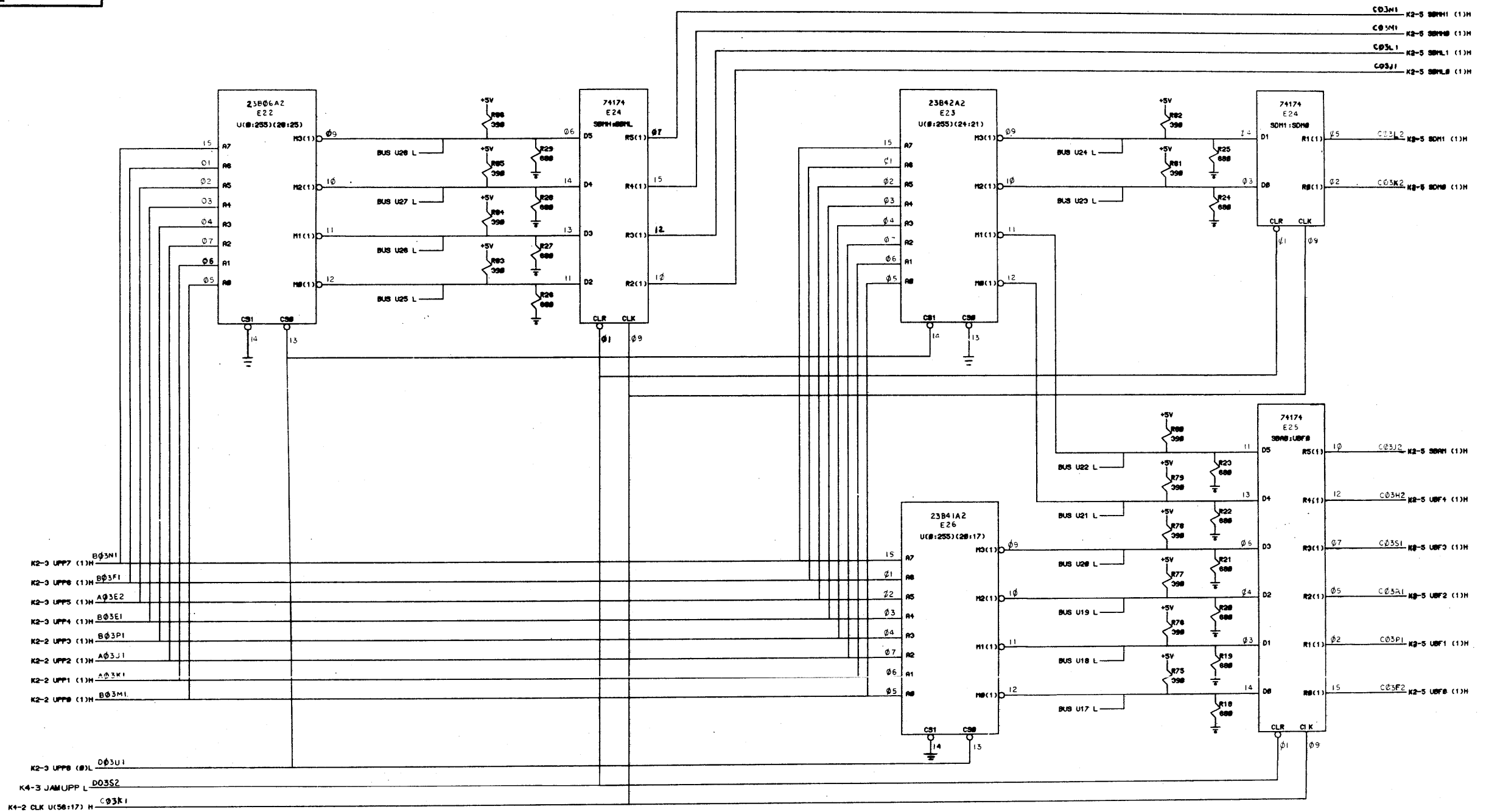
23B00A2 THRU	23B13A2	8	16
DEC 74174		8	16
DEC 74175		8	16
IC TYPE	GND	+ 5V	
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE			
IC PIN LOCATIONS			

This drawing and specifications, herein, are the property of Hughes Aircraft Company and shall not be reproduced or copied in whole or in part for the benefit of the manufacturer or user of items without written permission.



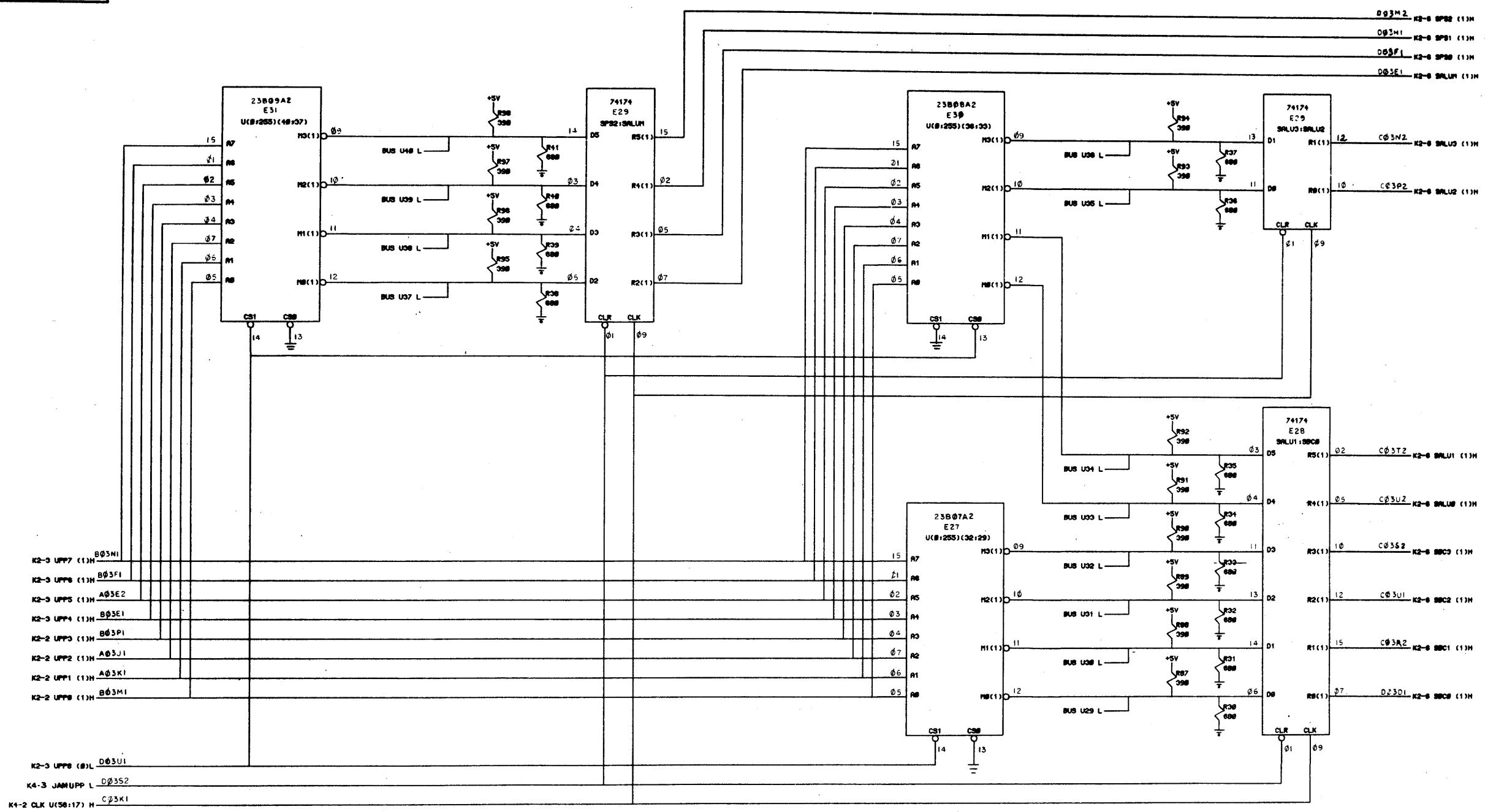
UNLESS OTHERWISE SPECIFIED		DATE	2-2-72
DIMENSIONS IN INCHES		DATE	2/1/72
TOLERANCES		DATE	2/1/72
DECIMALS FRACTIONS		DATE	2/1/72
± .005 ± .004		DATE	2/1/72
FINAL SURFACE QUALITY		DATE	2/1/72
RESERVE DIMS AND BREAK DIMS		DATE	2/1/72
MATERIAL		DATE	2/1/72
FINISH		DATE	2/1/72
FIRST USED ON		DATE	2/1/72
PDP11		DATE	2/1/72
SCALE		DATE	2/1/72
SHEET 4 OF 12		DATE	2/1/72
DIST.		DATE	2/1/72
EQUIPMENT CORPORATION		DATE	2/1/72
TITLE		DATE	2/1/72
U WORD		DATE	2/1/72
U(10:09)		DATE	2/1/72
K2-4		DATE	2/1/72
D C S		DATE	2/1/72
H0320-0-1		DATE	2/1/72
F		DATE	2/1/72

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 for any purpose other than the manufacture or sale of items without written permission.



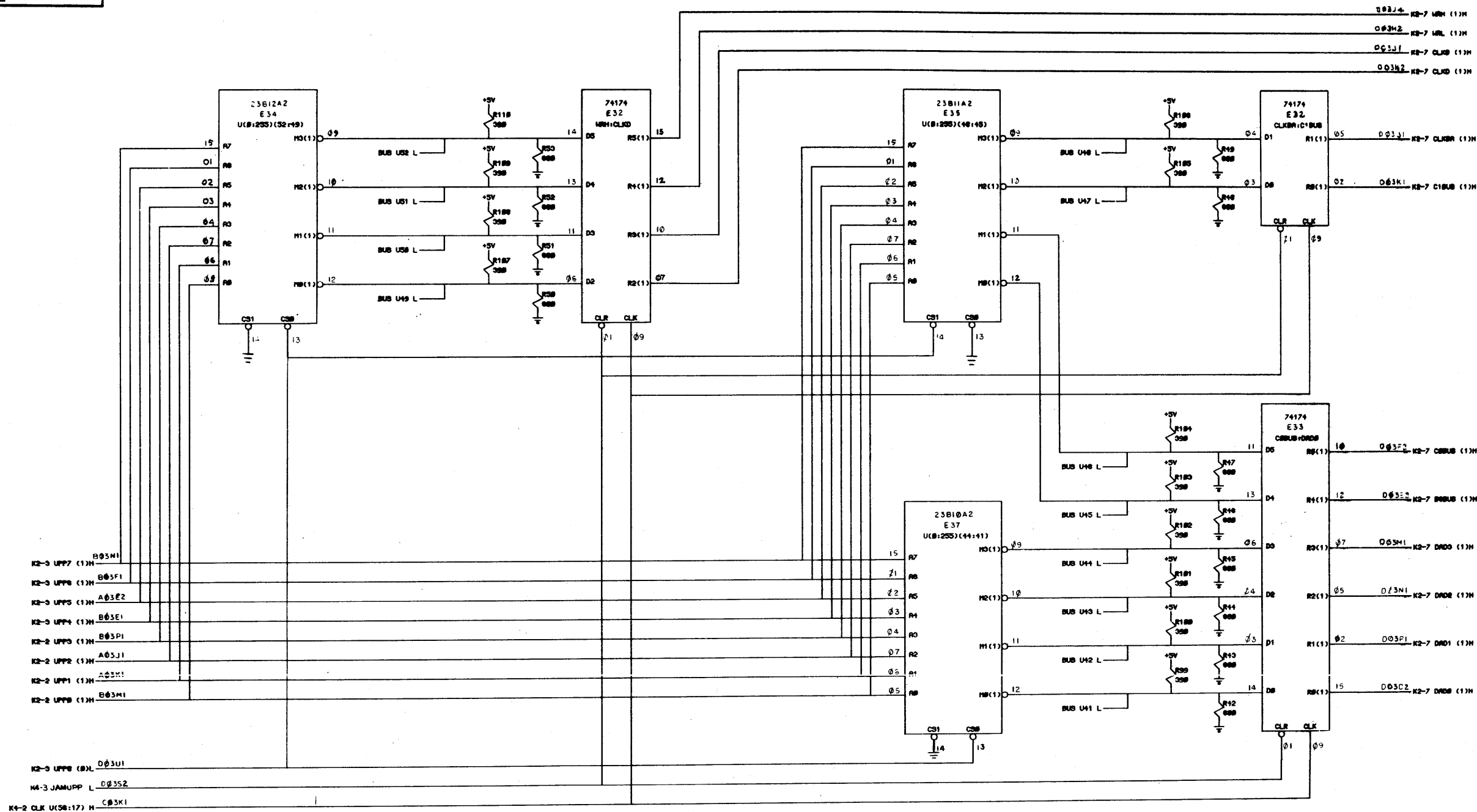
UNLESS OTHERWISE SPECIFIED		DATE	1-28-72
UNLESS OTHERWISE SPECIFIED		DATE	1-28-72
DIMENSIONS IN INCHES		DATE	1-28-72
TOLERANCES		DATE	1-28-72
DECIMALS	FRACTIONS	ANALOG	DATE
± .005	± 1/64	± 0.00	DATE
FINAL SURFACE QUALITY		DATE	DATE
REMOVE BURRS AND BREAK SHARP		DATE	DATE
CORNER		DATE	DATE
MATERIAL		DATE	DATE
FIRST USED ON		DATE	DATE
POP11		DATE	DATE
SCALE		DATE	DATE
SHEET 5 OF 12		DATE	DATE
DIST.		DATE	DATE
TITLE		DATE	DATE
U WORD		DATE	DATE
U(20:17)		DATE	DATE
K2-5		DATE	DATE
SIZE CODE		DATE	DATE
NUMBER		DATE	DATE
17232-9-1		DATE	DATE
REV		DATE	DATE
F		DATE	DATE

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, nor the basis for the manufacture or sale of items without written permission.



UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
DIMENSIONS IN INCHES		2-24-72	HAYWARD, MASSACHUSETTS	
TOLERANCES		DATE	TITLE	
DECIMALS FRACTIONS ANGLES		12/6/72	U MORD	
± .003 ± .004 ± .020		DATE	U(48:25)	
FINAL SURFACE QUALITY		12/30/72	K2-8	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	REV.	
MATERIAL		DATE	F	
FIRST USED ON		DATE	NUMBER	
POP11		DATE	10222-0-1	
SCALE		DATE	SHEET	
SHEET 6 OF 12		DATE	DWT.	

The drawing and specifications herein are the property of the U.S. Government and are not to be distributed, copied, or used in any way without the express written permission of the U.S. Government.



UNLESS OTHERWISE SPECIFIED		DATE 1-29-72		EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		DATE 2/1/72		TITLE	
DIMENSIONS IN INCHES		DATE 2/1/72		U 1000	
TOLERANCES		DATE 2/1/72		U (32:41)	
DECIMALS FRACTIONS ANGLES		DATE 2/1/72		K2-7	
±.005 ±.004 ±.002		DATE 2/1/72			
FURNISH SURFACE QUALITY		DATE 2/1/72			
REMOVE BURRS AND CHAMFER EDGES		DATE 2/1/72			
MATERIAL		DATE 2/1/72			
FIRST USED ON		DATE 2/1/72			
PDP-11		DATE 2/1/72			
SCALE		DATE 2/1/72			
SHEET 7 OF 12		DATE 2/1/72			

UNLESS OTHERWISE SPECIFIED		DATE 3-10-72		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DATE 7/26/72			
TOLERANCES		DATE 7/26/72		TITLE U WORD U(56153) & CONNECTORS K2-8	
DECIMALS FRACTIONS ANGLES ± .000 ± 1/64 ± 90°		DATE 7/26/72			
PANEL SURFACE QUALITY REWORK SURFACES AND BEZEL SHARP CORNERS		DATE 6/29/72			
MATERIAL		FIRST USED ON POP11		REV. F	
FINISH		SCALE SHEET 8 OF 12		SIZE CODE D CS	
		DIST.		NUMBER N7238-B-1	



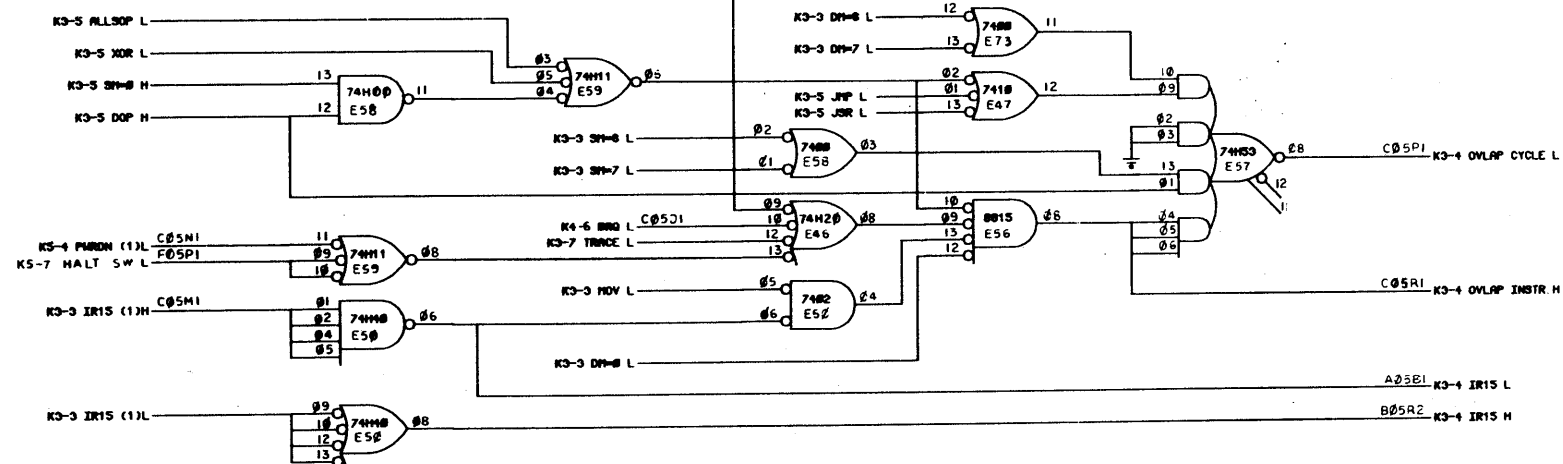
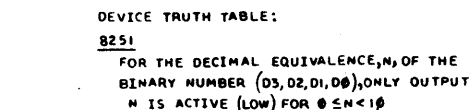
DEVICE TRUTH TABLE:

8251

FOR THE DECIMAL EQUIVALENCE, N, OF THE BINARY NUMBER (D3,D2,D1,D0), ONLY OUTPUT FN IS ACTIVE (LOW) FOR $0 \leq N < 10$

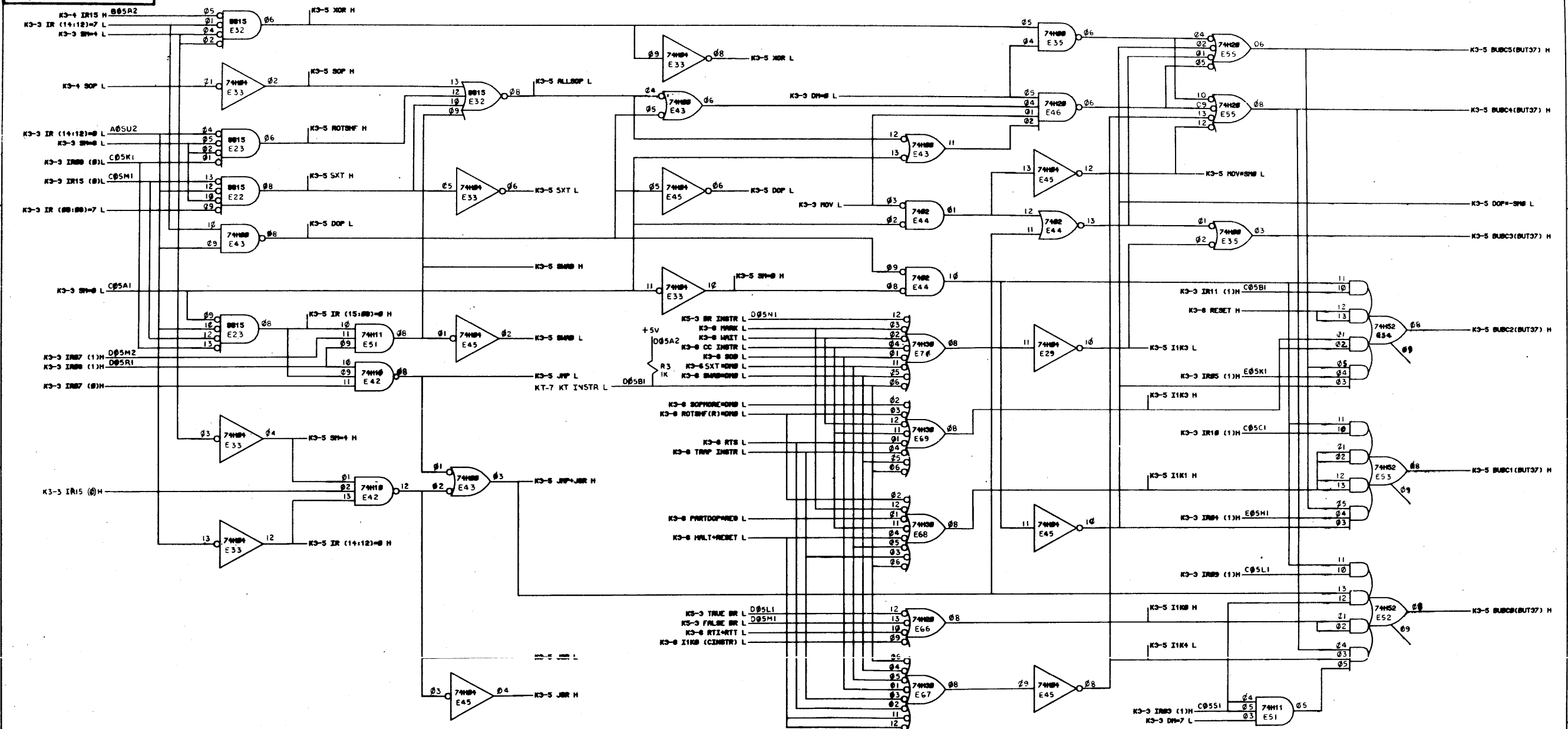
UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		2-2-72	MAYNARD, MASSACHUSETTS	
DIMENSIONS IN INCHES		DATE	TITLE	
TOLERANCES		12/2/72		
DECIMALS FRACTIONS ANGLES		DATE		
± .001 ± 1/64 ± 90°		12/2/72		
FUEL SURFACE QUALITY		DATE	IR DECODE IR & DECODE K3-3	
SURFACE FINISH AND GRAIN DIRECTION		12/2/72		
DRAWN BY		DATE		
CHECKED BY		12/2/72		
FIRST USED ON		PDP11		
SCALE		D CODE NUMBER REV		
SHEET 3 OF 5		M7235-0-1 E		
DST.				

