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[illegible]

Field Maintenance Print Set

FPI 1-F

Digital Equipment Corporation

MP00810

REV	REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	digital TITLE: FLOATING POINT OPTION										
	CHG. NO.	REV		E.H.	6/1/79											
				CHK'D	DATE											
				J. SULLIVAN	6/21/79											
	DATE				PROJ. ENG.	DATE	SIZE B CODE TC NUMBER FP11-F-3 REV. *									
				FIELD SERV.	DATE	DIST.										
SHEET 1 OF 1																

DRB 124

The

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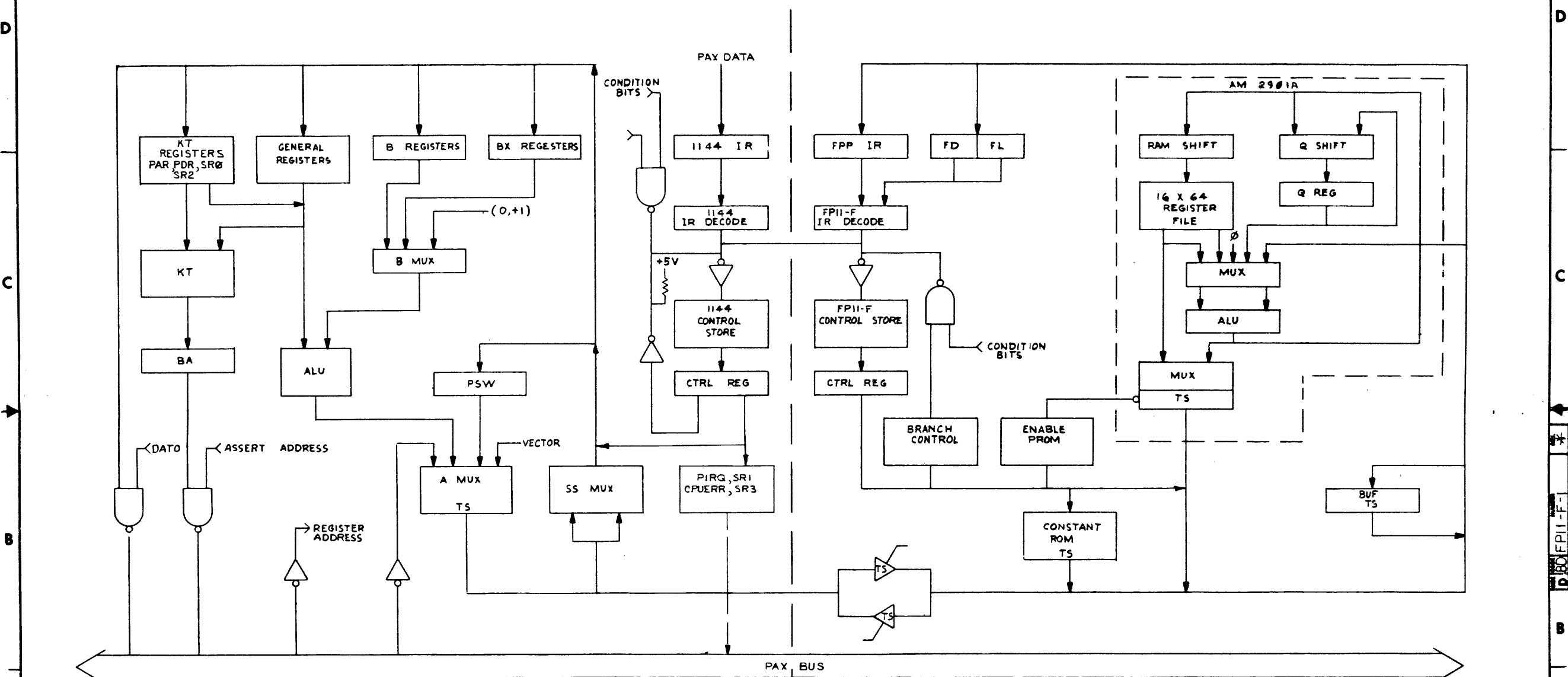
VAR	TITLE
-----	-------

FP11F	FLOATING POINT OPTION
-------	-----------------------

REVISIONS			USED ON OPTION/MODEL	DRN.	DATE	TITLE									
CHK	CHANGE NO.	REV.		E.H.	6/1/79	FLOATING POINT OPTION									
7/17	FP11-F-F-TW1	B		CHK'D.	DATE										
P. Torgerson 11/18/80				J. SULLIVAN	6/21/79										
M. RENDA				PROD.	DATE										
M. Renda 2-21-80				M. Renda	6-29-79	SIZE	CODE	NUMBER						REV	
				J. Comella	29-JUN-79	B	DD	FP11-F-0						B	
			SHEET 1 OF 2			DIST.									

[illegible]

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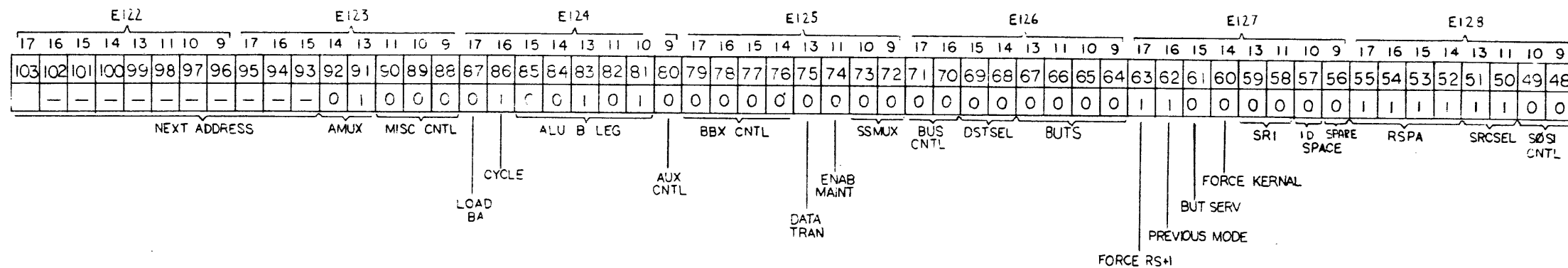
1144 PROCESSOR

FPII-F FLOATING POINT OPTION

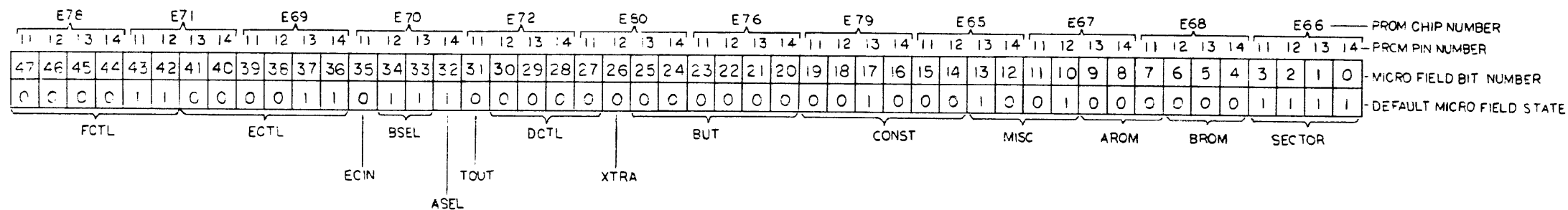
DRN	1144	FIRST USED ON	1144
CHK'D	1144	TITLE	1144 FLOATING POINT PROCESSOR FPII-F
ENG'D	1144	SIZE	D
PROJ. ENGR	1144	CODE	BD
PROD. ENGR	1144	NUMBER	FPII-F-1
NEXT HIGHER ASSY.		REV.	*
B-00-FPII-F-0			
SCALE			
SHEET	1	OF	1

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FPII-F CONTROL WORD WITHIN M7095



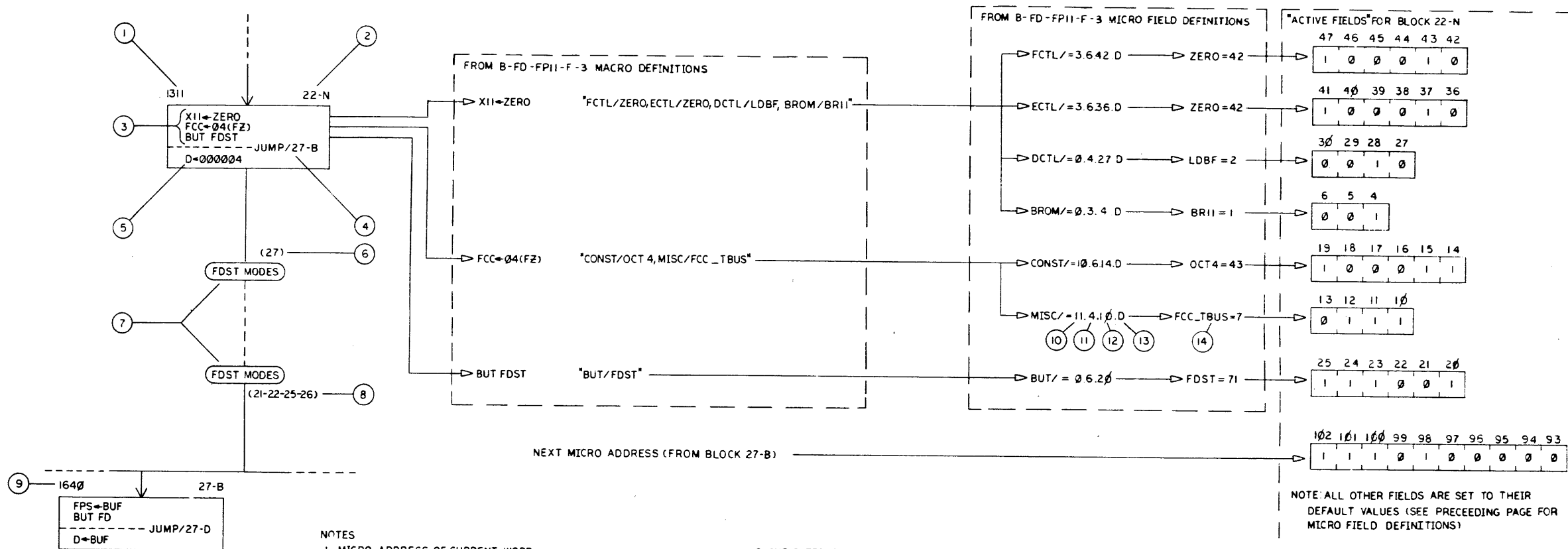
FPII-F CONTROL WORD WITHIN M7093



DRMS CHARTER	2/FEB/73	FIRST USED ON	FPII-F
CHK'D	h f	DATE	26-1-73
ENG.	h f	DATE	26-1-73
PROJ. ENG.	h f	DATE	26-1-73
PROD.	Smith	DATE	20-1-73
NEXT HIGHER ASSY.	B-00-FPII-F-0		
SCALE	NONE	SIZE	D
SHEET	1	OF	40
TITLE		NUMBER	REV.
FPII-F		FPII-F-2	B
FLOW DIAGRAMS			
DST.			

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KEY TO MICRO FLOW SYMBOLOGY



NOTES

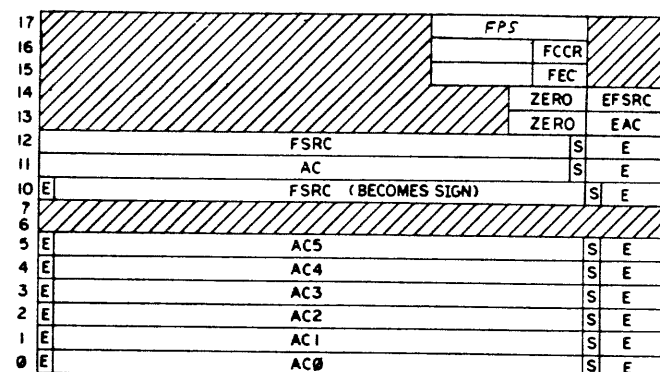
- 1 MICRO ADDRESS OF CURRENT WORD.
- 2 SYMBOLIC TAG OF CURRENT WORD CONSISTS OF PAGE NUMBER AND BLOCK LABEL (PAGE-BLOCK)
- 3 MICRO OPERATIONS WHICH TAKE PLACE DURING THIS STATE. THE FIELDS WHICH ARE INVOLVED IN CARRYING OUT THESE OPERATIONS CAN BE DETERMINED USING:
FP11-F MACRO DEFINITIONS
FP11-F MICRO FIELD DEFINITIONS
- 4 27-B IS THE SYMBOLIC TAG OF THE NEXT MICRO WORD (TARGET) ASSUMING NO BRANCHING (DESTINATION MODE 0) THIS CAN BE USED TO DETERMINE THE NEXT ADDRESS FIELD OF THE CURRENT MICRO WORD.
- 5 "D" STANDS FOR DISPLAY IN THE NUMBER WILL APPEAR ON THE MFM ASCII CONSOLE UPON USING THE "DISPLAY UCATA" COMMAND.
- 6 INDICATES PAGE IN FLOWS WHERE THIS ENTRY POINT CAN BE FOUND.
- 7 EXIT AND ENTRY LABELS ARE USED TO INDICATE LOGICAL FLOW FROM PAGE TO PAGE.
- 8 INDICATES PAGES IN FLOWS FROM WHICH ENTRY POINT IS CALLED.
- 9 THIS ADDRESS IS THE TARGET OF THE JUMP FIELD OF BLOCK 22-N
- 10 DEFAULT VALUE OF THIS FIELD
- 11 NUMBER OF BITS IN THIS FIELD
- 12 LOCATION OF RIGHT MOST BIT OF THIS FIELD WITHIN MICRO WORD.
- 13 INDICATES THAT THE DEFAULT IS TAKEN IF NOTHING ELSE IS SPECIFIED
- 14 OCTAL VALUE OF MICRO FIELD LITERAL

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FP11-F-FLOWS		DFD	FP11-F-2	B
SCALE	SHEET 2 OF 40	DIST.		

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FPII-F TYPICAL REGISTER USAGE



SECTOR3	SECTOR 2		SECTOR 1		SECTOR 0		SECTOR3
BYTE 6	BYTE 5	BYTE 4	BYTE 3	BYTE 2	BYTE 1	BYTE 0	BYTE 7
F - REG							E - REG
X - REG							

FPII-F TS BUS ASSIGNMENT

TS0		Y8
TS1		Y9
TS5	FT	Y61
TS6		Y62
TS8	FIC	
TS9	FIV	
TS10	FIU	
TS11	FIUV	
TS14	FID	

FPII-F MPC BUTOFF BITS

MPC	1144	FPX TS BUT	FPX CONDITIONS	FPX BUT OPI	FPX BUT OP2
0	BUT BOOT	—	—	OP10	OP20
1	ZBIT	TS0	TS14	OP11	OP21
2	C05	TS1	XOUT	OP12	OP22
3	NOSERV	TS8	Q8-Q40	OP13	OP23
4	BX00	TS9	XZBT	—	—
5	BX01	TS10	XNBT	—	—
6	NBIT	TS11	BUSRQ	—	—
7	COUT	TS5	EZBT	—	—
8		TS6	ENBT	—	—

FLOATING POINT STATUS REGISTER

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
FER	FID	X	X	FIUV	FIU	FIV	FIC	FD	FL	FT	X	FN	FZ	FV	FC

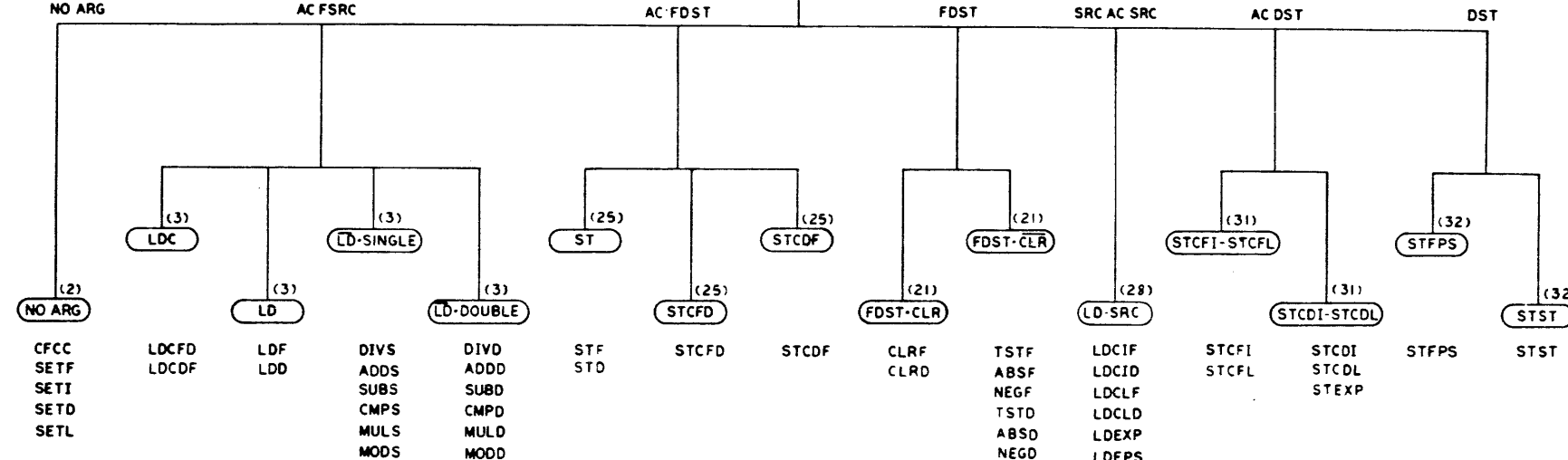
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-F-FLOWS		D FD	FPII-F-2	B
SCALE	SHEET	3 OF 40	DIST.	

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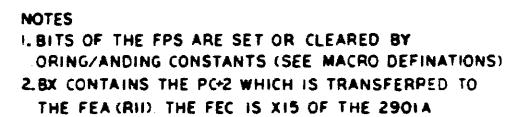
FP11-F
50 1-A
B ← (10.4.2)
X11 ← AC
OUT BREAKOUT
JMP 2-A
D ← 000010.000000.000002

PUT INDEX CONSTANT INTO B-REGISTER
LOAD X11 WITH ACCUMULATOR SPECIFIED BY IR6-7
BREAKOUT INSTRUCTION USING IR6-11 AND OPI PROM (E60)
DISPLAY INDEX CONSTANT AS FOLLOWS (DOUBLE-SINGLE-IMMEDIATE)

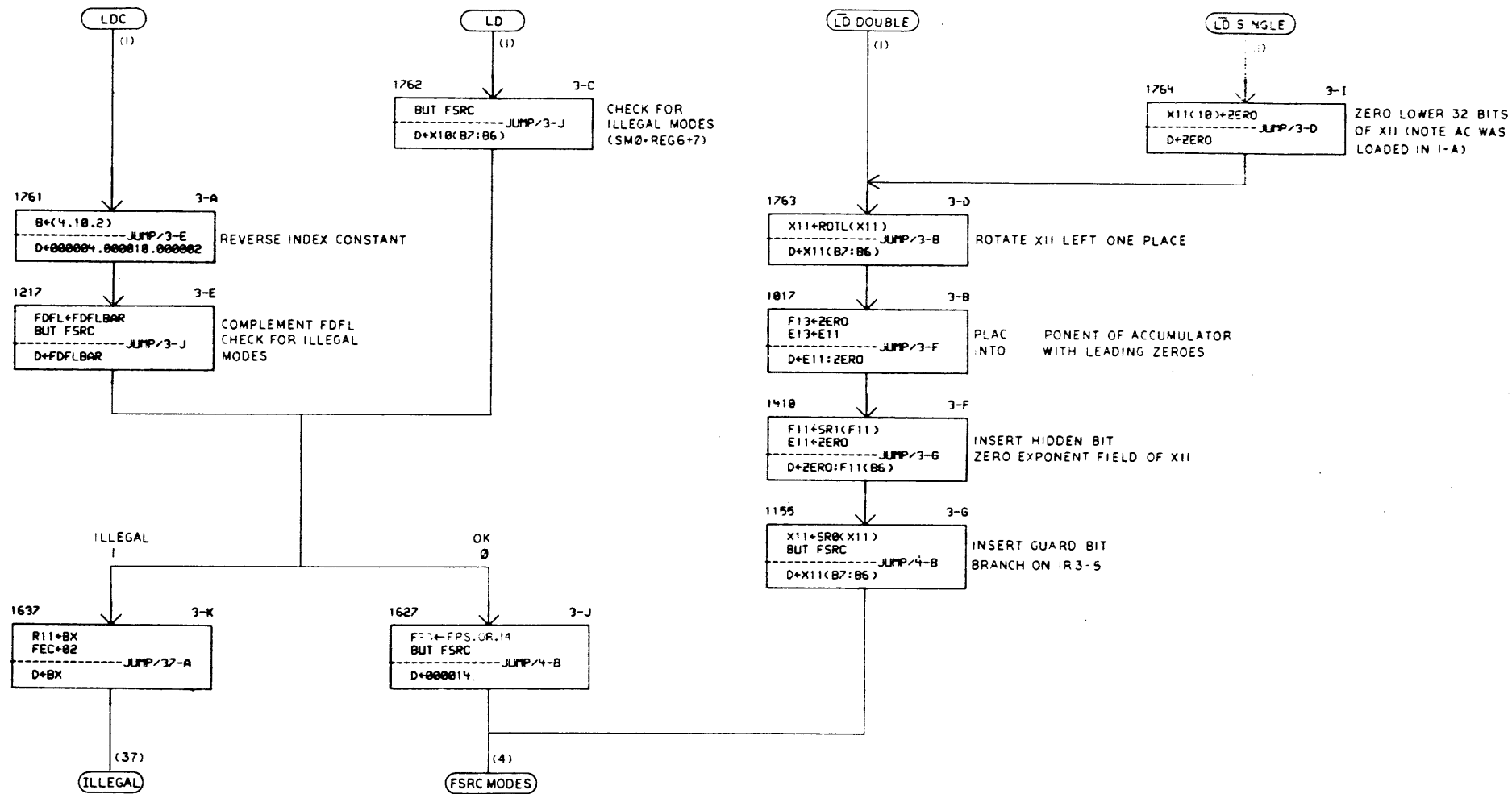


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE		NUMBER		REV.	
FP11-F-FLOWS (1)		D F D		FP11-F-2		B	
SCALE		SHEET 4 OF 40		DIST.			

