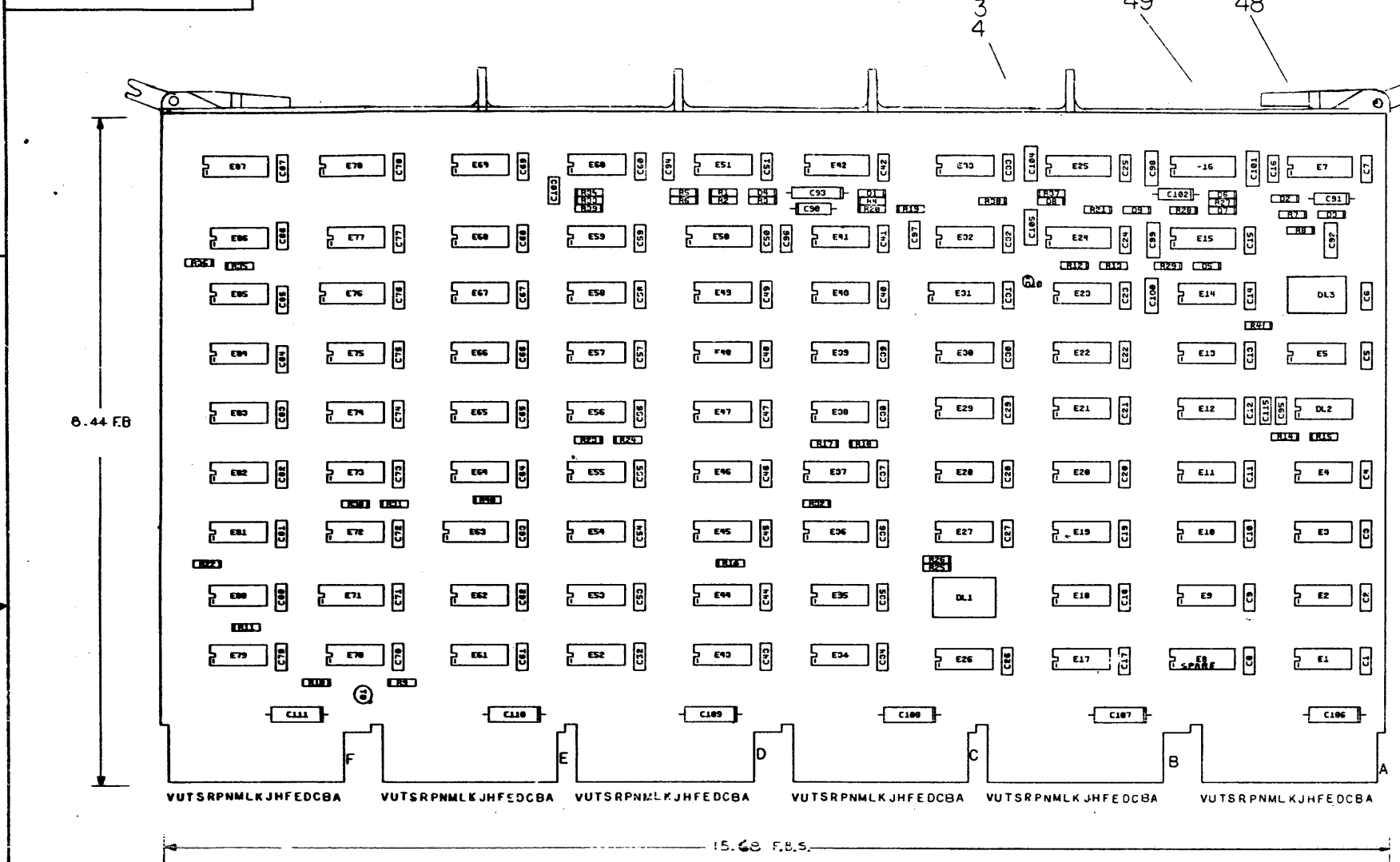


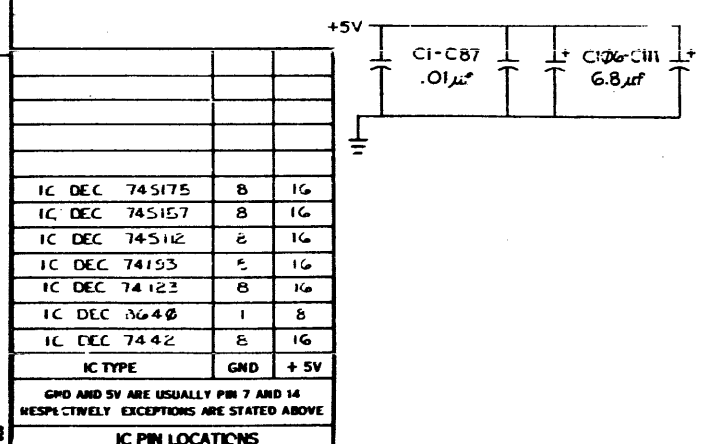
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NOTES:

* MODULE LOCATION IS SLOT 12



REF	DESCRIPTION	PART NO.	ITEM NO.
REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8136-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8136-0-5	2
REF	MODULE ECO HISTORY	B-WH-M8136-0-6	3
1	ETCHED CIRCUIT BOARD	5011340	4
2	C92, C101	CAPACITOR 330pf 100V 5%	1000023
7	C93, C106 THRU C111	CAPACITOR 6.8uf 35V 10%	1005306
93	C1 THRU C87, C94, C96, C97, C100, C103, C115	CAPACITOR .01uf 100V 20%	1001610-01
4	C99, C99, C104, C105	CAPACITOR 1200pf 100V 5%	1002424
1	C102	CAPACITOR 2.2uf 20V 10%	1002627
1	C95	CAPACITOR 82pf 100V 5%	1000015
2	C90, C91	CAPACITOR .47uf 35V 10%	1005965
9	D1 THRU D9	DIODE D664	1100114
1	D10	DIODE, LIGHT EMITTING MV5054-2	1110864
2	R32, R16	RESISTOR 100 OHM 1/4W 5%	1300229
2	R15, R40	RESISTOR 150 OHM 1/4W 5%	1300250
3	R13, R24, R31	RESISTOR 390 OHM 1/4W 5%	1300309
5	R11, R10, R22, R39, R41	RESISTOR 1K 1/4W 5%	1300365
6	R1, R5, R17, R19, R33, R35	RESISTOR 330 OHM 1/4W 5%	1300295
5	R8, R21, R27, R29, R37	RESISTOR 15K 1/4W 5%	1300456
1	R9	RESISTOR 3.9K 1/4W 5%	1300444
3	R12, R30, R23	RESISTOR 180 OHM 1/4W 5%	1301322
6	R2, R6, R18, R20, R34, R36	RESISTOR 680 OHM 1/4W 5%	1301424
1	R14	RESISTOR 300 OHM 1/4W 5%	1301425
2	R3, R7	RESISTOR 20K 1/4W 5%	1302391
2	R4, R29	RESISTOR 30K 1/4W 5%	1302394
1	R38	RESISTOR 470 OHM 1/4W 5%	1300316
1	Q1	TRANSISTOR DEC 3009B	1503100
2	E14, E73	IC DEC 74H30	1909059
2	E1, E86	IC DEC 74H50	1909060
4	E61, E62, E70, E79	IC DEC 8881	1909705
13	E3, E22, E26, E34, E39, E27, E43, E58, E68, E69, E75, E77, E84	IC DEC 74500	1910532
9	E2, E4, E9, E38, E52, E56, E57, E72, E85	IC DEC 74504	1910534
3	E20, E44, E46	IC DEC 74510	1910536
9	E18, E19, E23, E30, E32, E48, E54, E66, E87	IC DEC 74511	1910537
3	E10, E65, E74	IC DEC 74520	1910539
16	E13, E11, E17, E21, E29, E28, E33, E41, E45, E51, E59, E81, E82, E93, E60, E64	IC DEC 74574	1910544
4	E24, E31, E36, E50	IC DEC 745112	1910545
4	E12, E35, E49, E55	IC DEC 745140	1910546
1	E63	IC DEC 745157	1910548
5	E7, E15, E16, E25, E42	IC DEC 74123	1910436
1	E37	IC DEC 74193	1910018
1	E40	IC DEC 8885	1910649
2	E78, E87	IC DEC 7442	1910046
2	E71, E76	IC DEC 745175	1910957
4	E80, E53, E47, E5	IC DEC 8640	1911469
1	DL1	DELAY LINE (50ns)	1609428
1	DL2	DELAY LINE (tapped)	1611243
1		HANDLE ASSY	1210711-02
12		EYELETS	9006732
REF	FLOW DIAGRAM	D-FD-M8136-0-8	53
1	DL3	DELAY LINE 100NS	1609559
REF	TIMING DIAGRAM	D-TD-M8136-0-7	51



QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R25	RESISTOR	620Ω, 1/4W, 5%	1303178	56
1	R26	RESISTOR	120Ω, 1/4W, 5%	1300247	55
A/R		WIRE, BUSS	30 AWG	9105740-55	54
REF		FLOW DIAGRAM		D-FD-M8136-0-8	53
1	DL3	DELAY LINE	100NS	1609559	52

QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	DL1	DELAY LINE	(50ns)	1609428	46
1	DL2	DELAY LINE	(tapped)	1611243	47
1		HANDLE ASSY		1210711-02	48
12		EYELETS		9006732	49

FIRST USED ON OPTION MODEL: 11/70

ETCH BOARD REV: C

DRN: W. AMOULLI DATE: 10-29-74

CHK'D: TERRY VINCENTI DATE: 12-9-74

ENG: [Signature] DATE: 1-6-75

PROL ENG: [Signature] DATE: 1-6-75

PROD: [Signature] DATE: 1/9/75

NEXT HIGHER ASSY:

SCALE: 1 OF 8

SEMICONDUCTOR CONVERSION CHART

digital EQUIPMENT CORPORATION

TITLE: UNIBUS & CONSOLE CONTROL (UBC)

SIZE CODE: DCS M8136-0-1

NUMBER: REV F

REVISIONS

CHK CHANGE NO REV

1 ORIGINAL A

2 [Signature] 1-17-75

3 [Signature] 1-17-75

4 [Signature] 1-17-75

5 [Signature] 1-17-75

6 [Signature] 1-17-75

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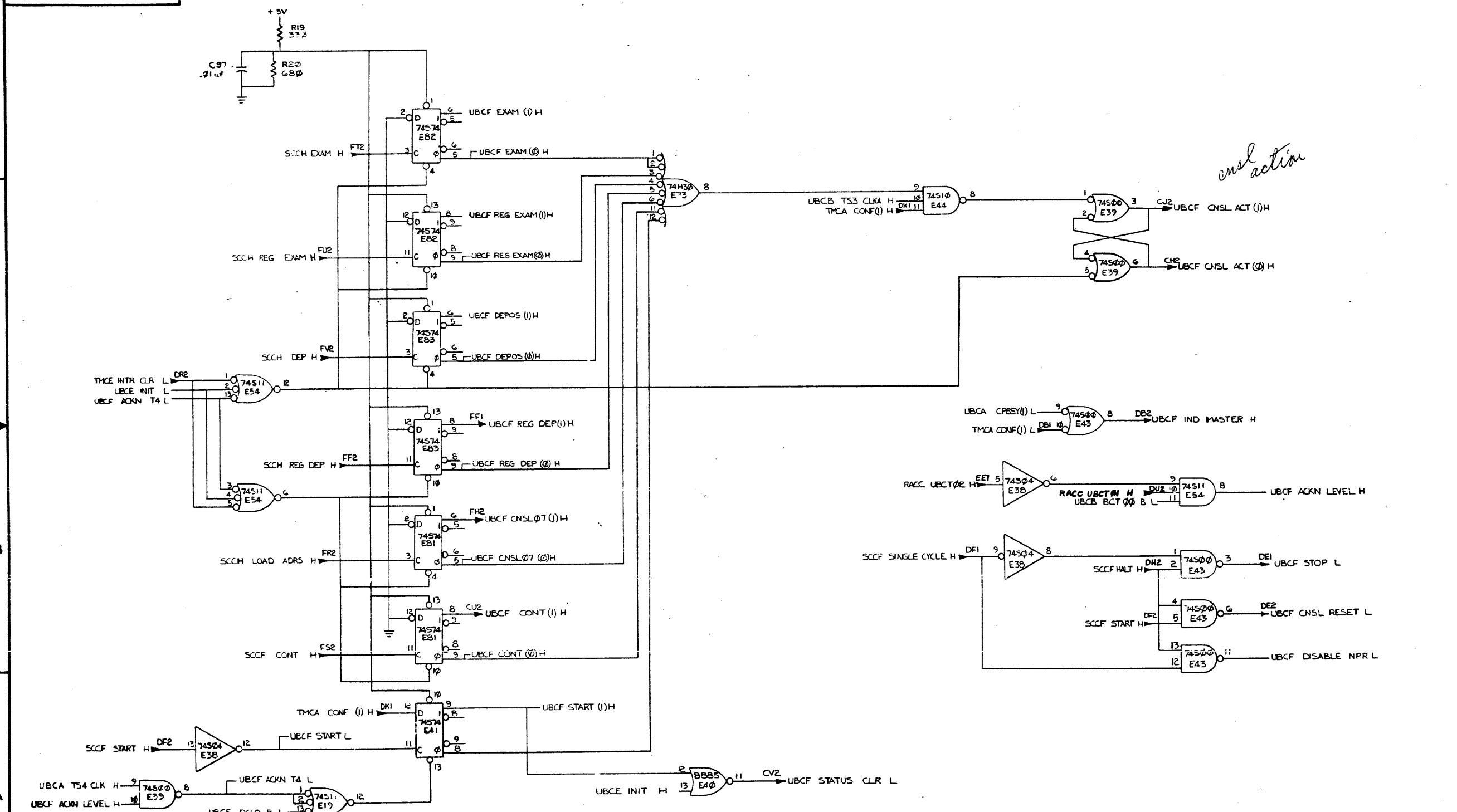
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DIGITAL EQUIPMENT CORPORATION
1-0-5818W 2



(CONSOLE CONTROL) SLOT 12

REVISIONS		
CHK	CHANGE NO.	REV.

