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FIELD MAINTENANCE PRINT SET

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NOTE : ELECTRO STATIC SENSITIVE ITEM:
MAINTAIN ANTI_STATIC PROTECTION
PROCEDURES

L0016

Field Maintenance Print Set

Digital Equipment Corporation

MP01404

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS	SIZE	CODE	NUMBER	REV.	C		
		L0016-00	COMET MEMORY BOARD	B B B							
K-PC-L0016-0-DBC	-		PC DESIGN DATA BASE	B B B							
K-PL-L0016-0-DBP	2		COMET MEMORY UNIT	A B B							
E-UA-L0016-0-0	2		COMET MEMORY UNIT	A B C							
D-MD-5014676-0-0	3		CIRCUIT DRILL AND ETCH	A A A							
D-EC-5014676-0-0	3		ETCH CUT DRAWING	A A B							
		5014676-00	ETCHED CIRCUIT BOARD	B B B							
D-CS-L0016-0-MU01	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU02	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU03	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU04	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU05	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU06	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU07	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU08	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU09	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU10	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU11	1		COMET MEMORY UNIT	A A B							
D-CS-L0016-0-MU12	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU13	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU14	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU15	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU16	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU17	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU18	1		COMET MEMORY UNIT	A A A							
D-CS-L0016-0-MU19	1		COMET MEMORY UNIT	A A A							
NOTES:				REVISIONS DATE CHG NO. REV. 2/25/82 ORIG A 8/82 ML 001 3 4/83 SHOO2 C							
				USED ON OPTION/MODEL 	DRN. V. Mangaudis CHK'D J. Richard ENG. P. Natusch PROD D. TAYLOR	25FEB82 25FEB82 25FEB82 25FEB82	TITLE COMET MEMORY UNIT				
							NUMBER L0016-0 REV. 'C				
				SHEET 1 OF 2		SHO					

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digital

USED ON OPTION/MODEL

DRM

CHK

ENG

PRO

TITLE

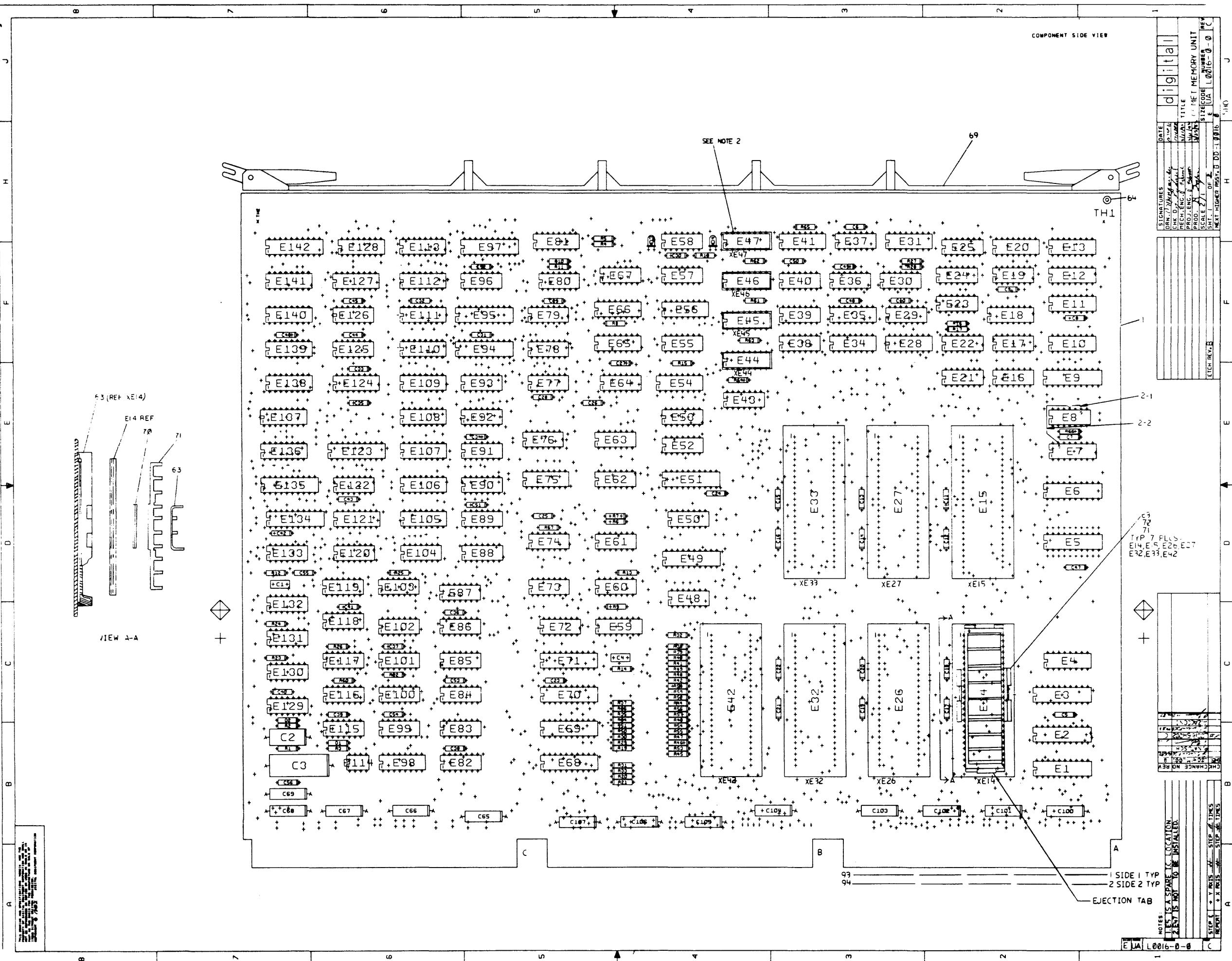
COMET MEMORY UNIT

SIZE

1

SHEET 2 OF

SHO



8
2 0-0-9007
6
5
4
3
2
1

THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-08-2016 BY SP-00000

J
REWORK INSTRUCTIONS:

ECO #2:

WIRE ADDS, SIDE 1:

- 2-1. E8-9 TO E8-11.
2-2. E7-15 TO E8-11.

H

J

F

F

E

E

D

D

C

C

B

B

A

A

REVISION HISTORY		
DATE	ECO NUMBER	REV

8

7

6

5

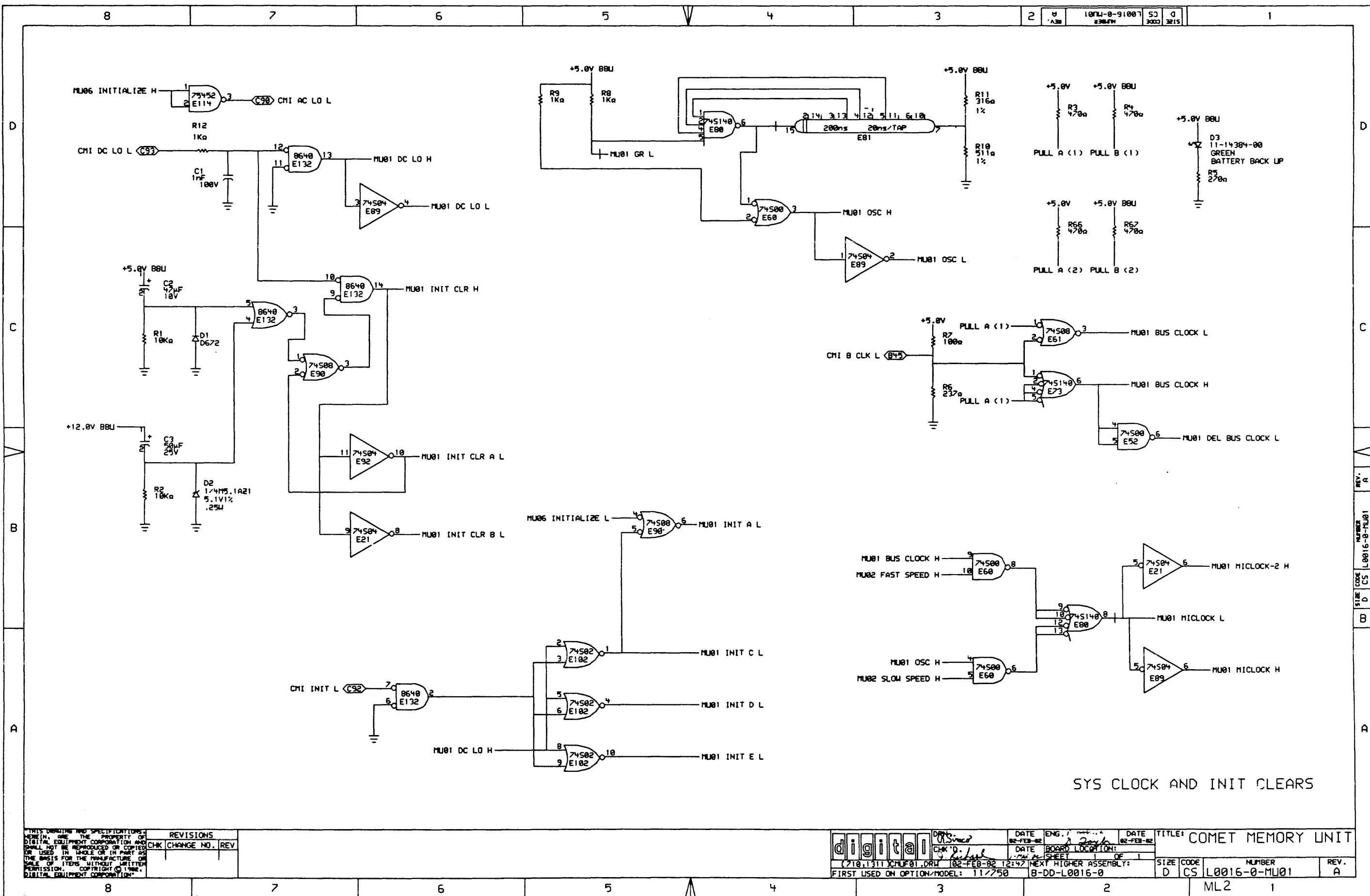
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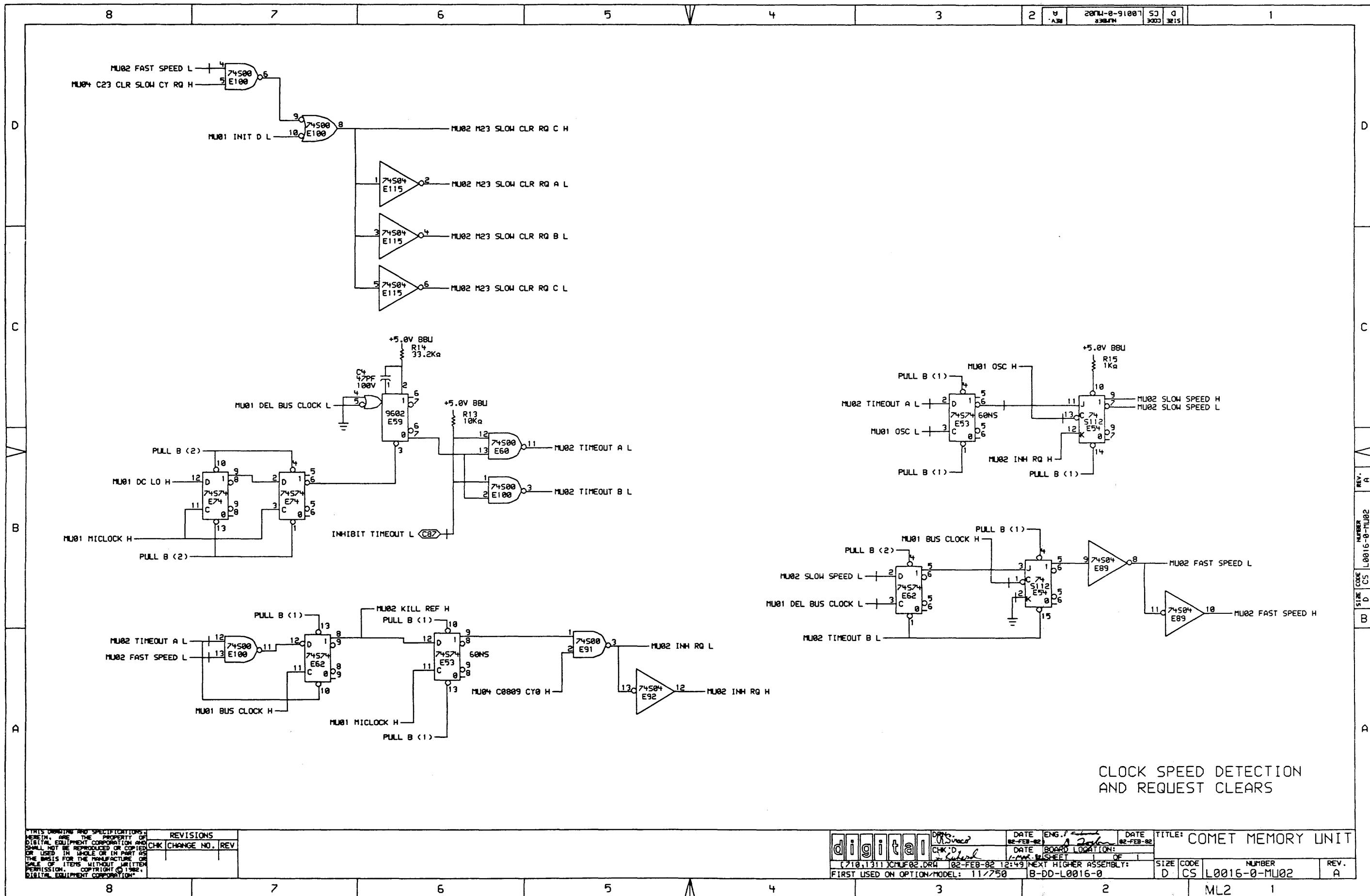
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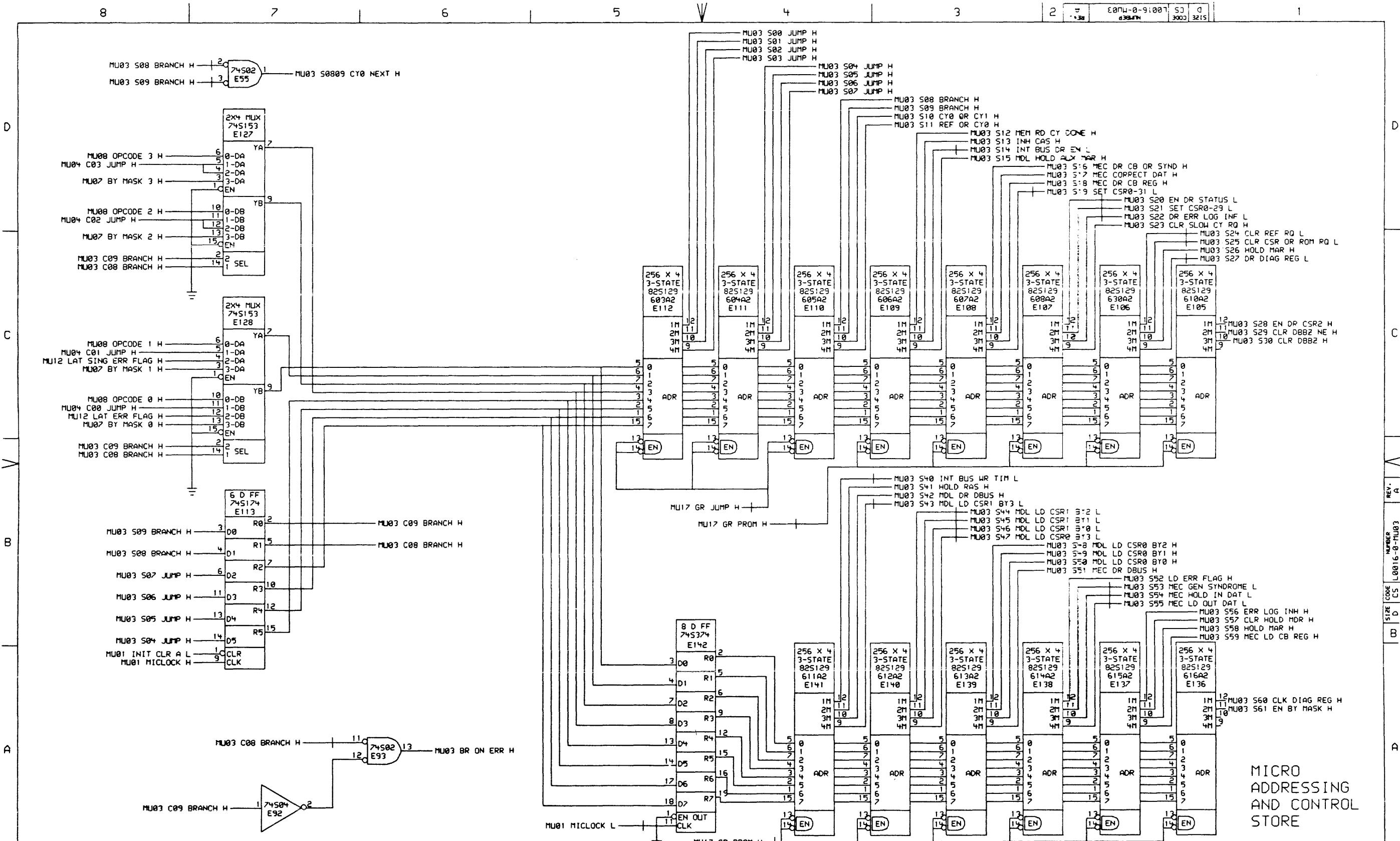
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DOCUMENT NUMBER
EUA L0016-0-0 C
SCALE -- ENCL 2 OF 2
SHO 1



SYS CLOCK AND INIT CLEARS

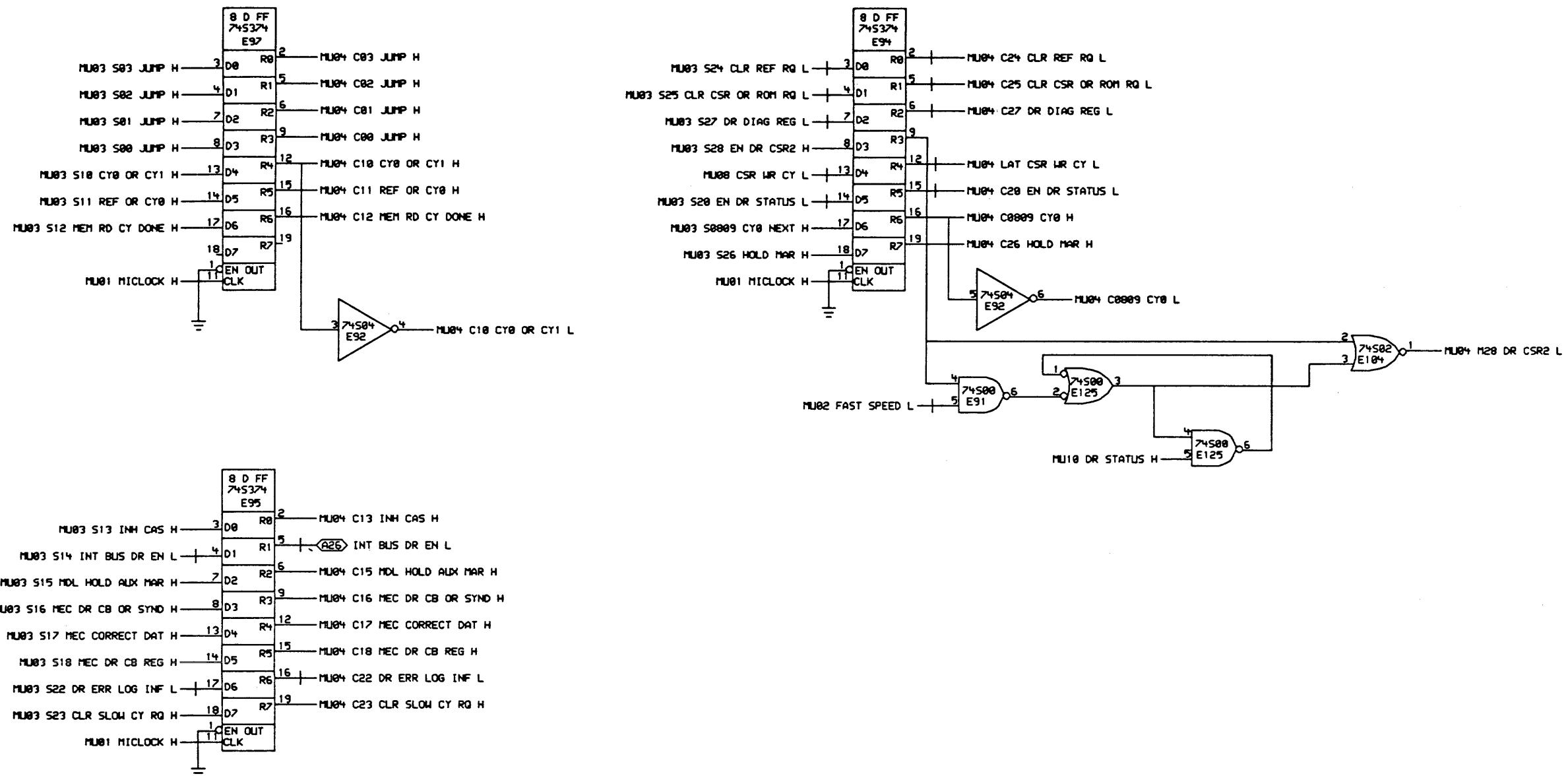




MICRO ADDRESSING AND CONTROL STORE

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1982.