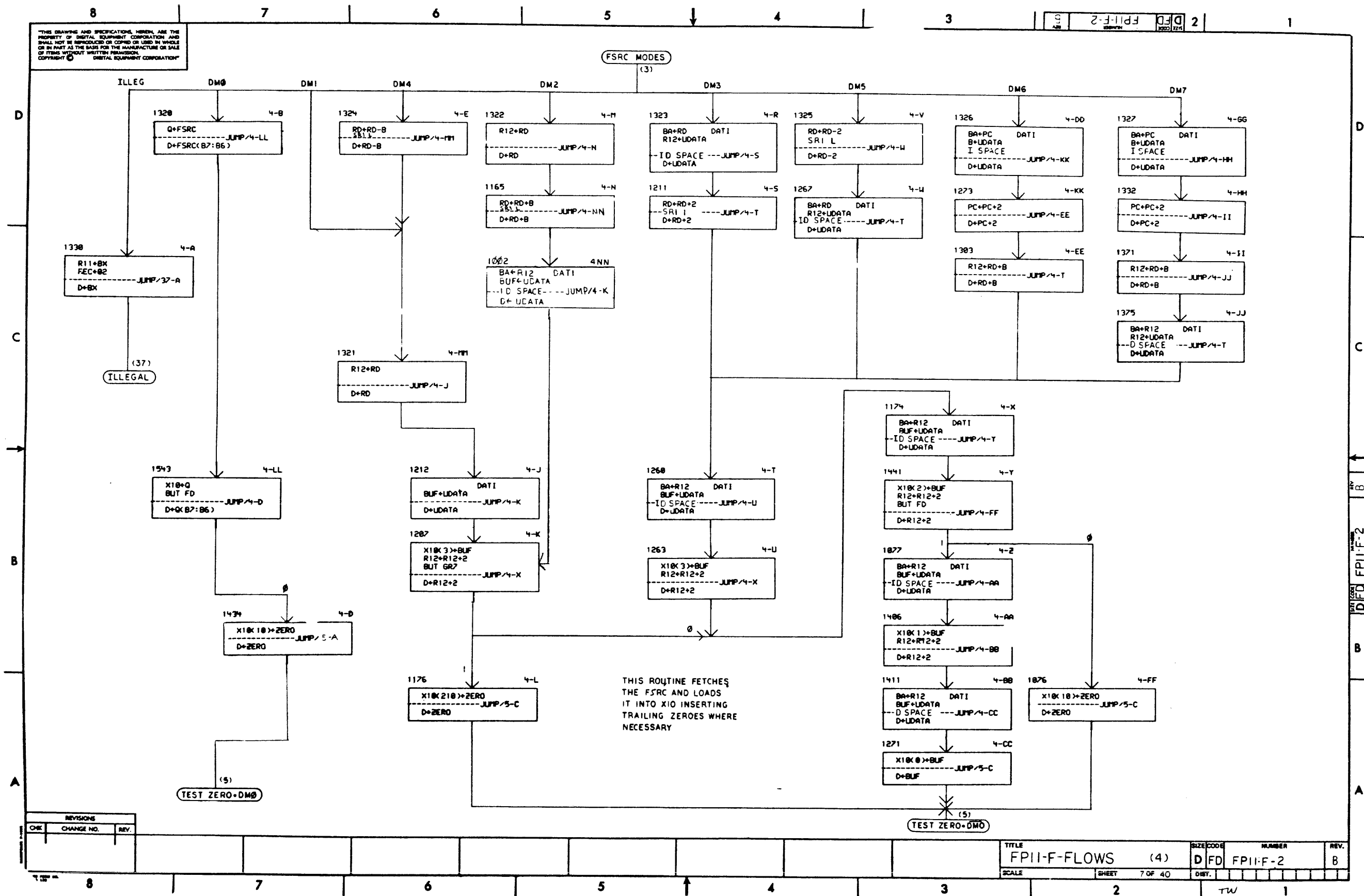


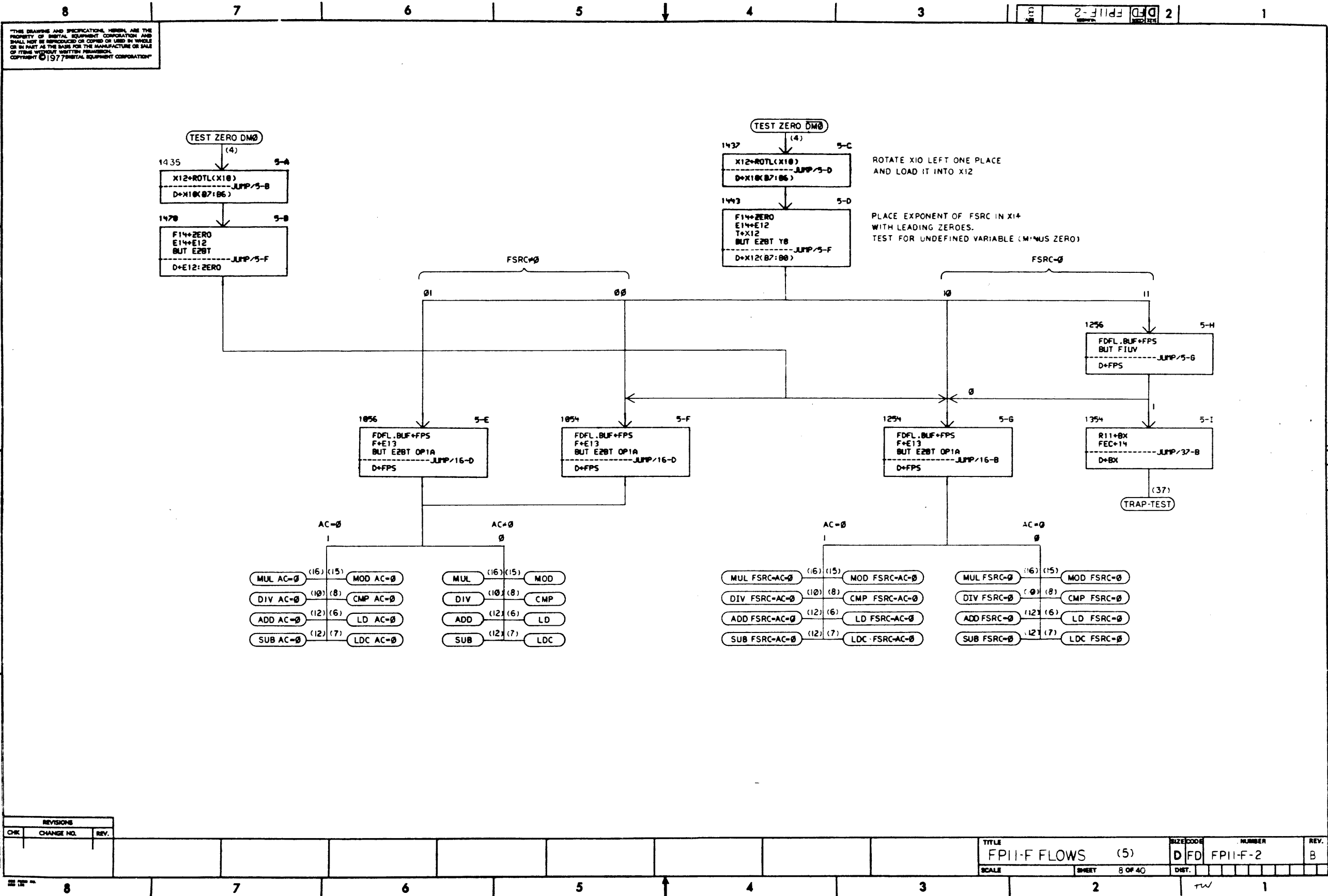
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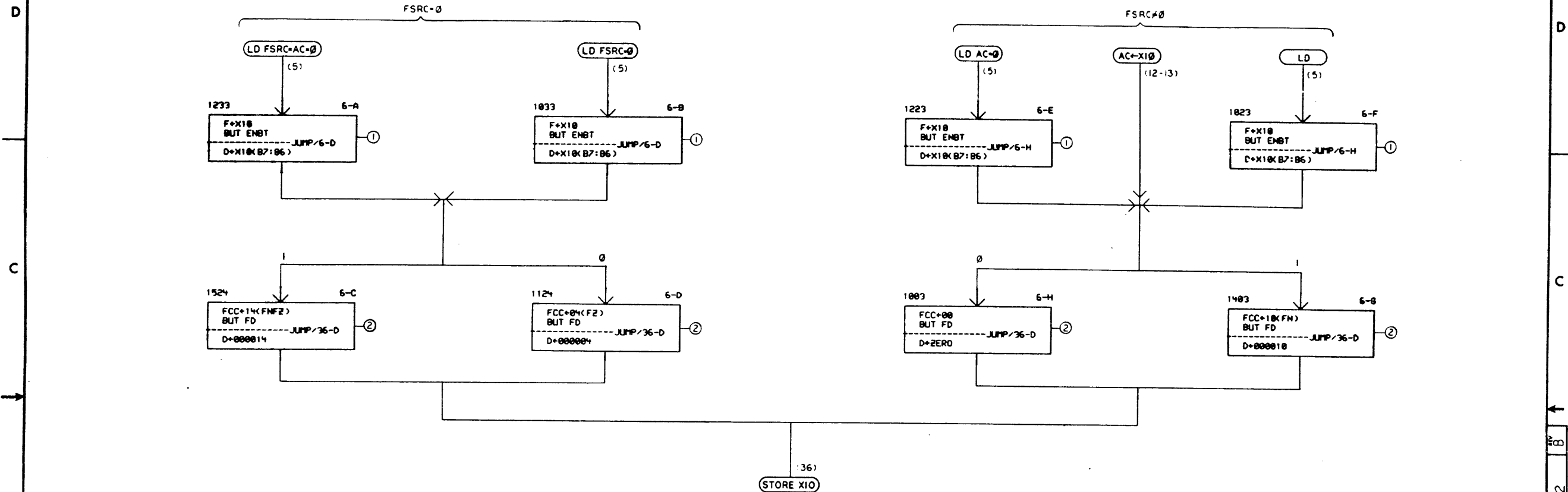
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE				SIZE CODE		NUMBER				REV.	
FPII-F-FLOWS (3)				D FD		FPII-F-2				3	
SCALE		SHEET 6 OF 40		DIST.							





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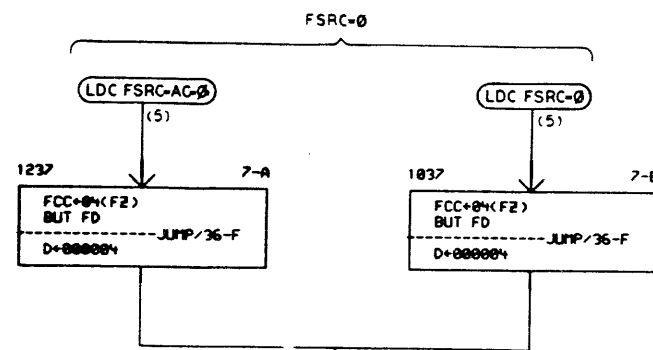
NOTES

1. TEST SIGN OF FSRC (X10:BIT 7)
2. SET FLOATING CONDITION CODES (FCC) USING THE APPROPRIATE CONSTANT. NOTE THAT THE FCC IS CONTAINED IN THE LOWER FOUR BITS OF THE BUFFER (BUF).

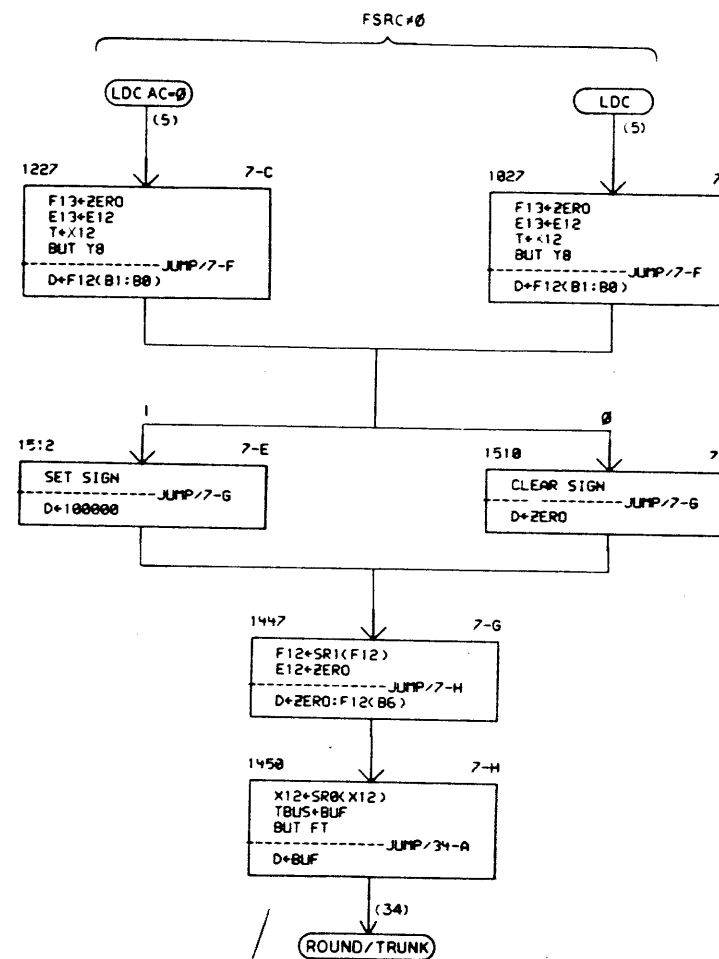
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-F FLOWS (6)		D FD	FPII-F-2	B
SCALE	SHEET	DIST.		
	9 OF 40			

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IN THIS CASE THE FSRC IS ZERO
SO NO ROUNDING IS NECESSARY



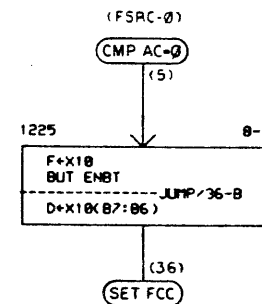
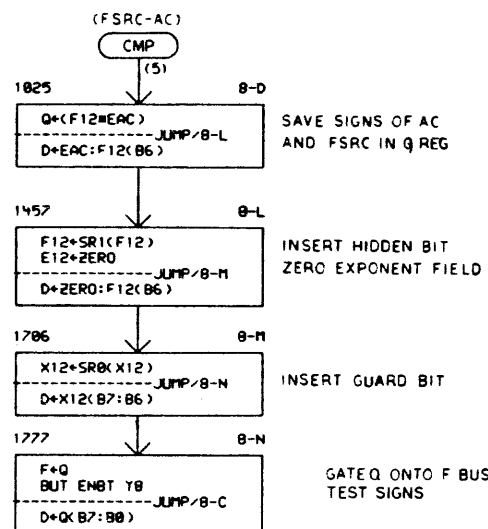
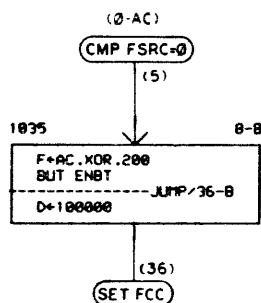
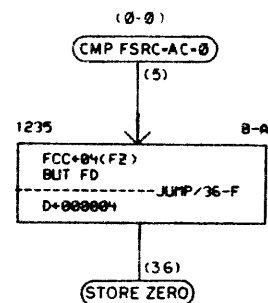
THIS ROUTINE SETS UP THE FSRC SO THAT
THE ROUND/TRUNK ROUTINE CAN BE USED
TO COMPLETE THE OPERATION

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE FPII-F-FLOWS (7)		SIZE CODE D FD	NUMBER FPII-F-2	REV. B
SCALE	SHEET 10 OF 40	DIST.		

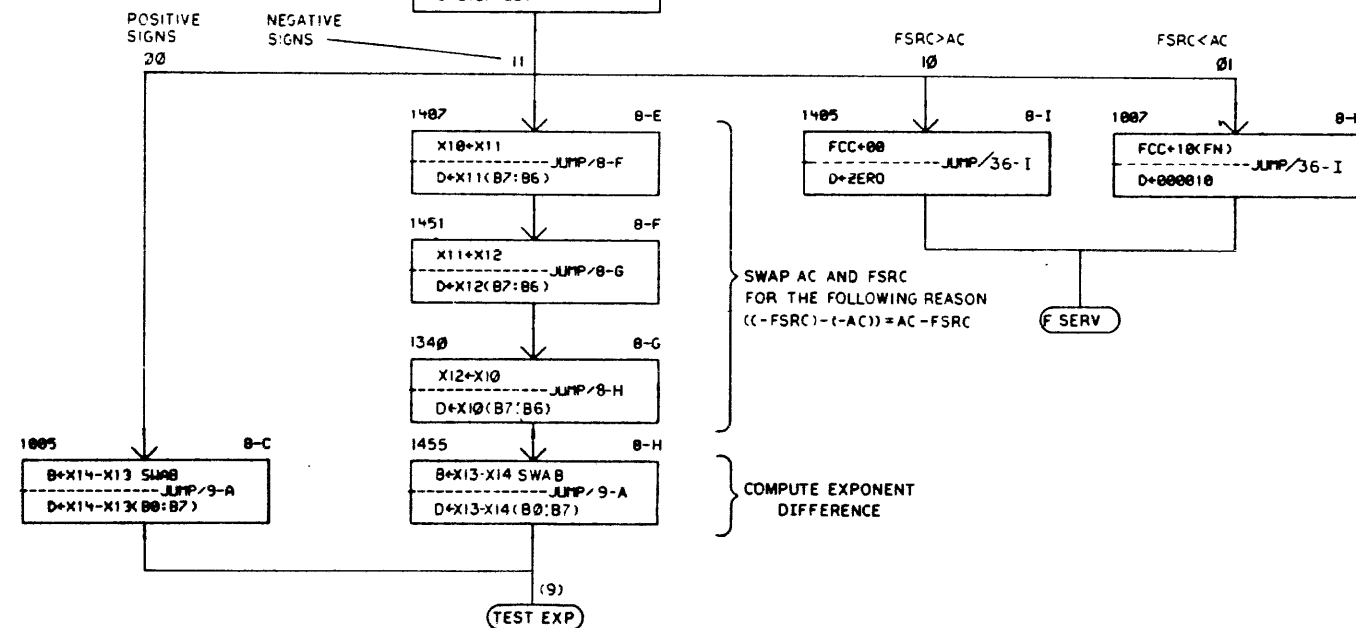
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2 1
D FD FPII-F-2



THE COMPARE INSTRUCTION IS ACCOMPLISHED BY SUBTRACTING THE AC FROM THE FSRC AND SETTING THE CONDITION CODES ON THE RESULT. THIS ALGORITHM FORCES TRIVIAL CASES TO FALL OUT AS FOLLOWS:

- 1 TEST FOR ZERO OPERANDS (8-A,8-B,8-J)
- 2 TEST FOR OPPOSITE SIGNS (8-I,8-K)
- 3 TEST FOR NONEQUAL EXPONENTS (9-G,9-H)
- 4 TEST FRACTIONAL DIFFERENCE

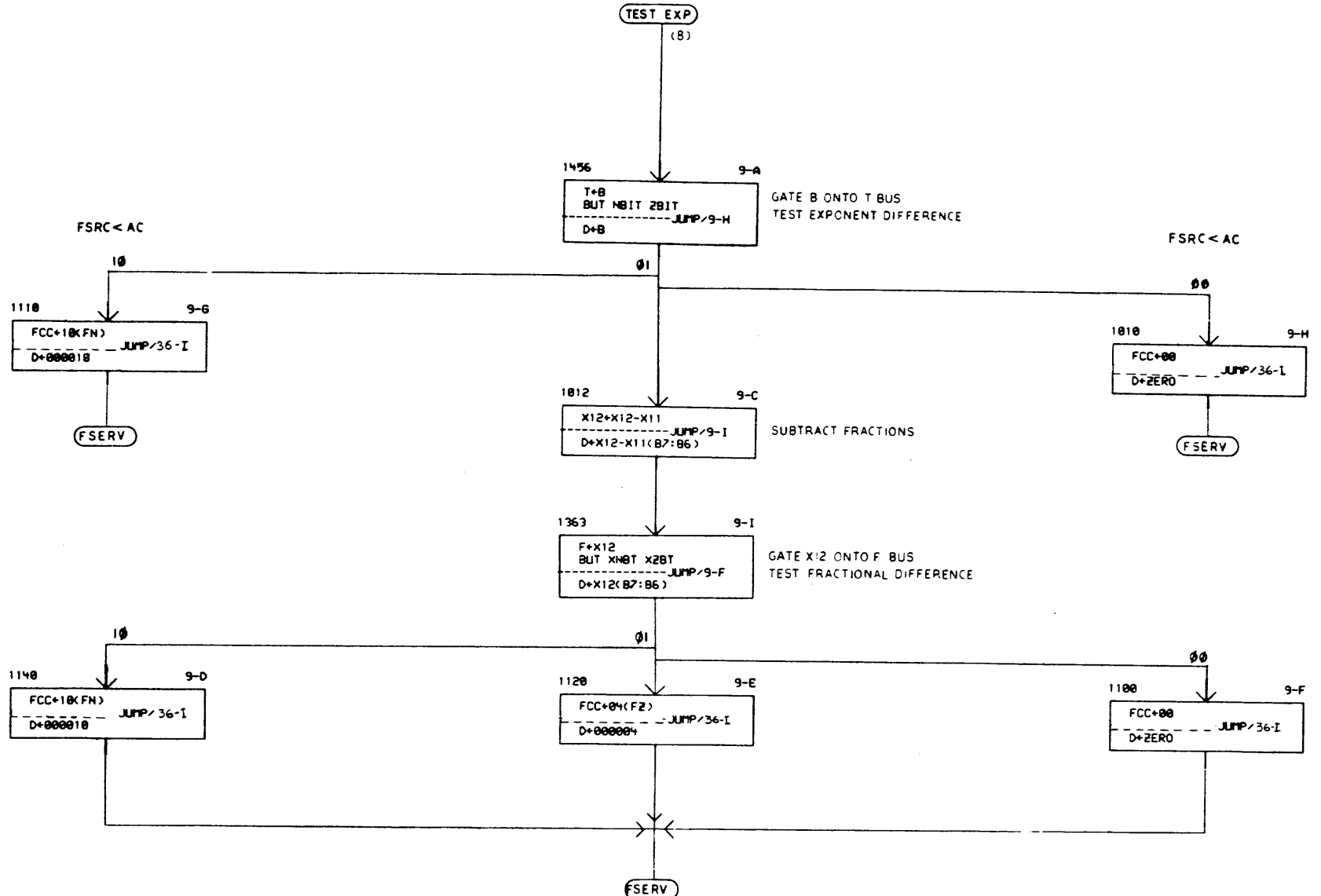


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE		NUMBER		REV.
FPII-F-FLOWS (8)		D	FD	FPII-F-2		B
SCALE	SHEET 11 OF 40		DIST.			

