

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP01364	FIELD MAINTENANCE PRINT SET (MP)	-				
	B-TC-FP730-0-1	FIELD MAINTENANCE PRINT SET (TC)	-				
	B-DD-FP730-0	11730 FLOATING POINT ACCELERATOR - DRG. DIRECTORY	-				
	K-PL-FP730-0-DBP	11730 FLOATING POINT ACCELERATOR - PARTS LIST	-				
2	B-DD-M8389-0	M8389 FLOATING POINT ACCELERATOR - DWG. DIRECTORY	-				
	D-UA-M8389-0-0	M8389 FLOATING POINT ACCELERATOR - ASSEMBLY	E/M				
	K-PL-M8389-0-DBP	M8389 FLOATING POINT ACCELERATOR - PARTS LIST	-				
	D-BD-M8389-0-0	M8389 FLOATING POINT ACCELERATOR - BLOCK DIAGRAM	-				
	D-CS-M8389-0-X	M8389 FLOATING POINT ACCELERATOR - CIRCUIT SCHEM. (-FPAA THRU -FPAP)	E				
	D-GL-M8389-0-0	M8389 FLOATING POINT ACCELERATOR - ROM & PAL LISTING	-				
	D-EC-M8389-0-0	M8389 FLOATING POINT ACCELERATOR - ETCH CUT DWG.	-				

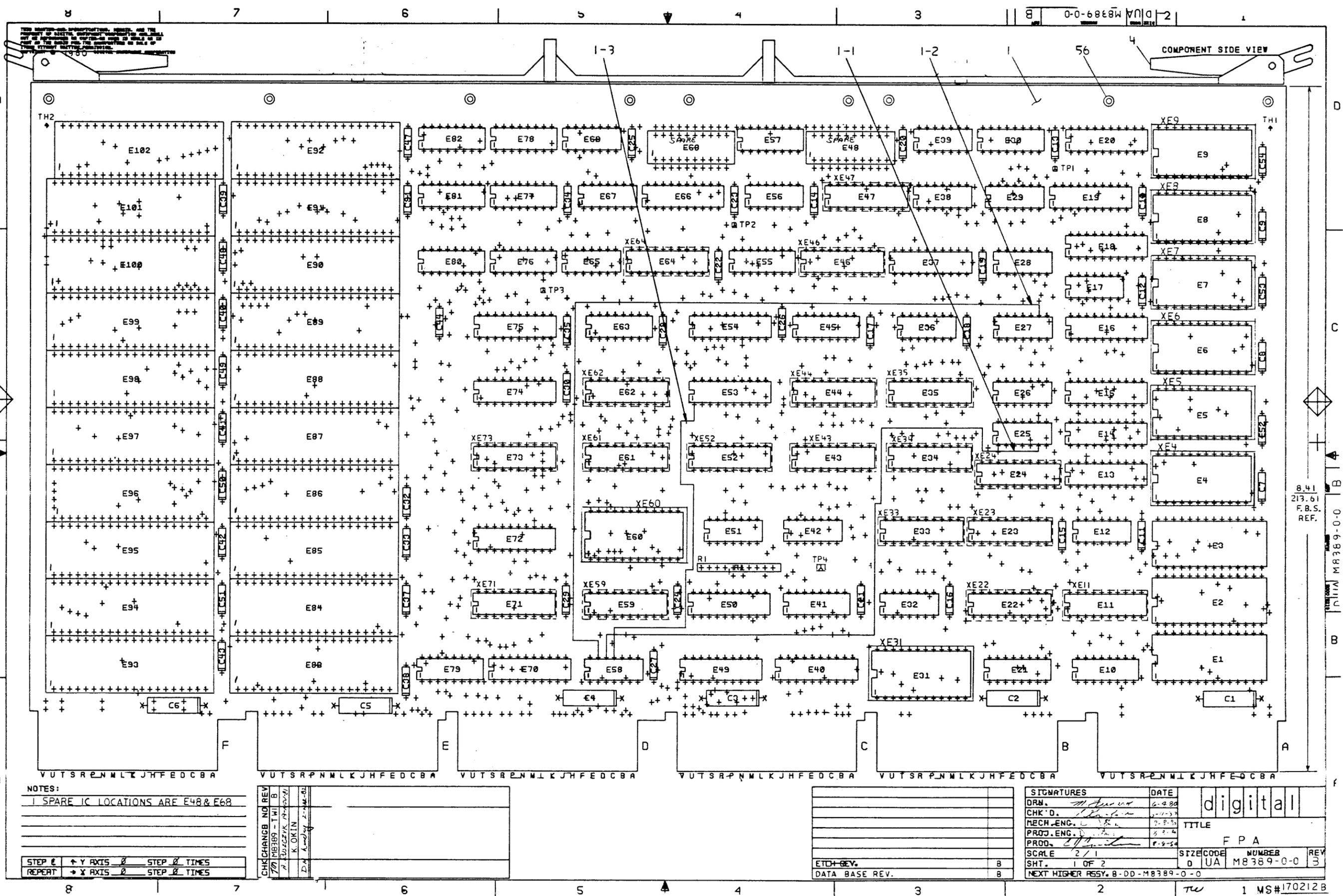
TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL



TITLE	FLOATING POINT ACCELERATOR	SHEET 2 OF 2	SIZE	CODE	NUMBER	REV
			B	DD	FP730-0	A

DRB 108A

TW



NOTES:
 1 SPARE IC LOCATIONS ARE E48 & E68

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

CHG	NO	REV	
770	M8389	-TWI	B

ETD+REV.	B
DATA BASE REV.	B

SIGNATURES		DATE	digital
DRW.		6-9-80	
CHK'D.			
RECH. ENG.			
PROJ. ENG.			
PROD.			
SCALE	2/1	SIZE CODE	NUMBER
SHT.	1 OF 2	0 UA	M8389-0-0
NEXT HIGHER ASSY. B-00-M8389-0-0			REV 3

8.41
 213.61
 F.B.S.
 REF.

MS# 170212B

8

0-0-68891M D
SIZE CODE NUMBER

6

4

3

2

1

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REWORK INSTRUCTIONS: (ECO 1)

- WIRE ADDS SIDE 1:
- 1-1 E25-6 TO E58-12
- 1-2 E58-13 TO E27-9
- 1-3 E58-11 TO E53-1

D

D

C

C

B

B

A

A

REV B
NUMBER
DUA M8389-0-0

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE
F.P.A.

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	M8389-0-0	B
SCALE	NONE	SHEET 2 OF 2

8

7

6

5

4

3

2

1

DRD 138A

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5013886-0-0	5013886-00	FPA	1		C1-C6
			1012084-01	8 MFD 25V +75-10% AL EL	45		C7-C35, C37-C44, C47-C54
			1012784-00	.047 MFD 50V +80-20% CER	1		
			1216988-02	HANDLE, MODULE, HEX TWO EJECTORS	1		
			1215006-04	SKT, IC 20PIN DIP TIN PLATE	18	CONT	XE11, XE22-XE24, XE33-XE35, XE43, XE44, XE46, XE47, XE52, XE59, XE61, XE62, XE64, XE71, XE73
			1215006-06	SKT, IC 24PIN DIP TIN PLATE	8	CONT	XE4-XE9, XE31, XE60
			1312114-01	R NETWORK 8-470 5.0 % 10PIN	1		R1
			1312628-00	R NETWORK 14-176.5 14-375 16PIN	1		E41
			1910532-00	74500 NAND GATE-QUAD 2IN	14		E26, E28, E32, E58
			1910534-00	74504 INVERTER GATE-HEX 1I	2		E38, E42
			1910536-00	74510 NAND GATE-TRIPLE 3IN	2		E39, E56
			1910539-00	74520 NAND GATE-DUAL 4INPU	1		E17
			1910544-00	74574 FF-D DUAL, EDGE TRIGG	2		E27, E36
			1910547-00	745153 MUX 1 OF 4 (DUAL)	1		E57
			1911675-00	745138 DECODER/DEMUX 3-8 LIN	1		E55
			1911712-00	74551 AND-OR GATE-INVERT D	1		E12
			1912096-00	DEC 74586 XOR GATE, QUAD 2IN	1		E65
			1912097-00	SN 745182 LOOK AHD CARRY GEN	1		E76, E78-E82
			1912389-00	74508 AND GATE-QUAD 2IN, PO	1		E25, E29
			1912646-00	LS253 MUX 1 OF 4 (DUAL)	2		E63
			1912746-00	DEC 74537 NAND GATE-QUAD 2IN	1		E51, E67, E69
			1912867-00	LS298 MUX 1 OF 4 2IN W/S	2		E10, E21
			1913245-02	2901A-1 MICROPROCESSOR 4-	20		E83-E102
			1913493-00	745241 OCTAL BUFFER TRI-STA	3		E53, E54, E75
			1913671-00	745374 FF-D OCTAL TRISTATE	3		E13, E18-E20, E37, E50, E66, E72
			1913772-00	AM 2909DC MICROPROGRAM SEQUEN	3		E1-E3
			1914214-00	LS374 FF-D OCTAL EDGE TRIG	1		E16
			1914866-00	AM 93548PCGEN/CHECK PARITY, 4B	3		E30, E45, E77

REVISION HISTORY		BASIC PART NO: M8389		DRN: J. FERGUSON	DATE: 23-JUN-80	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: F. GAROFALO	DATE: 23-JUN-80	TITLE PARTS LIST	
	INITIAL	A	SECTION VARIATION INDEX	DES. ENG: D. STONER	DATE: 29-JUL-80	DOCUMENT NUMBER	
KO	M8389-TW001	B	(A) 00	RESP. ENG.: D. STONER	DATE: 29-JUL-80	SIZE: K	CODE: PL
			(B)	MFG. ENG.: J. CONSIDINE	DATE: 8-AUG-80	NUMBER: M8389-0-DBP	REV: B
			(C)	ASSEMBLY NUMBER: D-UA-M8389-0-0	TOP DOCUMENT NUMBER: B-DD-M8389-0-0	FILE NAME: 21268B.PLS	EDIT #: 5
			(D)				
			(E)				
			(F)				
			(G)				
			(H)				
			(I)				
			(J)				
			(K)				
			(L)				
			(M)				
			(N)				

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AUTOMATED BY PRTLST.3P(44)

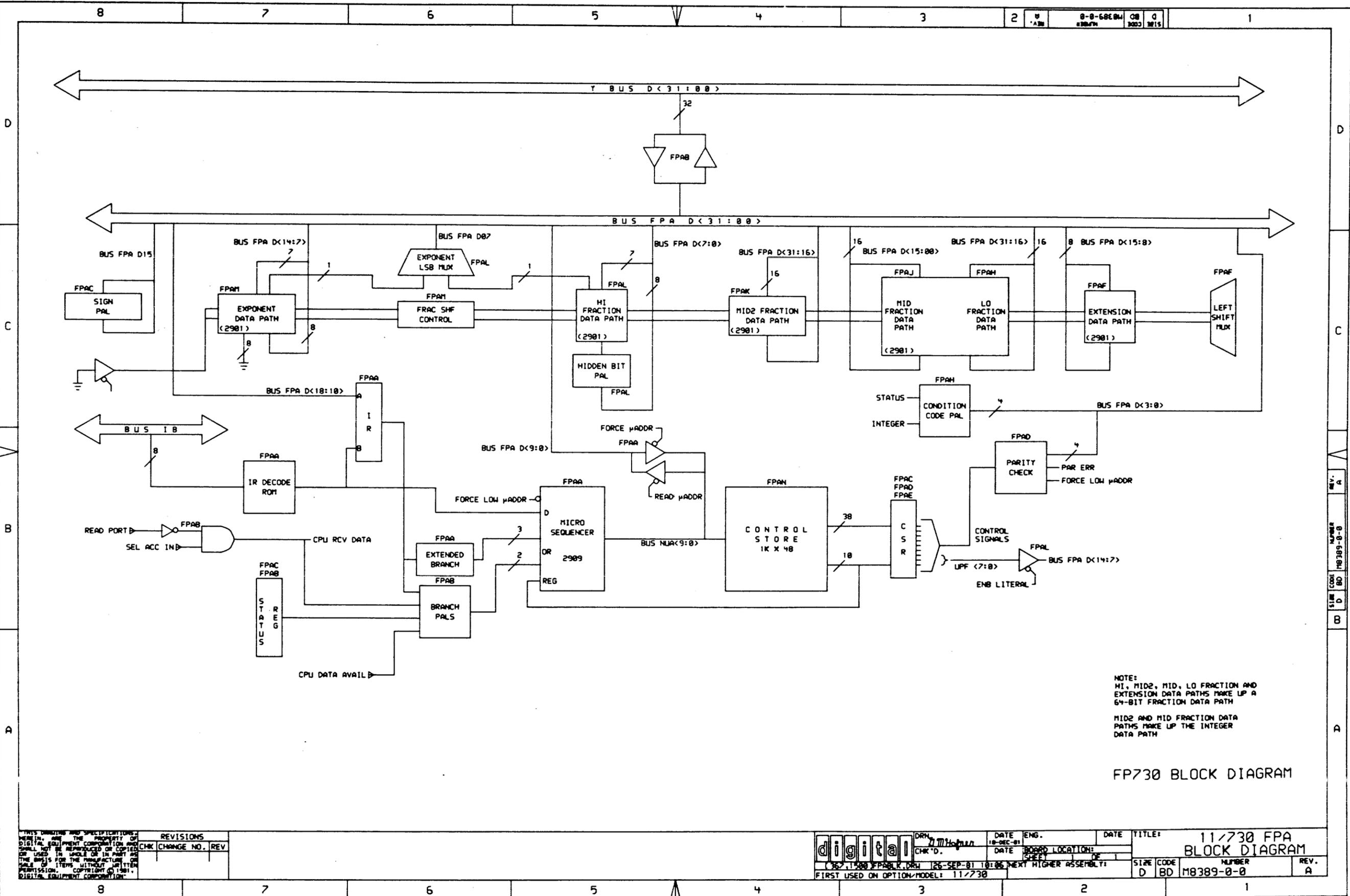
PARTS LIST

SHEET A2 OF A2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
29	39	1915218-00	LS245 TRANSCEIVER, BUS, OCT	6	E14, E15, E40, E49, E70, E74
30	30	23009K4-00	K4-01	1	E25
31	31	23027K3-00	K3-01	1	E23
32	32	23028K3-00	K3-01	1	E47
33	33	23029J5-00	J5-01	1	E11
34	34	23029K3-00	K3-01	1	E46
35	35	23030J5-00	J5-01	1	E24
36	36	23030K3-00	K3-01	1	E44
37	37	23031J5-00	J5-01	1	E33
38	38	23031K3-00	K3-01	1	E43
39	39	23032J5-00	J5-01	1	E22
40	40	23033J5-00	J5-01	1	E9
41	41	23034J5-00	J5-01	1	E7
42	42	23035J5-00	J5-01	1	E6
43	43	23036J5-00	J5-01	1	E5
44	44	23037J5-00	J5-01	1	E1
45	45	23038J5-00	J5-01	1	E64
46	46	23039J5-00	J5-01	1	E73
47	47	23040J5-00	J5-01	1	E59
48	48	23061D1-00	D1-02	1	E31
49	49	23137F3-00	/REPLACED BY 23-161F3-00	1	E34
50	50	23138F3-00	/REPLACED BY 23-162F3-00	1	E4
51	51	23139F3-00	/REPLACED BY 23-163F3-00	1	E6
52	52	23140F3-00	/REPLACED BY 23-164F3-00	1	E8
53	53	23141F3-00	/REPLACED BY 23-165F3-00	1	E7
54	54	23142F3-00	/REPLACED BY 23-166F3-00	1	E9
55	55	23113F3-00	F3-03	1	E60
56	56	9009000-00	EYELET, ROLL FLANGE .1210DX .156	13	
57	57	9009149-00	PIN, STAKING, F.C. BOARD, .025 X	4	
58	58	9105740-55	WIRE (WRAP) 30AWG UL1423	A/R	TP1-TP4

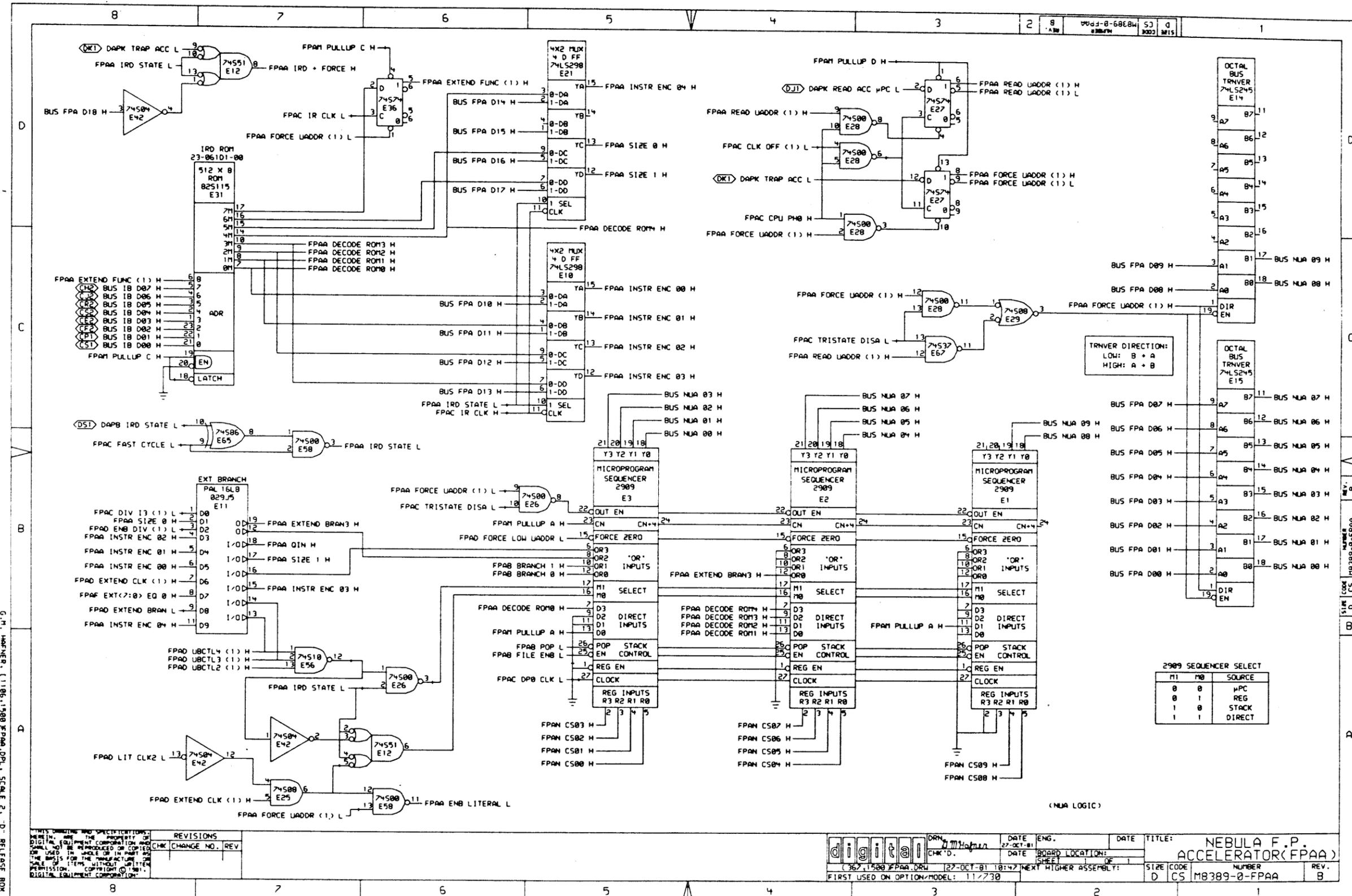
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							FPA		K	PL	M8389-0-DBP	B

G.M. WARNER, (1116,1980) FPAALX.DPL, SCALE 2, "D" RELEASE BOX
 G.M. WARNER FPAALX.PLC(116,1980) 18-DEC-81 17:42



REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. <i>M. Warner</i>	DATE <i>18-DEC-81</i>	ENG.	DATE	TITLE: 11/730 FPA BLOCK DIAGRAM
	CHK'D.	DATE	BOARD LOCATION:		
FIRST USED ON OPTION/MODEL: 11/730					SIZE CODE: D BD
					NUMBER: M8389-0-0
					REV.: A



G.M. HAFNER, (11186,1500) FPA, DFL, SCALE 2, "D", RELEASE BOX
 G.M. HAFNER, FPA, PLOT (1186,1500), 27-OCT-81 11117

REV.	CHANGE NO.	REV.