DIGITAL	P/D: Siraco	DATE: 26-FEB-82	ENG. 102	DATE: 26-FEB-82	TITLE: COMET MEMORY UNIT		
	CHK'D: R. L. Cole	DATE: 26-FEB-82	BOARD LOCATION: MAIN SHEET 1 OF 1				
[718,131] CMUFO3.DRW		26-FEB-82 10:42	NEXT : GHER ASSEMBLY:		SIZE: D	CODE: CS	NUMBER: L0016-0-MU03
FIRST USED ON OPTION MODEL: 11/750 B-DD-L0016-0 REV. A							

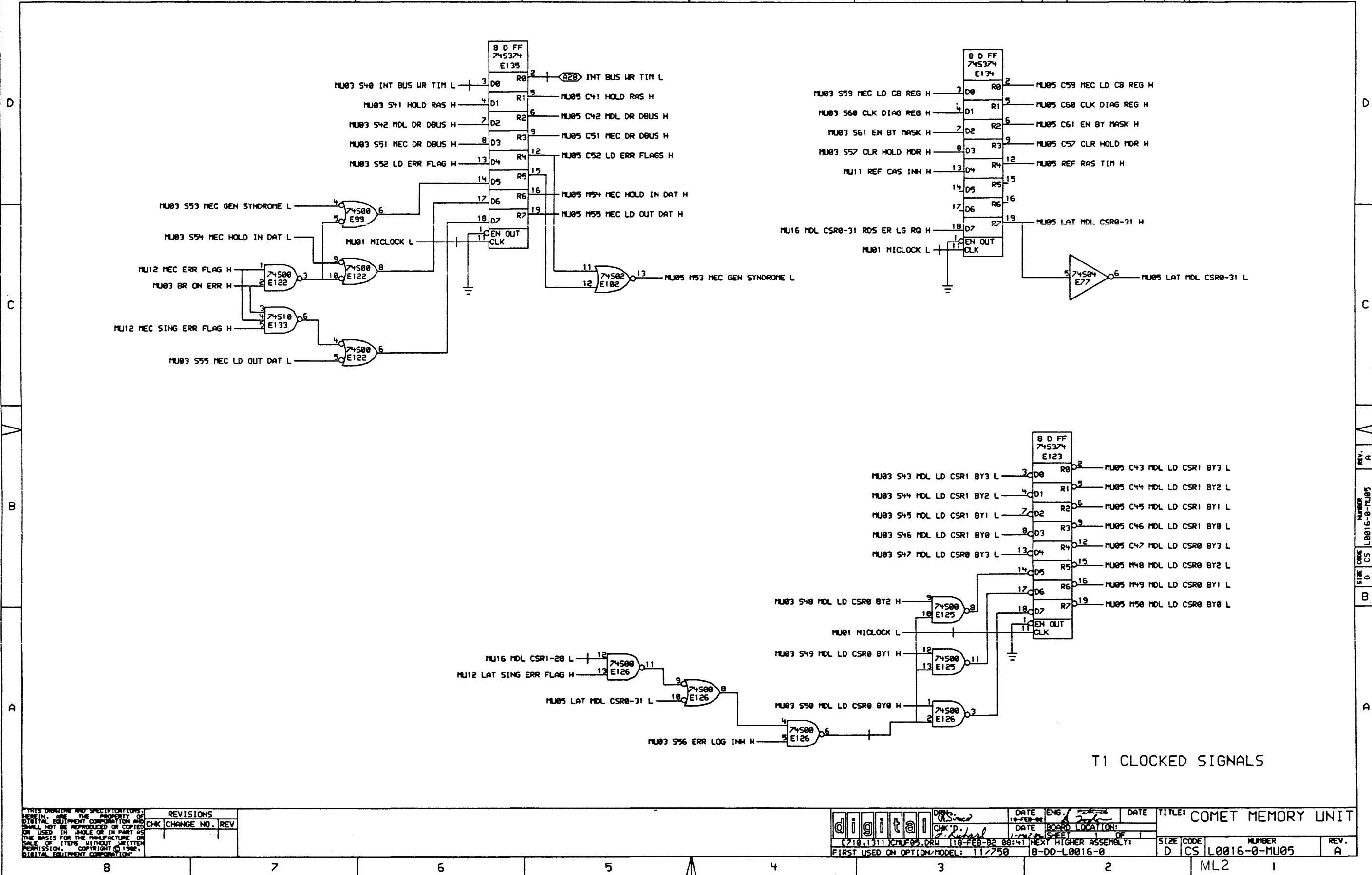


TO CLOCKED SIGNALS

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WITHOUT THE WRITTEN PERMISSION OF
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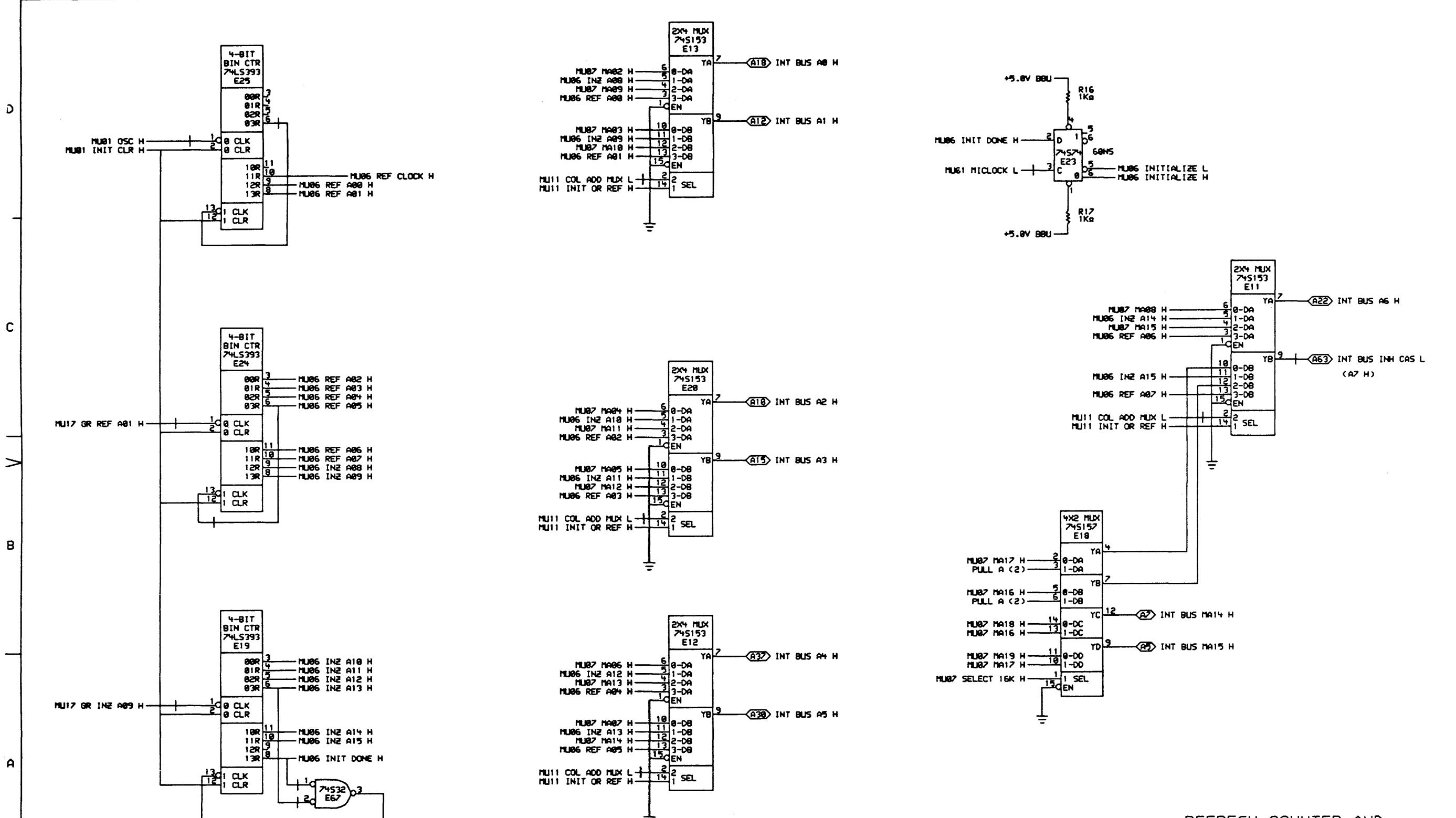
REVISIONS
CHK CHANGE NO. REV

DATE ENG	DATE REC'D	DATE
02-FEB-82	02-FEB-82	02-FEB-82
CHK'D	DATE BOARD LOCATION:	
<i>[Signature]</i>	1 OF 1	
C710,1311 XCHLF04.DRW		
FIRST USED ON OPTION/MODEL: 11/750		
B-DD-L0016-0		
SIZE CODE D CS	NUMBER L0016-0-MU04	REV. A



T1 CLOCKED SIGNALS

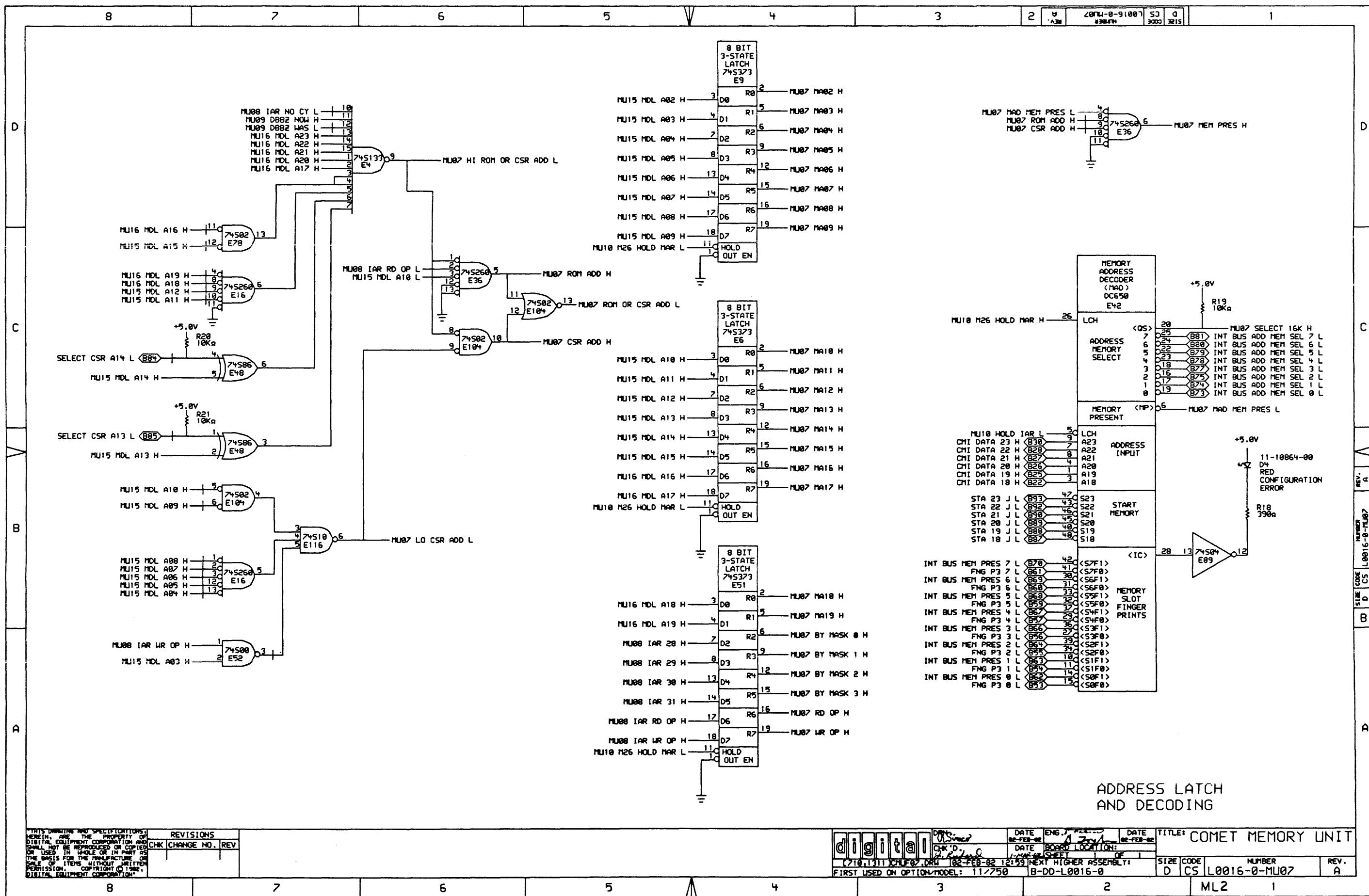
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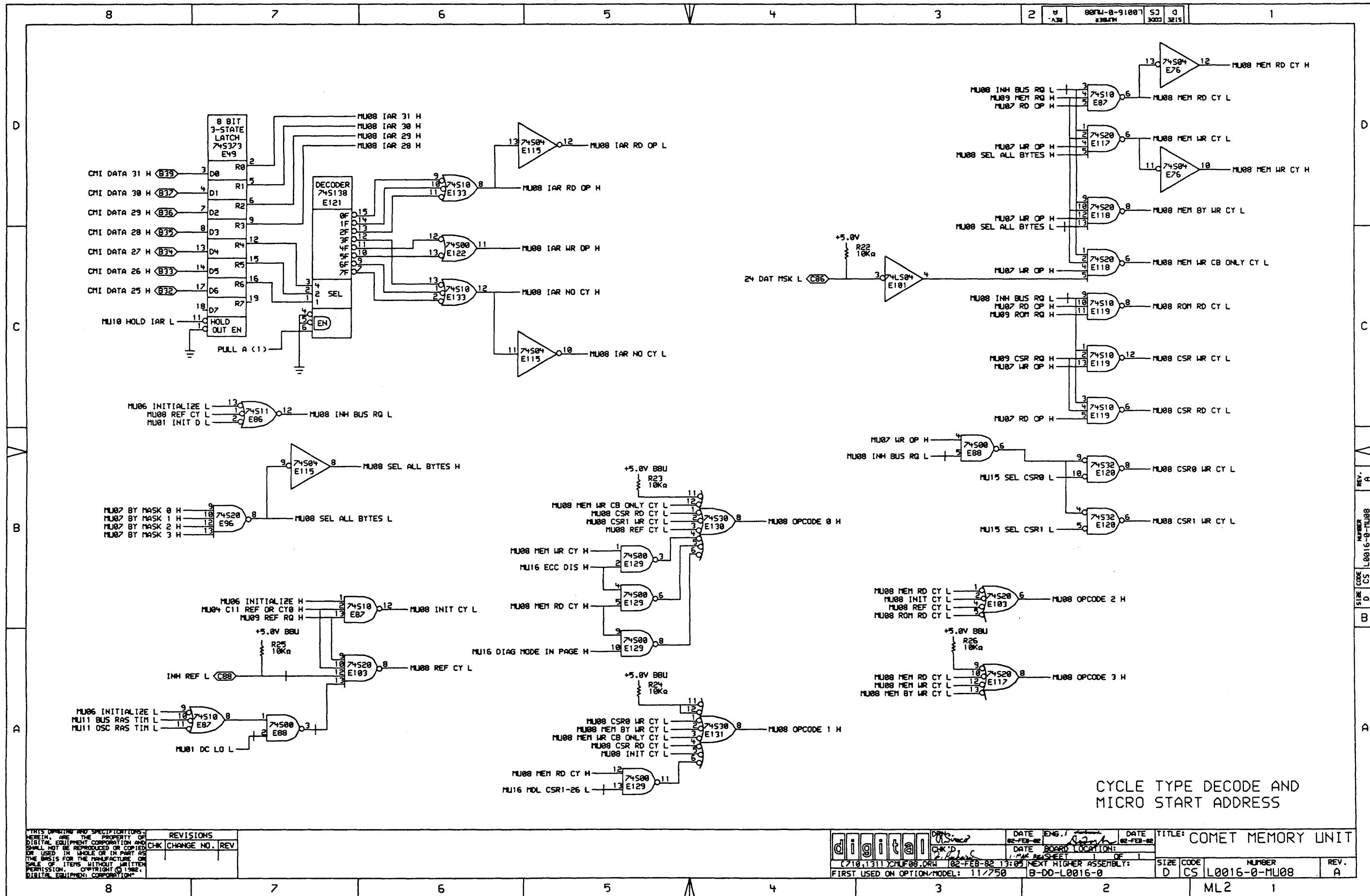
REFRESH COUNTER AND
ADDRESS MUXING

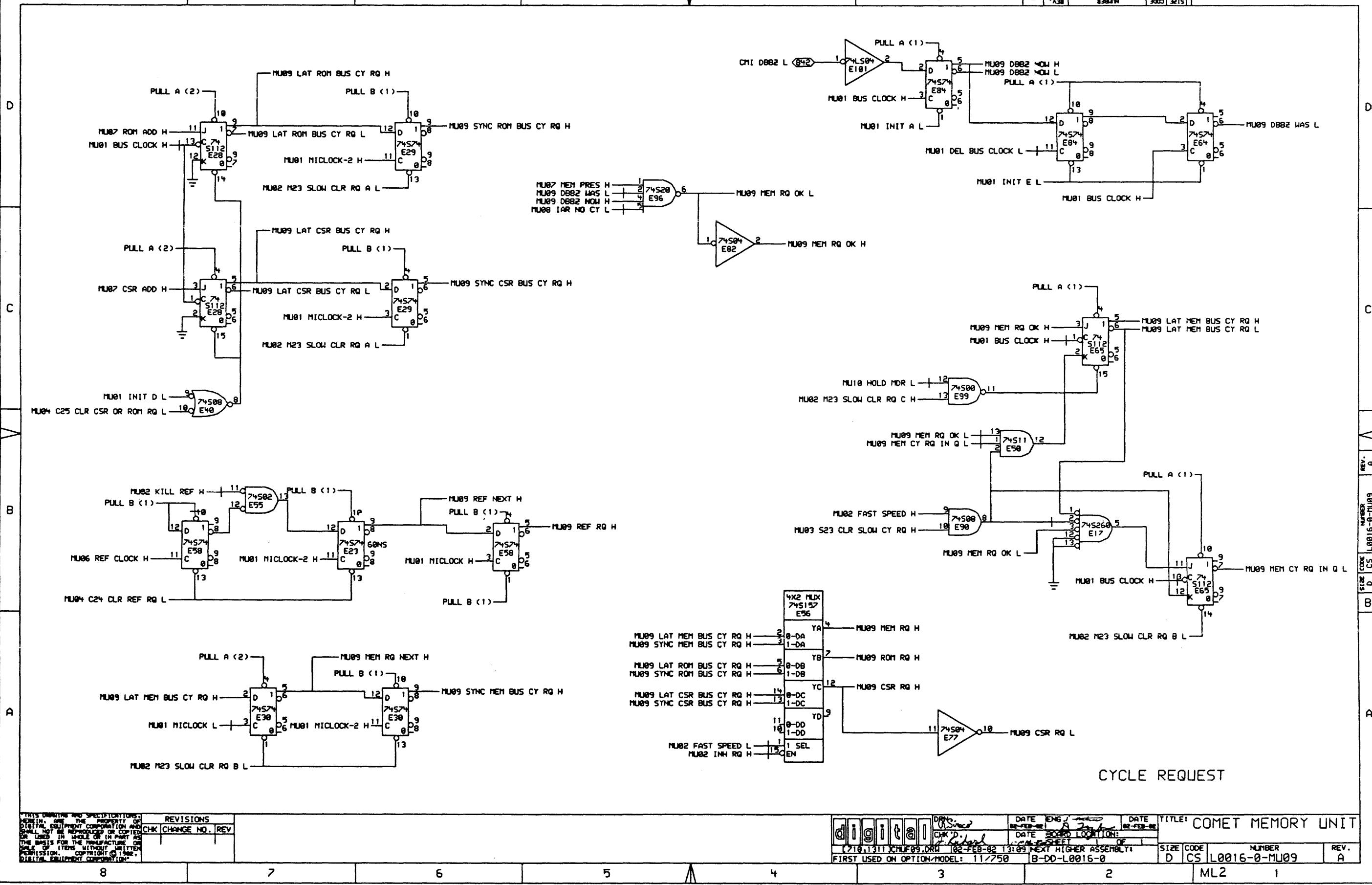
REVISIONS		
CHK	CHANGE NO.	REV.

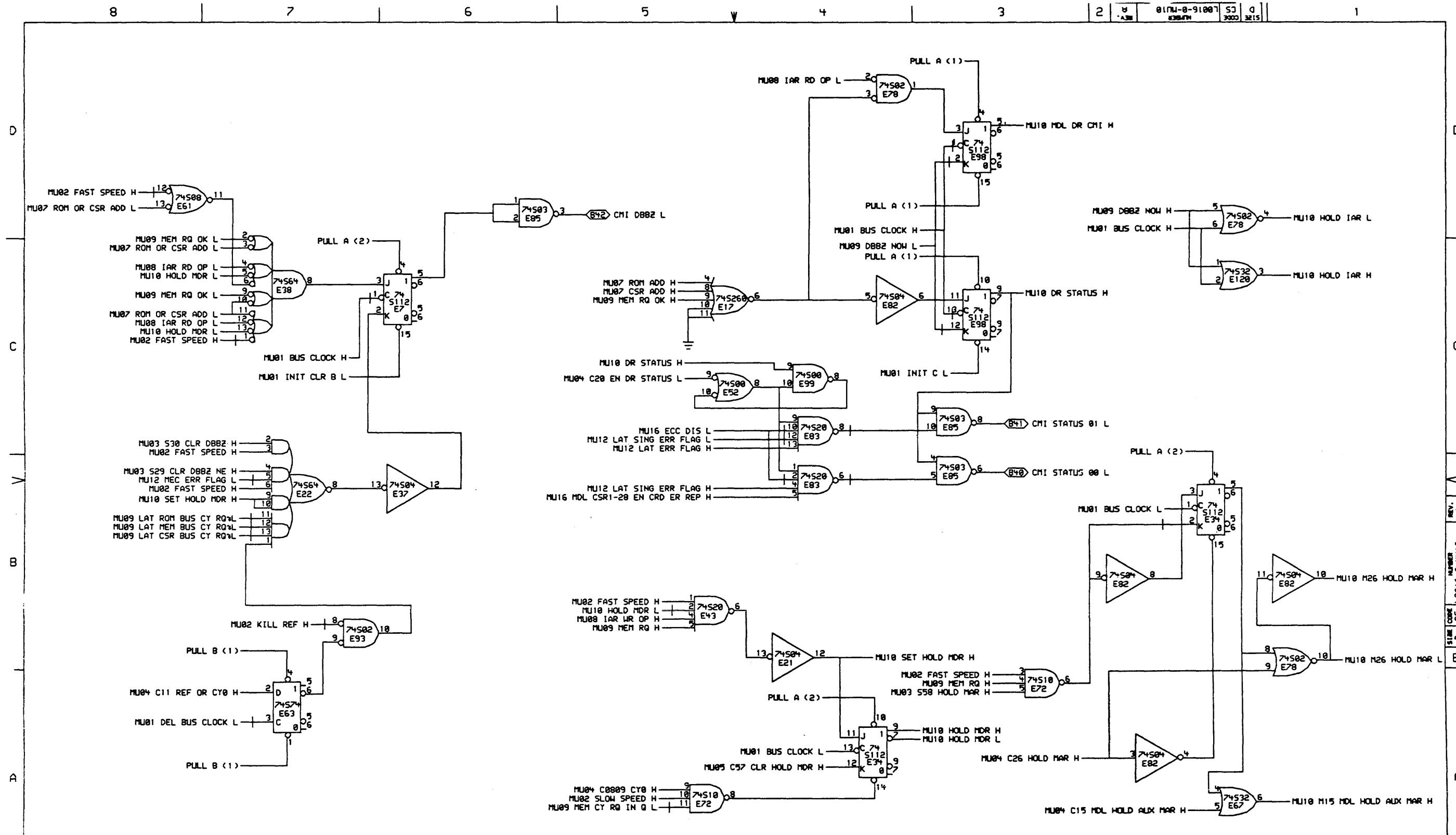
DATE ISSUED		DATE RE-REF'D	DATE ENG'D	DATE REV'D	TITLE:
CHK'D		DATE	BOARD LOCATION:	1/2	COMET MEMORY UNIT
(7101311)CHMU06.DRM	02-FEB-82 12:56	NEXT HIGHER ASSEMBLY			
FIRST USED ON OPTION MODEL:	11/750	B-DO-L0016-0			
SIZE	CODE	NUMBER			
D	CS	L0016-0-MU06			
		REV.			
		A			



