

TABLE 1. BOOT/DIAG. SELECTION GUIDE FOR SWITCH PACK E102

TABLE 2 DECNET BOOT DEVICE SELECTION (S3 ON)

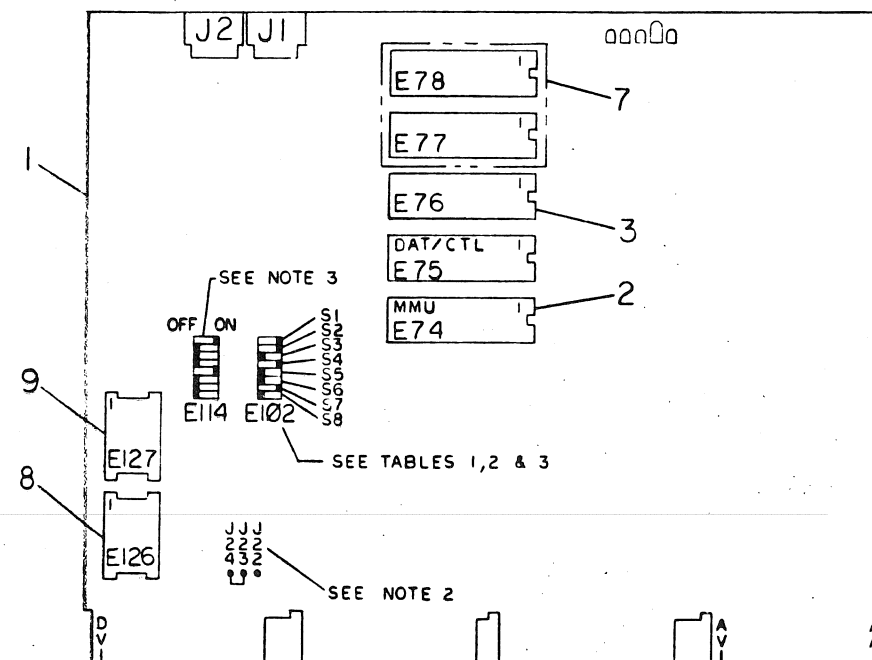
NOTE: X = DON'T CARE

TABLE 3 STANDARD BOOT DEVICE SELECTION (S3 OFF)

LEGEND	
NUMBER	DESCRIPTION
KDFII-BA	M8189-00 PLUS KTFII-AA & BOOT/DIAG. ROMS
KDFII-BB	M8189-00 PLUS KTFII-AA, KEFII-AA & BOOT/DIAG. ROMS
KDFII-BC	M8189-00 PLUS BOOT/DIAG. ROMS
KDFII-BD	M8189-00 PLUS KTFII-AA, KEFII-BB & BOOT/DIAG. ROMS

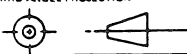
NOTES:

1. WHEN INSTALLING ITEMS 2,3,8 & 9 MAKE SURE THAT PIN 1 IS LOCATED AS SHOWN.
2. WHEN ITEMS 8 & 9 ARE MASKED ROMS CONNECT J23 TO J24 WITH J22 NOT CONNECTED.
WHEN ITEMS 8 & 9 ARE EPROMS CONNECT J22 TO J23 WITH J24 NOT CONNECTED.
3. BAUD RATE SELECTION. SEE D-CS-M8189-Ø-K11. SETTINGS SHOWN PRODUCE 9600 BAUD EACH LINE.
4. KEF11-BB=CIS MICROCODE HYBRID. CONTAINS CIS MICROCODE TO IMPLEMENT THE COMMERCIAL INSTRUCTION SET.



CAUTION: OFF SHEET PARTS LIST
EXISTS, SEE
K-PL-KDF11-B-DBP

REVISIONS		REV.
CHK	CHANGE NO.	A
	INITIAL	
	KOFI-B-MLOO	B
	<i>B</i> <i>Y</i> <i>12-APR-82</i>	
C. VALENTINE		

 THIRD ANGLE PROJECTION		DESCRIPTION		DWG PART NO		ITEM NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
		ANGLES 10° 30'		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES	
		SURFACE QUALITY IN MICRONS	☒ MEDIUM ☐ PREFERRED	OVER 0 TO 0.1 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0 2.5 3.0 4.0 5.0 6.0 8.0 10.0 12.5 16.0 20.0 25.0 32.0 40.0 50.0 63.0 80.0 100.0	OVER 0 TO 0.1 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0 2.5 3.0 4.0 5.0 6.0 8.0 10.0 12.5 16.0 20.0 25.0 32.0 40.0 50.0 63.0 80.0 100.0	OVER 0 TO 0.1 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0 2.5 3.0 4.0 5.0 6.0 8.0 10.0 12.5 16.0 20.0 25.0 32.0 40.0 50.0 63.0 80.0 100.0	OVER 0 TO 0.1 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0 2.5 3.0 4.0 5.0 6.0 8.0 10.0 12.5 16.0 20.0 25.0 32.0 40.0 50.0 63.0 80.0 100.0
QUANTITY & VARIATION		FIRST USED ON 11/23-B digital					
REMOVE BURRS AND BREAK SHARP CORNERS		DRN H. Carlson CHK'D [Signature] ENG. [Signature] PROJ. ENG. [Signature] PROD. [Signature]		TITLE KDFII-B CPU UNIT ASSEMBLY			
DO NOT SCALE DWG		NEXT HIGHER ASSY.		SIZE CODE NUMBER D UA KDFII-B 2			
MATERIAL		B 50 KDFII-B		REV B			
FINISH		SCALE NONE		CUST			
		SHEET 1 OF 1					

PARTS LIST

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QUANTITY PER VARIATION		
BA	BB	BC
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