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS INCHES $\pm .005 \pm .001 \pm .005$ FINE, SURFACE QUALITY DIMENSIONS AND OTHER GROUP SPECIFICATIONS		DATE 2-2-72 CHECKED <i>R. B. Smith</i> DATE 1/27/72 DESIGNED <i>R. B. Smith</i> DATE 1/27/72 DRAWN <i>R. B. Smith</i> DATE 1/27/72 FIRST USED ON PDP11		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE IR DECODE IRO & OVLAP K3-4	
MATERIAL		SCALE 1" = 1"		PART NUMBER M7253-0-1 D CS SHEET 4 OF 9 UNIT	

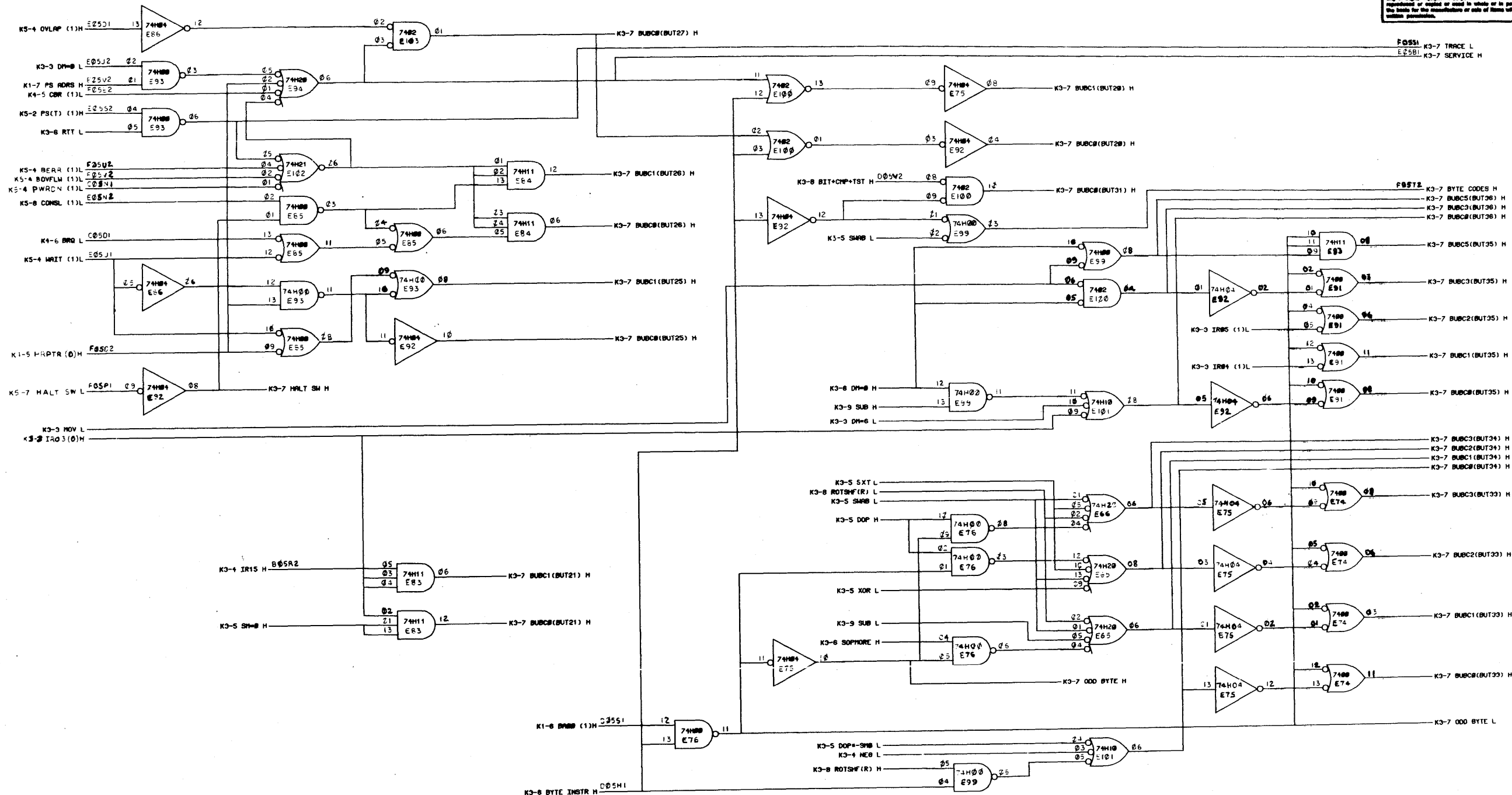
This drawing and specifications, taken as the property of Equipment Corporation and shall not be reproduced or copied in whole or in part, nor the contents thereof, for the manufacture or sale of items without written permission.



PRODUCED BY THE AUTOMATED DRAFTING SYSTEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS HOLE POSITION HOLE SIZE HOLE LOCATION HOLE DIA. HOLE LENGTH HOLE TAPER HOLE CHAMFER HOLE RADIUS HOLE SQUARENESS HOLE CIRCULARITY HOLE SURFACE FINISH HOLE THREADS HOLE COATING HOLE TREATMENT HOLE MARKING HOLE IDENTIFICATION HOLE RECORDING HOLE ARCHIVING HOLE SECURITY HOLE ACCESS HOLE CONTROL HOLE MONITORING HOLE MAINTENANCE HOLE REPAIR HOLE REPLACEMENT HOLE DISPOSAL HOLE DESTRUCTION HOLE RECONSTRUCTION HOLE REPAIR HOLE REPLACEMENT HOLE DISPOSAL HOLE DESTRUCTION HOLE RECONSTRUCTION	DATE 2-2-72 BY R. R. R. R. CHECKED J. J. J. J. APPROVED J. J. J. J. TITLE IR RECORD SUBC (INSTR 1) K3-5 M7233-0-1 E
---	--

This drawing and specifications, hereinafter, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part on any basis for the manufacture or sale of items without written permission.



UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DECIMAL FRACTIONS ANGLES
± .005 ± .001 ± .001
FRACTIONAL QUALITY
REMOVE BURRS AND ROUNDS SHARP
CORNERS

DATE 2-2-72
CHECKED [Signature]
DATE 2/27/72
DRAWN [Signature]
DATE 2/27/72
REVISOR [Signature]
DATE 2/27/72
FIRST USED ON PDP11
SCALE 1" = 1"

PRODUCED BY THE AUTOMATED DRAWING SYSTEM

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
IR DECODE
BUBC (OTHER) K3-7

SIZE CODE NUMBER REV.
D CS 47233-0-1 E

SHEET 7 OF 9

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part or the basis for the manufacture or sale of items without written permission.

D

C

B

A

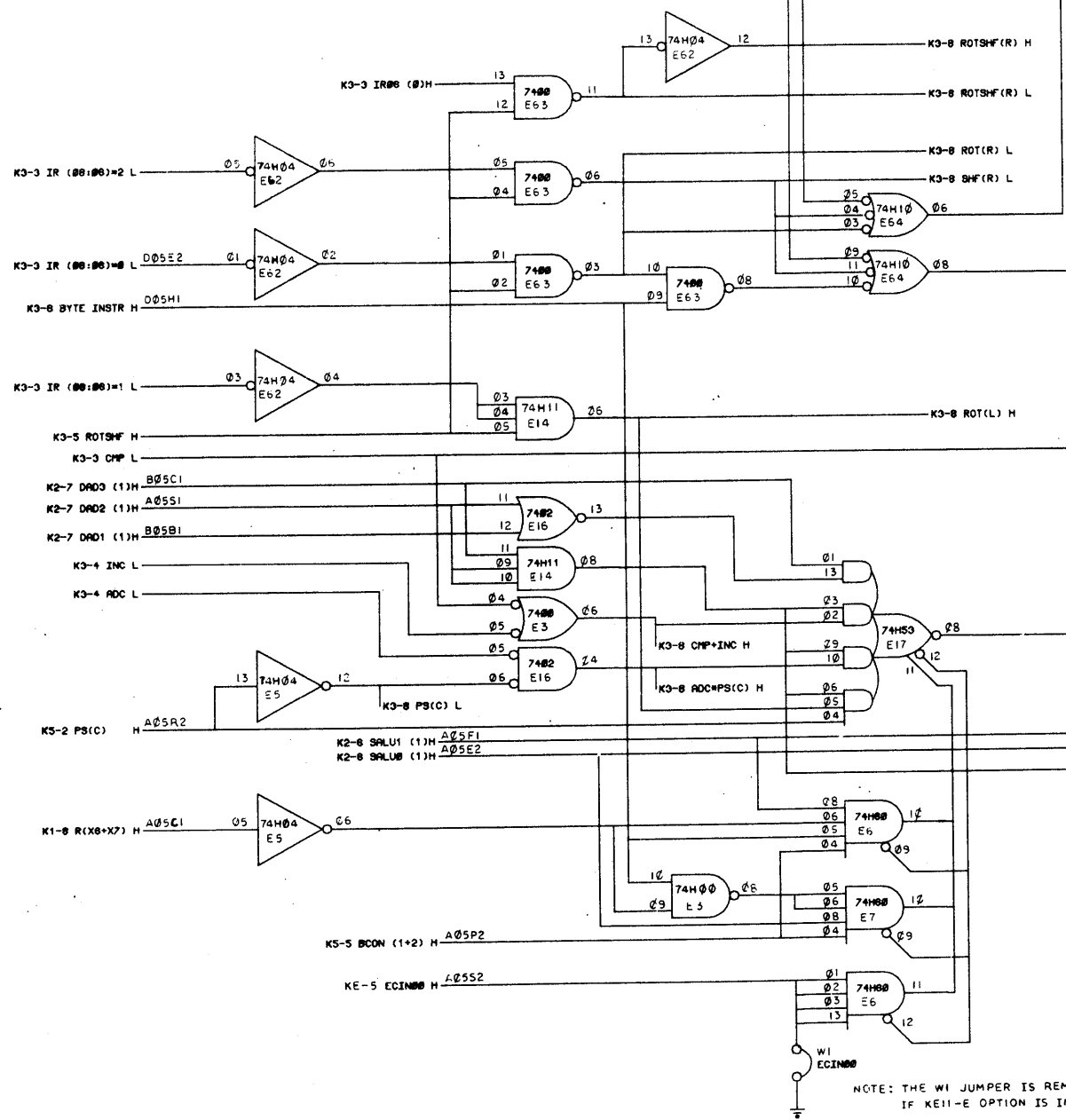
D

C

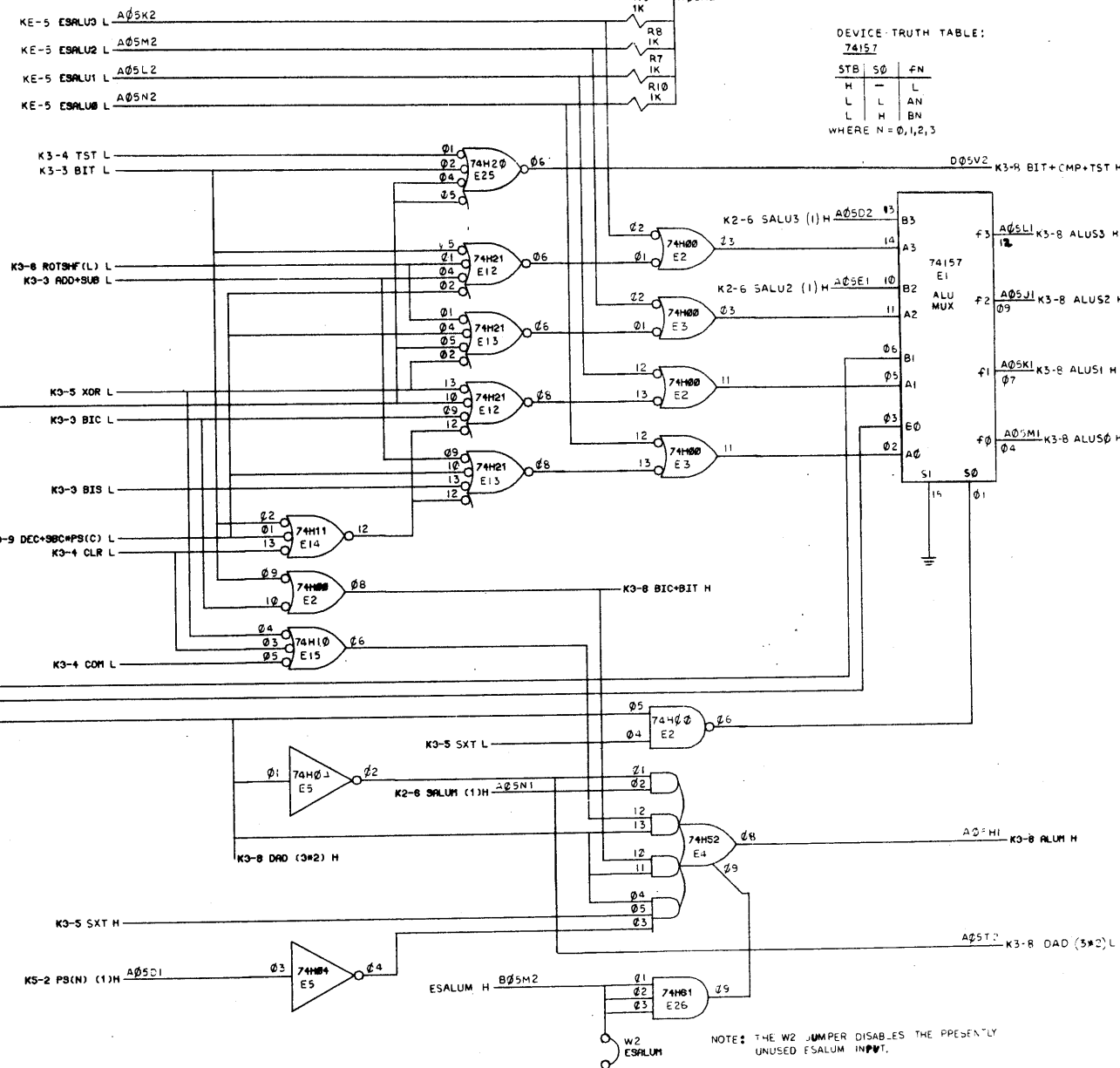
B

A

KE-5 ECOMUXS1 L D05E1
KE-5 ECOMUXS2 L D05C1



NOTE: THE W1 JUMPER IS REMOVED
IF KE11-E OPTION IS INSTALLED



DEVICE TRUTH TABLE:
74157

STB	S0	FN
H	L	L
L	L	AN
L	H	BN

WHERE N = 0, 1, 2, 3

NOTE: THE W2 JUMPER DISABLES THE PRESENTLY
UNUSED ESALUM INPUT.

-PRODUCED BY THE AUTOMATED DRAWING SYSTEM-

DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHKD	DATE	
ENG	DATE	TITLE
APP'D	DATE	
POD'D	DATE	IR DECODE ALU CONTROL K3-8
FIRST USED ON	DATE	
POP11		NUMBER 47233-0-1
SCALE		
SHEET 8	OF 9	REV. E

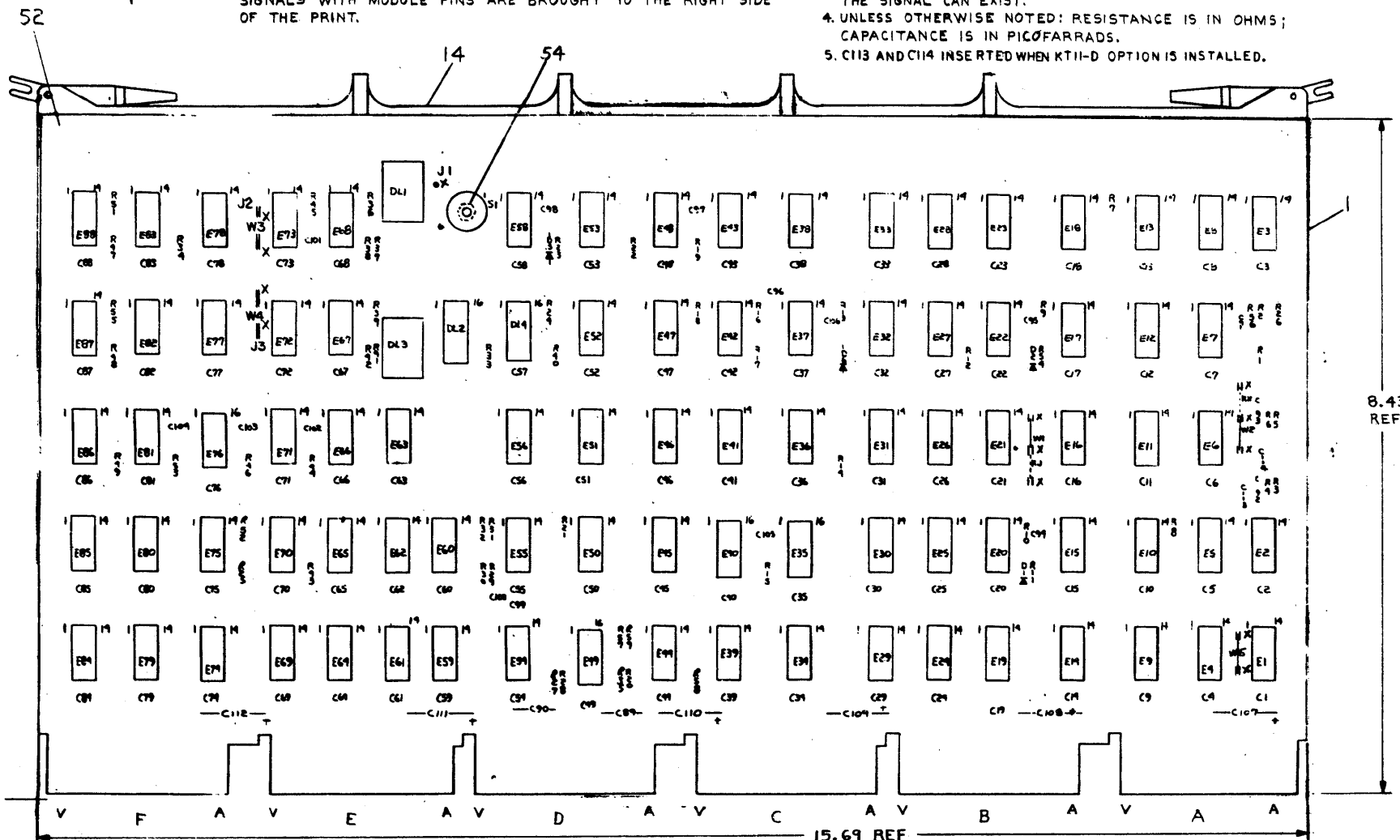
AUG 25 1971

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part in the design or construction of any other product without written permission.

