

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1
 CLEAR STORAGE 2 L068116,105106,110117B101/I9Z=071029C029056B026/B001/0991,001/001117I0+ 2
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

Modified GENERAL PURPOSE INCREMENTAL PLOTTING -- J BRESENHAM PLOTS PAGE 1
to prepare special plot tapes if F-up-

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	000	JOB	GENERAL PURPOSE INCREMENTAL PLOTTING -- J BRESENHAM						
102	JJ	23		CTL	4401 1						
103	1	03		ORG	351				0351		
104	1	04	*		MONITER TAPE HOUSEKEEPING						
105	1	05	TITLE	DCW	'PROG = 4, PLOT'	14		0364			4
106	1	06	GMWM	DCW	' '	1		0365			4
107	1	07	BEGIN	NR (UI	OPTION TO REWIND MONITER TAPE =1	5		0366	N (UI R		4
108	1	09		H		1		0371	.		4
109	1	10	*		INITIALIZATION						
110	1	11		ZA	LIMXL,XPR .LIMXL IS LLIMX-100,NOTE LLIMX(-)	7		0372	+ P58 +82		4
111	1	12		ZA	'1',FILECT=2	7		0379	+ 10T 10V		4
112	1	13		ZA	'0',YMAX=6	7		0386	+ 10W 11S		5
113	1	14		ZS	'0',YMIN=6	7		0393	- 10W 11Y		5
114	1	15		ZA	'0',XMAX=6	7		0400	+ 10W 12U		5
115	1	16		ZS	'0',XMIN=6	7		0407	- 10W 13#		5
116	1	17		ZA	'0',XPR	7		0414	+ 10W +82		5
117	1	18		ZA	'0',YPR	7		0421	+ 10W +76		6
118	1	19		ZS	'0',LLIMY	7		0428	- 10W P40		6
119	1	20		SW	IX1-2,IX2-2 SET WORD MARKS IN INDEX REGISTERS	7		0435	, 087 092		6
120	1	21		SW	IX3-2 FOR ADDITION AND COMPARE STOPS	4		0442	, 097		6
121	JJ	09		SBR	JCOUNT,0	7		0446	H 19/ 000		6
122	JJ	10		SW	JNEW	4		0453	, 04/		6
123	1	22	*		READ CONTROL CARD						
124	1	23	RETURN	CS	80	4		0457	/ 080		7
125	1	24		SW	1	4		0461	, 001		7
126	1	25		BIN	EUP,A	5		0465	B F32 A		7
127	1	26		R	READ CONTROL CARD	1		0470	1		7
128	1	27		C	9,'STOP PLOT'	7		0471	C 009 13Z		7
129	1	28		BE	EUP	5		0478	B F32 S		7
130	1	29		B	RAISE	4		0483	B D28		7
131	1	30		LCA	GMWM,81	7		0487	L 365 081		8
132	1	31		MCM	1,CTLCD	7		0494	P 001 #54		8
133	JJ	01		BSS	JTITL,F GO WRITE TITLE ON TAPE	5		0501	B 05T F		8
134	1	32	*		LISTING REQUESTED +						
135	1	34		BCE	PRTID,LIST,2	8		0506	B /35 #99 2		8
136	1	33		BCE	PRTID,LIST,1	8		0514	B /35 #99 1		8
137	1	35		BCE	PRTID,LIST,3	8		0522	B /35 #99 3		9
138	1	36		BCE	PRTID,LIST,4	8		0530	B /35 #99 4		9
139	1	37		LCA	'N',GOLIST	7		0538	L 14# V29		9
140	1	38		BIN	PRTID+7,C	5		0545	B /42 C		9
141	1	39	SETUP	ZA	+0,LILH	7		0550	+ 14/ 16T		9
142	1	40		ZA	+0,LILD	7		0557	+ 14/ 16W		10
143	1	41	*		DETERMINE Y ZERO LOCATION						
144	1	42		S	LLIMY,YPR	7		0564	S P40 +76		10
145	1	43		A	'0',ORN	7		0571	A 10W #65		10
146	1	44		ZA	ORN	4		0578	+ #65		10
147	1	45		MZ	'A',ORN	7		0582	Y 14S #65		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	46		C	+1000,ORN	7		0589	C 14W #65		10
149	1	47		BH	CTLERR	5		0596	B S05 U		11
150	1	48		ZS	ORN,LLIMY	7		0601	- #65 P40		11
151	1	49		ZA	+1000,ULIMY	7		0608	+ 14W P34		11
152	1	50		S	ORN,ULIMY	7		0615	S #65 P34		11
153	1	51		A	LLIMY,YPR	7		0622	A P40 +76		11
154	1	52	*		DETERMINE TYPE OF PLOT						
155	1	53		MN	'9',TSTPEN+7 TO SAVE TIME LATER	7		0629	D 14X U87		12
156	1	54		MCW	'N',BHISTG	7		0636	M 14# U68		12
157	1	55		BCE	TSTB1,TYPE,P	8		0643	B 666 #54 P		12
158	1	56		BCE	HISTGB,TYPE,H	8		0651	B S75 #54 H		12
159	1	57	ZROPEN	MN	'0',TSTPEN+7 TO SAVE TIME LATER	7		0659	D 10W U87		12
160	1	58	*		NEW X AXIS REQUESTED +						
161	1	59	TSTB1	BIN	XLOC,B	5		0666	B 740 B		13
162	1	60		BCE	XLOC,NOTNEW,*	8		0671	B 740 #55 *		13
163	1	62		MCW	+00,XMAX	7		0679	M 14Z 12U		13
164	1	63		S	XMAX,XPR	7		0686	S 12U +82		13
165	1	64	CKNEG	BCE	NONEG,NEGVAL,	8		0693	B /75 #57		13
166	1	65		A	LIMXL,XPR	7		0701	A P58 +82		14
167	1	66		ZA	+00,XMAX	7		0708	+ 14Z 12U		14
168	1	67		ZS	+00,XMIN	7		0715	- 14Z 13#		14
169	1	68		ZA	+00,YMAX	7		0722	+ 14Z 11S		14
170	1	69		ZS	+00,YMIN	7		0729	- 14Z 11Y		14
171	JJ	11		SW	JNEW	4		0736	, 04/		14
172	1	70	*		MODIFY X,Y LOCATION FOR FUTURE INDEXING						
173	1	71	XLOC	A	'I9I',XVAL	7		0740	A 15S #69		15
174	1	72		BM	XPOWN,XPOW-2	8		0747	V S86 #73 K		15
175	1	73		MZ	'A',XPOW	7		0755	Y 14S #75		15
176	1	74		BCE	XSCLB,XSCL,	8		0762	B S97 #71		15
177	1	75	YLOC	A	'I9I',YVAL	7		0770	A 15S #79		15
178	1	76		BM	YPOWN,YPOW-2	8		0777	V T08 #83 K		16
179	1	77		MZ	'A',YPOW	7		0785	Y 14S #85		16
180	1	78		BCE	YSCLB,YSCL,	8		0792	B T19 #81		16
181	1	79	*		HEADINGS USED +						
182	1	80	SETHED	BCE	NOHED,BIGH,	8		0800	B T30 #87		16
183	1	81		BCE	NOHED,BIGH,0	8		0808	B T30 #87 0		16
184	1	82		MZ	'A',BIGH	7		0816	Y 14S #87		17
185	1	83		MZ	'A',BIGD	7		0823	Y 14S #91		17
186	1	84	*		DETERMINE MARKER SYMBOL						
187	1	85	SETMKR	BCE	NOMKR,MKR,	8		0830	B T48 #93		17
188	JJ	22		BSS	NOMKR,F	5		0838	B T48 F		17
189	1	86	SQ	SBR	SETFIG+6,SQ1-47	7		0843	H 954 B26		17
190	1	87		BCE	SETFIG,MKR,)	8		0850	B 948 #93)		18
191	1	88	ASTRK	SBR	SETFIG+6,ASTRK1-44	7		0858	H 954 B80		18
192	1	89		BCE	SETFIG,MKR,*	8		0865	B 948 #93 *		18
193	1	90	DDIA	SBR	SETFIG+6,DDIA1-24 B ADDR GOES TO SETFIG B ADDR	7		0873	H 954 A66		18
194	1	91		BCE	SETFIG,MKR,=	8		0880	B 948 #93 =		18
195	1	92	DIA	SBR	SETFIG+6,DIA1-32	7		0888	H 954 A92		19
196	1	93		BCE	SETFIG,MKR,-	8		0895	B 948 #93 -		19
197	1	94	STAR	SBR	SETFIG+6,STAR1-40	7		0903	H 954 C86		19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	95		BCE	SETFIG,MKR,.	8		0910	B 948 #93 .		19
199	1	96	CROSS	SBR	SETFIG+6,CROSS1-20	7		0918	H 954 C54		19
200	1	97		BCE	SETFIG,MKR,\$	8		0925	B 948 #93 \$		20
201	1	98	QUICK	SBR	SETFIG+6,QUICK1-8	7		0933	H 954 C76		20
202	1	99		BCE	SETFIG,MKR,+	8		0940	B 948 #93 +		20
203	2	00	SETFIG	SBR	FIGURE+17,0	7		0948	H A32 000		20
204	2	01		SBR	FIGURE+25	4		0955	H A40		20
205	2	02		SBR	FIGURE+45	4		0959	H A60		20
206	2	03		MA	'001',FIGURE+45	7		0963	= 15V A60		21
207	2	04		MCW	'B',TSTPEN-4	7		0970	M 15W U76		21
208	2	05	*		TAPE OR CARD INPUT +						
209	2	06	SETINP	BCE	CINPUT,IPUT,C	8		0977	B T59 #95 C		21
210	2	07		LCA	TINST1+7,READIT+7	7		0985	L Y42 V15		21
211	2	08		A	+00,FILENO	7		0992	A 14Z #97		21
212	2	09		MZ	'A',FILENO	7		0999	Y 14S #97		22
213	2	10		C	+00,FILENO	7		1006	C 14Z #97		22
214	2	11		BE	FORCE1	5		1013	B S17 S		22
215	2	12	*		TAPE INPUT -- SEARCH FOR TAPE FILE						
216	2	13	TSTFL	C	FILECT,FILENO	7		1018	C 10V #97		22
217	2	14		BH	SKPFWD	5		1025	B S28 U		22
218	2	15		BL	SKPBCK	5		1030	B S59 T		22
219	2	16		A	'1',FILECT	7		1035	A 10T 10V		23
220	2	17	*		TYPE CONTROL CARD ID THEN START PLOTTING						
221	JJ		TYPEID	NOP	0,0,S	8		1042	N 000 000 S		23
222	2	19		B	MAIN	4		1050	B T74		23
223	2	20	*								
224	2	21	*		CONTROL CARD STORAGE						
225	2	22	CTLCD	DA	1X80,G			1054	1133		23
226	2	23	TYPE		1,1 1			1054		FIELD	23
227	2	24	NOTNEW		2,2			1055		FIELD	23
228	2	25	FMATX		3,3 1			1056		FIELD	23
229	2	26	NEGVAL		4,4			1057		FIELD	24
230	2	27	FMATY		5,5 1			1058		FIELD	24
231	2	28	AXIS		7,7 1			1060		FIELD	24
232	2	29	ORN		9,12 4			1065		FIELD	24
233	2	30	XVAL		14,16 3			1069		FIELD	24
234	2	31	XSCL		18,18 1			1071		FIELD	24
235	2	32	XPOW		21,22 2			1075		FIELD	25
236	2	33	YVAL		24,26 3			1079		FIELD	25
237	2	34	YSCL		28,28 1			1081		FIELD	25
238	2	35	YPOW		31,32 2			1085		FIELD	25
239	2	36	BIGH		34,34			1087		FIELD	25
240	2	37	BIGD		36,38			1091		FIELD	25
241	2	38	MKR		40,40 1			1093		FIELD	26
242	2	39	IPUT		42,42 1			1095		FIELD	26
243	2	40	FILENO		43,44			1097		FIELD	26
244	2	41	LIST		46,46			1099		FIELD	26
245	2	42	PENCTL		48,48			1101		FIELD	26
246	2	43	ID		61,80			1133		FIELD	26
			DCW		' '	1		1134		GMARK	27