ADDRESS LATCH AND DECODING







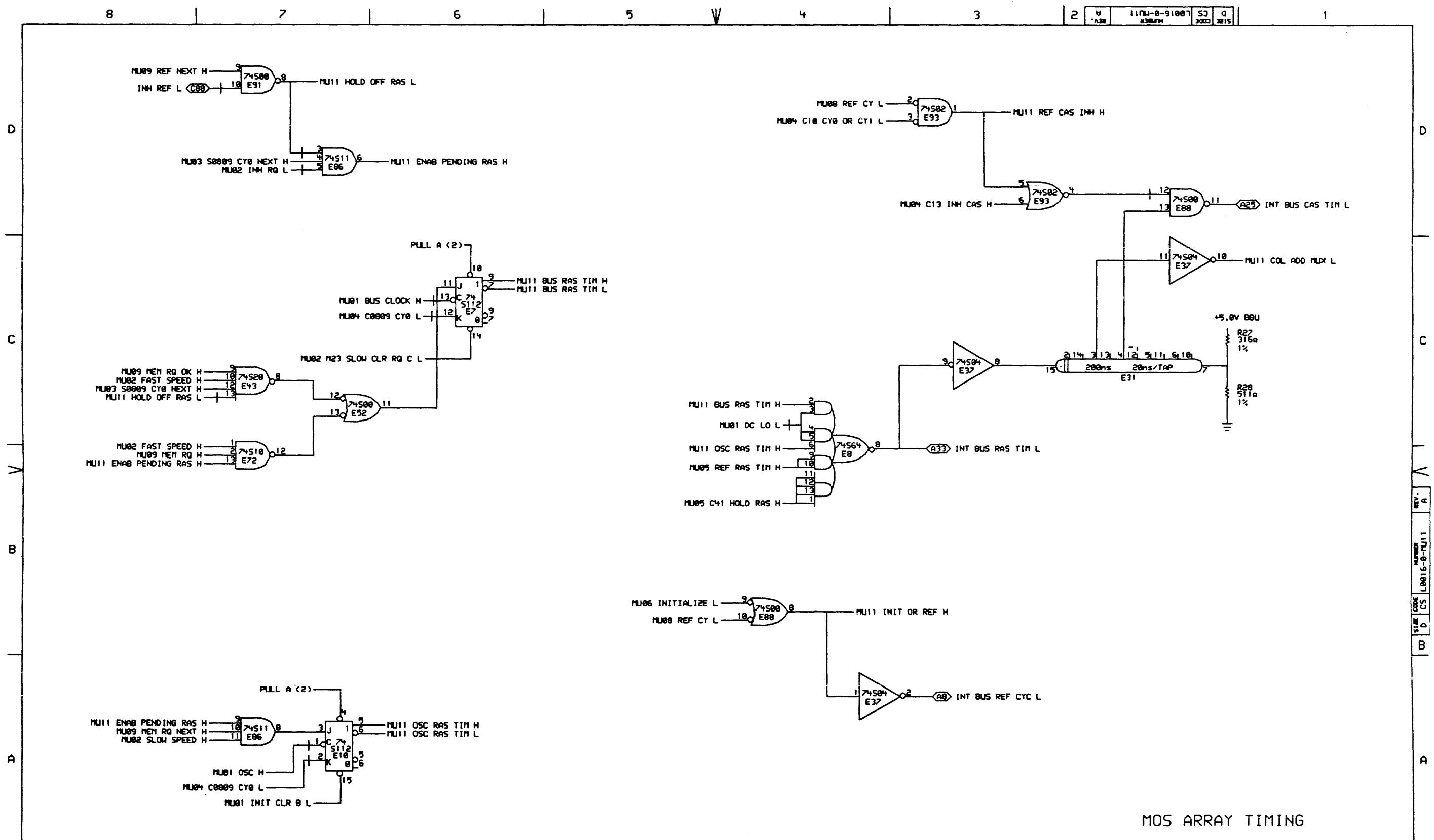
BUS CLOCKED SIGNALS

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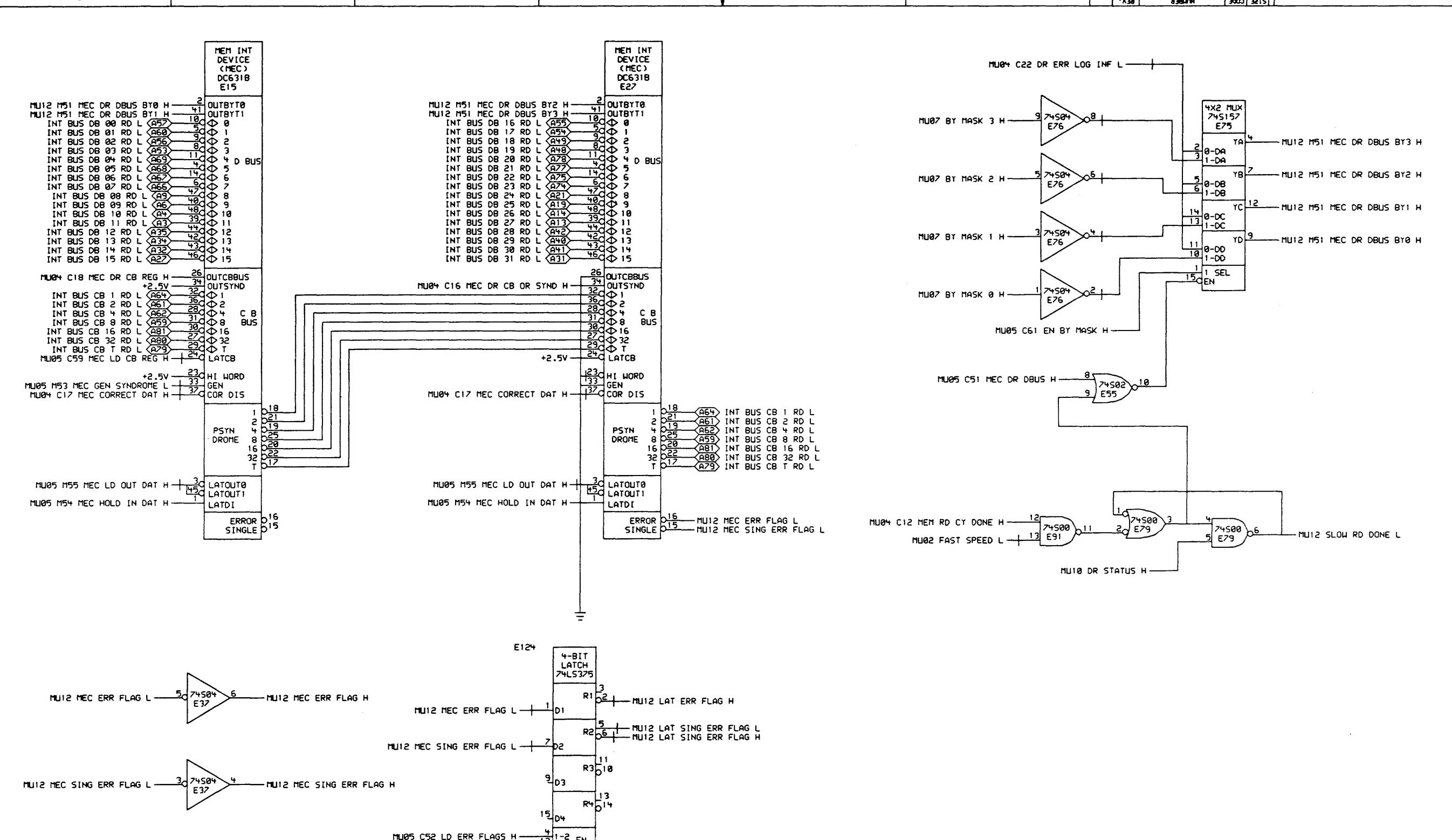
REVISIONS
K CHANGE NO. M



E¹ COMET MEMORY UNIT



MOS ARRAY TIMING



ERROR CORRECTION

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REVISONS	
CHK	CHANGE NO.
	REV

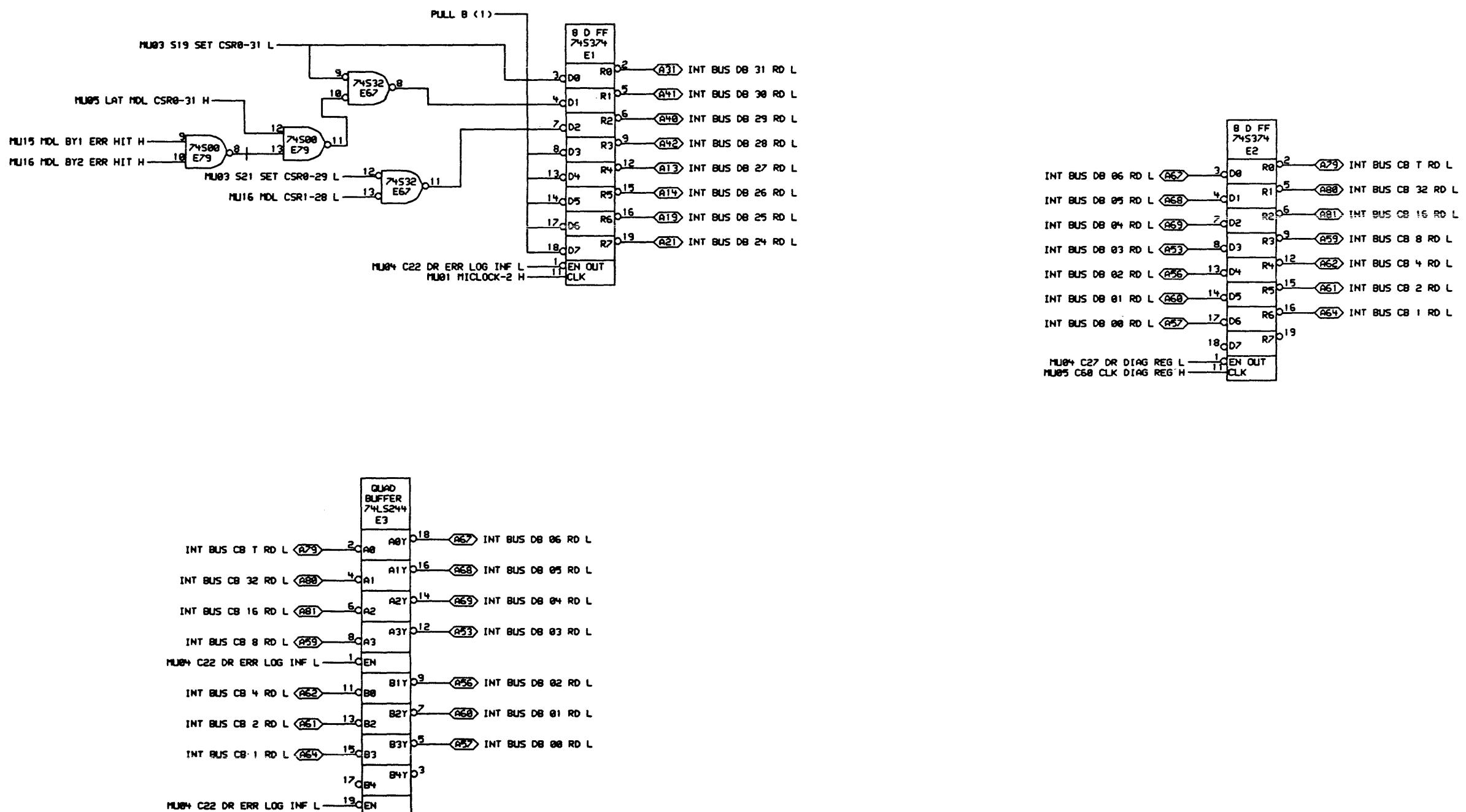
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D	CS	L0016-0-MU12	REV.	A
SIZE	CODE	NUMBER	REV.	4
D	CS	L0016-0-MU12	REV.	4
REV.	4	NUMBER	SIZE	CODE

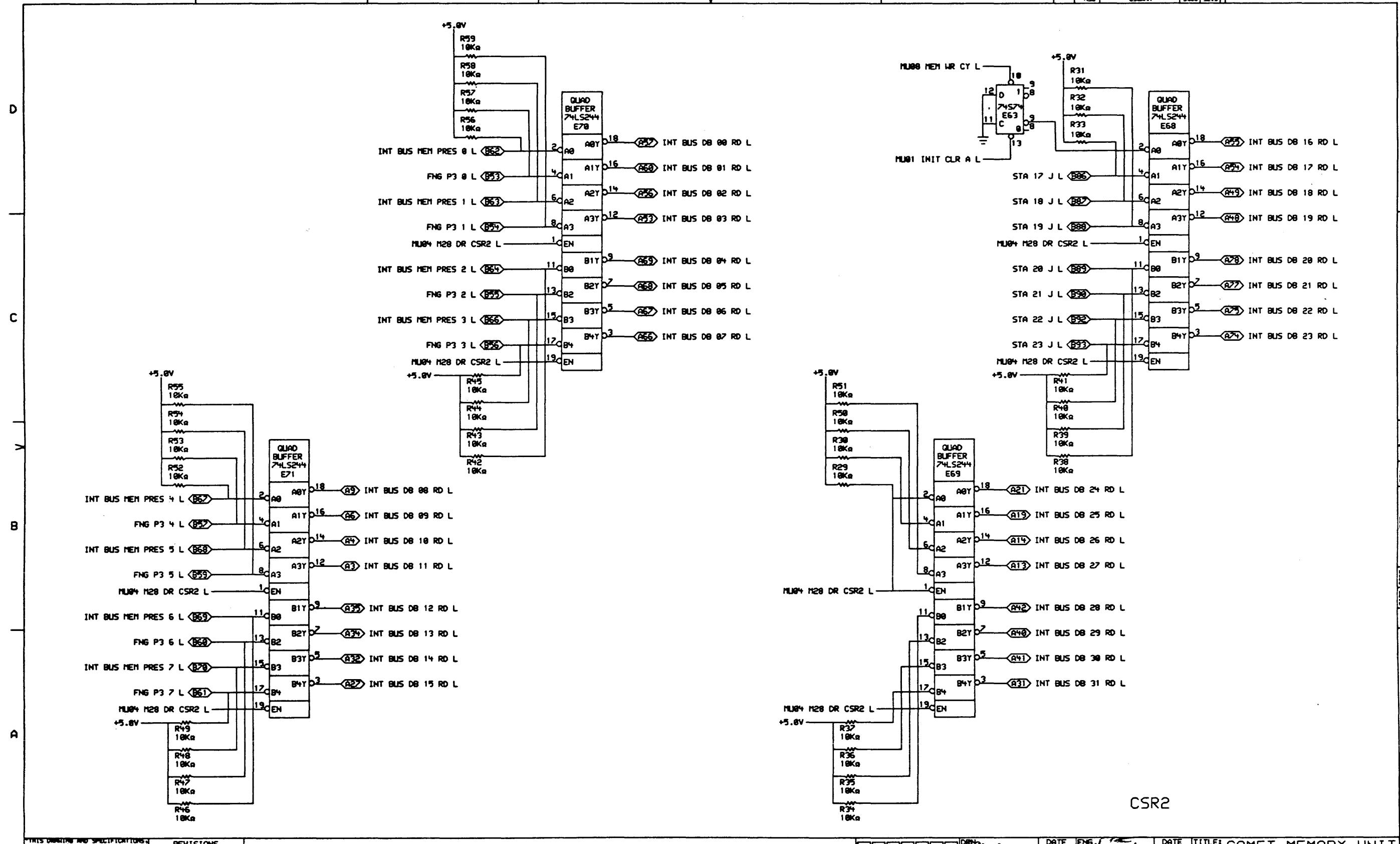
DATE: 25-FEB-82 ENG: A-274 DATE: 25-FEB-82 TITLE: COMET MEMORY UNIT

DATE: 25-FEB-82 BOARD LOCATION: 1 OF 1 SHEET: 1 OF 1

710,1311 JCHUF12.DRA 123-FEB-82 13:52 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750 1B-DD-L0016-0



DIAGNOSTIC REGISTER AND ERROR LOGGING



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REVISIONS	CHK	CHANGE NO.	REV.

REVISIONS
DATE 1/27/82 DATE 02-22-82
CHK D DATE BOARD LOCATION:
C710-1311 CMU14.DRW 182-FEB-82 13118 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750 B-DD-L0016-0
SIZE D CODE CS NUMBER L0016-0-MU14 REV. A

TITLE: COMET MEMORY UNIT

D

D

C

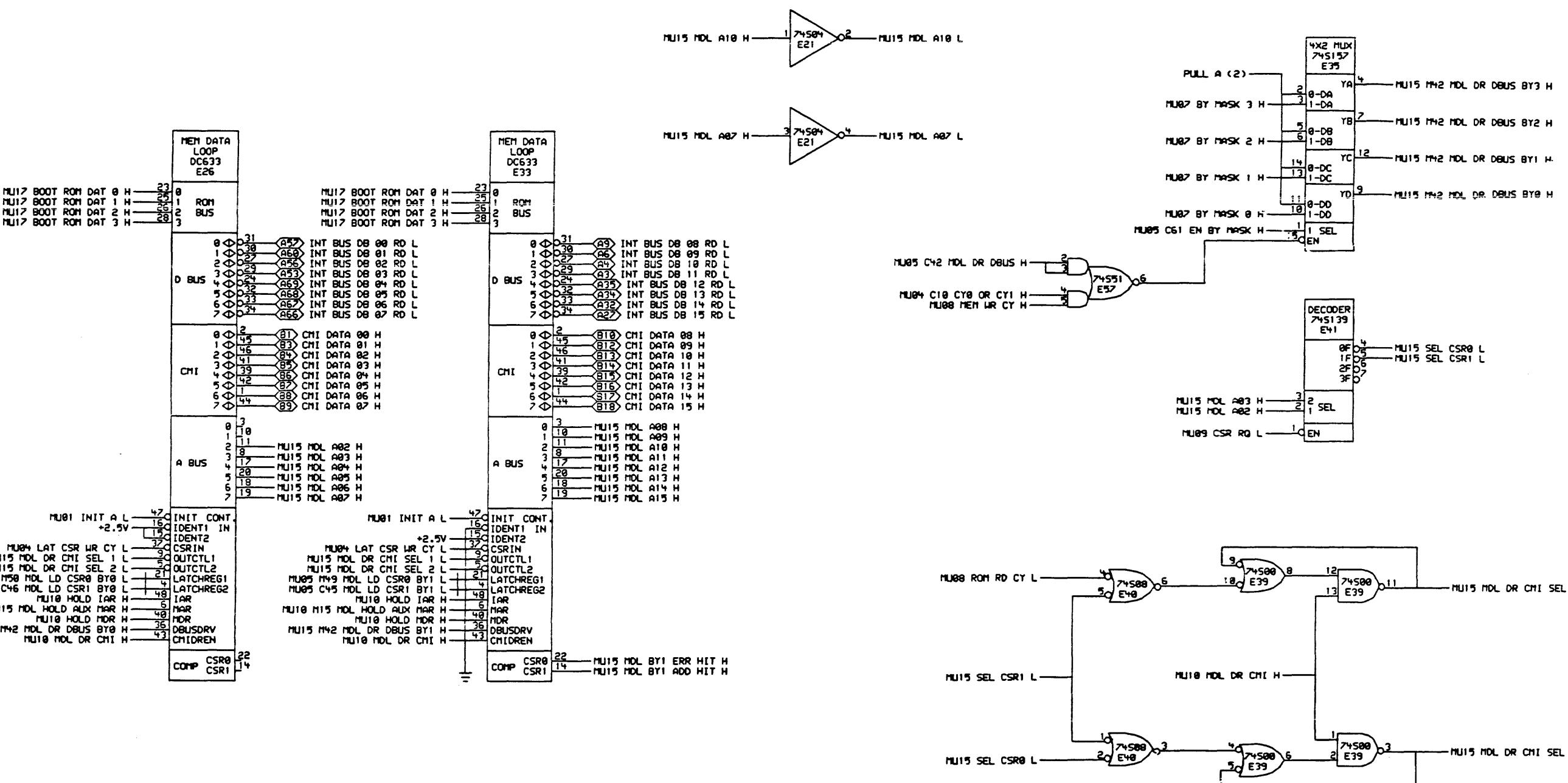
C

B

B

A

A



CMI DATA INTERFACING

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REVISIONS
CHK CHANGE NO. REV

DATE ENG. 2/21/82 DATE 02-FEB-82
DRAFTED BY: DATE 02-FEB-82
CHKD BY: DATE 02-FEB-82
REVIEWED BY: DATE 02-FEB-82
1/1 MAX SHEET OF 1
(710,131) XCHMUF15.DRW 102-FEB-82 13:19 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION MODEL: 11/750 B-DO-L0016-0

TITLE: COMET MEMORY UNIT
SIZE CODE D CS NUMBER L0016-0-MU15 REV. A

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	5014676-00	DRILL AND ETCH BD.	1	
2	2	1000011-00	47.0 MMF 100V 5%200PPM MICA	1	C4
3	3	1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	C1
4	4	1105275-00	D 672 TR= 15NS FIV= 60V SI	1	D1
5	5	1105871-00	1/4M5.1AZ1 = 5.1 1% .25W N	1	D2
6	6	1300229-00	100.0 .25 W 5.0 % CF	1	R65
7	7	1300309-00	390.0 .25 W 5.0 % CF	1	R18
8	8	1300316-00	470.0 .25 W 5.0 % CF	4	R3,R4,R66,R67
9	9	1300365-00	1.0 K .25 W 5.0 % CF	10	R8,R9,R12,R15-R17,R61-R64
10	10	1300479-00	10.0 K .25 W 5.0 % CF	43	R1,R2,R13,R19-R26,R29-R60
11	11	1301972-00	270.0 .25 W 5.0 % CF	1	R5
12	12	1302411-00	511.0 .25 W 1.0 % RN55D-F10	2	R10,R28
13	13	1302858-00	100.0 .25 W 1.0 % RN55D-F10	1	R7
14	14	1305420-00	33.20 K .25 W 1.0 % RN55D-F10	1	R14
15	15	1613120-00	DELAY= 200NS,10TAPS	2	E81,E31
16	16	1910532-00	74S00 NAND GATE-QUAD 2IN	12	E99,E39,E79,E52,E60,E100,E91, CONT E129,E88,E125,E126,E122
17	17	1910533-00	74S03 NAND GATE-QUAD 2IN,0	1	E85
18	18	1910534-00	74S04 INVERTER GATE-HEX 1I	8	E37,E115,E82,E76,E92,E89,E77,E21
19	19	1910536-00	74S10 NAND GATE-TRIPLE 3IN	5	E116,E133,E72,E87,E119
20	20	1910537-00	74S11 AND GATE-TRIPLE 3INP	2	E50,E86
21	21	1910539-00	74S20 NAND GATE-DUAL 4INPU	6	E103,E117,E118,E96,E83,E43
22	22	1910542-00	74S64 A-O-I GATE 4-2-3-2	3	E22,E38,E8
23	23	1910544-00	74S74 FF-D DUAL,EDGE TRIGG	8	E64,E63,E29,E30,E58,E84,E62,E74
24	24	1910544-01	74S74-60GG-D DUAL,EDGE TRIG	2	E53,E23
25	25	1910545-00	74S112 FF-JK DUAL,EDGE TRIG	7	E10,E34,E98,E7,E28,E65,E54
26	26	1910546-00	74S140 NAND GATE-DUAL 4INPU	2	E80,E73
27	27	1910547-00	74S153 MUX 1 OF 4 (DUAL)	6	E20,E13,E12,E11,E127,E128
28	28	1910548-00	74S157 MUX 1 OF 2 (QUAD)	4	E18,E56,E75,E35
29	29	1910550-00	74S174 FF-D HEX	1	E113