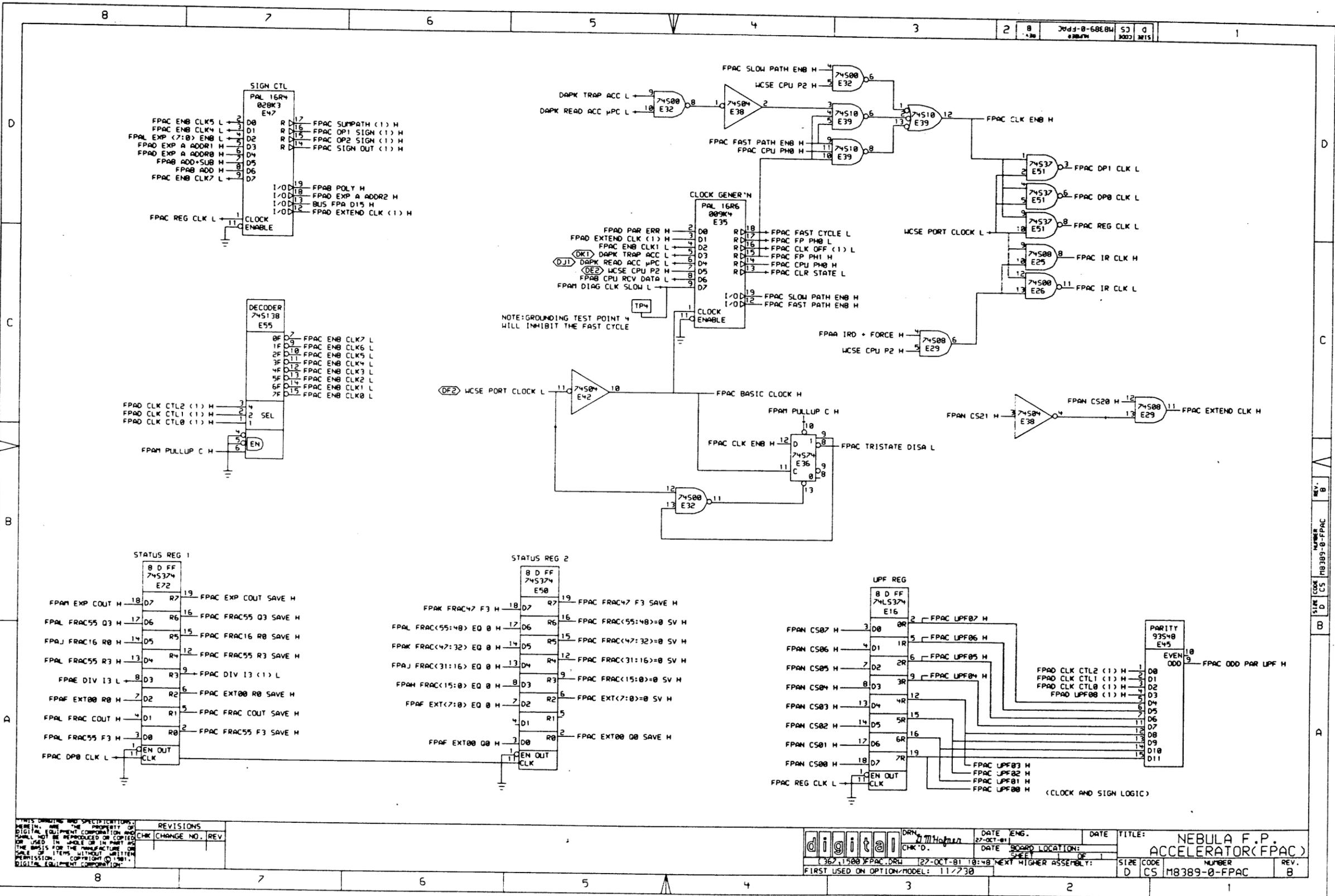
digital

DRN: G.M. Hafner
 DATE: 27-OCT-81
 ENG. DATE: 27-OCT-81
 BOARD LOCATION: 1 OF 1
 SHEET: 1 OF 1
 TITLE: NEBULA F.P. ACCELERATOR (FPA)
 SIZE: D CS M8389-0-FPA
 NUMBER: 11/230
 FIRST USED ON OPTION/MODEL: 11/230
 REV. B

M1	M0	SOURCE
0	0	μPC
0	1	REG
1	0	STACK
1	1	DIRECT

TRNVER DIRECTION:
 LOW: B + A
 HIGH: A + B

(NUA LOGIC)



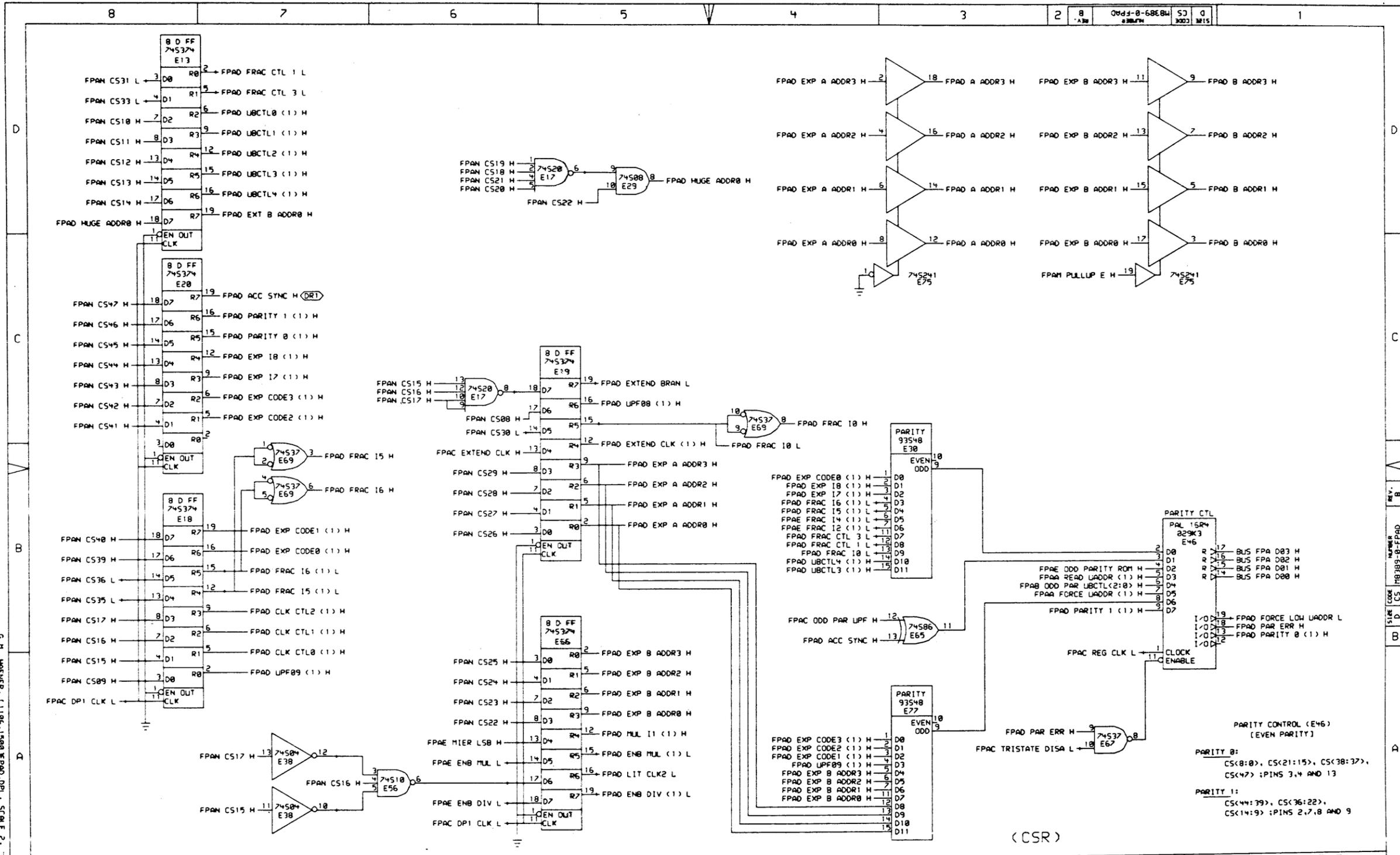
G.M. WARNER, (1186, 1500) FPAC, DPL, SCALE 2, "D" RELEASE BOX
G.M. WARNER, FPAC, PLOT (1186, 1500) 27-OCT-81 11118

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REVISIONS		
CHK	CHANGE NO.	REV

digit@	DRN	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE			NEBULA F.P. ACCELERATOR (FPAC)
FIRST USED ON OPTION MODEL: 11/730		NEXT HIGHER ASSEMBLY:		SIZE	CODE
				D	C5
				NUMBER	REV.
				M8389-0-FPAC	B

REV. B
NUMBER M8389-0-FPAC
SIZE CODE C5
D



G.M. WARNER, 11186, 11908, 11909, 11910, 11911, 11912, 11913, 11914, 11915, 11916, 11917, 11918, 11919, 11920, 11921, 11922, 11923, 11924, 11925, 11926, 11927, 11928, 11929, 11930, 11931, 11932, 11933, 11934, 11935, 11936, 11937, 11938, 11939, 11940, 11941, 11942, 11943, 11944, 11945, 11946, 11947, 11948, 11949, 11950, 11951, 11952, 11953, 11954, 11955, 11956, 11957, 11958, 11959, 11960, 11961, 11962, 11963, 11964, 11965, 11966, 11967, 11968, 11969, 11970, 11971, 11972, 11973, 11974, 11975, 11976, 11977, 11978, 11979, 11980, 11981, 11982, 11983, 11984, 11985, 11986, 11987, 11988, 11989, 11990, 11991, 11992, 11993, 11994, 11995, 11996, 11997, 11998, 11999, 12000.

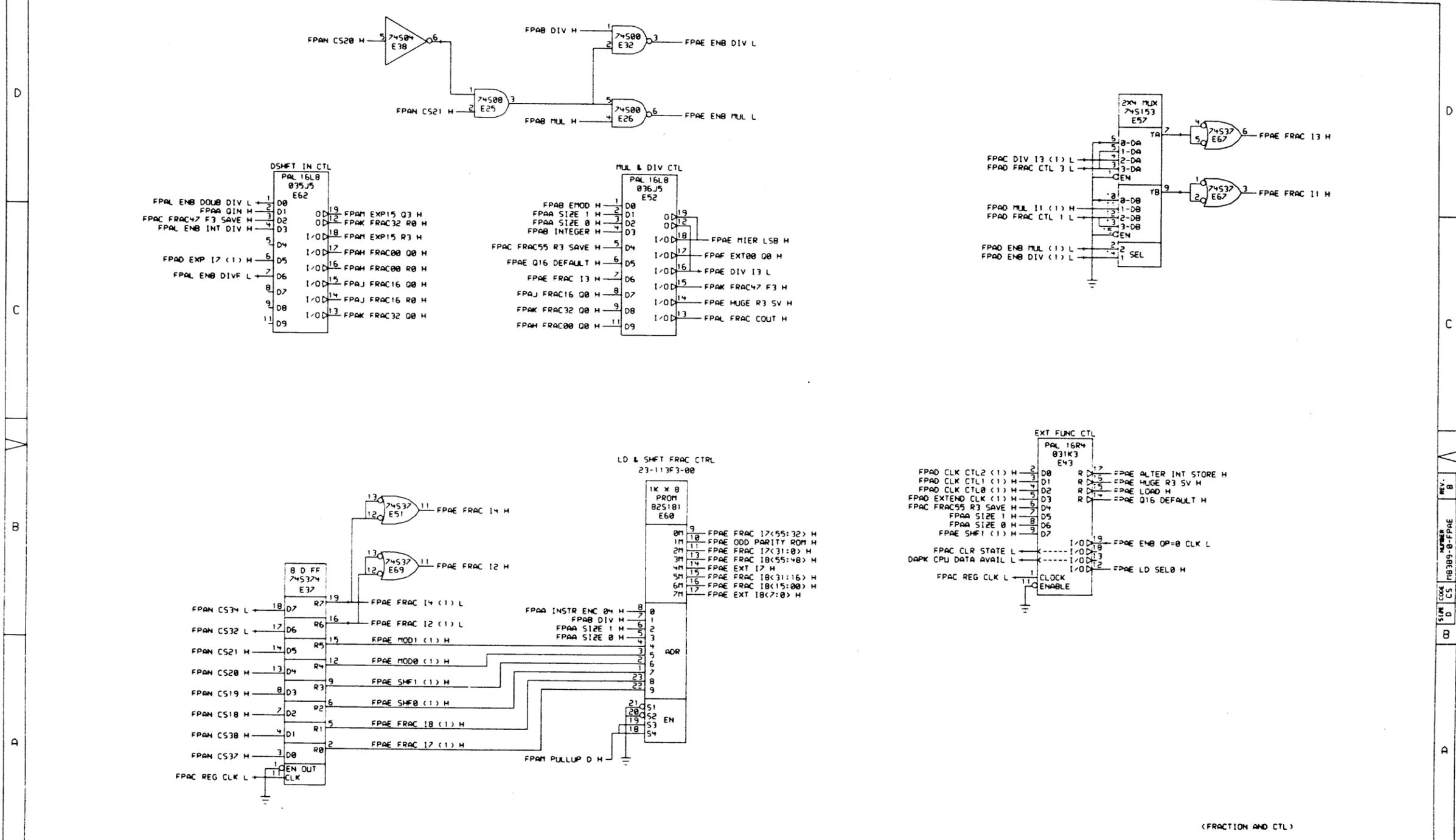
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REV.	CHANGE NO.	REV.

	DRN: <i>M.Hofman</i> CHK'D:	DATE: 27-OCT-81 SHEET: 1 OF 1	ENG. BOARD LOCATION:	DATE:	TITLE: NEBULA F.P. ACCELERATOR (FPAD)
FIRST USED ON OPTION/MODEL: 117730	DATE: 22-OCT-81 18:48	NEXT HIGHER ASSEMBLY:	SIZE: D	CODE: CS	NUMBER: M8389-0-FPAD
					REV. B

PARITY CONTROL (E46)
 [EVEN PARITY]
 PARITY 0:
 CS(8:0), CS(21:15), CS(38:37),
 CS(47); PINS 3,4 AND 13
 PARITY 1:
 CS(44:39), CS(36:22),
 CS(14:9); PINS 2,7,8 AND 9

(CSR)

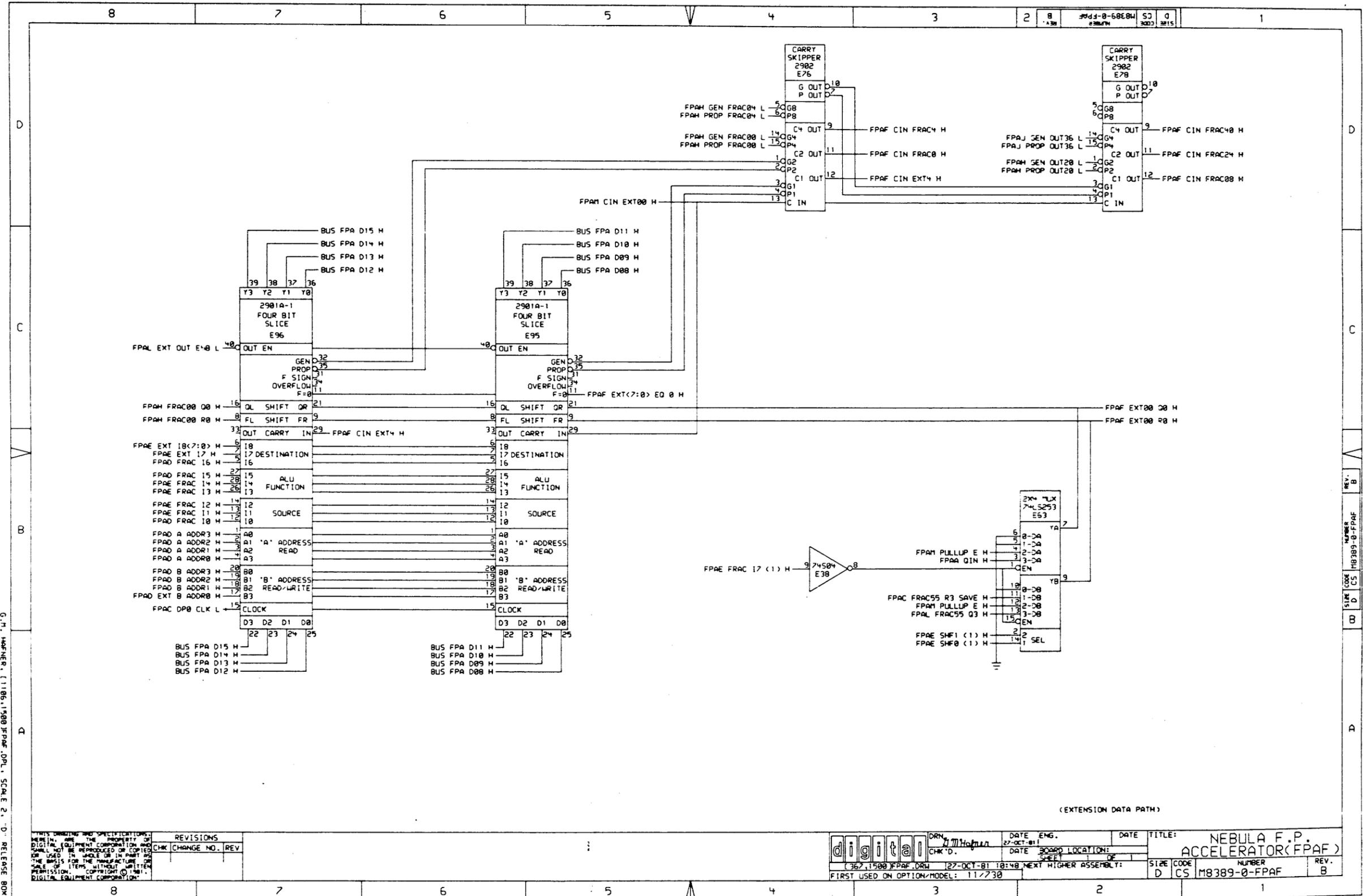


G. H. WAGNER (1186, 1500) FPAE DFL, SCALE 2, D, RELEASE BOX
 G. H. WAGNER FPAE PLOT (1186, 1500) 27-OCT-81 11:19

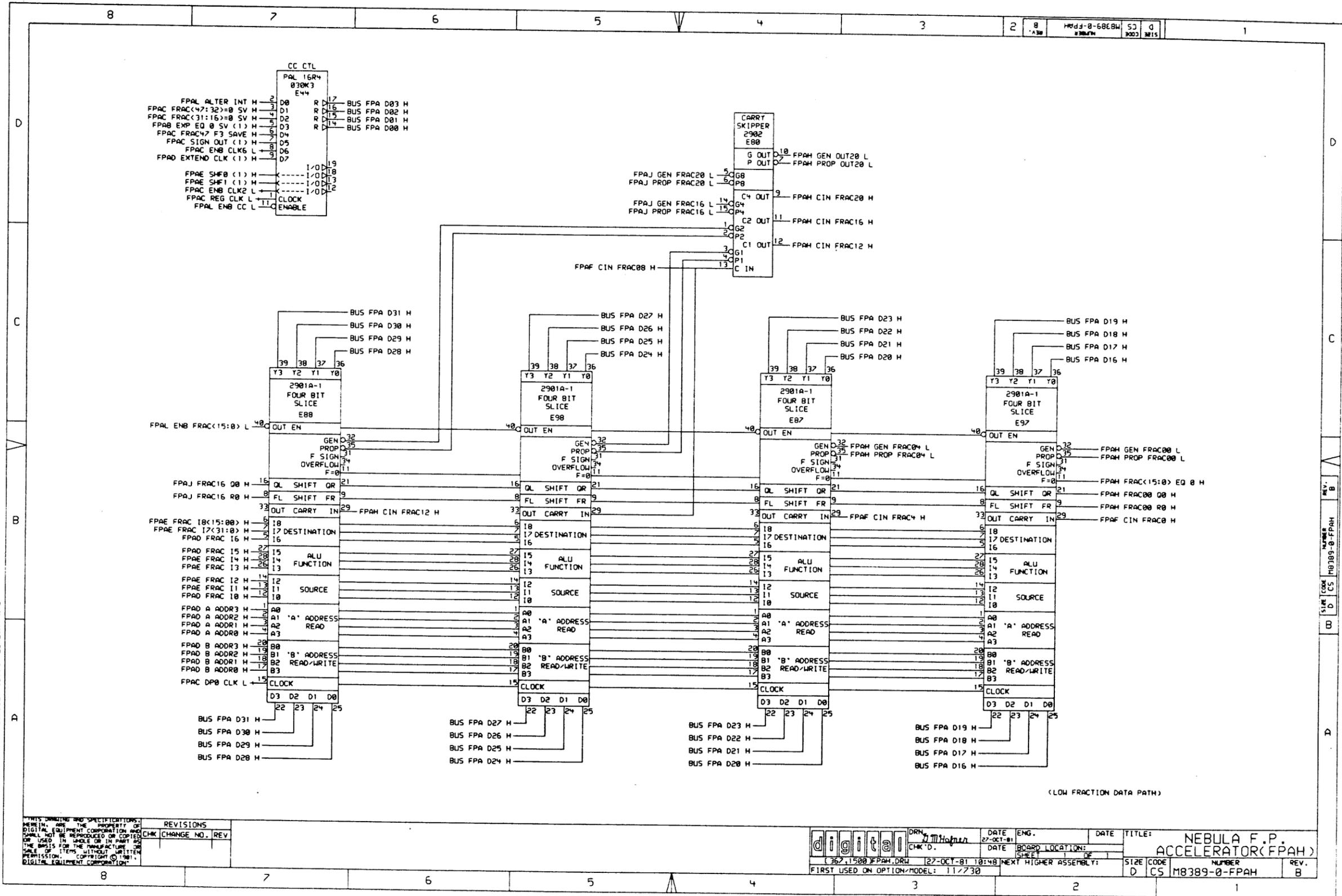
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REVISIONS		
CHK	CHANGE NO.	REV

digit@i	DRN	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE			NEBULA F.P. ACCELERATOR (FPAE)
367,1500 FPAE.DRW		27-OCT-81 10:48			
FIRST USED ON OPTION MODEL: 11/730					
SIZE	CODE	NUMBER	REV.		
D	CS	M8389-0-FPAE	B		