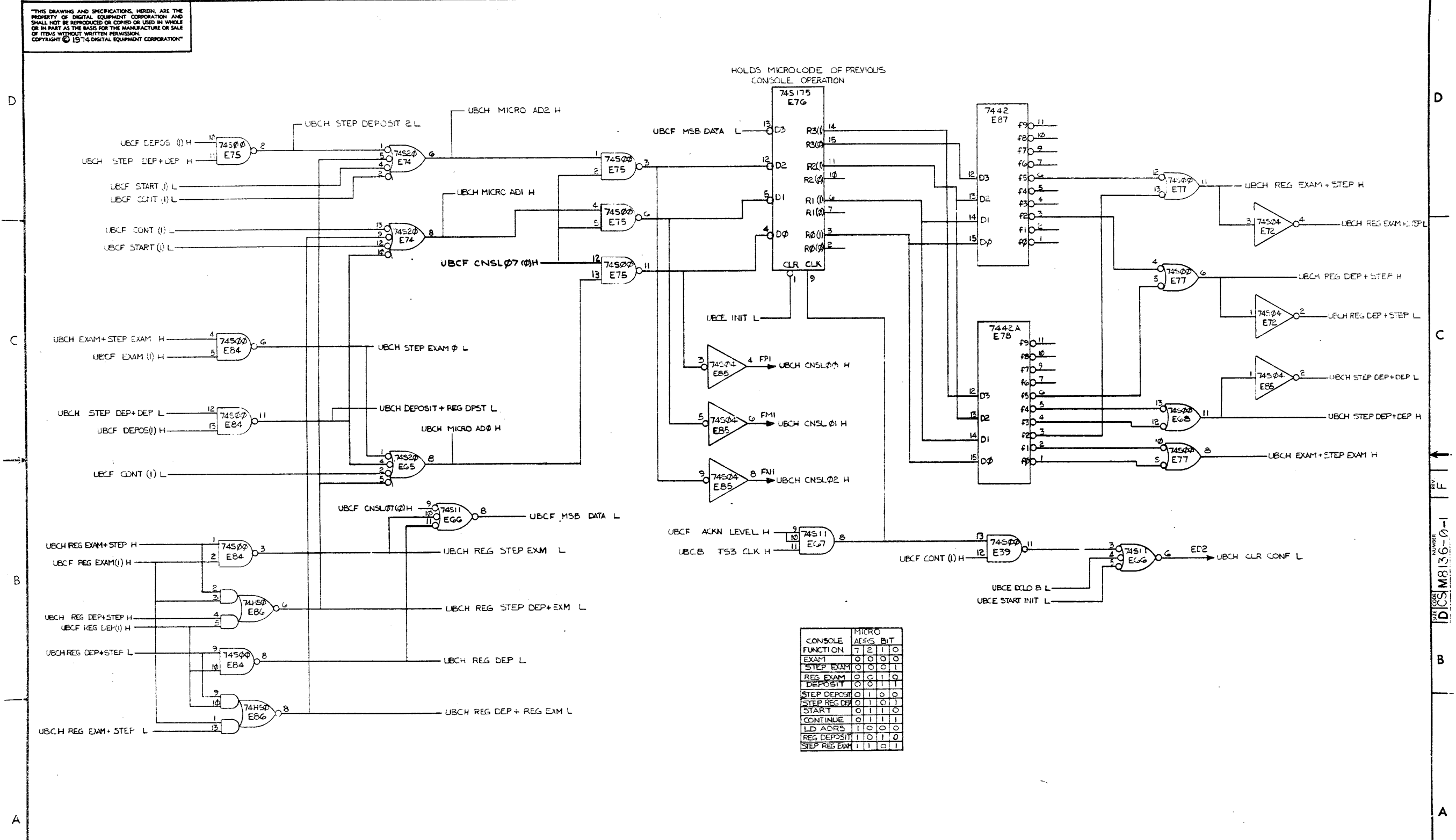
98

TITLE	(UBCF) UNIBUS CONSOLE CONT	SIZE CODE	D CS	NUMBER	M8136-0-1	REV.	F
SCALE	1:1	SHEET	7	OF	8	DIST.	

190

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DCS M8136-0-1 2



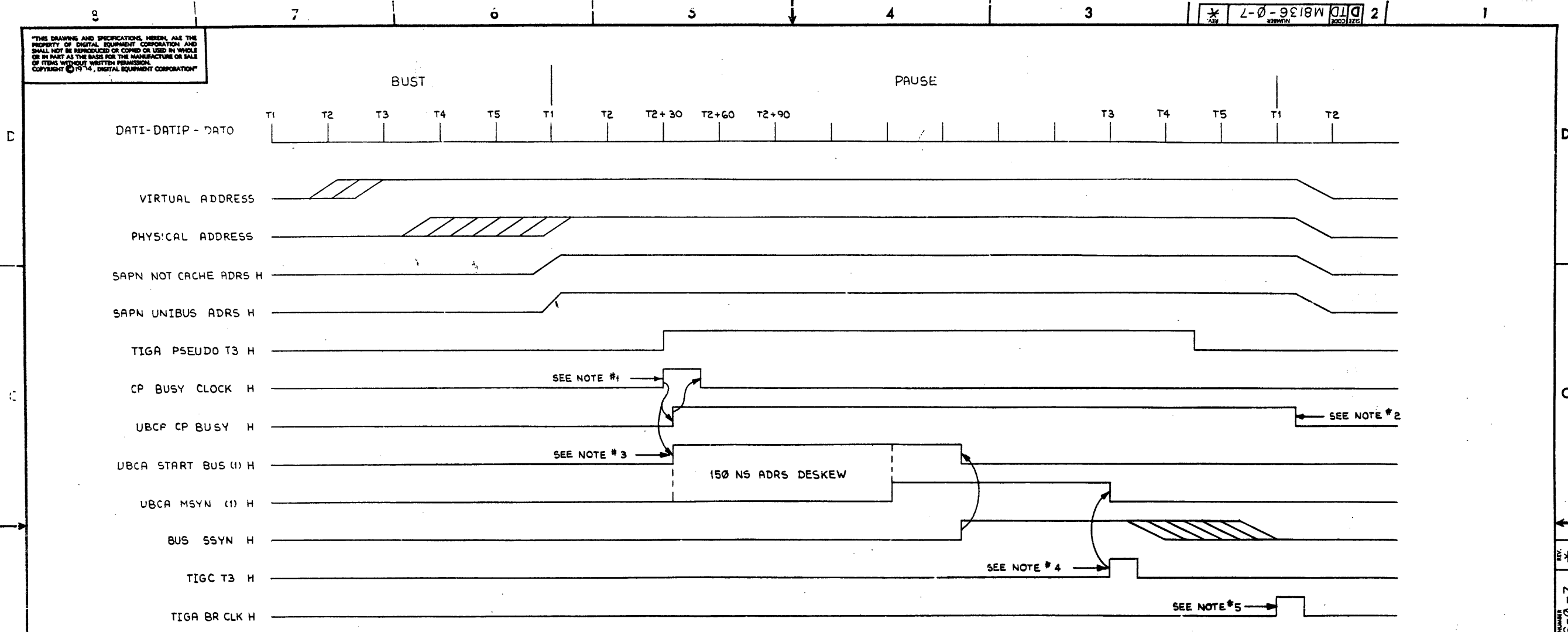
CONSOLE FUNCTION	MICRO ADDR	BIT
EXAM	7	1
STEP EXAM	0	0
REG EXAM	0	1
DEPOSIT	0	1
STEP DEPOSIT	0	1
STEP REG DEP	0	1
START	0	1
CONTINUE	0	1
LD ADRS	1	0
REG DEPOSIT	1	0
STEP REG EXAM	1	1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		(UBCH) SIZE CODE		NUMBER		REV.
UNIBUS CONSOLE CONT.		DCS		M8136-0-1		F
SCALE	SHEET 8 OF 8	DIST.				