REVISION HISTORY		BASIC PART NO:	L0016	DRN:	V.MANGAUDIS	DATE:	25-FEB-82	D ! I ! G ! I ! T ! A ! L	
ENG!	ECO NUMBER	REV	SECTION A OF A					TITLE	PARTS LIST
P.NIL0016-ML001		A	SECTION,VARIATION INDEX	CHK'D:	J.RICHARD	DATE:	25-FEB-82	COMET MEMORY UNIT	
		B	[A] 00 [B] [C] [D] [E] [F] [H] [J] [K] [L] [M] [N]	DES.ENG:	P.NATUSCH	DATE:	16-FEB-81	DOCUMENT NUMBER	
				RESP.ENG.:	P.NATUSCH	DATE:	18-FEB-81	SIZE	CODE
				MFG.ENG.:	D.TAYLOR	DATE:	18-FEB-81	K	NUMBER
				ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
				E-UA-L0016-0-0		#B-DD-L0016-0		Z1683B.PLS	15
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AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A2 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
30	30	1910645-00	75452 DRIVER, FERIPH, DUAL,	1.	E114
31	31	1910951-00	9602 ONE SHOT-DUAL	1	E59
32	32	1911469-00	DEC 8640 RECEIVER, BUS, QUAD, U	1	E132
33	33	1911675-00	74S138 DECODER/DEMUX 3-8 LIN	1	E121
34	34	1911676-00	74S139 DECODER-DUAL TWO-INP	1	E41
35	35	1911712-00	74S51 AND-OR GATE-INVERT D	1	E57
36	36	1911983-00	74S133 NAND GATE-POSITIVE 1	1	E4
37	37	1912096-00	DEC 74S86 XOR GATE, QUAD 2IN	1	E48
38	38	1912388-00	74S02 NOR GATE-QUAD 2IN, PO	5	E102, E104, E78, E55, E93
39	39	1912389-00	74S08 AND GATE-QUAD 2IN, PO	3	E61, E40, E90
40	40	1912803-00	LS04 INVERTER GATE, HEX	1	E101
41	41	1912817-00	LS157 MUX 1 OF 2(QUAD)	1	E66
42	42	1912871-00	LS375 LATCH	1	E124
43	43	1913340-00	74S32 OR GATE-QUAD 2IN	2	E67, E120
44	44	1913670-00	74S373 LATCH 8BIT TRASP TR	4	E6, E9, E49, E51
45	45	1913671-00	74S374 FF-D OCTAL TRISTATE	9	E1, E2, E142, E97, E95, E94, E123, CONT E134, E135
46	46	1914085-00	74S260 NOR GATE-DUAL, POS	3	E16, E17, E36
47	47	1914086-00	74S30 NAND GATE-POS 8IN	2	E130, E131
48	48	1914451-00	74LS393 COUNTER, BINARY, 4BIT	3	E19, E24, E25
49	49	1914705-00	DC 631B BIPOLAR, LS, 400-GATE	2	E15, E27
50	50	1914707-00	DC 633C BIPOLAR, LS, 400-GATE	4	E14, E26, E32, E33
51	51	1914724-00	DC 650 BIPOLAR, LS, 400-GATE	1	E42
52	52	1915193-00	LS244 DRIVER, LINE, OCTAL, T	5	E3, E68, E69, E70, E71
53	53	23000A2-05	*** THIS ITEM IS NOT USED ***	-	
54	54	1110864-00	LED 2MCD@10MA	1	D4
55	55	1114384-00	LED 105MW 35MA GREEN	1	D3
56	56	1016549-00	.47 MFD 10V +50-10% AL EL	1	C2
57	57	1001796-00	.50 MFD 25V +75-10% AL EL	1	C3
58	58	1304857-00	237.0 .25 W 1.0 % RN55D-F10	1	R6
59	59	1304863-00	316.0 .25 W 1.0 % RN55D-F10	2	R11, R27
60	60	1012784-00	.047 MFD 50V +80-20% CER	52	C5-C56
61	61	1012084-01	.8 MFD 25V +75-10% AL EL	13	C65-C69, C100-C107
62	62	1215006-02	SKT, IC 16PIN DIP TIN SOLD	4	XE44-XE47
63	63	1215924-00	SKT, IC 48PIN DIP GOLD FOR	7	XE14, XE15, XE26, XE27, XE32, XE33, CONT XE42
64	64	9000024-01	EYELET, ROLLED 0.1210DX0.192	12	
65	65	E-UA-L0016-0-0	UNIT ASSEMBLY		REF
66	66	E-MD-5014676-0-0	DRILL & ETCH DRAWING		REF
67	67	D-CS-L0016-0-1	CIRCUIT SCHEMATIC		REF
68	68	E-EC-5014676-0-0	ETCH CUT DRAWING		REF
69	69	1216988-02	HANDLE, MODULE, HEX TWO EJECTORS	1	
70	70	1215935-00	GASKET, THERMAL SILICONE	7	
71	71	1215936-00	HEAT SINK, 2.200X.585	7	
72	72	B-DD-L0016-0	DRAWING DIRECTORY		REF
73	73	D-TD-L0016-0-3	L0016 TIMING CHARTS		REF
74	74	23603A2-00	A2-05	1	E112
75	75	23604A2-00	A2-05	1	E111

TITLE					SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV		
D	I	G	I	T	A	L	COMET MEMORY UNIT		K	PL	L0016-0-DBP	B

AUTOMATED BY FRTLST.3P(44)

P A R T S L I S T

SHEET A3 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
76	76	23605A2-00	A2-05	1	E110
77	77	23606A2-00	A2-05	1	E109
78	78	23607A2-00	A2-05	1	E108
79	79	23608A2-00	A2-05	1	E107
80	80	23630A2-00	A2-05	1	E106
81	81	23610A2-00	A2-05	1	E105
82	82	23611A2-00	A2-05	1	E141
83	83	23612A2-00	A2-05	1	E140
84	84	23613A2-00	A2-05	1	E139
85	85	23614A2-00	A2-05	1	E138
86	86	23615A2-00	A2-05	1	E137
87	87	23616A2-00	A2-05	1	E136
88	88	23905A9-00	A9-01	1	E44
89	89	23906A9-00	A9-01	1	E45
90	90	23948A9-00	A9-01	1	E46
91	91	D-BD-L0016-0-4	L0016 BLOCK DIAGRAM	REF	
92	92	D-FD-L0016-0-2	FLOW DIAGRAM	REF	

8

7

6

5

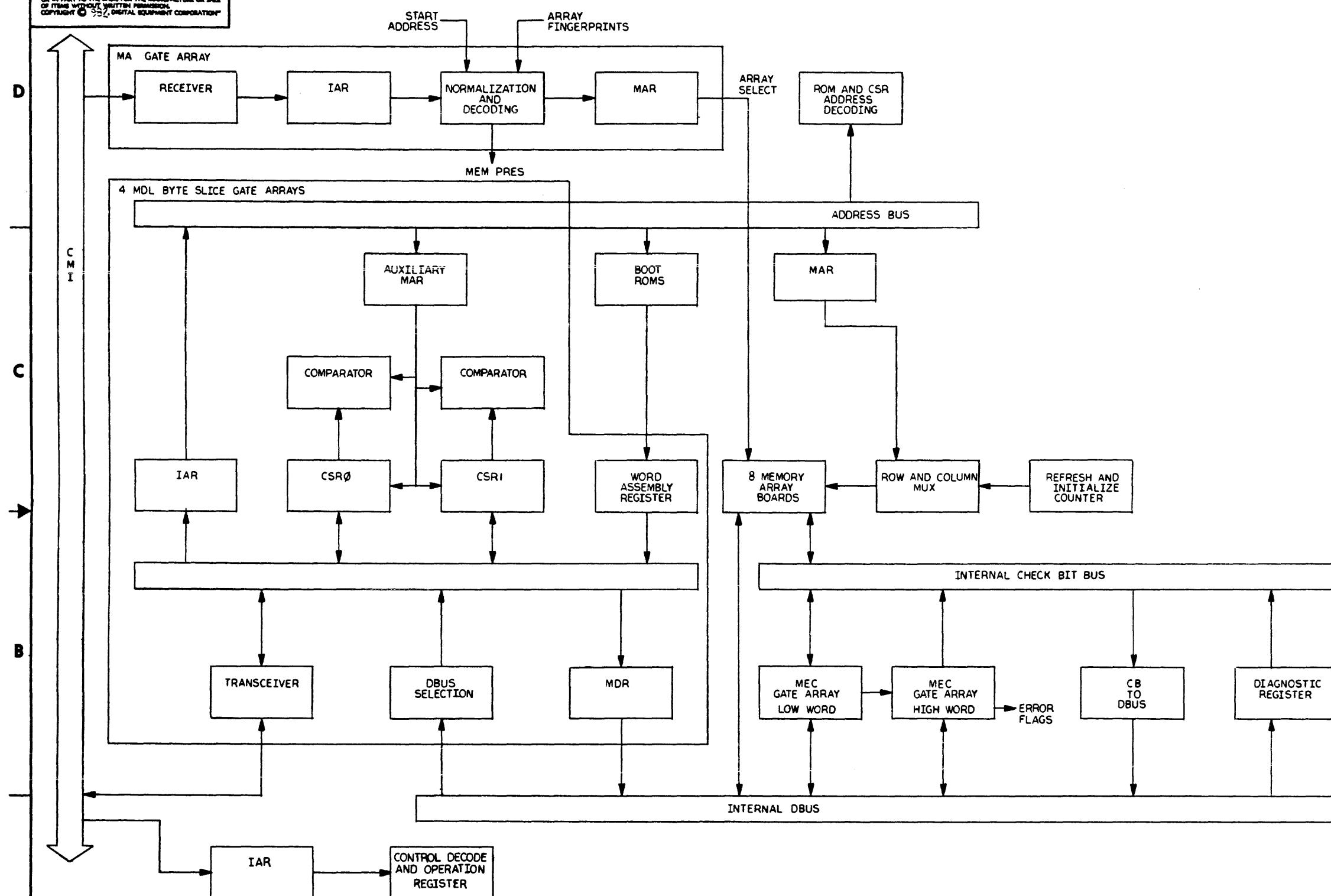
4

3

1

D BD L0016-0-4 A 2

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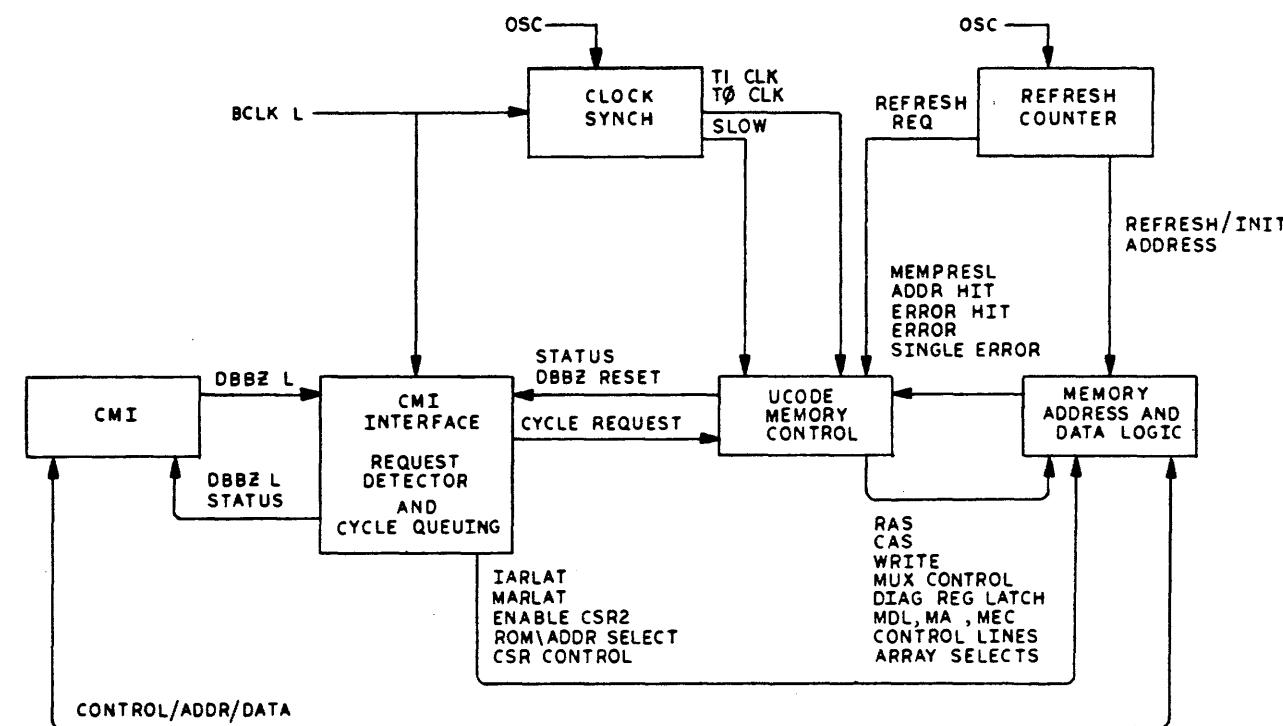


DATA AND ADDRESS
BLOCK DIAGRAM

DRN: J. Vincent 1976031	FIRST USED ON	digital
CHK'D: T. Lewis 4/1/82	TITLE	
ENG: T. Lewis 4/1/82	COMET	
PROJ. ENG: J. P. Lewis 4/1/82	MEMORY UNIT	
PROD: R. DeLoach 4/24/82	NEXT HIGHER ASSY.	
SCALE: 1/4	SIZE CODE: D BD	NUMBER: L0016-0-4
SHEET: 1 OF 2	DIST:	REV: A

REF ID: A
CHG: 1
REF ID: B
CHG: 1
REF ID: C
CHG: 1
REF ID: D
CHG: 1

8 7 6 5 4 3 2 ML2 1



CONTROL LOGIC
BLOCK DIAGRAM

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE			SIZE	CODE	NUMBER	REV.
COMET MEMORY			D	BD	L0016-0-4	A
SCALE	—4—	SHEET	2	OF	2	DIST.

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2-0-0100-2
FD 2000 2020
A

D

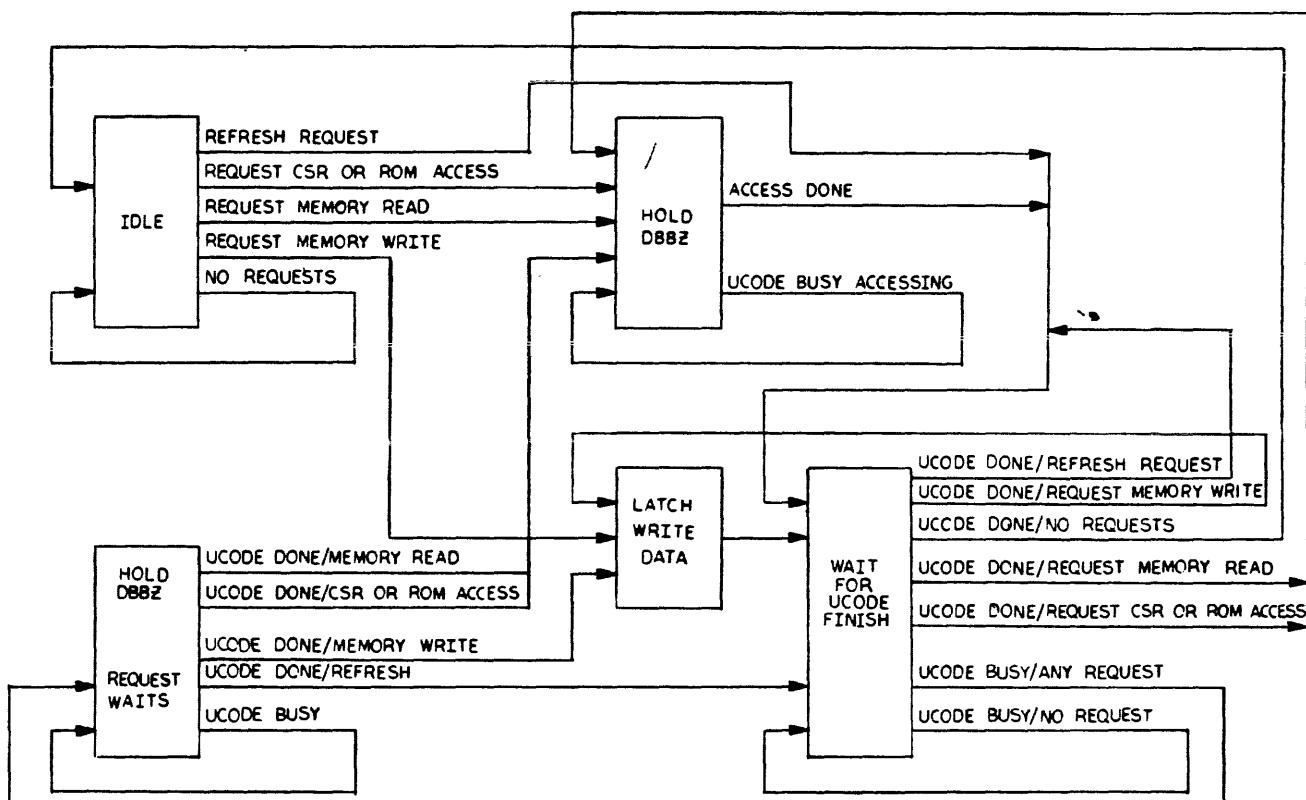
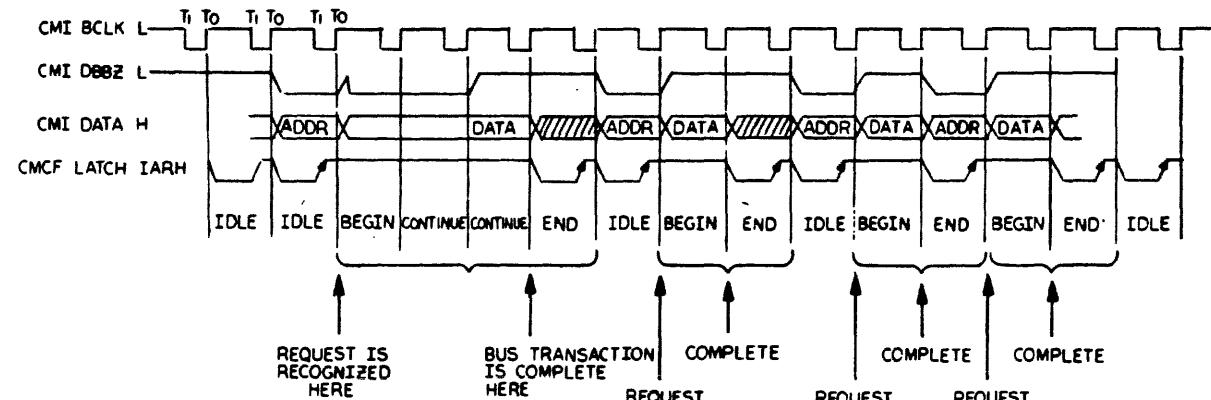
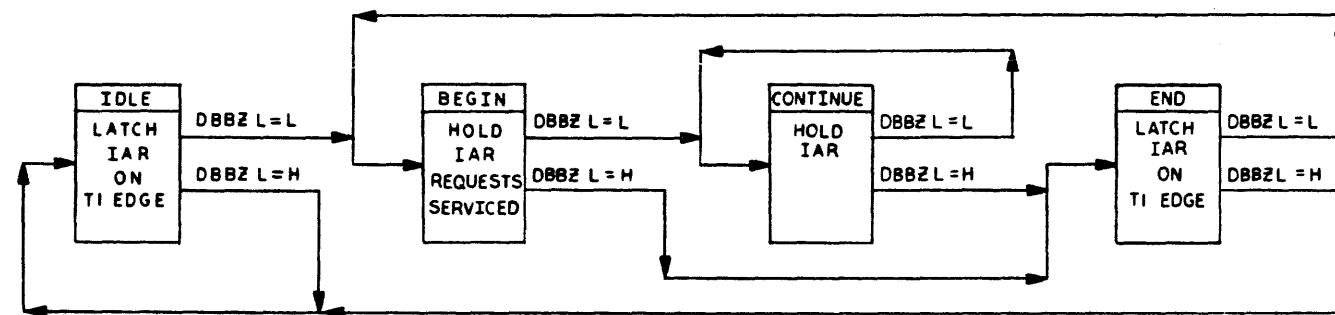
D

C

B
REV. A
DATE 02/16/81
NUMBER D0016-0-2
SHEET 1 OF 1 DIST.

B

A



NOTE: AS THE REQUEST DETECTOR ENTERS THE BEGIN STATE, THIS MACHINE ENTERS THE STATE TO WHICH THE REQUEST POINTS. SIMULTANEOUSLY, THE UCODE MEMORY CONTROL WILL BEGIN AT THE STARTING ADDRESS STATE OF THE REQUESTED CYCLE IF IT IS NOT BUSY.

CMI INTERFACE FLOW

DRN. J. Wilson	19FEB81	FIRST USED ON	digital
CHK'D. P. Baker	3/2/81	TITLE COMET	
ENG. J. Fetter	3/2/81	MEMORY UNIT	
PROJ. ENG. J. Baker	3/2/81		
PROD. H. Parker	3/11/81		
NEXT HIGHER ASSY.			
SCALE	1	CODE	D FD
SHEET	1 OF 1	NUMBER	L0016-0-2
		REV.	A

REVISIONS
CHNG. NO.
CHNG. DATE
CHNG. BY

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

D

D

C

C

V

V

B

B

A

A

CMI STATUS <01:00> L (PG MU10)

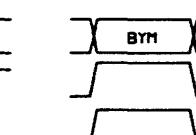
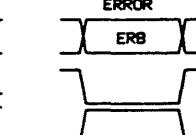
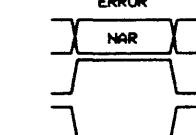
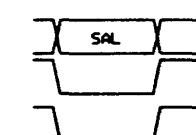
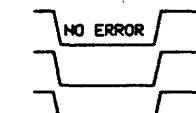
CMI STATUS 00 L (PG MU10)

CMI STATUS 01 L (PG MU10)

MU03 C0<9:8> BRANCH H

MU03 C08 BRANCH H

MU03 C09 BRANCH H



STARTING
ADDRESS
LOGIC

NEXT
ADDRESS
ROM

ERROR
BRANCH

BYTE
MASK

STATUS CODES AND MICROCODE
ADDRESS SELECTION CODES

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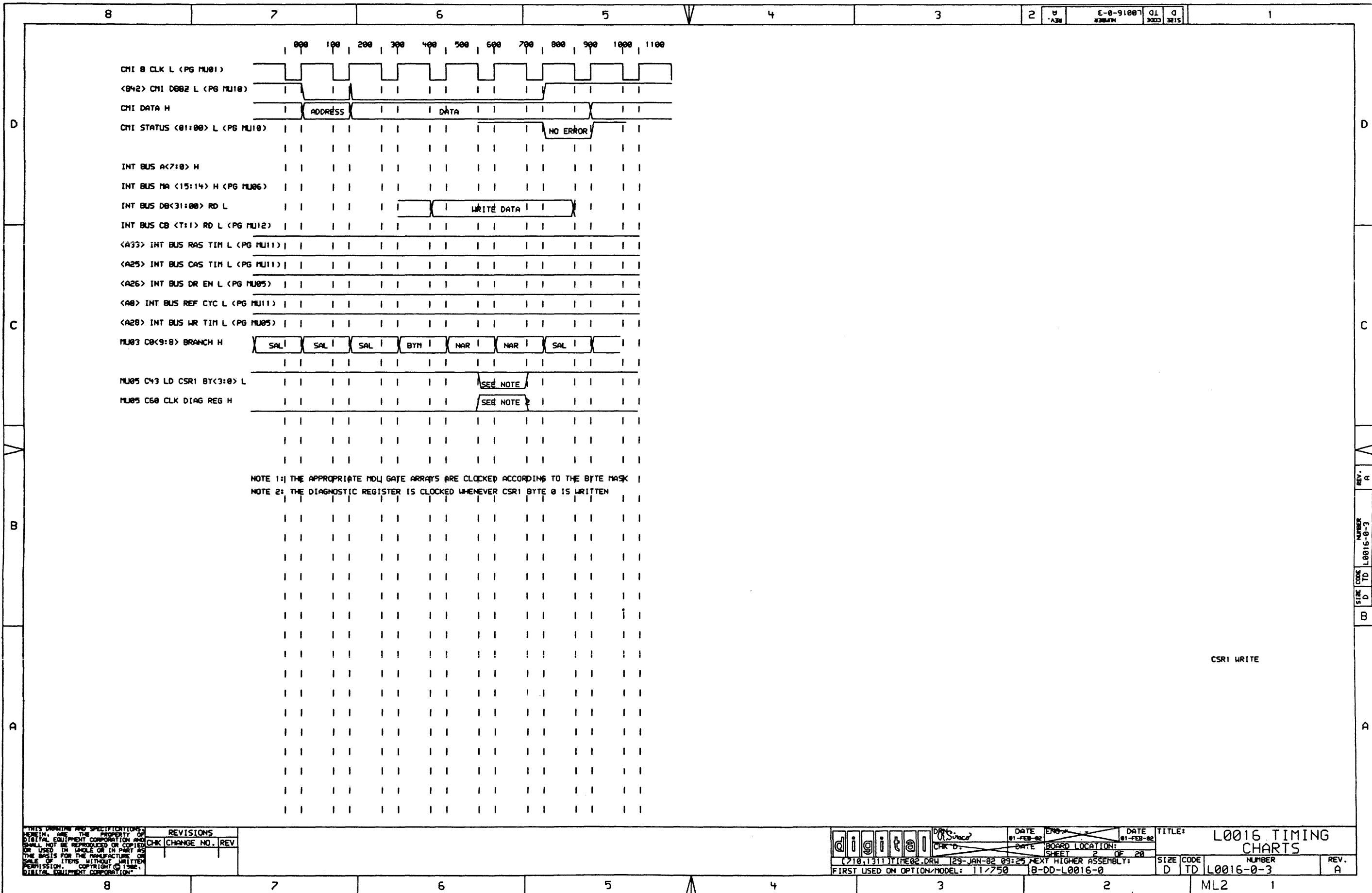
REVISIONS
CHK CHANGE NO. REV

digital	DRN: 01-0000	DATE: 01-FEB-82	ENG: A	DATE: 01-FEB-82	TITLE: L0016 TIMING CHARTS
CHK'D	DATE:	BOARD LOCATION:			
L710.13111.TIM01.DRW 29-JAN-82 09:21		1-YEAR SHEET OF 28			
FIRST USED ON OPTION/MODEL: 11/750		NEXT HIGHER ASSEMBLY: B-DD-L0016-0		SIZE	CODE
				D	TD
				L0016-0-3	REV. A