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8 7 6 5 4 3 2 1
D FD FPII-F-2 030 2

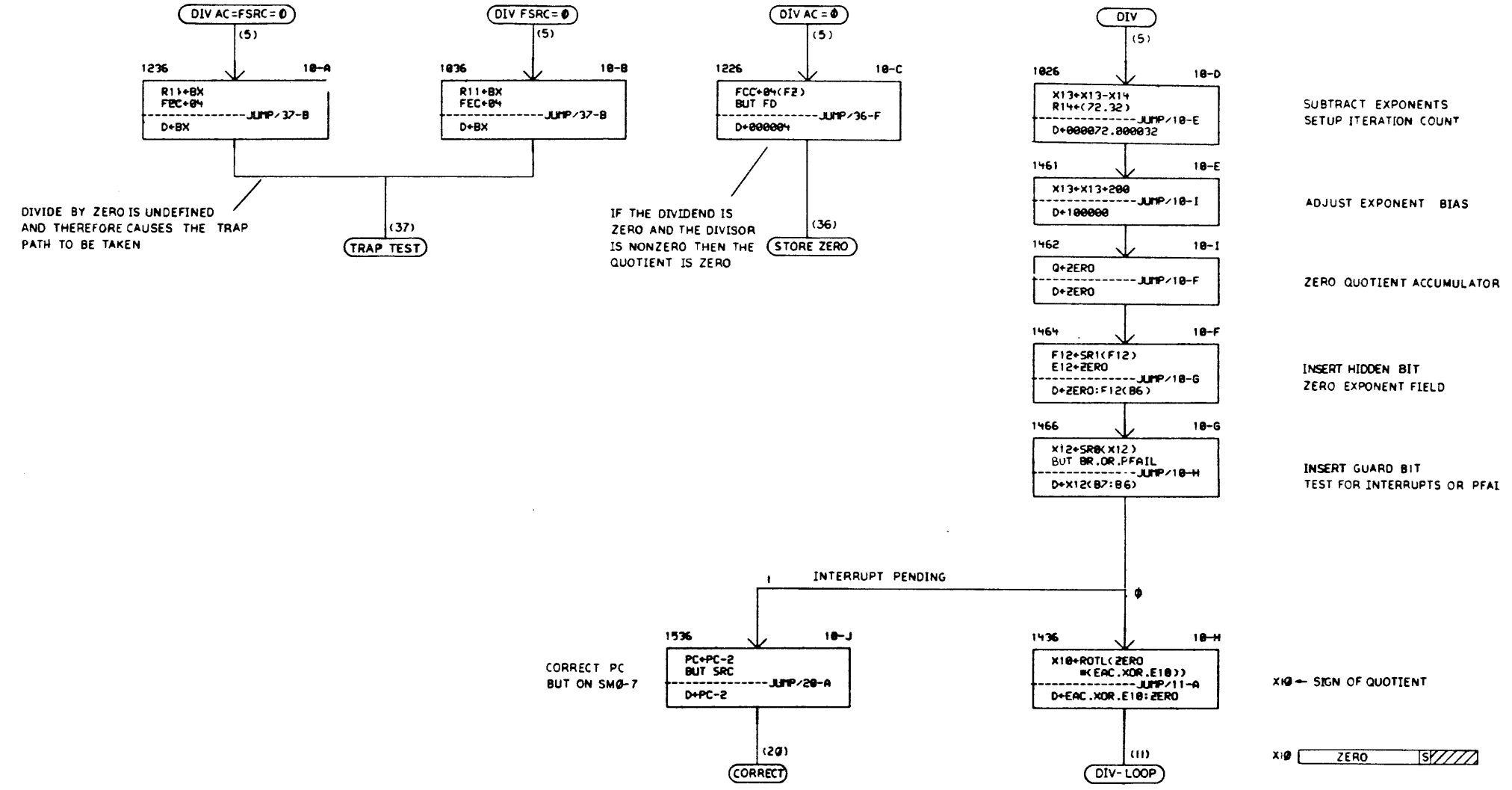


REV B
D FD FPII-F-2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE
FPII-F-FLOWS (9)
SCALE
SHEET 12 OF 40
SIZE CODE
D FD
NUMBER
FPII-F-2
REV.
B

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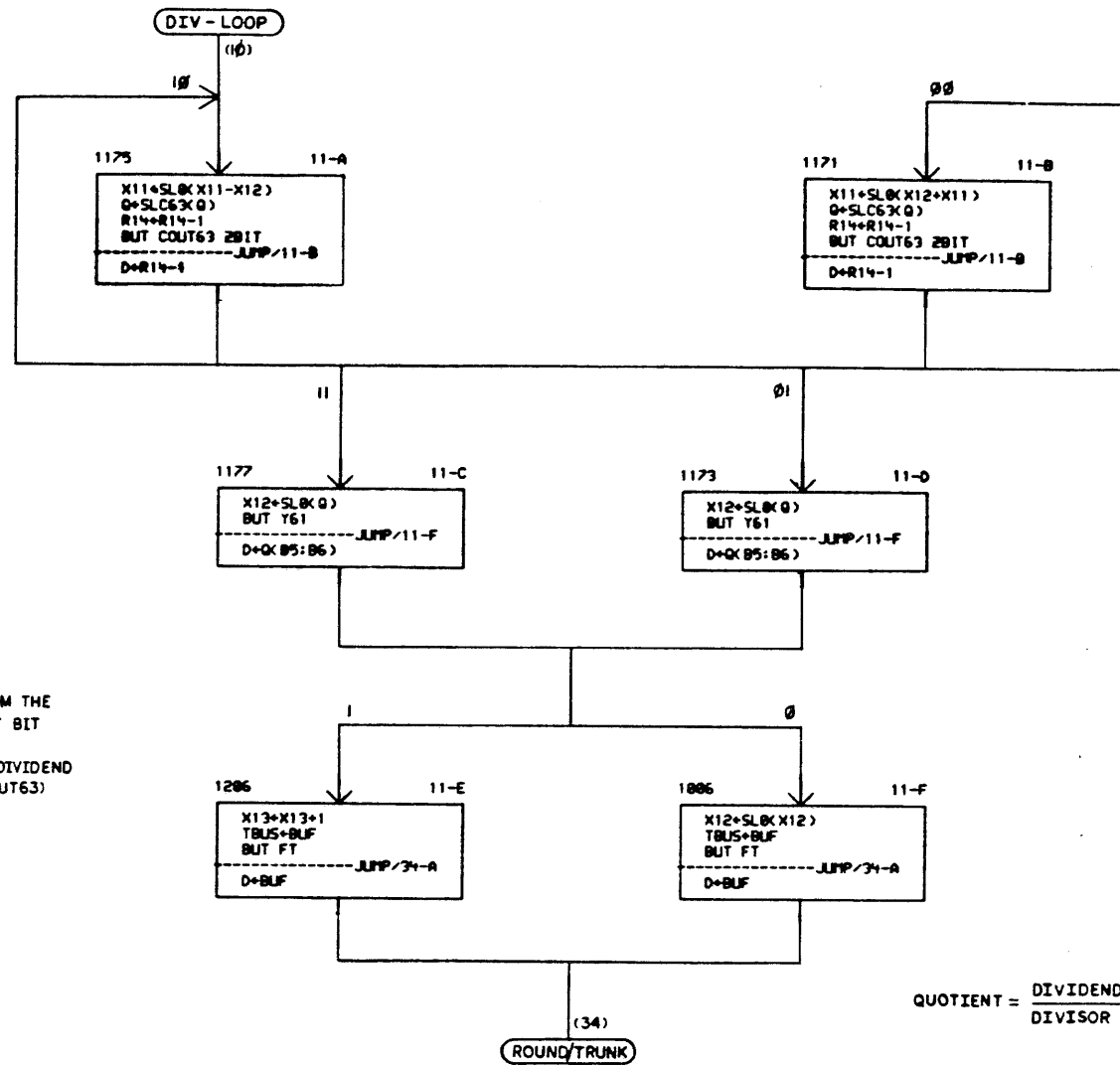


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER		REV.
FPII-F FLOWS (10)		D	FD	FPII-F-2		B
SCALE		SHEET 13 OF 40		DIST.		

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8 7 6 5 4 3 2 1
D FD FPII-F-2 2

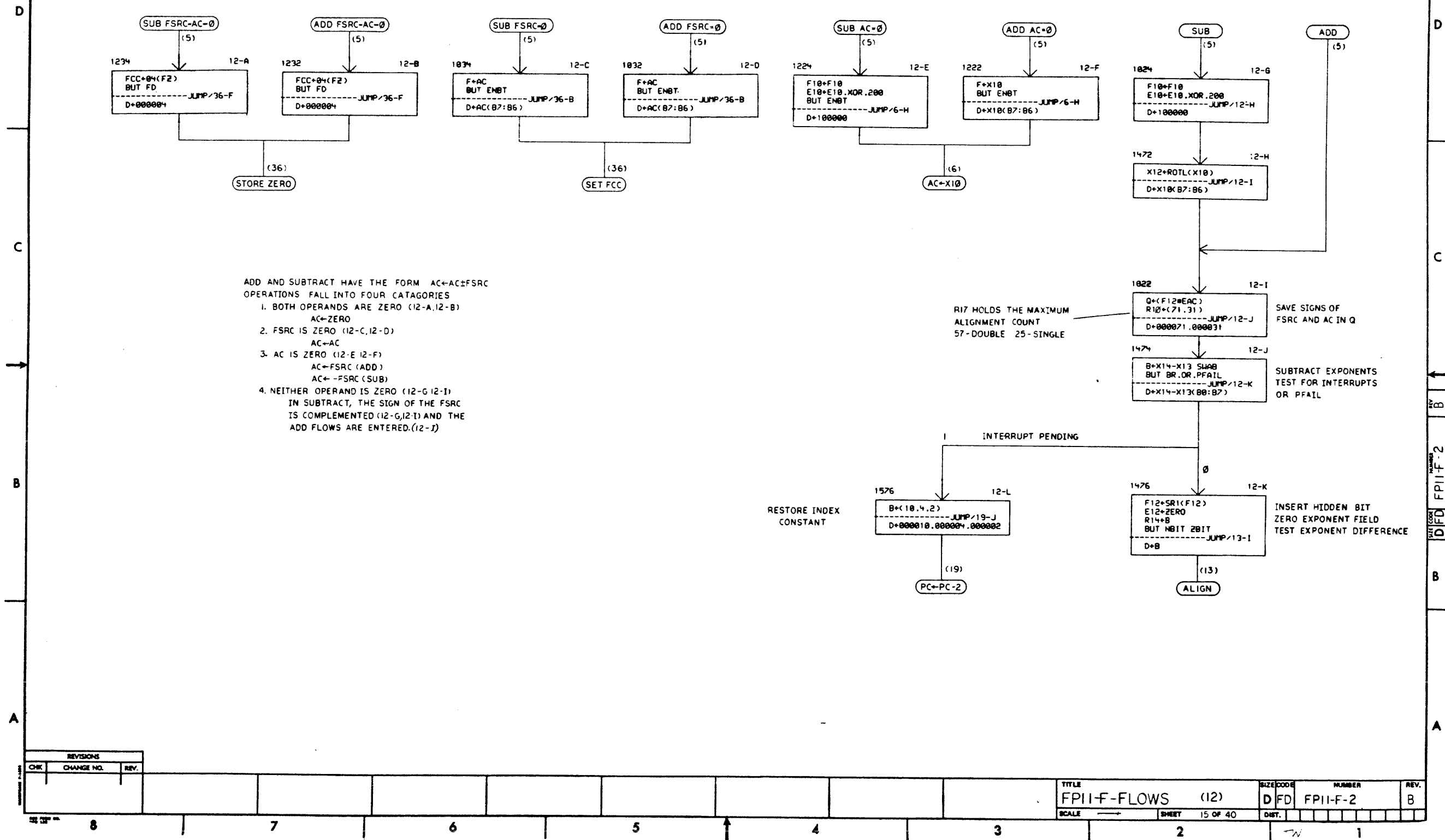


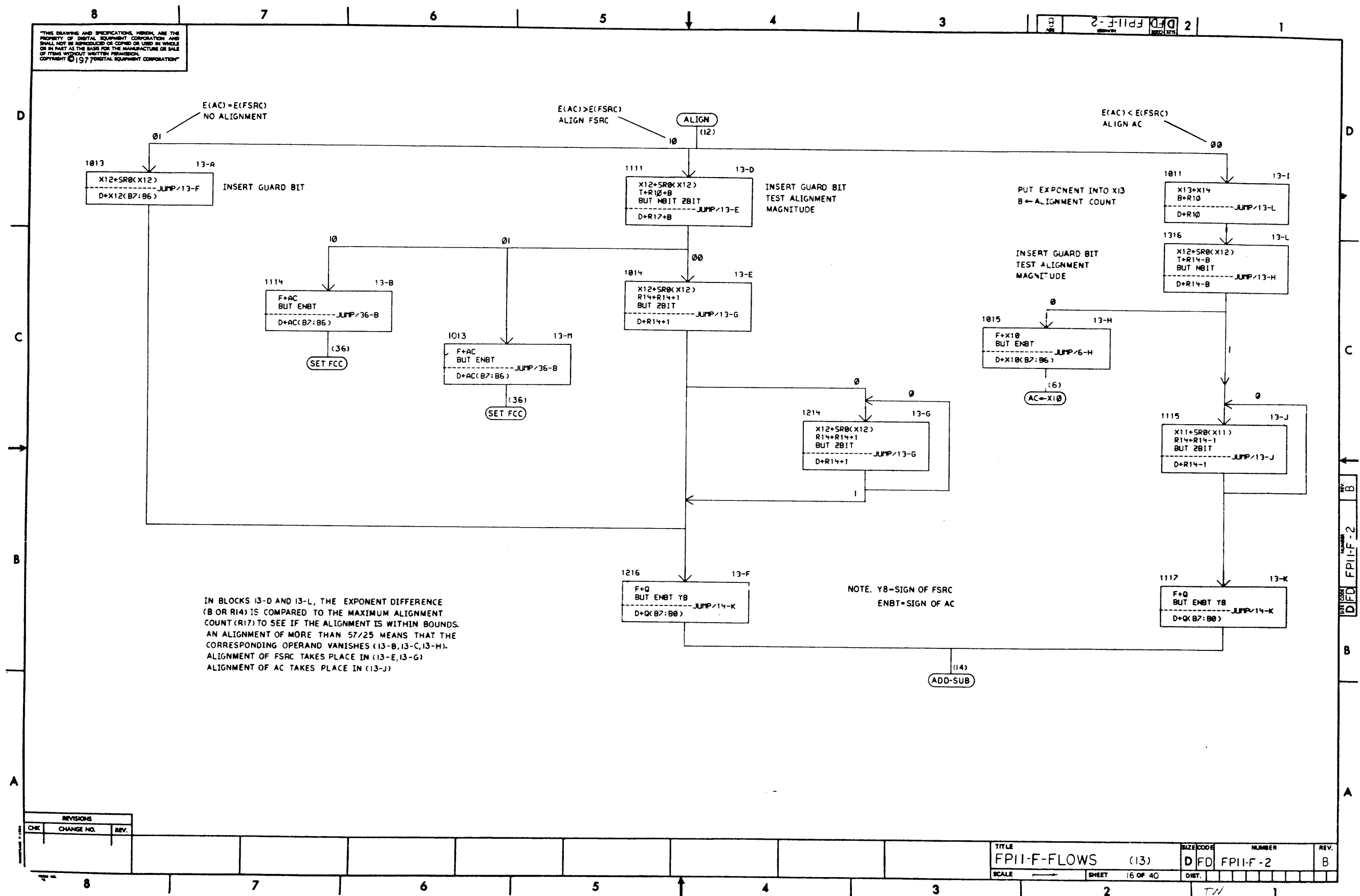
THIS IS A NONRESTORING
DIVISION ALGORITHM IN WHICH:
1. THE DIVISOR IS SUBTRACTED FROM THE
DIVIDEND IF THE LAST QUOTIENT BIT
(COUT63) WAS ONE.
2. THE DIVISOR IS ADDED TO THE DIVIDEND
IF THE LAST QUOTIENT BIT (COUT63)
WAS ZERO.

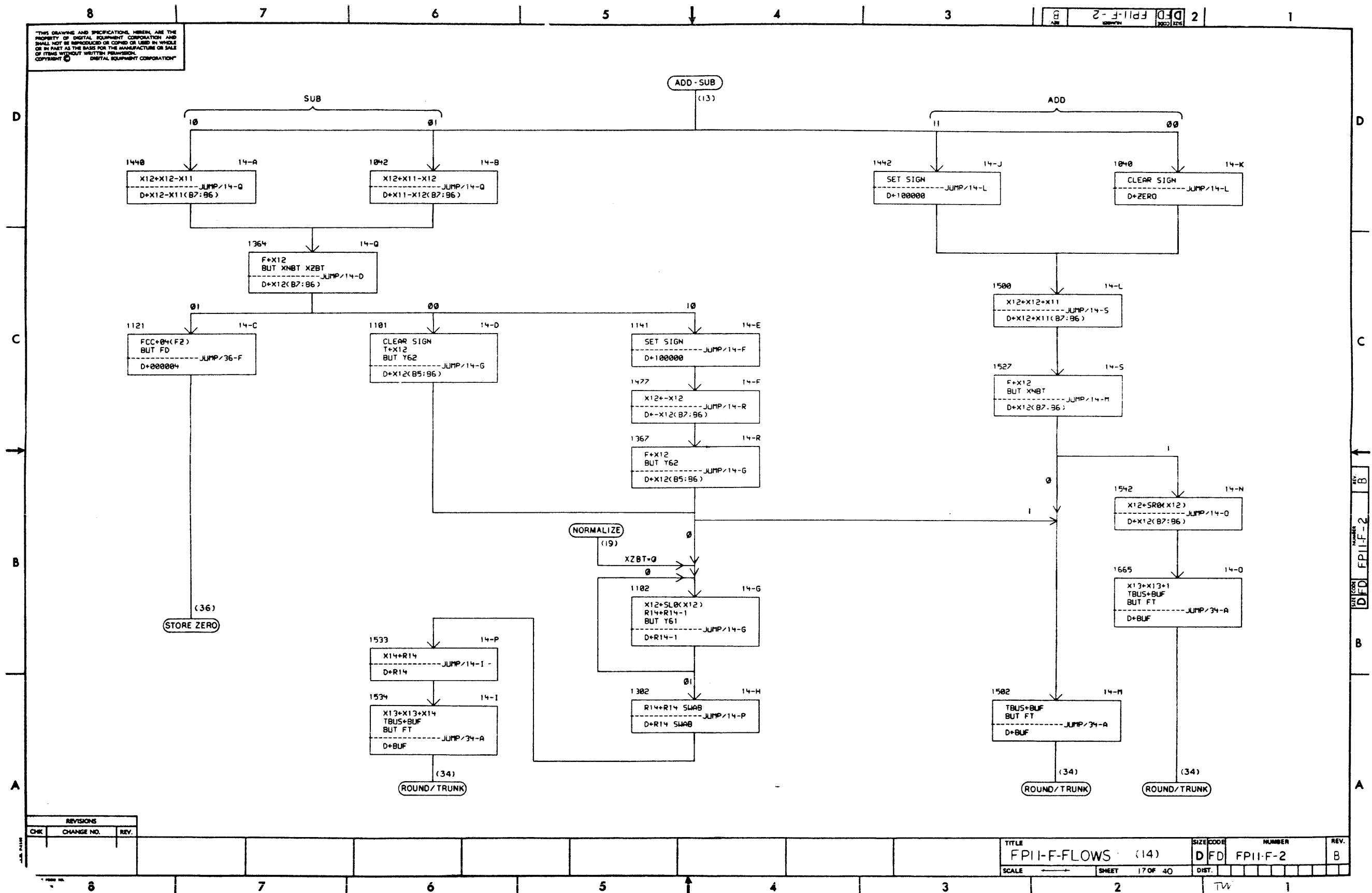
$$\text{QUOTIENT} = \frac{\text{DIVIDEND}}{\text{DIVISOR}} = \frac{AC}{FSRC} = \frac{X11}{X12}$$

