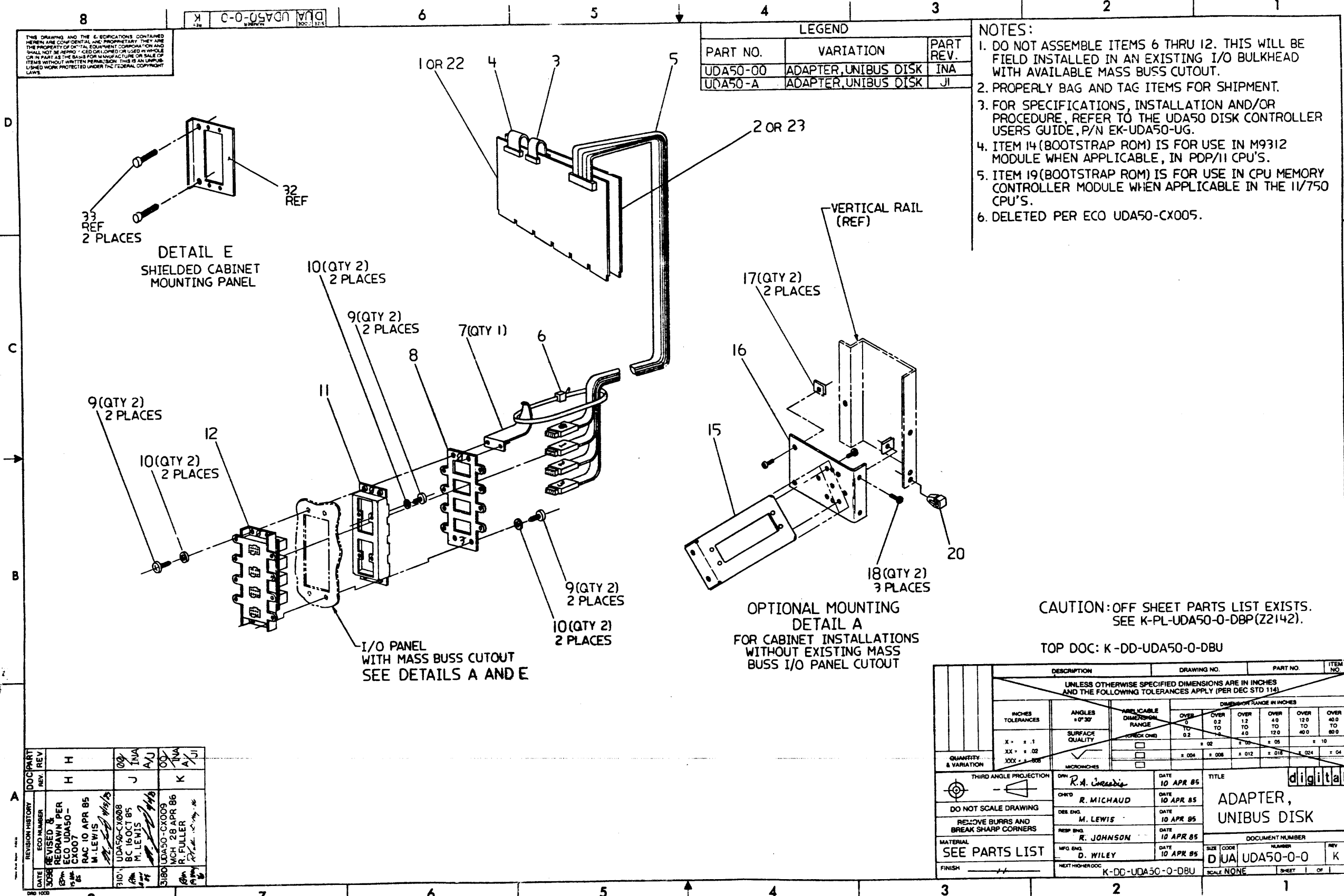




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LEGEND		
PART NO.	VARIATION	PART REV.
UDA50-00	ADAPTER, UNIBUS DISK	INA
UDA50-A	ADAPTER, UNIBUS DISK	J1

- NOTES:
- DO NOT ASSEMBLE ITEMS 6 THRU 12. THIS WILL BE FIELD INSTALLED IN AN EXISTING I/O BULKHEAD WITH AVAILABLE MASS BUSS CUTOUT.
 - PROPERLY BAG AND TAG ITEMS FOR SHIPMENT.
 - FOR SPECIFICATIONS, INSTALLATION AND/OR PROCEDURE, REFER TO THE UDA50 DISK CONTROLLER USERS GUIDE, P/N EK-UDA50-UG.
 - ITEM 14 (BOOTSTRAP ROM) IS FOR USE IN M9312 MODULE WHEN APPLICABLE, IN PDP/11 CPU'S.
 - ITEM 19 (BOOTSTRAP ROM) IS FOR USE IN CPU MEMORY CONTROLLER MODULE WHEN APPLICABLE IN THE 11/750 CPU'S.
 - DELETED PER ECO UDA50-CX005.



CAUTION: OFF SHEET PARTS LIST EXISTS. SEE K-PL-UDA50-0-DBP(Z2142).
TOP DOC: K-DD-UDA50-0-DBU

DATE	ECO NUMBER	REVISION HISTORY	DOC PART REV.
8/15/85	3180	REVISION 11 REVISION 10 REVISION 9 REVISION 8 REVISION 7 REVISION 6 REVISION 5 REVISION 4 REVISION 3 REVISION 2 REVISION 1	H
7/10/85	3101	UDA50-CX008 BC 15 OCT 85 M. LEWIS	J
6/28/85	3180	UDA50-CX009 MCH 28 APR 86 R. FULLER	K

DESCRIPTION		DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)				
INCHES TOLERANCES	ANGLES ± 0° 30'	APPLICABLE DIMENSIONAL RANGE	DIMENSIONAL RANGE IN INCHES	
			OVER	UNDER
X ± .1	± .02	0 TO 1.2	0 TO 12.0	0 TO 40.0
XX ± .02	± .01	1.2 TO 4.0	12.0 TO 40.0	40.0 TO 80.0
XXX ± .008	± .005	4.0 TO 12.0	40.0 TO 120.0	80.0 TO 200.0
QUANTITY & VARIATION	SURFACE QUALITY	CHECK ONE	± .004	± .008
THIRD ANGLE PROJECTION	FINISH	✓	± .012	± .018
DO NOT SCALE DRAWING	REMOVE BURRS AND BREAK SHARP CORNERS	□	± .024	± .04
MATERIAL SEE PARTS LIST	FINISH	□	± .036	± .054
DATE 10 APR 85	DATE 10 APR 85	DATE 10 APR 85	DATE 10 APR 85	DATE 10 APR 85
DRW R.A. CORREIA	CHKD R. MICHAUD	DES ENG M. LEWIS	RESP ENG R. JOHNSON	MFG ENG D. WILEY
TITLE ADAPTER, UNIBUS DISK		DOCUMENT NUMBER		
SIZE CODE DUA		NUMBER UDA50-0-0		
FINISH		SCALE NONE		
K-DD-UDA50-0-DBU		SHEET 1 OF 1		

DRAWING NUMBER
UDA50-0-0

1 of 1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	00	A	QUANTITY PER VARIATION/REVISION
					INA	J1	
1	D-UA-M7162-0-0	M7162-00		UDA#2 (UNIBUS DISK ADAPTER BOARD#2	1	-	
2	D-UA-M7161-0-0	M7161-YA		M7161 W BLASTED ROM'S,4-LAYER HEX	1	-	
3	C-IA-7018447-0-0	70-18447-00	B	40 PIN FLAT CABLE ASSEMBLY	1	1	
4	C-IA-7018448-0-0	70-18448-00		50 PIN FLAT CABLE ASSEMBLY	1	1	
5		17-00463-01	A	CABLE,COAX,ASSY,SI SHIELDED RIBBON	1	1	
6		90-07032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	1	1	
7	C-MD-7426095-0-0	74-26095-01		BRACKET,CABLE RETAINER	1	1	
8	C-MD-7426090-0-0	74-26090-01		MOUNT,REAR CONN.	1	1	
9		90-06011-01		SCREW,MACH PAN PHIL 4-40	12	12	
10		90-06688-00		WASHER,HELICAL SPLIT SST	12	12	
11	D-IA-7426094-0-0	74-26094-01		HOUSING,REAR SHIELD	1	1	
12	C-AD-7018454-0-0	70-18454-01		UDA BULKHEAD SUB-ASSEMBLY	1	1	
13		37-00652-01		PKG KIT OPTION UDA50 CUSTOMER	1	1	
14	SEE NOTE # 14	23-767A9-00	A	A9-01	1	1	
15	D-IA-7425425-0-0	74-25425-01		BULKHEAD,I/O UDA,RETMA MNT	1	1	
16	C-MD-7425426-0-0	74-25426-01		BRACKET,VERTICAL RAIL	1	1	
17		90-07786-00		RETAINER,U-NUT 10-32X	4	4	
18		90-09700-00		SCREW,SEMS TRUSS PHIL 10-32	6	6	
19	SEE NOTE # 19	23-990A9-00	A	A9-01	1	1	
20		90-07867-00		MOUNT, PUSH,CABLE TIE	3	3	
21	SEE NOTE # 21	EK-UDA50-UG		UDA50 CONTROLLER USER GUIDE	1	1	
22	D-UA-M7486-0-0	M7486-00		UDA SI	-	1	
23	D-UA-M7485-0-0	M7485-YA		M7485 W/BLASTED ROMS,4-LAYER HEX	-	1	
24	B-MD-7427791-0-0	74-27791-01	A	MOUNT,GROUNDING	2	-	
25		90-06634-00		WASHER,LOCK INTERNAL STEEL	2	-	
26	B-IA-7427505-0-0	74-27505-01		BRACKET,CABLE MOUNTING	1	-	
27	C-IA-7427503-0-0	74-27503-01		ANGLE,GROUNDING	1	-	
28	C-IA-7427504-0-0	74-27504-01		BRACKET,GROUNDING	1	-	
29		90-06024-01		SCREW,MACH PAN PHIL 6-32	2	-	
30		90-06558-00		NUT,HEX 6-32X .307AF CS/CAD	2	-	
31		90-06633-00		WASHER,LOCK INTERNAL STEEL	2	-	
32		74-26407-05		PANEL,DOUBLE (MASS BUS)	-	1	

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF AIDRN: R. DUCHARME		DIGITAL				
ENC	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 03-NOV-85	TITLE PARTS LIST			
RD	INITIAL	A	[A]	00,A	CHK'D: W.C.M.	ADAPTER, UNIBUS DISK			
BD	UDA50-CX001	B	[B]		DATE: 03-NOV-85				
RD	UDA50-CX002	C	[C]		DES.ENG: R. DUCHARME				
JW	UDA50-CX003	D	[D]		DATE: 03-NOV-85	DOCUMENT NUMBER			
TK	UDA50-CX004	E	[E]			SIZE	CODE	NUMBER	REV
TK	UDA50-CX005	F	[F]		RESP.ENG.: W. MATHRANI				
ML	UDA50-CX007	H	[H]		DATE: 03-NOV-85	K	PL	UDA50-0-DBP	K
ML	UDA50-CX008	J	[J]			RELEASE DATE: 28-APR-86			
RF	UDA50-CX009	K	[K]		MFG.ENG: K. SHAHEED	RELEASE STATUS: RELEASED			
					DATE: 03-NOV-85				
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
UDA50			D-UA-UDA50-0-0		K-DD-UDA50-0-DBU		Z2142K.PLS		1

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Rm
28 APR 86

AUTOMATED BY VAXKPL (V1.1)

PARTS LIST

SHEET A2 OF A2

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION	
					00 J1	A J1
33 33		12-19534-01		SCREW, CAPTV SLOT	4-40 -	2

14 NOTE: SEE NOTE 4 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).
 19 NOTE: SEE NOTE 5 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).
 21 NOTE: SEE NOTE 3 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).

D	I	G	I	T	A	L	TITLE	ADAPTER, UNIBUS DISK	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	UDA50-0-DBP	K

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				A	B	C	D												
B-DD-M7161-0	1		UDA #1	A	B	C	D												
D-UA-M7161-0-0	2		UDA #1	A	B	B	C												
K-CS-M7161-0-UDA1	15		UDA #1	B	C	D	E												
K-PL-M7161-0-DBP	-		UDA #1	A	B	C	D												
K-PC-M7161-0-DBC	-		P.C. DESIGN DATA BASE	B	B	B	B												
		5014040-00	ETCH BOARD	B	B	B	B												
D-EC-5014040-0-0	2		ETCH CUT DRAWING	A	B	B	C												
D-MD-5014040-0-0	5		DRILL AND ETCH DRAWING	A	A	A	A												

NOTES:

REVISIONS		DATE	CHG NO.	REV.
	INIT			A
	M7161-C001			B
	M7161-C002			C
	M7161-C003			D

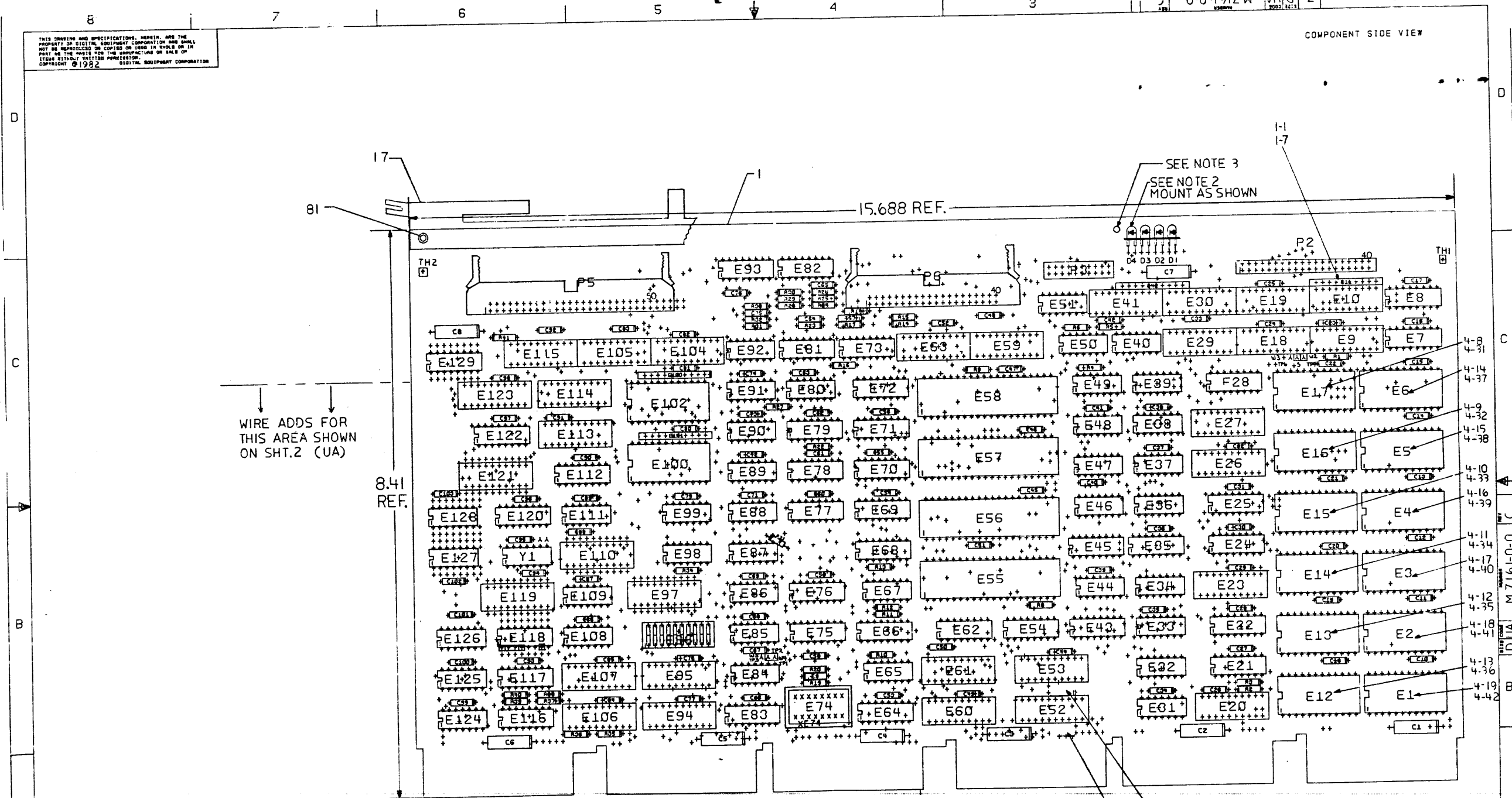
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USED ON OPTION/MODEL	DRN. TAMARA J. #1	TITLE	UDA #1
RA80	CHK'D W. Landry	DATE	1-11-82
	ENG. C. Ridgeman	DATE	2/1/82
	PROD. D. SWIFT N.L.	DATE	1-MAR-82
	SIZE	CODE	NUMBER
	B	DD	M7161-0
			REV. D
SHEET 1 OF 1			

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COMPONENT SIDE VIEW



WIRE ADDS FOR THIS AREA SHOWN ON SHT.2 (UA)

WIRE ADDS FOR THIS AREA SHOWN ON SHT.2 (UA)

NOTES: THE FOLLOWING ARE SPARES: R41, E39, E88, E97, E101, E103, E110, E118, E119, E121, E124, E127-E129.
 2. MOUNT DI-D4 ON COMPONENT SIDE, LONGER LEG TO RIGHT, LEAVE LEADS APPROXIMATELY .18 LONG.
 3. DO NOT INSTALL EYELET (ITEM 81) IN POSITION SHOWN.

STEP	Y AXIS	NA	STEP	TIMES
REPEAT	X	NA	STEP	TIMES

CHANGE NO	REV	DESCRIPTION
A		CONTROL AT REV A
B		M7161-CK001 & A 18 AUG 81 C-RIDGEWAY
C		M7161-CK004 SL 25 JUL 82 CA 100 WY

ETCH REV. B

SIGNATURES	DATE	TITLE
DRN. <i>R. M. ...</i>	29 APR 82	digital
CHK'D. <i>D. E. ...</i>	27 APR 82	
MECH. ENG. <i>M. ...</i>	16 MAR 81	
PROJ. ENG. <i>M. ...</i>	16 MAR 82	
PROD. <i>D. ...</i>	16 MAR 82	
SCALE 1.5/1		
SHT. 1 OF 4		
NEXT HIGHER ASSY. B-DD-M7161-0		

4-8 4-31
 4-14 4-37
 4-9 4-32
 4-15 4-38
 4-10 4-33
 4-16 4-39
 4-11 4-34
 4-17 4-40
 4-12 4-35
 4-18 4-41
 4-13 4-36
 4-19 4-42
 M7161-0-0
 DUA
 C

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ECO M7161-0-0

LEGEND:

- 0-XX = PCO-UDA 001.
- 1-XX = PCO-UDA 004.
- 2-XX = PCO-UDA 011.

REWORK INSTRUCTIONS-INITIAL RELEASE

0-1.
0-2.
0-3.
0-4. } SEE D-EC-5014040-0-0
0-5.
0-6.
0-7.

WIRE ADDS-COMPONENT SIDE AS SHOWN:
 0-8. FROM PTH ABOVE C68 TO PTH TO LEFT OF E86-1.
 0-9. FROM E85-5 TO E76-11.
 1-10. FROM E76-15 TO PTH ON LEFT OF E85.
 1-11. FROM PTH BELOW E75-7&8 TO E87-10.
 0-12. FROM E87-11 TO PTH BELOW E66 & E75.
 0-13. FROM E66-7 TO E76-11.

COMPONENT DELETES:
 1-14. DELETE CAPACITOR C70 (1012784).
 1-15. RESISTOR R42 (1300447).
 1-16. I.C. SOCKET XE55 (1215006-08).
 1-17. XE56
 1-18. XE57
 1-19. XE58 (-08).
 1-20. XE91 (-01).
 1-21. XE100 (-06).
 1-22. XE102 (-06).
 1-23. DELETE I.C. SOCKET XE108 (1215006-01).

COMPONENT ADDS:
 1-24. ADD RESISTOR R2 (1300229).
 1-25. R12 (1300229).
 1-26. R3 (1301972).
 1-27. RESISTOR R11 (1301972).
 1-28. I.C. (23013F4-01) E100.
 1-29. ADD I.C. (23014F4-01) E102.

1-30. REMOVE RESISTOR R7 - 1300316 AND REPLACE WITH 1300365.
 1-31. R24-1302379 1312929.
 1-32. R25- 1312929.
 1-33. R33- 1312929.
 1-34. R14- 1302377.
 1-35. R17-
 1-36. R27-
 1-37. R29-
 1-38. R30-
 1-39. R31-
 1-40. RESISTOR R32-1302379 1302377.
 1-41. I.C. Y1 - 1811660-24 1811660-16.
 1-42. E35-1912847 1910548.
 1-43. E68-
 1-44. E69-
 1-45. E70-
 1-46. I.C. E71-1912847 1910548.
 1-47. REMOVE CAPACITOR C43-1012784 AND REPLACE WITH 1013466-11. MOUNT IN PTH ABOVE E52-12 & PTH BELOW E53-5 AS SHOWN.
 1-48. REMOVE RESISTOR R21-1300479 AND REPLACE WITH 1300417. MOUNT IN PTH BELOW E77-2 & PTH ABOVE E87-9 AS SHOWN.

WIRE ADDS-COMPONENT SIDE AS SHOWN:
 2-1. FROM PTH ABOVE Y1-8 TO PTH ABOVE Y1-9.

ECO M7161-CX001

COMPONENT DELETES (SIDE 1)
 1-1. DELETE E11,R NETWORK 8-1.39K, 5%, 10 PIN (1312114-00).

WIRE ADDS (SIDE 1) 30 AWG
 1-4. FROM E86-1 TO E68-2.
 1-5. FROM E86-3 TO E66-13.
 1-6. FROM E86-2 TO PTH BELOW & TO LEFT OF E86-1.
 (IF REWORK STEP 0 6 HAS BEEN DONE).

COMPONENT ADDS (SIDE 1)
 1-7. ADD E11,R NETWORK, 9-1K, 2%, 10 PIN (1316395 02).

DUA M7161-0-0

2062

REVISION HISTORY			DOCUMENT NUMBER	
DATE	ECO NUMBER	REV.	SIZE CODE	NUMBER
			DUA	M7161-0-0
			SCALE	SHEET 3 OF 4

UDA # 1

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ECO M7161-CX004

COMPONENT DELETES

4-1.	DELETE CAPACITOR	C94 (1012784-00).
4-2.		C95 (1012784-00).
4-3.	CAPACITOR	C43 (1013466-11).
4-4.	RESISTOR	R7 (1300365-00).
4-5.	RESISTOR	R21 (1300417-00).
4-6.	OSILLATOR	Y1 (1811660-16) SAVE PART.
4-7.	IC SOCKET	XY1 (1215006-01).
4-8.	CROM	E17 (23043F4-00).
4-9.	|	E16 (23044F4-00).
4-10.	|	E15 (23045F4-00).
4-11.	|	E14 (23046F4-00).
4-12.	|	E13 (23047F4-00).
4-13.	|	E12 (23048F4-00).
4-14.	|	E6 (23049F4-00).
4-15.	|	E5 (23050F4-00).
4-16.	|	E4 (23051F4-00).
4-17.	|	E3 (23052F4-00).
4-18.	|	E2 (23053F4-00).
4-19.	DELETE CROM	E1 (23054F4-00).

COMPONENT ADDS

4-22.	ADD COUNTER	E127 (1914451-00).
4-23.	COUNTER	E128 (1914451-00).
4-24.	74LS164	E124 (1912850-00).
4-25.	POST	TP21 (9009149-01).
4-26.	|	TP22
4-27.	|	TP23
4-28.	POST	TP24 (9009149-01).
4-29.	CLIP	W14 (1215899-00).
4-30.	OSCILLATOR	Y1 (1811660-16).
4-31.	CROM	E17 (23064F4-00).
4-32.	|	E16 (23065F4-00).
4-33.	|	E15 (23066F4-00).
4-34.	|	E14 (23067F4-00).
4-35.	|	E13 (23068F4-00).
4-36.	|	E12 (23069F4-00).
4-37.	|	E6 (23070F4-00).
4-38.	|	E5 (23071F4-00).
4-39.	|	E4 (23072F4-00).
4-40.	|	E3 (23073F4-00).
4-41.	|	E2 (23074F4-00).
4-42.	ADD CROM	E1 (23075F4-00).

WIRE ADDS SIDE 1-30AWG-AS SHOWN

4-43.	ADD WIRE FROM	E124-1	TO	E124-2.
4-44.	|	E124-1	|	E124-9.
4-45.	|	E124-9	|	E116-15.
4-46.	|	E116-15	|	TP21.
4-47.	|	E124-13	|	TP24.
4-48.	|	E85-3	|	TP23.
4-49.	|	E124-10	|	TP22.
4-50.	|	E124-8	|	E128-5.
4-51.	|	E128-2	|	E128-7.
4-52.	|	E128-7	|	PTH RIGHT OF E128-7.
4-53.	|	E128-12	|	PTH RIGHT OF E128-7.
4-54.	|	E128-6	|	E128-13.
4-55.	|	E128-1	|	E91-10.
4-56.	|	E127-8	|	E87-9.
4-57.	|	E127-1	|	E128-8.
4-58.	|	E127-7	|	PTH RIGHT OF E127-7.
4-59.	|	E127-7	|	E127-2.
4-60.	|	E127-6	|	E127-13.
4-61.	|	E127-12	|	PTH RIGHT OF E127-7.
4-62.	ADD WIRE FROM	C75-5	TO	C58.

AFTER COMPLETING ABOVE REWORK STEPS MARK THE MODULE CS REVD.

REVISION HISTORY		
DATE	ECO NUMBER	REV.

T.T.L.R UDA # 1

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
D	UA	M7161-0-0	C
SCALE	N/A	SHEET 4	OF 5

DUA M7161-0-0

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
1	1	D-MD-5014040-0-0	5014040-00	UDA NO. 1	1	1		
2	2		1012784-00	.047 MFD 50V +80-20% CER	90	90		C10-C42,C44-C69,C71-C93,C96-C103
3	3		1013466-08	680.0 MMF 50V 10% X7R CER	1	1		C9
4	4		1013466-11	*** THIS ITEM IS NOT USED ***	-	-		
5	5		1016549-00	47 MFD 10V +50-10% AL EL	8	8		C1,C2,C3,C4,C5,C6,C7,C8
6	6		1112689-00	LED .8MCD@16MA VF=5V	4	4		D1,D2,D3,D4
7	7		1209838-00	SKT,IC 16PIN DIP GOLD	1	1		XE74
8	8		1210385-01	PIN 1POS WIRE WRAP	6	6		TP1,TP2,TP3,TP4,TP5,TP6
9	9		1211164-06	SW,DIP 10POS/1PST 5VDC100MA F	1	1		E96
10	10		1212965-04	PCB,HEADER 20PIN(2X05).100CC 90D	1	1		P3
11	11		1214314-00	CONN,P+S 02SKT(1X02).100CC JUM	2	2		W2,W4
12	12		1214993-00	PCB,HEADER 40POS(2X20).100CC 90D	1	1		P2
13	13		1215006-01	*** THIS ITEM IS NOT USED ***	-	-		
14	14		1215006-06	*** THIS ITEM IS NOT USED ***	-	-		
15	15		1216832-02	PCB,HEADER 40POS(2X20).100CC 90D	1	1		P6
16	16		1216832-03	PCB,HEADER 50POS(2X25).100CC 90D	1	1		P5
17	17		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	1		
18	18		1300229-00	100.0 .25 W 5.0 % CC	7	7		R4,R5,R6,R22,R34,R2,R12
19	19		1300316-00	470.0 .25 W 5.0 % CC	4	4		R8,R9,R13,R20
20	20		1300365-00	1.0 K .25 W 5.0 % CC	3	3		R1,R10,R19
21	21		1300417-00	*** THIS ITEM IS NOT USED ***	-	-		
22	22		1301972-00	270.0 .25 W 5.0 % CC	2	2		R3,R11
23	23		1302377-00	39.0 .25 W 5.0 % CC	7	7		R14,R17,R27,R29,R30,R31,R32
24	24		1302379-00	75.0 .25 W 5.0 % CC	6	6		R15,R16,R18,R23,R26,R28
25	25		1305125-00	383.0 .25 W 1.0 % RN55D-F10	2	2		R36,R40
26	26		1311422-00	178.0 .25 W 1.0 % RN55D-F10	4	4		R35,R37,R38,R39
27	27		1316395-02	R NETWORK 9-1.0K 2.0 % 10PIN	1	1		E11
28	28		1312929-00	62.0 .25 W 5.0 % CC	3	3		R24,R25,R33
29	29		1316395-00	R NETWORK 9-4.7K 2.0 % 10PIN	1	1		E42
30	30		1617533-00	DELAY= 250NS,STAPS 14PIN DIP	1	1		E108

REVISION HISTORY		BASIC PART NO: M7161		DRN:	R. MICHAUD	DATE:	11-NOV-80	D I G I T A L		
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	C. RIDGEWAY	DATE:	11-NOV-80	TITLE	PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX							
CR	M7161-CX001	B	[A] 00, YA					UDA #1		
CR	M7161-CX002	C	[B]							
CR	M7161-CX002	C	[C]	DES.ENG:	C. RIDGEWAY	DATE:	11-NOV-80			
CR	M7161-CX002	C	[D]							
CR	M7161-CX002	C	[E]							DOCUMENT NUMBER
CR	M7161-CX004	D	[F]	RESP.ENG.:	B. MATHRANI	DATE:	11-NOV-80			
			[G]					SIZE	CODE	NUMBER
			[H]							REV
			[I]	MFG.ENG.:	D. SWIFT	DATE:	11-NOV-80	K	PL	M7161-0-DBP
			[J]							D
			[K]							
			[L]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
			[M]	D-UA-M7161-0-0		# B-DD-M7161-0		Z1748D.PLS		16
			[N]							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
31	31		1618344-00	DELAY= 58NS,STAPS	1	1		E91
32	32		1811660-16	OSCILLATOR, XTAL 17.280 MHZ	1	1		Y1
33	33		1907705-00	DEC 8881 NAND GATE-QUAD 2IN 0	1	1		E84
34	34		1910532-00	74S00 NAND GATE-QUAD 2IN	2	2		E33,E47
35	35		1910534-00	74S04 INVERTER GATE-HEX 1I	2	2		E80,E92
36	36		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	1		E90
37	37		1910537-00	74S11 AND GATE-TRIPLE 3INP	1	1		E46
38	38		1910542-00	74S64 A-0-I GATE 4-2-3-2	2	2		E44,E89
39	39		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1	1		E51
40	40		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1	1		E120
41	41		1910546-00	74S140 NAND GATE-DUAL 4INPU	1	1		E50
42	42		1910548-00	74S157 MUX 1 OF 2 (QUAD)	5	5		E35,E68,E69,E70,E71
43	43		1910550-00	74S174 FF-D HEX	6	6		E7,E8,E21,E22,E24,E25
44	44		1910552-00	74S194 SHIFT REG.,4BIT RIGH	2	2		E54,E62
45	45		1910950-00	74S74 FF-D DUAL (-45 VERSI	1	1		E40
46	46		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	1	1		E64
47	47		1911579-00	8641 TRANSCEIVER,BUS,QUA	1	1		E83
48	48		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	3	3		E73,E82,E93
49	49		1911676-00	74S139 DECODER-DUAL TWO-INP	2	2		E43,E91
50	50		1911712-00	74S51 AND-OR GATE-INVERT D	1	1		E49
51	51		1911983-00	74S133 NAND GATE-POSITIVE 1	1	1		E28
52	52		1912097-00	SN 74S182 LOOK AND CARRY GEN	1	1		E45
53	53		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	2	2		E67,E126
54	54		1912389-00	74S08 AND GATE-QUAD 2IN,PO	2	2		E48,E36
55	55		1912728-00	74S251 MUX 1 OF 8 TRI-STA	4	4		E72,E77,E78,E79
56	56		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1		E98
57	57		1912803-00	LS04 INVERTER GATE,HEX	2	2		E85,E109
58	58		1912808-00	LS11 AND GATE-TRIPLE 3IN	1	1		E65
59	59		1912820-00	LS51 A-0-I GATE 2-WIDE 2I	1	1		E99
60	60		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1		E125
61	61		1912842-00	LS138 DECODER-THREE INPUT,	1	1		E75
62	62		1912860-00	LS259 LATCH 8BIT	1	1		E66
63	63		1912863-00	LS273 FF-D OCTAL W/CLEAR	3	3		E20,E41,E104
64	64		1912864-00	LS279 LATCH,QUAD-S-R	1	1		E76
65	65		1913040-00	DC 005 TRANSCEIVER 4BIT	4	4		E94,E95,E106,E107
66	66		1913245-02	2901A-1 MICROPROCESSOR 4-	4	4		E55,E56,E57,E58
67	67		1913414-00	LS14 INVERTER GATE-HEX SC	1	1		E87
68	68		1913939-00	LS191 COUNTER,SYNCHR. UP/D	2	2		E112,E122
69	69		1914214-00	LS374 FF-D OCTAL EDGE TRIG	6	6		E23,E26,E27,E113,E114,E123
70	70		1914438-00	DC 013 UNIBUS INTERRUPT-BIP	2	2		E116,E117
71	71		1914451-00	74LS393 COUNTER,BINARY,4BIT	3	3		E111,E127,E128
72	72		1915193-00	LS244 DRIVER,LINE,OCTAL,T	2	2		E59,E63
73	73		1915218-00	LS245 TRANSCEIVER,BUS,OCT	2	2		E105,E115
74	74		1915305-00	AM 2908 TRANSCEIVER,BUS,LATCH	4	4		E52,E53,E60,E61
75	75		1916680-01	2911A MICROPROGRAM SEQUENC	6	6		E9,E10,E18,E19,E29,E30
76	76		1917956-00	74LS280N PARITY GEN/CHK,9BIT	6	6		E31,E32,E34,E36,E37,E38
77	77		23301E2-00	E2-06	1	1		E100
78	78		23302E2-00	E2-06	1	1		E102

D	I	S	I	T	A	I	L	TITLE	UDA #1	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV	
													K	PL	M7161-0-DBP	B

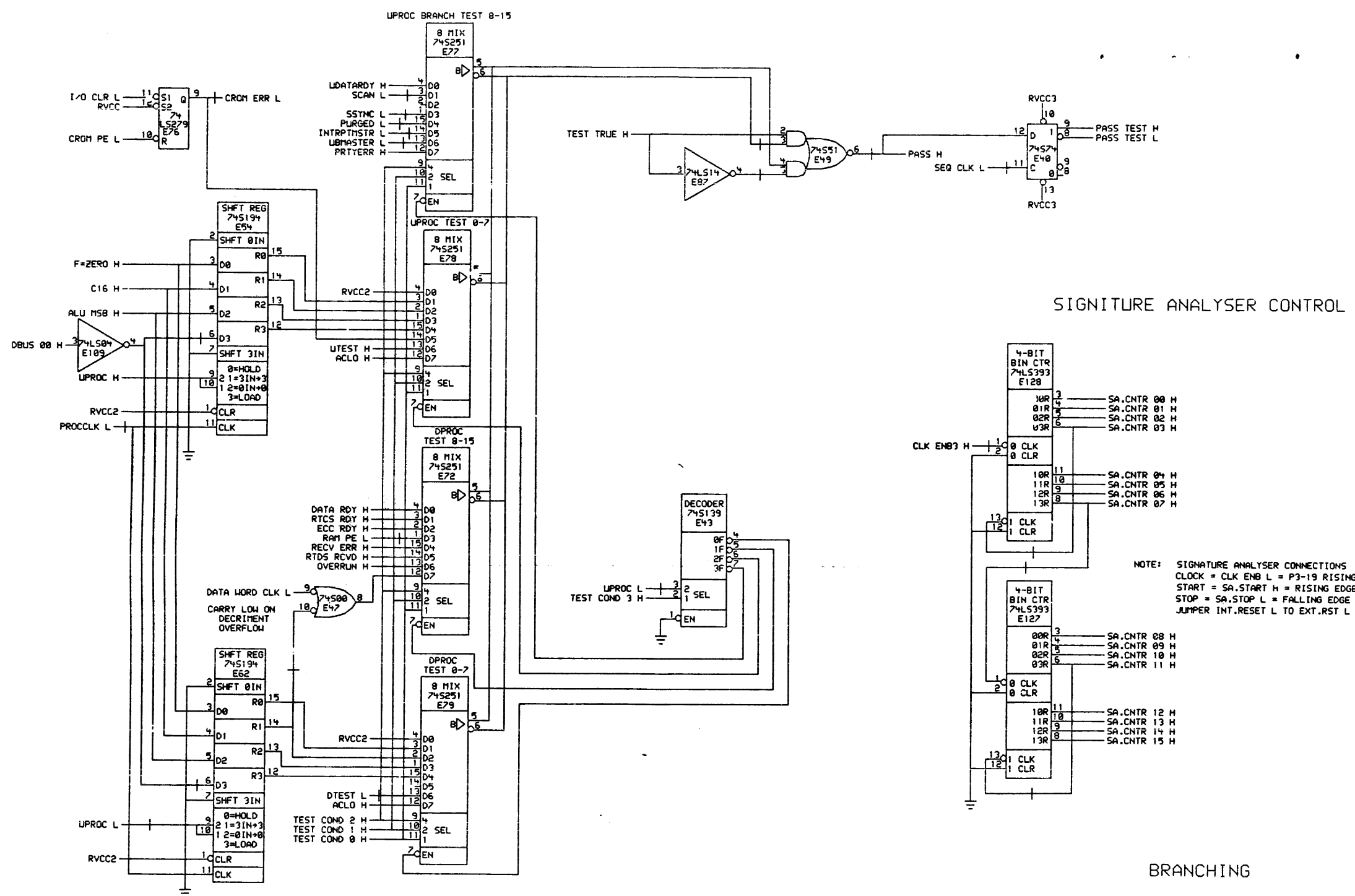
AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A3 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER 00 YA	VARIATION	REFERENCE DESIGNATOR
79	79	4901259-00	ADHESIVE,ETHYL CYANOACRYLATE,KIT	A/R	A/R	
80	80	5408778-00	REPLACED BY 13-18784-01	1	1	E74
81	81	9000024-01	EYELET,ROLLED 0.1210DX0.192	11	11	
82	82	9009157-00	ADH,LIQ.RM.TEMP CURING COLORLESS	A/R	A/R	
83	83	9105740-55	WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R	
84	84	23064F4-00	F4-01	-	1	E17
85	85	23065F4-00	F4-01	-	1	E16
86	86	23066F4-00	F4-01	-	1	E15
87	87	23067F4-00	F4-01	-	1	E14
88	88	23068F4-00	F4-01	-	1	E13
89	89	23069F4-00	F4-01	-	1	E12
90	90	23070F4-00	F4-01	-	1	E6
91	91	23071F4-00	F4-01	-	1	E5
92	92	23072F4-00	F4-01	-	1	E4
93	93	23073F4-00	F4-01	-	1	E3
94	94	23074F4-00	F4-01	-	1	E2
95	95	23075F4-00	F4-01	-	1	E1
96	96	1912850-00	LS164 SHIFT REG. 8BIT SERI	1	1	E124
97	97	1215899-00	JUMPER 02POS CLIP TIN .02 -.	1	1	W14
98	98	9009149-01	PIN,STAKING 0.235 HX0.345LG SQUA	4	4	TP21-TP24

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA #1		K	PL	M7161-0-DBP	D



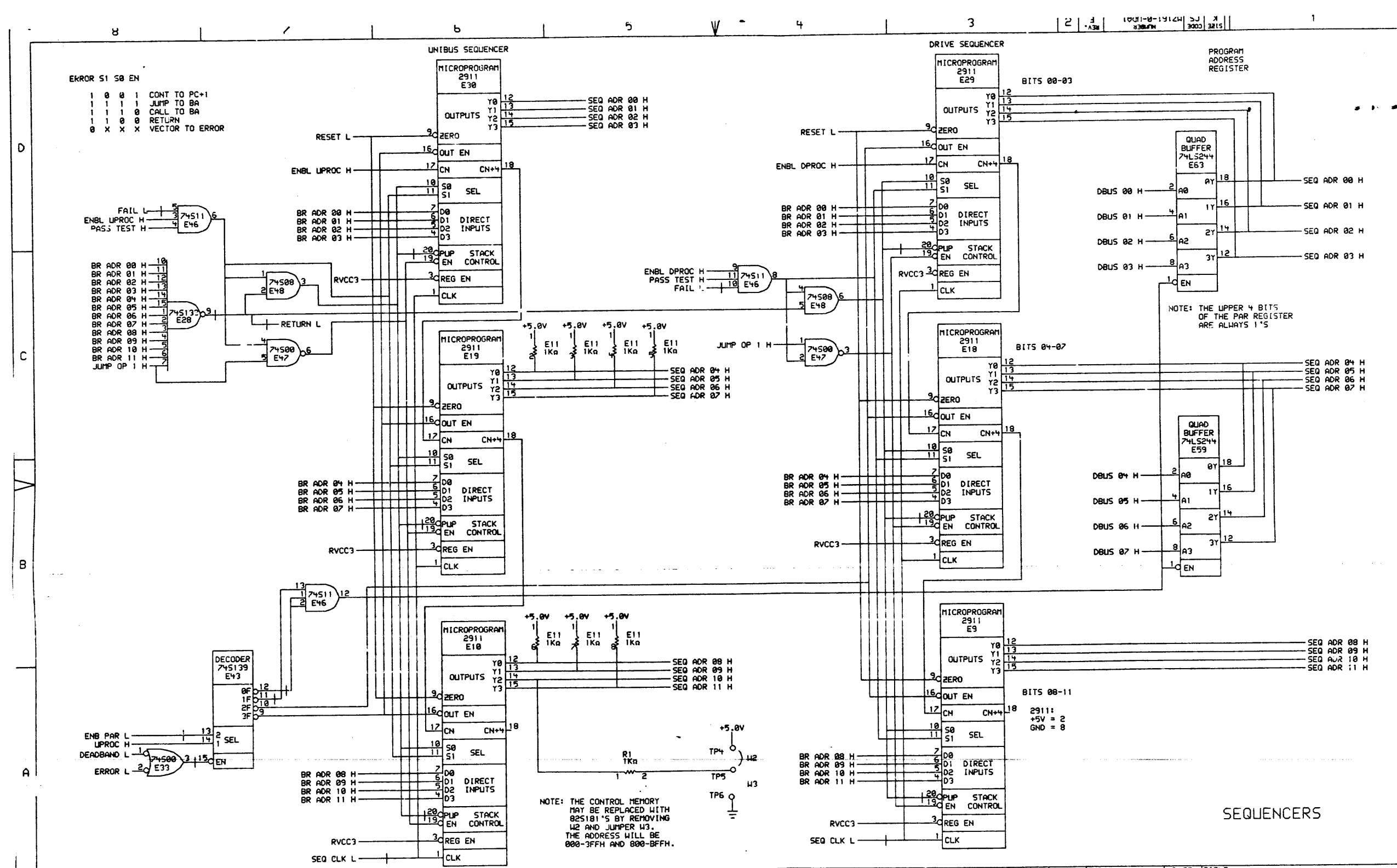
SIGNATURE ANALYSER CONTROL

NOTE: SIGNATURE ANALYSER CONNECTIONS
 CLOCK = CLK ENB L = P3-19 RISING EDGE
 START = SA.START H = RISING EDGE
 STOP = SA.STOP L = FALLING EDGE
 JUMPER INT.RESET L TO EXT.RST L