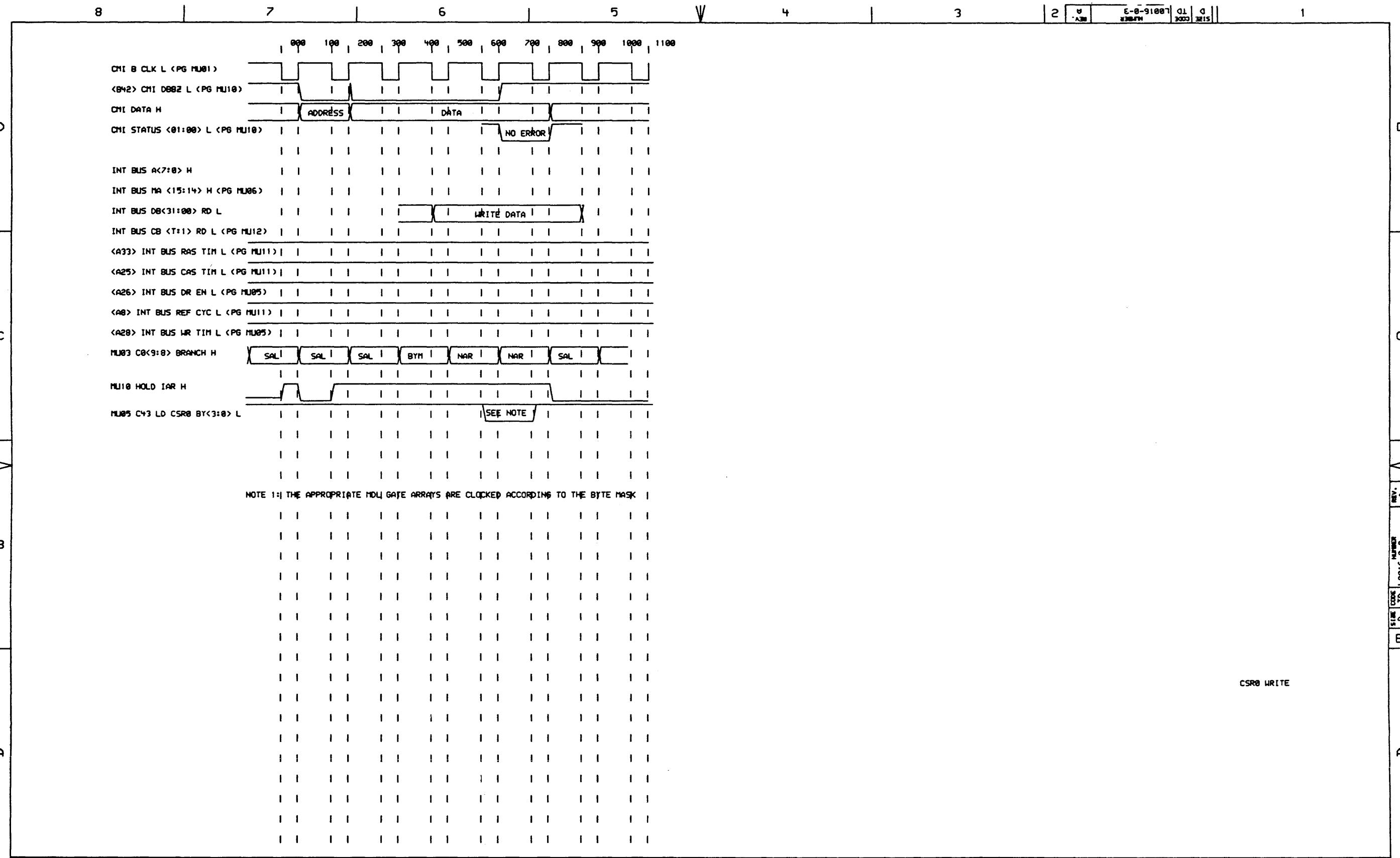
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

ML2

1



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7	PERMISSION OF DIGITAL EQUIPMENT	
8	CORPORATION, DIGITAL EQUIPMENT	

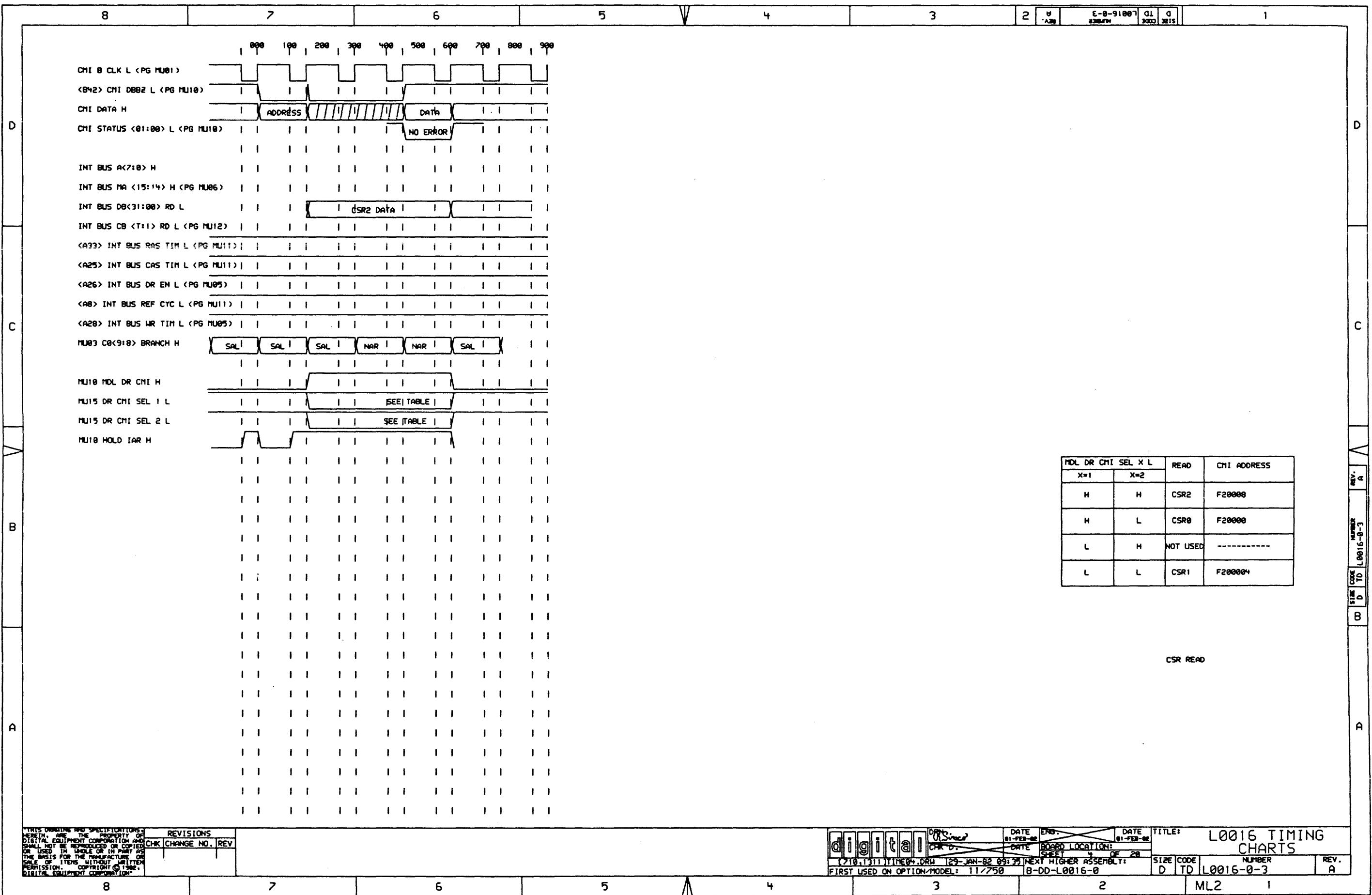


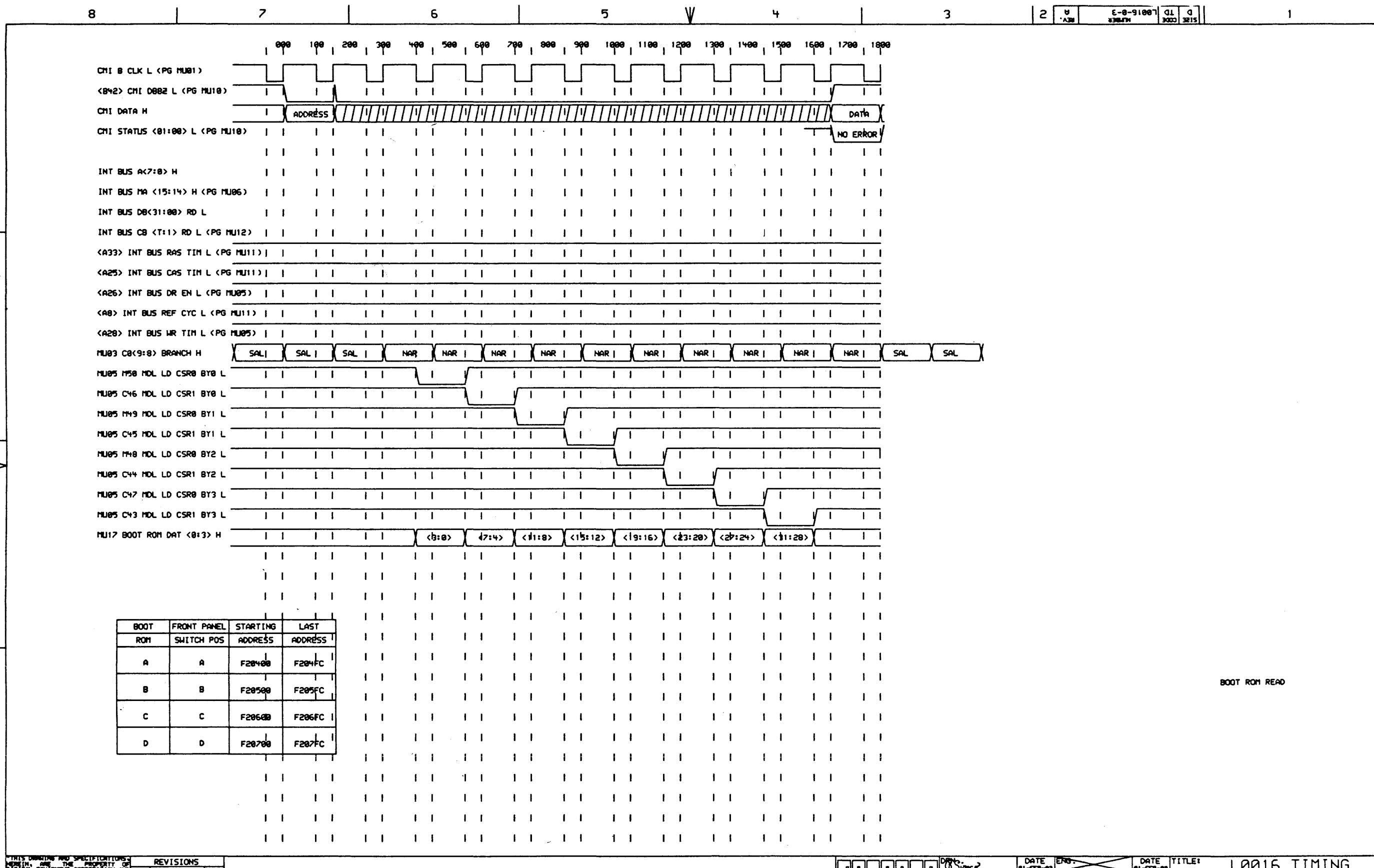
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CHK	CHANGE NO.	REV.

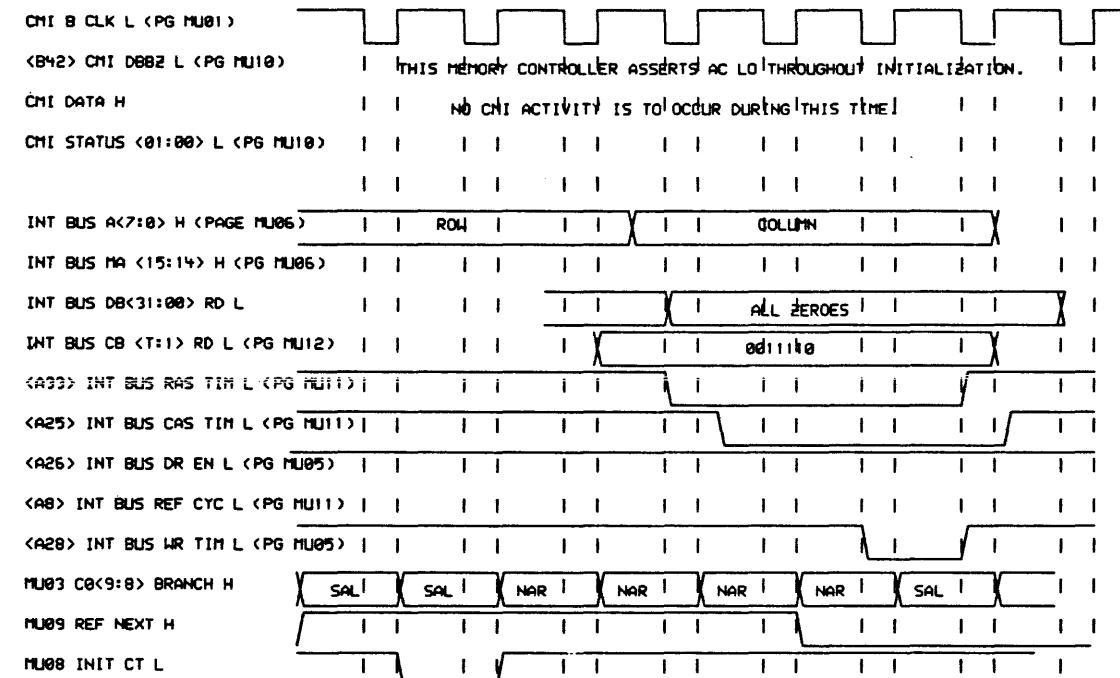
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CHK D. DATE BOARD LOCATION: SHEET 3 OF 20
L710.1311.LTIME03.DRW 129-JAN-82 09:36 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750 B-DD-L0016-0
SIZE CODE NUMBER D TD L0016-0-3 REV. A

8 7 6 5 4 3 2 1 ML2 1





000 100 200 300 400 500 600 700 800 900 1000 1100

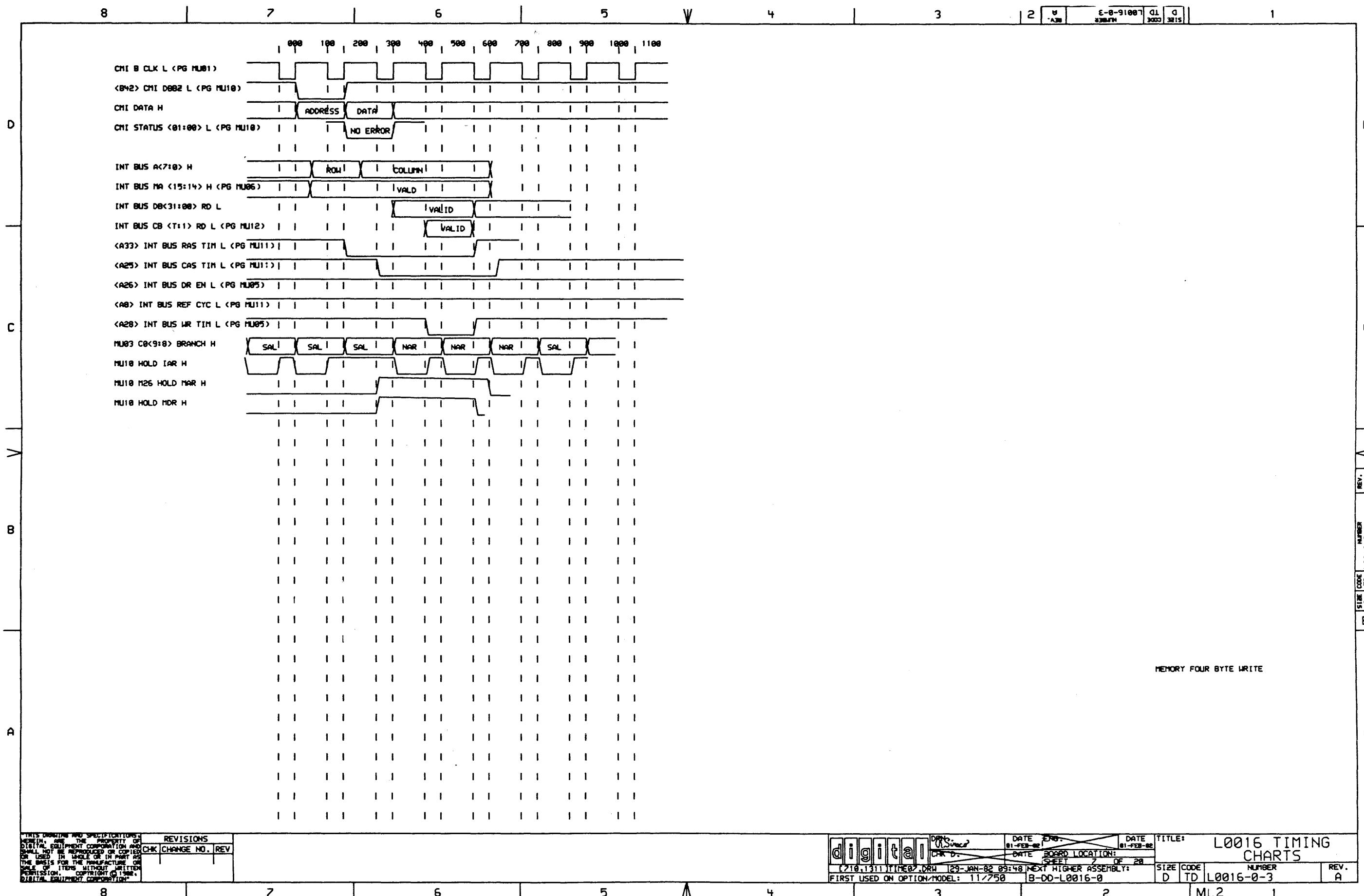


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CHK CHANGE NO. REV

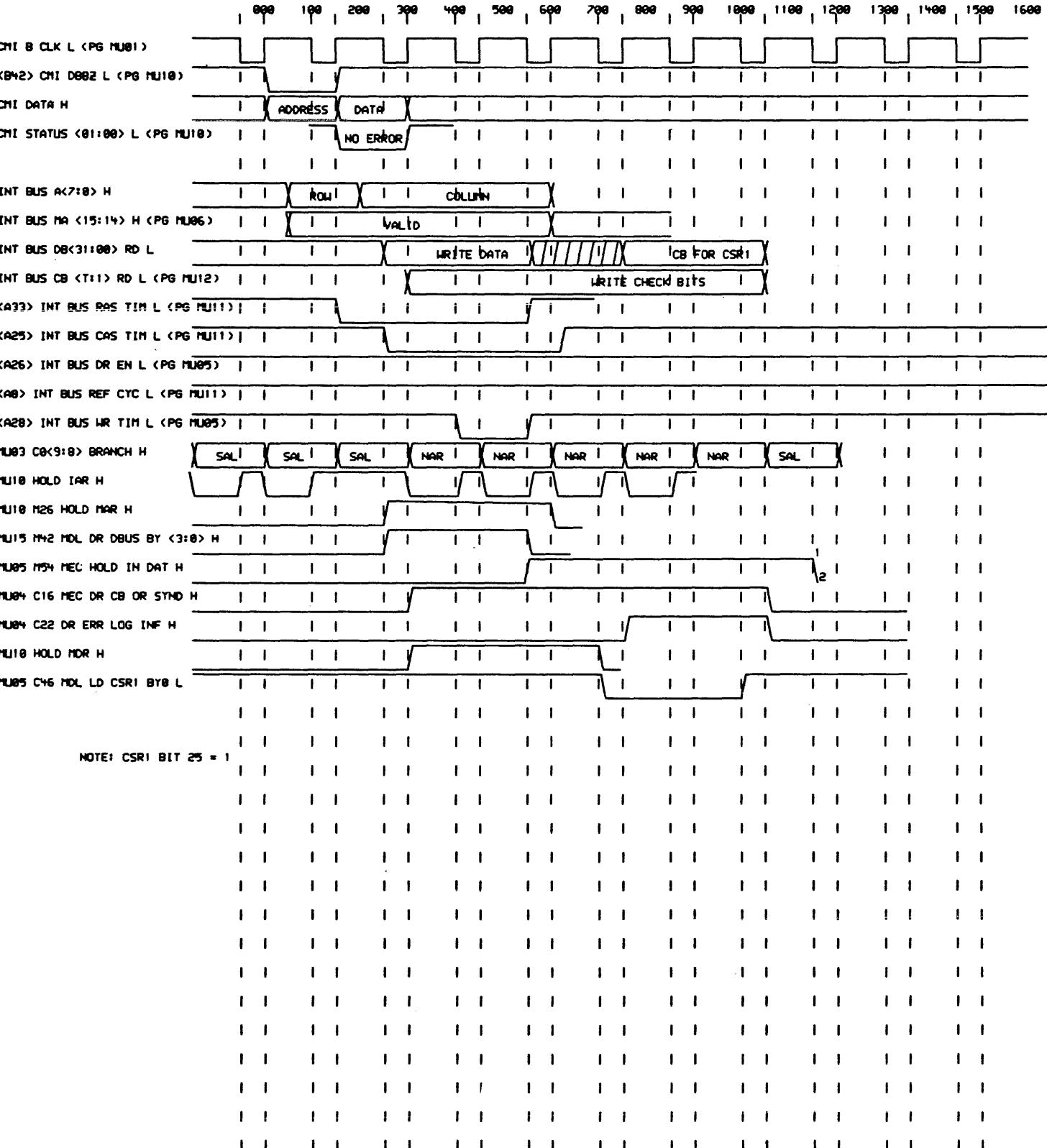
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CHK D.	DATE 01-FEB-82	BOARD LOCATION: SHEET 6 OF 28			
L710.1311 ITIME06.DRW 29-JAN-82 09:45		NEXT HIGHER ASSEMBLY: B-DO-L0016-0	SIZE CODE D TD	NUMBER L0016-0-3	REV. A
FIRST USED ON OPTION/MODEL: 11/750					



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REVISIONS	
CHG	CHANGE NO.
	REV.

digital	DATE EXP'D. 01-FEB-82	DATE END. 01-FEB-82	TITLE: L0016 TIMING CHARTS
CHG D.	DATE BOARD LOCATION: SHEET 7 OF 28		
<710,1311> TIME 02, DRW 29-JAN-82 09:48		NEXT HIGHER ASSEMBLY: B-00-L0016-0	
FIRST USED ON OPTION/MODEL: 11/750		SIZE CODE D TD L0016-0-3	REV. A

