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FIELD MAINTENANCE PRINT SET KU116-AA	B-TC-KU116-AA-1
CIRCUIT SCHEMATICS WCS	D-CS-M787 0 - 0 -1
PARTS LIST WCS	B-PL-M787 0 - 0 - 0
UNIT ASSEMBLY WCS	D-UA-M787 0 - 0 - 0
DRAWING DIRECTORY WCS	B-DD-M787 0 - 0 - 0
DRAWING DIRECTORY KU116-AA	B-DD-KU116-AA
KU116-AA SHIPPING LIST	A-PL-KU116-AA-2
KU116-AA PARTS LIST	A-PL-KU116-AA- 0

[illegible]

KUI16-AA
Field Maintenance
Print Set
MP00500

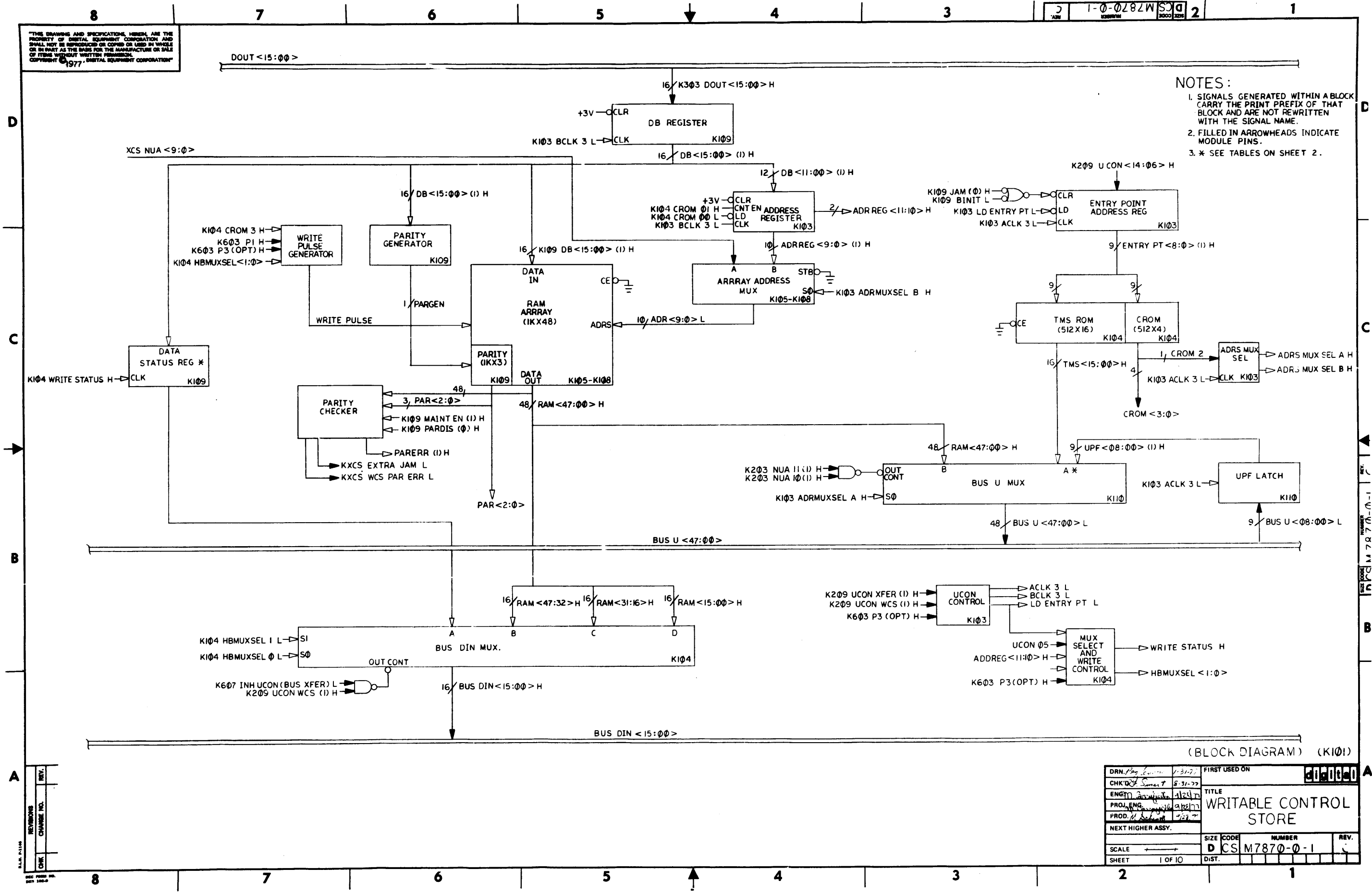
Digital Equipment Corporation

REVISIONS	REV.		USED ON OPTION/MODEL		DRN.	DATE	digital									
	CHG. NO.		KD11-K		P. BOUDREAU	9/77										
					CHK'D	DATE										
					<i>Pete Boudreau</i>	10/7/77										
	DATE				PROJ. ENG.	DATE	TITLE:									
					<i>M. Cornafiello</i>	9/28/77										
					FIELD SERV.	DATE										
					<i>J. Engman</i>	10/7/77										
			SHEET 1 OF 1				SIZE	CODE	NUMBER				REV.			
							B	TC	KUL16-AA+1							
						DIST.										

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1-0-0782W SD 2

- NOTES:
1. SIGNALS GENERATED WITHIN A BLOCK CARRY THE PRINT PREFIX OF THAT BLOCK AND ARE NOT REWRITTEN WITH THE SIGNAL NAME.
 2. FILLED IN ARROWHEADS INDICATE MODULE PINS.
 3. * SEE TABLES ON SHEET 2.



(BLOCK DIAGRAM) (K101)

DRN. Pkg. 1-0-0782W	5-31-77	FIRST USED ON	010000
CHK'D 5-31-77	5-31-77	TITLE	WRITABLE CONTROL STORE
ENG'D 5-31-77	5-31-77	SIZE	D CS
PROJ. ENG. 5-31-77	5-31-77	CODE	M7870-0-1
PROD. 5-31-77	5-31-77	NUMBER	1
NEXT HIGHER ASSY.		REV.	
SCALE		SHEET	1 OF 10
		DIST.	