BRANCHING

REV. NO.	DATE	BY	CHK	CHANGE NO.	REV

DRN.	DATE	ENG.	DATE	TITLE
CHK'D.	DATE	BOARD LOCATION:	SHEET 3 OF 15	UDA # 1
PS: DOUGHERTY, DATE 3, DRW 19-JUL-82 15128	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: UDA	B-DD-M2161-0	K CS M2161-0-UDA1	E	



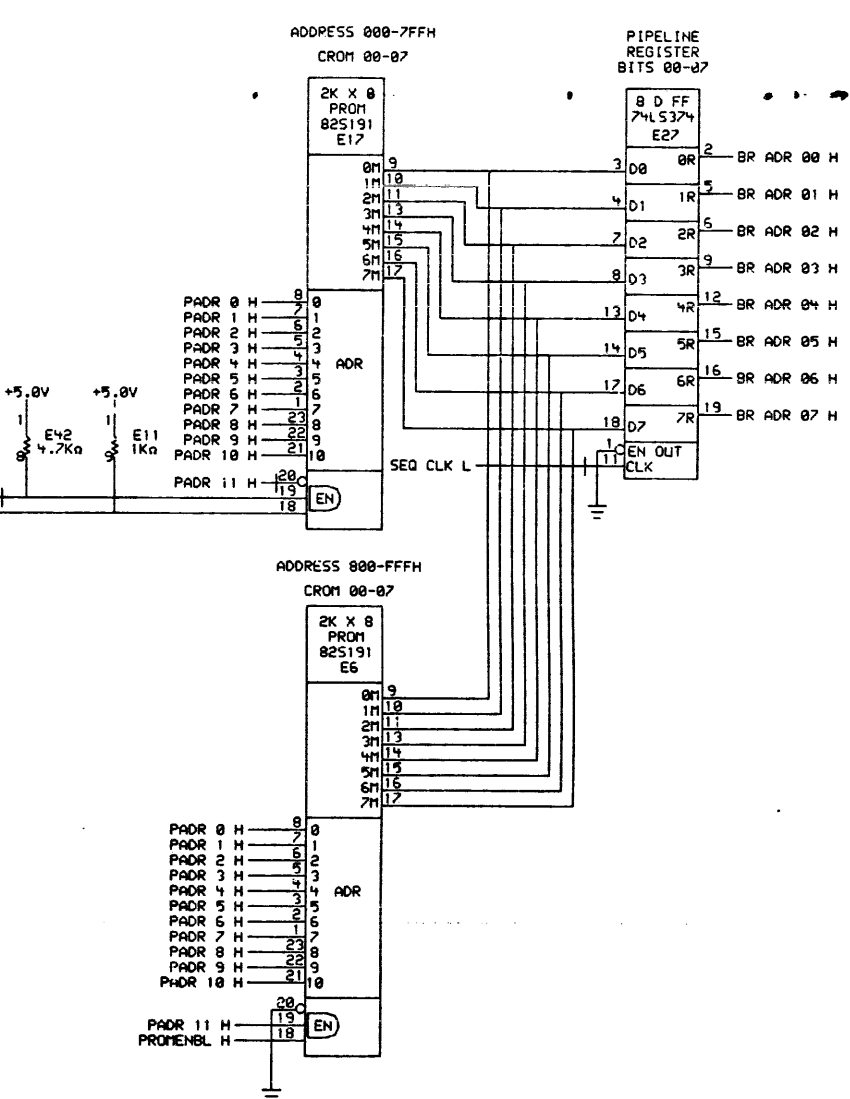
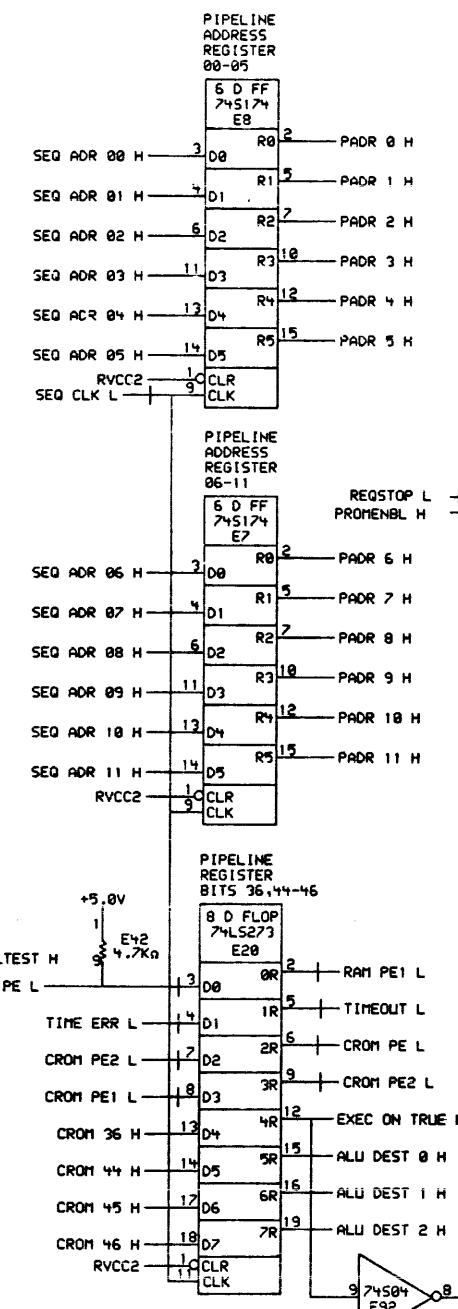
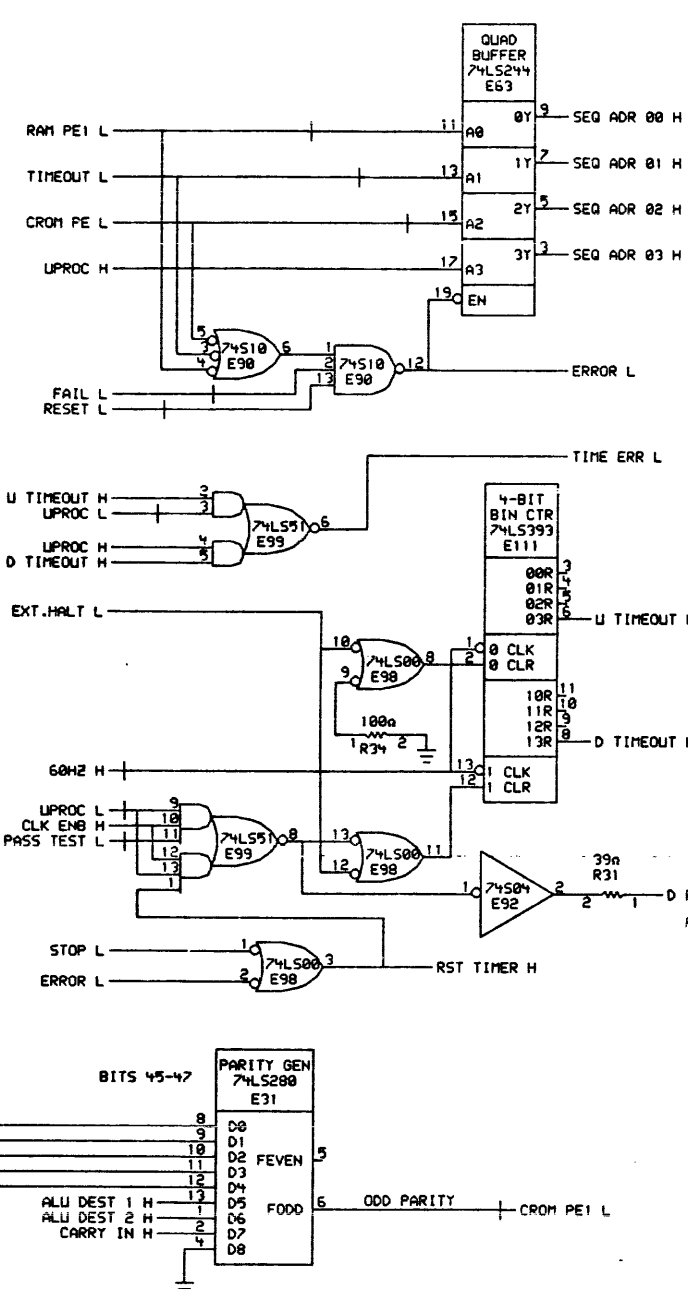
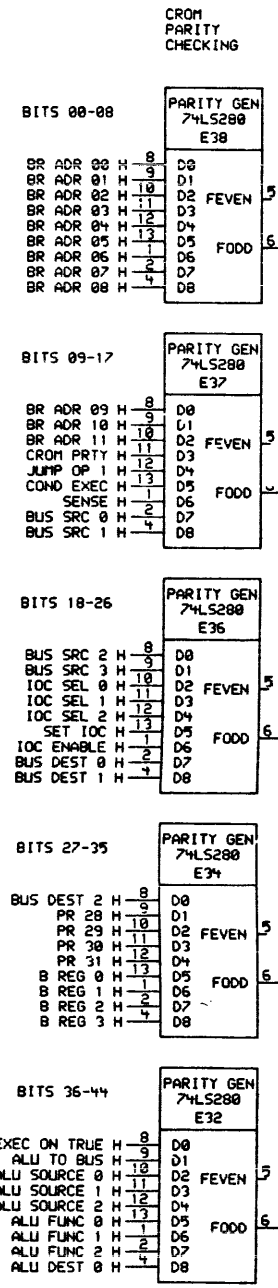
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REV.	DATE	BY	CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET	OF
PS: DOUGHERTY/UDA15.DRW 20-JUL-82 10:38 NEXT HIGHER ASSEMBLY:					SIZE CODE
FIRST USED ON OPTION/MODEL: UDA B-DD-M7161-0					NUMBER
					REV.
					E

UDA # 1

K CS M7161-0-UDA1



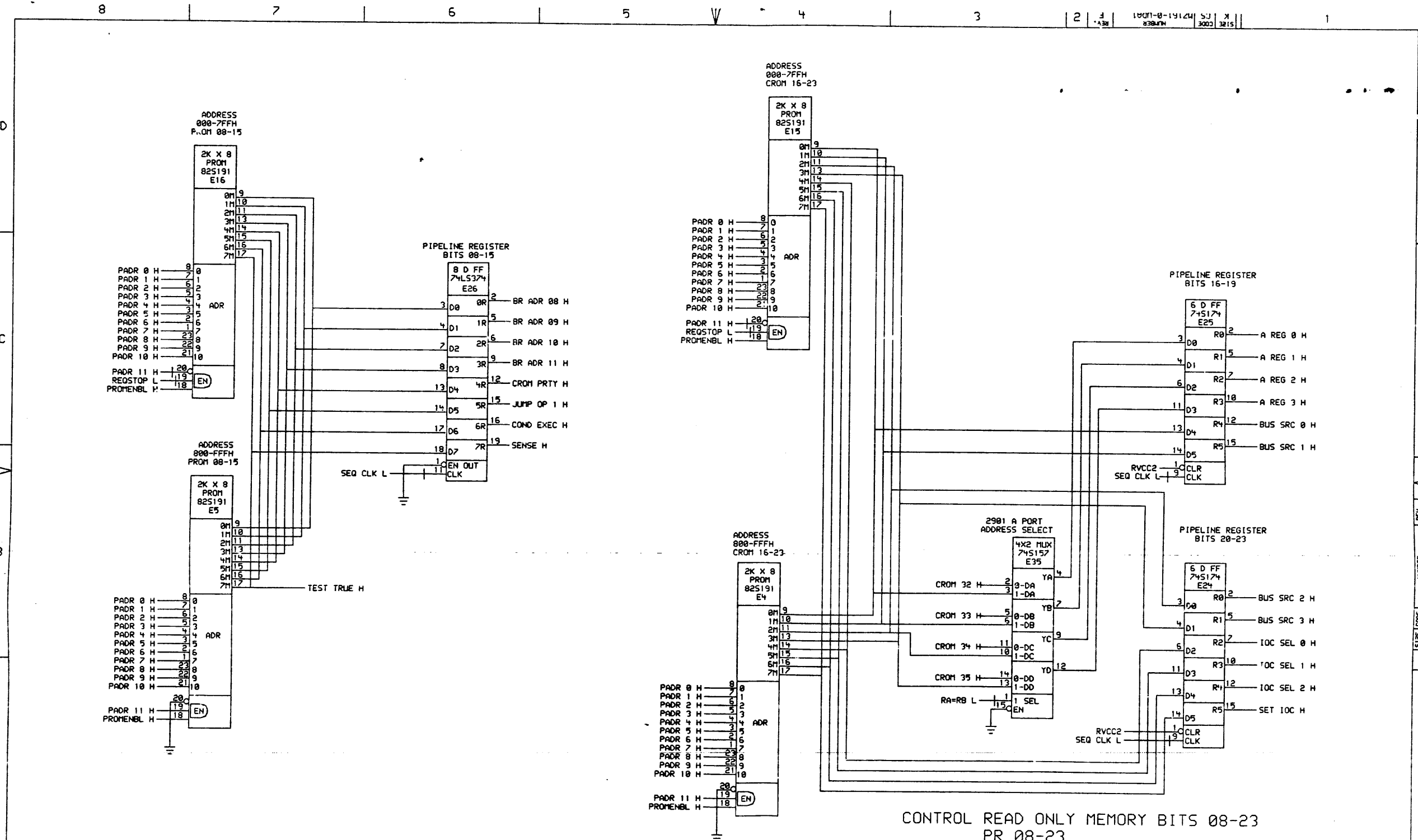
NOTE: AN ERROR WILL ALLOW THE INSTRUCTION WITH THE ERROR TO COMPLETE, THE NEXT ONE, THEN VECTOR TO THE ERROR ROUTINE.

CONTROL READ ONLY MEMORY BITS 00,07
 PARITY AND PAR,PR 00-07,36,44-46

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REVISIONS	CHK	CHANGE NO.	REV

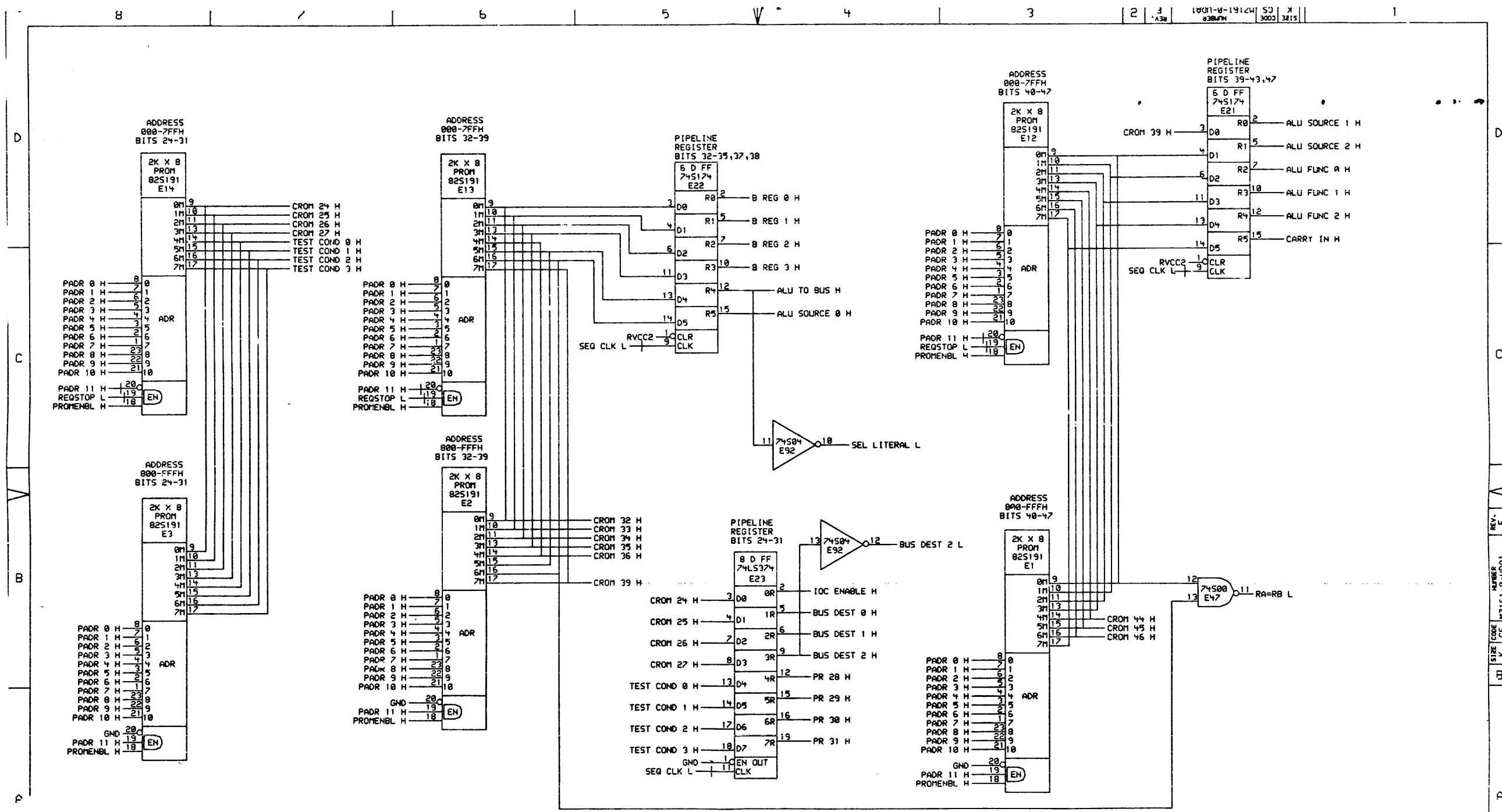
digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET	OF 15
PS: DOUGHERTY/UDATES.DRW/20-JUL-82 10:49		NEXT HIGHER ASSEMBLY:		SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: UDA		R-DD-M7161-0		K ICS	M7161-0-UDA1
UDA # 1					REV. E



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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET	OF
PS: DOUGHERTY/UDATES.DRW/19-JUL-82 16:44		NEXT HIGHER ASSEMBLY:		UDA # 1	
FIRST USED ON OPTION/MODEL: UDA		B-DD-M7161-0		SIZE CODE	NUMBER
				K CS	M7161-0-UDA1
					REV. E



CONTROL READ ONLY MEMORY BITS 24-47
PR 32-35, 37-43, 47

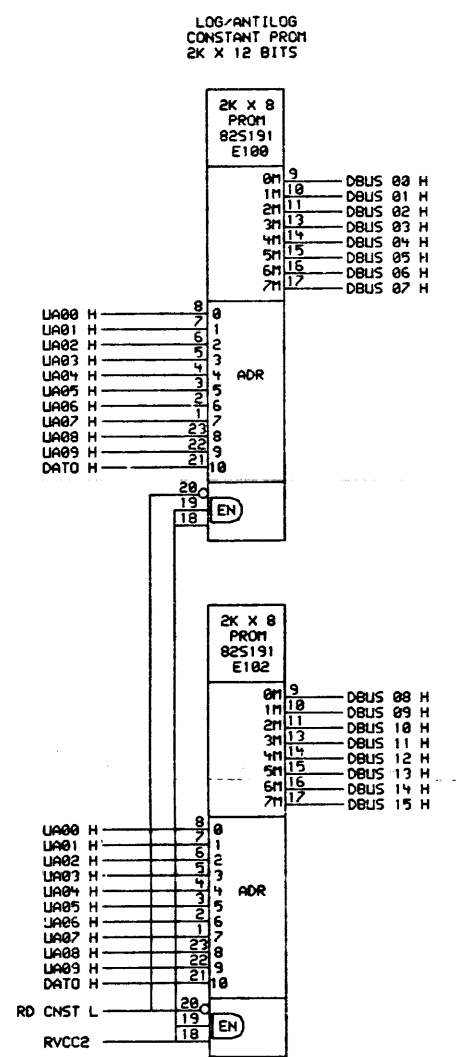
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REV.	CHG	CHANGE NO.	REV.

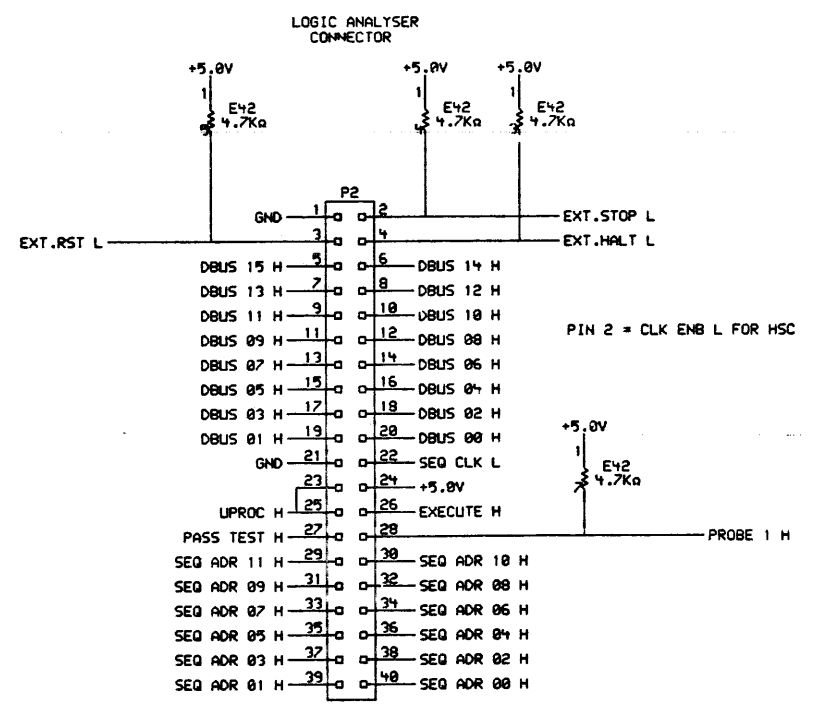
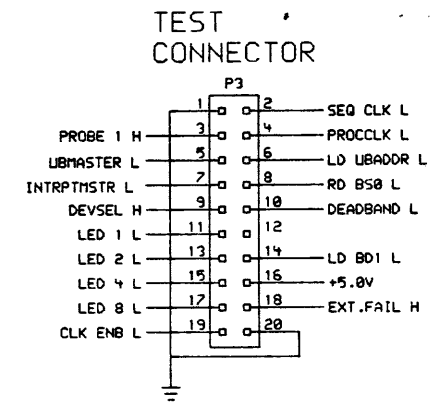
DATE	ENG.	DATE	TITLE:
28-JUL-82			UDA # 1

PS: <DOUGHERTY> UDA17.DRW 19-JUL-82 16:52 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION MODEL: UDA B-DD-M7161-0

SIZE	CODE	NUMBER	REV.
K	CS	M7161-0-UDA1	E



NOTE: BITS 12-15 OF THE PROM MUST BE ZERO FOR SOFTWARE EFFICIENCY.



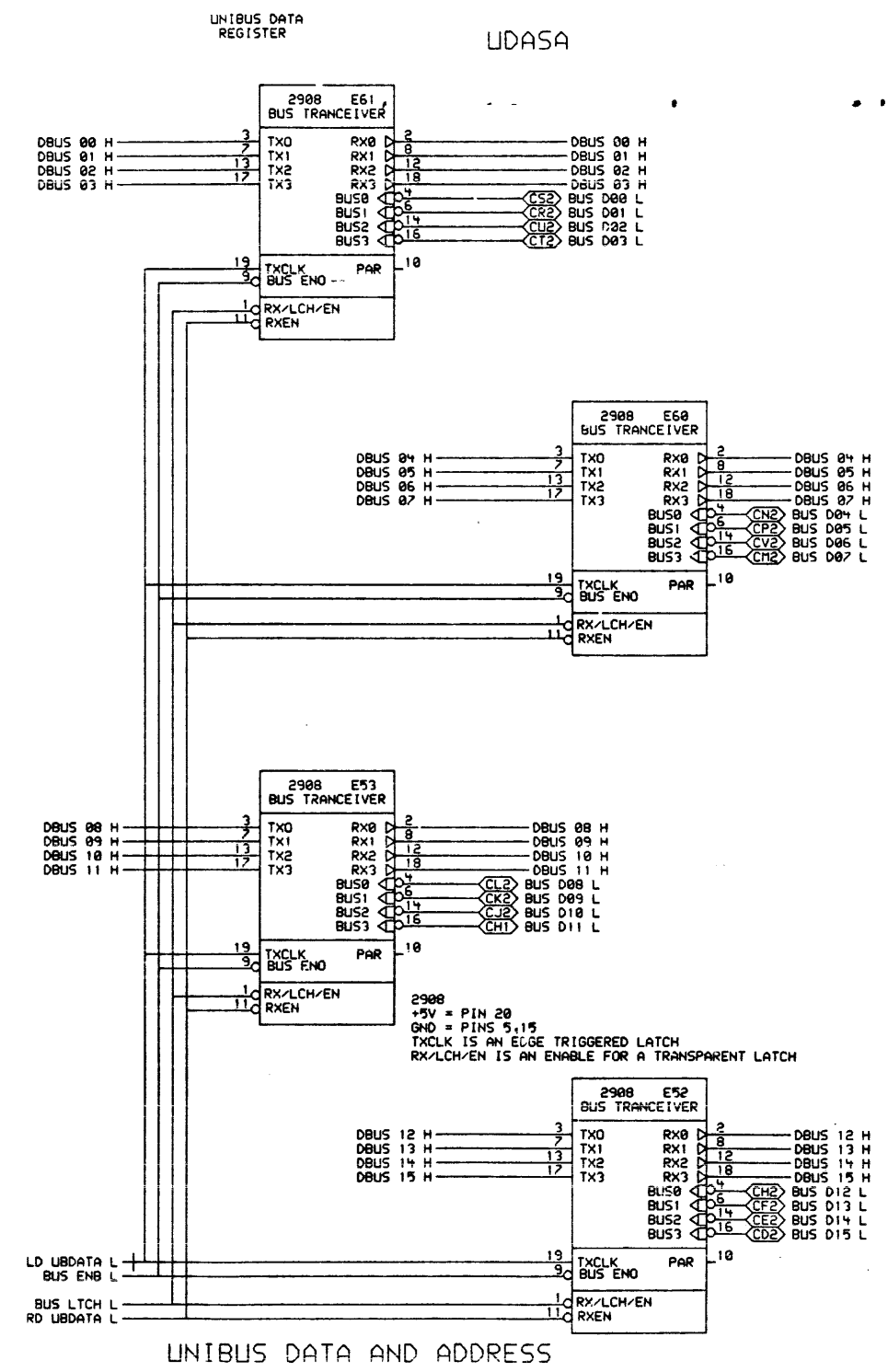
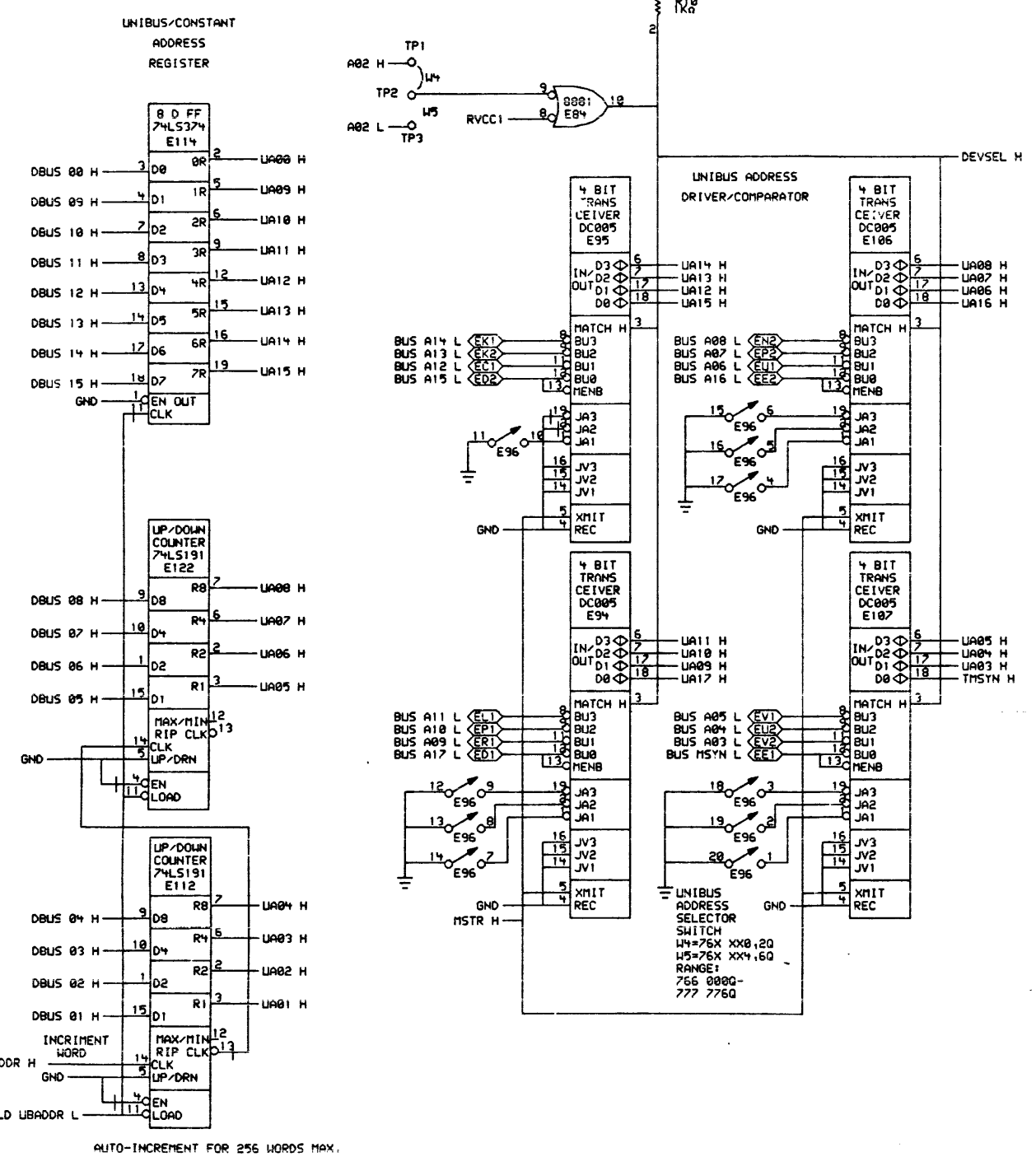
LOG/ALG PROM AND CONNECTORS

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REVISIONS	CHK	CHANGE NO.	REV.

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET 8 OF 15	LDA # 1
PS: DOUGHERTY\UDA18.DRW\20-JUL-82 13:41		NEXT HIGHER ASSEMBLY:		SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: LDA		B-DD-M7161-0		K CS	M7161-0-UDA1
					REV. E

NOTE: UNIBUS INTERFACE 5-14 PIN, 12-16 PIN, 10-30PIN.



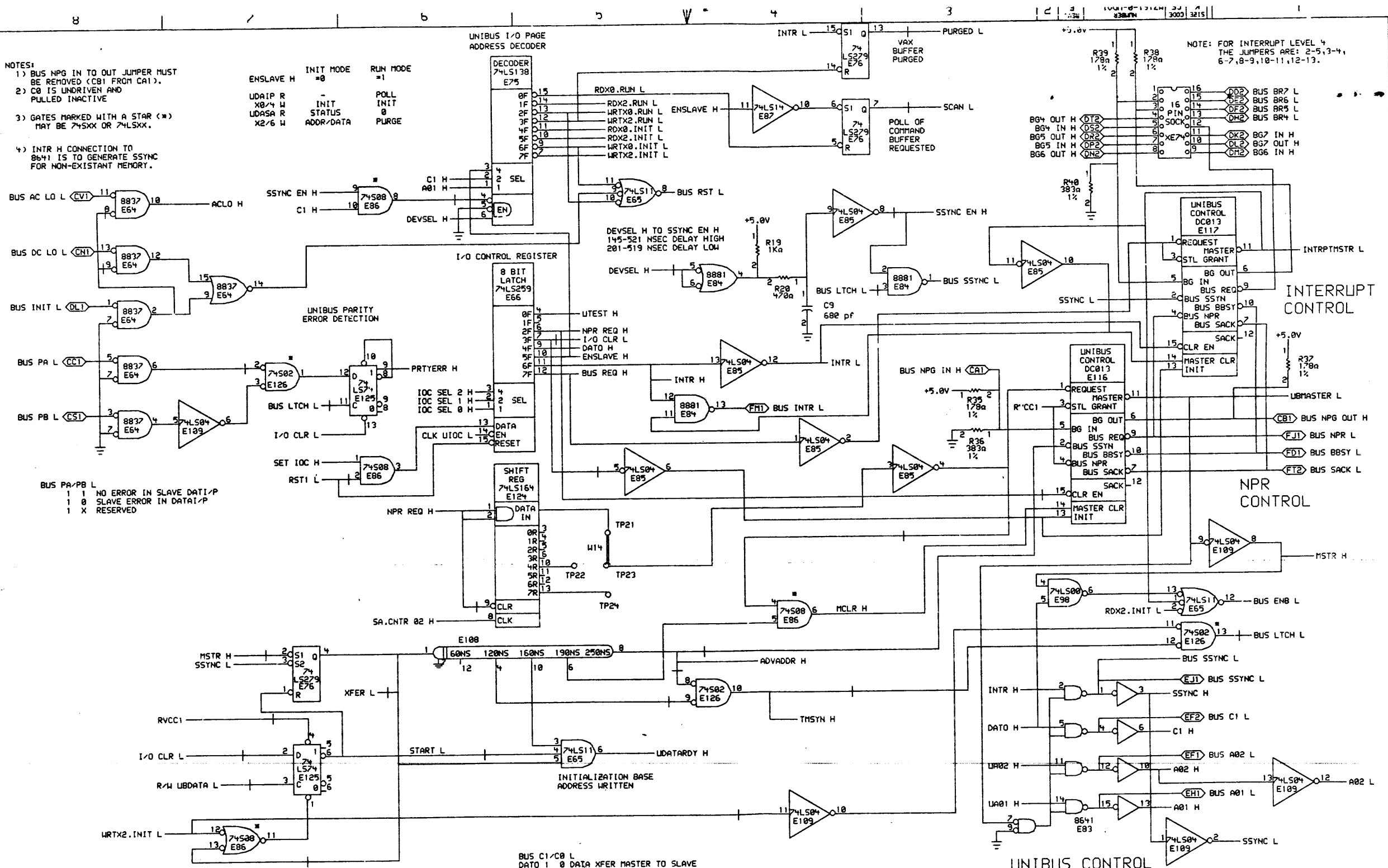
REVISIONS

CHK	CHANGE NO.	REV

AUTO-INCREMENT FOR 256 WORDS MAX.

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DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	20-JUL-82			UDA # 1
PS: DOUGHERTY, UDAS9.DRAW120-JUL-82 12:53	BOARD LOCATION:	SHEET	OF	15
FIRST USED ON OPTION/MODEL: UDA	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
	B-00-M7161-0	K CS	M7161-0-UDA1	E



NOTES:
 1) BUS NPG IN TO OUT JUMPER MUST BE REMOVED (C01 FROM C01).
 2) C0 IS UNDRIVEN AND PULLED INACTIVE.
 3) GATES MARKED WITH A STAR (*) MAY BE 74SXX OR 74LSXX.
 4) INTR H CONNECTION TO 8641 IS TO GENERATE SSYNC FOR NON-EXISTANT MEMORY.

ENSLAVE H	INIT MODE = 0	RUN MODE = 1
UDARP R	-	POLL INIT
X0/4 W	INIT STATUS	0
UDASA R	ADDR/DATA	PURGE
X2/6 H		

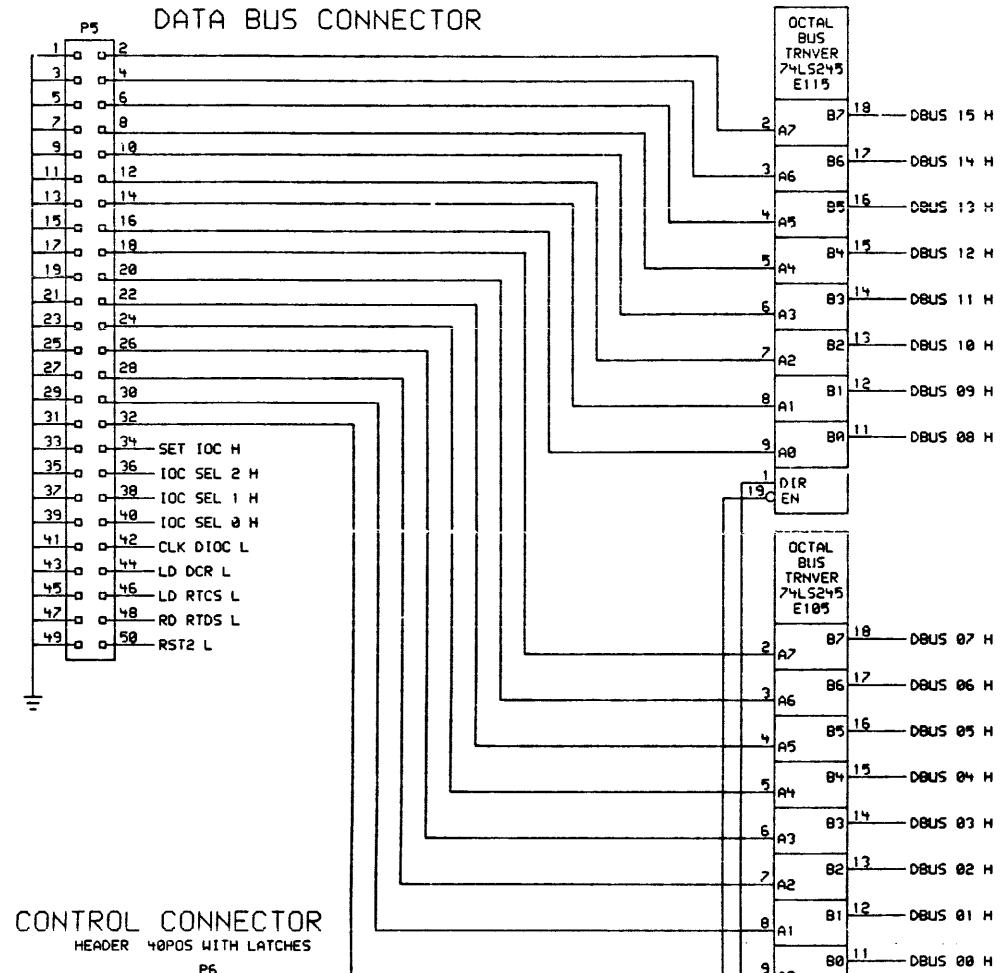
BUS PA/PB L
 1 1 NO ERROR IN SLAVE DATA/P
 1 0 SLAVE ERROR IN DATA/P
 1 X RESERVED

BUS C1/C0 L
 DATO 1 0 DATA XFER MASTER TO SLAVE
 DATI 1 1 DATA XFER SLAVE TO MASTER

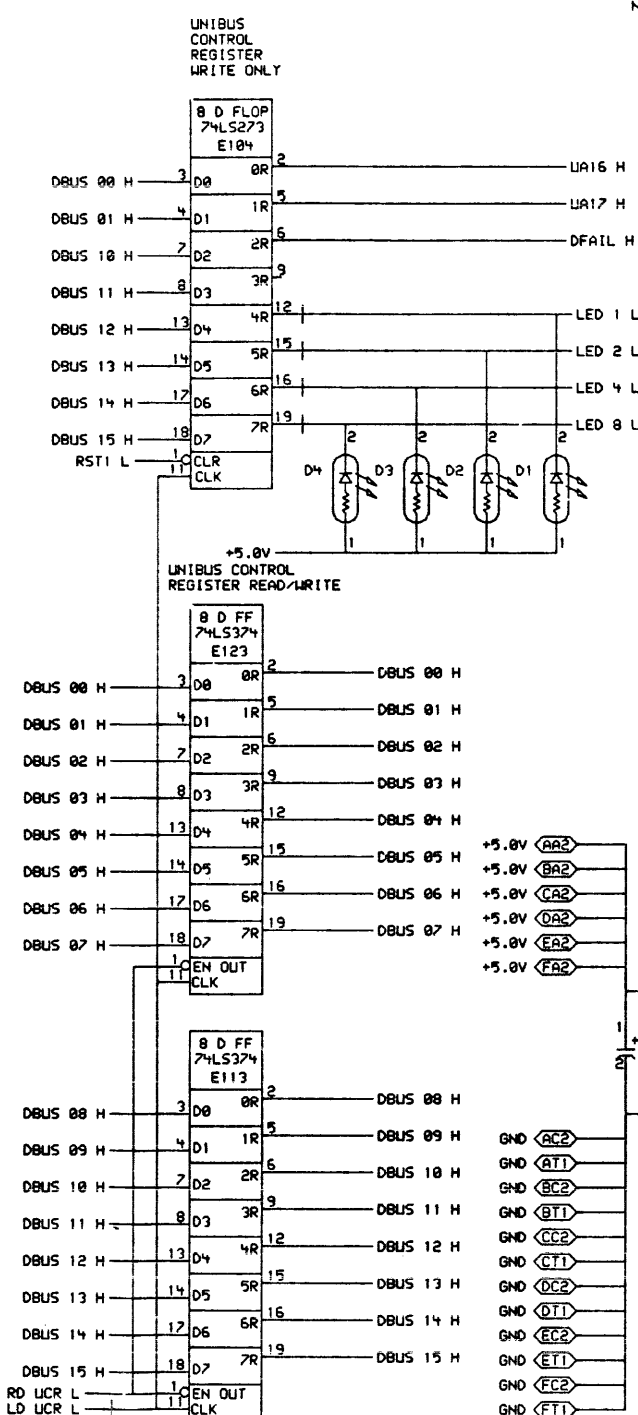
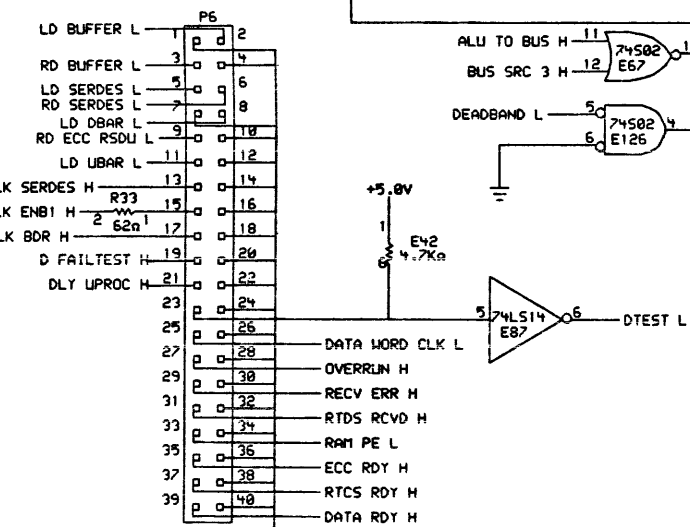
REV.	CHG	CHANGE NO.	REV.