G.M. HAFNER, (1106,1500) FPAF, DPL, SCALE 2: "0" - RELEASE BOX
 G.M. HAFNER, FPAF, PLOT (1106,1500) 27-OCT-81 11:20



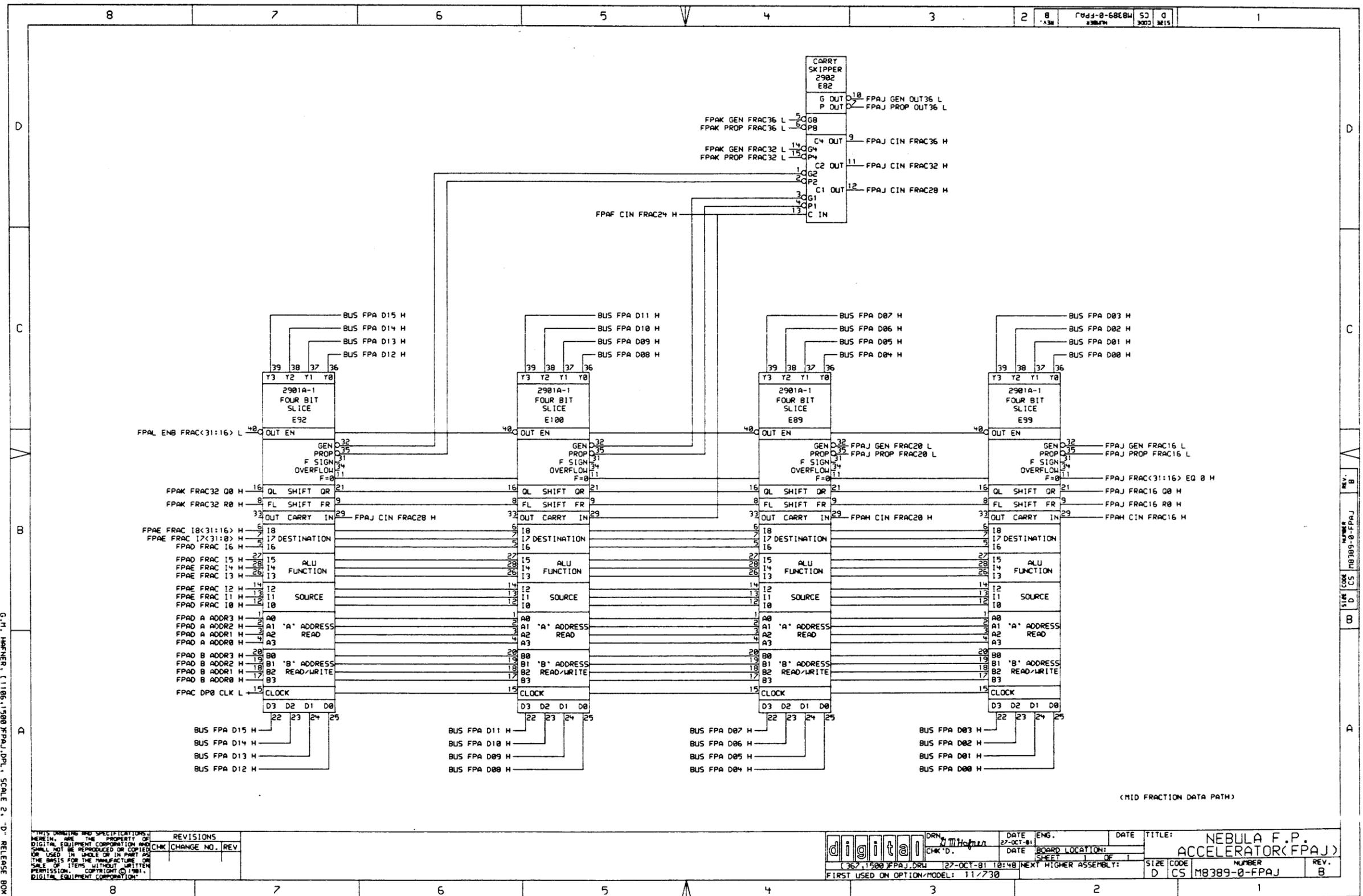
G.H. HAFNER, (1186, 1500) FPAH, DPL, SCALE 2, "D" RELEASE BOX
 G.H. HAFNER FPAH, PLOT 1186, 1500 27-OCT-81 11:20

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REVISIONS	
CHK	CHANGE NO. REV

	DRN: <i>J.H. Hafner</i>	DATE: 27-OCT-81	ENG.	DATE	TITLE: NEBULA F.P. ACCELERATOR (FPAH)
	CHK'D.	DATE: 27-OCT-81	BOARD LOCATION:	SHEET: 1 OF 1	SIZE: D CS
FIRST USED ON OPTION/MODEL: 11/730		NEXT HIGHER ASSEMBLY:		NUMBER: M8389-0-FPAH	REV. B

REV. B
 NUMBER: M8389-0-FPAH
 CS
 D



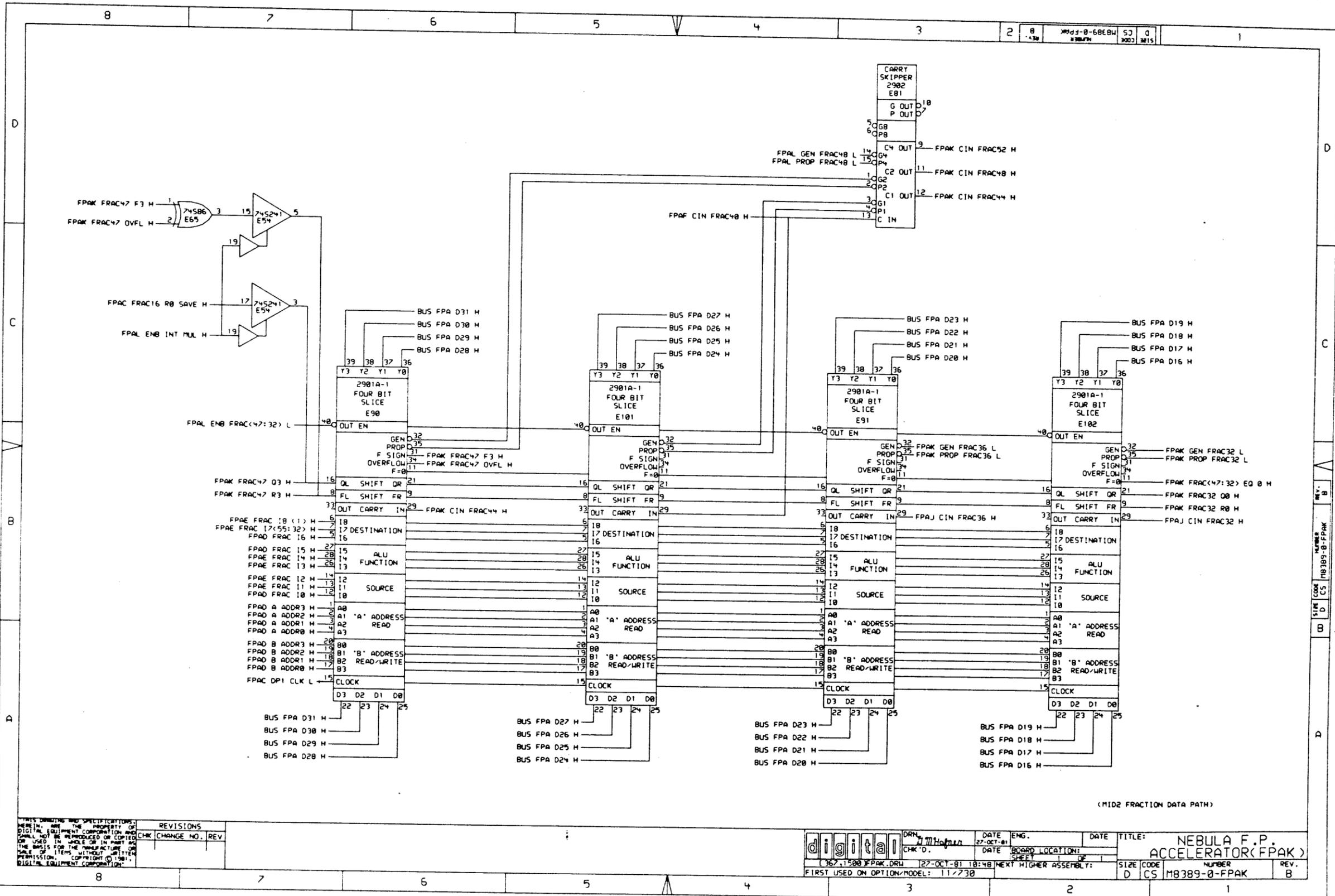
G.M. HARNER, (1186,1500) FPAJ DPL, SCALE 2, D - RELEASE BOX
 G.M. HARNER FPAJ, PLOT (1186,1500) 27-OCT-81 11:20

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REVISIONS	
CHK	CHANGE NO. REV.

	DRN	DATE	ENG.	DATE	ENG.	DATE	TITLE
	CHK'D.	27-OCT-81	27-OCT-81				NEBULA F.P. ACCELERATOR (FPAJ)
(362,1500) FPAJ DRW		27-OCT-81	10:48	NEXT HIGHER ASSEMBLY:			
FIRST USED ON OPTION/MODEL: 11/730							
SIZE	CODE	NUMBER	REV.				
D	CS	M8389-0-FPAJ	B				

(MID FRACTION DATA PATH)

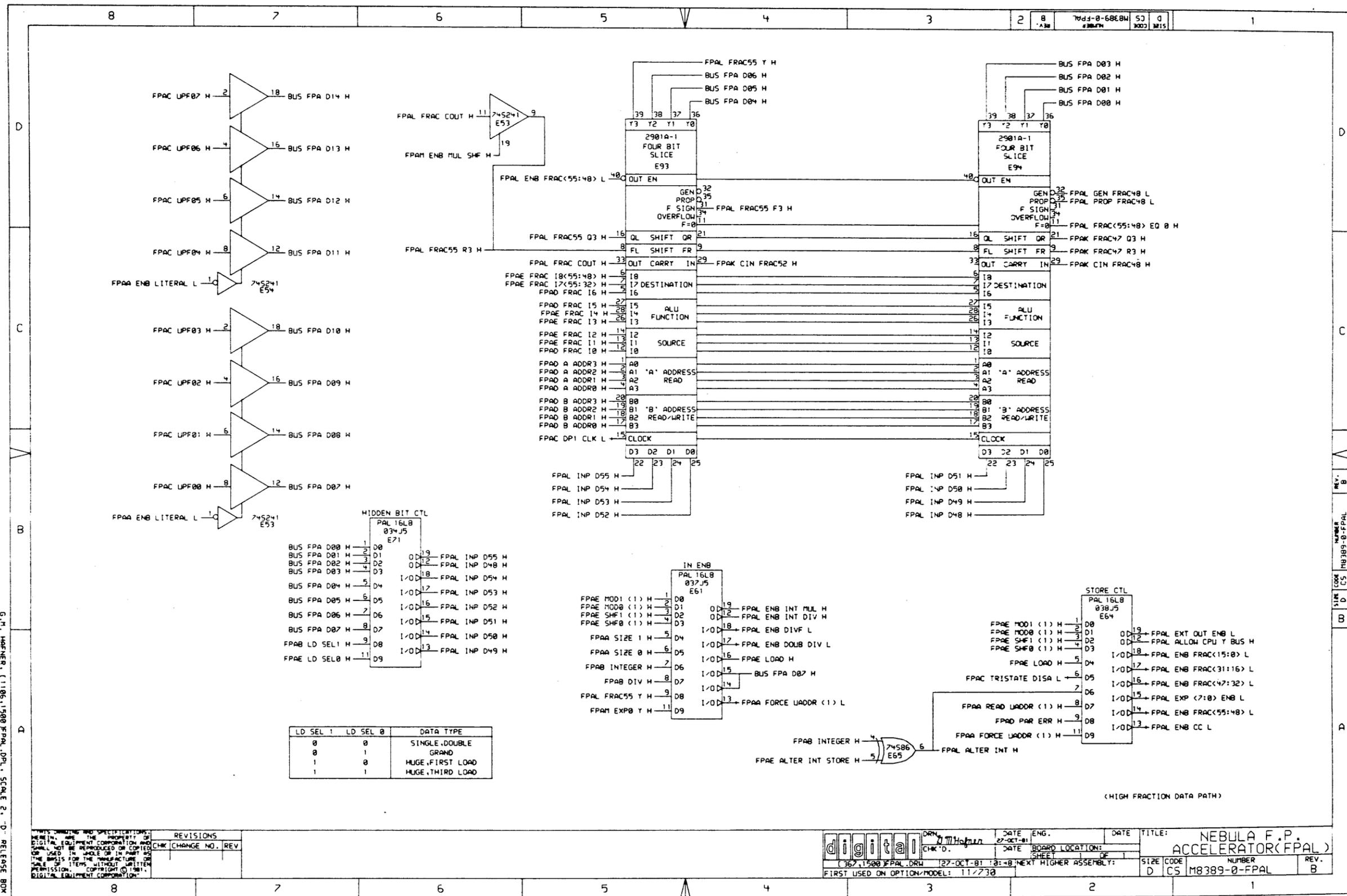


G.M. HARNER, (1186, 1580) FPAK DRU, SCALE 2, 'D' RELEASE BOX
 G.M. HARNER FPAK, PLOT 1186, 1580, 27-OCT-81 1121

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REVISIONS	
CHK	CHANGE NO. REV

digital	DRW. <i>M. Harner</i>	DATE 27-OCT-81	ENG.	DATE	TITLE: NEBULA F.P. ACCELERATOR (FPAK)
	CHK'D.	DATE 27-OCT-81 10:48	BOARD LOCATION:	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8389-0-FPAK B
FIRST USED ON OPTION MODEL: 117730		NEXT HIGHER ASSEMBLY:			



G.H. WARNER, (1106, 1500) FPAL, DPL, SCALE 2, "D" RELEASE BOX
 G.H. WARNER, FPAL, PLOT (106, 1500) 27-OCT-81 11:21

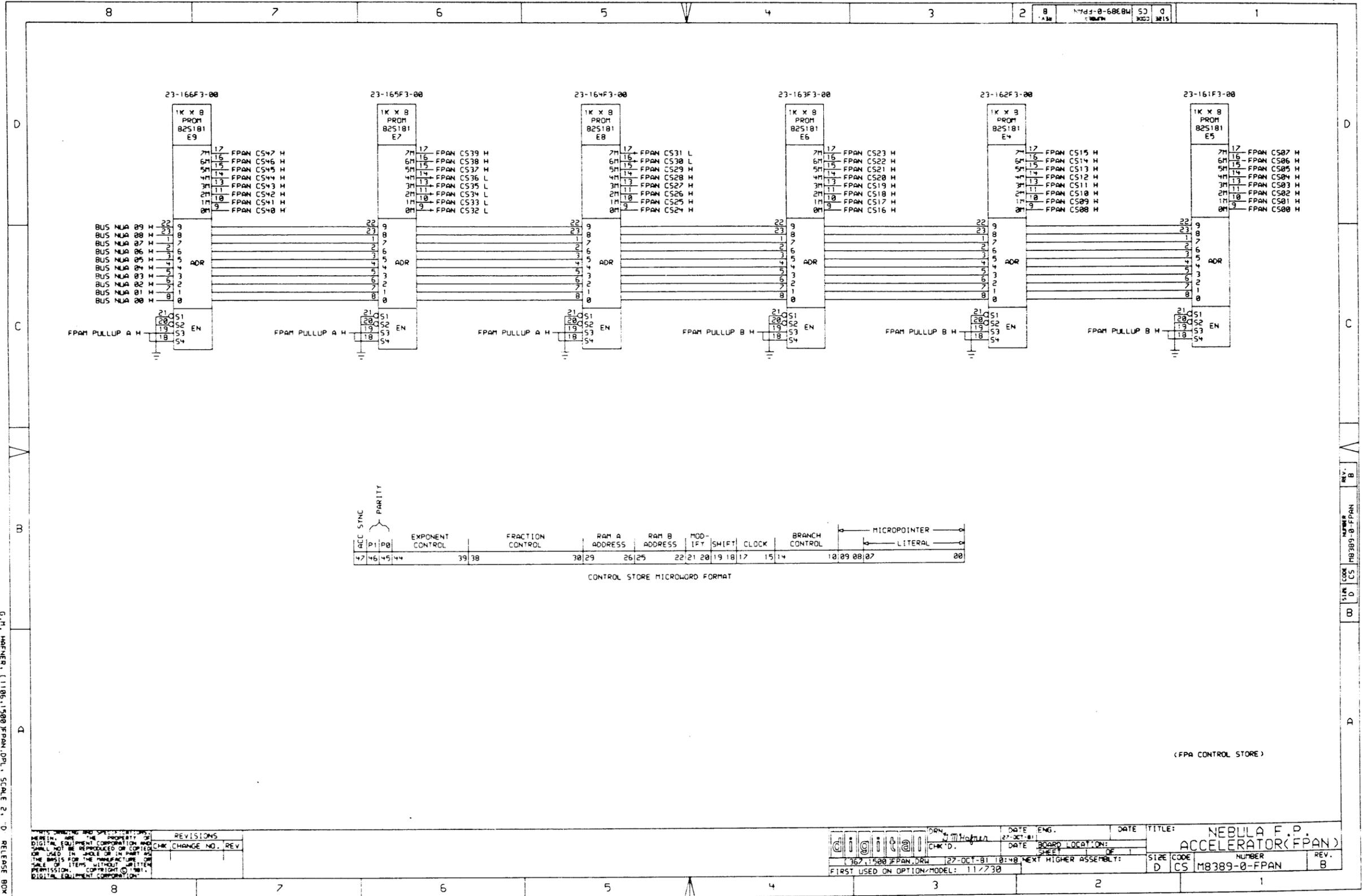
REVISIONS		
CHK	CHANGE NO.	REV

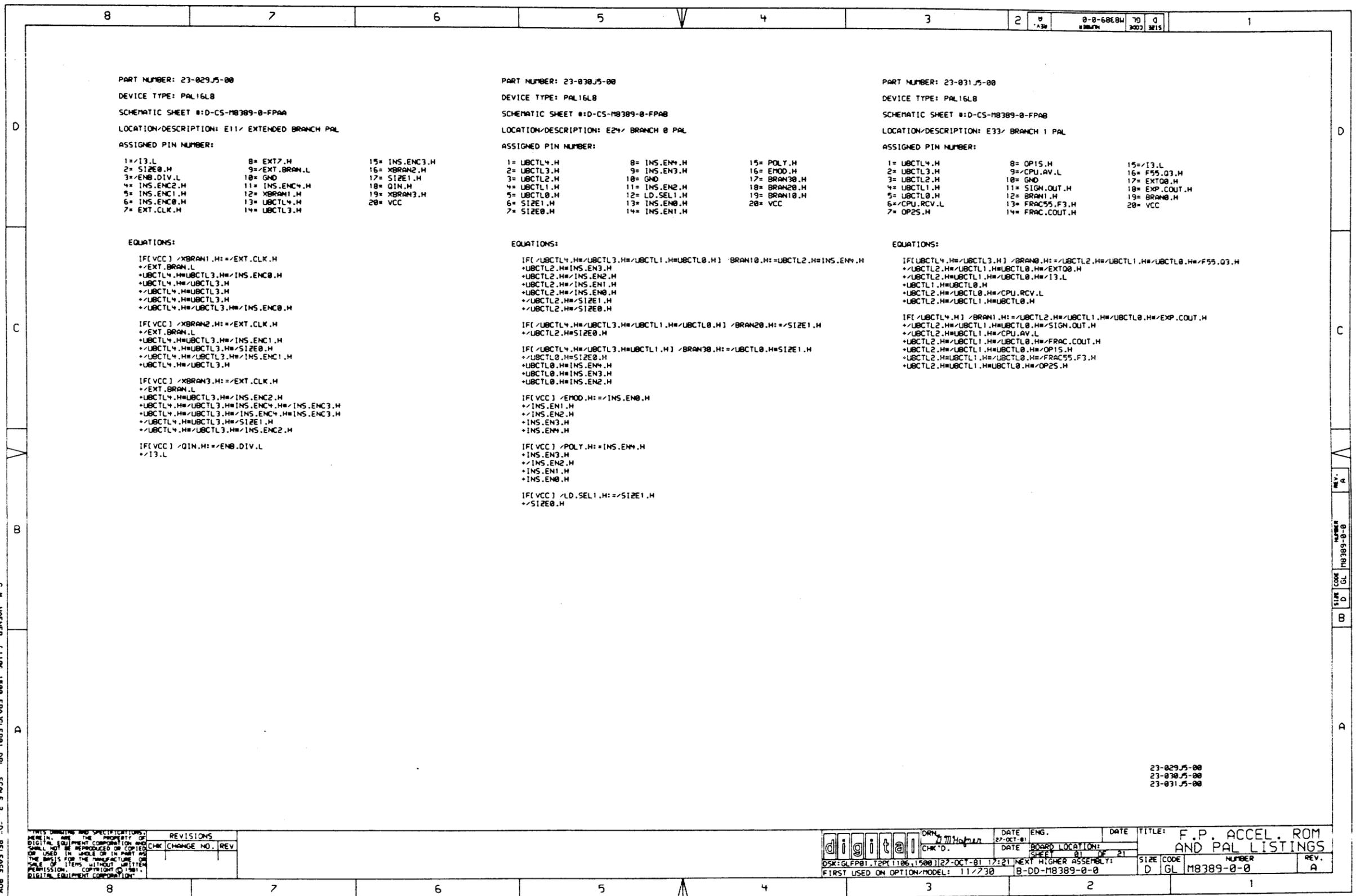
LD SEL 1	LD SEL 0	DATA TYPE
0	0	SINGLE, DOUBLE
0	1	GRAND
1	0	HUGE, FIRST LOAD
1	1	HUGE, THIRD LOAD

digital DRN: M. Hoffman DATE: 27-OCT-81 ENG. DATE: TITLE: NEBULA F.P. ACCELERATOR (FPAL)