NOTES:

1. PIN NOTATION THROUGHOUT IS ORDER UPON MODULE PLACEMENT IN THE KDII-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER.
2. ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.

3. PROCESSOR SIGNAL PREFIX NOTATION (K2-1 FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENTS A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
4. UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARRADS.
5. C113 AND C114 INSERTED WHEN KTII-D OPTION IS INSTALLED.



A07A2
B07A2

A07C2, A07T1
B07C2, B07T1
C07C2, C07T1
D07C2, D07T1
E07C2, E07T1
F07C2, F07T1

GND

DEC 74175	8	16
DEC 74123	8	16
DEC 8640	1	8
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

DEC 74175
8640-1234

8

7

6

5

4

3

2

1

QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	W1, W2, W3, W4, W5	USED AS A SPACER	INSULATED JUMPER	9009185	29
1	13		HEX NYLON NUT, "4-40	9007992	34
1	12		SPLIT LUGS	9006735	53
1	12		EYELET	9006732	52
1	E40		I.C. DEC 74175	1910651	51
3	E35, E49, E76		I.C. DEC 74123	1910436	50
4	E26, E30, E56, E17		I.C. DEC 8815	1909713	48
6	E2, E8, E42, E44, E55, E70		I.C. DEC 8881	1909705	47
7	E7, E15, E29, E32, E53, E75, E88		I.C. DEC 7404	1909686	46
5	E10, E27, E78, E93, E12		I.C. DEC 74H74	1910667	45
4	E1, E3, E37, E39		I.C. DEC 8640	1911469	44
7	E14, E33, E46, E47, E60, E71, E5		I.C. DEC 74H11	1909267	43
1	E89		I.C. DEC 74H55	1909063	42
3	E77, E92, E6		I.C. DEC 74H53	1909062	41
4	E16, E23, E65, E31		I.C. DEC 74H50	1909060	40
2	E34, E51		I.C. DEC 74H21	1909058	39
4	E17, E4, E41, E69		I.C. DEC 74H10	1909057	38
6	E21, E63, E64, E66, E72, E73		I.C. DEC 74H00	1909056	37
3	E22, E43, E86		I.C. DEC 7402	1909004	36
5	E62, E87, E9, E80, E48		I.C. DEC 74H20	1905635	35
5	E59, E67, E68, E61, E25		I.C. DEC 74H40	1905596	34
					33
					32
					31
					30
10	E18, E20, E28, E36, E45, E52, E74, E79, E84, E85		I.C. DEC 7400	1905575	24
7	E11, E13, E38, E50, E54, E81		I.C. DEC 7474	1905547	29
					28
2	DL2, DL4		DELAY LINE 100NS	1612033	27
1	DL3		DELAY LINE 50NS	1609428	26
1	DL1		DELAY LINE 30NS	1609427	25
2	R20, R28		RES 39K 1/4W ±5%	1302514	24
3	R15, R46, R53		RES 5.6K 1/4W ±5%	1301874	23
23	R1, R2, R3, R5, R7, R8, R12, R18, R21, R22, R25, R26, R27, R31, R32, R34, R43, R47, R48, R49, R51, R52, R55		RES 1K 1/4W ±5%	1300365	22
4	R35, R57, R58, R59		RES 180 1/4W ±5%	1301322	21
5	R9, R10, R14, R17, R24		RES 470 1/4W ±5%	1300316	20
2	R39, R37		RES 330 1/4W ±5%	1300295	19
6	R11, R13, R23, R33, R40, R54		RES 220 1/4W ±5%	1300271	18
2	R38, R41		RES 150 1/4W ±5%	1300250	17
3	R36, R42, R45		RES 100 1/4W ±5%	1300229	16
8	R4, R6, R16, R19, R29, R30, R44, R56		RES 47 1/4W ±5%	1300202	15
					14
1			HANDLE, MODULE	1210711-02	13
1	SI		SWITCH, 10 POS	1210042-01	12
4	DI1, DI2, DI5, DI6		DIODE D664	1100114	11
6	C107 THRU C112		CAP 6.8MF 35V ±10% TANT	1005306	10
3	C89, C90, C91		CAP 1200PF 100V ±5% D.M.	1002619	9
2	C104, C105		CAP 27PF 100V ±5% D.M.	1001739	8
88	C1 THRU C88		CAP .01MF 100V ±20% DISC	1001610	7
3	C97, C101, C103		CAP 1000PF 100V ±5% D.M.	1000042	6
3	C92, C99, C100		CAP 470PF 100V ±5% D.M.	1000024	5
5	C94, C96, C98, C102, C106		CAP 330PF 100V ±5% D.M.	1000023	4
2	C93, C95		CAP 220PF 100V ±5 D.M.	1000021	3
					2
					1
1			ETCH CIRCUIT BOARD	5009983	1

FIRST USED ON OPTION MODEL

PDP 11

ETCH BOARD REV

D

DATE

6-23-72

DATE

7/19/72

DATE

7/19/72

DATE

7/19/72

DATE

7/19/72

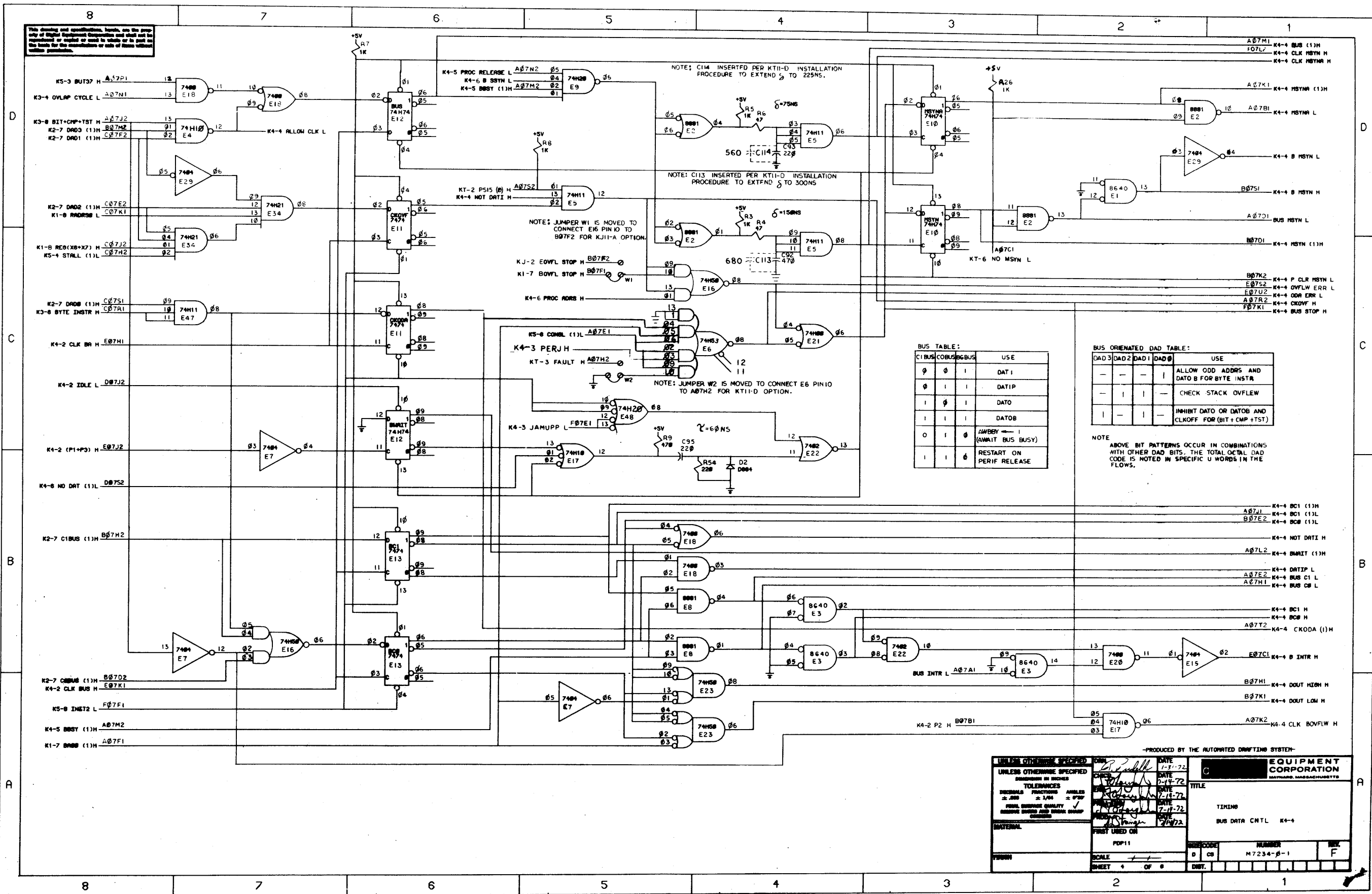
DATE

7/19/72

DATE

7/19/72

EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TIMING	
K4-1	
REV. F	
D664 IN3606	
KDII-A	
SCALE	
SHEET 1 OF 6	
DICS M7234-0-1	
DIST.	



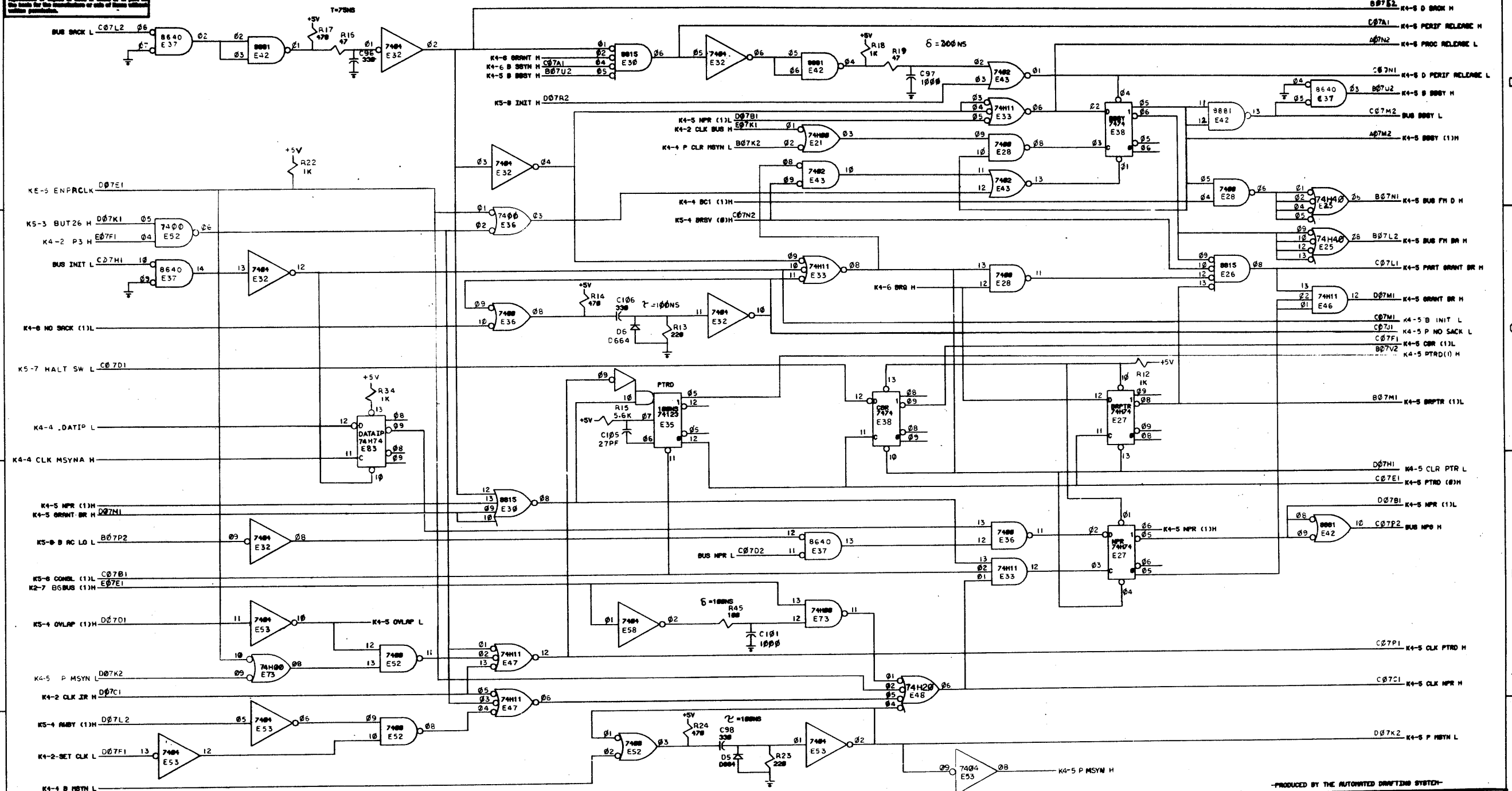
This drawing and specification, taken as the property of the United States Government and shall not be reproduced or copied in whole or in part for the transmission of information or for the production of any other document without permission.

D

C

B

A



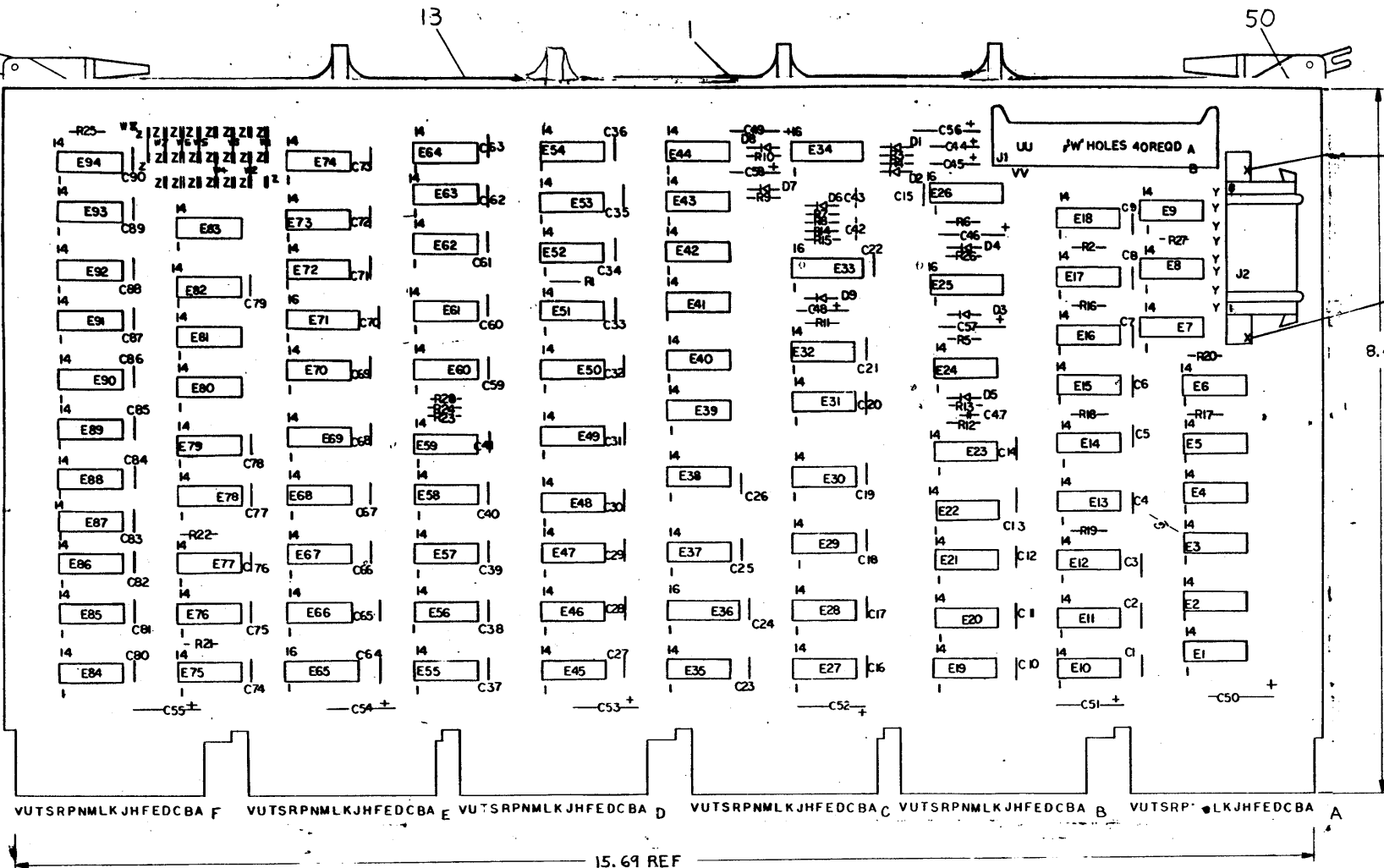
PRODUCED BY THE AUTOMATED DRAFTING SYSTEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ± .010 ± .005 ± .010 SURFACE FINISH RA 125 ± .001 HOLE DRILLING HOLE DRILLING	DATE 2-1-72 2/9/72 2/9/72 2/9/72 2/9/72	EQUIPMENT CORPORATION BIRMINGHAM, ALABAMA 35202
TITLE BUS CONTROL	DESIGNED BY K4-5	REVISION M7234-B-1
SCALE SHEET 5 OF 6	DATE 2-1-72	FILE

NOTES:

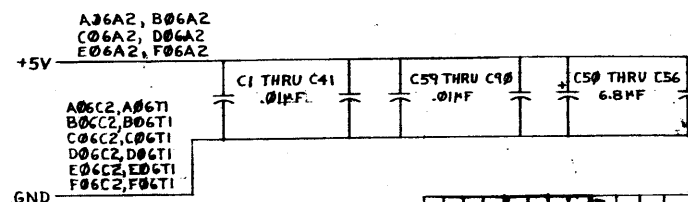
1. PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE KDI-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE LETTER.
2. ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.

3. PROCESSOR SIGNAL PREFIX NOTATION (K2-1, FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE, PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
4. UNLESS OTHERWISE NOTED, RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARADS.