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	29-JUL-82			
		BOARD LOCATION:		UDA # 1
		SHEET 10 OF 15		
PS: DOUGHERTY\UDA1EA.DRW\20-JUL-82 18:56	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
FIRST USED ON OPTION MODEL: UDA	B-DD-M7161-0	K CS	M7161-0-UDA1	E

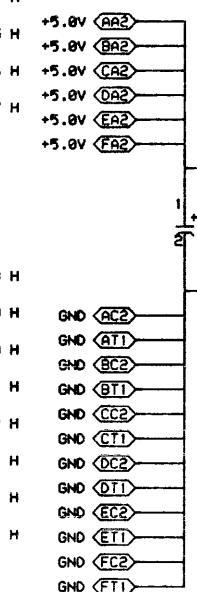
DATA BUS CONNECTOR



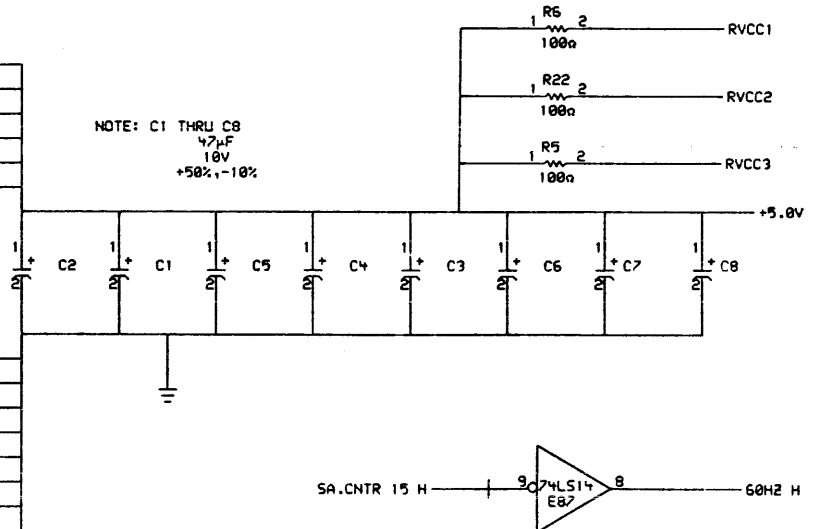
CONTROL CONNECTOR
HEADER 40POS WITH LATCHES



NOTE: DBUS 00 H MUST BE PULLED UP
THE OTHER PULLUPS ARE OPTIONAL.



NOTE: C1 THRU C8
47µF
18V
+50%,-10%

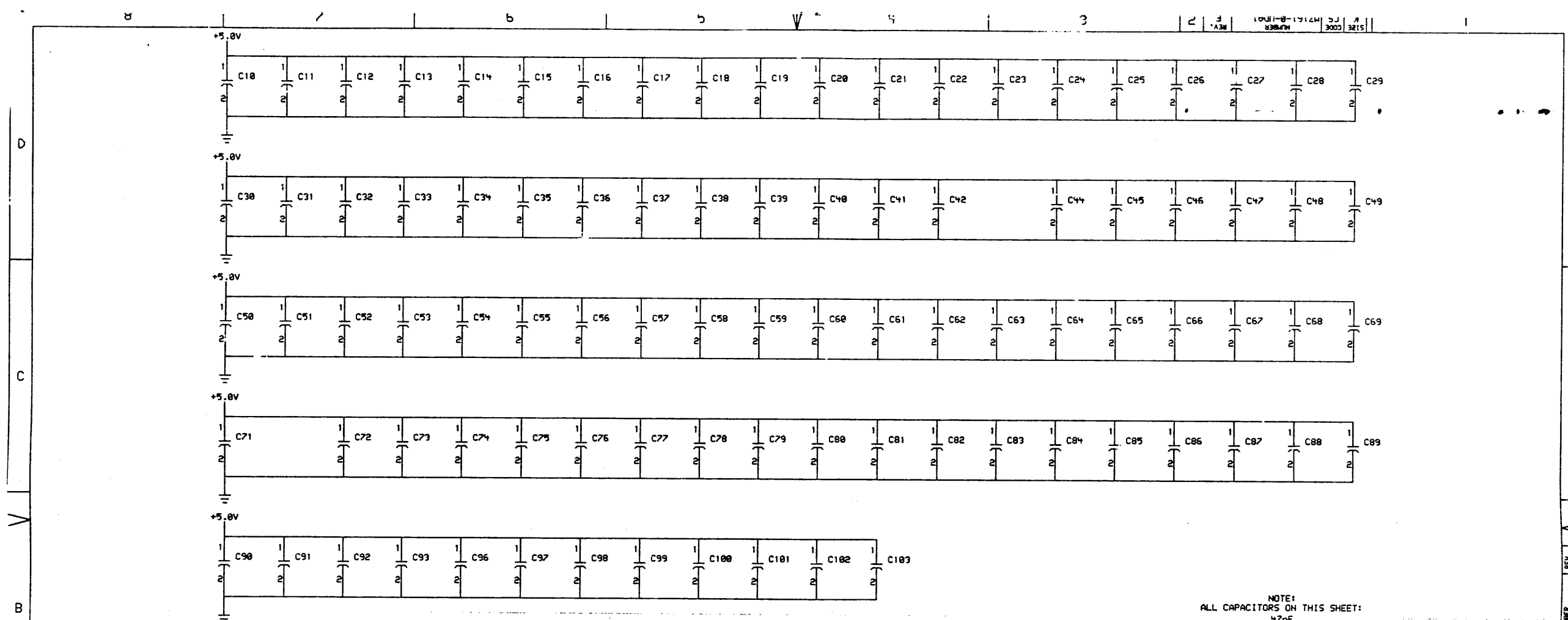


LDA2 CONNECTORS AND CR REG

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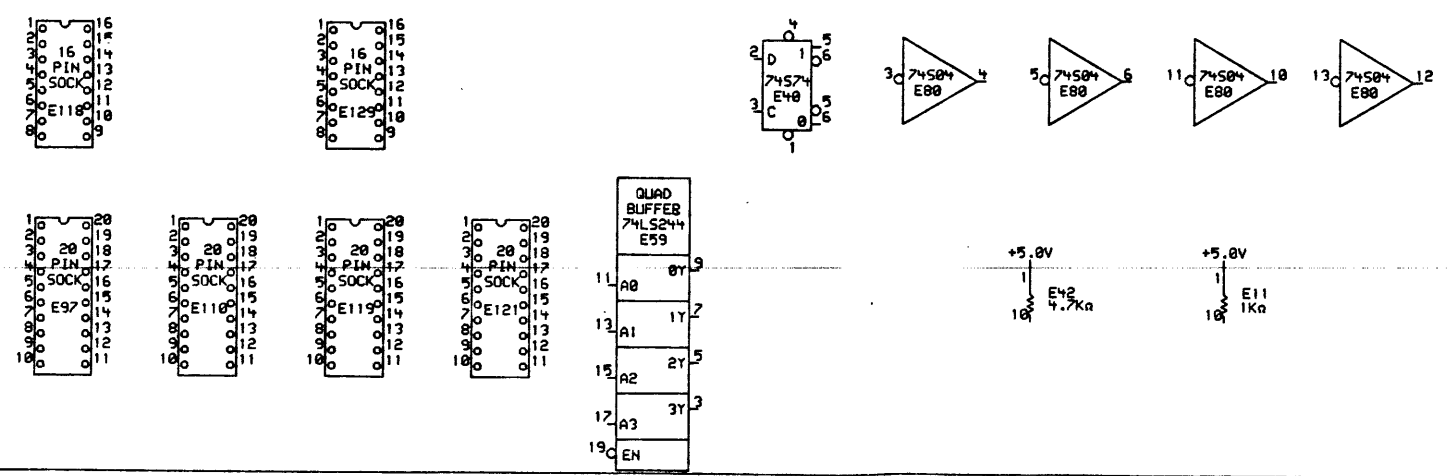
REV.	CHANGE NO.	REV.

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	28-12-82			LDA # 1
PS: DOUGHERTY \XDATA\B.DRU\20-JUL-82 13:43 NEXT HIGHER ASSEMBLY:					
FIRST USED ON OPTION/MODEL: LDA B-DD-M7161-0					
SIZE CODE	NUMBER	REV.			
K CS M7161-0-LDA1		E			



NOTE:
 ALL CAPACITORS ON THIS SHEET:
 47nF
 50V
 +80%,-20%

SPARES



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REVISIONS		
CHK	CHANGE NO.	REV

digital DRN. CHK'D. PS: DOUGHERTY/JDA/EC, DRW: 20-JUL-82 13:44 FIRST USED ON OPTION/MODEL: UDA	DATE ENG. 28-JUL-82	DATE 28-JUL-82	TITLE: BOARD LOCATION:
	SHEET 12 OF 15	NEXT HIGHER ASSEMBLY: B-DD-M7161-0	UDA # 1
SIZE CODE K CS M7161-0-UDA1	NUMBER M7161-0-UDA1	REV. E	

REV. E
 NUMBER M7161-0-UDA1
 SIZE CODE K CS

Vertical location (A-D) Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)

Schematic Sheet Horizontal location (1-8)

+5.0V	1-D5,D	2-C1,D	4-A4,D	4-B5,D	4-B5,D	4-B6,D	
	4-C5,D	4-C5,D	4-C5,D	4-C6,D	5-B4,D	5-C3,D	8-B3,D
	8-B3,L	8-C2,L	8-C3,D	8-C3,D	8-C4,D	9-D5,D	10-C1,D
	10-D2,R	10-D4,D	11-A7,D	11-B1,L	11-C4,R	11-D2,D	12-A3,D
	12-B7,D	12-C7,D	12-C7,D	12-D7,D	11-B3,R	<AA2>	
	11-B3,R	<BA2>	11-B3,R	<CA2>	11-B3,R	<DA2>	11-B3,R
		11-B3,R	<FA2>				
50HZ H	5-B7,R	11-A1,L					
A REG 0 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	6-C1,L		
A REG 1 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	6-C1,L		
A REG 2 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	6-C1,L		
A REG 3 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	6-C1,L		
A01 H	10-A2,L	10-D6,R					
A02 H	9-D6,R	10-A2,L					
A02 L	9-D6,R	10-A1,L					
ACLO H	1-A6,R	3-C6,R	10-D7,L				
ADVADDR H	9-A8,R	10-B4,L					
ALU DEST 0 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A4,L	5-A8,R	
ALU DEST 1 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A4,L	5-A7,R	
ALU DEST 2 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A4,L	5-A7,R	
ALU FUNC 0 H	1-B2,R	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A8,R	
	7-D2,L						
ALU FUNC 1 H	1-B2,R	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A8,R	
	7-D2,L						
ALU FUNC 2 H	1-B2,R	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A8,R	
	7-D2,L						
ALU MSB H	1-D7,L	3-C7,R					
ALU SOURCE 0 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A8,R	7-C4,L	
ALU SOURCE 1 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A8,R	7-D2,L	
ALU SOURCE 2 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-A8,R	7-D2,L	
ALU TO BUS H	1-D8,R	2-C3,R	5-A8,R	7-C4,L	11-B7,R		
B REG 0 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-B8,R	7-D5,L	
B REG 1 H	1-B3,R	1-B6,R	1-C4,R	1-C8,R	5-B8,R	7-D5,L	
B REG 2 H	1-B3,R	1-B4,R	1-B6,R	1-B8,R	5-B8,R	7-D5,L	
B REG 3 H	1-B3,R	1-B4,R	1-B6,R	1-B8,R	5-B8,R	7-C5,L	
BG4 IN H	10-D2,R	<DS2>					
BG4 OUT H	10-D2,R	<DT2>					
BG5 IN H	10-D2,R	<DP2>					
BG5 OUT H	10-D2,R	<DR2>					
BG6 IN H	10-D1,L	<DM2>					
BG6 OUT H	10-D2,R	<DN2>					
BG7 IN H	10-D1,L	<DK2>					
BG7 OUT H	10-D1,L	<DL2>					
BR ADR 00 H	4-C8,R	4-D4,R	4-D7,R	5-D1,L	5-D8,R		
BR ADR 01 H	4-C8,R	4-D4,R	4-D7,R	5-D1,L	5-D8,R		
BR ADR 02 H	4-C8,R	4-D4,R	4-D7,R	5-D1,L	5-D8,R		
BR ADR 03 H	4-C8,R	4-D4,R	4-D7,R	5-D1,L	5-D8,R		
BR ADR 04 H	4-B4,R	4-B7,R	4-C8,R	5-D1,L	5-D8,R		
BR ADR 05 H	4-B4,R	4-B7,R	4-C8,R	5-D1,L	5-D8,R		
BR ADR 06 H	4-B4,R	4-B7,R	4-C8,R	5-C1,L	5-D8,R		
BR ADR 07 H	4-B4,R	4-B7,R	4-C8,R	5-C1,L	5-D8,R		
BR ADR 08 H	4-A4,R	4-A7,R	4-C8,R	5-D8,R	6-C6,L		
BR ADR 09 H	4-A4,R	4-A7,R	4-C8,R	5-C8,R	6-C6,L		
BR ADR 10 H	4-A4,R	4-A7,R	4-C8,R	5-C8,R	6-C6,L		
BR ADR 11 H	4-A4,R	4-A7,R	4-C8,R	5-C8,R	6-C6,L		

BUS A01 L	10-A2,L	<EH1>
BUS A02 L	10-A2,L	<EF1>
BUS A03 L	9-B5,R	<EV2>
BUS A04 L	9-B5,R	<EU2>
BUS A05 L	9-B5,R	<EV1>
BUS A06 L	9-C5,R	<EU1>
BUS A07 L	9-C5,R	<EP2>
BUS A08 L	9-C5,R	<EN2>
BUS A09 L	9-B6,R	<ER1>
BUS A10 L	9-B6,R	<EP1>
BUS A11 L	9-B6,R	<EL1>
BUS A12 L	9-C6,R	<EC1>
BUS A13 L	9-C6,R	<EK2>
BUS A14 L	9-C6,R	<EK1>
BUS A15 L	9-C6,R	<ED2>
BUS A16 L	9-C5,R	<EE2>
BUS A17 L	9-B6,R	<ED1>
BUS AC LO L	10-D8,R	<CV1>
BUS BBSY L	10-B1,L	<FD1>
BUS BR4 L	10-D1,L	<DH2>
BUS BR5 L	10-D1,L	<DF2>
BUS BR6 L	10-D1,L	<DE2>
BUS BR7 L	10-D1,L	<DD2>
BUS C1 L	10-A2,L	<EF2>
BUS D00 L	9-D2,L	<CS2>
BUS D01 L	9-D2,L	<CR2>
BUS D02 L	9-D2,L	<CU2>
BUS D03 L	9-D2,L	<CT2>
BUS D04 L	9-C1,L	<CN2>
BUS D05 L	9-C1,L	<CP2>
BUS D06 L	9-C1,L	<CV2>
BUS D07 L	9-C1,L	<CM2>
BUS D08 L	9-B2,L	<CL2>
BUS D09 L	9-B2,L	<CK2>
BUS D10 L	9-B2,L	<CJ2>
BUS D11 L	9-B2,L	<CH1>
BUS D12 L	9-A1,L	<CH2>
BUS D13 L	9-A1,L	<CF2>
BUS D14 L	9-A1,L	<CE2>
BUS D15 L	9-A1,L	<CD2>
BUS DC LO L	10-C8,R	<CN1>
BUS DEST 0 H	2-C3,R	5-B8,R
BUS DEST 1 H	2-C3,R	5-B8,R
BUS DEST 2 H	2-C3,R	5-B8,R
BUS DEST 2 L	2-A3,R	7-B4,L
BUS ENB L	9-A3,R	10-B1,L
BUS INIT L	10-C8,R	<DL1>
BUS INTR L	10-C4,L	<FM1>
BUS LTCH L	9-A3,R	10-B1,L
BUS MSYN L	9-B5,R	<EE1>
BUS NPG IN H	10-C3,R	<CA1>
BUS NPG OUT H	10-C1,L	<CB1>
BUS NPR L	10-C1,L	<FJ1>
BUS PA L	10-C8,R	<CC1>
BUS PB L	10-C8,R	<CS1>
BUS REQ H	10-C5,L	
BUS RST L	2-B7,R	10-D5,L
BUS SACK L	10-B1,L	<FT2>
BUS SRC 0 H	1-A4,R	1-A7,R
BUS SRC 1 H	1-A4,R	1-A7,R
BUS SRC 2 H	1-A4,R	1-A7,R

BUS SRC 3 H	1-A4,R	1-A7,R	5-C8,R	6-B1,L	11-B7,R
BUS SSYNC L	10-B2,L	10-C3,L	10-A2,L	<EJ1>	
C1 H	10-A2,L	10-D6,R	10-D7,R		
C12 IN H	1-C1,L	1-C8,R			
C16 H	1-C7,L	3-C7,R			
C4 IN H	1-C1,L	1-C4,R			
C8 IN H	1-B6,R	1-C1,L			
CARRY IN H	1-B2,R	1-B3,R	5-A7,R	7-D2,L	
CLK BDR H	2-D4,L	11-A8,R			
CLK DIOC L	2-B3,L	11-C8,L			
CLK ENB H	2-D4,L	5-B7,R			
CLK ENB L	2-D4,L	8-C3,R			
CLK ENB1 H	2-B3,R	2-D4,L	11-A8,R		
CLK ENB2 H	2-D6,L				
CLK ENB3 H	2-D6,L	3-C3,R			
CLK ENB4 H	2-D5,L				
CLK SERDES H	2-C4,L	11-A8,R			
CLK UIOC L	2-B3,L	10-C6,R			
COND EXEC H	2-B6,R	5-C8,R	6-C6,L		
CROM 24 H	7-B5,R	7-D7,L			
CROM 25 H	7-B5,R	7-D7,L			
CROM 26 H	7-B5,R	7-D7,L			
CROM 27 H	7-B5,R	7-D7,L			
CROM 32 H	6-B3,R	7-B5,L			
CROM 33 H	6-B3,R	7-B5,L			
CROM 34 H	6-B3,R	7-B5,L			
CROM 35 H	6-A3,R	7-B5,L			
CROM 36 H	5-A4,R	7-B5,L			
CROM 39 H	7-B5,L	7-D2,R			
CROM 44 H	5-A4,R	7-B3,L			
CROM 45 H	5-A4,R	7-B3,L			
CROM 46 H	5-A4,R	7-B3,L			
CROM ERR L	3-D7,L				
CROM PE L	3-D7,R	5-B4,L	5-D7,R		
CROM PE1 L	5-A5,L	5-B4,R			
CROM PE2 L	5-B4,L	5-B4,R			
CROM PRY H	5-C8,R	6-C6,L			
D FAILTEST H	5-B5,L	11-A8,R			
D TIMEOUT H	5-B5,L	5-C7,R			
DATA RDY H	3-B6,R	11-A7,L			
DATA WORD CLK L	3-B7,R	11-A7,L			
DATO H	8-A6,R	8-C6,R	10-A3,R	10-C5,L	
DBUS 00 H	1-A4,R	1-D2,L	3-C8,R	4-D2,R	8-B3,L
	9-D7,R	11-B6,L	11-C4,L	11-C5,R	11-D3,R
	9-D7,R	11-B6,L	11-C4,L	11-C5,R	11-D3,R
DBUS 01 H	1-A4,R	1-C2,L	4-D2,R	8-B4,R	8-D6,L
	9-D2,L	9-D3,R	11-B6,L	11-C4,L	11-C5,R
DBUS 02 H	1-A4,R	1-C2,L	4-D2,R	8-B3,L	8-C6,L
	9-D2,L	9-D3,R	11-B4,L	11-B5,R	11-B6,L
DBUS 03 H	1-A4,R	1-C2,L	4-C2,R	8-B4,R	8-C6,L
	9-D2,L	9-D3,R	11-B4,L	11-B5,R	11-B6,L
DBUS 04 H	1-A5,R	1-D4,L	4-B2,R	8-B3,L	8-C6,L
	9-C1,L	9-C2,R	11-B4,L	11-B5,R	11-B6,L
DBUS 05 H	1-B5,R	1-D4,L	4-B2,R	8-B4,R	8-C6,L
	9-C1,L	9-C2,R	11-B4,L	11-B5,R	11-C6,L
DBUS 06 H	1-B5,R	1-D4,L	4-B2,R	8-B3,L	8-C6,L
	9-C1,L	9-C2,R	11-B4,L	11-B5,R	11-C6,L
DBUS 07 H	1-B5,R	1-D4,L	4-B2,R	8-B4,R	8-C6,L
	9-C1,L	9-C2,R	11-B4,L	11-B5,R	11-C6,L
DBUS 08 H	1-A7,R	1-D6,L	8-B3,L	8-B6,L	9-B2,L
	9-B7,R	11-A5,R	11-B4,L	11-C6,L	
DBUS 09 H	1-A7,R	1-D6,L	8-B4,R	8-B6,L	9-B2,L

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REVISIONS	CHK	CHANGE NO.	REV.

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	28-JUL-82			UDA # 1
DSK:UDA1E.T2P4.501	28-JUL-82	12156	NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER
FIRST USED ON OPTION/MODEL:	UDA	B-DD-M7161-0		K CS M7161-0-UDA1

REV. E
M7161-0-UDA1

	8	7	6	5	4	3	2	1
D	DBUS 10 H	9-D7,R 11-A4,L 11-A5,R 11-C6,L	LED 1 L	8-D3,R 11-D3,L	RDX0.INIT L	10-D5,L		
	DBUS 11 H	1-A7,R 1-D6,L 8-B3,L 8-B6,L 9-B2,L 9-B3,R	LED 2 L	8-D3,R 11-D3,L	RDX2.INIT L	10-B2,R 10-D5,L		
	DBUS 12 H	9-D7,R 11-A4,L 11-A5,R 11-D5,R 11-D6,L	LED 4 L	8-C3,R 11-C3,L	RDX2.RUN L	10-D5,L		
	DBUS 13 H	1-A7,R 1-D6,L 8-B4,R 8-B6,L 9-B2,L 9-B3,R	LED 8 L	8-C3,R 11-C3,L	RECV ERR H	3-B6,R 11-A7,L		
	DBUS 14 H	9-C7,R 11-A4,L 11-A5,R 11-D5,R 11-D6,L	MSTR H	9-A6,R 10-B1,L 10-B7,R	REQSTOP L	2-C8,R 5-C3,R 6-C4,R 6-C8,R 7-C3,R 7-C6,R		
	DBUS 15 H	1-A8,R 1-D7,L 8-B3,L 8-B6,L 9-A1,L 9-A2,R	NPR RFO H	10-B6,R 10-C5,L		7-C8,R		
	DEADBAND L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	OVERRUN H	3-B6,R 11-A7,L	RESET L	2-A6,L 4-D4,R 4-D7,R 5-C7,R		
	DEVSEL H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	P2 L	1-C2,R 1-C6,L	RETURN L	4-C7,L		
	DFAIL H	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 0 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RST TIMER H	5-B6,L		
	DLY UPROC H	1-B8,R 1-D7,L 8-B3,L 8-B6,L 9-A1,L 9-A2,R	PADR 1 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RST1 L	2-C6,L 2-C7,R 10-B7,R 11-C5,R		
	DTEST L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 10 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RST2 L	2-C6,L 2-C7,R 11-C8,L		
	ECC RDY H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PADR 2 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RTCS RDY H	3-B6,R 11-A7,L		
	ENA HI LTRL L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 3 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RTDS RCVD H	3-B6,R 11-A7,L		
	ENA LO LTRL L	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PADR 4 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC	3-D7,R		
	ENB PAR L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 5 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC1	1-B2,R 1-C2,R 2-C5,D 2-C6,D 2-D3,L 2-D7,R		
	ENBL DPROC H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PADR 6 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC2	9-D6,R 10-A7,R 10-C3,R 11-B1,L		
	ENBL UPROC H	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 7 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC3	3-A6,R 3-A7,R 3-C6,R 3-C7,R 5-A4,R 5-B4,R		
	ENSLAVE H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PADR 8 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R		6-A2,R 6-B2,R 7-C2,R 7-C5,R 8-A6,R 11-B1,L		
	ERROR L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 9 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R		3-D3,D 3-D3,D 4-A4,R 4-A7,R 4-B4,R 4-B7,R		
	EXEC ON FALSE H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PASS H	3-D3,L	SA.CNTR 00 H	3-C2,L		
	EXEC ON TRUE H	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PASS TEST H	2-B6,R 3-D2,L 4-C5,R 4-D8,R 8-B4,R	SA.CNTR 01 H	3-C2,L		
	EXECUTE H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PASS TEST L	2-B6,R 3-D2,L 5-B7,R	SA.CNTR 02 H	3-C2,L 10-B6,R		
	EXT.FAIL H	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PR 28 H	5-B8,R 7-B4,L	SA.CNTR 03 H	3-C2,L		
	EXT.HALT L	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PR 29 H	5-B8,R 7-A4,L	SA.CNTR 04 H	3-B2,L		
	EXT.RST L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PR 30 H	5-B8,R 7-A4,L	SA.CNTR 05 H	3-B2,L		
	EXT.STOP L	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PR 31 H	5-B8,R 7-A4,L	SA.CNTR 06 H	3-92,L		
	F=ZERO H	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PROBE 1 H	8-B2,L 8-D3,R	SA.CNTR 07 H	3-B2,L		
	FAIL L	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PROBCLK L	1-B3,R 1-B4,R 1-B6,R 1-B8,R 2-A6,R 2-B2,R	SA.CNTR 08 H	3-B2,L		
	G2 L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PROMENBL H	5-B3,R 5-C3,R 6-A5,R 6-A8,R 6-C4,R 6-C8,R	SA.CNTR 09 H	3-B2,L		
	GND	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PRTYERR H	3-D6,R 10-C6,L	SA.CNTR 10 H	3-B2,L		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PURGED L	3-D6,R 10-D3,L	SA.CNTR 11 H	3-B2,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	Q7 H	1-C4,R 1-C6,L	SA.CNTR 12 H	3-A2,L		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	R/W UBDATA L	2-A5,L 10-A7,R	SA.CNTR 13 H	3-A2,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RA=RB L	6-A3,R 7-B2,L	SA.CNTR 14 H	3-A2,L		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RAM 15 H	1-C1,L 1-C8,R	SA.CNTR 15 H	3-A2,L 11-A2,R		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RAM 7 H	1-C4,R 1-C6,L	SCAN L	3-D6,R 10-D3,L		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RAM PE L	3-B6,R 5-B5,R 11-A7,L	SEL LITERAL L	1-A2,R 1-A5,R 1-A8,R 7-C4,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RAM PE1 L	5-B4,L 5-D7,R	SENSE H	5-C8,R 6-C6,L		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD B50 L	2-D2,L 8-D2,L	SEQ ADR 00 H	4-D1,L 4-D5,L 5-D4,R 5-D5,L 8-A3,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RD BUFFER L	2-D2,L 11-B8,R	SEQ ADR 01 H	4-D1,L 4-D5,L 5-D4,R 5-D5,L 8-A4,R		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD CNST L	2-D2,L 8-A6,R	SEQ ADR 02 H	4-D1,L 4-D5,L 5-D4,R 5-D5,L 8-A3,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RD ECC RSDU L	2-D2,L 11-B8,R	SEQ ADR 03 H	4-C1,L 4-D5,L 5-D4,R 5-D5,L 8-A4,R		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD RTDS L	2-D1,L 11-C8,L	SEQ ADR 04 H	4-C1,L 4-C5,L 5-D4,R 8-A3,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RD RTDS L	2-D1,L 11-C8,L	SEQ ADR 05 H	4-C1,L 4-C5,L 5-C4,R 8-A4,R		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD SERDES L	2-D2,L 11-B8,R	SEQ ADR 06 H	4-C1,L 4-C5,L 5-C4,R 8-B3,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RD SERDES L	2-D2,L 11-B8,R	SEQ ADR 07 H	4-C1,L 4-C5,L 5-C4,R 8-B4,R		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD UBADDR L	2-A2,L 8-D2,L 9-A8,R	SEQ ADR 08 H	4-B1,L 4-B5,L 5-C4,R 9-B3,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RD UBAR L	2-A2,L 11-B8,R	SEQ ADR 09 H	4-A5,L 4-B1,L 5-C4,R 8-B4,R		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD UBAR L	2-A2,L 11-B8,R	SEQ ADR 10 H	4-A7,L 4-A5,L 5-B4,R 8-B3,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	RD UBADATA L	2-A2,L 11-B8,R	SEQ ADR 11 H	4-A1,L 4-A5,L 5-B4,R 8-B4,R		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	RD UCR L	2-D2,L 11-A5,R	SEQ CLK L	2-B2,R 2-C4,L 3-D3,R 4-A4,R 4-A7,R 5-C2,R		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R				5-C4,R 6-A2,R 6-B2,R 6-B6,R 7-A5,R 7-C2,R 7-C5,R 8-B3,L		
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L				8-D2,L		
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
		9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L						
		1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R						
	</							

	8	7	6	5	4	3	2	1
D	TEST COND 2 H	3-A6,R	7-A5,R	7-C7,L				
	TEST COND 3 H	3-B5,R	7-A5,R	7-C7,L				
	TEST TRUE H	3-D5,R	6-B7,L					
	TIME ERR L	5-B4,R	5-C5,L					
	TIMEOUT L	5-B4,L	5-D7,R					
	TMSYN H	9-B4,L	10-A4,L					
	U TIMEOUT H	5-C5,L	5-C7,R					
	UA00 H	8-B6,R	8-C6,R	9-D7,L				
	UA01 H	8-B6,R	8-C6,R	9-A7,L	10-A3,R			
	UA02 H	8-B6,R	8-C6,R	9-A7,L	10-A3,R			
	UA03 H	8-B6,R	8-C6,R	9-A7,L	9-B4,L			
	UA04 H	8-B6,R	8-C6,R	9-A7,L	9-B4,L			
	UA05 H	8-B6,R	8-C6,R	9-B4,L	9-B7,L			
	UA06 H	8-B6,R	8-C6,R	9-B7,L	9-C4,L			
	UA07 H	8-B6,R	8-C6,R	9-B7,L	9-C4,L			
	UA08 H	8-B6,R	8-C6,R	9-B7,L	9-C4,L			
	UA09 H	8-A6,R	8-C6,R	9-B5,L	9-D7,L			
	UA10 H	9-B5,L	9-D7,L					
	UA11 H	9-B5,L	9-C7,L					
	UA12 H	9-C5,L	9-C7,L					
	UA13 H	9-C5,L	9-C7,L					
	UA14 H	9-C5,L	9-C7,L					
C	UA15 H	9-C5,L	9-C7,L					
	UA16 H	9-C4,L	11-D3,L					
	UA17 H	9-B5,L	11-D3,L					
	UBMASTER L	3-D6,R	8-D3,R	10-C1,L				
	UDATARDY H	3-D6,R	10-A5,L					
	UPROC H	2-D4,L	3-C7,R	4-A8,R	5-C7,R	5-D7,R	8-B4,R	
	UPROC L	2-A8,R	2-C4,L	3-A7,R	3-B5,R	5-B7,R	5-C7,R	
	UTEST H	3-C6,R	10-C5,L					
	WRTX0.INIT L	10-D5,L						
	WRTX0.RUN L	10-D5,L						
	WRTX2.INIT L	10-A8,R	10-D5,L					
	WRTX2.RUN L	10-D5,L						
	XFER L	10-A6,R						

D
 C
 B
 D

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	20-JUL-82			LDA # 1
DSX:LDATL (2PCY,50)		120-JUL-82 12:55	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL:		LDA	B-DD-M7161-0	K CS	M7161-0-LDA1

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																			
				B	C																		
B-DD-M7162-0	-	M7162-00	DRAWING DIRECTORY	B	C																		
K-PL-M7162-0-DBP	3		PARTSLIST DATA BASE	B	C																		
D-UA-M7162-0-0	2		UNIT ASSEMBLY	B	C																		
K-PC-M7162-0-DBC	-		P.C. DATA BASE	B	C																		
K-CS-M7162-0-DBS	-		SUDS DATA BASE	B	C																		
K-CS-M7162-0-UDA2	13		CIRCUIT SCHEMATIC	B	C																		
		5014921-00	P.C. ETCH BOARD	B	C																		
E-EC-5014921-0-0	3		ETCH CUT DRAWING	B	C																		
D-MD-5014921-0-0	6		DRILL & ETCH DRAWING	B	C																		

NOTES:

DATE	CHG NO.	REV.	REVISIONS																			
			B	C																		
2/24/81	1	B																				
3/27/82	2	A																				

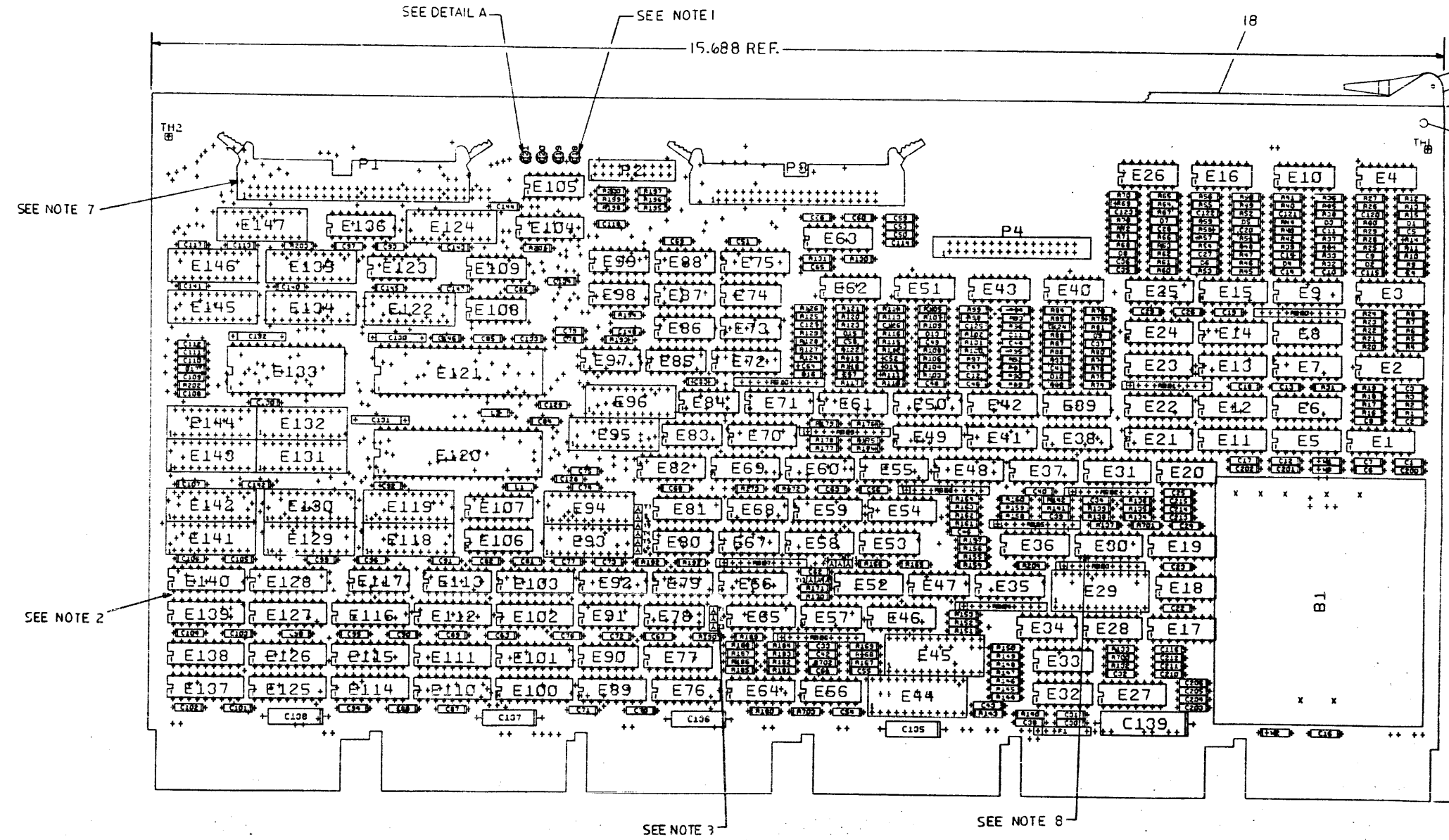
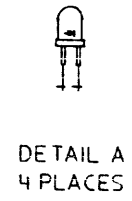
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USED ON OPTION/MODEL	DRN. S. Lehman	4-14-82	TITLE	UDA # 2
RASO	CHK'D M. Landy	2/24/81	SIZE	B DD
	ENG. D. Swift	3-3-82	CODE	DD
	PROD D. Swift (RPA)	7 SEP 82	NUMBER	M7162-0
			REV.	C
			SHEET	1 OF 1

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COMPONENT SIDE VIEW



NOTES: FOR NOTES SEE SHEET 2.

STEP	E	Y AXIS	TIME
REP	X AXIS	STEP	TZMS

CHK	CHANGE	NO	REV	C
1376	M7162-CR00	5-4-82	J. PULSIPHER	

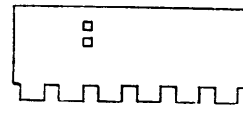
ETCH REV. C-02

SIGNATURES	DATE	TITLE
DRN. J. PULSIPHER	5-4-82	digital
CHK'D. J. PULSIPHER	5-4-82	
MECH. ENG. J. PULSIPHER	5-3-82	
PROJ. ENG. J. PULSIPHER	5-3-82	
PROD. J. PULSIPHER	7 SEP 82	
SCALE 1.5/1		U.D.A. # 2
SHT. 1 OF 2		SIZE CODE NUMBER
NEXT HIGHER ASSY. B DA-M 7162-0		0 U.A. M7162-0-0

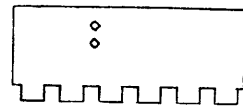
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NOTES:

1. D18, D19, D20 & D21 TO BE MOUNTED ON COMPONENT SIDE, LONGER LEG TO LEFT. LEADS APPROX. .18" LONG IN ORDER TO BEND OVER AS SHOWN.
2. PLEASE FOLLOW CMOS HANDLING PROCEDURES WHEN INSTALLING E100-E103, E110-E112, E114-E116, E125-E128, E137-E140. = VERY IMPORTANT =
3. PINS T1-T15 (I210385-01) MUST BE INSTALLED ON BOARD WITH SIDES PARALLEL TO EDGES OF BOARD.



THIS



NOT THIS

JUMPERS W4-W8 (I214314-00) ARE INSTALLED AS FOLLOWS:

- JUMPER W4-PINS T1 & T2
- JUMPER W5-PINS T4 & T5
- JUMPER W6-PINS T7 & T8
- JUMPER W7-PINS T11 & T12
- JUMPER W8-PINS T13 & T14

4. THE FOLLOWING ARE SPARES ON THE BOARD. THEY CAN BE USED FOR ADDING COMPONENTS TO THE CIRCUIT: E27, E24, E1, E5, E11, E17, E18, E19, E20, E21, E6, E12, E22, E63, E89, E124, E146, C50, C53, C59, C114, C21-NOT USED. C200-C206, C210-C215.
5. THE FOLLOWING ARE EXTRA ECL DATA BUS TERMINATION RESISTORS WHICH CAN BE USED TO "TWEAK" THE ECL LINES IF NECESSARY: R172, R177, R178, R179, R142, R158, R159, R164, R163, R162, R160, R161, R22, R5, R23, R24.
6. RESISTORS R204, R700, R701, R702, R703 APPEAR ON SHEET 1 OF THIS DOCUMENT, BUT ARE NOT IN SEQUENTIAL ORDER.
7. CONNECTOR P1 (I216832-03) TO BE MOUNTED ON COMPONENT SIDE WITH PIN 1 TO THE FAR LEFT.
8. MOUNT ITEM 83 (E30, E37, E48, E52, E54, E64) FLUSH WITH BOARD.