SIZE CODE: D CS M8389-0-FPAL NUMBER: 1 REV: B

FIRST USED ON OPTION/MODEL: 11/738





PART NUMBER: 23-029J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPA8
 LOCATION/DESCRIPTION: E11/ EXTENDED BRANCH PAL
 ASSIGNED PIN NUMBER:
 1= /13.L 8= EXT7.H 15= INS.ENC3.H
 2= SIZE0.H 9= EXT.BRAN.L 16= XBRAN2.H
 3= ENB.DIV.L 10= GND 17= SIZE1.H
 4= INS.ENC2.H 11= INS.ENC4.H 18= DIN.H
 5= INS.ENC1.H 12= XBRAN1.H 19= XBRAN3.H
 6= INS.ENC0.H 13= UBCTL4.H 20= VCC
 7= EXT.CLK.H 14= UBCTL3.H

EQUATIONS:
 IF[VCC] /XBRAN1.H:=EXT.CLK.H
 +EXT.BRAN.L
 +UBCTL4.H#UBCTL3.H#INS.ENC0.H
 +UBCTL4.H#UBCTL3.H
 +UBCTL4.H#UBCTL3.H
 +UBCTL4.H#UBCTL3.H#INS.ENC0.H
 IF[VCC] /XBRAN2.H:=EXT.CLK.H
 +EXT.BRAN.L
 +UBCTL4.H#UBCTL3.H#INS.ENC1.H
 +UBCTL4.H#UBCTL3.H#SIZE0.H
 +UBCTL4.H#UBCTL3.H#INS.ENC1.H
 +UBCTL4.H#UBCTL3.H
 IF[VCC] /XBRAN3.H:=EXT.CLK.H
 +EXT.BRAN.L
 +UBCTL4.H#UBCTL3.H#INS.ENC2.H
 +UBCTL4.H#UBCTL3.H#INS.ENC4.H#INS.ENC3.H
 +UBCTL4.H#UBCTL3.H#INS.ENC4.H#INS.ENC3.H
 +UBCTL4.H#UBCTL3.H#SIZE1.H
 +UBCTL4.H#UBCTL3.H#INS.ENC2.H
 IF[VCC] /DIN.H:=ENB.DIV.L
 +/13.L

PART NUMBER: 23-030J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPA8
 LOCATION/DESCRIPTION: E24/ BRANCH 0 PAL
 ASSIGNED PIN NUMBER:
 1= UBCTL4.H 8= INS.EN4.H 15= POLY.H
 2= UBCTL3.H 9= INS.EN3.H 16= EMOD.H
 3= UBCTL2.H 10= GND 17= BRAN30.H
 4= UBCTL1.H 11= INS.EN2.H 18= BRAN20.H
 5= UBCTL0.H 12= LD.SEL1.H 19= BRAN10.H
 6= SIZE1.H 13= INS.EN0.H 20= VCC
 7= SIZE0.H 14= INS.EN1.H

EQUATIONS:
 IF[UBCTL4.H#UBCTL3.H#UBCTL1.H#UBCTL0.H] /BRAN10.H:=UBCTL2.H#INS.EN4.H
 +UBCTL2.H#INS.EN3.H
 +UBCTL2.H#INS.EN2.H
 +UBCTL2.H#INS.EN1.H
 +UBCTL2.H#INS.EN0.H
 +UBCTL2.H#SIZE1.H
 +UBCTL2.H#SIZE0.H
 IF[UBCTL4.H#UBCTL3.H#UBCTL1.H#UBCTL0.H] /BRAN20.H:=SIZE1.H
 +UBCTL2.H#SIZE0.H
 IF[UBCTL4.H#UBCTL3.H#UBCTL1.H] /BRAN30.H:=UBCTL0.H#SIZE1.H
 +UBCTL0.H#INS.EN4.H
 +UBCTL0.H#INS.EN3.H
 +UBCTL0.H#INS.EN2.H
 IF[VCC] /EMOD.H:=INS.EN0.H
 +INS.EN1.H
 +INS.EN2.H
 +INS.EN3.H
 +INS.EN4.H
 IF[VCC] /POLY.H:=INS.EN4.H
 +INS.EN3.H
 +INS.EN2.H
 +INS.EN1.H
 +INS.EN0.H
 IF[VCC] /LD.SEL1.H:=SIZE1.H
 +SIZE0.H

PART NUMBER: 23-031J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPA8
 LOCATION/DESCRIPTION: E33/ BRANCH 1 PAL
 ASSIGNED PIN NUMBER:
 1= UBCTL4.H 8= OP15.H 15= /13.L
 2= UBCTL3.H 9= CPU.AV.L 16= F55.Q3.H
 3= UBCTL2.H 10= GND 17= EXT00.H
 4= UBCTL1.H 11= SIGN.OUT.H 18= EXP.COUT.H
 5= UBCTL0.H 12= BRAN1.H 19= BRAN0.H
 6= CPU.RCV.L 13= FRAC55.F3.H 20= VCC
 7= OP25.H 14= FRAC.COUT.H

EQUATIONS:
 IF[UBCTL4.H#UBCTL3.H] /BRAN0.H:=UBCTL2.H#UBCTL1.H#UBCTL0.H#F55.Q3.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#EXT00.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#13.L
 +UBCTL1.H#UBCTL0.H
 +UBCTL2.H#UBCTL1.H#CPU.RCV.L
 +UBCTL2.H#UBCTL1.H#UBCTL0.H
 IF[UBCTL4.H] /BRAN1.H:=UBCTL2.H#UBCTL1.H#UBCTL0.H#EXP.COUT.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#SIGN.OUT.H
 +UBCTL2.H#UBCTL1.H#CPU.AV.L
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#FRAC.COUT.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#OP15.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#FRAC55.F3.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H#OP25.H

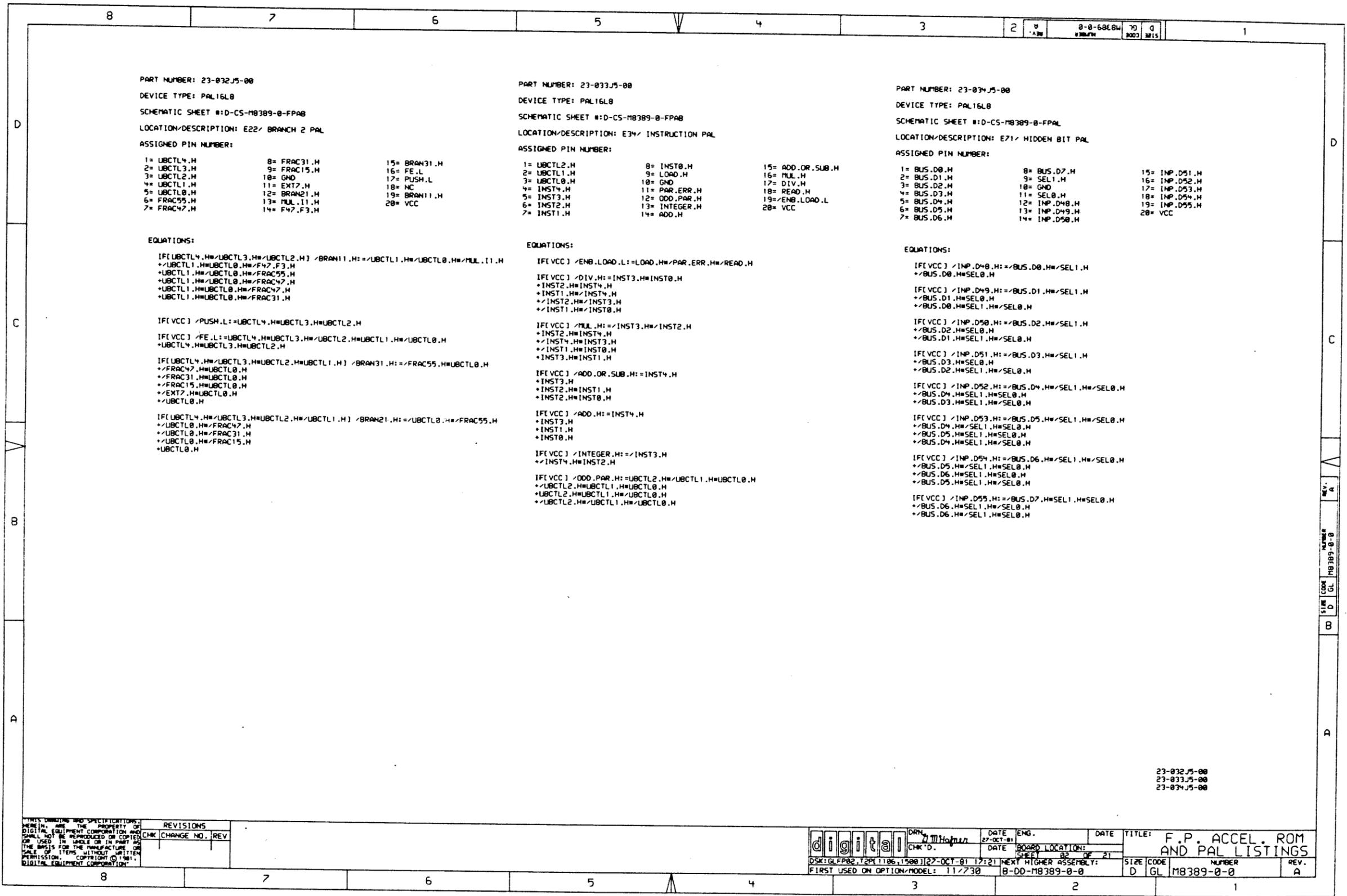
23-029J5-00
 23-030J5-00
 23-031J5-00

G.M. HARNER, (1106,1500) FPA8/FB8, DPL, SCALE 2:1, RELEASE BOX
 G.M. HARNER, GLEP81, PLOX(1106,1500), 27-OCT-81 17:190

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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. M.Holman	DATE ENG. 27-OCT-81	DATE	TITLE: F.P. ACCEL. ROM AND PAL LISTINGS
	CHK'D.	DATE BOARD LOCATION: SHEET 81 OF 21		
OSK:GLEP81.T2P(1106,1500)127-OCT-81 17:21 NEXT HIGHER ASSEMBLY:		SIZE CODE D GL	NUMBER M8389-0-0	REV. A
FIRST USED ON OPTION/MODEL: 117730		B-DD-M8389-0-0		



PART NUMBER: 23-032J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAB
 LOCATION/DESCRIPTION: E22/ BRANCH 2 PAL
 ASSIGNED PIN NUMBER:

- 1= UBCTL4.H 8= FRAC31.H 15= BRAN31.H
- 2= UBCTL3.H 9= FRAC15.H 16= FE.L
- 3= UBCTL2.H 10= GND 17= PUSH.L
- 4= UBCTL1.H 11= EXT7.H 18= NC
- 5= UBCTL0.H 12= BRAN21.H 19= BRAN11.H
- 6= FRAC55.H 13= MUL.I1.H 20= VCC
- 7= FRAC47.H 14= F47.F3.H

EQUATIONS:

IF(UBCTL4.H#UBCTL3.H#UBCTL2.H) /BRAN11.H:=UBCTL1.H#UBCTL0.H#MUL.I1.H
 +UBCTL1.H#UBCTL0.H#F47.F3.H
 +UBCTL1.H#UBCTL0.H#FRAC55.H
 +UBCTL1.H#UBCTL0.H#FRAC47.H
 +UBCTL1.H#UBCTL0.H#FRAC31.H

IF(VCC) /PUSH.L:=UBCTL4.H#UBCTL3.H#UBCTL2.H

IF(VCC) /FE.L:=UBCTL4.H#UBCTL3.H#UBCTL2.H#UBCTL1.H#UBCTL0.H
 +UBCTL4.H#UBCTL3.H#UBCTL2.H

IF(UBCTL4.H#UBCTL3.H#UBCTL2.H#UBCTL1.H) /BRAN31.H:=FRAC55.H#UBCTL0.H
 +FRAC47.H#UBCTL0.H
 +FRAC31.H#UBCTL0.H
 +EXT7.H#UBCTL0.H
 +UBCTL0.H

IF(UBCTL4.H#UBCTL3.H#UBCTL2.H#UBCTL1.H) /BRAN21.H:=UBCTL0.H#FRAC55.H
 +UBCTL0.H#FRAC47.H
 +UBCTL0.H#FRAC31.H
 +UBCTL0.H#FRAC15.H
 +UBCTL0.H

PART NUMBER: 23-033J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAB
 LOCATION/DESCRIPTION: E34/ INSTRUCTION PAL
 ASSIGNED PIN NUMBER:

- 1= UBCTL2.H 8= INST0.H 15= ADD.OR.SUB.H
- 2= UBCTL1.H 9= LOAD.H 16= MUL.H
- 3= UBCTL0.H 10= GND 17= DIV.H
- 4= INST4.H 11= PAR.ERR.H 18= READ.H
- 5= INST3.H 12= ODD.PAR.H 19= ENB.LOAD.L
- 6= INST2.H 13= INTEGER.H 20= VCC
- 7= INST1.H 14= ADD.H

EQUATIONS:

IF(VCC) /ENB.LOAD.L:=LOAD.H#PAR.ERR.H#READ.H

IF(VCC) /DIV.H:=INST3.H#INST0.H
 +INST2.H#INST4.H
 +INST1.H#INST4.H
 +INST2.H#INST3.H
 +INST1.H#INST0.H

IF(VCC) /MUL.H:=INST3.H#INST2.H
 +INST2.H#INST4.H
 +INST4.H#INST3.H
 +INST1.H#INST0.H
 +INST3.H#INST1.H

IF(VCC) /ADD.OR.SUB.H:=INST4.H
 +INST3.H
 +INST2.H#INST1.H
 +INST2.H#INST0.H

IF(VCC) /ADD.H:=INST4.H
 +INST3.H
 +INST1.H
 +INST0.H

IF(VCC) /INTEGER.H:=INST3.H
 +INST4.H#INST2.H

IF(VCC) /ODD.PAR.H:=UBCTL2.H#UBCTL1.H#UBCTL0.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H
 +UBCTL2.H#UBCTL1.H#UBCTL0.H

PART NUMBER: 23-034J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAL
 LOCATION/DESCRIPTION: E71/ HIDDEN BIT PAL
 ASSIGNED PIN NUMBER:

- 1= BUS.D0.H 8= BUS.D7.H 15= INP.D51.H
- 2= BUS.D1.H 9= SEL1.H 16= INP.D52.H
- 3= BUS.D2.H 10= GND 17= INP.D53.H
- 4= BUS.D3.H 11= SEL0.H 18= INP.D54.H
- 5= BUS.D4.H 12= INP.D48.H 19= INP.D55.H
- 6= BUS.D5.H 13= INP.D49.H 20= VCC
- 7= BUS.D6.H 14= INP.D50.H

EQUATIONS:

IF(VCC) /INP.D48.H:=BUS.D0.H#SEL1.H
 +BUS.D0.H#SEL0.H

IF(VCC) /INP.D49.H:=BUS.D1.H#SEL1.H
 +BUS.D1.H#SEL0.H
 +BUS.D0.H#SEL1.H#SEL0.H

IF(VCC) /INP.D50.H:=BUS.D2.H#SEL1.H
 +BUS.D2.H#SEL0.H
 +BUS.D1.H#SEL1.H#SEL0.H

IF(VCC) /INP.D51.H:=BUS.D3.H#SEL1.H
 +BUS.D3.H#SEL0.H
 +BUS.D2.H#SEL1.H#SEL0.H

IF(VCC) /INP.D52.H:=BUS.D4.H#SEL1.H#SEL0.H
 +BUS.D4.H#SEL1.H#SEL0.H
 +BUS.D3.H#SEL1.H#SEL0.H

IF(VCC) /INP.D53.H:=BUS.D5.H#SEL1.H#SEL0.H
 +BUS.D5.H#SEL1.H#SEL0.H
 +BUS.D4.H#SEL1.H#SEL0.H
 +BUS.D4.H#SEL1.H#SEL0.H

IF(VCC) /INP.D54.H:=BUS.D6.H#SEL1.H#SEL0.H
 +BUS.D6.H#SEL1.H#SEL0.H
 +BUS.D5.H#SEL1.H#SEL0.H
 +BUS.D5.H#SEL1.H#SEL0.H

IF(VCC) /INP.D55.H:=BUS.D7.H#SEL1.H#SEL0.H
 +BUS.D6.H#SEL1.H#SEL0.H
 +BUS.D6.H#SEL1.H#SEL0.H

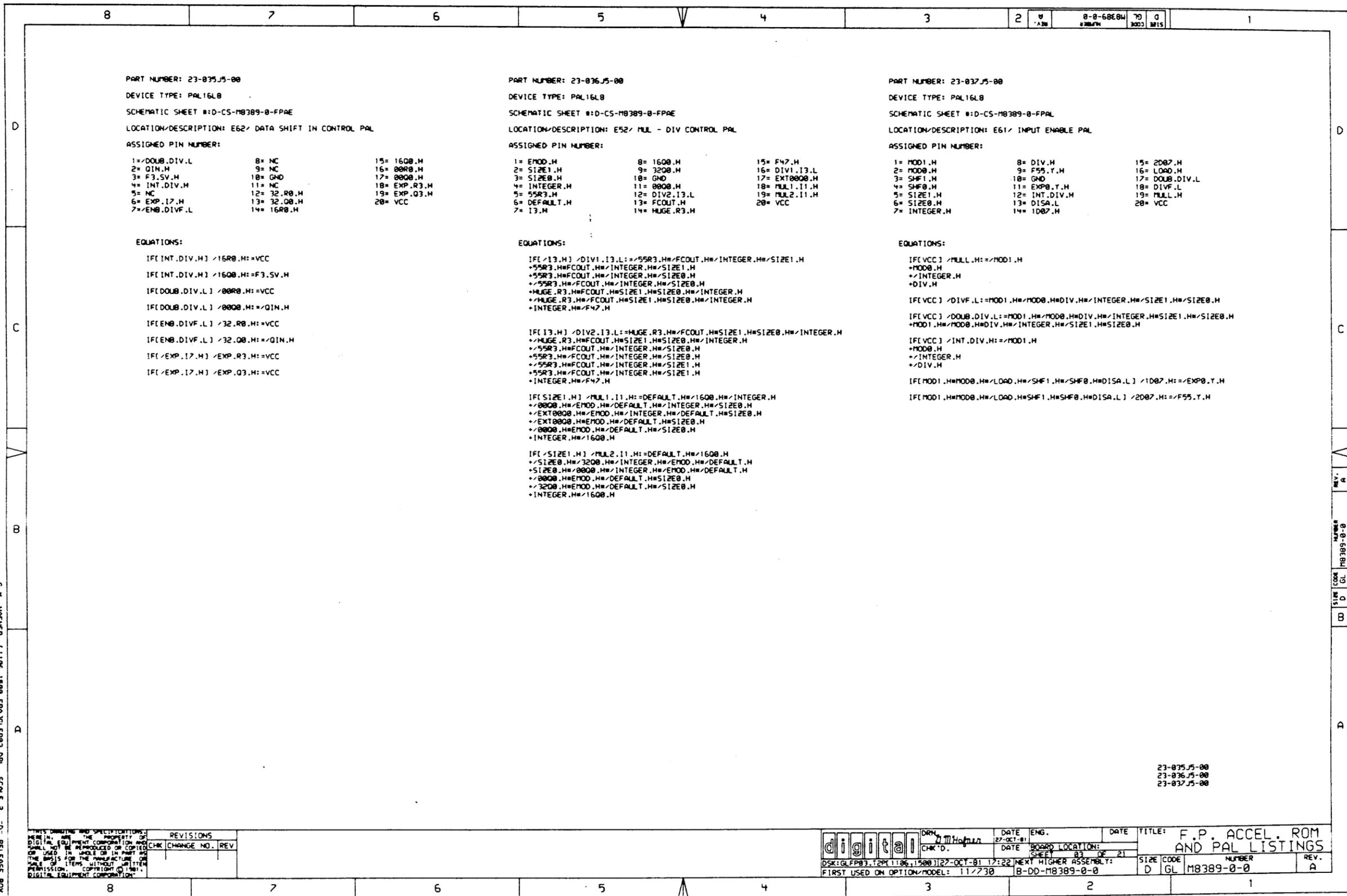
23-032J5-00
 23-033J5-00
 23-034J5-00

G.M. HARNER, (1196,1500) FPA JGLFPA2.DPL, SCALE 2, "D" RELEASE BOX
 G.M. HARNER, GLFPA2.P/DI.1196,1500] 27-OCT-81 17:51

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REVISIONS	
CHK	CHANGE NO. REV

digital	DATE	ENG.	DATE	TITLE:
	27-OCT-81	Hofner		F.P. ACCEL. ROM AND PAL LISTINGS
	DATE	BOARD LOCATION:		
	27-OCT-81 17:21			
	FIRST USED ON OPTION/MODEL:	NEXT HIGHER ASSEMBLY:	SIZE	CODE
	11/730	B-DD-M8389-0-0	D	GL
			NUMBER	REV.
			M8389-0-0	A



PART NUMBER: 23-035J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAE
 LOCATION/DESCRIPTION: E62/ DATA SHIFT IN CONTROL PAL
 ASSIGNED PIN NUMBER:
 1= /DOUB.DIV.L 8= NC 15= 1600.H
 2= QIN.H 9= NC 16= 0000.H
 3= F3.SV.H 10= GND 17= 0000.H
 4= INT.DIV.H 11= NC 18= EXP.R3.H
 5= NC 12= 32.R0.H 19= EXP.Q3.H
 6= EXP.I7.H 13= 32.O0.H 20= VCC
 7= /ENB.DIV.L 14= 16R0.H

EQUATIONS:
 IF[INT.DIV.H] /16R0.H:=VCC
 IF[INT.DIV.H] /1600.H:=F3.SV.H
 IF[DOUB.DIV.L] /0000.H:=VCC
 IF[DOUB.DIV.L] /0000.H:=/QIN.H
 IF[ENB.DIV.L] /32.R0.H:=VCC
 IF[ENB.DIV.L] /32.O0.H:=/QIN.H
 IF[EXP.I7.H] /EXP.R3.H:=VCC
 IF[EXP.I7.H] /EXP.Q3.H:=VCC

