

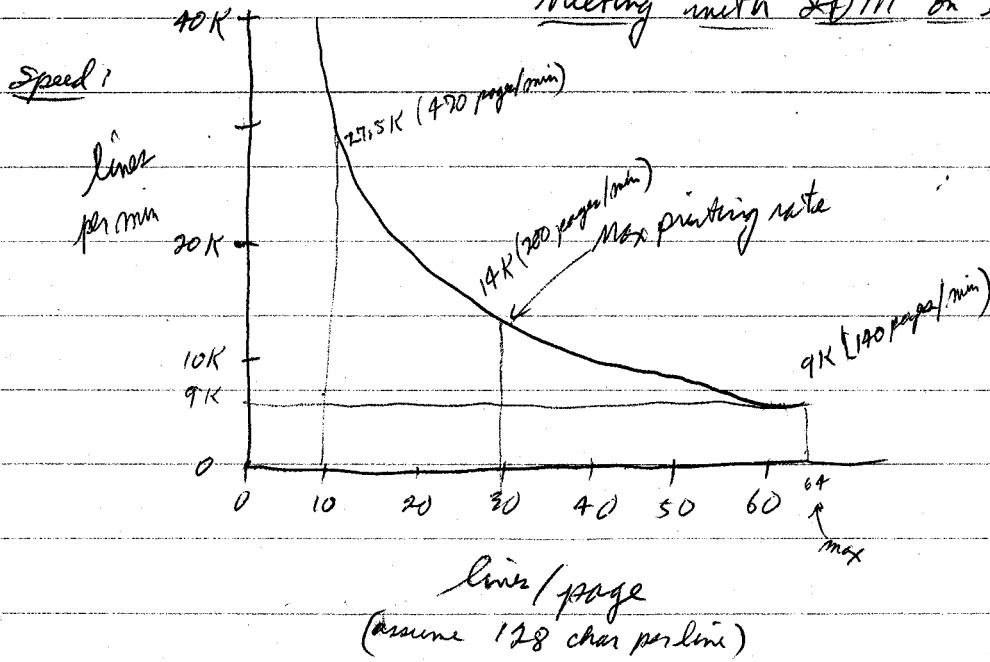
IBM Men

1. Bob Evans
2. Rogers
3. Larry
4. _____

(1st meeting with Bob Evans)

