

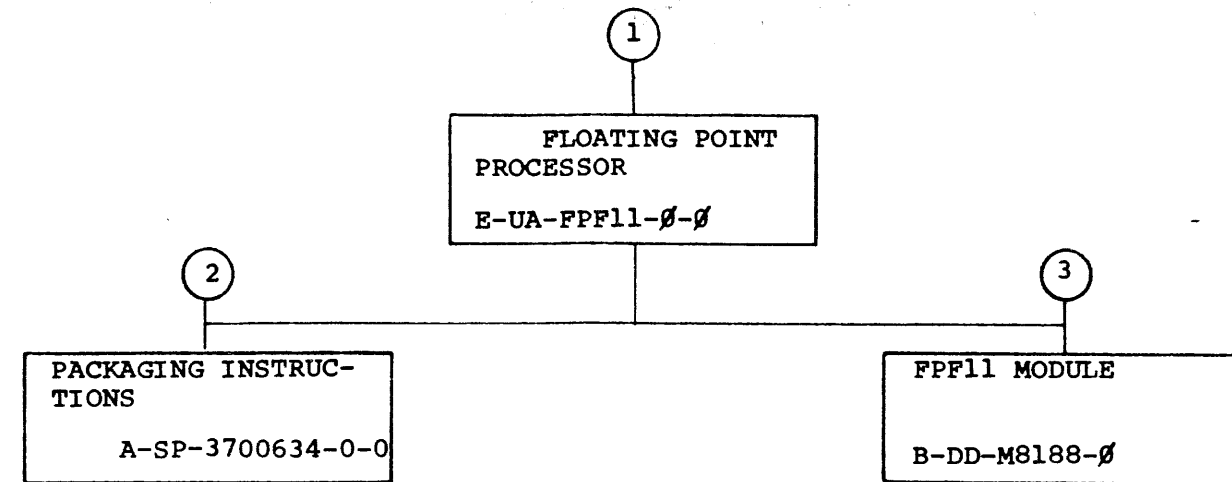
MF^2

UNIT VARIATIONS

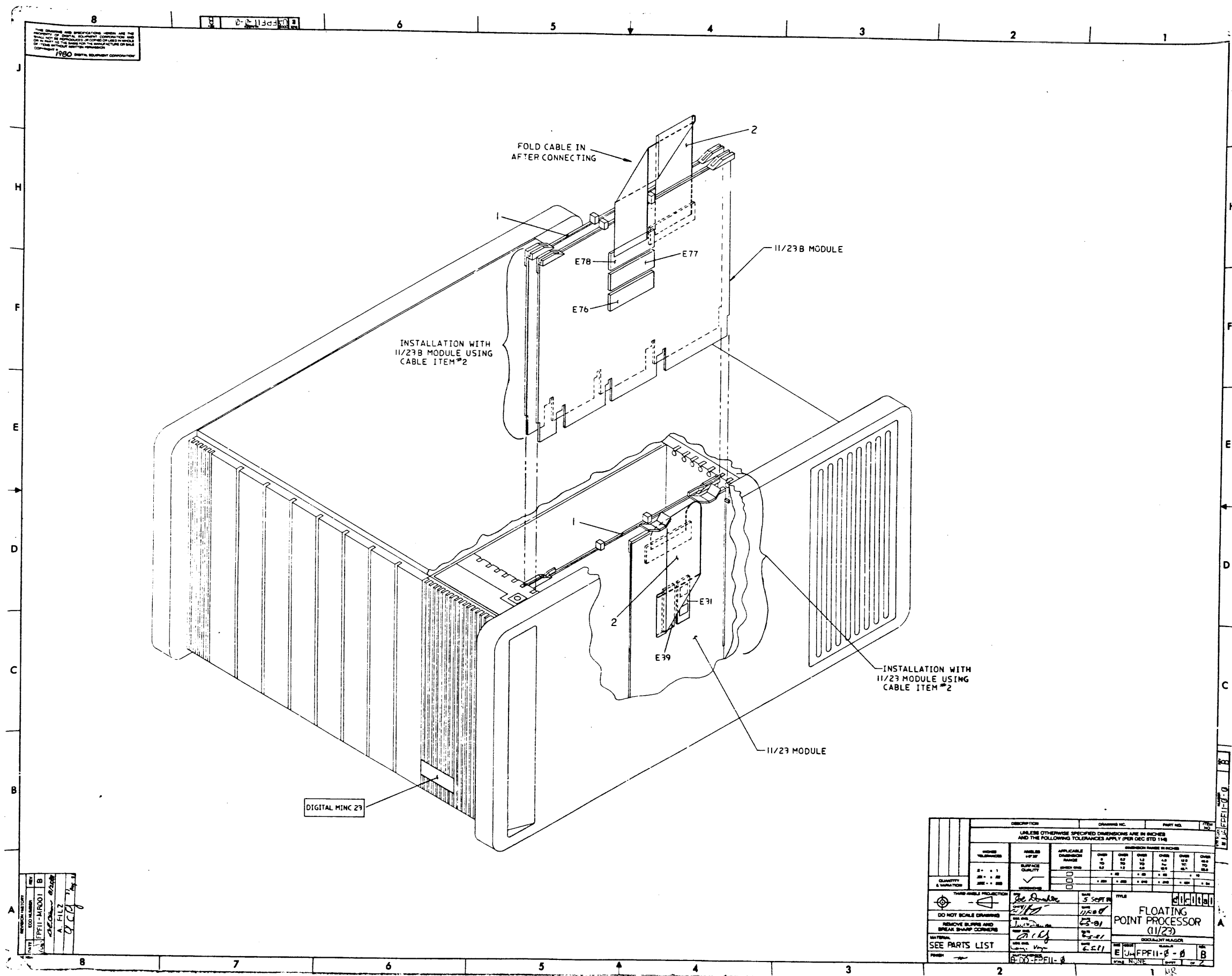
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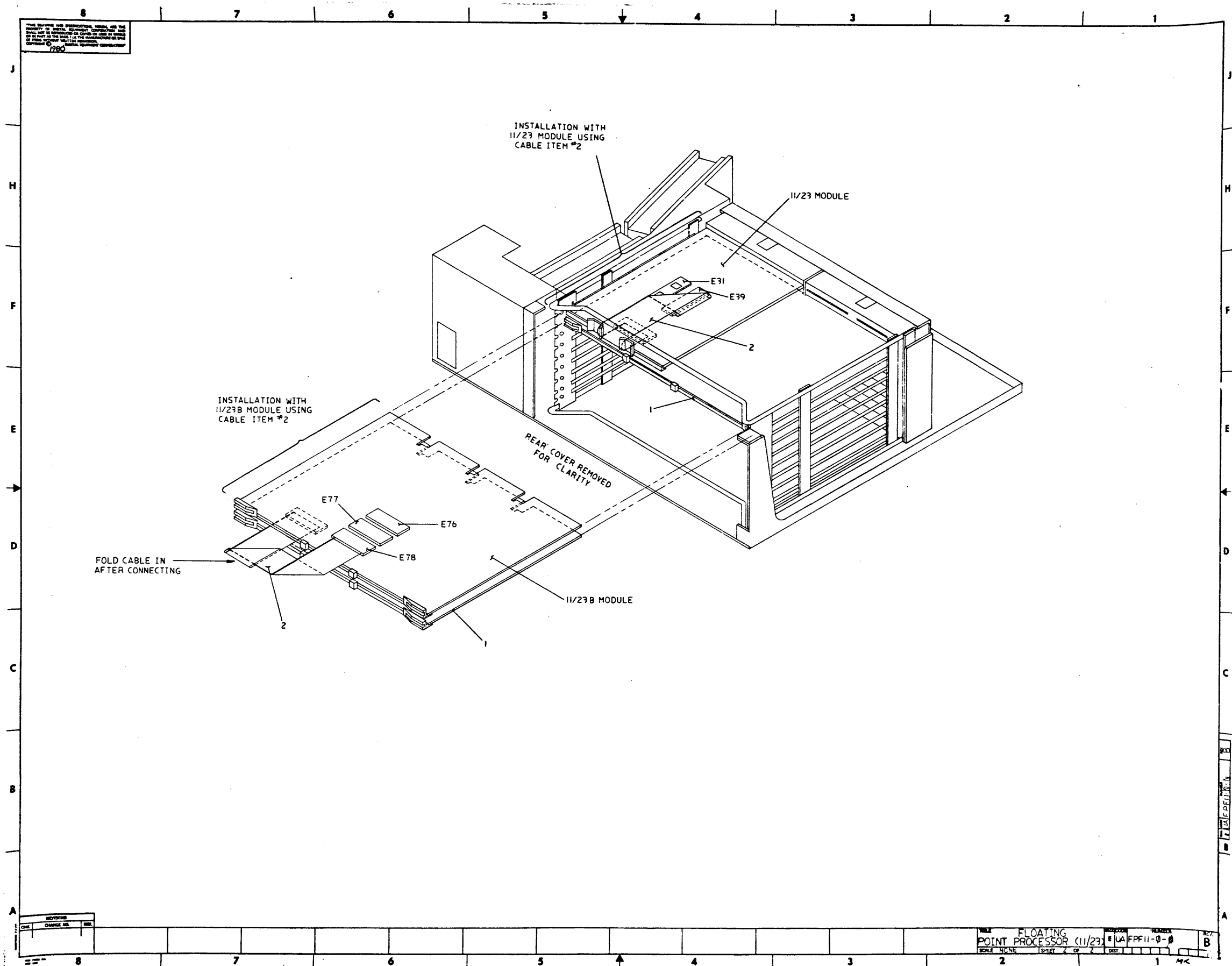
REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE									
REV.	CHANGE NO.	FPF11-0	J. DONATEL	5/28/80	digital FLOATING POINT PROCESSOR (11/23')									
			CHK'D	DATE										
			PROJ. ENG.	DATE										
			PROD.	DATE										
CHK		SHEET 1 OF 3			SIZE	CODE	NUMBER				REV			
					B	DD	FPF11-0				A			
					DIST.									

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TITLE	SIZE	CODE	NUMBER	REV
FLOATING POINT PROCESSOR (11/23)	B	DD	FPF11-0	A
SHEET 2 OF 3				





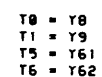
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
				00	A
1	1	D-UA-M8188-0-0	M8188-00	FPF11 FLOATING POINT PROCESSOR	1 1
2	2		1700254-00	CABLE ASSY,14"LG,40PIN DIP CONN	1 -
3	3		1700254-01	CABLE ASSY,10"LG,40PIN DIP CONN	1 1
4	4	EK-FPF11-TM	EKFPF11-TM	TECHNICAL MANUAL FPF11	1 1
5	5		MP01285-00	HOT FLOATING POINT PROCESSOR	1 1
6	6	A-SP-3700634-0-0	3700634-01	PKG. OPTION FPF11	1 1
7	7	CJFPA *		FPF11 DAIG. PART #1	REF REF
8	8	CJFPB *		FPF11 DIAG. PART #2	REF REF

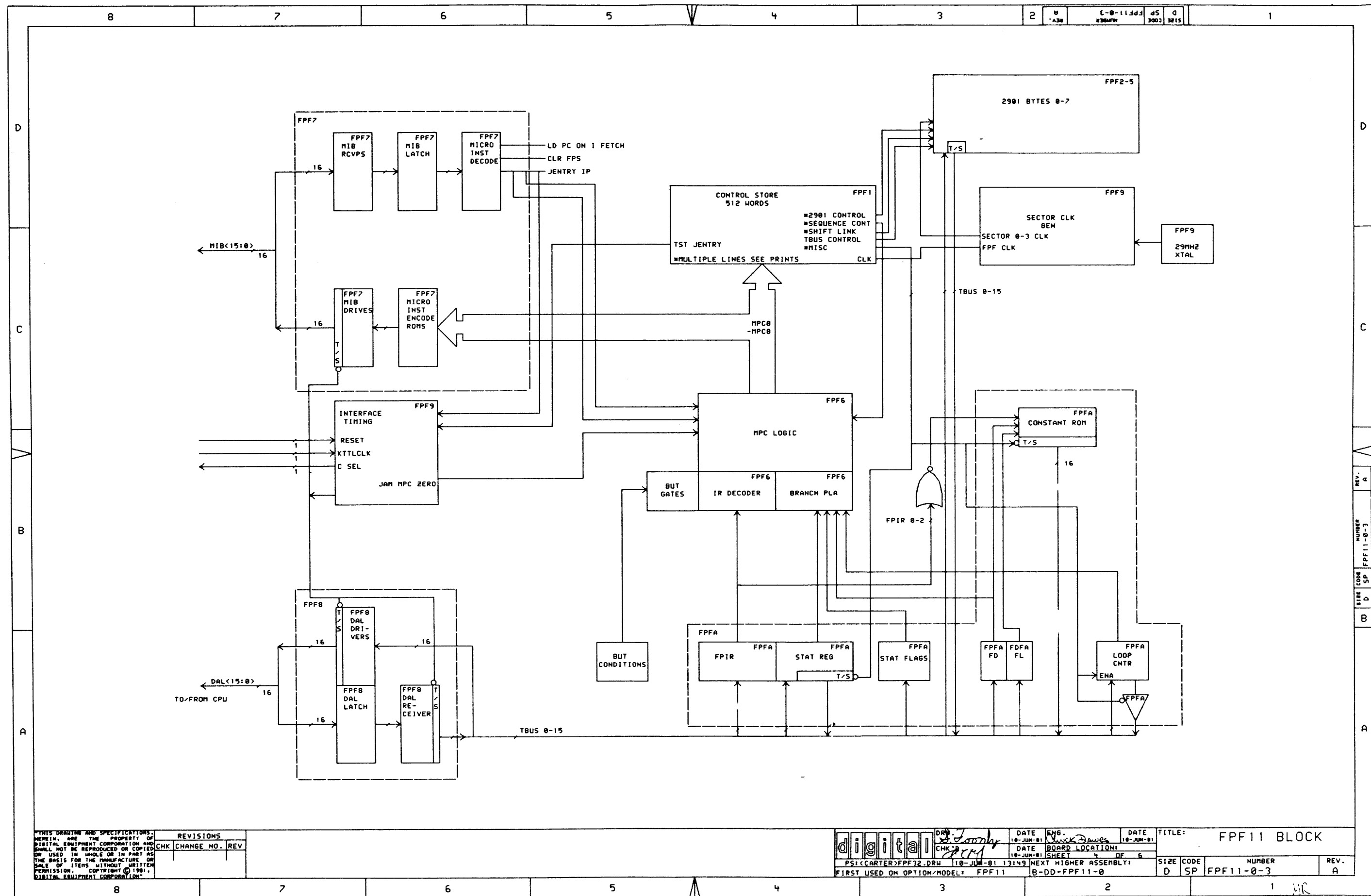
9 NOTE: 1.* DENOTES LATEST REV.

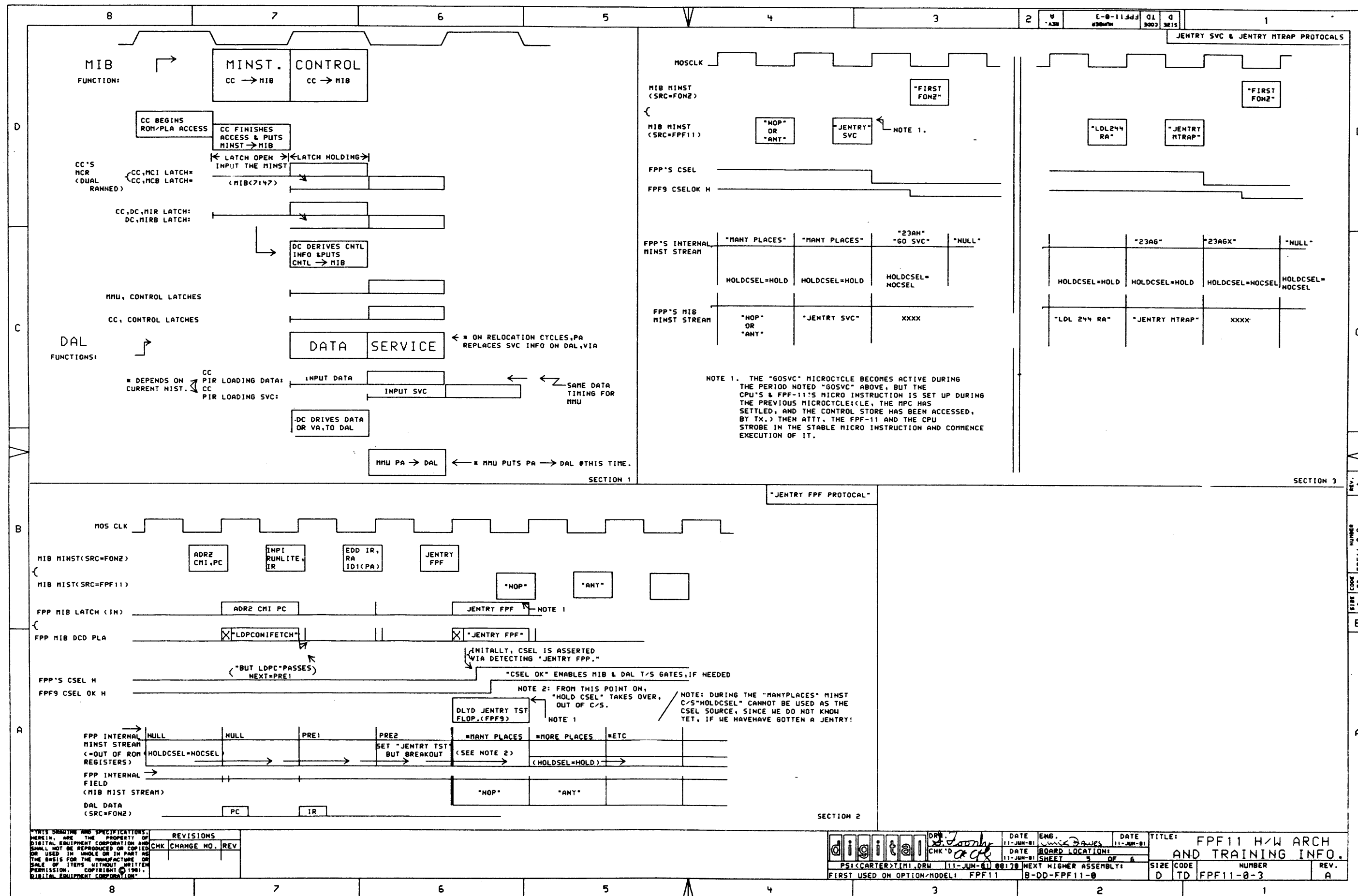
REVISION HISTORY		BASIC PART NO: FPF11		DRN: J. DONAHER	DATE: 5-SEP-80	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: B. HOVEY	DATE: 1-FEB-81	TITLE PARTS LIST			
---	INITIAL	A	SECTION VARIATION INDEX			FLOATING POINT PROCESSOR			
AF	FPF11-MR001	B	[A] 00,A						
			[B]	DES.ENG.: ART FILZ	DATE: 1-MAR-81				
			[C]	RESP.ENG.: ART FILZ	DATE: 1-MAR-81	DOCUMENT NUMBER			
			[D]			SIZE	CODE	NUMBER	REV
			[E]	MFG.ENG.: J. APONTE	DATE: 1-MAR-81	K	PL	FPF11-0-DBF	B
			[F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
				E-UA-FPF11-0-0	E-UA-FPF11-0-0	22717B,PLS		5	
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COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION									