PART NUMBER: 23-036J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAE
 LOCATION/DESCRIPTION: E52/ MUL - DIV CONTROL PAL
 ASSIGNED PIN NUMBER:
 1= EMOD.H 8= 1600.H 15= F47.H
 2= SIZE1.H 9= 3200.H 16= DIV1.I3.L
 3= SIZE0.H 10= GND 17= EXT0000.H
 4= INTEGER.H 11= 0000.H 18= MUL1.I1.H
 5= 55R3.H 12= DIV2.I3.L 19= MUL2.I1.H
 6= DEFAULT.H 13= FCOUL.H 20= VCC
 7= I3.H 14= HUGE.R3.H

EQUATIONS:
 IF[I3.H] /DIV1.I3.L:=55R3.H/FCOUL.H/INTEGER.H/SIZE1.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE1.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE0.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE0.H
 *HUGE.R3.H/FCOUL.H/SIZE1.H/SIZE0.H/INTEGER.H
 *HUGE.R3.H/FCOUL.H/SIZE1.H/SIZE0.H/INTEGER.H
 IF[I3.H] /DIV2.I3.L:=HUGE.R3.H/FCOUL.H/SIZE1.H/SIZE0.H/INTEGER.H
 *HUGE.R3.H/FCOUL.H/SIZE1.H/SIZE0.H/INTEGER.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE0.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE0.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE1.H
 *55R3.H/FCOUL.H/INTEGER.H/SIZE1.H
 *INTEGER.H/F47.H
 IF[SIZE1.H] /MUL1.I1.H:=DEFAULT.H/1600.H/INTEGER.H
 *0000.H/EMOD.H/DEFAULT.H/INTEGER.H/SIZE0.H
 *EXT0000.H/EMOD.H/INTEGER.H/DEFAULT.H/SIZE0.H
 *EXT0000.H/EMOD.H/DEFAULT.H/SIZE0.H
 *0000.H/EMOD.H/DEFAULT.H/SIZE0.H
 *INTEGER.H/1600.H
 IF[SIZE1.H] /MUL2.I1.H:=DEFAULT.H/1600.H
 *SIZE0.H/3200.H/INTEGER.H/EMOD.H/DEFAULT.H
 *SIZE0.H/0000.H/INTEGER.H/EMOD.H/DEFAULT.H
 *0000.H/EMOD.H/DEFAULT.H/SIZE0.H
 *3200.H/EMOD.H/DEFAULT.H/SIZE0.H
 *INTEGER.H/1600.H

PART NUMBER: 23-037J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAL
 LOCATION/DESCRIPTION: E61/ INPUT ENABLE PAL
 ASSIGNED PIN NUMBER:
 1= MOD1.H 8= DIV.H 15= 2007.H
 2= MOD0.H 9= F55.Y.H 16= LOAD.H
 3= SHF1.H 10= GND 17= DOUB.DIV.L
 4= SHF0.H 11= EXP0.Y.H 18= DIVF.L
 5= SIZE1.H 12= INT.DIV.H 19= NULL.H
 6= SIZE0.H 13= DISA.L 20= VCC
 7= INTEGER.H 14= 1007.H

EQUATIONS:
 IF[VCC] /NULL.H:=/MOD1.H
 *MOD0.H
 *INTEGER.H
 *DIV.H
 IF[VCC] /DIVF.L:=MOD1.H/MOD0.H/DIV.H/INTEGER.H/SIZE1.H/SIZE0.H
 IF[VCC] /DOUB.DIV.L:=MOD1.H/MOD0.H/DIV.H/INTEGER.H/SIZE1.H/SIZE0.H
 *MOD1.H/MOD0.H/DIV.H/INTEGER.H/SIZE1.H/SIZE0.H
 IF[VCC] /INT.DIV.H:=/MOD1.H
 *MOD0.H
 *INTEGER.H
 *DIV.H
 IF[MOD1.H/MOD0.H/LOAD.H/SHF1.H/SHF0.H/DISA.L] /1007.H:=/EXP0.Y.H
 IF[MOD1.H/MOD0.H/LOAD.H/SHF1.H/SHF0.H/DISA.L] /2007.H:=/F55.Y.H

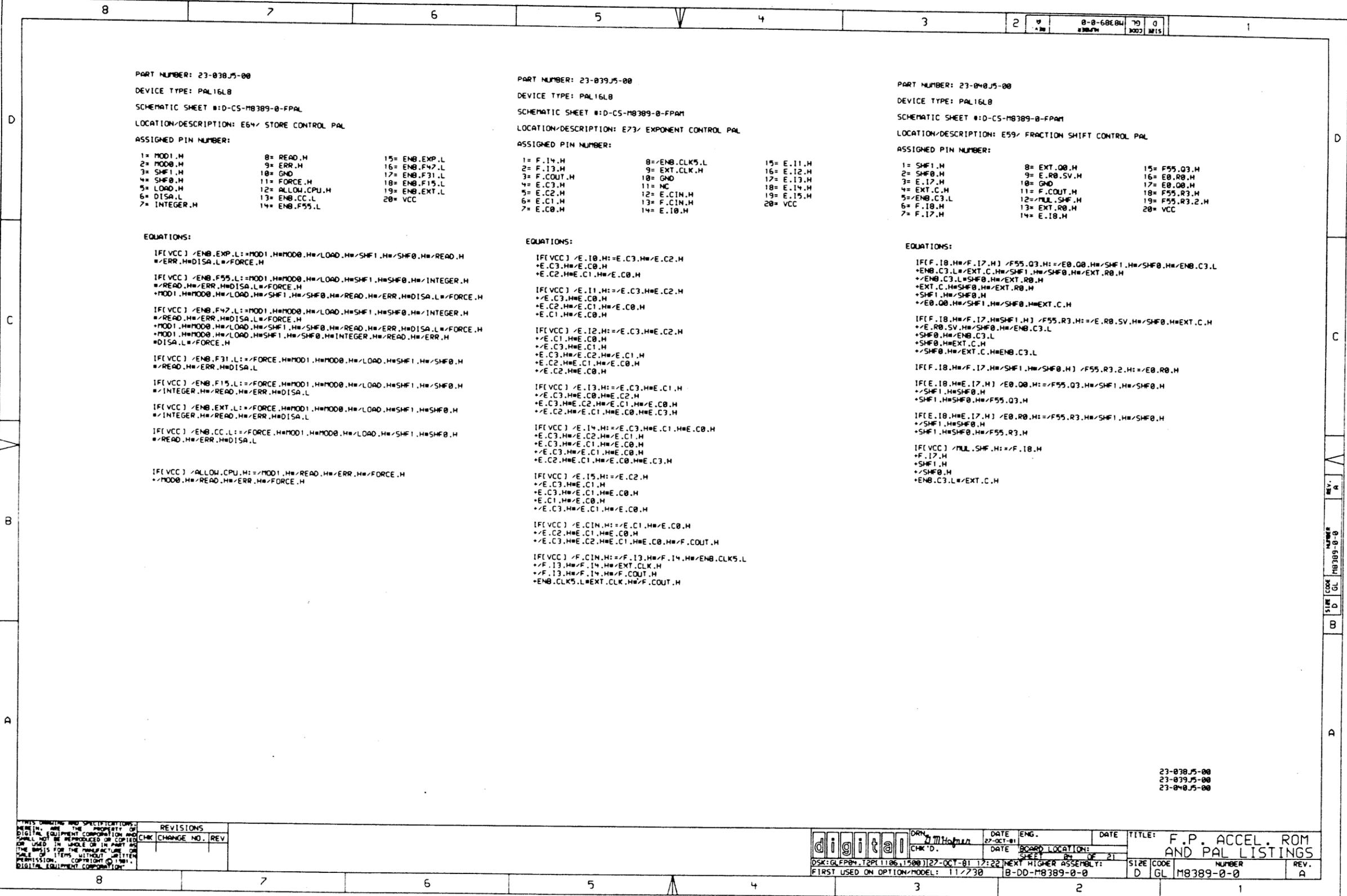
23-035J5-00
 23-036J5-00
 23-037J5-00

G.M. HARNER (1106, 1500) FPAE/F03/DPL SCALE 2 - 0 - 0 RELEASE BOX
 G.M. HARNER GLF03/PL01(106, 1500) 27-OCT-81 17:51

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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN. M. Harnier	DATE 27-OCT-81	ENG.	DATE	TITLE: F.P. ACCEL. ROM AND PAL LISTINGS
	CHK'D.	DATE	BOARD LOCATION: SHEET 03 OF 21	SIZE CODE NUMBER REV.	D GL M8389-0-0 A
DSK:GLF03.TPK(1106,1500) 27-OCT-81 17:22 NEXT HIGHER ASSEMBLY:		FIRST USED ON OPTION/MODEL: 117730		B-DD-M8389-0-0	



PART NUMBER: 23-038J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAL
 LOCATION/DESCRIPTION: E64/ STORE CONTROL PAL
 ASSIGNED PIN NUMBER:
 1= MOD1.H 8= READ.H 15= ENB.EXP.L
 2= MOD0.H 9= ERR.H 16= ENB.F47.L
 3= SHF1.H 10= GND 17= ENB.F31.L
 4= SHF0.H 11= FORCE.H 18= ENB.F15.L
 5= LOAD.H 12= ALLOW.CPU.H 19= ENB.EXT.L
 6= DISA.L 13= ENB.CC.L 20= VCC
 7= INTEGER.H 14= ENB.F55.L

EQUATIONS:
 IF[VCC] /ENB.EXP.L:=MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H*/READ.H
 /ERR.H/DISA.L*/FORCE.H
 IF[VCC] /ENB.F55.L:=MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H*/INTEGER.H
 /READ.H/ERR.H*/DISA.L*/FORCE.H
 *MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H*/READ.H*/ERR.H*/DISA.L*/FORCE.H
 IF[VCC] /ENB.F47.L:=MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H*/INTEGER.H
 /READ.H/ERR.H*/DISA.L*/FORCE.H
 *MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H*/READ.H*/ERR.H*/DISA.L*/FORCE.H
 *MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H*/INTEGER.H*/READ.H*/ERR.H
 /DISA.L/FORCE.H
 IF[VCC] /ENB.F31.L:=FORCE.H*MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H
 /READ.H/ERR.H*/DISA.L
 IF[VCC] /ENB.F15.L:=FORCE.H*MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H
 /INTEGER.H/READ.H*/ERR.H*/DISA.L
 IF[VCC] /ENB.EXT.L:=FORCE.H*MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H
 /INTEGER.H/READ.H*/ERR.H*/DISA.L
 IF[VCC] /ENB.CC.L:=FORCE.H*MOD1.H*MOD0.H*/LOAD.H*/SHF1.H*/SHF0.H
 /READ.H/ERR.H*/DISA.L
 IF[VCC] /ALLOW.CPU.H:=MOD1.H*/READ.H*/ERR.H*/FORCE.H
 /MOD0.H/READ.H*/ERR.H*/FORCE.H

PART NUMBER: 23-039J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAM
 LOCATION/DESCRIPTION: E73/ EXPONENT CONTROL PAL
 ASSIGNED PIN NUMBER:
 1= F.14.H 8= ENB.CLK5.L 15= E.11.H
 2= F.13.H 9= EXT.CLK.H 16= E.12.H
 3= F.COUT.H 10= GND 17= E.13.H
 4= E.C3.H 11= NC 18= E.14.H
 5= E.C2.H 12= E.CIN.H 19= E.15.H
 6= E.C1.H 13= F.CIN.H 20= VCC
 7= E.C0.H 14= E.10.H

EQUATIONS:
 IF[VCC] /E.10.H:=E.C3.H*/E.C2.H
 /E.C3.H/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 IF[VCC] /E.11.H:=E.C3.H*/E.C2.H
 /E.C3.H/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 /E.C1.H/E.C0.H
 IF[VCC] /E.12.H:=E.C3.H*/E.C2.H
 /E.C1.H/E.C0.H
 /E.C3.H/E.C0.H
 /E.C2.H/E.C1.H
 /E.C2.H/E.C1.H*/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 IF[VCC] /E.13.H:=E.C3.H*/E.C1.H
 /E.C3.H/E.C0.H*/E.C2.H
 /E.C3.H/E.C2.H*/E.C1.H*/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 /E.C3.H/E.C1.H*/E.C0.H
 IF[VCC] /E.14.H:=E.C3.H*/E.C1.H*/E.C0.H
 /E.C3.H/E.C2.H*/E.C1.H
 /E.C3.H/E.C1.H*/E.C0.H
 /E.C3.H/E.C1.H*/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 IF[VCC] /E.15.H:=E.C2.H
 /E.C3.H/E.C1.H
 /E.C3.H/E.C1.H*/E.C0.H
 /E.C1.H/E.C0.H
 /E.C3.H/E.C1.H*/E.C0.H
 IF[VCC] /E.CIN.H:=E.C1.H*/E.C0.H
 /E.C2.H/E.C1.H*/E.C0.H
 /E.C3.H/E.C2.H*/E.C1.H*/E.C0.H*/F.COUT.H
 IF[VCC] /F.CIN.H:=F.13.H*/F.14.H*/ENB.CLK5.L
 /F.13.H/F.14.H*/EXT.CLK.H
 /F.13.H/F.14.H*/F.COUT.H
 /ENB.CLK5.L/EXT.CLK.H*/F.COUT.H

PART NUMBER: 23-040J5-00
 DEVICE TYPE: PAL16L8
 SCHEMATIC SHEET #: D-CS-M8389-0-FPAM
 LOCATION/DESCRIPTION: E59/ FRACTION SHIFT CONTROL PAL
 ASSIGNED PIN NUMBER:
 1= SHF1.H 8= EXT.00.H 15= F55.03.H
 2= SHF0.H 9= E.R0.SV.H 16= E0.R0.H
 3= F.17.H 10= GND 17= E0.00.H
 4= EXT.C.H 11= F.COUT.H 18= F55.R3.H
 5= ENB.C3.L 12= /NUL.SHF.H 19= F55.R3.2.H
 6= F.18.H 13= EXT.R0.H 20= VCC
 7= F.17.H 14= E.18.H

EQUATIONS:
 IF[F.18.H*/F.17.H] /F55.03.H:=E0.00.H*/SHF1.H*/SHF0.H*/ENB.C3.L
 /ENB.C3.L/EXT.C.H*/SHF1.H*/SHF0.H*/EXT.R0.H
 /ENB.C3.L/SHF0.H*/EXT.R0.H
 /EXT.C.H/SHF0.H*/EXT.R0.H
 /SHF1.H/SHF0.H
 /E0.00.H/SHF1.H*/SHF0.H*/EXT.C.H
 IF[F.18.H*/F.17.H*/SHF1.H] /F55.R3.H:=E.R0.SV.H*/SHF0.H*/EXT.C.H
 /E.R0.SV.H/SHF0.H*/ENB.C3.L
 /SHF0.H/ENB.C3.L
 /SHF0.H/EXT.C.H
 /SHF0.H/EXT.C.H*/ENB.C3.L
 IF[F.18.H*/F.17.H*/SHF1.H*/SHF0.H] /F55.R3.2.H:=E0.R0.H
 /SHF1.H/SHF0.H
 /SHF1.H/SHF0.H*/F55.03.H
 IF[E.18.H*/E.17.H] /E0.00.H:=F55.03.H*/SHF1.H*/SHF0.H
 /SHF1.H/SHF0.H
 /SHF1.H/SHF0.H*/F55.03.H
 IF[E.18.H*/E.17.H] /E0.R0.H:=F55.R3.H*/SHF1.H*/SHF0.H
 /SHF1.H/SHF0.H
 /SHF1.H/SHF0.H*/F55.R3.H
 IF[VCC] /NUL.SHF.H:=F.18.H
 */F.17.H
 */SHF1.H
 */SHF0.H
 /ENB.C3.L/EXT.C.H

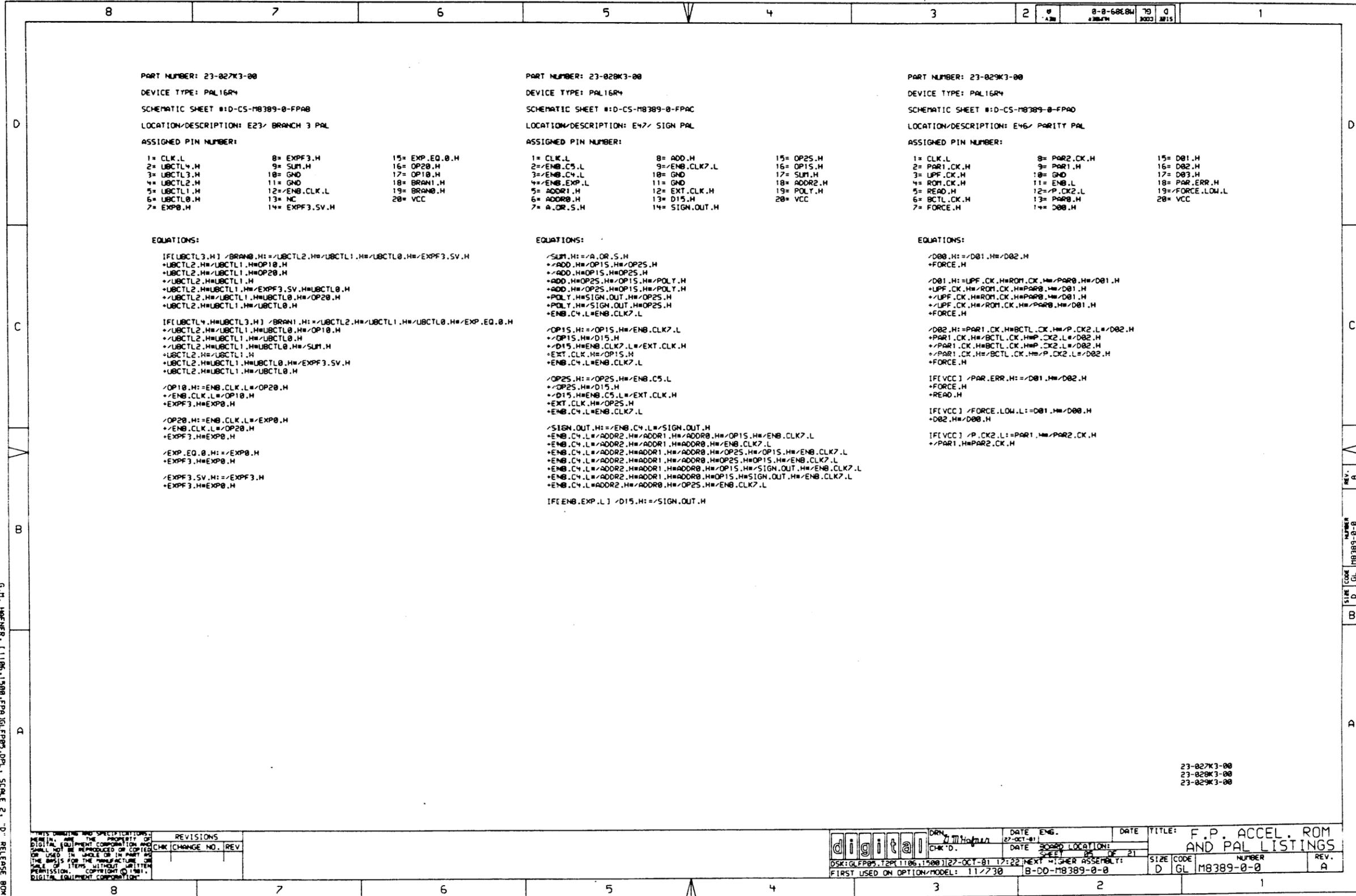
G.M. HARNER, (1106, 1980) PAL16L8 PAL16L8, SCALE 2: "0" RELEASE BOX
 G.M. HARNER (ALPBM, PLOT 1106, 1980) 27-OCT-81 17:51

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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN	DATE	ENG.	DATE	TITLE:
	CHK'D.	27-OCT-81	M.Holman		F.P. ACCEL. ROM AND PAL LISTINGS
DATE		BOARD LOCATION:		SIZE CODE NUMBER REV.	
27-OCT-81		B-DD-M8389-0-0		D GL M8389-0-0 A	
DSK:GLPBM.T2P1106.1500J27-OCT-81 17:22 NEXT HIGHER ASSEMBLY:					
FIRST USED ON OPTION/MODEL: 11/730 B-DD-M8389-0-0					

23-038J5-00
 23-039J5-00
 23-040J5-00



PART NUMBER: 23-027K3-00
 DEVICE TYPE: PAL16R4
 SCHEMATIC SHEET #1D-C5-M8389-0-FPAB
 LOCATION/DESCRIPTION: E23/ BRANCH 3 PAL
 ASSIGNED PIN NUMBER:

- 1= CLK.L
- 2= UBCTL4.H
- 3= UBCTL3.H
- 4= UBCTL2.H
- 5= UBCTL1.H
- 6= UBCTL0.H
- 7= EXP0.H
- 8= EXPF3.H
- 9= SUM.H
- 10= GND
- 11= GND
- 12= ENB.CLK.L
- 13= NC
- 14= EXPF3.SV.H
- 15= EXP.EQ.0.H
- 16= OP20.H
- 17= OP10.H
- 18= BRAN1.H
- 19= BRAN0.H
- 20= VCC