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DITD M8136-0-7 2



- NOTES:
1. SET CP BUSY IF -(NPR + NPG + SACK + DSACK + ABORT + BBUSY)
 2. CP BUSY IS NOT CLEARED IF DATIP CYCLE. IT IS CLEARED ON DATO PORTION OF DATIP/DATO
 3. USED TO START DATO ADDRESS DESKEW ON DATIP/DATO OPERATION
 4. 75 NS DATA DESKEW IS OBTAINED BY 2 STAGE SYNCHRONIZER ON TIGA. UNIBUS DATA IS LOADED INTO PDRH BUFFER REGISTER AT T3
 5. ADDRESS & CONTROL ARE DESKEWED FROM T3 TO T1. PDRH BUFFER REGISTER LOADED TO BR AT T1.

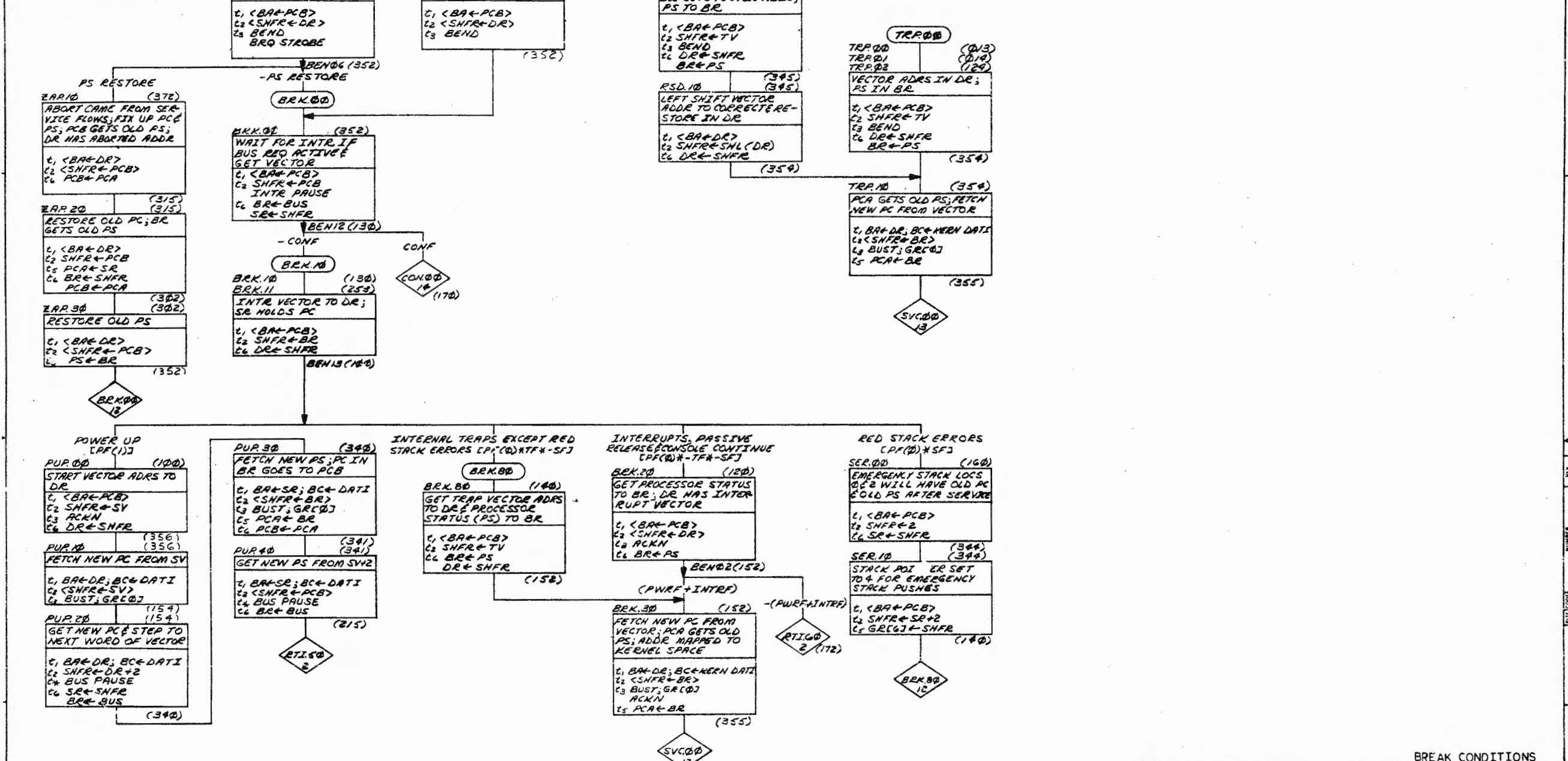
REV. *
NUMBER M0136-0-7
DITD M8136-0-7

REV.	
CHANGE NO.	

FIRST USED ON OPTION/MODEL 11/70	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN 2/2/74	DATE	digital
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		CHKD. 12/19/74	DATE	
MILLIMETERS	INCHES	ANGLES	ENG. 1-6-75	TITLE
X,XX = ±0.10	J,XX = ±0.05	10° 30'	PROL. ENG. 1-6-75	TIMING DIAGRAM
X,X = ±0.5	J,X = ±0.2		PROD. DATE 1/21/75	
X = ±2	X = ±1			
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.		
MATERIAL	FINISH	SCALE	SIZE CODE	NUMBER
		SHEET OF	DITD	M8136-0-7
			DIST.	REV. *