REVISION HISTORY		
DATE	ECD NUMBER	REV.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	E-MD-5014921-0-0	5014921-00	DRILL AND ETCH BRD.	1	
2		1212385-00	*** THIS ITEM IS NOT USED ***	-	
3		1012784-00	.047 MFD 50V +80-20% CER	124	C1-C5, C7-C15, C17-C20, C22-C49, C51, C52, C54-C58, C60-C113, C115-C118, C128, C129, C133, C134, C140-C148
4		1013466-09	1000.0 MMF 50V 10% X7R CER	2	C6, C16
5		1013466-11	.22 MFD 50V +80-20% Z5U CER	3	C130, C131, C132
6		1015878-00	.01 MFD 50V +80-20% CER	8	C120-C127
7		1016549-00	.47 MFD 10V +50-10% AL EL	4	C135-C138
8		1104860-00	1N 746A VZ= 3.3 5%	8	D6, D2, D14, D10, D8, D4, D16, D12
9		1105275-00	D 672 TR= 15NS PIV= 60V SI	8	D5, D1, D13, D9, D7, D3, D15, D11
10		1110836-00	1N 759A VZ= 12.0 5% .40W	1	D17
11		1112689-00	LED .8MCD@16MA VF=5V	4	D18-D21
12		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	F1
13		1210385-01	PIN 1POS WIRE WRAP	15	T1-T15
14		1212965-04	PCB, HEADER 20PIN(2X05).100CC 90D	1	P2
15		1214314-00	CONN, P+S 02SKT(1X02).100CC JUM	5	W4-W8
16		1216832-02	PCB, HEADER 40POS(2X20).100CC 90D	1	P3
17		1216832-03	PCB, HEADER 50POS(2X25).100CC 90D	1	P1
18		1216988-02	HANDLE, MODULE, HEX TWO EJECTORS	1	
19		1218348-00	PCB, HEADER 32PIN(2X16).100CC 90D	1	P4
20		1300202-00	47.0 .25 W 5.0 % CC	16	R16, R43, R29, R32, R45, R58, R61, R72, R82, R87, R89, R101, R103, R111, R110, R128
21		1300247-00	120.0 .25 W 5.0 % CC	16	R156, R141, R135, R187, R183, R185, R153, R150, R182, R192, R155, R170, R700, R701, R702, R703
22		1300271-00	220.0 .25 W 5.0 % CC	8	R52, R15, R109, R81, R67, R38, R123, R96

REVISION HISTORY		BASIC PART NO: M7162		DRW: S. BOURBEAU		DATE: 20-JAN-81		D I I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R. MICHAUD	DATE:	20-JAN-81	TITLE	PARTS LIST
	INITIAL		SECTION VARIATION INDEX					UDA # 2	
	162-CX001	C	CAJ 00	DES. ENG:	J. PULSIPHER	DATE:	20-JAN-81	DOCUMENT NUMBER	
			CBJ	RESP. ENG.:	B. MATHRANI	DATE:	20-JAN-81	SIZE(CODE)	NUMBER
			CCJ	MFG. ENG.:	D. SWIFT	DATE:	20-JAN-81	K	PL
			CDJ	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT
			CEJ	ED-UA-M7162-0-0		#8-DD-M7162-0		Z1770C.PLS	21
			CFJ						
			CGJ						
			CHJ						
			CHJ						
			CKJ						
			CLJ						
			CMJ						
			CNJ						

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PARTS LIST

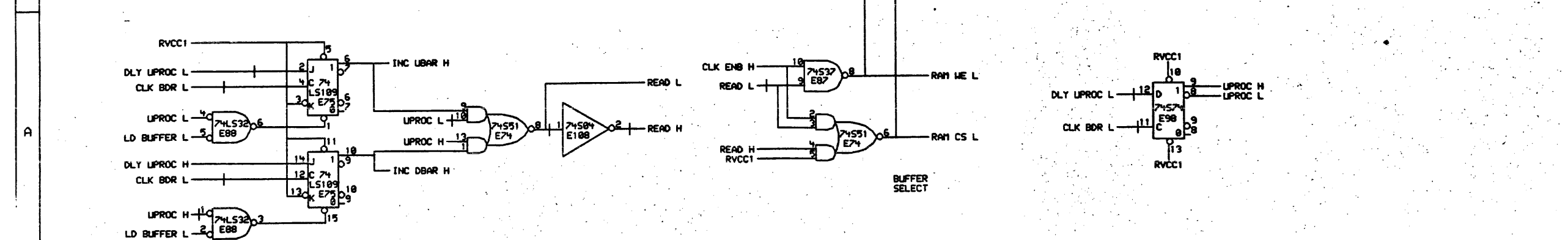
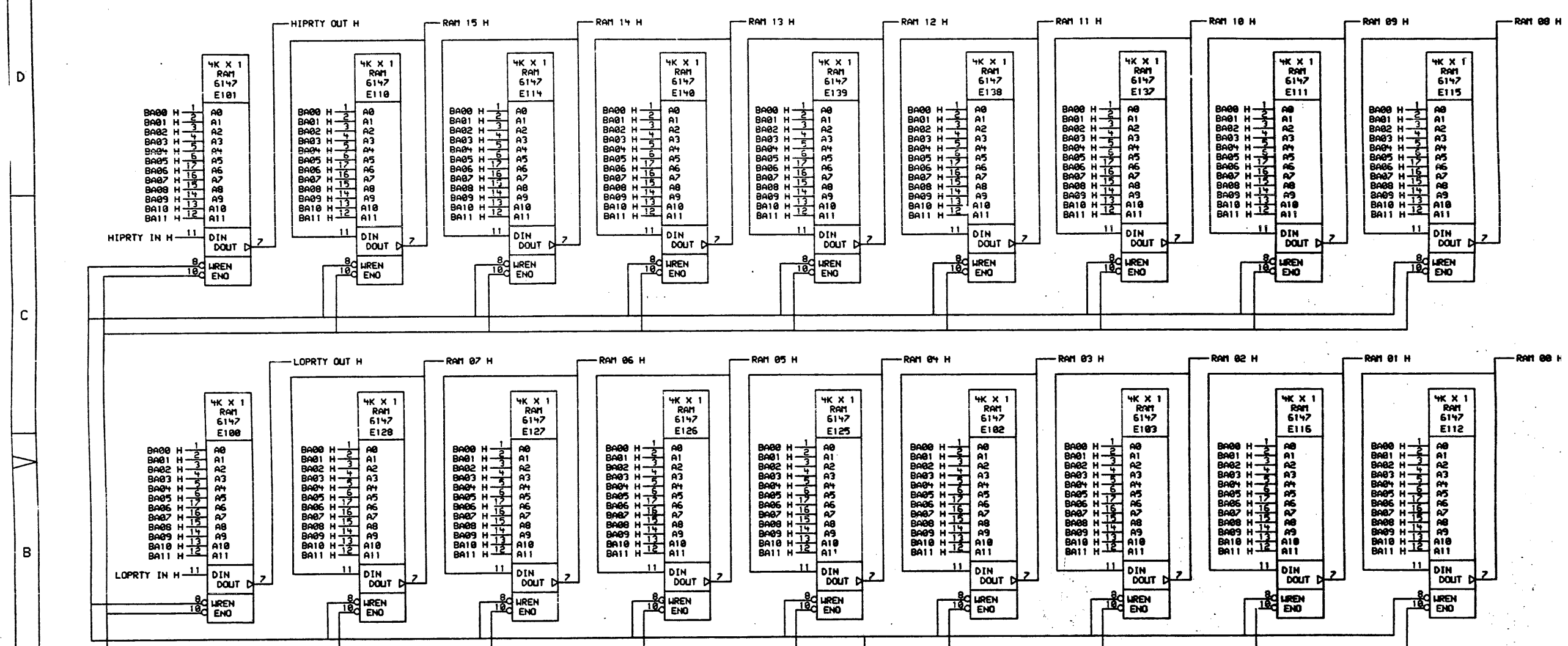
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
							00
23	23		1300316-00	470.0 .25 W 5.0 % CC	12		R201,R190,R189,R6,R21,R174,R173, CONT. R1,R7,R8,R176,R175, R194 R203 R193 R202,R3,R20,R19,R18 R131,R130,R198,R199,R200,R197, R196,R195 CONT. R132,R204,R147,R144,R148,R149, R165,R140 R2,R4,R17,R31 R56,R50,R55,R49,R27,R13,R26,R12, CONT. R114,R107,R113,R105,R85,R79,R84, CONT. R78,R70,R65,R69,R64,R41,R36,R40, CONT. R35,R126,R121,R125,R120,R99,R94, CONT. R98,R93 R57,R51,R54,R48,R28,R14,R25,R11, CONT. R115,R108,R112,R106,R06,R80,R83, CONT. R77,R71,R66,R68,R63,R42,R37,R39, CONT. R34,R127,R122,R124,R119,R100, CONT. R95,R97,R92 R157,R136,R139,R188,R186,R184, CONT. R152,R131,R151,R154,R171,R131, CONT. R133,R137,R167,R180 R300-R310 R47,R10,R104,R76,R62,R33,R118, CONT. R91 R169,R168,R143,R166,R134,R138, CONT. R146,R145 R44,R46,R30,R9,R73,R60,R59,R53, CONT. R102,R90,R88,R74,R129,R117,R115, CONT. R75 E97 E28,E57,E34,E56 E53,E33 E4,E16,E40,E51,E10,E26,E43,E62 E47,E32 E108,E84 E99,E85,E98,E79,E90,E105 E76 E69 E81,E92 E8,E23,E49,E70 E31 E35 E60,E59,E65 E66,E58 E36,E46
24	24		1300365-00	1.0 K .25 W 5.0 % CC	1		
25	25		1300432-00	3.0 K .25 W 5.0 % CC	1		
26	26		1300479-00	10.0 K .25 W 5.0 % CC	1		
27	27		1301477-00	82.0 .25 W 5.0 % CC	5		
28	28		1302379-00	75.0 .25 W 5.0 % CC	8		
29	29		1302873-00	261.0 .25 W 1.0 % RN55D-F10	8		
30	30		1302887-00	130.0 .25 W 1.0 % RN55D-F10	4		
31	31		1303036-00	56.20 .25 W 1.0 % RN55D-F10	32		
32	32		1304863-00	316.0 .25 W 1.0 % RN55D-F10	32		
33	33		1311522-00	200.0 .25 W 5.0 % CC	16		
34	34		1312114-01	R NETWORK 8-470 5.0 % 10PIN	11		
35	35		1312929-00	62.0 .25 W 5.0 % CC	8		
36	36		1318341-01	162.0 .25 W 1.0 % RN55D-F10	8		
37	37		1318341-02	187.0 .25 W 1.0 % RN55D-F100	16		
38	38		1617533-00	DELAY= 250NS,5TAPS 14PIN DIP	1		
39	39		1618336-00	DELAY= 10NS	4		
40	40		1618337-00	DELAY= 18NS	2		
41	41		1618343-00	PULSE XFMR,RATIO 1:1:1, 80UH	8		
42	42		1618345-00	DELAY= 14NS	2		
43	43		1910534-00	74S04 INVERTER GATE-HEX 1I	2		
44	44		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	6		
45	45		1910545-00	74S112 FF-JK DUAL,EDGE TRIG.	1		
46	46		1910956-00	74S151 MUX 1 OF 8	1		
47	47		1910957-00	74S175 FF-D QUAD COMMON CLO	2		
48	48		1911399-00	10102 NOR GATE,QUAD 2IN	4		
49	49		1911401-00	10104 AND GATE,QUAD 2IN	1		
50	50		1911404-00	10107 XOR/NOR GATE,3-2IN	1		
51	51		1911414-00	10124 TTL TO ECL TRNSLTR	3		
52	52		1911415-01	10125 ECL TO TTL TRANSLATE	2		
53	53		1911420-00	10174 DUAL 4 TO 1 MUX	2		

D I G I T A L										TITLE																													
UDA # 2										SECTION A OF A																													
K										PL										DOCUMENT NUMBER										REV									
																				H7162-0-DBP										C									

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
54	54		1911573-00	74S280 PARITY GEN/CHKR,9BIT	2		E91,E117
55	55		1911712-00	74S51 AND-OR GATE-INVERT D	2		E74,E73
56	56		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	1		E80
57	57		1912389-00	74S08 AND GATE-QUAD 2IN,PO	1		E83
58	58		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1		E87
59	59		1912801-00	LS02 NOR-GATE-QUAD 2IN	1		E109
60	60		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1		E88
61	61		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1		E86
62	62		1912833-00	LS109 FF-JK DUAL,POS EDGE	1		E75
63	63		1912847-00	LS157 MUX 1 OF 2(QUAD)	1		E113
64	64		1912848-00	LS158 MUX 1 OF 2(QUAD)	1		E104
65	65		1912853-00	LS175 FF-D QUAD	1		E123
66	66		1912860-00	LS259 LATCH 8BIT	1		E136
67	67		1912863-00	LS273 FF-D OCTAL W/CLEAR	3		E147,E94,E95
68	68		1912864-00	LS279 LATCH,QUAD-S-R	1		E72
69	69		1913340-00	74S32 OR GATE-QUAD 2IN	2		E78,E67
70	70		1913493-01	74S241J OCTAL BUFFER,TRI-STA	4		E131,E132,E143,E144
71	71		1913671-00	74S374 FF-D OCTAL TRISTATE	4		E141,E129,E142,E130
72	72		1913939-00	LS191 COUNTER,SYNCHR. UP/D	2		E106,E107
73	73		1914082-01	74S163 COUNTER,SYNCH,UP/DOW	2		E77,E82
74	74		1914214-00	LS374 FF-D OCTAL EDGE TRIG	6		E135,E134,E145,E118,E119,E93
75	75		1915193-00	LS244 DRIVER,LINE,OCTAL,T	2		E96,E122
76	76		1916574-00	10114 RECEIVER,LINE,TRIPL	8		E15,E71,E3,E38,E25,E55,E9,E41
77	77		1917043-00	DC 018 SERIALIZER-DESERIALIZ	2		E120,E121
78	78		1917277-00	100131 FF-D TRIPLE	1		E44
79	79		1917289-00	100102 OR/NOR GATE,QUINT,2	2		E45,E29
80	80		1917839-00	10192 LINE DRIVER,QUAD DIF	8		E2,E14,E42,E61,E7,E13,E39,E50
81	81		1917956-00	74LS280N PARITY GEN/CHK,9BIT	1		E68
82	82		1918352-00	PS 4317 DC-DC CONVERTER	1		B1
83	83		1918353-00	10231 FF-D MASTER-SLAVE	6		E30,E52,E64,E37,E48,E54
84	84		2115102-00	DEC DC309 NMOS CUSTOM LSI FOR	1		E133
85	85		2117498-02	6147P RAM,4KX1,STATIC,55NS	18		E101,E110,E114,E140,E139,E138, CONT E137,E111,E115,E100,E128,E127, CONT E126,E125,E102,E103,E116,E112
86	86		9000024-01	EYELET,ROLLED 0.1210DX0.192	12		
87	87		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3		W1-W3
88	88		1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2		L1,L2
89	89		9105740-55	*** THIS ITEM IS NOT USED ***	-		
90	90		9009157-00	*** THIS ITEM IS NOT USED ***	-		
91	91		4901259-00	*** THIS ITEM IS NOT USED ***	-		
92	92		9107256-11	*** THIS ITEM IS NOT USED ***	-		
93	93		1001796-00	50 MFD 25V +75-10% AL EL	1		C139

DIGITAL				TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV.
				UDA # 2			K	PL	M7162-0-DBP	C

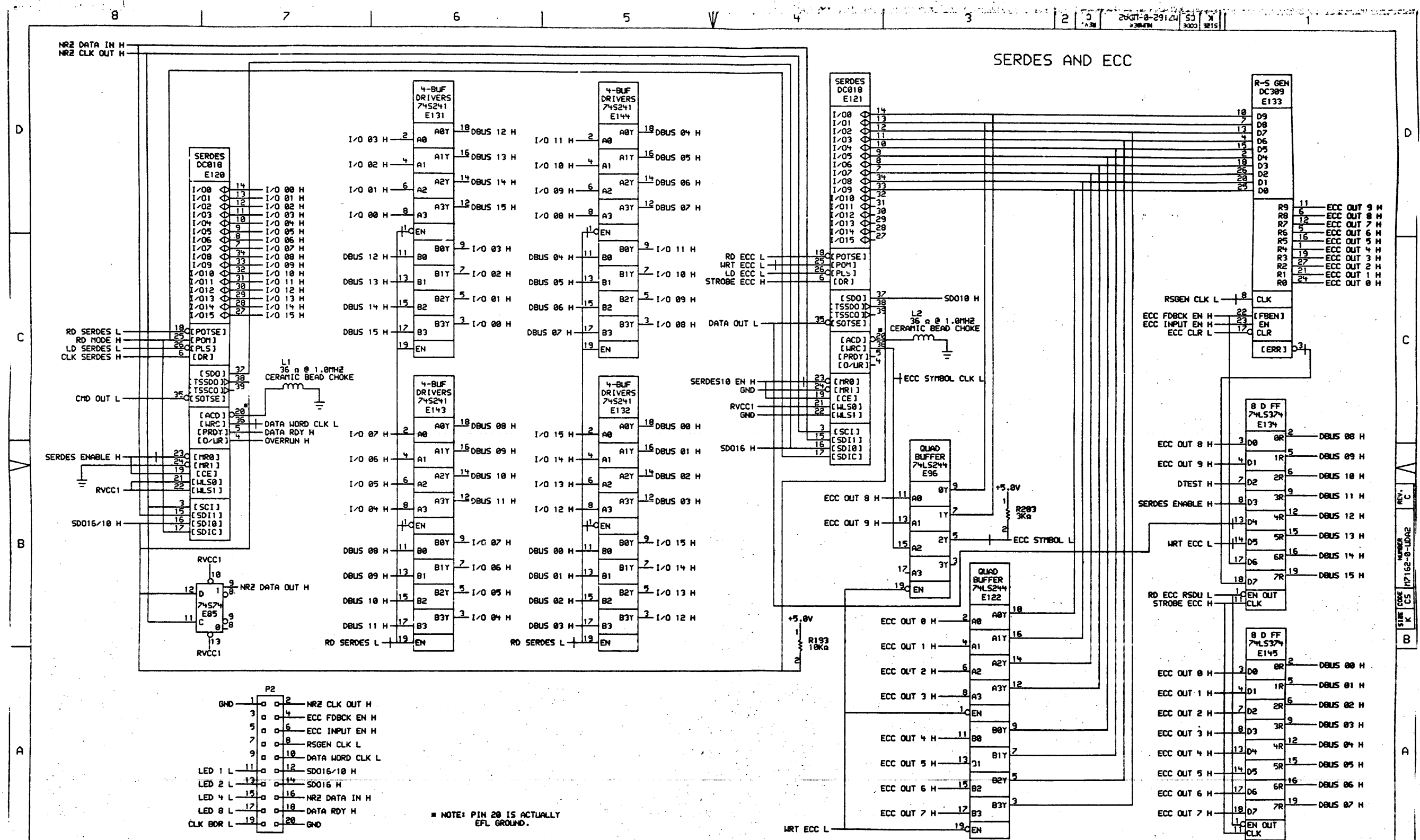
BUFFER MEMORY



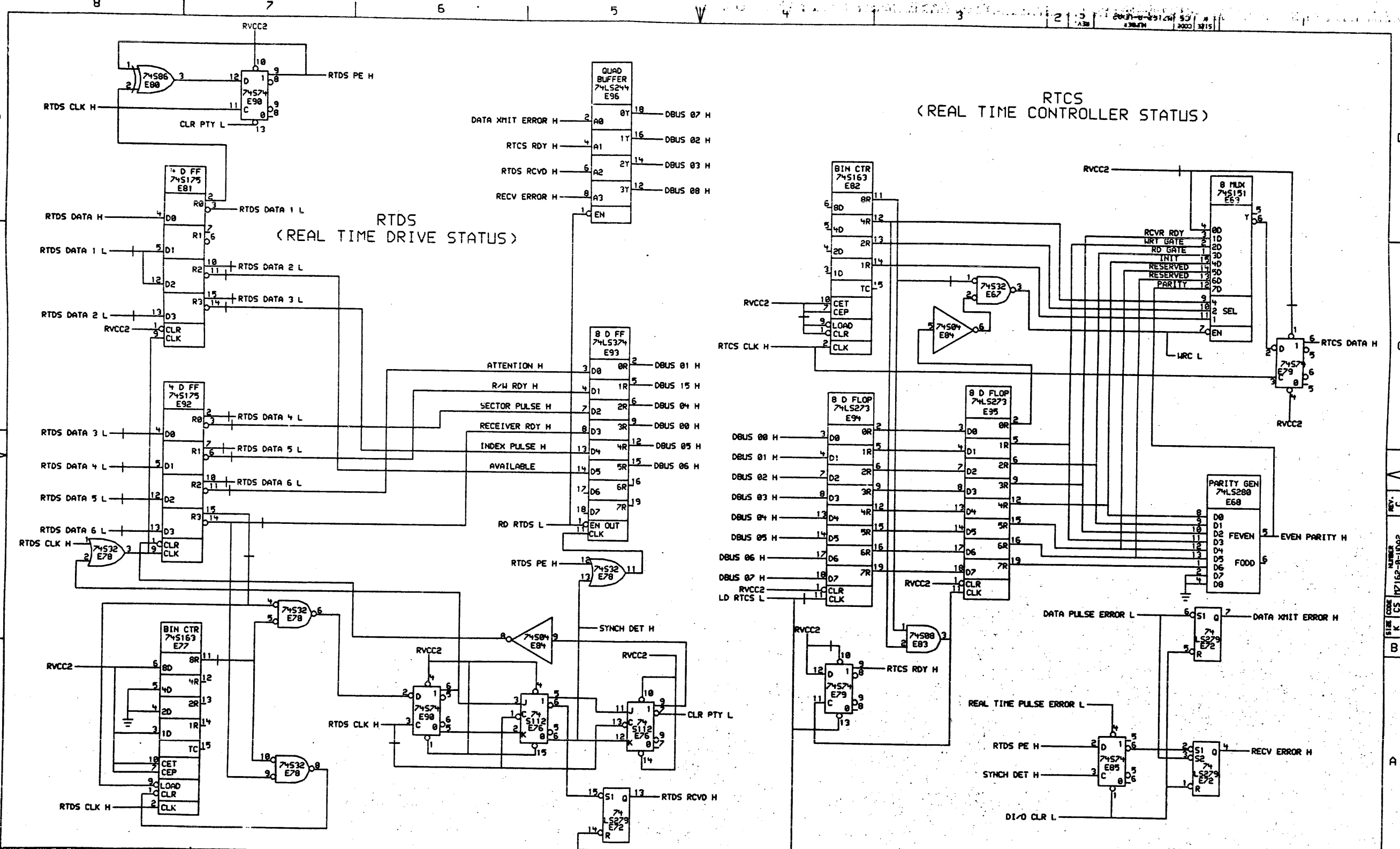
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REVISIONS	CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE
	CHK'D.	DATE	BOARD LOCATION	SHEET	OF 16
FIRST USED ON OPTION MODEL: LDA					NUMBER
B-DD-17162-0					CS M7162-0-LDA2



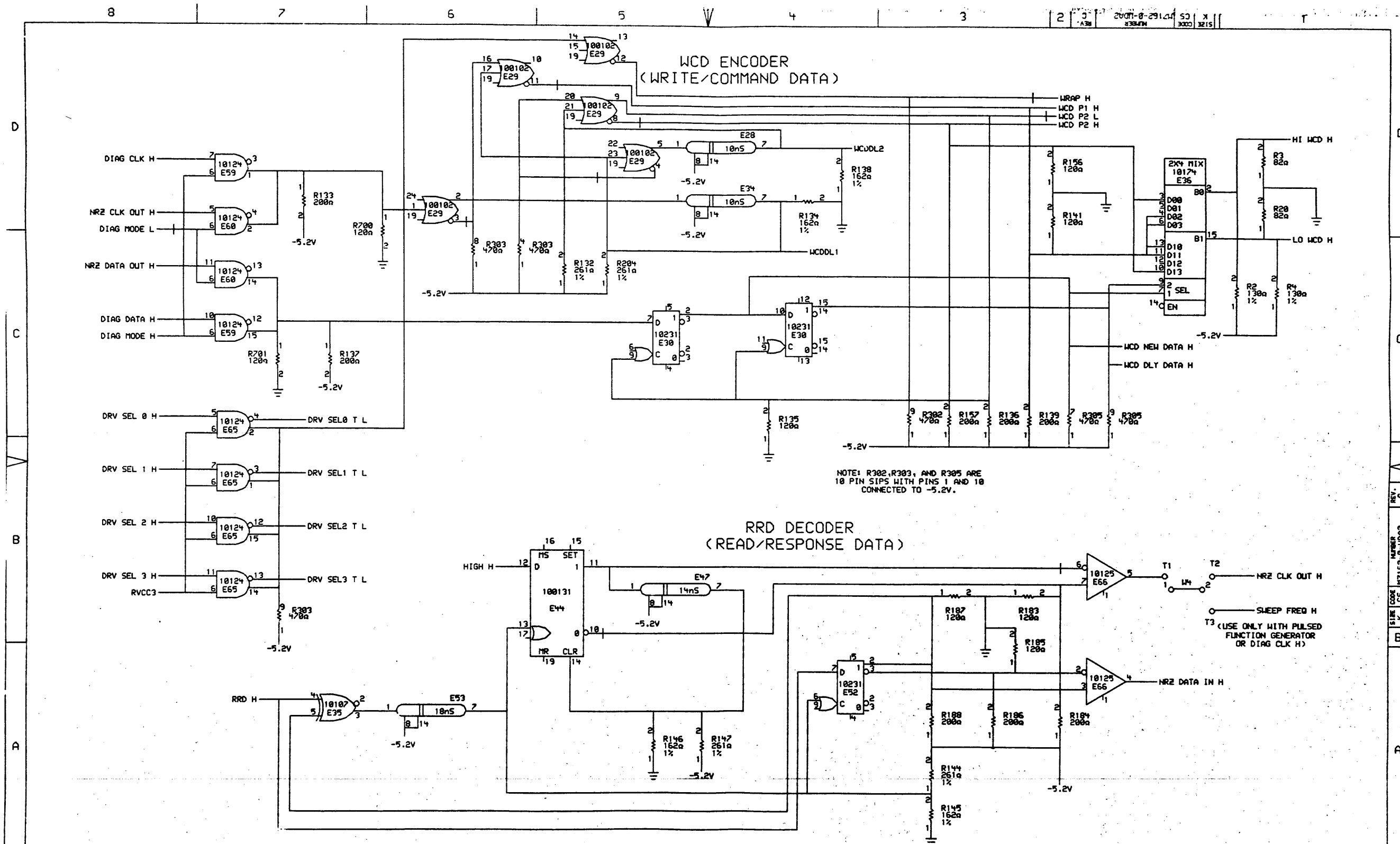
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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE
	CHK'D.	DATE	BOARD LOCATION	SHEET	OF 16
PS1C/DONHERTY/DVA/2CS.DRN/14-SEP-82 17148 (NEXT HIGHER ASSEMBLY)					UDA # 2
FIRST USED ON OPTION MODEL: UDA B-DD-M7162-0					SIZE CODE NUMBER REV.
					K CS M7162-0-UDA2 C



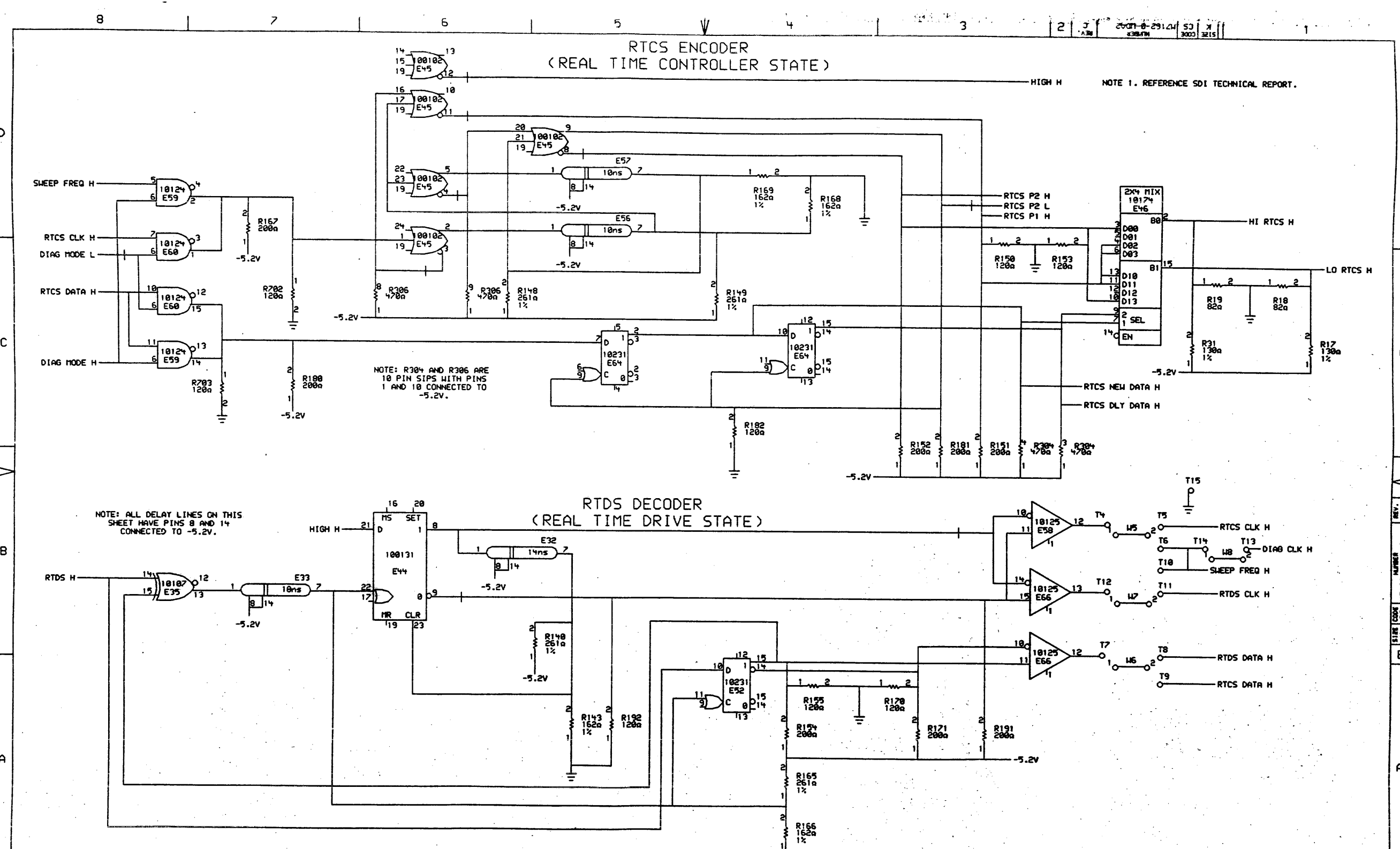
NOTE: R302, R303, AND R305 ARE 18 PIN SIPS WITH PINS 1 AND 18 CONNECTED TO -5.2V.

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REVISIONS	
CHK	CHANGE NO. / REV

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	DATE	BOARD LOCATION:	SHEET	OF 16
PS1000GHERTY\UDA2C7.DRW114-SEP-82 17:41	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: UDA	B-DD-M7162-0	K CS	M7162-0-UDA2	C

REV. C
 SIZE CODE NUMBER
 K CS M7162-0-UDA2

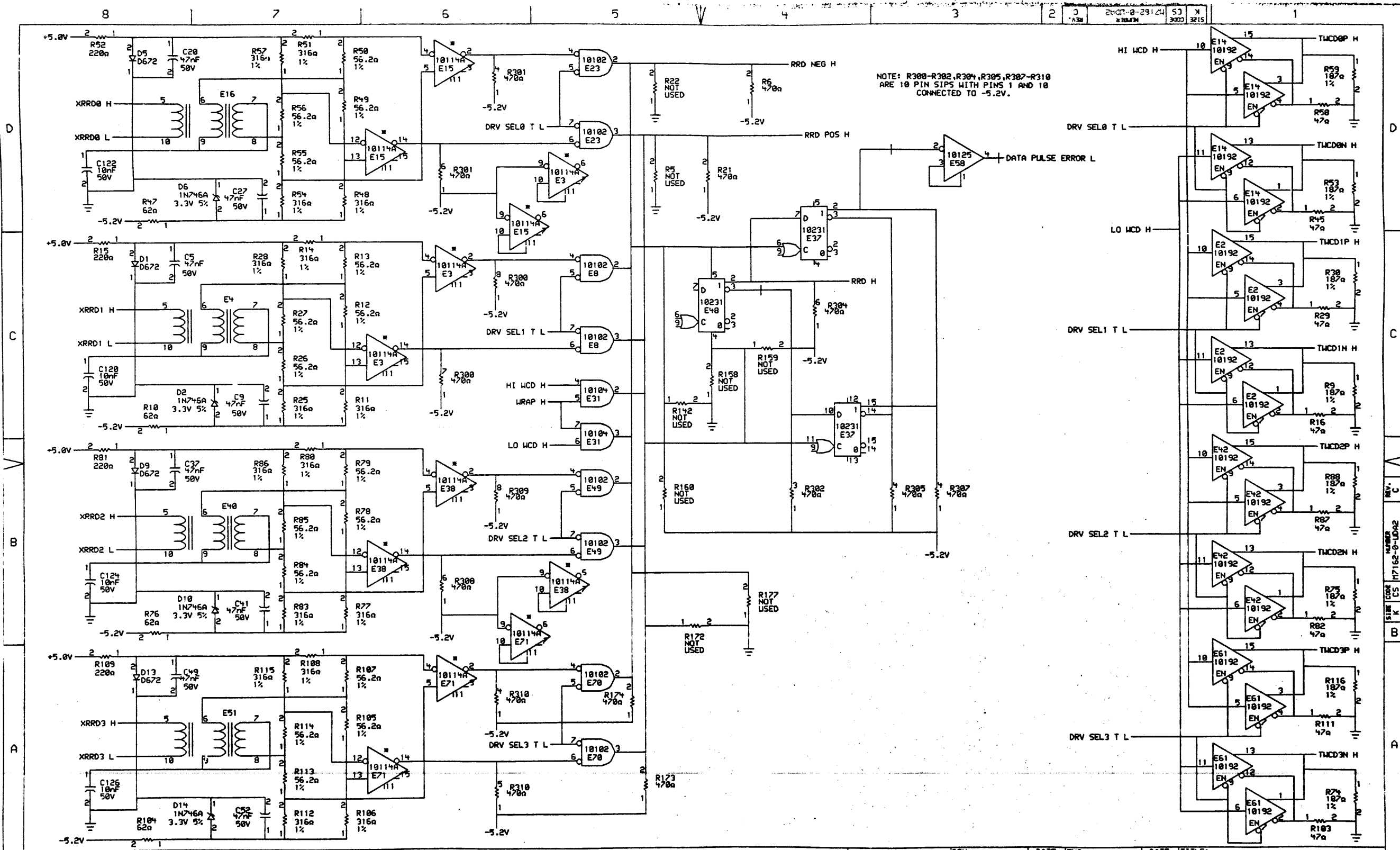


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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN.	DATE	ENG.	DATE	TITLE
	CHK'D.	DATE	BOARD LOCATION	SHEET	OF 18
FIRST USED ON OPTION/MODEL: LDA B-DD-M7162-0					NUMBER
NEXT HIGHER ASSEMBLY: B-DD-M7162-0					REV. C

REV. C
 M7162-0-UDA2
 K CS

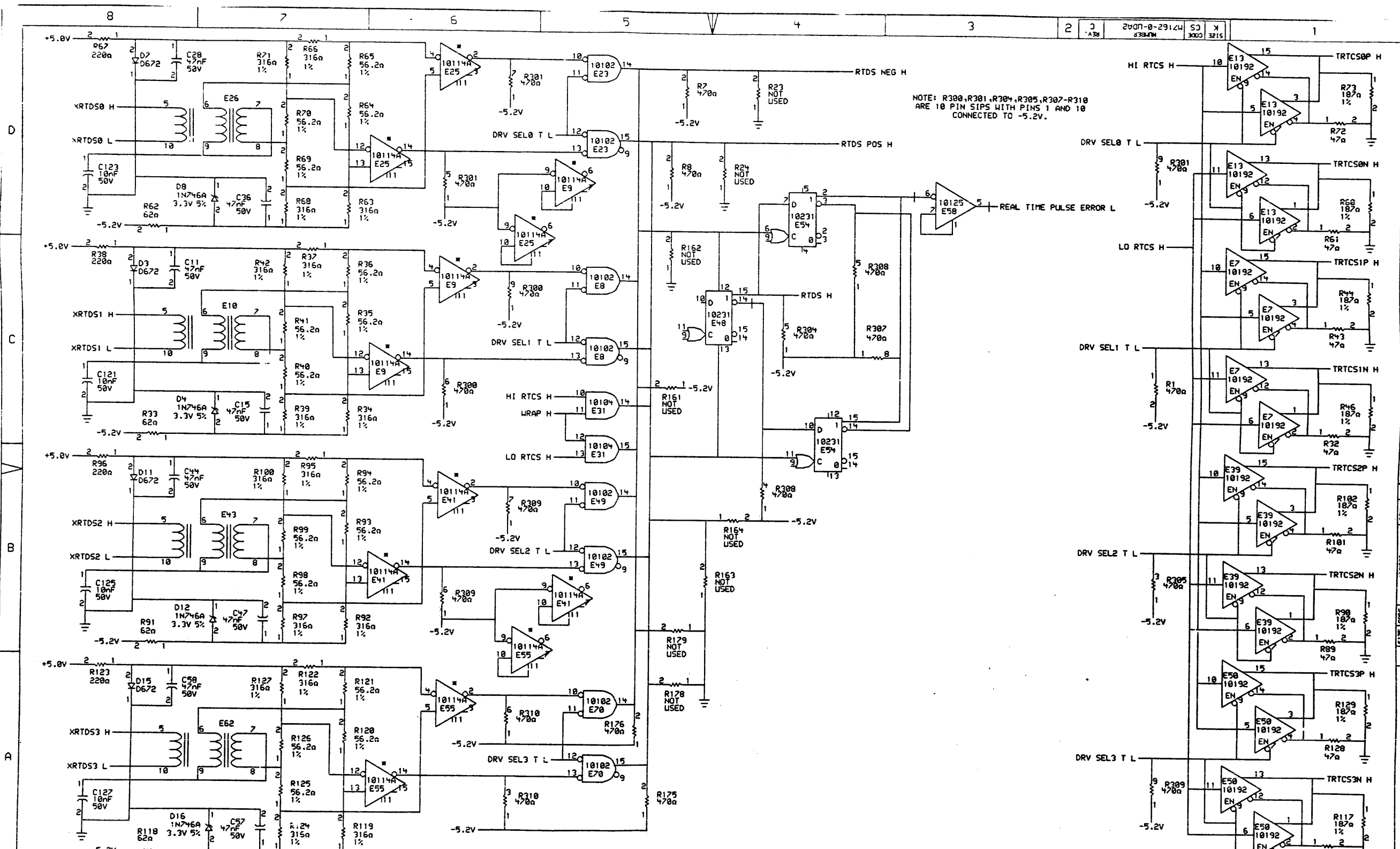


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REVISIONS	
CHK	CHANGE NO. REV

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	DATE	BOARD LOCATION:	SHEET 3 OF 16	UDA # 2
PSI(DOUGHERTY)UDA2C9.DRW(14-SEP-82 17142	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: UDA	B-DD-M7162-0	K CS M7162-0-UDA2	C	C

8	7	6	5	4	3	2	1
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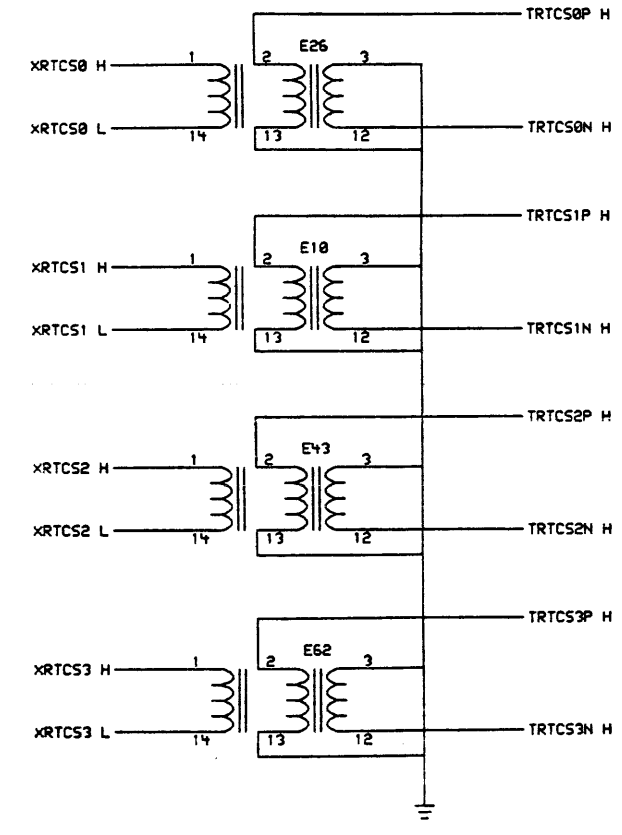
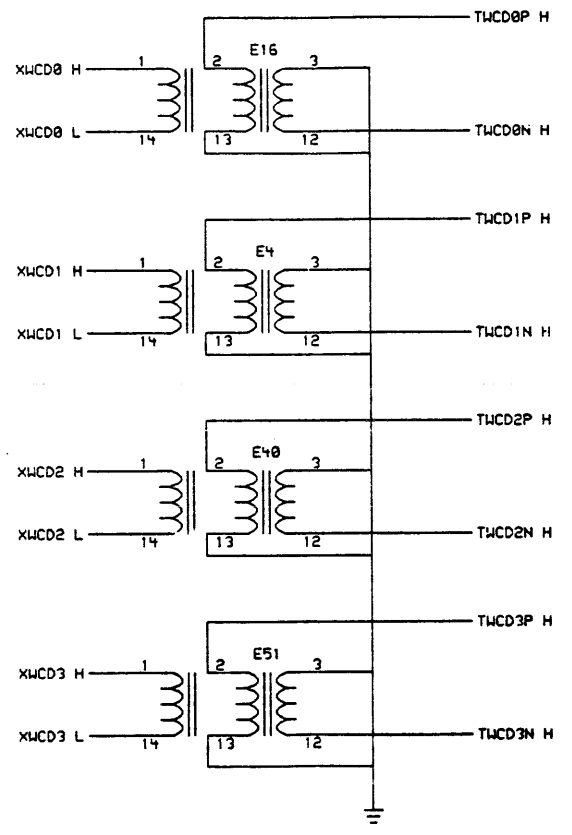
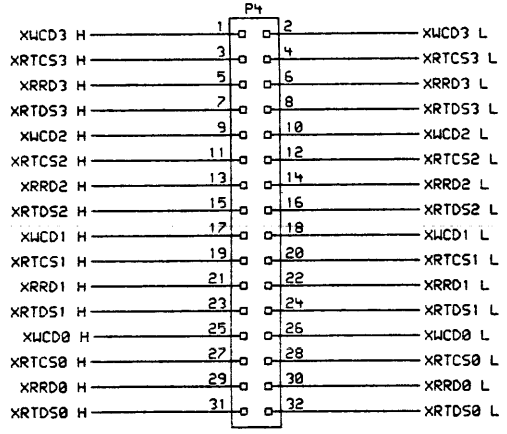


NOTE: R300, R301, R304, R305, R307-R310
ARE 10 PIN SIPs WITH PINS 1 AND 10
CONNECTED TO -5.2V.