EQUATIONS:

```

IF(UBCTL3.H) /BRAN0.H:=UBCTL2.H/UBCTL1.H/UBCTL0.H/EXPF3.SV.H
+UBCTL2.H/UBCTL1.H/OP10.H
+UBCTL2.H/UBCTL1.H/OP20.H
+UBCTL2.H/UBCTL1.H
+UBCTL2.H/UBCTL1.H/EXPF3.SV.H/UBCTL0.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H/OP20.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H

IF(UBCTL4.H/UBCTL3.H) /BRAN1.H:=UBCTL2.H/UBCTL1.H/UBCTL0.H/EXP.EQ.0.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H/OP10.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H/SUM.H
+UBCTL2.H/UBCTL1.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H/EXPF3.SV.H
+UBCTL2.H/UBCTL1.H/UBCTL0.H

/OP10.H:=ENB.CLK.L/OP20.H
+ENB.CLK.L/OP10.H
+EXPF3.H/EXP0.H

/OP20.H:=ENB.CLK.L/EXP0.H
+ENB.CLK.L/OP20.H
+EXPF3.H/EXP0.H

/EXP.EQ.0.H:=EXP0.H
+EXPF3.H/EXP0.H

/EXPF3.SV.H:=EXPF3.H
+EXPF3.H/EXP0.H
  
```

PART NUMBER: 23-028K3-00
 DEVICE TYPE: PAL16R4
 SCHEMATIC SHEET #1D-C5-M8389-0-FPAC
 LOCATION/DESCRIPTION: E47/ SIGN PAL
 ASSIGNED PIN NUMBER:

- 1= CLK.L
- 2= ENB.C5.L
- 3= ENB.C4.L
- 4= ENB.EXP.L
- 5= ADDR1.H
- 6= ADDR0.H
- 7= A.OR.S.H
- 8= ADD.H
- 9= ENB.CLK7.L
- 10= GND
- 11= GND
- 12= EXT.CLK.H
- 13= D15.H
- 14= SIGN.OUT.H
- 15= OP25.H
- 16= OP15.H
- 17= SUM.H
- 18= ADDR2.H
- 19= POLY.H
- 20= VCC

EQUATIONS:

```

/SUM.H:=A.OR.S.H
+ADD.H/OP15.H/OP25.H
+ADD.H/OP15.H/OP25.H
+ADD.H/OP25.H/OP15.H/POLY.H
+ADD.H/OP25.H/OP15.H/POLY.H
+POLY.H/SIGN.OUT.H/OP25.H
+POLY.H/SIGN.OUT.H/OP25.H
+ENB.C4.L/ENB.CLK7.L

/OP15.H:=OP15.H/ENB.CLK7.L
+OP15.H/D15.H
+D15.H/ENB.CLK7.L/EXT.CLK.H
+EXT.CLK.H/OP15.H
+ENB.C4.L/ENB.CLK7.L

/OP25.H:=OP25.H/ENB.C5.L
+OP25.H/D15.H
+D15.H/ENB.C5.L/EXT.CLK.H
+EXT.CLK.H/OP25.H
+ENB.C4.L/ENB.CLK7.L

/SIGN.OUT.H:=ENB.C4.L/SIGN.OUT.H
+ENB.C4.L/ADDR2.H/ADDR1.H/ADDR0.H/OP15.H/ENB.CLK7.L
+ENB.C4.L/ADDR2.H/ADDR1.H/ADDR0.H/ENB.CLK7.L
+ENB.C4.L/ADDR2.H/ADDR1.H/ADDR0.H/OP25.H/OP15.H/ENB.CLK7.L
+ENB.C4.L/ADDR2.H/ADDR1.H/ADDR0.H/OP15.H/SIGN.OUT.H/ENB.CLK7.L
+ENB.C4.L/ADDR2.H/ADDR1.H/ADDR0.H/OP25.H/ENB.CLK7.L

IF(ENB.EXP.L) /D15.H:=SIGN.OUT.H
  
```

PART NUMBER: 23-029K3-00
 DEVICE TYPE: PAL16R4
 SCHEMATIC SHEET #1D-C5-M8389-0-FPAD
 LOCATION/DESCRIPTION: E46/ PARITY PAL
 ASSIGNED PIN NUMBER:

- 1= CLK.L
- 2= PAR1.CK.H
- 3= LPF.CK.H
- 4= ROM.CK.H
- 5= READ.H
- 6= BCTL.CK.H
- 7= FORCE.H
- 8= PAR2.CK.H
- 9= PAR1.H
- 10= GND
- 11= ENB.L
- 12= P.CK2.L
- 13= PAR0.H
- 14= D00.H
- 15= D01.H
- 16= D02.H
- 17= D03.H
- 18= PAR.ERR.H
- 19= FORCE.LOW.L
- 20= VCC

EQUATIONS:

```

/D00.H:=D01.H/D02.H
+FORCE.H

/D01.H:=LPF.CK.H/ROM.CK.H/PAR0.H/D01.H
+LPF.CK.H/ROM.CK.H/PAR0.H/D01.H
+LPF.CK.H/ROM.CK.H/PAR0.H/D01.H
+LPF.CK.H/ROM.CK.H/PAR0.H/D01.H
+FORCE.H

/D02.H:=PAR1.CK.H/BCTL.CK.H/P.CK2.L/D02.H
+PAR1.CK.H/BCTL.CK.H/P.CK2.L/D02.H
+PAR1.CK.H/BCTL.CK.H/P.CK2.L/D02.H
+PAR1.CK.H/BCTL.CK.H/P.CK2.L/D02.H
+FORCE.H

IF(VCC) /PAR.ERR.H:=D01.H/D02.H
+FORCE.H
+READ.H

IF(VCC) /FORCE.LOW.L:=D01.H/D00.H
+D02.H/D00.H

IF(VCC) /P.CK2.L:=PAR1.H/PAR2.CK.H
+PAR1.H/PAR2.CK.H
  
```

23-027K3-00
 23-028K3-00
 23-029K3-00

G.H. HARTNER, 11106, 1500, FPA, GLEPP9, DPL, SCALE 2, "D" RELEASE BOX
 G.H. HARTNER, GLEPP9, PLOT 1106, 1500, 27-OCT-81 17:51

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REV.	DATE	DESCRIPTION

REV.	DATE	DESCRIPTION

	DSK: GLEPP9, 12P1106, 1500, 127-OCT-81 17:22, NEXT HIGH ASSEMBLY: B-DO-M8389-0-0	DATE: 27-OCT-81	DATE:	TITLE: F.P. ACCEL. ROM AND PAL LISTINGS
	FIRST USED ON OPTION/MODEL: 117730	BOARD LOCATION:	SHEET:	SIZE: D
NUMBER: M8389-0-0	NUMBER:	NUMBER:	NUMBER:	NUMBER:
REV.: A	REV.:	REV.:	REV.:	REV.:

PART NUMBER: 23-030K3-00
 DEVICE TYPE: PAL16R4
 SCHEMATIC SHEET #1: D-CS-M8389-0-FPAH
 LOCATION/DESCRIPTION: E44/ CONDITION CODE PAL
 ASSIGNED PIN NUMBER:

- 1= CLK.L
- 2= INTEGER.H
- 3= F47.B.H
- 4= F31.B.H
- 5= EXP.B.H
- 6= F47.F3.H
- 7= SIGN.OUT.H
- 8= ENB.CLK6.L
- 9= EXT.CLK.H
- 10= GND
- 11= ENB.CC.L
- 12= CLK2.L
- 13= SHF1.H
- 14= D00.H
- 15= D01.H
- 16= D02.H
- 17= D03.H
- 18= SHF0.H
- 19= ENB.LIT.L
- 20= VCC

EQUATIONS:

```

/D03.H:=ENB.CLK6.L/D03.H
*EXT.CLK.H:=D03.H
*INTEGER.H:=F47.B.H#ENB.CLK6.L#EXT.CLK.H
*/INTEGER.H:=SIGN.OUT.H#ENB.CLK6.L#EXT.CLK.H
*ENB.CLK6.L=CLK2.L

/D02.H:=ENB.CLK6.L/D02.H
*EXT.CLK.H:=D02.H
*INTEGER.H:=F47.B.H#ENB.CLK6.L#EXT.CLK.H
*/INTEGER.H:=EXP.B.H#ENB.CLK6.L#EXT.CLK.H
*ENB.CLK6.L=CLK2.L

/D01.H:=ENB.CLK6.L/D01.H
*EXT.CLK.H:=D01.H
*ENB.CLK6.L#EXT.CLK.H:=SHF1.H
*ENB.CLK6.L=CLK2.L

/D00.H:=ENB.CLK6.L/D00.H
*EXT.CLK.H:=D00.H
*ENB.CLK6.L#EXT.CLK.H:=SHF0.H
*ENB.CLK6.L=CLK2.L

IF[VCC] /ENB.LIT.L:=CLK2.L#EXT.CLK.H
    
```

PART NUMBER: 23-031K3-00
 DEVICE TYPE: PAL16R4
 SCHEMATIC SHEET #1: D-CS-M8389-0-FPAE
 LOCATION/DESCRIPTION: E43/ EXTENDED FUNCTION PAL
 ASSIGNED PIN NUMBER:

- 1= REG.CLK.L
- 2= CLK2.H
- 3= CLK1.H
- 4= CLK0.H
- 5= EXT.CLK.H
- 6= S5.R3.H
- 7= SIZE1.H
- 8= SIZE0.H
- 9= SHF1.H
- 10= GND
- 11= GND
- 12= LD.SEL0.H
- 13= DATA.AV.L
- 14= Q16.DEF.H
- 15= LOAD.H
- 16= HUGER3.SV.H
- 17= ALTER.ST.H
- 18= CLR.ST.L
- 19= ENB.OP.0.CLK.L
- 20= VCC

EQUATIONS:

```

/HUGER3.SV.H:=CLK0.H#HUGER3.SV.H
*CLK1.H#HUGER3.SV.H
*CLK2.H#HUGER3.SV.H
*EXT.CLK.H#HUGER3.SV.H
*/S5.R3.H#CLK0.H#CLK1.H#CLK2.H#EXT.CLK.H
*CLR.ST.L

/LOAD.H:=CLK0.H#LOAD.H
*/CLK1.H#LOAD.H
*CLK2.H#LOAD.H
*/EXT.CLK.H#LOAD.H
*LOAD.H#CLK0.H#CLK1.H#CLK2.H#EXT.CLK.H
*CLR.ST.L

/Q16.DEF.H:=CLK0.H#Q16.DEF.H
*/CLK1.H#Q16.DEF.H
*CLK2.H#Q16.DEF.H
*/EXT.CLK.H#Q16.DEF.H
*Q16.DEF.H#CLK0.H#CLK2.H#CLK1.H#EXT.CLK.H
*CLR.ST.L

/ALTER.ST.H:=CLK0.H#ALTER.ST.H
*CLK1.H#ALTER.ST.H
*CLK2.H#ALTER.ST.H
*/EXT.CLK.H#ALTER.ST.H
*ALTER.ST.H#CLK0.H#CLK1.H#CLK2.H#EXT.CLK.H
*CLR.ST.L

IF[VCC] /ENB.OP.0.CLK.L:=CLK0.H#CLK1.H#CLK2.H#EXT.CLK.H
*CLK0.H#CLK1.H#CLK2.H#EXT.CLK.H#DATA.AV.L
*CLK0.H#CLK1.H#CLK2.H#EXT.CLK.H#DATA.AV.L

IF[VCC] /LD.SEL0.H:=SIZE1.H
*/SHF1.H#SIZE0.H
    
```

PART NUMBER: 23-009K4-00
 DEVICE TYPE: PAL16R6
 SCHEMATIC SHEET #1: D-CS-M8389-0-FPAC
 LOCATION/DESCRIPTION: E35/ CLOCK CONTROL PAL
 ASSIGNED PIN NUMBER:

- 1= B.CLK.H
- 2= PAR.ERR.H
- 3= EXT.C.H
- 4= ENB.C1.L
- 5= TRAP.L
- 6= READ.L
- 7= CP.PH2.H
- 8= CPU.RCV.L
- 9= FAST.DISAL
- 10= GND
- 11= GND
- 12= FAST.ENB.H
- 13= CLR.L
- 14= CP.PH0.H
- 15= FP.PH1.H
- 16= CLK.OFF.L
- 17= FP.PH0.L
- 18= FAST.L
- 19= SLOW.ENB.H
- 20= VCC

EQUATIONS:

```

/FAST.L:=FAST.L#ENB.C1.L#EXT.C.H#READ.L#TRAP.L#CP.PH2.H
*/PAR.ERR.H#FAST.DISAL
*FAST.L#ENB.C1.L#READ.L#TRAP.L#PAR.ERR.H#FAST.DISAL
*FAST.L#EXT.C.H#READ.L#TRAP.L#PAR.ERR.H#FAST.DISAL
*FAST.L#ENB.C1.L#EXT.C.H#FP.PH0.L#CP.PH2.H#PAR.ERR.H#FAST.DISAL
*FAST.L#CP.PH2.H
*READ.L#TRAP.L

/CP.PH0.H:=CP.PH2.H
*CLK.OFF.L#CPU.RCV.L
*READ.L#CPU.RCV.L
*/CLK.OFF.L#READ.L
*READ.L#TRAP.L

/FP.PH0.L:=FAST.L#TRAP.L#CP.PH2.H#FP.PH0.L#CLK.OFF.L
*/FP.PH0.L#FAST.L#FP.PH1.H#READ.L#TRAP.L#ENB.C1.L#CLK.OFF.L
*/FP.PH0.L#FAST.L#ENB.C1.L#EXT.C.H#READ.L#TRAP.L#CP.PH2.H#CLK.OFF.L
*/FP.PH0.L#FAST.L#CLK.OFF.L#CPU.RCV.L#CP.PH2.H
*/FP.PH0.L#FAST.L#CLK.OFF.L#TRAP.L#CP.PH2.H
*/FP.PH0.L#FAST.L#CLK.OFF.L#CP.PH2.H
*READ.L#TRAP.L

/CLK.OFF.L:=READ.L#CP.PH2.H
*CLK.OFF.L#CPU.RCV.L#TRAP.L
*CLK.OFF.L#TRAP.L#CP.PH2.H
*CLK.OFF.L#CPU.RCV.L#CP.PH2.H
*READ.L#TRAP.L

/FP.PH1.H:=FP.PH0.L
*READ.L#TRAP.L

/CLR.L:=TRAP.L#CP.PH0.H#CP.PH2.H
*READ.L#TRAP.L

IF[VCC] /FAST.ENB.H:=FAST.L
*CLK.OFF.L
*TRAP.L#CP.PH0.H
*READ.L#CP.PH0.H
*EXT.C.H#ENB.C1.L

IF[VCC] /SLOW.ENB.H:=FAST.L#TRAP.L#READ.L#EXT.C.H
*CLK.OFF.L
*FAST.L#TRAP.L#READ.L#ENB.C1.L
*FAST.ENB.H
*FP.PH0.L#CP.PH2.H
    
```

G.M. HOFFER, (1106,1500) FPAH, GLFP06, 906, SCALE 2, D, RELEASE BOX
 G.M. HOFFER, GLFP06, PLOT 1106, 1500, 27-OCT-81 17:51

23-030K3-00
 23-031K3-00
 23-009K4-00

REVISIONS

CHK	CHANGE NO.	REV

digit@l	DRN	DATE	ENG.	DATE	TITLE
	CHK'D	27-OCT-81	M.Hoffner		F.P. ACCEL. ROM AND PAL LISTINGS
DSK:GLFP06, I2PT1106, 1500, 17:22		NEXT HIGHER ASSEMBLY:		SIZE	CODE
FIRST USED ON OPTION MODEL: 11/730		9-DD-M8389-0-0		D	GL
				NUMBER	REV.
				M8389-0-0	A

8			7			6			5			4			3			2			1		
HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
000	1C	00011100	040	00	00000000	080	1C	00011100	0C0	1C	00011100	100	1C	00011100	140	40	01000000	180	1C	00011100	1C0	1C	00011100
001	1C	00011100	041	00	00000000	081	1C	00011100	0C1	1C	00011100	101	1C	00011100	141	40	01000000	181	1C	00011100	1C1	1C	00011100
002	1C	00011100	042	03	00000011	082	1C	00011100	0C2	1C	00011100	102	1C	00011100	142	43	01000011	182	1C	00011100	1C2	1C	00011100
003	1C	00011100	043	03	00000011	083	1C	00011100	0C3	1C	00011100	103	1C	00011100	143	43	01000011	183	1C	00011100	1C3	1C	00011100
004	1C	00011100	044	06	00000110	084	1C	00011100	0C4	18	00010000	104	1C	00011100	144	46	01000110	184	1C	00011100	1C4	1C	00011100
005	1C	00011100	045	06	00000110	085	1C	00011100	0C5	18	00010000	105	1C	00011100	145	46	01000110	185	1C	00011100	1C5	1C	00011100
006	1C	00011100	046	05	00000101	086	1C	00011100	0C6	1A	00010101	106	1C	00011100	146	45	01000101	186	1C	00011100	1C6	1C	00011100
007	1C	00011100	047	05	00000101	087	1C	00011100	0C7	1A	00010101	107	1C	00011100	147	45	01000101	187	1C	00011100	1C7	1C	00011100
008	1C	00011100	048	08	00001000	088	1C	00011100	0C8	1C	00011100	108	1C	00011100	148	48	01001000	188	1C	00011100	1C8	1C	00011100
009	1C	00011100	049	09	00001001	089	1C	00011100	0C9	1C	00011100	109	1C	00011100	149	49	01001001	189	1C	00011100	1C9	1C	00011100
00A	1C	00011100	04A	0A	00001010	08A	1C	00011100	0CA	1C	00011100	10A	1C	00011100	14A	4A	01001010	18A	1C	00011100	1CA	1C	00011100
00B	1C	00011100	04B	08	00001011	08B	1C	00011100	0CB	1C	00011100	10B	1C	00011100	14B	48	01001011	18B	1C	00011100	1CB	1C	00011100
00C	1C	00011100	04C	10	00010000	08C	1C	00011100	0CC	1C	00011100	10C	1C	00011100	14C	50	01010000	18C	1C	00011100	1CC	1C	00011100
00D	1C	00011100	04D	11	00010001	08D	1C	00011100	0CD	1C	00011100	10D	1C	00011100	14D	51	01010001	18D	1C	00011100	1CD	1C	00011100
00E	1C	00011100	04E	12	00010010	08E	1C	00011100	0CE	1C	00011100	10E	1C	00011100	14E	52	01010010	18E	1C	00011100	1CE	1C	00011100
00F	1C	00011100	04F	00	00000000	08F	1C	00011100	0CF	1C	00011100	10F	1C	00011100	14F	40	01000000	18F	1C	00011100	1CF	1C	00011100
010	1C	00011100	050	1C	00011100	090	1C	00011100	0D0	1C	00011100	110	1C	00011100	150	1C	00011100	190	1C	00011100	1D0	1C	00011100
011	1C	00011100	051	02	00000110	091	1C	00011100	0D1	1C	00011100	111	1C	00011100	151	42	01000110	191	1C	00011100	1D1	1C	00011100
012	1C	00011100	052	1C	00011100	092	1C	00011100	0D2	1C	00011100	112	1C	00011100	152	1C	00011100	192	1C	00011100	1D2	1C	00011100
013	1C	00011100	053	1C	00011100	093	1C	00011100	0D3	1C	00011100	113	1C	00011100	153	1C	00011100	193	1C	00011100	1D3	1C	00011100
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01A	1C	00011100	05A	1C	00011100	09A	1C	00011100	0DA	1C	00011100	11A	1C	00011100	15A	1C	00011100	19A	1C	00011100	1DA	1C	00011100
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01D	1C	00011100	05D	1C	00011100	09D	1C	00011100	0DD	1C	00011100	11D	1C	00011100	15D	1C	00011100	19D	1C	00011100	1DD	1C	00011100
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02A	1C	00011100	06A	2A	00101010	0AA	1C	00011100	0EA	1C	00011100	12A	1C	00011100	16A	6A	01101010	1AA	1C	00011100	1EA	1C	00011100
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02C	1C	00011100	06C	30	00110000	0AC	1C	00011100	0EC	1C	00011100	12C	1C	00011100	16C	70	01110000	1AC	1C	00011100	1EC	1C	00011100
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02F	1C	00011100	06F	20	00100000	0AF	1C	00011100	0EF	1C	00011100	12F	1C	00011100	16F	60	01100000	1AF	1C	00011100	1EF	1C	00011100
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031	1C	00011100	071	22	00100010	0B1	1C	00011100	0F1	1C	00011100	131	1C	00011100	171	62	01100010	1B1	1C	00011100	1F1	1C	00011100
032	1C	00011100	072	1C	00011100	0B2	1C	00011100	0F2	1C	00011100	132	2F	00010111	172	1C	00011100	1B2	1C	00011100	1F2	1C	00011100
033	1C	00011100	073	1C	00011100	0B3	1C	00011100	0F3	1C	00011100	133	4C	01001100	173	1C	00011100	1B3	1C	00011100	1F3	1C	00011100
034	1C	00011100	074	27	00100111	0B4	1C	00011100	0F4	1C	00011100	134	1C	00011100	174	67	01100111	1B4</					