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

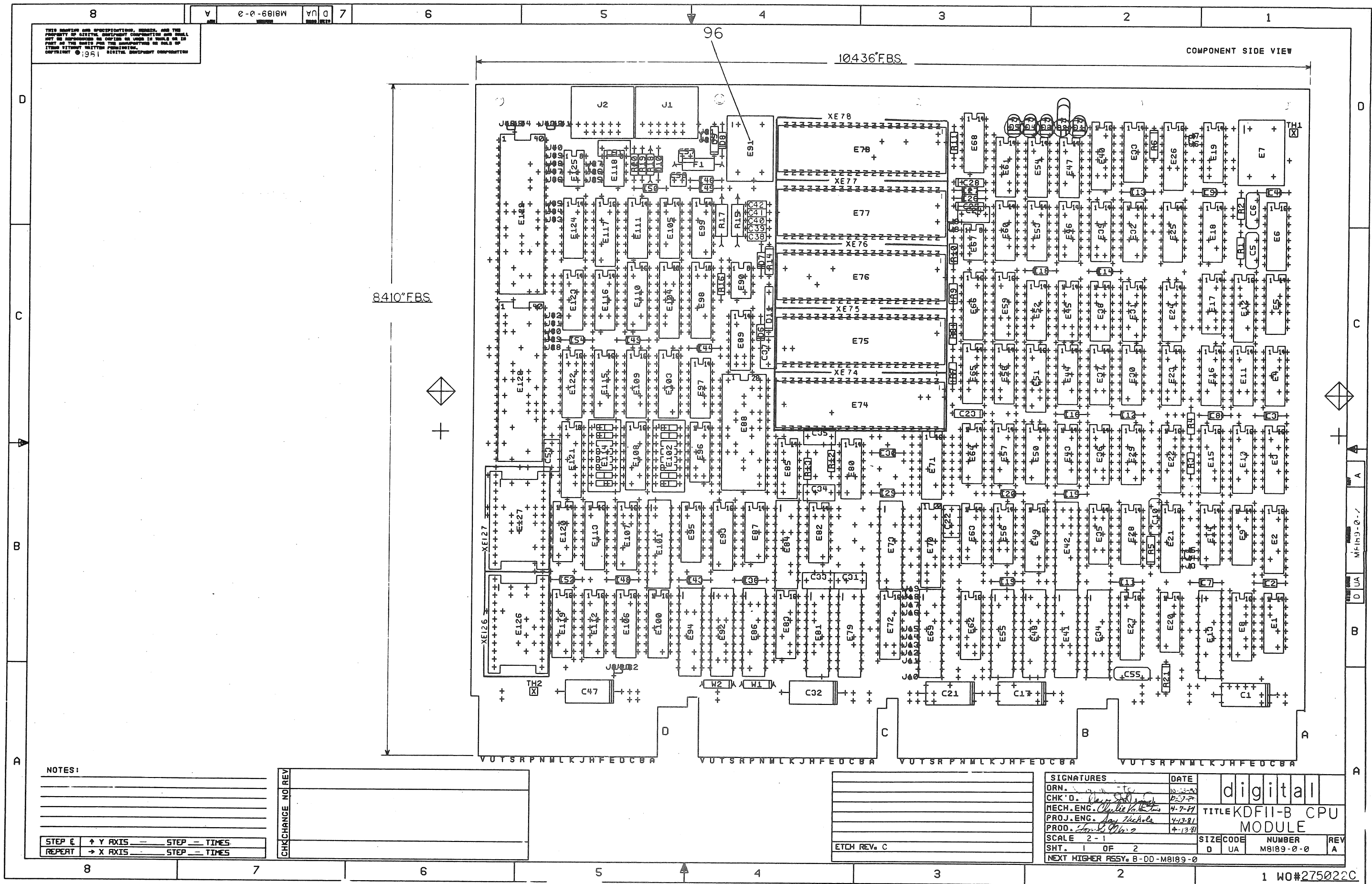
M8189-00
2115542-01
5700001-00
23244E2-00
23245E2-00
H3270-00

KDF11-B QUAD HT CPU,Q AND Q-22 B
DC 304 F11 MMU,FLOAT PT REG
HYBRID ASSY FLOATING POINT
E2-04
E2-04
TEST CONNECTOR

1	1	1
1	1	—
—	1	—
1	1	1
1	1	1
1	1	1

7 NOTE: ITEM #6, THE WRAP-AROUND-TEST JUMPER FOR CONNECTOR J2, IS NOT SHOWN ON UA DWG.
8 NOTE: FOR BULK INTERPLANT SHIPMENT OF MODULES REFER TO PACKAGING INSTRUCTION A-SP-3700053-0-0
9 NOTE: FOR SHIPMENT OF INDIVIDUAL MODULES REFER TO PACKAGING INSTRUCTION A-SP-3700069-0-0

SIZE	B	DD	CODE	NUMBER	M8189-Ø	REV.	A
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LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5014313-0-0	5014313-00	DRILL AND ETCH BD.	1	
2	2		1000022-00	270.0 MMF 100V 5%200PPM MICA	1	C10
3	3		1000024-00	470.0 MMF 100V 5%200PPM MICA	3	C5,C6,C53
4	4		1001610-00	.01 MFD 50V +80-20% 25U CER	3	C26,C27,C30
5	5		1012784-00	.047 MFD 50V +80-20% CER	29	C2-C4,C7-C9,C11-C18,C18-C20,C23, C25,C28,C29,C36,C43-C46,C48-C50, C52,C54
6	6		1016681-00	.47 MFD 50V +80-20% CER	14	C22,C24,C31,C33-C35,C37-C42,C51, C53
7	7		1017472-00	10 MFD 35V +50-10% AL EL	5	C1,C17,C21,C32,C47
8	8		1011740-02	1800.0 MMF 50V 10% CER	2	C56,C57
9	9		1109977-00	1N 749A VZ= 4.3 5%	1	D9
10	10		1112689-00	LED .8MCD@16MA VF=5V	4	D1,D3-D5
11	11		1114384-00	LED 105MW 35MA GREEN	1	D2
12	12		1100114-00	D 664 QS\75PCB PIV= 25V SP	3	D6-D8
13	13		1110967-00	1N 4005 PIV=600 I= 1A D041 SI	1	D10
14	14		1105508-00	1N 823 VZ= 6.2 5% .40W Y	1	D11
15	15		1213506-04	HEADER 10POS RT ANGLE W/3 SI	2	J1,J2
16	16		1215006-06	SOCKET 24PIN IC LOW PROFILE	2	XE126,XE127
17	17		1216116-00	SOCKET 40PIN	5	XE74-XE78
18	18		1210929-02	FUSE, SUB-MINI 1.000A, 125V, A	1	F1
19	19		1211164-04	SW,DIP 1P 1A 8POS	2	E102,E114
20	20		1213113-01	HANDLE,MODULE,	1	
21	21		1300229-00	100.0 .25 W 5.0 % CC	1	R7
22	22		1300316-00	470.0 .25 W 5.0 % CC	3	R6,R12,R16
23	23		1300365-00	1.0 K .25 W 5.0 % CC	4	R3,R4,R8,R11
24	24		1300488-00	12.0 K .25 W 5.0 % CC	2	R19,R20
25	25		1301322-00	180.0 .25 W 5.0 % CC	1	R13
26	26		1301808-00	22.0 K .25 W 5.0 % CC	1	R18
27	27		1302177-00	47.0 K .25 W 5.0 % CC	2	R1,R2