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	C91	CAP. 270PF 100V 5%	1000022	54
1		INSULATED JUMPER L-2207-1	4003185	53
2		HEX NUT NYLON	4007992	52
23		SPLIT LUG	4006735	51
12		EYELET	4006732	50
2		SHOULDER WASHER FIBER (BLK)	4006493	49
2		SCREW NYLON	4006401-4	48
1	E65	I.C. DEC 74157	1910655	47
4	E25, E26, E33, E34	I.C. DEC 74123	1910436	46
4	E24, E45, E60, E82	I.C. DEC 74H04	1909931	45
5	E13, E37, E58, E70, E81	I.C. DEC 8815	1909713	44
5	E16, E84, E85, E89, E89	I.C. DEC 8881	1909705	43
7	E1 THRU E4, E20, E29, E41	I.C. DEC 7404	1909686	42
1	E52	I.C. DEC 74H74	1909667	41
2	E36, E71	I.C. DEC 8251	1909594	40
1	E15	I.C. DEC 8640	1911469	39
4	E14, E40, E48, E72	I.C. DEC 74H11	1909267	38
1	E55	I.C. DEC 74H61	1909065	37
1	E66	I.C. DEC 74H60	1909064	36
1	E59	I.C. DEC 74H55	1909063	35
2	E91, E92	I.C. DEC 74H53	1909062	34
2	E63, E67	I.C. DEC 74H52	1909061	33
4	E47, E56, E69, E87	I.C. DEC 74H50	1909060	32
1	E62	I.C. DEC 74H21	1909058	31
4	E7, E68, E80, E83	I.C. DEC 74H10	1909057	30
2	E57, E90	I.C. DEC 74H00	1909056	29
7	E5, E27, E28, E35, E39, E49, E54	I.C. DEC 7402	1909004	28
1	E46	I.C. DEC 74H20	1908635	27
3	E17, E18, E86	I.C. DEC 74H40	1908586	26
2	E31, E64	I.C. DEC 7450	1908580	25
2	E9, E94	I.C. DEC 7430	1908578	23
4	E8, E19, E43, E93	I.C. DEC 7420	1908577	22
3	E38, E51, E53	I.C. DEC 7410	1908576	21
7	E1E21, E22, E23, E30, E73, E74	I.C. DEC 7400	1908575	20
13	E6, E10, E12, E32, E42, E44, E50, E61, E75 THRU E79	I.C. DEC 7474	1908547	19
4	R3, R4, R5, R6	RES 18K 1/4W ±5%	1302465	18
4	R9, R10, R11, R15	RES 12K 1/4W ±5%	1300488	17
16	R1, R2, R4, R16 THRU R28	RES 1K 1/4W ±5%	1300365	16
2	R8, R12	RES 470Ω 1/4W ±5%	1300316	15
2	R7, R13	RES 220Ω 1/4W ±5%	1300271	14
1		HANDLE MODULE	1210711-02	13
1		PINS SOCKET AMP	1209456	12
1	J1	CONN RIGHT ANGLE HEADER	1209441	11
1	J2	CONN PIN HOUSING	1209340	10
9	D1 THRU D9	DIODE D664	1100114	9
7	C50 THRU C56	CAP 6.8MF 35V ±10% TANT	1005306	8
2	C46, C57	CAP 15MF 20V ±10% TANT	1004812	7
1	C48	CAP 2.2MF 20V ±10% TANT	1002627	6
1	C58	CAP 1MF 35V ±10% TANT	1001776	5
73	C1 THRU C41	CAP .01MF 100V ±20% DISC	1001610	4
3	C44, C45, C49	CAP 3.9MF 10V ±10% TANT	1000064	3
3	C42, C43, C47	CAP 680PF 100V ±5% D.M.	1000026	2
1		ETCH CIRCUIT BOARD	5009984	1

DEC NO.	EIA NO.	DEC NO.	EIA NO.
DEC 74157	8	DEC 74123	8
DEC 8251	8	DEC 8640	1
IC TYPE	GND	+5V	
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.			
IC PIN LOCATIONS			



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCH CIRCUIT BOARD	5009984	1

FIRST USED ON OPTION MODEL		PDP 11	
ETCH BOARD REV		E	
D664		IN3606	
DEC NO.		EIA NO.	
DEC NO.		EIA NO.	
SEMICONDUCTOR CONVERSION CHART			
SHEET 1 OF 2		DIST.	

EQUIPMENT CORPORATION		STATUS	
K5-1		REV. H	
M7235-0-1		DICS	

A



_____ K5-3 BUT01 H

UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		DATE	MAYTAG, MASSACHUSETTS	
TOLERANCES		DATE	TITLE	
DIMENSIONS FRACTIONS ANGLES	DATE	DATE	STATUS	
± .005 ± 1/64 ± 0°30'	DATE	DATE	BUT & BRANCH	
POUR SHIPMENT QUALITY	DATE	DATE	KS-3	
SHIPPING WEIGHT AND DIMENSIONS	DATE	DATE	FIRST USED ON	
DATE	DATE	DATE	PDF11	
DATE	DATE	DATE	SCALE	
DATE	DATE	DATE	SHEET 3 OF 8	
DATE	DATE	DATE	DIBT.	

This drawing and specifications, herein, are the property of Equipment Corporation and shall not be reproduced or copied in whole or in part, nor the data for the reproduction or sale of them, without written permission.

D

C

B

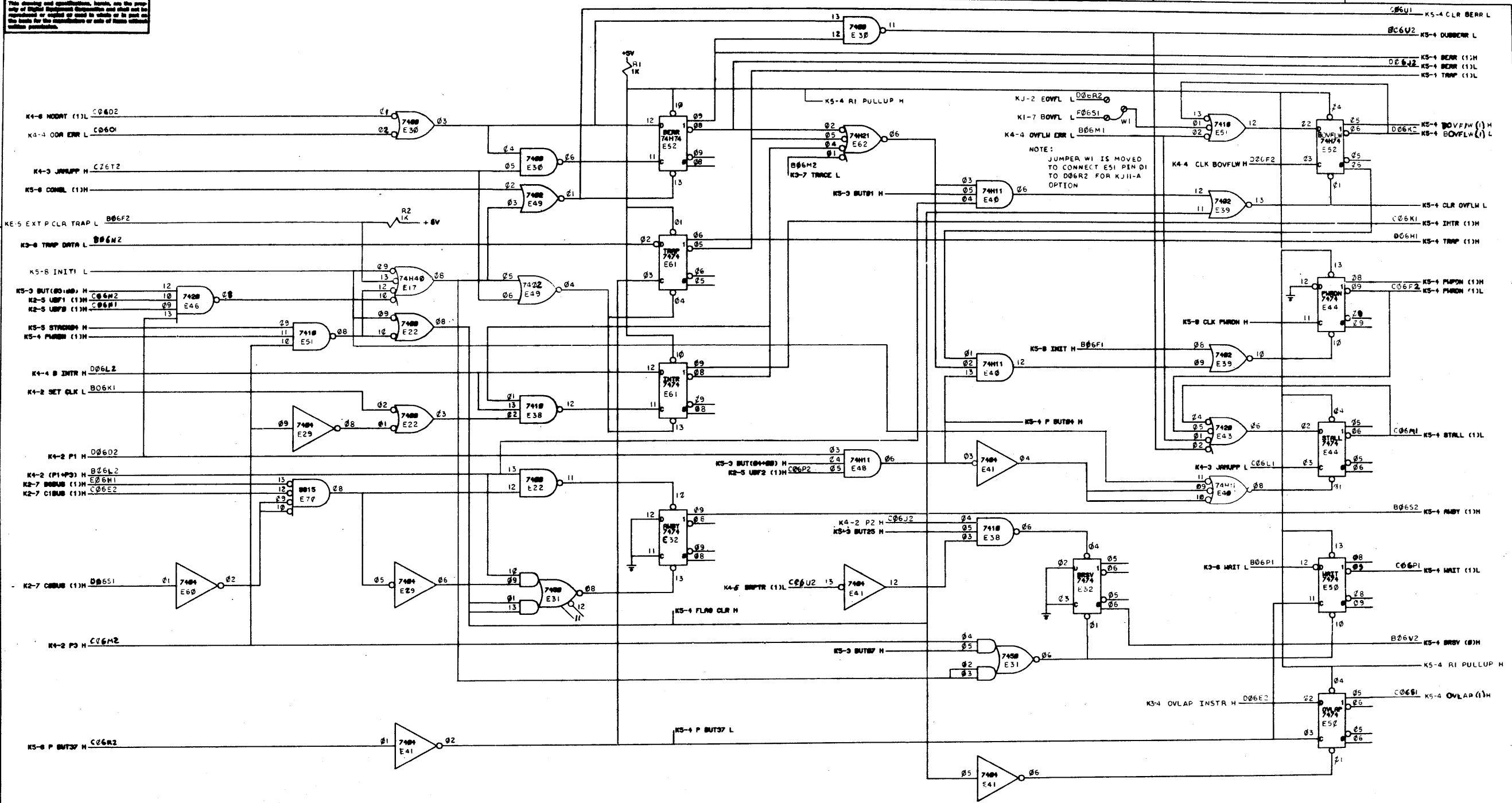
A

D

C

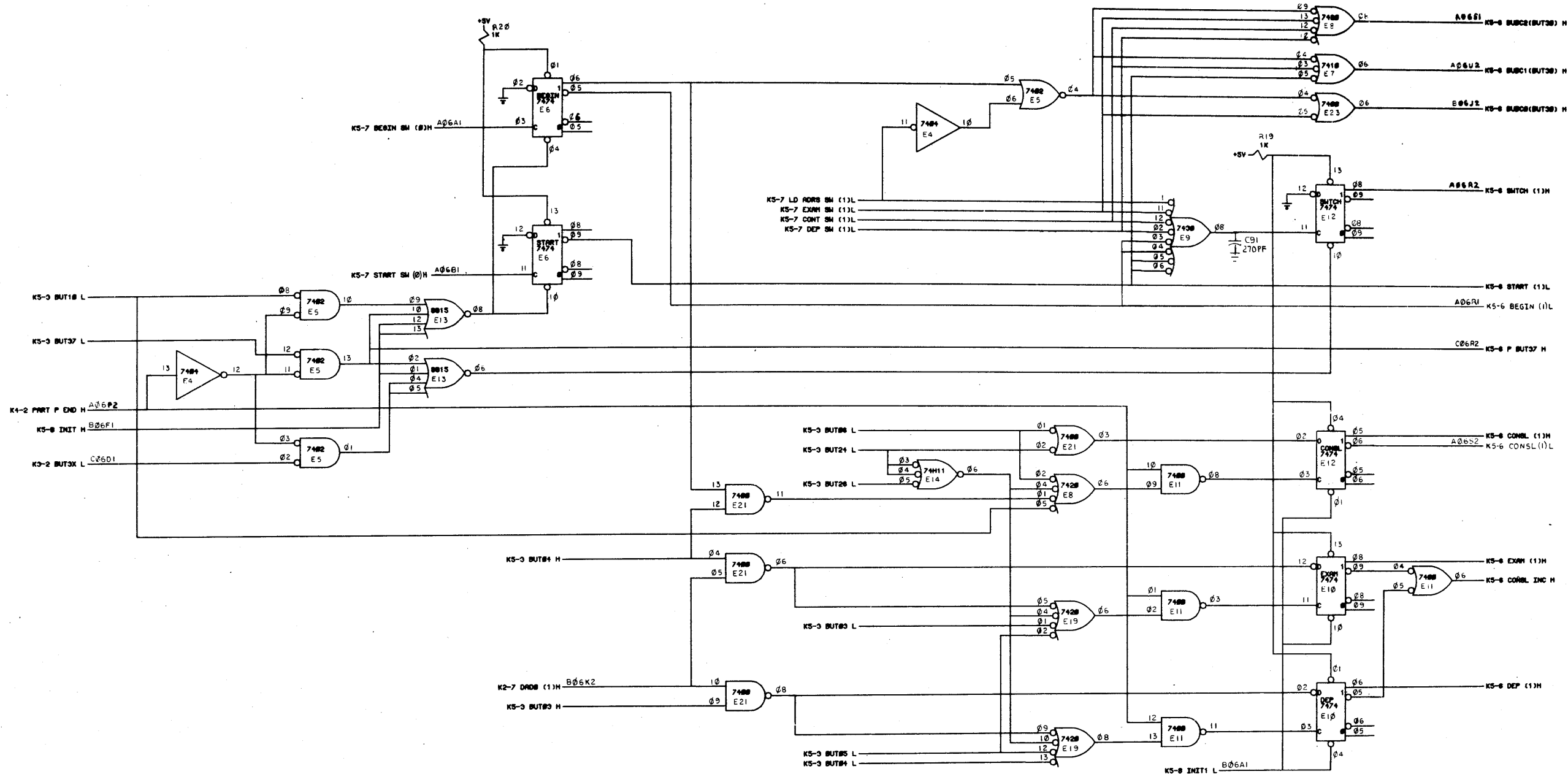
B

A



PRODUCED BY THE AUTOMATED DRAFTING SYSTEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ±.005 ±.002 ±.001 ±.0005 FINISHES MATERIALS EQUIPMENT CORPORATION MILWAUKEE, WISCONSIN 53211	DATE 2-7-72 BY J. J. J. CHECKED J. J. J. APPROVED J. J. J. FIRST USED ON POP11	TITLE K5-4	STATUS FLAG
SCALE SHEET 4 OF 8		NUMBER M7235-0-1	REV. H

[illegible]

A



UNLESS OTHERWISE SPECIFIED		DATE		EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		2-8-72		MAYNARD, MASSACHUSETTS	
DIMENSIONS IN INCHES		CABLE		TITLE	
TOLERANCES		2-8-72		STATUS	
DECIMALS	FRACTIONS	DATE		CABLES	
± .005	± 1/64	2-8-72		K5-7	
FORM, SURFACE QUALITY		DATE			
RESERVE SURDS AND BREAK GROUP		2-1-72			
CABLES		FIRST USED ON		SIZE CODE	
MATERIAL		POP11		NUMBER	
				M7235-0-1	
FINISH		SCALE		REV.	
		1:1		H	
SHEET		7 OF 8		DIST.	

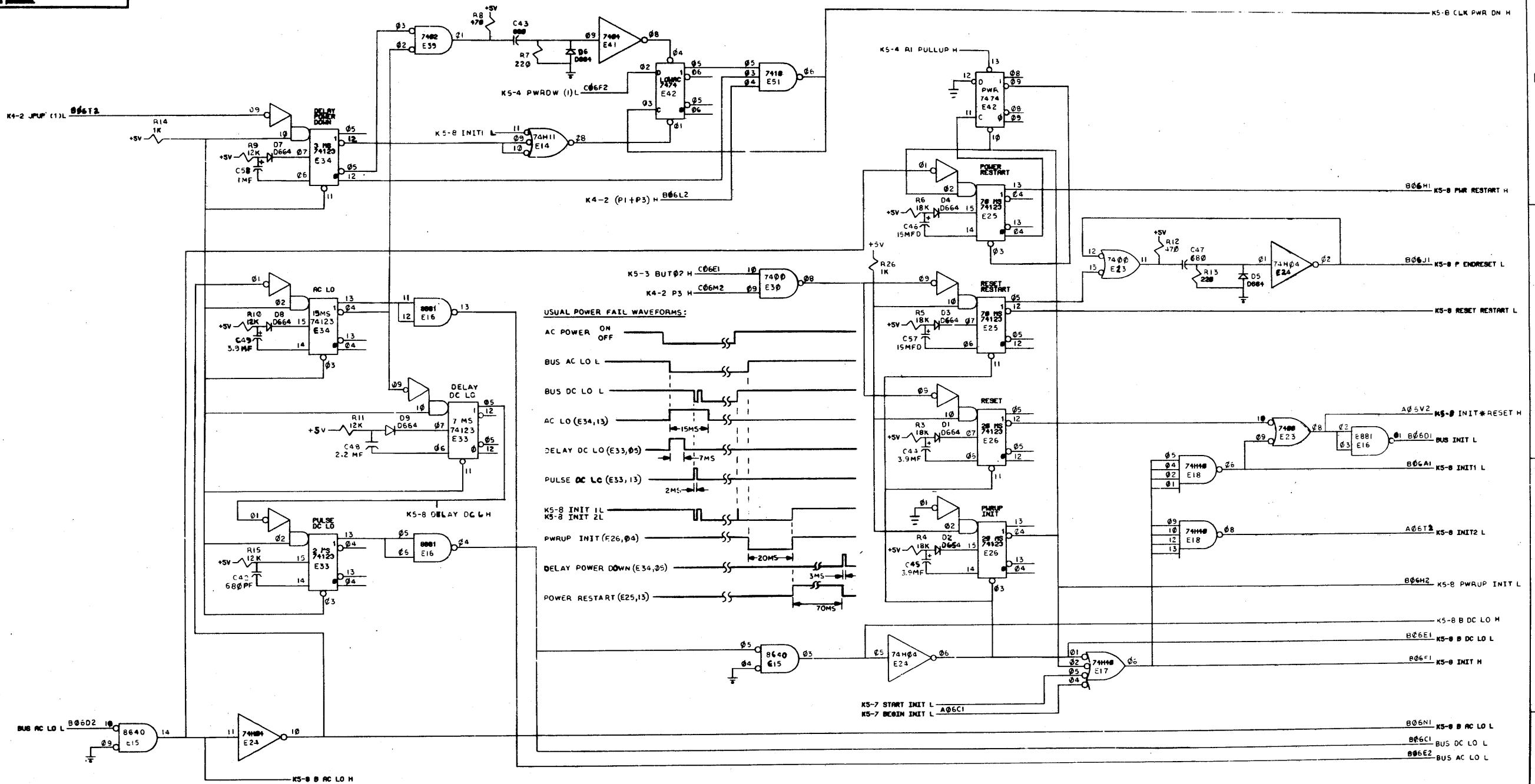
This drawing and specification, herein, are the property of Equipment Corporation and shall not be reproduced or copied in whole or in part without the written permission of the manufacturer or any of its subsidiaries.

D

C

B

A



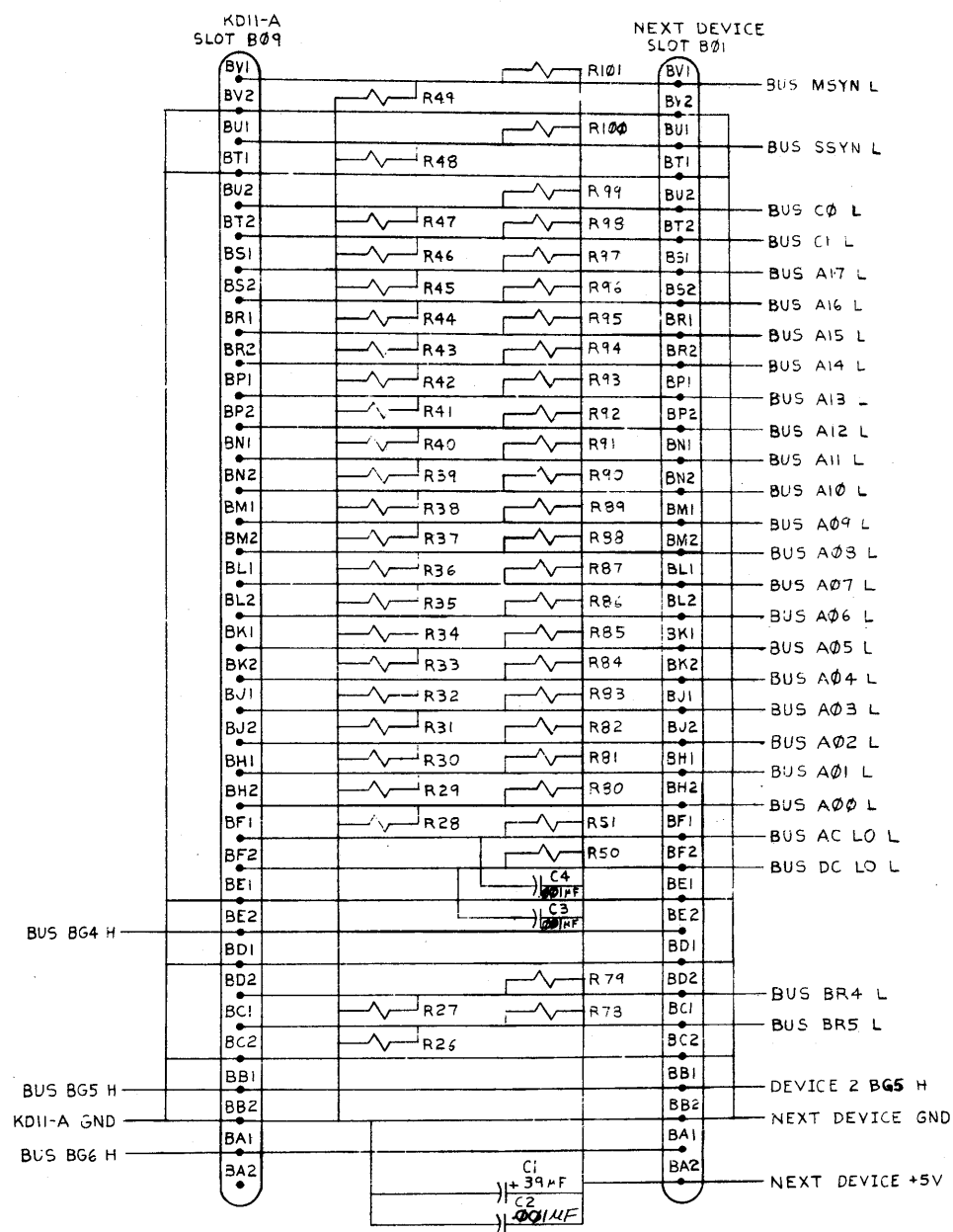
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ±.005 ±.001 ±.001 ±.001 FILL SURFACE QUALITY REMOVE BURRS AND SHARP EDGES		DATE 2-8-72 DATE 7/1/72 DATE 7/1/72 DATE 7/1/72 DATE 7/1/72		EQUIPMENT CORPORATION HARTFORD, CONNECTICUT	
PROJECT NO. PEP11		SCALE 1" = 1"		TITLE STATUS BUS DELAYS KS-8	
DRAWN BY		CHECKED BY		APPROVED BY	
DATE		DATE		DATE	
1		2		3	