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HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
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001	01	00000001	041	46	01000110	081	02	10000010	0C1	80	10000000	101	01	00000001	141	48	01001000	181	08	10101000	1C1	C6	11000110
002	09	00001001	042	43	01000011	082	58	01011011	0C2	E1	11100001	102	25	00100101	142	65	01100101	182	A3	10000011	1C2	71	01110001
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005	05	00000101	045	E3	11100011	085	4C	01001100	0C5	C5	11000101	105	20	00101101	145	44	01000100	185	AC	10101100	1C5	C5	11000101
006	28	00101000	046	00	00000000	086	08	11011000	0C6	AC	10101100	106	7E	01111110	146	4E	01000100	186	80	10110000	1C6	2C	00101100
007	E3	11100011	047	00	00000000	087	8D	10001101	0C7	0A	00001010	107	28	00101000	147	56	01010110	187	AC	10101100	1C7	8C	10001100
008	22	00100010	048	09	00001001	088	6A	01101010	0C8	FF	11111111	108	0A	00001010	148	16	00010110	188	F2	11110010	1C8	F0	11110000
009	0E	00001110	049	49	01001001	089	00	00000000	0C9	EB	11101011	109	09	00001001	149	88	10111011	189	69	01101001	1C9	A6	10100110
00A	EC	11101100	04A	3C	00111100	08A	6E	01101110	0CA	49	01001001	10A	8D	10111101	14A	0E	00001110	18A	DC	11011100	1CA	04	00000100
00B	19	00011001	04B	06	00000110	08B	F4	11110100	0CB	50	01010000	10B	F1	11110001	14B	E5	11100101	18B	89	10111001	1CB	CC	11001100
00C	00	00000000	04C	4C	01001100	08C	9C	10011100	0CC	59	01011001	10C	38	00111000	14C	ED	11101101	18C	93	10010011	1CC	D0	10100000
00D	D4	11010100	04D	46	01000110	08D	98	10011011	0CD	38	00111000	10D	C2	11000010	14D	A5	10101010	18D	98	10011000	1CD	A0	10100000
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00F	C5	11000101	04F	62	01100010	08F	F4	11110100	0CF	C0	11000000	10F	2A	00100000	14F	76	01101110	18F	C5	11000101	1CF	A1	10100001
010	30	00110000	050	50	01010000	090	0F	00001111	0D0	00	00000000	110	10	00010000	150	20	00101011	190	AC	10101100	1D0	D1	10100001
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018	18	00011000	058	58	01011000	098	8D	10111101	0D8	89	10001001	118	83	10000011	158	2E	00010110	198	07	00000111	1D8	26	00100110
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01D	1D	00011101	05D	5F	01011111	09D	00	00000000	0DD	71	01110001	11D	67	01100111	15D	8F	10001111	19D	31	00110001	1DD	CE	11001110
01E	55	01010101	05E	00	00000000	09E	D7	11010111	0DE	CE	11001110	11E	42	01000010	15E	88	10001000	19E	05	00000101	1DE	58	01011000
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020	24	00100100	060	02	00000010	0A0	A0	10100000	0E0	83	10000011	120	A6	10100110	160	64	01100100	1A0	CD	11001101	1E0	0F	00001111
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022	40	01000000	062	67	01100111	0A2	A2	10100010	0E2	6E	01101110	122	87	10000111	162	68	01101011	1A2	E0	11100000	1E2	98	10011000
023	12	00010010	063	02	00000010	0A3	E1	11100001	0E3	80	10000000	123	83	10000011	163	88	10001000	1A3	04	00000100	1E3	86	10000110
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025	25	00100101	065	8A	10001010	0A5	00	00000000	0E5	EE	11110110	125	25	00100101	165	1E	00011110	1A5	0C	00001100	1E5	96	10010110
026	00	00000000	066	48	01001000	0A6	25	00100101	0E6	00	00000000	126	A6	10100110	166	6F	01101111	1A6	0A	00001010	1E6	8E	10001110
027	78	01111000	067	00	00000000	0A7	00	00000000	0E7	00	00000000	127	31	00110001	167	52	01100101	1A7	81	10110001	1E7	A8	11101000
028	00	00001000	068	92	10010010	0A8	88	10111000	0E8	89	10001001	128	7E	01111001	168	8D	10001101	1A8	7C	01111100	1E8	A5	10100101
029	29	00101001	069	6A	01101010	0A9	B1	10110001	0E9	D9	11011001	129	3C	00111100	169	F2	11110010	1A9	54	01010100	1E9	6D	01101101
02A	42	01000010	06A	58	01011000	0AA	7E	01111101	0EA	79	01111001	12A	00	00000000	16A	04	00000100	1AA	30	00110000	1EA	9A	10011010
02B	04	00000100	06B	22	00100010	0AB	AC	10101100	0EB	8A	10110101	12B	38	00111011	16B	80	10000000	1AB	54	01010100	1EB	D9	11011001
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02D	2D	00101101	06D	84	10110100	0AD	AD	10101101	0ED	52	01010010	12D	51	01010001	16D	6D	01101101	1AD	54	01010100	1ED	ED	11101101
02E	38	00111000	06E	E3	11100011	0AE	25	00100101	0EE	AD	10101101	12E	00	00000000	16E	86	10000110	1AE	A9	10101001	1EE	4D	01001101
02F	D3	11010011	06F	75	01110101	0AF	98	00001000	0EF	F5	11110101	12F	00	00000000	16F	F2	11110010	1AF	54	01010100	1EF	6D	01101101
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034	02	00000010	074	41	01000001	0B4	F4	11110100	0F4	89	10001001	134	DC	11011100	174	9A	10011010	1BF	38	00111000	1FF	8C	10001100
035	39	00111001	075	65	01100101	0B5	BA																

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HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
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201	0F	00001111	241	0F	00001111	281	2D	00101101	2C1	2D	00101101	301	01	00000001	341	00	00000000	381	01	10000001	3C1	00	00000000
202	80	10100000	242	08	00001000	282	08	00001000	2C2	1E	00011110	302	02	00000010	342	00	00000000	382	00	00000000	3C2	00	00000000
203	8A	10001010	243	53	01010011	283	0F	00001111	2C3	81	10000001	303	03	00000011	343	7E	01111110	383	73	01110011	3C3	00	00000000
204	69	01101001	244	F0	11110000	284	94	10010100	2C4	00	00000000	304	04	00000100	344	0C	00001100	384	00	00000000	3C4	00	00000000
205	06	00000110	245	EE	11101110	285	A1	10100001	2C5	00	00000000	305	05	00000101	345	00	00000000	385	00	00000000	3C5	00	00000000
206	15	00010101	246	EC	11101100	286	9D	10011101	2C6	E1	11100001	306	06	00000110	346	00	00000000	386	69	01101001	3C6	00	00000000
207	89	10111001	247	C3	11000011	287	76	01110110	2C7	CA	11001010	307	07	00000111	347	00	00000000	387	70	01110000	3C7	CB	11001011
208	0A	11011010	248	35	00110101	288	C3	11000011	2C8	00	00000000	308	08	00001000	348	00	00000000	388	00	00000000	3C8	00	00000000
209	6C	01101100	249	0F	00001111	289	2D	00101101	2C9	00	00000000	309	09	00001001	349	4E	01001110	389	C3	11000011	3C9	00	00000000
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20B	00	00000000	24B	53	01010011	28B	08	00001011	2CB	DE	11011110	30B	0B	00001011	34B	4C	01001100	38B	44	01000100	3CB	00	00000000
20C	D5	11010101	24C	5D	01011101	28C	94	10010100	2CC	20	00100000	30C	0C	00001100	34C	4D	01001101	38C	00	00000000	3CC	00	00000000
20D	14	00010100	24D	6D	01101101	28D	A5	10100101	2CD	DC	11011100	30D	0D	00001101	34D	84	10110100	38D	C3	11000011	3CD	00	00000000
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20F	F1	11110001	24F	00	00000000	28F	9A	10010101	2CF	00	00000000	30F	0F	00001111	34F	3D	00111101	38F	44	01000100	3CF	00	00000000
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212	AC	10101100	252	20	00100000	292	20	00100000	2D2	91	10010001	312	12	00010010	352	83	10110011	392	00	00000000	3D2	00	00000000
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214	29	00101001	254	E0	11100000	294	94	10010100	2D4	AE	10101110	314	14	00010100	354	00	00000000	394	20	00000000	3D4	00	00000000
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217	CB	11001011	257	00	00000000	297	CB	11001011	2D7	00	00000000	317	17	00010111	357	69	01101001	397	95	10010101	3D7	F0	11110000
218	1C	00011100	258	5C	01011100	298	00	00000000	2D8	F2	11110010	318	18	00011000	358	00	00000000	398	00	00000000	3D8	00	00000000
219	0F	00001111	259	0F	00001111	299	99	10011001	2D9	9A	10011010	319	19	00011001	359	00	00000000	399	85	10000101	3D9	00	00000000
21A	80	10100000	25A	20	00100000	29A	95	10010101	2DA	0A	00010101	31A	1A	00010101	35A	86	10110110	39A	00	00000000	3DA	BE	10111110
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21C	1D	00011101	25C	52	01010010	29C	A0	10100000	2DC	AC	10101100	31C	1C	00011100	35C	00	00000000	39C	00	00000000	3DC	0A	00001010
21D	68	01101000	25D	79	01111001	29D	0F	00001111	2DD	00	00000000	31D	1D	00011101	35D	C3	11000011	39D	7F	01111111	3DD	E5	11100101
21E	F2	11110010	25E	64	01100100	29E	8E	10001110	2DE	0D	00001101	31E	1E	00011110	35E	00	00000000	39E	00	00000000	3DE	00	00000000
21F	F2	11110010	25F	A2	10100010	29F	F8	11111000	2DF	E1	11100001	31F	1F	00011111	35F	50	01010000	39F	7F	01111111	3DF	88	10001000
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224	31	00110001	264	07	00000111	2A4	6E	01101110	2E4	00	00000000	324	00	00000000	364	00	00000000	3A4	00	00000000	3E4	00	00000000
225	54	01010100	265	B1	10110001	2A5	DD	11011101	2E5	00	00000000	325	00	00000000	365	C3	11000011	3A5	A9	10101001	3E5	C3	11000011
226	86	10000110	266	5C	01101100	2A6	F8	11111000	2E6	E6	11100110	326	2D	00101101	366	00	00000000	3A6	A6	10101110	3E6	00	00000000
227	D6	11010110	267	6F	01101111	2A7	A8	10101000	2E7	EA	11101010	327	2C	00101100	367	44	01000100	3A7	90	10010000	3E7	C3	11000011
228	F2	11110010	268	60	01100000	2A8	A8	10101000	2E8	00	00000000	328	00	00000000	368	00	00000000	3A8	00	00000000	3E8	00	00000000
229	0F	00001111	269	0F	00001111	2A9	FD	11111101	2E9	00	00000000	329	68	01101000	369	56	01010110	3A9	AD	10101101	3E9	00	00000000
22A	79	01111001	26A	B5	10110101	2AA	00	00000000	2EA	EA	11101010	32A	0A	00000000	36A	00	00000000	3AA	00	00000000	3EA	00	00000000
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22C	26	00100110	26C	02	00000010	2AC	00	00000000	2EC	00	00000000	32C	00	00000000	36C	00	00000000	3AC	00	00000000	3EC	00	00000000
22D	24	00100100	26D	08	00001000	2AD	10	00010000	2ED	00	00000000	32D	00	00000000	36D	00	00000000	3AD	AD	10101101	3ED	00	00000000
22E	44	01000100	26E	FC	11111100	2AE	E9	11101001	2EE	BD	10111101	32E	34	00110100	36E	A3	10100011	3AE	00	00000000	3EE	00	00000000
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235	69	01101001	275																				

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000	58	01011000	040	54	01010100	080	54	01010100	0C0	58	01011000	100	54	01010100	140	68	01101000	180	05	11010101	1C0	21	00100001
001	58	01011000	041	1C	00011100	081	54	01010100	0C1	54	01010100	101	61	01100001	141	56	01011110	181	38	00111000	1C1	55	01010101
002	54	01010100	042	57	01010111	082	54	01010100	0C2	56	01010110	102	05	11010101	142	61	01100001	182	55	01010101	1C2	55	01010101
003	54	01010100	043	54	01010100	083	54	01010100	0C3	04	11010100	103	78	01111000	143	61	01100001	183	55	01010101	1C3	54	01010100
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005	60	01100000	045	54	01010100	085	13	00010011	0C5	88	10001000	105	05	11010101	145	55	01010101	185	55	01010101	1C5	61	01100001
006	54	01010100	046	70	01110000	086	60	01100000	0C6	55	01010101	106	55	01010101	146	81	10000001	186	55	01010101	1C6	ED	11101101
007	54	01010100	047	70	01110000	087	68	01101000	0C7	14	00010100	107	56	01010110	147	41	01000001	187	55	01010101	1C7	55	01010101
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00A	04	11010100	04A	54	01010100	08A	54	01010100	0CA	05	00000101	10A	04	11010100	14A	06	00000110	18A	61	01100001	1CA	06	11010110
00B	54	01010100	04B	54	01010100	08B	04	11010100	0CB	04	11010100	10B	04	00000100	14B	68	01101000	18B	54	01010100	1CB	55	01010101
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00E	55	01010101	04E	57	01010111	08E	60	01100000	0CE	54	01010100	10E	55	01010101	14E	55	01010101	18E	E1	11100001	1CE	55	01010101
00F	A8	10101000	04F	54	01010100	08F	EB	11101011	0CF	04	11010100	10F	56	01010110	14F	55	01010101	18F	55	01010101	1CF	55	01010101
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021	88	10001000	061	60	01100000	0A1	54	01010100	0E1	06	11010110	121	04	11010100	161	55	01010101	1A1	05	11010101	1E1	69	01101001
022	54	01010100	062	54	01010100	0A2	58	01011000	0E2	04	00000100	122	54	01010100	162	56	01010110	1A2	05	11010101	1E2	69	01101001
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026	78	01111000	066	54	01010100	0A6	05	11010101	0E6	78	01111000	126	A8	10101000	166	56	01010110	1A6	54	01010100	1E6	05	00000101
027	54	01010100	067	78	01111000	0A7	78	01111000	0E7	78	01111000	127	91	10010001	167	55	01010101	1A7	EA	11101010	1E7	05	11010101
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02A	14	00010100	06A	58	01011000	0AA	55	01010101	0EA	90	10010000	12A	78	01111000	16A	39	00111001	1AA	50	01011011	1EA	12	00010010
02B	54	01010100	06B	81	10000001	0AB	04	11010100	0EB	21	00100001	12B	55	01010101	16B	55	01010101	1AB	54	01010100	1EB	56	01010110
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02F	54	01010100	06F	54	01010100	0AF	55	01010101	0EF	54	01010100	12F	78	01111000	16F	04	11010100	1AF	54	01010100	1EF	ED	11101101
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031	54	01010100	071	55	01010101	0B1	F8	11111000	0F1	78	01111000	131	19	00010001	171	55	01010101	1B1	55	01010101	1F1	61	01100001
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HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
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201	E8	11101000	241	E8	11101000	281	E8	11101000	2C1	E8	11101000	301	57	01010111	341	00	00000000	381	63	01100011	3C1	48	01001011
202	65	01100101	242	54	01010100	282	54	01010100	2C2	54	01010100	302	57	01010111	342	57	01010111	382	57	01010111	3C2	4F	01001111
203	E9	11101001	243	56	01010110	283	54	01010100	2C3	07	11010111	303	57	01010111	343	E8	11101000	383	56	01010110	3C3	53	01010011
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209	54	01010100	249	E8	11101000	289	E8	11101000	2C9	80	10000000	309	57	01010111	349	56	01010110	389	54	01010100	3C9	73	01110011
20A	56	01010110	24A	54	01010100	28A	54	01010100	2CA	22	00100010	30A	57	01010111	34A	57	01010111	38A	57	01010111	3CA	57	01010111
20B	78	01111000	24B	56	01010110	28B	54	01010100	2CB	22	00100010	30B	57	01010111	34B	56	01010110	38B	04	11010100	3CB	78	01111000
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222	66	01100110	262	57	01010111	2A2	06	11010110	2E2	57	01010111	322	07	00000011	362	57	01010111	3A2	57	01010111	3E2	56	01010110
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227	55	01010101	267	54	01010100	2A7	26	11010110	2E7	56	01010110	327	56	01010110	367	04	11010100	3A7	56	01010110	3E7	54	01010100
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002	C1	11000001	042	82	10000010	082	8D	10001101	0C2	01	00000001	102	89	10001001	142	C1	11000001	182	01	00000001	1C2	81	10000001
003	81	10000001	043	82	10000010	083	01	00000001	0C3	10	00010000	103	C1	11000001	143	C1	11000001	183	C1	11000001	1C3	91	10010001
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006	09	00001001	046	01	00000001	086	01	00000001	0C6	02	00000010	106	02	00000010	146	4D	01001101	186	01	00000001	1C6	13	00010011
007	01	00000001	047	01	00000001	087	01	00000001	0C7	02	00000010	107	01	00000001	147	01	00000001	187	02	00000010	1C7	01	00000001
008	49	01001001	048	11	00010001	088	50	01010000	0C8	01	00000001	108	11	00010001	148	01	00000001	188	02	00000010	1C8	01	00000001
009	C1	11000001	049	C1	11000001	089	01	00000001	0C9	C1	11000001	109	01	00000001	149	01	00000001	189	03	00000011	1C9	01	00000001
00A	13	00010011	04A	00	00000000	08A	01	00000001	0CA	01	00000001	10A	11	00010001	14A	01	00000001	18A	01	00000001	1CA	11	00010001
00B	01	00000001	04B	81	10000001	08B	0D	00001101	0CB	10	00010000	10B	01	00000001	14B	01	00000001	18B	01	00000001	1CB	81	10000001
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00E	C1	11000001	04E	01	00000001	08E	01	00000001	0CE	01	00000001	10E	01	00000001	14E	01	00000001	18E	89	10001001	1CE	41	01000001
00F	93	10010011	04F	81	10000001	08F	90	10010000	0CF	10	00010000	10F	01	00000001	14F	01	00000001	18F	01	00000001	1CF	41	01000001
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026	01	00000001	066	C1	11000001	0A6	89	10001001	0E6	03	00000011	126	13	00010011	166	02	00000010	1A6	11	00010001	1E6	02	00000010
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031	11	00010001	071	01	00000001	0B1	01	00000001	0F1	01	00000001	131	01	00000001	171	81	10000001	1B1	01	00000001	1F1	0D	00001101
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202	01	00000001	242	91	10010001	282	91	10010001	2C2	51	01010001	302	01	00000001	342	01	00000001	382	31	00110001	3C2	01	00000001
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207	01	00000001	247	03	00000011	287	01	00000001	2C7	01	00000001	307	01	00000001	347	81	10000001	387	01	00000001	3C7	01	00000001
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20D	02	00000010	24D	01	00000001	28D	01	00000001	2CD	01	00000001	30D	01	00000001	34D	01	00000001	38D	08	00001011	3CD	13	00010011
20E	01	00000001	24E	03	00000011	28E	01	00000001	2CE	01	00000001	30E	01	00000001	34E	11	00010001	38E	81	10000001	3CE	13	00010011
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221	11	00010001	261	11	00010001	2A1	01	00000001	2E1	01	00000001	321	01	00000001	361	41	01000001	3A1	01	00000001	3E1	01	00000001
222	01	00000001	262	41	01000001	2A2	89	10001001	2E2	C1	11000001	322	39	00110001	362	01	00000001	3A2	79	01111001	3E2	03	00000011
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225	01	00000001	265	09	00001001	2A5	01	00000001	2E5	C1	11000001	325	01	00000001	365	08	00001011	3A5	01	00000001	3E5	03	00000011
226	13	00010011	266	01	00000001	2A6	01	00000001	2E6	35	00110101	326	10	00010000	366	00	00000000	3A6	01	00000001	3E6	00	00000000
227	41	01000001	267	01	00000001	2A7	11	00010001	2E7	42	01000010	327	7D	01111101	367	10	00010000	3A7	01	00000001	3E7	08	00001011
228	90	10010000	268	01	00000001	2A8	31	00110001	2E8	F1	11110001	328	F9	11111001	368	81	10110001	3A8	41	01000001	3E8	00	00000000
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22A	02	00000010	26A	41	01000001	2AA	39	00111001	2EA	31	00110001	32A	01	00000001	36A	F1	11110001	3AA	81	10000001	3EA	01	00000001
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22D	81	10000001	26D	51	01010001	2AD	01	00000001	2ED	71	01110001	32D	39	00110001	36D	81	10000001	3AD	81	10000001	3ED	01	00000001
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22F	01	00000001	26F	01	00000001	2AF	01	00000001	2EF	50	01010000	32F	01	00000001	36F	00	00000000	3AF	89	10001001	3EF	07	00000111
230	FD	11111101	270	01	00000001	2B0	13	00010011	2F0	79	01111001	330	41	01000001	370	89	10111001	3B0	C1	11000001	3F0	02	00000010
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232	02	00000010	272	81	10000001	2B2	00	00000000	2F2	35	00110101	332	71	01110001	372	F9	11111001	3B2	81	10110001	3F2	02	00000010
233	11	00010001	273	65	01100101	2B3	01	00000001	2F3	31	00110001	333	51	01010001	373	81	10000001	3B3	09	00001001	3F3	00	00000000
234	02	00000010	274	11	00010001	2B4	00	00000000	2F4	81	10110001	334	79	01111001	374	81	10000001	3B4	00	0000000			