MR

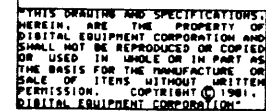
8	7	6	5	4	3	2	1																																					
FPF11 ARCH/TIMING																																												
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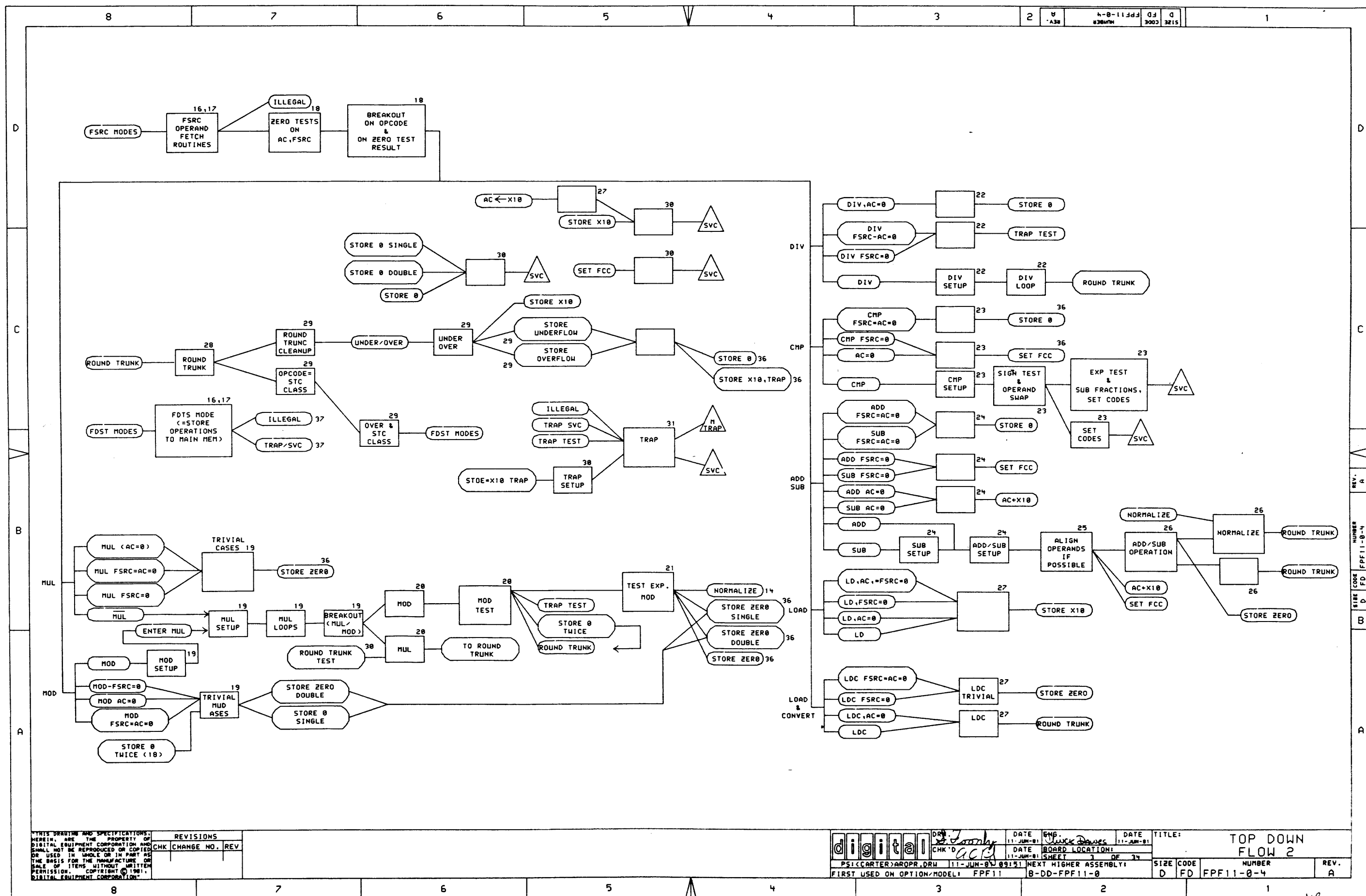
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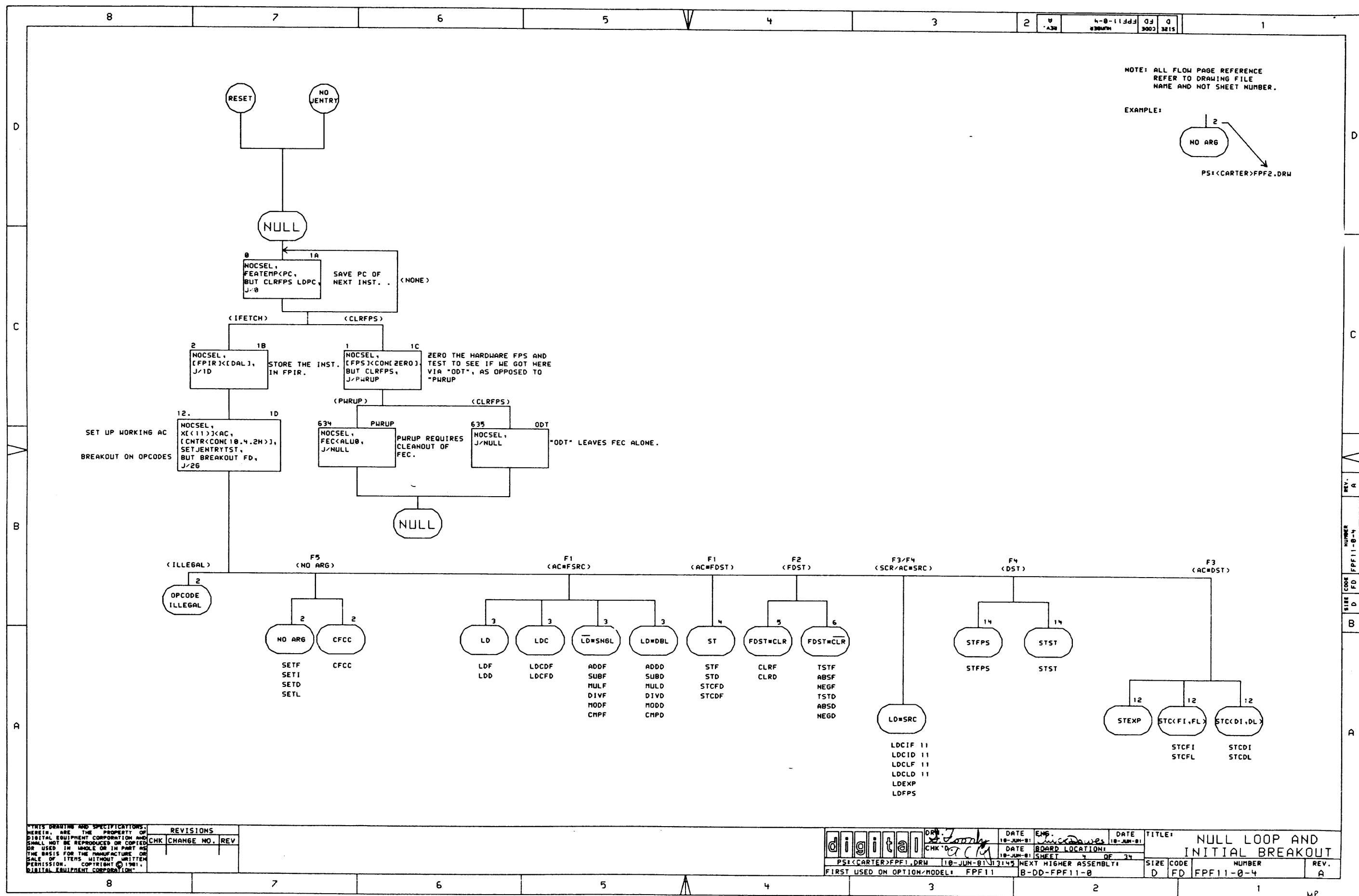
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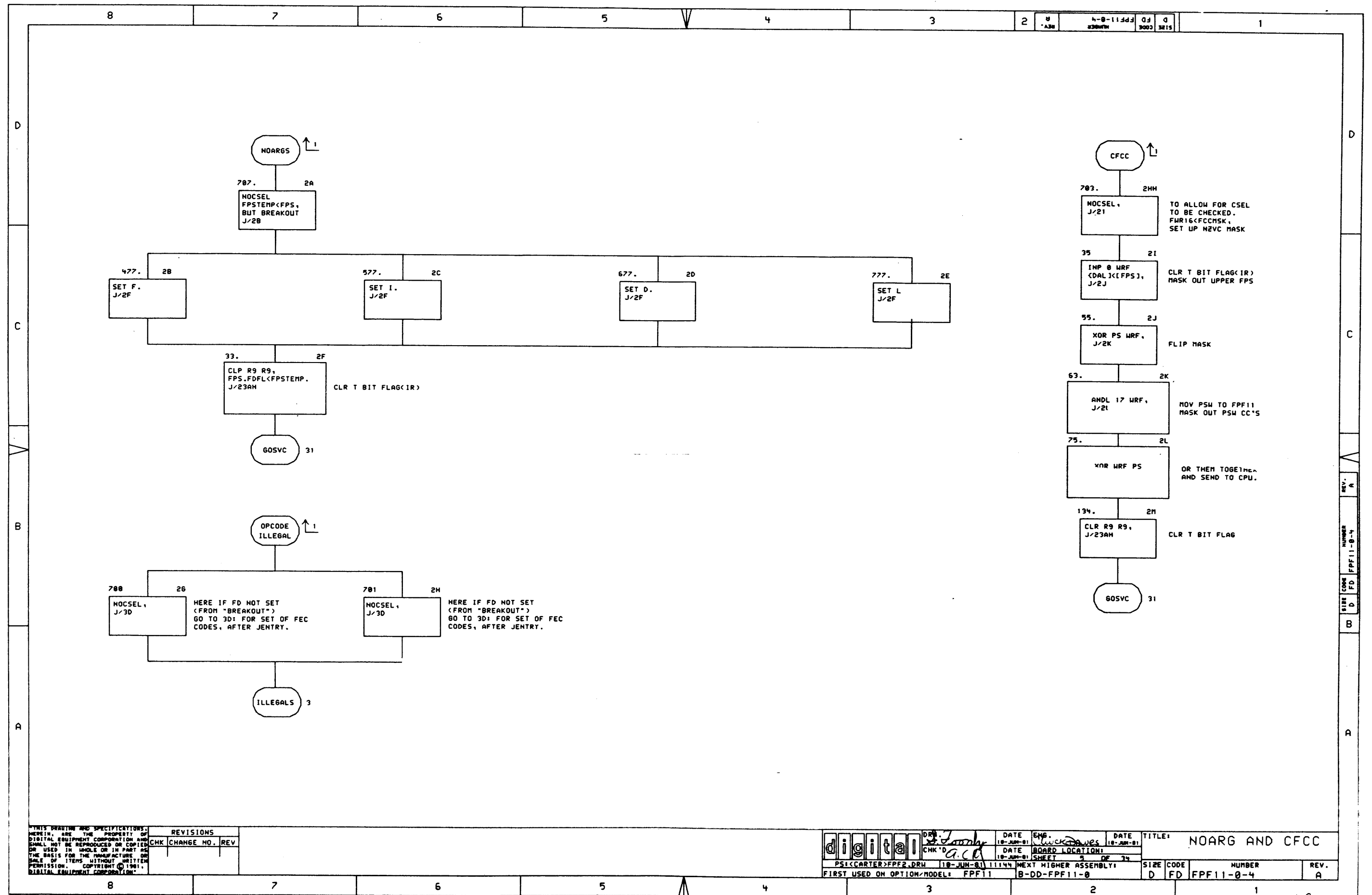
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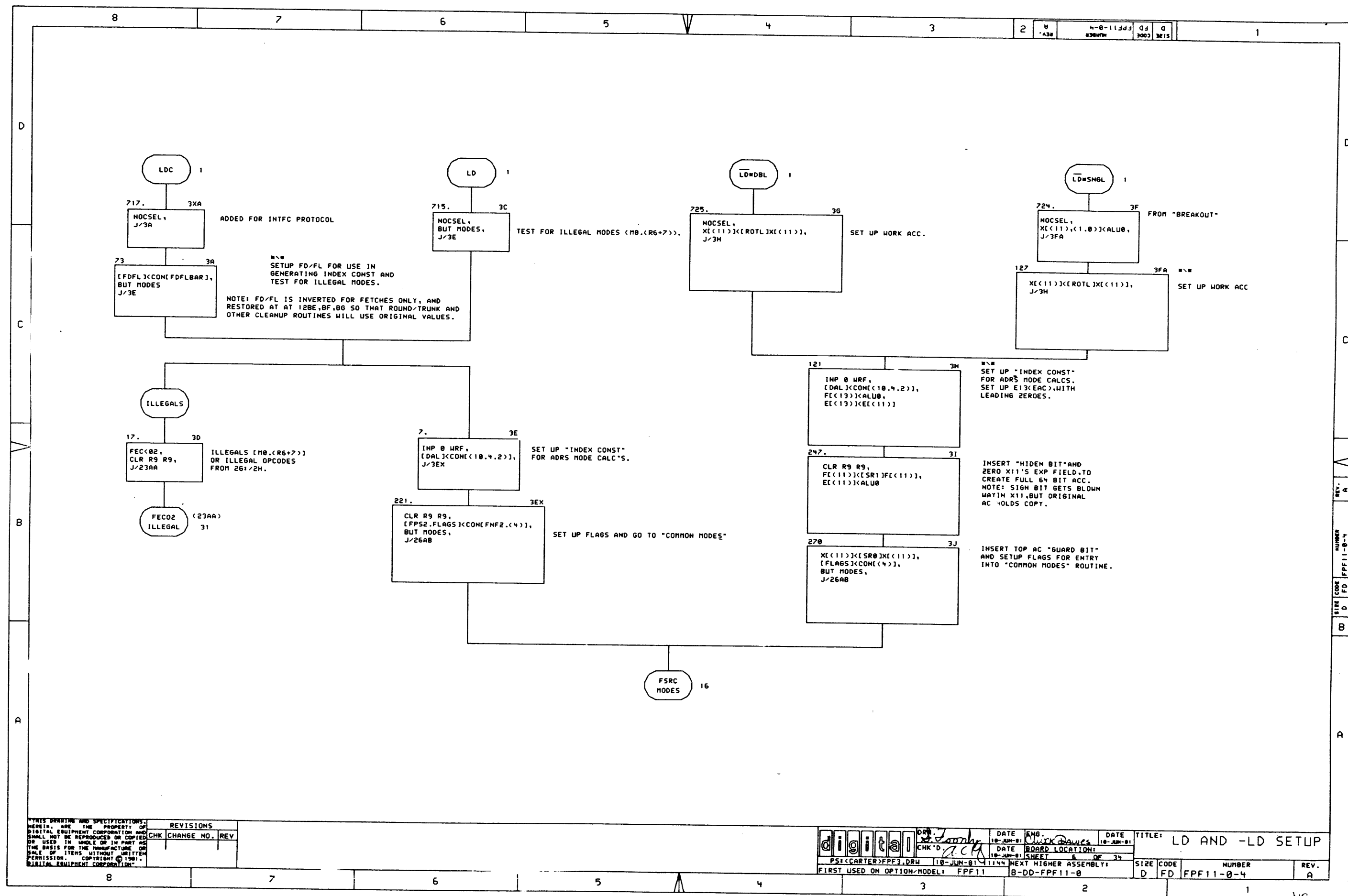
TOP DOWN
FLOW 1

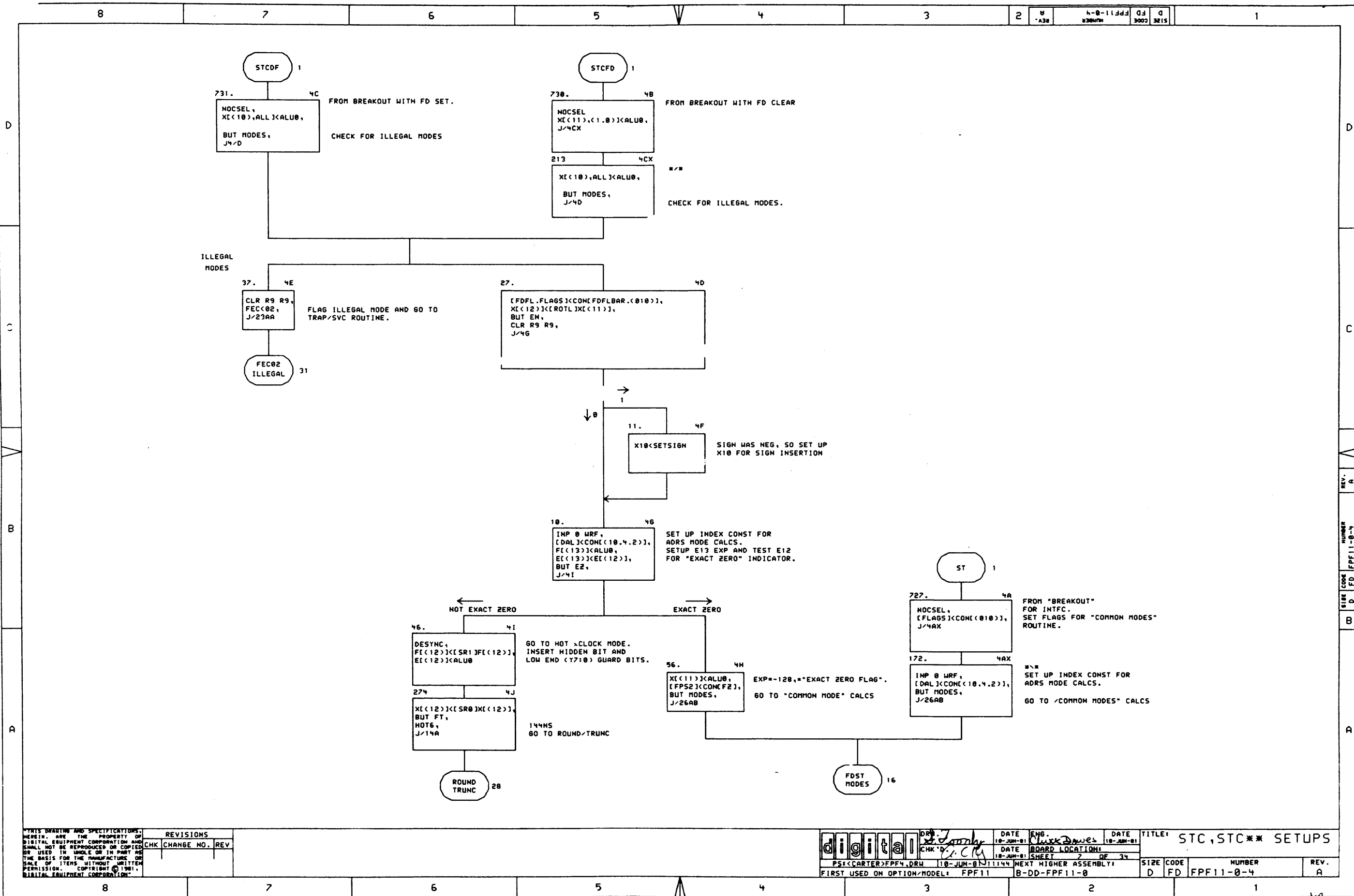
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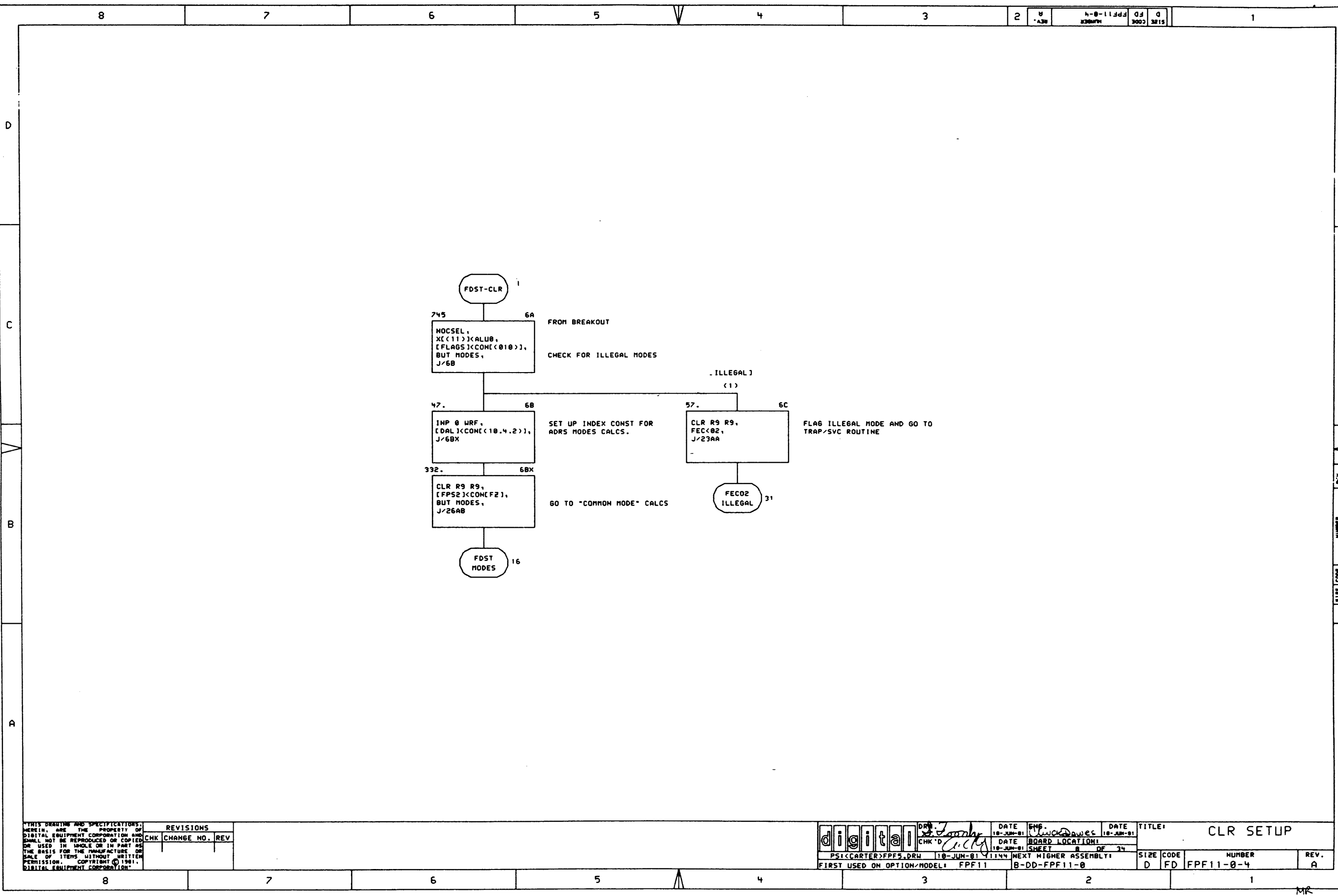