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-F-FLOWS (11)		D FD	FPII-F-2	8
SCALE	SHEET 14 OF 40	DIST.	TW	

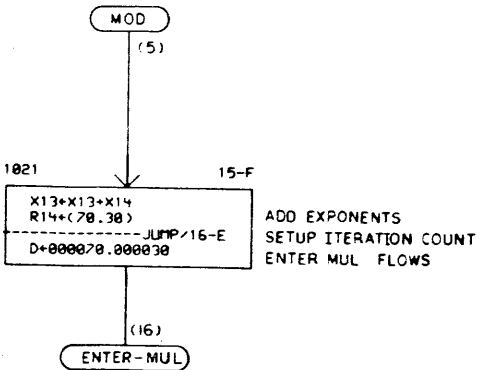
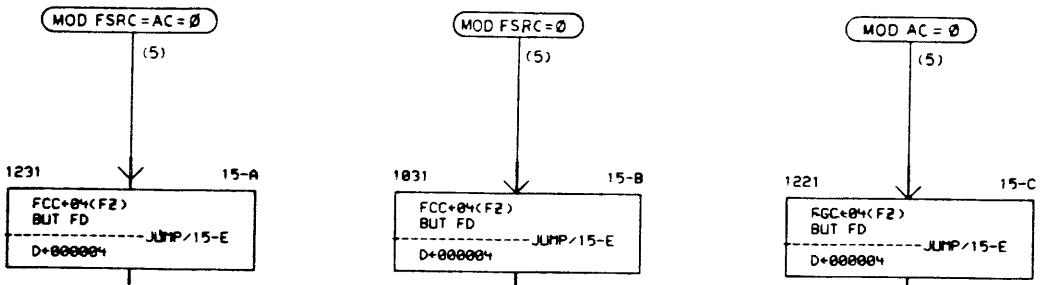






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8 7 6 5 4 3 2 1
FD FPII-F-2 2



THIS INSTRUCTION GENERATES THE PRODUCT OF ITS TWO FLOATING POINT OPERANDS, SEPARATES THE PRODUCT INTO INTEGER AND FRACTIONAL PARTS AND THEN STORES BOTH PARTS AS NORMALIZED FLOATING POINT NUMBERS. FOR EXAMPLE, IF

PRODUCT = .1111000111 X 2⁴

THEN

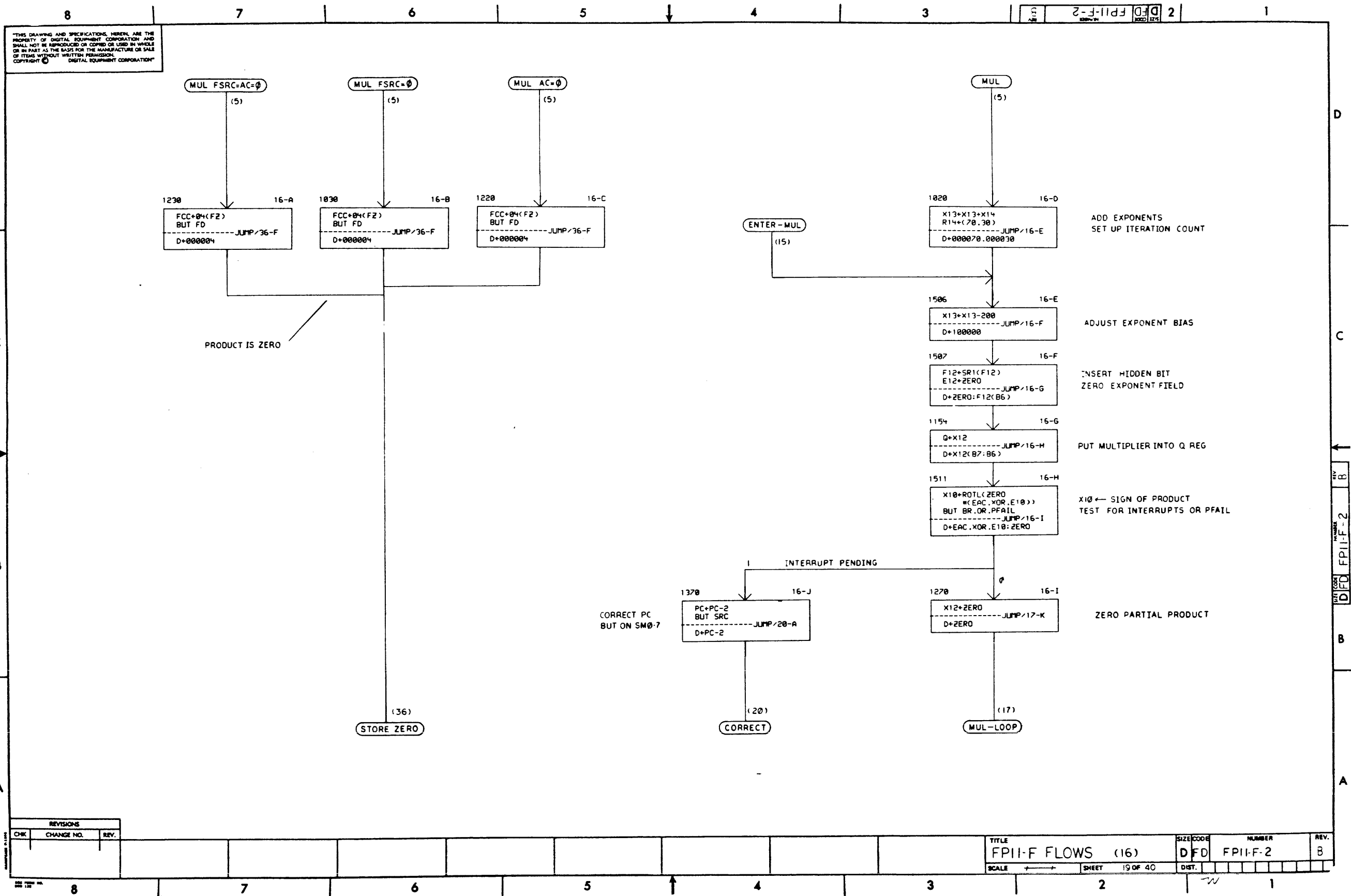
INTEGER = .1111000000 X 2⁴

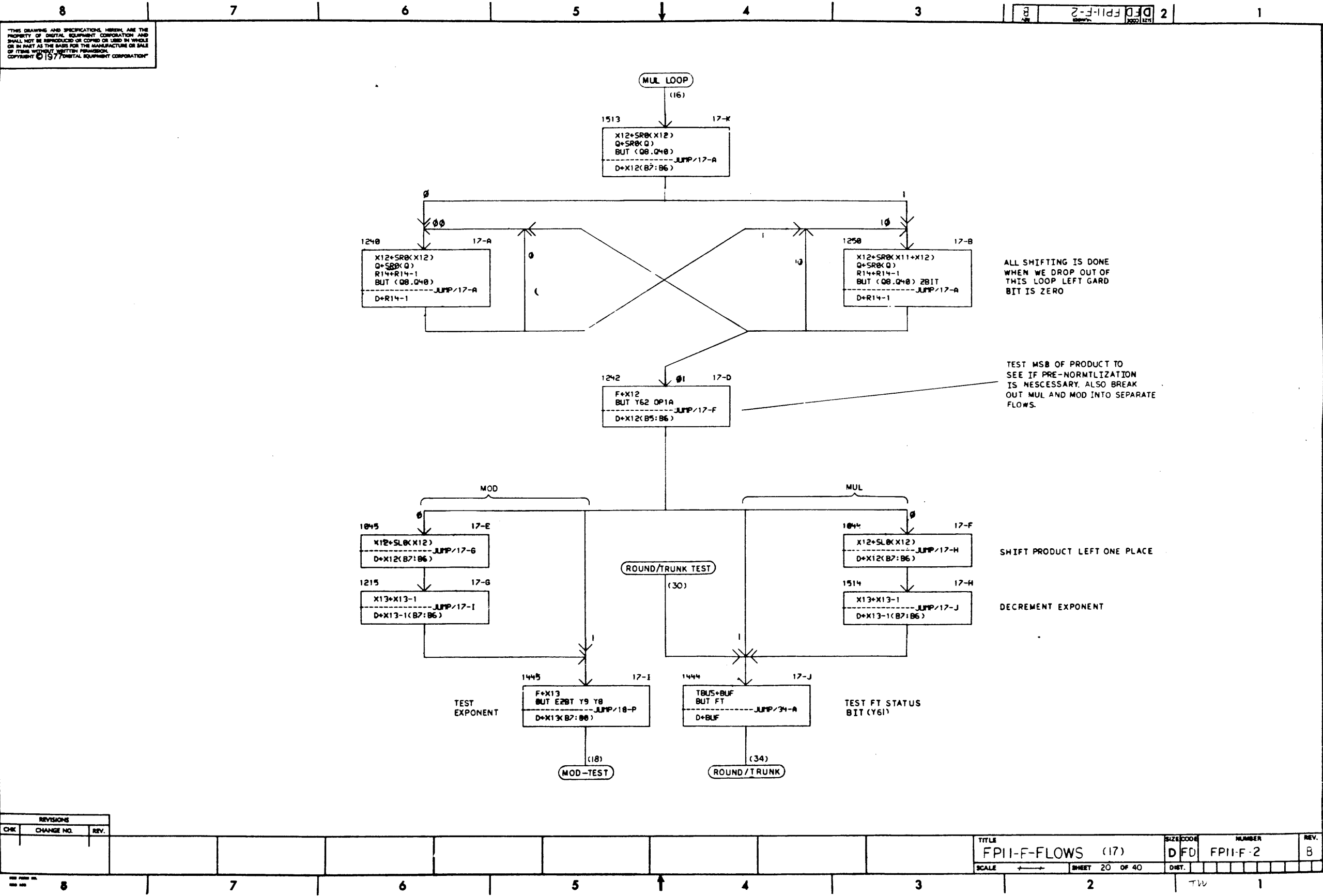
FRACTION = .0000000111 X 2⁴

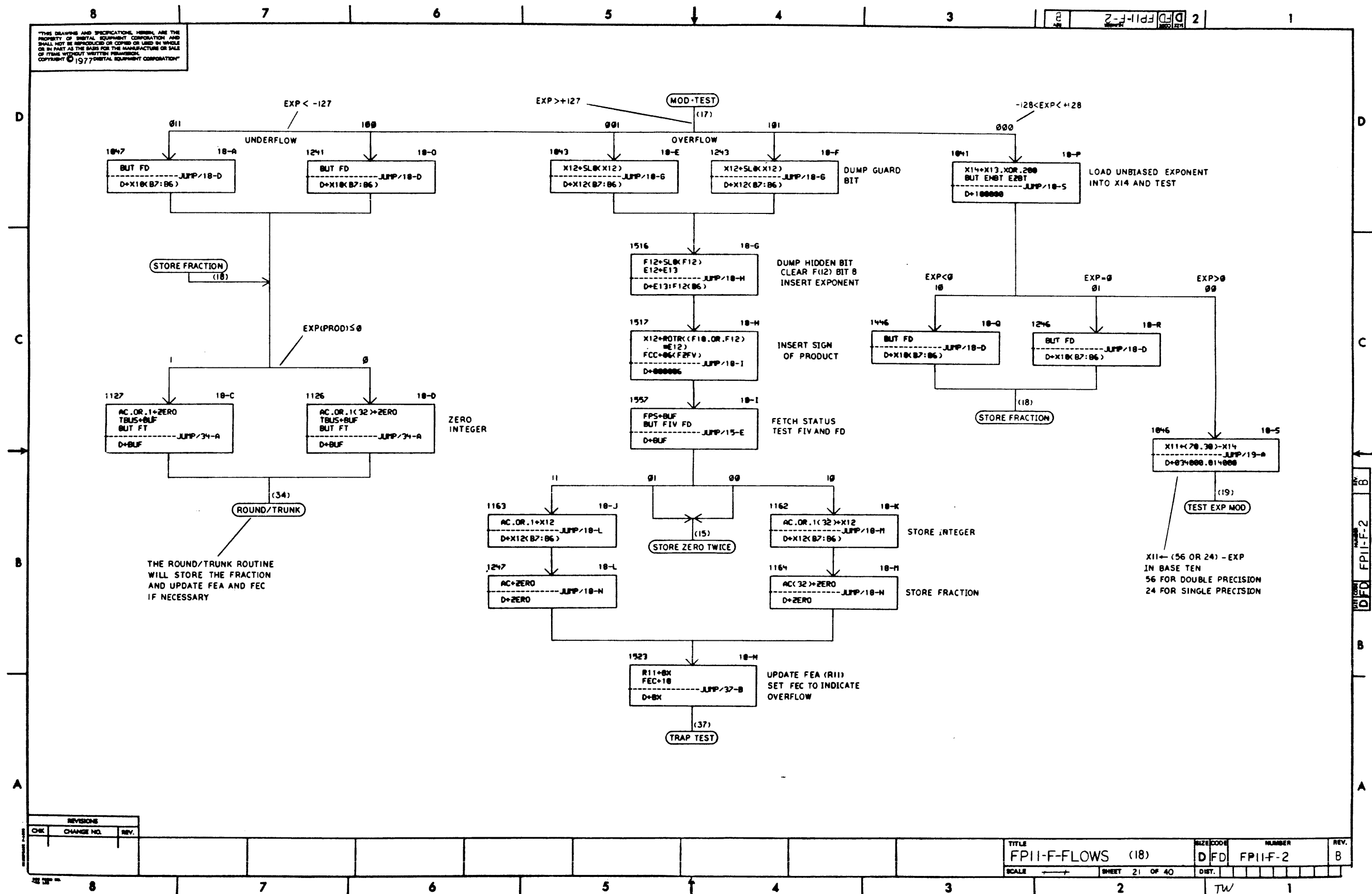
THE INTEGER IS STORED IN THE AC VI. THE FRACTION, AFTER BEING NORMALIZED, IS STORED IN THE AC. NOTE THAT IF THE AC IS AN ODD REGISTER, THE INTEGER IS OVER-WRITTEN BY THE FRACTION.

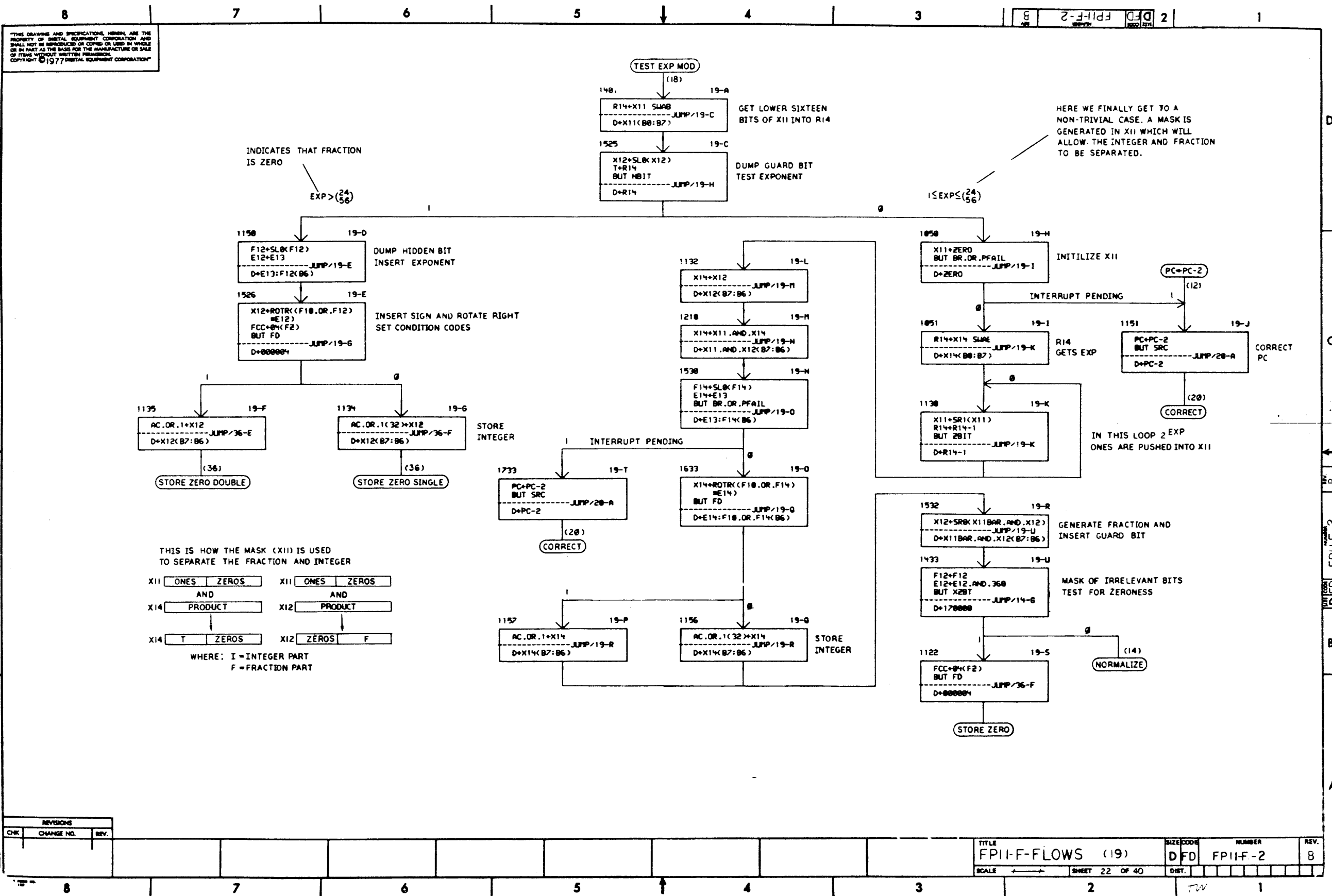
IN THIS CASE, BOTH FRACTION AND INTEGER ARE ZERO (SINCE THE PRODUCT IS ZERO)

REVISIONS		
CHK	CHANGE NO.	REV.