1 AUG 27 1971

1

[illegible]

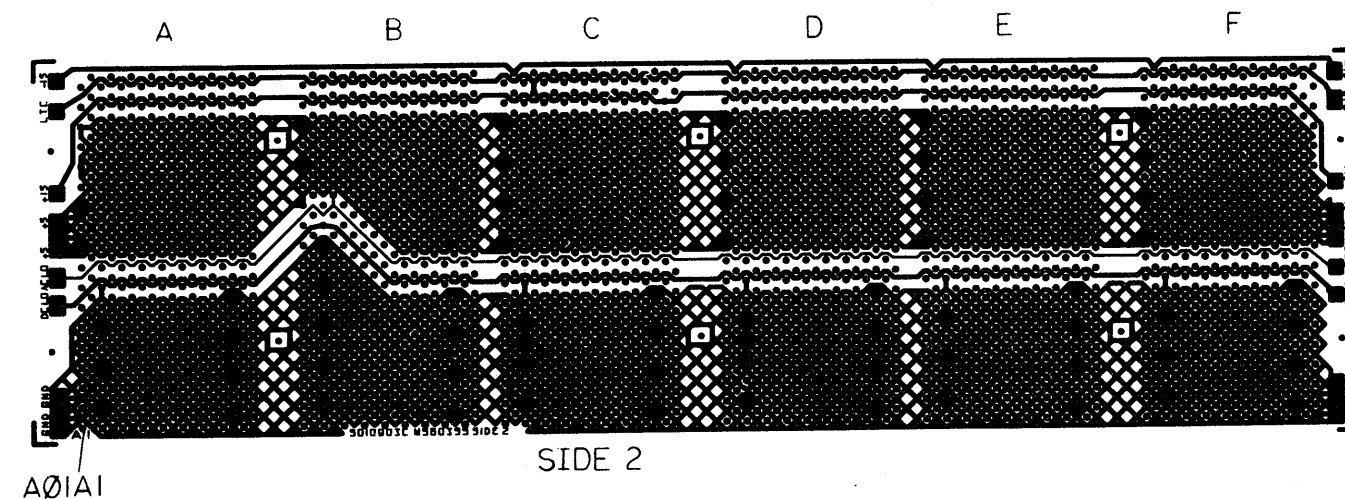
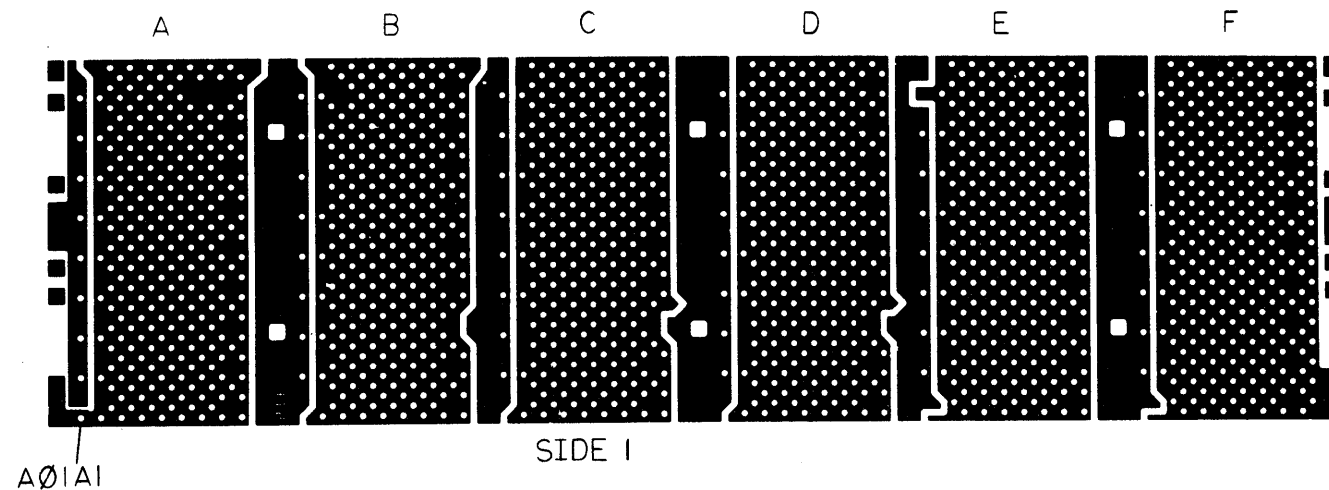
SIZE	D	CS	5409764-0-1	REV	J
------	---	----	-------------	-----	---



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
KD11-A			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN 6-12-72	DATE 6-12-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	CHKD 7/14/72	DATE 7/14/72	TITLE	
XXX - .005	± 0° 30'	ENG 7/14/72	DATE 7/14/72	INTERNAL UNIBUS	
.XX - .02		DRW 7/14/72	DATE 7/14/72	AND TERMINATOR	
.X - .1		CHKD 7/14/72	DATE 7/14/72		
REMOVE BURRS AND BREAK SHARP CORNERS ✓ SURFACE QUALITY					
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER	REV.
11	D-UA-M981-0-0		D CS	5409764-0-1	J
FINISH	SCALE NONE				
11	SHEET 2 OF 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 © JUNE 1974 DIGITAL EQUIPMENT CORPORATION"

NOTES:

[illegible]

REF		KDII-A AWT REV STATUS	A-WT-7010230-O	1
REF		MODULE ECO HISTORY	B-MH-5410904-O-6	4
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5410904-O-5	3
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5410904-O-4	2
I		ETCHED CIRCUIT BOARD	5010903	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST														
ETCH BOARD REV.	C													

DRN. <i>J. Vincent</i>	DATE 6-21-74	digital TITLE CIRCUIT SCHEMATIC (KDII-A)		
CHD. <i>L. Neal</i>	DATE 7-31-74			
ENG. <i>KE Paine</i>	DATE 8-8-74			
PROD. ENG. <i>Joe Keys</i>	DATE 8-1-74			
PROG. <i>W. H. H. H.</i>	DATE 8-1-74			
NEXT HIGHER ASSY D-AD-7010085-0-0				
DEC NO.	EIA NO.	SIZE CODE D CS	NUMBER 5410904-0-1	REV. C

R CONVERSION CHART		SHEET	1	OF	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.

WIRE LIST CHARACTERISTICS:

1. SIGNAL NAMES ARE LISTED WITHOUT THEIR PRINT SOURCE PREFIX. THIS AIDS ALPHABETICAL SEARCHES.
2. THE PRINT OR PRINTS UPON WHICH A GIVEN PIN ENTRY APPEARS IS NOTED IN THE "DRAW" COLUMN. MULTIPLE SHEET ENTRIES ARE NOTED WITHOUT COMMA'S WITH THE PRINT DESIGNATORS. FOR EXAMPLE "K4-235", INDICATES ENTRIES ON SHEETS 2,3 and 5 IN THE K4 MODULE PRINTS, NO PRINT SETS HAVE MORE THAN NINE PAGES.
3. THE PRINT PREFIX AND THE ORIGIN OF THE SIGNAL CAN BE DETERMINED BY THE SOURCE NOTATION IN THE "REMARK" COLUMN. THIS SOURCE ENTRY, PRINT PREFIX IS USED BEFORE THE SIGNAL NAME ON ALL DRAWINGS. MULTIPLE SHEET ENTRIES HAVE THE SPECIFIC PRINT NOTED.
4. BUS SIGNALS WHICH OFTEN HAVE MULTIPLE (WIRED OR) SOURCES DO NOT HAVE PRINT PREFIXES. THE USE OF "BUS" IN THE NAME IDENTIFIES THESE SIGNALS, SIGNALS FOR +5V AND GND ALSO HAVE NO PRINT PREFIX.
5. THE WIRE LIST CONTAINS ETCH BACKPANEL CONNECTIONS AS WELL AS WIRE WRAP CONNECTIONS. ETCH IS IDENTIFIED BY AN "H" IN THE "Q" COLUMN AND A "P" IN THE "REMARK" COLUMN. "EXCEPTION" COLUMN NOTATIONS FOR ETCH CONNECTIONS SHOULD BE IGNORED. THE WIRE LIST ALSO CONTAINS TWISTED PAIR CONNECTIONS WHICH ARE IDENTIFIED BY AN "H" IN THE "Q" COLUMN AND "TWP" IN THE "REMARKS" COLUMN.

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11			PARTS LIST		
DRN	70/10/10	DATE	7/31/72	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHKD	70/10/10	DATE	7/31/72	TITLE	
ENG	70/10/10	DATE	7/31/72	BACK PLANE	
PROJ ENG	70/10/10	DATE	7/31/72	(KDII-A PROCESSOR)	
PROD	70/10/10	DATE	8-2-72		
NEXT HIGHER ASSEMBLY					
D-AD-7010230-0-0			SIZE CODE	NUMBER	REV.
SCALE			K WL	KDII-A-WL	N
SHEET 1 OF 1			DIST.		

WD11A,N RUN NAME	WRAPD .V35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PTN	BAY - ORDER	Q DRAW	RV RG Y OPT	X Z	REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 1 EXCEPTIONS	RUN NUMBER
(P1+P3)	H	B06L2	1-01 *		K5-48	1			N	6-1/8	1
(P1+P3)	H	D00J1	1-02 *		KT-2	2			N	3-1/8	1
(P1+P3)	H	E07J2	1-03 *		K4-24		SOURCE (K4-2)				1
(P1+P3)	H		1								1
+15V		C09U1		P						9-2/8	1
										1-PIN RUN	2
+5V		A01A2	1-01 *	P		1					3
+5V		A02A2	1-02 *	P		2					3
+5V		A03A2	1-03 *	P		1					3
+5V		A04A2	1-04 *	P		2					3
+5V		A05A2	1-05 *	P		1					3
+5V		A06A2	1-06 *	P		2					3
+5V		A07A2	1-07 *	P		1					3
+5V		A08A2	1-08 *	P		2					3
+5V		A09A2	1-09 *	P		1					3
+5V		B09A2	1-10 *	P		2				3-2/8	3
+5V		B08A2	1-11 *	P		1					3
+5V		B07A2	1-12 *	P		2					3
+5V		B06A2	1-13 *	P		1					3
+5V		B05A2	1-14 *	P		2					3
+5V		B04A2	1-15 *	P		1					3
+5V		B03A2	1-16 *	P		2					3
+5V		B02A2	1-17 *	P		1					3
+5V		B01A2	1-18 *	P		2					3
+5V		C01A2	1-19 *	P		1					3
+5V		C02A2	1-20 *	P		2					3
+5V		B03V1	1-21 *	P		1				0-5/8	3
+5V		C03A2	1-22 *	P		2				0-5/8	3
+5V		C04A2	1-23 *	P		1					3
+5V		C05A2	1-24 *	P		2					3
+5V		C06A2	1-25 *	P		1					3
+5V		C07A2	1-26 *	P		2					3
+5V		C08A2	1-27 *	P		1					3
+5V		C09A2	1-28 *	P		2					3
+5V		D09A2	1-29 *	P		1				3-2/8	3
+5V		D08A2	1-30 *	P		2					3
+5V		D07A2	1-31 *	P		1					3
+5V		D06A2	1-32 *	P		2					3
+5V		D05A2	1-33 *	P		1					3
+5V		D04A2	1-34 *	P		2					3
+5V		D03A2	1-35 *	P		1					3
+5V		D02A2	1-36 *	P		2					3
+5V		D01A2	1-37 *	P		1					3
+5V		C03V1	1-38 *	P		2				1-5/8	3
+5V		D03V1	1-39 *	P		1				3-2/8	3
+5V		E02A2	1-40 *	P		2				0-5/8	3
+5V		E01B1	1-41 *	P		1				1-1/8	3
+5V		E01A2	1-42 *	P		2				0-1/8	3
+5V		E03A2	1-43 *	P		1				1-4/8	3
+5V		E04A2	1-44 *	P		2					3
+5V		E05A2	1-45 *	P		1					3
+5V		E06A2	1-46 *	P		2					3
+5V		E07A2	1-47 *	P		1					3
+5V		E08A2	1-48 *	P		2					3
+5V		E09A2	1-49 *	P		1				3-2/8	3

KD11A,N		WRAPD .V35(102)-1		03-JUN-77		27-Oct-77		16:17		PAGE 4		RUN	
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV RG Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	NUMBER
B SSYN	H	C07A1		1-01 *			K4-256		1	SOURCE (K4-6)	N	12-5/8	30
B SSYN	H	F01M1		1-02 *			KM-2						30
B SSYN	H			1								12-5/8	30
B WAIT (1)	H	A07L2					K4-4			SOURCE		1-PIN RUN	31
B07 (1)	H	A04N1					K1-345			SOURCE (K1-3)		1-PIN RUN	32
B15 (1)	H	A04P1		1-01 *			K1-35		2	SOURCE (K1-5)	N	3-5/8	33
B15 (1)	H	B02M2		1-02 *			KE-45		1		N	5-3/8	33
B15 (1)	H	D01E2		1-03 *			KF-4		2		N	4-3/8	33
B15 (1)	H	F01S1		1-04 *			KM-2						33
B15 (1)	H			1								13-3/8	33
BA(06:03)=0	H	D04K1					K1-7			SOURCE		1-PIN RUN	34
BA(06:03)=1	H	D04D2					K1-7			SOURCE		1-PIN RUN	35
BA(07:05)=1	L	B04P1		1-01 *			K1-7		1	SOURCE	N	7-1/8	36
BA(07:05)=1	L	F03A1		1-02 *			KJ-2						36
BA(07:05)=1	L			1								7-1/8	36
BA(15:08)=1	L	B04N2					K1-7			SOURCE		1-PIN RUN	37
BA(17:16)	H	A04S2		1-01 *			K1-69		1	SOURCE (K1-6)	N	6-7/8	38
BA(17:16)	H	C08K2		1-02 *			KT-9						38
BA(17:16)	H			1								6-7/8	38
BA00 (1)	H	A08F2		1-01 *			KT-8		1		N	1-2/8	39
BA00 (1)	H	A07F1		1-02 *			K4-4		2		N	1-3/8	39
BA00 (1)	H	A06N2		1-03 *			K5-7		1		N	9-5/8	39
BA00 (1)	H	D05S1		1-04 *			K3-7		2		N	5-1/8	39
BA00 (1)	H	F04J1		1-05 *			K1-68			SOURCE (K1-6)			39
BA00 (1)	H			1								17-3/8	39
BA01 (1)	H	A08E2		1-01 *			KT-8		1		N	2-2/8	40
BA01 (1)	H	A06M1		1-02 *			K5-7		2		N	13-7/8	40
BA01 (1)	H	F04F1		1-03 *			K1-678			SOURCE (K1-6)			40
BA01 (1)	H			1								16-1/8	40
BA02 (1)	H	A08H2		1-01 *			KT-8		2		N	1-5/8	41
BA02 (1)	H	A06K2		1-02 *			K5-7		1		N	13-7/8	41
BA02 (1)	H	F04B1		1-03 *			K1-678			SOURCE (K1-6)			41
BA02 (1)	H			1								15-4/8	41
BA03 (1)	H	A08D2		1-01 *			KT-8		2		N	2-2/8	42
BA03 (1)	H	A06L1		1-02 *			K5-7		1		N	9-1/8	42
BA03 (1)	H	D04K2		1-03 *			D1-678			SOURCE (K1-6)			42
BA03 (1)	H			1								11-3/8	42
BA04 (1)	H	A08K2		1-01 *			KT-8		2		N	2-1/8	43
BA04 (1)	H	A06P1		1-02 *			K5-7		1		N	7-7/8	43
BA04 (1)	H	D04B1		1-03 *			K1-67			SOURCE (K1-6)			43
BA04 (1)	H			1								10-0/8	43

KD11A,N		WRAPD .V35(102)-1		03-JUN-77		27-Oct-77		16:17		PAGE 5		RUN				
RUN	NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG Y	X	Z	REMARKS	NC FLAG	LENGTH	EXCEPTIONS	NUMBER
BA05	(1)	H	A08A1		1-01 *			KT-8			2		N	1-5/8		44
BA05	(1)	H	A06J2		1-02 *			K5-7			1		N	7-3/8		44
BA05	(1)	H	C04F2		1-03 *			K1-67				SOURCE (K1-6)				44
BA05	(1)	H			1									9-0/8		44
BA06	(1)	H	A08J2		1-01 *			KT-8			2		N	1-6/8		45
BA06	(1)	H	A06J1		1-02 *			K5-7			1		N	7-3/8		45
BA06	(1)	H	C04T2		1-03 *			K1-67				SOURCE (K1-6)				45
BA06	(1)	H			1									9-1/8		45
BA07	(1)	H	A08B1		1-01 *			KT-8			2		N	1-7/8		46
BA07	(1)	H	A06K1		1-02 *			K5-7			1		N	8-7/8		46
BA07	(1)	H	D04E1		1-03 *			K1-67				SOURCE (K1-6)				46
BA07	(1)	H			1									10-6/8		46
BA08	(1)	H	A06H1		1-01 *			K5-7			1		N	3-7/8		47
BA08	(1)	H	B08E1		1-02 *			KT-8			2		N	4-5/8		47
BA08	(1)	H	C04F2		1-03 *			K1-67			1	SOURCE (K1-6)	N	6-1/8		47
BA08	(1)	H	E03D1		1-04 *			KJ-2								47
BA08	(1)	H			1									14-5/8		47
BA09	(1)	H	A06E1		1-01 *			K5-7			1		N	4-3/8		48
BA09	(1)	H	B08E2		1-02 *			KT-8			2		N	3-7/8		48
BA09	(1)	H	C04D2		1-03 *			K1-67			1	SOURCE (K1-6)	N	6-3/8		48
BA09	(1)	H	E03C1		1-04 *			KJ-2								48
BA09	(1)	H			1									14-5/8		48
BA10	(1)	H	A06F1		1-01 *			K5-7			1		N	4-7/8		49
BA10	(1)	H	B08M2		1-02 *			KT-8			2		N	3-3/8		49
BA10	(1)	H	C04F1		1-03 *			K1-67			1	SOURCE (K1-6)	N	5-5/8		49
BA10	(1)	H	E03B1		1-04 *			KJ-2								49
BA10	(1)	H			1									13-7/8		49
BA11	(1)	H	A06D2		1-01 *			K5-7			1		N	4-3/8		50
BA11	(1)	H	B08K1		1-02 *			KT-8			2		N	4		50
BA11	(1)	H	C04K1		1-03 *			K1-67			1	SOURCE (K1-6)	N	5-1/8		50
BA11	(1)	H	E03D2		1-04 *			KJ-2								50
BA11	(1)	H			1									13-4/8		50
BA12	(1)	H	A06F2	A04M2	1-01 *			K5-7			1		N	2		51
BA12	(1)	H	A04M2		1-02 *			K1-67			2	SOURCE (K1-67)	N	4-6/8	BIN-COD ER	51
BA12	(1)	H	B08N2		1-03 *			KT-8			1		N	10-5/8		51
BA12	(1)	H	E03N2		1-04 *			KJ-2								51
BA12	(1)	H			1									17-3/8		51
BA13	(1)	H	A06H2	A04P2	1-01 *			K5-7			1		N	1-6/8		52
BA13	(1)	H	A04P2		1-02 *			K1-67			2	SOURCE (K1-6)	N	3-7/8		52
BA13	(1)	H	B08L1		1-03 *			KT-85			1		N	10-5/8		52
BA13	(1)	H	E03M2		1-04 *			KJ-2								52
BA13	(1)	H			1									16-2/8		52
BA14	(1)	H	A04H1		1-01 *			K1-67			2	SOURCE (K1-6)	N	1-7/8		53
BA14	(1)	H	A06E2		1-02 *			K5-7			1		N	6-5/8		53
BA14	(1)	H	C08F1		1-03 *			KT-85			2		N	8-3/8		53
BA14	(1)	H	E03L2		1-04 *			KJ-2								53
BA14	(1)	H			1									16-7/8		53