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	14-SEP-82			
PS1 (DOUGHERTY) LDR2CA.DRW 14-SEP-82 12:42		NEXT HIGHER ASSEMBLY:		SHEET 18 OF 16	
FIRST USED ON OPTION/MODEL: UDA		B-DD-M7162-0		SIZE/CODE	NUMBER
				K CS	M7162-0-UDA2
				UDA # 2	REV. C



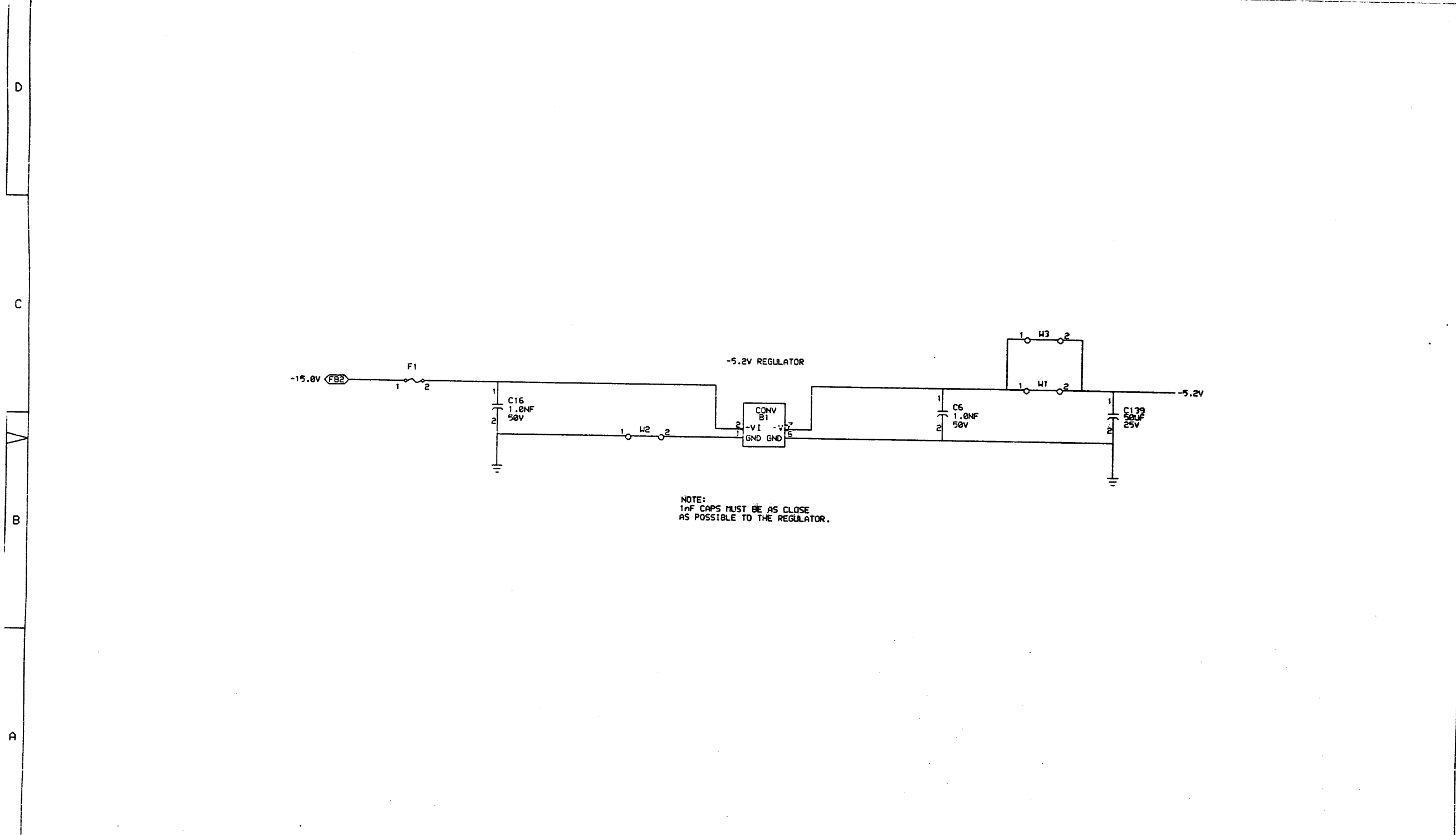
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REVISIONS		
CHK	CHANGE NO.	REV.

	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	14-SEP-82			UDA # 2
PS: DOUGHERTY\UDA2C3.DRW 14-SEP-82 12:43		BOARD LOCATION:		NUMBER	
FIRST USED ON OPTION/MODEL: UDA		NEXT HIGHER ASSEMBLY: B-DD-M7162-0		SIZE CODE K CS M7162-0-LDA2	
				SHEET 11 OF 16	REV. C

REV. C
NUMBER M7162-0-LDA2
SIZE CODE K CS

8 7 6 5 4 3 2 1



NOTE:
1NF CAPS MUST BE AS CLOSE
AS POSSIBLE TO THE REGULATOR.

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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	14-SEP-82			LDA # 2
PS1 CDOLGHERTY LDA2CC.DRW		14-SEP-82	17:43	NEXT HIGHER ASSEMBLY:	SIZE CODE
FIRST USED ON OPTION/MODEL: LDA		B-DD-M7162-0			K CS M7162-0-LDA2
					NUMBER
					REV. C

8 7 6 5 4 3 2 1

D C B A D C B A D

REV. C
NUMBER M7162-0-LDA2
SIZE CODE K CS



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REVISIONS	
CHK	CHANGE NO. REV

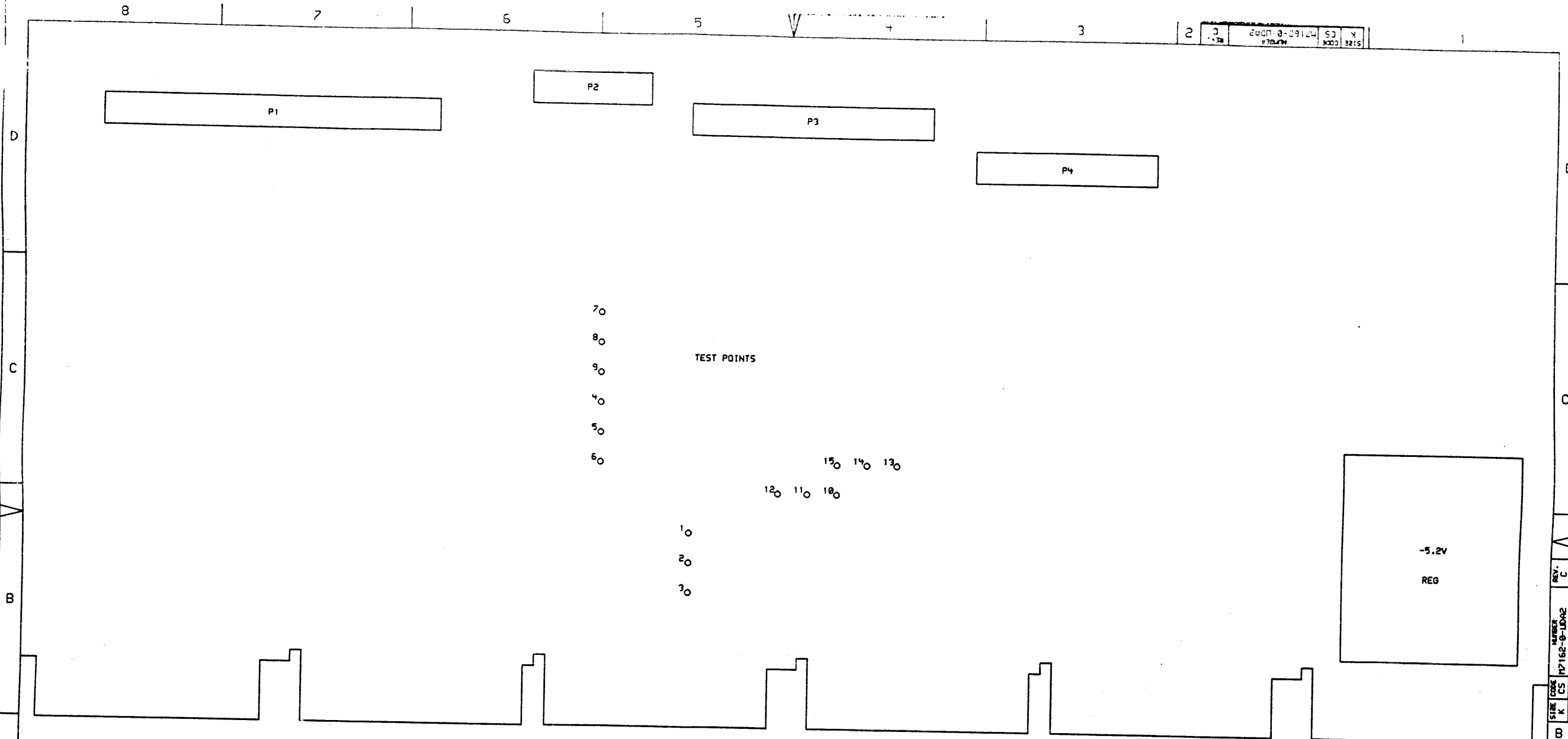


DRN. DATE ENG. DATE TITLE:
CHK'D. DATE BOARD LOCATION:
SHEET 13 OF 16

PS1(COUGHERTY)UDA2CD.DRN114-SEP-82 12:43 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: LDA B-DD-M7162-0

SIZE	CODE	NUMBER	REV.
K	CS	M7162-0-UDA2	C

LDA # 2



NOTE: JUMPER CONFIGURATIONS

NORMAL CONFIGURATIONS	TTL WRAPAROUND W/DIAG CLK	TTL WRAPAROUND W/PULSED EXT CLK
1 - 2	2 - 3	2 - 3
4 - 5	5 - 6	5 - 6
7 - 8	8 - 9	8 - 9
11 - 12	10 - 11	10 - 11
13 - 14	13 - 14	14 - EXT CLK
		15 - EXT CLK GND

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REVISIONS	
CHK	CHANGE NO. REV.

digital DRN.	DATE	ENG.	DATE	TITLE:
	14-SEP-82			UDA # 2
CHK'D.	DATE	BOARD LOCATION:	SHEET	OF 16
PS1:DOUGHERTY:UDACE.DRW	14-SEP-82 12:43	NEXT HIGHER ASSEMBLY:	SIZE	CODE
FIRST USED ON OPTION/MODEL:	UC.1	B-DD-M7162-0	K	CS
			NUMBER	REV.
			M7162-0-UDA2	C

REV. C
 CS M7162-0-UDA2
 K CS
 B
 A

Vertical location (A-D)	Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)	Horizontal location (1-8)	Vertical location (A-D)	Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)	Horizontal location (1-8)	Vertical location (A-D)	Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)	Horizontal location (1-8)	Vertical location (A-D)	Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)	Horizontal location (1-8)	Vertical location (A-D)	Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)	Horizontal location (1-8)	Vertical location (A-D)	Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)	Horizontal location (1-8)
+12.0V		1-D1,L															
+15.0V		1-D2,R <CU1>															
+5.0V		1-A4,R 1-C1,L 1-C4,D 5-B3,D 5-B4,D 9-A8,R															
		9-B8,R 9-C8,R 9-D8,R 10-A8,R 10-B8,R 10-C8,R 10-D8,R 13-C8,D															
		13-C8,D 13-D8,D															
		1-C2,R <AA2> 1-C2,R <DA2> 1-C2,R <EA2> 1-C2,R <FA2>															
-15.0V		12-C7,R <FB2>															
-5.2V		7-A2,D 7-A5,D 7-B4,R 7-B7,D 7-C1,R 7-C6,R															
		7-C7,D 7-C7,D 8-A3,L 8-A5,D 8-B4,R 8-C2,R 8-C7,D 8-C7,D															
		8-C7,R 9-A6,D 9-A6,D 9-A8,R 9-B3,D 9-B6,D 9-B6,D 9-B8,R															
		9-C4,D 9-C6,D 9-C6,D 9-C8,R 9-D4,D 9-D4,D 9-D6,D 9-D6,D															
		9-D8,R 10-A2,D 10-A6,R 10-A6,R 10-A8,R 10-B2,D 10-B4,L 10-B6,D															
		10-B6,D 10-B8,R 10-C2,D 10-C4,D 10-C5,L 10-C6,D 10-C6,D 10-C8,R															
		10-D2,D 10-D5,D 10-D5,D 10-D6,D 10-D6,D 10-D8,R 12-C2,L 13-A8,D															
		13-B8,D															
BA00 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R															
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R															
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA01 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R															
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R															
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA02 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R															
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R															
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA03 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R															
		4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R															
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA04 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R															
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA05 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R															
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA06 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R															
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA07 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R															
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA08 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R															
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA09 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R															
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R															
BA10 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-C2,R 4-C2,R 4-C3,R															
		4-C4,R 4-C5,R 4-C5,R 4-C6,R 4-C7,R 4-C8,R															
BA11 H		3-C2,L 3-C3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R															
		4-B6,R 4-B7,R 4-B8,R 4-C2,R 4-C2,R 4-C3,R															
		4-C4,R 4-C5,R 4-C5,R 4-C6,R 4-C7,R 4-C8,R															
BUS BG4 IN H		1-A5,R <DS2>															
BUS BG4 OUT H		1-A5,L <DT2>															
BUS BG5 IN H		1-A5,R <DP2>															
BUS BG5 OUT H		1-A5,L <DR2>															
BUS BG6 IN H		1-A5,R <DM2>															
BUS BG6 OUT H		1-A5,L <DN2>															
BUS BG7 IN H		1-A5,R <DK2>															
BUS BG7 OUT H		1-A5,L <DL2>															
BUS NPG IN H		1-A5,R <CA1>															
BUS NPG OUT H		1-A5,L <CB1>															
CLK BDR H		1-A2,R 1-B6,L															
CLK BDR L		1-A1,L 3-B6,R 4-A3,R 4-A8,R 4-A8,R 5-A7,R															
CLK DIOC L		1-C4,R 1-C7,R															
CLK ENB H		1-B6,L 4-A5,R															
CLK SERDES H		1-B6,L 2-A4,R 5-C8,R															
CLR PTY L		6-A5,L 6-D7,R															
CMD OUT L		1-D3,L 2-D7,R 5-C8,R															
DATA OUT L		2-C3,L 5-C4,R															
DATA PULSE ERROR L		6-B2,R 9-D3,L															
DATA RDY H		1-A8,R 5-A7,L 5-C7,L															
DATA WORD CLK L		1-A6,L 2-D7,R 5-A7,L 5-C7,L															
DATA XMIT ERROR H		6-B1,L 6-D5,R															
DBUS 00 H		1-C7,R 1-D5,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L															
		5-B5,R 5-C5,L 6-C4,R 6-C5,L															
DBUS 01 H		1-C7,R 1-D5,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L															
		5-B5,L 5-B5,R 6-B4,R 6-C5,L															
DBUS 02 H		1-D5,R 1-D7,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L															
		5-B5,L 5-B5,R 6-B4,R 6-D5,L															
DBUS 03 H		1-D5,R 1-D7,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L															
		5-B5,L 5-B5,R 6-B4,R 6-D5,L															
DBUS 04 H		1-D5,R 1-D7,R 3-D2,R 3-D4,R 3-D5,L 3-D7,R															
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-C5,L															
DBUS 05 H		1-D5,R 1-D7,R 3-D2,R 3-D4,R 3-D5,L 3-D7,R															
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L															
DBUS 06 H		1-D5,R 1-D7,R 3-C7,R 3-D2,R 3-D4,R 3-D5,L															
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L															
DBUS 07 H		1-D5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R															
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-D5,L															
DBUS 08 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R															
		5-B6,R 5-C1,L 5-C6,L 6-D5,L															
DBUS 09 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R															
		5-B1,L 5-B6,L 5-B6,R															
DBUS 10 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R															
		5-B1,L 5-B6,L 5-B6,R															
DBUS 11 H		1-B5,R 1-D7,R 3-C2,R 3-C4,R 3-C5,L 3															

	8	7	6	5	4	3	2	1
D	LD DBAR L	1-B6,L 3-A4,R		RTCS RDY H	1-A8,R 6-A3,L 6-D5,R		XRRD2 L	9-B8,R 11-C6,L
	LD DCR L	1-C5,R 1-C6,L		RTDS CLK H	6-A6,R 6-A8,R 6-B8,R 6-D8,R 8-B2,L		XRRD3 H	9-A8,R 11-C7,R
	LD ECC L	2-B6,L 5-C4,R		RTDS DATA 1 L	6-C8,R 6-D7,L		XRRD3 L	9-A8,R 11-C6,L
	LD RTCS L	1-C6,L 6-B4,R		RTDS DATA 2 L	6-C7,L 6-C8,R		XRTCS0 H	11-B7,R 11-C3,R
	LD SERDES L	1-B6,L 5-C8,R		RTDS DATA 3 L	6-C7,L 6-C8,R		XRTCS0 L	11-B6,L 11-C3,R
	LD UBAR L	1-B6,L 3-B3,R		RTDS DATA 4 L	6-B8,R 6-C7,L		XRTCS1 H	11-C3,R 11-C7,L
	LED 1 L	1-B3,L 5-A7,R		RTDS DATA 5 L	6-B7,L 6-B8,R		XRTCS1 L	11-C3,R 11-C6,L
	LED 2 L	1-B3,L 5-A7,R		RTDS DATA 6 L	6-B7,L 6-B8,R		XRTCS2 H	11-B3,R 11-C7,R
	LED 4 L	1-B3,L 5-A7,R		RTDS DATA H	6-D8,R 8-B2,L		XRTCS2 L	11-B3,R 11-C6,L
	LED 8 L	1-B3,L 5-A7,R		RTDS H	8-B8,R 10-C4,L		XRTCS3 H	11-B3,R 11-C7,R
	LO RTCS H	8-C1,L 10-B5,R 10-D2,R		RTDS NEG H	10-D4,L		XRTCS3 L	11-B3,R 11-C6,L
	LO WCD H	7-D1,L 9-B5,R 9-D2,R		RTDS PE H	6-A3,R 6-B5,R 6-D7,L		XRTD50 H	10-D8,R 11-B7,R
	LOPRTY IN H	3-B5,L 4-B8,R		RTDS POS H	10-D4,L		XRTD50 L	10-D8,R 11-B6,L
	LOPRTY OUT H	3-B7,R 4-C7,L		RTDS RCVD H	1-A8,R 6-A5,L 6-D5,R		XRTD51 H	10-C8,R 11-B7,R
	NRZ CLK OUT H	5-A7,L 5-D8,R 7-B1,L 7-D8,R		RVCC1	1-C2,L 2-B3,D 2-D7,D 4-A3,D 4-A3,D 4-A5,R		XRTD51 L	10-C8,R 11-B6,L
	NRZ DATA IN H	5-A7,L 5-D8,R 7-A2,L			4-A8,R 5-A7,D 5-B7,D 5-B8,R 5-C4,R		XRTD52 H	10-B8,R 11-C7,R
	NRZ DATA OUT H	5-B7,L 7-C8,R		RVCC2	1-C1,L 6-A5,R 6-A6,D 6-A8,R 6-B3,R 6-B4,D		XRTD52 L	10-B8,R 11-C6,L
	ODD PRY H	1-B4,L 3-A7,R 3-B7,R			6-B4,R 6-C1,D 6-C4,R 6-C8,R 6-D2,R 6-D7,D		XRTD53 H	10-A8,R 11-C7,R
	OVERRUN H	1-A7,R 5-C7,L		RVCC3	1-C1,L 7-B8,R		XRTD53 L	10-A8,R 11-C6,L
	RAM 00 H	3-B7,R 3-D6,R 3-D7,L 4-C1,L		SD010 H	5-C3,L		XWCD0 H	11-B7,R 11-C5,R
	RAM 01 H	3-B7,R 3-D6,R 3-D7,L 4-C2,L		SD016 H	5-A7,L 5-B4,R		XWCD0 L	11-B6,L 11-C5,R
	RAM 02 H	3-A7,R 3-D6,R 3-D7,L 4-C3,L		SD016/10 H	5-A7,L 5-B8,R		XWCD1 H	11-C5,R 11-C7,R
C	RAM 03 H	3-A7,R 3-D6,R 3-D7,L 4-C3,L		SERDES ENABLE H	1-D3,L 5-B2,R 5-B8,R		XWCD1 L	11-C5,R 11-C6,L
	RAM 04 H	3-A7,R 3-D6,R 3-D7,L 4-C4,L		SERDES10 EN H	1-C2,L 5-C4,R		XWCD2 H	11-B5,R 11-C7,R
	RAM 05 H	3-A7,R 3-D6,R 3-D7,L 4-C5,L		SET IOC H	1-C3,R 1-C7,R		XWCD2 L	11-B5,R 11-C6,L
	RAM 06 H	3-A7,R 3-D6,R 3-D7,L 4-C6,L		STROBE ECC H	2-B4,L 5-B2,R 5-C4,R		XWCD3 H	11-B5,R 11-C7,R
	RAM 07 H	3-A7,R 3-C6,R 3-C7,L 4-C6,L		SWEEP FREQ H	7-B1,L 8-B2,L 8-D8,R		XWCD3 L	11-B5,R 11-C6,L
	RAM 08 H	3-A7,R 3-C6,R 3-C7,L 4-D1,L		SYNCH DET H	6-A3,R 6-B5,L			
	RAM 09 H	3-A7,R 3-C6,R 3-C7,L 4-D2,L		TRTCS0N H	10-D1,L 11-C2,L			
	RAM 10 H	3-A7,R 3-C6,R 3-C7,L 4-D3,L		TRTCS0P H	10-D1,L 11-D2,L			
	RAM 11 H	3-A7,R 3-C6,R 3-C7,L 4-D3,L		TRTCS1N H	10-C1,L 11-C2,L			
	RAM 12 H	3-A7,R 3-C6,R 3-C7,L 4-D4,L		TRTCS1P H	10-C1,L 11-C2,L			
	RAM 13 H	3-A7,R 3-B6,R 3-B7,L 4-D5,L		TRTCS2N H	10-B1,L 11-B2,L			
	RAM 14 H	3-A7,R 3-B6,R 3-B7,L 4-D6,L		TRTCS2P H	10-B1,L 11-C2,L			
	RAM 15 H	3-A7,R 3-B6,R 3-B7,L 4-D6,L		TRTCS3N H	10-A1,L 11-B2,L			
	RAM CS L	4-A4,L		TRTCS3P H	10-A1,L 11-B2,L			
	RAM PE L	1-A8,R 3-A5,L		TWCD0N H	9-D1,L 11-C4,L			
	RAM WE L	4-A4,L		TWCD0P H	9-D1,L 11-D4,L			
B	RD BUFFER L	1-B6,L 3-B6,R		TWCD1N H	9-C1,L 11-C4,L			
	RD ECC L	2-C2,L 5-C4,R		TWCD1P H	9-C1,L 11-C4,L			
	RD ECC RSDU L	1-B6,L 5-B2,R		TWCD2N H	9-B1,L 11-B4,L			
	RD MODE H	1-D3,L 2-C3,R 5-C8,R		TWCD2P H	9-B1,L 11-C4,L			
	RD RTDS L	1-C6,L 6-B5,R		TWCD3N H	9-A1,L 11-B4,L			
	RD SERDES L	1-B6,L 5-B5,R 5-B6,R 5-C8,R		TWCD3P H	9-A1,L 11-B4,L			
	READ H	3-A6,R 3-A7,R 3-B7,R 3-B7,R 4-A5,L 4-A5,R		UPROC H	3-C2,R 4-A3,L 4-A6,R 4-A8,R			
	READ L	3-A7,R 3-B7,R 4-A5,L 4-A5,R		UPROC L	2-A4,R 3-A4,R 4-A3,L 4-A6,R 4-A8,R			
	REAL TIME PULSE ERROR L	6-A2,R 10-D3,L		WCD DLY DATA H	7-C2,L			
	RECV ERROR H	1-B8,R 6-A1,L 6-D5,R		WCD NEW DATA H	7-C2,L			
	RESET L	1-C5,R 1-C7,R		WCD P1 H	7-D2,L			
	RRD H	7-A7,R 9-C4,L		WCD P2 H	7-D2,L			
	RRD NEG H	9-D4,L		WCD P2 L	7-D2,L			
	RRD POS H	9-D4,L		WCDDL1	7-C4,L			
	RSGEN CLK L	2-A5,L 5-A7,L 5-C2,R		WCDDL2	7-D4,L			
	RSGEN EN L	1-D3,L 2-B6,R		WRAP H	7-D2,L 9-C5,R 10-C5,R			
	RTCS CLK H	6-C4,R 8-B2,L 8-D8,R		WRC L	6-C2,L			
	RTCS DATA H	6-C1,L 8-A2,L 8-C8,R		WRT ECC L	2-C3,L 5-A4,R 5-B2,R 5-C4,R			
	RTCS DLY DATA H	8-C2,L		XRRD0 H	9-D8,R 11-B7,R			
	RTCS NEW DATA H	8-C2,L		XRRD0 L	9-D8,R 11-B6,L			
	RTCS P1 H	8-D3,L		XRRD1 H	9-C8,R 11-B7,R			
	RTCS P2 H	8-D3,L		XRRD1 L	9-C8,R 11-B6,L			
	RTCS P2 L	8-D3,L		XRRD2 H	9-B8,R 11-C7,R			

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CHK	CHANGE NO.	REV					
				digital DRN.		DATE 15-SEP-82	
				CHK'D.		DATE	
				FIRST USED ON OPTION MODEL: LDA		NEXT HIGHER ASSEMBLY: B-DD-M7162-0	
				BOARD LOCATION: SHEET 16 OF 16		UDA # 2	
				SIZE CODE K CS		NUMBER M7162-0-UDA2	
						REV. C	

TRAFFIC NUMBER
 REVISIONS
 REVISIONS
 REVISIONS

DRW. NO. NUMBER
BDD M7485-0
 REVISIONS
 REVISIONS
 REVISIONS

REV J
 NUMBER M7485-0-0
 CODE DD
 SIZE B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS													
				A	B	C	D	E	F	H	J						
B-DD-M7485-0-0	2		Drawing Directory	A	B	C	D	E	F	H	J						
D-UA-M7485-0-0	1		Unit Assembly	A	A	A	B	C	D	E	F						
K-PL-M7485-0-DBP	3		Parts List (23715)	A	B	C	D	E	F	H	J						
K-CS-M7485-0-1	12		Circuit Schematic	A	B	C	D	E	F	F	F						
K-CS-M7485-0-02	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-03	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-04	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-05	—		Circuit Schematic	A	B	B	B	B	—	—	—						
K-CS-M7485-0-06	—		Circuit Schematic	A	B	B	B	B	—	—	—						
K-CS-M7485-0-07	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-08	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-09	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-10	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-11	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-12	—		Circuit Schematic	A	A	A	A	A	—	—	—						
		M7485-00	UDA PR	A	A	B	C	C	DI	DI	D2						
		M7485-YA	UDA PR (WITH PROMS)	A	B	C	D	EI	FI	HI	H2						
		5015403-01	Etched Board	A	A	A	A	A	—	—	—						
K-PC-M7485-0-DBC	—		PC Data Base	A	A	A	A	A	B	B	B						

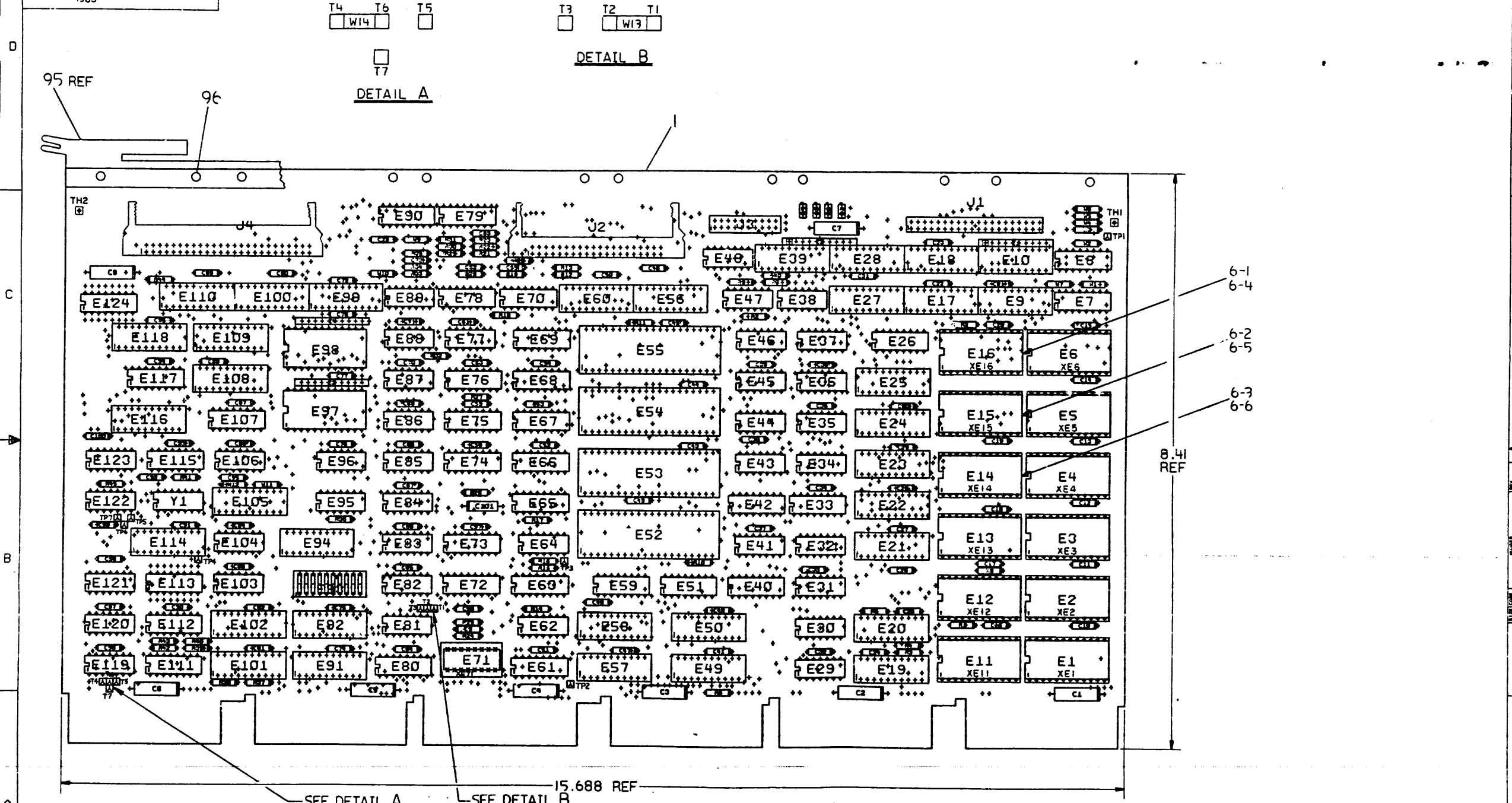
REVISION HISTORY		REV.	A	B	C	D	E	F	H	J
DATE	ECO NO.									
25 AUG 82	INIT	A								
1680	M7485- CX001	B								
1886	M7485- CX002	C								
1820	M7485- CX003	D								
1862	M7485- CX004	E								
1863	M7485- CX005	F								
1885	M7485- CX006	H								
1894	M7485- CX007	J								

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			CHK'D <i>J. Kambour</i>	DATE 24 Aug 82	
			DES. ENG. <i>C. R. Johnson</i>	DATE 8-26-82	DOCUMENT NUMBER NUMBER M7485-0-0
			RESP. ENG. <i>C. R. Johnson</i>	DATE 8-26-82	
			MFG. ENG. <i>Roy Bouillon</i>	DATE 8-26-82	
			SIZE B	CODE DD	REV. J
			SHEET 1 OF 2		

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DUA M7485-0-0 2

COMPONENT SIDE VIEW



- 6-1
- 6-4
- 6-2
- 6-5
- 6-3
- 6-6

8.41 REF

15.688 REF

SEE DETAIL A

SEE DETAIL B

NOTES: 1. DO NOT INSTALL EYELET IN POSITION (ITEM 96).
 2. DO NOT MOUNT Y1 FLUSH WITH 80. (METAL)
 3. THE FOLLOWING ARE SPARES: E39, E94, E105, E113, E116, E124, E85, R8, R44, R45, C101, Z3, Z4, W2-W5, W7, W9-W11, TP1-TP7.

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

CHANGE NO	REV	D	W	L
1983	1	COO	W18	JAN 84
1983	2	JR	14 NOV 83	J.VAGAS
1983	3	COO	17 MAR 84	J.VAGAS
1983	4	COO	17 MAR 84	J.VAGAS
1983	5	COO	17 MAR 84	J.VAGAS
1983	6	COO	17 MAR 84	J.VAGAS

ETCH REV. 81-PI

SIGNATURES		DATE	digital
DRN. Eric Somers		29 Jan 83	
CHK'D		15 Feb 83	TITLE
MECH. ENG.		11/2/81	UDA PR
PROJ. ENG.		11/2/81	
PROD.		12-11-83	
SCALE: 1.5/1	SIZE	CODE	NUMBER
SHT. 1 OF 2	0	UA	M7485-0-0
NEXT HIGHER ASSY. B-00-M7485-0-0			REV

DUA M7485-0-0 F

DUA M7485-0-0

1 of 2

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0-0-58421111 2

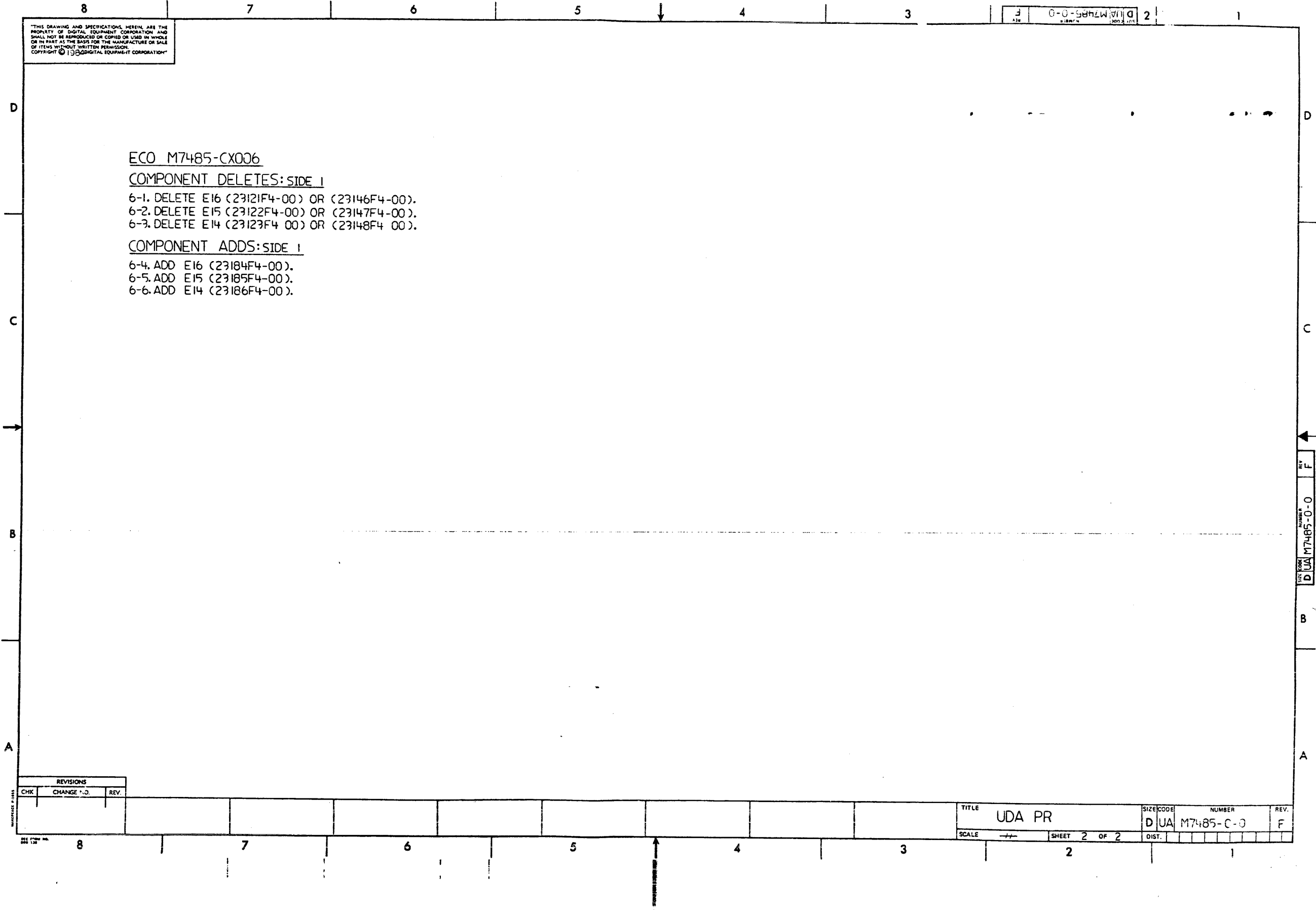
ECO M7485-CX006

COMPONENT DELETES: SIDE 1

- 6-1. DELETE E16 (23121F4-00) OR (23146F4-00).
- 6-2. DELETE E15 (23122F4-00) OR (23147F4-00).
- 6-3. DELETE E14 (23123F4-00) OR (23148F4-00).

COMPONENT ADDS: SIDE 1

- 6-4. ADD E16 (23184F4-00).
- 6-5. ADD E15 (23185F4-00).
- 6-6. ADD E14 (23186F4-00).