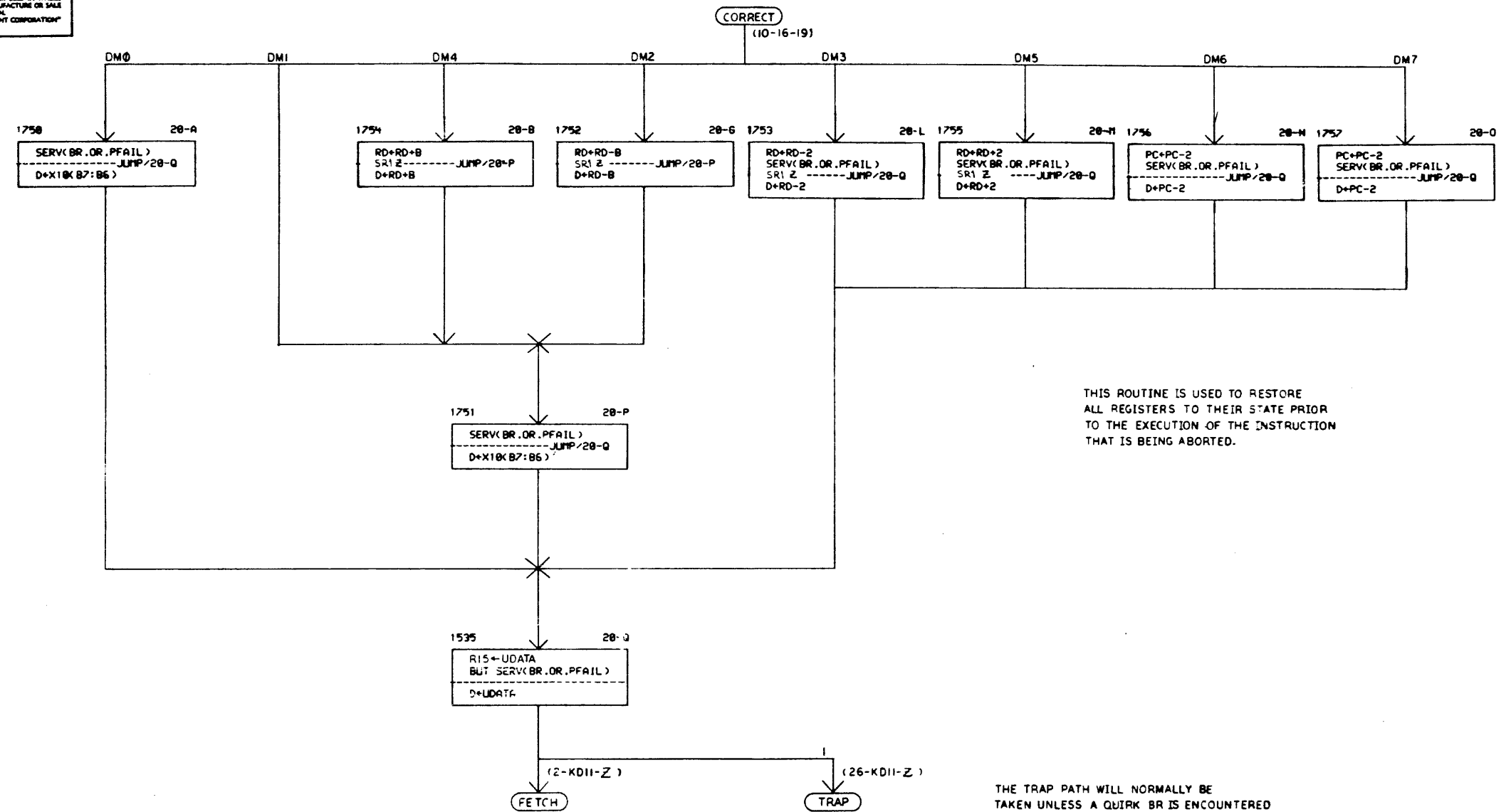








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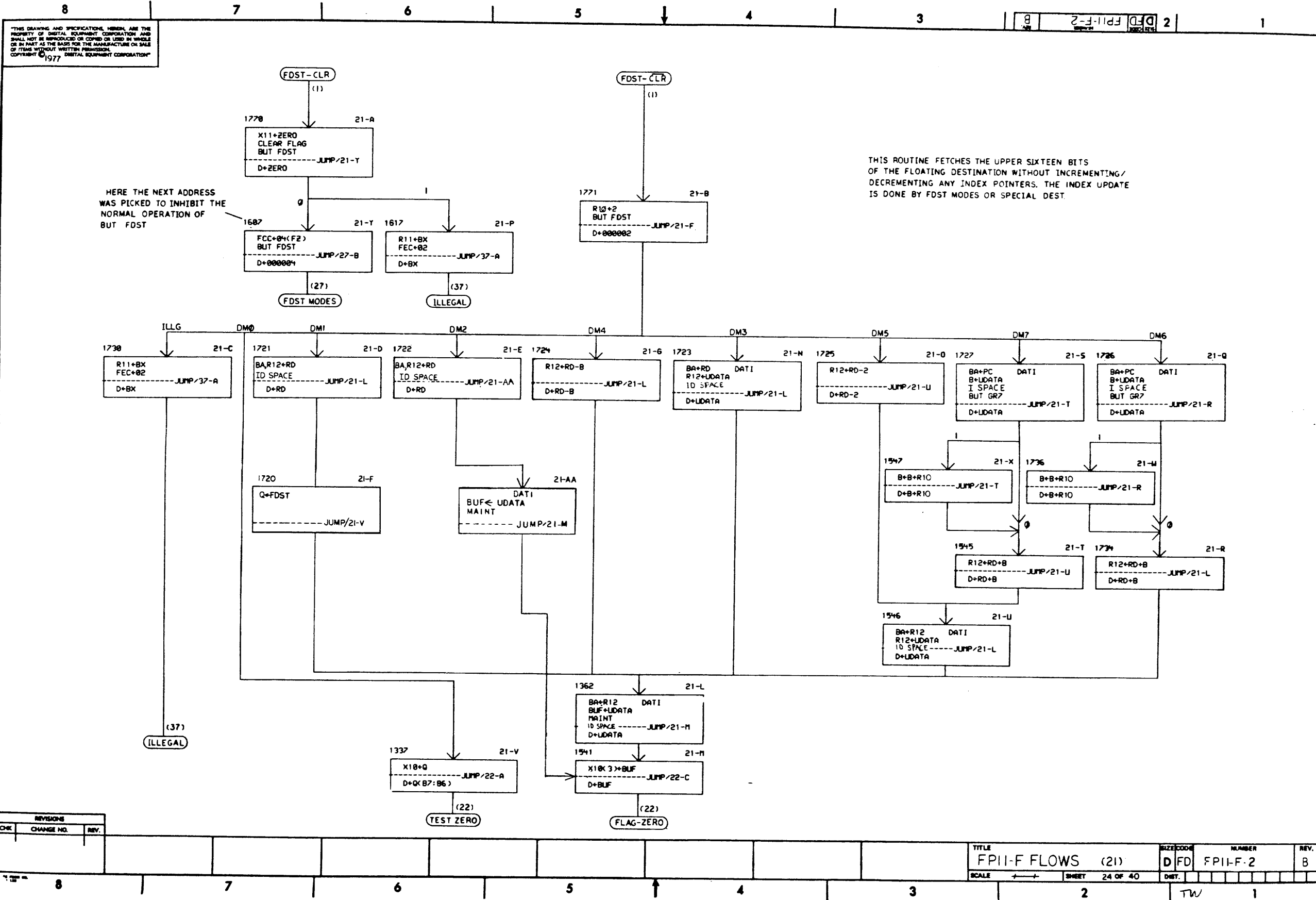


THIS ROUTINE IS USED TO RESTORE
ALL REGISTERS TO THEIR STATE PRIOR
TO THE EXECUTION OF THE INSTRUCTION
THAT IS BEING ABORTED.

THE TRAP PATH WILL NORMALLY BE
TAKEN UNLESS A QUIRK BR IS ENCOUNTERED
(A BR THAT IS ASSERTED AND THEN NEGATED
BEFORE THE PROCESSOR ISSUES A B6)

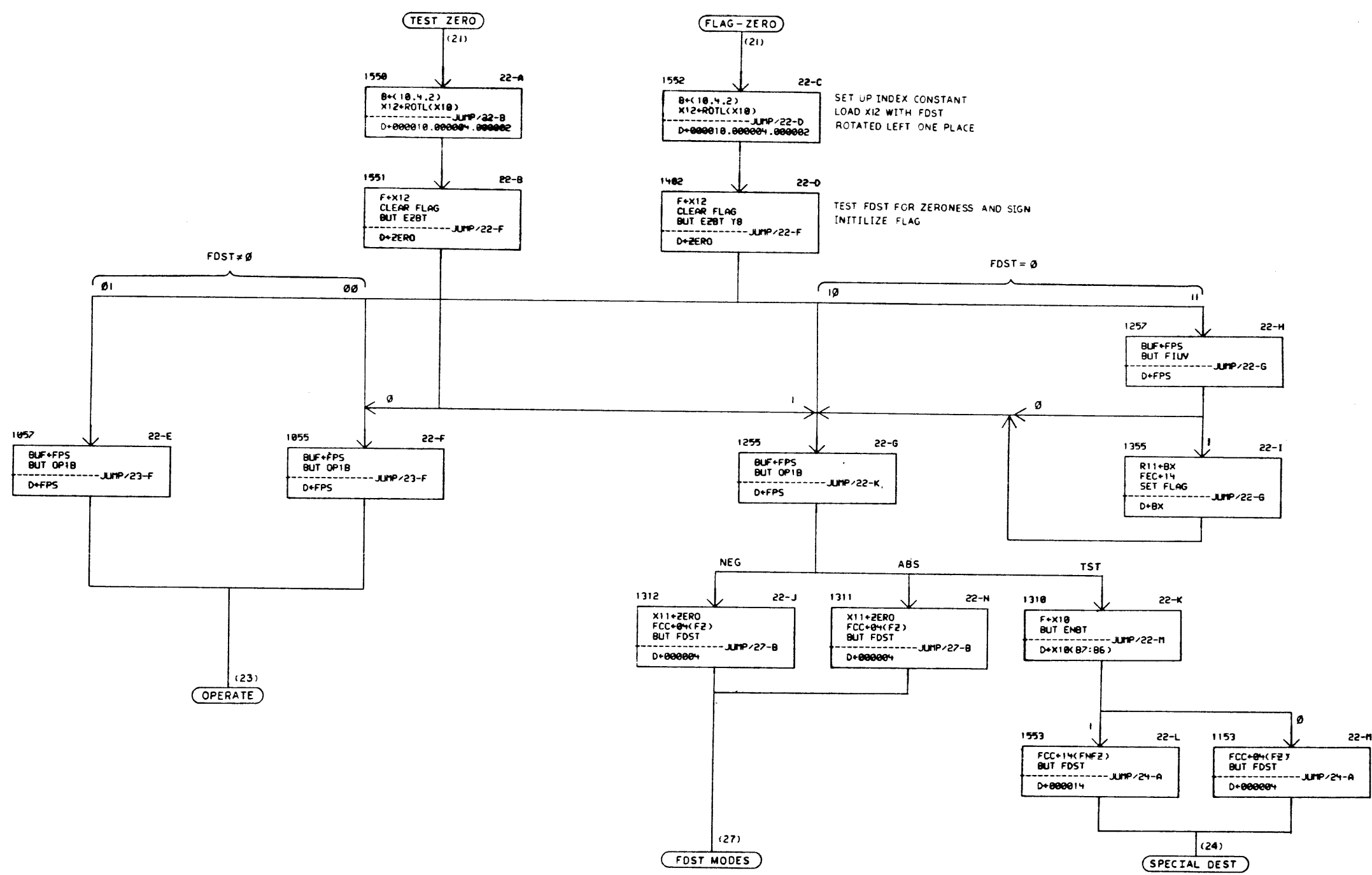
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPU-F-FLOWS (20)		D/FD	FPU-F-2	B
SCALE	SHEET 23 OF 40	DET.		



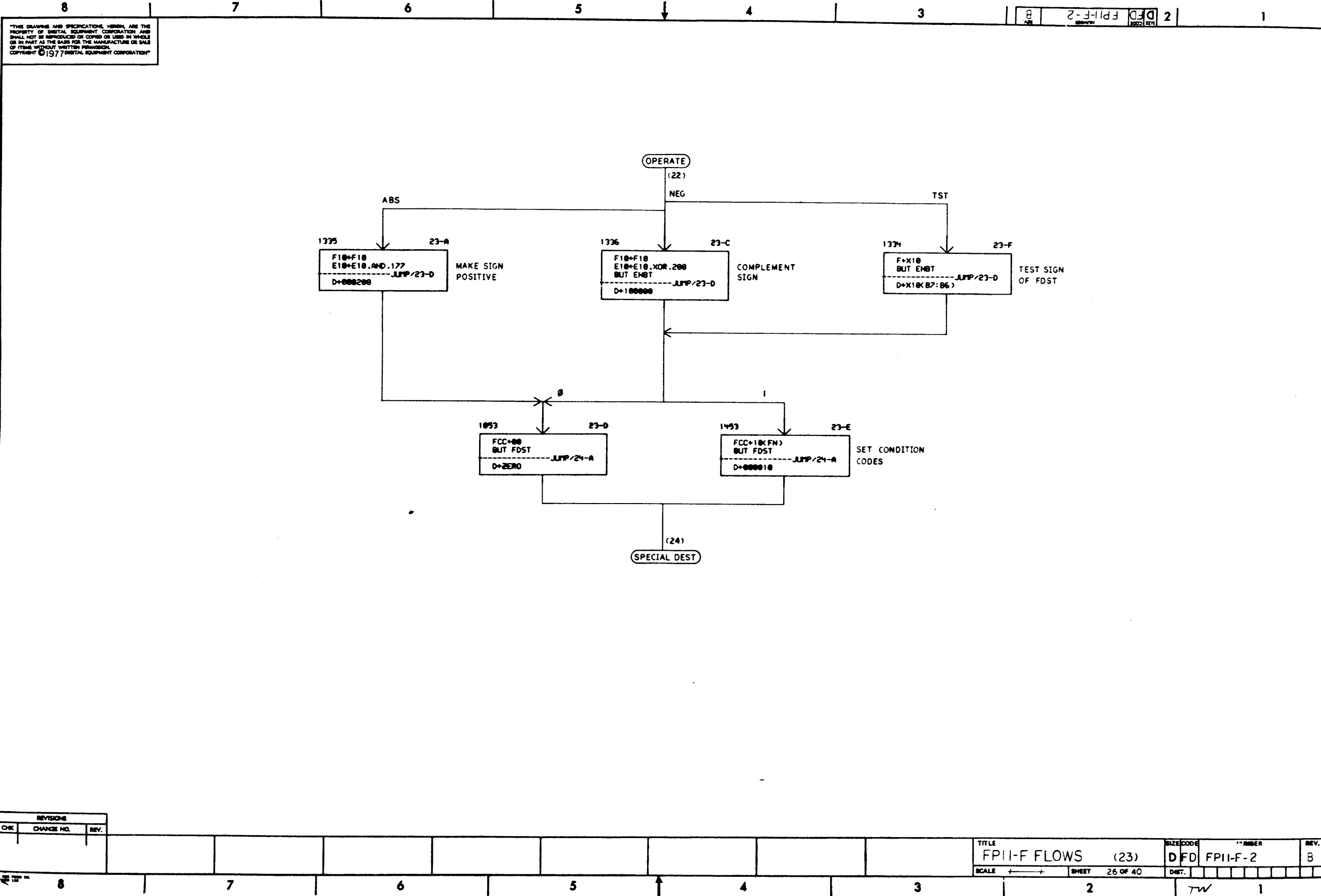
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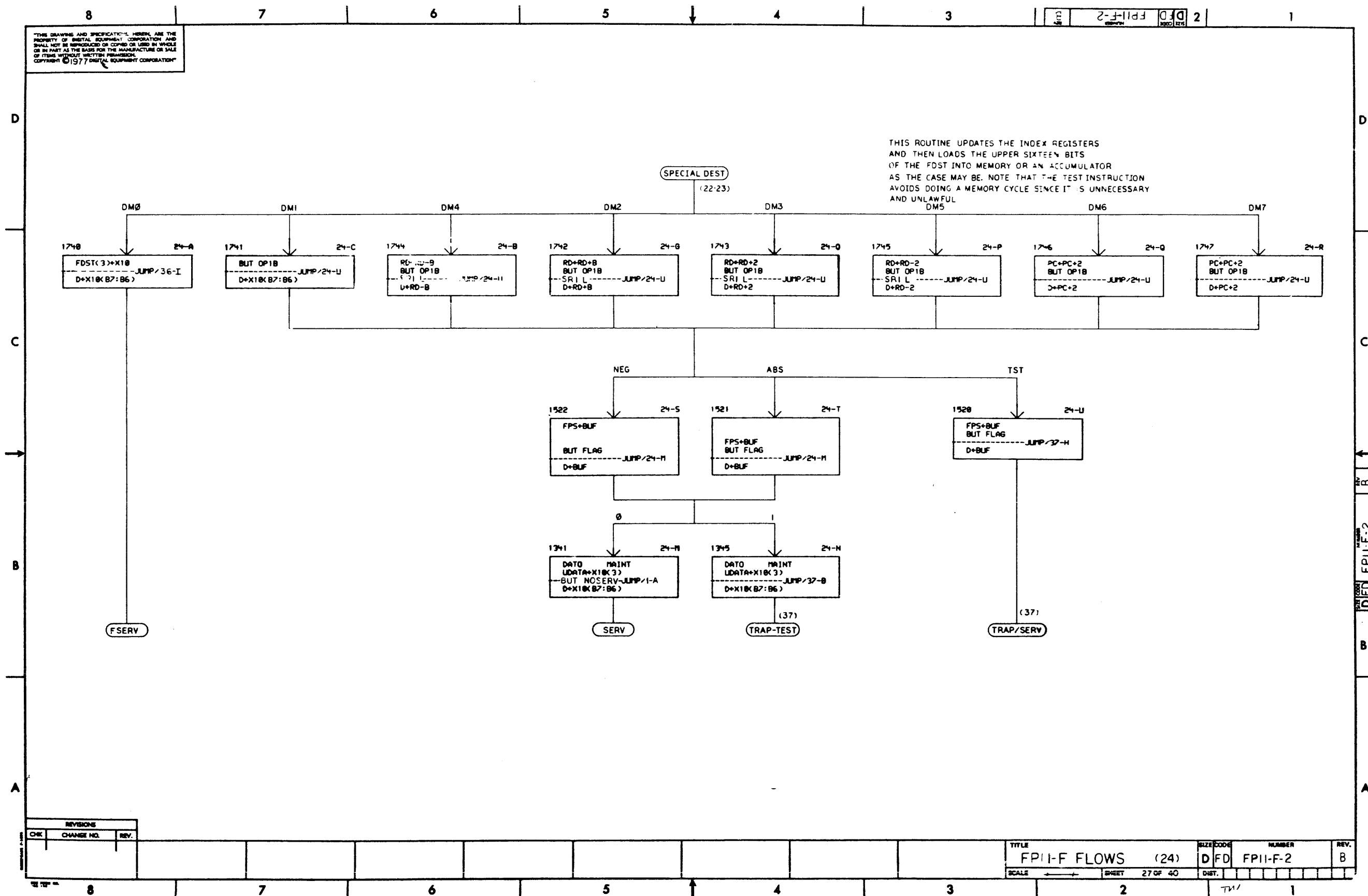
2 DFD FPII-F-2

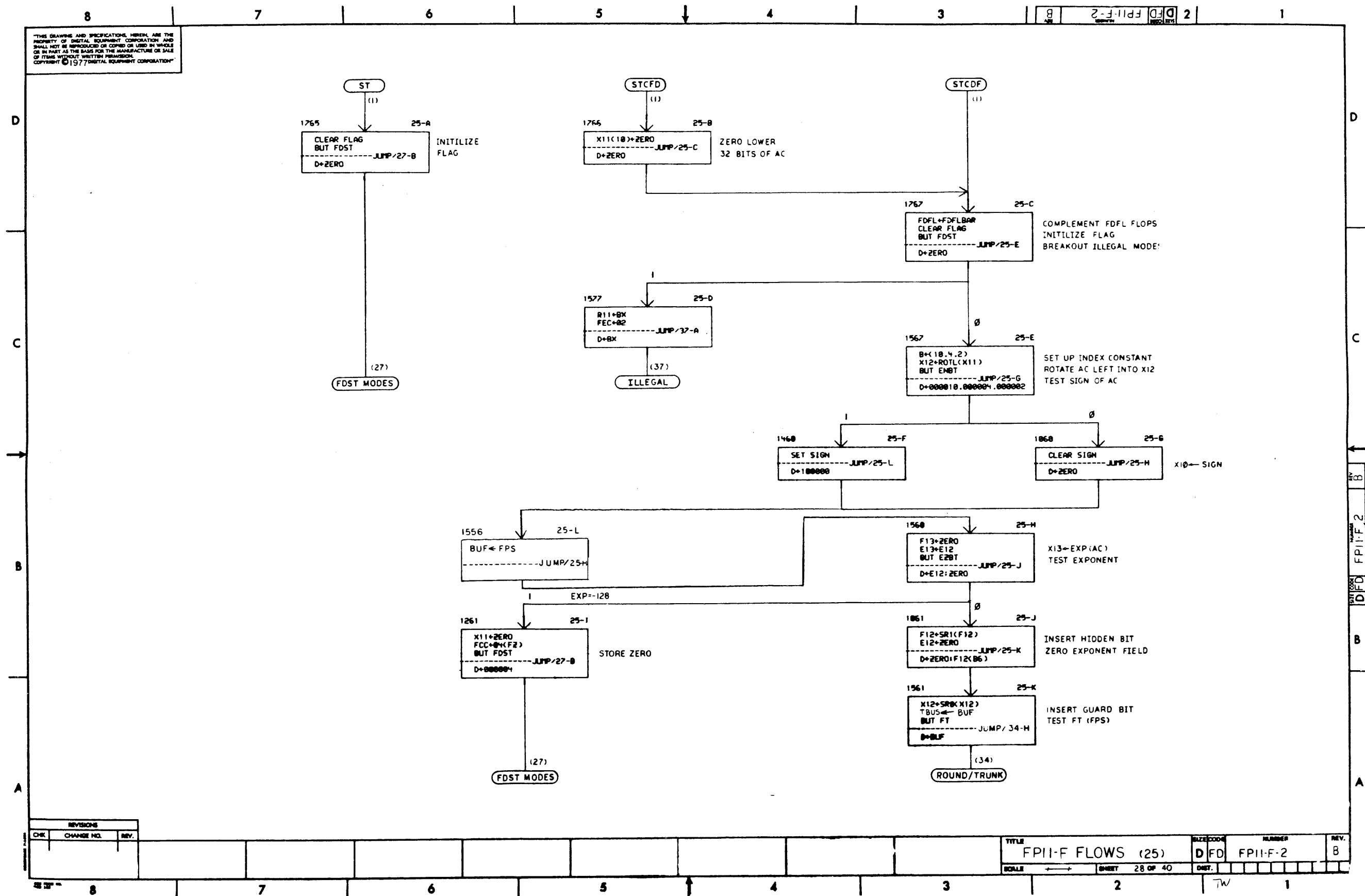


REVISIONS		
CHK	CHANGE NO.	REV.

