

**CONTROL DATA® 6600
COMPUTER SYSTEM
DATA CHANNEL EQUIPMENT**

6602-B, 6603-B, 6622-A, 6681-B
6682-A, S.O. 60022, 60028, 60029

DIAGRAMS &
CIRCUIT DESCRIPTION

CONTROL DATA
CORPORATION

CUSTOMER ENGINEERING MANUAL

60125000

RECORD OF REVISIONS

REVISION	NOTES
	This printing includes material previously found in Pub. Nos. 60119700, 60119800, 60119900, 60120000, 60120100, and 60120800, which are made obsolete by this printing.
A	Misc. corrections. Pages revised are listed per section. 6603 Disk System Controller, pgs. 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 22, 23 and 29. 607-B Tape Transport Controller, pgs. 3, 5, 7, 9, 11, 13, 15, 17, 19 and 23. 626-B Magnetic Tape Transport Controller, pgs. 3, 5, 9, 11, 13, 15, 17, 19 and 21.
B (5-18-65)	Misc. Corrections and addition of logic diagrams to Section 6602 and 6603. General Contents revised. Pages revised are listed per section. 6602 - Contents, 1, 3, 5, 11, 17, 19, 21, 23, 25, 27, 35, 37, 39 and addition of pages 43, 45, 47, 49, and 51. 6603 - Contents, 1, 3, 5, 7, 9, 11, 13, 15, 19, 21, 22, 23, 25, 27, and addition of page 31. 6622 (626-B) - Divider, Title Page, Contents, 1, 3, 5, 15, 17, 19, and 21. Added Divider 6681. SPECIAL OPTION 60022 (1612) - Divider, Title Page, Contents, and page 1. SPECIAL OPTION 60022 (170) - Divider, Title Page and Contents. SPECIAL OPTION 60028 (607-B) - Divider, Title Page, Contents, 1, 3, 5, 9, 11, 15, 19, 21 and 23. SPECIAL OPTION 60029 (405-B) - Divider, Title Page, Contents and page 1. Removed Dividers for 501-B and 415-B.
C (12-8-65)	Pages listed either revised or new pages added. General contents, ii, 6602 section: Contents, ii, 1, 2, 3, 5, 6, 7, 9, 10, 11, 12, 18, 28, 31, 33 and 35. 6603 section: Contents, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 27, 29, 31 and 33. 6622 section: Contents, 1, 2, 3, 5, 7, 8, 9, 11, 12, 13, 15, 16, 17, 19 and 21. 6681 section: Contents, ii, 1, 2, 3, 5, 7, 9 and 11. 6682 section: Contents, ii, 1, 2, 3, 5, 7 and 9. S. O. 60022 (1612): Contents and ii. S. O. 60022 (170): Contents and ii. S. O. 60029: Contents and ii. This printing obsoletes all previous editions.

GENERAL CONTENTS

6602	Console Display Controller
6603	Disk System Controller
6622	Magnetic Tape Transport Controller (626)
6681	Data Channel Converter (3000 Series Interface)
6682	Satellite Coupler
S. O. 60022	6000 Series Data Channel Converter (1612 Printer)
S. O. 60022	6000 Series Data Channel Converter (170 Card Punch)
S. O. 60028	6000 Series 1 x 4 607 Tape Transport Controller
S. O. 60029	6000 Series 405 Card Reader Controller

S. O. = Special Option

6602 CONSOLE DISPLAY CONTROLLER

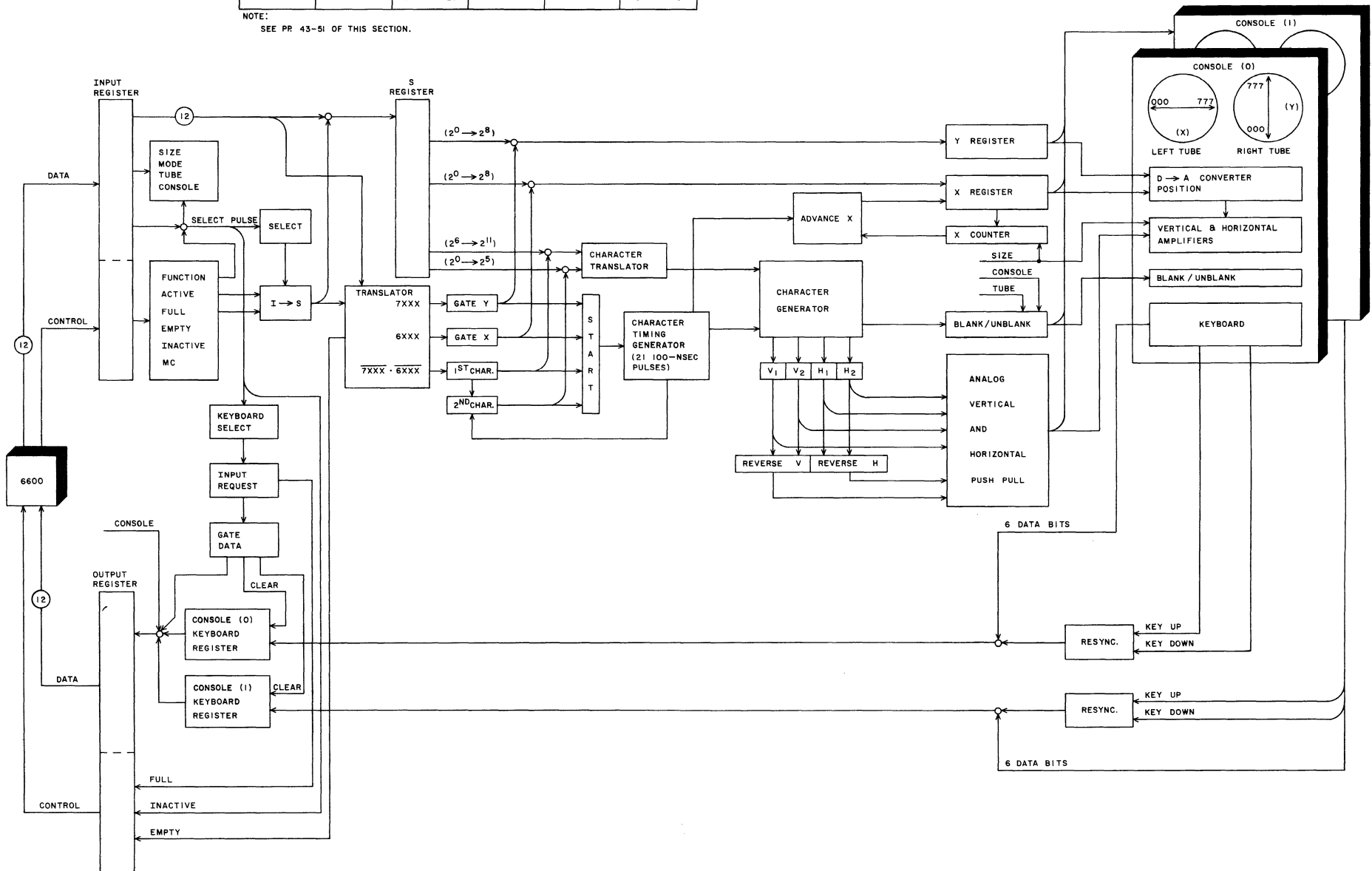
CONTENTS

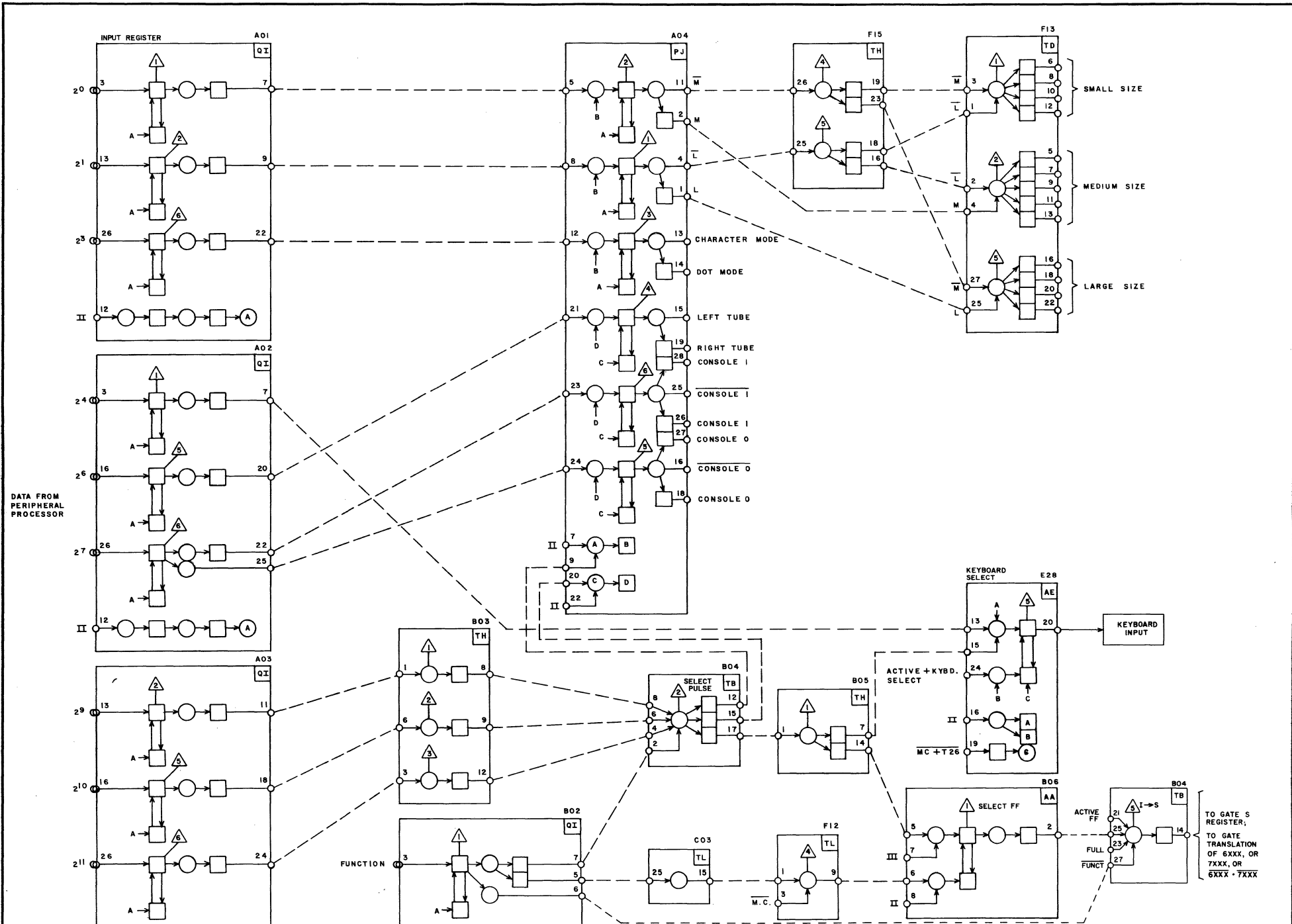
Page		Page	
ii	General Description	23	Character Generator, H1
1	Block Diagram	25	Character Generator, H2
2	Function Codes	27	Character Generator, Unblank
3	Mode Flip-Flops	28	Character Generator
5	Resync and Lockout Circuits	29	Character Generator, Reverse Direction
6	Keyboard Input Operation	31	Vertical Character Formation
7	Keyboard Input	33	X Register, Character Mode
9	Control to Peripheral	35	X and Y Registers, Dot Mode, Unblank Control
10	Character Timing Generator and Start Control	37	Clock
11	Start Control, Timing Generator	39	DD60A D/A Block Diagram
12	Character Mode Operator	41	DD60A Monitor Block Diagram
13	Character Timing Generator	43	Character Generation & Formation
15	Character Translator	45	Character Generation & Formation
17	Character Generator Logic (A=01)	47	Character Generation & Formation
18	Dot Mode Operation	49	Character Generation & Formation
19	Character Generator, V1	51	Character Generation & Formation
21	Character Generator, V2		

CHARACTER CODES

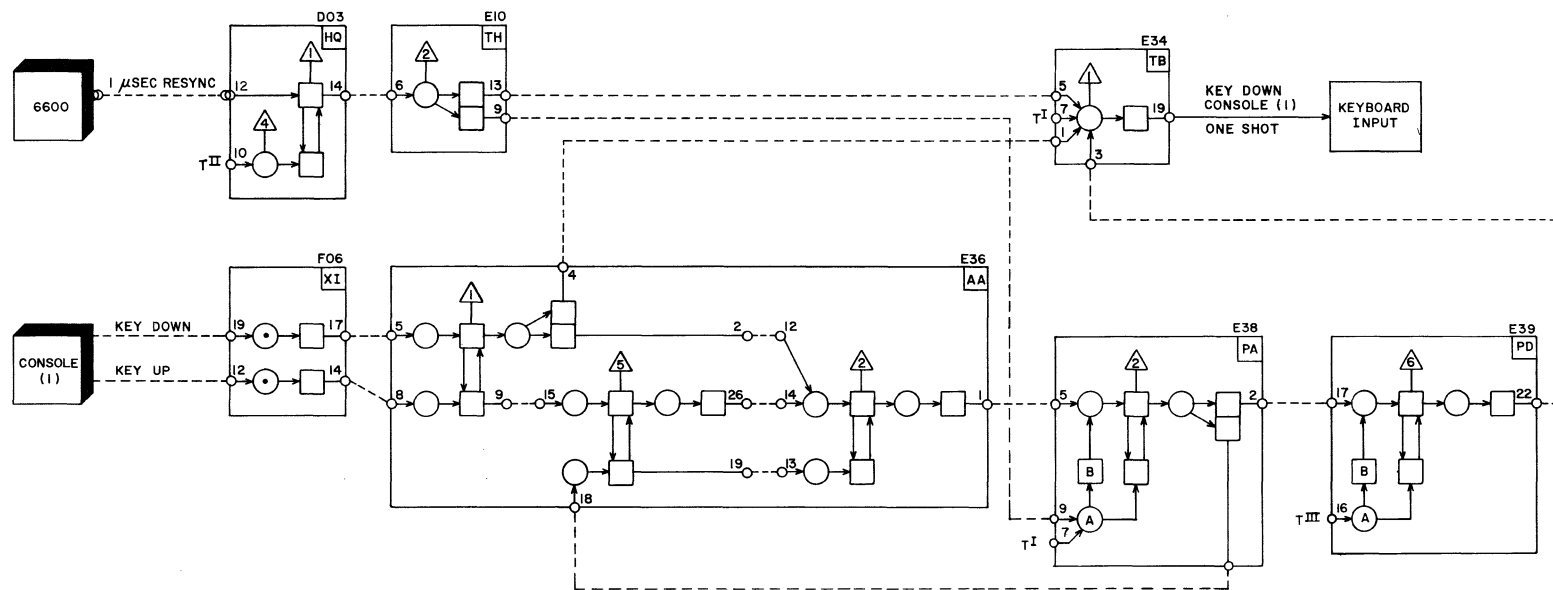
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A	01	I	11	Q	21	Y	31	6	41	C	51
B	02	J	12	R	22	Z	32	7	42	□	52
C	03	K	13	S	23	□	33	8	43		
D	04	L	14	T	24	l	34	9	44	=	54
E	05	M	15	U	25	2	35	+	45		
F	06	N	16	V	26	3	36	-	46	,	56
G	07	O	17	W	27	4	37	*	47	.	57


NOTE:
SEE PR. 43-51 OF THIS SECTION.

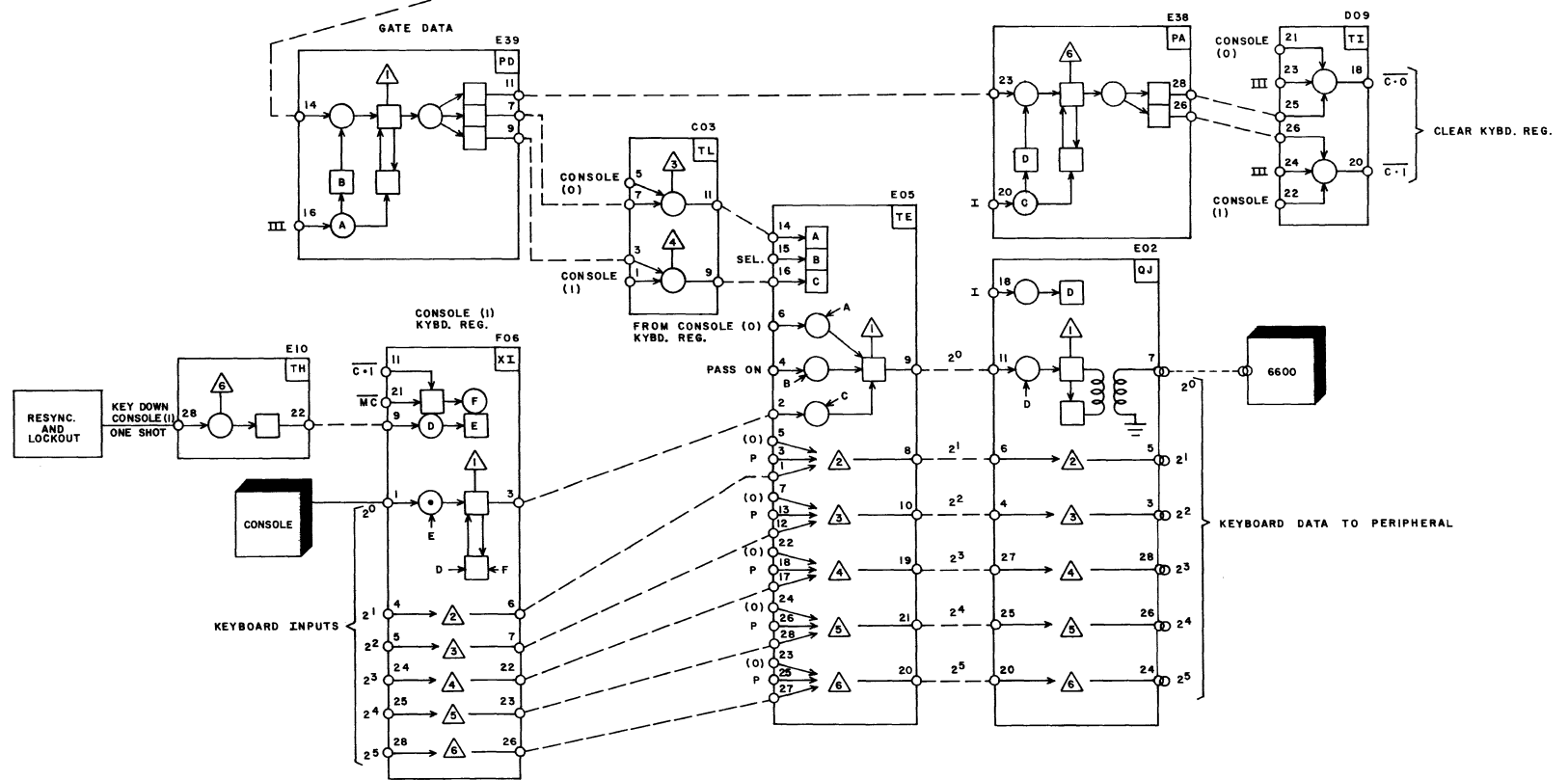
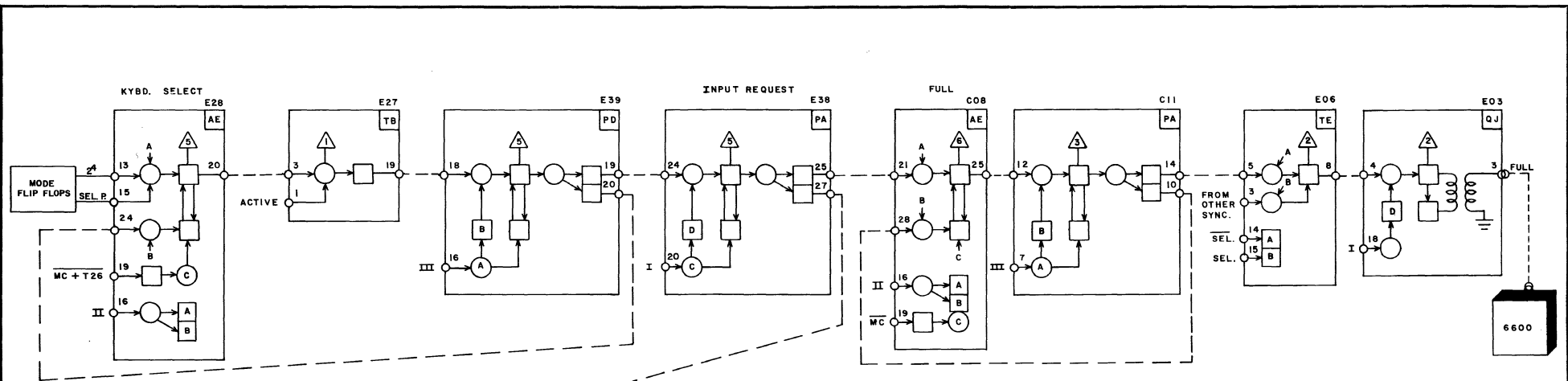


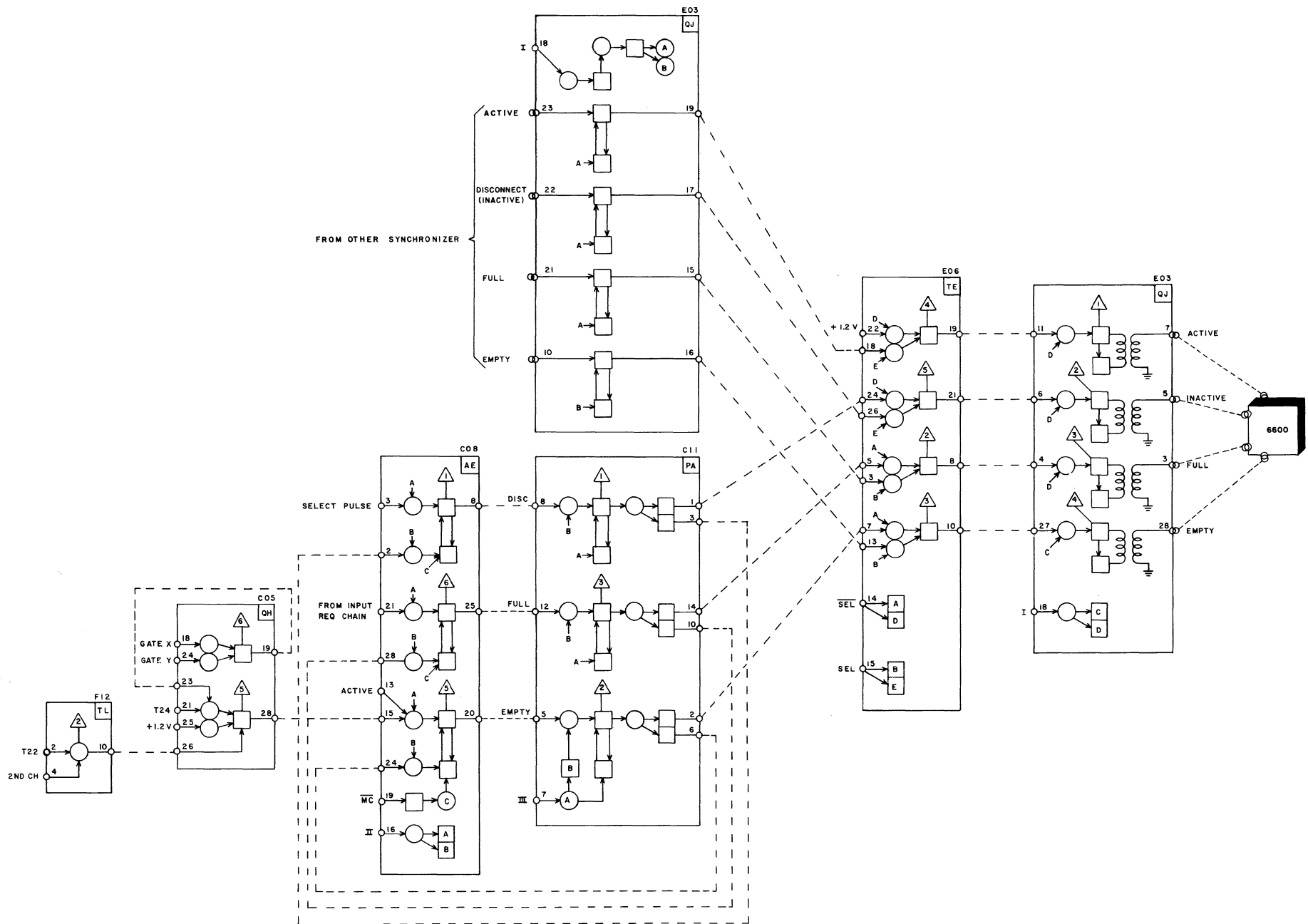


DATA FROM PERIPHERAL PROCESSOR

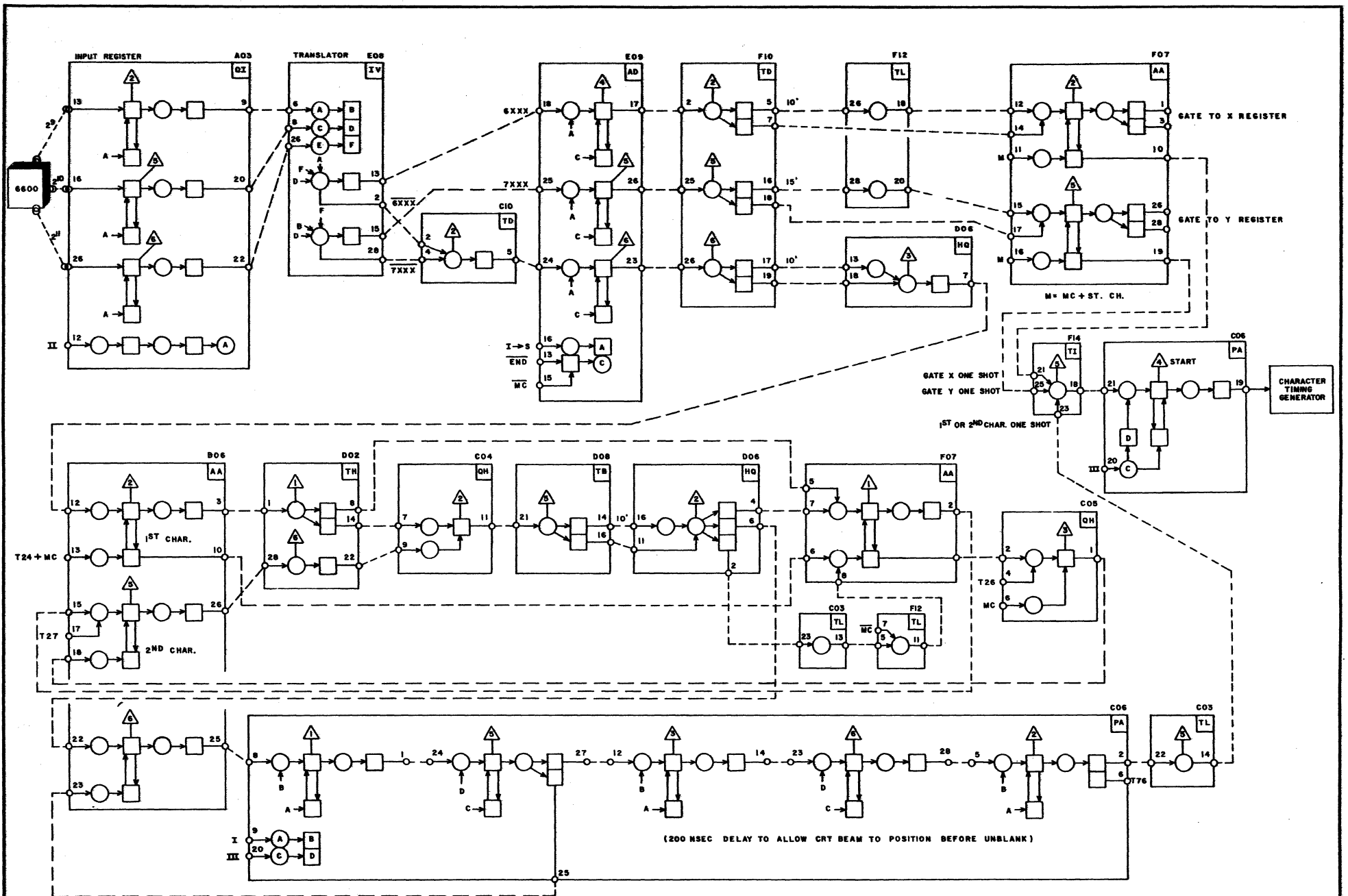


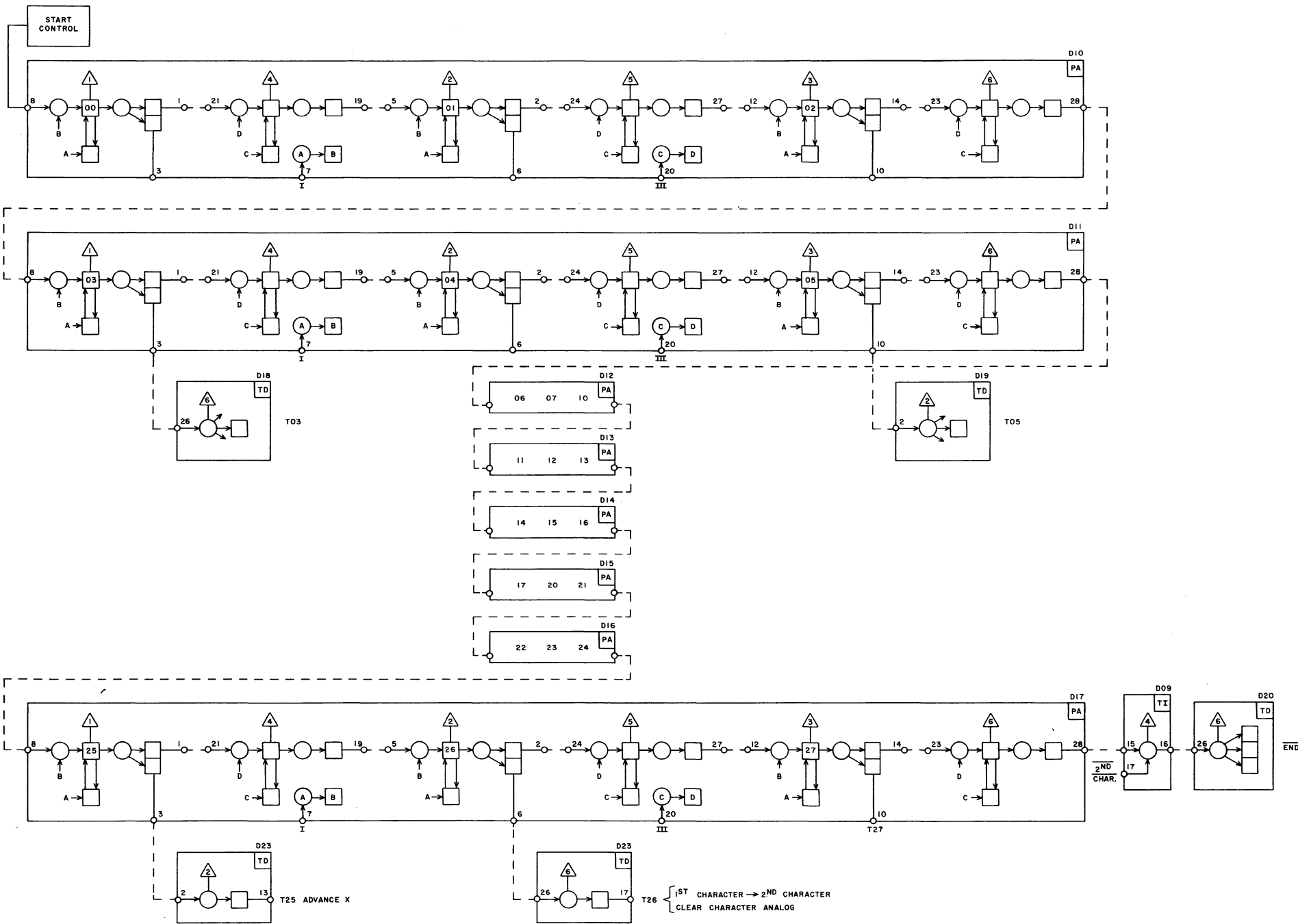
 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE CONSOLE DISPLAY CONTROLLER RESYNC AND LOCKOUT CIRCUITS	PRODUCT 6602	
	SIZE C	DRAWING NO. 60125000	REV C
	SHEET 30	5	