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE UDA PR
 SCALE --+ SHEET 2 OF 2
 SIZE CODE D UA NUMBER M7485-C-0 REV. F

DUA M7485-C-0
 2 of 2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00	YA	
						D2	H2	
1	1	B-DD-5015403-0	50-15403-01	B	DRILL & ETCH	1	1	
2	2		10-12784-00		.047 MFD 50V +80-20% CER	91	91	C10-C100
3	3		10-13466-08		680.0 MMF 50V 10% X7R CER	1	1	C9
4	4		10-16549-00		47 MFD 10V +50-10% AL EL	8	8	C1-C8
5	5		11-14136-01		LED 6.5MA 5V 1.2MCD	4	4	D1-D4
6	6		12-09838-00		SKT,IC 16PIN DIP GOLD	1	1	XE71
7	7		90-09149-00		PIN,STAKNG 0.0250DX0.345LG SQUAR	7	7	T1-T7
8	8		12-11164-06		SW,DIP 10POS/1PST 5VDC100MA F	1	1	E93
9	9		12-12965-04		PCB,HEADER 20PIN(2X05).100CC 90D	1	1	J3
10	10		12-18783-00		JUMPER 02POS(1X02).100CC	2	2	W13,W14
11	11		12-14993-00		PCB,HEADER 40POS(2X20).100CC 90D	1	1	J1
12	12		12-15006-01		*** THIS ITEM IS NOT USED ***	-	-	
13	13		12-16832-02		PCB,HEADER 40POS(2X20).100CC 90D	1	1	J2
14	14		12-16832-03		PCB,HEADER 50POS(2X25).100CC 90D	1	1	J4
15	15		13-00229-00		100.0 .25 W 5.0 % CF	8	8	R3,R5-R7,R9,R16,R27,R36
16	16		13-00316-00		470.0 .25 W 5.0 % CF	4	4	R10,R11,R17,R25
17	17		13-00365-00		1.0 K .25 W 5.0 % CF	2	2	R14,R24
18	18		13-00447-00		4.70 K .25 W 5.0 % CF	2	2	R1,R2
19	19		13-01421-00		15.0 .25 W 5.0 % CF	1	1	R41
20	20		13-01972-00		270.0 .25 W 5.0 % CF	2	2	R4,R15
21	21		13-02377-00		39.0 .25 W 5.0 % CF	7	7	R12,R19,R30-R34
22	22		13-02379-00		75.0 .25 W 5.0 % CF	6	6	R13,R18,R20,R23,R28,R29
23	23		13-05125-00		383.0 .25 W 1.0 % RN55D-F10	2	2	R38,R43
24	24		13-11422-00		178.0 .25 W 1.0 % RN55D-F10	4	4	R37,R39,R40,R42
25	25		13-12929-00		62.0 .25 W 5.0 % CF	3	3	R21,R22,R35
26	26		13-16395-00		R NETWORK 9-4.7K 2.0 % 10PIN	1	1	Z2
27	27		13-16395-02		R NETWORK 9-1.0K 2.0 % 10PIN	1	1	Z1
28	28		13-18784-01		R NETWORK MULTI-VALUE 16PIN	1	1	E71
29	29		16-17533-00		DELAY= 250NS,5TAPS 14PIN DIP	1	1	E103
30	30		16-18344-00		DELAY= 58NS,5TAPS	1	1	E88
31	31		18-11660-16		OSCILLATOR, XTAL 17.280 MHZ	1	1	Y1
32	32		19-09705-00		DEC 8881 NAND GATE-QUAD 2IN 0	1	1	E81

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: SHERI LEHMAN		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D	DATE	TITLE	UDA PR	SIZE	CODE
JV	M7485-CX005	F	[A] 00, YA [M]	SUE BOURBEAU	30-JUN-83	PARTS LIST			
RB	M7485-CX006	H	[B] [N]						
JV	M7485-CX007	J	[C] [P]	CURT RIDGEWAY	30-JUN-83				
			[D] [Q]						
			[E] [R]						
			[F] [S]	CURT RIDGEWAY	30-JUN-83				
			[H] [T]						
			[J] [V]						
			[K] [W]	ROY BOWERS	30-JUN-83				
			[L] [Y]						
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
M7485		D-UA-M7485-0-0		B-DD-M7485-0-0		Z3715J.PLS		9	

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PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						D2	H2		
33	33		19-10532-00		74S00 NAND GATE-QUAD 2IN	2	2		E31,E44
34	34		19-10534-00		74S04 INVERTER GATE-HEX 1I	2	2		E77,E89
35	35		19-10536-00		74S10 NAND GATE-TRIPLE 3IN	1	1		E87
36	36		19-10537-00		74S11 AND GATE-TRIPLE 3INP	1	1		E43
37	37		19-10542-00		74S64 A-O-I GATE 4-2-3-2	2	2		E41,E86
38	38		19-10544-00		74S74 FF-D DUAL,EDGE TRIGG	1	1		E48
39	39		19-10545-00		74S112 FF-JK DUAL,EDGE TRIG	1	1		E115
40	40		19-10546-00		74S140 NAND GATE-DUAL 4INPU	1	1		E47
41	41		19-10548-00		74S157 MUX 1 OF 2 (QUAD)	5	5		E33,E65-E68
42	42		19-10550-00		74S174 FF-D HEX	2	2		E7,E8
43	43		19-10552-00		74S194 SHIFT REG.,4BIT RIGH	2	2		E51,E59
44	44		19-10950-00		74S74 FF-D DUAL (-45 VERSI	1	1		E38
45	45		19-11116-00	DEC	8837 RECEIVER,BUS,HEX,UNI	1	1		E61
46	46		19-14987-00		8641-2 TRANSCEIVER,UNIBUS,	1	1		E80
47	47		19-11675-00		74S138 DECODER/DEMUX 3-8 LI	3	3		E70,E79,E90
48	48		19-11676-00		74S139 DECODER-DUAL TWO-INP	2	2		E40,E78
49	49		19-11712-00		74S51 AND-OR GATE-INVERT D	1	1		E46
50	50		19-11983-00		74S133 NAND GATE-POSITIVE 1	1	1		E26
51	51		19-12097-00	SN	74S182 LOOK AND CARRY GEN	1	1		E42
52	52		19-12388-00		74S02 NOR GATE-QUAD 2IN,PO	2	2		E64,E121
53	53		19-12389-00		74S08 AND GATE-QUAD 2IN,PO	2	2		E45,E83
54	54		19-12728-00		74S251 MUX 1 OF 8 TRI-STA	4	4		E69,E74-E76
55	55		19-12799-00		LS00 NAND-GATE-QUAD 2IN,P	1	1		E95
56	56		19-12803-00		LS04 INVERTER GATE,HEX	2	2		E82,E104
57	57		19-12808-00		LS11 AND GATE-TRIPLE 3IN	1	1		E62
58	58		19-12820-00		LS51 A-O-I GATE 2-WIDE 2I	1	1		E96
59	59		19-12824-00		LS74 FF-D DUAL,EDGE TRIGG	1	1		E120
60	60		19-12842-00		LS138 DECODER-THREE INPUT,	1	1		E72
61	61		19-12850-00		LS164 SHIFT REG. 8BIT SERI	1	1		E119
62	62		19-12860-00		LS259 LATCH 8BIT	1	1		E63
63	63		19-12863-00		LS273 FF-D OCTAL W/CLEAR	2	2		E99,E114
64	64		19-12864-00		LS279 LATCH,QUAD-S-R	1	1		E73
65	65		19-13040-00	DC	005 TRANSCEIVER 4BIT	4	4		E91,E92,E101,E102
66	66		19-13245-02		2901A-1 MICROPRECESSOR 4-	4	4		E52-E55
67	67		19-13340-00		74S32 OR GATE-QUAD 2IN	1	1		E37
68	68		19-13414-00		LS14 INVERTER GATE-HEX SC	1	1		E84
69	69		19-13671-00		74S374 FF-D,OCTAL,TRI STATE	3	3		E20,E22,E23
70	70		19-13939-00		LS191 COUNTER,SYNCHR. UP/D	2	2		E107,E117
71	71		19-14214-00		LS374 FF-D OCTAL EDGE TRIG	7	7		E19,E21,E24,E25,E108,E109,E118
72	72		19-14438-00	DC	013 UNIBUS INTERRUPT-BIP	2	2		E111,E112
73	73		19-14451-00		LS393 COUNTER,BINARY,4BIT	3	3		E106,E122,E123
74	74		19-15193-00		LS244 DRIVER,LINE,OCTAL,TR	2	2		E56,E60
75	75		19-15218-00		LS245 TRANSCEIVER,BUS,OCTA	2	2		E100,E110
76	76		19-15305-00	AM	2908 TRANSCEIVER,BUS,LATC	4	4		E49,E50,E57,E58
77	77		19-16680-01		2911A MICROPROGRAM SEQUENC	6	6		E9,E10,E17,E18,E27,E28
78	78		19-17956-00		LS280 PARITY GEN/CHK,9BIT,	6	6		E29,E30,E32,E34-E36
79	79		23-184F4-00	F4-01		-	1		E16
80	80		23-185F4-00	F4-01		-	1		E15
81	81		23-186F4-00	F4-01		-	1		E14
82	82		23-149F4-00	F4-01		-	1		E13

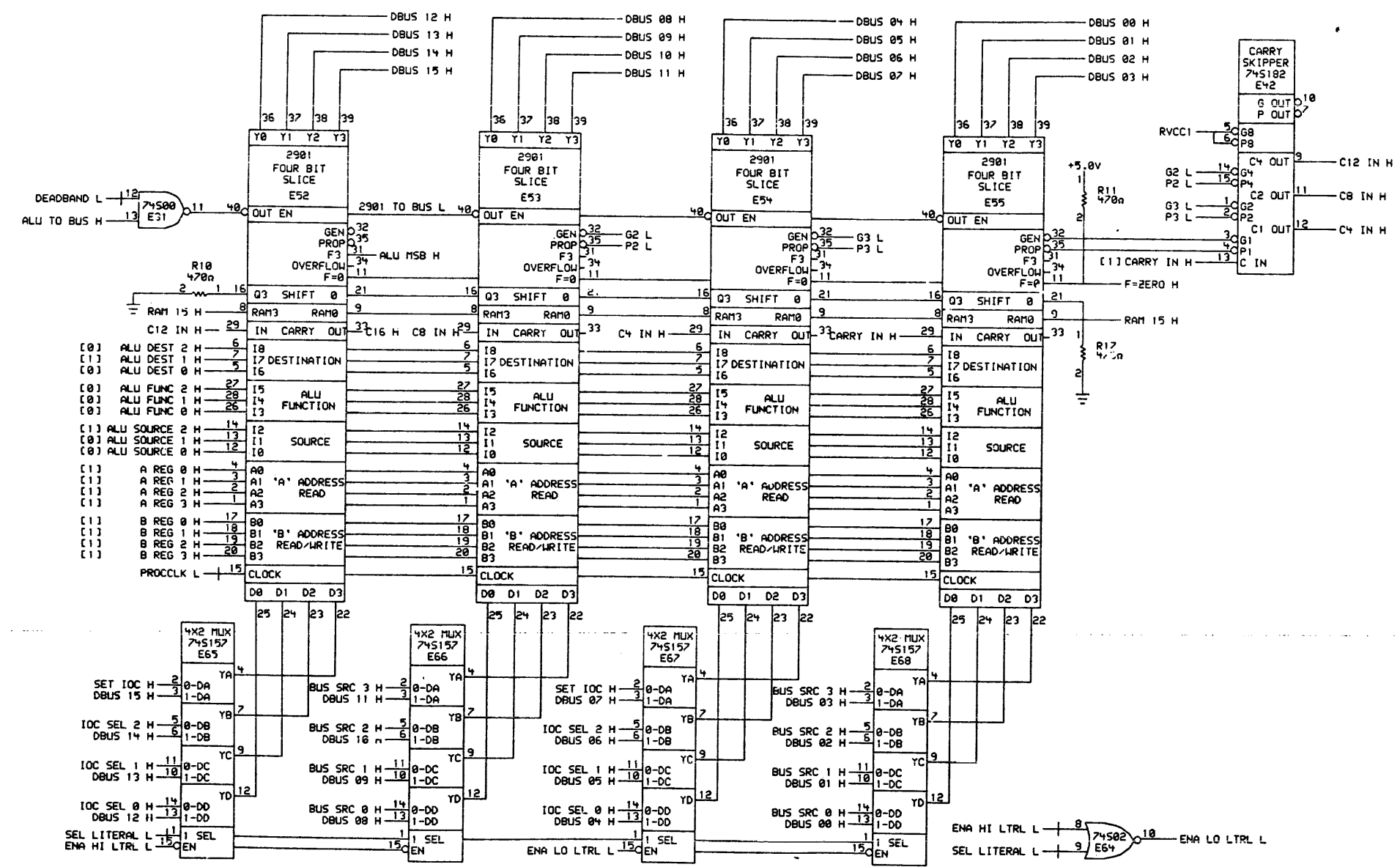
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA PR		K	PL	M7485-0-DBP	J

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						D2	H2		
83	83		23-150F4-00	F4-01		-	1		E12
84	84		23-151F4-00	F4-01		-	1		E11
85	85		23-152F4-00	F4-01		-	1		E6
86	86		23-153F4-00	F4-01		-	1		E5
87	87		23-154F4-00	F4-01		-	1		E4
88	88		23-155F4-00	F4-01		-	1		E3
89	89		23-156F4-00	F4-01		-	1		E2
90	90		23-157F4-00	F4-01		-	1		E1
91	91		23-13F4 -00	F4-01		1	1		E97
92	92		23-14F4 -00	F4-01		1	1		E98
93	93		90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	4	4		W1,W6,W8,W12
94	94		12-15006-06		SKT,IC 24PIN DIP TIN SOLD	12	12		XE1-XE6,XE11-XE16
95	95		12-16988-02		HANDLE,MODULE,HEX TWO EJECTORS	1	1		
96	96		90-00024-01		EYELET,ROLLED 0.1210DX0.192	11	11		
97	97		13-00417-00		2.20 K .25 W 5.0 Z CF	1	1		R26
98	98				*** THIS ITEM IS NOT USED ***	-	-		

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA PR		K	PL	M7485-0-DBP	J

- NOTES:
1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/4W, 5%.
 2. GATES MARKED WITH A STAR (*) MAY BE "S" OR "LS".
 3. 2901 RAM REGISTERS CONFIGURED FOR A 16 BIT ROTATION WHILE THE "Q" REGISTER IS A 16 BIT SHIFT.
 4. LITERAL BITS 0-7 CORRESPOND TO BUS SRC 0-3, IOC SEL 0-3 AND SET IOC.
 5. NUMBERS SHOWN IN BRACKETS, [], INDICATE LOGIC LEVEL FOR INSTRUCTION ZERO.

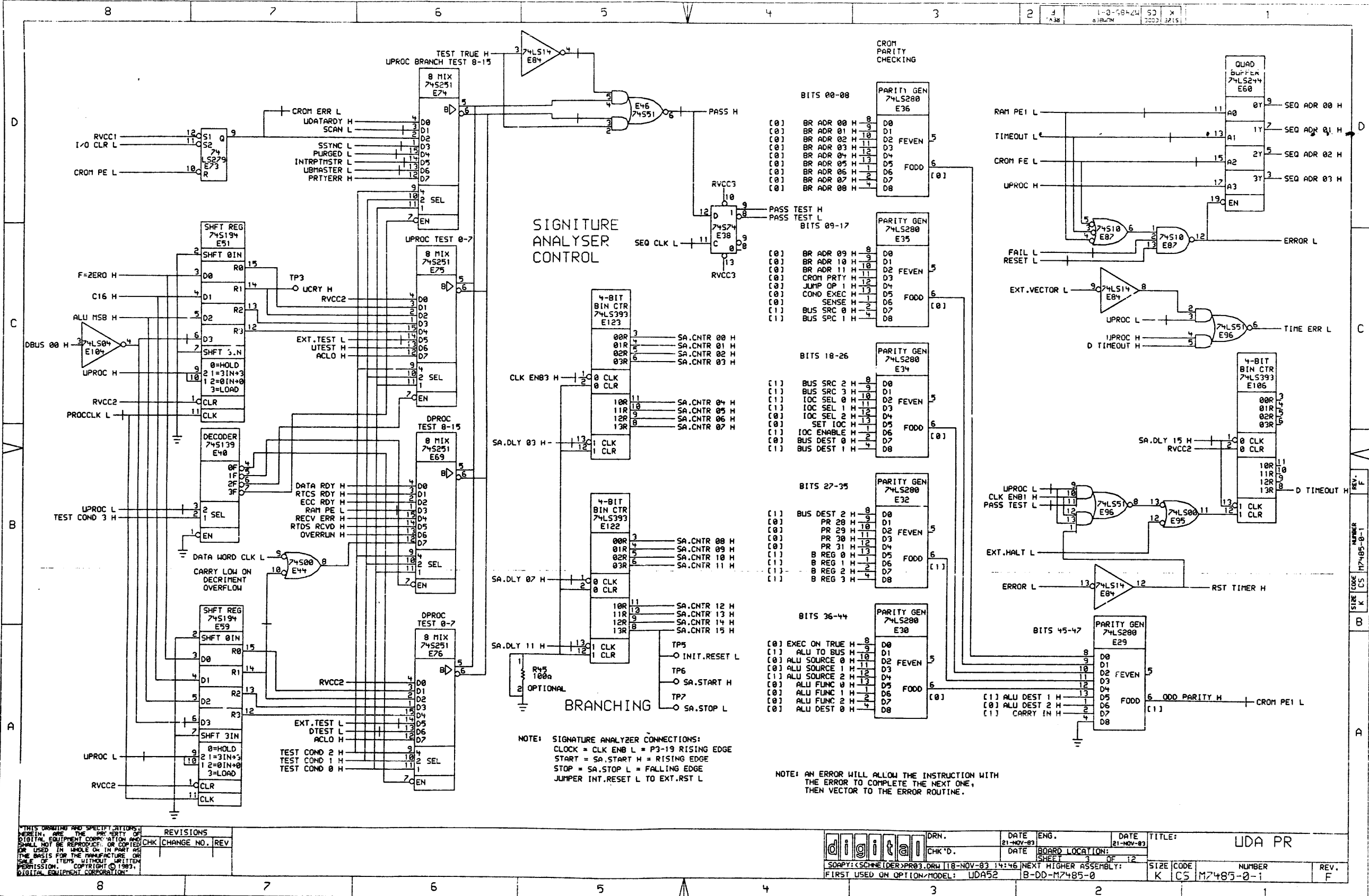


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REVISIONS	CHK	CHANGE NO.	REV
1		167	F

digital	DATE	21-NOV-83	ENG.	DATE	21-NOV-83	TITLE:	LDA PR
	CHK		DATE			BOARD LOCATION:	
SHEET		1	OF	12	SIZE CODE NUMBER		
FIRST USED ON OPTION/MODEL:		LDA52	NEXT HIGHER ASSEMBLY:		REV.		
		B-DD-M7485-0			K CS	M7485-0-1	F

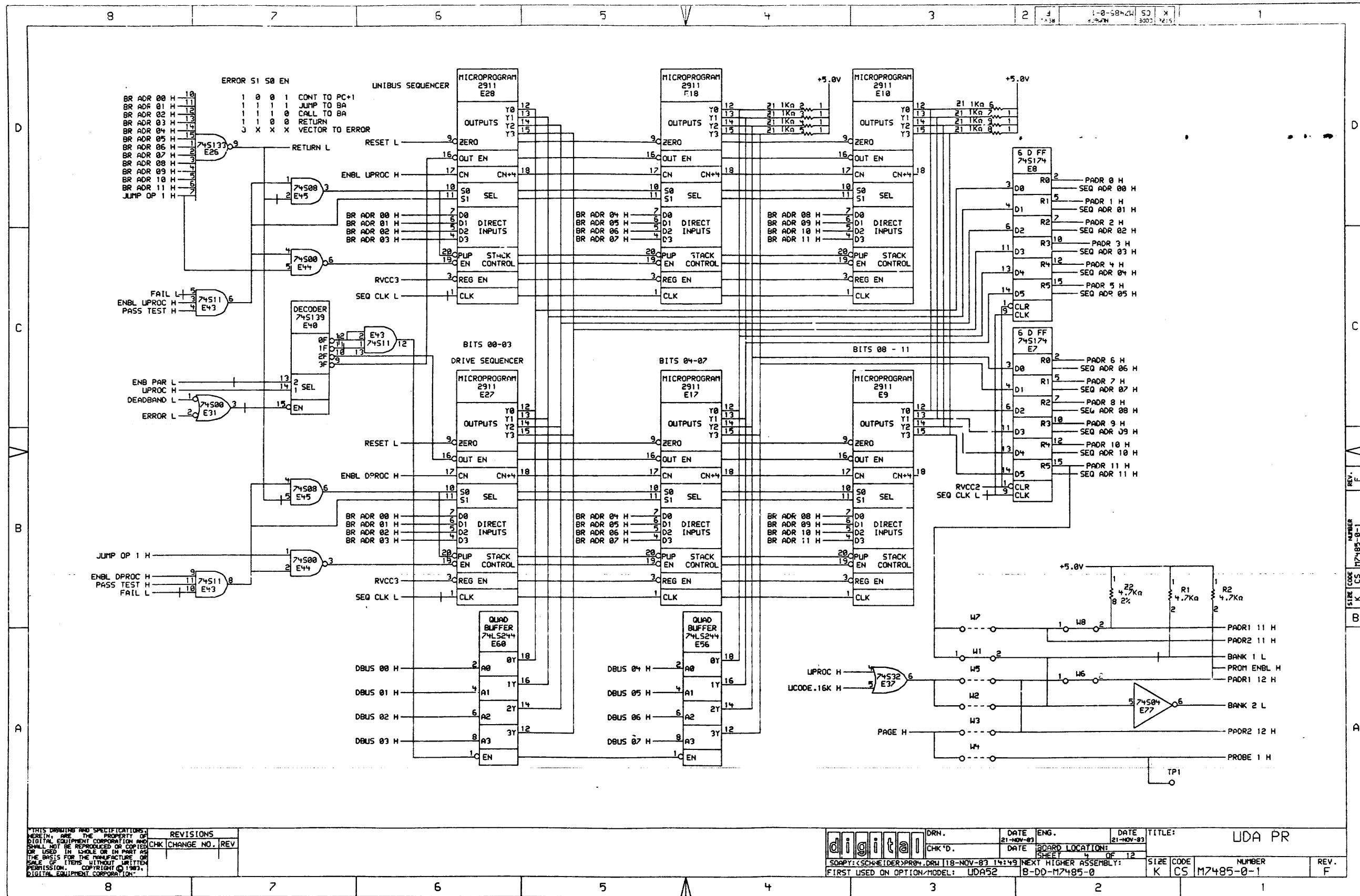


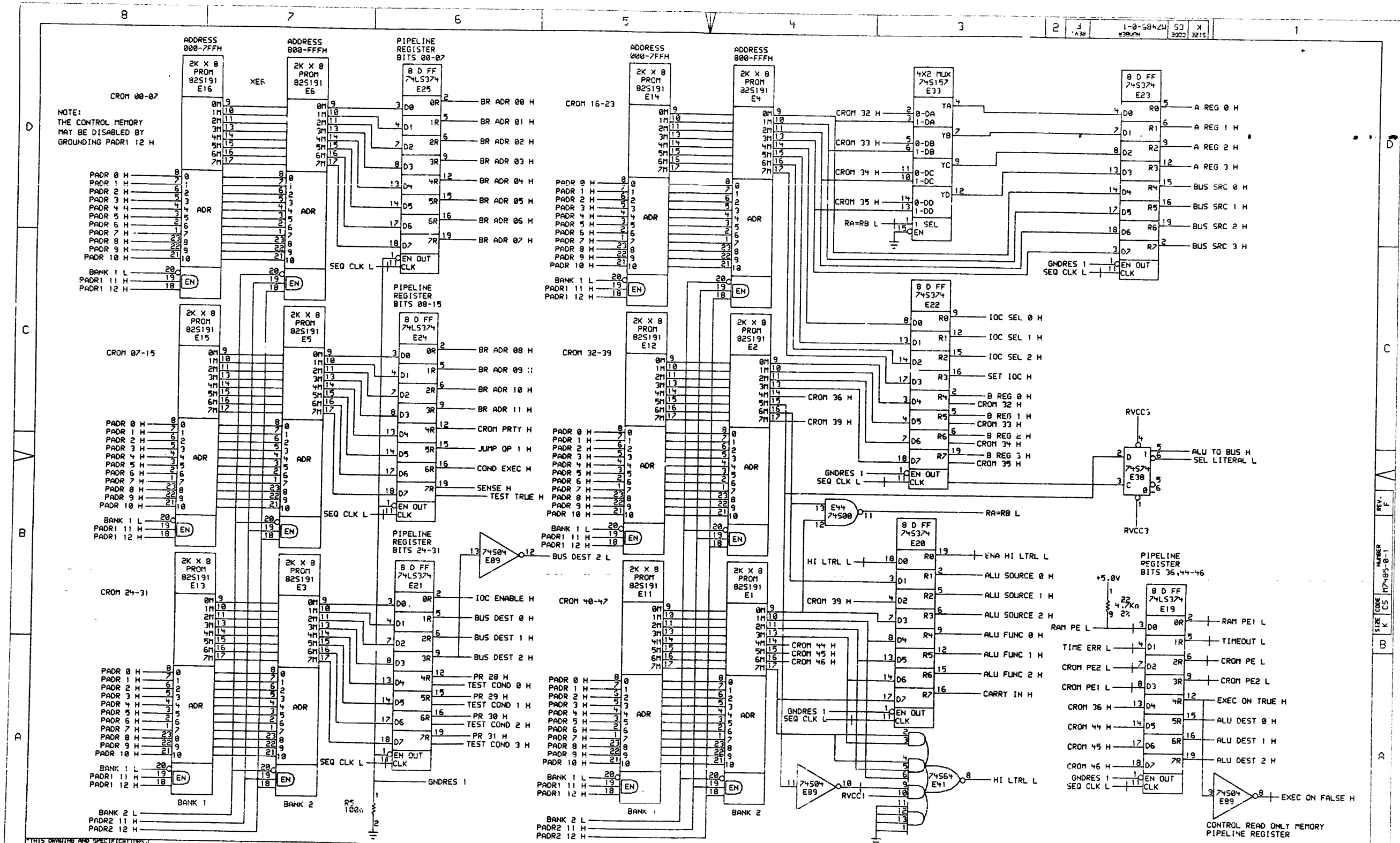
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REV.	NO.	DESCRIPTION
1	1	INITIAL RELEASE

REV.	NO.	DESCRIPTION
1	1	INITIAL RELEASE

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	21-NOV-83		21-NOV-83	LDA PR
DATE	DATE	BOARD LOCATION:	SHEET	OF
18-NOV-83	14:46	B-DD-M7485-0	3	12
FIRST USED ON OPTION/MODEL:	LDA52	NEXT HIGHER ASSEMBLY:	SIZE	CODE
			K	CS
			M7485-0-1	REV.
				F





NOTE:
THE CONTROL MEMORY
MAY BE DISABLED BY
GROUNDING PADR1 12 H

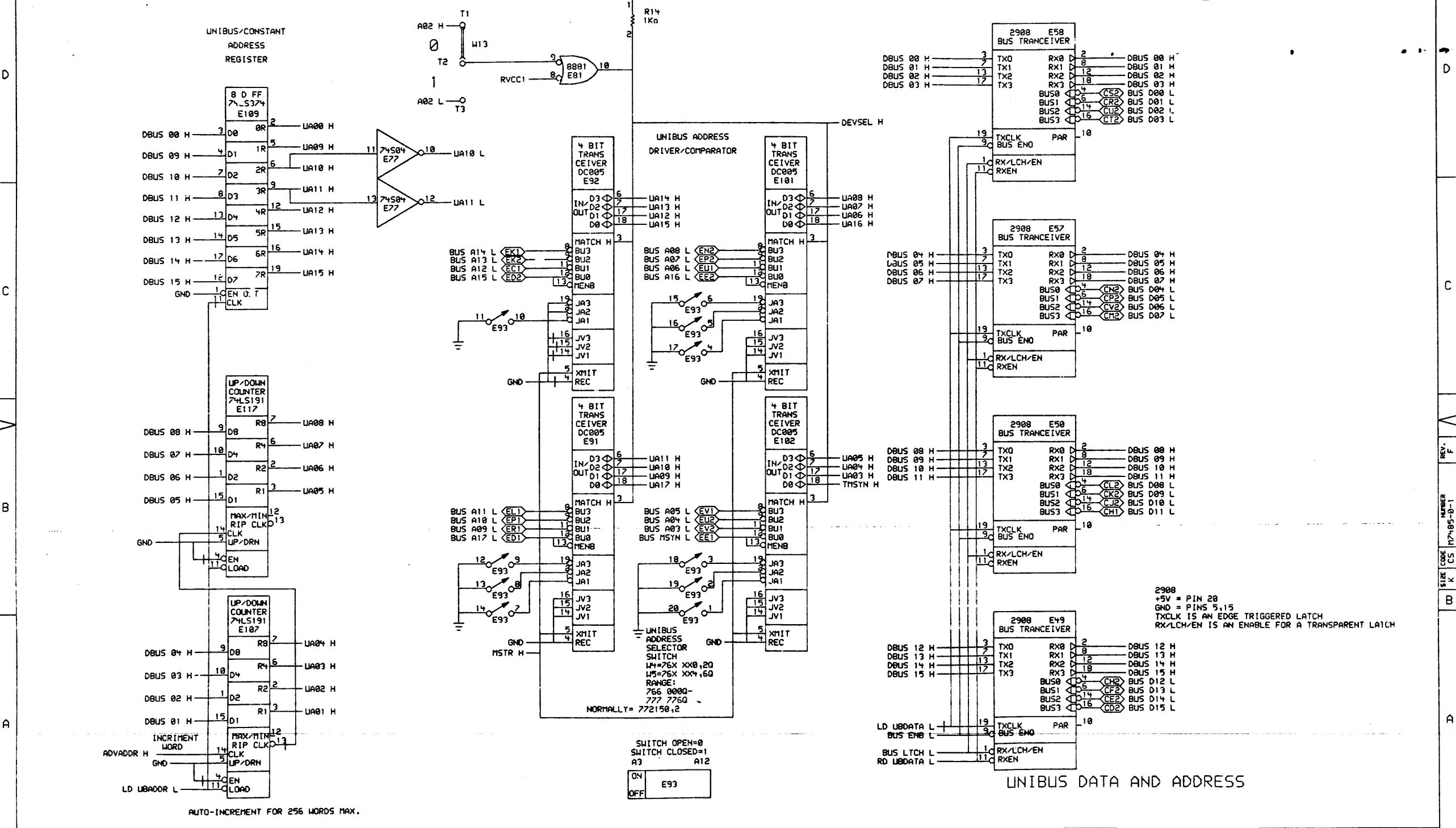
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REVISIONS
CHK CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	UDA PR
SOA:Y1:SCHEM:LDER:PR05.DRW 118-NOV-83 14:51		NEXT HIGHER ASSEMBLY:		SHEET 8 OF 12	
FIRST USED ON OPTION/MODEL: UDA52		B-DD-M7485-0		SIZE CODE	NUMBER
				K	CS M7485-0-1
				REV.	F

REV. F
NUMBER M7485-0-1
SIZE CODE K CS

NOTE: UNIBUS INTERFACE 5-14 PIN, 12-16 PIN, 10-30PIN.



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REVISIONS
CHK CHANGE NO. REV

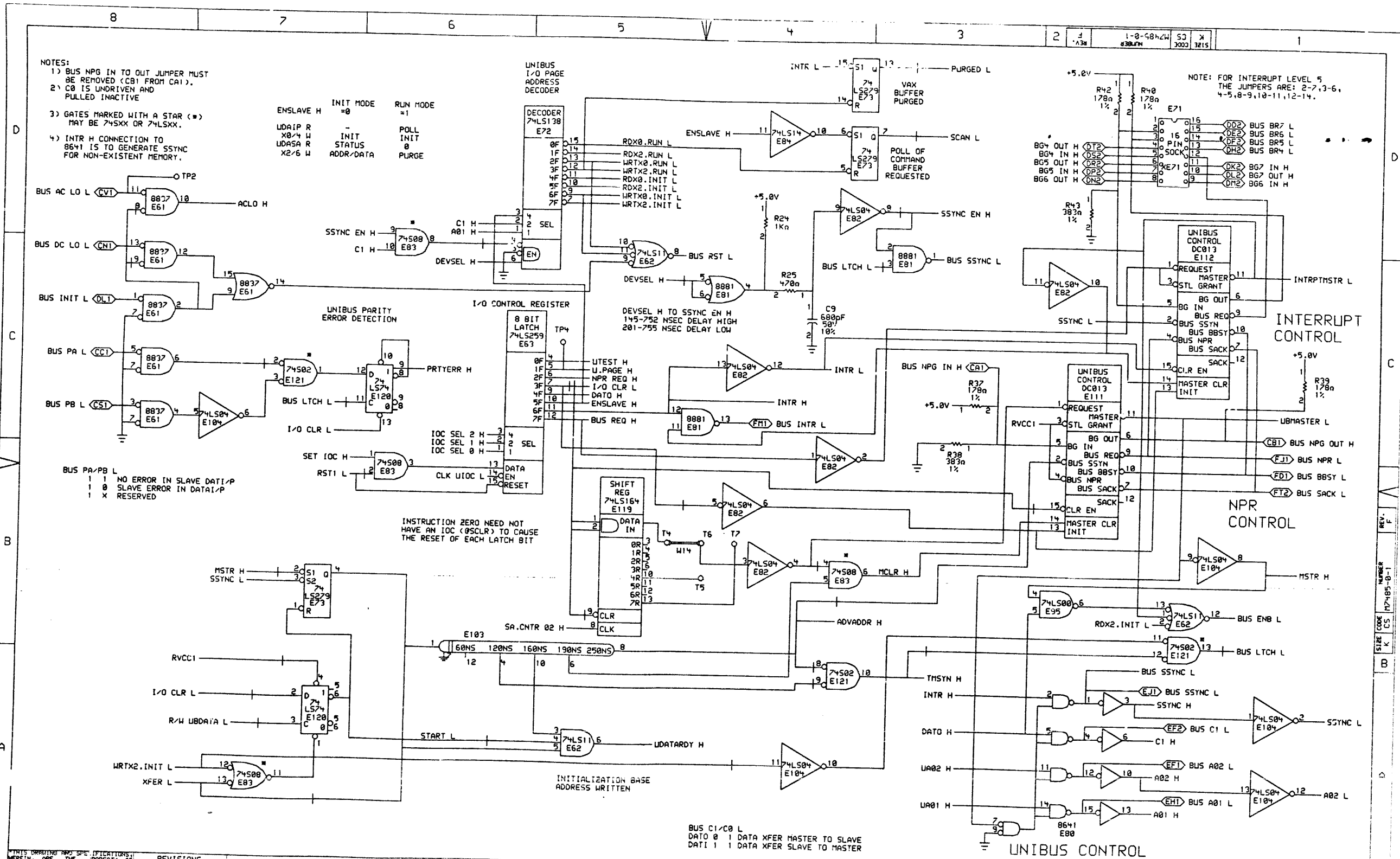
DRN.	DATE 21-NOV-83	ENG.	DATE 21-NOV-83	TITLE: UDA PR
CHK'D.	DATE	BOARD LOCATION:	SHEET 6 OF 12	SIZE CODE NUMBER REV. K CS M7485-0-1 F
COPY: <SCHNEIDER> PROG. DRU 118-NOV-83 14:53		NEXT HIGHER ASSEMBLY: B-DD-M7485-0		FIRST USED ON OPTION/MODEL: UDA52

NOTES:

- 1) BUS NPG IN TO OUT JUMPER MUST BE REMOVED (CBI FROM CA1).
- 2) C0 IS UNDRIVEN AND PULLED INACTIVE
- 3) GATES MARKED WITH A STAR (*) MAY BE 745XX OR 74LSXX.
- 4) INTR H CONNECTION TO 8641 IS TO GENERATE SSSYN FOR NON-EXISTENT MEMORY.

ENSLAVE H	INIT MODE = 0	RUN MODE = 1
UDAIP R	-	POLL INIT
X0/4 W	INIT STATUS	0
UDASA R	ADDR/DATA	PURGE
X2/6 W		

NOTE: FOR INTERRUPT LEVEL 5 THE JUMPERS ARE: 2-7,3-6, 4-5,8-9,10-11,12-14.



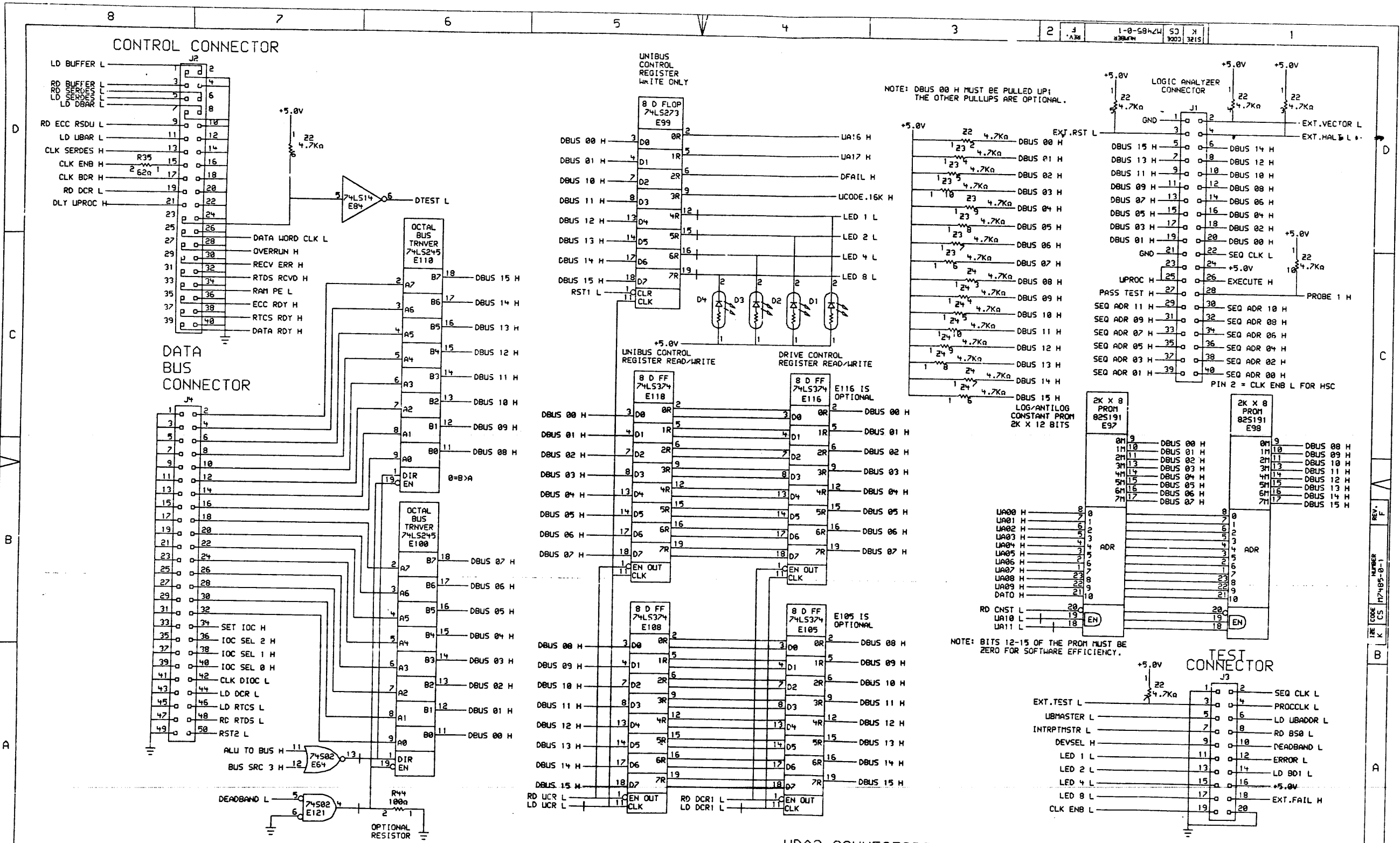
BUS PA/PB L
 1 1 NO ERROR IN SLAVE DATA/P
 1 0 SLAVE ERROR IN DATA/P
 1 X RESERVED

INSTRUCTION ZERO NEED NOT HAVE AN IOC (BSCLR) TO CAUSE THE RESET OF EACH LATCH BIT

BUS C1/C0 L
 DATO 0 1 DATA XFER MASTER TO SLAVE
 DATI 1 1 DATA XFER SLAVE TO MASTER

REV	CHG	CHANGE NO.	REV

DRN.	DATE	ENG.	DATE	TITLE:
	21-NOV-83		21-NOV-83	UDA PR
CHK'D.	DATE	BOARD LOCATION:	SHEET	OF
			7	12
FIRST USED ON OPTION/MODEL: UDA32		NEXT HIGHER ASSEMBLY: B-DD-M7485-B		SIZE CODE
				K CS
				NUMBER
				M7485-0-1
				REV
				F



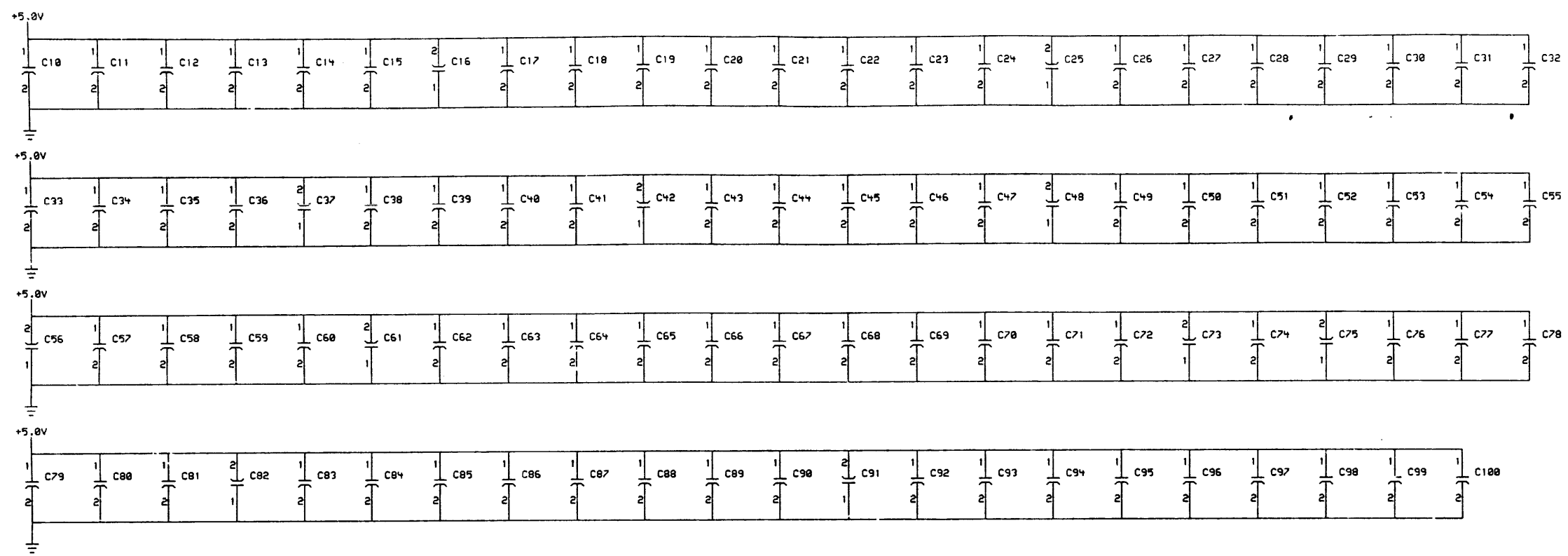
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REV.	NO.	DATE	BY	DESCRIPTION
1	1	21-NOV-83		

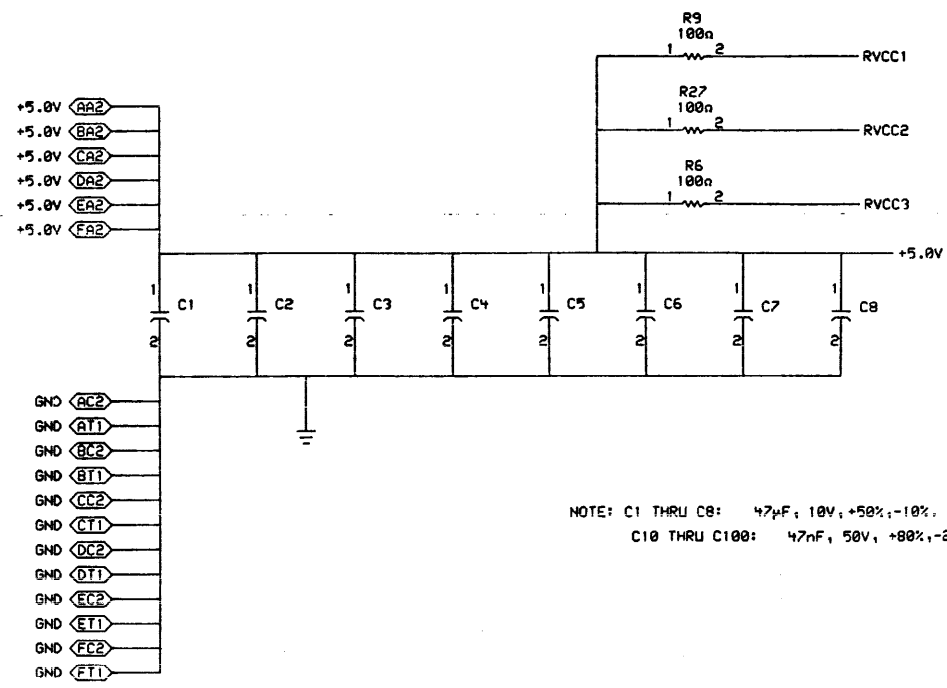
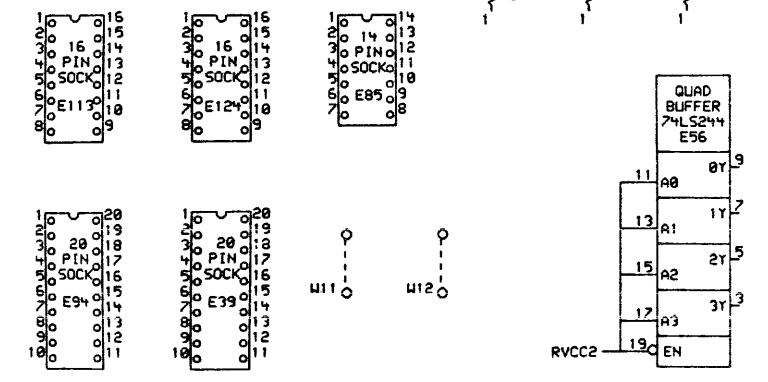
CHK	CHANGE NO.	REV.