REVISION HISTORY		BASIC PART NO: MB189		DRN: R. BUREAU	DATE: 11-JUL-80	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A			TITLE		PARTS LIST	
---	INITIAL	A	SECTION.VARIATION INDEX	CHK'D: BOB BARILONE	DATE: 11-JUL-80	KDF11-B CPU MODULE			
			[A] 00						
			[B]						
			[C]	DES.ENG: C.A. VALENTINE	DATE: 14-APR-81				
			[D]						
			[E]						
			[F]	RESP.ENG.: JAY NICHOLS	DATE: 14-APR-81				
			[H]						
			[J]						
			[K]	MFG.ENG.: TOMAS OLMO	DATE: 14-APR-81	K	PL	MB189-0-DBP	A
			[L]						
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
			[N]	D-UA-MB189-0-0	B-DD-MB189-0-0	Z1037A.PLS		17	
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
28	28		1302602-00	56.0 .25 W 5.0 % CC	1		R5
29	29		1309422-00	5.10 .25 W 5.0 % CC	2		R9,R10
30	30		1311003-01	R NETWORK 14-180 14-390 16PIN	3		E8,E27,E62
31	31		1301320-00	1.20 K .25 W 5.0 % CC	1		R21
32	32		1300005-03	R NETWORK 13-10K 5.0 % 14PIN	1		E123
33	33		1300005-07	R NETWORK 15-4.7K 5.0 % 16PIN	3		E72,E108,E122
34	34		1300228-00	100.0 .50 W 5.0 % CC	2		R15,R17
35	35		1303178-00	620.0 .25 W 5.0 % CC	1		R14
36	36		1811660-02	OSCILLATOR, XTAL 5.0688 MHZ	1		E91
37	37		1811660-20	OSCILLATOR, XTAL 26.666 MHZ	1		E7
38	38		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	8		E17,E19,E29,E30,E36,E38,E43,E50
39	39		1910548-00	74S157 MUX 1 OF 2 (QUAD)	1		E15
40	40		1910550-00	74S174 FF-D HEX	5		E3,E10,E21,E26,E51
41	41		1910957-00	74S175 FF-D QUAD COMMON CLO	4		E12,E22,E40,E59
42	42		1911117-00	DEC 8838 TRANSCEIVER,BUS,QUA	1		E2
43	43		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	3		E1,E20,E63
44	44		1909705-00	DEC 8881 NAND GATE-QUAD 2IN 0	1		E9
45	45		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	1		E66
46	46		1911712-00	74S51 AND-OR GATE-INVERT D	1		E45
47	47		1912098-00	0026 DRIVER,MOS CLOCK,2	1		E90
48	48		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	3		E37,E52,E56
49	49		1912389-00	74S08 AND GATE-QUAD 2IN,PO	4		E11,E28,E39,E96
50	50		1912647-00	LS257 MUX 1 OF 2 (QUAD)	6		E83,E100,E106,E110,E113,E119
51	51		1912649-00	LS75 LATCH 4BIT,BISTABLE	1		E49
52	52		1912697-00	LS174 FF-D HEX W/CLEAR	3		E93,E107,E112
53	53		1912730-00	DC 003 INTERRUPT,2 CIRCUIT	2		E98,E104
54	54		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1		E61
55	55		1912801-00	LS02 NOR-GATE-QUAD 2IN	1		E85
56	56		1912803-00	74LS04 INVERTER GATE,HEX	1		E89
57	57		1912804-00	LS05 INVERTER GATE-HEX 1I	2		E82,E87
58	58		1912805-00	LS08 AND GATE-QUAD 2IN,PO	1		E65
59	59		1912807-00	LS10 NAND GATE-TRIPLE 3IN	2		E25,E95
60	60		1912808-00	LS11 AND GATE-TRIPLE 3IN	1		E14
61	61		1912810-00	LS20 NAND GATE-DUAL 4IN	2		E53,E60
62	62		1912816-00	LS32 OR GATE-QUAD 2IN,POS	2		E120,E124
63	63		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	4		E5,E80,E111,E64
64	64		1912846-00	LS155 DECODER,2 OF 4(DUAL)	3		E103,E109,E115
65	65		1912853-00	LS175 FF-D QUAD	1		E117
66	66		1912857-00	LS197 COUNTER,BINARY,PRESET	1		E105
67	67		1912858-00	LS221 ONE SHOT-DUAL,SCHMIT	1		E6
68	68		1912863-00	LS273 FF-D OCTAL W/CLEAR	1		E86
69	69		1912868-00	LS299 SHIFT REG. 8-BIT UNI	2		E92,E101
70	70		1913340-00	74S32 OR GATE-QUAD 2IN	4		E4,E44,E97,E116
71	71		1913462-00	74S240 OCTAL BUFFER,INVERTI	3		E42,E73,E79
72	72		1913671-00	74S374 FF-D OCTAL TRISTATE	1		E70
73	73		1913777-00	LS240 DRIVER,LINE,OCTAL,T	1		E94
74	74		1914085-00	74S260 NOR GATE-DUAL,POS	1		E23
75	75		1915218-00	LS245 TRANSCEIVER,BUS,OCT	2		E81,E84

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							KDF11-B CPU MODULE		K	PL	M8189-0-DBP	A