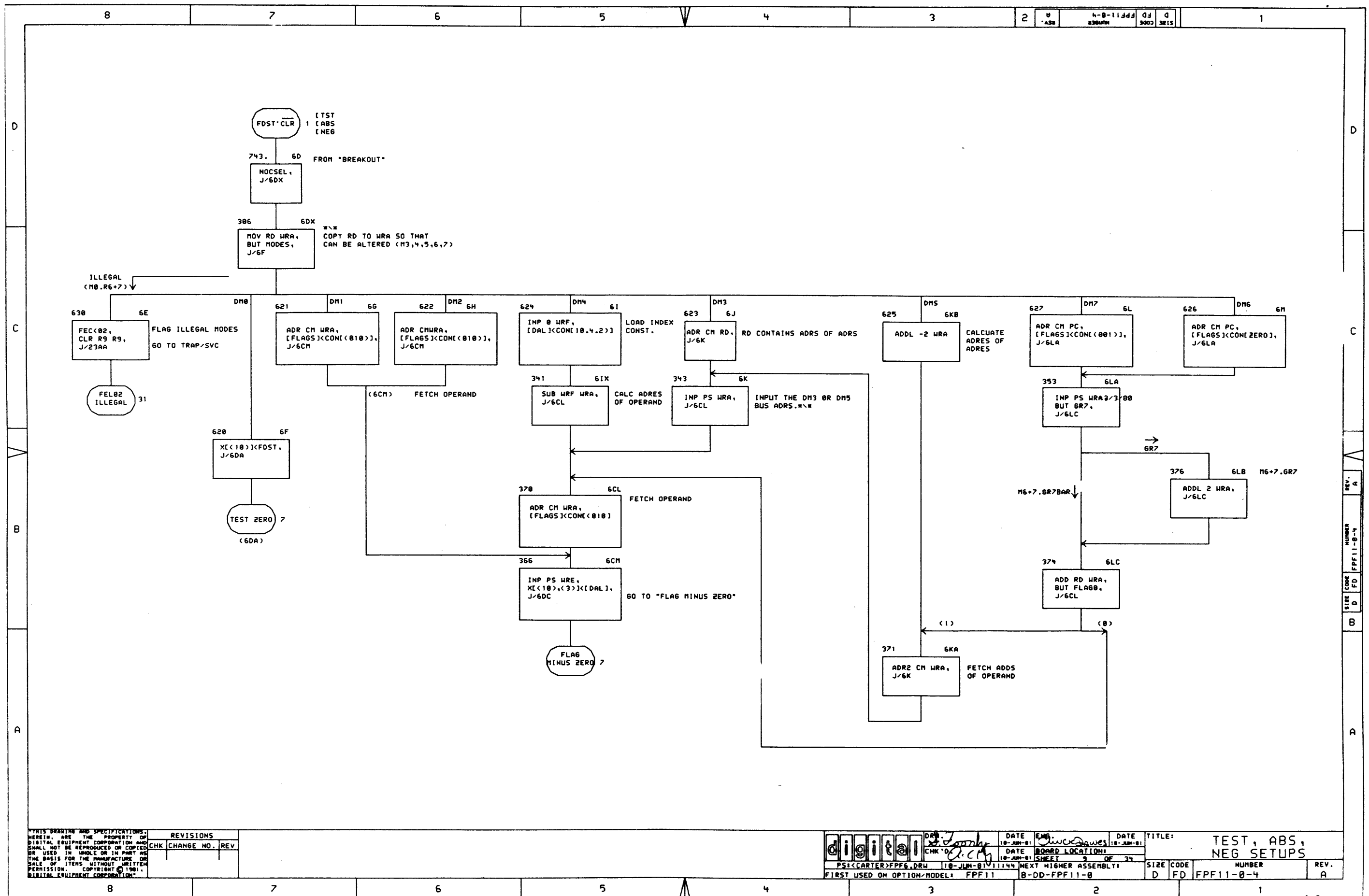


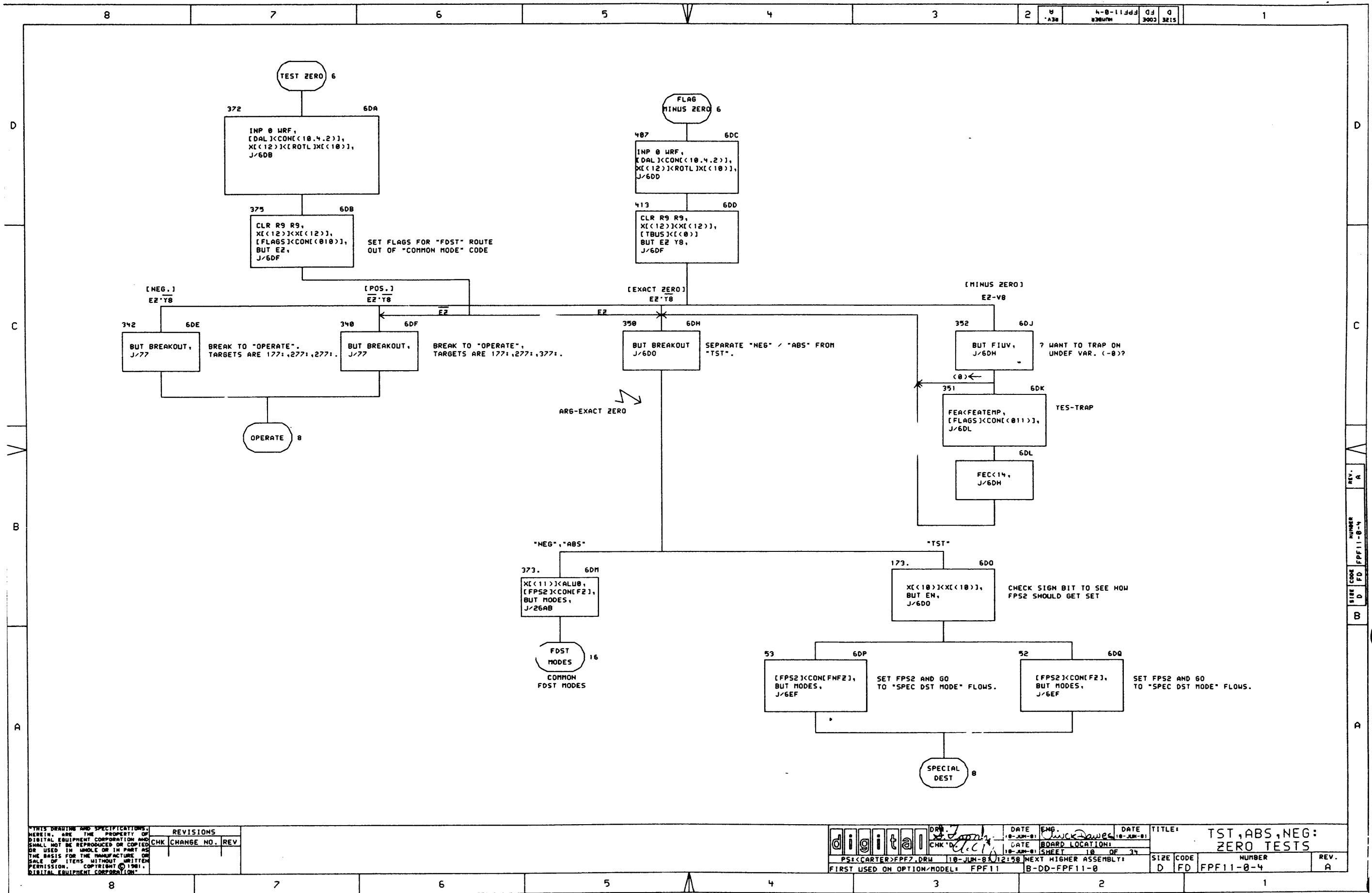


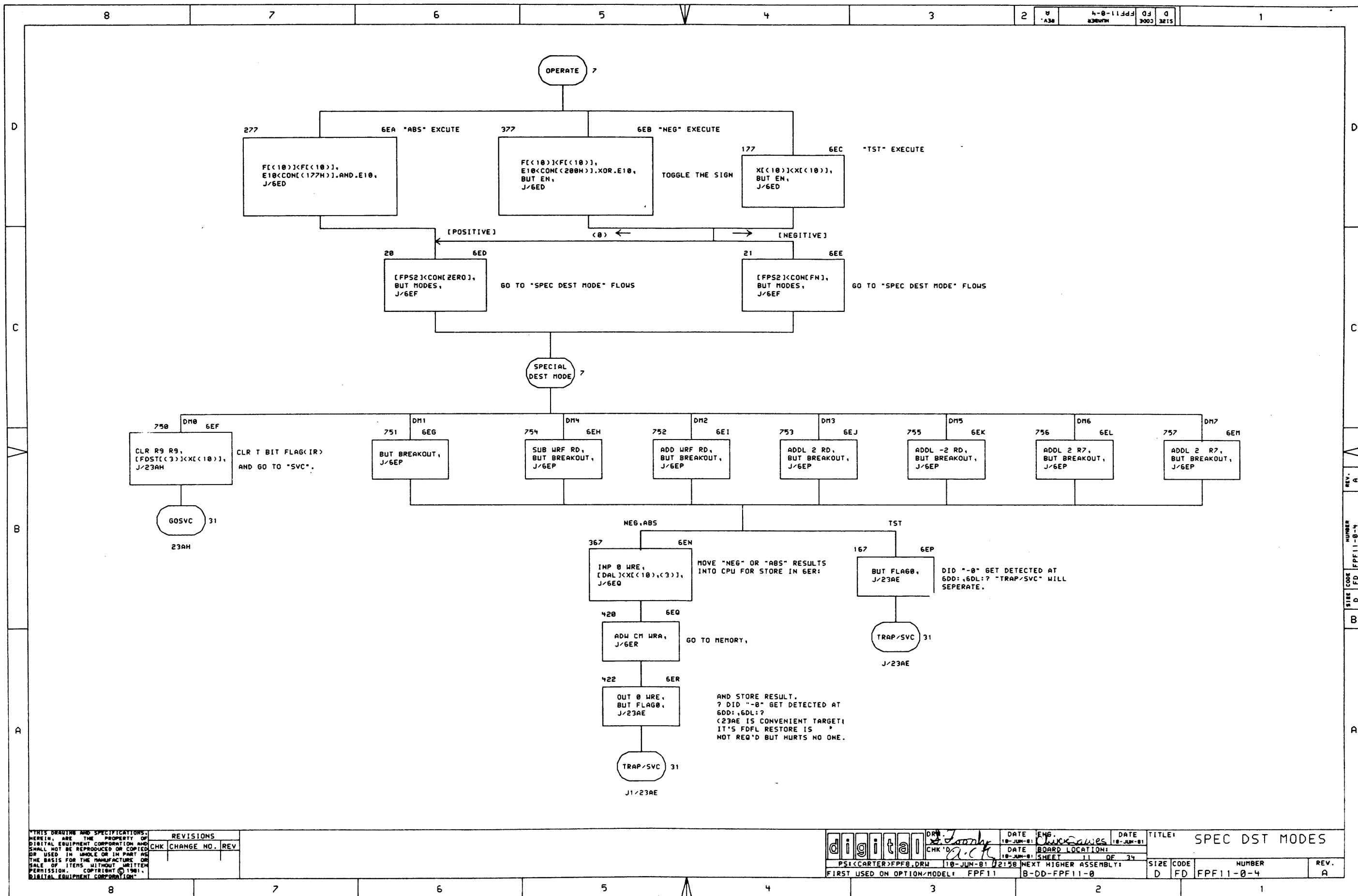


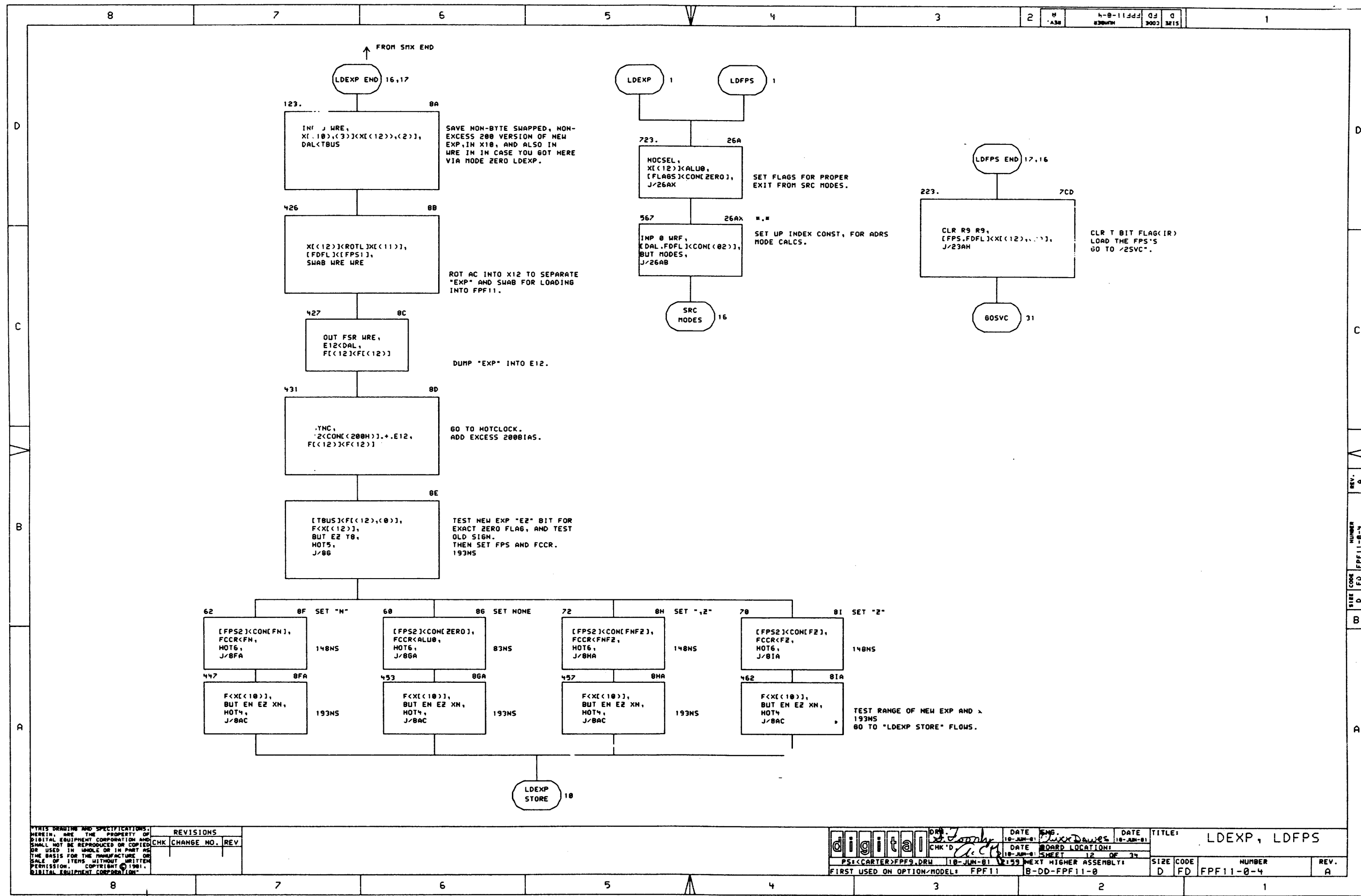


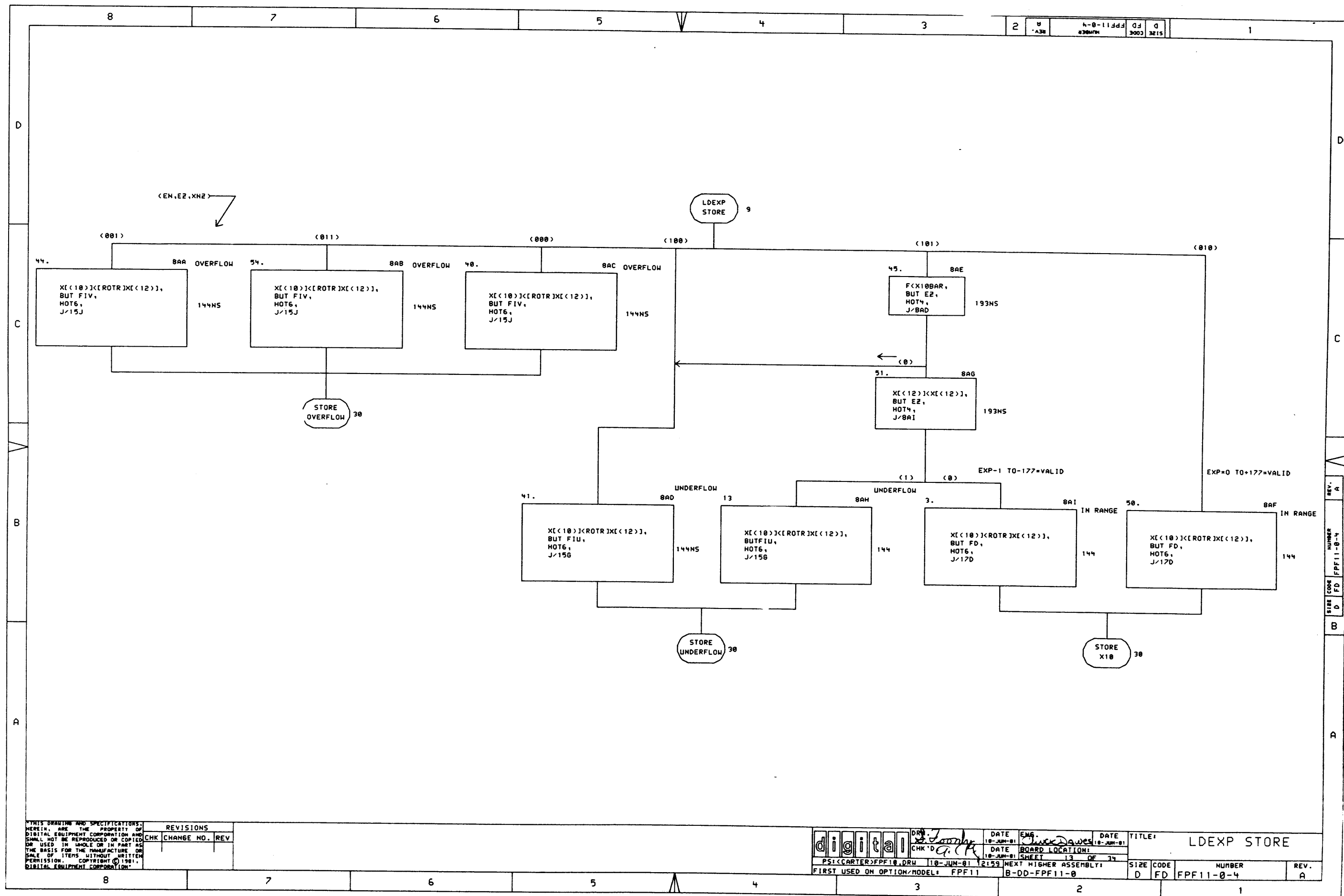
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CHK	CHANGE NO.	REV			18-JUN-81	18-JUN-81	18-JUN-81	CLR SETUP	
				DATE		DATE			
				18-JUN-81		18-JUN-81			
				SHEET		SHEET			
				1144		1144			
				NEXT HIGHER ASSEMBLY		NEXT HIGHER ASSEMBLY			
				B-DD-FPF11-0		B-DD-FPF11-0			
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				D		FD		FPF11-0-4	
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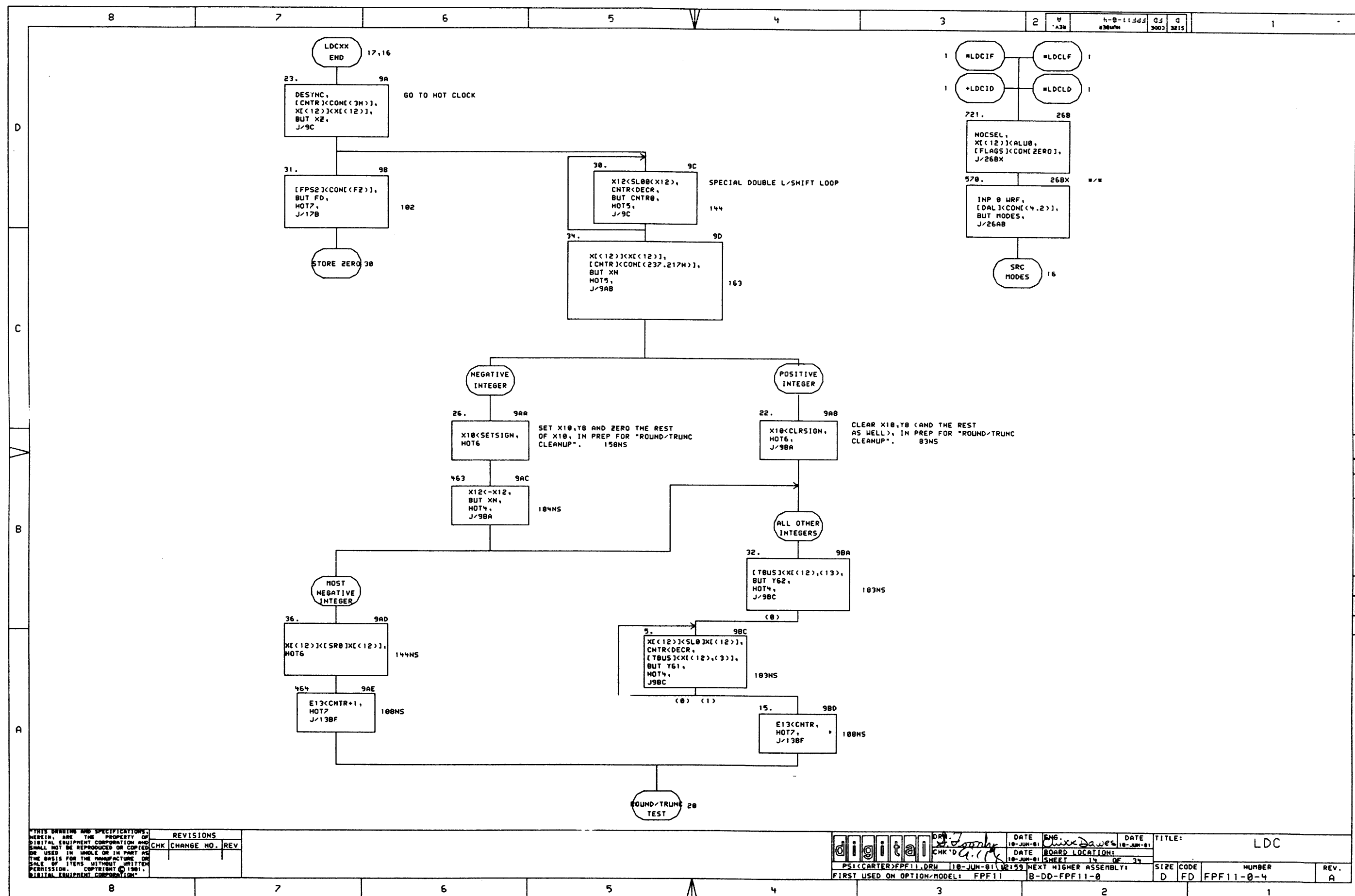