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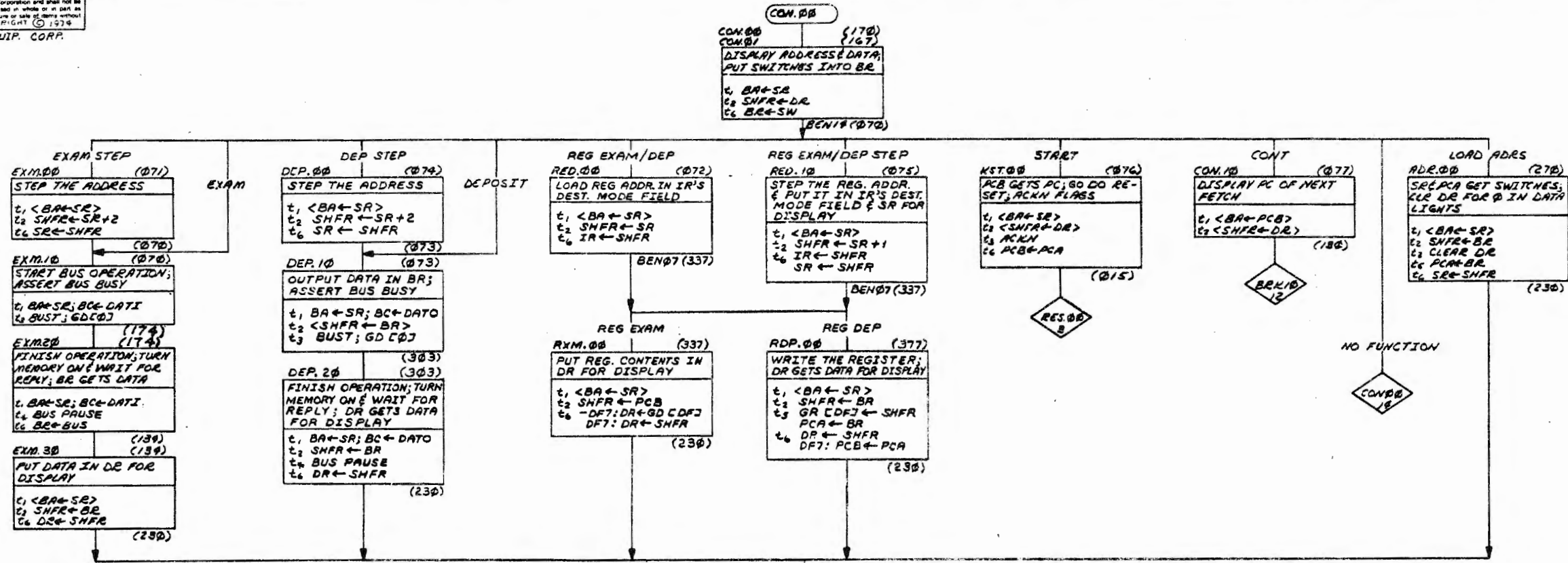
DIGITAL EQUIP. CORR.



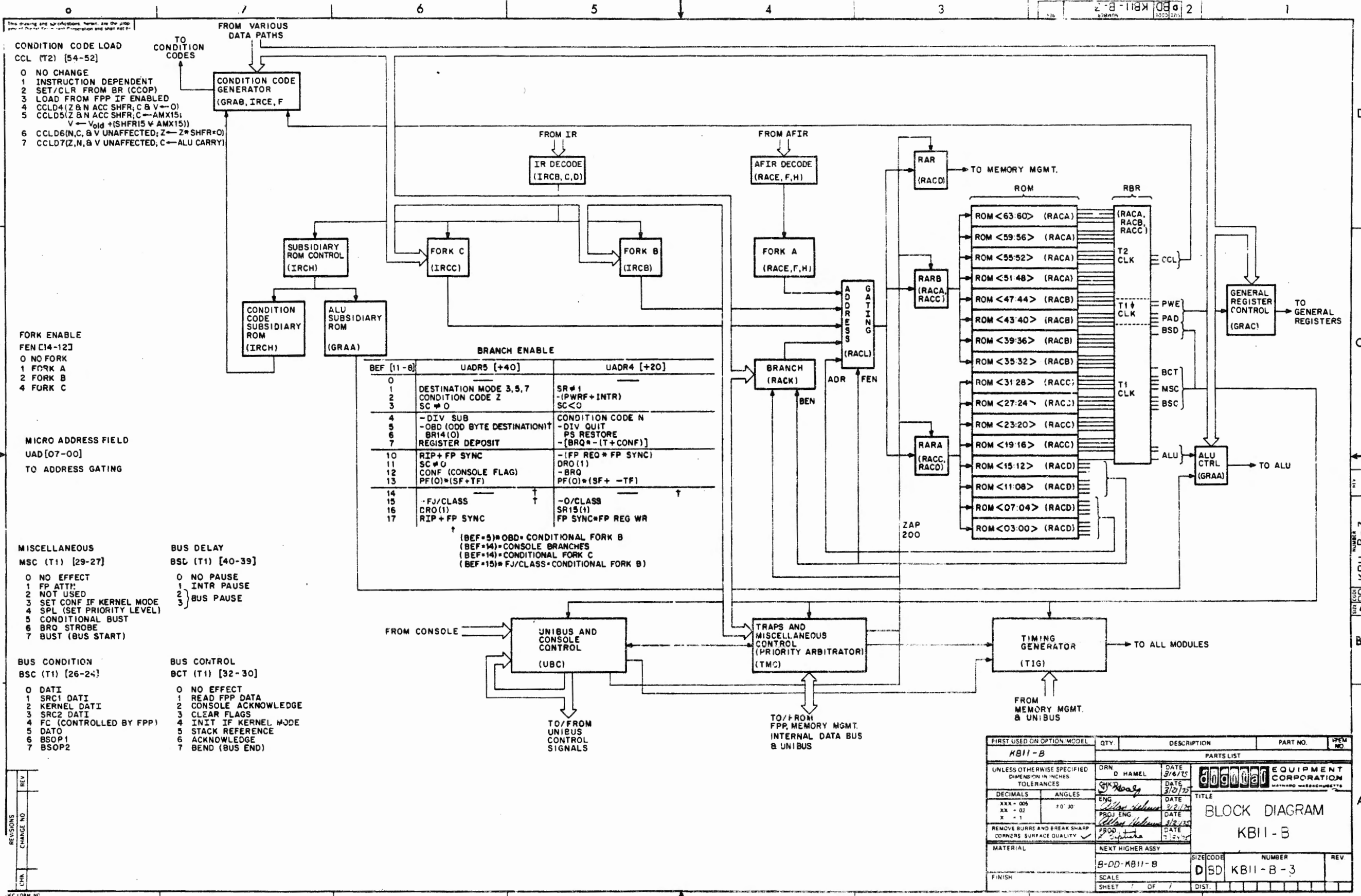
BREAK CONDITIONS			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO. ITEM NO.
11/70			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DATE	DATE	digital EQUIPMENT CORPORATION TITLE: KBII-C FLOW DIAGRAMS (FLOWS 12)
DECIMALS ANGLES	12/72	12/72	
XXX + 005 .XX + 02 X - 1	12/72	12/72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	12/72	12/72	
MATERIAL	DATE	DATE	
FINISH	DATE	DATE	
SCALE	SIZE CODE	NUMBER	REV.
SHEET 13 OF 15	D	FD	KBII-C-1