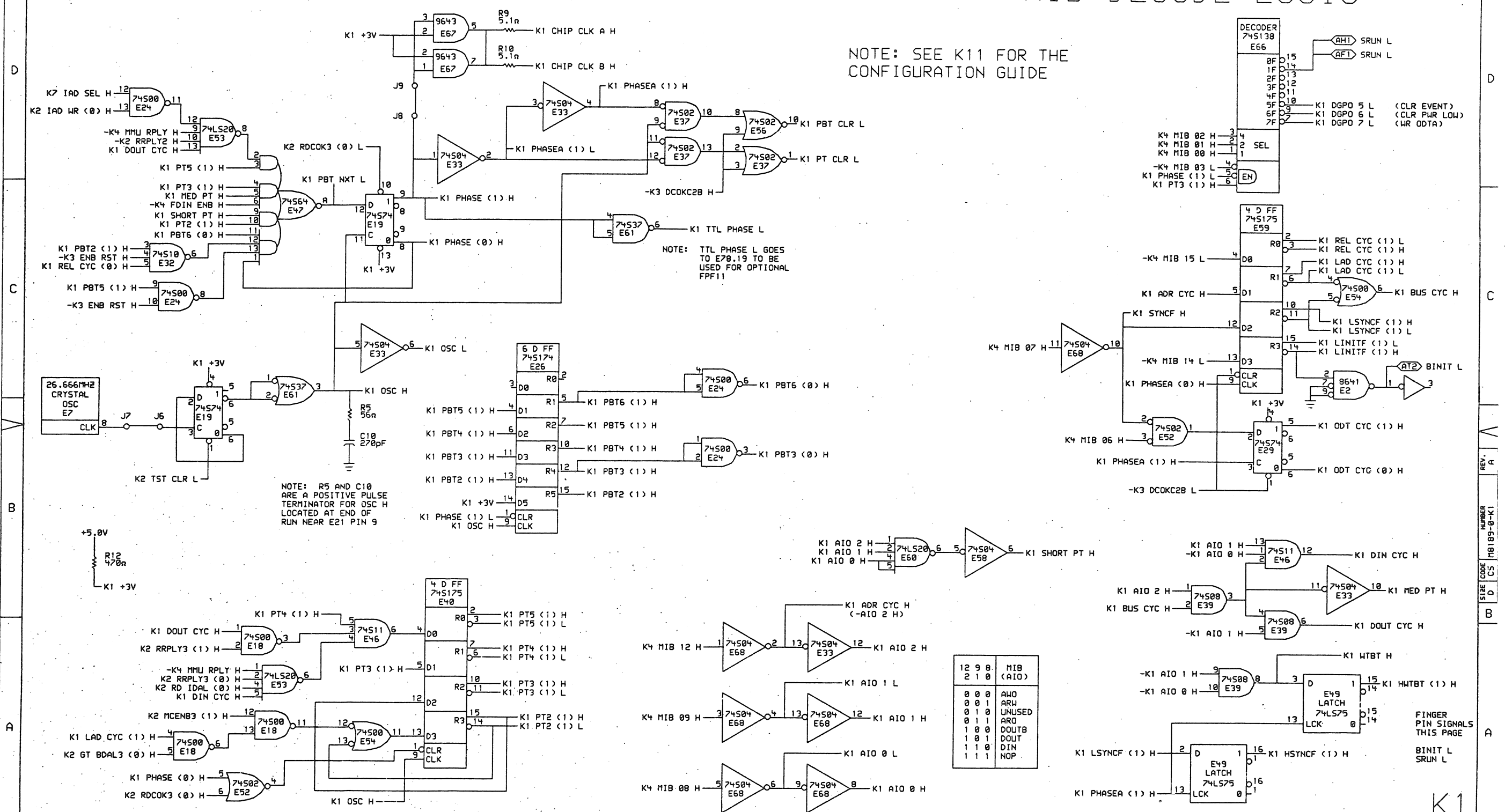
LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
76	76		1915305-00	AM 2908 TRANSCEIVER,BUS,LATCH	6	E13,E34,E41,E48,E55,E69
77	77		1915415-00	9636 DRIVER,DUAL,EIA RS-	1	E118
78	78		1915416-00	9637 RECEIVER,DUAL,RS-42	1	E125
79	79		1916028-01	9643 DRIVER,TTL TO MOS,D	1	E67
80	80		1910532-00	74S00 NAND GATE-QUAD 2IN	6	E16,E18,E24,E31,E35,E54
81	81		1910534-00	74S04 INVERTER GATE-HEX 1I	4	E33,E58,E68,E99
82	82		1910535-00	74S05 INVERTER GATE-HEX 1	1	E57
83	83		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E32
84	84		1910537-00	74S11 AND GATE-TRIPLE 3INP	1	E46
85	85		1910542-00	74S64 A-O-I GATE 4-2-3-2	1	E47
86	87		2112623-00	DUAL BAUD RATE GEN/PROG DIVIDER,	1	E121
87	88		2113937-01	6402-1 UART,UNIV.,ASYNCHRO	2	E128,E129
88	91		23061C6-00	C6-01	1	E88
89	92		5700000-01	DAT/CTL HYBRID ASSY W/FP,DCF11-A	1	E75
90	93		9009149-00	PIN, STAKING, P.C. BOARD, .025 X	44	J3-J46
91	94		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
92	95		9000024-01	EYELET,ROLL FLANGE .1210DX .192	6	
93	96		9010213-01	SPACER,14 PIN BLK/NYL .060THK.	1	
94	97		1218783-00	CONN .100 2POS JUMPER	12	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							KDF11-B CPU MODULE		K	PL	M8189-0-DBP	A

MIB DECODE LOGIC

Diagram of Decoder 745138 E66 showing connections:

- Pin 15: AH1 SRUN L
- Pin 14: AF1 SRUN L
- Pin 13: DGPO 5 L (CLR EVENT)
- Pin 12: DGPO 6 L (CLR PWR LOW)
- Pin 11: DGPO 7 L (CLR ODTA)