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WCS STATUS REGISTER	
BIT	FUNCTION
15	PARITY ERROR
14	WCS ID CODE
13	<1:0>
12	NOT USED
11	NOT USED
10	NOT USED
09	MAINT. DISABLE
08	NOT USED
07	PARITY GENERATED
06	WRITE ENABLE
05	WRITE WRONG PARITY
04	PARITY DISABLE
03	PARITY 2
02	PARITY 1
01	PARITY 0
00	NOT USED

BUS DIN MUX				
BIT	PORT A	PORT B	PORT C	PORT D
15	STATUS 15	RAM 47	RAM 31	RAM 15
14	STATUS 14	RAM 46	RAM 30	RAM 14
13	STATUS 13	RAM 45	RAM 29	RAM 13
12	STATUS 12	RAM 44	RAM 28	RAM 12
11	STATUS 11	RAM 43	RAM 27	RAM 11
10	STATUS 10	RAM 42	RAM 26	RAM 10
09	STATUS 09	RAM 41	RAM 25	RAM 09
08	STATUS 08	RAM 40	RAM 24	RAM 08
07	STATUS 07	RAM 39	RAM 23	RAM 07
06	STATUS 06	RAM 38	RAM 22	RAM 06
05	STATUS 05	RAM 37	RAM 21	RAM 05
04	STATUS 04	RAM 36	RAM 20	RAM 04
03	STATUS 03	RAM 35	RAM 19	RAM 03
02	STATUS 02	RAM 34	RAM 18	RAM 02
01	STATUS 01	RAM 33	RAM 17	RAM 01
00	STATUS 00	RAM 32	RAM 16	RAM 00

CROM	
BIT	FUNCTION
3	WRITE PULSE EN
2	ADRS FLUX SEL ENTRY PT CNT EN
1	ADRS REG CNT EN
0	ADRS REG LOAD EN

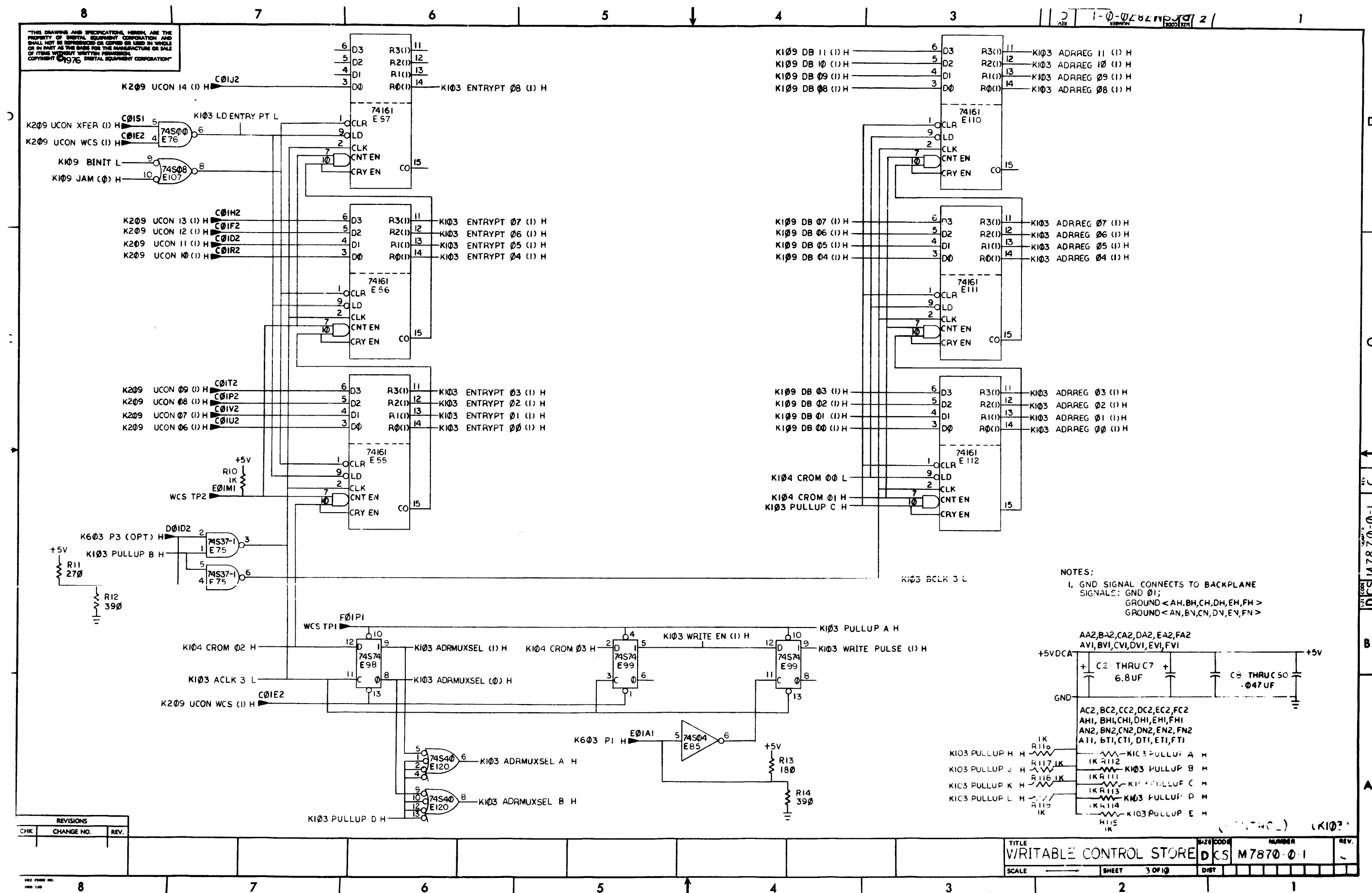
BUS U MUX					
BIT	PORT A	PORT B	BIT	PORT A	PORT B
47	1	RAM 47	23	TMS ROM 00	RAM 23
46	TMS ROM 00	RAM 46	22	TMS ROM 07	RAM 22
45	1	RAM 45	21	TMS ROM 00	RAM 21
44	TMS ROM 00	RAM 44	20	TMS ROM 10	RAM 20
43	TMS ROM 01	RAM 43	19	TMS ROM 11	RAM 19
42	TMS ROM 02	RAM 42	18	TMS ROM 12	RAM 18
41	1	RAM 41	17	TMS ROM 13	RAM 17
40	TMS ROM 03	RAM 40	16	TMS ROM 14	RAM 16
39	1	RAM 39	15	TMS ROM 15	RAM 15
38	TMS ROM 04	RAM 38	14	0	RAM 14
37	0	RAM 37	13	1	RAM 13
36	TMS ROM 05	RAM 36	12	1	RAM 12
35	TMS ROM 06	RAM 35	11	0	RAM 11
34	TMS ROM 07	RAM 34	10	0	RAM 10
33	TMS ROM 00	RAM 33	09	0	RAM 09
32	0	RAM 32	08	UPF 00(1) H	RAM 08
31	0	RAM 31	07	UPF 07(1) H	RAM 07
30	0	RAM 30	06	UPF 00(1) H	RAM 06
29	0	RAM 29	05	UPF 05(1) H	RAM 05
28	TMS ROM 09	RAM 28	04	UPF 04(1) H	RAM 04
27	0	RAM 27	03	UPF 03(1) H	RAM 03
26	0	RAM 26	02	UPF 02(1) H	RAM 02
25	0	RAM 25	01	UPF 01(1) H	RAM 01
24	0	RAM 24	00	UPF 00(1) H	RAM 00