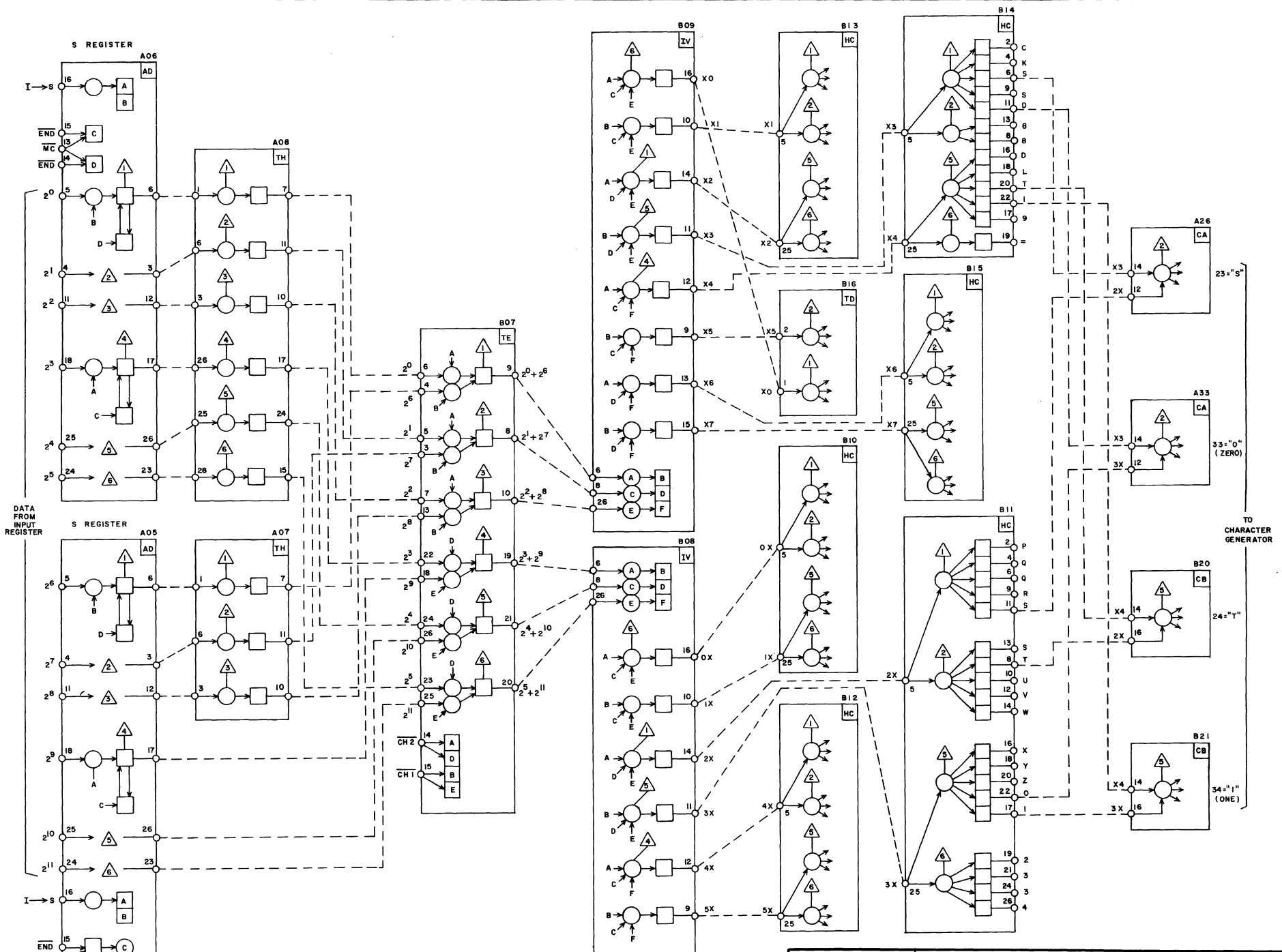


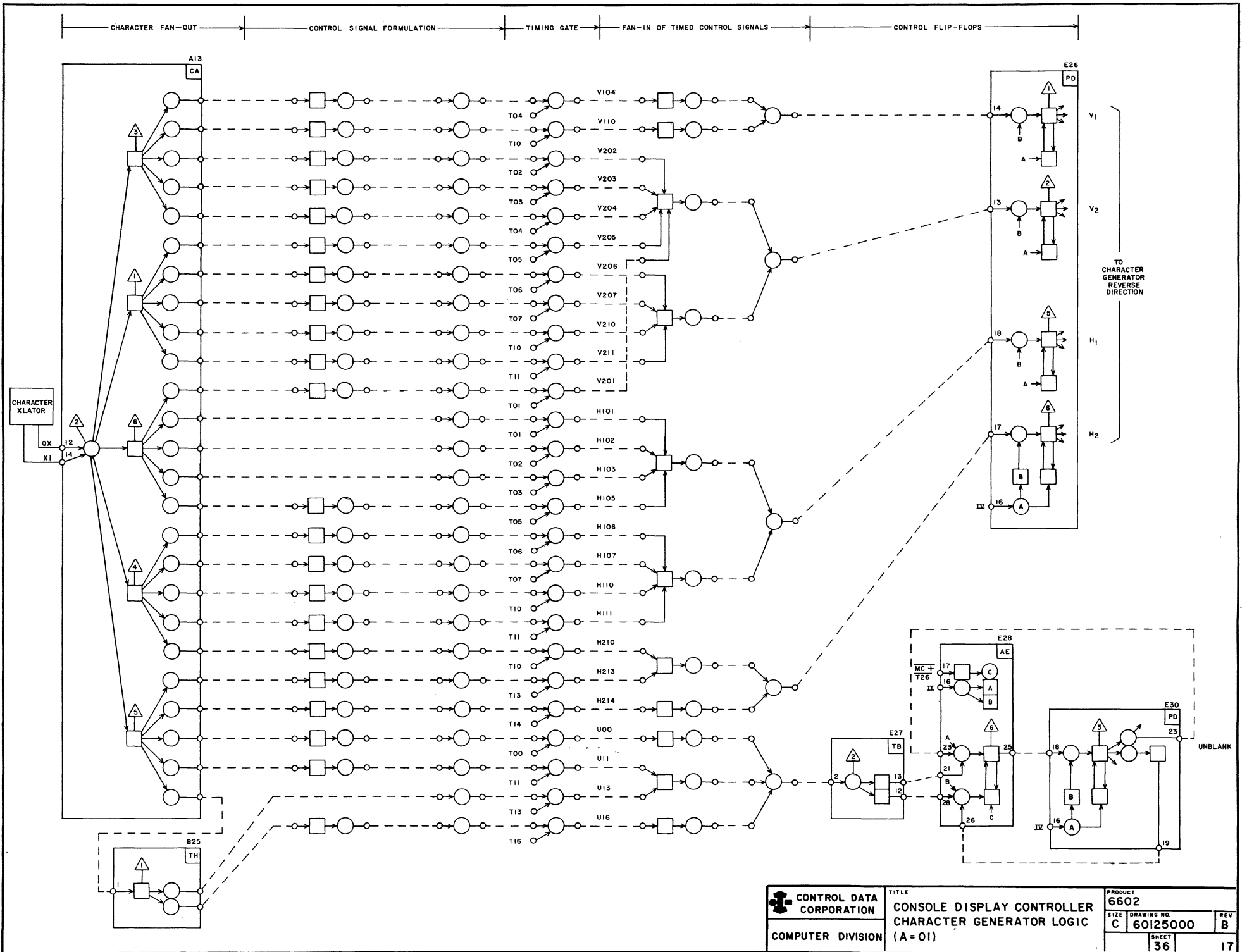


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		SIZE DRAWING NO C 60125000	REV C
		SHEET 32	REV 9

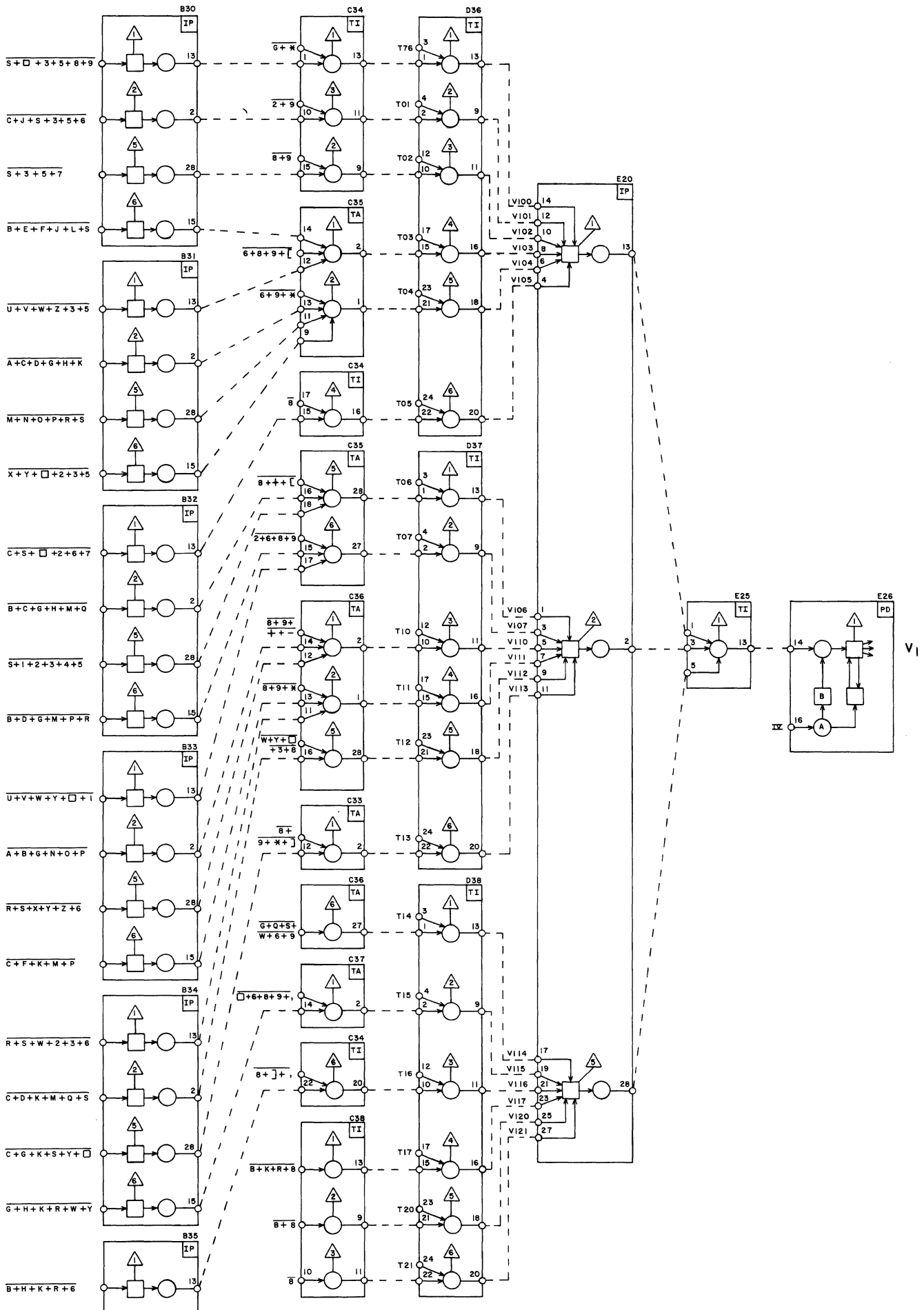








↑
FROM
CHARACTER
TRANSLATOR
↓

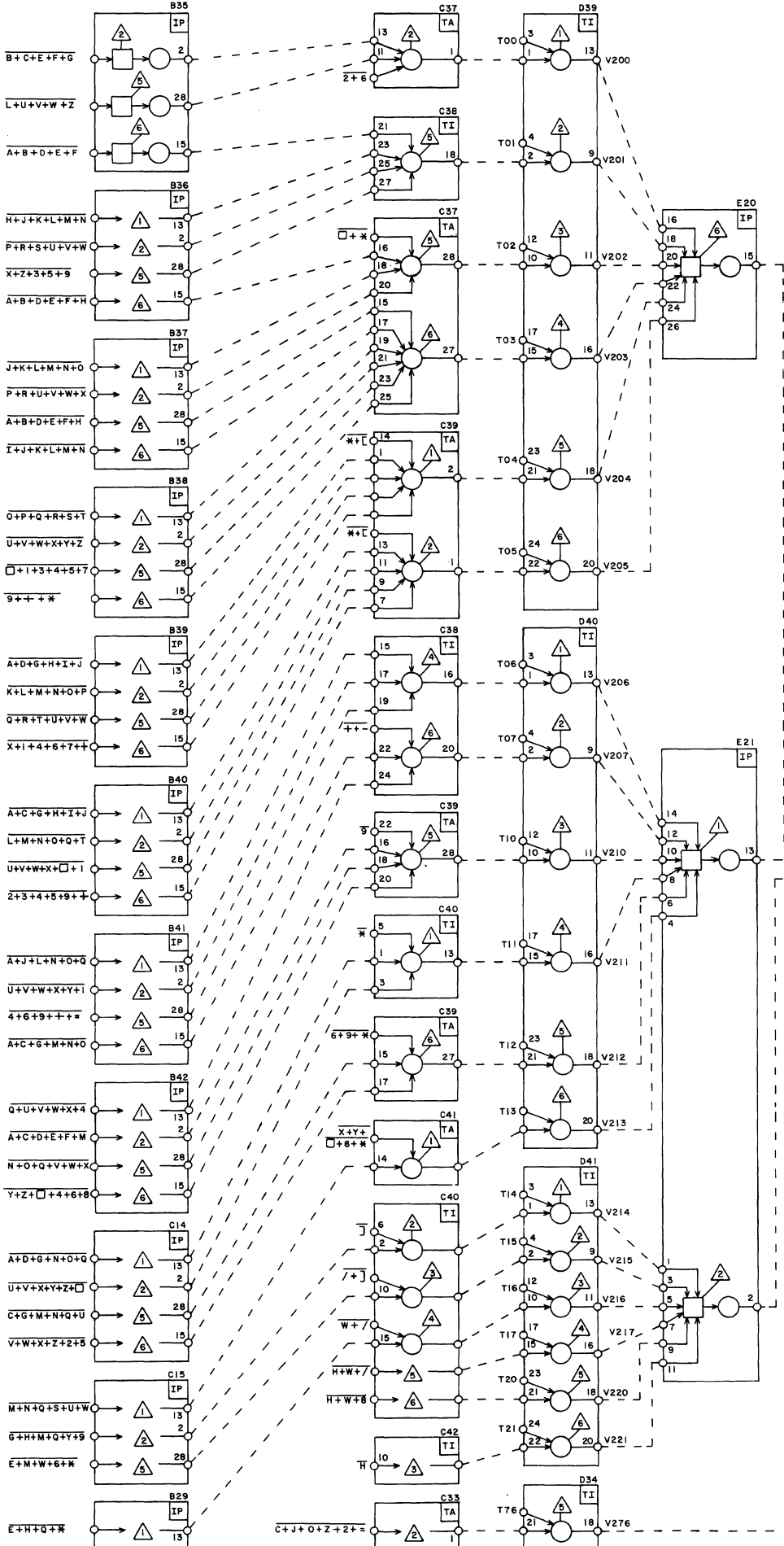


CONTROL DATA
CORPORATION
COMPUTER DIVISION

TITLE
CONSOLE DISPLAY CONTROLLER
CHARACTER GENERATOR, V1

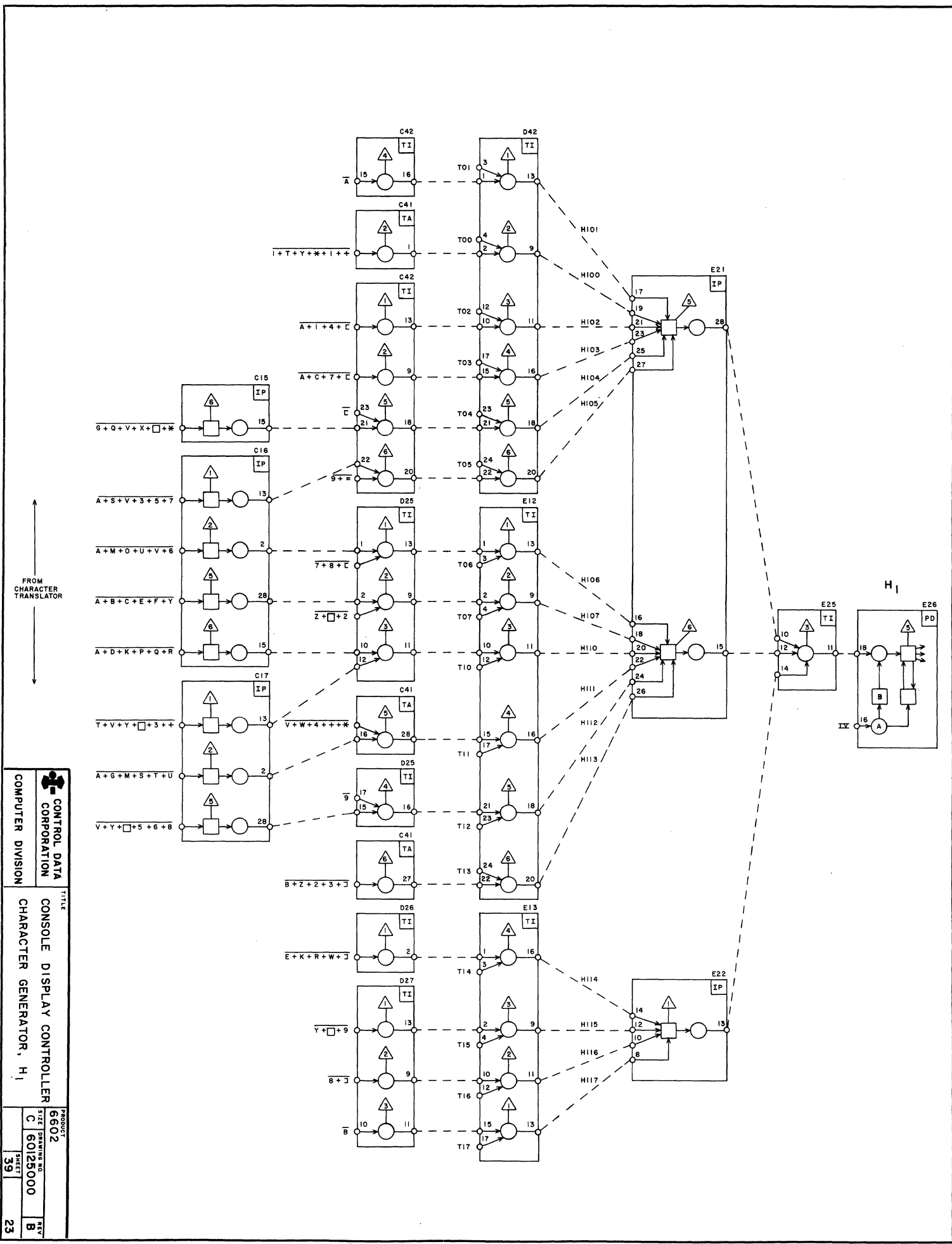
REVISION
6602
SIZE DRAWING NO.
C 60125000
SHEET
37
REV
B
19

FROM CHARACTER TRANSLATOR



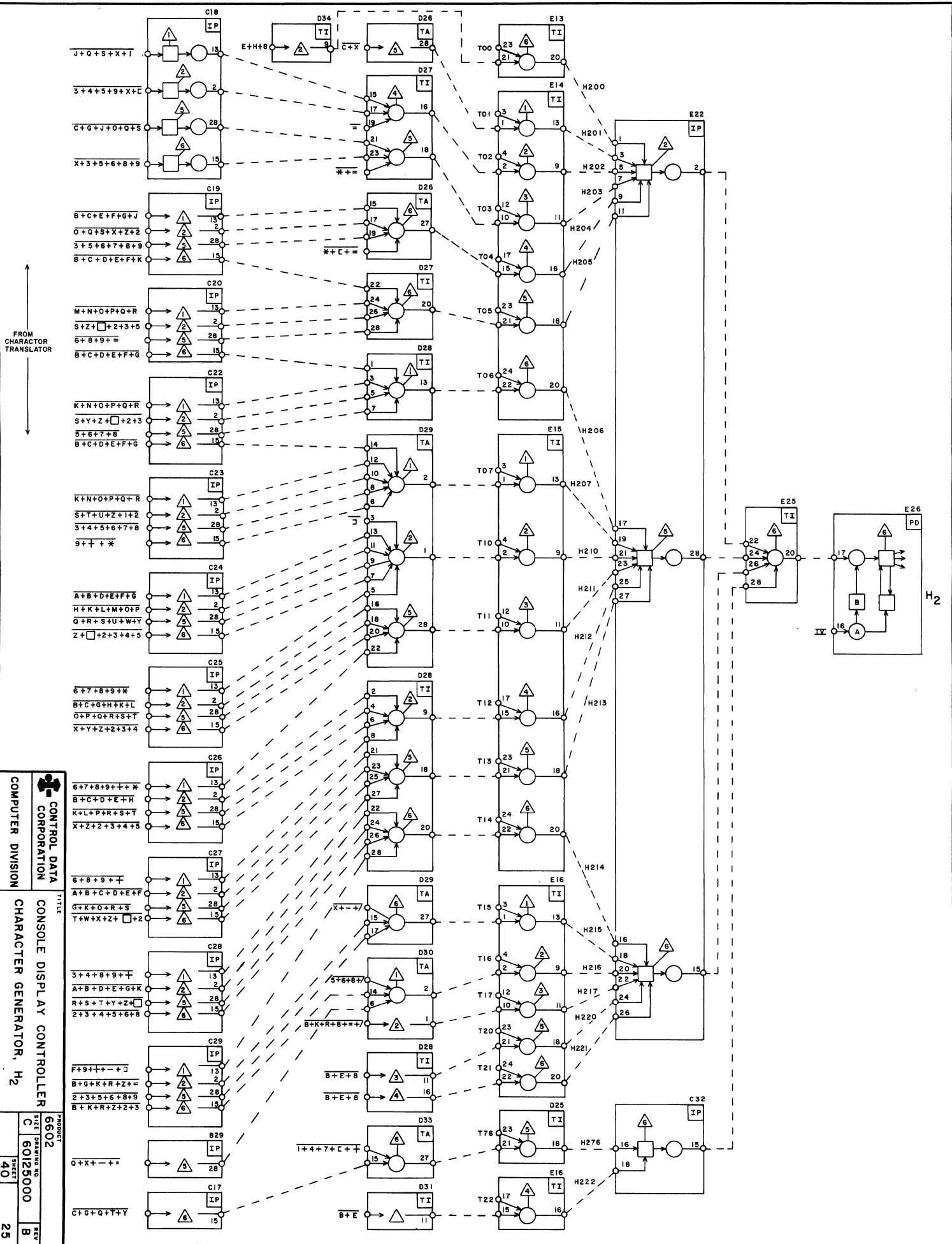
COMPUTER DIVISION
CONTROL DATA CORPORATION
CONSOLE DISPLAY CONTROLLER
CHARACTER GENERATOR, V2
 MODEL 6602
 SIZE DRAWING NO. C 60125000
 SHEET 38
 REV B
 21