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
247	2	44	PRTID	LCA	'B',GOLIST	7		1135	L 15W V29		27
248	2	45		CC	1	2		1142	F 1		27
249	2	46		CS	332	4		1144	/ 332		27
250	2	47		CS		1		1148	/		27
251	2	48		SW	201	4		1149	, 201		27
252	2	49		MCW	80,280	7		1153	M 080 280		27
253	2	50		W		1		1160	2		28
254	2	51		CCB	SETUP,1	5		1161	F 550 1		28
255	2	52	NEWAX	DCW	'NEW AXIS'	8		1173			28
256	2	53		DCW	' '	1		1174			28
257	2	54	NONEG	A	-300,XPR	7		1175	A 15Z +82		28
258	2	55		B	CKNEG+15	4		1182	B 708		28
259	2	56	ERRCTL	DCW	'CONTROL CARD ERROR'	18		1203			29
260	2	57		DCW	' '	1		1204			29
261	JJ		CTLERR	NOP	0,0,S	8		1205	N 000 000 S		29
262	2	59		H	RETURN	4		1213	. 457		29
263	2	60	FORCE1	A	'1',FILENO	7		1217	A 10T #97		29
264	2	61		B	TSTFL	4		1224	B #18		30
265	2	62	SKPFWD	RT	TAPE,RECORD	8		1228	M (U2 201 R		30
266	2	63		BCE	SKPADD,RECORD, END OF FILE	8		1236	B S48 201		30
267	2	64		B	SKPFWD	4		1244	B S28		30
268	2	65	SKPADD	A	'1',FILECT	7		1248	A 10T 10V		30
269	2	66		B	TSTFL	4		1255	B #18		30
270	2	67	SKPBCK	RWD	TAPE	5		1259	U (U2 R		31
271	2	68		ZA	'1',FILECT	7		1264	+ 10T 10V		31
272	2	69		B	TSTFL	4		1271	B #18		31
273	2	70	HISTGB	MCW	'B',BHISTG	7		1275	M 15W U68		31
274	2	71		B	ZROPEN	4		1282	B 659		31
275	2	72	XPOWN	MZ	'N',XPOW	7		1286	Y 14# #75		31
276	2	73		B	YLOC-8	4		1293	B 762		31
277	2	74	XSCLB	MCW	'A',XSCL	7		1297	M 14S #71		32
278	2	75		B	YLOC	4		1304	B 770		32
279	2	76	YPOWN	MZ	'N',YPOW	7		1308	Y 14# #85		32
280	2	77		B	SETHED-8	4		1315	B 792		32
281	2	78	YSCLB	MCW	'A',YSCL	7		1319	M 14S #81		32
282	2	79		B	SETHED	4		1326	B 800		32
283	2	80	NOHED	ZA	'0',BIGH	7		1330	+ 10W #87		33
284	2	81		MCW	'===',BIGD	7		1337	M 16S #91		33
285	2	82		B	SETMKR	4		1344	B 830		33
286	2	83	NOMKR	MCW	'N',TSTPEN-4	7		1348	M 14# U76		33
287	2	84		B	SETINP	4		1355	B 977		33
288	2	85	CINPUT	LCA	CINST2+6,READIT+7 SET UP CARD INPUT READ INSTR	7		1359	L Y49 V15		33
289	2	86		LCA	CINST1 B ADDR IS READIT	4		1366	L Y50		34
290	2	87		B	TYPEID	4		1370	B #42		34
291	2	88	*		MAIN CONTROL PROGRAM TO CALL SUBROUTINES						
292	2	89	MAIN	B	ROTAPE READ RECORD	4		1374	B U99		34
293	2	90		MCW	XVAL,RMOST	7		1378	M #69 M60		34
294	2	91		ZA	XSCL,SCALE	7		1385	+ #71 M48		34
295	2	92		MCW	XPOW,SCLPR	7		1392	M #75 M57		34
296	2	93		MCW	FMATX,FORM	7		1399	M #56 M61		35