Nov 29, 1956

Meeting with IBM on electronic printer

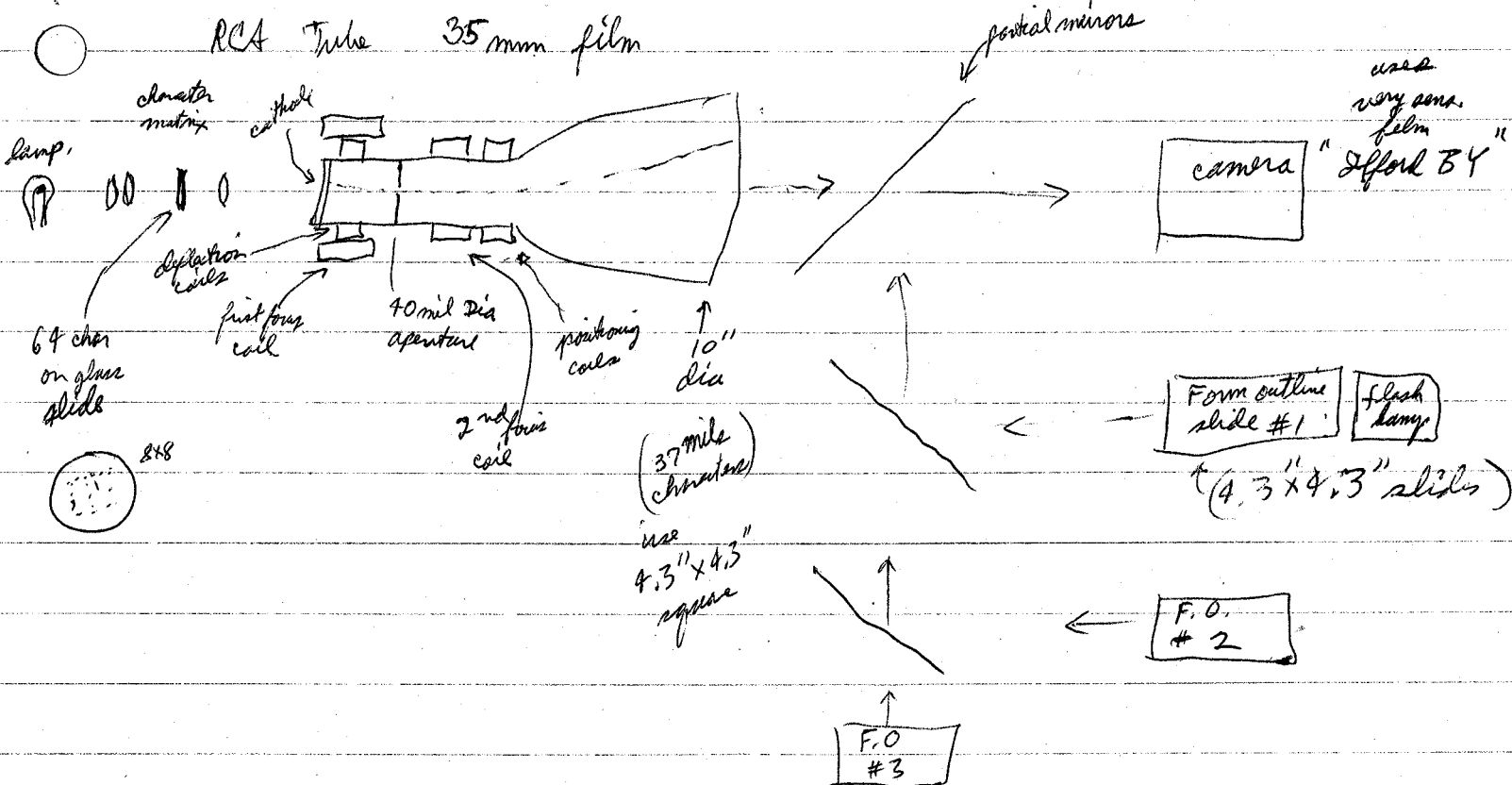


assumptions

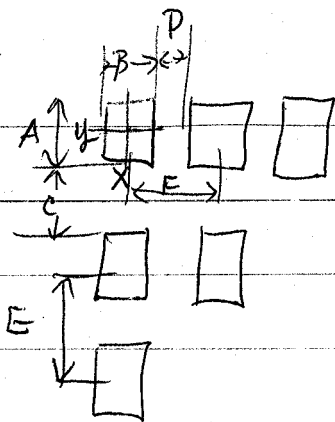
1. 128 char. per line
60 μ s per char (except for 1st)
2. 20 ms = frame change time
is used for printing
(out of 85-100 ms)

64 lines per page
140 page/min

(100 ms to advance film)



13x13 blow-up planned for 35mm film ? can be smaller
want to use square if possible.



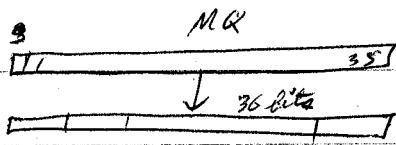
character dimensions (coord of character)

	microfilm	Page (13x13)
A	.144m	.100 in
B	.108	.075
C	.144	.100
D	.288 .036	.100 .025
E	.288 .288	.100 .200
F	.288 .144	.100 .100

5 lines/in

characters go on ~~one~~ one at a time (200 μ s decay time of phosphor)

dot .003" accuracy, on tube face.



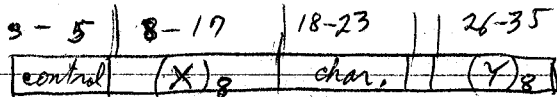
has buffer reg. 36 lines from MQ

buffer sends out ~~one~~ (6 bits) at a time to printer

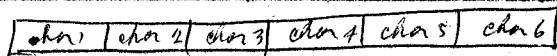
5 1 2 3 4 5

control characters

000000	no op
001000	print, starting at specified point
010000	" " " current point
011000	Plot selected character
100000	Print form outline 1
101000	" 2
010000	" 3
111000	advance Film Frame
000100	generate x axis
004100	" y axis



word use for plotting

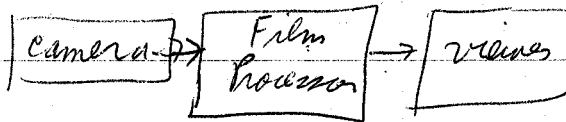


word use for printing
six characters per wd.

printing same as plotting where
x & y are understood.

at end of 138 jumps back
to beginning of next line space
Down one - at end of page get
end of record skip.
to print at different position

Future possibilities:



dry process
presently only 2 sec.

I. Print 14 Characters

WRS Microfilm R.

LXA L(A)A

1.0 Copy L(Data wd 1)+A, A

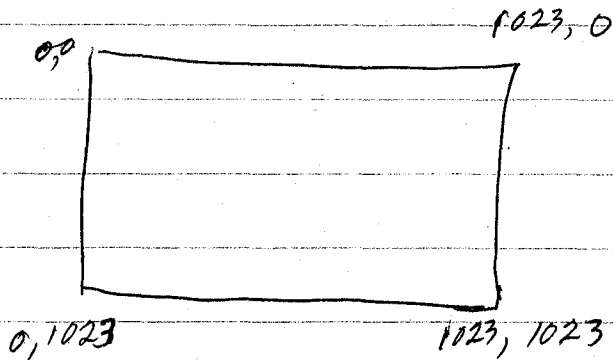
+IX 1.0, A, 1

(a) starting at X = (60), y = (150)

(b) continuing from current defl. position

	Data Wd.	5-5	6-11	12-17	18-23	24-29	30-35
(a)	1	(Print 001000)	D	6.0	-	0.1	50
	2	A	B	C	D	E	F
	3	G	H	I	J	K	L
	4	M	N	(signal 11111)			
(b)	1	Print current address 5-5 (010 000)	(no effect)				
	2	A	B	C	D	E	F
	3	G	H	I	J	K	L
	4	M	N	(Signal 11111)			

III. The origin of the graph to be plotted is (524, 500)
 plots (a) 2, 6 (b) -10, 20 (c) 34, -61 (d) 80, -160



(a) $524 + 2 = (526)_p = (1016)_8$ (x)

~~(b) $500 - 6 = (494)_p = (0756)_8$ (y)~~

~~(b) $524 - 10 = (514)_{10} = (1002)_8$ (y)~~

~~(c) $500 - 20 = (480)_p = (0740)_8$ (x)~~
~~(1056) (1061) (y)~~

~~(d) 0674 (x)~~
~~1224 (y)~~

		(6-7) not used ↓		(24, 25) not used ↓	
Data Word:	9-5	6-17	18-23	-24-35	
	Plot		+ charactz		
1	(011000)	1016	010000	0756	
2	}	00	1002	--	0740
3		00	1056	--	1061
4		00	0674	--	1224

These mean continue previous opn (ie, print + 'a)

For buffered output:

WRS M.P.

RLA (and count, FWA) Read level channel A