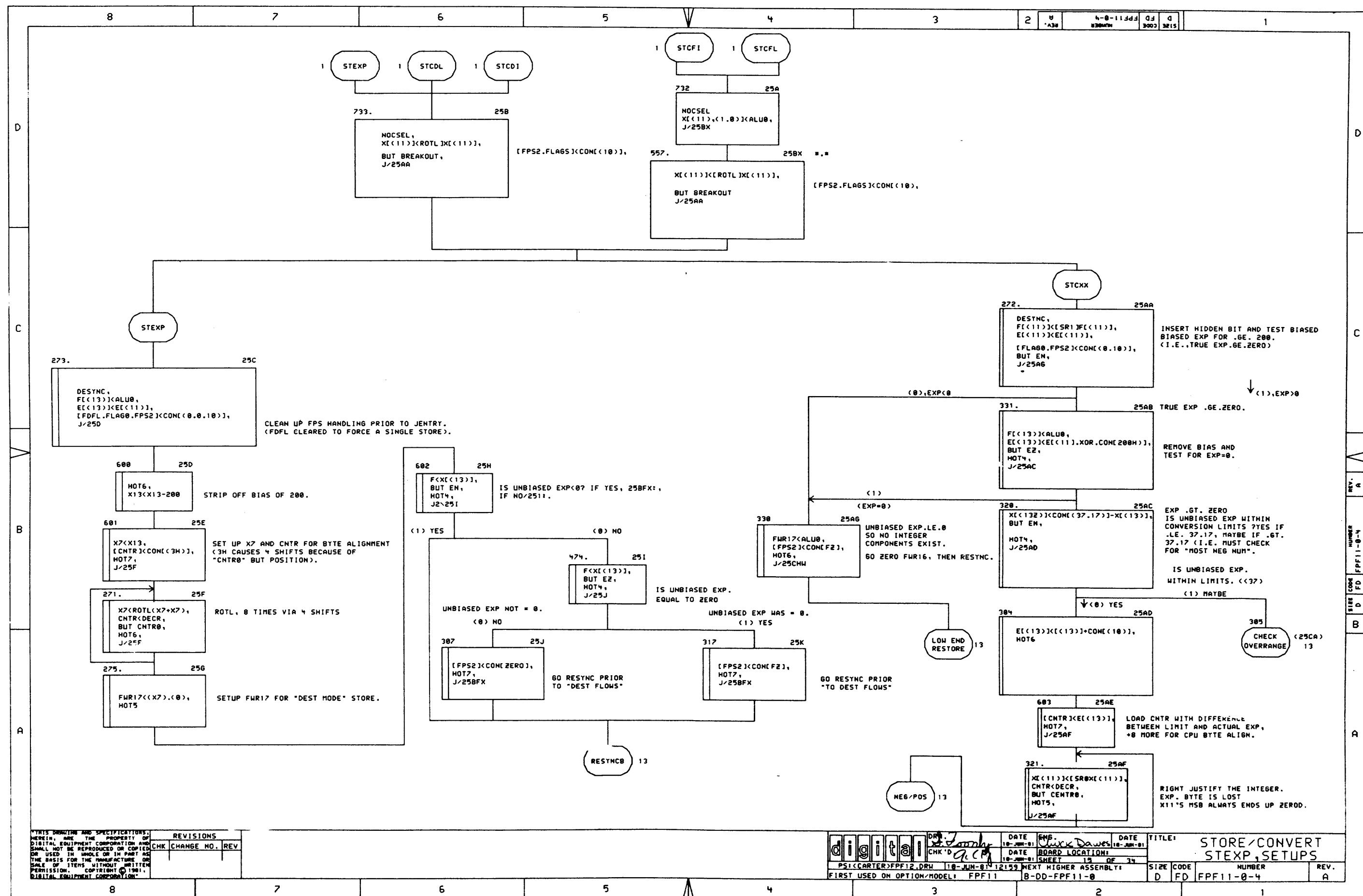


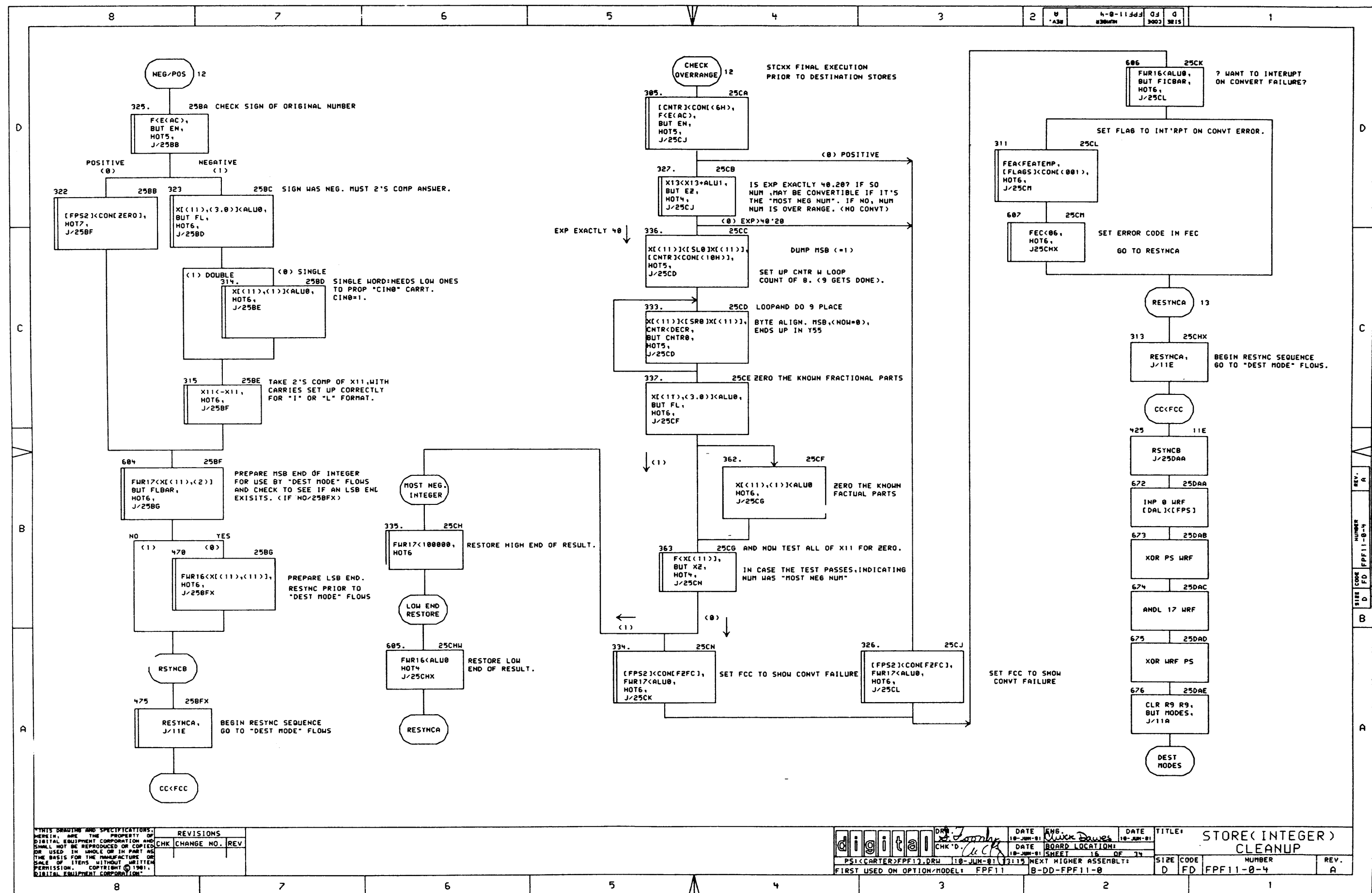


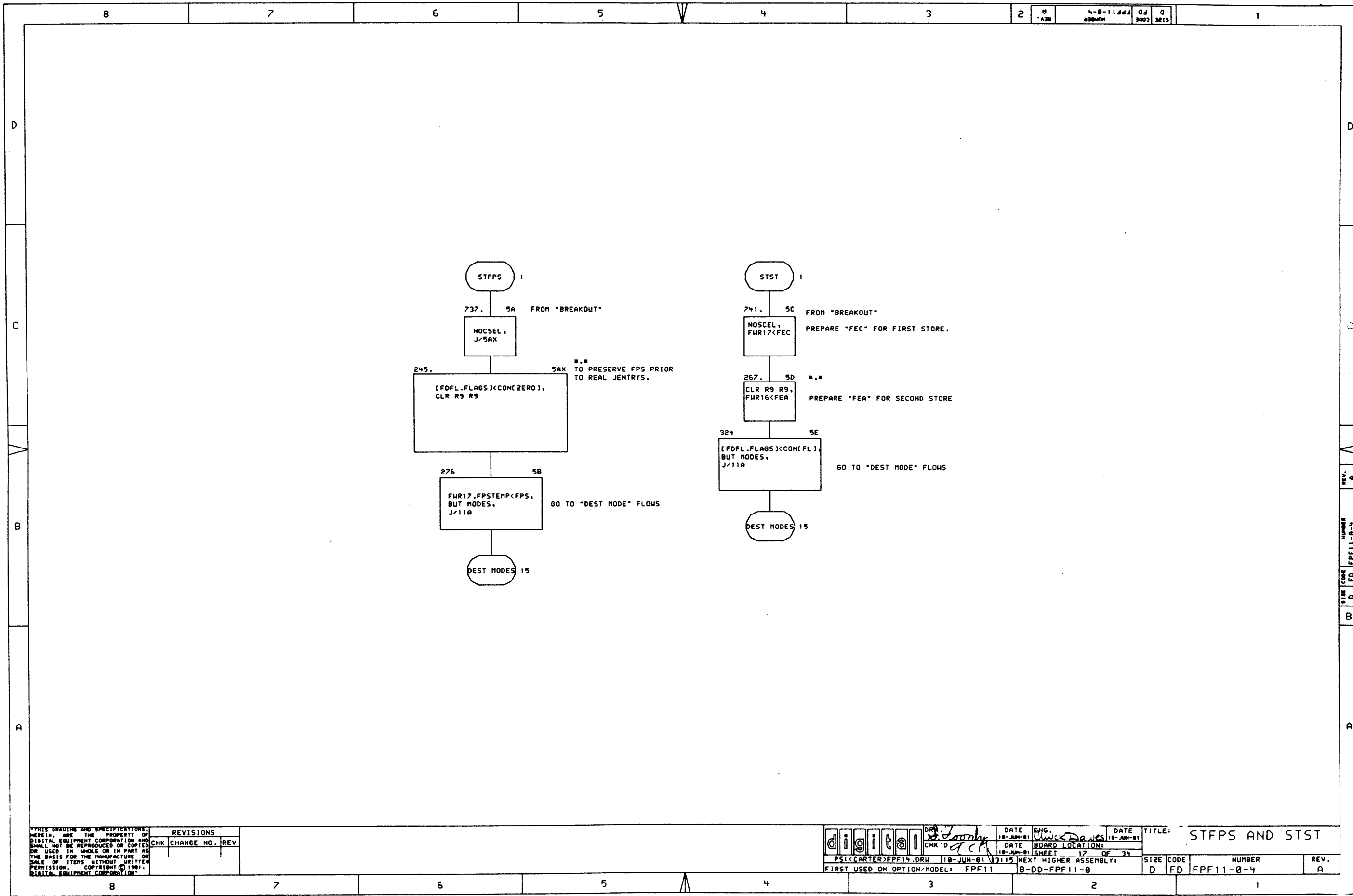












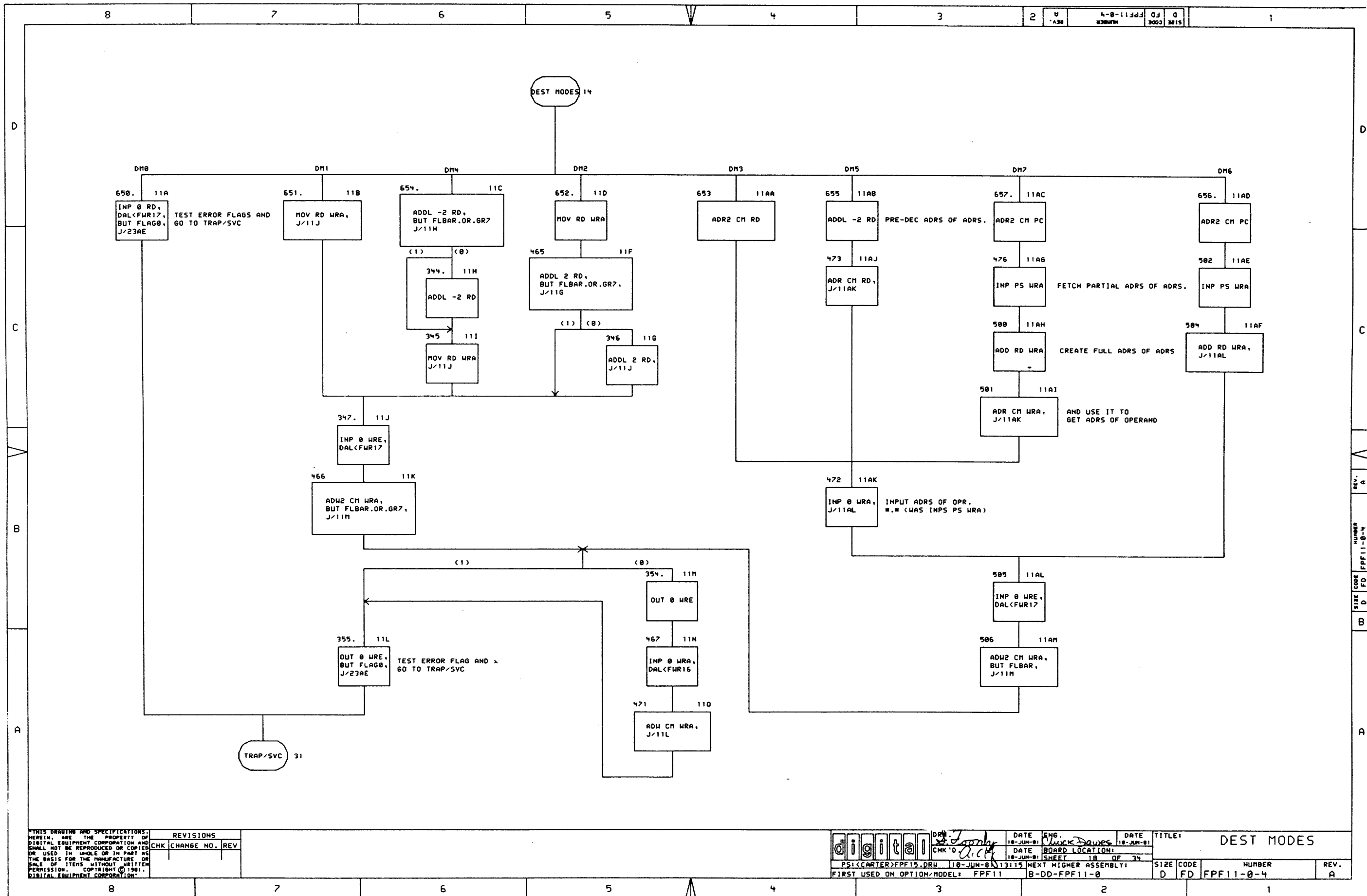
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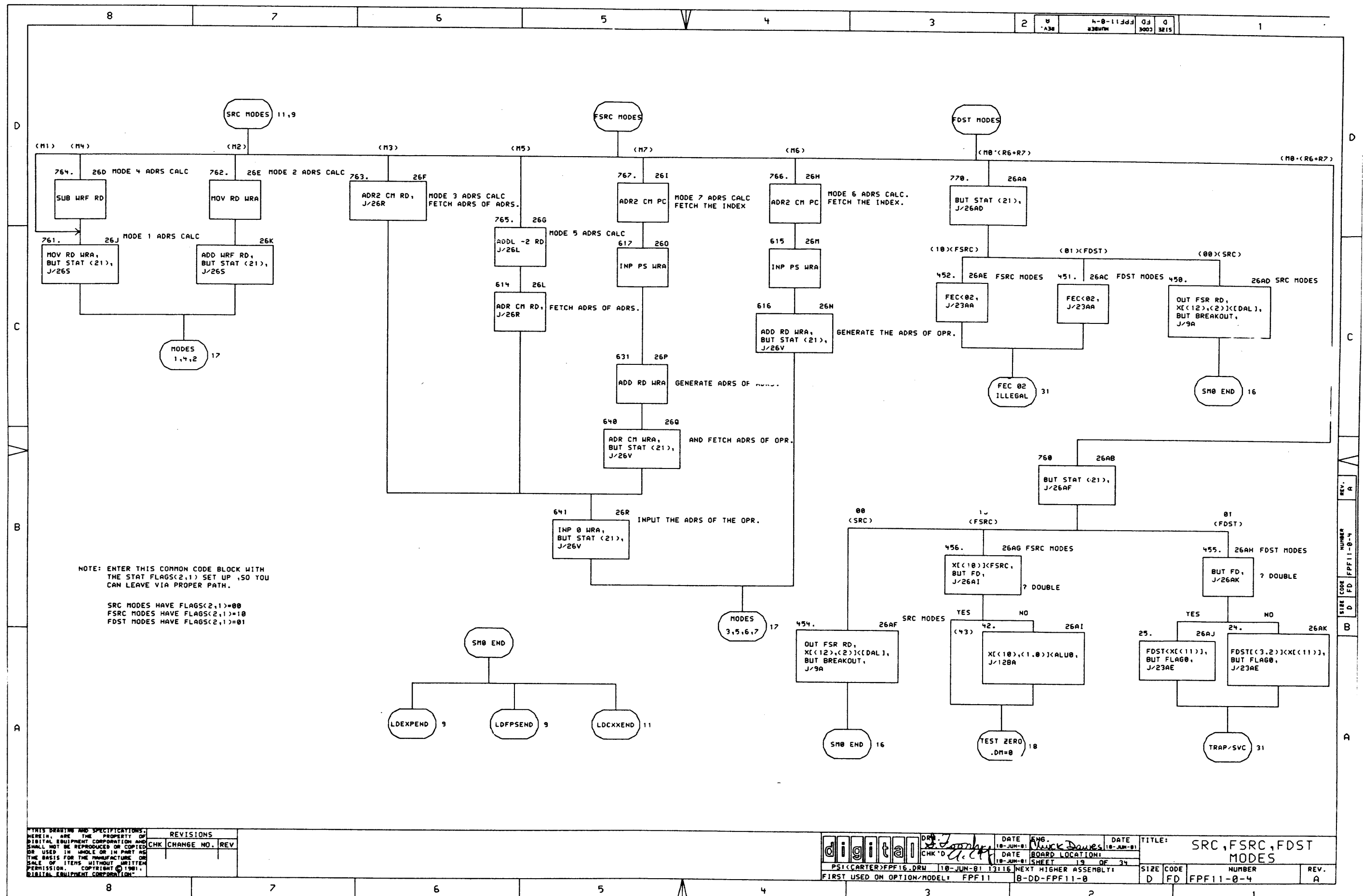
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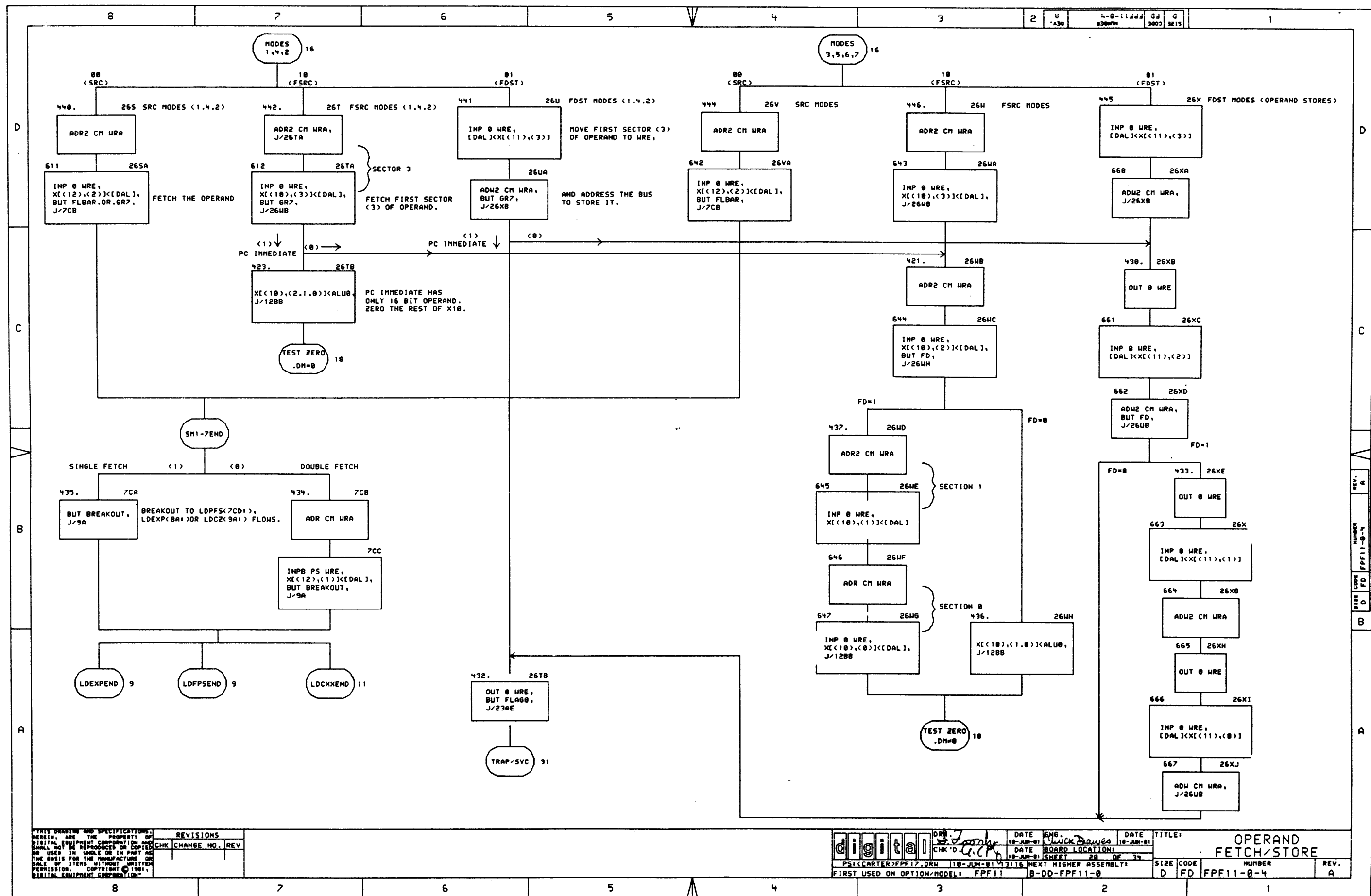
digital	DR. <i>Looney</i>	DATE 10-JUN-81	ENG. <i>Wick James</i>	DATE 10-JUN-81
	CHK'D <i>ACK</i>	DATE 10-JUN-81	BOARD LOCATION	
	PS: <CARTER> FPF14.DRW	10-JUN-81 1315	SHEET 17 OF 24	
FIRST USED ON OPTION/MODEL: FPF11		NEXT HIGHER ASSEMBLY: B-DD-FPF11-0		