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	CHK	CHANGE NO.	REV

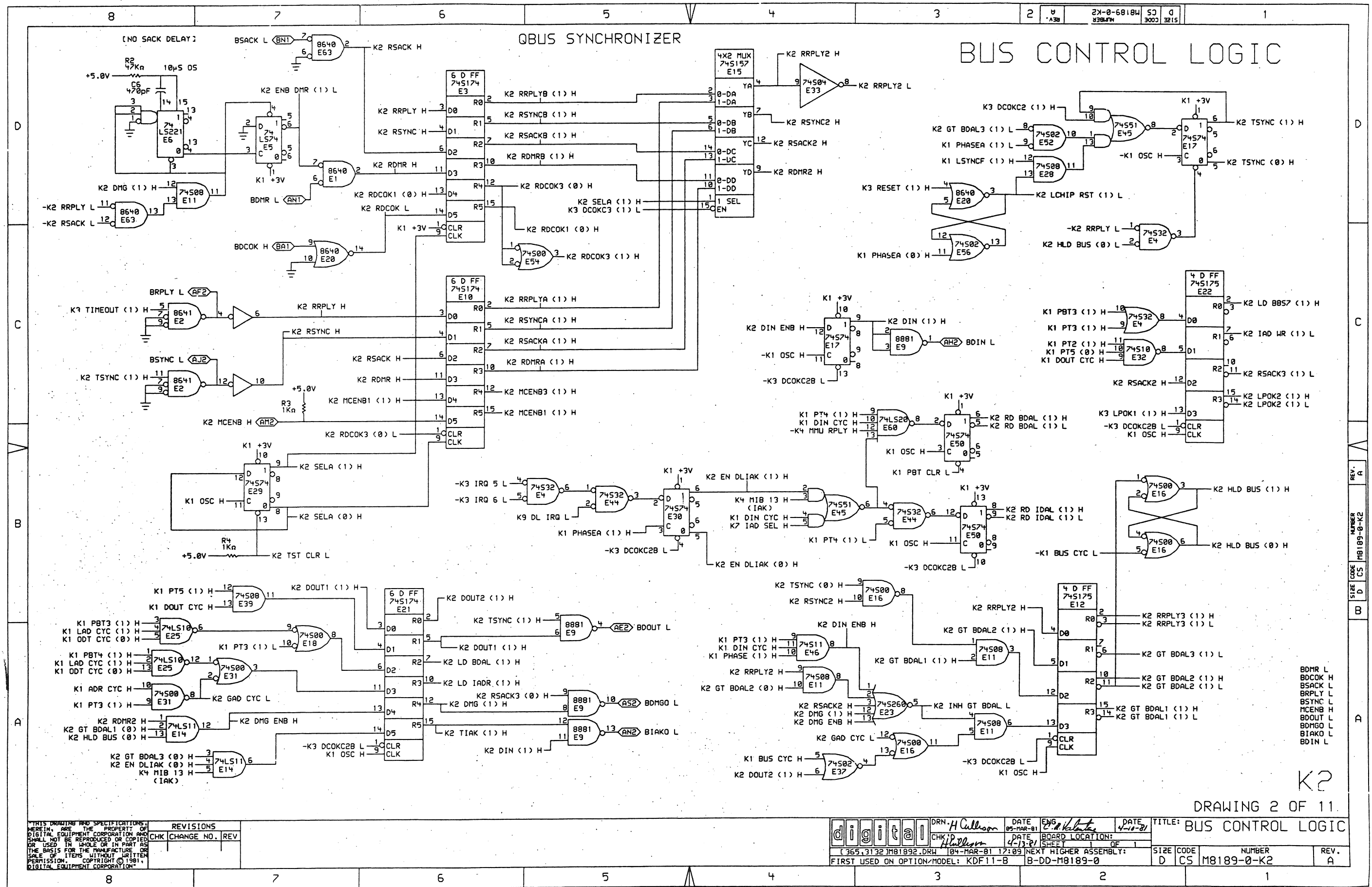
REVISIONS	
CHANGE NO.	REV

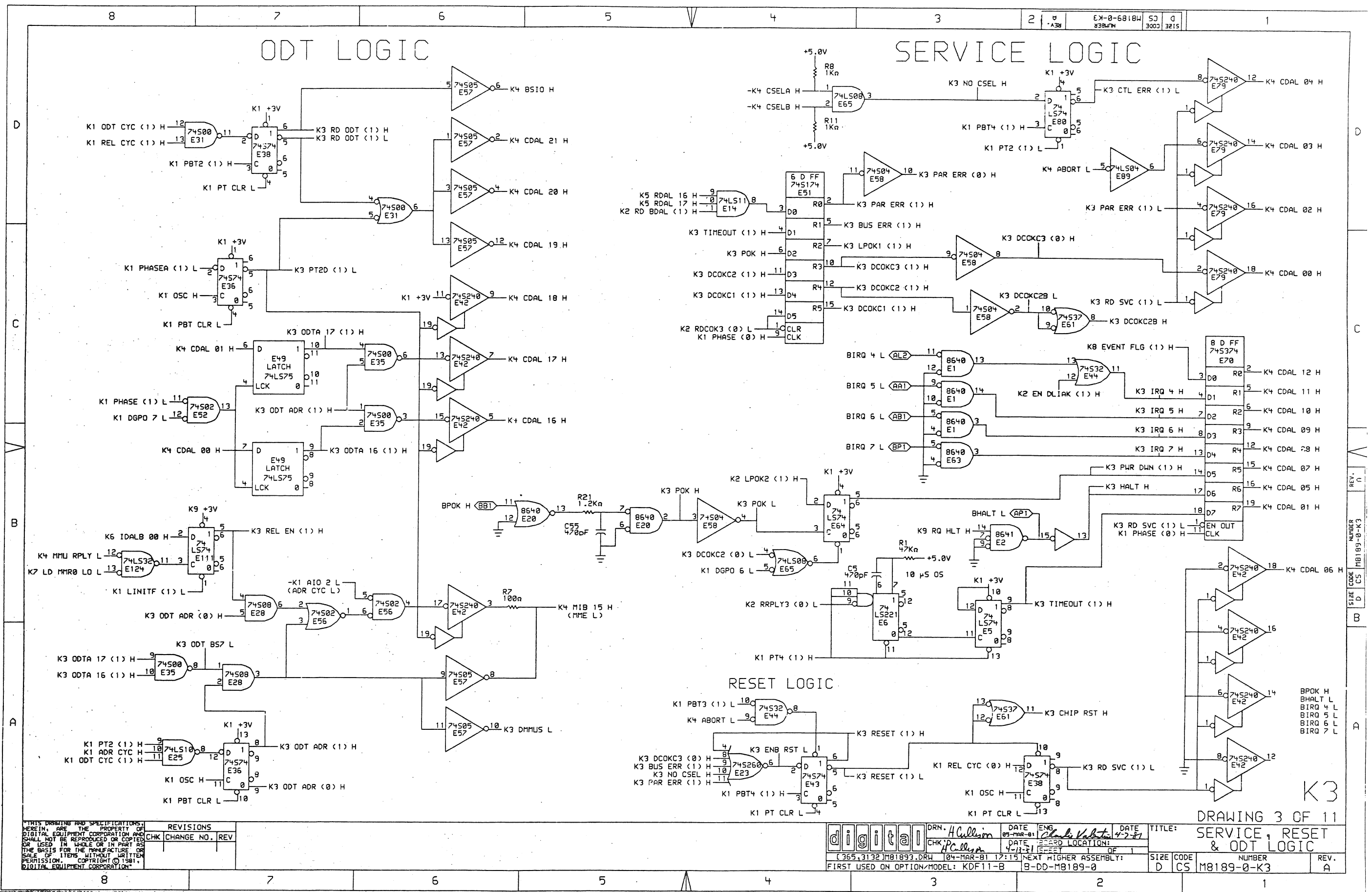
digital	DRN. <i>H. Collins</i>	DATE <i>03-MAR-81</i>	EXF. <i>Chalk Valente</i>	DATE <i>4-13-81</i>	TITLE: TIMING LOGIC & MIB DECODE
	CHK'D <i>H. Collins</i>	DATE <i>4-13-81</i>	BOARD LOCATION: <i>5-EEET</i>	OF <i>1</i>	
[365,3132]M81891.DRW			04-MAR-81 16:55		NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KDF11-B			B-DD-M8189-0		
SIZE	CODE	NUMBER		REV.	
D	C5	M8189-0-K1		A	