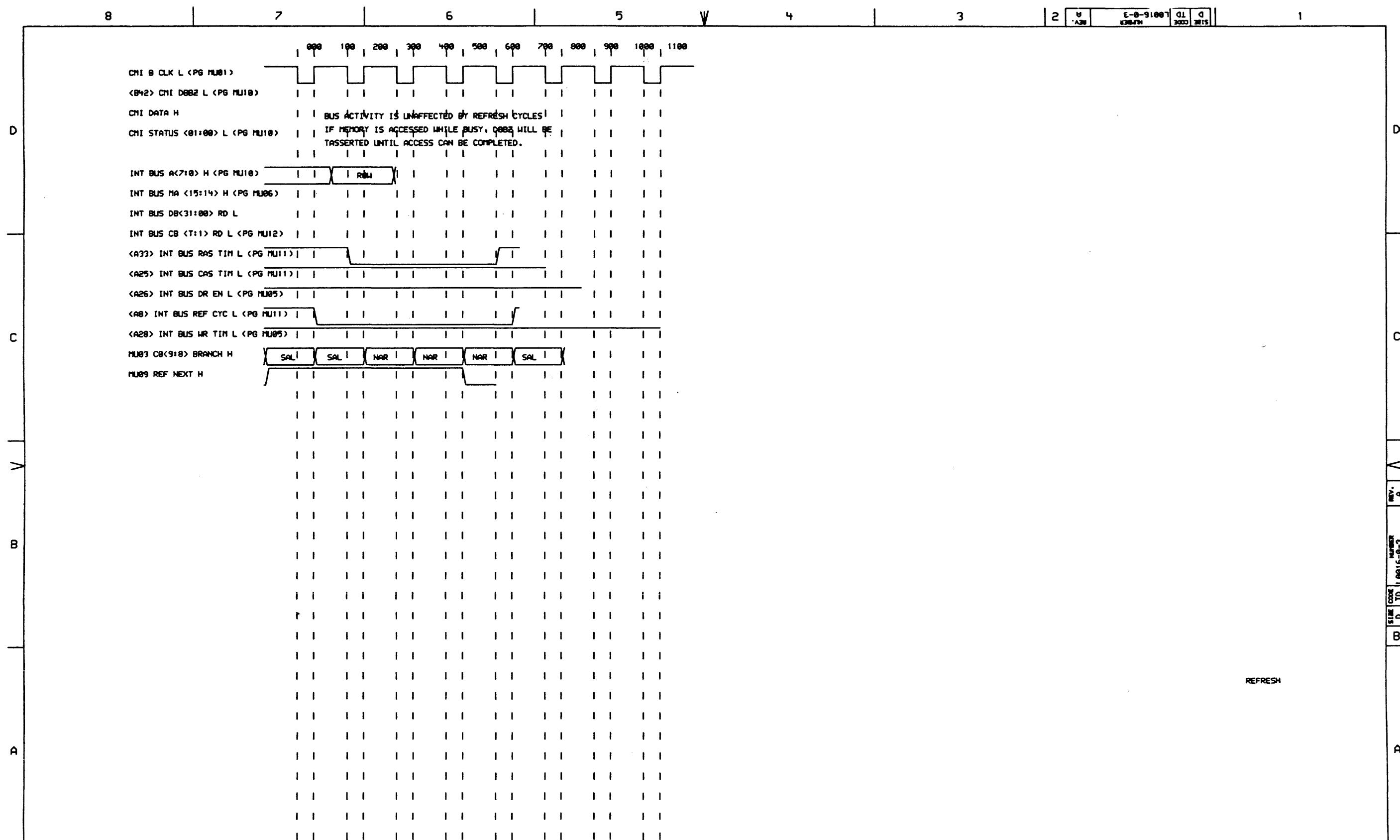


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CHK CHANGE NO. REV

digital	DATE ISSUED	DATE END	DATE	TITLE: L0016 TIMING CHARTS	
CHK D.	01-FEB-82	01-FEB-82		NUMBER:	REV.:
1710.131111TME08.DRW 129-JAN-82 09:53		NEXT HIGHER ASSEMBLY: SHEET 8 OF 28		D	A
FIRST USED ON OPTION/MODEL: 11/750		B-DD-L0016-0		TD	L0016-0-3



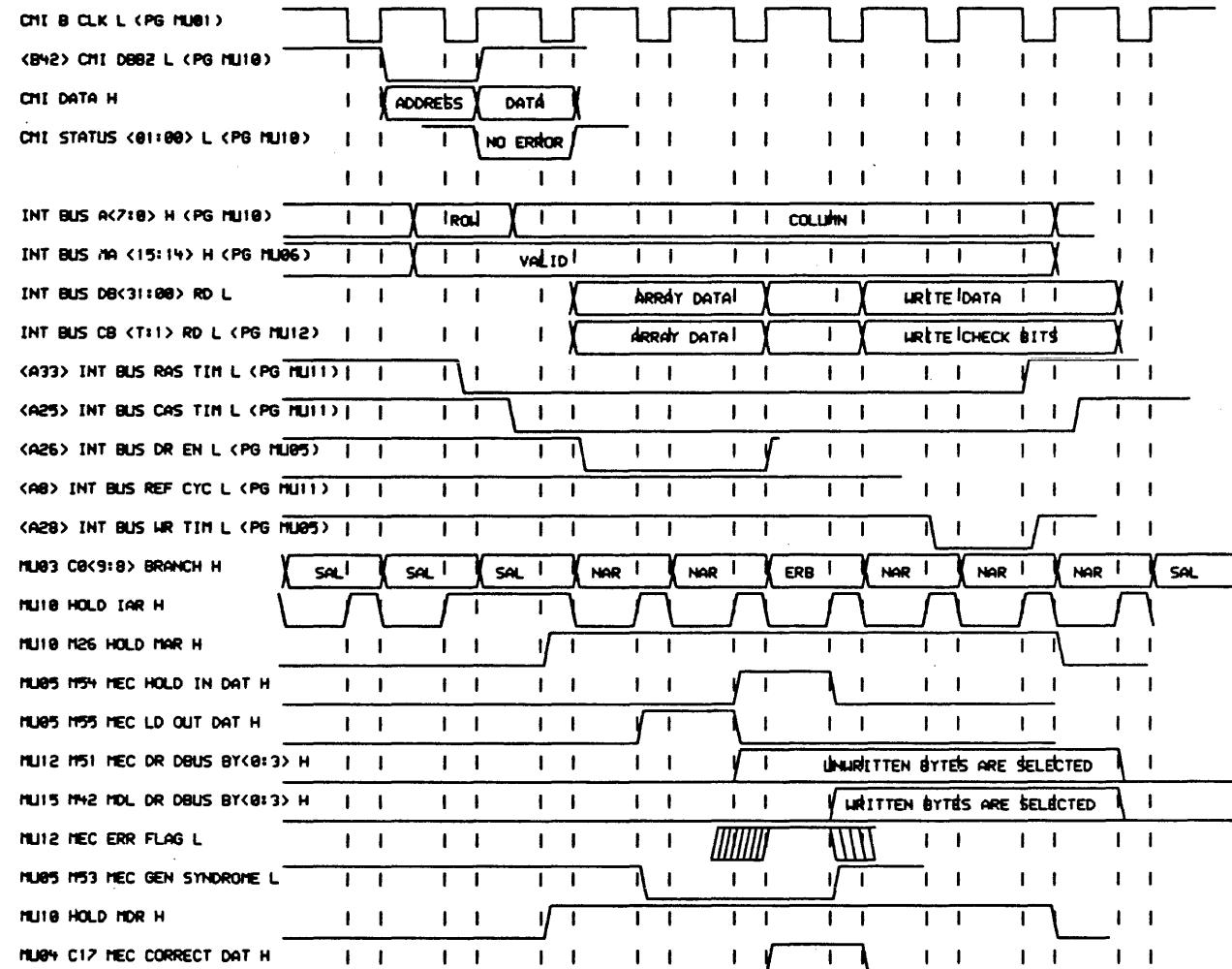
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DIGITAL	DATE 01-FEB-82	DATE 01-FEB-82	ENG.	DATE 01-FEB-82	TITLE: L0016 TIMING CHARTS	
CHR D.	DATE	BOARD LOCATION:			SHEET 9 OF 28	
(210,131) TIME09.DRW 129-JAN-82 09:56 NEXT HIGHER ASSEMBLY:						
FIRST USED ON OPTION/MODEL: 11/750 B-DD-L0016-0						
SIZE D	CODE TD	NUMBER L0016-0-3			REV. A	

8 | 7 | 6 | 5 | 4 | 3 | 2 | A | D | SIZE CODE L0016-0-3 | 1

800 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200



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NO ERROR ON INTERNAL READ

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CHK	CHANGE NO.	REV.

digital			DATE 01-FEB-82	END DATE 01-FEB-82	TITLE: L0016 TIMING CHARTS
			DATE 01-FEB-82	BOARD LOCATION: SHEET 19 OF 28	
(210,131) T116.DRW 129-JAN-82 09159					NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750			B-DD-L0016-0		SIZE CODE D TD L0016-0-3 REV. A

8 | 7 | 6 | 5 | 4 | 3 | 2 | A | D | SIZE CODE L0016-0-3 | 1

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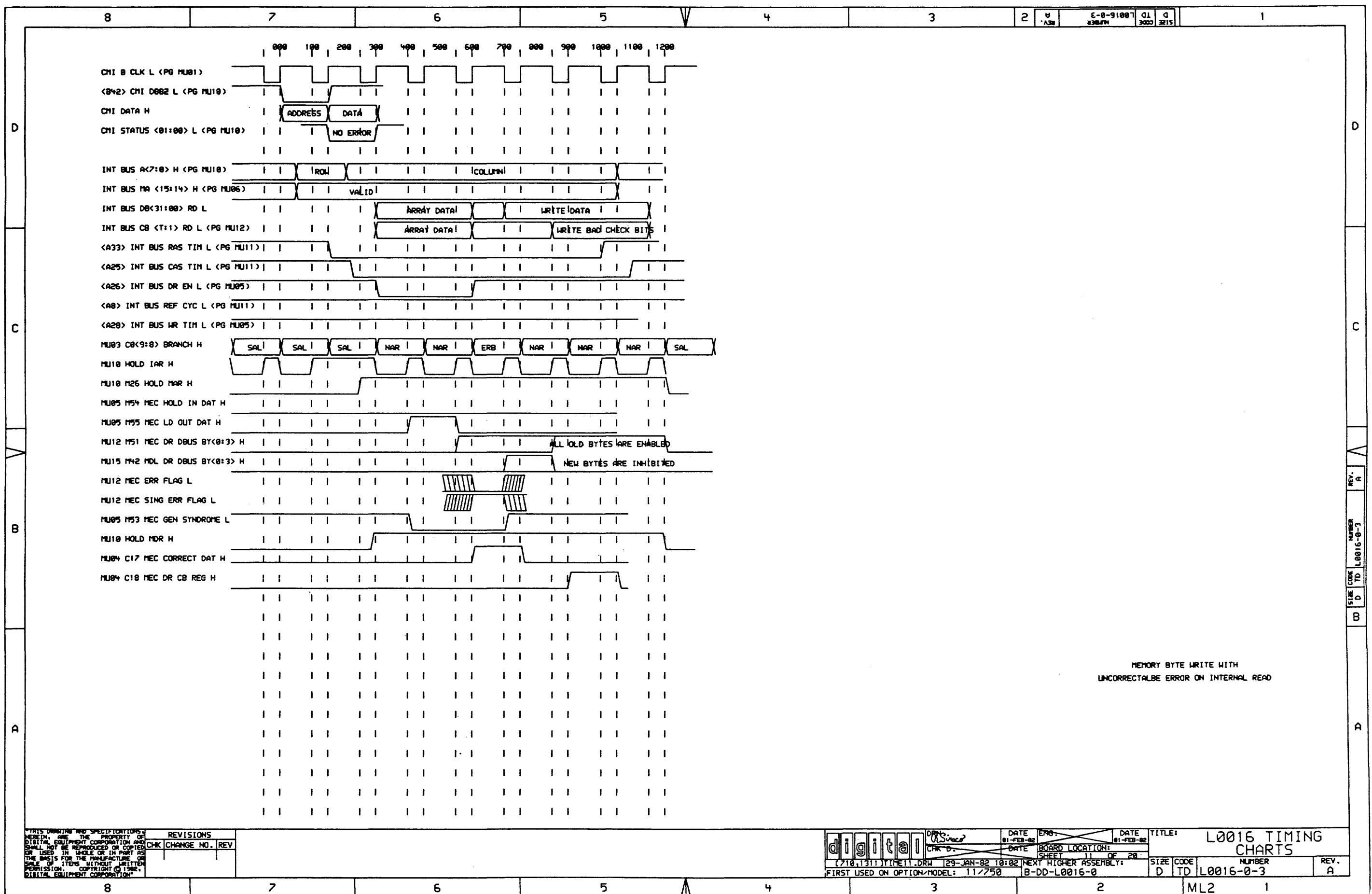
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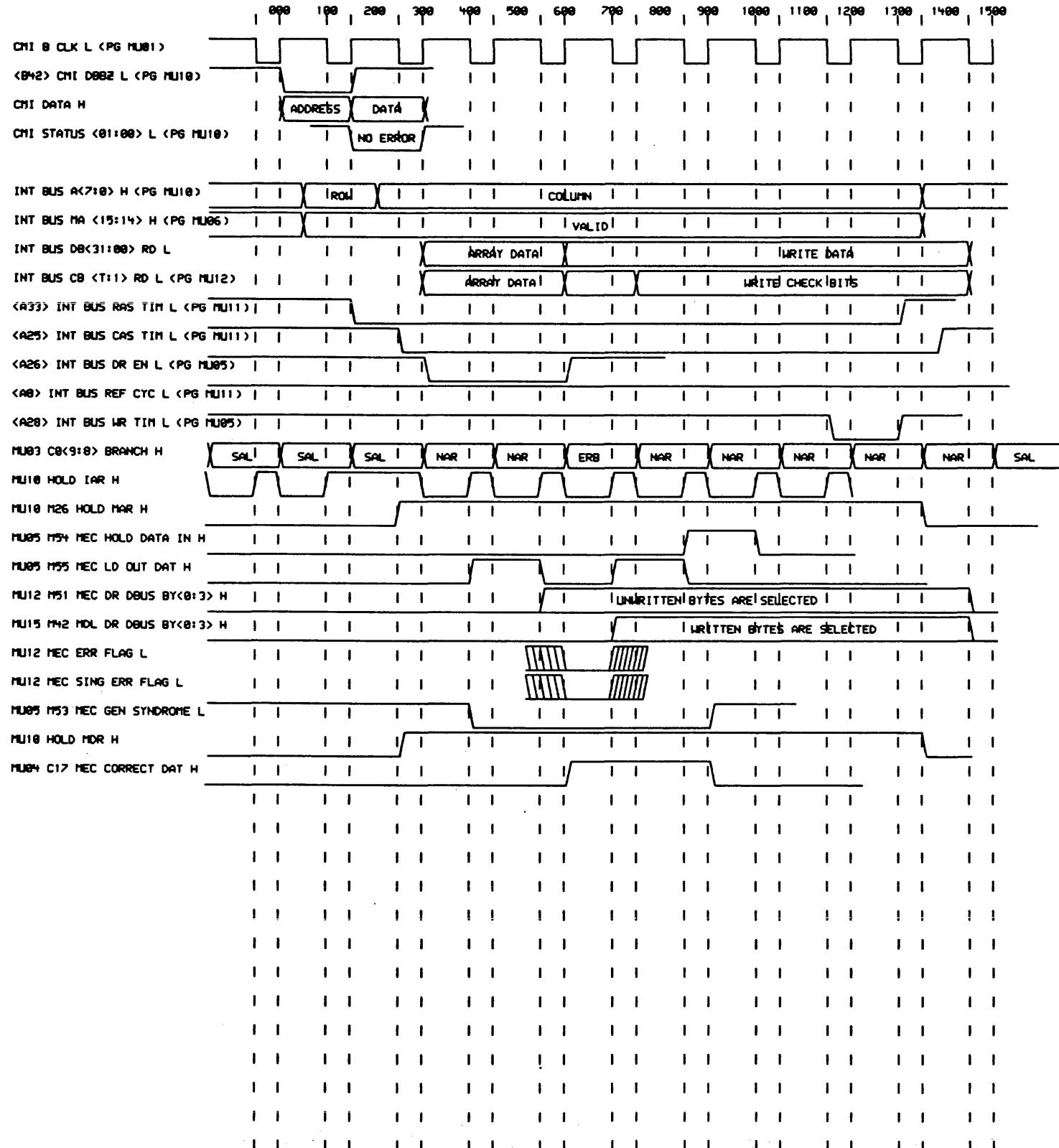
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ML2





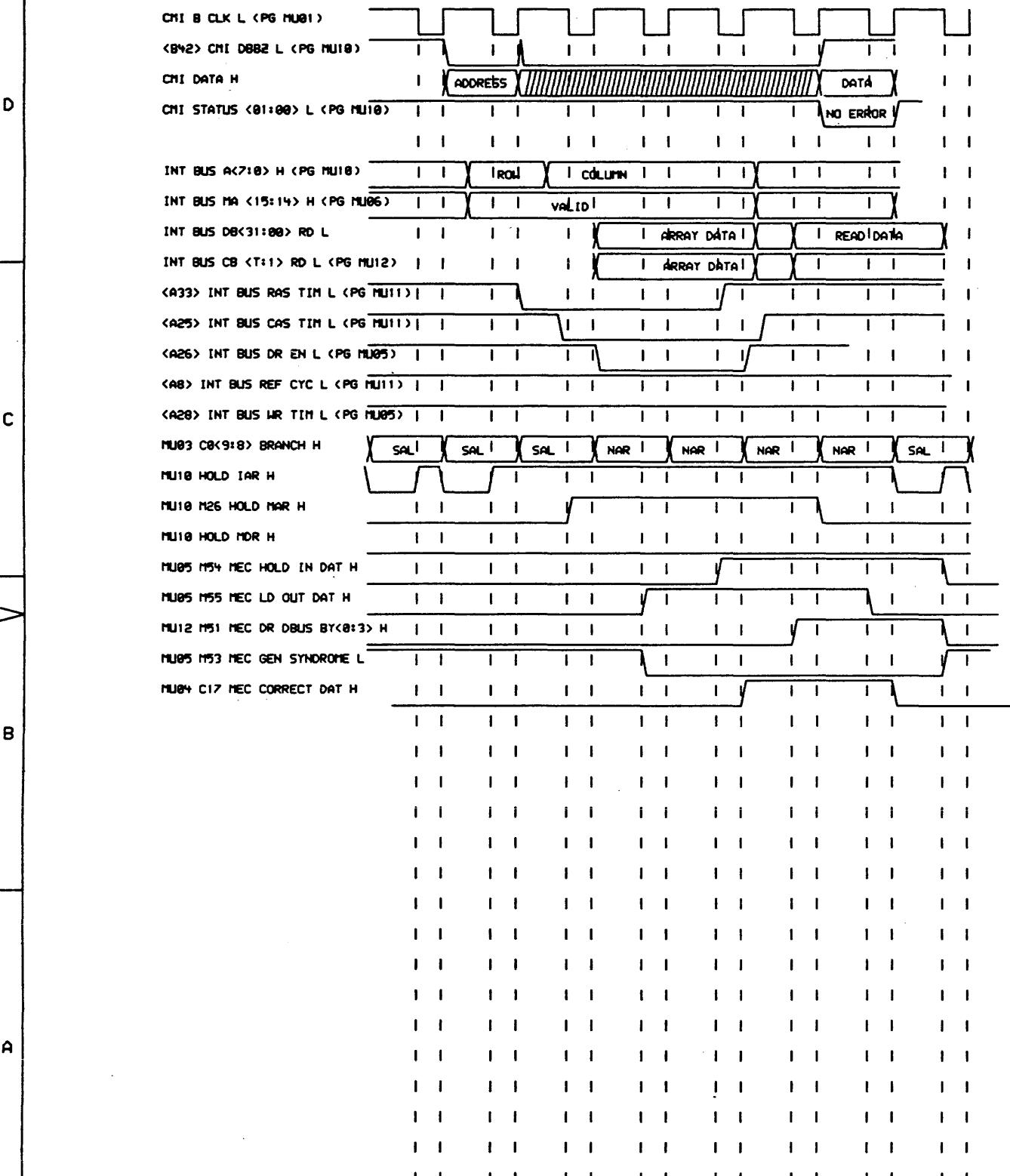
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CHK CHANGE NO. REV

digital	DAT	DATE 01-FEB-82	END 01-FEB-82	DATE 01-FEB-82	TITLE: L0016 TIMING CHARTS
	01-FEB-82			BOARD LOCATION: SHEET 12 OF 20	
L710,13111 TIME12.DRW 29-JAN-82 10:10			NEXT HIGHER ASSEMBLY:		SIZE CODE D TD L0016-0-3
FIRST USED ON OPTION/MODEL: 11/750			B-DD-L0016-0		REV. A

8 | 7 | 6 | 5 | V | 4 | 3 | 2 | 1



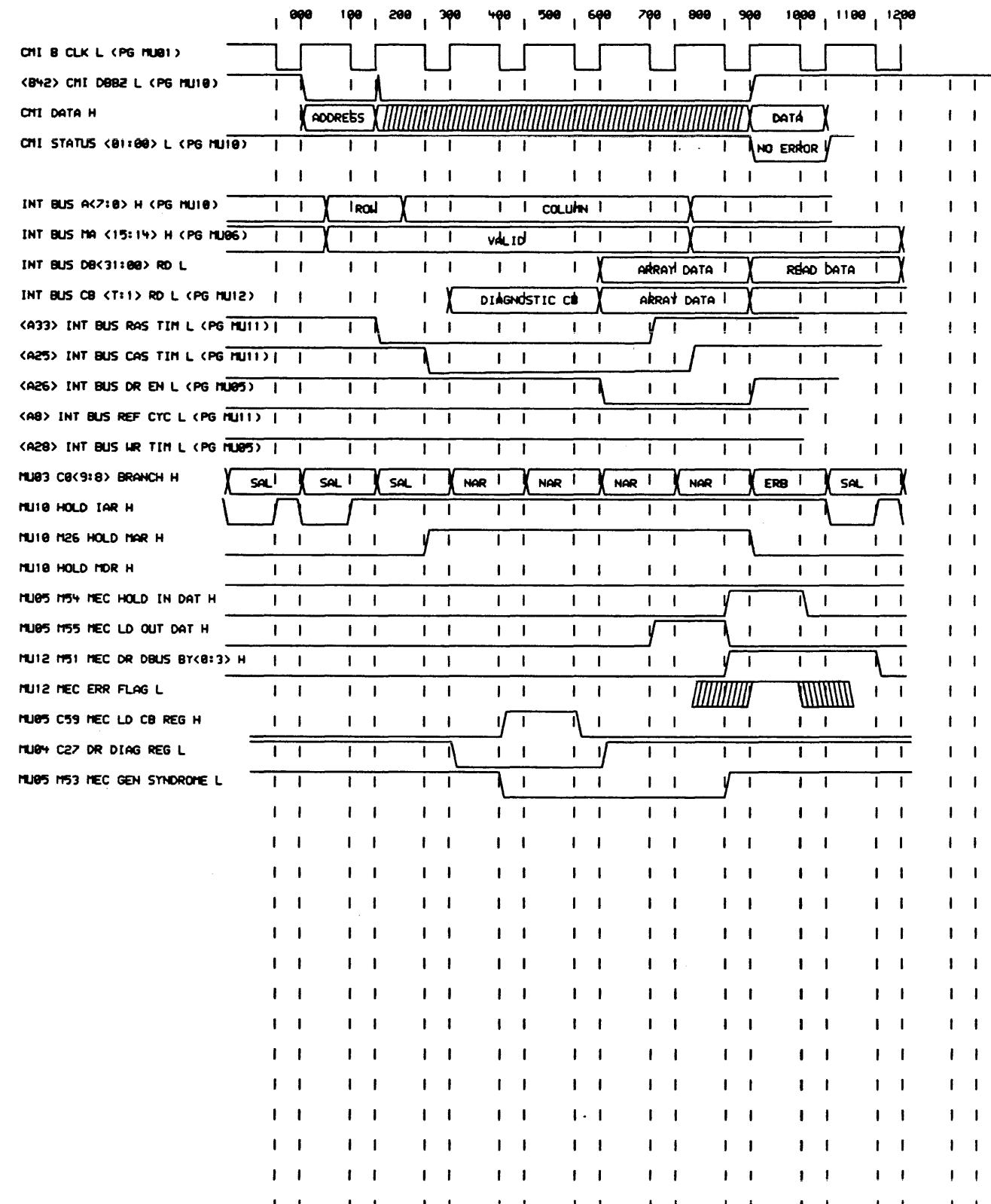
MEMORY REQD IN DIAGNOSTIC
MODE OUT OF PAGE

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REVISIONS
CHK CHANGE NO. REV