V2



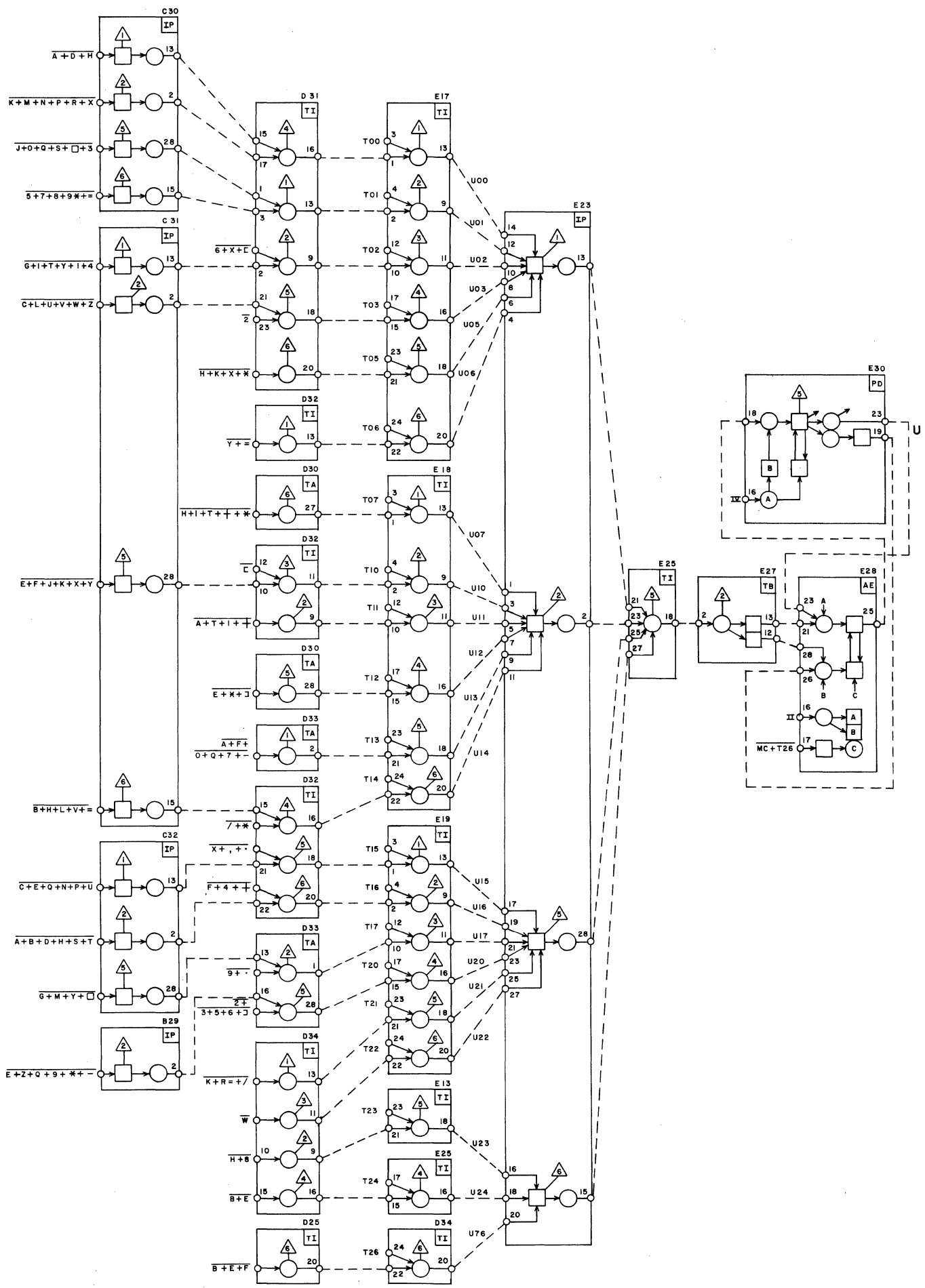
CONTROL DATA CORPORATION
COMPUTER DIVISION
PRODUCT 6602
TEST DRAWING NO. C 60125000
SHEET 39
REV. B
23

TITLE
CONSOLE DISPLAY CONTROLLER
CHARACTER GENERATOR, H1

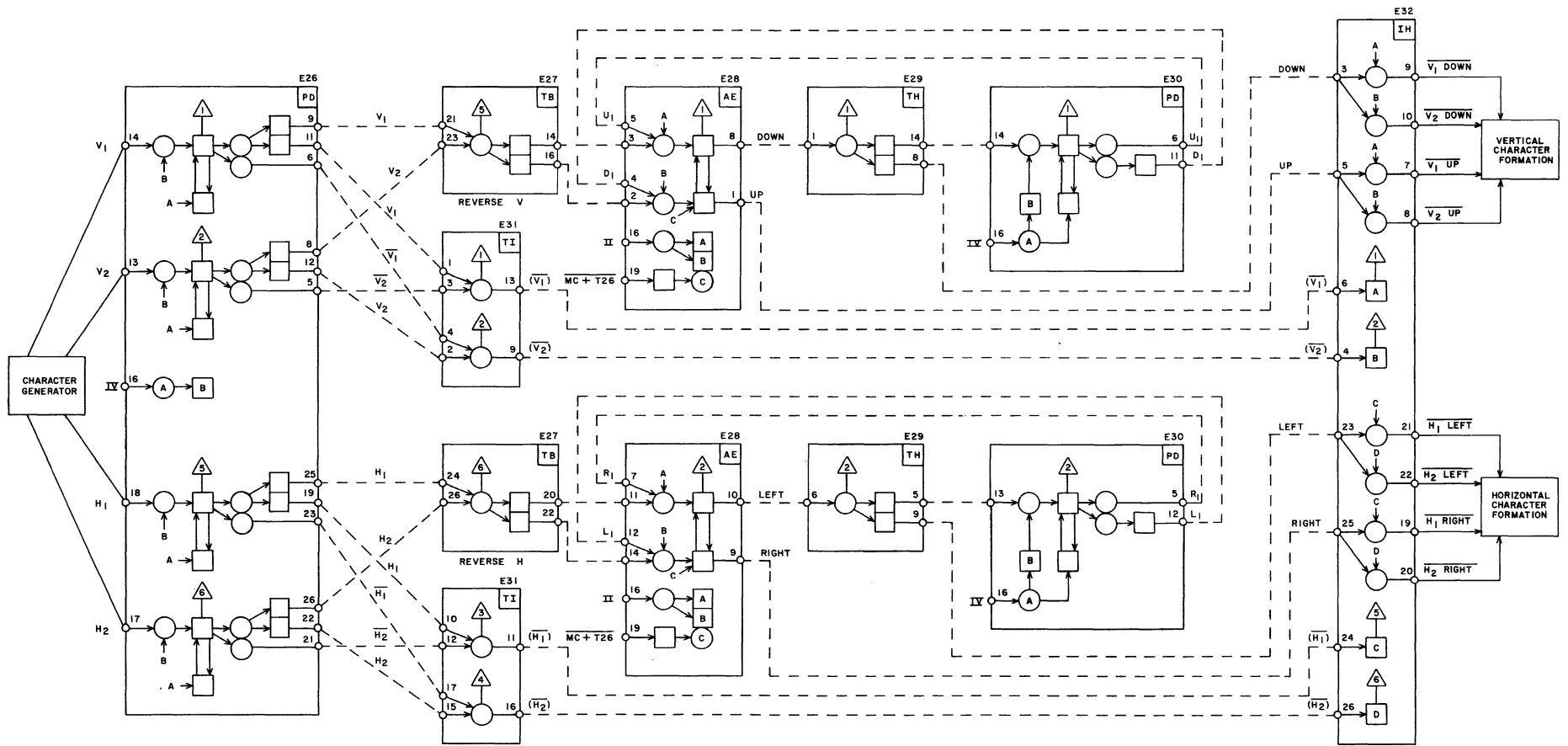


FROM CHARACTER TRANSLATOR
 COMPUTER DIVISION
 CONTROL DATA CORPORATION
 TITLE
 CONSOLE DISPLAY CONTROLLER
 CHARACTER GENERATOR, H₂
 PRODUCT 6602
 TIME DRAWING NO. C 60125000
 SHEET 40
 25

FROM CHARACTER TRANSLATOR



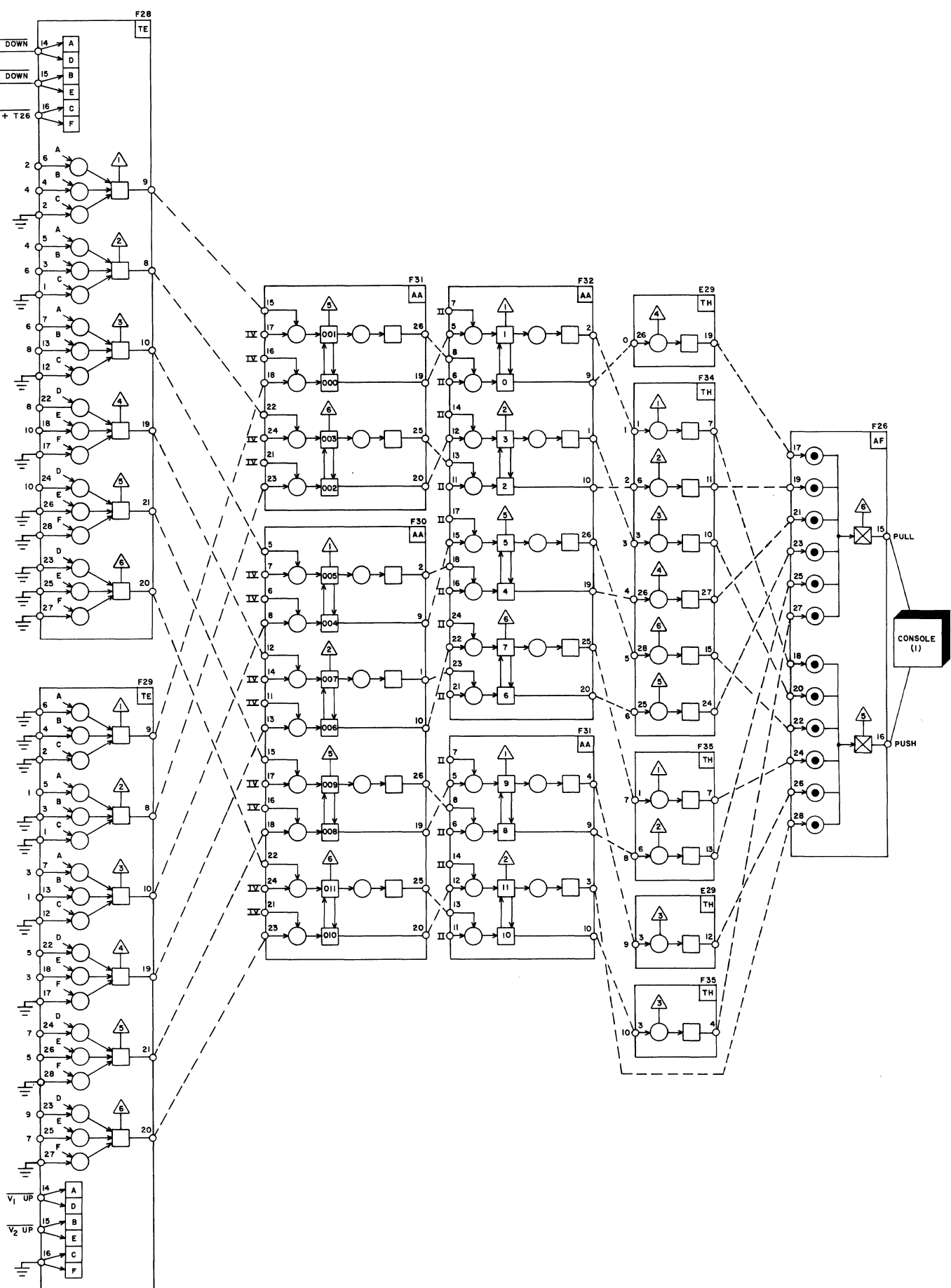
CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE CONSOLE DISPLAY CONTROLLER CHARACTER GENERATOR, UNBLANK	PRODUCT 602
		SIZE (DRAWING NO.) C 60125000
SHEET 41	REV B	DATE 27




CONTROL DATA CORPORATION
 COMPUTER DIVISION

TITLE
CONSOLE DISPLAY CONTROLLER
CHARACTER GENERATOR,
REVERSE DIRECTION

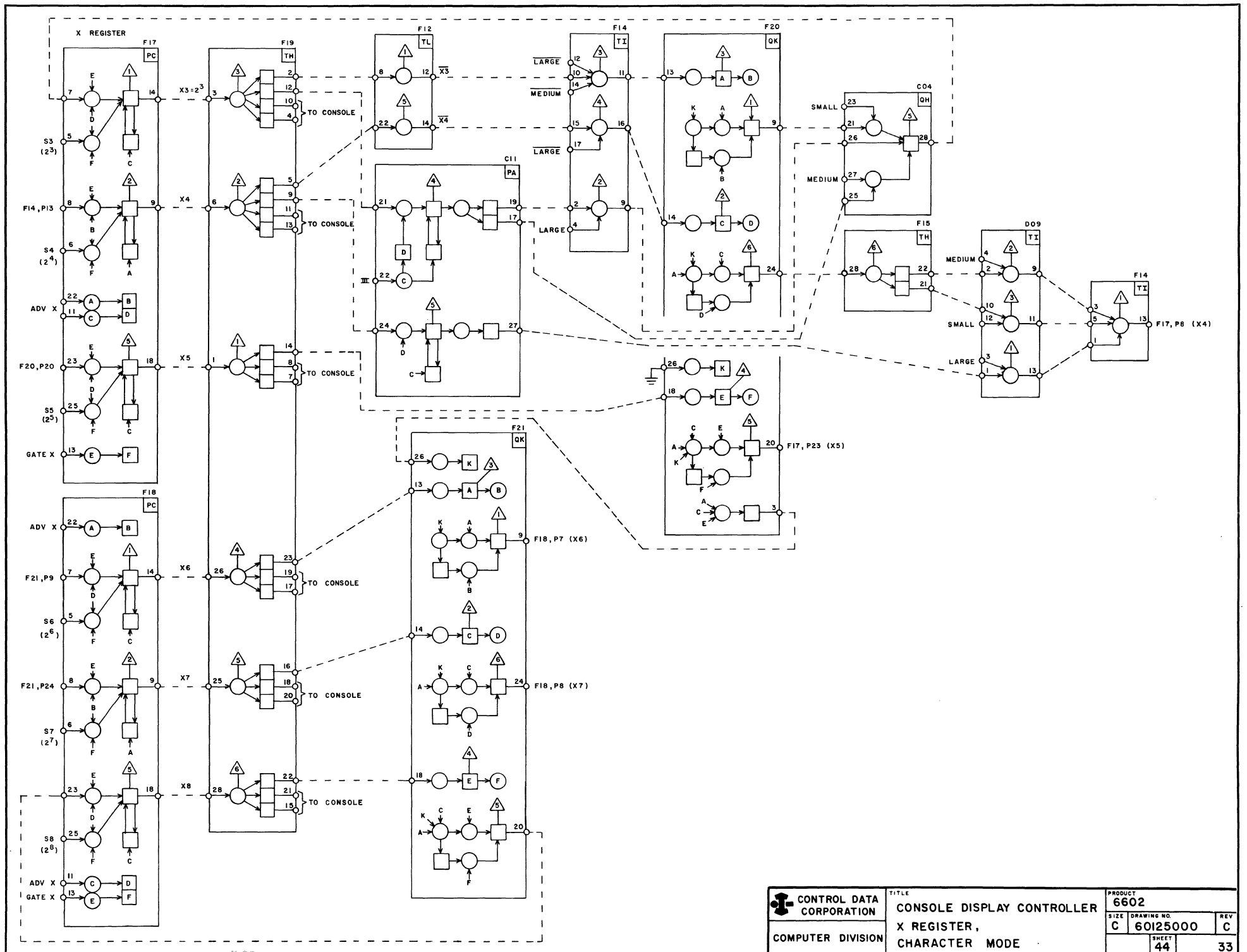
PRODUCT	6602	
SIZE	DRAWING NO	REV
C	60125000	
SHEET	42	29



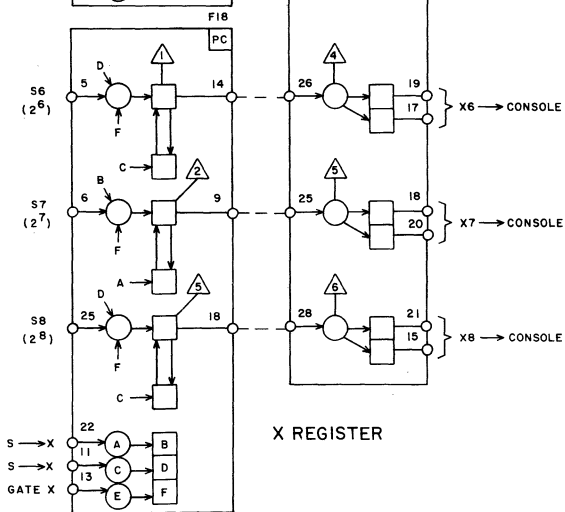
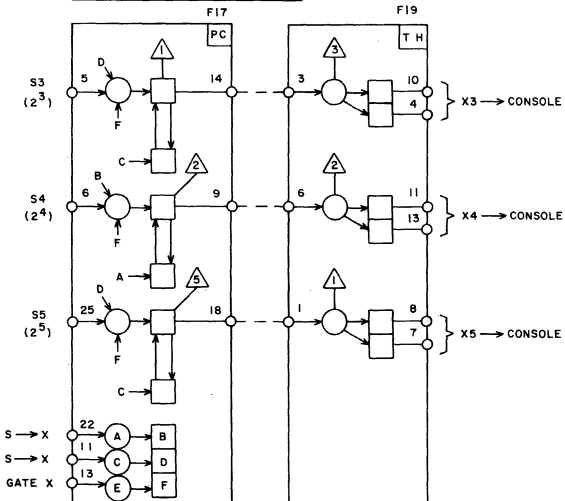
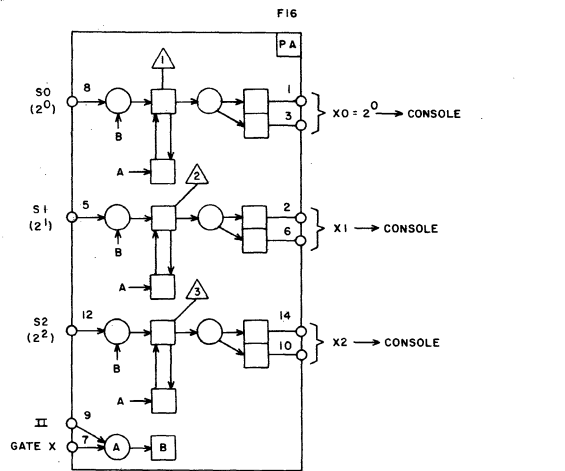
CONTROL DATA CORPORATION
COMPUTER DIVISION
6602
STEEL BUILDING
C 60125000
REVISION C
31

TITLE
CONSOLE DISPLAY CONTROLLER
VERTICAL CHARACTER FORMATION

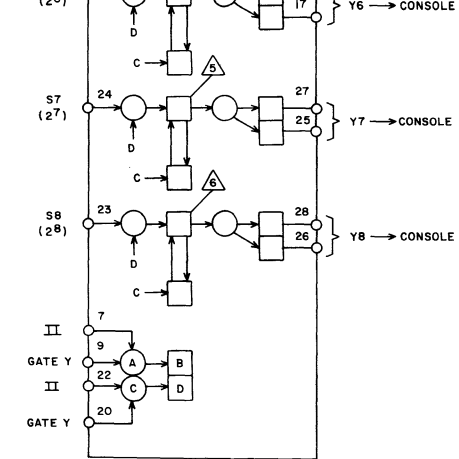
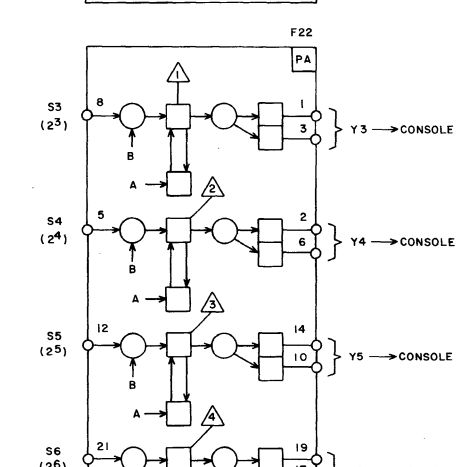
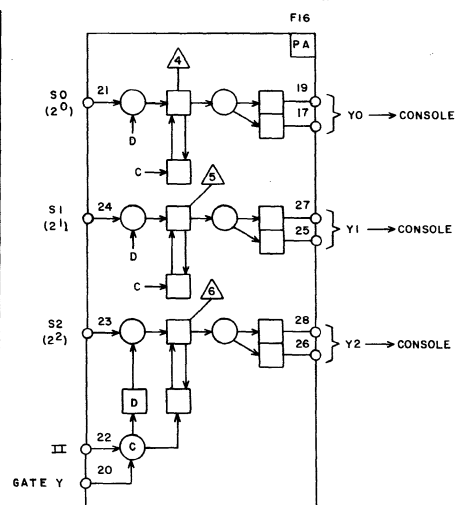
PRODUCT
6602
STEEL BUILDING
C 60125000
REVISION C
31



 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT
	CONSOLE DISPLAY CONTROLLER	6602
	X REGISTER, CHARACTER MODE	
SIZE	DRAWING NO.	REV
C	60125000	C
	SHEET	33
	44	