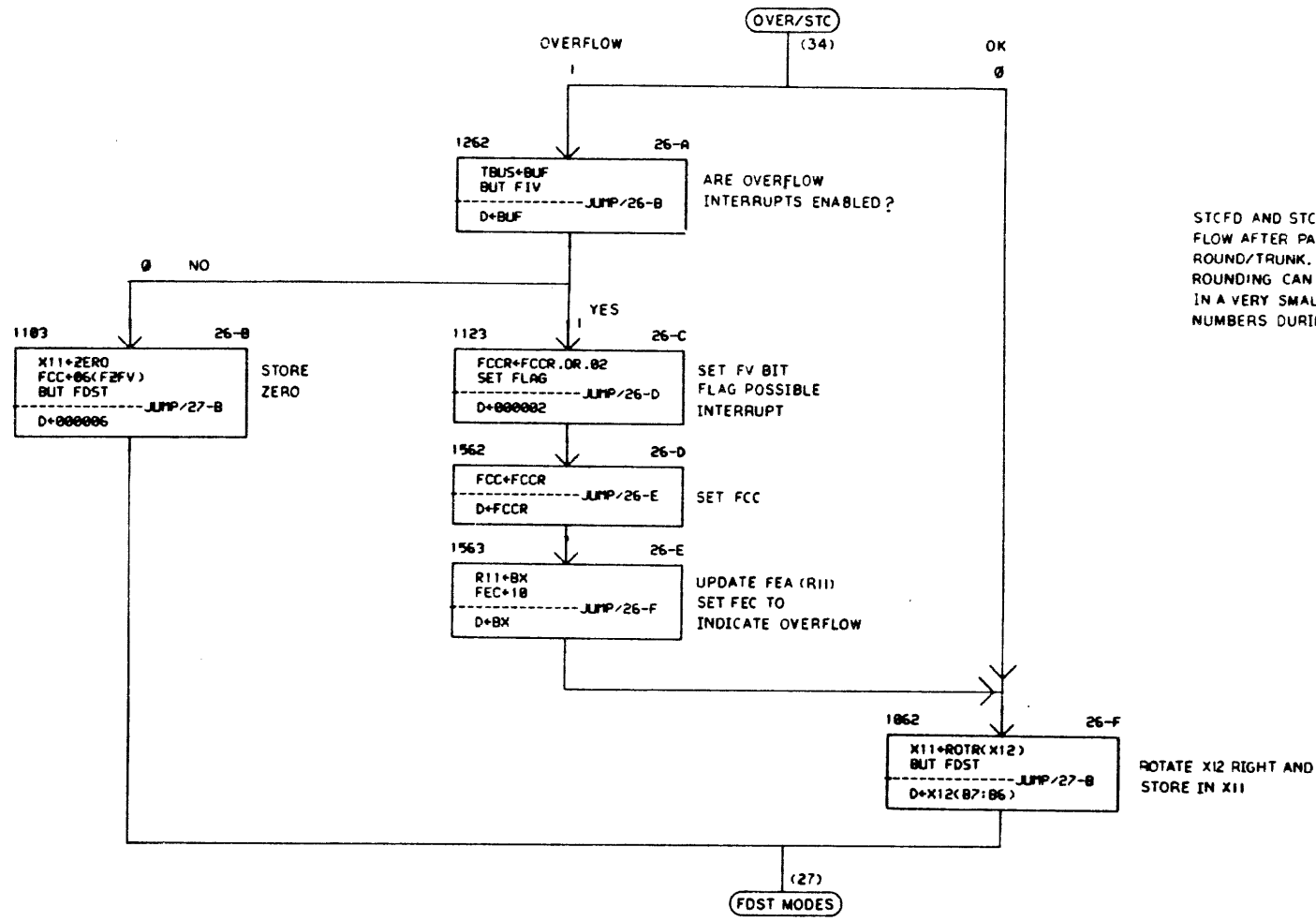
TITLE
FPII-F FLOWS (22)
SCALE
SHEET 25 OF 40
SIZE CODE
D F D
NUMBER
FPII-F-2
REV.
B







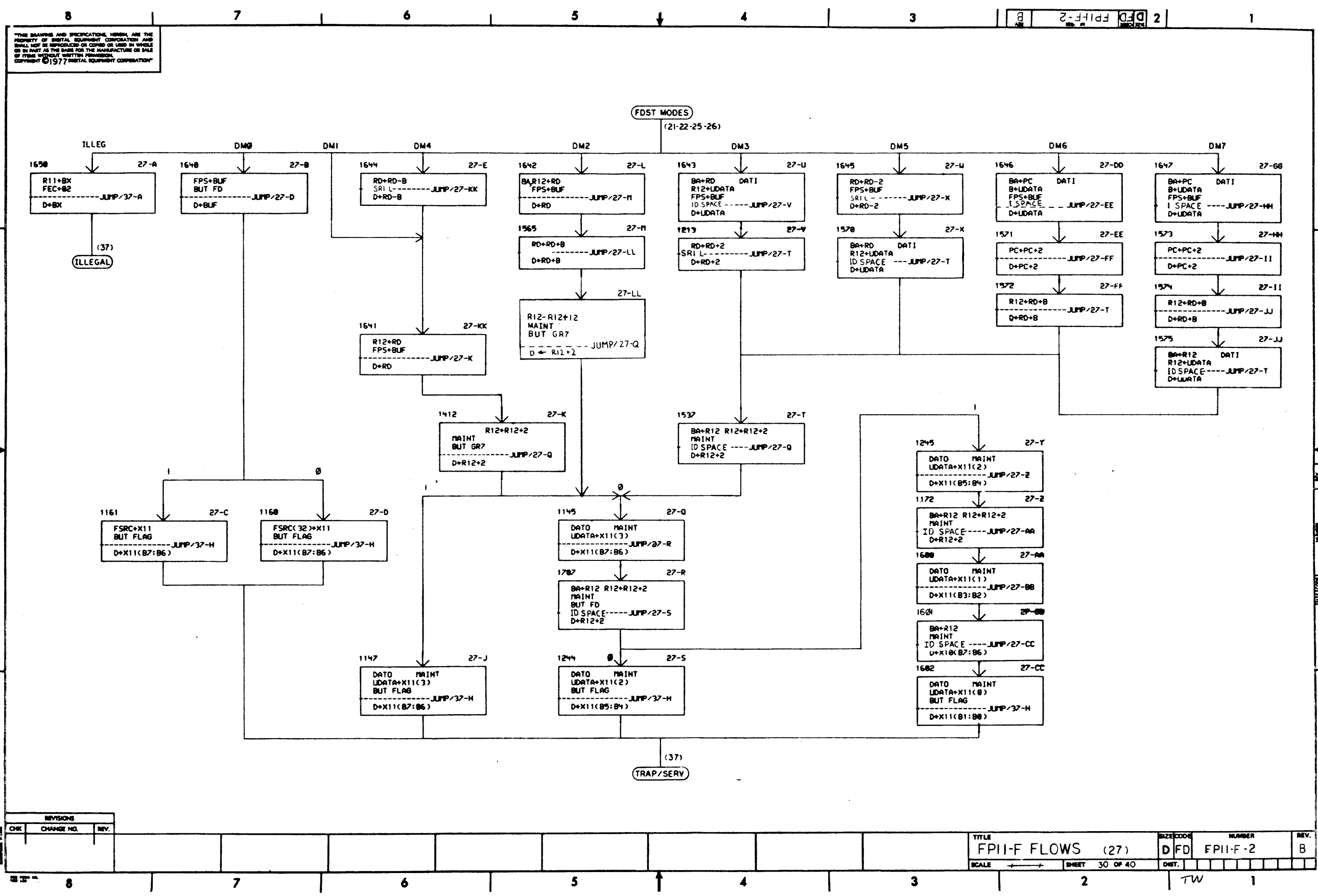
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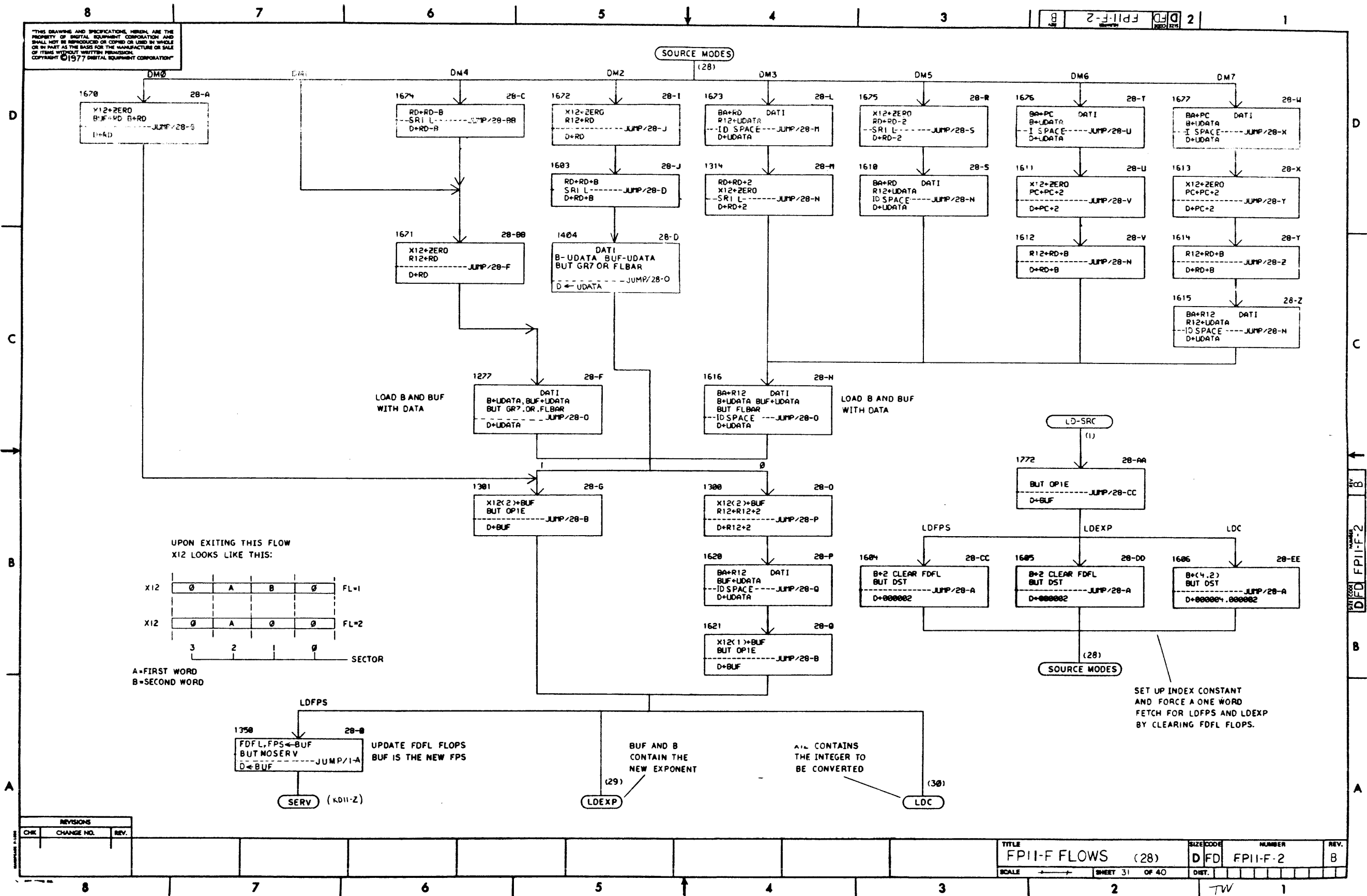


STCFD AND STCDF ENTER THIS FLOW AFTER PASSING THROUGH ROUND/TRUNK. THE PROCESS OF ROUNDING CAN CAUSE AN OVERFLOW IN A VERY SMALL CLASS OF VERY LARGE NUMBERS DURING STCDF (PROBABILITY = $\frac{1}{\infty}$)

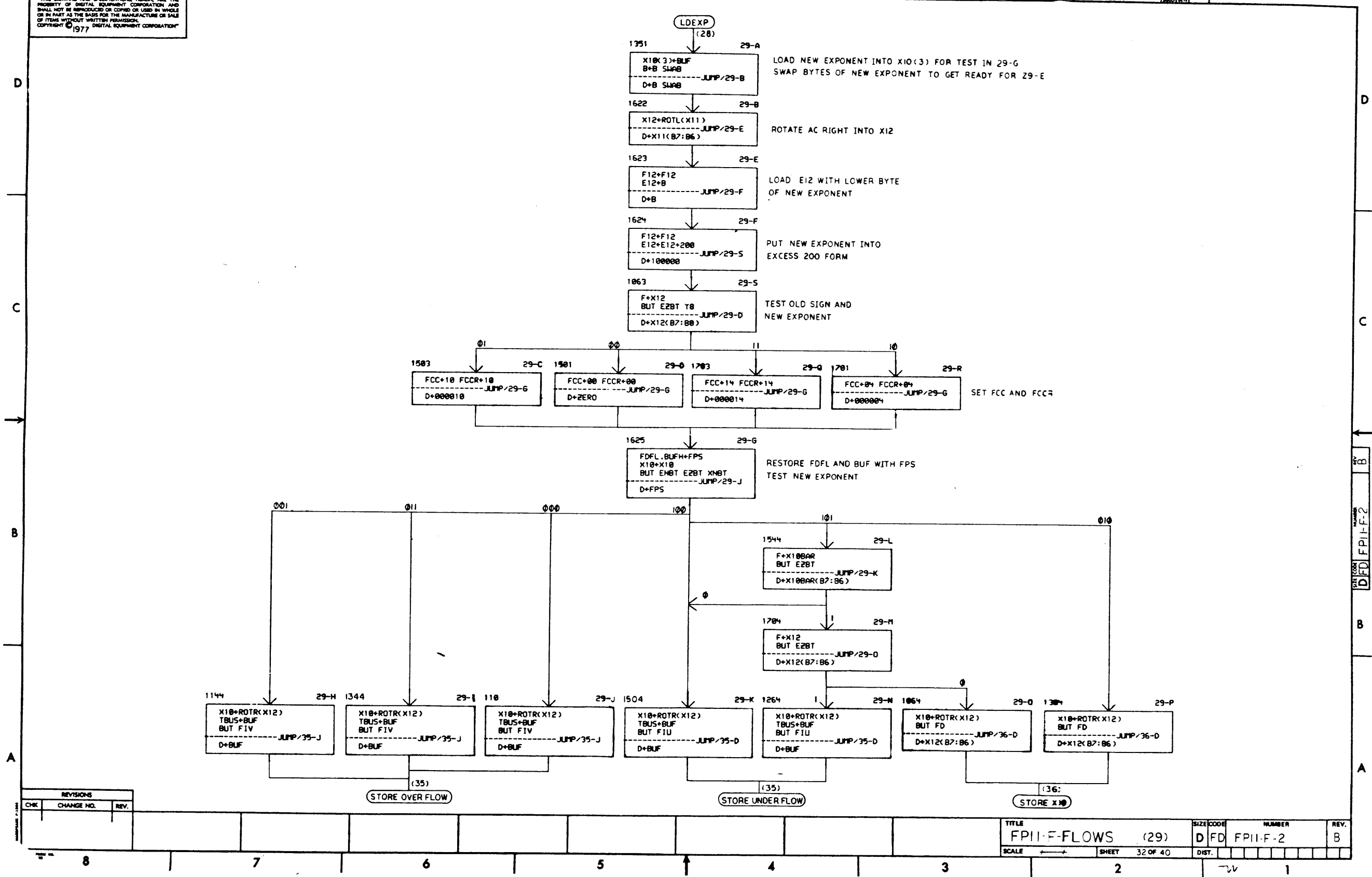
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPU F FLOWS (26)		D FD	FPU F-2	8
SCALE		SHEET	DIST.	
		29 OF 40		



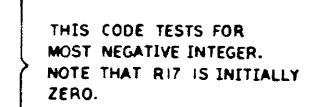


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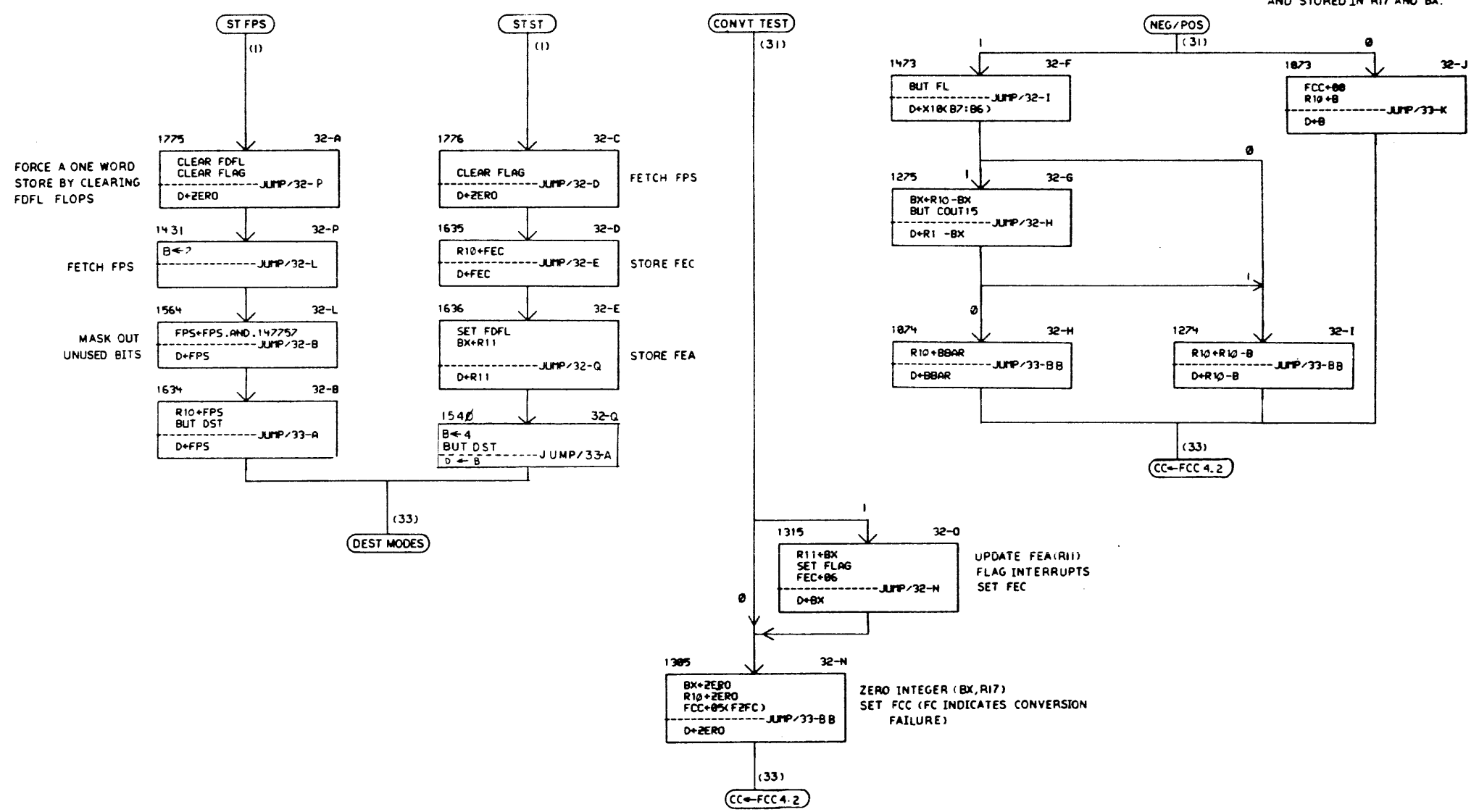
TITLE FPII-F-FLOWS (30)		SIZE D	CODE FD	NUMBER FPII-F-2		REV. B
SCALE →	SHEET 33 OF 40		DIST.			



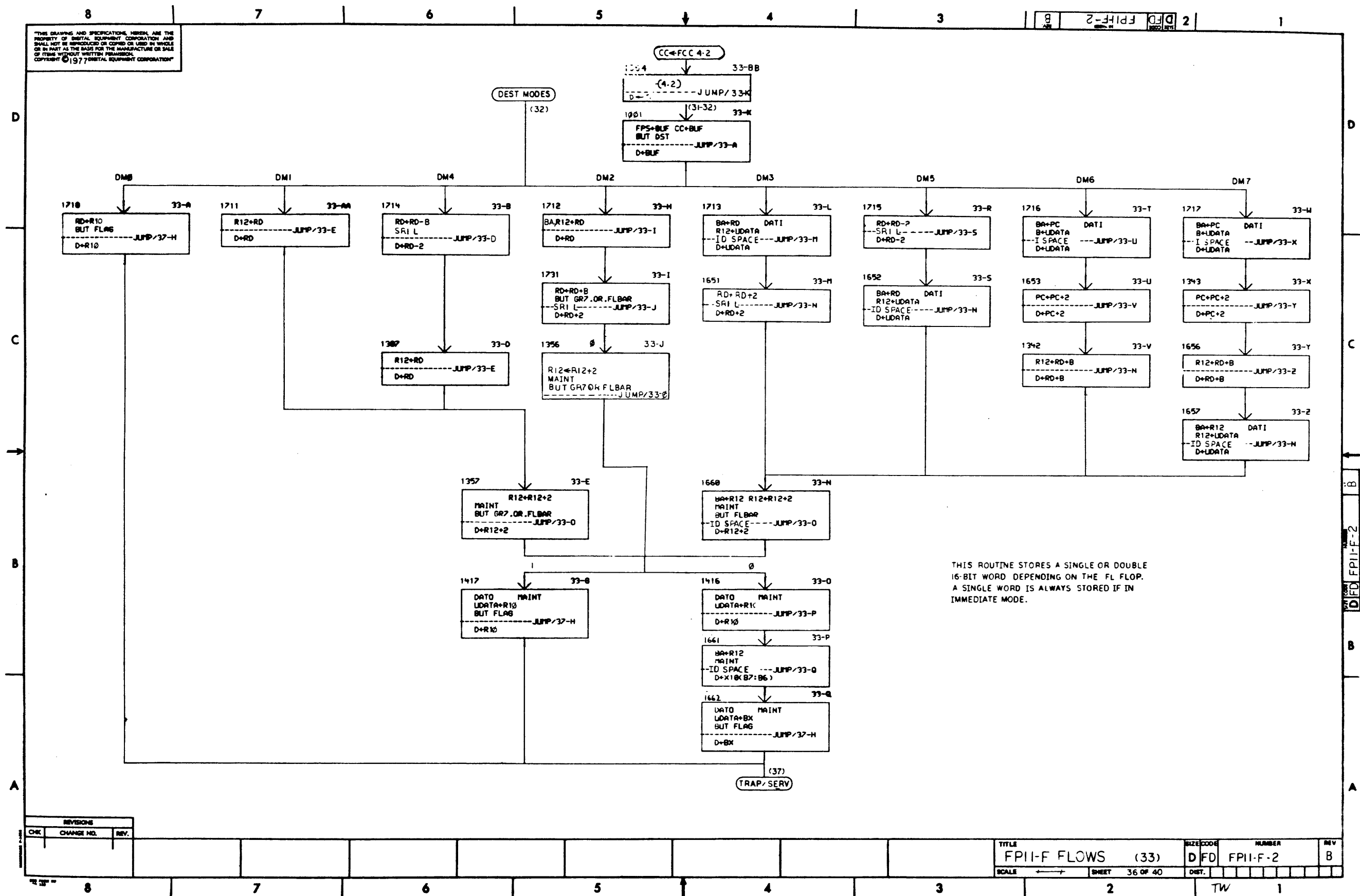
TITLE FPII-F FLOWS (31)		SIZE CODE D FD	NUMBER FPII-F-2		REV. B
SCALE ← →	SHEET 34 OF 40	DIST.			