LDA2 CONNECTORS AND CR REG

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	LDA PR
SOAPT: <SCHMIDT> PR88.DRW 118-NOV-83 14:58 NEXT HIGHER ASSEMBLY:		DATE	BOARD LOCATION:	SHEET	OF 12
FIRST USED ON OPTION/MODEL: LDA52		B-DD-M7485-0		SIZE	CODE
				K	CS
				M7485-0-1	NUMBER
					REV.
					F



SPARES



NOTE: C1 THRU C8: 47µF, 10V, +50%,-10%.
C10 THRU C100: 47nF, 50V, +80%,-20%.

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REVISIONS	CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	UDA PR
FIRST USED ON OPTION/MODEL: UDA52		BOARD LOCATION:		SHEET 9 OF 12	
NEXT HIGHER ASSEMBLY: B-DD-M7485-0		SIZE CODE:		NUMBER	
		K CS 117485-0-1		REV. F	

8 7 6 5 4 3 2 1

Vertical location (A-D) Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)

KEY:

Schematic Sheet Horizontal location (1-8)

Table listing components and their locations, including +5.0V, 2901 TO BUS L, A REG 0 H, A REG 1 H, A REG 2 H, A REG 3 H, A01 H, A02 H, A02 L, ACLO H, ADVADDR H, ALU DEST 0 H, ALU DEST 1 H, ALU DEST 2 H, ALU FUNC 0 H, ALU FUNC 1 H, ALU FUNC 2 H, ALU MSB H, ALU SOURCE 0 H, ALU SOURCE 1 H, ALU SOURCE 2 H, ALU TO BUS H, B REG 0 H, B REG 1 H, B REG 2 H, B REG 3 H, BANK 1 L, BANK 2 L, BG4 IN H, BG4 OUT H, BG5 IN H, BG5 OUT H, BG6 IN H, BG6 OUT H, BG7 IN H, BG7 OUT H, BR ADR 00 H, BR ADR 01 H, BR ADR 02 H, BR ADR 03 H, BR ADR 04 H, BR ADR 05 H, BR ADR 06 H, BR ADR 07 H, BR ADR 08 H, BR ADR 09 H, BR ADR 10 H, BR ADR 11 H, BUS A01 L, BUS A02 L.

Table listing bus components and their locations, including BUS A03 L, BUS A04 L, BUS A05 L, BUS A06 L, BUS A07 L, BUS A08 L, BUS A09 L, BUS A10 L, BUS A11 L, BUS A12 L, BUS A13 L, BUS A14 L, BUS A15 L, BUS A16 L, BUS A17 L, BUS AC LO L, BUS B05 L, BUS BR4 L, BUS BR5 L, BUS BR6 L, BUS BR7 L, BUS C1 L, BUS D00 L, BUS D01 L, BUS D02 L, BUS D03 L, BUS D04 L, BUS D05 L, BUS D06 L, BUS D07 L, BUS D08 L, BUS D09 L, BUS D10 L, BUS D11 L, BUS D12 L, BUS D13 L, BUS D14 L, BUS D15 L, BUS DC LO L, BUS DEST 0 H, BUS DEST 1 H, BUS DEST 2 H, BUS DEST 2 L, BUS ENB L, BUS INIT L, BUS INTR L, BUS LTCH L, BUS MSYN L, BUS NPG IN H, BUS NPG OUT H, BUS NPR L, BUS PA L, BUS PB L, BUS REQ H, BUS RST L, BUS SACK L, BUS SRC 0 H, BUS SRC 1 H, BUS SRC 2 H, BUS SRC 3 H, BUS SSYNC L.

Table listing bus components and their locations, including C1 H, C12 IN H, C16 H, C4 IN H, C8 IN H, CARRY IN H, CLK BDR H, CLK DI0C L, CLK ENB H, CLK ENB L, CLK ENB1 H, CLK ENB2 H, CLK ENB3 H, CLK ENB5 H, CLK SERDES H, CLK UI0C L, COND EXEC H, CROM 32 H, CROM 33 H, CROM 34 H, CROM 35 H, CROM 36 H, CROM 39 H, CROM 44 H, CROM 45 H, CROM 46 H, CROM ERR L, CROM PE L, CROM PE1 L, CROM PE2 L, CROM PRTY H, D TIMEOUT H, DATA RDY H, DATA WORD CLK L, DATO H, DBUS 01 H, DBUS 02 H, DBUS 03 H, DBUS 04 H, DBUS 05 H, DBUS 06 H, DBUS 07 H, DBUS 08 H, DBUS 09 H, DBUS 10 H, DBUS 11 H, DBUS 12 H.

D C B A

D C B A

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REVISIONS table with columns: CHK, CHANGE NO., REV.

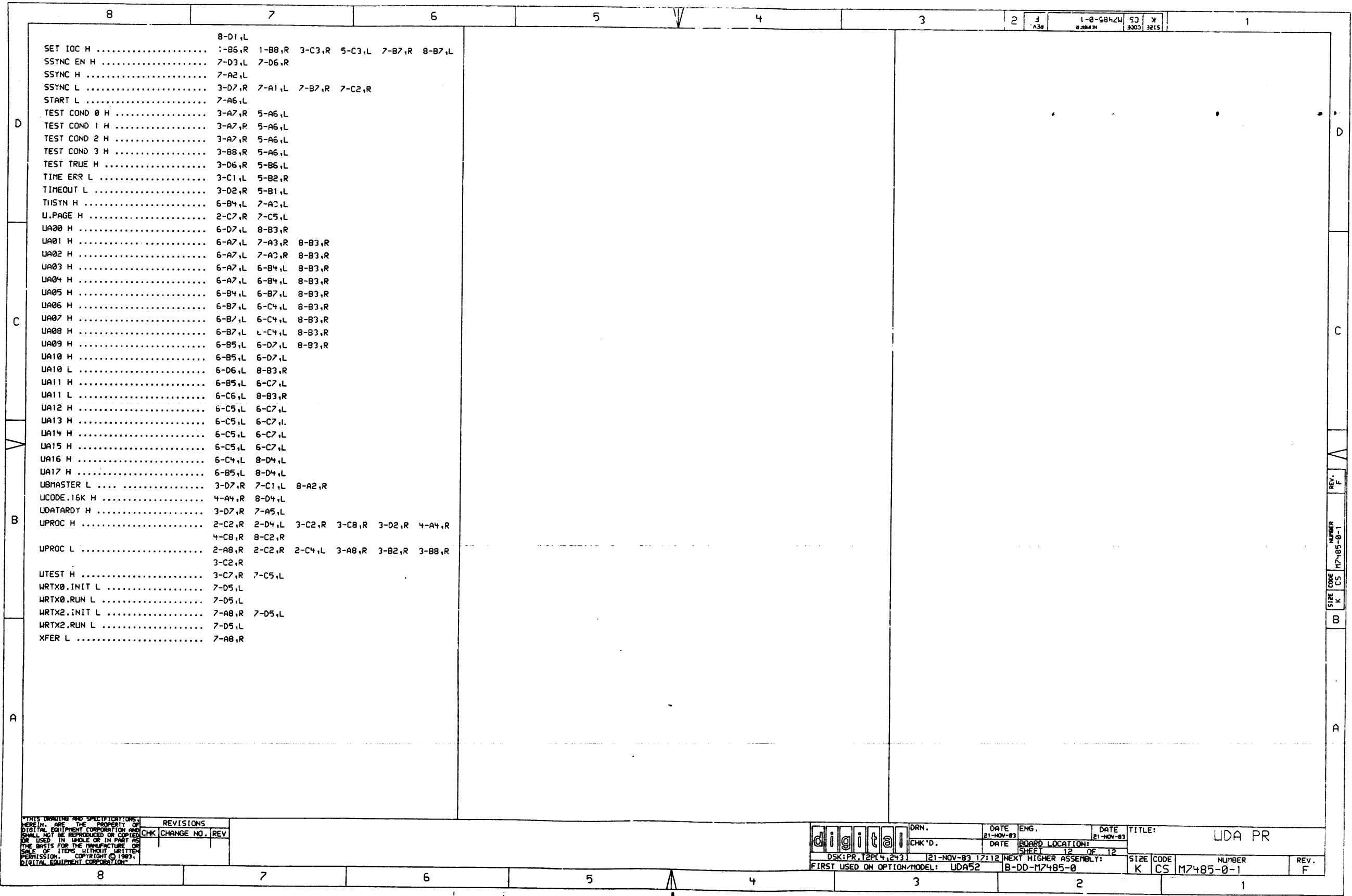
digital DRN. DATE 21-NOV-83

DATE 21-NOV-83 BOARD LOCATION: SHEET 10 OF 12

TITLE: LUDA PR SIZE CODE K CS NUMBER M7485-0-1 REV. F

8 7 6 5 4 3 2 1

	8	7	6	5	4	3	2	1
DBUS 13 H	1-A8,R	1-D7,L	6-A2,L	6-A3,R	6-C8,R	8-A4,L		
DBUS 14 H	1-A8,R	1-D7,L	6-A2,L	6-A3,R	6-C8,R	8-A4,L		
DBUS 15 H	1-B8,R	1-D7,L	6-A2,L	6-A3,R	6-C8,R	8-A4,L		
DEADBAND L	1-C8,R	2-C2,L	4-C8,R	8-A1,L	8-A7,R			
DEVSEL H	6-D4,L	7-C5,R	7-C6,R	8-A2,R				
DFAIL H	2-A8,R	8-D4,L						
DLY UPROC H	2-D3,L	8-D8,R						
DTEST L	1-A7,R	8-D6,L						
E47(1)	2-B5,R							
E47(3)	2-C5,R							
ECC RDY H	3-B7,R	8-C7,L						
ENA HI LTRL L	1-A4,R	1-A8,R	5-B3,L					
ENA LO LTRL L	1-A3,L	1-A6,R						
ENB PAR L	2-B2,L	4-C8,R						
ENBL DPROC H	2-C4,L	4-B6,R	4-B8,R					
ENBL UPROC H	2-C4,L	4-C8,R	4-D6,R					
ENSLAVE H	7-C5,L	7-D4,R						
ERROR L	3-B2,R	3-C1,L	4-C8,R	8-A1,L				
EXEC ON FALSE H	2-A6,R	5-A1,L						
EXEC ON TRUE H	2-B6,R	3-A3,R	5-A1,L					
EXECUTE H	2-P5,L	8-C1,L						
EXT.FAIL H	2-A8,R	8-A1,L						
EXT.HALT L	2-C8,R	3-B2,R	8-D1,L					
EXT.RST L	2-C7,R	8-D2,R						
EXT.TEST L	3-A7,R	3-C7,R	8-A2,R					
EXT.VECTOR L	3-C2,R	8-D1,L						
F=ZERO H	1-C3,L	3-C8,R						
FAIL L	2-A6,L	3-C2,R	4-B8,R	4-C8,R				
G2 L	1-C6,L	1-D3,R						
G3 L	1-C3,R	1-C5,L						
GND	2-B3,R	2-C3,R	6-A5,R	6-A6,R	6-A8,R	6-B8,R		
	6-C5,R	6-C6,R	6-C8,R	8-D2,R	8-D2,R	9-A4,R	<AC2>	
	9-A4,R	<AT1>	9-A4,R	<BC2>	9-A4,R	<BT1>	9-A4,R	<CC2>
	9-A4,R	<CT1>	9-A4,R	<DC2>	9-A4,R	<DT1>	9-A4,R	<EC2>
	9-A4,R	<ET1>	9-A4,R	<FC2>	9-A4,R	<FT1>		
GNDRS 1	5-A2,R	5-A4,R	5-A6,L	5-B4,R	5-C2,R			
HI LTRL L	5-A3,L	5-B4,R						
I/O CLR L	3-D8,R	7-A7,R	7-C5,L	7-C7,R				
INTR H	7-A3,R	7-C4,L						
INTR L	7-C4,L	7-D4,R						
INTRPTMSTR L	3-D7,R	7-C1,L	8-A2,R					
IOC ENABLE H	2-B4,R	3-B3,R	5-B6,L					
IOC SEL 0 H	1-A6,R	1-A8,R	3-C3,R	5-C3,L	7-C6,R	8-A7,L		
IOC SEL 1 H	1-A6,R	1-A8,R	3-C3,R	5-C3,L	7-C6,R	8-A7,L		
IOC SEL 2 H	1-B6,R	1-B8,R	3-C3,R	5-C3,L	7-C6,R	8-B7,L		
JUMP OP 1 H	3-C3,R	4-B8,R	4-D8,R	5-B6,L				
LD BDI L	2-C2,L	8-A1,L						
LD BUFFER L	2-C2,L	8-D8,R						
LD DEAR L	2-A2,L	8-D8,R						
LD DCR L	2-A2,L	8-A7,L						
LD DCR1 L	2-A2,L	8-A4,R						
LD RTCS L	2-A2,L	8-A7,L						
LD SERDES L	2-A2,L	8-D8,R						
LD UBADDR L	2-A2,L	6-A8,R	8-A1,L					
LD UBAR L	2-A2,L	8-D8,R						
LD UBDATA L	2-A2,L	2-A6,R	6-A3,R					
LD UCR L	2-A2,L	8-A5,R						
LED 1 L	8-A2,R	8-D4,L						
LED 2 L					8-A2,R	8-D4,L		
LED 4 L					8-A2,R	8-C4,L		
LED 8 L					8-A2,R	8-C4,L		
MCLR H					7-B3,L			
MSTR H					6-A6,R	7-B1,L	7-B7,R	
NPR REQ H					7-C5,L			
ODD PARITY H					3-A2,L			
OVERRUN H					3-B7,R	8-C7,L		
P2 L					1-C6,L	1-D3,R		
P3 L					1-C3,R	1-C5,L		
PADR 0 H					4-D2,L	5-A5,R	5-A8,R	5-C5,R
					5-D8,R			5-D5,R
PADR 1 H					4-D2,L	5-A5,R	5-A8,R	5-C5,R
					5-D8,R			5-D5,R
PADR 10 H					4-B2,L	5-A5,R	5-A8,R	5-B5,R
					5-C8,R			5-C5,R
PADR 11 H					4-B2,L			
PADR 2 H					4-D2,L	5-A5,R	5-A8,R	5-B5,R
					5-D8,R			5-D5,R
PADR 3 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-D8,R			5-D5,R
PADR 4 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-D8,R			5-D5,R
PADR 5 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-D8,R			5-D5,R
PADR 6 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-D8,R			5-D5,R
PADR 7 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-D8,R			5-D5,R
PADR 8 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-C8,R			5-C5,R
PADR 9 H					4-C2,L	5-A5,R	5-A8,R	5-B5,R
					5-C8,R			5-C5,R
PADR1 11 H					4-B1,L	5-A5,R	5-A8,R	5-B5,R
					5-C8,R			5-C5,R
PADR1 12 H					4-A1,L	5-A5,R	5-A8,R	5-B5,R
					5-C8,R			5-C5,R
PADR2 11 H					4-A1,L	5-A5,R	5-A8,R	
PADR2 12 H					4-A1,L	5-A5,R	5-A8,R	
PAGE H					2-C6,L	4-A3,R		
PASS H					3-D4,L			
PASS TEST H					2-B6,R	3-D4,L	4-B8,R	4-C8,R
					3-B2,R	3-D4,L		8-C2,R
PASS TEST L					2-B6,R	3-B2,R	3-D4,L	
PR 28 H					3-B3,R	5-A6,L		
PR 29 H					3-B3,R	5-A6,L		
PR 30 H					3-B3,R	5-A6,L		
PR 31 H					3-B3,R	5-A6,L		
PROBE 1 H					4-A1,L	8-C1,L		
PROCLK L					1-B7,R	2-A6,R	2-B2,R	2-C4,L
					4-A1,L			3-C8,R
PROM ENBL H					4-A1,L			8-A1,L
PRTYERR H					3-D7,R	7-C6,L		
PURGED L					3-D7,R	7-D3,L		
R/W UBDATA L					2-A5,L	7-A7,R		
RA=RB L					5-B3,L	5-D3,R		
RAM 15 H					1-C3,L	1-C7,R		
RAM PE L					3-B7,R	5-B2,R	8-C7,L	
RAM PEI L					3-D2,R	5-B1,L		
RD B50 L					2-D2,L	8-A1,L		
RD BUFFER L					2-D2,L	8-D8,R		
RD CNST L					2-D2,L	8-B3,R		
RD DCR L					2-C1,L	8-D8,R		
RD DCR1 L					2-C1,L	8-D8,R		
RD DCR1 L					2-C1,L	8-A4,R		
RD ECC RSDU L					2-D2,L	8-D8,R		
RD RTDS L					2-D2,L	8-A7,L		
RD SERDES L					2-D2,L	8-D8,R		
RD UBDATA L					2-A6,R	2-D2,L	6-A3,R	
RD UCR L					2-D1,L	8-A5,R		
RDX0.INIT L					7-D5,L			
RDX0.RUN L					7-D5,L			
RDX2.INIT L					7-B2,R	7-D5,L		
RDX2.RUN L					7-D5,L			
RECV EPR H					3-B7,R	8-C7,L		
RESET L					2-A6,L	3-C2,R	4-B6,R	4-D6,R
RETURN L					4-D7,L			
RST TIMER H					3-B1,L			
RST1 L					2-C6,L	2-C7,R	7-B7,R	8-C5,R
RST2 L					2-C6,L	2-C7,R	8-A7,L	
RTCS RDY H					3-B7,R	8-C7,L		
RTDS RVD H					3-B7,R	8-C7,L		
RVCC1					1-D3,R	2-C5,R	2-C6,D	2-D4,L
					5-A4,R	6-D6,R	7-A7,R	7-C3,R
					3-A7,R	3-A8,R	3-B1,R	3-C7,R
					9-A5,R	9-A6,R	9-B1,L	9-B3,R
					3-C4,D	3-D4,D	4-B6,R	4-C6,R
					9-B1,L		5-B2,D	5-C2,D
RVCC2					3-C5,L			
					3-C5,L			
SA.CNTR 00 H					3-C5,L	7-B5,R		
SA.CNTR 01 H					2-C7,R	3-C5,L		
SA.CNTR 02 H					3-C5,L			
SA.CNTR 03 H					3-C5,L			
SA.CNTR 04 H					3-C5,L			
SA.CNTR 05 H					3-C5,L			
SA.CNTR 06 H					3-C5,L			
SA.CNTR 07 H					2-B7,R	3-C5,L		
SA.CNTR 08 H					3-B5,L			
SA.CNTR 09 H					3-B5,L			
SA.CNTR 10 H					2-B7,R	3-B5,L		
SA.CNTR 11 H					3-B5,L			
SA.CNTR 12 H					2-B7,R	3-B5,L		
SA.CNTR 13 H					3-B5,L			
SA.CNTR 14 H					3-B5,L			
SA.CNTR 15 H					2-B7,R	3-A5,L		
SA.DLY 03 H					2-C6,L	3-B5,R		
SA.DLY 07 H					2-B6,L	3-B5,R		
SA.DLY 11 H					2-B6,L	3-A5,R		
SA.DLY 15 H					2-B6,L	3-B1,R		
SCAN L					3-D7,R	7-D3,L		
SEL LITERAL L					1-A4,R	1-A8,R	5-B2,L	
SENSE H					3-C3,R	5-B6,L		
SEQ ADR 00 H					3-D1,L	4-D2,L	8-C1,L	
SEQ ADR 01 H					3-D1,L	4-D2,L	8-C2,R	
SEQ ADR 02 H					3-D1,L	4-C2,L	8-C1,L	
SEQ ADR 03 H					3-D1,L	4-C2,L	8-C2,R	
SEQ ADR 04 H								



SET IOC H	8-D1,L						
SSYNC EN H	1-B6,R	1-B8,R	3-C3,R	5-C3,L	7-B7,R	8-B7,L	
SSYNC H	7-D3,L	7-D6,R					
SSYNC L	7-A2,L						
START L	3-D7,R	7-A1,L	7-B7,R	7-C2,R			
TEST COND 0 H	7-A6,L						
TEST COND 1 H	3-A7,R	5-A6,L					
TEST COND 2 H	3-A7,R	5-A6,L					
TEST COND 3 H	3-A7,R	5-A6,L					
TEST TRUE H	3-B8,R	5-A6,L					
TIME ERR L	3-D6,R	5-B6,L					
TIMEOUT L	3-C1,L	5-B2,R					
TIISYN H	3-D2,R	5-B1,L					
TIISYN H	6-B4,L	7-A2,L					
U.PAGE H	2-C7,R	7-C5,L					
UA00 H	6-D7,L	8-B3,R					
UA01 H	6-A7,L	7-A3,R	8-B3,R				
UA02 H	6-A7,L	7-A3,R	8-B3,R				
UA03 H	6-A7,L	6-B4,L	8-B3,R				
UA04 H	6-A7,L	6-B4,L	8-B3,R				
UA05 H	6-B4,L	6-B7,L	8-B3,R				
UA06 H	6-B7,L	6-C4,L	8-B3,R				
UA07 H	6-B7,L	6-C4,L	8-B3,R				
UA08 H	6-B7,L	6-C4,L	8-B3,R				
UA09 H	6-B5,L	6-D7,L	8-B3,R				
UA10 H	6-B5,L	6-D7,L					
UA10 L	6-D6,L	8-B3,R					
UA11 H	6-B5,L	6-C7,L					
UA11 L	6-C6,L	8-B3,R					
UA12 H	6-C5,L	6-C7,L					
UA13 H	6-C5,L	6-C7,L					
UA14 H	6-C5,L	6-C7,L					
UA15 H	6-C5,L	6-C7,L					
UA16 H	6-C4,L	8-D4,L					
UA17 H	6-B5,L	8-D4,L					
UBMASTER L	3-D7,R	7-C1,L	8-A2,R				
UCODE.16K H	4-A4,R	8-D4,L					
UDATARDY H	3-D7,R	7-A5,L					
UPROC H	2-C2,R	2-D4,L	3-C2,R	3-C8,R	3-D2,R	4-A4,R	
	4-C8,R	8-C2,R					
UPROC L	2-A8,R	2-C2,R	2-C4,L	3-A8,R	3-B2,R	3-B8,R	
	3-C2,R						
UTEST H	3-C7,R	7-C5,L					
WRTX0.INIT L	7-D5,L						
WRTX0.RUN L	7-D5,L						
WRTX2.INIT L	7-A8,R	7-D5,L					
WRTX2.RUN L	7-D5,L						
XFER L	7-A8,R						

REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	LDA PR
	DSK:PR.12PL4.243	21-NOV-83 12:12	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER
	FIRST USED ON OPTION/MODEL: LDA52	B-DD-M7485-0		K CS	M7485-0-1
				REV.	F

8 7 6 5 4 3 2 1

M7486-CX008

PART MARKING

9-5 AFTER ABOVE REWORK IS COMPLETE,
MARK MODULE REV H3

COMPONENT DELETES

- 8- 1 DELETE E40 (16-20546-01)
- 8- 2 DELETE E41 (16-20546-01)

COMPONENT ADDS

- 8- 5 ADD E40 (16-23207-01)
- 8- 6 ADD E41 (16-23207-01)
- 8- 7 ADD R800(13-00219-00) SOLDERING PIN 1 INTO
FEEDTHRU BELOW E75 PIN 6 AND PIN 2 INTO
FEEDTHRU BELOW THAT
- 8- 8 ADD MYLAR (74-29181-01) X .500 X .500 UNDER R800

WIRE ADDS - SIDE 1

- 8- 9 ADD WIRE FROM 2ND PTH HOLE BELOW E75 PIN 6 TO E76 PIN 11

PART MARKING

- 8-10 AFTER ALL REWORK IS COMPLETED MARK MODULE REV H2

ECO M7486-CX009

COMPONENT DELETES: (SIDE 1)

- 9-1 DELETE E40 (1623207-01)
- 9-2 DELETE E41 (1623207-01)

COMPONENT ADDS: (SIDE 1)

- 9-3 ADD E40 (1623779-01)
- 9-4 ADD E41 (1623779-01)

D
C
B
A

D
C
REV. J
M7486-CX008
CD

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 STORAGE AND RETRIEVAL SYSTEM
 WITHOUT PERMISSION IN WRITING
 FROM THE DIRECTOR, ARPA
 REPORT NUMBER
 CONTRACT NUMBER
 PERFORMING ORGANIZATION NAME(S)
 AUTHOR(S)
 TITLE
 DATE
 PRICE STATEMENT
 SECURITY CLASSIFICATION

ORIGINATOR'S REPORT NUMBER
 DISTRIBUTION STATEMENT
 SECURITY CLASSIFICATION
 DATE
 PRICE STATEMENT
 SECURITY CLASSIFICATION

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1 B-DD-5015402-0	50-15402-01	D	DRILL AND ETCH	1	
2	2	10-01796-00	30	MFD 25V +75-10% AL EL	1	C30
3	3	10-12784-00	.047	MFD 50V +80-20% CER	113	C2-C8,C10,C11,C13-C20,C22-C28, CONT C31-C37,C39-C43,C45-C54, CONT C57-C60,C62-C70,C73-C93, CONT C95-C101,C104-C106,C108-D111, CONT C115-C133
4	4	10-10279-00	.47	MFD 25V 20% CER	1	
5	5	10-13466-11	.22	MFD 50V +80-20% Z5U CER	3	C107,C112,C113
6	6	10-15878-00	.01	MFD 50V +80-20% CER	8	C9,C21,C29,C38,C44,C55,C61,C71
7	7	10-16549-00	47	MFD 10V +50-10% AL EL	4	C56,C72,C94,C114
8	8	11-04860-00		VZ= 3.3 5% 400 MW 1N746A	8	D1,D2,D5,D6,D9,D10,D13,D14
9	9	11-05275-00		PIV= 60 I0=300 MA -15NS	8	D3,D4,D7,D8,D11,D12,D15,D16
10	10	11-10836-00		VZ= 12.0 5% 400 MW 1N759A	1	D21
11	11	11-14136-01		LED 6.5MA 5V 1.2MCD	4	D17-D20
12	12	12-05747-00		FUSE PICO 5.0 A 125V AXIAL LEA	1	F1
13	13	12-10385-01		*** THIS ITEM IS NOT USED ***	-	
14	14	12-12965-04		PCB,HEADER 20PIN(2X05).100CC 90D	1	J2
15	15	12-14314-00		*** THIS ITEM IS NOT USED ***	-	
16	16	16-23779-01		PULSE GENERATOR 20NS ECL	2	E40,E41
17	17	12-16832-02		PCB,HEADER 40POS(2X20).100CC 90D	1	J3
18	18	12-16832-03		PCB,HEADER 50POS(2X25).100CC 90D	1	J1
19	19	12-18348-00		PCB,HEADER 32PIN(2X16).100CC 90D	1	J4
20	20	13-00202-00		47.0 .25 W 5.0 % CF	16	R19,R22,R24,R26,R41,R44,R48, CONT R50,R70,R72,R90,R92,R111,R113, CONT R122,R124
21	21	13-00247-00		120.0 .25 W 5.0 % CF	18	R35,R37,R39,R53,R63,R66,R76, CONT R79,R80,R94,R109,R110,R115, CONT R119,R120,R126,R127,R130
22	22	13-00271-00		220.0 .25 W 5.0 % CF	8	R28,R29,R57,R58,R100,R101,R132, CONT R133
23	23	13-00316-00		470.0 .25 W 5.0 % CF	12	R1,R2,R4,R5,R11,R87-R89,R129,

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A	DRN:	SUE BOURBEAU	
ENG	ECO NUMBER	REV	SECTION/VARIATION	INDEX	DATE:	09-JUL-82	DIGITAL	
---	INITIAL	A	[A]	00	[M]	CHK'D:	RON MICHAUD	
JP	M7486-CX001	B	[B]		[N]	DATE:	09-JUL-82	
JP	M7486-CX002	C	[C]		[P]	DES.ENG:	JIM PULSIPHER	
JP	M7486-CX003	D	[D]		[Q]	DATE:	09-JUL-82	
JP	M7486-CX004	E	[E]		[R]	RESP.ENG.:	JIM PULSIPHER	
JP	M7486-CX006	F	[F]		[S]	DATE:	09-JUL-82	
JV	M7486-CX007	H	[H]		[T]	SIZE:	CODE:	NUMBER:
JV	M7486-CX008	J	[J]		[V]	K	PL	M7486-0-DBP
JV	M7486-CX009	K	[K]		[W]	RELEASE DATE:	28-JAN-86	
JV	M7486-CX010	L	[L]		[Y]	RELEASE STATUS:	RELEASED	
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
M7486			D-UA-M7486-0-0		K-DD-M7486-0-0		Z3696L.PLS	
EDIT #							7	

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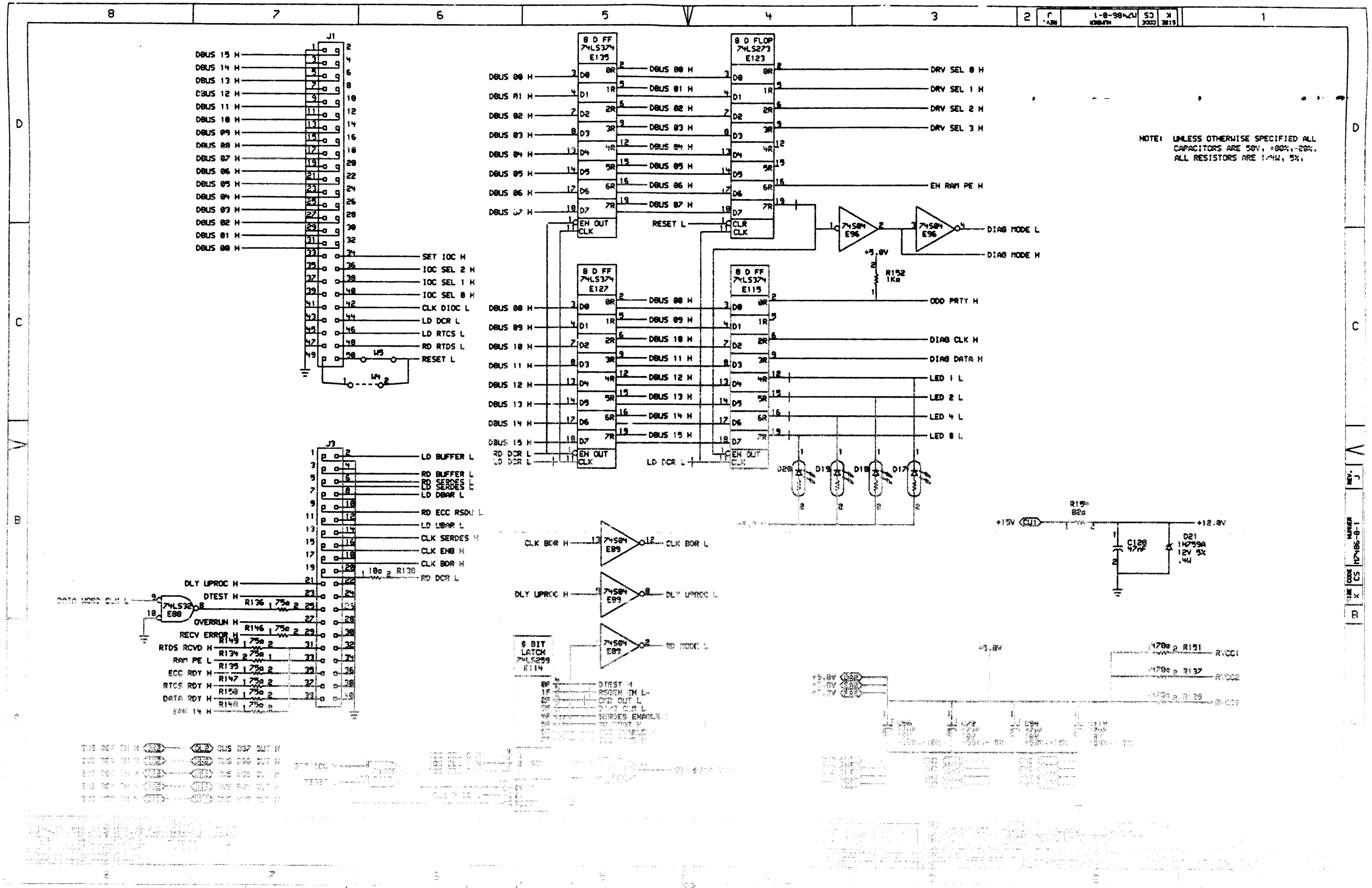
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
24	24	13-00365-00	1.0	K .25 W 5.0 % CF	1	CONT R137,R139,R151
25	25	13-00437-00	3.0	K .25 W 5.0 % CF	1	R152
26	26	13-00477-00	10.0	K .25 W 5.0 % CF	1	R153
27	27	13-01317-00	10.0	.25 W 5.0 % CF	2	R145
28	28	13-01477-00	82.0	.25 W 5.0 % CF	5	R138,R141
29	29	13-02379-00	75.0	.25 W 5.0 % CF	7	R6,R13,R17,R18,R154
30	30	13-02873-00	261.0	.25 W 1.0 % RN55D-F10	8	R134-R136,R146,R147,R149,R150
31	31	13-02887-00	130.0	.25 W 1.0 % RN55D-F10	4	R33,R34,R60-R62,R64,R83,R96
32	32	13-11522-00	200.0	.25 W 5.0 % CF	18	R7,R8,R16,R23
						R36,R40,R45,R47,R52,R75,R77,
						CONT R78,R81,R95,R102,R105,
						CONT R116-R118,R121,R128,R131
33	33	13-12114-01	R NETWORK	8-470 5.0 % 10PIN	11	Z1-Z11
34	34	13-12929-00	62.0	.25 W 5.0 % CF	8	R9,R10,R31,R32,R55,R56,R107,
						CONT R108
35	35	13-18341-01	162.0	.25 W 1.0 % RN55D-F10	8	R38,R46,R59,R65,R82,R103,R104,
						CONT R106
36	36	13-18341-02	187.0	.25 W 1.0 % RN55D-F10	16	R20,R21,R25,R27,R42,R43,R49,
						CONT R51,R71,R73,R91,R93,R112,R114,
						CONT R123,R125
37	37	13-18342-00	R NETWORK	8-56.2 8-316 16PIN	4	E11,E29,E46,E65
38	38	16-11257-01		CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2	L1,L2
39	39	16-17533-00		DELAY= 250NS,5TAPS 14PIN DIP	1	E112
40	40	16-18336-00		DELAY= 10NS	4	E20,E31,E48,E49
41	41	16-18337-00		DELAY= 18NS	2	E19,E42
42	42	16-18343-00		PULSE XFMR,RATIO 1:1:1, 80UH	8	E5,E12,E18,E30,E37,E47,E56,E66
43	43	19-10534-00	74S04	INVERTER GATE-HEX 11	2	E89,E96
44	44	19-10544-00	74S74	FF-D DUAL,EDGE TRIGG	6	E73,E76,E78,E79,E86,E116
45	45	19-10545-00	74S112	FF-JK DUAL,EDGE TRIG	1	E68
46	46	19-10956-00	74S151	MUX 1 OF 8	1	E62
47	47	19-10957-00	74S175	FF-D QUAD COMMON CLO	2	E72,E82
48	48	19-11399-00	10102	NOR GATE,QUAD 2IN	4	E8,E26,E44,E45
49	49	19-11401-00	10104	AND GATE,QUAD 2IN	1	E13
50	50	19-11404-00	10107	XOR/NOR GATE,3-2IN	1	E32
51	51	19-11414-00	10124	TTL TO ECL TRNSLTR	3	E52,E53,E58
52	52	19-11415-00	10125	ECL TO TTL TRNSLTR	2	E51,E59
53	53	19-11420-00	10174	DUAL 4 TO 1 MUX	2	E33,E39
54	54	19-11573-00	74S280	PARITY GEN/CHKR,9BIT	2	E81,E120
55	55	19-11676-00	74S139	DECODER-DUAL TWO-INP	1	E143
56	56	19-11712-00	74S51	AND-OR GATE-INVERT D	4	E80,E99,E109,E113
57	57	19-12389-00	74S08	AND GATE-QUAD 2IN,PO	1	E110
58	58	19-12801-00	LS02	NOR-GATE-QUAD 2IN	1	E100
59	59	19-12816-00	LS32	OR GATE-QUAD 2IN,POS	1	E88
60	60	19-12833-00	LS109	FF-JK DUAL,POS EDGE	1	E87
61	61	19-10548-00	74S157	MUX 1 OF 2 (QUAD)	1	
62	62	19-12848-00	LS158	MUX 1 OF 2 (QUAD)	1	E101
63	63	19-12853-00	LS175	FF-D QUAD	1	E102
64	64	19-12860-00	LS259	LATCH 8BIT	1	E114
65	65	19-12863-00	LS273	FF-D OCTAL W/CLEAR	2	E85,E123
66	66	19-12864-00	LS277	LATCH,QUAD-S-R	1	E77

SIZE	CODE	DOCUMENT NUMBER	REV

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV 00 H4	REFERENCE DESIGNATORS
67	67	19-13340-00		74S32 OR GATE-QUAD 2IN	2	E60,E69
68	68	19-13671-01		74S374 FF-D,OCTAL,TR1 STATE	8	
69	69	19-13939-00		LS191 COUNTER,SYNCHR,UP/D	2	E94,E95
70	70	19-14082-01		74S163 COUNTER,SYNCH,UP/DOW	2	E70,E71
71	71	19-14214-00		LS374 FF-D OCTAL EDGE TRIG	7	E83,E84,E115,E126,E127,E135, CONT E146
72	72	19-15193-00		LS244 DRIVER,LINE,OCTAL,TR	2	E136,E145
73	73	19-16574-00		10114 RECEIVER,LINE,TRIPLE	8	E4,E10,E17,E25,E28,E36,E55,E64
74	74	19-17043-02	DC	018 SERIALIZER/DESERIALI	2	
75	75	19-17289-00		100102 OR/NOR GATE,QUINT,2	2	E21,E38
76	76	19-17839-00		10192 DRIVER, LINE, QUAD D	8	E3,E9,E16,E24,E27,E35,E54,E63
77	77	19-17956-00		LS280 PARITY GEN/CHK,9BIT,	1	E61
78	78	19-18352-00	PS	4317 DC-DC CONVERTER	1	E1
79	79	19-18353-00		10231 FF-D, MASTER-SLAVE,	6	E22,E23,E34,E43,E50,E57
80	80	21-15102-00	DEC	DC309 NMOS CUSTOM LSI FOR	1	E144
81	81	21-18054-03		16K MOS RAM 55NS 2	2	E90,E91
82	82	21-19250-00		4KX4 STATIC RAM 55NS	16	E92,E93,E103-E105,E117-E119, CONT E128-F131,E137-E140
83	83	90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	5	W1-W3,W5,W6
84	84	12-16988-02		HANDLE,MODULE,HEX TWO EJECTORS	1	
85	85	90-00024-01		EYELET,ROLLED 0.1210DX0.192	12	
86	86	10-10274-02		1 MFD 50V +80-20% CER	1	CS00
87	87	12-16188-03		TAPE,MYLAR ADH BK 3.00"X2.50"	1	
88	88	12-16188-01		TAPE,MYLAR ADH BK 1.00"X2.00"	1	
89	89	13-00219-00		68.0 .25 W 5.0 % CF	1	R800
90	90	12-16188-02		TAPE,MYLAR ADH BK .50"X .50"	1	
91	91			*** THIS ITEM IS NOT USED ***	-	

1 GEN: 1. 1917043-00 MAY BE USED IN E124 ONLY UNTIL STOCK IS DEPLETED
 2 GEN: ONCE STOCK IS DEPLETED, USE ONLY 1917043-02

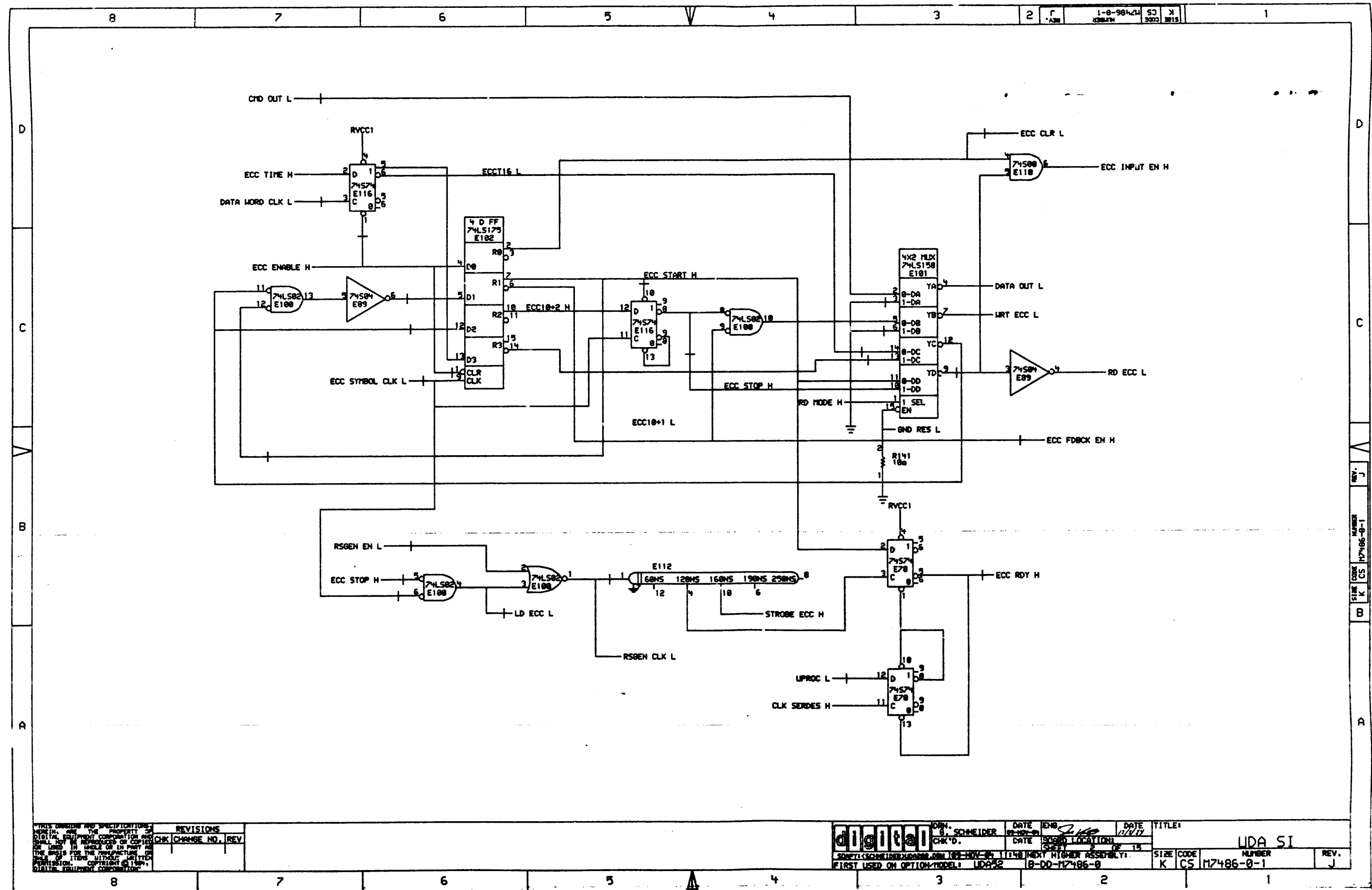
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA SI		K	PL	M7486-0-DBP	L



NOTE: UNLESS OTHERWISE SPECIFIED ALL CAPACITORS ARE 50V, +80%, -20%. ALL RESISTORS ARE 1/4W, 5%.