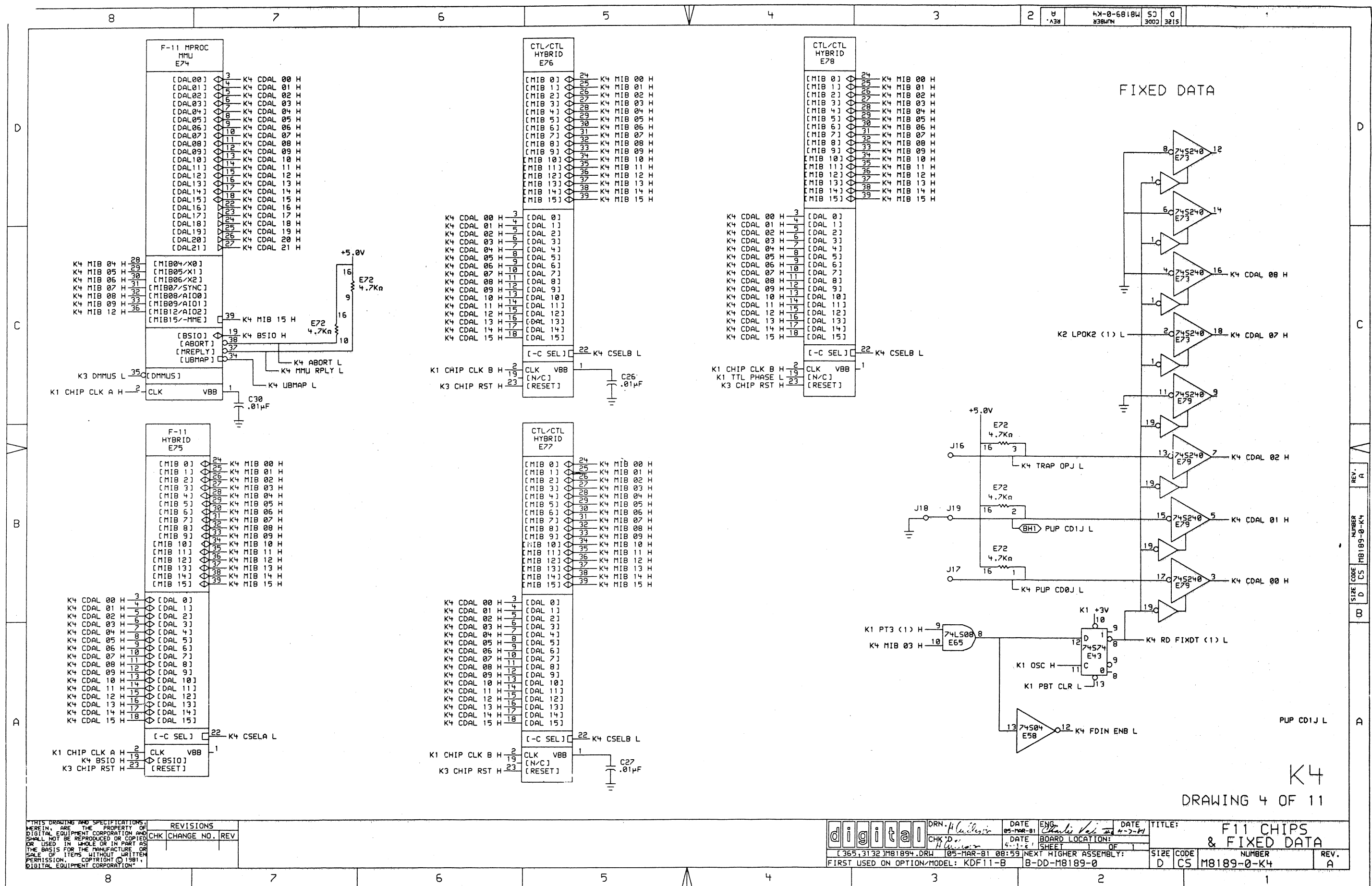
DRAWING 1 OF 11

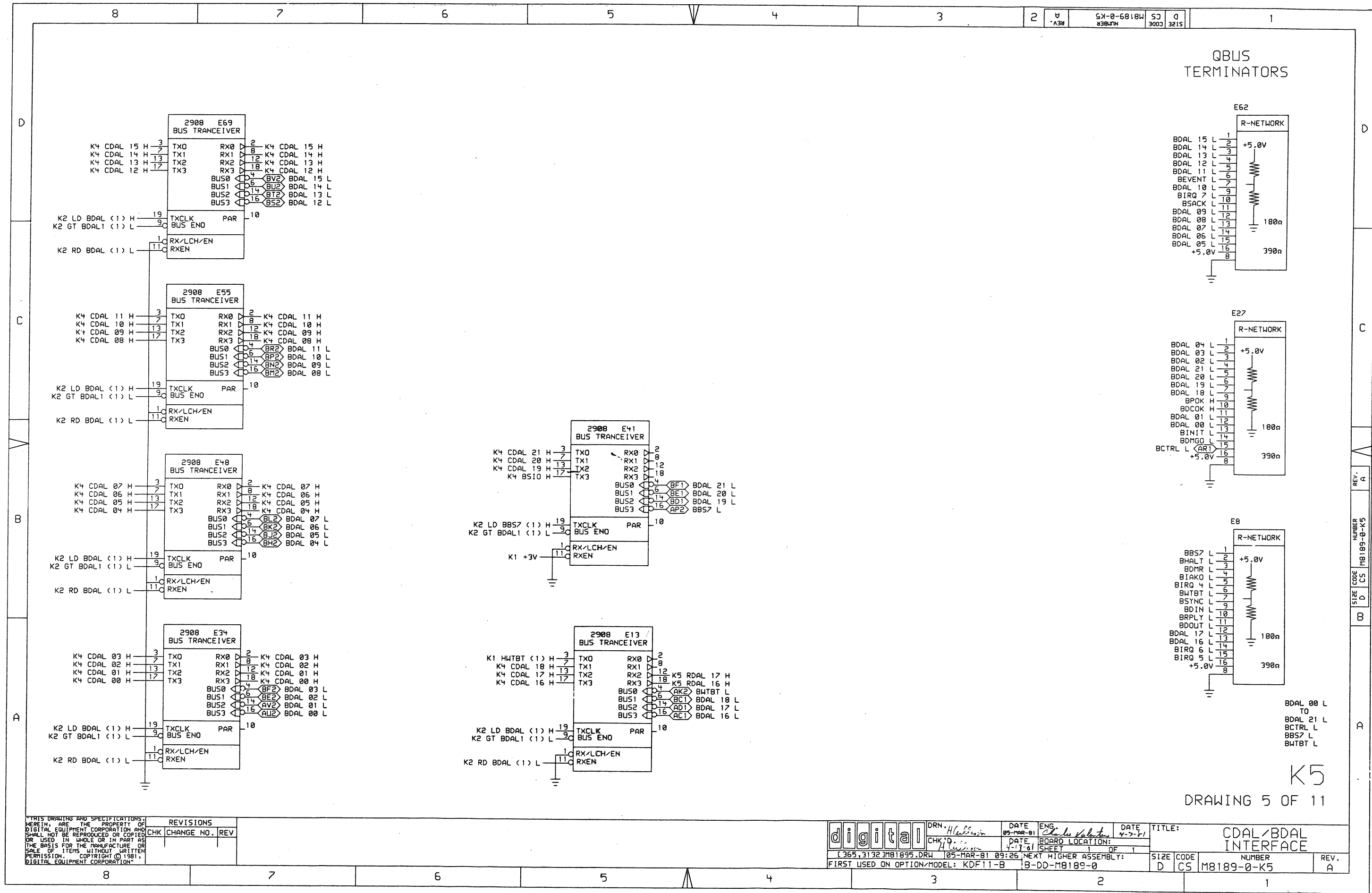
TIMING LOGIC
& MIB DECODE

SIZE	CODE	NUMBER	REV.
D	CS	M8189-0-K1	0