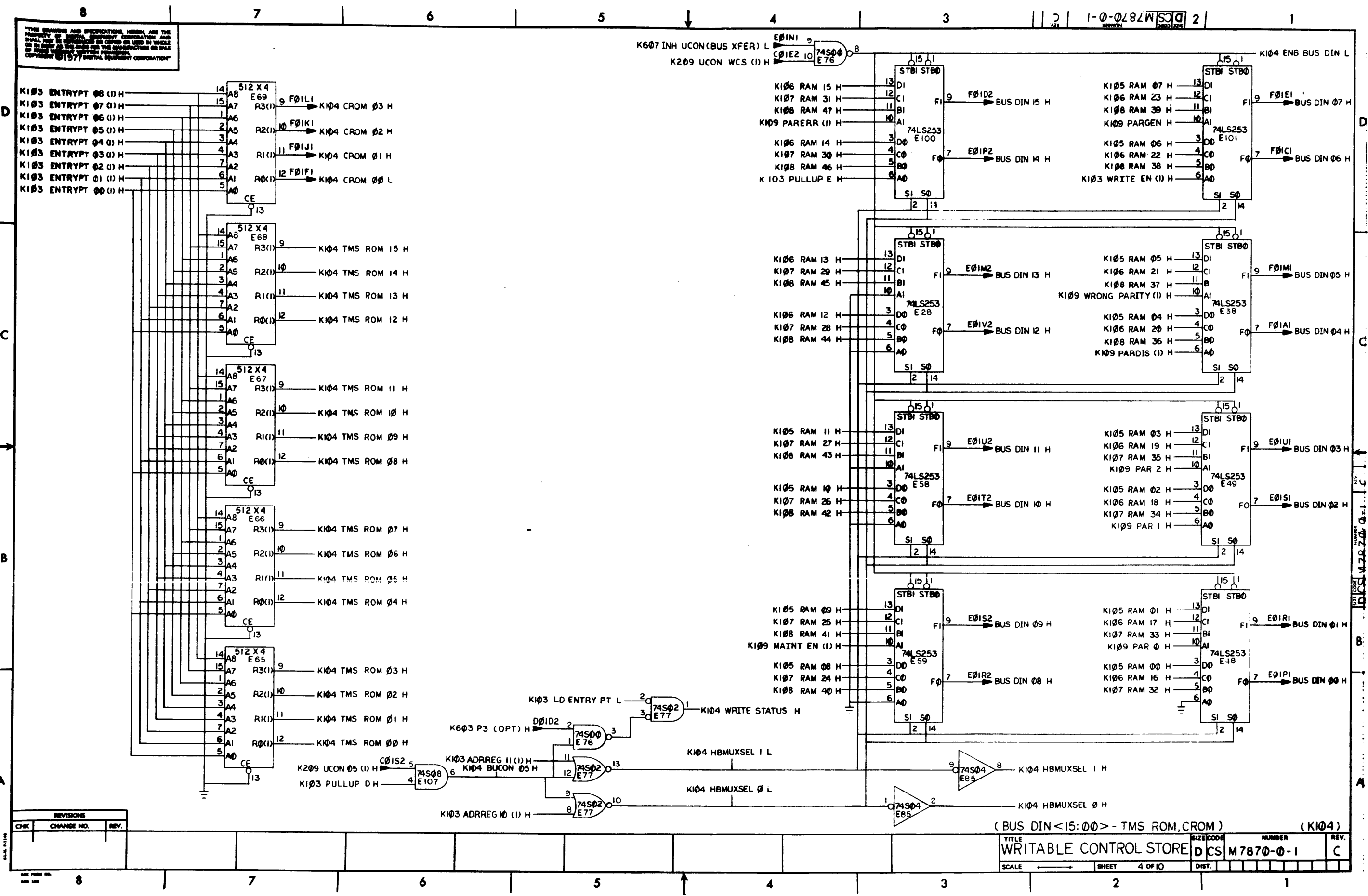
REVISIONS		
CHK	CHANGE NO.	REV.

(TABLES)

(K102)

TITLE	SIZE CODE	NUMBER	REV.
WRITABLE CONTROL STORE	D CS	M7870-0-1	C
SCALE	SHEET 2 OF 10	DIST.	



