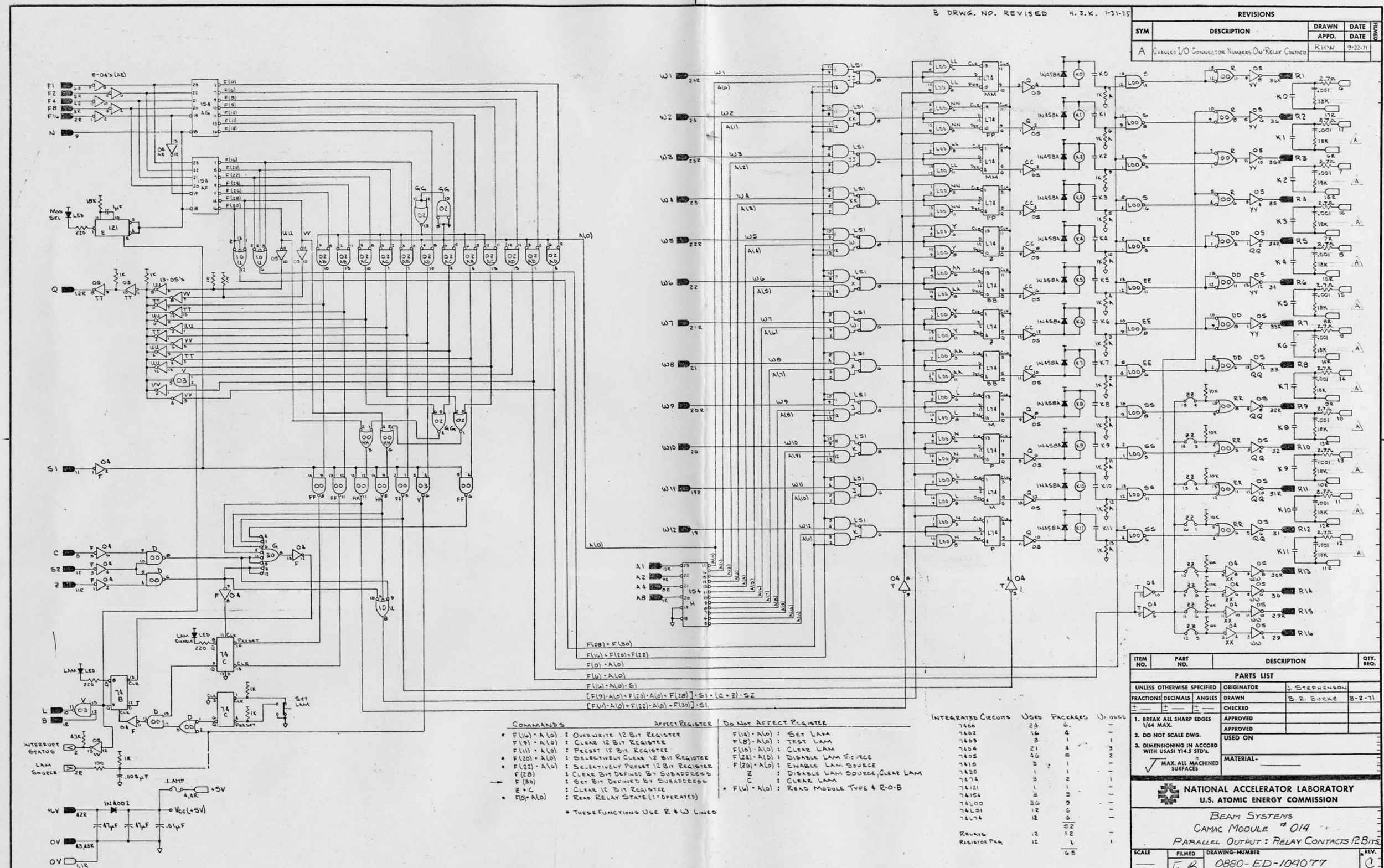
B DRWG. NO. REVISED H.J.K. 1-31-75

REVISIONS				
SYM	DESCRIPTION	DRAWN / APPD.	DATE / DATE	FILMED
A	CHANGED I/O CONNECTOR NUMBERS ON RELAY CONTACTS	RHW	9-22-71	



COMMANDS		AFFECT REGISTER
*	F(16) · A(0)	: OVERWRITE 12 BIT REGISTER
	F(9) · A(0)	: CLEAR 12 BIT REGISTER
	F(11) · A(0)	: PRESET 12 BIT REGISTER
*	F(20) · A(0)	: SELECTIVELY CLEAR 12 BIT REGISTER
*	F(22) · A(0)	: SELECTIVELY PRESET 12 BIT REGISTER
	F(28)	: CLEAR BIT DEFINED BY SUBADDRESS
→	F(30)	: SET BIT DEFINED BY SUBADDRESS
	Z + C	: CLEAR 12 BIT REGISTER
*	F(0) · A(0)	: READ RELAY STATE (1 = OPERATED)

DO NOT AFFECT REGISTER	
F(18) · A(0)	: SET LAM
F(8) · A(0)	: TEST LAM
F(10) · A(0)	: CLEAR LAM
F(28) · A(0)	: DISABLE LAM SOURCE
F(26) · A(0)	: ENABLE LAM SOURCE
Z	: DISABLE LAM SOURCE, CLEAR LAM
C	: CLEAR LAM
* F(6) · A(0)	: READ MODULE TYPE & R-O-B

* THESE FUNCTIONS USE R & W LINES

INTEGRATED CIRCUITS	USED	PACKAGES	UNUSED
7400	24	6	–
7402	16	4	–
7403	3	1	1
7404	21	4	3
7405	46	8	2
7410	3	1	–
7430	1	1	–
7474	3	2	1
74121	1	1	–
74154	3	3	–
74LOO	36	9	–
74LS1	12	6	–
74L74	12	6	–
		52	
RELAYS	12	12	–
RESISTOR PKG	12	1	1
		65	

ITEM NO.	PART NO.	DESCRIPTION	QTY. REQ.

PARTS LIST

UNLESS OTHERWISE SPECIFIED					
FRACTIONS	DECIMALS	ANGLES	ORIGINATOR	J. STEPHENSON	
± —	± —	± —	DRAWN	B. R. BURKE	8-2-71
			CHECKED		
1. BREAK ALL SHARP EDGES 1/64 MAX.			APPROVED		
2. DO NOT SCALE DWG.			APPROVED		
3. DIMENSIONING IN ACCORD WITH USASI Y14.5 STD's.			USED ON		
√ MAX. ALL MACHINED SURFACES			MATERIAL-		

NATIONAL ACCELERATOR LABORATORY
U.S. ATOMIC ENERGY COMMISSION

BEAM SYSTEMS
CAMAC MODULE # 014
PARALLEL OUTPUT : RELAY CONTACTS 12 BITS

SCALE	FILMED	DRAWING-NUMBER	REV.
—	E B	0880-ED-104077	C

BRUNING 40-107 —