BUS 007 OUT H
 BUS 006 OUT H
 BUS 005 OUT H
 BUS 004 OUT H
 BUS 003 OUT H
 BUS 002 OUT H
 BUS 001 OUT H

REV. J
 107486-0-1
 CS
 107486-0-1

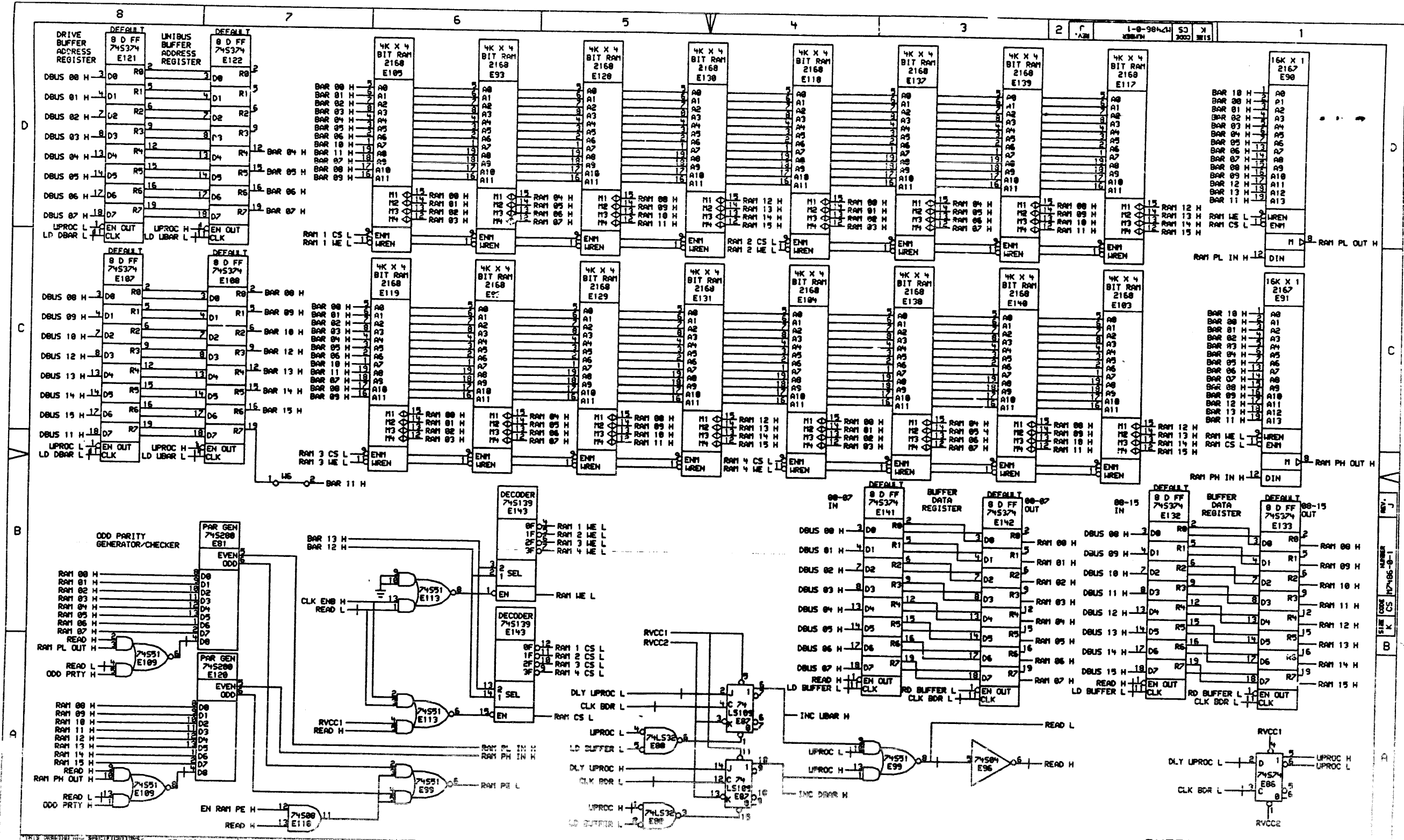


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REVISIONS	
CHK	CHANGE NO., REV.

	DON. SCHNEIDER CHK'D.	DATE 07-10-85 DATE 07-10-85	ENG J DATE 11/17/85	TITLE:
	FIRST USED ON OPTION MODEL: LDA52	1148 NEXT HIGHER ASSEMBLY:	18-00-117486-0	SIZE CODE K CS

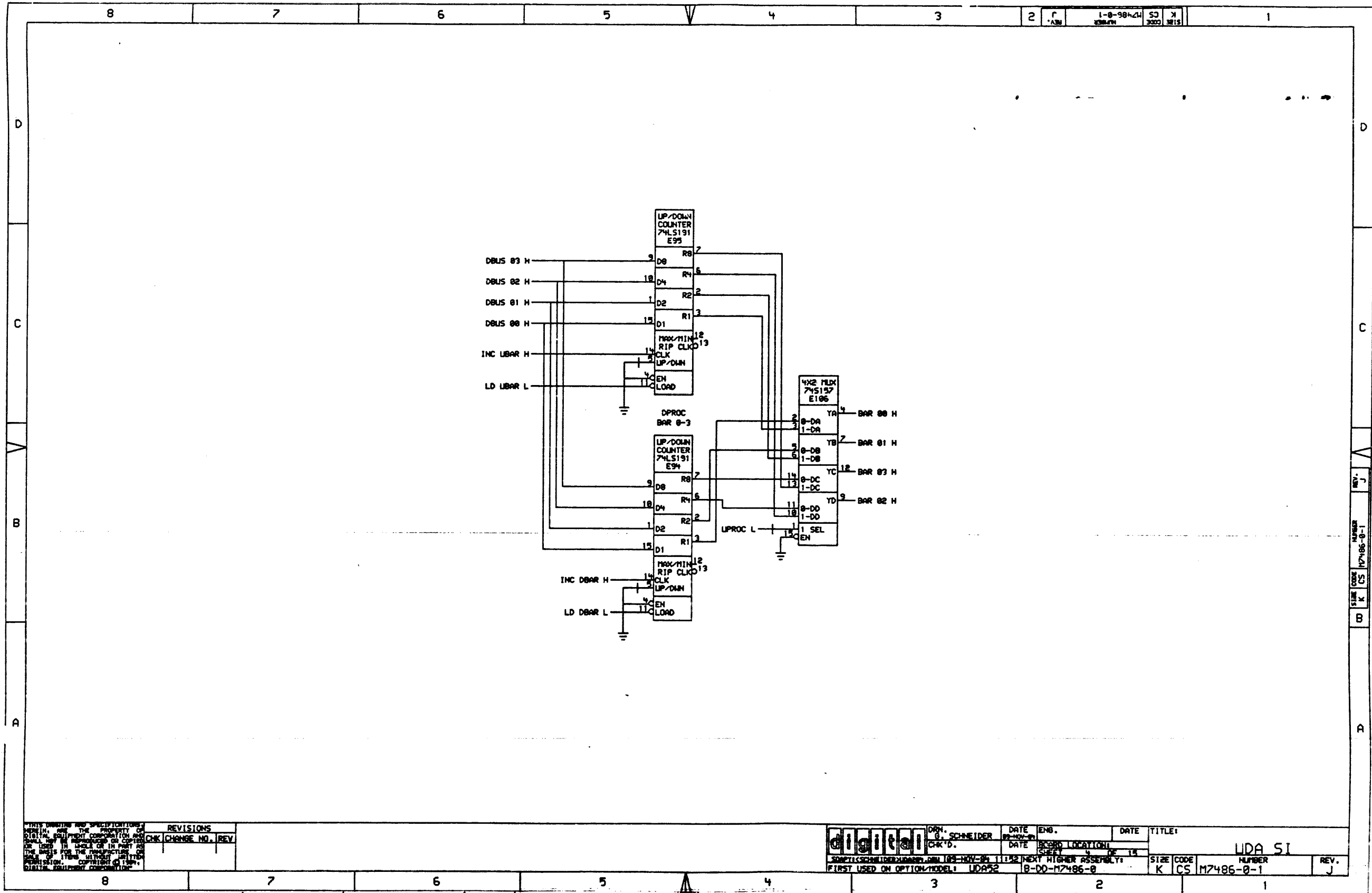
LDA 51		REV. J
SIZE CODE	NUMBER	REV.
K CS	117486-0-1	J



REVISIONS
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 2. REVISED FOR THE PROPERTY OF...
 3. REVISED FOR THE PROPERTY OF...

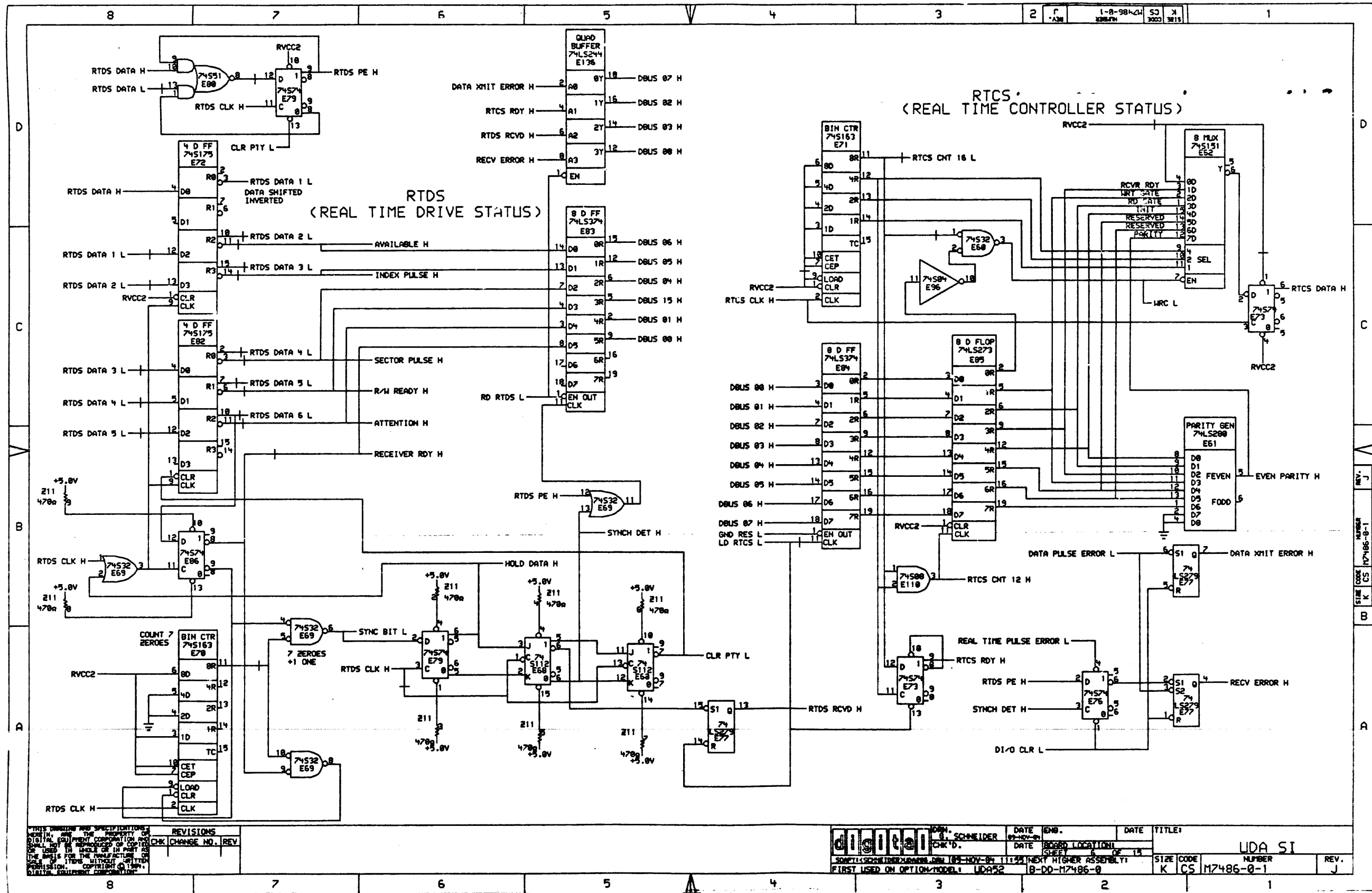
DATE ENG. DATE TEST. DATE APPROVALS
 DATE APPROVALS
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 DATE APPROVALS

BUFFER MEMORY



REV.	DATE	BY	CHK.	CHANGE NO.	REV.

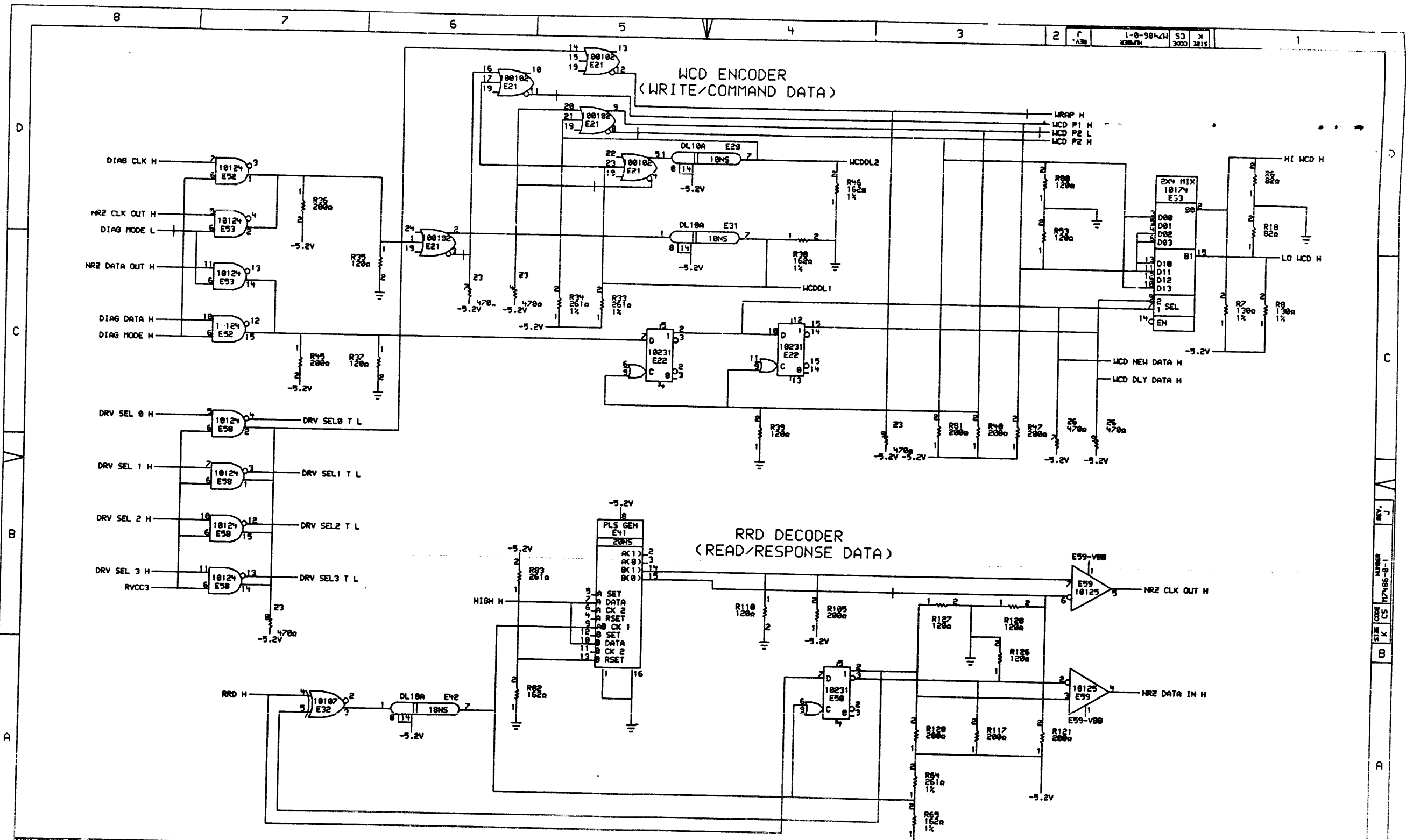
	DON. SCHNEIDER CK'D.	DATE 89-11-21	ENG.	DATE	TITLE:
	500711 SCHNEIDER NUMBER DON 189 NOV 89 1152 NEXT HIGHER ASSEMBLY: B-DD-M7486-0	DATE 89-11-21	BY CS	CHECKED CS	LOCATION 1152	UDA SI
FIRST USED ON OPTION/MODEL: UDA32	B-DD-M7486-0	SIZE K	CODE CS	NUMBER M7486-0-1	REV. J



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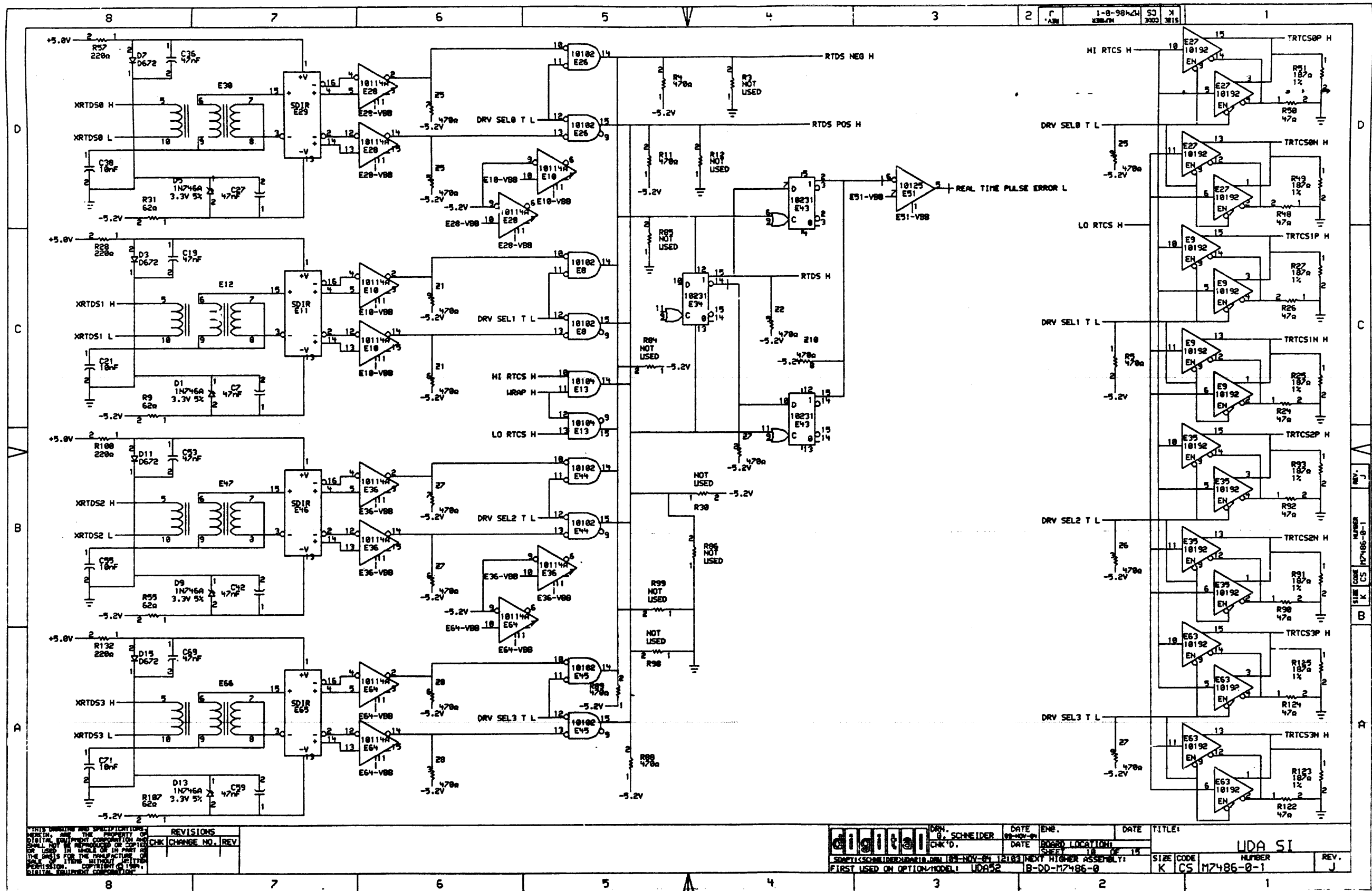
REV.	CHG.	NO.	REV.

DATE	ENR.	DATE	TITLE:
10-NOV-74	G. SCHNEIDER	10-NOV-74	UDA SI
DATE	BOARD LOCATION	DATE	BOARD LOCATION
10-NOV-74	SLEEP 5 OF 14	10-NOV-74	SLEEP 5 OF 14
SIZE	CODE	NUMBER	REV.
K	CS	M7486-0-1	J



REV.	DESCRIPTION	DATE
1	INITIAL DESIGN	10/1/78
2	REVISED	10/15/78
3	REVISED	10/25/78
4	REVISED	11/5/78
5	REVISED	11/15/78
6	REVISED	11/25/78
7	REVISED	12/5/78
8	REVISED	12/15/78
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98	REVISED	6/15/81
99	REVISED	6/25/81
100	REVISED	7/5/81

DRY. G. SCHNEIDER	DATE	ENG.	DATE	TITLE
CHK'D.	DATE	CHK'D.	DATE	LOCATION
LDA SI				
M7486-0-1				



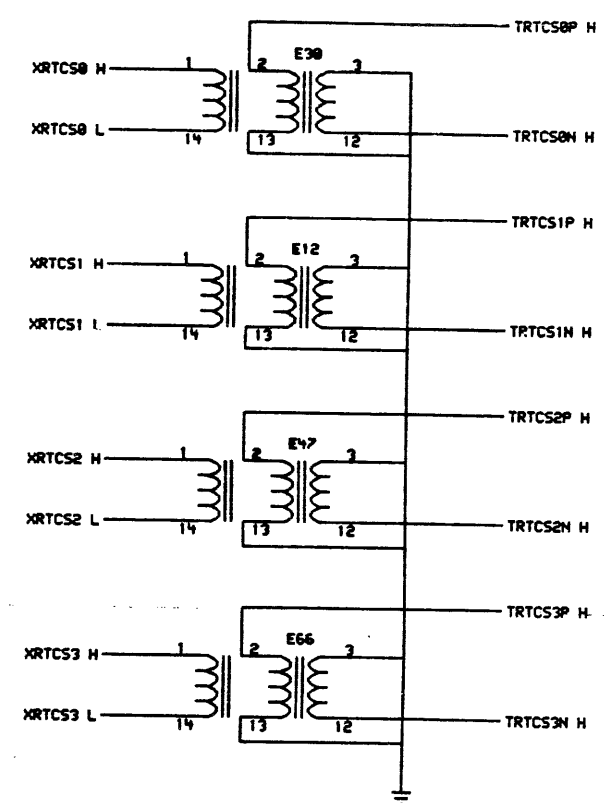
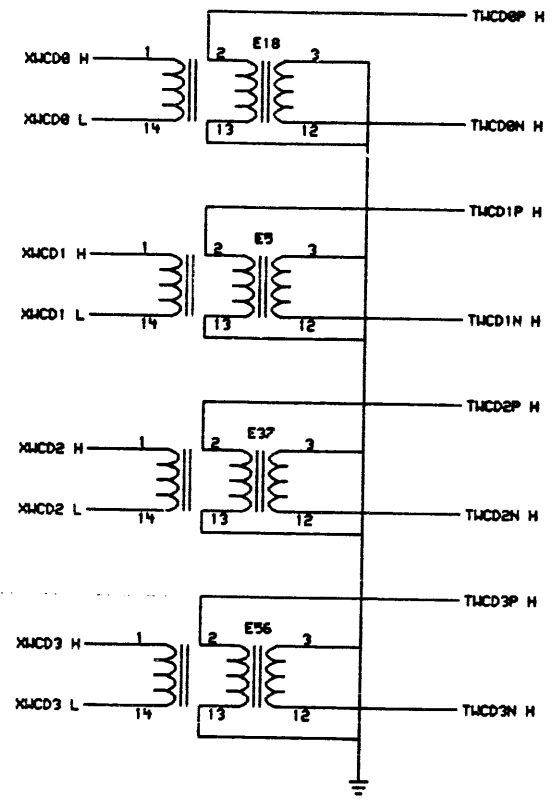
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REV.	CHANGE NO.	DATE

	DRN. SCHNEIDER	DATE 02-10-81	ENG.	DATE	TITLE: UDA 51
	CHK'D.	DATE	BOARD LOCATION: 1A	OF 14	REV. J
FIRST USED ON OPTION/MODEL: UDA52		NEXT HIGHER ASSEMBLY: B-DD-M7486-0		SIZE CODE: K CS	NUMBER: M7486-0-1

1-8-9842M SC K 3000 3218

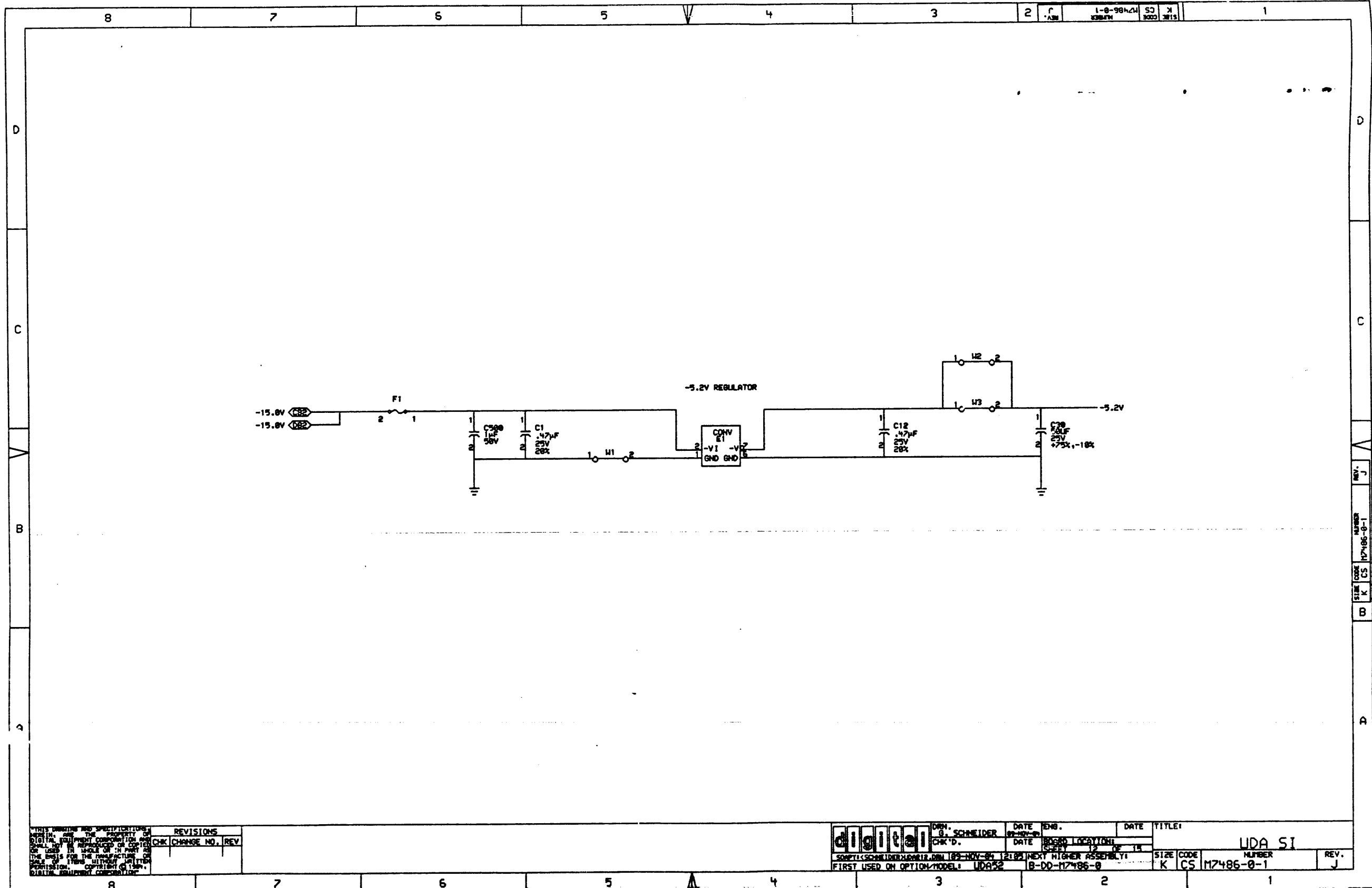
		J4			
XMCD3 H	1	2		XMCD3 L	
XRTCS3 H	3	4		XRTCS3 L	
XRRD3 H	5	6		XRRD3 L	
XRTDS3 H	7	8		XRTDS3 L	
XMCD2 H	9	10		XMCD2 L	
XRTCS2 H	11	12		XRTCS2 L	
XRRD2 H	13	14		XRRD2 L	
XRTDS2 H	15	16		XRTDS2 L	
XMCD1 H	17	18		XMCD1 L	
XRTCS1 H	19	20		XRTCS1 L	
XRRD1 H	21	22		XRRD1 L	
XRTDS1 H	23	24		XRTDS1 L	
XMCD0 H	25	26		XMCD0 L	
XRTCS0 H	27	28		XRTCS0 L	
XRRD0 H	29	30		XRRD0 L	
XRTDS0 H	31	32		XRTDS0 L	



REVISIONS
 CHK CHANGE NO. REV

digital ORN. SCHNEIDER DATE ENG. DATE TITLE:
 CK'D. DATE BOARD LOCATION:
 FIRST USED ON OPTION MODEL: LIDA52 R-DD-M2486-2
 RITE CODE NUMBER: K CS M2486-6-1
 LIDA SJ

REV. J
 NUMBER 17486-6-1
 CS K



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REVISIONS	
CHK	CHANGE NO. REV

digital
 DRN. B. SCHNEIDER
 DATE 09-10-74
 CHK'D.
 DATE 12-01-74

ENG. DATE 12-01-74
 TITLE: LDA SI
 SIZE CODE NUMBER
 K CS M7486-0-1
 REV. J

FIRST USED ON OPTION MODEL: LDA32
 B-DD-M7486-0

REV. J
 M7486-0-1
 CS
 K

		8		7		6		5		4		3		2		1		
RAM 05 H	.....	3-B3,L	3-B8,R	3-C3,L	3-C6,L	3-D3,L	3-D6,L	RTDS DATA 5 L	.....	6-B8,R	6-C7,L	XRTCS0 H	.....	11-B7,R	11-C3,R			
RAM 06 H	.....	3-A3,L	3-B8,R	3-C3,L	3-C6,L	3-D3,L	3-D6,L	RTDS DATA 6 L	.....	6-C7,L		XRTCS0 L	.....	11-B6,L	11-C3,R			
RAM 07 H	3-A3,L	3-B3,L	3-B6,L	3-B8,R	3-D3,L	3-D6,L	RTDS DATA H	.....	6-D8,R	6-D8,R	8-B2,L	XRTCS1 H	.....	11-C3,R	11-C7,R		
RAM 08 H	3-A8,R	3-B1,L	3-C2,L	3-C5,L	3-D2,L	3-D5,L	RTDS DATA L	.....	6-D8,R	8-A2,L		XRTCS1 L	.....	11-C3,R	11-C6,L		
RAM 09 H	3-A8,R	3-B1,L	3-C2,L	3-C5,L	3-D2,L	3-D5,L	RTDS H	.....	8-A8,R	10-C4,L		XRTCS2 H	.....	11-B3,R	11-C7,R		
RAM 1 CS L	3-A5,L	3-D7,R					RTDS NEG H	.....	10-D4,L			XRTCS2 L	.....	11-B3,R	11-C6,L		
RAM 1 WE L	3-B5,L	3-C7,R					RTDS PE H	.....	6-A2,R	6-B5,R	6-D7,L	XRTCS3 H	.....	11-B3,R	11-C7,R		
RAM 10 H	3-A8,R	3-B1,L	3-C2,L	3-C5,L	3-D2,L	3-D5,L	RTDS POS H	.....	10-D4,L			XRTCS3 L	.....	11-B3,R	11-C6,L		
RAM 11 H	3-A8,R	3-B1,L	3-B2,L	3-B5,L	3-D2,L	3-D5,L	RTDS RCVD H	.....	1-A7,R	6-A4,L	6-D5,R	XRTDS0 H	.....	10-D8,R	11-B7,R		
RAM 12 H	3-A8,R	3-B1,L	3-C2,L	3-C4,L	3-D2,L	3-D4,L	RVCC1	.....	1-A1,L	2-B3,D	2-D7,D	3-A1,D	3-A7,R	3-B5,R			
RAM 13 H	3-A8,R	3-B1,L	3-C2,L	3-C4,L	3-D2,L	3-D4,L	RVCC2	.....	5-B7,D	5-C5,R	5-C8,R	XRTDS0 L	.....	10-D8,R	11-B6,L		
RAM 14 H	3-A1,L	3-A8,R	3-C2,L	3-C4,L	3-D2,L	3-D4,L			1-A1,L	3-A1,D	3-B5,R	6-A8,R	6-B3,R	6-C1,D			
RAM 15 H	3-A1,L	3-A8,R	3-B2,L	3-B4,L	3-D2,L	3-D4,L			6-C4,R	6-C8,R	6-D2,R	6-D7,D					
RAM 2 CS L	3-A5,L	3-D4,R					RVCC3	.....	1-A1,L	7-B8,R		XRTDS1 H	.....	10-C8,R	11-B7,R		
RAM 2 WE L	3-B5,L	3-C4,R					SD010 H	.....	5-C4,L			XRTDS1 L	.....	10-B8,R	11-C7,R		
RAM 3 CS L	3-A5,L	3-B7,R					SD016 H	.....	5-A5,L	5-B5,R	5-C7,L	XRTDS2 H	.....	10-B8,R	11-C6,L		
RAM 3 WE L	3-B5,L	3-B7,R					SD016/10 H	.....	5-A5,L	5-B8,R		XRTDS2 L	.....	10-A8,R	11-C7,R		
RAM 4 CS L	3-A5,L	3-B4,R					SECTOR PULSE H	.....	6-C6,L			XRTDS3 H	.....	10-A8,R	11-C6,L		
RAM 4 WE L	3-B4,R	3-B5,L					SERDES ENABLE H	.....	1-A5,L	5-B2,R	5-C8,R	XRTDS3 L	.....	10-A8,R	11-C5,R		
RAM CS L	3-A5,L	3-C1,R	3-D1,R				SERDES10 EN H	.....	1-A5,L	5-C5,R		XWCD0 H	.....	11-B7,R	11-C5,R		
RAM PE L	1-A7,R	3-A6,L					SET IOC H	.....	1-A7,R	1-C6,L		XWCD0 L	.....	11-B6,L	11-C5,R		
RAM PH IN H	3-A6,L	3-B1,R					STROBE ECC H	.....	2-B4,L	5-B2,R	5-C5,R	XWCD1 H	.....	11-C5,R	11-C7,R		
RAM PH OUT H	3-A8,R	3-B1,L					SYNC BIT L	.....	6-A7,L			XWCD1 L	.....	11-C5,R	11-C6,L		
RAM PL IN H	3-A6,L	3-C1,R					SYNCH DET H	.....	6-A2,R	6-B5,L		XWCD2 H	.....	11-B5,R	11-C7,R		
RAM PL OUT H	3-A8,R	3-D1,L					TRTCS0N H	.....	10-D1,L	11-C2,L		XWCD2 L	.....	11-B5,R	11-C6,L		
RAM WE L	3-B5,L	3-C1,R	3-D1,R				TRTCS0P H	.....	10-D1,L	11-D2,L		XWCD3 H	.....	11-B5,R	11-C7,R		
RD BUFFER L	1-B6,L	3-A1,R	3-A3,R				TRTCS1N H	.....	10-C1,L	11-C2,L		XWCD3 L	.....	11-B5,R	11-C6,L		
RD DCR L	1-B5,R	1-B6,L					TRTCS1P H	.....	10-C1,L	11-C2,L							
RD ECC L	2-C2,L	5-C5,R					TRTCS2N H	.....	10-B1,L	11-B2,L							
RD ECC RSDU L	1-B6,L	5-B2,R					TRTCS2P H	.....	10-B1,L	11-C2,L							
RD MODE H	1-A5,L	2-C4,R	5-B5,R	5-C8,R			TRTCS3N H	.....	10-A1,L	11-B2,L							
RD MODE L	1-A5,L	5-A8,R					TRTCS3P H	.....	10-A1,L	11-B2,L							
RD RTDS L	1-C6,L	6-C6,R					TWCD0N H	.....	9-D1,L	11-C4,L							
RD SERDES L	1-B6,L	5-C8,R					TWCD0P H	.....	9-D1,L	11-D4,L							
READ H	3-A2,L	3-A2,R	3-A4,R	3-A7,R	3-A7,R	3-A8,R	TWCD1N H	.....	9-C1,L	11-C4,L							
READ L	3-A2,L	3-A8,R	3-A8,R	3-B7,R			TWCD1P H	.....	9-C1,L	11-C4,L							
REAL TIME PULSE ERROR L	6-A2,R	10-D3,L					TWCD2N H	.....	9-B1,L	11-B4,L							
RECEIVER RDY H	6-B6,L						TWCD2P H	.....	9-B1,L	11-C4,L							
RECV ERROR H	1-A7,R	6-A1,L	6-D5,R				TWCD3N H	.....	9-A1,L	11-B4,L							
RESET L	1-A7,R	1-C6,L	1-D5,R				TWCD3P H	.....	9-A1,L	11-B4,L							
RRD H	7-A7,R	9-C3,L					UPROC H	.....	3-A1,L	3-A4,R	3-A5,R	3-B8,R	3-D8,R				
RRD NEG H	9-D4,L						UPROC L	.....	2-A4,R	3-A1,L	3-A4,R	3-A5,R	3-B8,R	3-D8,R			
RRD POS H	9-D4,L						MCD DLY DATA H	.....	7-C2,L								
RSGEN CLK L	2-A5,L	5-A5,L	5-C2,R				MCD NEW DATA H	.....	7-C2,L								
RSGEN EN L	1-A5,L	2-B6,R					MCD P1 H	.....	7-D2,L								
RTCS CLK H	6-C4,R	8-B2,L	8-D8,R				MCD P2 H	.....	7-D2,L								
RTCS CNT 12 H	6-B3,L						MCD P2 L	.....	7-D2,L								
RTCS CNT 16 L	6-D3,L						MCDL1	.....	7-C4,L								
RTCS DATA H	6-C1,L	8-C8,R					MCDL2	.....	7-D4,L								
RTCS DLY DATA H	8-C2,L						WRAP H	.....	7-D2,L	9-C5,R	10-C5,R						
RTCS NEW DATA H	8-C2,L						MRC L	.....	6-C2,L								
RTCS P1 H	8-D3,L						MRT ECC L	.....	2-C3,L	5-A4,R	5-B2,R	5-C5,R					
RTCS P2 H	8-D3,L						XRRD0 H	.....	9-D8,R	11-B7,R							
RTCS P2 L	8-D3,L						XRRD0 L	.....	9-D8,R	11-B6,L							
RTCS RDY H	1-A7,R	6-A3,L	6-D5,R				XRRD1 H	.....	9-C8,R	11-B7,R							
RTDS CLK H	6-A6,R	6-A8,R	6-B8,R	6-D7,R	8-B2,L		XRRD1 L	.....	9-C8,R	11-B6,L							
RTDS DATA 1 L	6-C8,R	6-D7,L					XRRD2 H	.....	9-B8,R	11-C7,R							
RTDS DATA 2 L	6-C7,L	6-C8,R					XRRD2 L	.....	9-B8,R	11-C6,L							
RTDS DATA 3 L	6-C7,L	6-C8,R					XRRD3 H	9-A8,R	11-C7,R							
RTDS DATA 4 L	6-C7,L	6-C8,R					XRRD3 L	9-A8,R	11-C6,L							

REVISIONS
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 1 10/10/88 JLD
 2 11/10/88 JLD
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