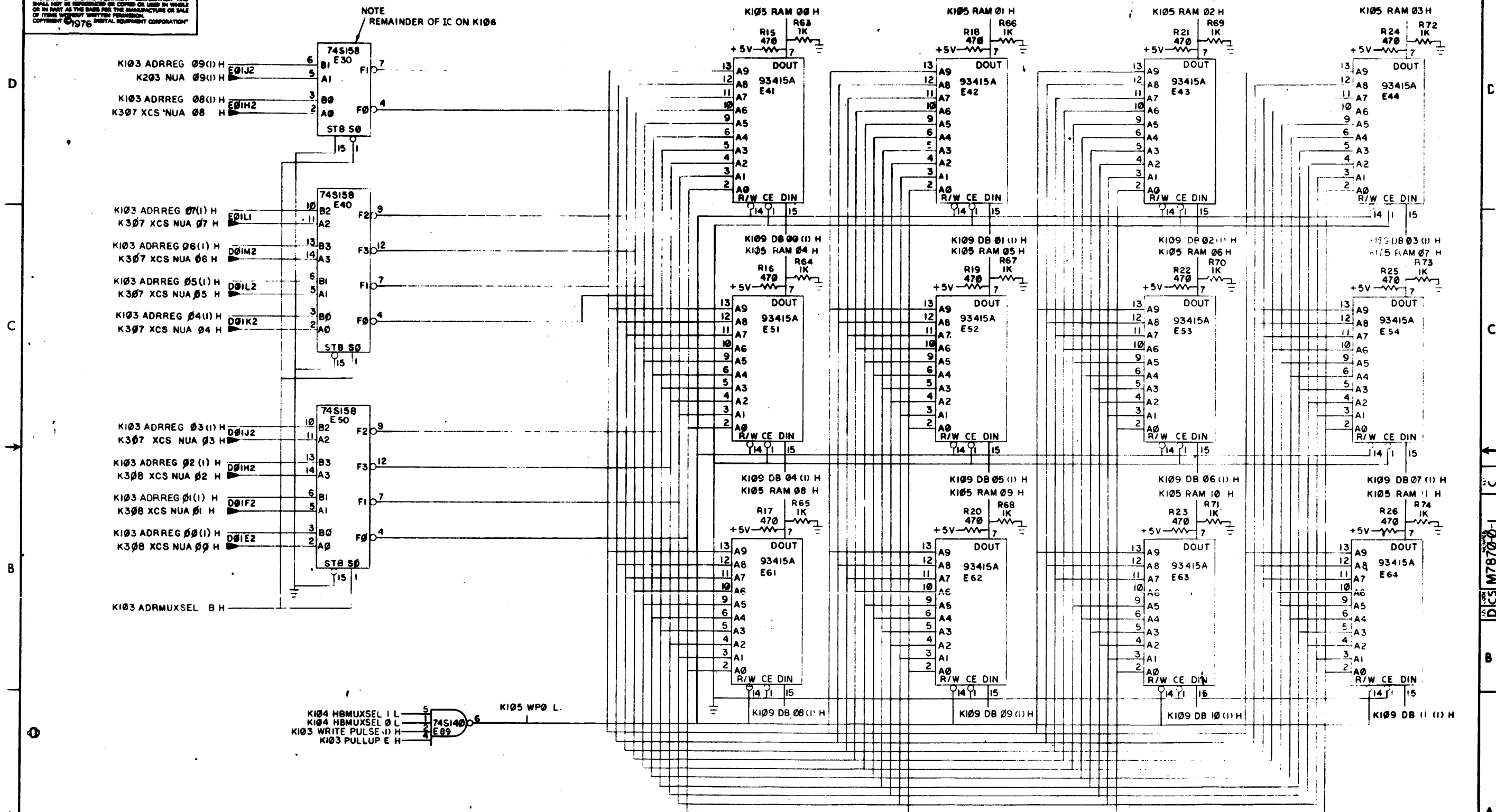


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	WRITABLE CONTROL STORE	SIZE CODE	D CS	NUMBER	M7870-0-1	REV.	C
SCALE		SHEET	4 OF 10	DIST.			

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NOTE
REMAINDER OF IC ON K106

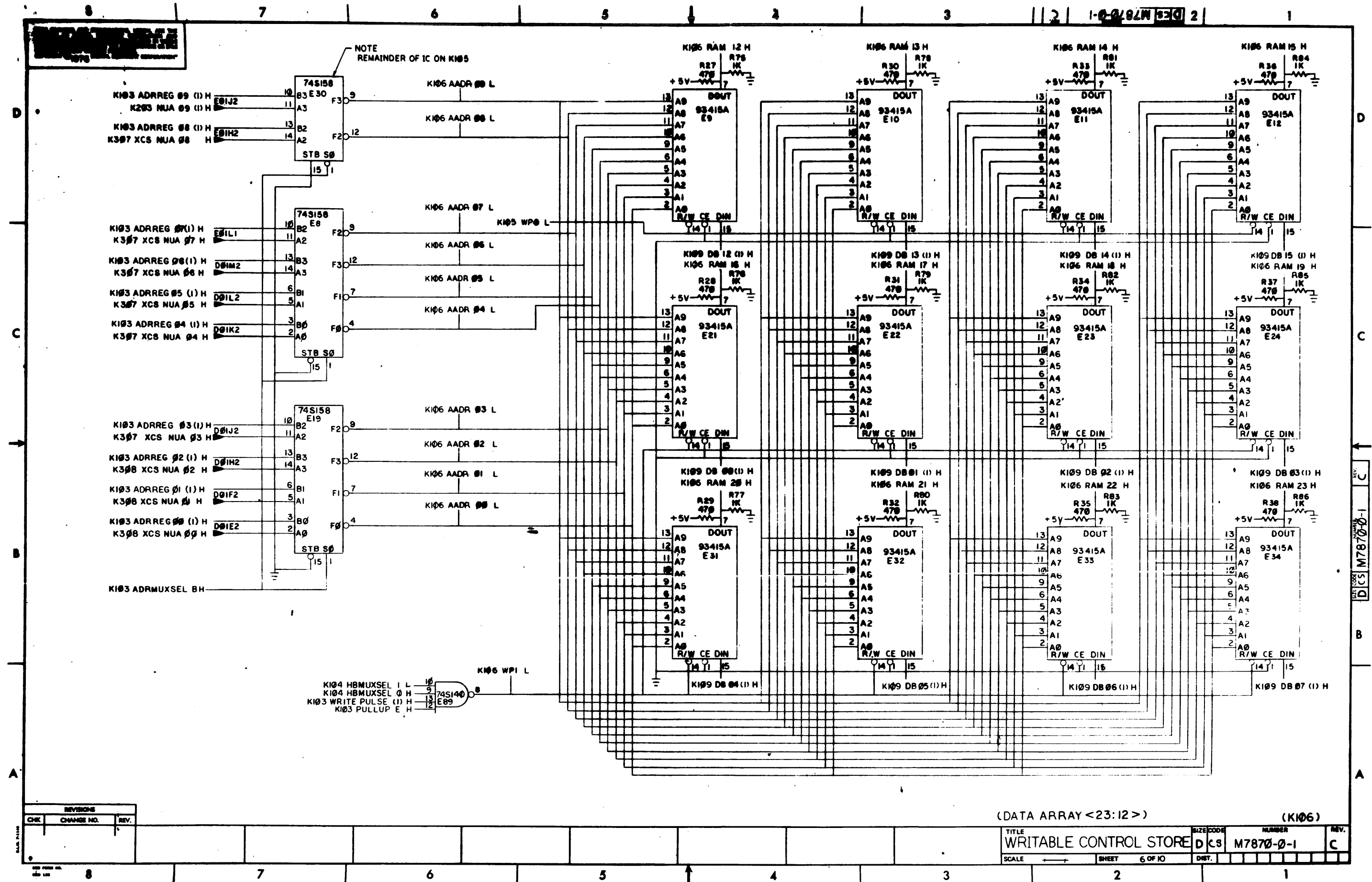


REVISIONS		
CHK	CHANGE NO.	REV.

(DATA ARRAY <11:00>)