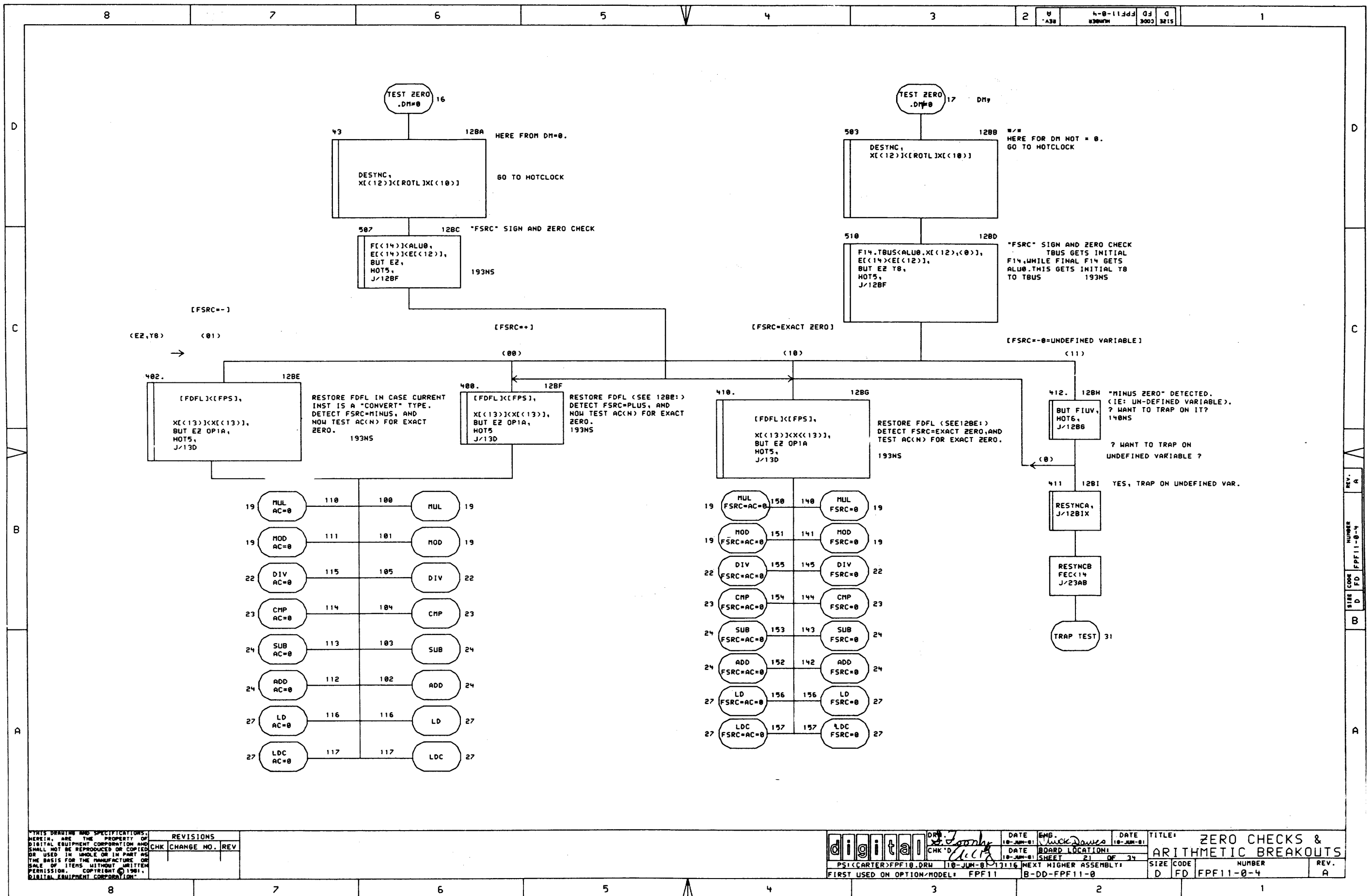
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SIZE	CODE	NUMBER	REV.
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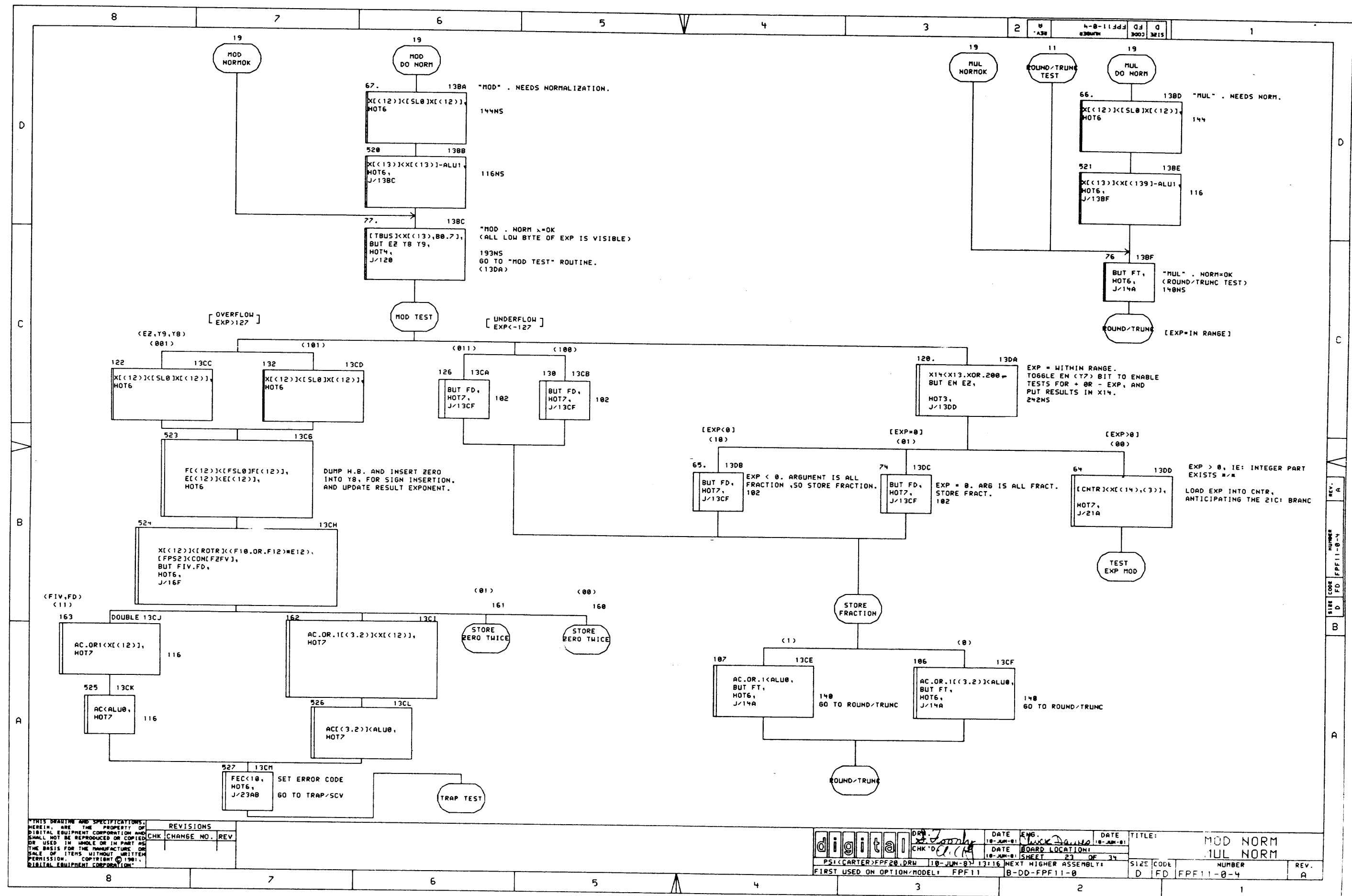
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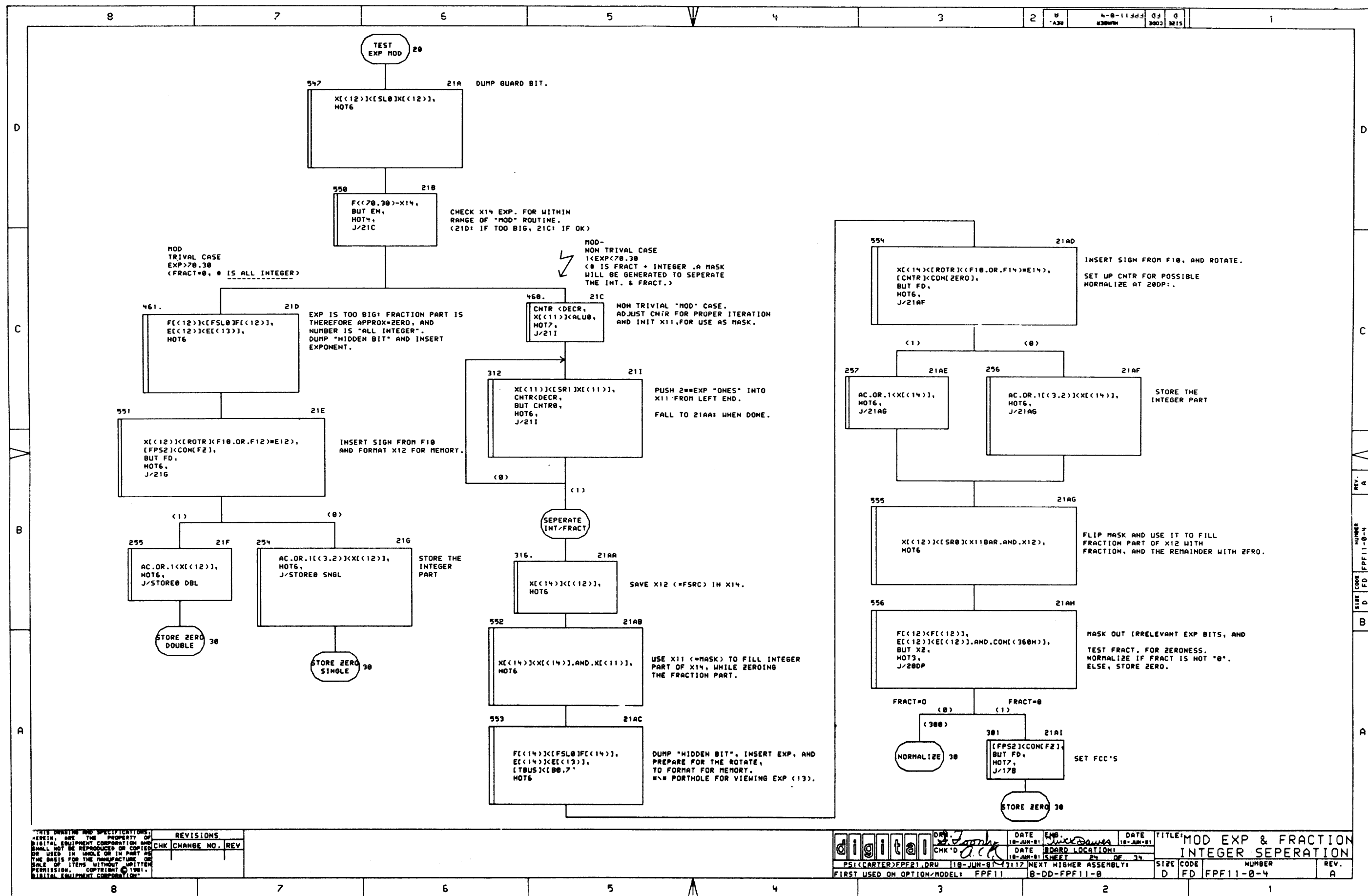