WRAPD .V35(102)-1 03-JUN-77										27-Oct-77	16117	PAGE 8	RUN		
KD11A,N	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC LENGTH	EXCEPTIONS	NUMBER
RUN NAME		NAME	PIN	ORDER		OPT							FLAG		
BIT+CMP+TST	H	A07J2		1-01 *			K4-4				1		N 10-5/8		81
BIT+CMP+TST	H	D05V2		1-02 *			K3-278					SOURCE (K3-8)			81
BIT+CMP+TST	H			1									10-5/8		81
BMUX07	H	E04F1		1-01 *			K1-3				1	SOURCE	N 1-5/8		82
BMUX07	H	E06H2		1-02 *			K5-2						1-5/8		82
BMUX07	H			1											82
BMUX15	H	A04L1		1-01 *			K1-5				1	SOURCE	N 11-7/8		83
BMUX15	H	E06J2		1-02 *			K5-2						11-7/8		83
BMUX15	H			1											83
BOVFL	L	C04C1		1-01 *			K1-7				1	SOURCE	N 10-7/8		84
BOVFL	L	F06S1		1-02 *			K5-4						10-7/8		84
BOVFL	L			1											84
BOVFL STOP	H	B07F1		1-01 *			K4-4				1		N 4-1/8		85
BOVFL STOP	H	C04E1		1-02 *			K1-7					SOURCE	4-1/8		85
BOVFL STOP	H			1											85
BOVFLW (0)	H	D06K2		1-01 *			K5-4				1	SOURCE	N 7-1/8		86
BOVFLW (0)	H	F05V2		1-02 *			K3-7						7-1/8		86
BOVFLW (0)	H			1											86
BPT	L	C06J1		1-01 *			K5-5				1		N 3-3/8		87
BPT	L	D05J2		1-02 *			K3-6					SOURCE	3-3/8		87
BPT	L			1											87
BR INSTR	L	D05N1		1-01 *			K3-5				1		N 6-1/8		88
BR INSTR	L	F06P1		1-02 *			K5-3					SOURCE	6-1/8		88
BR INSTR	L			1											88
BR00 (1)	H	D01A1		1-01 *			KF-2				1		N 1-5/8		89
BR00 (1)	H	D02J1		1-02 *			KE-2346					SOURCE (KE-2)	1-5/8		89
BR00 (1)	H			1											89
BR01 (1)	H	D01B1		1-01 *			KF-2				1		N 2		90
BR01 (1)	H	D02M2		1-02 *			KE-2346					SOURCE (KE-2)	2-0/8		90
BR01 (1)	H			1											90
BR02 (1)	H	D01C1		1-01 *			KF-2				1		N 1-4/8		91
BR02 (1)	H	D02K2		1-02 *			KE-2346					SOURCE (KE-2)	1-4/8		91
BR02 (1)	H			1											91
BR03 (1)	H	D01D1		1-01 *			KF-2				1		N 1-4/8		92
BR03 (1)	H	D02L2		1-02 *			KE-2346					SOURCE (KE-2)	1-4/8		92
BR03 (1)	H			1											92
BR04 (1)	H	B01J1		1-01 *			KF-2				1		N 7-1/8		93
BR04 (1)	H	D02U1		1-02 *			KE-2346					SOURCE (KE-2)	7-1/8		93
BR04 (1)	H			1											93
BR05 (1)	H	B01K1		1-01 *			KF-2				1		N 1-3/8		94
BR05 (1)	H	B02P2		1-02 *			KE-2346					SOURCE (KE-2)	1-3/8		94
BR05 (1)	H			1											94

WRAPD .V35(102)-1 03-JUN-77										27-Oct-77	16117	PAGE 9		RUN	
KD11A,N	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC LENGTH	EXCEPTIONS	NUMBER
RUN NAME		NAME	PIN	ORDER		OPT							FLAG		
BR06 (1)	H	B01L2		1-01 *			KF-2				1		N 7-3/8		95
BR06 (1)	H	E02B1		1-02 *			KE-236					SOURCE (KF-2)	7-3/8		95
BR06 (1)	H			1											95
BR07 (1)	H	B01L1		1-01 *			KF-2				1		N 11-7/8		96
BR07 (1)	H	F02P2		1-02 *			KE-236					SOURCE (KE-2)	11-7/8		96
BR07 (1)	H			1											96
BR08 (1)	H	D01E1		1-01 *			KF-2				1		N 7-1/8		97
BR08 (1)	H	F02L2		1-02 *			KE-23					SOURCE (KE-2)	7-1/8		97
BR08 (1)	H			1											97
BR09 (1)	H	D01F1		1-01 *			KF-2				1		N 6-5/8		98
BR09 (1)	H	F02L1		1-02 *			KE-23					SOURCE (KE-2)	6-5/8		98
BR09 (1)	H			1											98
BR10 (1)	H	D01M1		1-01 *			KF-2				1		N 6-5/8		99
BR10 (1)	H	F02M1		1-02 *			KE-23					SOURCE (KE-2)	6-5/8		99
BR10 (1)	H			1											99
BR11 (1)	H	D01J1		1-01 *			KF-2				1		N 6-5/8		100
BR11 (1)	H	F02P1		1-02 *			KE-23					SOURCE (KE-2)	6-5/8		100
BR11 (1)	H			1											100
BR12 (1)	H	B01M2		1-01 *			KF-2				1		N 9-3/8		101
BR12 (1)	H	F02U2		1-02 *			KE-23					SOURCE (KE-2)	9-3/8		101
BR12 (1)	H			1											101
BR13 (1)	H	B01M1		1-01 *			KF-2				1		N 9-3/8		102
BR13 (1)	H	E02U1		1-02 *			KE-23					SOURCE (KF-2)	9-3/8		102
BR13 (1)	H			1											102
BR14 (1)	H	B01N1		1-01 *			KF-2				1		N 4-1/8		103
BR14 (1)	H	C02T2		1-02 *			KE-236					SOURCE (KE-2)	4-1/8		103
BR14 (1)	H			1											103
BR15 (1)	H	B01P1		1-01 *			KF-2				1		N 3-7/8		104
BR15 (1)	H	C02S2		1-02 *			KE-2346					SOURCE (KE-2)	3-7/8		104
BR15 (1)	H			1											104
BRPTR (0)	H	B07M1		1-01 *			K4-5				2	SOURCE	N 3-7/8		105
BRPTR (0)	H	C06U2		1-02 *			K5-4				1		N 7-1/8		105
BRPTR (0)	H	F05D2		1-03 *			K3-7						11-0/8		105
BRPTR (0)	H			1											105
BRQ	L	A01S2		1-01 *			KF-4				1		N 6-1/8		106
BRQ	L	C05D1		1-02 *			K3-47				2		N 5-1/8		106
BRQ	L	D07M2		1-03 *			K4-6					SOURCE	11-2/8		106
BRQ	L			1											106
BRSV (0)	H	B06V2		1-01 *			K5-4				2	SOURCE	N 2-5/8		107
BRSV (0)	H	C07N2		1-02 *			K4-5				1		N 3-3/8		107
BRSV (0)	H	D07N1		1-03 *			K4-2								107
BRSV (0)	H			1									6-0/8		107

[illegible]

[illegible]

KD114.8		DRAWD .V35(102)-1		V3-JUN-77		27-Oct-77		16:17		PAGE 39		RUN					
RDN	NAME	A/P	PIN	ORDER	PAY -	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	NUMBER
			NAME	PIN	ORDER		OPI							FLAG			
IR06 (1)	H	D05R1		1-01 *			V3-3456				1		SOURCE (K3-3)	N	5-7/R		423
IR06 (1)	H	F04M1		1-02 *			K1-8				2			N	2-4/R		423
IR06 (1)	H	F08N1		1-03 *			KT-7										423
IR06 (1)	H			1											8-3/R		423
IR07 (1)	H	D05M2		1-01 *			V3-3456				1		SOURCE (K3-3)	N	5-5/R		424
IR07 (1)	H	F04M2		1-02 *			K1-8				2			N	2-5/R		424
IR07 (1)	H	F06M1		1-03 *			KT-7										424
IR07 (1)	H			1											8-2/R		424
IR08 (1)	H	C05K1		1-01 *			V3-3456				2		SOURCE (K3-3)	N	4-7/R		425
IR08 (1)	H	D06T2		1-02 *			K5-3				1			N	5-3/R		425
IR08 (1)	H	F04D1		1-03 *			K1-8				2			N	3-6/R		425
IR08 (1)	H	F08S2		1-04 *			KT-7										425
IR08 (1)	H			1											14-0/R		425
IR09 (1)	H	F02L2		1-01 *			KE-4				2			N	4-1/R		426
IR09 (1)	H	C05L1		1-02 *			K3-345				1		SOURCE (K3-3)	N	9-7/R		426
IR09 (1)	H	F08T1		1-03 *			KT-7										426
IR09 (1)	H			1											14-0/R		426
IR10 (1)	H	A02N2		1-01 *			KE-4				2			N	5-5/R		427
IR10 (1)	H	C05C1		1-02 *			K3-345				1		SOURCE (K3-3)	N	11-7/R		427
IR10 (1)	H	F08T2		1-03 *			KT-7										427
IR10 (1)	H			1											17-4/R		427
IR11 (1)	H	A02T2		1-01 *			KE-4				2			N	5-1/R		428
IR11 (1)	H	C05R1		1-02 *			K3-345				1		SOURCE (K3-3)	N	11-7/R		428
IR11 (1)	H	F08U2		1-03 *			KT-7										428
IR11 (1)	H			1											17-0/R		428
IR12 (1)	H	B05S1		1-01 *	1		K3-34				1		SOURCE (K3-3)	N	12-3/R		429
IR12 (1)	H	F08V2		1-02 *			KT-7										429
IR12 (1)	H			1											12-3/R		429
IR13 (1)	H	B05I1		1-01 *			K3-34				1		SOURCE (K3-3)	N	12-7/R		430
IR13 (1)	H	F08P2		1-02 *			KT-7										430
IR13 (1)	H			1											12-7/R		430
IR14 (1)	H	B05K1		1-01 *			K3-34				1		SOURCE (K3-3)	N	11-1/R		431
IR14 (1)	H	F08V2		1-02 *			KT-7										431
IR14 (1)	H			1											11-1/R		431
IR15	H	B05P2		1-01 *			K3-2479				1		SOURCE (K3-4)	N	5-3/R		432
IR15	H	F06L1		1-02 *			K5-3										432
IR15	H			1											5-3/R		432
IR15	L	A05R1		1-01 *			K3-469				1		SOURCE (K3-4)	N	7-5/R		433
IR15	L	C02H2		1-02 *			KE-4				2			N	5-5/R		433
IR15	L	D06M2		1-03 *			K5-3										433
IR15	L			1											13-2/R		433
IR15 (1)	H	C05M1					K3-345						SOURCE (K3-3)			1-PIN RUN	434

KD114	NAME	A/P	WAPD .V35(102)-1 PIN NAME	ORDER PIN	W3-JUN-77 PAY - ORDER	O	DRAW	RV	RG	Y	X	Z	REMARKS	27-Oct-77	16117 NC FLAG	PAGE 42 LENGTH EXCEPTIONS	RUN NUMBER
001 HIGH	H		D09K1		1-01 *			DD				1	SOURCE		N	3-3/8	466
OUT HIGH	H		E09M2		1-02 *			DD					SOURCE			3-3/8	466
OUT HIGH	H				1												466
OUT LOW	H		D09N1		1-01 *			DD				1	SOURCE		N	4	467
OUT LOW	H		E09N1		1-02 *			DD					SOURCE				467
OUT LOW	H				1											4-0/8	467
OVFL	H		A02V2		1-01 *			KE-4				1			N	7-5/8	468
OVFL	H		D01H2	E01E1	1-02 *			KF-4				2	SOURCE		N	2-7/8	468
OVFL	H		F01E1		1-03 *			KM-2									468
OVFL	H				1											10-4/8	468
OVFLA EFF	L		F06M1		1-01 *			K5-4				1			N	9-3/8	469
OVFLX FRP	L		E07S2		1-02 *			K4-34					SOURCE (K4-4)			9-3/8	469
OVFLW EFF	L				1												469
OVFLW IFF	L		F03R2					KJ-2								1-PIN RUN	470
OVLP (1)	H		C06S1		1-01 *			K5-4				2	SOURCE		N	2-3/8	471
OVLP (1)	H		D07D1		1-02 *			K4-5				1			N	3-7/8	471
OVLP (1)	H		E05D1		1-03 *			K3-7				2			N	4-7/8	471
OVLP (1)	H		F07J2		1-04 *			K4-2									471
OVLP (1)	H				1											11-1/8	471
OVLP CYCLE	L		A07N1		1-01 *			K4-4				1			N	6-7/8	472
OVLP CYCLE	L		C05P1		1-02 *			K3-4					SOURCE			6-7/8	472
OVLP CYCLE	L				1												472
OVLP INSTR	H		C05P1		1-01 *			K3-4				1	SOURCE		N	2-5/8	473
OVLP INSTR	H		D06F2		1-02 *			K5-4								2-5/8	473
OVLP INSTR	H				1												473
P OUT 37	H		C06P2					K5-46					SOURCE (K5-6)			1-PIN RUN	474
P CLK UPPER	H		F03R1		1-01 *			K4-2				1			N	5-3/8	475
P CLK UPPER	H		C02V1		1-02 *			KE-5					SOURCE			5-3/8	475
P CLK UPPER	H				1												475
P CLK MSYN	L		F07K2		1-01 *	1		K4-45				1	SOURCE (K4-4)		N	7-1/8	476
P CLK MSYN	L		D08V1		1-02 *			KT-9								7-1/8	476
P CLK MSYN	L				1												476
P END	H		C02P1		1-01 *			KE-59				1			N	4	477
P END	H		D07P1	E04F2	1-02 *			K4-2				2	SOURCE		N	2-6/8	477
P END	H		E04F2		1-03 *			K1-9								6-6/8	477
P END	H				1												477
P ENDRESET	L		F06J1		1-01 *			K5-8				1	SOURCE		N	11-7/8	478
P ENDRESET	L		F07N1		1-02 *			K4-2									478
P ENDRESET	L				1											11-7/8	478
P ESTART	L		F07M2					K4-2								1-PIN RUN	479
P JAMSTART	H		D07L1					K4-236					SOURCE (K4-3)			1-PIN RUN	480

*KAPD .V35(102)-1 03-JUN-77										27-Oct-77	16117	PAGE 44			
KD11A,N RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	PV	RG	Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
PBA08	H	AM8N1		1-01 *	1		KT-4				1	SOURCE	N 10-1/8		495
PBA08	H	EO8D2		1-02 *			KT-6				2		N 5-3/8		495
PBA08	H	EO1S2		1-03 *			KM-2								495
PBA08	H			1									15-4/8		495
PBA09	H	AM8M2		1-01 *	1		KT-4				1	SOURCE	N 9-3/8		496
PBA09	H	DO8V2		1-02 *			KT-6				2		N 6-1/8		496
PBA09	H	EO1P1		1-03 *			KM-2								496
PBA09	H			1									15-4/8		496
PBA10	H	EO8R1		1-01 *			KT-4				1	SOURCE	N 12-5/8		497
PBA10	H	EO1T1		1-02 *			KM-2								497
PBA10	H			1									12-5/8		497
PBA11	H	AM8V2		1-01 *			KT-4				1	SOURCE	N 8-3/8		498
PBA11	H	DO8U2		1-02 *			KT-6				2		N 5-1/8		498
PBA11	H	EO1P1		1-03 *			KM-2								498
PBA11	H			1									13-4/8		498
PBA12	H	AM8T2		1-01 *			KT-4				1	SOURCE	N 13-5/8		499
PBA12	H	EO1J1		1-02 *			KM-2								499
PBA12	H			1									13-5/8		499
PBA13	H	AM8U2		1-01 *			KT-4				1	SOURCE	N 12-7/8		500
PBA13	H	EO1C1		1-02 *			KM-2								500
PBA13	H			1									12-7/8		500
PBA14	H	EO8S1		1-01 *			KT-4				1	SOURCE	N 11-3/8		501
PBA14	H	EO1T2		1-02 *			KM-2								501
PBA14	H			1									11-3/8		501
PBA15	H	EO8A1		1-01 *			KT-4				1	SOURCE	N 9-7/8		502
PBA15	H	EO1K2		1-02 *			KM-2								502
PBA15	H			1									9-7/8		502
PBA16	H	EO8U2		1-01 *			KT-4				1	SOURCE	N 11-1/8		503
PBA16	H	EO1M1		1-02 *			KM-2								503
PBA16	H			1									11-1/8		503
PBA17	H	EO8S2		1-01 *			KT-4				1	SOURCE	N 12-1/8		504
PBA17	H	EO1V1		1-02 *			KM-2								504
PBA17	H			1									12-1/8		504
PERF RELEASE	H	DO7A1					K4-25					SOURCE (K4-5)		1-PIN RUN	505
PERF (M)	H	EO7U1		1-01 *			K4-3				1	SOURCE	N 11-3/8		506
PERF (M)	H	EO6V1		1-02 *			K5-5								506
PERF (M)	H			1									11-3/8		506
PRIV INSTE	L	EO5M1		1-01 *			K3-6				1	SOURCE	N 4-7/8		507
PRIV INSTE	L	EO8P1		1-02 *			KT-7								507
PRIV INSTE	L			1									4-7/8		507
PROD RELEASE	L	AO7M2					K4-45					SOURCE (K4-5)		1-PIN RUN	508

*KAPD .V35(102)-1 03-JUN-77										27-Oct-77	16117	PAGE 45	RUN		
KD11A,N RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	PV	RG	Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
PROD RESCAN	H	AO7S1					K4-6					SOURCE		1-PIN RUN	509
PS ADPS	H	AO7E2		1-01 *			K4-6				1		N 9-1/8		510
PS ADPS	H	EO6S2		1-02 *			K5-2				2		N 2		510
PS ADPS	H	EO4D1		1-03 *			K1-7				1	SOURCE	N 2-7/8		510
PS ADPS	H	EO8F2		1-04 *			KT-6				2	SOURCE	N 2-5/8		510
PS ADPS	H	EO5V2		1-05 *			K3-7								510
PS ADPS	H			1									16-5/8		510
PS(C)	H	AO5P2		1-01 *			K3-89				1		N 3-7/8		511
PS(C)	H	EO7R1		1-02 *			K1-5				2		N 5-5/8		511
PS(C)	H	EO6F1		1-03 *			K5-2				1	SOURCE	N 8-7/8		511
PS(C)	H	EO1P2		1-04 *			KM-2								511
PS(C)	H			1									18-3/8		511
PS(C) (1)	H	AO5D1		1-01 *			K3-8				1		N 14-3/8		512
PS(C) (1)	H	EO6H1		1-02 *			K5-23				2	SOURCE (K5-2)	N 2-7/8		512
PS(C) (1)	H	EO1T2		1-03 *			KM-2								512
PS(C) (1)	H			1									17-2/8		512
PS(C) (K4-5)	H	EO7E1		1-01 *			K4-6				1	SOURCE	N 8-5/8		513
PS(C) (K4-5)	H	EO6F1		1-02 *			K5-2								513
PS(C) (K4-5)	H			1									8-5/8		513
PS(C) (K4-5)	H	EO7D1		1-01 *			K4-2				2	SOURCE	N 1		514
PS(C) (K4-5)	H	EO6D1		1-02 *			K5-2				1		N 2-2/8		514
PS(C) (K4-5)	H	EO8S2		1-03 *			KT-29								514
PS(C) (K4-5)	H			1									3-2/8		514
PS(T) (1)	H	EO5S2		1-01 *			K3-7				2		N 2-7/8		515
PS(T) (1)	H	EO6J2		1-02 *			K5-2				1	SOURCE	N 3		515
PS(T) (1)	H	EO1J2		1-03 *			KM-2								515
PS(T) (1)	H			1									5-7/8		515
PS(V) (1)	H	EO6L1		1-01 *			K5-23				1	SOURCE (K5-2)	N 3-6/8		516
PS(V) (1)	H	EO1F2		1-02 *			KM-2								516
PS(V) (1)	H			1									3-6/8		516
PS(Z) (1)	H	EO6M1		1-01 *			K5-23				1	SOURCE (K5-2)	N 3-7/8		517
PS(Z) (1)	H	EO1H1		1-02 *			KM-2								517
PS(Z) (1)	H			1									3-7/8		517
PS05 (1)	H	EO7E1		1-01 *			K4-6				1		N 7-5/8		518
PS05 (1)	H	EO6F1		1-02 *			K5-2					SOURCE			518
PS05 (1)	H			1									7-5/8		518
PS06 (1)	H	EO7K2		1-01 *			K4-6				1		N 8-1/8		519
PS06 (1)	H	EO6R1		1-02 *			K5-2					SOURCE			519
PS06 (1)	H			1									8-1/8		519
PS07 (1)	H	EO7R2		1-01 *			K4-6				1		N 8-5/8		520
PS07 (1)	H	EO6P2		1-02 *			K5-2					SOURCE			520
PS07 (1)	H			1									8-5/8		520
PS12 (1)	H	CO8D1					KT-2					SOURCE		1-PIN RUN	521