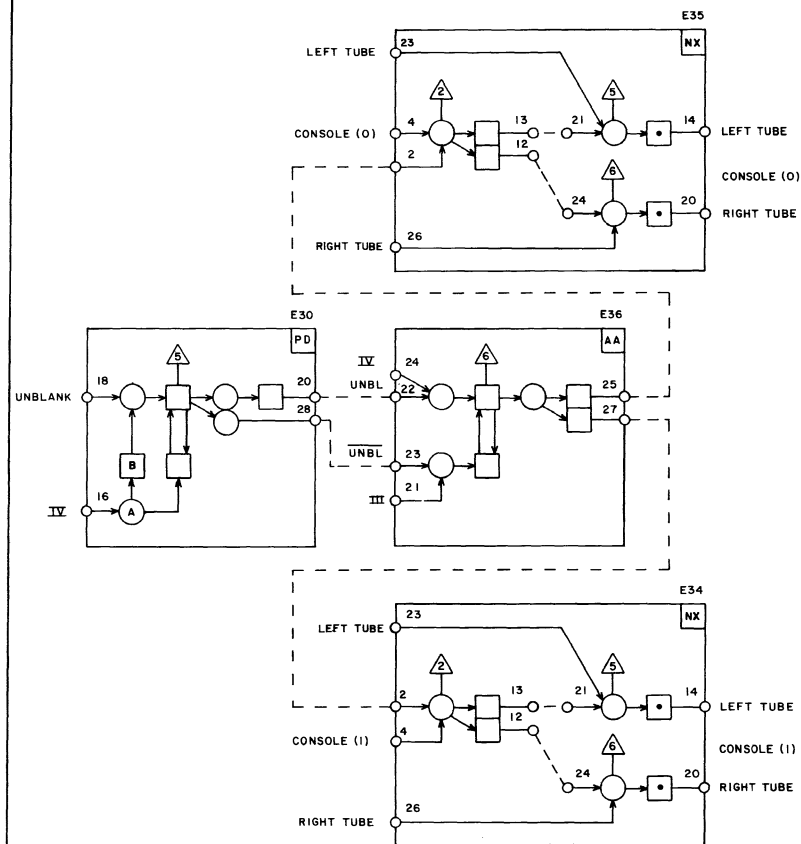


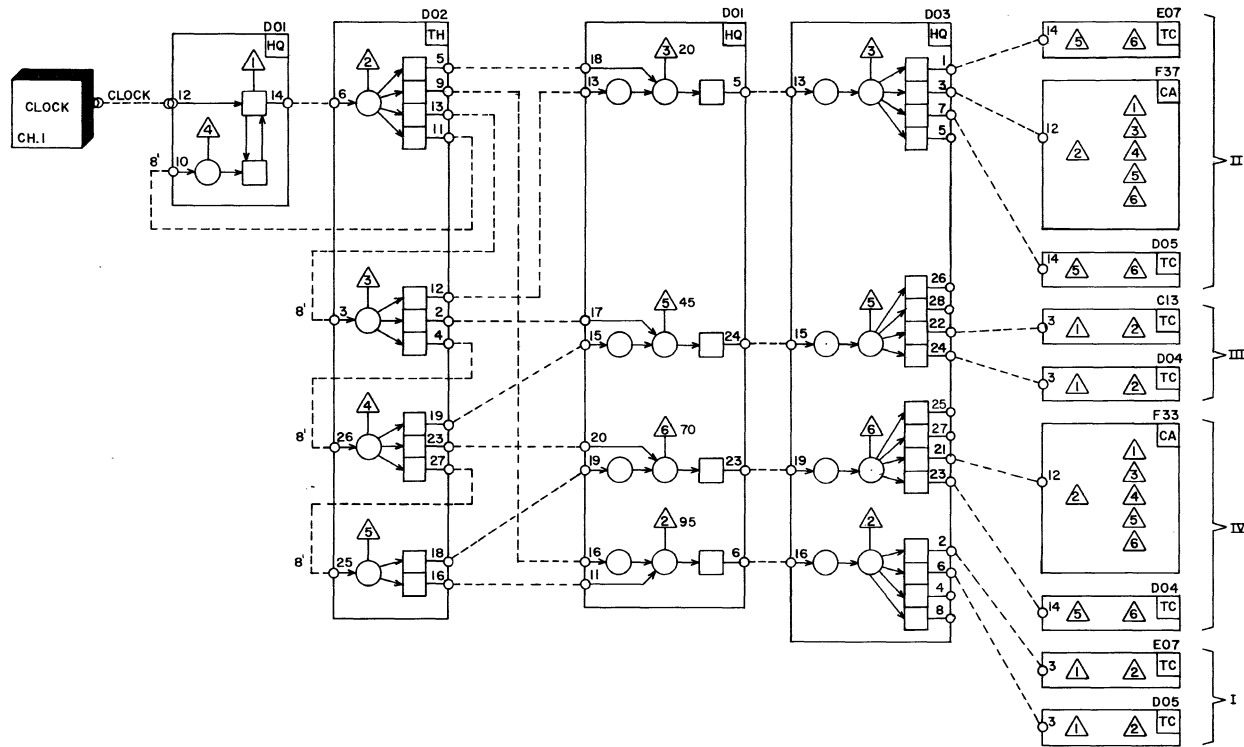
X REGISTER

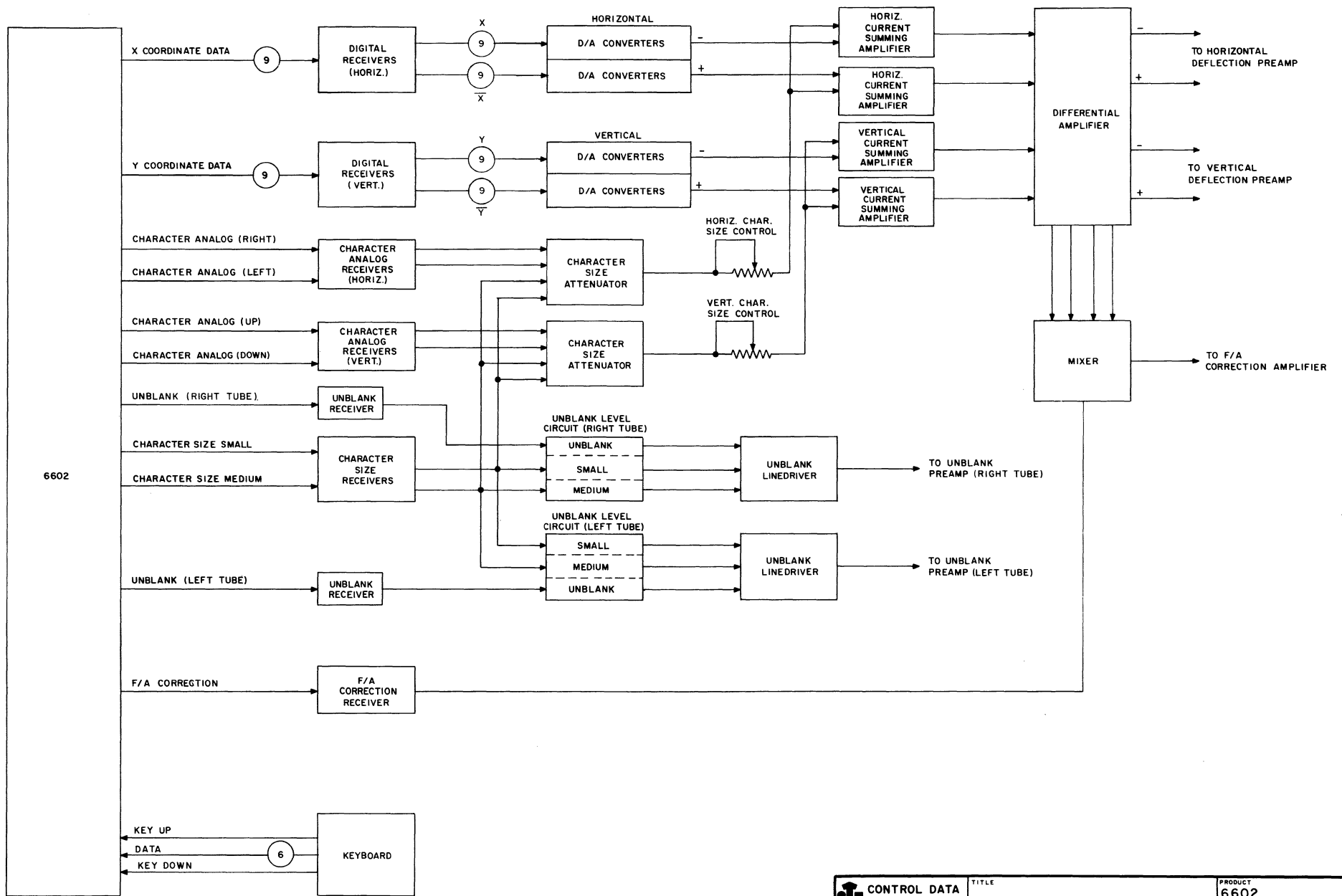


Y REGISTER

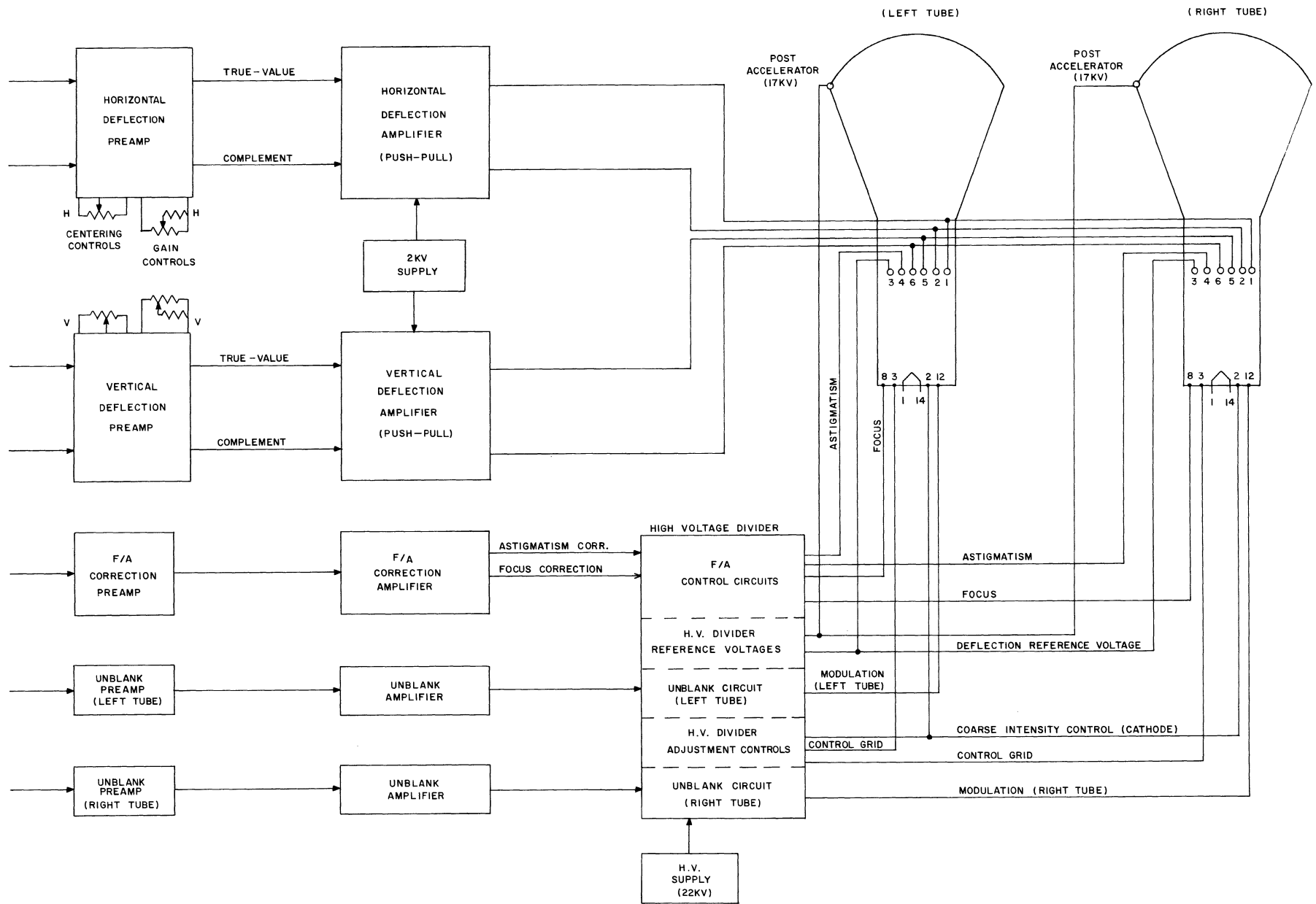
UNBLANK CONTROL



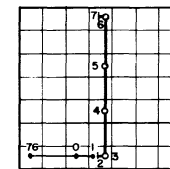
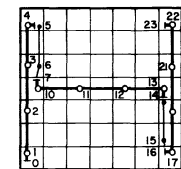
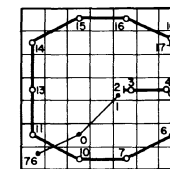
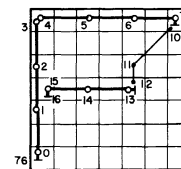
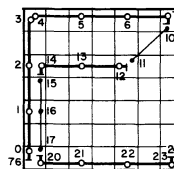
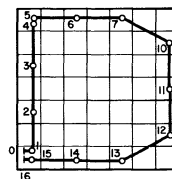
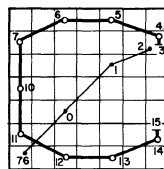
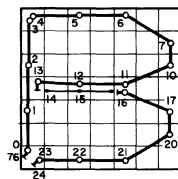
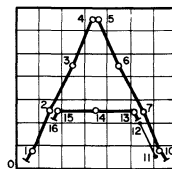




CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	DD60A D/A BLOCK DIAGRAM	PRODUCT 6602
	SIZE C	DRAWING NO. 60125000	REV B
	SHEETS 47		SHEET 39



CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE DD60A MONITOR BLOCK DIAGRAM	PRODUCT 6602	SIZE C	DRAWING NO. 60125000	REV.
			SHEET 48	SHEET 48	REV. 41



A 01		T	V ₁	V ₂	H ₁	H ₂	U
00							X
01		X	X				
02		X	X				
03		X	X				
04		X	X				
05		X	X				
06		X	X				
07		X	X				
10		X	X	X	X		
11		X	X	X	X		
12							
13				X	X		
14				X			
15							
16						X	
17							
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

B 02		T	V ₁	V ₂	H ₁	H ₂	U
76							X
00		X					
01		X					
02		X					
03		X	X				
04		X	X			X	
05		X	X			X	
06		X			X		
07		X	X	X	X		
10		X	X	X	X		
11		X	X	X	X		
12		X	X	X	X		
13		X	X	X	X		
14		X	X	X	X		
15		X	X	X	X		
16		X	X	X	X		
17		X	X	X	X		
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

C 03		T	V ₁	V ₂	H ₁	H ₂	U
76		X	X	X	X		
00		X	X	X	X		
01		X	X	X	X		
02		X	X	X	X		
03		X	X	X	X		
04		X	X	X	X		
05		X	X	X	X		
06		X	X	X	X		
07		X	X	X	X		
10		X	X	X	X		
11		X	X	X	X		
12		X	X	X	X		
13		X	X	X	X		
14		X	X	X	X		
15		X	X	X	X		
16		X	X	X	X		
17		X	X	X	X		
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

D 04		T	V ₁	V ₂	H ₁	H ₂	U
00							X
01		X					
02		X					
03		X					
04		X	X				
05		X	X			X	
06		X	X			X	
07		X	X	X	X		
10		X	X	X	X		
11		X	X	X	X		
12		X	X	X	X		
13		X	X	X	X		
14		X	X	X	X		
15		X	X	X	X		
16		X	X	X	X		X
17		X	X	X	X		
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

E 05		T	V ₁	V ₂	H ₁	H ₂	U
76							X
00		X					
01		X					
02		X					
03		X	X				
04		X	X			X	
05		X	X			X	
06		X	X			X	
07		X	X	X	X		
10		X	X	X	X		
11		X	X	X	X		
12		X	X	X	X		
13		X	X	X	X		
14		X	X	X	X		
15		X	X	X	X		
16		X	X	X	X		X
17		X	X	X	X		
20		X	X	X	X		
21		X	X	X	X		
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23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

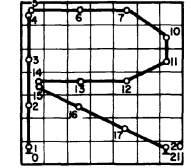
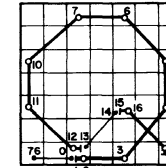
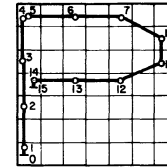
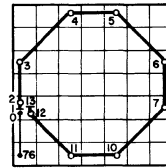
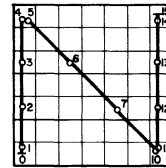
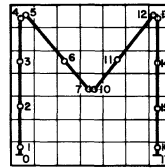
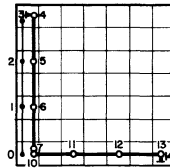
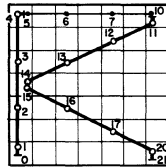
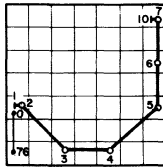
F 06		T	V ₁	V ₂	H ₁	H ₂	U
76							X
00		X					
01		X					
02		X					
03		X	X				
04		X	X			X	
05		X	X			X	
06		X	X			X	
07		X	X	X	X		
10		X	X	X	X		
11		X	X	X	X		
12		X	X	X	X		X
13		X	X	X	X		
14		X	X	X	X		
15		X	X	X	X		
16		X	X	X	X		X
17		X	X	X	X		
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

G 07		T	V ₁	V ₂	H ₁	H ₂	U
76		X					X
00		X	X				
01		X	X				
02		X	X			X	
03		X	X			X	
04		X	X	X	X		
05		X	X	X	X		
06		X	X	X	X		
07		X	X	X	X		
10		X	X	X	X		
11		X	X	X	X		
12		X	X	X	X		
13		X	X	X	X		
14		X	X	X	X		
15		X	X	X	X		
16		X	X	X	X		
17		X	X	X	X		X
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		
24		X	X	X	X		
25		X	X	X	X		

H 10		T	V ₁	V ₂	H ₁	H ₂	U
00							X
01		X					
02		X					
03		X					
04		X	X				
05		X	X			X	
06		X	X			X	
07		X	X	X	X		X
10		X	X	X	X		
11		X	X	X	X		X
12		X	X	X	X		X
13		X	X	X	X		
14		X	X	X	X		X
15		X	X	X	X		
16		X	X	X	X		X
17		X	X	X	X		
20		X	X	X	X		
21		X	X	X	X		
22		X	X	X	X		
23		X	X	X	X		X
24		X	X	X	X		
25		X	X	X	X		

I 11		T	V ₁	V ₂	H ₁	H ₂	U
76							X
00						X	
01							
02							X
03		X					
04		X					
05		X					
06		X					
07		X					X
10		X					
11		X					
12		X					
13		X					
14		X					
15		X					
16		X					
17		X					
20		X					
21		X					
22		X					
23		X					
24		X					
25		X					

CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT		REV
	CONSOLE DISPLAY CONTROLLER CHARACTER GENERATION & FORMATION	6602	B	
	SIZE	DRAWING NO.	SHEET	
	C	60125000	75	43



J	12				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					X
01	X	X			X
02	X	X	X		
03	X	X	X		
04	X	X	X		
05	X				
06	X				
07					
10					X
11					
12					
13					
14					
15					
16					
17					
20					
21					
22					
23					
24					
25					

K	13				
T	V ₁	V ₂	H ₁	H ₂	U
00					X
01		X			
02		X			
03		X			
04	X	X			
05				X	X
06				X	X
07				X	X
10			X	X	X
11	X		X		
12	X		X		
13	X		X		
14		X	X		
15	X		X		
16	X		X		
17	X		X		
20					
21					X
22					
23					
24					
25					

L	14				
T	V ₁	V ₂	H ₁	H ₂	U
00		X			
01		X			
02		X			
03	X	X			X
04	X				
05	X				
06	X				
07					
10				X	
11				X	
12				X	
13					
14					X
15					
16					
17					
20					
21					
22					
23					
24					
25					

M	15				
T	V ₁	V ₂	H ₁	H ₂	U
00					X
01		X			
02		X			
03		X			
04	X	X			
05	X	X	X		
06	X	X	X		
07	X	X			
10	X	X			X
11	X	X			
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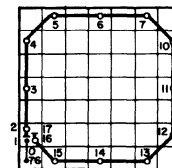
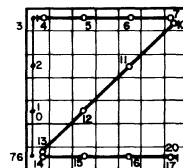
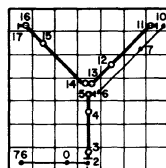
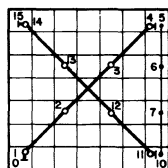
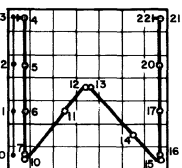
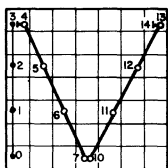
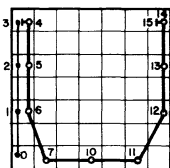
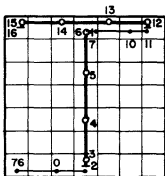
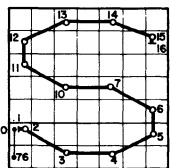
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T	V ₁	V ₂	H ₁	H ₂	U
00					X
01		X			
02		X			
03		X			
04	X	X			
05	X	X	X		
06	X	X	X		
07	X	X	X		
10	X	X			
11	X				
12	X				
13	X				
14					
15					X
16					
17					
20					
21					
22					
23					
24					
25					

O	17				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01					X
02		X			
03	X	X	X		
04	X	X	X		
05	X	X	X		
06	X	X	X		
07	X	X	X		
10	X	X	X		
11	X	X	X		
12					
13					X
14					
15					
16					
17					
20					
21					
22					
23					
24					
25					

P	20				
T	V ₁	V ₂	H ₁	H ₂	U
00					X
01		X			
02		X			
03	X				
04	X	X			
05				X	
06				X	
07	X			X	
10	X	X	X	X	
11	X	X	X	X	
12	X	X	X	X	
13				X	
14					
15					X
16					
17					
20					
21					
22					
23					
24					
25					

Q	21				
T	V ₁	V ₂	H ₁	H ₂	U
76				X	
00					X
01					X
02				X	X
03	X	X	X		
04	X	X	X		
05	X	X	X		
06	X	X	X		
07	X	X	X		
10	X	X	X		
11	X	X	X		
12	X	X	X		
13	X	X	X	X	
14	X	X			
15					X
16	X	X	X		
17					
20					X
21					
22					
23					
24					
25					

R	22				
T	V ₁	V ₂	H ₁	H ₂	U
00					X
01		X			
02		X			
03	X				
04	X	X			
05					X
06					X
07	X				X
10	X	X	X		
11	X	X	X		
12					X
13					X
14		X	X		
15	X				X
16	X				X
17	X				X
20					
21					X
22					
23					
24					
25					



S 23

T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01	X	X			X
02	X			X	
03	X	X	X		
04	X			X	
05	X		X	X	
06	X			X	
07					X
10	X				X
11	X	X	X		
12	X	X	X		
13	X	X	X		
14	X			X	
15					
16					X
17					
20					
21					
22					
23					
24					
25					

T 24

T	V ₁	V ₂	H ₁	H ₂	U
76					X
00			X		
01					
02					X
03	X				
04	X				
05	X				
06					
07				X	X
10			X		
11		X	X	X	
12		X			
13		X			
14		X			
15					X
16					
17					
20					
21					
22					
23					
24					
25					

U 25

T	V ₁	V ₂	H ₁	H ₂	U
00			X		
01		X			
02		X			
03	X	X			X
04	X	X			
05		X			
06		X	X		
07	X	X		X	
10				X	
11		X	X		
12		X			
13		X			
14					
15					X
16					
17					
20					
21					
22					
23					
24					
25					

V 26

T	V ₁	V ₂	H ₁	H ₂	U
00			X		
01		X			
02		X			
03	X	X			X
04		X	X		
05		X	X		
06		X	X		
07	X	X			
10		X	X		
11		X	X		
12		X	X		
13					
14					X
15					
16					
17					
20					
21					
22					
23					
24					
25					

W 27

T	V ₁	V ₂	H ₁	H ₂	U
00			X		
01		X			
02		X			
03	X	X			X
04		X			
05		X			
06		X			
07	X	X			
10		X	X		
11	X	X			
12	X	X			
13		X	X		
14	X	X			
15	X	X			
16		X			
17		X			
20		X			
21					
22					X
23					
24					
25					

X 30

T	V ₁	V ₂	H ₁	H ₂	U
00					X
01		X	X		
02		X	X		
03		X	X		
04	X	X	X	X	
05	X				X
06	X				
07	X				
10	X	X			X
11	X	X			
12	X	X			
13	X	X			
14					
15					X
16					
17					
20					
21					
22					
23					
24					
25					

Y 31

T	V ₁	V ₂	H ₁	H ₂	U
76					X
00			X		
01					
02					X
03		X			
04	X				
05					
06	X	X	X	X	
07	X	X	X	X	
10	X	X	X	X	
11	X	X	X	X	
12	X	X			
13	X	X			
14		X	X		
15	X	X			
16					
17					X
20					
21					
22					
23					
24					
25					

Z 32

T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01		X			
02		X			
03	X	X			X
04			X		
05			X		
06			X		
07			X	X	
10	X	X			
11	X	X			
12	X	X			
13		X	X		
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15			X		
16			X		
17					
20					X
21					
22					
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24					
25					

O 33

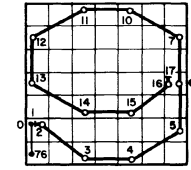
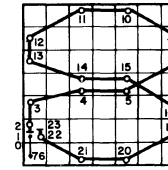
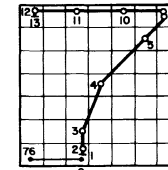
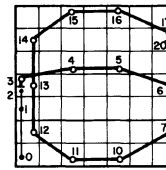
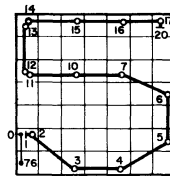
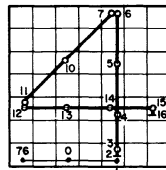
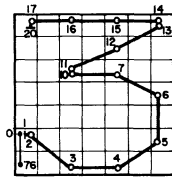
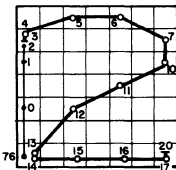
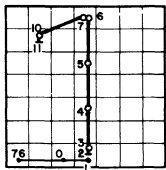
T	V ₁	V ₂	H ₁	H ₂	U
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00					
01					X
02	X				
03	X	X	X		
04	X	X	X		
05	X	X	X		
06	X				X
07	X	X	X		
10	X	X	X		
11	X	X	X		
12	X	X	X		
13	X	X	X		
14	X	X	X		
15	X	X	X		
16	X				
17	X	X	X		X
20	X	X	X		
21	X	X	X		
22	X	X	X		
23	X	X	X		
24	X	X	X		
25	X	X	X		

CONTROL DATA CORPORATION
COMPUTER DIVISION

PRODUCT
6602
CONSOLE DISPLAY CONTROLLER
CHARACTER GENERATION
& FORMATION

SIZE C
DRAWING NO 60125000
REVISION B

SHEET 77
REV 47



1	34				
T	V ₁	V ₂	H ₁	H ₂	U
76					X
00			X		
01					
02			X	X	X
03	X				
04	X				
05	X				
06	X	X			
07	X			X	
10					
11					X
12					
13					
14					
15					
16					
17					
20					
21					
22					
23					
24					
25					

2	35				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00	X				
01	X				
02					
03					X
04	X			X	
05	X	X		X	
06	X			X	
07	X		X	X	
10	X		X		
11	X		X		
12	X		X		
13		X	X		
14			X		
15			X		
16			X		
17					
20					X
21					
22					
23					
24					
25					

3	36				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01	X	X			X
02	X			X	
03	X	X		X	
04	X			X	
05		X	X	X	
06	X			X	
07				X	
10			X	X	
11	X		X		
12	X		X		
13		X	X		
14			X		
15			X		
16			X		
17					
20					X
21					
22					
23					
24					
25					

4	37				
T	V ₁	V ₂	H ₁	H ₂	U
76					X
00					X
01					
02			X	X	X
03	X				
04	X				
05	X				
06	X	X			
07	X		X		
10	X		X		
11			X	X	
12			X		
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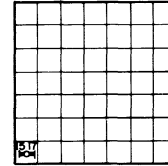
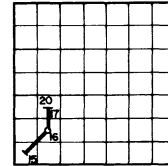
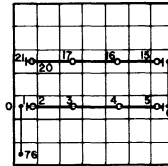
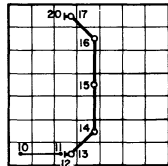
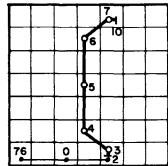
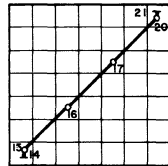
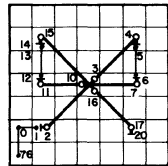
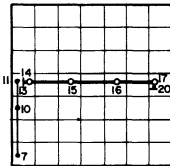
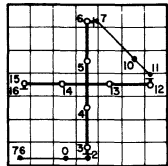
5	40				
T	V ₁	V ₂	H ₁	H ₂	U
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00					
01	X	X			X
02	X			X	
03	X	X		X	
04	X			X	
05		X	X	X	
06	X			X	
07	X			X	
10				X	
11				X	
12		X	X	X	
13					
14				X	
15				X	
16				X	
17					
20					X
21					
22					
23					
24					
25					

6	41				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00		X			
01	X				
02					X
03	X			X	
04	X	X		X	
05	X			X	
06	X	X		X	
07	X			X	
10	X	X		X	
11	X			X	
12	X	X		X	
13	X				
14	X			X	
15	X	X		X	
16	X			X	
17					
20					X
21					
22					
23					
24					
25					

7	42				
T	V ₁	V ₂	H ₁	H ₂	U
76					X
00					
01					X
02	X				
03	X	X		X	
04	X	X		X	
05	X	X		X	
06		X	X		
07	X			X	
10	X			X	
11				X	
12					
13					X
14					
15					
16					
17					
20					X
21					
22					
23					
24					
25					

8	43				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01					X
02	X				
03	X			X	
04				X	
05	X			X	
06	X	X		X	
07	X			X	
10	X	X		X	
11	X			X	
12	X	X		X	
13	X			X	
14				X	
15	X			X	
16	X	X		X	
17	X			X	
20	X	X		X	
21	X			X	
22					
23					X
24					
25					

9	44				
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01	X	X			X
02	X				X
03	X	X			X
04	X				X
05	X	X			X
06	X				
07	X				X
10	X	X			X
11	X				X
12	X	X			X
13	X				X
14	X	X			X
15	X				X
16					
17					X
20	X	X			X
21	X				X
22					
23					
24					
25					



+ 45					
T	V ₁	V ₂	H ₁	H ₂	U
76				X	
00			X		
01					
02					X
03	X				
04	X				
05	X				
06	X	X			
07	X	X	X	X	
10	X	X	X	X	
11			X	X	X
12			X		
13			X		
14			X		
15					
16					X
17					
20					
21					
22					
23					
24					
25					

- 46					
T	V ₁	V ₂	H ₁	H ₂	U
76					
00					
01					
02					
03					
04					
05					
06					
07		X			
10	X				
11					
12					
13					X
14			X		
15			X		
16			X		
17					
20					X
21					
22					
23					
24					
25					

* 47					
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00			X		
01					X
02	X	X	X	X	
03	X	X	X	X	
04	X	X	X	X	
05	X			X	
06					
07				X	X
10			X		
11	X	X	X	X	
12	X			X	
13	X	X			
14				X	
15	X	X			
16	X	X			
17					
20					X
21					
22					
23					
24					
25					

/ 50					
T	V ₁	V ₂	H ₁	H ₂	U
76					
00					
01					
02					
03					
04					
05					
06					
07					
10					
11					
12					
13					
14					X
15	X	X			
16	X	X			
17	X	X			
20					
21					X
22					
23					
24					
25					

(51					
T	V ₁	V ₂	H ₁	H ₂	U
76				X	
00				X	
01					
02			X	X	X
03	X	X	X	X	
04		X	X	X	
05	X	X			
06	X	X			
07					
10				X	
11					
12					
13					
14					
15					
16					
17					
20					
21					
22					
23					
24					
25					

) 52					
T	V ₁	V ₂	H ₁	H ₂	U
76					
00					
01					
02					
03			X	X	X
04			X	X	X
05			X	X	X
06	X	X			
07					
10				X	
11					
12					X
13	X	X			
14		X	X	X	
15		X			
16	X	X			
17					
20					X
21					
22					
23					
24					
25					

= 54					
T	V ₁	V ₂	H ₁	H ₂	U
76	X				
00					
01					X
02				X	
03				X	
04				X	
05		X	X		
06	X			X	
07					
10					
11					
12					
13					
14					X
15				X	
16				X	
17				X	
20					
21					X
22					
23					
24					
25					

, 56					
T	V ₁	V ₂	H ₁	H ₂	U
76					
00					
01					
02					
03					
04					
05					
06					
07					
10					
11					
12					
13					
14					
15	X	X	X		
16	X				
17					
20					X
21					
22					
23					
24					
25					

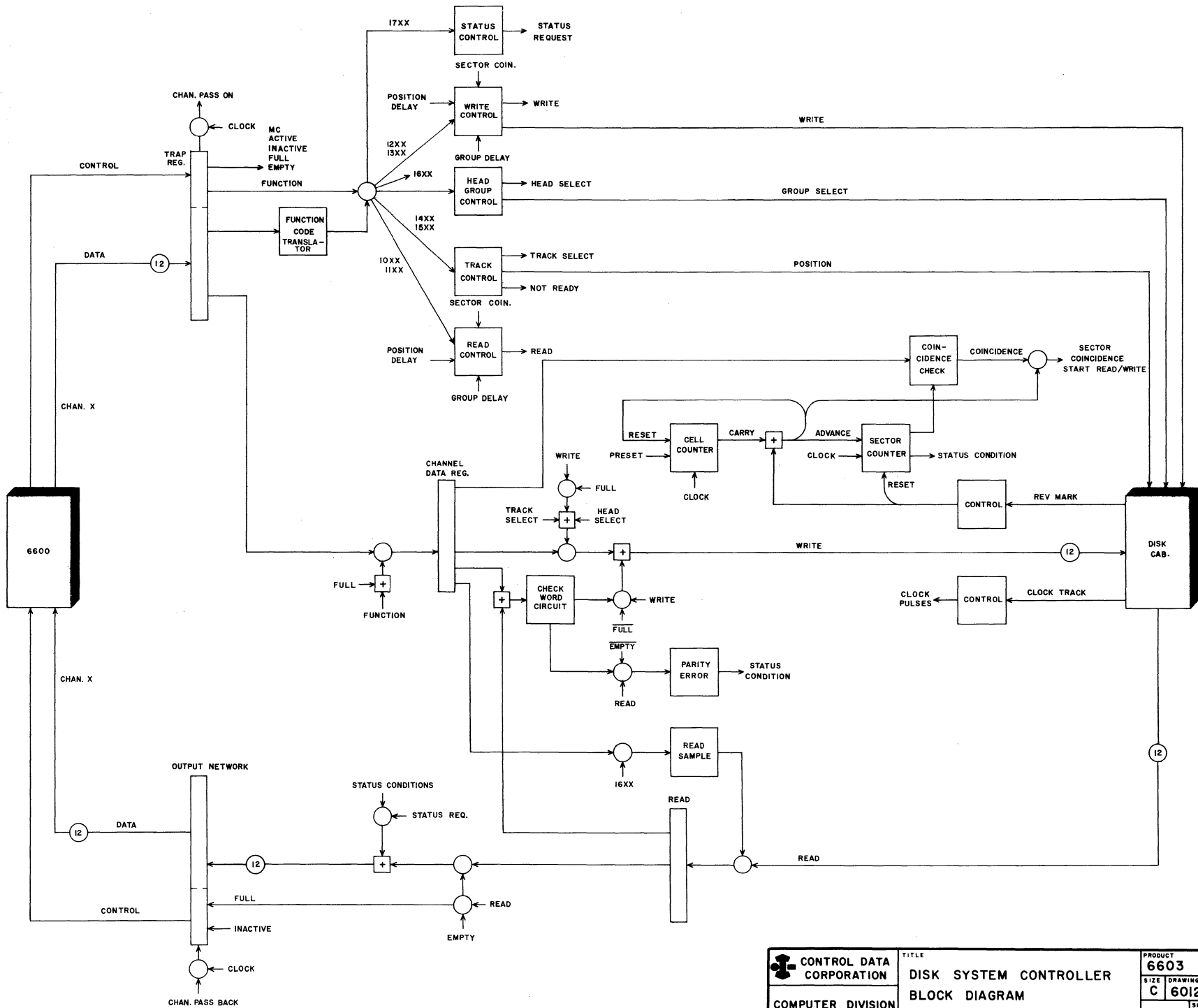
. 57					
T	V ₁	V ₂	H ₁	H ₂	U
76					
00					
01					
02					
03					
04					
05					
06					
07					
10					
11					
12					
13					
14					
15					X
16					
17					X
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21					
22					
23					
24					
25					