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1-118K11-C-1 2



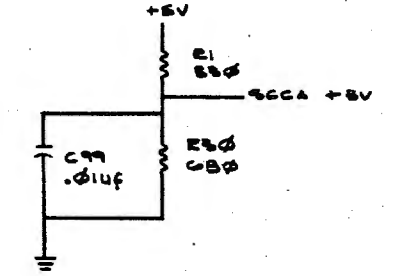
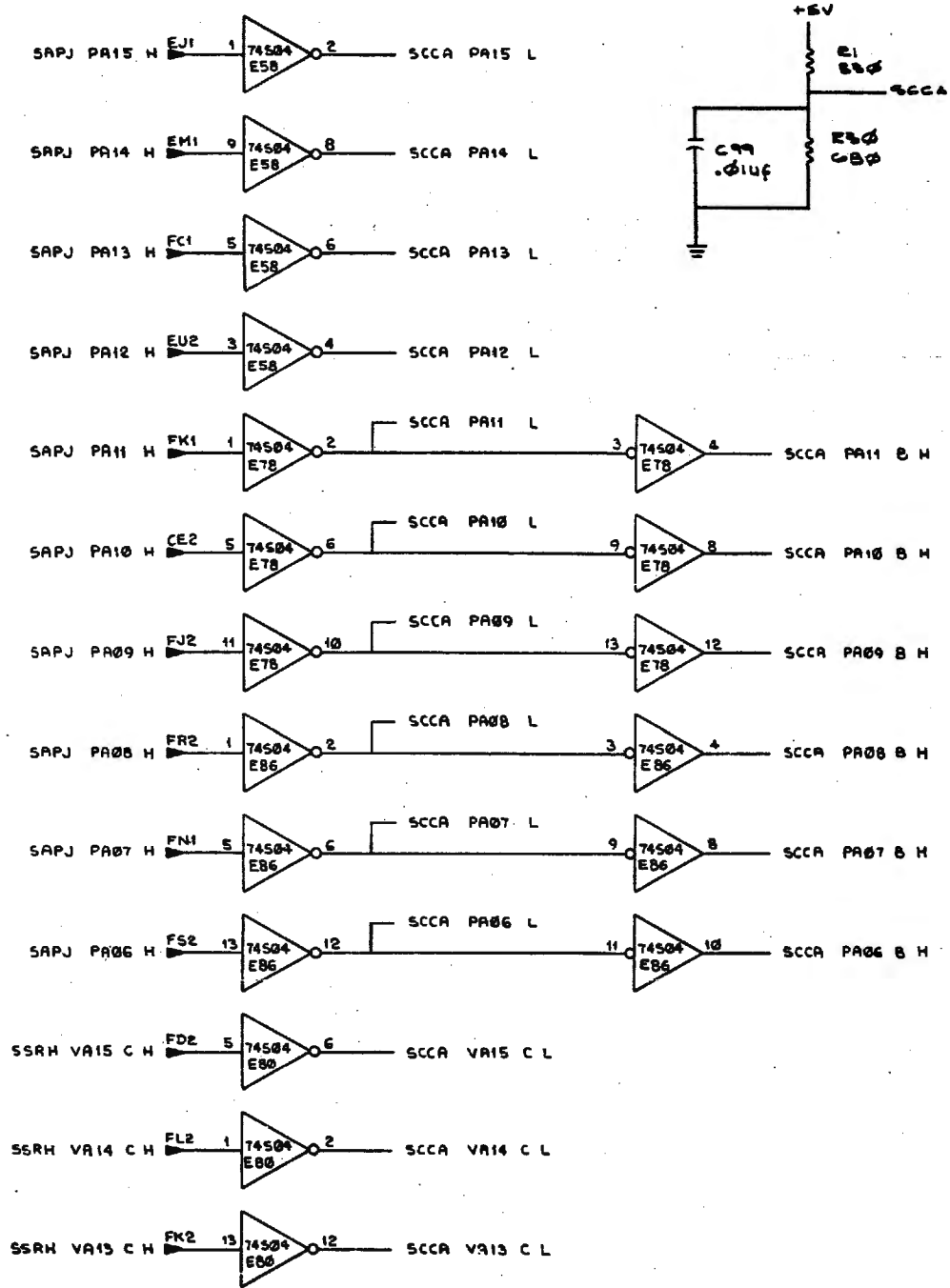
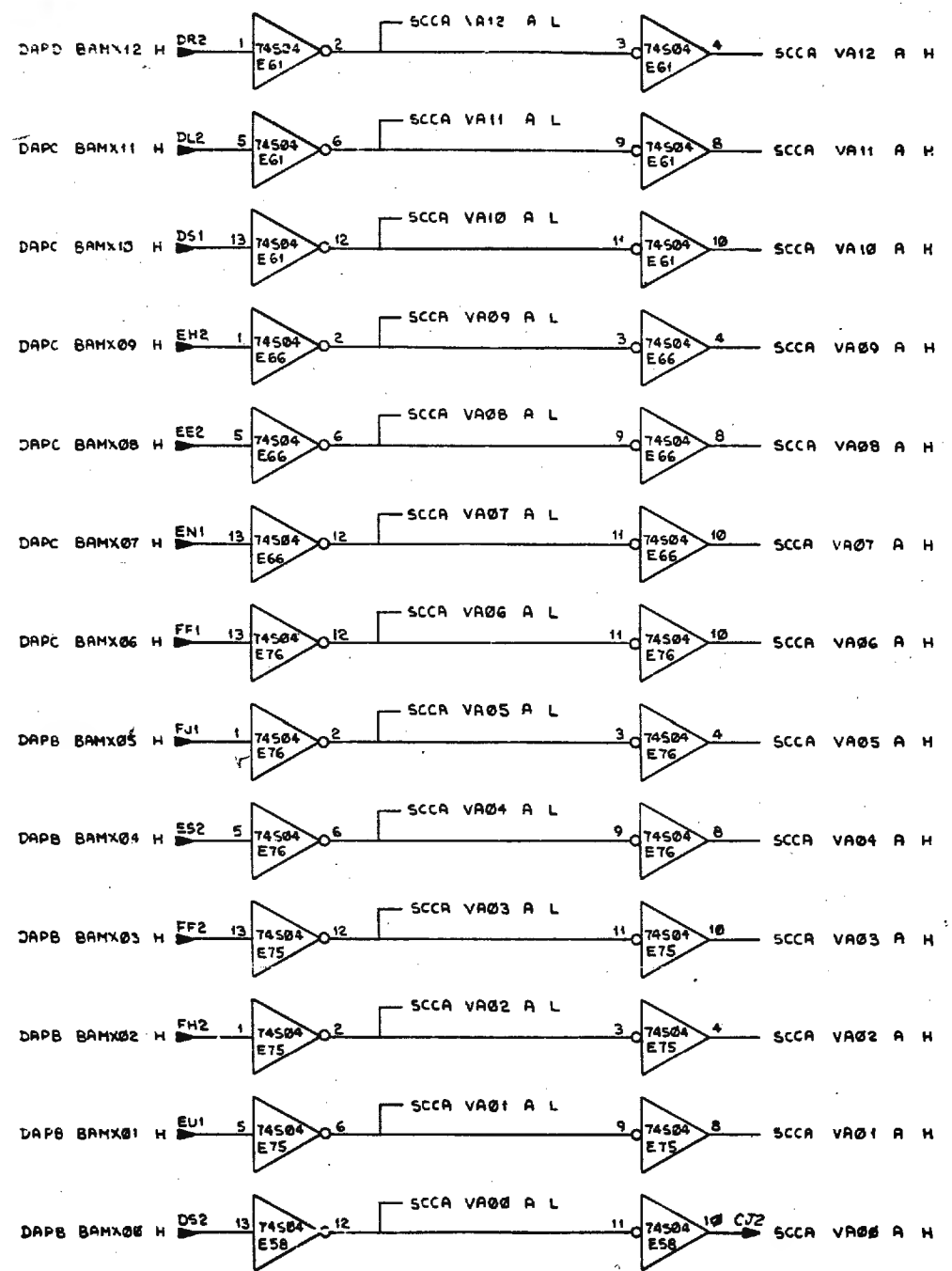
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/70					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN	DATE	DIGITAL EQUIPMENT CORPORATION MILITARY MASSACHUSETTS		
DECIMALS	CHKD	DATE	TITLE KBII-C FLOW DIAGRAMS (FLOWS 14)		
ANGLES	ENG	DATE			
XX - 008	PROG. ENGR	DATE			
XX - 02	PROD.	DATE			
REMOVE BURRS AND BREAK SHARP CORNER SURFACE QUALITY					
MATERIAL			NEXT HIGHER ASSY.	SIZE CODE	NUMBER
FINISH			SCALE	DFD	KBII-C-1
			SHEET 15 OF 15	DIST	