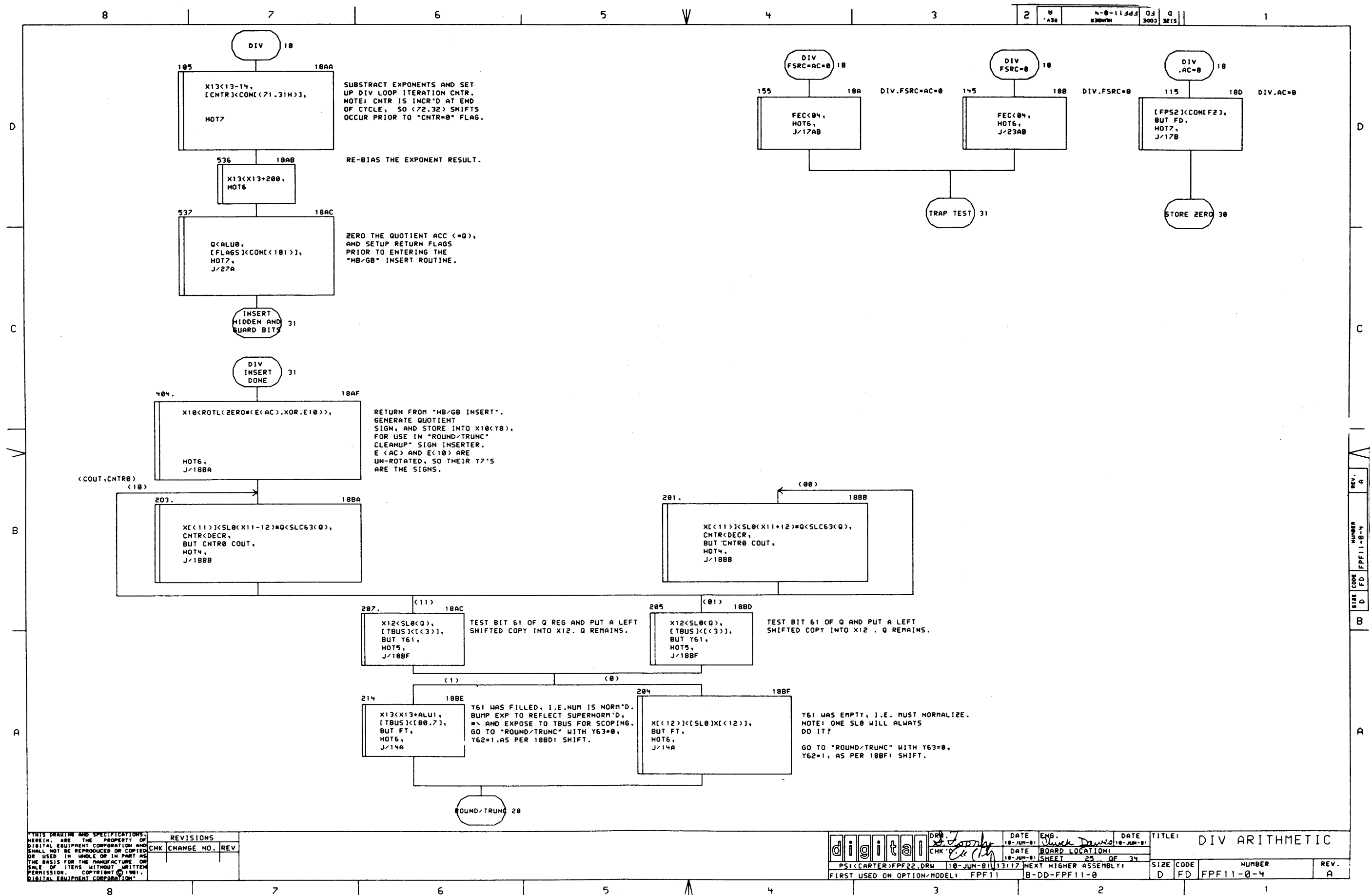


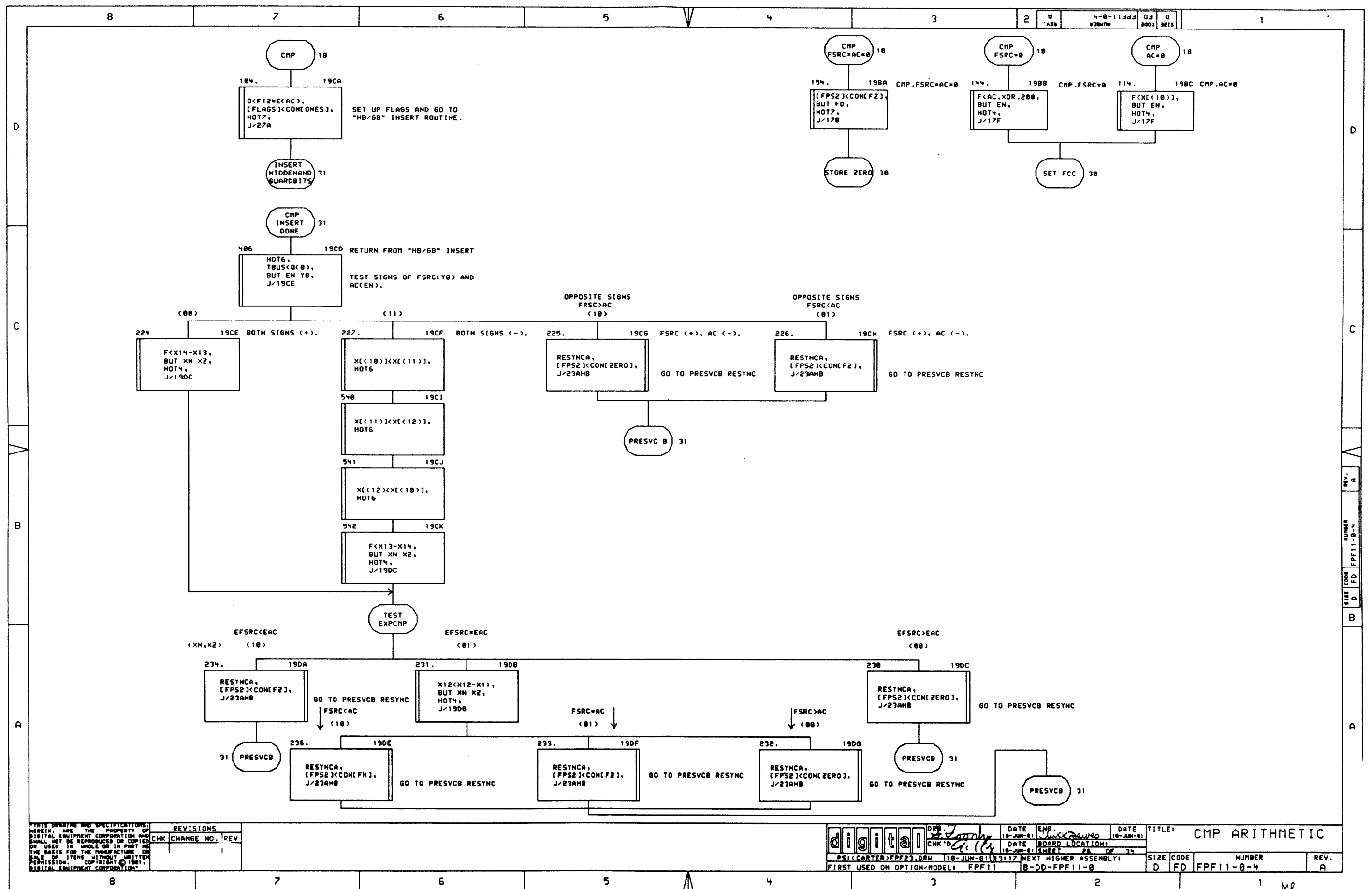


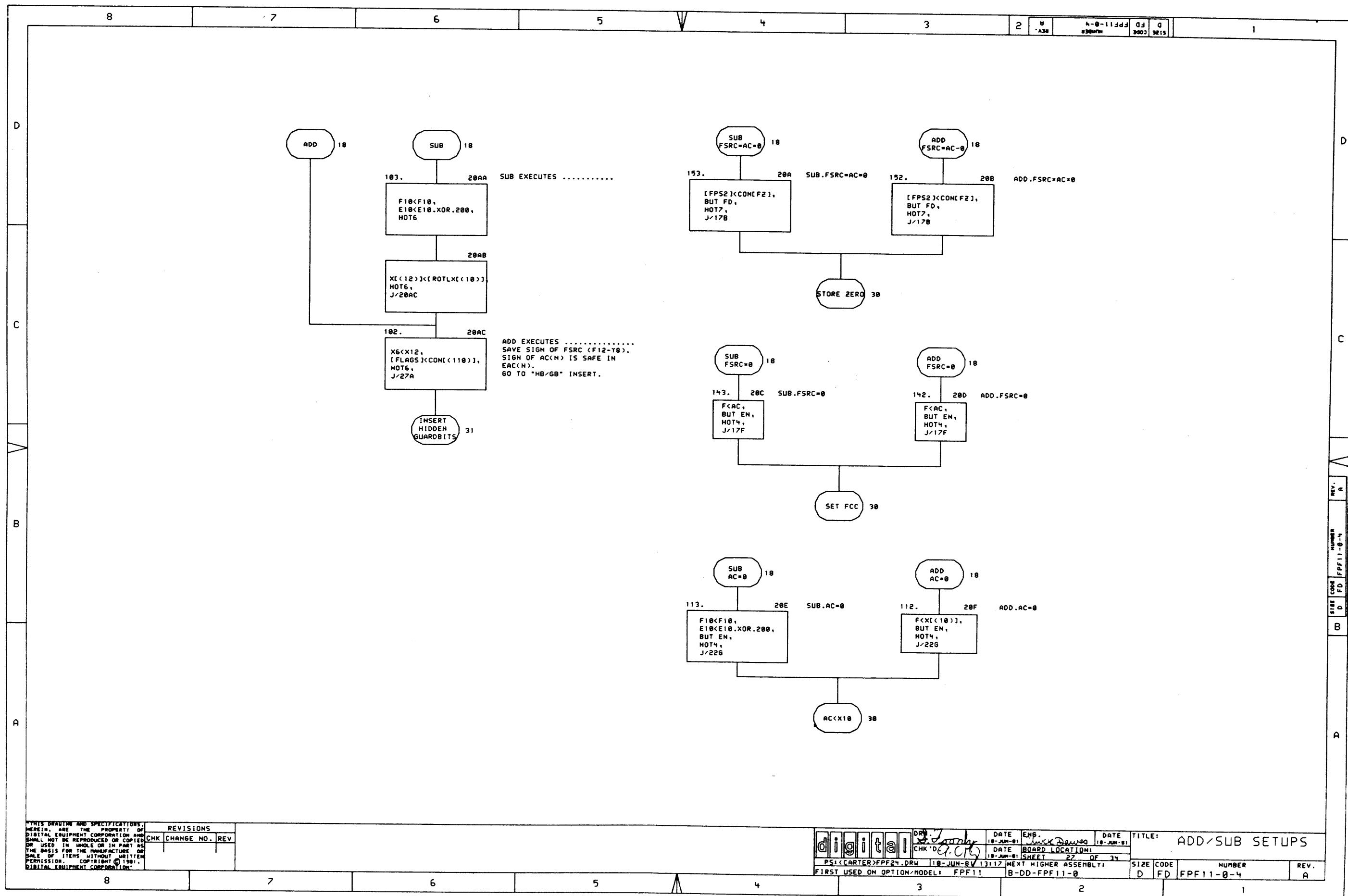


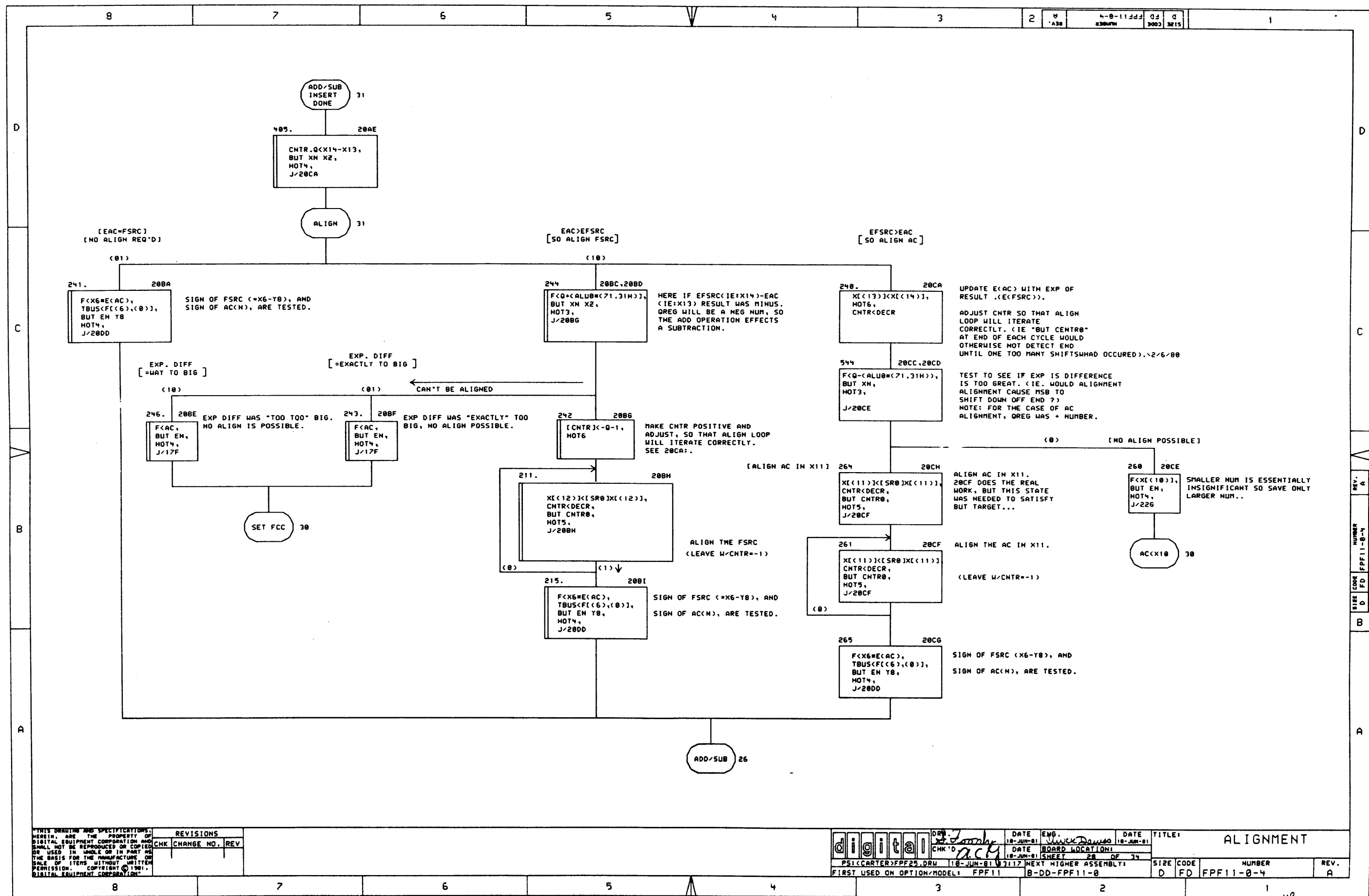


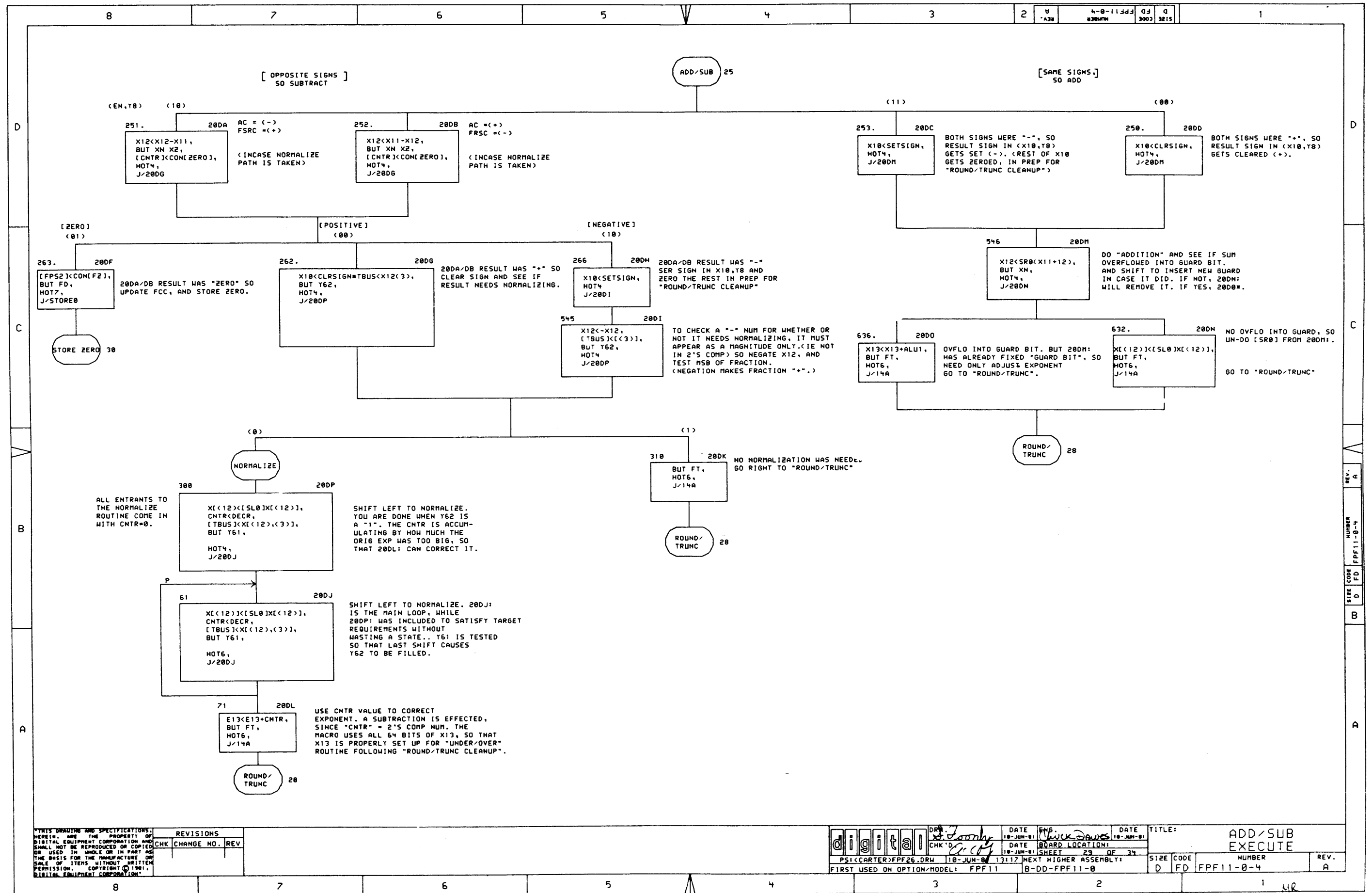


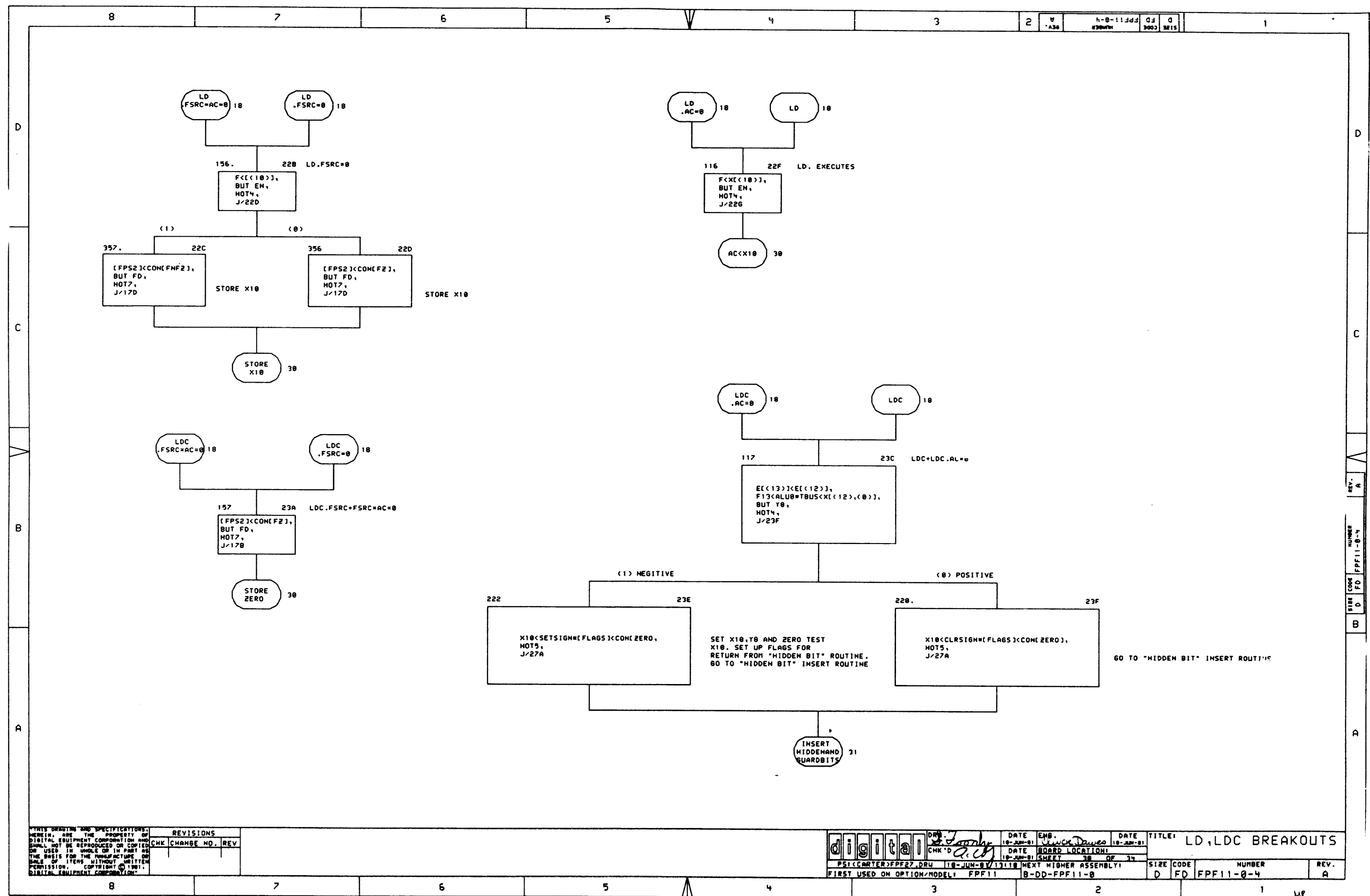


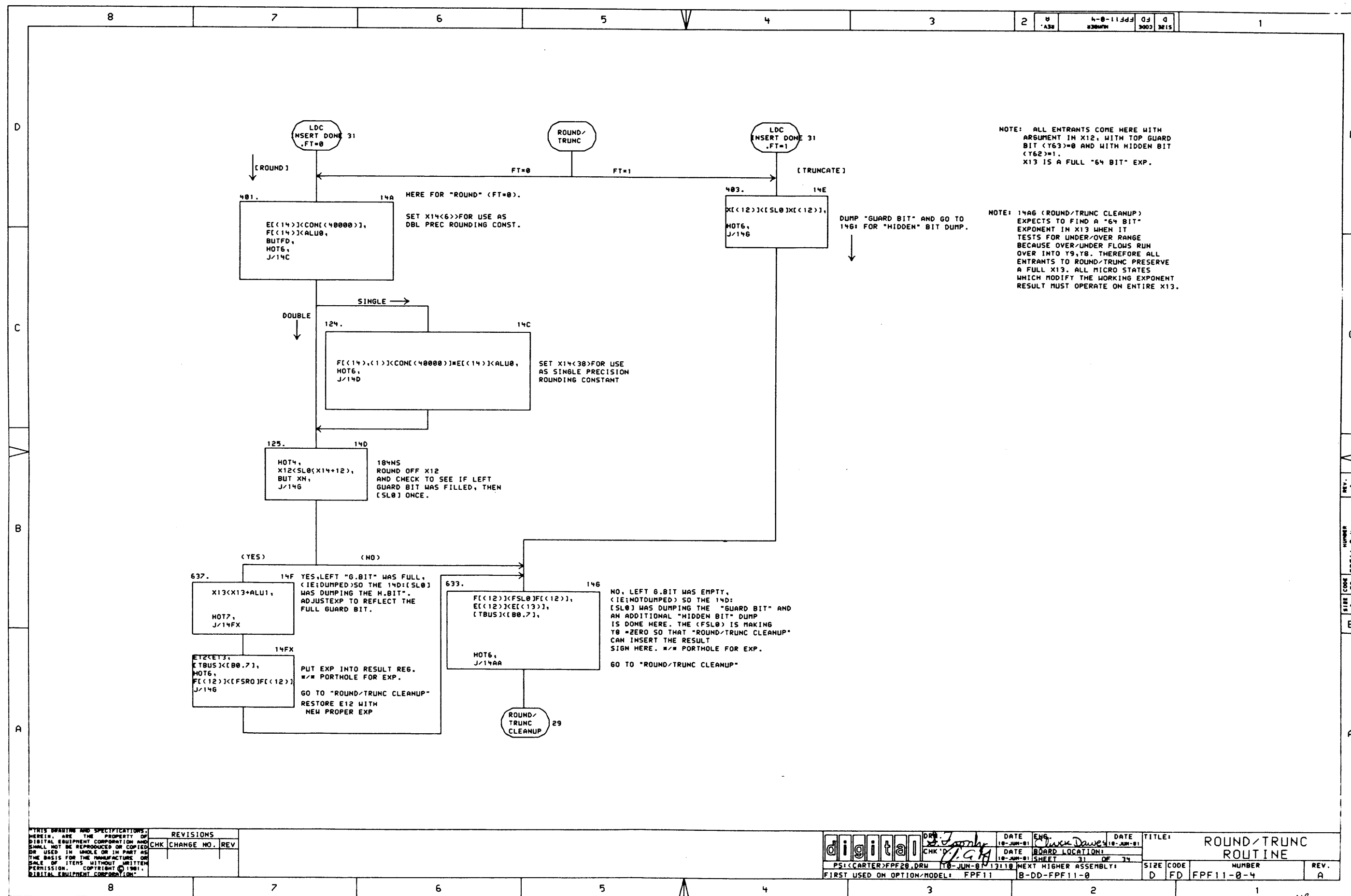


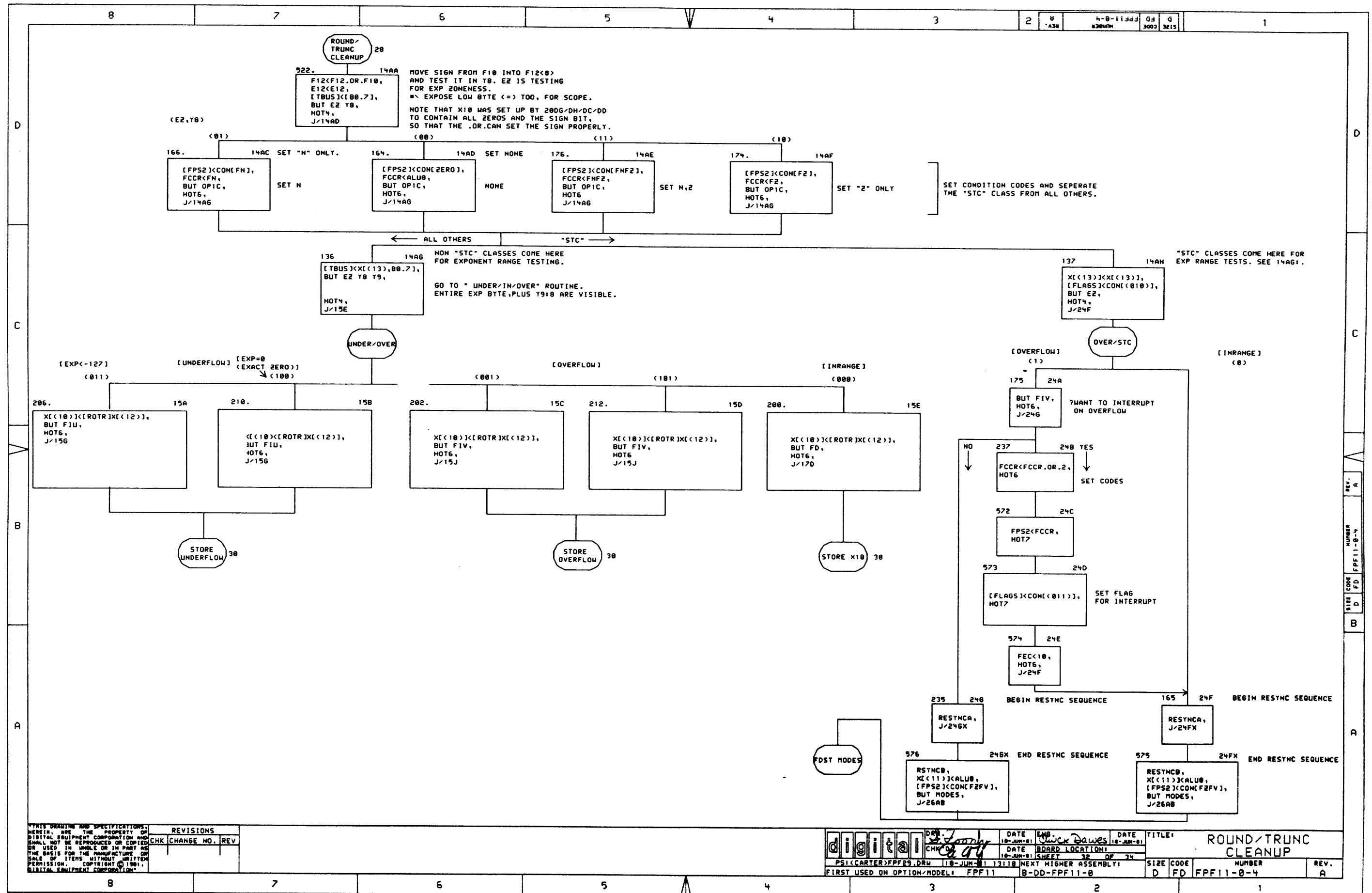


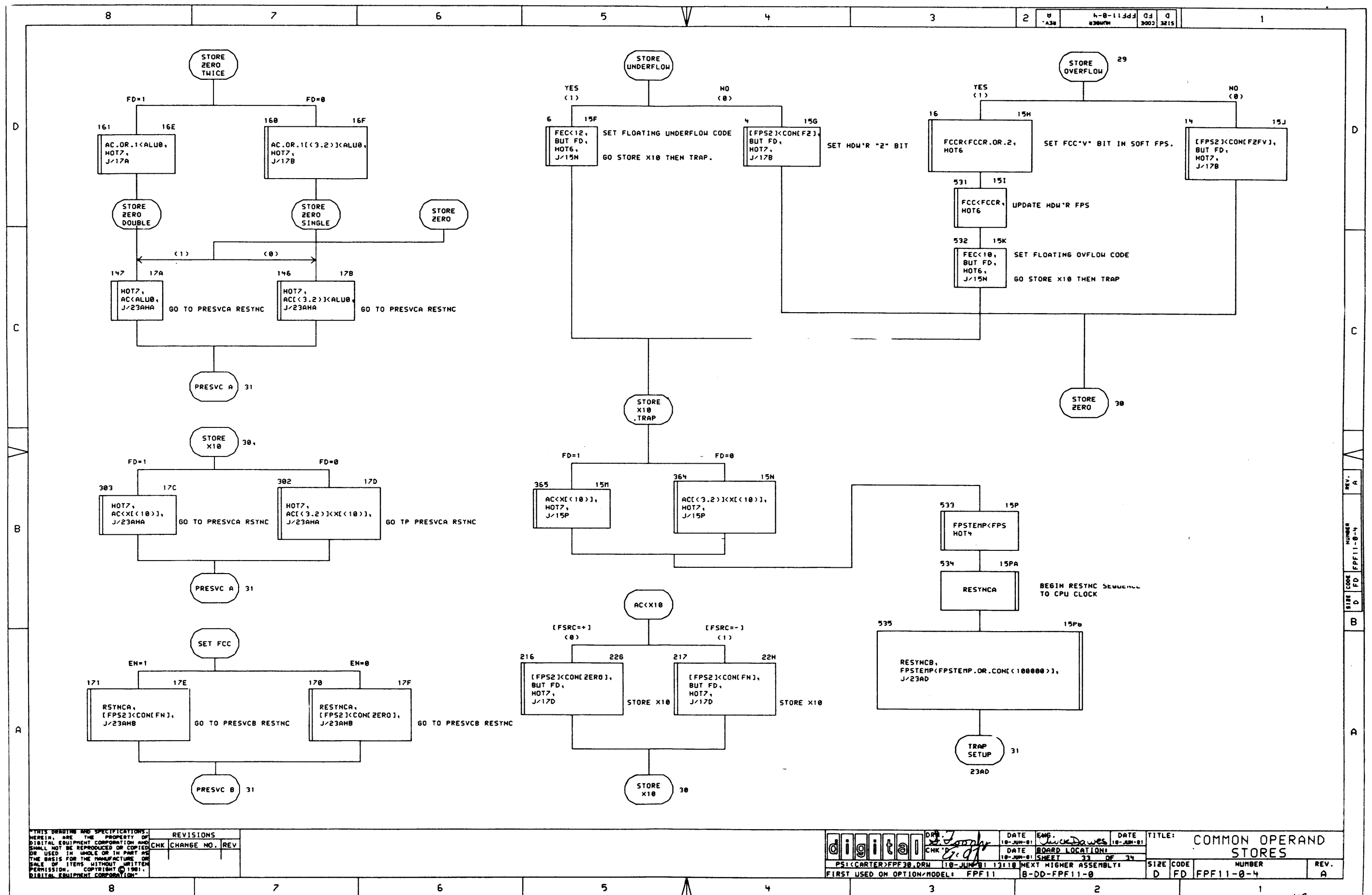


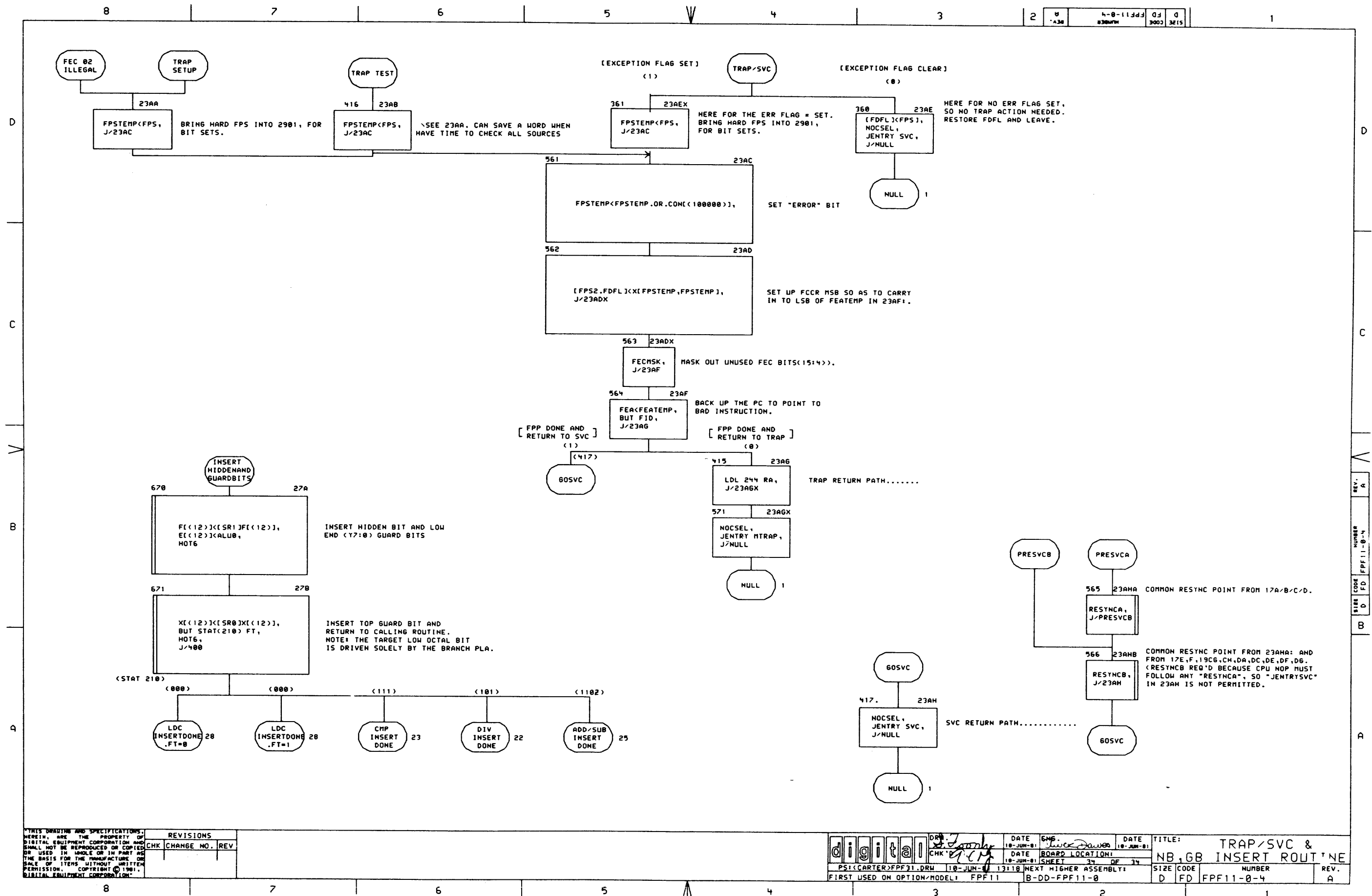












8

A 0-0-8818W 7

6

5

4

3

2

1

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NOTES CONT

6. PIN "A OR 1" ON J1 IS CUT OUT TO KEY THE CONNECTOR.

60 (QTY 8)

COMPONENT SIDE VIEW

59

SEE NOTE *6

SEE NOTE *2

(SEE NOTE *4) 64
(SEE NOTE *1) 58

- NOTES: 1. ITEM *58 COMES IN PAIRS & MIGHT HAVE TO BE CUT TO GO ON EITHER SIDE OF "W" JUMPERS.
2. W10 IS A SPARE JUMPER, BUT IS INSERTED.
3. SPARE LOCATIONS ARE: E12
4. USE ITEM *64 ON W1, W2, W4, W5, W6, W9, W10.
5. W3, W7, W8, W11, W12 ARE USED FOR UBUS OPERATION & MODULE IS NOT BUILT WITH THEM.

STEP 1 → Y AXIS 0 STEP 2 TIMES
REPEAT → X AXIS 0 STEP 2 TIMES

CHG	NO	REV

ETCH REV.	C
P.C. DESIGN DATA REV	A

SIGNATURES	DATE	TITLE	SIZE	CODE	NUMBER	REV
DAN. F. Wilson	11/5/80	digital				
CHK'D. J. G. Gentry	11/5/80					
MECH. ENG. J. C. Gentry	11/5/80					
PROJ. ENG. J. C. Gentry	11/5/80					
PROD. J. C. Gentry	11/5/80					
SCALE 2/1						
SHT. 1 OF 1						
NEXT HIGHER ASSY. B-DD-MR186-2						

8

7

6

5

4

3

2

MR

1 WO#190-27

AUTOMATED BY PRTLST.3L(37)

PARTS LIST

SHEET A1 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5014348-0-0	5014348-00	DRILL AND ETCH FOR MR188	1		
2	2		1004812-00	15 MFD 20V 10% S.TANT	6		C1-C5,C27
3	3		1012784-00	.047 MFD 50V +80-20% CER	20		C6-C15,C17-C26
4	4		1109977-00	1N 749A VZ= 4.3 5%	1		D1
5	5		1209941-02	HEADER 100 40PDS RT ANGLE	1		J1
6	6		1301322-00	180.0 .25 W 5.0 % CC	4		R1,R3,R7,R11
7	7		1300309-00	390.0 .25 W 5.0 % CC	1		R2
8	8		1300447-00	4.70 K .25 W 5.0 % CC	2		R4,R5
9	9		1300197-00	33.0 .25 W 5.0 % CC	1		R6
10	10		1300316-00	470.0 .25 W 5.0 % CC	2		R8,R9
11	11		1316254-01	R NETWORK 7-4.7K 2.0 % 8PIN	2		Z1,Z2
12	12		1316254-00	R NETWORK 7-470 2.0 % 8PIN	2		Z3,Z4
13	13		1811660-32	OSCILLATOR, XTAL 29.000 MHZ	1		Y1
14	14		1913245-02	2901A-1 MICROPROCESSOR 4-	16		E1-E4,E19-E22,E39-E42,E84-E87
15	15		1914214-00	LS374 FF-D OCTAL EDGE TRIG	2		E7,E25
16	16		1914570-00	SD 5000 ANALOG SWITCH-QUAD D	5		E8,E17,E18,E26,E38
17	17		1915193-00	LS244 DRIVER,LINE,OCTAL,T	7		E5,E6,E11,E23,E24,E29,E69
18	18		1910550-00	74S174 FF-D HEX	3		E9,E15,E27
19	19		1912097-00	SN 74S182 LOOK AND CARRY GEN	6		E13,E30-E32,E43,E88
20	20		1910010-00	DEC 2501 16 DIODE ARRAY,CORE	2		E14,E34
21	21		1910547-00	74S153 MUX 1 OF 4 (DUAL)	4		E33,E90-E92
22	22		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	4		E35,E36,E50,E51
23	23		1616653-00	DELAY= 50NS,10TAPS WITH TTLBU	1		E37
24	24		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1		E45
25	25		1910837-00	8093 BUFFER GATE-QUAD 2IN	3		E46,E93,E94
26	26		1910533-00	74S03 NAND GATE-QUAD 2IN,O	4		E47,E56,E58,E61
27	27		1910535-00	74S05 INVERTER GATE-HEX 1	2		E48,E55
28	28		1917246-00	AM 25S07 D-REG,HEX,PARALLEL	3		E54,E60,E74
29	29		1910534-00	74S04 INVERTER GATE-HEX 1I	1		E59
30	30		1910532-00	74S00 NAND GATE-QUAD 2IN	4		E62,E63,E82,E89