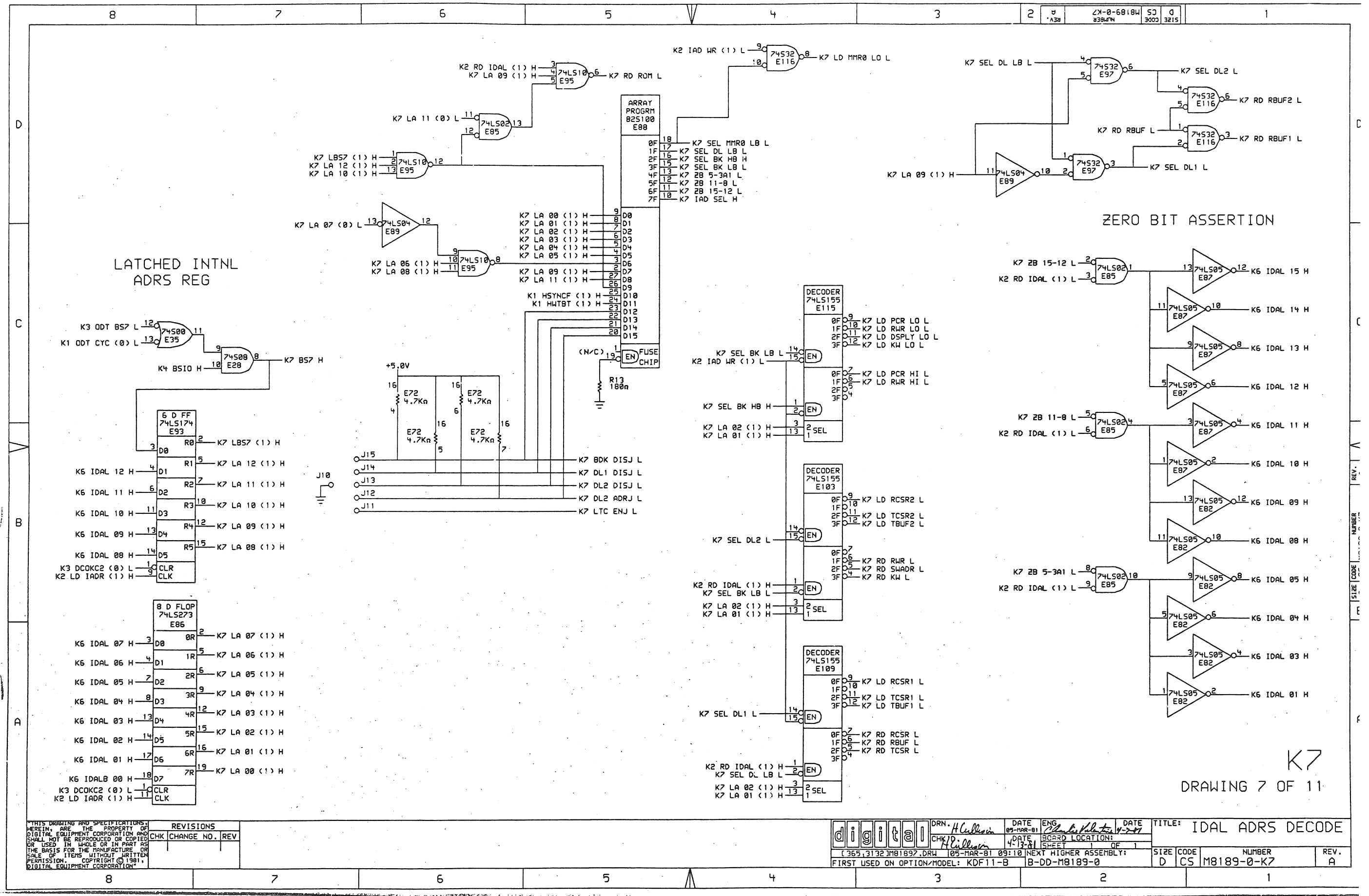


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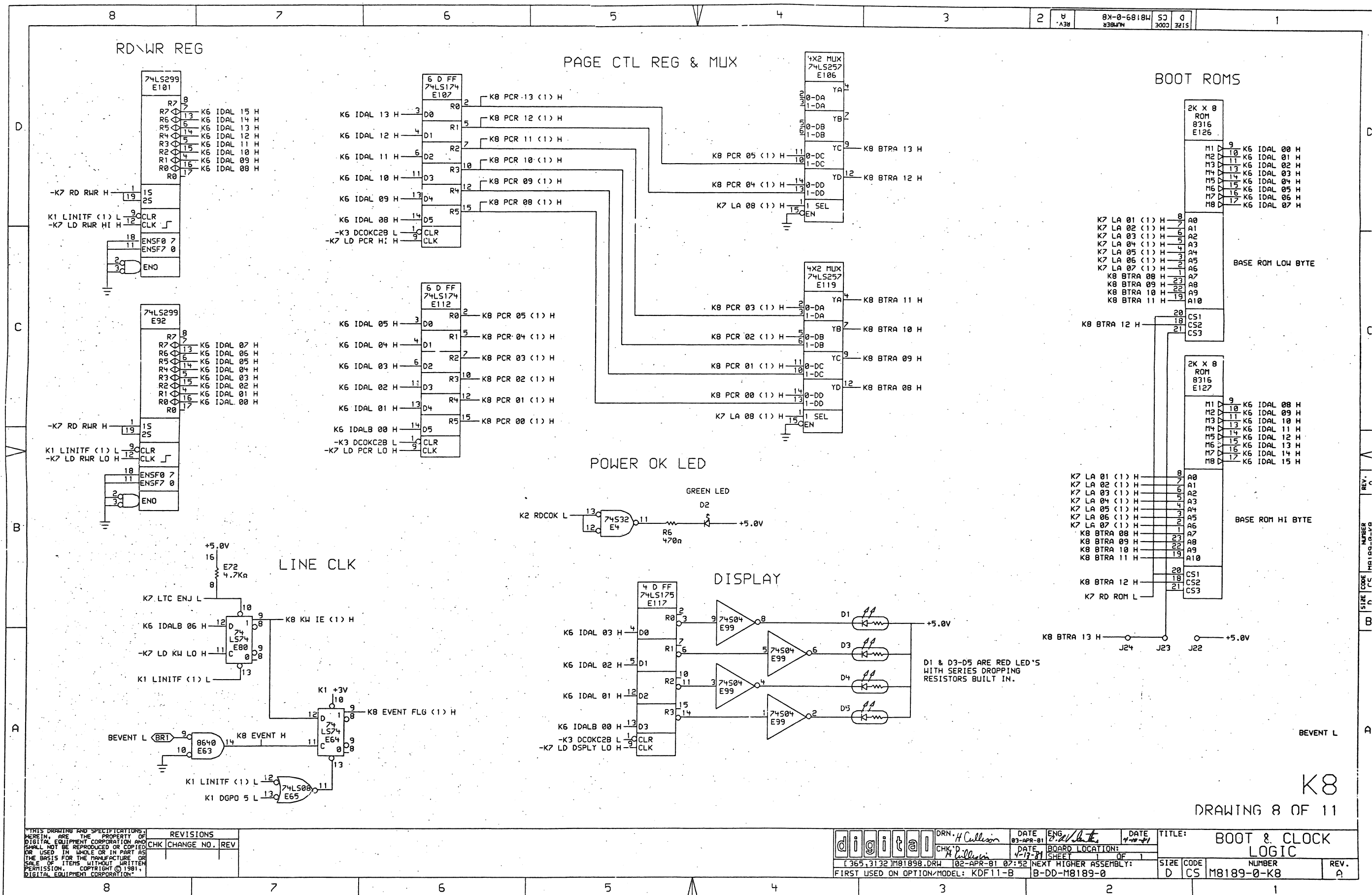
REVISIONS	
CHK	CHANGE NO. REV