FIRST USED OR OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
KB11-B		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN D HAMEL	DATE 3/18/75	docotal EQUIPMENT CORPORATION	
DECIMALS ANGLES	ENG G. K. Hooley	DATE 3/21/75	TITLE	
XXX - 005 XX - 02 X - 1	PROJ ENG	DATE 3/22/75	BLOCK DIAGRAM	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD	DATE 3/22/75	KB11-B	
MATERIAL	NEXT HIGHER ASSY		SIZE CODE	NUMBER
FINISH	B-DD-KB11-B		D BD	KB11-B-3
	SCALE		SHEET	OF 1
			DIST.	

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1-0-0118W SCD 2



REVISIONS		
CHK	CHANGE NO.	REV.

ADDRESS BUFFERS SLOT 16

TITLE	SIZE/COOR	NUMBER	REV.
SYS DESC/CNSL CABLES (SCCA)	D CS	M8140-0-1	B
SCALE	SHEET 2 OF 13	DIST.	

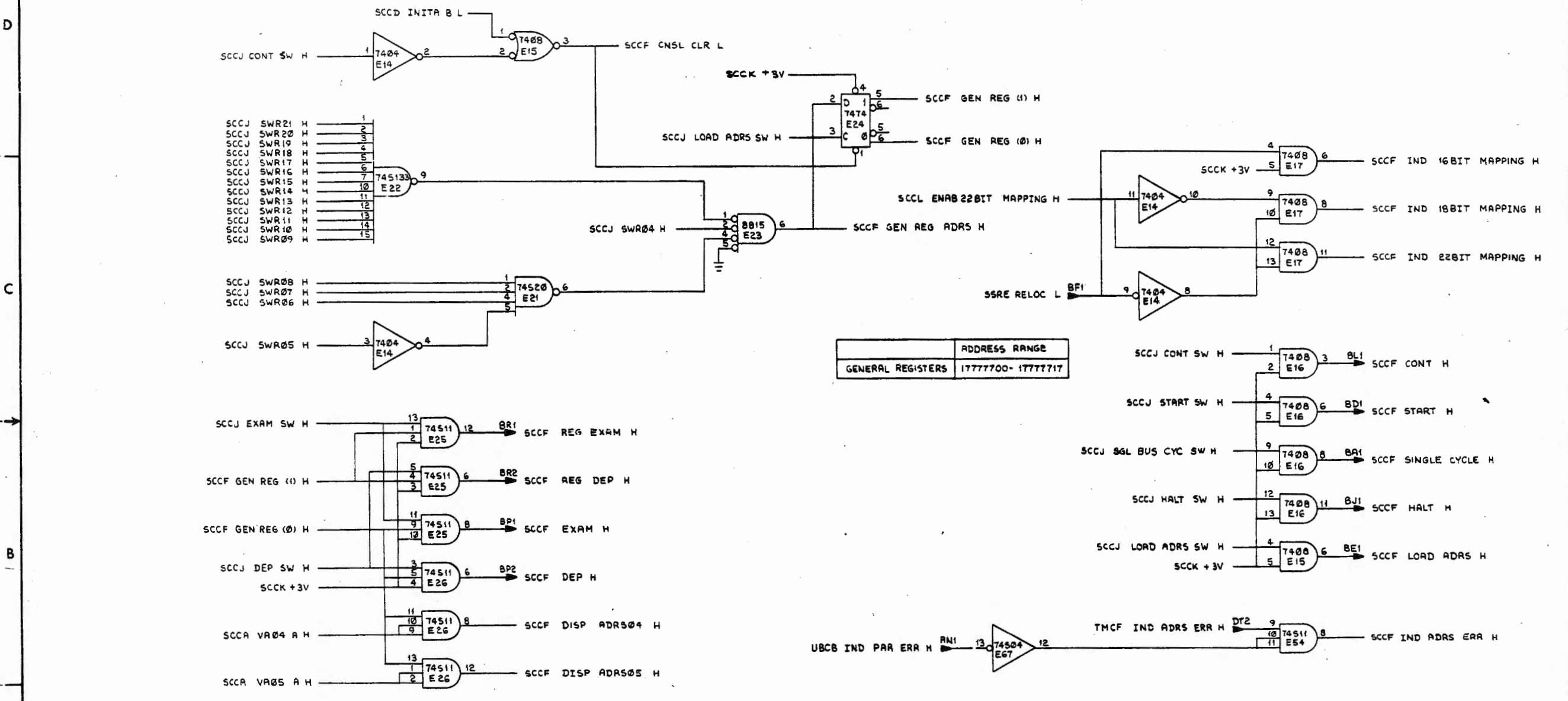
M8140-0-1

172

264

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1-0-0-18W SCD 2



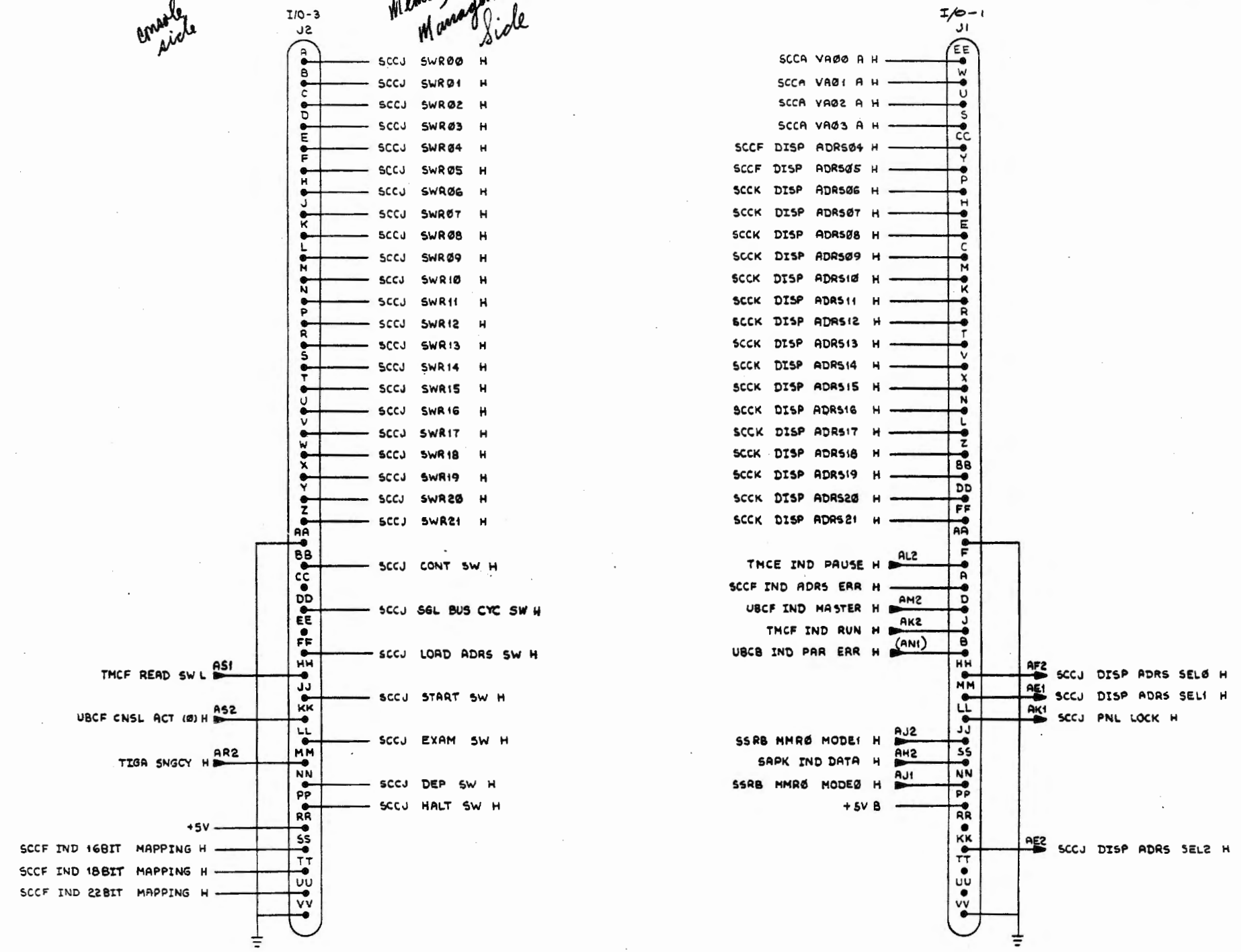
REVISIONS		
CHK	CHANGE NO.	REV.