REVISION HISTORY			BASIC PART NO: M8188		DRN: R.W.CAUNTER		DATE: 25-OCT-79		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: R.W.CAUNTER	DATE: 25-SEP-80	TITLE		PARTS LIST				
---	INITIAL	A	SECTION VARIATION INDEX	CHK'D: R.W.CAUNTER	DATE: 25-SEP-80	M8188						
ACF	M8188-MROO1	B	[A] 00			PPF-11						
			[B]									
			[C]	DES.ENG: A.FILZ	DATE: 12-FEB-81							
			[D]									
			[E]									
			[F]	RESP.ENG: A.FILZ	DATE: 12-FEB-81							
			[H]									
			[J]									
			[K]									
			[L]	MFG.ENG: J.L.APONTE	DATE: 18-FEB-81	K PL M8188-0-DBP						
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #				
			[N]	D-UA-M8188-0-0	#B-DD-M8188-0	21950B.PLS		17				

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
31	31		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2		E64,E97
32	32		1917244-00	74S169 COUNTER,SYNCH UP/DOW	2		E45,E72
33	33		1914845-00	2918 FF-D QUAD TRI-STATE	4		E66-E68,E73
34	34		1917245-00	AM 25S08 D-REG,QUAD,PARALLEL	1		E75
35	35		1910957-00	74S175 FF-D QUAD COMMON CLO	2		E83,E95
36	36		1910542-00	74S64 A-O-I GATE 4-2-3-2	1		E96
37	37		1914082-00	74S163 COUNTER,SYNCH UP/DOW	1		E103
38	38		23041D2-00	D2-01	1		E49
39	39		23042D2-00	D2-01	1		E81
40	40		23003D2-00	D2-01	1		E80
41	41		23004D2-00	D2-01	1		E57
42	42		23005D2-00	D2-01	1		E78
43	43		23006D2-00	D2-01	1		E100
44	44		23007D2-00	D2-01	1		E99
45	45		23008D2-00	D2-01	1		E98
46	46		23009D2-00	D2-01	1		E102
47	47		23010D2-00	D2-01	1		E44
48	48		23011D2-00	D2-01	1		E77
49	49		23012D2-00	D2-01	1		E101
50	50		23013D2-00	D2-01	1		E76
51	51		23049C6-00	C6-02	1		E53
52	52		23048C6-00	C6-02	1		E52
53	53		23047C6-00	C6-01	1		E16
54	54		1000024-00	470.0 MHF 100V 5%200PPM MICA	1		C16
55	55		1100114-00	D 664 QS\75PCB PIV= 25V SP	1		D2
56	56		1302091-00	330.0 K .25 W 5.0 % CC	1		R12
57	57		1300229-00	100.0 .25 W 5.0 % CC	1		R10
58	58	SEE NOTE #1 ON UA	1215901-01	HEADER 2PIN STRAIGHT	12		
59	59		1213113-01	HANDLE,MODULE,	1		
60	60		9000024-01	EYELET,ROLL FLANGE .1210DX .192	8		
61	61		1609751-00	TRANSF 25UH PREF ELEC	1		T1
62	62		1910539-00	74S20 NAND GATE-DUAL 4INPU	1		E79
63	63		1300365-00	1.0 K .25 W 5.0 % CC	1		R14
64	64		1215899-01	CLIP,JUMPER,.400CENTERS	7		W1,W2,W4,W5,W6,.49,.+10
65	65		23059D1-00	D1-02	1		E28
66	66		23058D1-00	D1-02	1		E10
67	67		23056B1-00	B1-01	1		E70
68	68		23057B1-00	B1-01	1		E71
69	69		1215006-04	SKT,IC 20PIN DIP TIN PLATE	2		XE70,XE71
70	70		1215006-05	SKT,IC 22PIN DIP TIN PLATE	13		XE44,XE49,XE57,XE76-XE78,XE80,
71	71		1215006-07	SKT,IC 28PIN DIP TIN PLATE	3	CONT	XE81,XE98-XE102
72	72		1215006-08	SKT,IC 40PIN DIP TIN PLATE	16		XE16,XE52,XE53
73	73		1215006-06	SKT,IC 24PIN DIP TIN PLATE	2	CONT	XE1-XE4,XE19-XE22,XE39-XE42,
							XF84-XE87
							XE10,XE28

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							M8188					
							EPF-11					
									K	PL	M8188-0-DBP	

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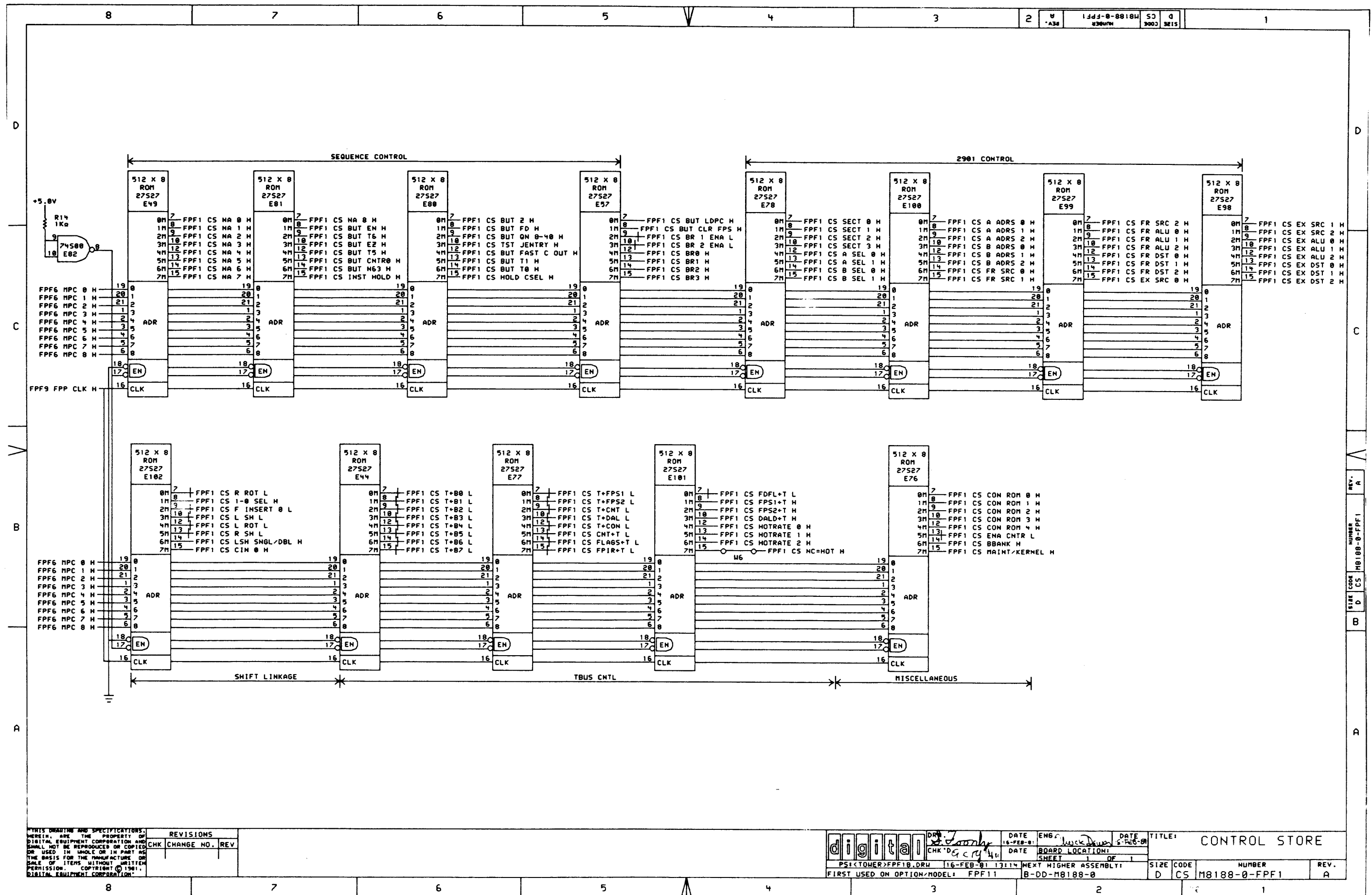
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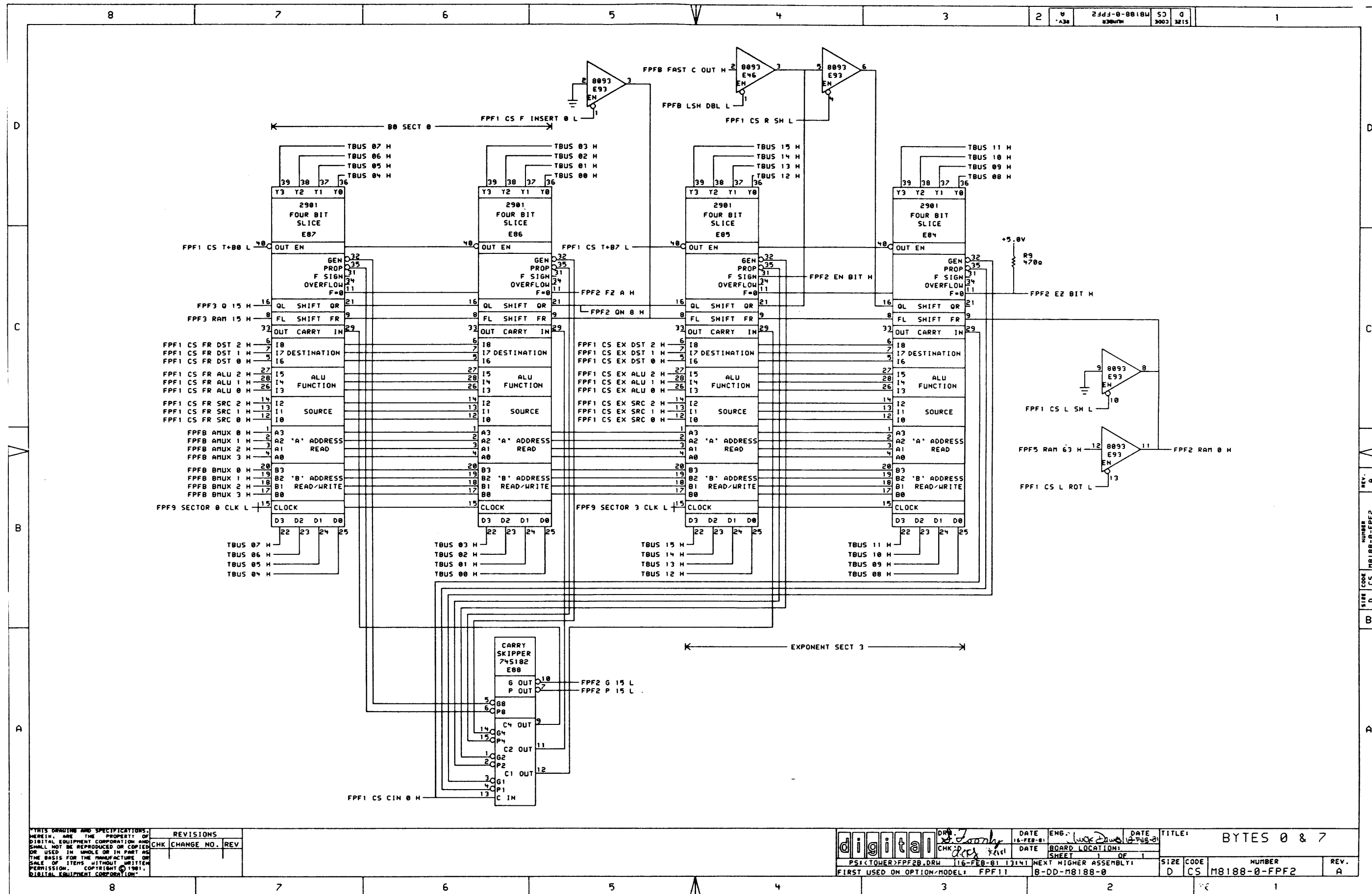
SHEET A3 OF A3

LINE ITEM DOCUMENT NUMBER PART NUMBER DESCRIPTION QTY PER VARIATION 00 REFERENCE DESIGNATOR

74 NOTE: 1. SPARE LOCATIONS ARE:E12.

DIGITAL						TITLE		SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
						M8188				K	PL	M8188-0-DBP	B
						FPF-11							