RD11A.N	RAPD .V35(102)-1 03-JUN-77										27-Oct-77	16:17	PAGE 48	RUN		
RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC FLAG	LENGTH	EXCEPTIONS	NUMBER
ROMA (1)	H	D08L1		1-01 *			KT-2				1	SOURCE	N	5-2/8		551
ROMA (1)	H	E01P2		1-02 *			KM-2									551
ROMA (1)	H			1										5-2/8		551
ROMB (1)	H	D08M1		1-01 *			KT-2				1	SOURCE	N	5		552
ROMB (1)	H	E01U2		1-02 *			KM-2									552
ROMB (1)	H			1										5-0/8		552
ROMC (1)	H	D06P1		1-01 *			KT-2				1	SOURCE	N	5-1/8		553
ROMC (1)	H	E01D1		1-02 *			KM-2									553
ROMC (1)	H			1										5-1/8		553
ROMD (1)	H	D08S1		1-01 *			KT-2				1	SOURCE	N	5-7/8		554
ROMD (1)	H	E01M1		1-02 *			KM-2									554
ROMD (1)	H			1										5-7/8		554
RSVD T1STP	L	C06F1		1-01 *			K5-5				2		N	3-6/8		555
RSVD T1STP	L	D02C1		1-02 *			KE-5				1		N	4-3/8		555
RSVD T1STP	L	E05C1		1-03 *			K3-6					SOURCE				555
RSVD T1STP	L			1										8-1/8		555
S HOOK	H	F08H2		1-01 *			KT-9				1	SOURCE	N	3-4/8		556
S HOOK	H	F04A1		1-02 *			K1-8									556
S HOOK	H			1										3-4/8		556
SALUM (1)	H	A05F2		1-01 *			K3-8				1		N	8-1/8		557
SALUM (1)	H	C03U2		1-02 *			K2-6					SOURCE				557
SALUM (1)	H			1										8-1/8		557
SALU1 (1)	H	A05F1		1-01 *			K3-8				1		N	7-5/8		558
SALU1 (1)	H	C03T2		1-02 *			K2-6					SOURCE				558
SALU1 (1)	H			1										7-5/8		558
SALU2 (1)	H	A05F1		1-01 *			K3-8				1		N	7-3/8		559
SALU2 (1)	H	C03P2		1-02 *			K2-6					SOURCE				559
SALU2 (1)	H			1										7-3/8		559
SALU3 (1)	H	A05D2		1-01 *			K3-8				1		N	7-5/8		560
SALU3 (1)	H	C03W2		1-02 *			K2-6									560
SALU3 (1)	H			1										7-5/8		560
SALUM (1)	H	A05H1		1-01 *			K3-8				1		N	8-5/8		561
SALUM (1)	H	E03E1		1-02 *			K2-6					SOURCE				561
SALUM (1)	H			1										8-5/8		561
SRAM (1)	H	A04J1		1-01 *			K1-2145				1		N	5-7/8		562
SRAM (1)	H	C03J2		1-02 *			K2-5					SOURCE				562
SRAM (1)	H			1										5-7/8		562
SRCD (1)	H	D03D1		1-01 *			K2-6				1	SOURCE	N	4-7/8		563
SRCD (1)	H	E06J1		1-02 *			K5-5									563
SRCD (1)	H			1										4-7/8		563
SRCL (1)	H	C03R2		1-01 *			K2-6				1	SOURCE	N	9-7/8		564
SRCL (1)	H	E06R2		1-02 *			K5-5									564
SRCL (1)	H			1										9-7/8		564

KD11A,N RUN NAME	A/P	WRAED .V35(102)-1		03-JUN-77		DRAW	RV	RG	Y	X	Z	REMARKS	27-Oct-77	16117	PAGE 52	RUN NUMBER
		PIN NAME	ORDER PIN	BAY - ORDER	Q								NC	LENGTH	EXCEPTIONS	
STALL (0)	H	C06M1		1-01 *			K5-4				2	SOURCE	N	1-3/8		606
STALL (0)	H	C07H2		1-02 *			K4-4				1		N	3-3/8		606
STALL (0)	H	D08F1		1-03 *			KT-3							4-6/8		606
STALL (0)	H			1												606
START SW (0)	H	A06R1		1-01 *			K5-7				1	SOURCE	N	15-7/8		607
START SW (0)	H	F07U1		1-02 *			K4-3							15-7/8		607
START SW (0)	H			1												607
SWICH (1)	H	A06R2		1-01 *			K5-6				1	SOURCE	N	13-3/8		608
SWICH (1)	H	F05J2		1-02 *			K3-2							13-3/8		608
SWICH (1)	H			1												608
T14 (1)	H	D08A1					KT-2					SOURCE			1-PIN RUN	609
T15 (1)	H	D06F1					KT-2					SOURCE			1-PIN RUN	610
TDATA (0)	H	D07N2					K4-6					SOURCE			1-PIN RUN	611
IPACE	L	B06M2		1-01 *			K5-45				1	SOURCE	N	12-1/8		612
IPACE	L	F05S1		1-02 *			K3-7							12-1/8		612
IPACE	L			1												612
TRAF	L	B06S1		1-01 *			K5-5				1	SOURCE	N	7-3/8		613
TRAF	L	F05E1		1-02 *			K3-6							7-3/8		613
TRAF	L			1												613
TRAF (1)	H	D06H1		1-01 *			K5-4				1	SOURCE	N	7-5/8		614
TRAF (1)	H	F01D1		1-02 *			KM-2							7-5/8		614
TRAF (1)	H			1												614
TRAFS DATA	L	B06N2		1-01 *			K5-4				1	SOURCE	N	5-5/8		615
TRAFS DATA	L	D05H2		1-02 *			K3-6							5-5/8		615
TRAFS DATA	L			1												615
TRUE RR	L	D05L1		1-01 *			K3-5				1	SOURCE	N	1-2/8		616
TRUE RR	L	D06F1		1-02 *			K5-3							1-2/8		616
TRUE RR	L			1												616
ISACK (0)	H	D07J1					K4-6					SOURCE			1-PIN RUN	617
URF0 (1)	H	C03F2		1-01 *			K2-5				2	SOURCE	N	2-2/8		618
URF0 (1)	H	C06N1		1-02 *			K5-34				1		N	6-5/8		618
URF0 (1)	H	F05S1	B07L1	1-03 *			K3-2				2		N	9-7/8		618
URF0 (1)	H	D07L1		1-04 *			K4-3							18-6/8		618
URF0 (1)	H			1												618
URF1 (1)	H	C03P1		1-01 *			K2-5				2	SOURCE	N	2-3/8		619
URF1 (1)	H	C06N2		1-02 *			K5-34				1		N	6-5/8		619
URF1 (1)	H	F05P1		1-03 *			K3-2							9-0/8		619
URF1 (1)	H			1												619
URF2 (1)	H	C03R1		1-01 *			K2-5				2	SOURCE	N	2-1/8		620
URF2 (1)	H	C06F2		1-02 *			K5-34				1		N	6-1/8		620
URF2 (1)	H	F05N1		1-03 *			K3-2							8-2/8		620
URF2 (1)	H			1												620

MAYNARD, MASSACHUSETTS

MADE BY <i>JF O'Loughlin</i>	CHECKED <i>JF O'Loughlin</i>	SECTION
DATE <i>9/26/72</i>	DATE <i>9/27/72</i>	
ENG <i>JF O'Loughlin</i>	PROD <i>JF O'Loughlin</i>	ISSUED SECT.
DATE <i>9/27/72</i>	DATE <i>9-27-72</i>	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
----------	--------------------	-------------

1	D-CS-M7237-Ø-1	STACK LIMIT REGISTER
---	----------------	----------------------

2	D-MU-KD11-A-MU	MODULE UTILIZATION
---	----------------	--------------------

TITLE	STACK LIMIT REGISTER (PL)
-------	---------------------------

ASSY NO.

SHEET 1 OF 1

SIZE	CODE
A	PL

NUMBER
KJ11-A-Ø

REV.	ECONO
------	-------

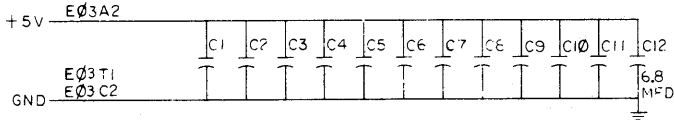
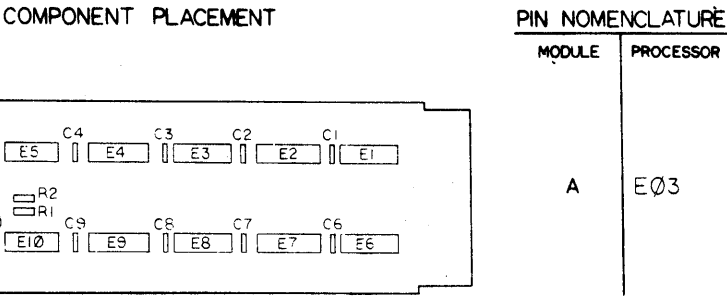
DIST

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 in the manufacture of any part of this equipment without written permission.

PARTS REFERENCE				
ITEM NO.	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1 E6	DEC 5384	IC 1910394	2
2	E2 E7	DEC 74175	IC 1910651	2
3	E3 E8	DEC 8381	IC 1909705	2
4	E4 E9	DEC 7485	IC 1910224	2
5	E5 E10	DEC 74H00	IC 1909056	1
6	E6 E11	DEC 74H20	IC 1905635	1
7	E7 E12	DEC 7425	IC 1910155	1
8	C1 THRU C11	.01 MFD 100V 20% CAP	1001610	11
9	C12	6.8 MFD 35V 20% CAP	1000067	1
10	R1 R2	1K 1/4W 5% RES	1300365	2
REF	STACK LIMIT REGISTER		A-PL-M7237-0-0	

- NOTES:
- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
 - ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED; MULTIPLE NOTATIONS OF THE SAME SIGNALS WITHIN A MODULE HAVE THE PIN NOTED ON EACH. AN INPUT SIGNAL IS NOTED ONLY ONCE PER SHEET UNLESS SEPERATE PINS ARE USED; MULTIPLE INPUTS ARE CONNECTED. MODULE OUTPUT SIGNALS ARE BROUGHT TO THE EXTREME RIGHT OF EACH SHEET
 - KJ11 SIGNAL SOURCE NOTATION (K1-2, FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE FROM THE PROCESSOR. FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THESE SIGNALS CAN EXIST.
 - UNLESS OTHERWISE SPECIFIED: RESISTANCE IS IN OHMS
 - DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM. CAPACITORS WITHOUT NOTED VALUES ARE .01 MFD.
 - GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY. EXCEPTIONS ARE:

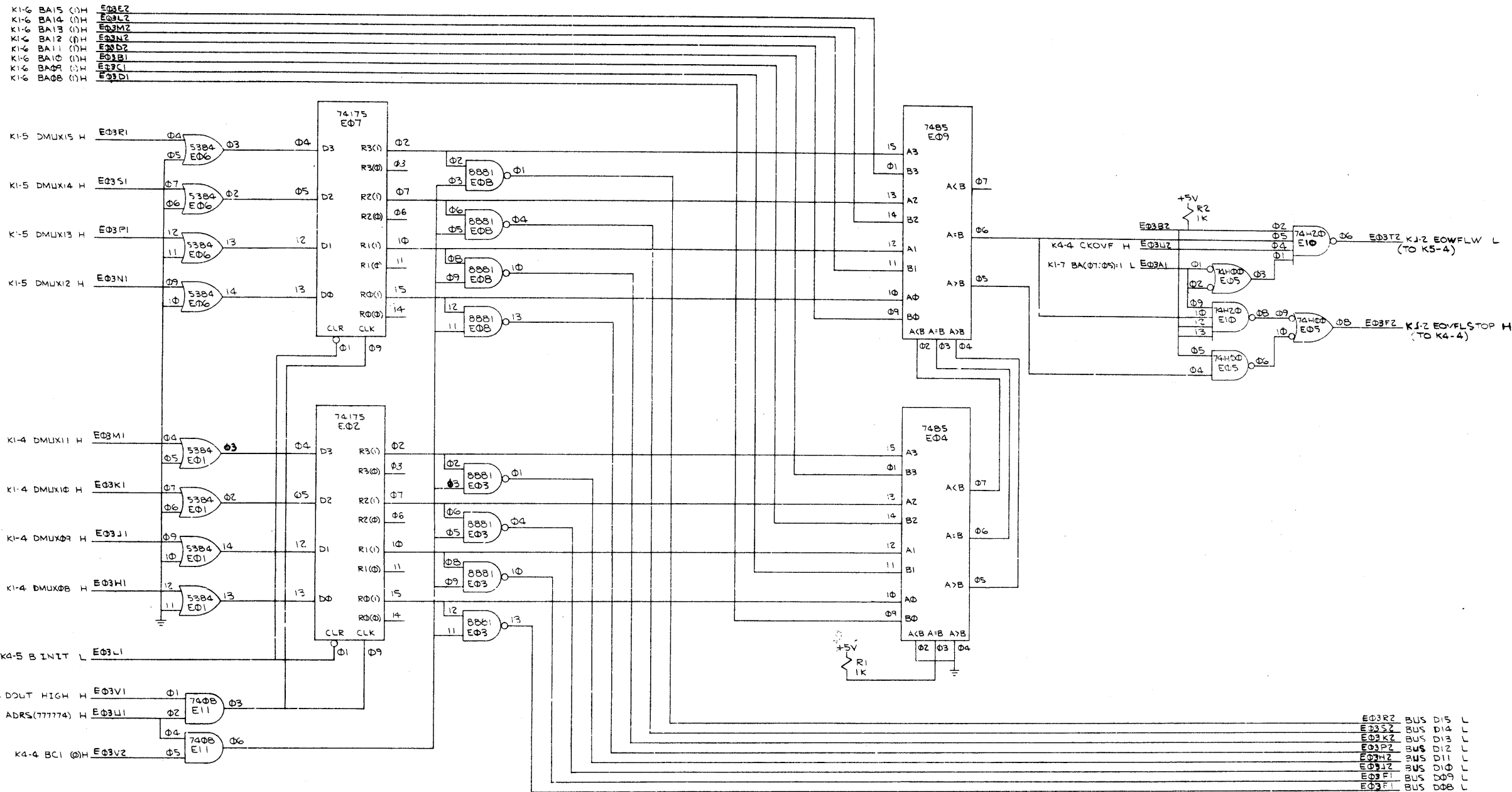
IC TYPE	GND	+5V
DEC 5384	PIN 1	PIN 8
DEC 74175	PIN 8	PIN 16



REV	CHG	NO.
B		
A		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

FIRST USED ON OPTION 7 MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11/35				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	digital EQUIPMENT CORPORATION	
TOLERANCES	ENG	DATE	TAYLOR HARRISON	
DECIMALS FRACTIONS ANGLES	PROD	DATE	STACK LIMIT REGISTER	
± .005 ± 1/64 ± 0°30'			M7237	
FINAL SURFACE QUALITY			DICS M7237-0-1	
REMOVE BURRS AND BREAK SHARP CORNERS			KJ-1	
MATERIAL			REV B	
FINISH				
SCALE				
SHEET				

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.



EΦ3R2 BUS D15 L
EΦ3S2 BUS D14 L
EΦ3K2 BUS D13 L
EΦ3P2 BUS D12 L
EΦ3H2 BUS D11 L
EΦ3J2 BUS D10 L
EΦ3F1 BUS D09 L
EΦ3F1 BUS D08 L

REV	CHANGE NO	CHK

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11/35					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN W. MAJOR	DATE 7/22/71	PARTS LIST	
DECIMALS		CHKD J. MAJOR	DATE 2-7-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ANGLES		ENG J. MAJOR	DATE 5-23-72	TITLE STACK LIMIT REGISTER	
XXX = .006 XX = .02 X = .1		PROBNG J. MAJOR	DATE 5-23-72	M7237 KJ-2	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PRODN J. MAJOR	DATE 5/27/72	SIZE CODE D CS	
MATERIAL		NEXT HIGHER ASSY.		NUMBER M7237-0-1	
FINISH		SCALE		REV B	
		SHEET 2 OF 2		DIST	

SOFTWARE LIST

D	DOCUMENT
DN	DOCUMENT CHANGE NOTICE
PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
PM	PAPER TAPE READ-IN-MODE

QUANTITY / VARIATION

MADE BY	J. J. Dougherty
DATE	9/26/72
ENG	J. J. Dougherty
DATE	9/27/72

CHECKED	W. Hough
DATE	8/27/72
PROD	825 rings
DATE	7-28-72

SECTION

ISSUED SECT.

[illegible]

KJ11-A

KIT CHECK

BY _____ DATE _____

INSTALLATION CHECK

BY _____ DATE _____

TITLE

STACK LIMIT REGISTER

ASSY. NO.

SHEET 1 OF 1

SIZE	CODE
------	------

A SL

DIST.