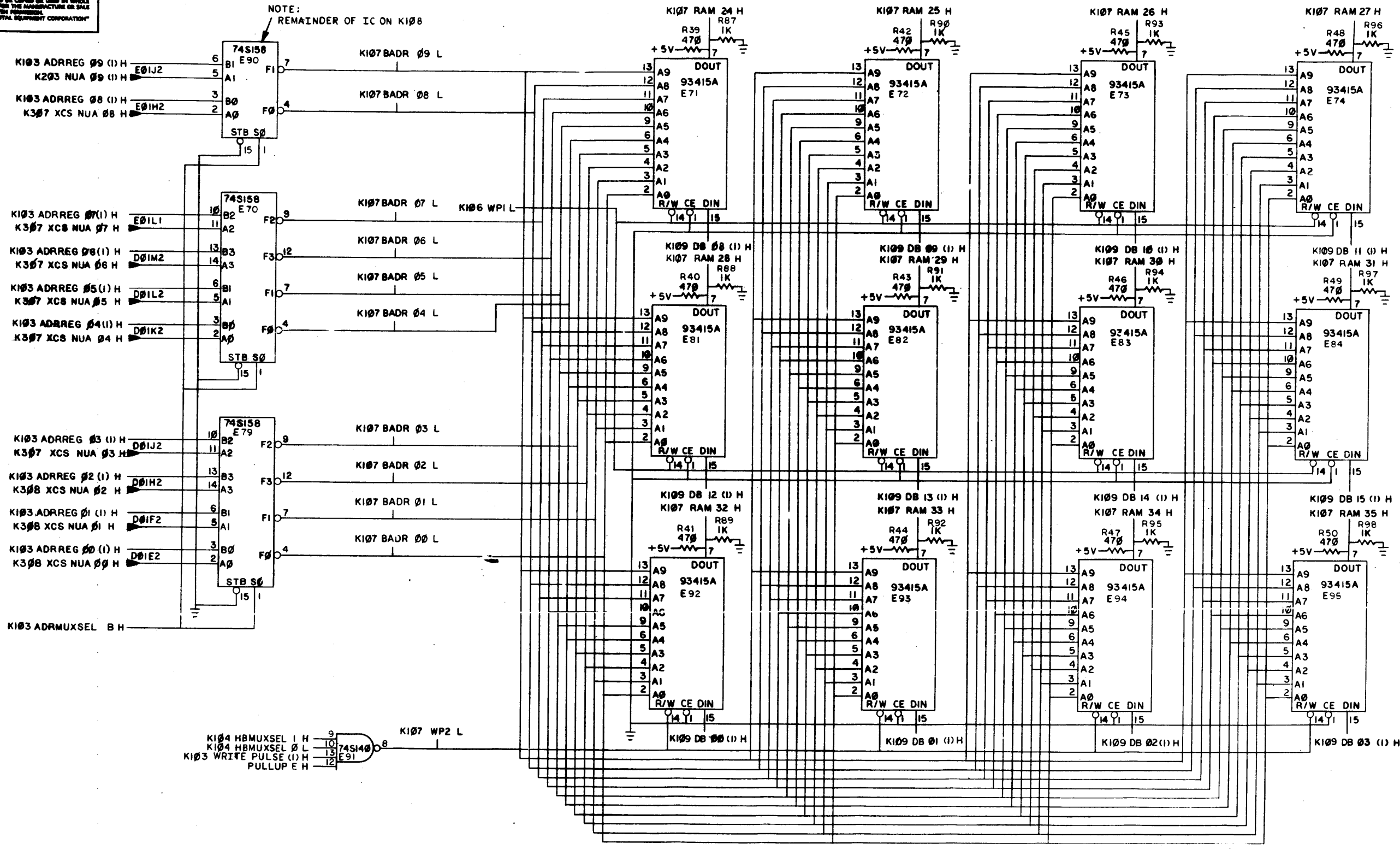
(K105)

TITLE	SIZE CODE	NUMBER	REV.
WRITABLE CONTRL STORE	DCS	M7870-0-1	C
SCALE	SHEET	5 OF 10	DIST.

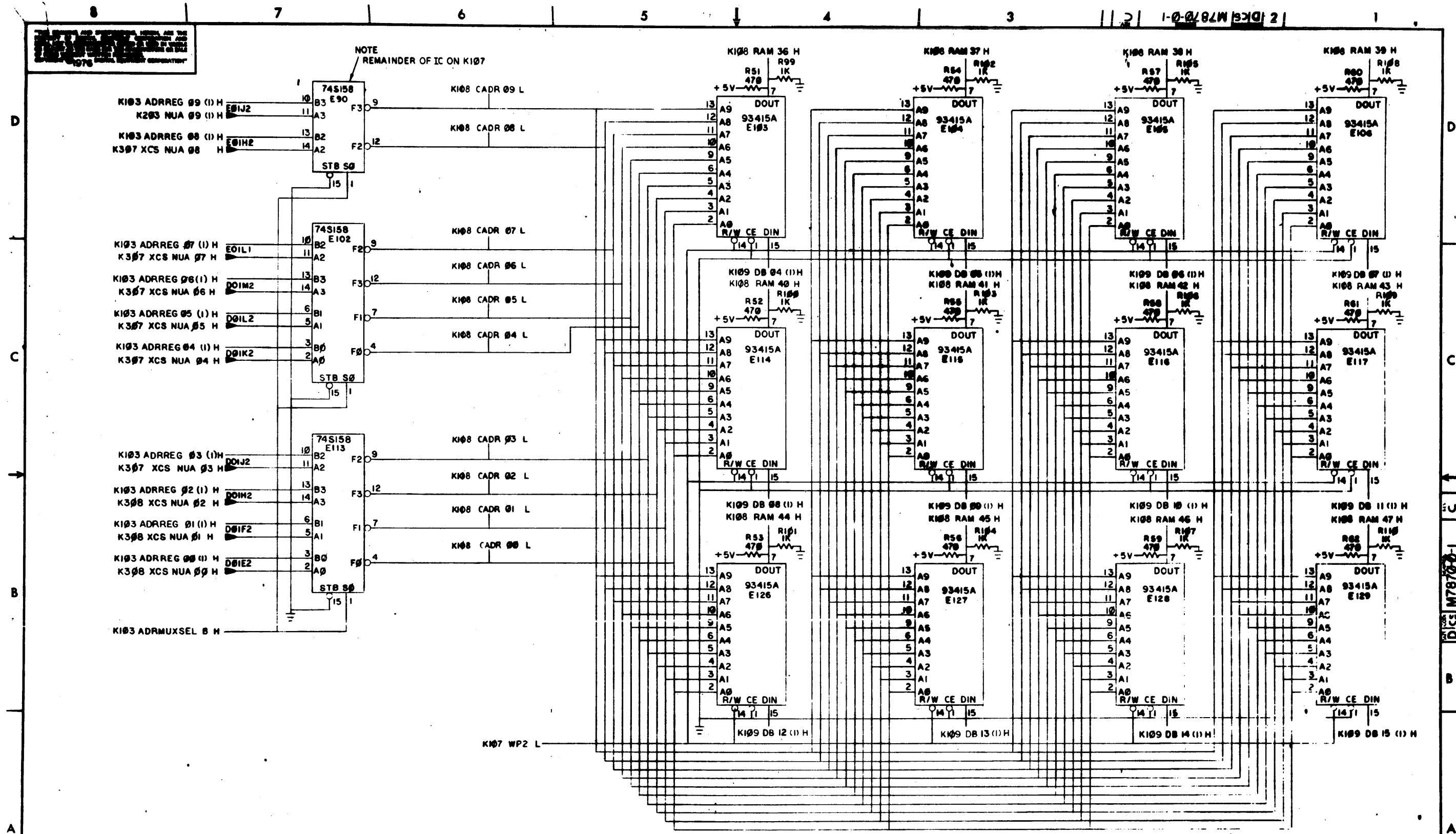


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NOTE:
REMAINDER OF IC ON KI08