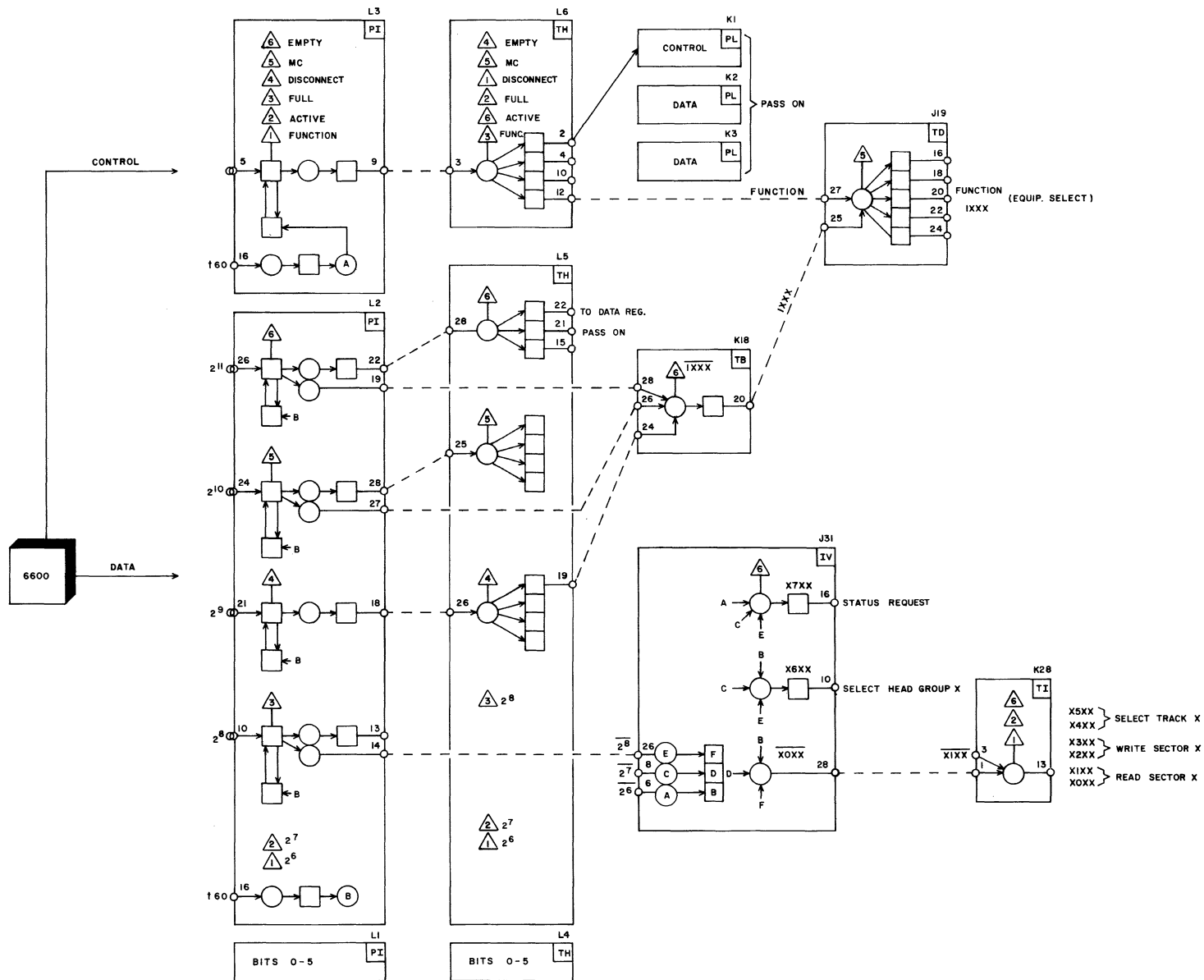
CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE CONSOLE DISPLAY CONTROLLER CHARACTER GENERATION & FORMATION	PRODUCT 6602	SIZE DRAWING NO. C 60125000	REV B
	SHEET 79		SHEET 51	

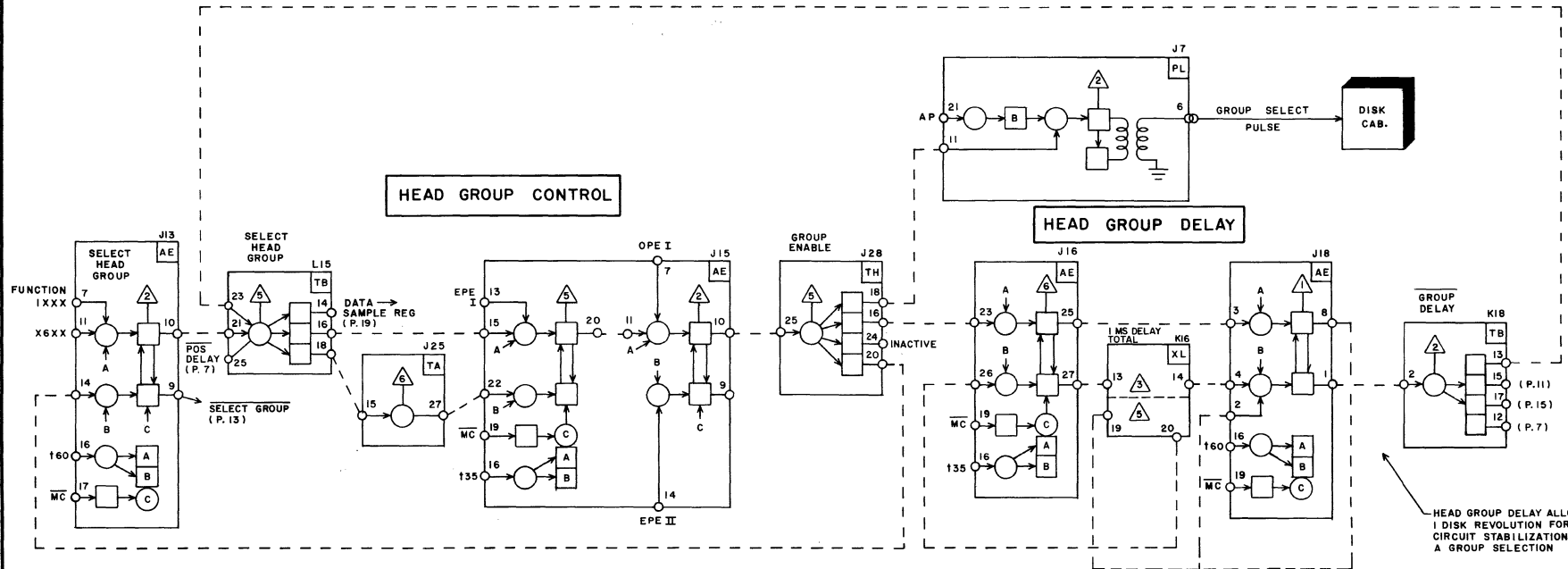
6603 DISK SYSTEM CONTROLLER

CONTENTS

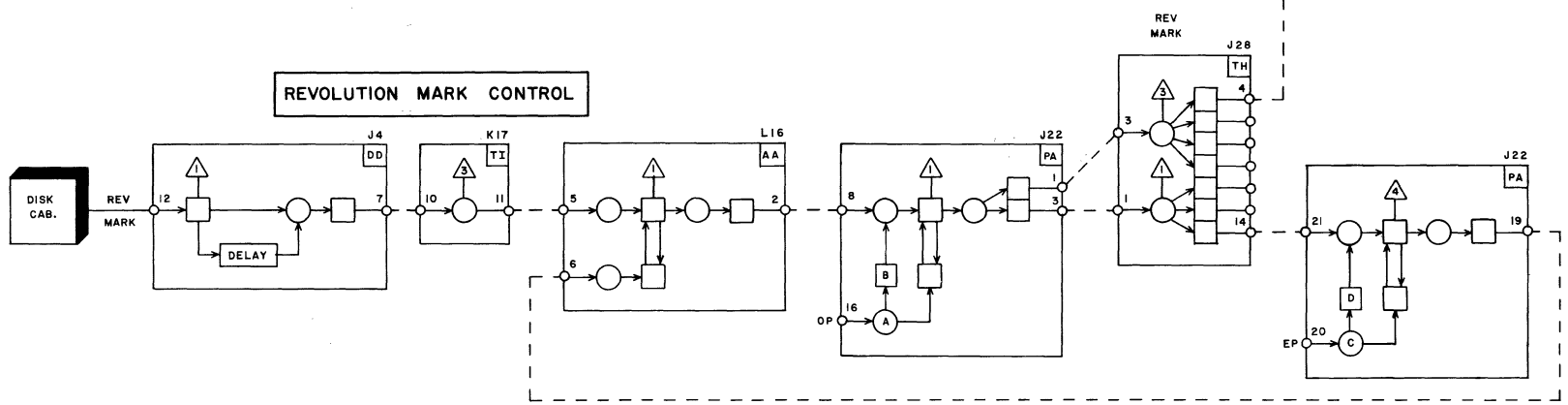
Page	Title	Page	Title
1	Block Diagram	15	Read Control
2	Disk System Controller	16	Read Sequence
3	Function Circuits	17	Read Data Flow
4	Head Group Select	18	Read Sample
5	Head Group Control Revolution Mark Control	19	Read Sample
6	Track Select	21	Fake Clock
7	Track Control	22	Read/Write Check Word
8	Cell & Sector Counters	23	Check Word Circuit
9	Cell & Sector Counters	24	Clock Control Timing Chart
10	Disc Write Operation	25	Clock Control
11	Write Control	27	Disk Cabinet Logic I
12	Write Sequence	29	Disk Cabinet Logic II
13	Write Data Flow	31	Clock
14	Disc Read Operation	33	Data Organization





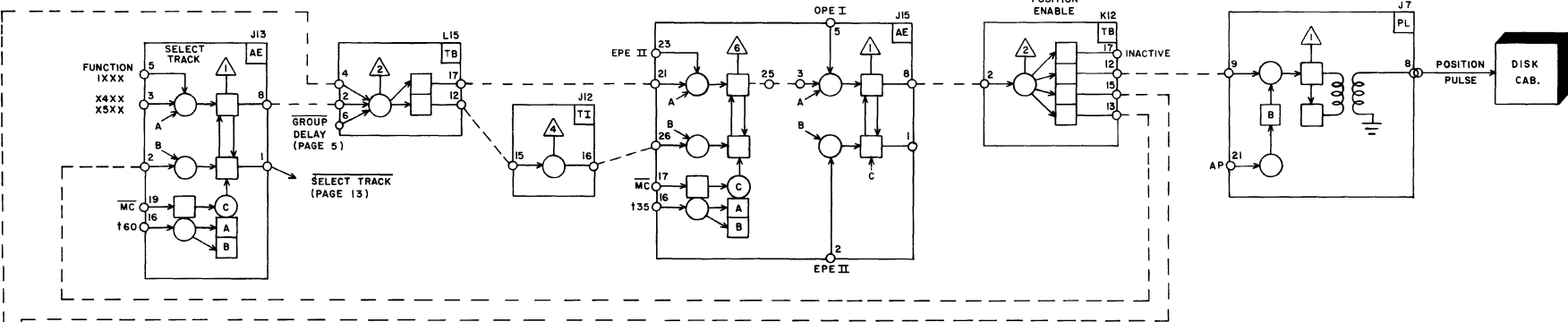


HEAD GROUP DELAY ALLOWS 1 DISK REVOLUTION FOR CIRCUIT STABILIZATION AFTER A GROUP SELECTION

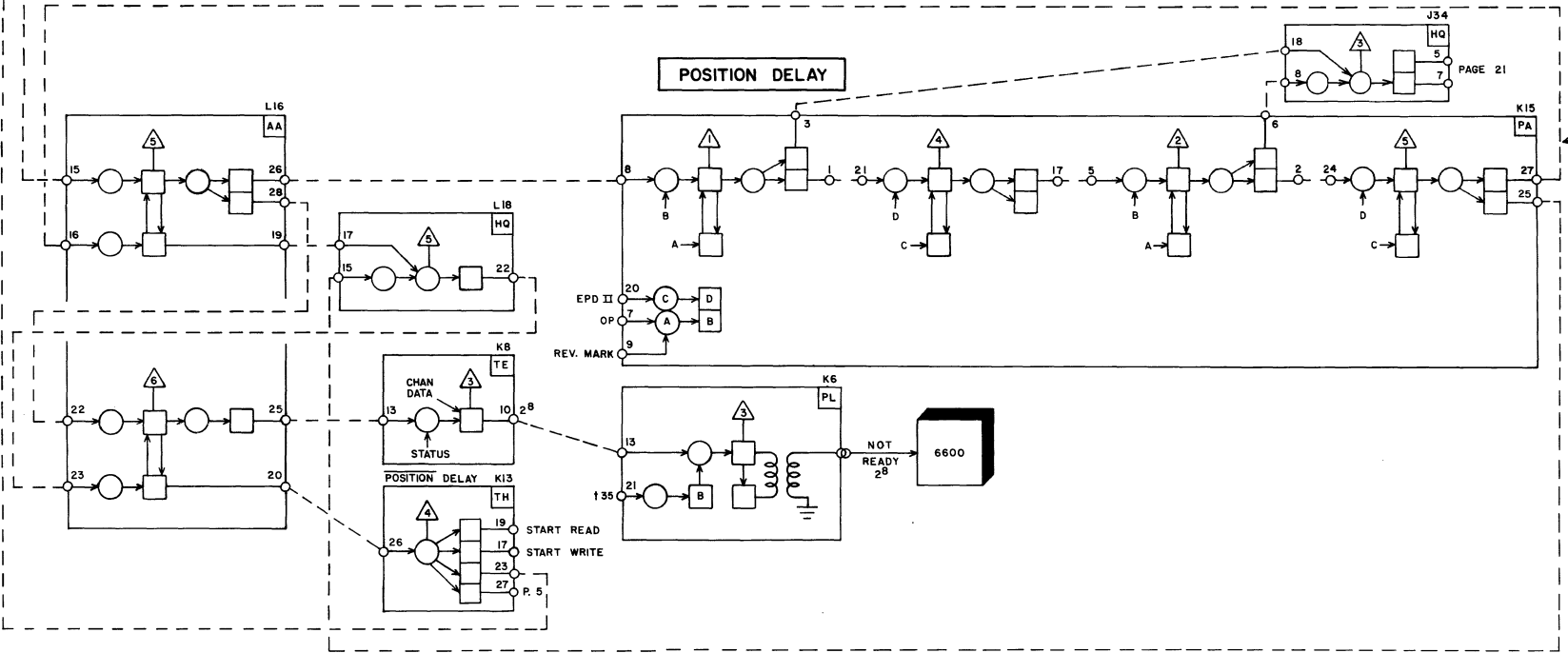


 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE DISK SYSTEM CONTROLLER HEAD GROUP CONTROL REVOLUTION MARK CONTROL	PRODUCT 6603	SIZE C	DRAWING NO. 60125000	REV C
			SHEET 51	5	

TRACK CONTROL

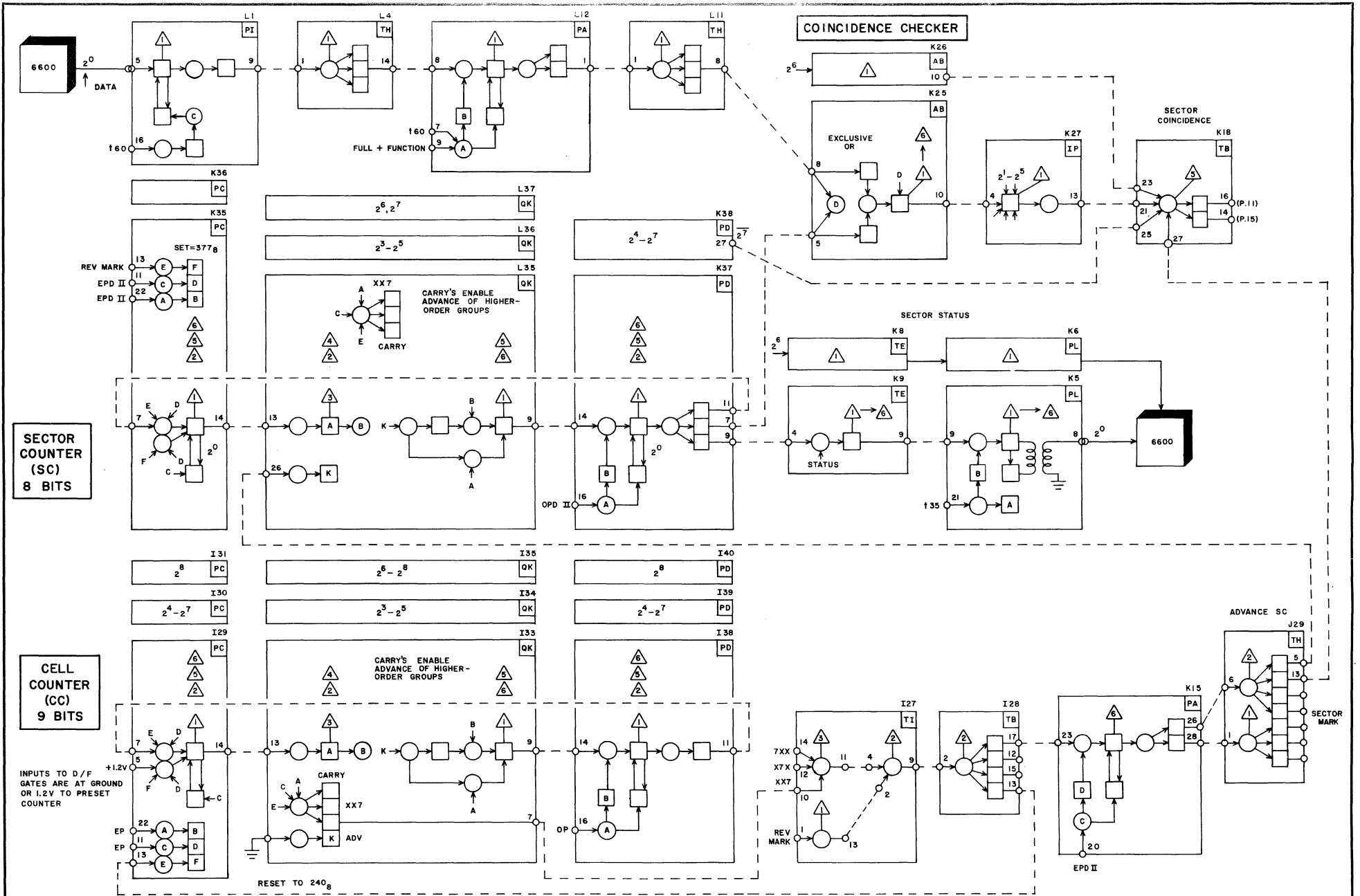


POSITION DELAY



POSITION DELAY ALLOWS DISK HEADS TO RE-POSITION AND STABILIZE FOR 4 DISK REVOLUTIONS BEFORE ALLOWING READ/WRITE TO START. SEE READ/WRITE CONTROL DWGS.

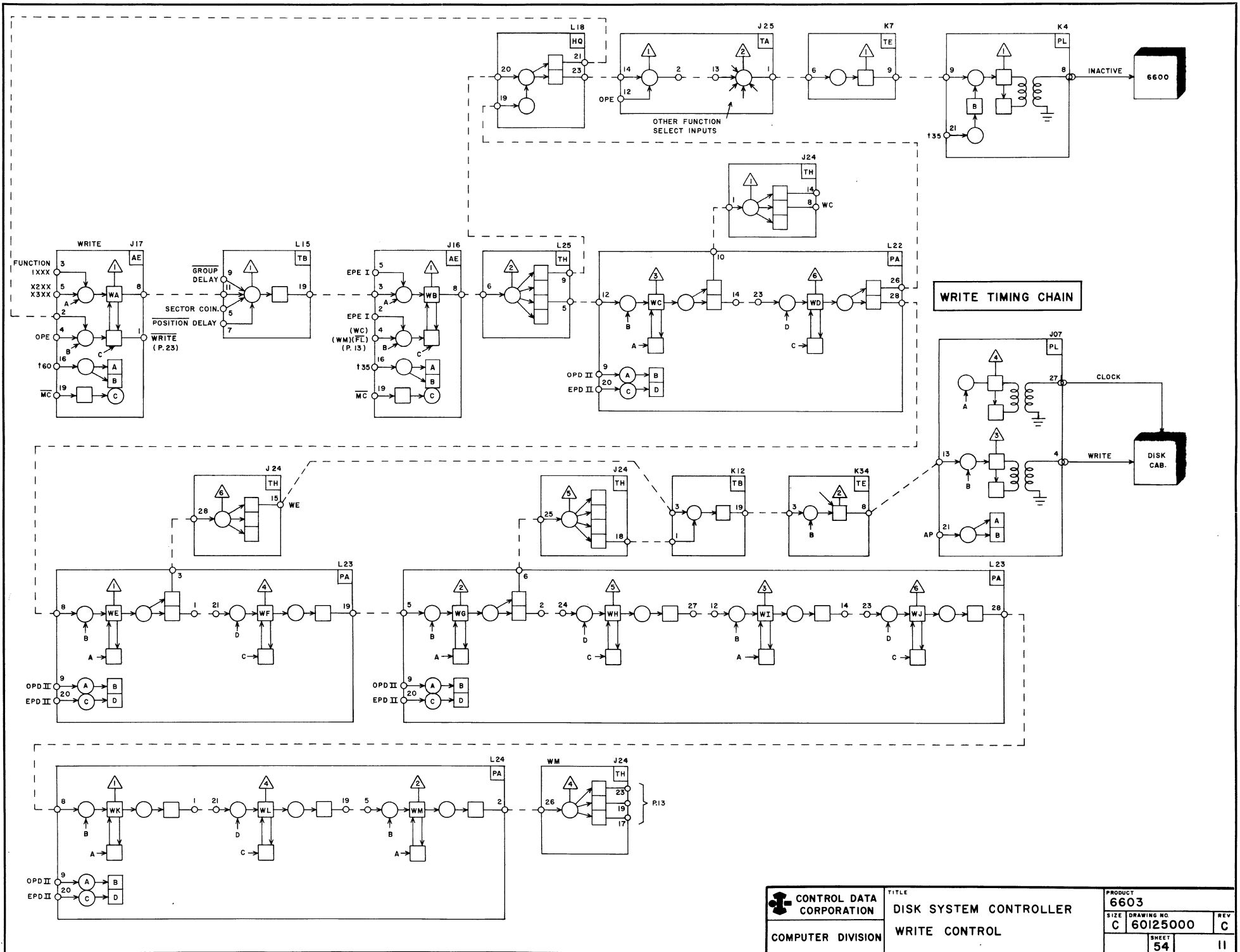
CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE DISK SYSTEM CONTROLLER	PRODUCT 6603
	TRACK CONTROL	SIZE DRAWING NO C 60125000
	REV C	SHEET 52



CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
DISK SYSTEM CONTROLLER
CELL & SECTOR COUNTERS

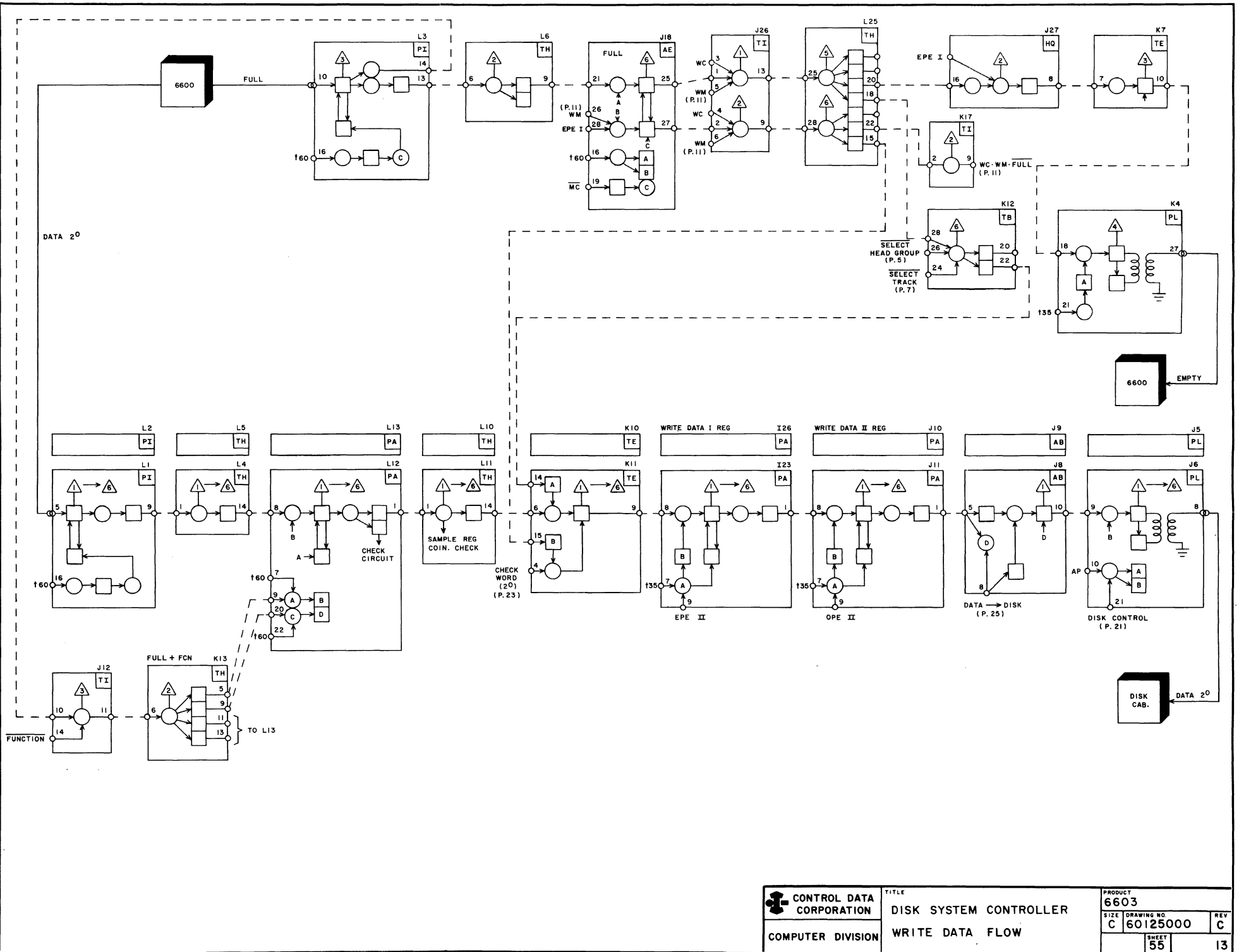
PRODUCT
6603
 SIZE DRAWING NO
C 60125000 REV
C
 SHEET
53 9