GENERAL REGISTER DECODE SLOT 16

TITLE	SIZE CODE	NUMBER	REV.
SYS DESC/CNSL CABLES(SCCF)	D CS	M8140-0-1	B
SCALE	SHEET 7 OF 13	DIST.	

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male side
Memory Management Side



REVISIONS		
CHK	CHANGE NO.	REV.

SCC/CNSL CABLES SLOT 16

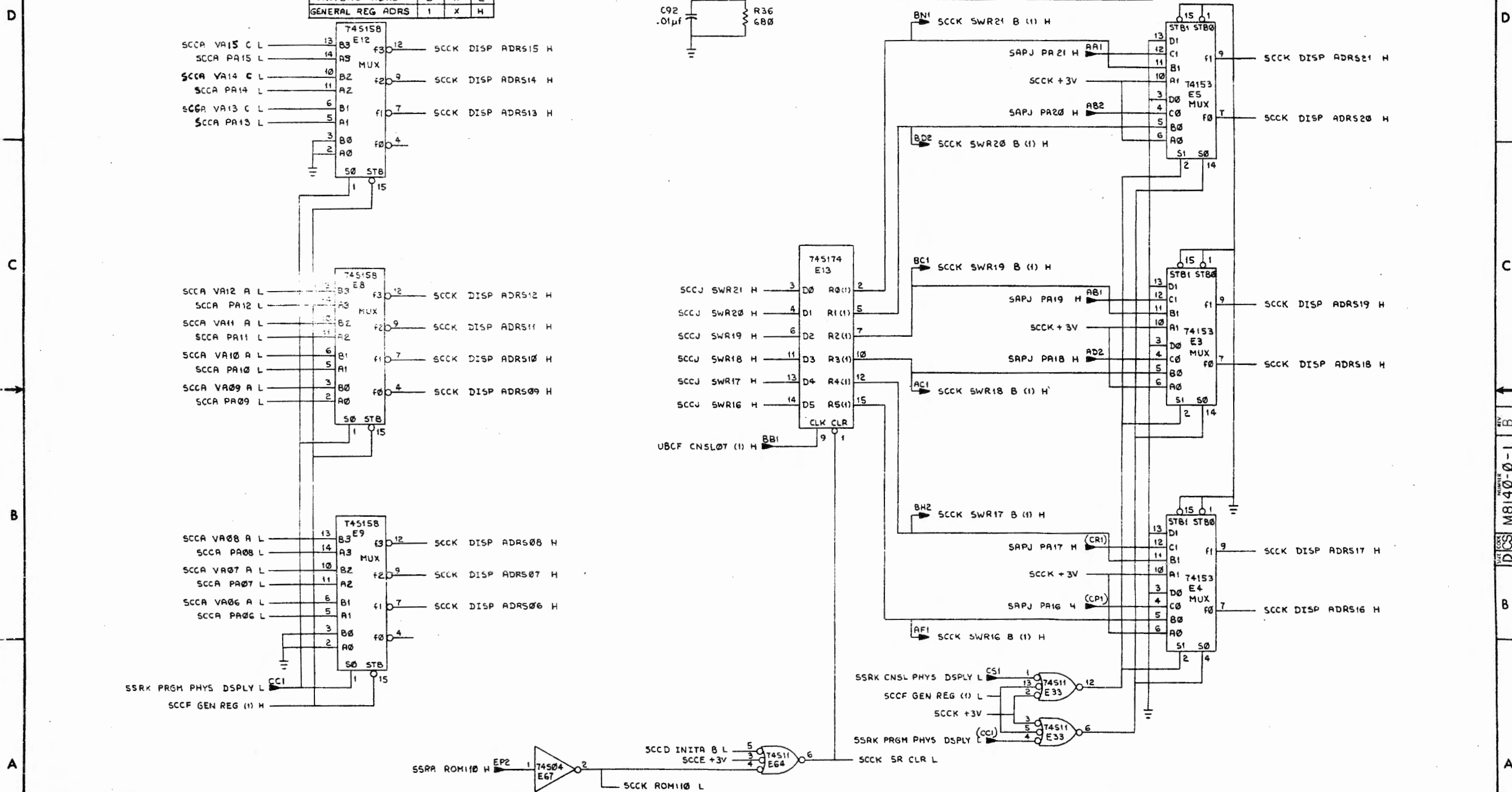
TITLE	SIZE/COOR	NUMBER	REV.
SYS DESC/CNSL CABLES(SCCJ)	D CS	M8140-0-1	B
SCALE	SHEET	OF	DIST.
	9	13	

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8 1-0-0-18W SC9 2

OUTPUT	IN	SEL	STB
RELOCATED ADRS	A	L	L
VIRTUAL ADRS	B	H	L
GENERAL REG ADRS	I	X	H

OUTPUT	INPUT LINES SELECTED	S1	S0
GEN REG	A1 A0	L	L
CONSOLE PHYS	B1 B0	L	H
PROGRAM PHYS	C1 C0	H	L
VIRTUAL	D1 D0	H	H



REVISIONS		
CHK	CHANGE NO.	REV.

CONSOLE ADDRESS DISPLAY SLOT 16

TITLE	SIZE/CODE	NUMBER	REV.
SYS DESC/CONSL CABLES(SCCK)	D CS	M8140-0-1	B
SCALE	SHEET 10 OF 13	DIST.	

REV. B M8140-0-1