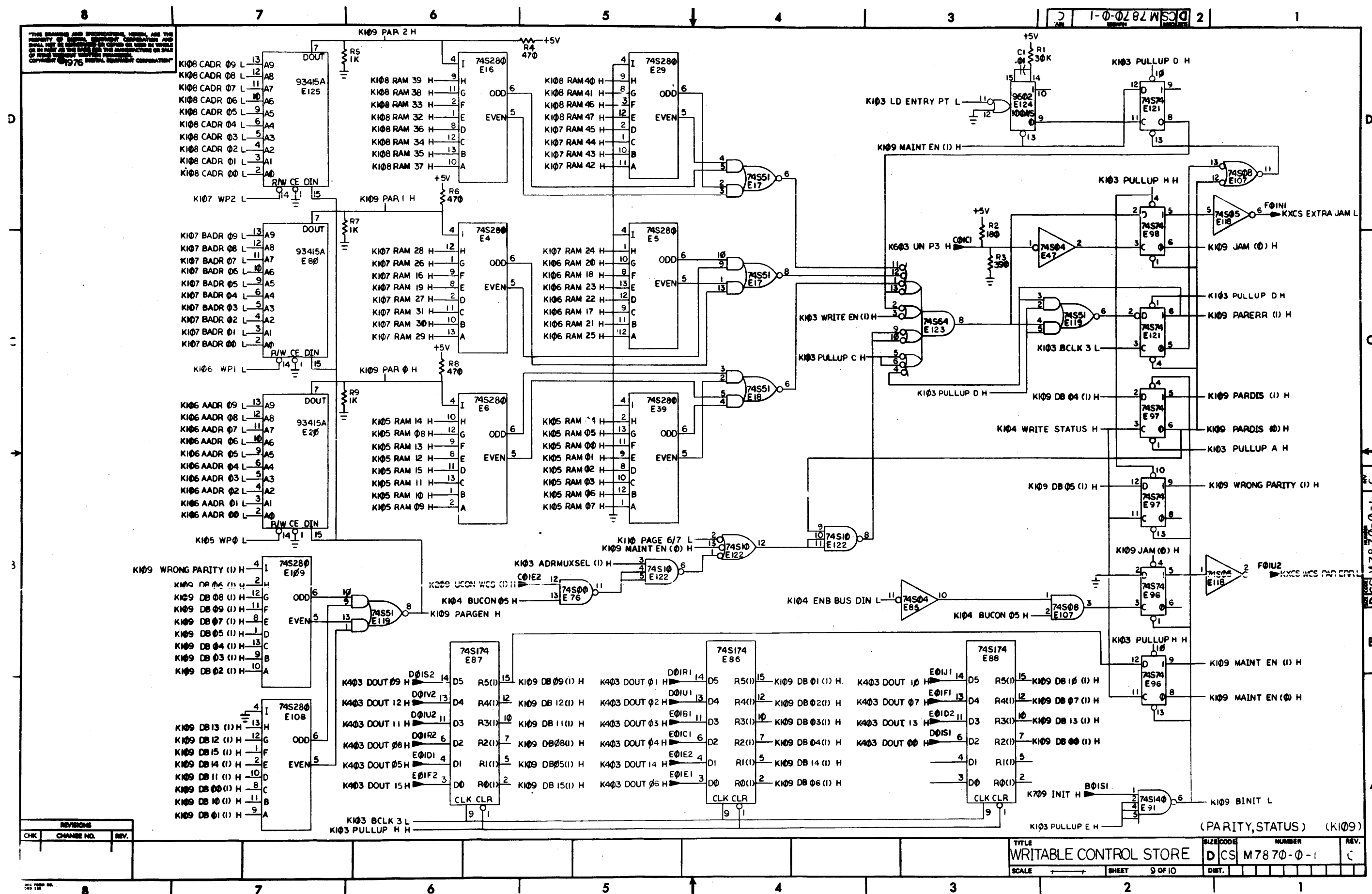


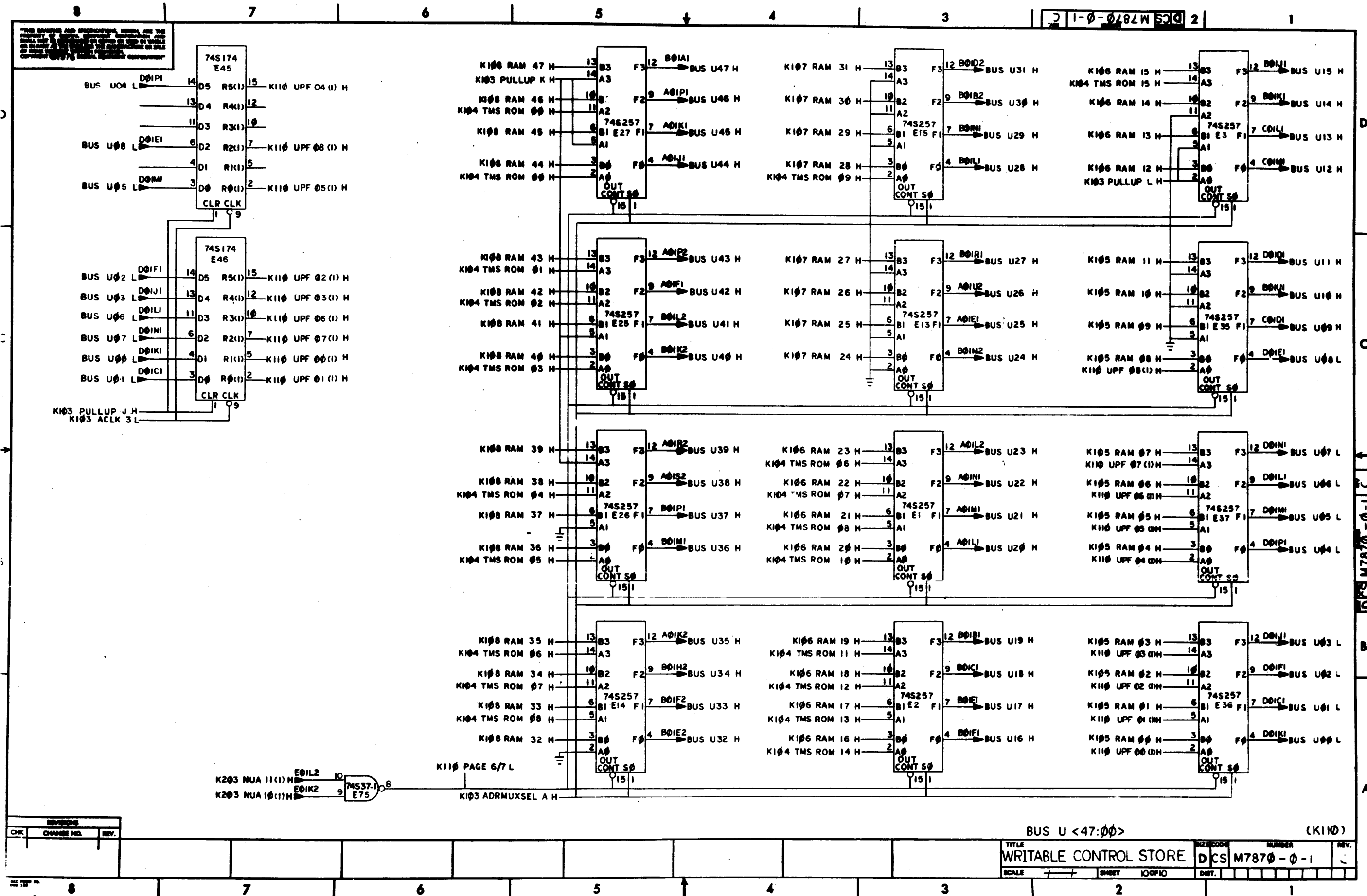
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REVISIONS		
CHK	CHANGE NO.	REV.