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
297	2	94		B	DECODE				DECODE + SCALE X		35
298	2	95		ZA	ANS,XTRGT	4		1406	B Y51		35
299	2	96		MCW	YVAL,RMOST	7		1410	+ M76 +58		35
300	2	97		ZA	YSCL,SCALE	7		1417	M #79 M60		35
301	2	98		MCW	YPOW,SCLPR	7		1424	+ #81 M48		35
302	2	99		MCW	FMATY,FORM	7		1431	M #85 M57		35
303	3	00		B	DECODE	7		1438	M #58 M61		36
304	3	01		ZA	ANS,YTRGT	4		1445	B Y51		36
305	3	02		B	CMPRXY	7		1449	+ M76 +52		36
306	3	03		BCE	RECPEN,PENCTL,*	4		1456	B M90		36
307	3	04	BHISTG	NOP	HISTG	8		1460	B D60 /01 *		36
308	3	05		B	TRAVEL	4		1468	N G08		36
309	3	06		B	FIGURE	4		1472	B P59		36
310	3	07	TSTPEN	BCE	MAIN,PEN,	4		1476	B A15		37
311	3	08		MN	TSTPEN+7,PEN	8		1480	B T74 D58		37
312	3	10		B	MAIN	7		1488	D U87 D58		37
313	3	11	*		READ TAPE OR CARD INPUT RECORD	4		1495	B T74		37
314	3	12	RDTAPE	SBR	EXITRT+3						
315	3	13	READ	CS	332	4		1499	H V91		37
316	3	14		CS		4		1503	/ 332		37
317	3	15	READIT	RT	TAPE,RECORD IF CARD INPUT * 1 M 080 RECORD+79 *	1		1507	/		37
318	3	16		BCE	EOR,RECORD, TAPE MARK+	8		1508	M (U2 201 R		38
319	3	17		BIN	LISTIT,C	8		1516	B E04 201		38
320	3	18	GOLIST	NOP	LISTIT	5		1524	B V92 C		38
321	3	19	TESTH	C	BIGH,LILH=1	4		1529	N V92		38
322	3	20		BU	ADDLH READ A HEADING RECORD	7		1533	C #87 16T		38
323	3	21		C	BIGD,LILD=3	5		1540	B V65 /		38
324	3	22		BU	ADDLD READ A DATA RECORD	7		1545	C #91 16W		39
325	3	23		S	LILH BIGH MUST HAVE SIGN	5		1552	B V76 /		39
326	3	24		S	LILD BIGD MUST HAVE SIGN	4		1557	S 16T		39
327	3	25	ADDLH	A	+1,LILH	4		1561	S 16W		39
328	3	26		B	READ	7		1565	A 16X 16T		39
329	3	27	ADDLD	BER	ERR	4		1572	B V03		39
330	3	28		A	+1,LILD	5		1576	B X01 L		39
331	3	29	EXITRT	B	0 O DUMMY	7		1581	A 16X 16W		40
332	3	30	*		LISTING ROUTINE	4		1588	B 000		40
333	3	31	LISTIT	BER	ERR						
334	3	32		BCE	CHAR,LIST,4	5		1592	B X01 L		40
335	3	33		BCE	TRIPLE,LIST,3	8		1597	B W31 #99 4		40
336	3	34		BCE	DOUBLE,LIST,2	8		1605	B W91 #99 3		40
337	3	35	PRINT	W		8		1613	B W86 #99 2		41
338	3	36		BCV	SKIPI	1		1621	2		41
339	3	37		B	TESTH	5		1622	B W96 '		41
340	3	38	CHAR	SW	201	4		1627	B V33		41
341	3	39		MCW	201,FORMCL+4	4		1631	, 201		41
342	3	40		MCW	' ',201	7		1635	M 201 W85		41
343	3	41		BCE	DOUBLE,FORMCL+4,0	7		1642	M 16Y 201		41
344	3	42		BCE	TRIPLE,FORMCL+4,-	8		1649	B W86 W85 0		42
345	3	43		BCE	PRINT,FORMCL+4,+	8		1657	B W91 W85 -		42
346	3	44		BCE	PRINT,FORMCL+4,	8		1665	B W21 W85 +		42
						8		1673	B W21 W85		42