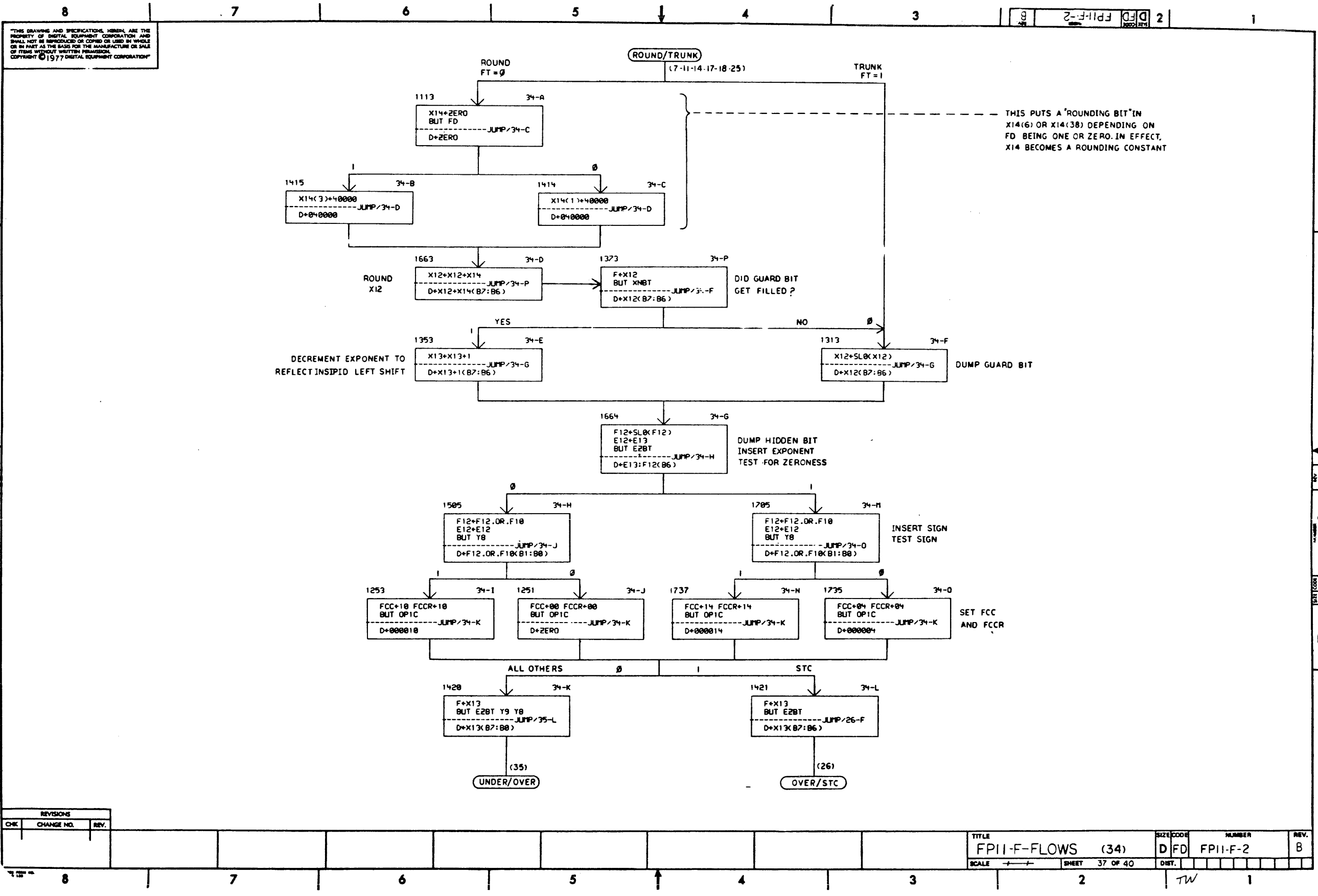
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UPON ENTERING THIS ROUTINE, THE INTEGER IS IN B AND BX, R17 CONTAINS ZERO. THE INTEGER IS COMPLEMENTED (IF NECESSARY) AND STORED IN R17 AND BX.



REVISIONS		
CHK	CHANGE NO.	REV.

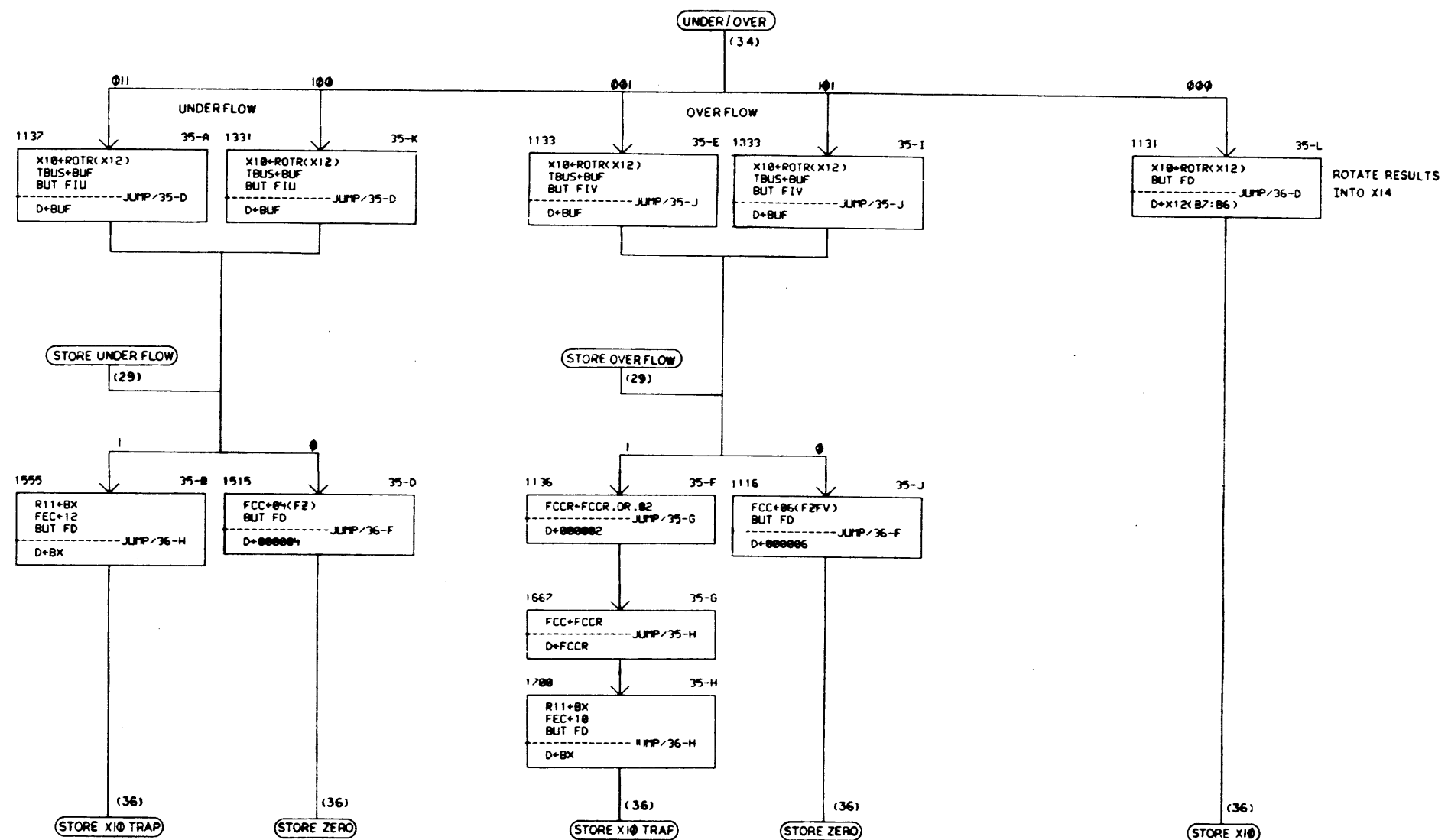




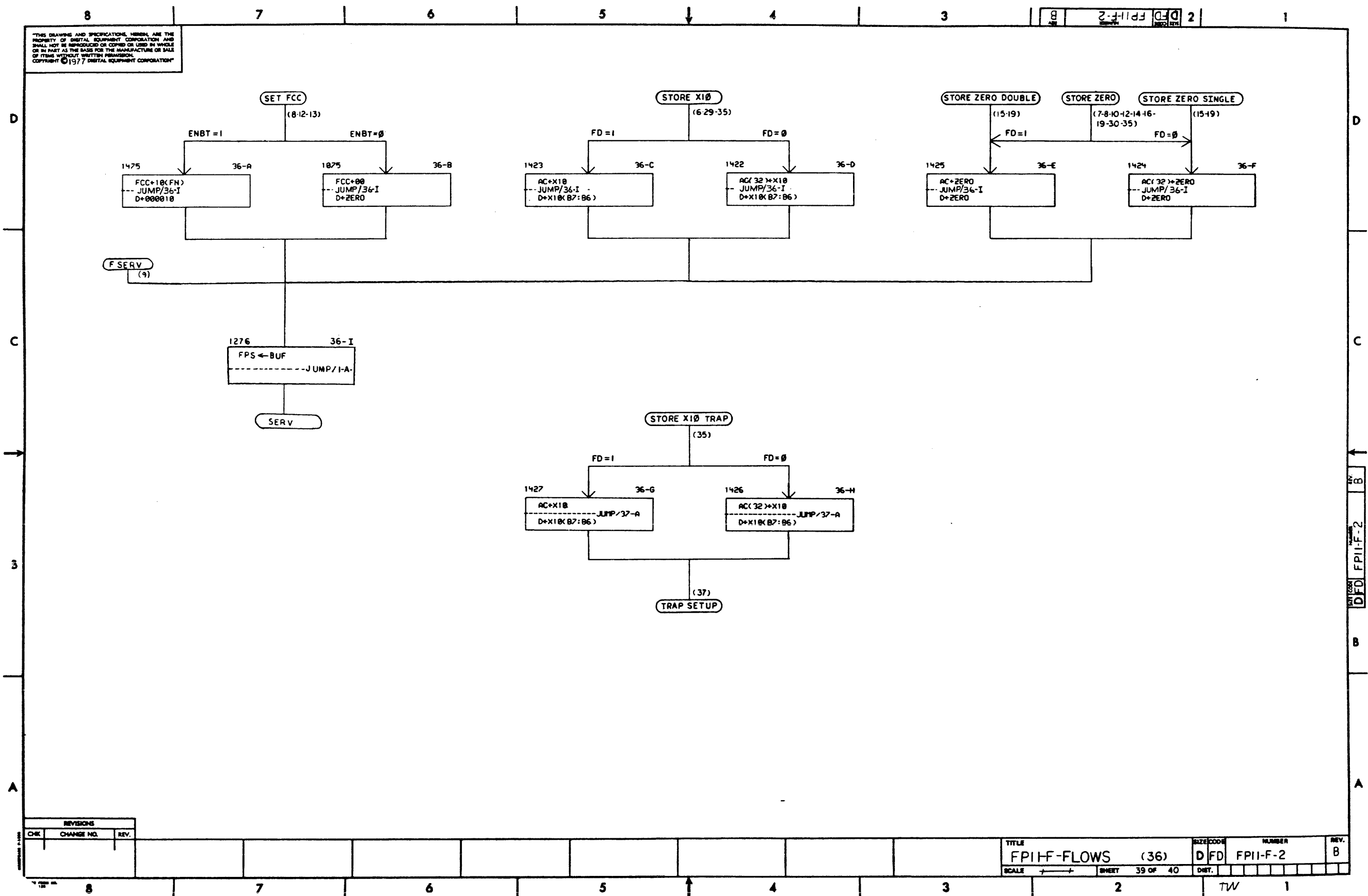
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
FPII-F-FLOWS (34)		D FD	FPII-F-2	B
SCALE	SHEET	DIST.		
	37 OF 40			

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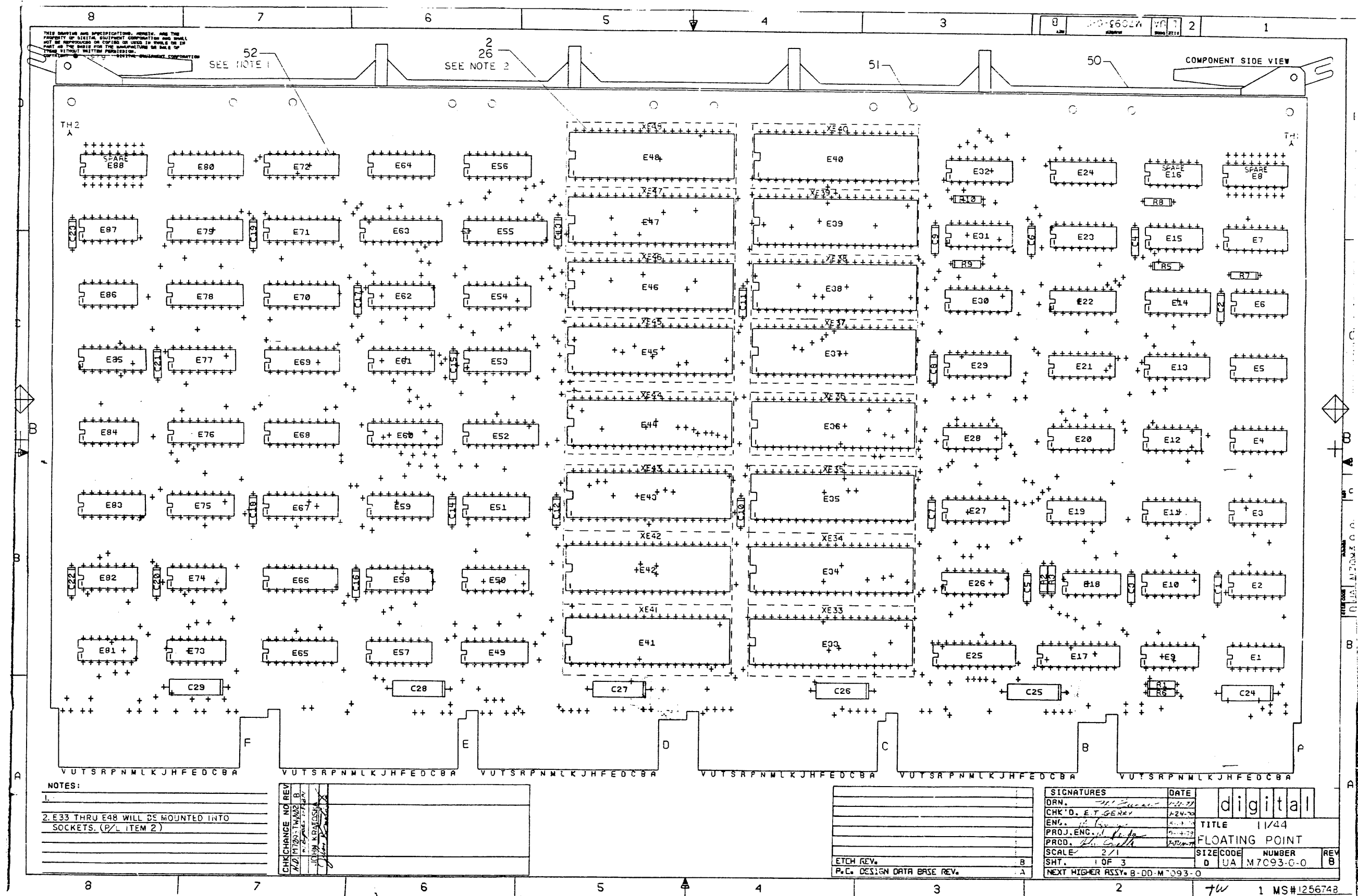


REVISIONS		
CHK	CHANGE NO.	REV.





TITLE FPII-F-FLOWS (37)		SIZE/DATE D F D	NUMBER FPII-F-2	REV. B
SCALE → ←	SHEET 40 OF 40	DIST.		
2		TW	1	



SHEET A1 OF A2

REFERENCE DESIGNATOR

CONT

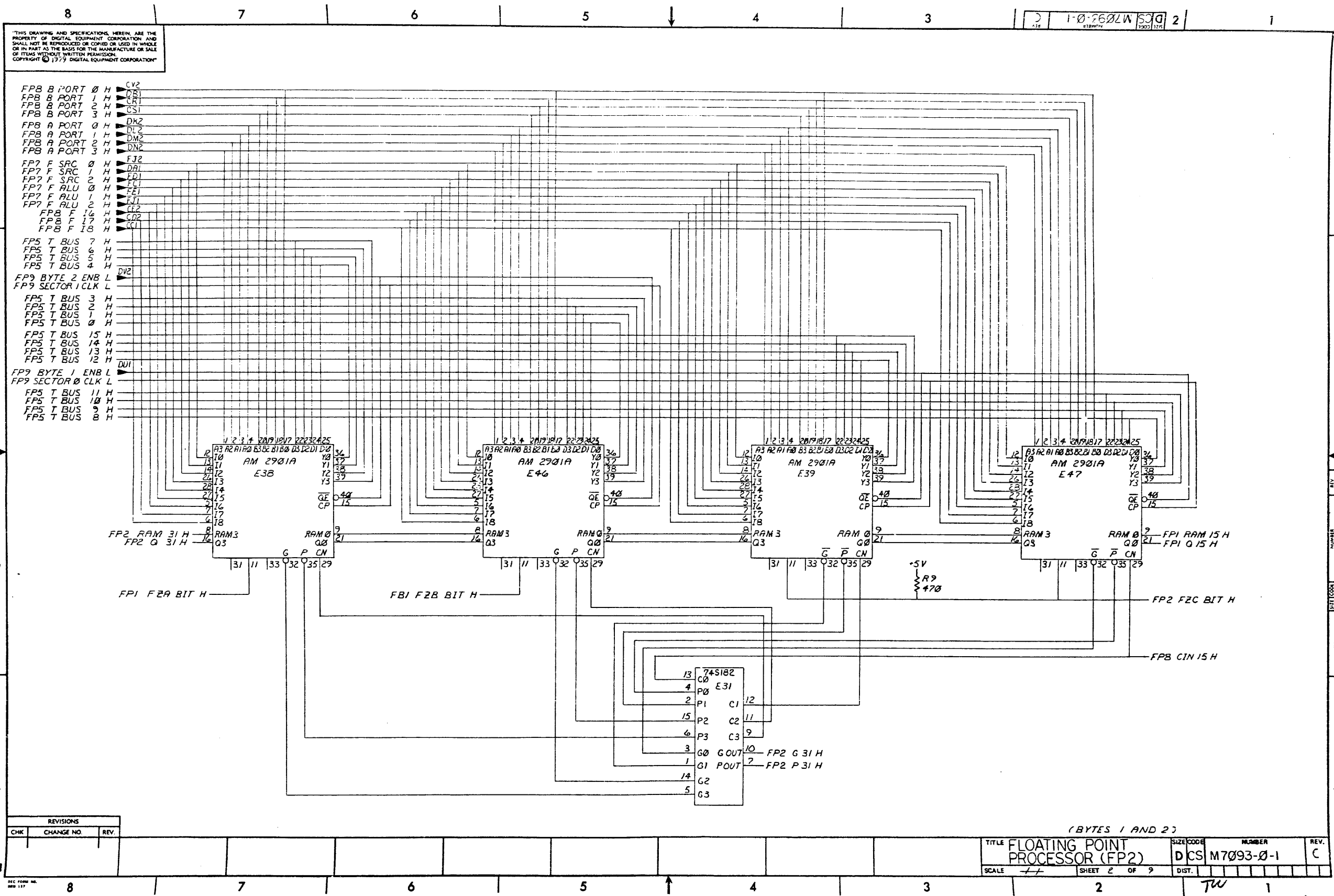
REVISION HISTORY			BASIC PART NO: M7093		DRN: M.FUNARO		DATE: 22-JAN-79		DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A						PARTS LIST			
---	INIT	A	SECTION VARIATION INDEX		CHK'D: E.T.GERRY		DATE: 6-JUN-79		11/44 FLOATING POINT OPTION			
---	INIT	A	[A] 00									
MR	M7093 TWO01	B	[B]		DES.ENG: M.RENDA		DATE: 6-JUN-79					
JK	M7093-TWO02	C	[C]									
			[D]									
			[E]		RESP.ENG.: M.RENDA		DATE: 6-JUN-79		DOCUMENT NUMBER			
			[F]									
			[H]									
			[J]		MFG.ENG.: J.COMELLA		DATE: 6-JUN-79		K PL		M7093-0-DBP	
			[K]									
			[L]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:				FILE NAME:	
			[M]		D-UA-M7093-0-0						20395.PLS	
			[N]								EDIT #	
											14	