DATE ISSUED	DATE ENG.	DATE REV.	TITLE:
CHK D.	BY-FEB-82	BY-FEB-82	L0016 TIMING CHARTS
DATE BOARD LOCATION: SHEET 13 OF 20			
L716.1311 TIME13.DRW 129-JAN-82 10:13 NEXT HIGHER ASSEMBLY:			
FIRST USED ON OPTION/MODEL: 11/750 B-DD-L0016-0			
SIZE	CODE	NUMBER	REV.
D	TD	L0016-0-3	A

8 | 7 | 6 | 5 | A | 4 | 3 | 2 | 1



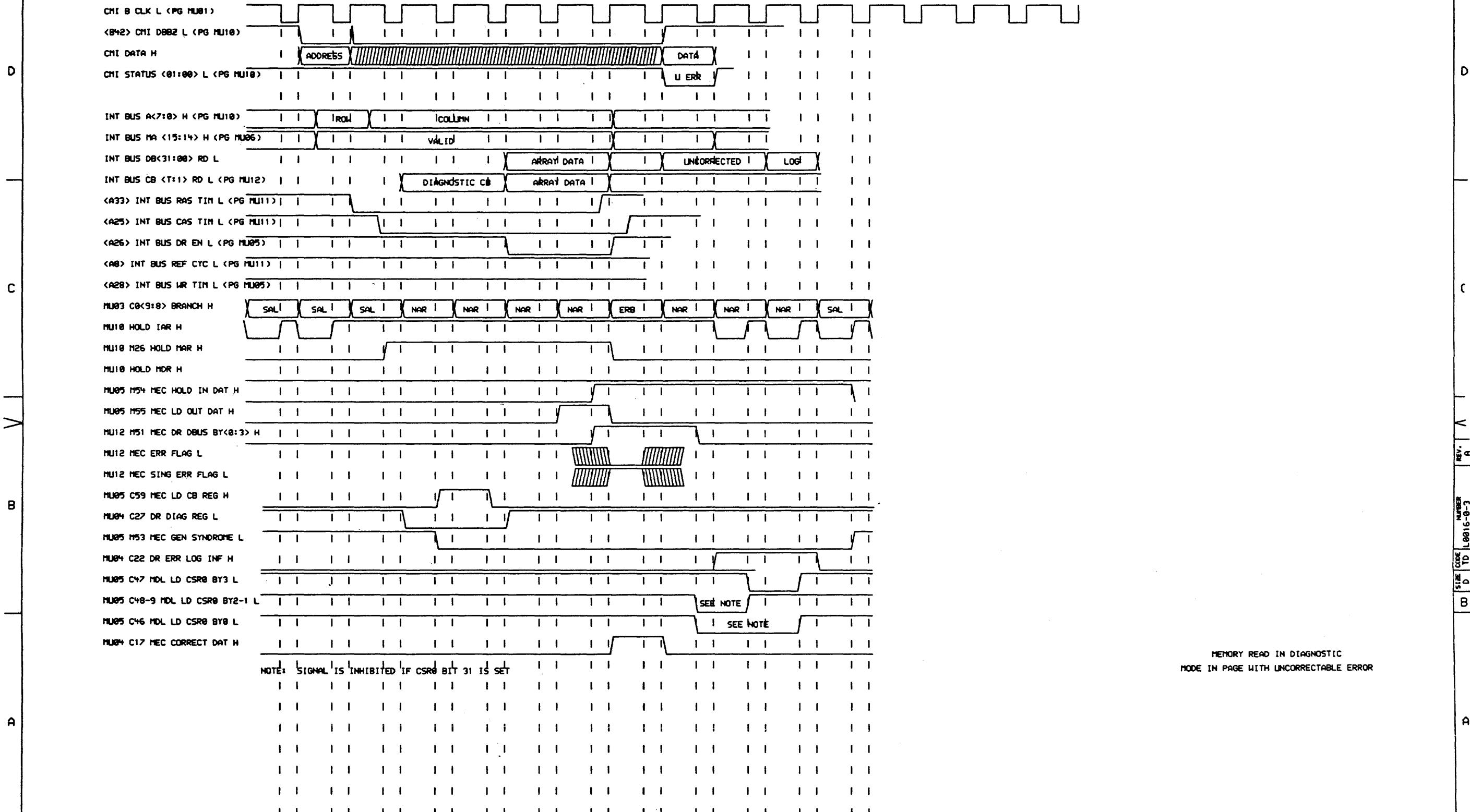
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CHK CHANGE NO. REV

DATE END: 01-FEB-82 DATE: 01-FEB-82
TITLE: L0016 TIMING CHARTS
digital DRW (Rev. A) SHEET 14 OF 20
DATE BOARD LOCATION:
L710,1311 TIME 14 DRW 29-JAN-82 10:16 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750 SIZE CODE D NUMBER L0016-0-3 REV. A
B-DO-L0016-0-3

8 7 6 5 4 3 2 A 3 E-8-0001 L0016-0-3 D TD SIZE NUMBER

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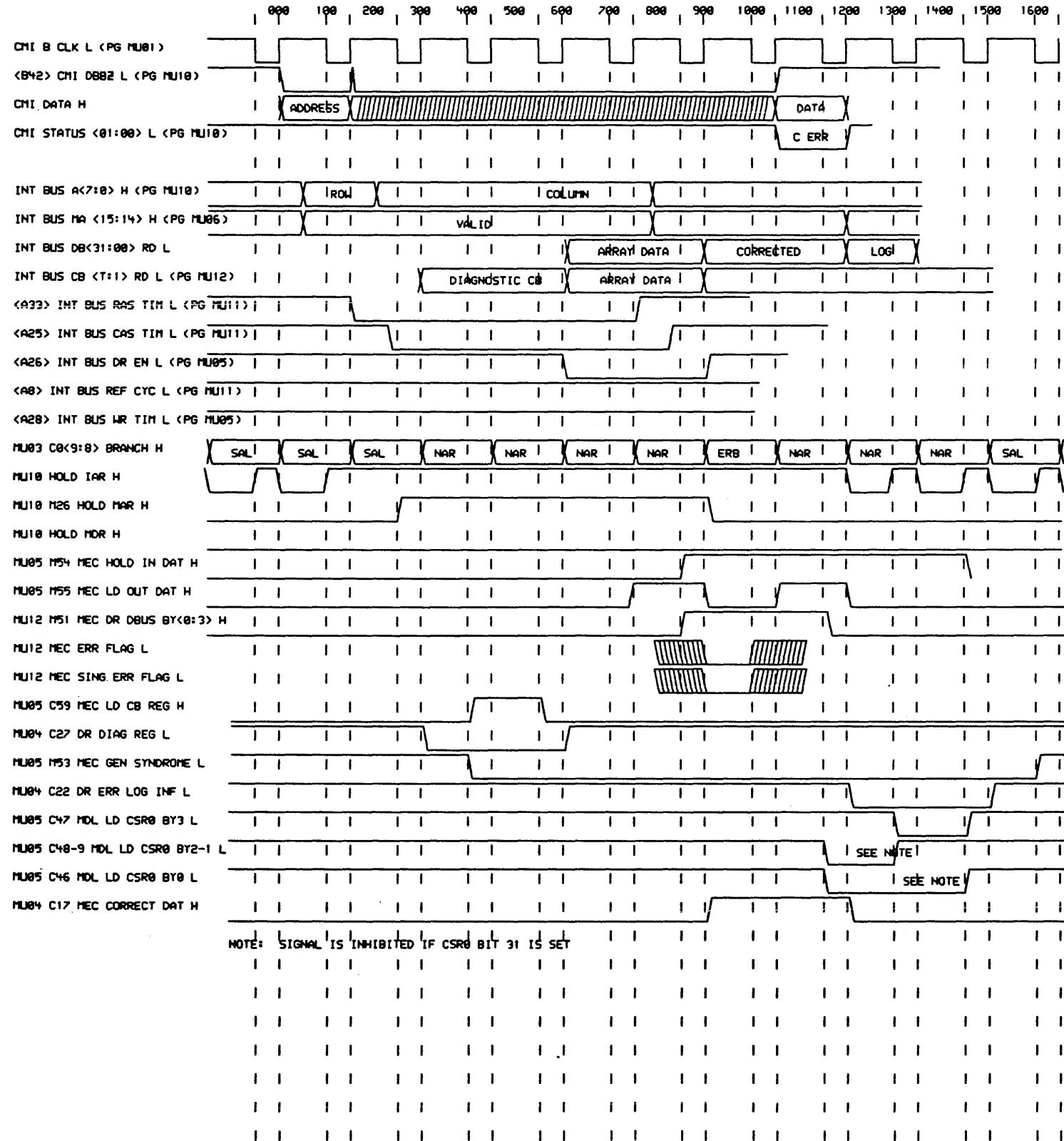


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REVISIONS
CHK CHANGE NO. REV

REVISIONS: DRN 3.0000 DATE: 01-FEB-82 ENG: DATE: 01-FEB-82 TITLE: L0016 TIMING CHARTS
CHG: 0 DATE: BOARD LOCATION: SHEET 15 OF 20
F710-1311 TIME: 15.DRH 29-JAN-82 10:28 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION MODEL: 11/750 B-DD-L0016-0

8 7 6 5 4 3 2 1



MEMORY READ IN DIAGNOSTIC
MODE IN PAGE WITH CORRECTABLE ERROR

NOTE: SIGNAL IS INHIBITED IF CSREG BIT 31 IS SET

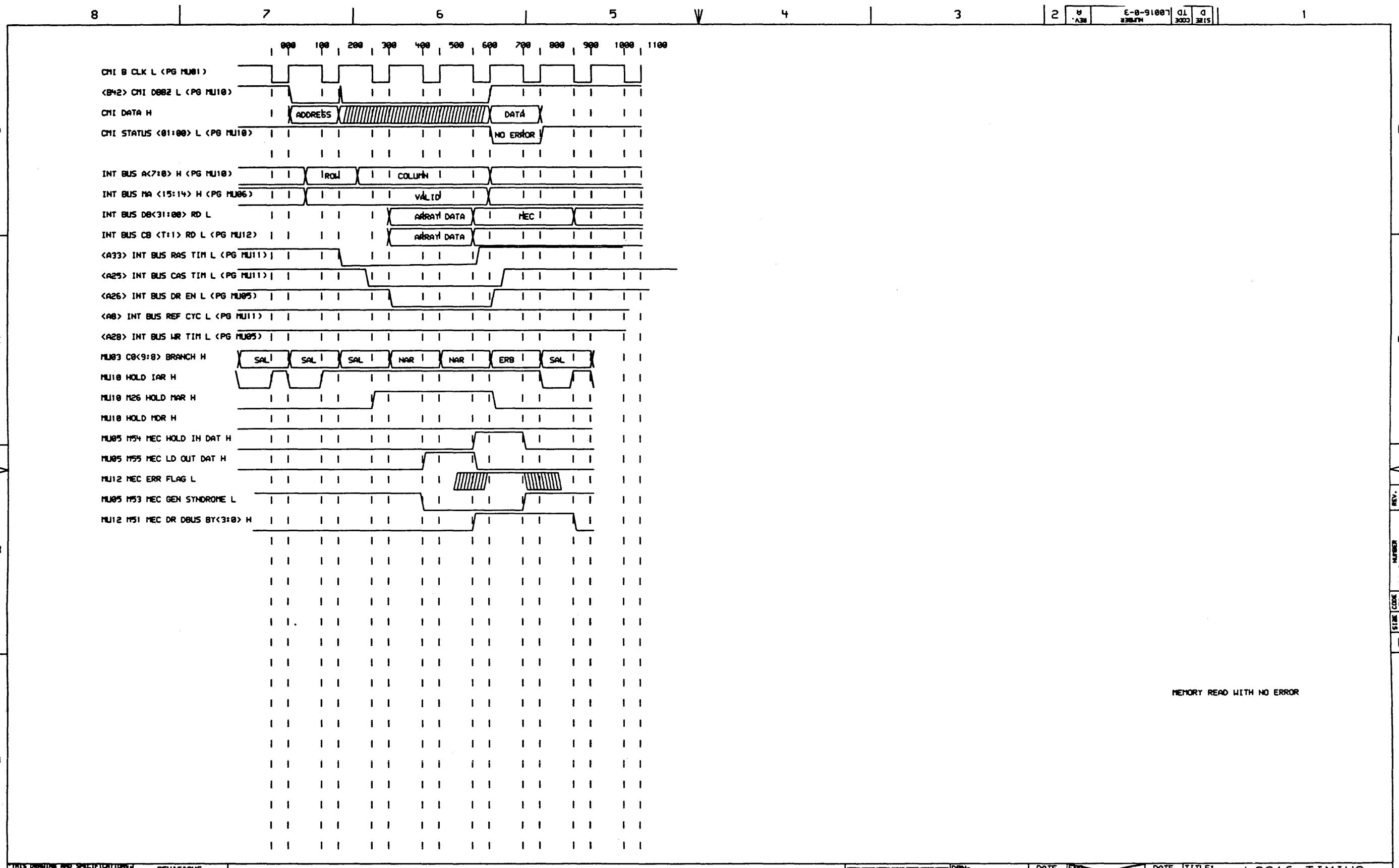
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CHK	CHANGE NO.	REV

DATE 01-FEB-82 END 01-FEB-82 DATE 01-FEB-82
DATE 01-FEB-82 BOARD LOCATION:
SHEET 15 OF 20
L710-13111-TIME16.DRW 129-JAN-82 10:24 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750 B-DD-L0016-0-0 SIZE CODE D TD NUMBER L0016-0-3 REV A

8 7 6 5 4 3 2 1

ML2 1



MEMORY READ WITH NO ERROR

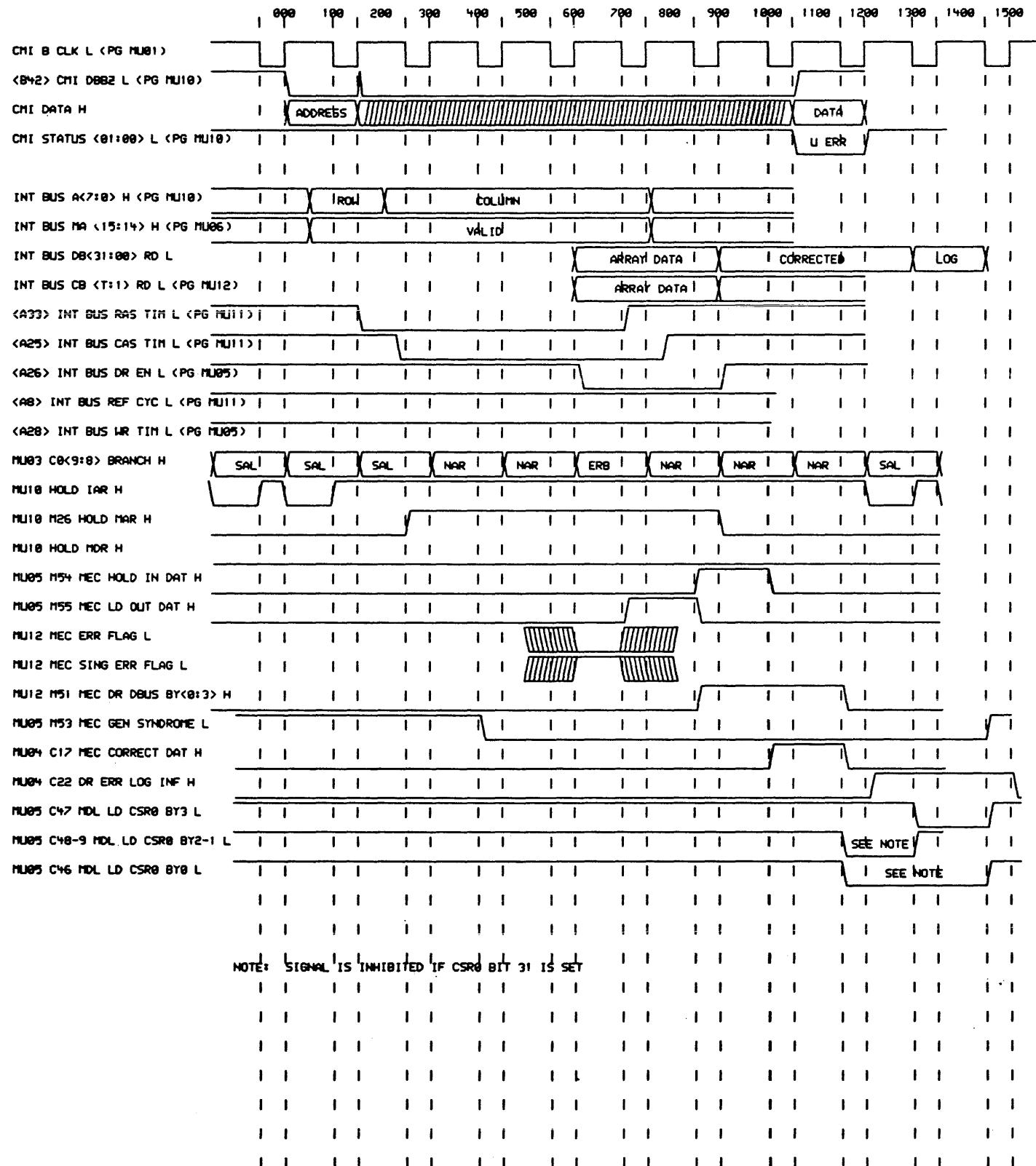
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REVISIONS
CHG CHANGE NO. REV

digital

DES. BY	DATE	ENG.	DATE	TITLE:
CHR D.	01-FEB-82	01-FEB-82	SHEET	L0016 TIMING CHARTS
1710.1311 TIME17.DRW 129-JAN-82 10:26 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION MODEL: 11/750 B-DD-L0016-0				SIZE CODE D TD NUMBER L0016-0-3 REV. A

8 7 6 5 V 4 3 2 A E-8-91007 D 3000 3215 1



MEMORY READ IN DIAGNOSTIC
MODE IN PAGE WITH UNCORRECTABLE ERROR

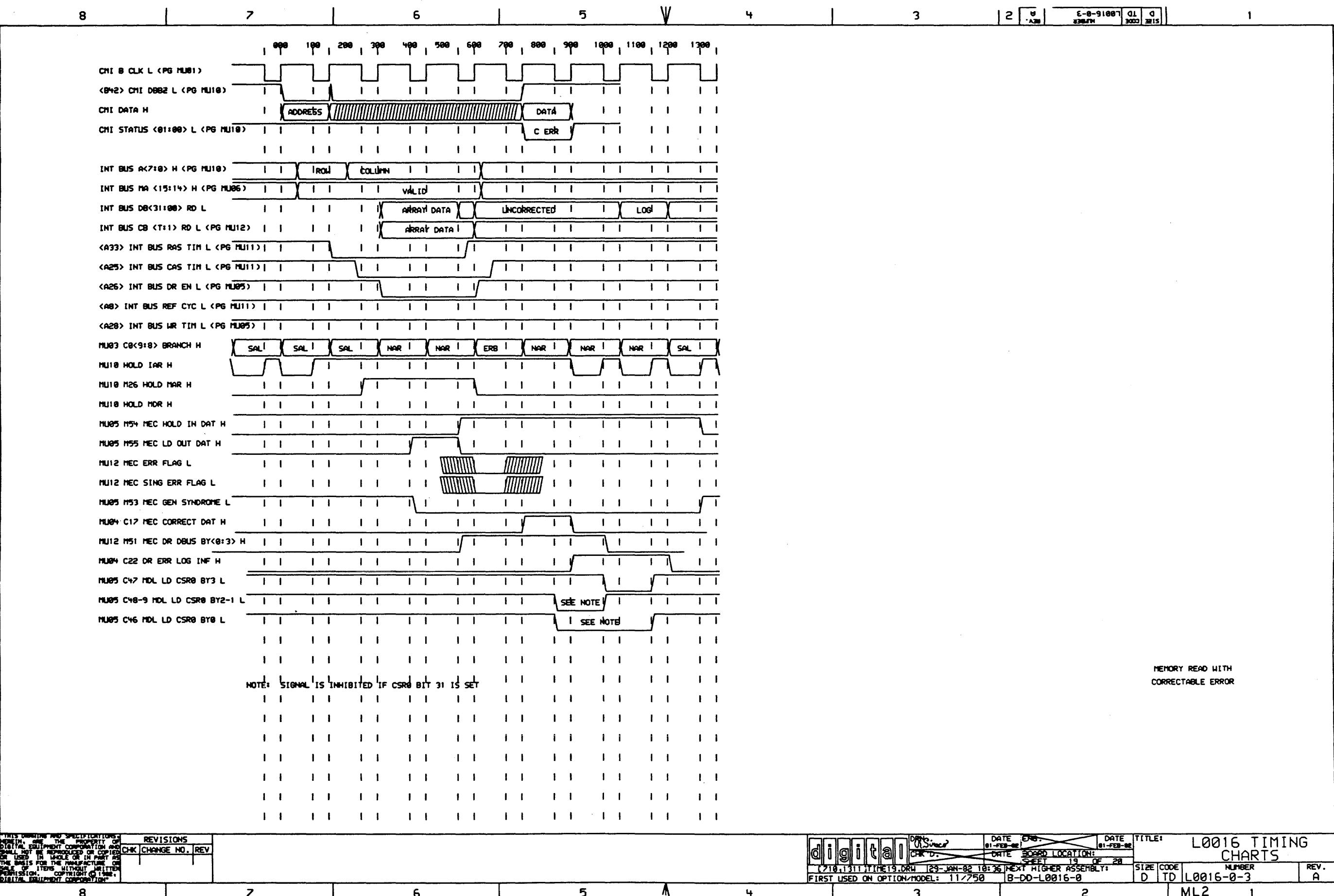
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REVISIONS
CHG CHANGE NO. REV

DATE: 01-FEB-86	END DATE: 01-FEB-86	TITLE: L0016 TIMING CHARTS
DATE: 01-FEB-86	BOARD LOCATION: SHEET 18 OF 20	
1710.1311.TIME16.DRW	29-JAN-86 10:30	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750	B-DO-L0016-0	SIZE CODE D TD NUMBER L0016-0-3 REV. A