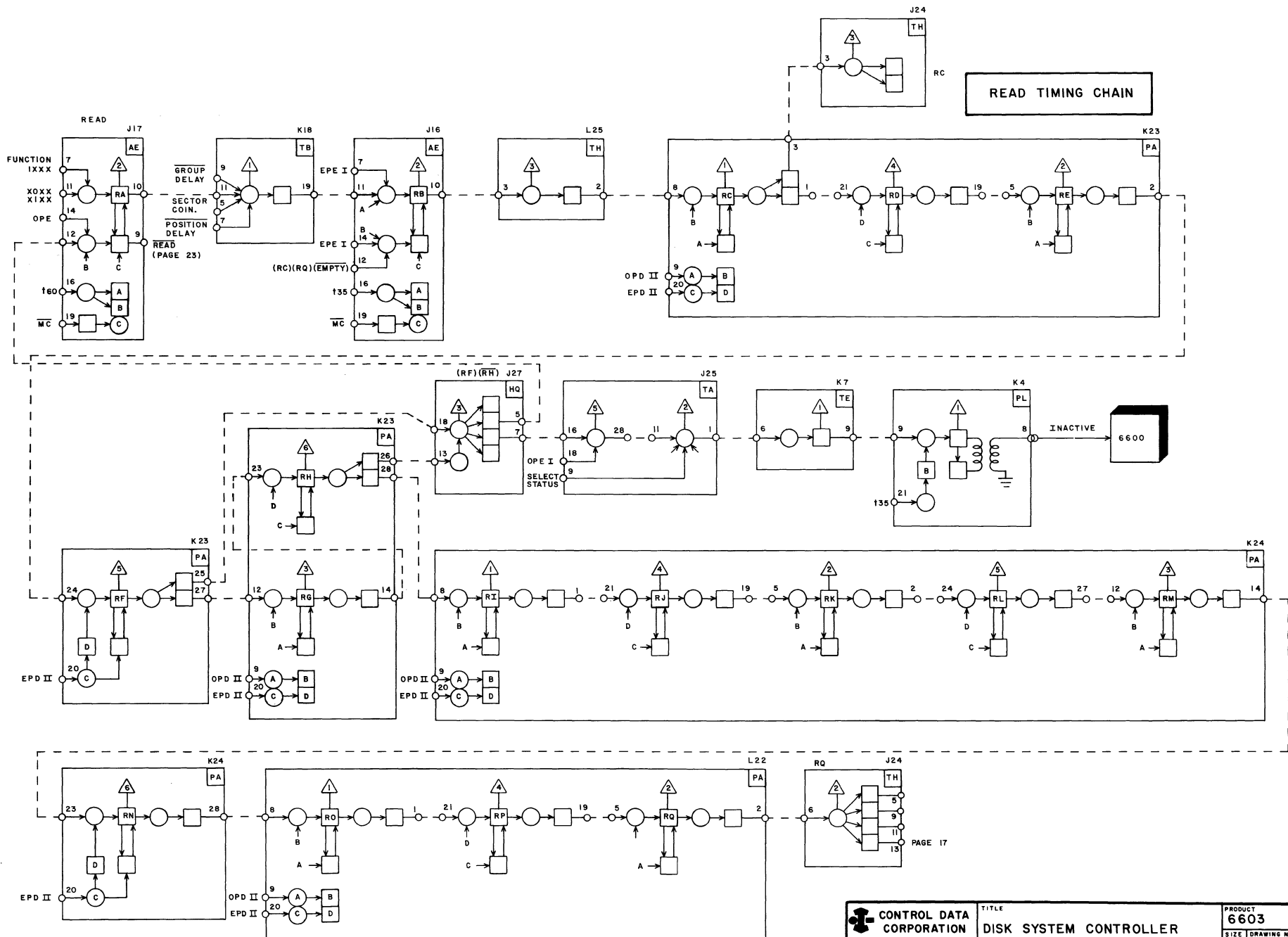



CONTROL DATA CORPORATION
 COMPUTER DIVISION

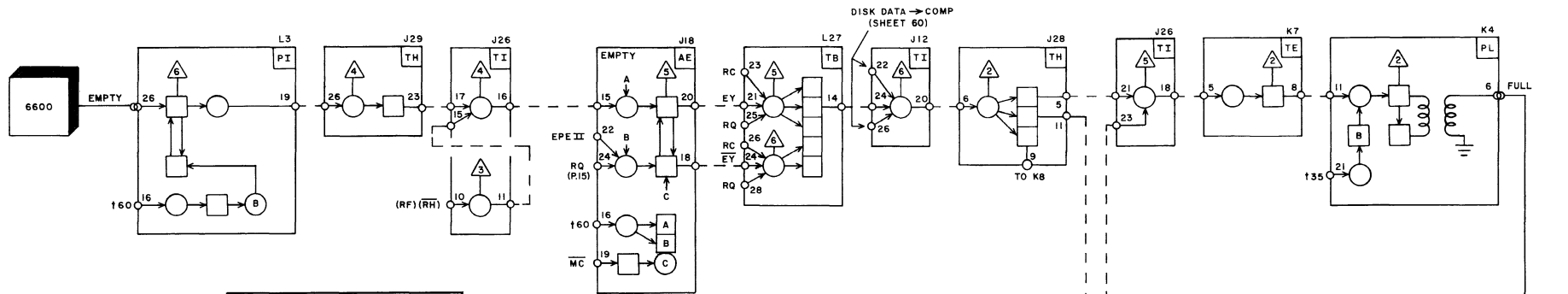
TITLE
DISK SYSTEM CONTROLLER
WRITE CONTROL

PRODUCT		6603	
SIZE	DRAWING NO.	REV	
C	60125000	C	
SHEET		11	
54			

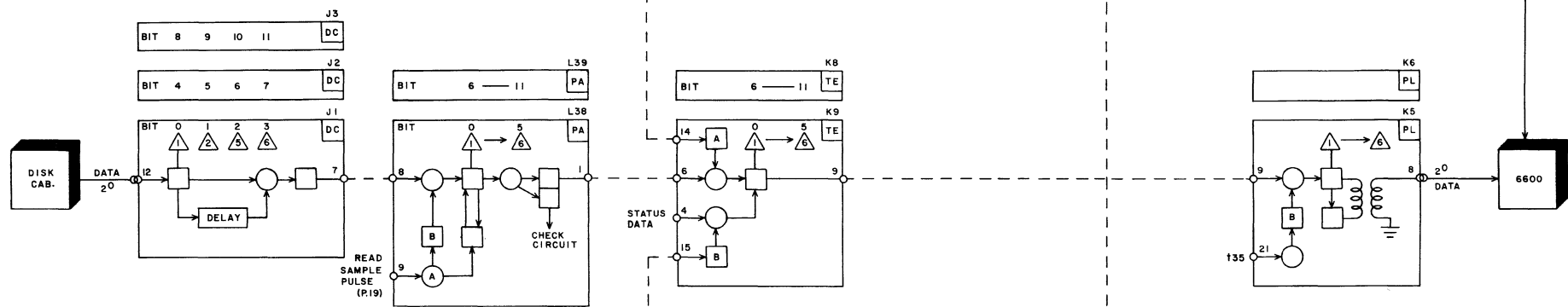




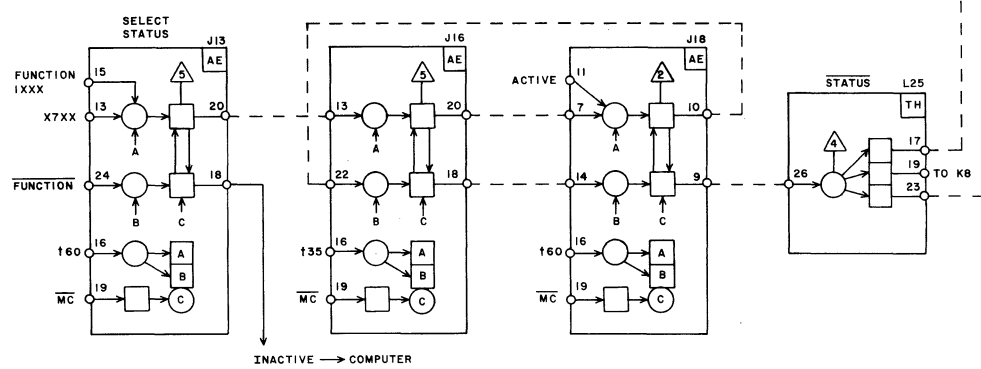
CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	DISK SYSTEM CONTROLLER READ CONTROL	PRODUCT 6603
	SIZE	C 60125000	REV C
	SHEET	56	15

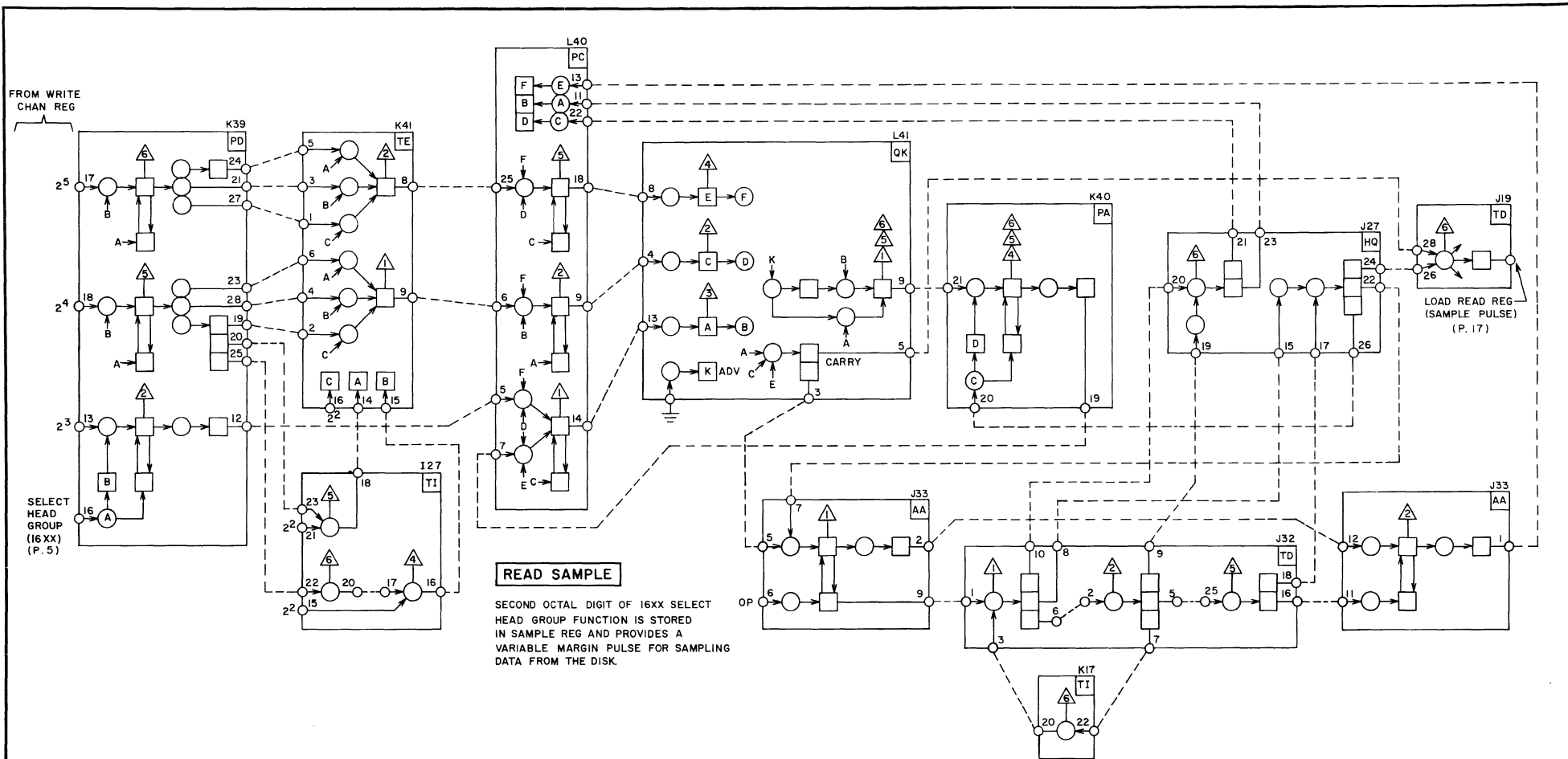


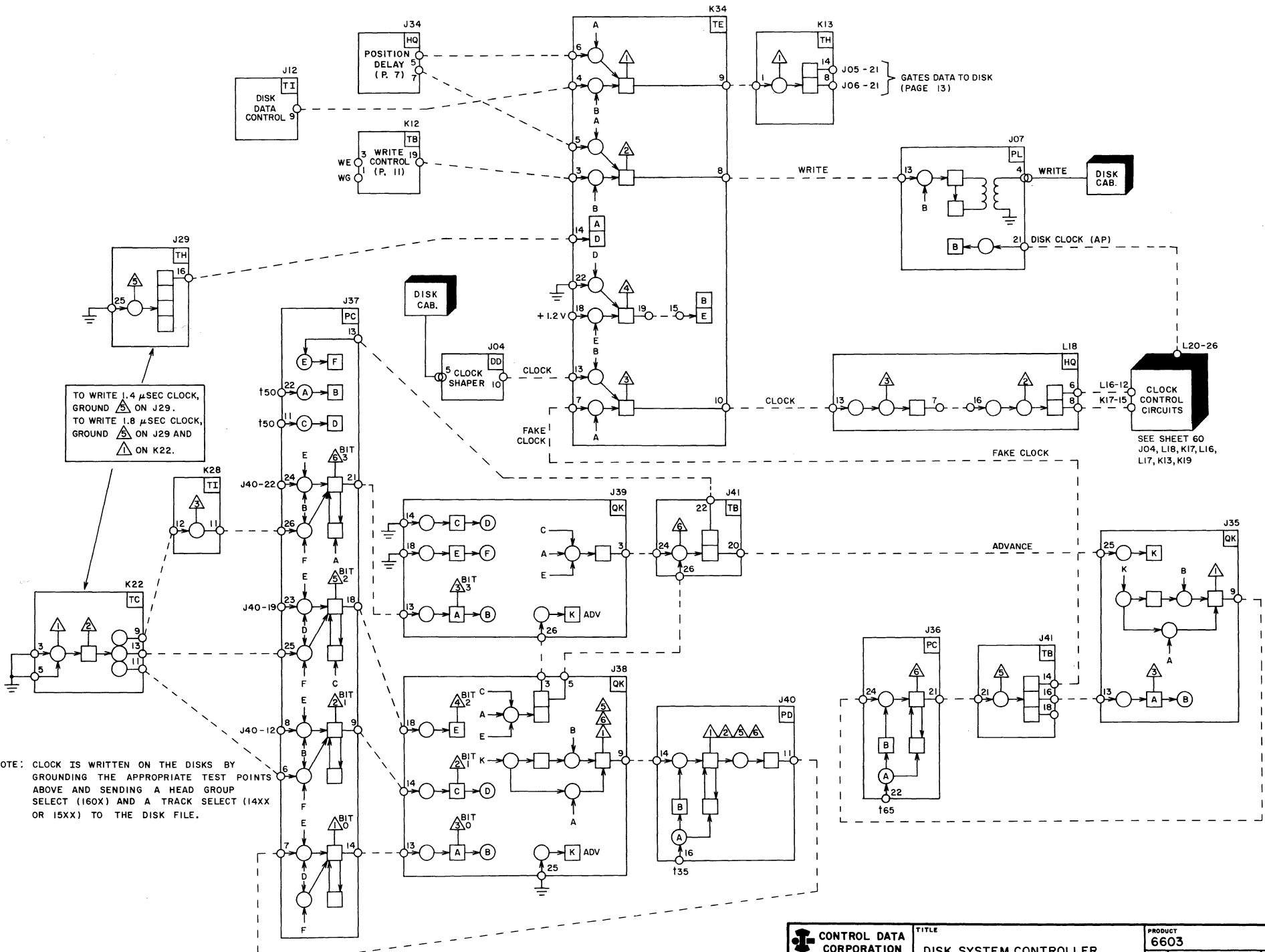
READ DATA FLOW



STATUS CONTROL

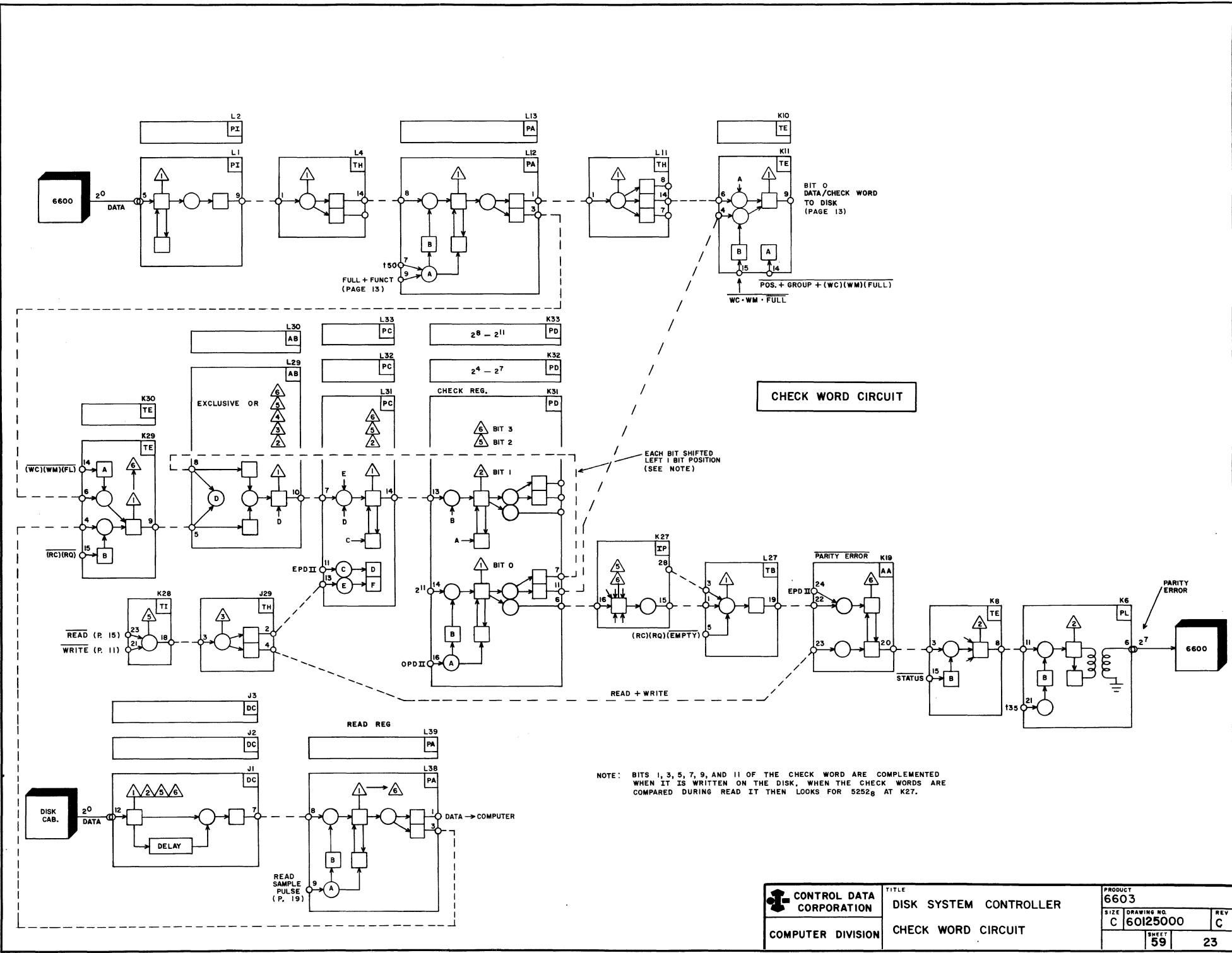






TO WRITE 1.4 μSEC CLOCK,
GROUND Δ ON J29.
TO WRITE 1.8 μSEC CLOCK,
GROUND Δ ON J29 AND
 Δ ON K22.

NOTE: CLOCK IS WRITTEN ON THE DISKS BY
GROUNDING THE APPROPRIATE TEST POINTS
ABOVE AND SENDING A HEAD GROUP
SELECT (160X) AND A TRACK SELECT (14XX
OR 15XX) TO THE DISK FILE.



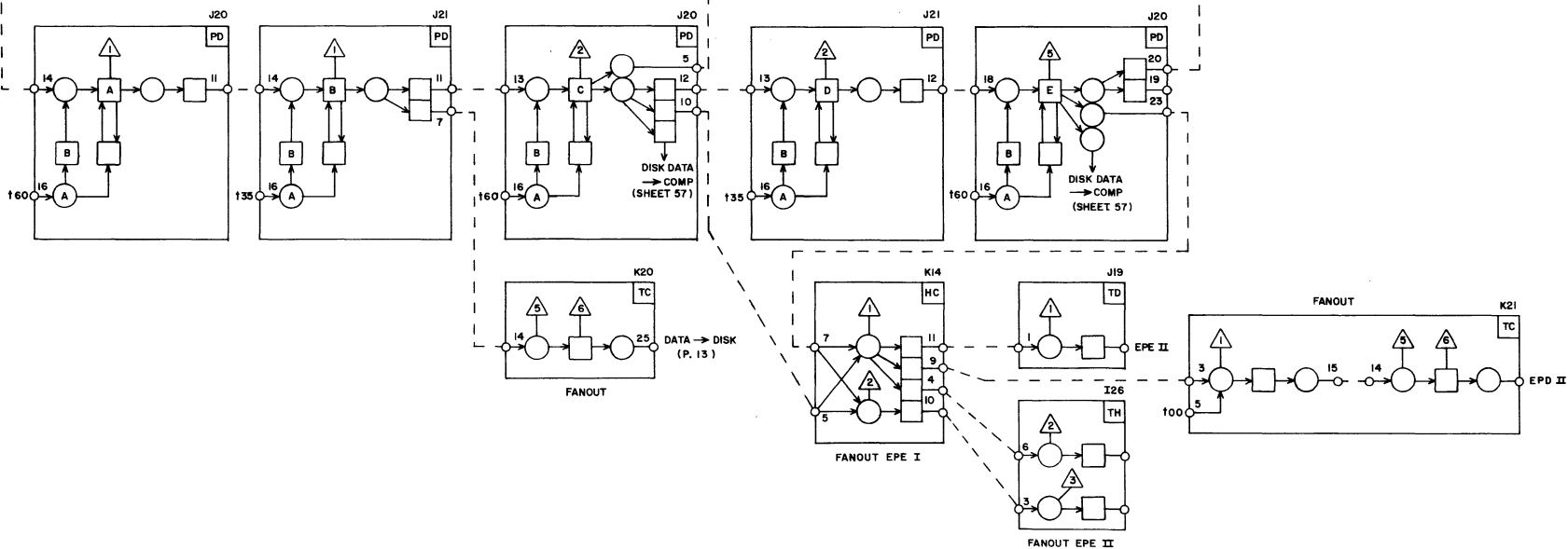
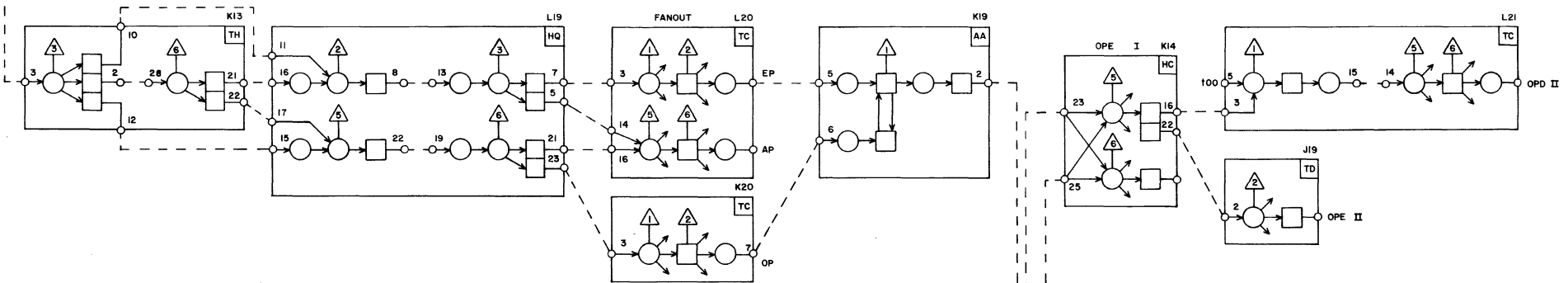
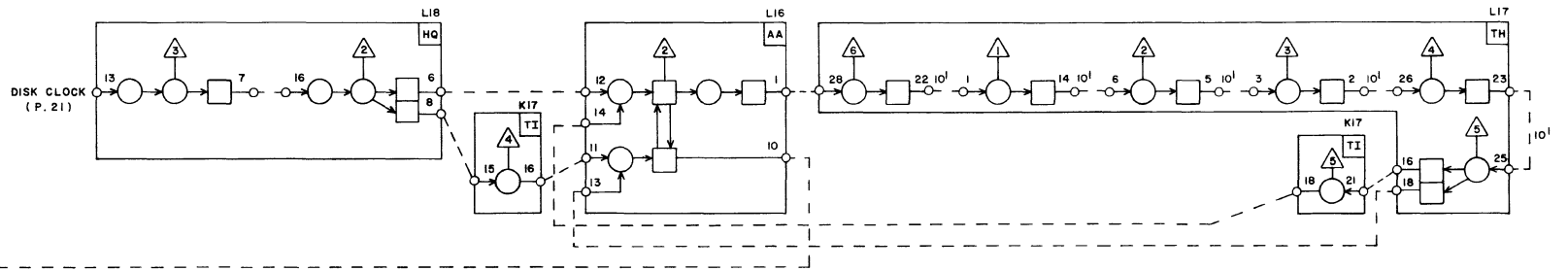
CHECK WORD CIRCUIT

NOTE: BITS 1, 3, 5, 7, 9, AND 11 OF THE CHECK WORD ARE COMPLEMENTED WHEN IT IS WRITTEN ON THE DISK. WHEN THE CHECK WORDS ARE COMPARED DURING READ IT THEN LOOKS FOR 5252₈ AT K27.

CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
DISK SYSTEM CONTROLLER
CHECK WORD CIRCUIT

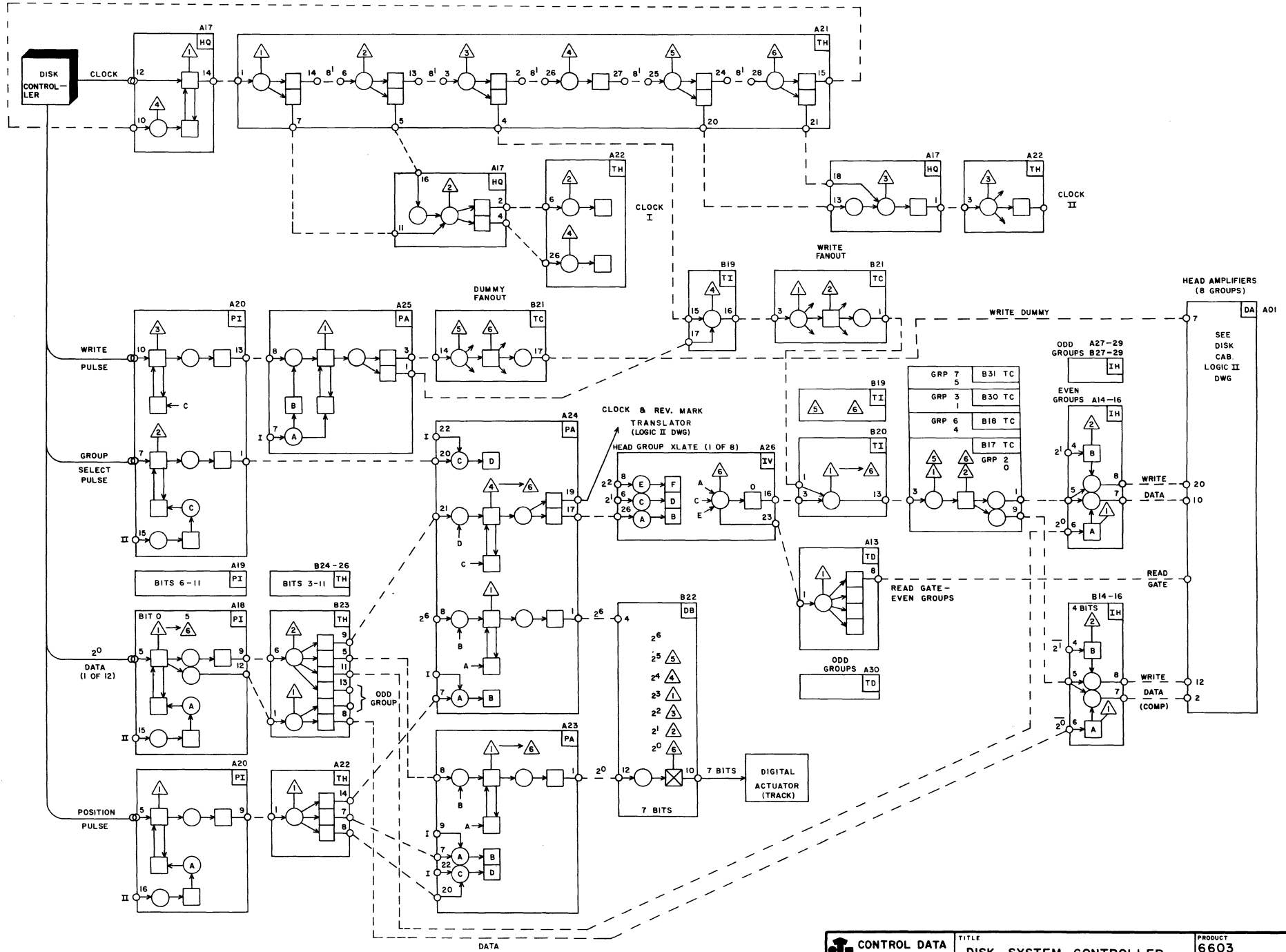
PRODUCT 6603		REV C
SIZE C	DRAWING NO. 60125000	SHEET 59
		23

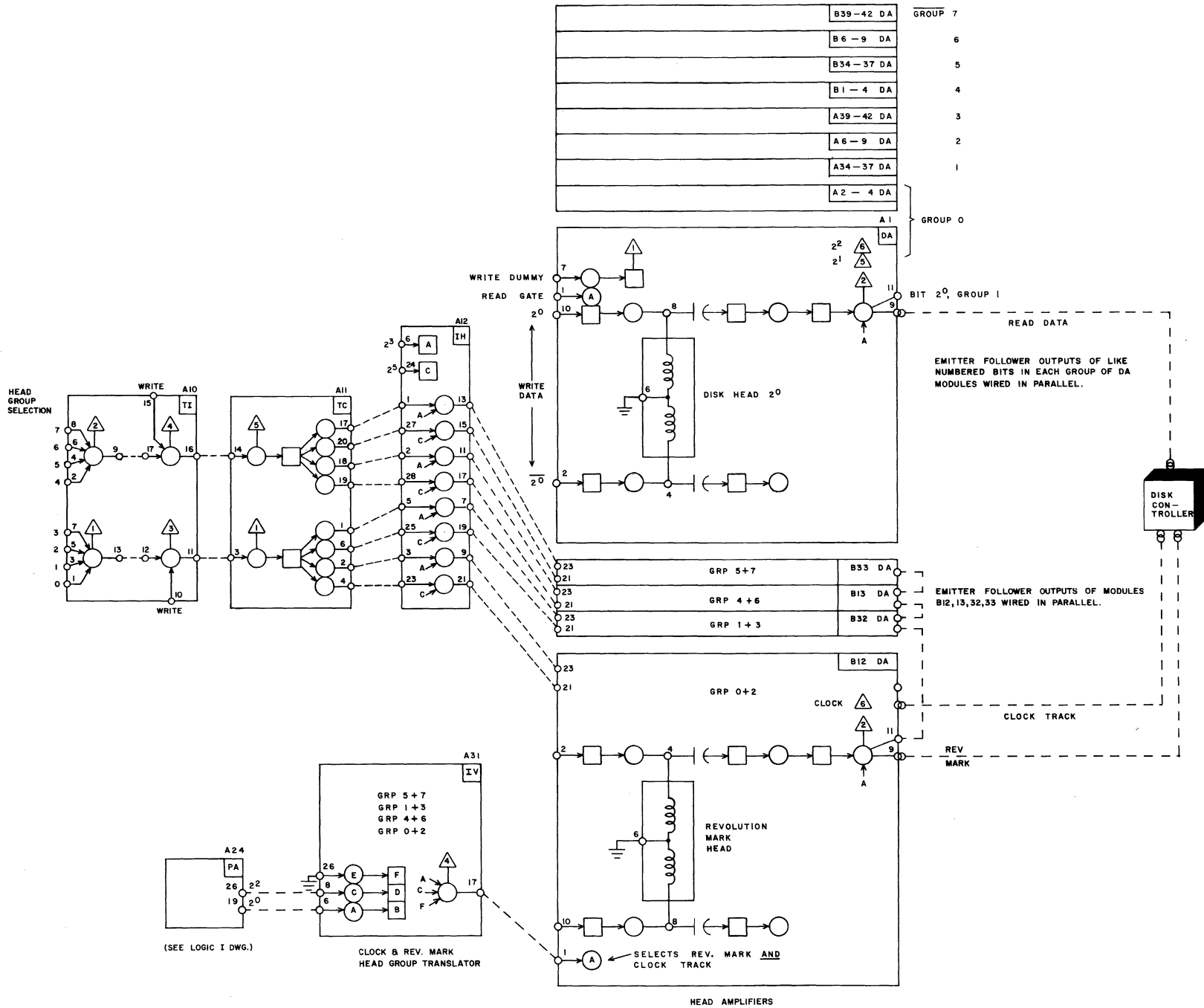


CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
**DISK SYSTEM CONTROLLER
CLOCK CONTROL**

PRODUCT 6603	REV C
SIZE C	DRAWING NO. 60125000
SHEET 60	REV 25





(SEE LOGIC I DWG.)