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
347	3	45	FORMCL	CCB	PRINT,1						
					1 DUMMY	5		1681	F W21 1		42
348	3	46	DOUBLE	CCB	PRINT,J	5		1686	F W21 J		43
349	3	47	TRIPLE	CCB	PRINT,K	5		1691	F W21 K		43
350	3	48	SKIPI	CCB	TESTH,1	5		1696	F V33 1		43
351	3	49	*		TAPE ERROR ROUTINE						
352	3	50	ERR	SBR	ERREXT+3	4		1701	H X52		43
353	3	51		S	ERRCT1	4		1705	S 16Z		43
354	3	52	TERCT	BCE	TENERR,ERRCT1,I	8		1709	B X53 16Z I		43
355	3	53		A	+1,ERRCT1=1	7		1717	A 16X 16Z		43
356	3	54		A	+1,ERRCT2=2	7		1724	A 16X 17/		44
357	3	55		BSP	TAPE	5		1731	U (U2 B		44
358	3	56		RT	TAPE,RECORD	8		1736	M (U2 201 R		44
359	3	57		BER	TERCT	5		1744	B X09 L		44
360	3	58	ERREXT	B	0	4		1749	B 000		44
					0 DUMMY	8		1753	N 000 000 S		44
361	JJ		TENERR	NOP	0,0,S	1		1761	.		44
362	3	60		H		5		1762	B X05 D		45
363	3	61		BIN	ERR+4,D	5		1767	B X80 C		45
364	3	62		BIN	**9,C	8		1772	B X93 #99		45
365	3	63		BCE	NOLIST,LIST,	1		1780	2		45
366	3	64		W		7		1781	C #87 16T		45
367	3	65		C	BIGH,LILH	5		1788	B V65 /		45
368	3	66		BU	ADDLH	7		1793	C #91 16W		45
369	3	67	NOLIST	C	BIGD,LILD	5		1800	B Y09 /		46
370	3	68		BU	ADLDER	4		1805	B V57		46
371	3	69		B	ADDLH-8	7		1809	A 16X 16W		46
372	3	70	ADLDER	A	+1,LILD	4		1816	B D28		46
373	3	71		B	RAISE	4		1820	B V03		46
374	3	72		B	READ	4			(U2		
375	3	73	TAPE	EQU	(U2				(U2		
376	3	74	*		READ TAPE INTO 201 TO 332 FOR EASY LISTING						
377	3	75	200	DA	1X133,G			0200	0332		46
378	3	76	RECORD		2,2			0201		FIELD	46
				DCW	' '	1		0333		GMARK	47
379	3	77	TERMSG	DCW	'TAPE ERROR'	10		1833			48
380	3	78		DCW	' '	1		1834			48
381	3	79	TINST1	RT	TAPE,RECORD	8		1835	M (U2 201 R		48
382	3	80	CINST2	MCW	80,RECORD+79	7		1843	M 080 280		48
383	3	81	CINST1	R		1		1850	1		48
384	3	82	*		DECODE AND SCALE ROUTINE						
385	3	83	DECODE	SBR	EXIT2+3	4		1851	H K38		48
386	3	84		M	IX1,IX1TP	7		1855	M 089 M70		48
387	3	85		M	IX2	4		1862	M 094		49
388	3	86		M	IX3	4		1866	M 099		49
389	3	87		M	ZERO,RHSIG	7		1870	M M41 M89		49
390	3	88		M	ZERO,RHZRO	7		1877	M M41 M86		49
391	3	89		M	ZERO,LHSIG	7		1884	M M41 M83		49
392	3	90		M	ZERO,LHZRO	7		1891	M M41 M80		49
393	3	91		M	ZERO,DECIN	7		1898	M M41 M77		50
394	3	92		M	ZERO,ANS	7		1905	M M41 M76		50
395	3	93		M	RMOST,IX1	7		1912	M M60 089		50

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
396	3	94		SBR	IX2,0	7		1919	H 094 000		50
397	3	95		SBR	IX3	4		1926	H 099		50
398	3	96		S	ANS	4		1930	S M76		50
399	3	97		BE	EXP,FORM	8		1934	B K72 M61 E		51
400	3	98		BI	INTGR,FORM	8		1942	B K61 M61 I		51
401	3	99	ZONE	BWZ	NOZON,RECORD+X1,2	8		1950	V L85 2#1 2		51
402	4	00		B.	DEC,RECORD+X1	8		1958	B L74 2#1 .		51
403	4	01	SIGN	MZ	RECORD+X1,ANS	7		1966	Y 2#1 M76		51
404	4	02		A	'001',IX1	7		1973	A 15V 089		52
405	4	03		A	LHZRO,IX1	7		1980	A M80 089		52
406	4	04		C	ZERO,LHSIG	7		1987	C M41 M83		52
407	4	05		BE	NOSIG	5		1994	B -62 S		52
408	4	06		A	LHSIG,SCLPR	7		1999	A M83 M57		52
409	4	07	LHAND	C	ZERO,LHSIG	7		2006	C M41 M83		53
410	4	08		BE	RO	5		2013	B J39 S		53
411	4	09		MN	RECORD+X1,ANS-5+X2	7		2018	D 2#1 MP1		53
412	4	10		C	'005',IX2	7		2025	C 17U 094		53
413	4	11		A	'001',IX1	7		2032	A 15V 089		53
414	4	12		A	'001',IX2	7		2039	A 15V 094		54
415	4	13		BE	V	5		2046	B J50 S		54
416	4	14		A	'I9I',LHSIG	7		2051	A 15S M83		54
417	4	15		B	LHAND	4		2058	B -06		54
418	4	16	NOSIG	S	RHZRO,SCLPR	7		2062	S M86 M57		54
419	4	17		A	RHZRO,IX1	7		2069	A M86 089		54
420	4	18	DA	A	'001',IX1	7		2076	A 15V 089		55
421	4	19	RHAND	C	ZERO,RHSIG	7		2083	C M41 M89		55
422	4	20		BE	V	5		2090	B J50 S		55
423	4	21		MN	RECORD+X1,ANS-5+X2	7		2095	D 2#1 MP1		55
424	4	22		C	'005',IX2	7		2102	C 17U 094		55
425	4	23		A	'001',IX1	7		2109	A 15V 089		56
426	4	24		A	'001',IX2	7		2116	A 15V 094		56
427	4	25		BE	V	5		2123	B J50 S		56
428	4	26		A	'I9I',RHSIG	7		2128	A 15S M89		56
429	4	27		B	RHAND	4		2135	B -83		56
430	4	28	RO	A	RHZRO,RHSIG	7		2139	A M86 M89		56
431	4	29		B	DA	4		2146	B -76		57
432	4	30	V	C	-00,SCLPR	7		2150	C 17W M57		57
433	4	31		BE	MULTY	5		2157	B J82 S		57
434	4	32		BWZ	SML,SCLPR,K	8		2162	V K39 M57 K		57
435	4	33		C	+05,SCLPR	7		2170	C 17Y M57		57
436	4	34		BH	LGE	5		2177	B K50 U		57
437	4	35	MULTY	M	ANS,MLTFD	7		2182	' M76 M55		58
438	4	36		MN	SCLPR,IX3	7		2189	D M57 099		58
439	4	37		S	ANS	4		2196	S M76		58
440	4	38		MCW	MLTFD-6+X3,ANS	7		2200	M MD9 M76		58
441	4	39	PXT	MZ	MLTFD,ANS	7		2207	Y M55 M76		58
442	4	40		M	IX1TP,IX1	7		2214	M M70 089		58
443	4	41		MCW	IX2TP,IX2	7		2221	M M67 094		59
444	4	42		MCW	IX3TP,IX3	7		2228	M M64 099		59
445	4	43	EXIT2	B	DECODE	4		2235	B Y51		59