digital	DRN: H. H. H.	DATE: 05-12-81	ENG: C. L. K.	DATE: 4-7-81	TITLE: CDAL/BDAL INTERFACE			
	CHK: D. H.	DATE: 4-11-81	BOARD LOCATION: 1	SHEET: 1 OF 1				
C365,3132 M81895.DRW 105-MAR-81 09:26 NEXT HIGHER ASSEMBLY: 18-DD-M8189-0					SIZE: D	CODE: CS	NUMBER: M8189-0-K5	REV: A
FIRST USED ON OPTION/MODEL: KDF11-B								

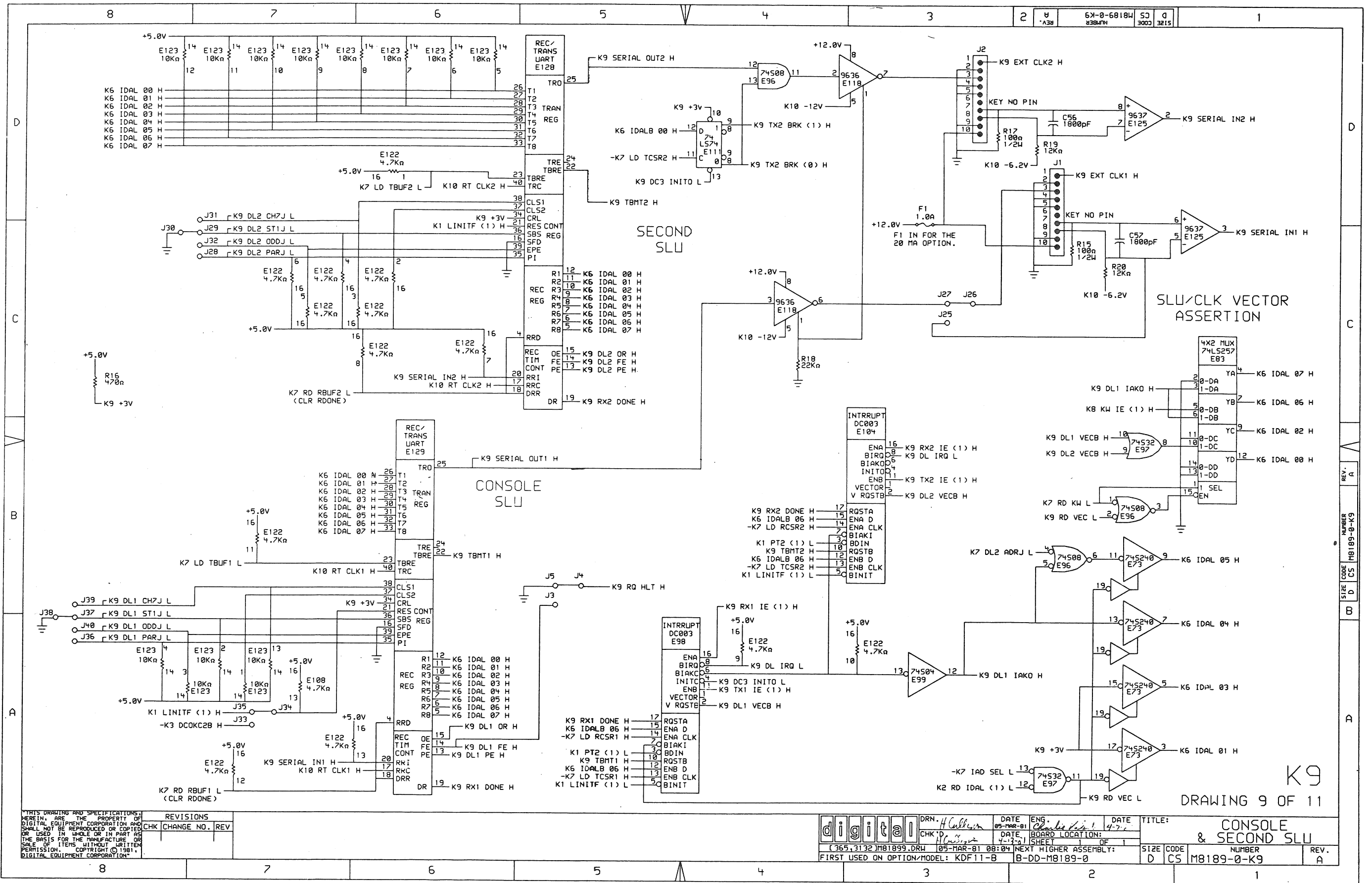
K5
DRAWING 5 OF 11



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CHK	CHANGE NO.	REV	4-13-81		05-MAR-81	H. Cullen	05-MAR-81	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: KDF11-B			NEXT HIGHER ASSEMBLY: B-DD-M8189-0		SIZE CODE		NUMBER		REV.
D			CS		M8189-0-K7		A		



INTERFIL 1M6402 - 1 IPL



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HYBRID C.I.S. MICROCODE CHIP.

REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE										
CHK	CHANGE NO.	REV.	KEF11-BB	A. AMICO	21JAN81	digital DRAWING DIRECTORY KEF11-BB									
	INITIAL	A		CHK'D.	DATE										
				ROBICHAUD	08APR81										
				PROJ. ENG.	DATE										
				K. AMUNDSEN	8 May 81	SIZE	CODE	NUMBER						REV	
				PROD.	DATE	B	DD	KEF11-BB						A	
			SHEET 1 OF 2	Aug. 81	9-Jun-81	DIST.									