(DATA ARRAY <47:36>)		(K108)	
TITLE WRITABLE CONTROL STORE		NUMBER D CS M7870-0-1	REV. C
SCALE	INCHES	8 OF 10	DATE



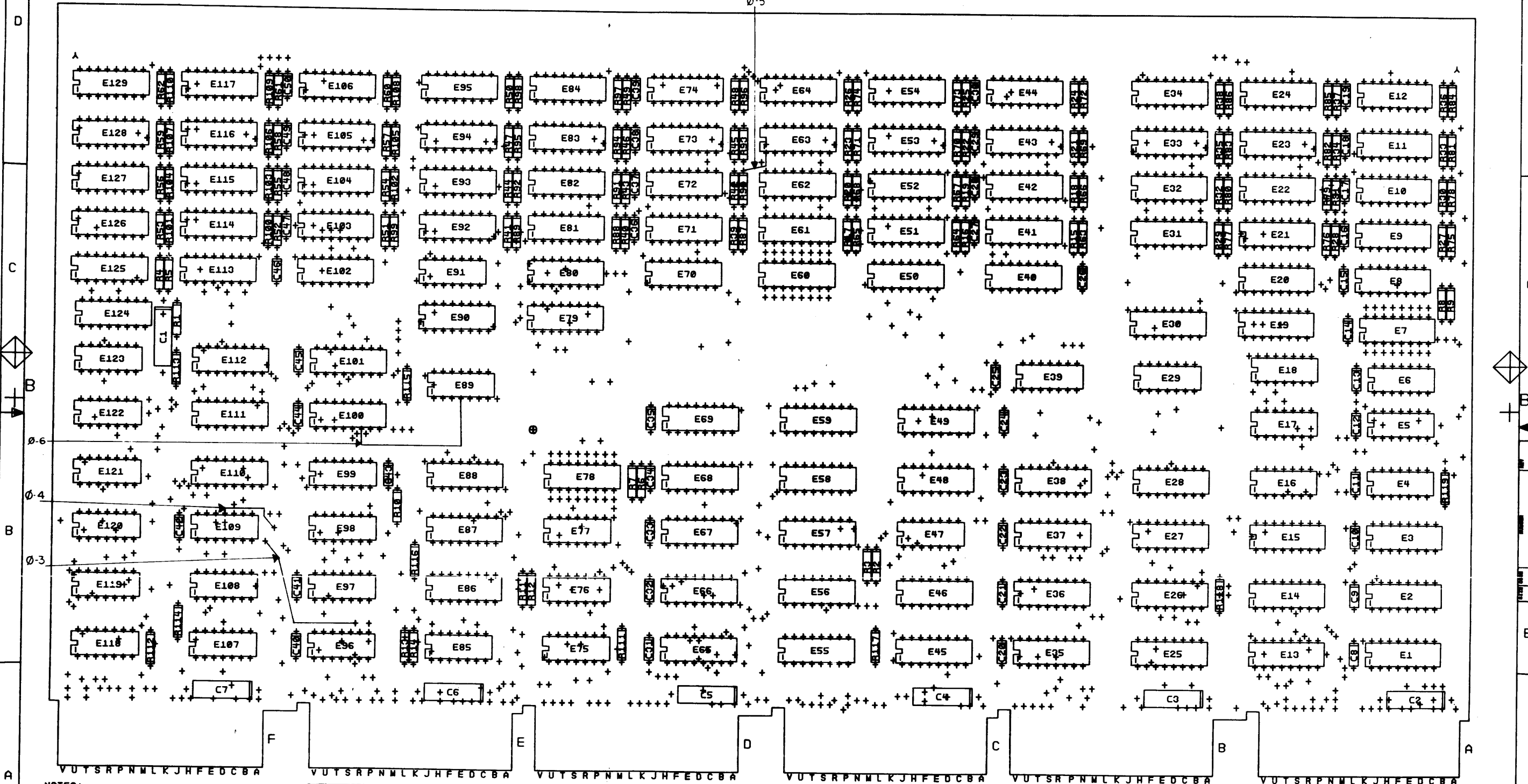


DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:					
MADE BY DATE		R. LAW 8 JUN 77		CHECKED FRANK SMART DATE 8-29-77		SECTION															
ENG M. Carnofiele DATE 9/28/77		PROD M. Schuch DATE 9/28/77		ISSUED SECTION																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7870-0-0													REF DESIGNATION				
1	D-MD-5011679-0-0	5011679	ETCH BOARD	1																	
2		1005784	CAPACITOR, .01mf, 100V, 10%	1													C1				
3		1005306	CAPACITOR, 6.8mf, 35V, 10%	6													C2-C7				
4		1012784	CAPACITOR, .047mf, 50V	43													C8-C50				
5		1300316	RESISTOR 470 OHM, 1/4W, 5%	51													R4, R6, R8, R15-R62				
6		1300365	RESISTOR 1K, OHM, 1/4W, 5%	61													R5, R7, R9, R10, R63-R119				
7		1301322	RESISTOR 180 OHM, 1/4W, 5%	2													R2, R13				
8		1301972	RESISTOR 270 OHM, 1/4W, 5%	1													R11				
9		1300309	RESISTOR 390 OHM, 1/4W, 5%	3													R3, R12, R14				
10		1302394	RESISTOR 30K .1/4W, 5%	1													R1				
11		1910532	I.C. DEC 74S00	1													E76				
12		1912388	I.C. DEC 74S02	1													E77				
13		1910534	I.C. DEC 74S04	2													E47, E85				
14		1912389	I.C. DEC 74S09	1													E107				
15		1910535	I.C. DEC 74S05	1													E118				
16		1912746-01	I.C. DEC 74S37-1	1													E75				
17		1910541	I.C. DEC 74S40	1													E120				
18		1911712	I.C. DEC 74S51	3													E17, E18, E119				
19		1910542	I.C. DEC 74S64	1													E123				
20		1910544	I.C. DEC 74S74	5													E96-E99, E121				
E.C.O. NO.																					
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				SHEET 1 OF 3				INSERTION PARTS LIST DATA BASE REV C													

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:					
MADE BY DATE		R. LAW 8 JUN 77		CHECKED FRANK SMART DATE		8-29-77		SECTION													
ENG DATE		M. Carrasfello 9/28/77		PROD DATE		M. Schuch 9/28/77		ISSUED SECTION													
ITEM NO.		DRAWING NO.		PART NO.		DESCRIPTION		REF DESIGNATION													
41				1212385-Ø2		SOCKET 16 PIN		E65-E69													
42				121Ø711-Ø2		HANDLE ASSY		E 7, E60, E 78													
43				9ØØØØ24 Ø1		EYELETS															
44						IC SPARES															
45				9105740-55		WIRE, JUMPER															
46																					
47																					
48																					
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E.C.O. NO.																					
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												SHEET 3 OF 3				INSERTION PARTS LIST DATA BASE REV C					

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COMPONENT SIDE VIEW



- NOTES:
- Ø-1. 8 HOLES .045 (+.005-.005) MAYNARD ONLY
 - Ø-2. ETCH CUT FROM PTH NEAR E109-7 TO PTH NEAR E108-7, SIDE 1, SEE SHEET 2
 - Ø-3. ADD WIRE FROM PTH RIGHT OF E109-7 TO PTH BETWEEN E96-9/10
 - Ø-4. ADD WIRE FROM E109-11 TO PTH BETWEEN E109 / E98.
 - Ø-5. ADD WIRE FROM E63-1 TO GROUND SIDE OF R90.