EXIT2 HAS INITIAL B-REG AS AADDR

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
446	4	44	SML	M	ZERO,ANS	7		2239	M M41 M76		59
447	4	45		B	PXT	4		2246	B K07		59
448	4	46	LGE	M	NINE,ANS	7		2250	M M47 M76		59
449	4	47		B	PXT	4		2257	B K07		60
450	4	48	INTGR	M	'001',DECIN	7		2261	M 15V M77		60
451	4	49		B	ZONE	4		2268	B Z50		60
452	4	50	EXP	BWZ	NEG,RECORD-2+X1,K	8		2272	V K98 1Z9 K		60
453	4	51		A	RECORD+X1,SCLPR	7		2280	A 2#1 M57		60
454	4	52	EXP1	A	'I9F',IX1	7		2287	A 18/ 089		60
455	4	53		B	ZONE	4		2294	B Z50		61
456	4	54	NEG	S	RECORD+X1,SCLPR	7		2298	S 2#1 M57		61
457	4	55		B	EXP1	4		2305	B K87		61
458	4	56	SIG	B1	DECON,DECIN	8		2309	B L49 M77 1		61
459	4	57		A	RHZRO,RHSIG	7		2317	A M86 M89		61
460	4	58		A	'001',RHSIG	7		2324	A 15V M89		61
461	4	59		M	ZERO,RHZRO	7		2331	M M41 M86		62
462	4	60	ADJ	A	'I9I',IX1	7		2338	A 15S 089		62
463	4	61		B	ZONE	4		2345	B Z50		62
464	4	62	DECON	A	LHZRO,LHSIG	7		2349	A M80 M83		62
465	4	63		A	'001',LHSIG	7		2356	A 15V M83		62
466	4	64		M	ZERO,LHZRO	7		2363	M M41 M80		62
467	4	65		B	ADJ	4		2370	B L38		63
468	4	66	DEC	M	'001',DECIN	7		2374	M 15V M77		63
469	4	67		B	ADJ	4		2381	B L38		63
470	4	68	NOZON	BCE	SIGN,RECORD+X1,	8		2385	B Z66 2#1		63
471	4	69		BCE	ZRO,RECORD+X1,0	8		2393	B M05 2#1 0		63
472	4	70		B	SIG	4		2401	B L09		63
473	4	71	ZRO	BCE	JANE,DECIN,1	8		2405	B M24 M77 1		64
474	4	72		A	'001',RHZRO	7		2413	A 15V M86		64
475	4	73		B	ADJ	4		2420	B L38		64
476	4	74	JANE	A	'001',LHZRO	7		2424	A 15V M80		64
477	4	75		B	ADJ	4		2431	B L38		64
478	4	76	IX1	EQU	89			0089			
479	4	77	IX2	EQU	94			0094			
480	4	78	IX3	EQU	99			0099			
481	4	79	ZERO	DCW	'0000000'	7		2441			64
482	4	80	NINE	DCW	'9999999'	6		2447			65
483	4	81	MLTFD	DCW	=8	8		2455			65
484	4	82	SCALE	EQU	MLTFD-7			2448			
485	4	83	SCLPR	DCW	=2	2		2457			65
486	4	84	RMOST	DCW	=3	3		2460			65
487	4	85	FORM	DCW	=1	1		2461			65
488	4	86		DA	1X28			2462	2489		65
489	4	87	IX3TP		1,3	3		2464		FIELD	65
490	4	88	IX2TP		4,6	3		2467		FIELD	66
491	4	89	IX1TP		7,9	3		2470		FIELD	66
492	4	90	ANS		10,15	6		2476		FIELD	66
493	4	91	DECIN		16,16	1		2477		FIELD	66
494	4	92	LHZRO		17,19	3		2480		FIELD	66
495	4	93	LHSIG		20,22	3		2483		FIELD	66