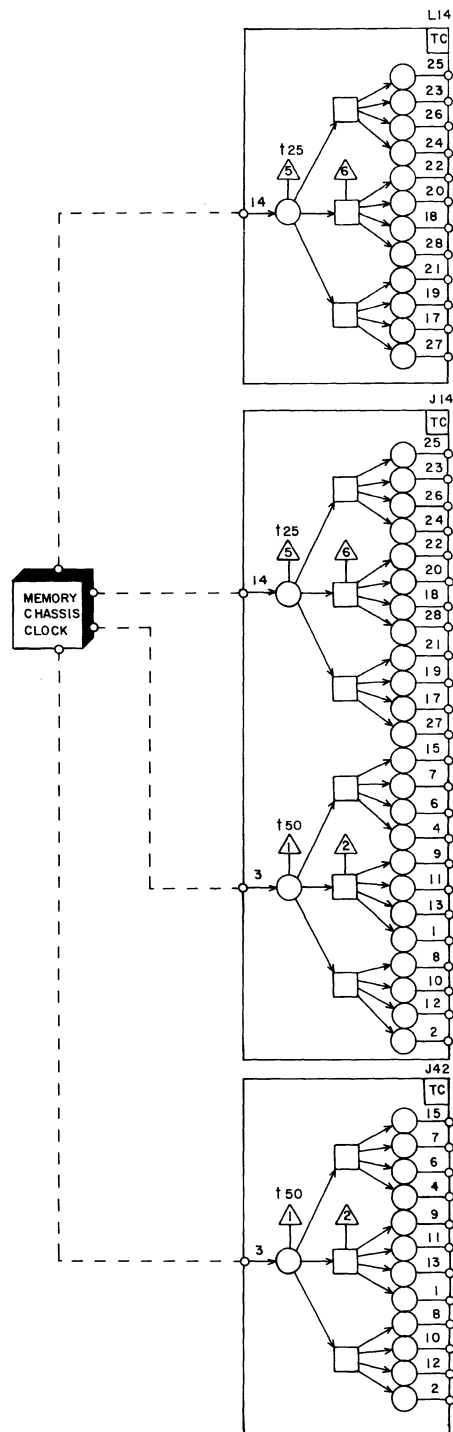
CLOCK & REV. MARK
HEAD GROUP TRANSLATOR


HEAD AMPLIFIERS

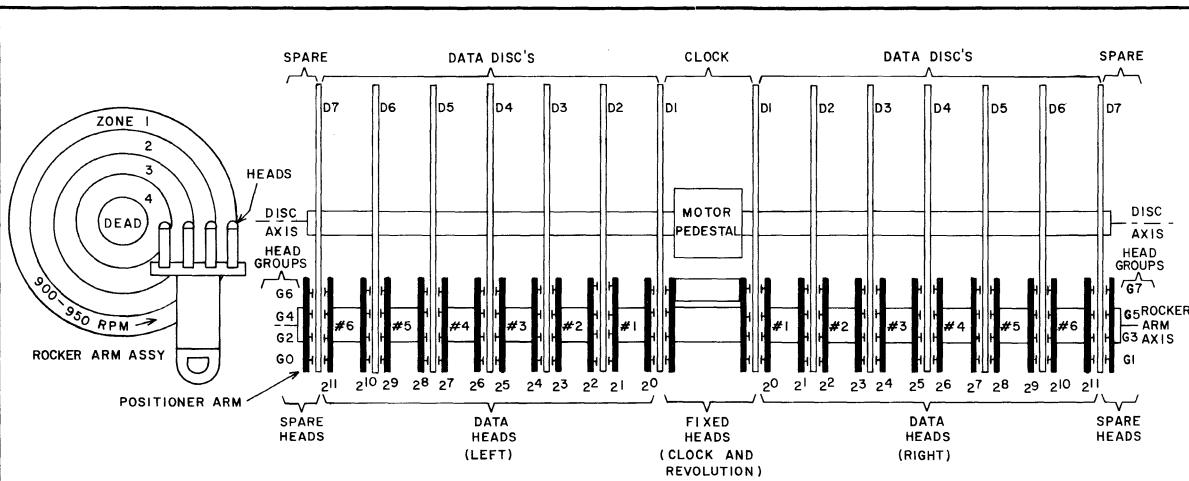
CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
DISK SYSTEM CONTROLLER
DISK CABINET LOGIC II

PRODUCT
6603
SIZE DRAWING NO. REV
C 60125000 C
SHEET 62 OF 29



 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE DISK SYSTEM CONTROLLER CLOCK	PRODUCT 6603	
		SIZE C	DRAWING NO. 60125000
		REV C	SHEET 63
		31	

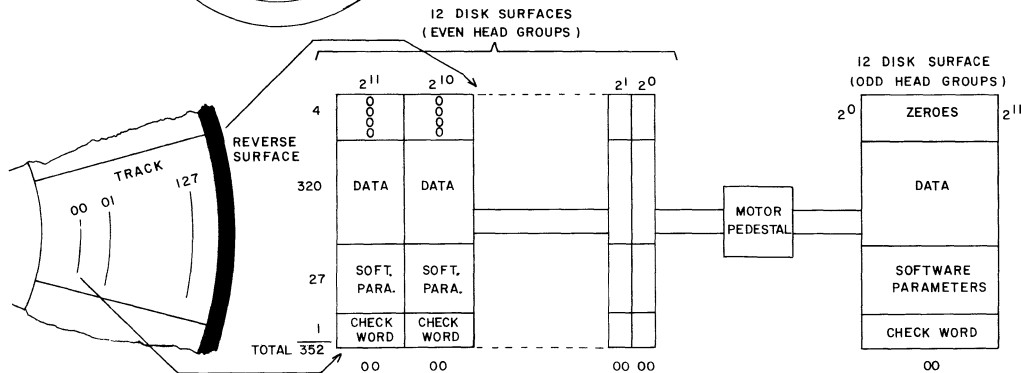
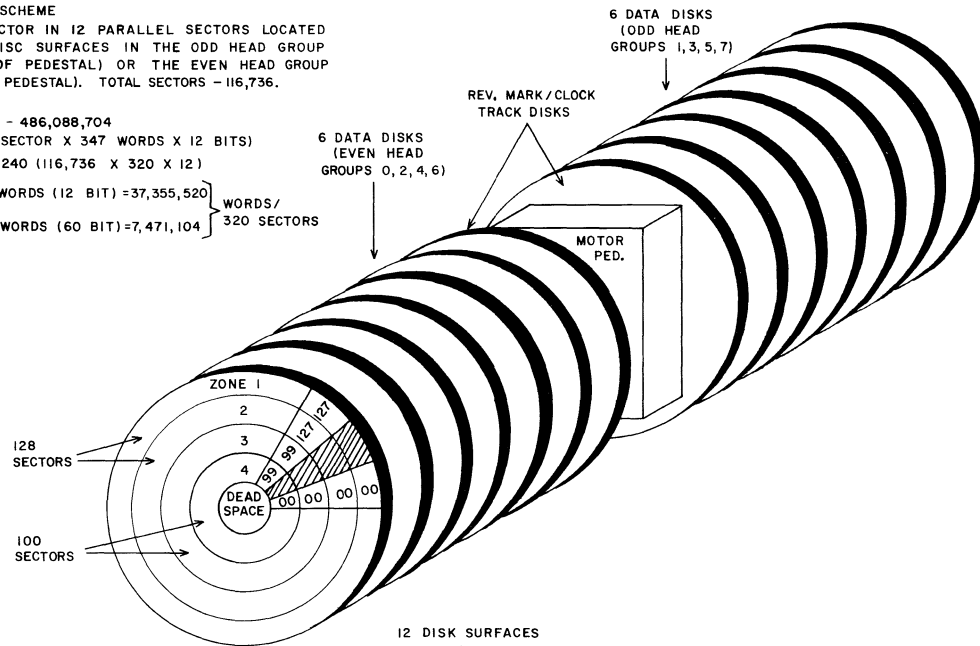


RECORDING SCHEME

1 BIT/SECTOR IN 12 PARALLEL SECTORS LOCATED ON 12 DISC SURFACES IN THE ODD HEAD GROUP (RIGHT OF PEDESTAL) OR THE EVEN HEAD GROUP (LEFT OF PEDESTAL). TOTAL SECTORS - 116,736.

TOTAL BITS - 486,088,704
 (116,736 SECTOR X 347 WORDS X 12 BITS)
 448,766,240 (116,736 X 320 X 12)

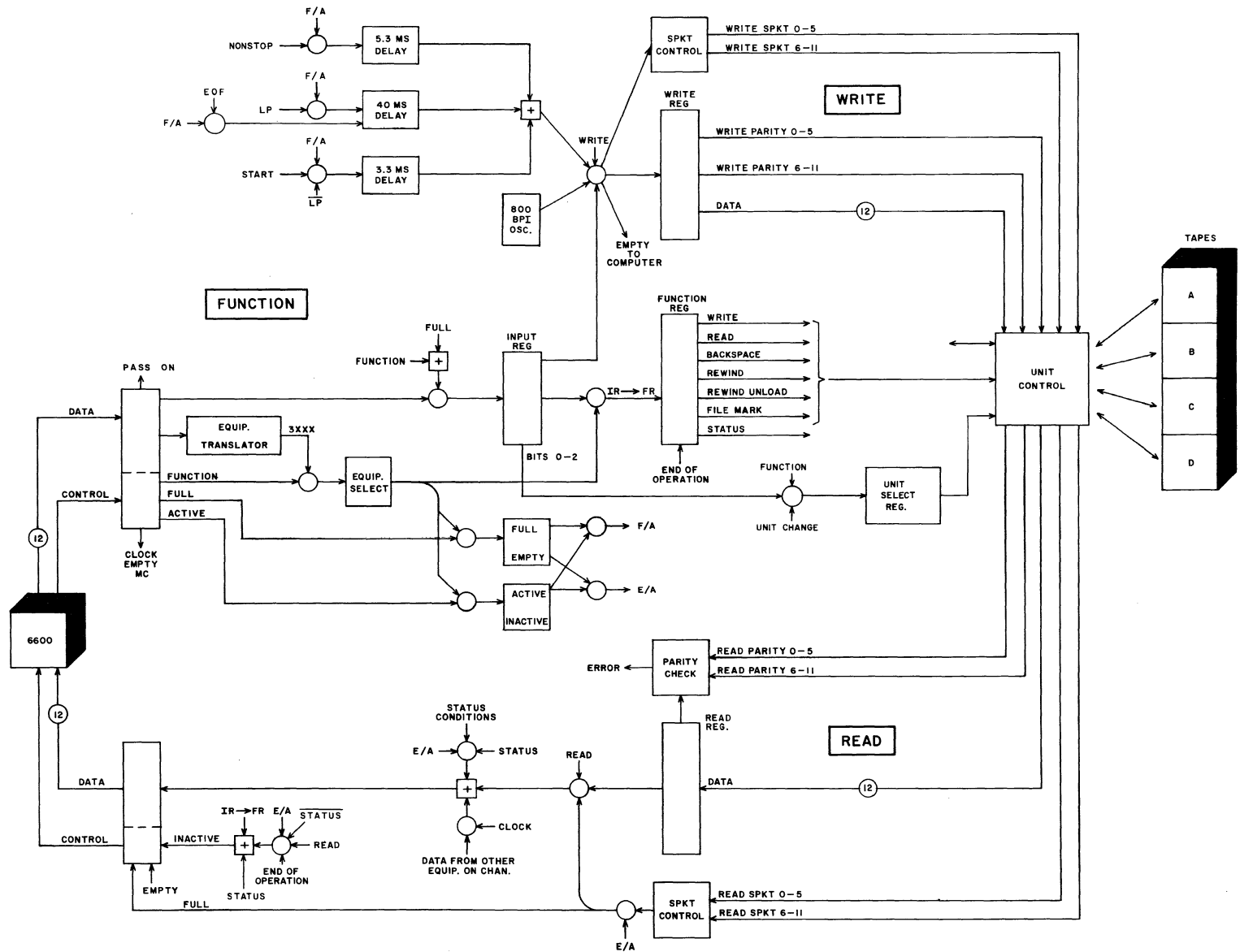
TOTAL PP WORDS (12 BIT) = 37,355,520 } WORDS/
 TOTAL CP WORDS (60 BIT) = 7,471,104 } 320 SECTORS

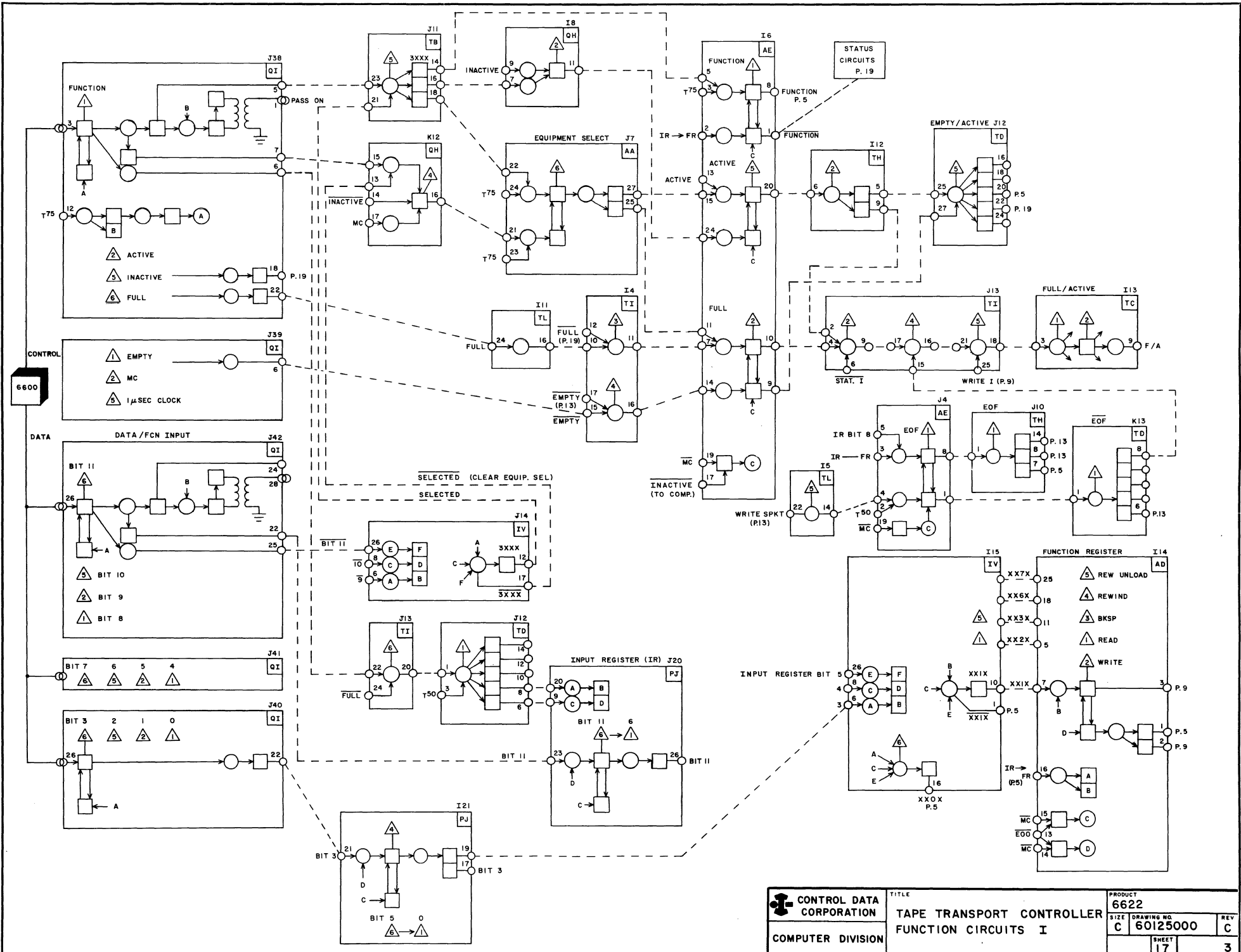


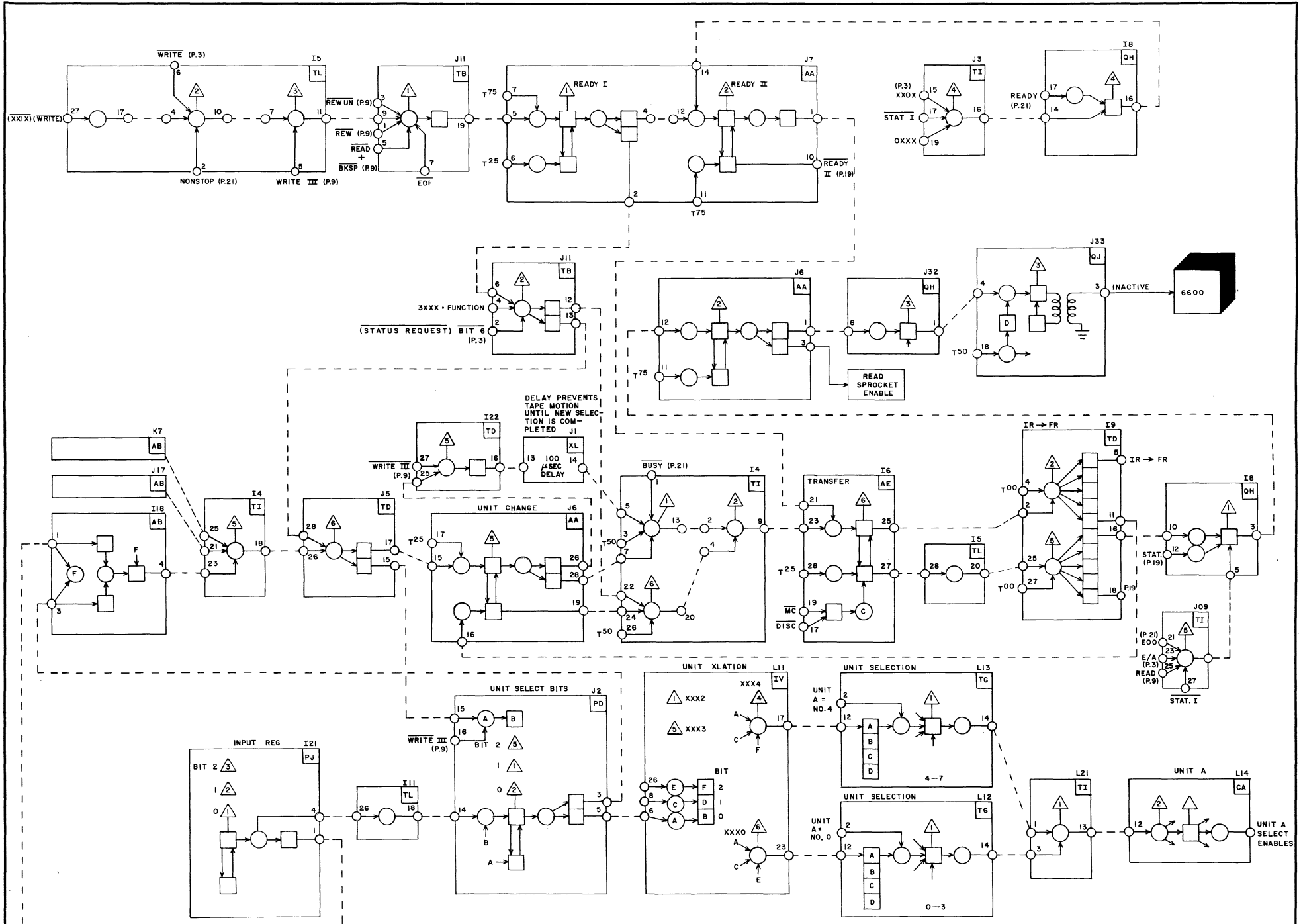
6622 MAGNETIC TAPE TRANSPORT CONTROLLER

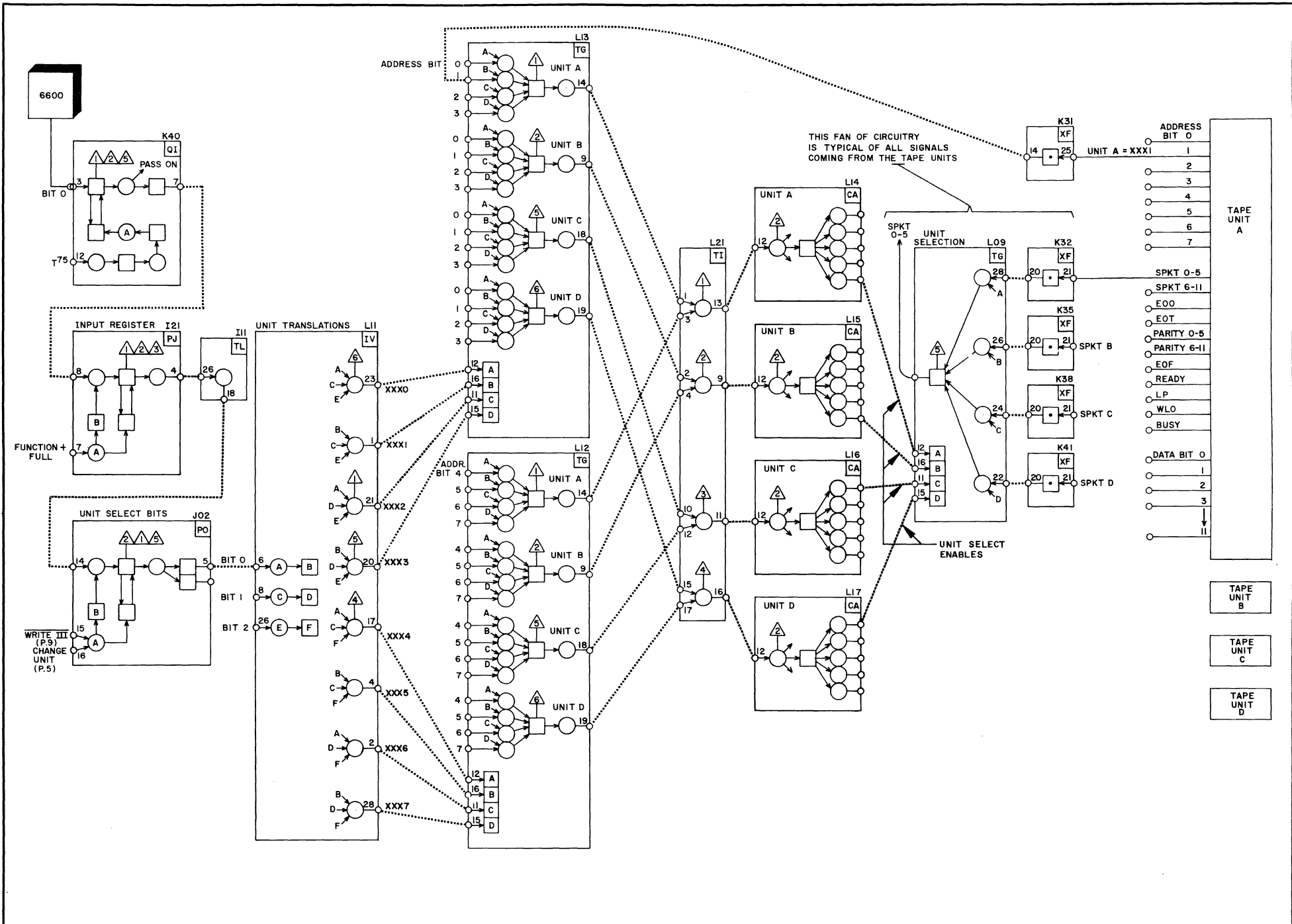
CONTENTS

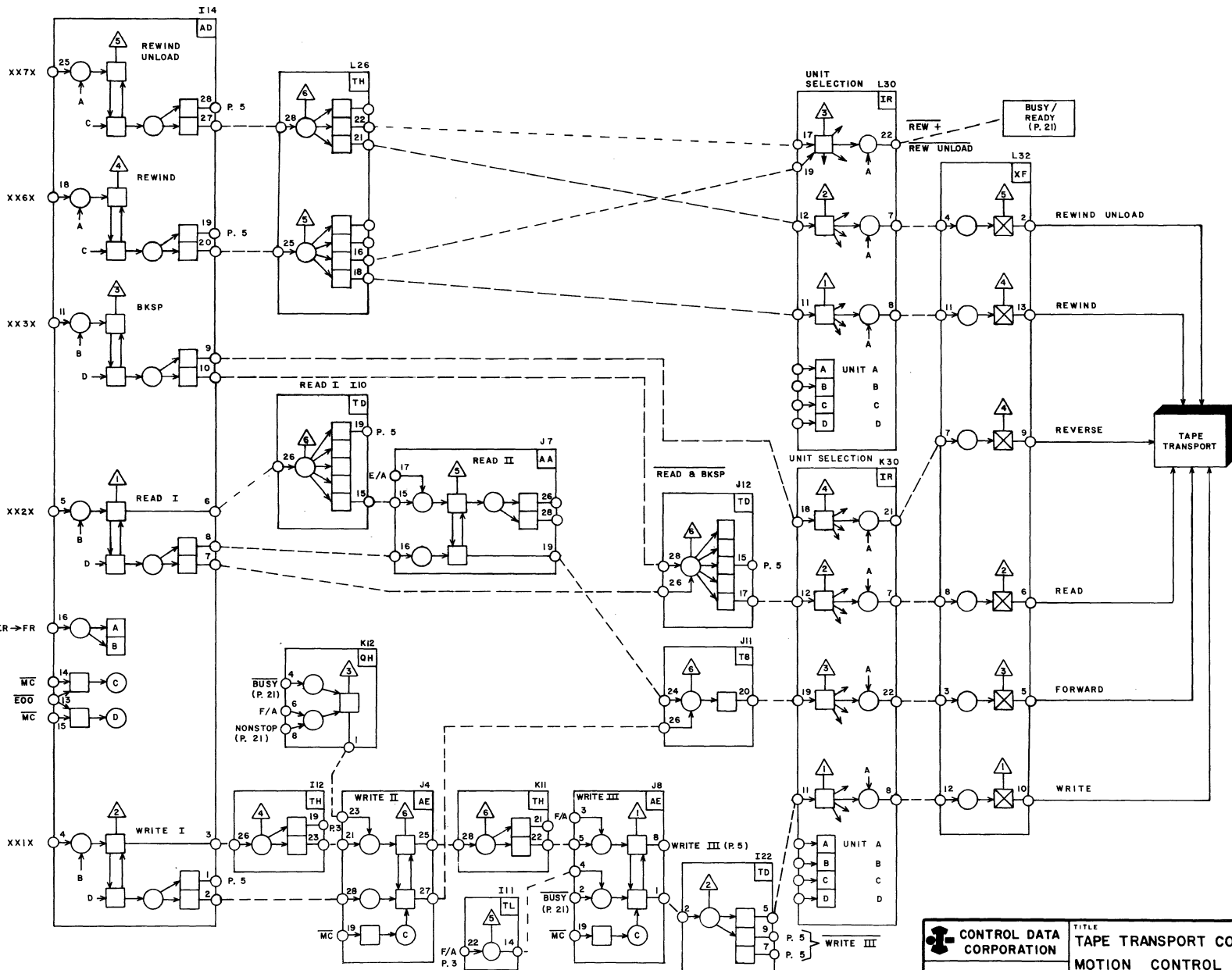
Page	Title
1	Block Diagram
2	End of File
3	Function Circuits I
5	Function Circuits II
7	Unit Control
8	Rewind Operation
9	Motion Control
11	Write Osc.
12	Tape Read Operation
13	Write Data Flow
15	Read Sprocket Control
16	Tape Read Operation
17	Read Data Flow
19	Status Circuits
21	Non-Stop, End of Operation, Busy/Ready
23	Clock