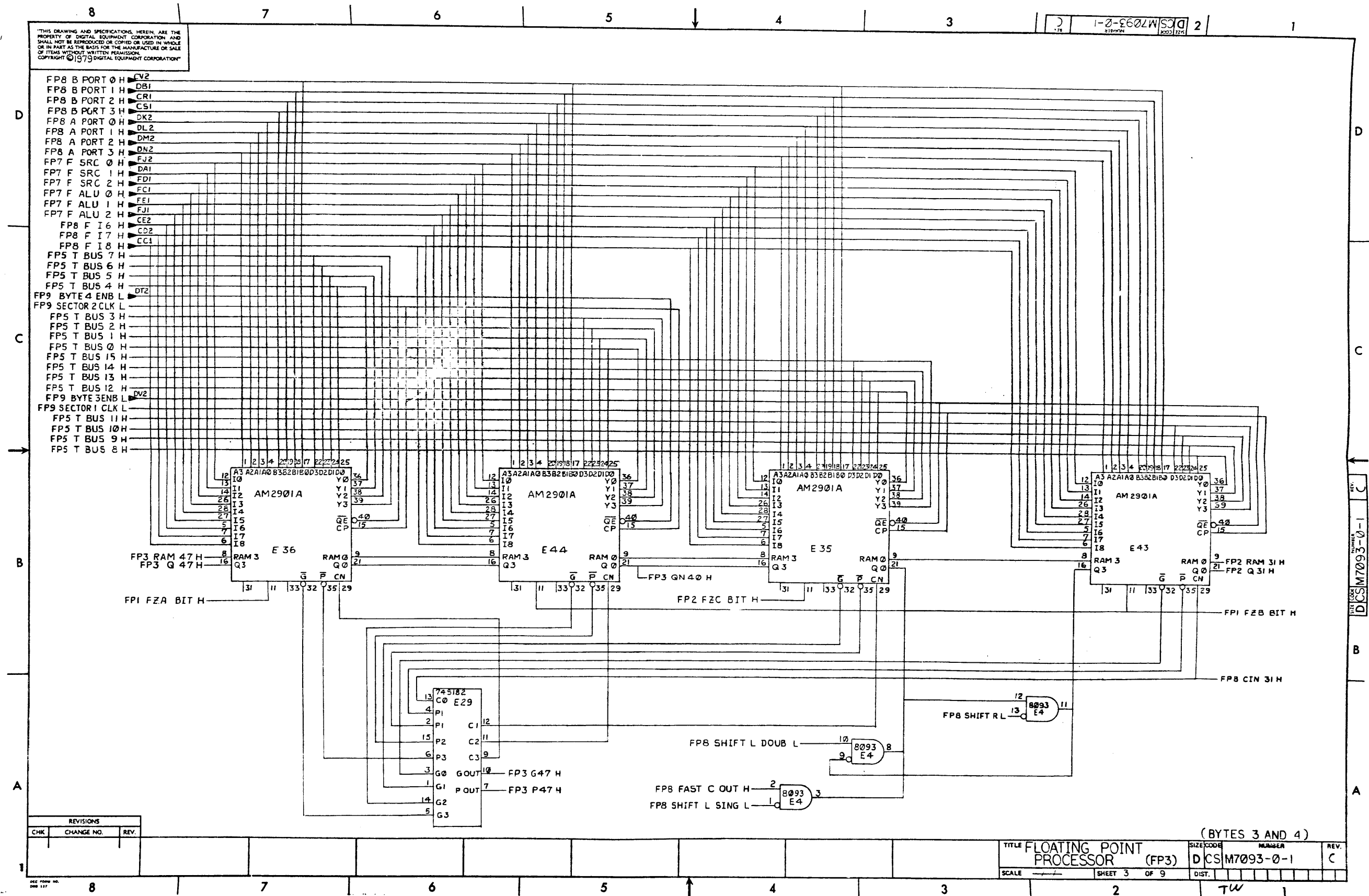
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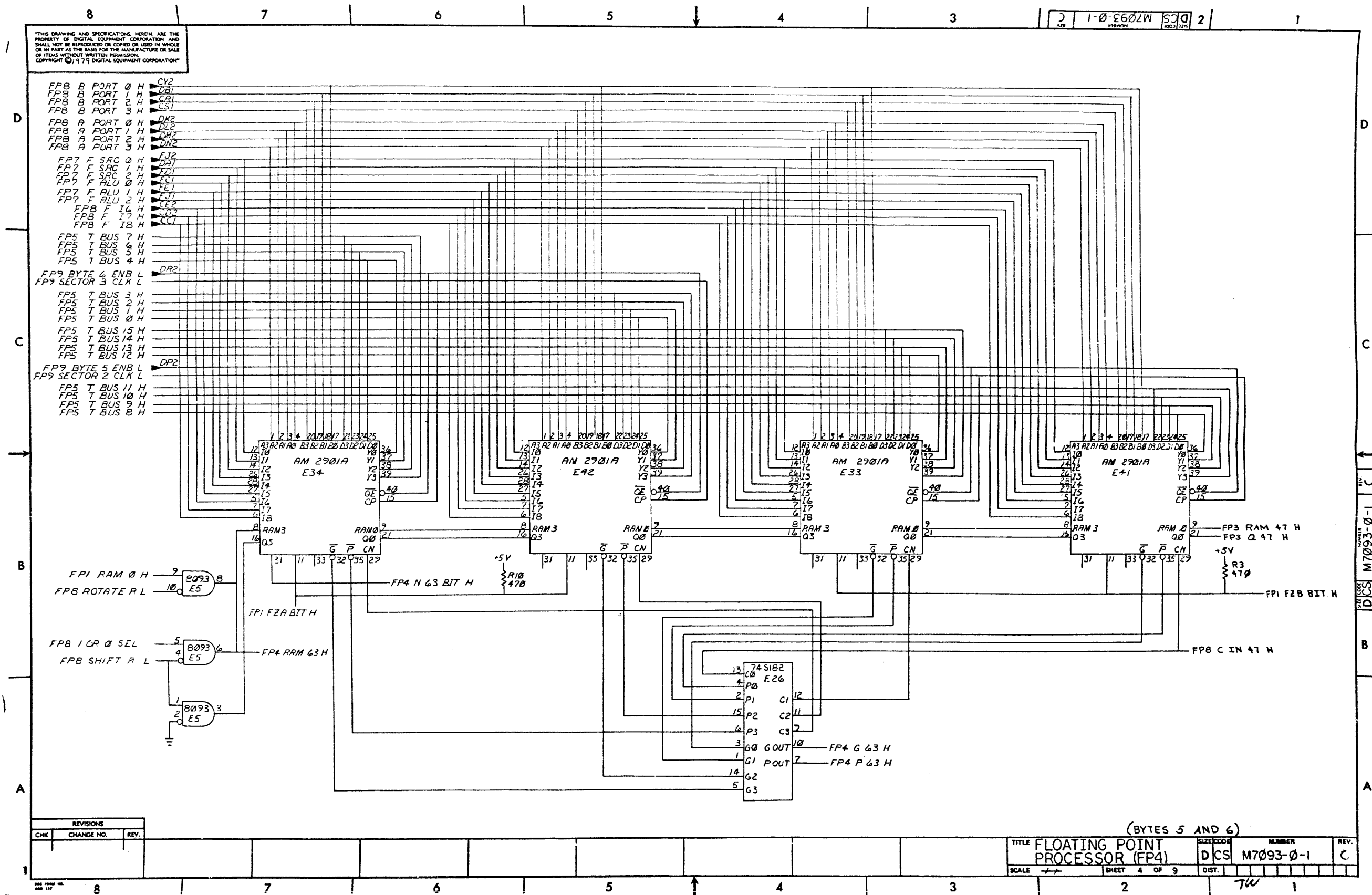
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		23155A1-00	A1-07	1	E14
31	31		23156A1-00	A1-07	1	E49
32	32		23157A1-00	A1-07	1	E20
33	33		23158A1-00	A1-07	1	E13
34	34		23014F1-00	F1-02	1	E52
35	35		23015F1-00	F1-02	1	E60
36	36		23432F1-00	F1-01	1	E78
37	37		23433F1-00	F1-01	1	E71
38	38		23434F1-00	F1-01	1	E69
39	39		23435F1-00	F1-01	1	E70
40	40		23436F1-00	F1-01	1	E72
41	41		23437F1-00	F1-01	1	E80
42	42		23438F1-00	F1-01	1	E76
43	43		23439F1-00	F1-01	1	E79
44	44		23440F1-00	F1-01	1	E65
45	45		23441F1-00	F1-01	1	E67
46	46		23442F1-00	F1-01	1	E68
47	47		23443F1-00	F1-01	1	E66
48	48		23010B1-00	B1-01	1	E55
49	49		23011B1-00	B1-01	1	E63
50	50		1210711-02	/REPLACED BY 12-16988-02	1	
51	51		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
52	52	BLANK		*** THIS ITEM IS NOT USED ***	-	
53	53		1911330-00	74173 FF-D QUAD, TRISTATE	4	E30, E54, E56, E64

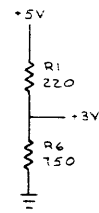
D	I	G	I	T	A	L	TITLE	11/44 FLOATING POINT OPTION	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M7093-D-DBP	C











A2, B2, C2, D2, E2, F2
A1, C1, D1, F1

C1 THRU C23
0.047uf

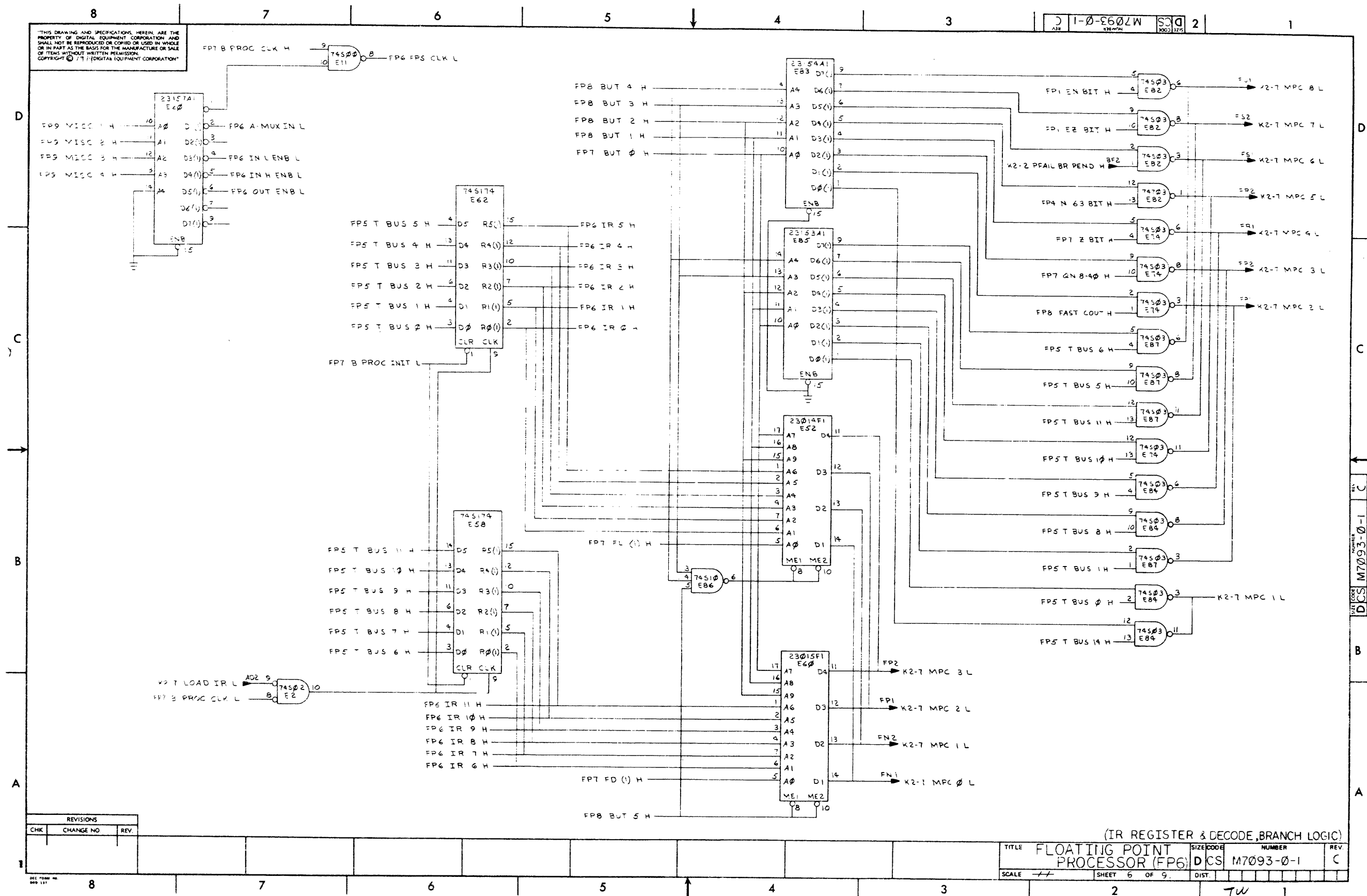
C24 THRU C29
68uf

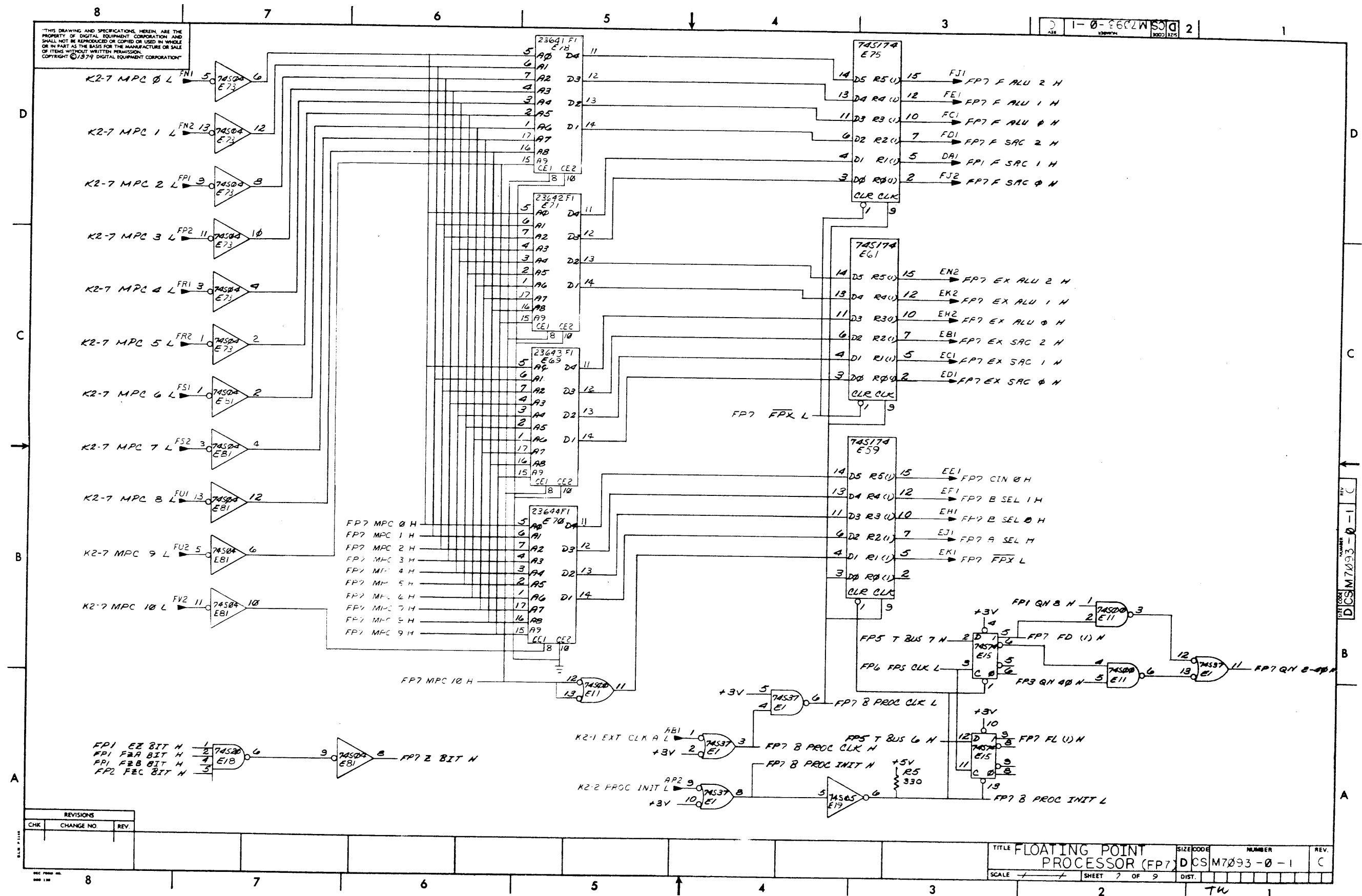
A2, B2, C2, D2, E2, F2
A1, B1, C1, F1

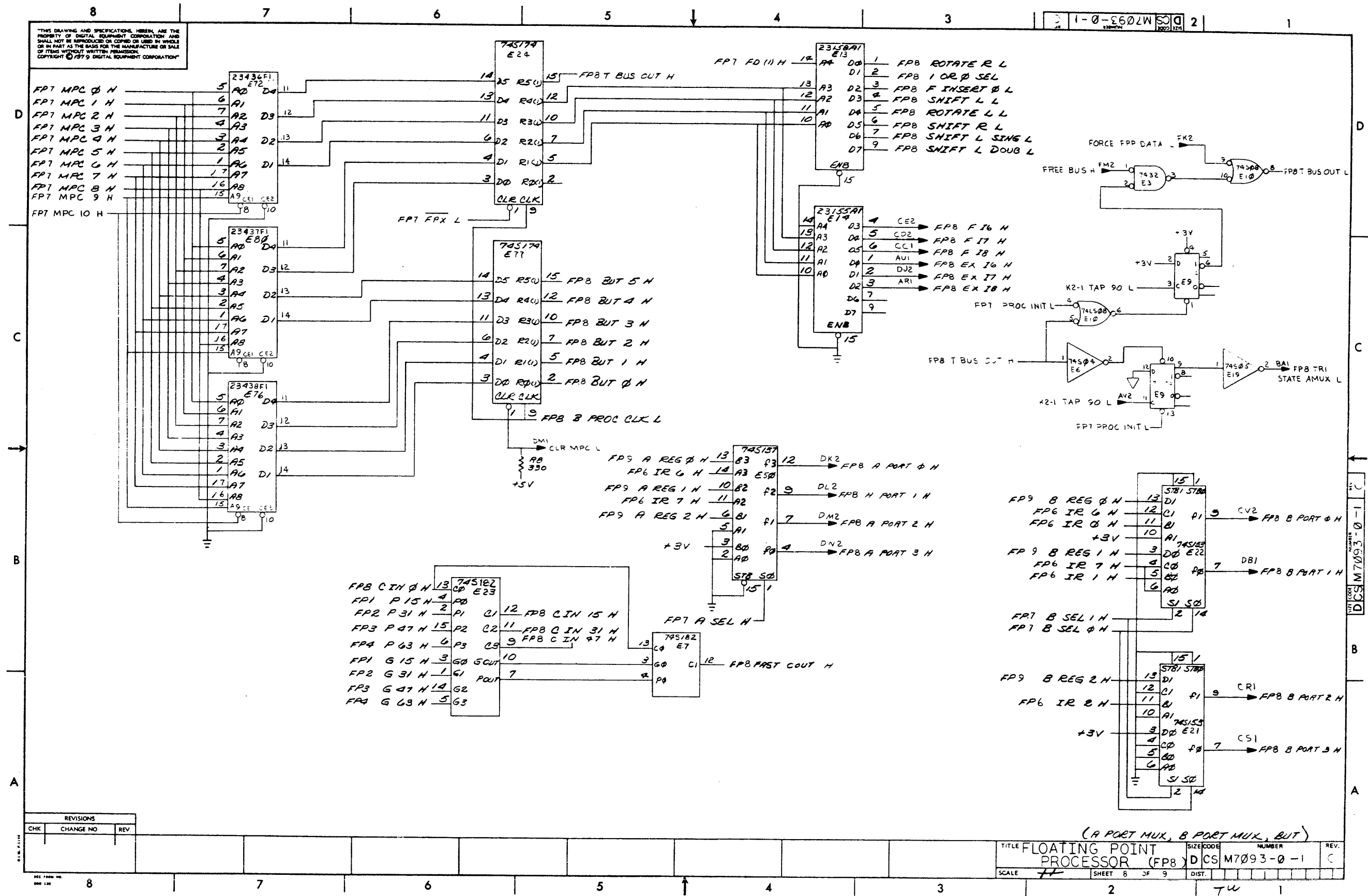
FF2

FF21-F ATTACHED

(BUFFER LOW AND HIGH BYTE)									
TITLE FLOATING POINT PROCESSOR (FP5)				SIZE CODE DCS		NUMBER M7093-0-1		REV. C	
SCALE 1:1		SHEET 5 OF 9		DIST.					







DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:			
MADE BY DATE		CHECKED DATE		SECTION															
ENG DATE		PROD DATE		ISSUED SECTION															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	FP11F													REF DESIGNATION		
1	MP-00810		Field Maintenance Print Set	1															
2	EK-FP11F-TM-001		Floating Point Tech. Manual	1															
3	ZJ-301-FR		Floating Point Diag. (Fiche)	1															
4	ZJ-301-PB		Floating Point Diag. (Papertape)	1															

E.C.O. NO.																
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				SHEET 1 OF 1			INSERTION PARTS LIST DATA BASE REV									

TW