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
496	4	94	RHZRO		23,25		3				
497	4	95	RHSIG		26,28		3				
498	4	96	*		COMPARE X,Y SCALED VALUES WITH LIMITS						
499	4	97	CMPRXY	SBR	CMPRXT+3			2486			FIELD 67
500	4	98		BM	CYN,Y			2489			FIELD 67
501	4	99		C	ULIMY,Y						
502	5	00		BH	CYULIM						
503	5	01		C	YMAX,Y						
504	5	02		BH	CYMAX						
505	5	03	CMPRX	BM	CXN,X						
506	5	04		C	ULIMX,X						
507	5	05		BH	CXULIM						
508	5	06		C	XMAX,X						
509	5	07		BH	CXMAX						
510	5	08	CMPRXT	B	0						
511	5	09	CYN	C	LLIMY,Y						
512	5	10		BH	CYLLIM						
513	5	11		C	YMIN,Y						
514	5	12		BH	CYMIN						
515	5	13		B	CMPRX						
516	5	14	CYULIM	ZA	ULIMY,YMAX						
517	5	15		B	RAISE						
518	5	16		SBR	CMPRXT+3,MAIN						
519	5	17		B	CMPRX						
520	5	18	CYMAX	ZA	Y,YMAX						
521	5	19		B	CMPRX						
522	5	20	CXN	C	LLIMX,X						
523	5	21		BCE	CXULIM+7,NEGVAL,						
524	5	22		BH	CXLLIM						
525	5	23		C	XMIN,X						
526	5	24		BH	CXMIN						
527	5	25		B	CMPRXT						
528	5	26	CXULIM	ZA	ULIMX,XMAX						
529	5	27		B	RAISE						
530	5	28		B	MAIN						
531	5	29	CXMAX	ZA	X,XMAX						
532	5	30		B	CMPRXT						
533	5	31	CYLLIM	ZA	LLIMY,YMIN						
534	5	32		B	CYULIM+7						
535	5	33	CYMIN	ZA	Y,YMIN						
536	5	34		B	CMPRX						
537	5	35	CXLLIM	ZA	LLIMX,XMIN						
538	5	36		B	CXULIM+7						
539	5	37	CXMIN	ZA	X,XMIN						
540	5	38		B	CMPRXT						
541	5	39	ULIMY	DCW	=6						
542	5	40	LLIMY	DCW	=6						
543	5	41	ULIMX	DCW	+002400						
544	5	42	LLIMX	DCW	-001500						
545	5	43	LIMXL	DCW	-001600						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
546	5	44	X	EQU	XTRGT			3058			
547	5	45	Y	EQU	YTRGT			3052			
548	5	46	*								
549	5	47	*		TRAVEL SUBROUTINE						
550	5	48	*								
551	5	49	*		--CALLING SEQUENCE--						
552	5	50	*		1. ZA DESIRED X COORDINATE, XTRGT						
553	5	51	*		2. ZA DESIRED Y COORDINATE, YTRGT						
554	5	52	*		3. B TRAVEL						
555	5	53	*								
556	5	54	*		XPR,YPR ARE UPDATED						
557	5	55	*		TRAVEL EXECUTED						
558	5	56	*		CONTROL RETURNED TO INSTR AFTER *B TRAVEL*						
559	5	57	*								
560	5	58	TRAVEL	SBR	LEAVE+3			4	2759	H R98	74
561	JJ	13		SBR	JBU+3			4	2763	H H67	74
562	5	59		ZA	ZEROA,ALPHA			7	2767	+ A13 +46	74
563	5	60		ZA	XTRGT,DELX			7	2774	+ +58 +70	75
564	5	61		ZA	YTRGT,DELY			1	2781	+	75
565	5	62		S	XPR,DELX			7	2782	S +82 +70	75
566	5	63		S	YPR,DELY			1	2789	S	75
567	5	64		MCW	XTRGT,XPR			7	2790	M +58 +82	75
568	5	65		MCW	YTRGT,YPR			1	2797	M	75
569	JJ	14		BSS	JFIX,F			5	2798	B G42 F	75
570	5	66		ZA	DELX,DELA			7	2803	+ +70 +94	76
571	5	67		ZA	DELY,DELB			1	2810	+	76
572	5	68		MZ	*+8,DELA			7	2811	Y Q25 +94	76
573	5	69		MZ	*+1,DELB			7	2818	Y Q25 +88	76
574	5	70	*		DETERMINE OCTANT						
575	5	71		C	DELA,DELB			7	2825	C +94 +88	76
576	5	72		BM	DELXN,DELX			8	2832	V Q83 +70 K	76
577	5	73		BM	DELYN,DELY			8	2840	V R14 +64 K	77
578	5	74		MN	PXPY,D45			7	2848	D A06 A03	77
579	5	75		BH	DOOPY			5	2855	B R37 U	77
580	5	76	DOOPX	MN	PX,DOO			7	2860	D A05 A01	77
581	5	77	SETDEL	ZS	DELA,DEL			7	2867	- +94 A00	77
582	5	78		A	DELA			4	2874	A +94	77
583	5	79		A	DELB			1	2878	A	77
584	5	80		B	TALPHA			4	2879	B R88	78
585	5	81	DELXN	BM	DELXYN,DELY			8	2883	V R64 +64 K	78
586	5	82		MN	NXPY,D45			7	2891	D A08 A03	78
587	5	83		BH	DOOPY			5	2898	B R37 U	78
588	5	84	DOONX	MN	NX,DOO			7	2903	D A09 A01	78
589	5	85		B	SETDEL			4	2910	B Q67	78
590	5	86	DELYN	MN	PXNY,D45			7	2914	D A12 A03	79
591	5	87		BL	DOOPX			5	2921	B Q60 T	79
592	5	88	DOONY	MN	NY,DOO			7	2926	D A11 A01	79
593	5	89		B	DELAY			4	2933	B R44	79
594	5	90	DOOPY	MN	PY,DOO			7	2937	D A07 A01	79
595	5	91	DELAY	MN	DELY,DELA			7	2944	D +64 +94	79

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
596	5	92		MCW		1		2951	M		79
597	5	93		MN	DELX, DELB	7		2952	D +70 +88		80
598	5	94		MCW		1		2959	M		80
599	5	95		B	SETDEL	4		2960	B Q67		80
600	5	96	DELXYN	MN	NXNY, D45	7		2964	D A10 A03		80
601	5	97		BL	DOONX	5		2971	B R03 T		80
602	5	98		B	DOONY	4		2976	B R26		80
603	5	99	*		PLOTTER DRIVING LOOP						
604	6	00	DOOGO	MCW	(TO, D00, S	8		2980	M (TO A01 S		80
605	6	01	TALPHA	C	ALPHA, DELA	7		2988	C +46 +94		81
606	6	02	LEAVE	BE	0	5		2995	B 000 S		81
607	6	03	*								
608	6	04	*	FOR BUFFERING	INSERT PRINTER/PRINTER CARRIAGE BUSY TEST HERE						
609	6	05	*								
610	6	06		A	TWOA, ALPHA	7		3000	A A14 +46		81
611	6	07		A	DELB, DEL	7		3007	A +88 A00		81
612	6	08		BM	DOOGO, DEL	8		3014	V R80 A00 K		81
613	6	09		MCW	(TO, D45, S	8		3022	M (TO A03 S		82
614	6	10		S	DELA, DEL	7		3030	S +94 A00		82
615	6	11		B	TALPHA	4		3037	B R88		82
616	6	12	*		CONSTANTS						
617	6	13	ALPHA	DCW	=6	6		3046			82
618	6	14	YTRGT	DCW	=6	6		3052			82
619	6	15	XTRGT	DCW	=6	6		3058			82
620	6	16	DELY	DCW	=6	6		3064			83
621	6	17	DELX	DCW	=6	6		3070			83
622	6	18	YPR	DCW	=6	6		3076			83
623	6	19	XPR	DCW	=6	6		3082			83
624	6	20	DELB	DCW	=6	6		3088			83
625	6	21	DELA	DCW	=6	6		3094			83
626	6	22	DEL	DCW	=6	6		3100			84
627	6	23	D00	DA	1X1, G			3101	3101		84
				DCW	' '	1		3102		GMARK	85
628	6	24	D45	DA	1X1, G			3103	3103		85
				DCW	' '	1		3104		GMARK	86
629	6	25	PX	DCW	'3'	1		3105			86
630	6	26	PXPY	DCW	'2'	1		3106			86
631	6	27	PY	DCW	'1'	1		3107			86
632	6	28	NXPY	DCW	'8'	1		3108			86
633	6	29	NX	DCW	'7'	1		3109			86
634	6	30	NXNY	DCW	'6'	1		3110			86
635	6	31	NY	DCW	'5'	1		3111			87
636	6	32	PXNY	DCW	'4'	1		3112			87
637	6	33	ZEROA	DCW	+0	1		3113			87
638	6	34	TWOA	DCW	+2	1		3114			87
639	6	35	*		END OF TRAVEL SUBROUTINE						
640	6	36	*								
641	6	37	*		SYMBOL DRAWING ROUTINE						
642	6	38	FIGURE	SBR	**35	4		3115	H A53		87
643	6	39		MN	PEN, **8	7		3119	D D58 A33		87