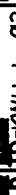
NUMBER

KJ11-A-SL

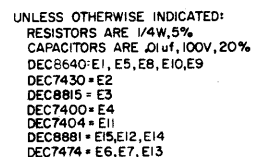
REV.	ECONO
------	-------

DEC 16-(325)-1062-2-N871

A



FAST USED TO IDENTIFY MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
KW11-L									
1. TO BE FILLED IN BY USER UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DIMENSIONAL FINISHES IN .001 IN .005 IN .010 TYPICAL SURFACE QUALITY FINISHES MATTE AND BRUSH BRASS FINISHES				PARTS LIST TITLE		EQUIPMENT CORPORATION BATHING, MASSACHUSETTS			
MATERIAL //		DATE <i>11/10/70</i> TIME <i>7:15 PM</i> BY <i>Joe Felt</i> FOR <i>Mr. [illegible]</i> <i>Time Draw</i>		DATE <i>11/10/70</i> TIME <i>7:15 PM</i> BY <i>Joe Felt</i> FOR <i>Mr. [illegible]</i> <i>Time Draw</i>		TIMING DIAGRAM (KW11-L)			
PARTS //		NEXT HIGHWAY ASSY A-ML-KW11-L		SCALE 1" = 1"		SIZE CODE D TD		NUMBER KW11-L-02	
PARTS //		SHEET 1 OF 1		DATE 11/10/70		TIME 7:15 PM		BY Joe Felt	



PIN 7 = GND ON E2, E3, E4, E11, E12, E14, E13, E7, E15, E6

1 DEC 8640 REPLACES THE
OBSOLETE DEC 380

REVISIONS DATE AND REV 00001 A 00002 B 00003 C 00004 D 00005 E 00006 F 00007 G 00008 H 00009 I 00010 J 00011 K 00012 L 00013 M 00014 N 00015 O 00016 P 00017 Q 00018 R 00019 S 00020 T 00021 U 00022 V 00023 W 00024 X 00025 Y 00026 Z 00027 AA 00028 AB 00029 AC 00030 AD 00031 AE 00032 AF 00033 AG 00034 AH 00035 AI 00036 AJ 00037 AK 00038 AL 00039 AM 00040 AN 00041 AO 00042 AP 00043 AQ 00044 AR 00045 AS 00046 AT 00047 AU 00048 AV 00049 AW 00050 AX 00051 AY 00052 AZ 00053 BA 00054 BB 00055 BC 00056 BD 00057 BE 00058 BF 00059 BG 00060 BH 00061 BI 00062 BJ 00063 BK 00064 BL 00065 BM 00066 BN 00067 BO 00068 BP 00069 BQ 00070 BR 00071 BS 00072 BT 00073 BU 00074 BV 00075 BW 00076 BX 00077 BY 00078 BZ 00079 CA 00080 CB 00081 CC 00082 CD 00083 CE 00084 CF 00085 CG 00086 CH 00087 CI 00088 CJ 00089 CK 00090 CL 00091 CM 00092 CN 00093 CO 00094 CP 00095 CQ 00096 CR 00097 CS 00098 CT 00099 CU 00100 CV 00101 CW 00102 CX 00103 CY 00104 CZ 00105 DA 00106 DB 00107 DC 00108 DD 00109 DE 00110 DF 00111 DG 00112 DH 00113 DI 00114 DJ 00115 DK 00116 DL 00117 DM 00118 DN 00119 DO 00120 DP 00121 DQ 00122 DR 00123 DS 00124 DT 00125 DU 00126 DV 00127 DW 00128 DX 00129 DY 00130 DZ 00131 EA 00132 EB 00133 EC 00134 ED 00135 EE 00136 EF 00137 EG 00138 EH 00139 EI 00140 EJ 00141 EK 00142 EL 00143 EM 00144 EN 00145 EO 00146 EP 00147 EQ 00148 ER 00149 ES 00150 ET 00151 EU 00152 EV 00153 EW 00154 EX 00155 EY 00156 EZ 00157 FA 00158 FB 00159 FC 00160 FD 00161 FE 00162 FF 00163 FG 00164 FH 00165 FI 00166 FJ 00167 FK 00168 FL 00169 FM 00170 FN 00171 FO 00172 FP 00173 FQ 00174 FR 00175 FS 00176 FT 00177 FU 00178 FV 00179 FW 00180 FX 00181 FY 00182 FZ 00183 GA 00184 GB 00185 GC 00186 GD 00187 GE 00188 GF 00189 GG 00190 GH 00191 GI 00192 GJ 00193 GK 00194 GL 00195 GM 00196 GN 00197 GO 00198 GP 00199 GQ 00200 GR 00201 GS 00202 GT 00203 GU 00204 GV 00205 GW 00206 GX 00207 GY 00208 GZ 00209 HA 00210 HB 00211 HC 00212 HD 00213 HE 00214 HF 00215 HG 00216 HH 00217 HI 00218 HJ 00219 HK 00220 HL 00221 HM 00222 HN 00223 HO 00224 HP 00225 HQ 00226 HR 00227 HS 00228 HT 00229 HU 00230 HV 00231 HW 00232 HX 00233 HY 00234 HZ 00235 IA 00236 IB 00237 IC 00238 ID 00239 IE 00240 IF 00241 IG 00242 IH 00243 II 00244 IJ 00245 IK 00246 IL 00247 IM 00248 IN 00249 IO 00250 IP 00251 IQ 00252 IR 00253 IS 00254 IT 00255 IU 00256 IV 00257 IW 00258 IX 00259 IY 00260 IZ 00261 JA 00262 JB 00263 JC 00264 JD 00265 JE 00266 JF 00267 JG 00268 JH 00269 JI 00270 JJ 00271 JK 00272 JL 00273 JM 00274 JN 00275 JO 00276 JP 00277 JQ 00278 JR 00279 JS 00280 JT 00281 JU 00282 JV 00283 JW 00284 JX 00285 JY 00286 JZ 00287 KA 00288 KB 00289 KC 00290 KD 00291 KE 00292 KF 00293 KG 00294 KH 00295 KI 00296 KJ 00297 KK 00298 KL 00299 KM 00300 KN 00301 KO 00302 KP 00303 KQ 00304 KR 00305 KS 00306 KT 00307 KU 00308 KV 00309 KW 00310 KX 00311 KY 00312 KZ 00313 LA 00314 LB 00315 LC 00316 LD 00317 LE 00318 LF 00319 LG 00320 LH 00321 LI 00322 LJ 00323 LK 00324 LL 00325 LM 00326 LN 00327 LO 00328 LP 00329 LQ 00330 LR 00331 LS 00332 LT 00333 LU 00334 LV 00335 LW 00336 LX 00337 LY 00338 LZ 00339 MA 00340 MB 00341 MC 00342 MD 00343 ME 00344 MF 00345 MG 00346 MH 00347 MI 00348 MJ 00349 MK 00350 ML 00351 MM 00352 MN 00353 MO 00354 MP 00355 MQ 00356 MR 00357 MS 00358 MT 00359 MU 00360 MV 00361 MW 00362 MX 00363 MY 00364 MZ 00365 NA 00366 NB 	
--	--

PARTS LIST

QUANTITY / VARIATION

ISSUED SECT.

DESCRIPTION

LINE TIME CLOCK INTERRUPT

Y

DIST.

SOFTWARE LIST

D	DOCUMENT
DN	DOCUMENT CHANGE NOTICE
PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
PM	PAPER TAPE READ-IN-MODE

QUANTITY / VARIATION

ISSUED SECT.

PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
PM	PAPER TAPE READ-IN-MODE

[illegible]

REV.	ECO NO
★	

W130 PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	R1,R3,R5,R7,R9,R11,R13,R15,R17,R19,R21,R23,R25,R27,R29,R31,R33,R35,R37,R39,R41,R43,R45,R47,R49,R51,R53,R55	15K, 1/4W, 5%	RES. 1300496	28
2	R2,R4,R6,R8,R10,R12,R14,R16,R18,R20,R22,R24,R26,R28,R30,R32,R34,R36,R38,R40,R42,R44,R46,R48,R50,R52,R54,R56	470, 1/4W, 5%	RES. 1300316	28
3	Q1-Q56	DEC 3009B TRANSISTOR	1503100	56
4	PI	H607 BLOCK, CONNECTOR	1209123	1

W131 PARTS REFERENCE

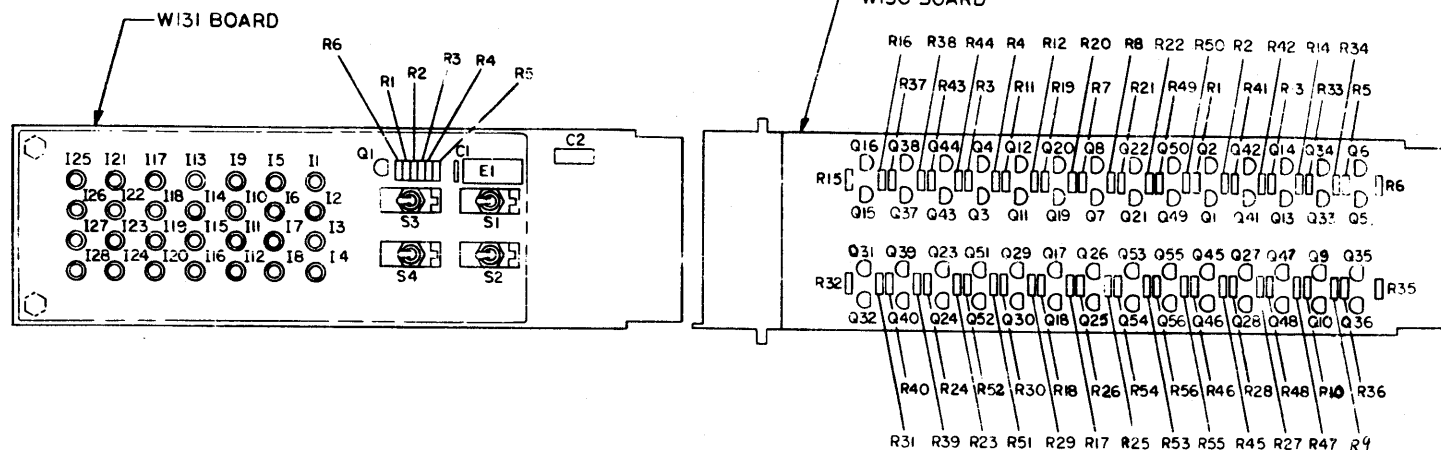
ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1	DEC 7400N L.C.	1905575	1
2	C1	.01 MFD, 100V, 20% DC CAP.	1001610	1
3	C2	6.8 MFD, 35V, 20% ST. CAP.	1000067	1
4	R1,R2,R3,R4,R5	3K, 1/4W, 5%	RES. 1300432	5
5	R6	330, 1/4W, 5%	RES. 1300295	1
6	Q1	DEC 3009B TRANSISTOR	1503100	1
7	I1-I28	LAMP, HUDSON, BLUE *2309G	1209219	28
8	S1-S4	SWITCH, TOGGLE, SPST, 6AT-12	1201163	4

NOTES:

- THE KM11 IS A TWO MODULE (W130, W131) OPTION TO THE K111 TO AID MAINTENANCE. THIS PREWIRED OPTION IS INSTALLED BY INSERTING THE W130 MODULE INTO LOCATION B02 AND INSERTING THE W131 MODULE INTO THE W130. NOTE THAT THE SWITCHES AND LIGHTS FACE TOWARD AND EXTEND BELOW THE CONSOLE. THE BOTTOM COVER MUST BE REMOVED WITH THE CHASSIS EXTERNAL TO THE CABINET.
- LABELS FOR THE INTERNAL MACHINE STATES LAMPS ARE NOTED ON THE W131 ETCH BOARD. SWITCHES PROVIDE A MANUAL CLOCK AND BUS RESPONSE AND ARE ACTIVE WHEN THE TOGGLE IS TOWARD THE NAME. NORMAL MACHINE OPERATION REQUIRES THAT ALL SWITCHES BE IN THE OFF POSITION.
- "M CLK ENABLE" AND "M CLK" PROVIDE A MANUAL CLOCK FOR THE K111. "M CLK ENABLE" IS ACTIVATED WHILE THE PROCESSOR IS HALTED. EACH TOGGLE OF "M CLK" THEN STEPS THE PROCESSOR THROUGH THE SMALLEST PROCESSOR CLOCK INTERVALS, THE R/W STATES, THE NEXT HIGHEST CLOCK INTERVAL (S CLK) IS PROVIDED BY FOUR TOGGLES (2 COMPLETE SWITCH CYCLES) AND INDICATED BY THE R/W2 LAMP. R/W2 IS THE LAST (OR REST) R/W STATE IN A "S CLK" INTERVAL. NORMAL OPERATION IS RESUMED WHEN "M CLK" AND THEN "M CLK ENABLE" ARE RETURNED TO OFF.
- "NO TIME OUT" AND "SSYN" PROVIDE A MANUAL BUS RESPONSE TO THE PROCESSOR. IT IS USED WHEN OTHER DEVICES ARE NOT AVAILABLE. "NO TIME OUT" IS ACTIVATED, WHILE THE PROCESSOR IS HALTED, TO ELIMINATE AN ERROR TRAP ON MANUAL "SSYN" AT THE APPROPRIATE TIMES IN A BUS TRANSFER "SSYN" IS ACTIVATED AND DEACTIVATED.

COMPONENT PLACEMENT

PIN NOMENCLATURE



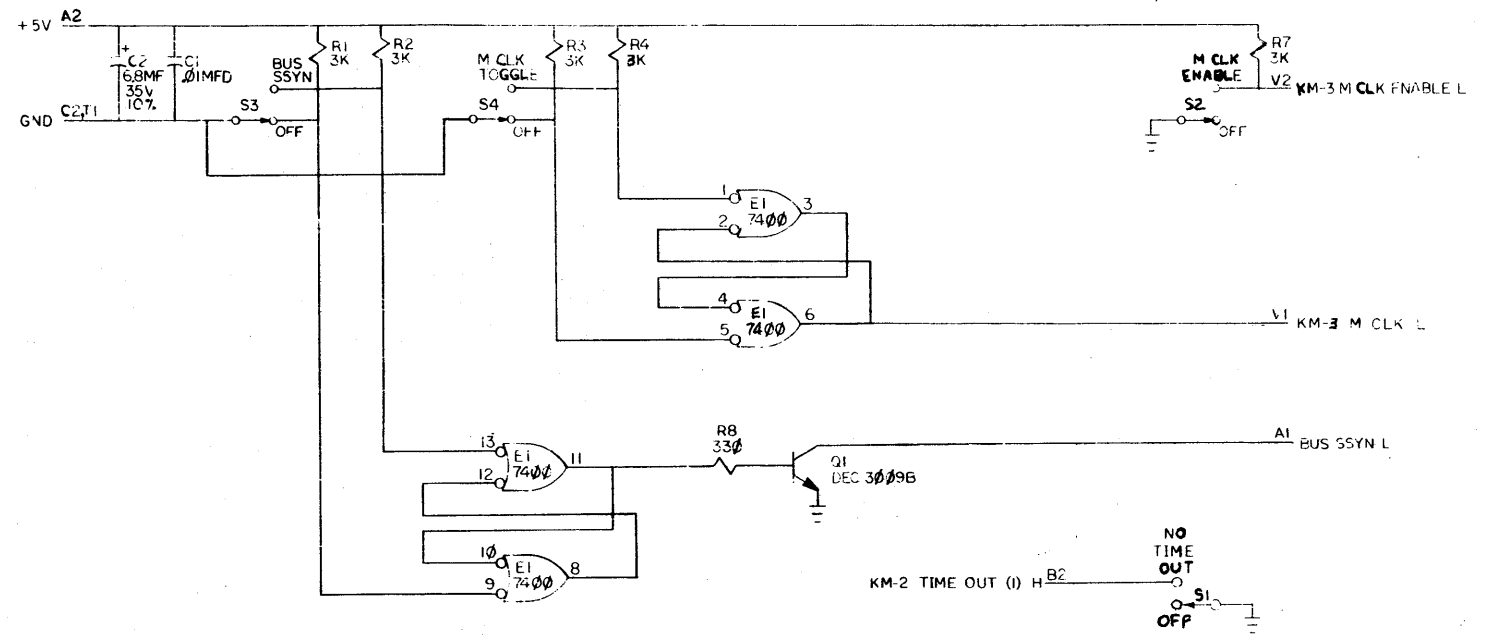
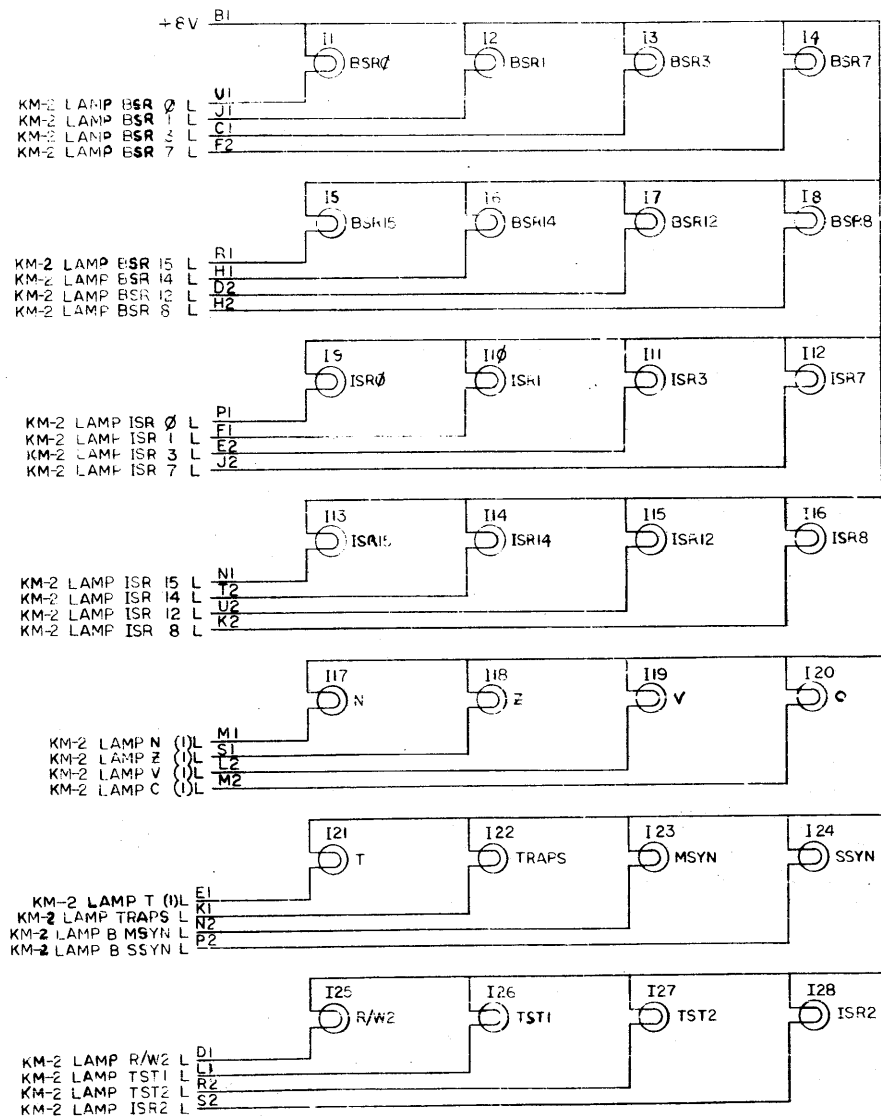
REV	CHANGE NO.
1	1

FIRST USED ON OPTION/ MODEL
PDPII

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMAL FRACTIONS ANGLES
± .005 ± 1/64 ± .030
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE MAINTENANCE BOARD (182) KM-1			
SIZE CODE NUMBER REV. DBSKM11-0-MB			
SCALE 1/1 SHEET 1 OF 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.



REV	CHANGE NO	CHK
1	1	1

FIRST USED ON OPTION/MODEL PDP-11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
DRN. 8/17/69				
DATE 8/25/72				
CHKD. 8/25/72				
ENG. 8/25/72				
DATE 8/25/72				
PROJ. ENG. 8/25/72				
DATE 8/25/72				
PROJ. 8/25/72				
DATE 8/25/72				
MATERIAL				
NEXT HIGHER ASSEMBLY				
A-M-L-KM11-0				
SCALE NONE				
SHEET 3 OF 3				
PARTS LIST				
digital EQUIPMENT CORPORATION				
TITLE				
MAINTENANCE BOARD(2)				
W131				
KM-3				
SIZE CODE				
DBS KM11-0-MB				
NUMBER				
REV				
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.

KE11-E.F				KT11-D			
EXP OVFL	MSR 01	EPS (N)	ROM D	EXP UNFL	MSR 00	EPS (Z)	ROM C
EXP UNFL	MSR 00	EPS (Z)	PBA 08	EXP ECN	MSR 00	EPS (V)	PBA 11
EXP ECN	MSR 00	EPS (V)	PBA 07	EXP B 15	MSR 00	EPS (C)	PBA 10
EXP B 15	MSR 00	EPS (C)	PBA 06	KT11-D KE11-E.F			
EXP B 15	MSR 00	EPS (C)	PBA 09				
EXP B 15	MSR 00	EPS (C)	PBA 12				
EXP B 15	MSR 00	EPS (C)	PBA 15				

First used on opt/mod
KT11-D
KE11-E.F

REVISIONS	REV.	
	CHANGE NO.	CHK

SPEC # 9200101-94 (BLACK)

DRN. <i>J. Dumas</i>	DATE 7-12-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. <i>Ben</i>	DATE 7-12-72	
ENG. <i>7/25/72</i>	DATE 7/25/72	
PROJ. ENG. <i>7/25/72</i>	DATE 7/25/72	
PROD. <i>7/31/72</i>	DATE 7/31/72	
NEXT HIGHER ASSY.		TITLE
C-MD-5509081-0-0		MAINT. MODULE OVERLAY (KT11-D KE11-E.F)
SCALE	SIZE CODE A SS	NUMBER 5509081-0-13
SHEET OF	DIST. G	REV.