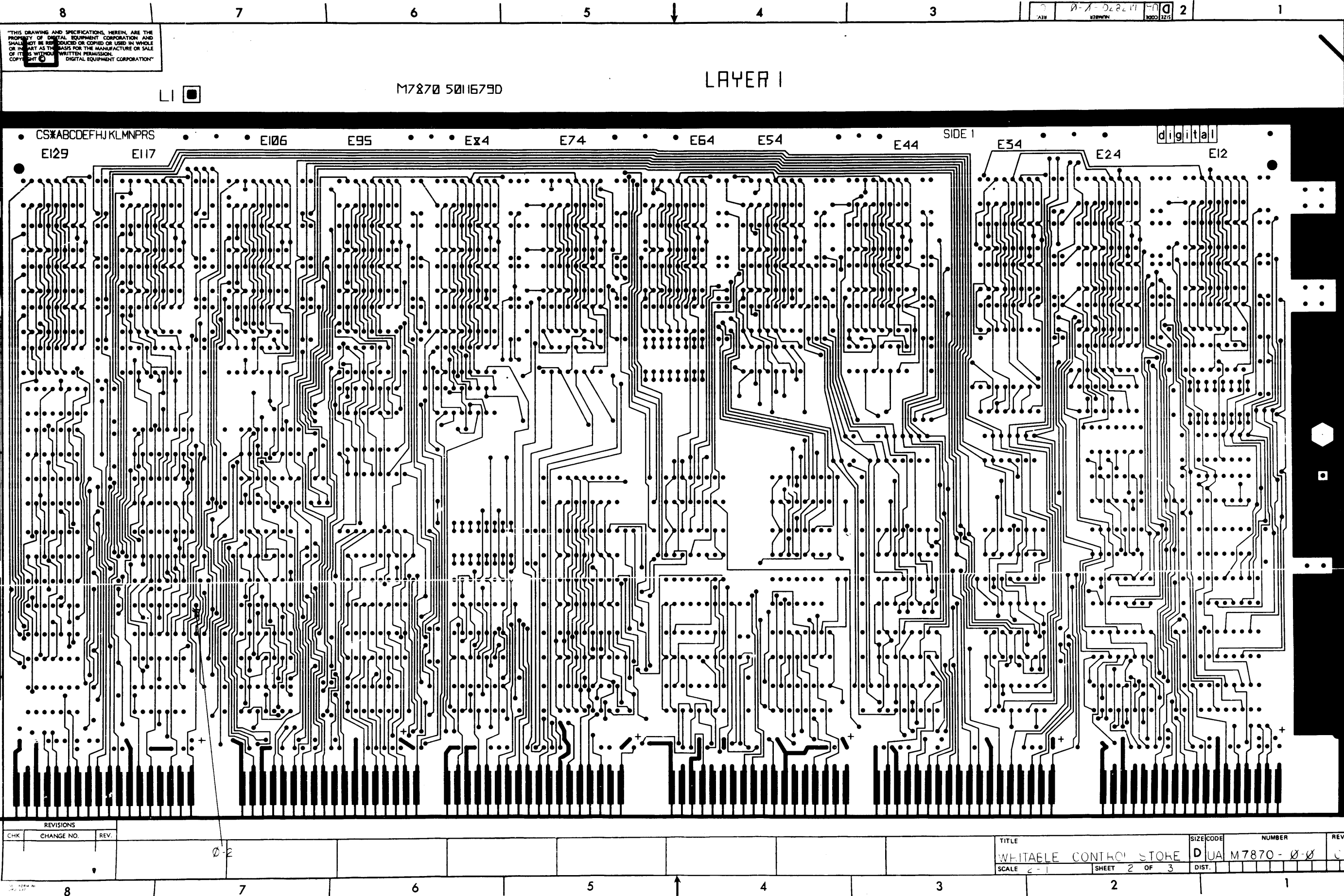
Ø-6: ADD WIRE FROM E100-6 TO E89-4.

CHK	CHANGE	NO	REV

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

SIGNATURES		DATE
DRN. <i>Thomas Duke</i>		7/24/79
CHK'D. <i>Thomas Duke</i>		7/26/79
ENG'D. <i>Thomas Duke</i>		7/26/79
PROJ. ENG. <i>Thomas Duke</i>		7/26/79
PROD. <i>Thomas Duke</i>		7/26/79
SCALE 2-1		
SHT. 1 OF 3		
NEXT HIGHER ASSY.		

TITLE WRITABLE	
CONTROL STORE	
SIZE CODE	NUMBER
0	UA M7870-0-0
REV	C



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LI ☐

M7870 50116790

LAYER 1

CS*ABCDEFGHIJKLMNPRS E129 E117 E106 E95 E84 E74 E64 E54 E44 E34 E24 E12 digital

REVISIONS			TITLE		SIZE CODE	NUMBER	REV.
CHK	CHANGE NO.	REV.	WHITABLE CONTROL STORE		DUA	M7870-0-0	C
			SCALE	SHEET	2 OF 3	DIST.	

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U R3YAJ

L 4

M7870 501679C WRITABLE CONTROL STORE SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
WRITABLE CONTROL STORE		D UA	M7870-0-0	C
SCALE	2-1	SHEET	3 OF 3	DIST.

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	P. BOUDREAU
DATE	23 SEPT 77
ENG	M. Carrafiello
DATE	9/28/77

CHECKED	P. BOUDREAU
DATE	23 SEPT 77
PROD	<i>M Schenck</i>
DATE	<i>10/07/77</i>

SECTION	1
ISSUED SECT.	1

QUANTITY VARIATION

[illegible][illegible]

TITLE KUL16-AA SHIPPING LIST	ASSY NO.	SIZE	CL DE	NUMBER	REV	ECO NO.
	NONE	A	PL	KUL16-AA-2	A	KUL16-AA-00001
SHEET 1 OF 1	DIST					

PARTS LIST

DATE 23 SEPT 77

ENG M. Carrasquillo

DATE 9/28/77

DATE 23 SEPT 77

PROD *M. J. Lynch*

DATE 10/07/77

SECTION

1

ISSUED SECT.

1

QUANTITY VARIATION

KU116-AE

KU116-AT

KU116-AZ

ITEM
NO.

DWG NO./PART NO.

DESCRIPTION

1

D-UA-M7870-0-0

WRITABLE CONTROL STORE

1

1

3