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
644	6	40		BCE	*+21,0, 0 DUMMY, BLANK DUMMY, TEST SAVE TIME	8		3126	B A54 000		87
645	6	41		MCW	(TO,0,S 0 DUMMY	8		3134	M (TO 000 S		88
646	6	42		MCW	(TO,PEN,S	8		3142	M (TO D58 S		88
647	6	43		B	0 FIGURE EXIT	4		3150	B 000		88
648	6	44		MCW	(TO,0,S 0 DUMMY	8		3154	M (TO 000 S		88
649	6	45		B	*-15	4		3162	B A50		88
650	6	46	DDIA1	DCW	'0666444222888888222444666'	25		3190			89
651	6	47		DCW	' '	1		3191			89
652	6	48	DIA1	DCW	'95555502222888886666644444911111'	33		3224			90
653	6	49		DCW	' '	1		3225			90
654	6	50	SQ1	DCW	'96666603333333331111111117777777555555559'	48		3273			92
655	6	51		DC	'22222'	5		3278			92
656	6	52		DCW	' '	1		3279			92
657	6	53	ASTRK1	DCW	'05555511111111155555333337777777333334444'	45		3324			94
658	6	54		DC	'8888888444466662222226666'	28		3352			94
659	6	55		DCW	' '	1		3353			94
660	6	56	CROSS1	DCW	'920355757717113133596'	21		3374			95
661	6	57		DCW	' '	1		3375			95
662	6	58	QUICK1	DCW	'041166114'	9		3384			95
663	6	59		DCW	' '	1		3385			95
664	6	60	STAR1	DCW	'95555502121232878181865656764345454911111'	41		3426			97
665	6	61		DCW	' '	1		3427			97
666	6	62	*		PICK PEN UP FROM PAPER ROUTINE						
667	6	63	RAISE	SBR	RAISEX+3	4		3428	H D42		97
668	6	64		MCW	'9',PEN	7		3432	M 14X D58		97
669	6	66	RAISEX	B	0 0 DUMMY EXIT FROM RAISE PEN	4		3439	B 000		97
670	6	67	*		LOWER PEN TO PAPER ROUTINE						
671	6	68	LOWER	SBR	LOWERX+3	4		3443	H D57		98
672	6	69		MCW	'0',PEN	7		3447	M 10W D58		98
673	6	71	LOWERX	B	0 0 DUMMY EXIT FROM LOWER PEN	4		3454	B 000		98
674	6	72	PEN	DA	1X1,G			3458	3458		98
				DCW	' '	1		3459		GMARK	99
675	6	73	RECPEN	SBR	PENEXT+3	4		3460	H D79		99
676	6	74		SBR	RAISEX+3	4		3464	H D42		99
677	6	75	*		FUTURE ALPHA-NUMERIC CALLOUT CAN BE INCORPATED AFTER +SKIP TEST						
678	6	76		BCE	RAISE+4,RECORD+1,+	8		3468	B D32 202 +		99
679	6	77	PENEXT	B	0	4		3476	B 000		99
680	6	78	*		COMPLETED CURVE, NOW DRAW AXES, PREPARE FOR NEXT CURVE						
681	6	79	ENDMSG	DCW	'END PLOT, NOTE B IS UP'	23		3502			100
682	6	80		DCW	' '	1		3503			100
683			EOR	MCW	' ',MKR	7		3504	M 16Y #93		100
684				BCE	NOAXIS,AXIS,	8		3511	B F03 #60		100
685	6	82		BCE	XAXIS,AXIS,X	8		3519	B E61 #60 X		101
686	6	83		B	RAISE	4		3527	B D28		101
687	6	84		S	XTRGT	4		3531	S +58		101
688	6	85		ZA	YMAX,YTRGT	7		3535	+ 11S +52		101
689	6	86		B	TRAVEL	4		3542	B P59		101
690	6	87		B	LOWER	4		3546	B D43		101
691	6	88		ZA	YMIN,YTRGT	7		3550	+ 11Y +52		101
692	6	89		B	TRAVEL	4		3557	B P59		102

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
693	6	90	XAXIS	BCE	NOAXIS,AXIS,Y	8		3561	B F03 #60	Y	102
694	6	91		B	RAISE	4		3569	B D28		102
695	6	92		ZA	XMIN,XTRGT	7		3573	+ 13# +58		102
696	6	93		S	YTRGT	4		3580	S +52		102
697	6	94		B	TRAVEL	4		3584	B P59		102
698	6	95		B	LOWER	4		3588	B D43		102
699	6	96		ZA	XMAX,XTRGT	7		3592	+ 12U +58		103
700	6	97		B	TRAVEL	4		3599	B P59		103
701	6	98	NOAXIS	BIN	BUP,B	5		3603	B F97 B		103
702	6	99		LCA	GMWM,ENDMSG-14	7		3608	L 365 D88		103
703	JJ		OUTEND	NOP	0,0,S	8		3615	N 000 000 S		103
704	7	02		BIN	EUP,E	5		3623	B F32 E		103
705	7	03		B	RETURN	4		3628	B 457		104
706	7	04	*		INTERRUPT, THEN GO READ NEW CONTROL CARD						
707	7	05	EUP	RWD	TAPE	5		3632	U (U2 R		104
708	7	06		ZA	+1,FILECT	7		3637	+ 16X 10V		104
709	7	07		B	RAISE	4		3644	B D28		104
710	7	08		ZA	+0,XTRGT MOVE PEN TO EVEN INCREMENT + RIGHT EDGE	7		3648	+ 14/ +58		104
711	JJ	15		ZA	XMAX,XTRGT	7		3655	+ 12U +58		104
712	JJ	16		A	+400,XTRGT	7		3662	A 18U +58		105
713	JJ	17		MN	+00,XTRGT	7		3669	D 14Z +58		105
714	JJ	18		MN		1		3676	D		105
715	7	09		MCW	LLIMY,YTRGT	7		3677	M P40 +52		105
716	7	10		B	TRAVEL	4		3684	B P59		105
717	JJ	24		BSS	JEND,F	5		3688	B I60 F		105
718	7	11		H	RETURN	4		3693	. 457		105
719	7	12	BUP	LCA	' ',' ,ENDMSG-14	7		3697	L 18V D88		106
720	7	13		B	OUTEND	4		3704	B F15		106
721	7	14	HISTG	ZA	YPR,YTRGT	7		3708	+ +76 +52		106
722	7	15		B	TRAVEL	4		3715	B P59		106
723	7	16		BCE	LOWER,PEN,9	8		3719	B D43 D58 9		106
724	7	17		ZA	ANS,YTRGT	7		3727	+ M76 +52		106
725	7	18		B	TRAVEL	4		3734	B P59		107
726	7	19		B	BHISTG+8	4		3738	B U76		107
727	JJ	02	JORG	EQU	ORN			1065			
728	JJ	03	JNEG	EQU	NEGVAL			1057			
729	JJ	04	JSYM	EQU	MKR			1093			
730	JJ	05	JTAPE	EQU	(U6			(U6			
731	JJ	06	JAXIS	EQU	NOTNEW			1055			
732	JJ	07	JSTART	EQU	RETURN			0457			
733	2	27	*								
734	2	28	*								
735	1	07	JFIX	ZA	YTRGT,JY	7		3742	+ +52 21X		107
736	1	08		ZA	XTRGT,JX	7		3749	+ +58 21/		107
737	1	09		A	JORG,JY	7		3756	A #65 21X		107
738	1	10		BCE	JADDX,JNEG,N	8		3763	B I04 #57 N		107
739	1	11	JBW	BW	JFIRST,JNEW	8		3771	V I15 04/ 1		108
740	JJ	14	JBCE	BCE	JBLNK,PEN, Q. PEN SAME AS PREVIOUS POINT	8		3779	B 04S D58		108
741	1	12	JMCW	MCW	PEN,JP	7		3787	M D58 20W		108
742	1	13	JMJS	MCW	JSYM,JS	7		3794	M #93 21S		108