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REVISIONS		
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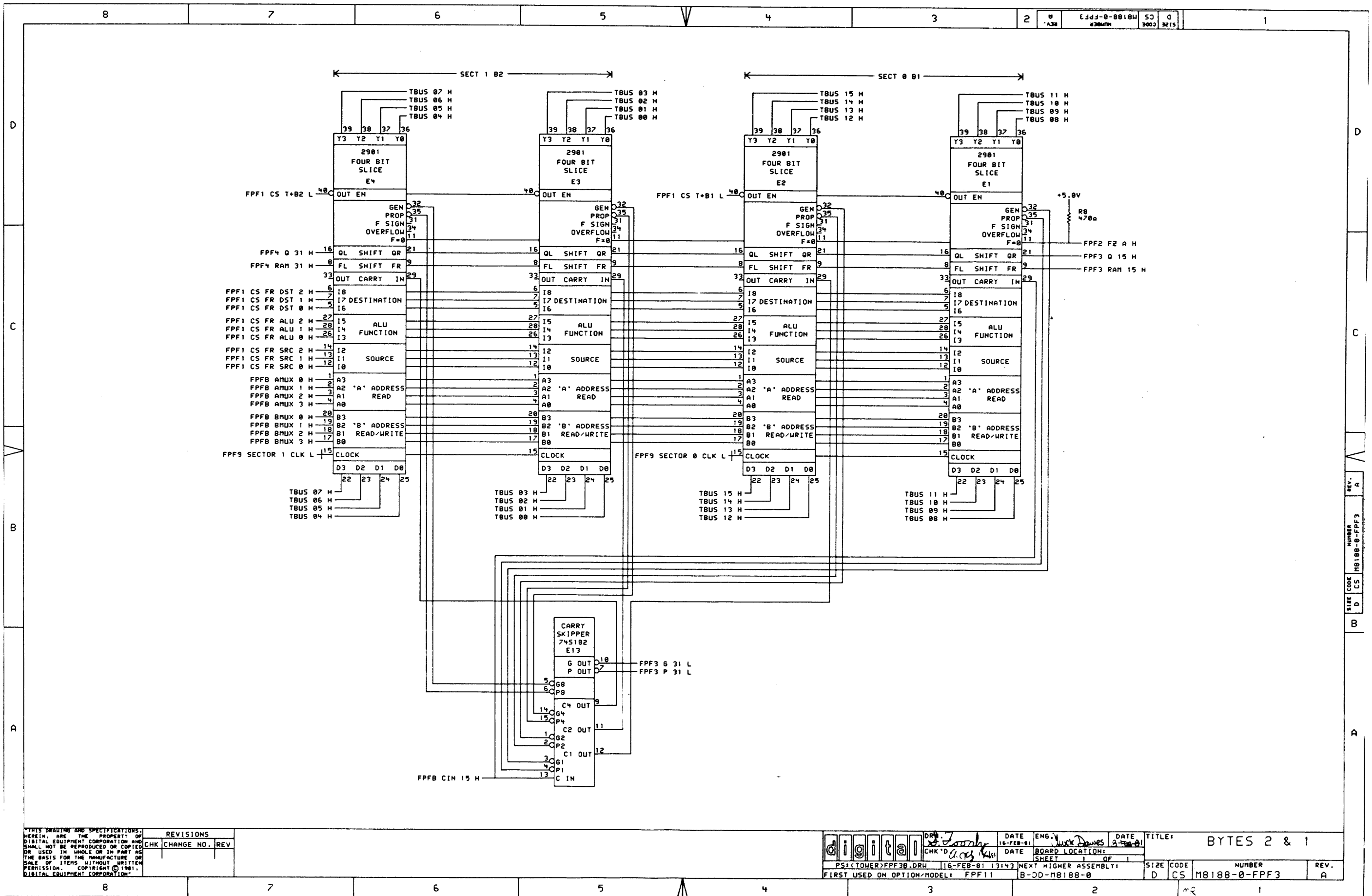
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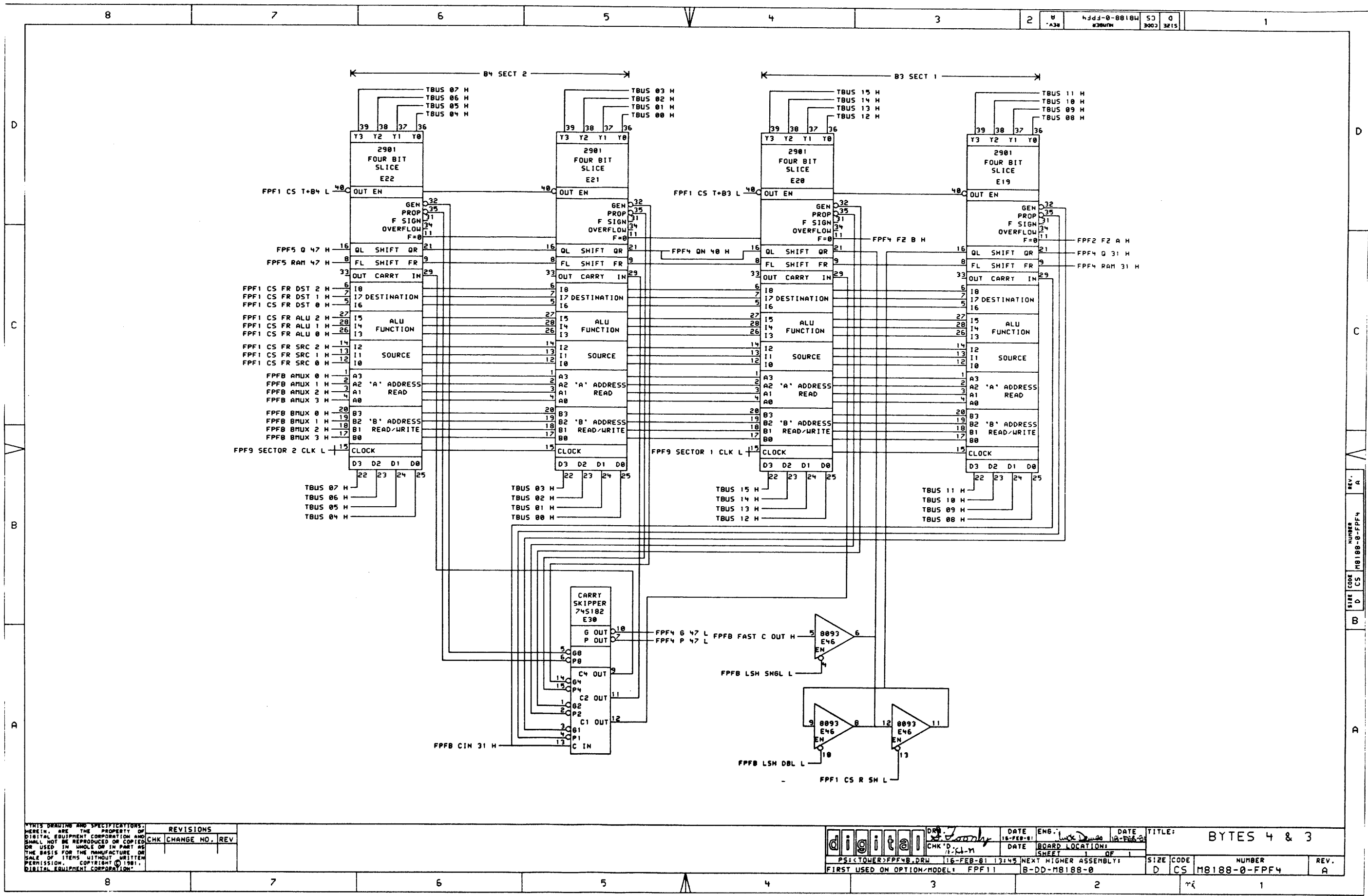
DATE 16-FEB-81
ENG. 1
DATE 16-FEB-81
CHK. 1
DATE 16-FEB-81

DATE 16-FEB-81
ENG. 1
DATE 16-FEB-81
CHK. 1
DATE 16-FEB-81

TITLE: BYTES 0 & 7
SHEET 1 OF 1
PS: TOWER/PPF28.DRW
FIRST USED ON OPTION/MODEL: FPF11

SIZE CODE D CS
NUMBER M8188-0-FPF2
REV. A

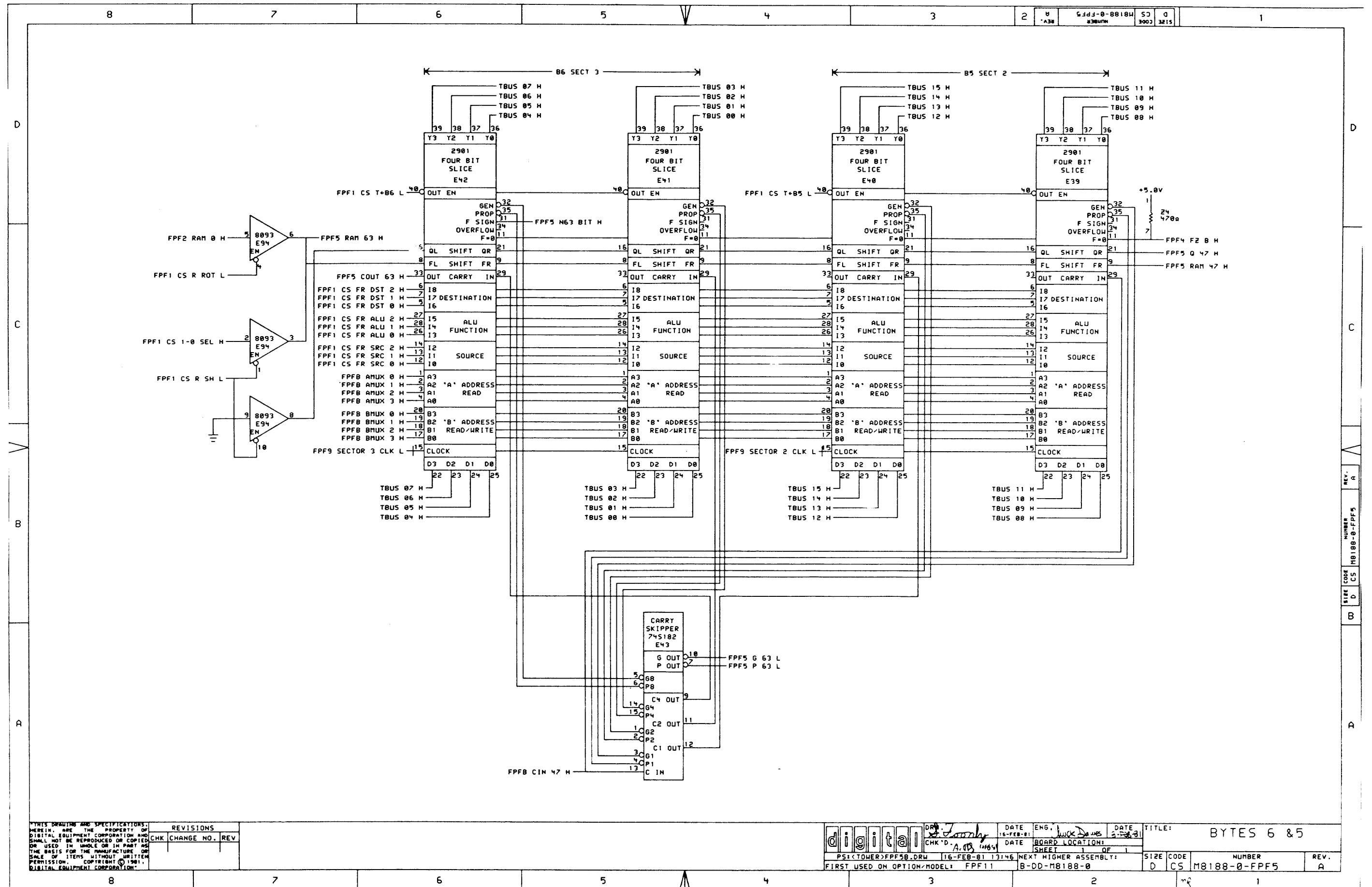




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REVISIONS	
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CHK'D: [Signature]		DATE: 16-FEB-81	BOARD LOCATION: [Blank]		
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FIRST USED ON OPTION/MODEL: PPF11		B-DD-MB188-0		SIZE: D	CODE: CS
				NUMBER: MB188-0-PPF4	REV.: A



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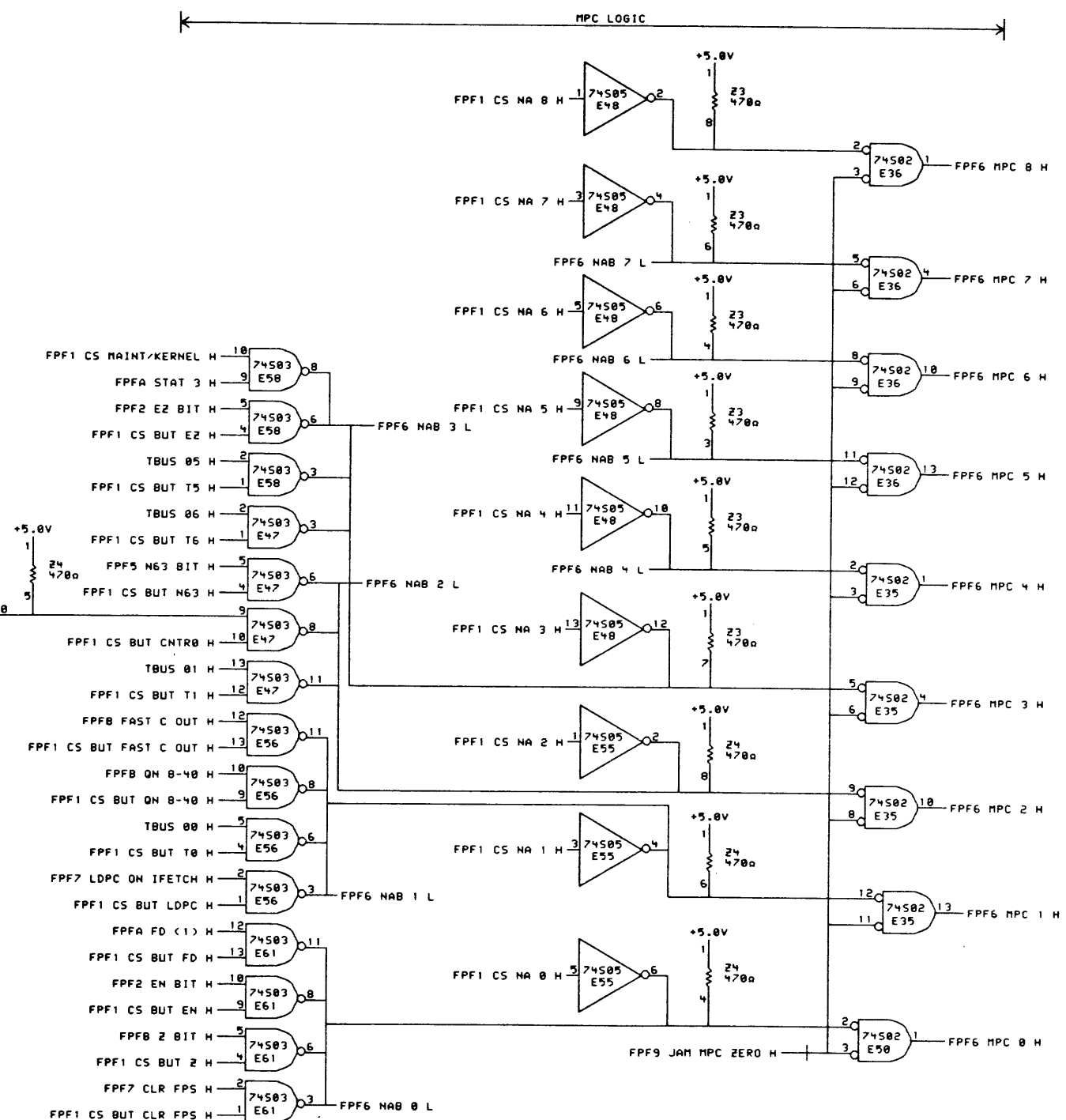
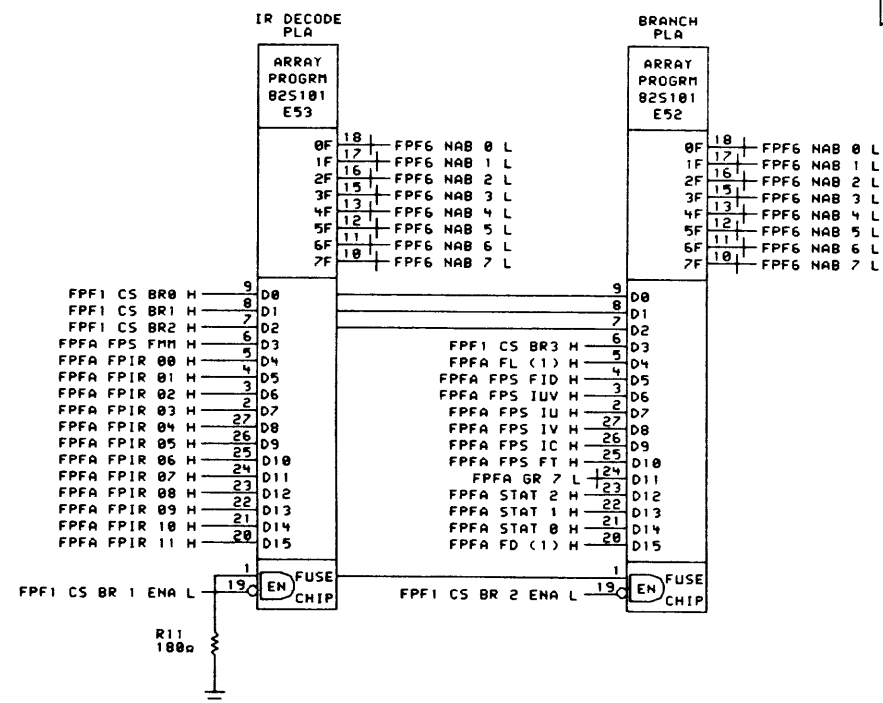
3

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93ddj-0-88184
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TBUS	RELEVANT BUT
T0	Y8
T1	Y9
T5	Y61
T6	Y62



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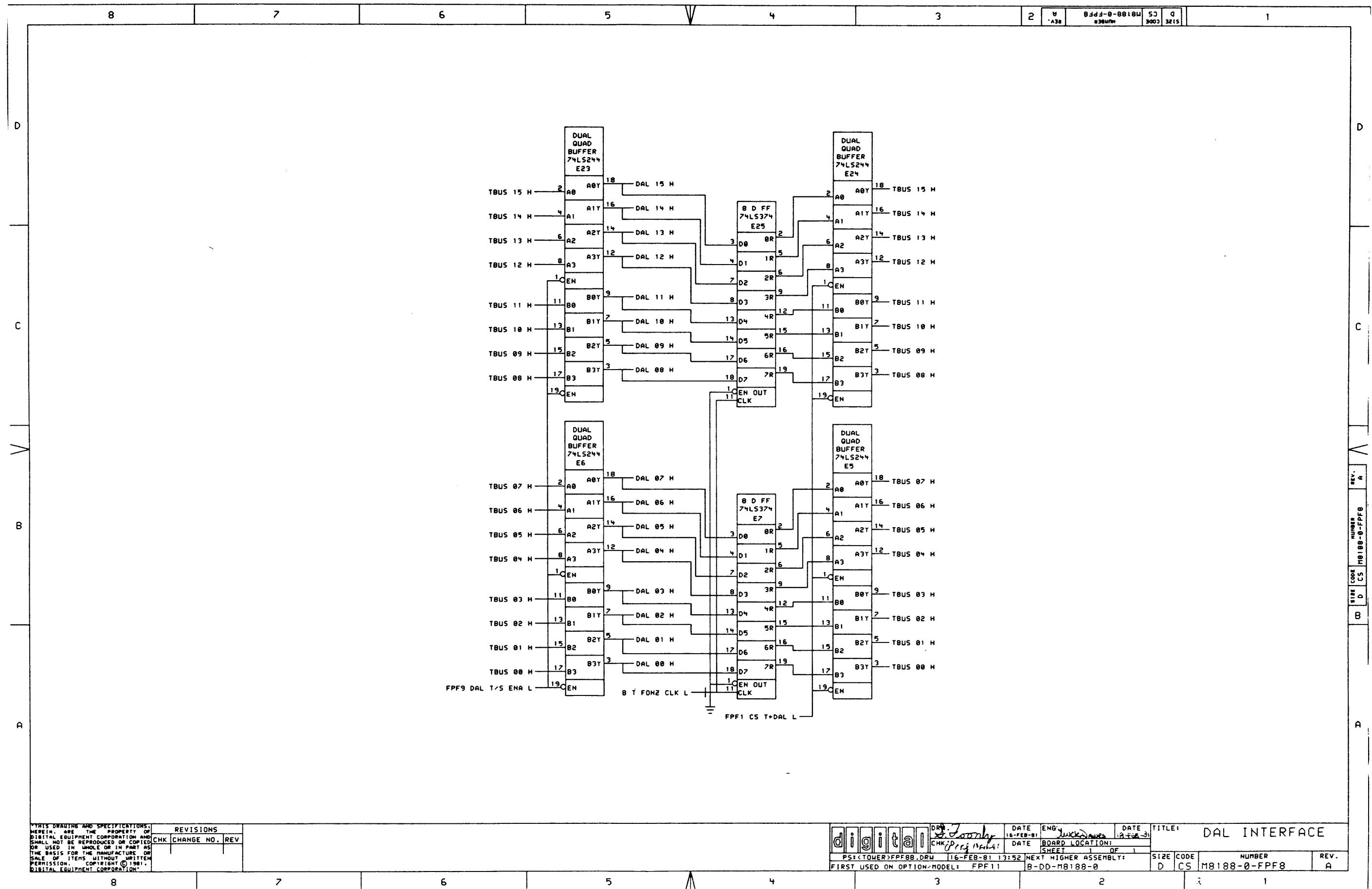
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DATE 16-FEB-81
ENG. [signature]
DATE 18-FEB-81
BOARD LOCATION: [signature]
SHEET 1 OF 1

TITLE: NADRS SEQUENCER
SIZE CODE D CS
NUMBER M8188-0-FPF6
REV. A

FIRST USED ON OPTION/MODEL: FP11
NEXT HIGHER ASSEMBLY: B-DD-M8188-0



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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	ENG	DATE	TITLE: DAL INTERFACE	
	16-FEB-81	J. J. J.	12-FEB-81	SIZE	CODE
CHK: P. J. J.	DATE	BOARD LOCATION:	SHEET	OF	1
PSI<TOWER>PPF88.DRW	16-FEB-81 13:52	NEXT HIGHER ASSEMBLY:	B-DD-M8188-0	NUMBER	REV.
FIRST USED ON OPTION/MODEL: PPF11				D CS	M8188-0-PPF8 A