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HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
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001	C0	11000000	041	C8	11001000	081	01	00000001	0C1	C1	11000001	101	8C	10001100	141	C0	11000000	181	C4	11000100	1C1	CC	11001100
002	E7	11100111	042	E1	11100001	082	01	00000001	0C2	C0	11000000	102	01	00000001	142	84	10000100	182	C2	11000010	1C2	D1	11010001
003	AF	10101111	043	E1	11100001	083	00	00000000	0C3	C0	11000000	103	CC	11001100	143	84	10000100	183	D1	11010001	1C3	C1	11000001
004	82	10000010	044	C0	11000000	084	C0	11000000	0C4	C0	11000000	104	C0	11000000	144	04	00000100	184	C8	11001000	1C4	C0	11000000
005	03	00000011	045	01	00000001	085	D1	11010001	0C5	00	00000000	105	01	00000001	145	00	00000000	185	C0	11000000	1C5	00	00000000
006	00	00000000	046	C8	11001000	086	80	10110000	0C6	C4	11000100	106	D4	11010100	146	00	00000000	186	C8	11001000	1C6	C8	11001000
007	C0	11000000	047	E5	11100101	087	C0	11000000	0C7	C0	11000000	107	F0	11110000	147	E4	11100100	187	C4	11000100	1C7	C4	11000100
008	C3	11000011	048	00	00000000	088	40	01000000	0C8	C0	11000000	108	91	10010001	148	C8	11001000	188	C0	11000000	1C8	C0	11000000
009	C3	11000011	049	01	00000001	089	C0	11000000	0C9	D1	11010001	109	91	10010001	149	C0	11000000	189	C0	11000000	1C9	C0	11000000
00A	CD	11001101	04A	D8	11011000	08A	C4	11000100	0CA	C0	11000000	10A	C0	11000000	14A	C0	11000000	18A	C0	11000000	1CA	C0	11000000
00B	CD	11001101	04B	DE	11011110	08B	24	00100100	0CB	C0	11000000	10B	C0	11000000	14B	C0	11000000	18B	C0	11000000	1CB	40	01000000
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00D	C0	11000000	04D	40	01000000	08D	00	00000000	0CD	C1	11000001	10D	D4	11010100	14D	CC	11001100	18D	E4	11100100	1CD	00	00000000
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011	CC	11001100	051	01	00000001	091	C5	11000101	0D1	C0	11000000	111	00	00000000	151	01	00000001	191	D4	11010100	1D1	40	01000000
012	E0	11100000	052	C0	11000000	092	C0	11000000	0D2	C0	11000000	112	D0	11010000	152	C0	11000000	192	88	10001000	1D2	C0	11000000
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01E	C0	11000000	05E	D1	11010001	09E	FC	11111100	0DE	ED	11010101	11E	01	00000001	15E	C0	11000000	19E	C0	11000000	1DE	80	10000000
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020	00	00000000	060	F8	11111011	0A0	C0	11000000	0E0	00	00000000	120	00	00000000	160	D5	11010101	1A0	00	00000000	1E0	01	00000001
021	02	00000010	061	03	00000011	0A1	C1	11000001	0E1	00	00000000	121	C0	11000000	161	00	00000000	1A1	88	10001000	1E1	01	00000001
022	F7	11110111	062	00	00000000	0A2	00	00000000	0E2	C0	11000000	122	C4	11000100	162	C4	11000100	1A2	01	00000001	1E2	E4	11100100
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024	00	00000000	064	03	00000011	0A4	00	00000000	0E4	C0	11000000	124	00	00000000	164	04	00000100	1A4	01	00000001	1E4	C0	11000000
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029	02	00000010	069	C0	11000000	0A9	00	00000000	0E9	C0	11000000	129	D8	11011000	169	40	01000000	1A9	D4	11010100	1E9	C0	11000000
02A	02	00000010	06A	C0	11000000	0AA	D4	11010100	0EA	28	00101000	12A	D0	11010000	16A	74	01110100	1AA	C0	11000000	1EA	C4	11000100
02B	EB	11101011	06B	C0	11000000	0AB	00	00000000	0EB	C0	11000000	12B	A9	10101001	16B	8C	10001100	1AB	C4	11000100	1EB	04	00000100
02C	F7	11110111	06C	C0	11000000	0AC	00	00000000	0EC	C0	11000000	12C	C0	11000000	16C	80	10000000	1AC	C0	11000000	1EC	C0	11000000
02D	00	00000000	06D	00	00000000	0AD	01	00000001	0ED	C0	11000000	12D	8D	10001101	16D	80	10000000	1AD	C0	11000000	1ED	00	00000000
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031	C3	11000011	071	01	00000001	0B1	00	00000000	0F1	D1	11010001	131	99	10011001	171	80	10000000	1B1	C0	11000000	1F1	00	00000000
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034	C0	11000000	074	40	01000000	0B4	00	00000000	0F4	C0	11000000	134	01	00000001	174	04	00000100	1B4	C0	11000000	1F4	C8	11001000
035	00	00000000	075	C0	11000000	0B5	D2	11010010	0F5	00	00000000	135	C0	11000000	175	80	10000000	1B5	00	0000000			

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201	00	00000000	241	00	00000000	281	00	00000000	2C1	00	00000000	301	C0	11000000	341	00	00000000	381	89	10001001	3C1	C0	11000000
202	C8	11001000	242	C1	11000001	282	C1	11000001	2C2	01	00000001	302	C0	11000000	342	00	00000000	382	11	00010001	3C2	C0	11000000
203	C8	11001000	243	C0	11000000	283	C0	11000000	2C3	01	00000001	303	C0	11000000	343	AE	10101110	383	89	10001001	3C3	C0	11000000
204	C0	11000000	244	C0	11000000	284	F7	11110111	2C4	00	00000000	304	C0	11000000	344	40	01000000	384	F5	11110101	3C4	C0	11000000
205	CC	11001100	245	40	01000000	285	C0	11000000	2C5	00	00000000	305	C0	11000000	345	C0	11000000	385	00	00000000	3C5	C0	11000000
206	C0	11000000	246	50	01010000	286	68	01101000	2C6	40	01000000	306	C0	11000000	346	C5	11000101	386	00	00000000	3C6	C0	11000000
207	C0	11000000	247	C0	11000000	287	C0	11000000	2C7	C8	11001000	307	C0	11000000	347	40	01000000	387	B0	10110000	3C7	C0	11000000
208	8C	10001100	248	DC	11011100	288	C0	11000000	2C8	D1	11010001	308	C0	11000000	348	40	01000000	388	C2	11000010	3C8	C0	11000000
209	C0	11000000	249	00	00000000	289	00	00000000	2C9	00	00000000	309	C0	11000000	349	89	10001001	389	C0	11000000	3C9	C0	11000000
20A	00	00000000	24A	C1	11000001	28A	C1	11000001	2CA	C0	11000000	30A	C0	11000000	34A	C1	11000001	38A	01	00000001	3CA	C0	11000000
20B	C4	11000100	24B	C0	11000000	28B	C0	11000000	2CB	C0	11000000	30B	C0	11000000	34B	89	10001001	38B	C0	11000000	3CB	C0	11000000
20C	00	00000000	24C	D1	11010001	28C	F7	11110111	2CC	C1	11000001	30C	C0	11000000	34C	C2	11000010	38C	00	00000000	3CC	C0	11000000
20D	D0	11010000	24D	C0	11000000	28D	C8	11001000	2CD	01	00000001	30D	C0	11000000	34D	00	00000000	38D	C0	11000000	3CD	C0	11000000
20E	C8	11001000	24E	D1	11010001	28E	C0	11000000	2CE	D4	11010100	30E	C0	11000000	34E	C0	11000000	38E	FD	11111101	3CE	C0	11000000
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210	C0	11000000	250	D1	11010001	290	D1	11010001	2D0	00	00000000	310	C0	11000000	350	01	00000001	390	C0	11000000	3D0	C0	11000000
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212	F4	11110100	252	C1	11000001	292	C1	11000001	2D2	68	01101000	312	C0	11000000	352	C0	11000000	392	C1	11000001	3D2	00	00000000
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215	F0	11110000	255	D4	11010100	295	C0	11000000	2D5	C0	11000000	315	C0	11000000	355	02	00000100	395	C0	11000000	3D5	C4	11000100
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218	FC	11111100	258	D8	11011000	298	C0	11000000	2D8	C0	11000000	318	C0	11000000	358	03	00000011	398	04	00000100	3D8	00	00000000
219	00	00000000	259	00	00000000	299	C0	11000000	2D9	C4	11000100	319	C0	11000000	359	03	00000011	399	80	10000000	3D9	00	00000000
21A	C0	11001000	25A	C1	11000001	29A	C0	11000000	2DA	C0	00000000	31A	C0	11000000	35A	FC	11111100	39A	15	00010101	3DA	C0	11000000
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222	C2	11000100	262	F0	11110000	2A2	00	00000000	2E2	40	01000000	322	00	00000000	362	FC	11111100	3A2	01	00000001	3E2	C0	11000000
223	C2	11000100	263	C0	11000000	2A3	80	10000000	2E3	00	00000100	323	E0	11100000	363	C0	11000000	3A3	01	00000001	3E3	C0	11000000
224	CC	11001100	264	01	00000001	2A4	40	01000000	2E4	01	00000001	324	C0	11000000	364	D5	11010101	3A4	C0	11000000	3E4	00	00000000
225	F4	11110100	265	01	00000001	2A5	41	01000001	2E5	C1	11000001	325	C0	11000000	365	C0	11000000	3A5	E8	11101000	3E5	C0	11000000
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227	8C	10001100	267	C0	11000000	2A7	C0	11000000	2E7	04	00000100	327	00	00000000	367	C0	11000000	3A7	DD	11011101	3E7	C0	11000000
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22A	04	00000100	26A	F0	11110000	2AA	00	00000000	2EA	00	00000000	32A	C3	11000011	36A	0C	00001100	3AA	C1	11000001	3EA	C0	11000000
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230	00	00000000	270	E8	11101000	2B0	C0	11000000	2F0	02	00000010	330	C3	11000011	370	00	00000000	3B0	C0	11000000	3F0	04	00000100
231	00	00000000	271	00	00000000	2B1	89	10001001	2F1	C2	11000010	331	C0	11000000	371	D1	11010001	3B1	00	10000000	3F1	04	00000100
232	04	00000100	272	F9	11111001	2B2	00	00000000	2F2	DD	11011101	332	37	00110111	372	00	00000000	3B2	19	00011001	3F2	04	00000100
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HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
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001	86	10000110	041	06	00000110	081	F9	11111001	0C1	06	00000110	101	6F	01101111	141	A8	10101000	181	A8	10101000	1C1	A8	10101000
002	86	10000110	042	28	00101000	082	F9	11111001	0C2	86	10000110	102	D9	11011001	142	EF	11101111	182	A8	10101000	1C2	66	01100110
003	A8	10101001	043	28	00101000	083	C9	11001001	0C3	86	10000110	103	A8	10101000	143	ED	11101101	183	06	00000110	1C3	66	01100110
004	2D	00101101	044	86	10000110	084	86	10000110	0C4	86	10000110	104	86	10000110	144	A7	10100111	184	86	10000110	1C4	86	10000110
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00B	06	00000110	04B	A8	10101000	08B	C9	11001001	0CB	86	10000110	10B	86	10000110	14B	86	10000110	18B	06	00000110	1CB	A8	10101001
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00E	06	00000110	04E	86	10000110	08E	AF	10101111	0CE	A7	10100111	10E	95	10010101	14E	A9	10101001	18E	59	01011001	1CE	06	00000110
00F	A7	10100111	04F	F9	11111001	08F	27	00100111	0CF	86	10000110	10F	9A	10011010	14F	F9	11111001	18F	98	10011000	1CF	9F	10011111
010	06	00000110	050	86	10000110	090	06	00000110	0D0	86	00000110	110	86	10000110	150	D9	11011001	190	06	00000110	1D0	A8	10101000
011	98	10011000	051	89	10001001	091	06	00000110	0D1	86	00000110	111	09	00001001	151	4F	01001111	191	86	10000110	1D1	A8	10101011
012	28	00101000	052	06	00000110	092	86	10000110	0D2	86	10000110	112	A8	10101000	152	06	00000110	192	9D	10011101	1D2	86	10000110
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017	E8	11101000	057	6F	01101111	097	E7	11100111	0D7	DF	11011111	117	9A	10011010	157	D9	11011001	197	AA	10101010	1D7	9F	10011111
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026	86	10000110	066	A8	10101000	0A6	59	01011001	0E6	A7	10100111	126	27	00101111	166	97	10010111	1A5	67	01100111	1F4	86	10000110
027	86	10000110	067	F9	11111001	0A7	06	00000110	0E7	06	00000110	127	67	01100111	167	A8	10101000	1A6	06	00000110	1F5	98	10011011
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02A	A8	10101000	06A	86	10000110	0AA	86	10000110	0EA	C9	11001001	12A	A8	10101000	16A	A9	10101001	1A9	86	10000110	1F8	A9	10101001
02B	A8	10101000	06B	86	10000110	0AB	D9	11011001	0EB	86	10000110	12B	A5	10100101	16B	A9	10101001	1AA	86	10000110	1F9	A8	10101000
02C	06	00000110	06C	86	10000110	0AC	D9	11011001	0EC	86	10000110	12C	06	00000110	16C	2F	00101111	1AB	86	10000110	1FA	06	00000110
02D	A8	10101000	06D	79	01111001	0AD	79	01111001	0ED	86	10000110	12D	AF	10101111	16D	2F	00101111	1AC	86	10000110	1FB	27	00100111
02E	06	00000110	06E	89	10001001	0AE	59	01011001	0EE	79	01111001	12E	06	00000110	16E	C9	11001001	1AD	86	10000110	1FC	06	00000110
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030	06	00000110	070	27	00100111	0B0	06	00000110	0F0	59	01101001	130	86	10000110	170	66	01100110	1AF	06	00000110	1FE	2F	00101111
031	06	00000110	071	A7	10100111	0B1	D9	11011001	0F1	A8	10101000	131	86	10000110	171	ED	11101101	1B0	86	10000110	1FF	86	10000110
032	06	00000110	072	86	10000110	0B2	06	00000110	0F2	06	00000110	132	06	00000110	172	86	10000110	1B1	86	10000110			
033	06	00000110	073	18	00011000	0B3	AF	10101111	0F3	AA	10101010	133	A5	10100101	173	E9	11101001	1B2	A8	10101000			
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203	86	1000010	243	86	1000010	283	06	0000010	2C3	D9	1101100	303	86	1000110	343	95	1001010	383	DD	1101101	3C3	86	1000110
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205	A8	1010100	245	A9	1010100	285	98	1001100	2C5	00	0000000	305	86	1000110	345	86	1000010	385	00	0000000	3C5	86	1000110
206	86	1000010	246	A8	1010100	286	29	0010100	2C6	A9	1010100	306	86	1000110	346	28	0010100	386	A7	1010011	3C6	86	1000110
207	06	0000010	247	86	1000010	287	86	1000010	2C7	86	1000010	307	86	1000110	347	A9	1010100	387	AF	1010111	3C7	86	1000110
208	9D	1001101	248	E8	1110100	288	86	1000010	2C8	06	0000010	308	86	1000110	348	A9	1010100	388	28	0010100	3C8	86	1000110
209	A8	1010100	249	A7	1010011	289	A7	1010011	2C9	00	0000000	309	86	1000110	349	AF	1010111	389	86	1000010	3C9	86	1000110
20A	A7	1010011	24A	06	0000010	28A	06	0000010	2CA	86	1000010	30A	86	1000110	34A	86	1000010	38A	89	1000100	3CA	86	1000110
20B	06	0000010	24B	86	1000010	28B	06	0000010	2CB	86	1000010	30B	86	1000110	34B	AD	1010101	38B	86	1000010	3CB	86	1000110
20C	A7	1010011	24C	A8	1010100	28C	06	0000010	2CC	06	0000010	30C	86	1000110	34C	A8	1010100	38C	00	0000000	3CC	86	1000110
20D	86	1000010	24D	28	0010100	28D	A8	1010100	2CD	A7	1010011	30D	86	1000110	34D	27	0010011	38D	86	1000010	3CD	86	1000110
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211	A7	1010011	251	A7	1010011	291	A7	1010011	2D1	A7	1010011	311	86	1000110	351	98	1001000	391	A8	1010100	3D1	86	0000010
212	06	0000010	252	06	0000010	292	06	0000010	2D2	29	0010100	312	86	1000110	352	06	0000010	392	28	0010100	3D2	00	0000000
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216	98	1001101	256	86	1000010	296	A8	1010100	2D6	86	1000010	316	86	1000110	356	06	0000010	396	86	1000010	3D6	86	1000010
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21E	AF	1010111	25E	98	1001100	29E	86	1000010	2DE	28	0010100	31E	86	1000110	35E	28	0010100	39E	86	1000010	3DE	00	0000000
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221	A7	1010011	261	A7	1010011	2A1	98	1000100	2E1	86	1000010	321	86	1000110	361	06	0000010	3A1	A8	1010100	3E1	86	1000010
222	06	0000010	262	06	0000010	2A2	D9	1101100	2E2	A9	1010100	322	89	1000100	362	98	1001000	3A2	89	1000100	3E2	86	1000010
223	06	0000010	263	86	1000010	2A3	6D	0110101	2E3	27	0010011	323	28	0010100	363	86	1000010	3A3	A7	1010011	3E3	86	1000010
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225	95	1001010	265	D9	1101100	2A5	A9	1010100	2E5	28	0010100	325	86	1000010	365	86	1000010	3A5	06	0000010	3E5	86	1000010
226	A9	1010100	266	98	1001100	2A6	86	1000010	2E6	06	0000010	326	28	0010100	366	00	0000000	3A6	86	1000010	3E6	00	0000000
227	9F	1001111	267	86	1000010	2A7	86	1000010	2E7	A7	1010011	327	89	1000100	367	86	1000010	3A7	E8	1110100	3E7	86	1000010
228	27	0010011	268	A8	1010100	2A8	28	0010100	2E8	09	0000100	328	89	1000100	368	09	0000100	3A8	28	0010100	3E8	00	0000000
229	A7	1010011	269	A7	1010011	2A9	86	1000010	2E9	89	1000100	329	86	1000010	369	A7	1010011	3A9	E9	1110100	3E9	00	0000000
22A	27	0010011	26A	06	0000010	2AA	A8	1010100	2EA	09	0000100	32A	28	0010100	36A	09	0000100	3AA	28	0010100	3EA	86	1000010
22B	17	0001011	26B	A7	1010011	2AB	06	0000010	2EB	27	0010011	32B	86	1000010	36B	27	0010011	3AB	AA	1010101	3EB	86	1000010
22C	89	1000100	26C	86	1000010	2AC	A8	1010100	2EC	28	0010100	32C	09	0000100	36C	89	1000100	3AC	86	1000010	3EC	06	0000010
22D	06	0000010	26D	06	0000010	2AD	86	1000010	2ED	09	0000100	32D	89	1000100	36D	28	0010100	3AD	F9	1111100	3ED	86	1000010
22E	99	1001100	26E	86	1000010	2AE	06	0000010	2EE	86	1000010	32E	86	1000010	36E	97	1001011	3AE	86	1000010	3EE	00	0000000
22F	A8	1010100	26F	AA	1010101	2AF	98	1001100	2EF	A7	1010011	32F	86	1000010	36F	00	0000000	3AF	D9	1101100	3EF	A7	0010011
230	A8	1010100	270	86	1000010	2B0	86	1000010	2F0	89	1000100	330	28	0010100	370	89	1000100	3B0	28	0010100	3F0	A7	1010011
231	A7	1010011	271	A7	1010011	2B1	5F	0101111	2F1	28	0010100	331	86	1000010	371	A8	1010100	3B1	AF	1010111	3F1	27	0010011
232	27	0010011	272	06	0000010	2B2	00	0000000	2F2	06	0000010	332	09	0000100	372	89	1000100	3B2	09	0000100	3F2	A7	1010011
233	19	0001100	273	DF	1101111	2B3	86	1000010	2F3	09	0000100	333	A7	1010011	373	A0	1010000	3B3	49	0100100	3F3	00	0000000
234	86	1000010	274	A9	1010100	2B4	00	0000000	2F4	09	0000100	334	89	1000100	374	28	0010100	3B4	00	0000000	3F4	28	0010100
235	86	1000010	275	A8	1010100	2B5	A7	1010011	2F5	89	1000100	335	86	1000010	375	28	0010100	3B5	06	0000010	3F5	28	0010100
236	A8	1010100	276	27	0010011	2B6	00	0000000	2F6	86	1000010	336	28	0010100	376	86	1000010	3B6	86	1000010	3F6	A8	1010100
237	06	0000010																					

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001	C7	11000111	041	2D	00101101	081	7E	01111110	0C1	28	00101000	101	24	00100100	141	47	01000111	181	27	00100111	1C1	67	01100111
002	68	01101000	042	4D	01001101	082	5E	01011110	0C2	27	00100111	102	07	00000111	142	07	00000111	182	47	01000111	1C2	05	00000101
003	47	01000111	043	2D	00101101	083	75	01101110	0C3	47	01000111	103	47	01000111	143	47	01000111	183	0D	00001101	1C3	50	01100000
004	60	01100000	044	E7	11100111	084	27	00100111	0C4	44	01000100	104	27	00100111	144	67	01100111	184	47	01000111	1C4	25	00100101
005	64	01100100	045	27	00100111	085	6D	01101101	0C5	E8	11101000	105	27	00100111	145	67	01100111	185	44	01000100	1C5	64	01100100
006	47	01000111	046	21	00100001	086	47	01000111	0C6	4E	01001110	106	47	01000111	146	07	00000111	186	0D	00001101	1C6	6D	01101101
007	47	01000111	047	69	01101001	087	67	01100111	0C7	27	00100111	107	67	01100111	147	09	00001001	187	4E	01001110	1C7	67	01100111
008	5E	01011110	048	20	00100000	088	67	01100111	0C8	47	01000111	108	00	00000000	148	27	00100111	188	07	00000111	1C8	47	01000111
009	56	01010110	049	04	00000100	089	2D	00101101	0C9	68	01101000	109	04	00000100	149	47	01000111	189	47	01000111	1C9	27	00100111
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00B	4D	01001101	04B	47	01000111	08B	09	00001001	0CB	47	01000111	10B	47	01000111	14B	47	01000111	18B	0D	00001101	1CB	67	01100111
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012	4D	01001101	052	60	01100000	092	27	00100111	0D2	47	01000111	112	07	00000111	152	65	01100101	192	47	01000111	1D2	07	00000111
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02B	27	00100111	06B	27	00100111	0AB	36	00110110	0EB	67	01100111	12B	47	01000111	16B	07	00000111	1AB	07	00000111	1EB	6E	01101110
02C	69	01101001	06C	47	01000111	0AC	16	00010110	0EC	07	00000111	12C	6D	01101101	16C	64	01100100	1AC	47	01000111	1EC	65	01100101
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8			7			6			5			4			3			2			1		
HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX DAT	BIN DAT
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21C	67	01100111	25C	27	00100111	29C	07	00000111	2DC	27	00100111	31C	27	00100111	35C	47	01000111	39C	47	01000111	3DC	6D	01101101
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