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
743				MZ	JY,JYS			7 3801	Y 21X 21T		108
744				MZ	JX,JXS			7 3808	Y 21/ 20X		109
745				MZ	' ',JY			7 3815	Y 16Y 21X		109
746				MZ	' ',JX			7 3822	Y 16Y 21/		109
747	1	14	JMCM	MCM	JP,JAREA			7 3829	P 20W 21Z		109
748	1	15		MA	'012',JMCM+6			7 3836	= 18Y H35		109
749	1	16		A	*-6,JCOUNT=3			7 3843	A H43 19/		110
750	JJ	16		MN	PEN,JBCE+7			7 3850	D D58 G86		110
751	1	17	JU	C	JCOUNT,'100'			7 3857	C 19/ 19U		110
752	1	18	JBU	BU	0			5 3864	B 000 /		110
753	1	19	JSET	SBR	JMCM+6,JAREA			7 3869	H H35 21Z		110
754	1	20		SBR	JCOUNT,0			7 3876	H 19/ 000		111
755	1	205	JCW	CW	JSEC			4 3883) 20#		111
756	1	21	JWT	WT	JTAPE,JAREA			8 3887	M (U6 21Z W		111
757	1	22		BER	JERR			5 3895	B I30 L		111
758				B	JU			4 3900	B H57		111
759	1	25	JADDX	A	+1500,JX			7 3904	A 19Y 21/		111
760	1	26		B	JBW			4 3911	B G71		111
761	1	27	JFIRST	CW	JNEW			4 3915) 04/		112
762	1	29		MCW	'R',JP			7 3919	M 19Z 20W		112
763	1	30		B	JMJS			4 3926	B G94		112
764	2	01	JERR	BSP	JTAPE			5 3930	U (U6 B		112
765	2	02		BW	JTWO,JSEC=1			8 3935	V I51 20# 1		112
766	2	03		SW	JSEC			4 3943	, 20#		112
767	2	04		B	JWT			4 3947	B H87		112
768	2	05	JTWO	SKP	JTAPE			5 3951	U (U6 E		113
769	2	06		B	JCW			4 3956	B H83		113
770	2	08	JEND	C	JCOUNT,'000'			7 3960	C 19/ 20T		113
771	2	09		BU	JWRITE			5 3967	B I89 /		113
772	2	10	JWTM	WTM	JTAPE			5 3972	U (U6 M		113
773	2	12		NOP	123,456			7 3977	N 123 456		113
774	2	13		H				1 3984	.		113
775	2	14		B	JSTART			4 3985	B 457		114
776	2	15	JWRITE	SW	JMCM+4			4 3989	, H33		114
777	2	16		MCW	JMCM+6,JSBR+6			7 3993	M H35 01#		114
778	2	17		CW	JMCM+4			4 4000) H33		114
779	2	18	JSBR	SBR	JLCA+6,0			7 4004	H 02/ 000		114
780	2	19		SBR	JCLR+3			4 4011	H 03W		114
781	2	20	JLCA	LCA	' ',0			7 4015	L 20U 000		114
782	2	21		SBR	JBU+3,JCLR			7 4022	H H67 03T		115
783	2	22		B	JSET			4 4029	B H69		115
784	2	23	JCLR	CW	0			4 4033) 000		115
785	2	24		B	JWTM			4 4037	B I72		115
786	2	25	*								
787	2	26	*								
788	1	06	JNEW	DC	' '			1 4041			115
789	JJ	18	JBLNK	MCW	' ',JP			7 4042	M 16Y 20W		115
790	JJ	19		B	JMJS			4 4049	B G94		115
791	JJ	04	JTITL	SBR	JTITLX+3			4 4053	H 08Y		115
792				BCE	JTITLX,NOTNEW,*			8 4057	B 08V #55 *		116

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
793	JJ	06		MCW	'W',ID-23				OVERLAY COLUMN 57 OF CTL CARD		
794	JJ	07	JTITLW	WT	JTAPE, ID-23				WRITE COL 57 THRU 80 OF CTL CARD		
795	JJ	08		BER	JTITLR				IF YES SKIP \$ BLANK TAPE UNTIL NO		
796	JJ	09	JTITLX	B	0				EXIT		
797	JJ	10	JTITLR	BSP	JTAPE						
798	JJ	11		SKP	JTAPE						
799	JJ	12		B	JTITLW						
800	JJ	21		LTORG							
				DCW	'1'				4103		
		111	FILECT		=02					LIT	117
					'0'					AREA	117
					'0'					LIT	117
		112	YMAX		=06					AREA	117
		113	YMIN		=06					AREA	117
		114	XMAX		=06					AREA	118
		115	XMIN		=06					AREA	118
		128			'STOP PLOT'					LIT	118
					'N'					LIT	118
					+0					LIT	118
					'A'					LIT	118
					+1000					LIT	118
					'9'					LIT	119
					+00					LIT	119
					'I9I'					LIT	119
					'001'					LIT	119
					'B'					LIT	119
					-300					LIT	119
					'==='					LIT	119
		321	LILH		=01					AREA	120
		323	LILD		=03					AREA	120
					+1					LIT	120
					' '					LIT	120
		355	ERRCT1		=01					AREA	120
		356	ERRCT2		=02					AREA	120
					'005'					LIT	120
					-00					LIT	121
					+05					LIT	121
					'I9F'					LIT	121
					+400					LIT	121
					' '					LIT	121
					'012'					LIT	121
		749	JCOUNT		=03					AREA	121
					'100'					LIT	122
					+1500					LIT	122
					'R'					LIT	122
		765	JSEC		=01					AREA	122
					'000'					LIT	122
					' '					LIT	122
					'W'					LIT	122
801	1	02	JP	DA	1X12,C,G						
802			JXS		2,2						
									4206	4217	123
									4207		123
										FIELD	123

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
803	1	03	JX		3,6						
						X		4211		FIELD	123
804	1	04	JS		7,7						
						SYMBOL		4212		FIELD	123
805			JYS		8,8						
								4213		FIELD	124
806	1	05	JY		9,12						
						Y		4217		FIELD	124
				DCW	' '			1 4218		GMARK	124
807	1	01	JAREA	DA	1X1200,G						
						TABLE TO ACCUMULATE POINTS		4219	5418		124
				DCW	' '			1 5419		GMARK	125
808	7	20		END	BEGIN						
									/ 366 080		126