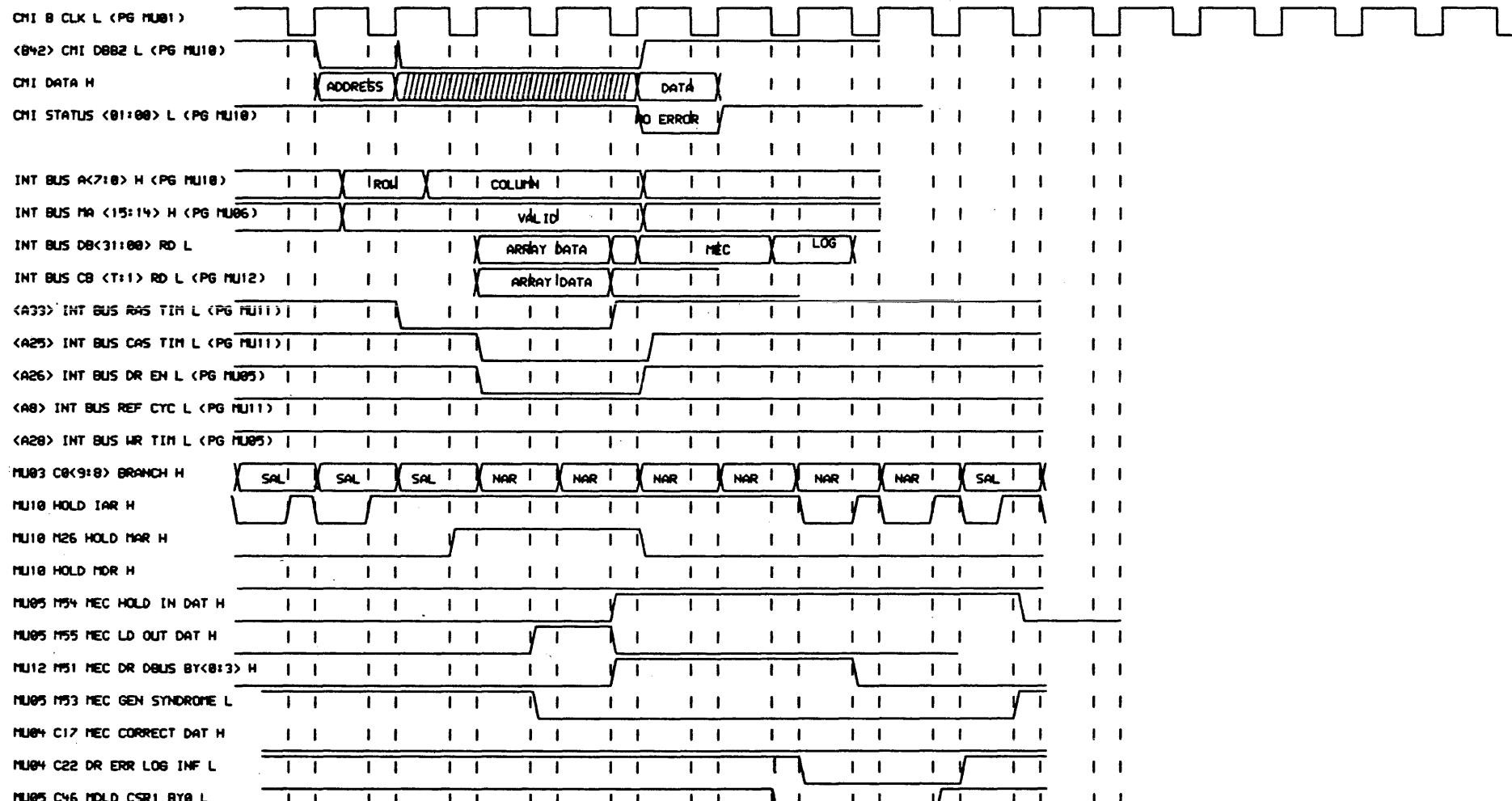
8 7 6 5 V 4 3 2 A E-8-91007 D 3000 3215 1

ML2 1



8 | 7 | 6 | 5 | V | 4 | 3 | 2 | A | 1

000 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200



MEMORY READ WITH
ECC DISABLED

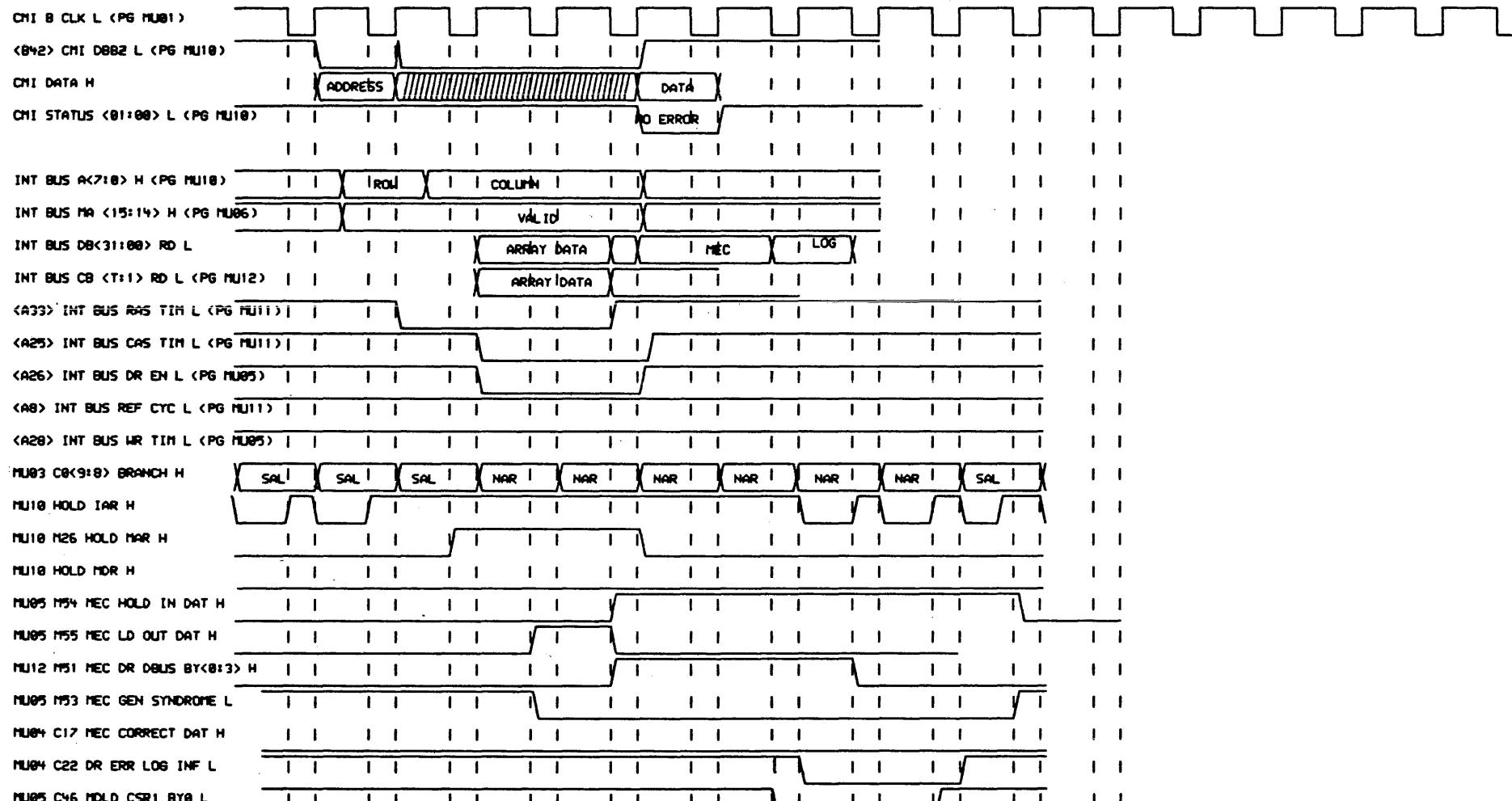
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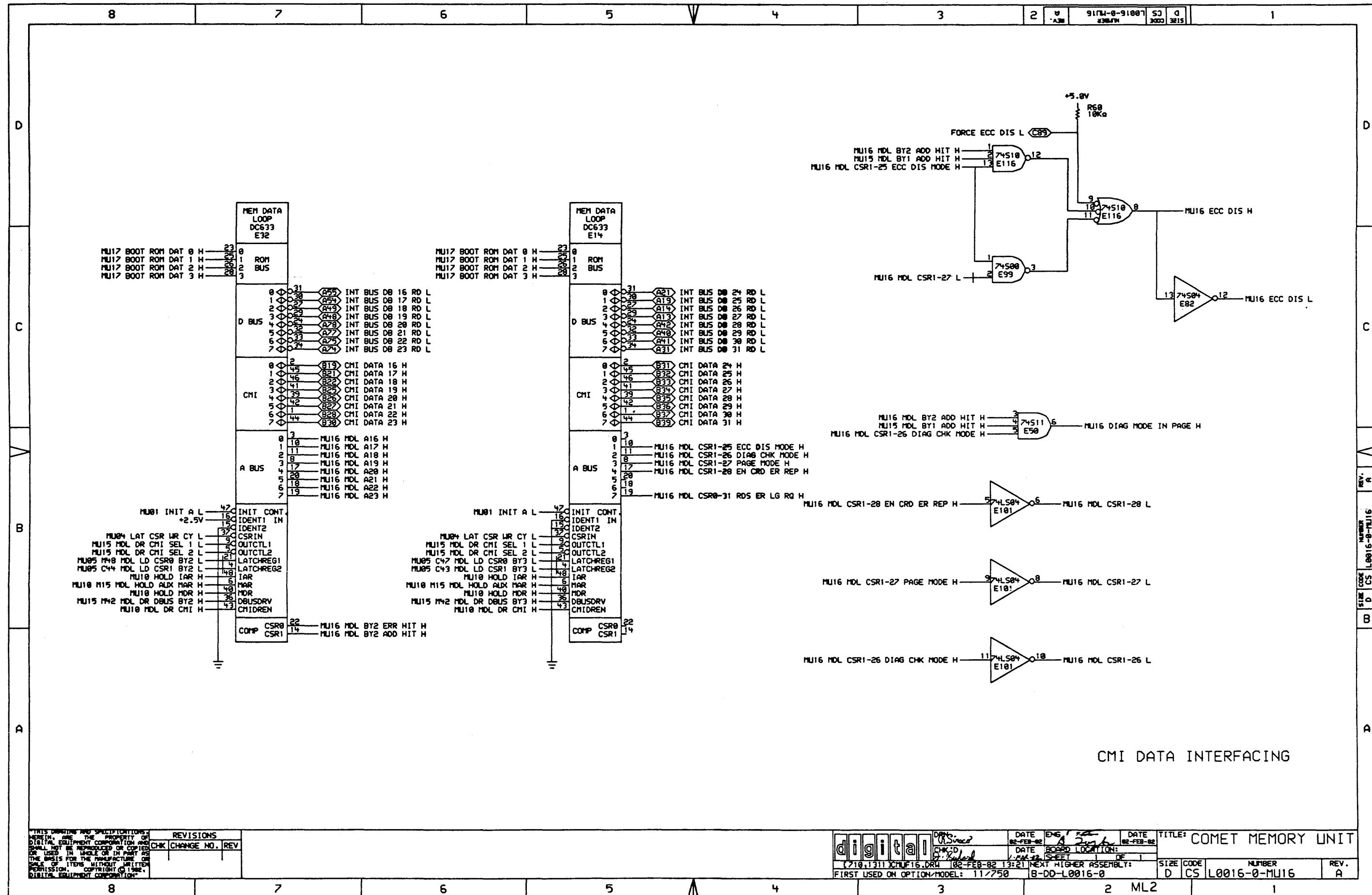
REVISIONS		
CHK	CHANGE NO.	REV.

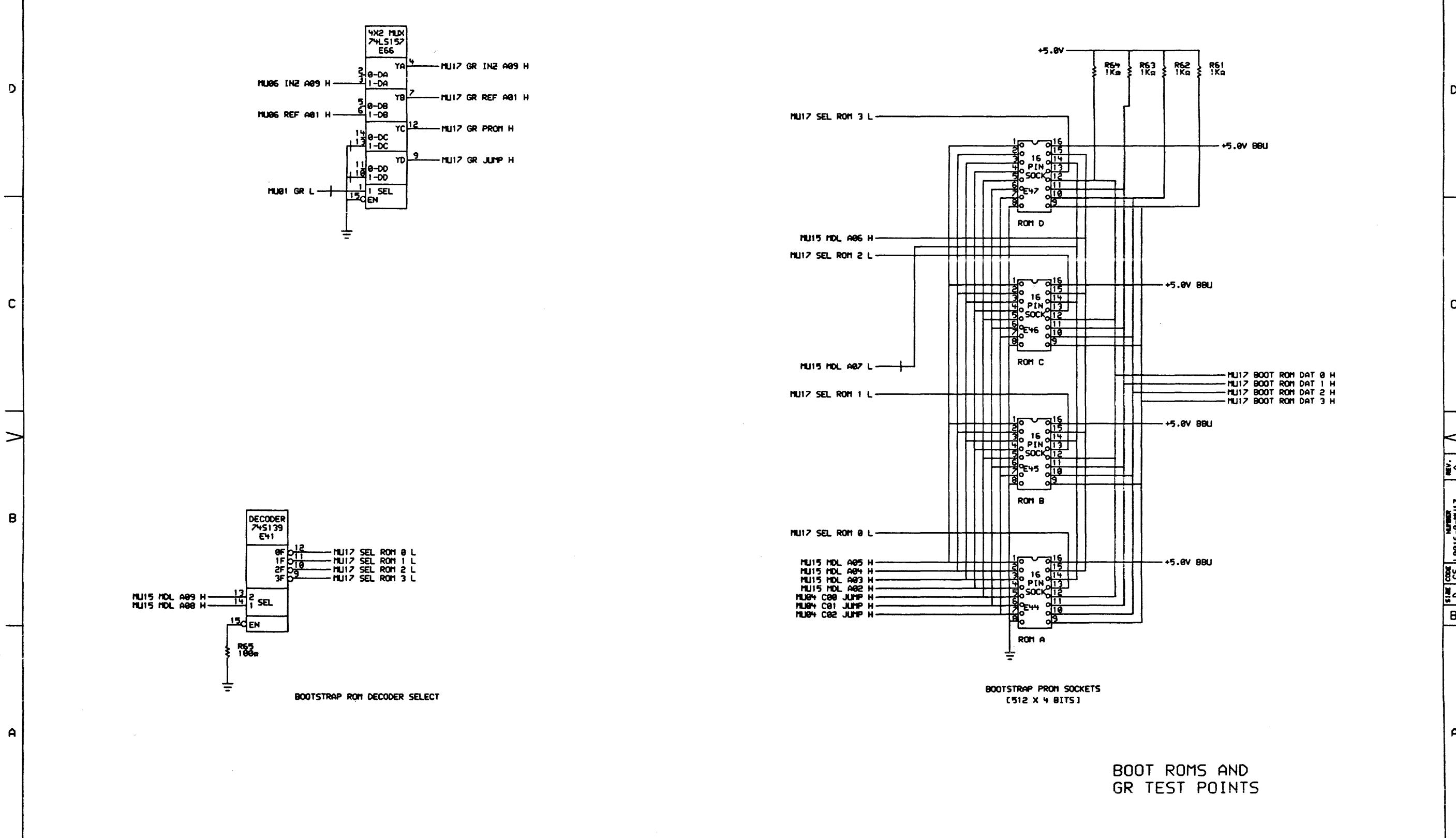
0016-0-3
L0016-0-3
digital
DATE ISSUED:
01-FEB-82
DATE END:
01-FEB-82
DATE REVISED:
01-FEB-82
BOARD LOCATION:
SHEET 28 OF 28
(7101311) TIME20.DRW (29-JAN-82 10:49) NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: 11/750 B-DD-L0016-0
TITLE: L0016 TIMING
CHARTS
SIZE CODE NUMBER REV.
D TD L0016-0-3 A

8 | 7 | 6 | 5 | V | 4 | 3 | 2 | A | 1

000 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200







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REVISIONS
CHK CHANGE NO. REV

digital
DATE 02-FEB-82
CHKD / DATE 02-FEB-82
(710,1311)CHLF17.DAT 102-FEB-82 1321
FIRST USED ON OPTION MODEL: 11/750

DATE 02-FEB-82
ENG. 7251
BORED LOCATION: 1
NEXT HIGHER ASSEMBLY:
B-DO-L0016-0

TITLE: COMET MEMORY UNIT
SIZE CODE D CS L0016-0-MU17 REV. A

D
C
V
B
A

745374 E1 20 +5.0V BBU
 74564 E8 14 +5.0V BBU
 74S112 E10 16 +5.0V BBU
 74S153 E11 16 +5.0V BBU
 74S153 E12 16 +5.0V BBU
 74S153 E13 16 +5.0V BBU
 74L5393 E19 14 +5.0V BBU
 74S153 E20 16 +5.0V BBU
 74S04 E21 14 +5.0V BBU
 74S74 E23 14 +5.0V BBU
 74L5393 E24 14 +5.0V BBU
 74L5393 E25 14 +5.0V BBU
 74S74 E29 14 +5.0V BBU
 74S74 E30 14 +5.0V BBU
 74S04 E32 14 +5.0V BBU
 74S64 E38 14 +5.0V BBU
 74S08 E40 14 +5.0V BBU
 74S20 E43 14 +5.0V BBU
 74S74 E53 14 +5.0V BBU
 74S112 E54 16 +5.0V BBU
 74S02 E55 14 +5.0V BBU
 74S152 E56 16 +5.0V BBU
 74S51 E57 14 +5.0V BBU
 74S74 E58 14 +5.0V BBU
 74S08 E60 14 +5.0V BBU
 74S74 E62 14 +5.0V BBU
 74S74 E63 14 +5.0V BBU
 74L5157 E66 16 +5.0V BBU
 74S10 E72 14 +5.0V BBU
 74S74 E74 14 +5.0V BBU
 74S140 E80 14 +5.0V BBU
 74S11 E86 14 +5.0V BBU
 74S10 E87 14 +5.0V BBU
 74S00 E88 14 +5.0V BBU
 74S04 E89 14 +5.0V BBU
 74S08 E90 14 +5.0V BBU
 74S08 E91 14 +5.0V BBU
 74S04 E92 14 +5.0V BBU
 74S02 E93 14 +5.0V BBU
 74S374 E94 20 +5.0V BBU
 74S374 E95 20 +5.0V BBU
 74S20 E96 14 +5.0V BBU
 74S374 E97 20 +5.0V BBU
 74S08 E100 14 +5.0V BBU
 74S02 E102 14 +5.0V BBU
 74S20 E103 14 +5.0V BBU

82S129 E105 16 +5.0V BBU
 82S129 E106 16 +5.0V BBU
 82S129 E107 16 +5.0V BBU
 82S129 E108 16 +5.0V BBU
 82S129 E109 16 +5.0V BBU
 82S129 E110 16 +5.0V BBU
 82S129 E111 16 +5.0V BBU
 82S129 E112 16 +5.0V BBU
 74S174 E113 16 +5.0V BBU
 75452 E114 8 +5.0V BBU
 74S20 E117 14 +5.0V BBU
 74S20 E118 14 +5.0V BBU
 74S10 E119 14 +5.0V BBU
 74S32 E120 14 +5.0V BBU
 74S374 E123 20 +5.0V BBU
 74S153 E127 16 +5.0V BBU
 74S153 E128 16 +5.0V BBU
 74S08 E129 14 +5.0V BBU
 74S30 E130 14 +5.0V BBU
 74S30 E131 14 +5.0V BBU
 8640 E132 8 +5.0V BBU
 74S374 E134 20 +5.0V BBU
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 82S129 E136 16 +5.0V BBU
 82S129 E137 16 +5.0V BBU
 82S129 E138 15 +5.0V BBU
 82S129 E139 16 +5.0V BBU
 82S129 E140 16 +5.0V BBU
 82S129 E141 16 +5.0V BBU
 74S374 E142 20 +5.0V BBU

* NOTE: E44, E45, E46, E47,
 ALL ON "BBU"--SEE PAGE 17 OF 19.

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REVISIONS	CHK	CHANGE NO.

digital	DATE ISSUED	DATE ENG. APPROVED	DATE REVISED
CHG'D.	DATE	BOARD LOCATION:	
		LAYOUT SHEET	OF 1
770-1311-0011.DRW 102-FEB-82 13:22 NEXT HIGHER ASSEMBLY:			
FIRST USED ON OPTION/MODEL: 11/750 B-DO-L0016-0			
SIZE CODE	NUMBER	REV.	
D CS	L0016-0-MU18	A	

D

D

C

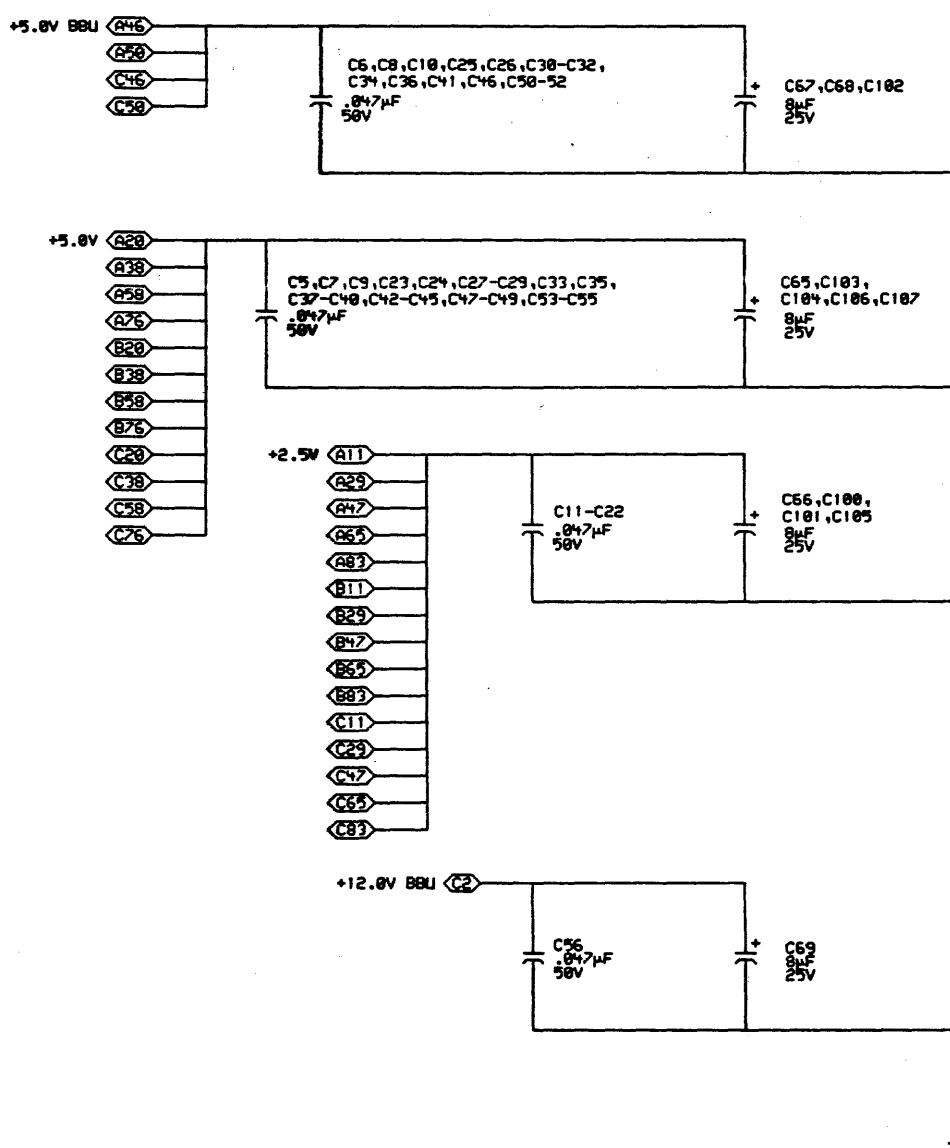
C

B

B

A

A



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REVISIONS	CHK	CHANGE NO.	REV
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DATE 02-FEB-82 ENG. 1 DATE 02-FEB-82 TITLE: COMET MEMORY UNIT
02-FEB-82 BOARD LOCATION: 1/10, 1311 CHMFL19.DRW 02-FEB-82 13:22 NEXT HIGHER ASSEMBLY:
DIGITAL EQUIPMENT CORPORATION 11/750 B-DD-L0016-0 SIZE CODE D CS L0016-0-MU19 REV. A
FIRST USED ON OPTION/MODEL: 11/750