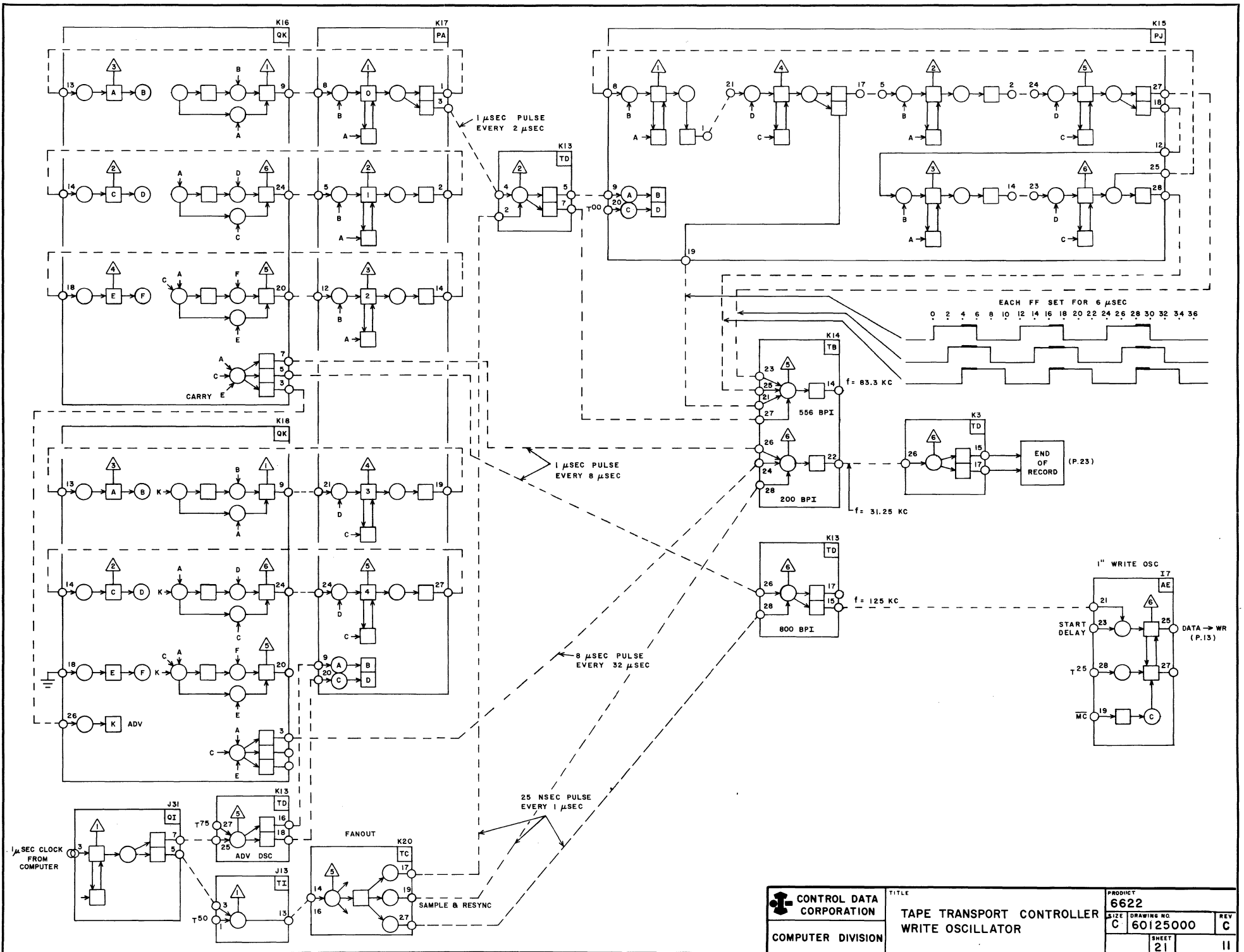




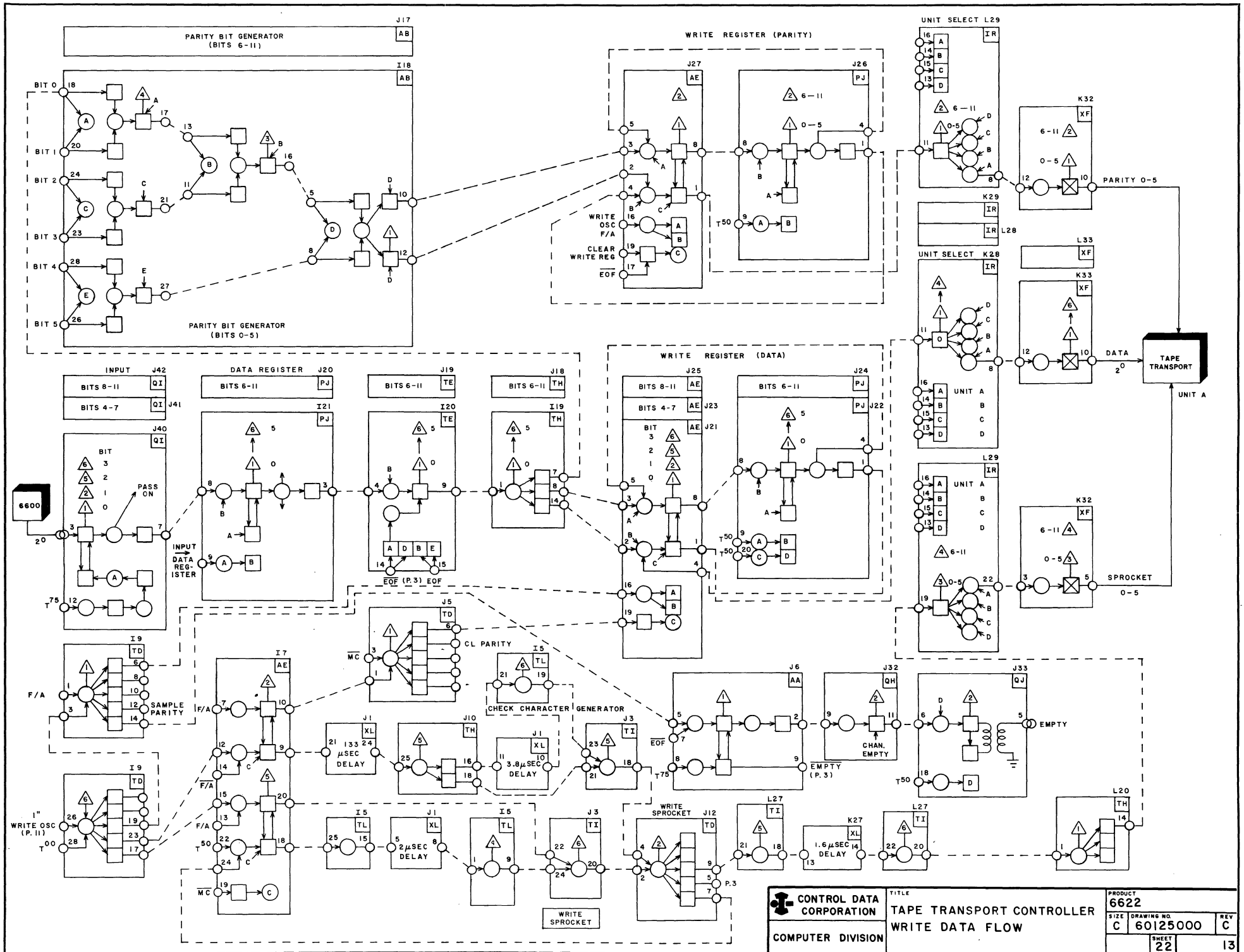

CONTROL DATA CORPORATION
 COMPUTER DIVISION

TITLE
TAPE TRANSPORT CONTROLLER
 MOTION CONTROL

PRODUCT 6622		REV C
SIZE C	DRAWING NO. 60125000	
SHEET 20		9



CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT	REV
	TAPE TRANSPORT CONTROLLER WRITE OSCILLATOR	6622	C
	SIZE	DRAWING NO.	
	C	60125000	C
	SHEET		
	21		11

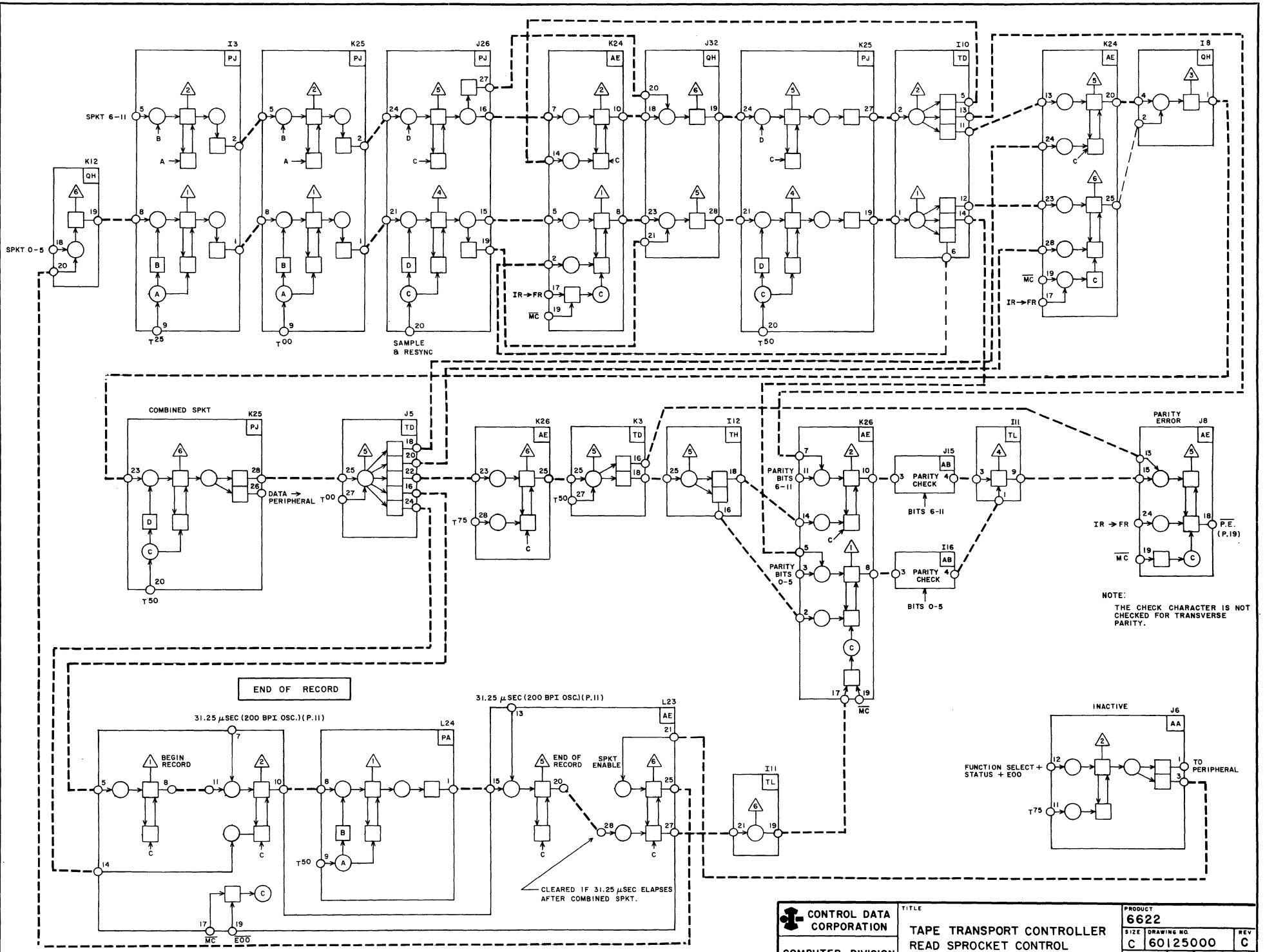


CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
TAPE TRANSPORT CONTROLLER
WRITE DATA FLOW

PRODUCT
6622

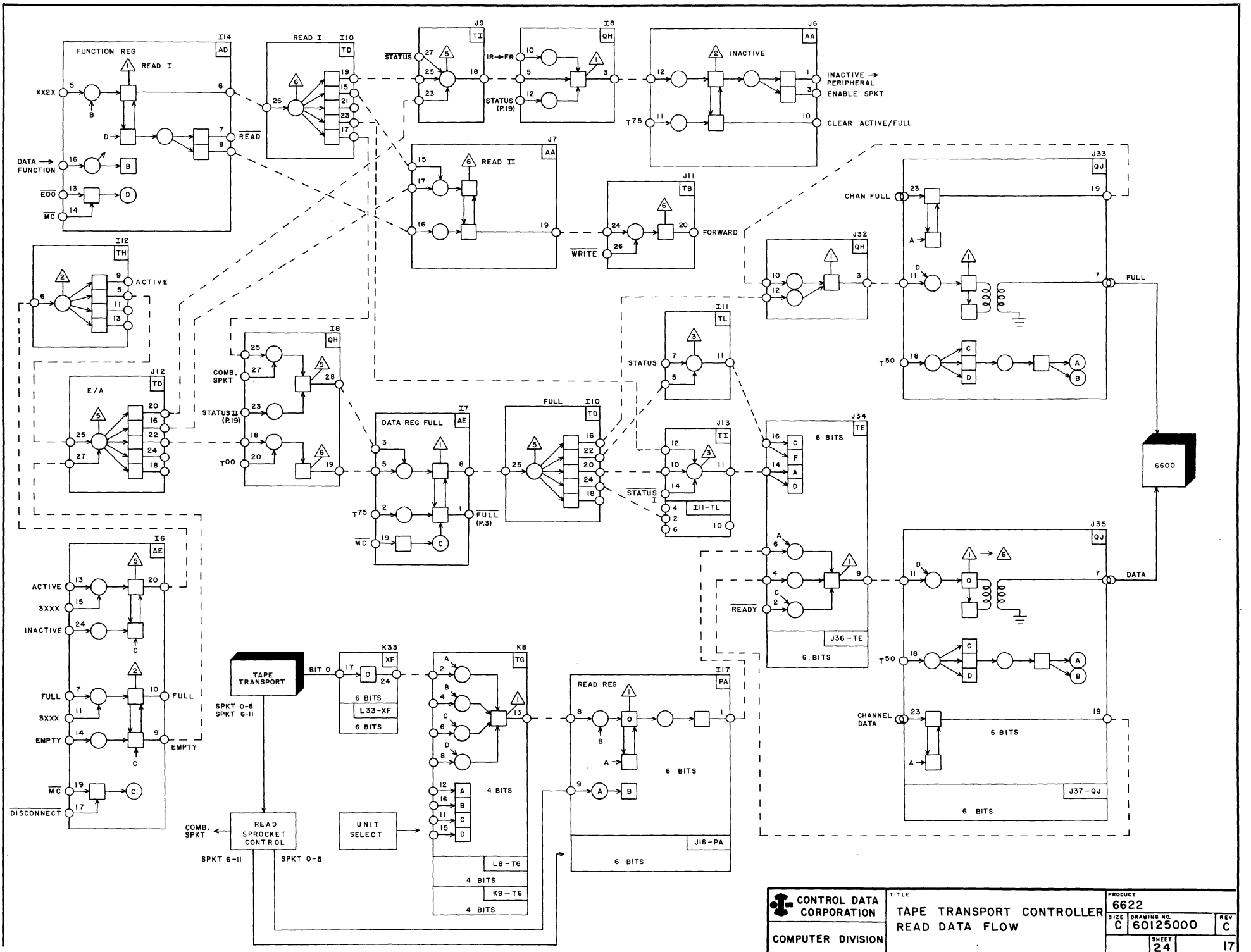
SIZE	DRAWING NO.	REV
C	60125000	C
SHEET		13
22		

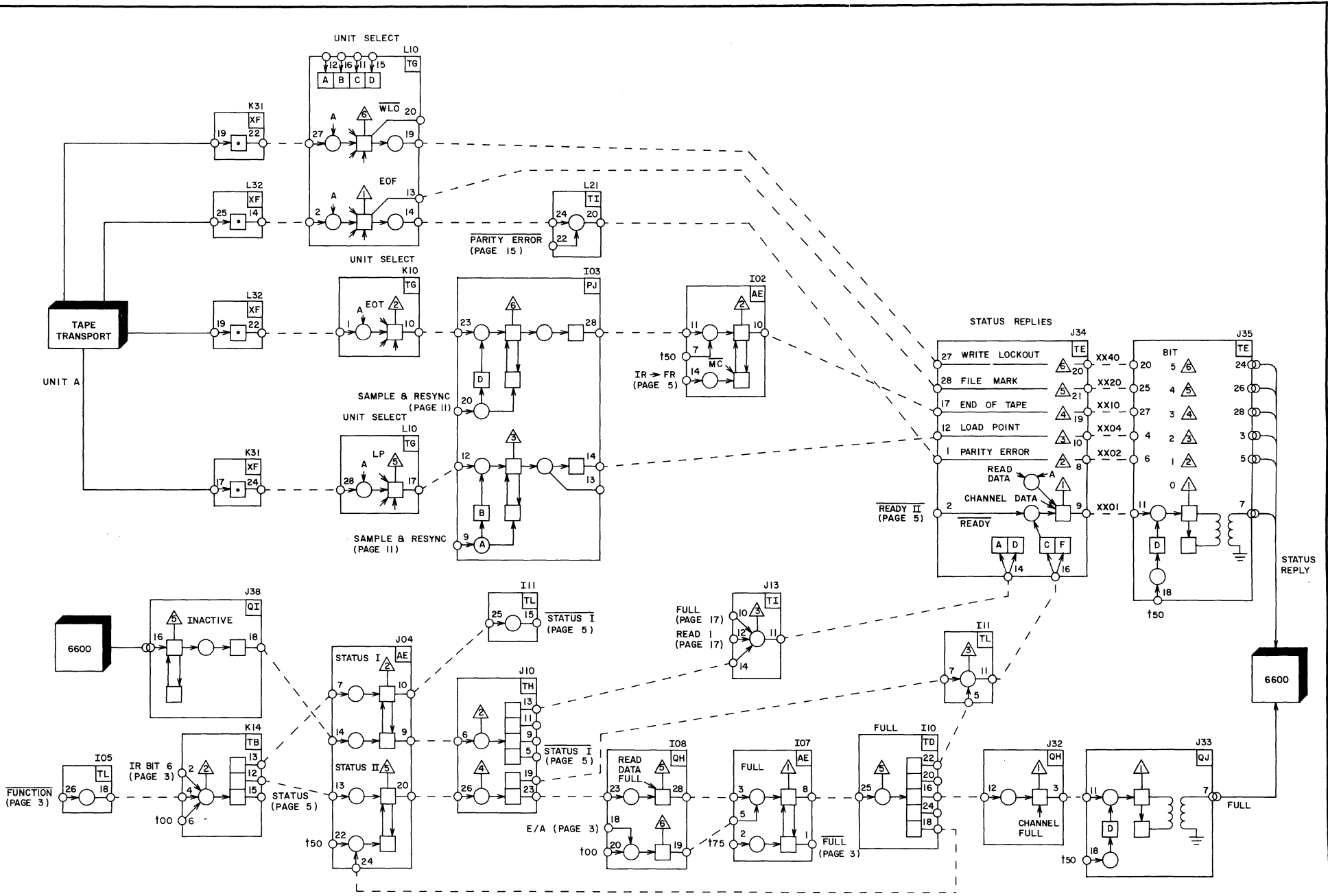


NOTE:
THE CHECK CHARACTER IS NOT CHECKED FOR TRANSVERSE PARITY.

CLEARED IF 31.25 μSEC ELAPSES AFTER COMBINED SPKT.

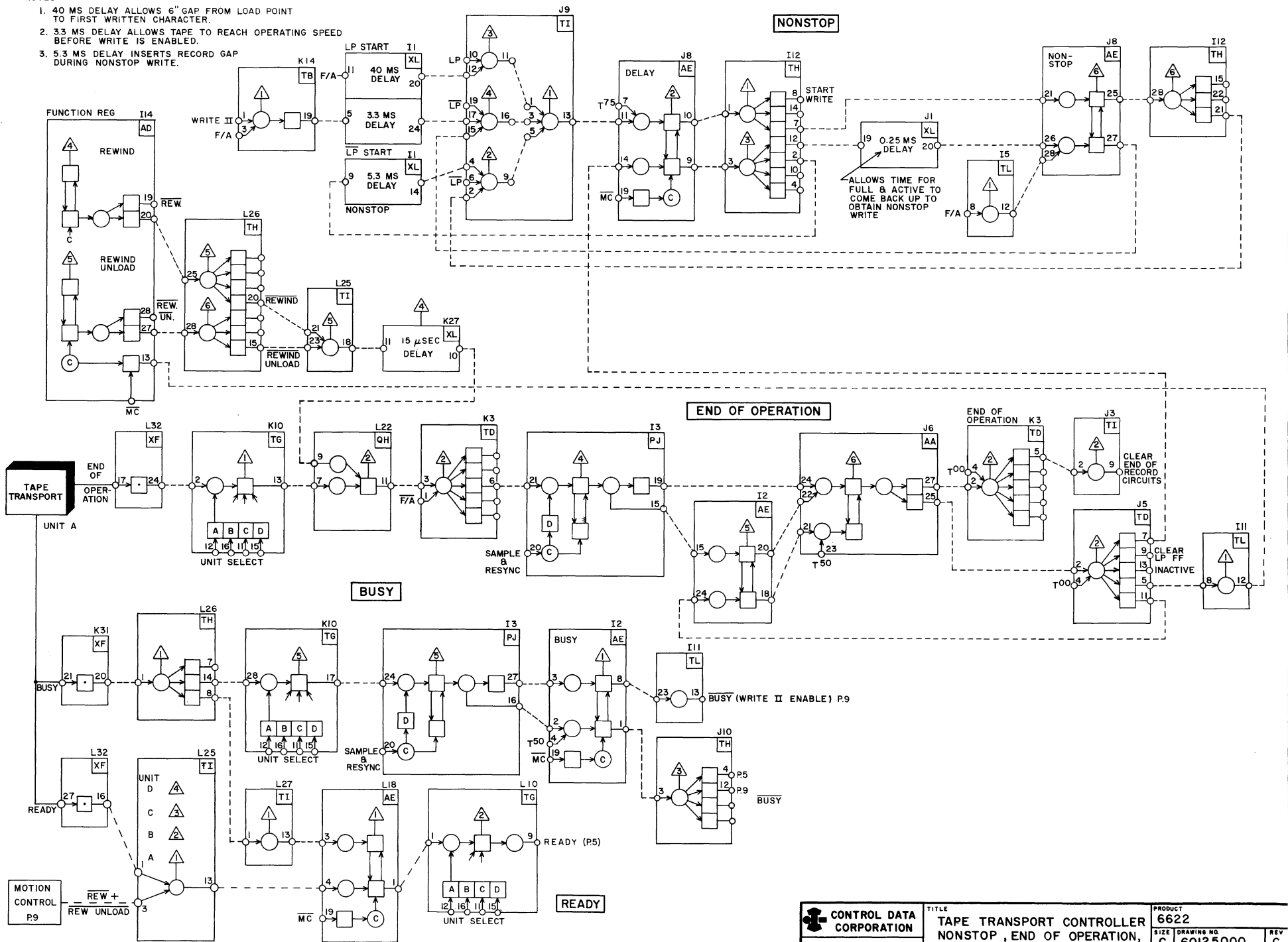
 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT
	TAPE TRANSPORT CONTROLLER READ SPROCKET CONTROL END OF RECORD	6622
	SIZE DRAWING NO.	REV
	C 60125000	C
	SHEET	15
	23	



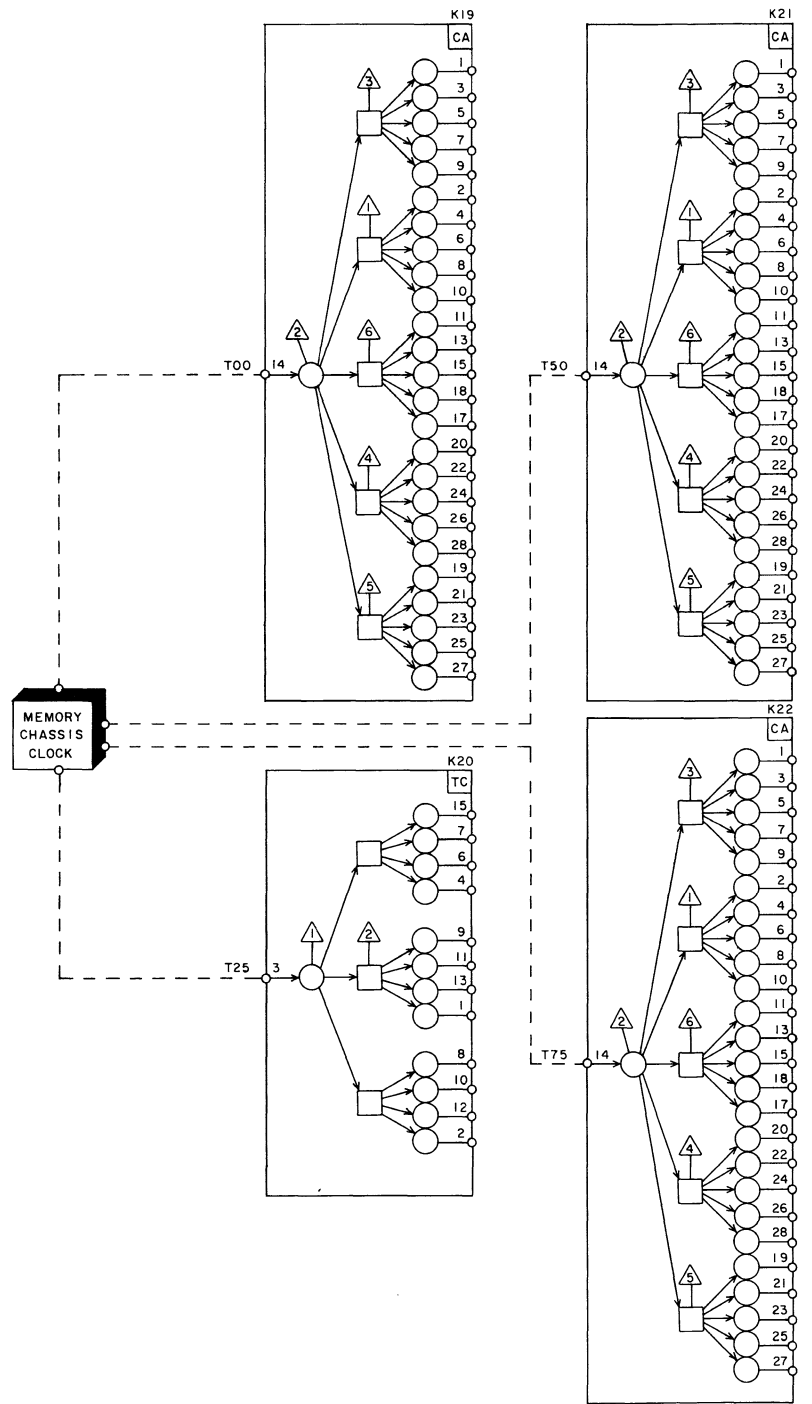


NOTES:

1. 40 MS DELAY ALLOWS 6" GAP FROM LOAD POINT TO FIRST WRITTEN CHARACTER.
2. 3.3 MS DELAY ALLOWS TAPE TO REACH OPERATING SPEED BEFORE WRITE IS ENABLED.
3. 5.3 MS DELAY INSERTS RECORD GAP DURING NONSTOP WRITE.



CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE TAPE TRANSPORT CONTROLLER NONSTOP, END OF OPERATION, BUSY / READY	PRODUCT 6622
		SIZE C 60125000
		SHEET 26
		21

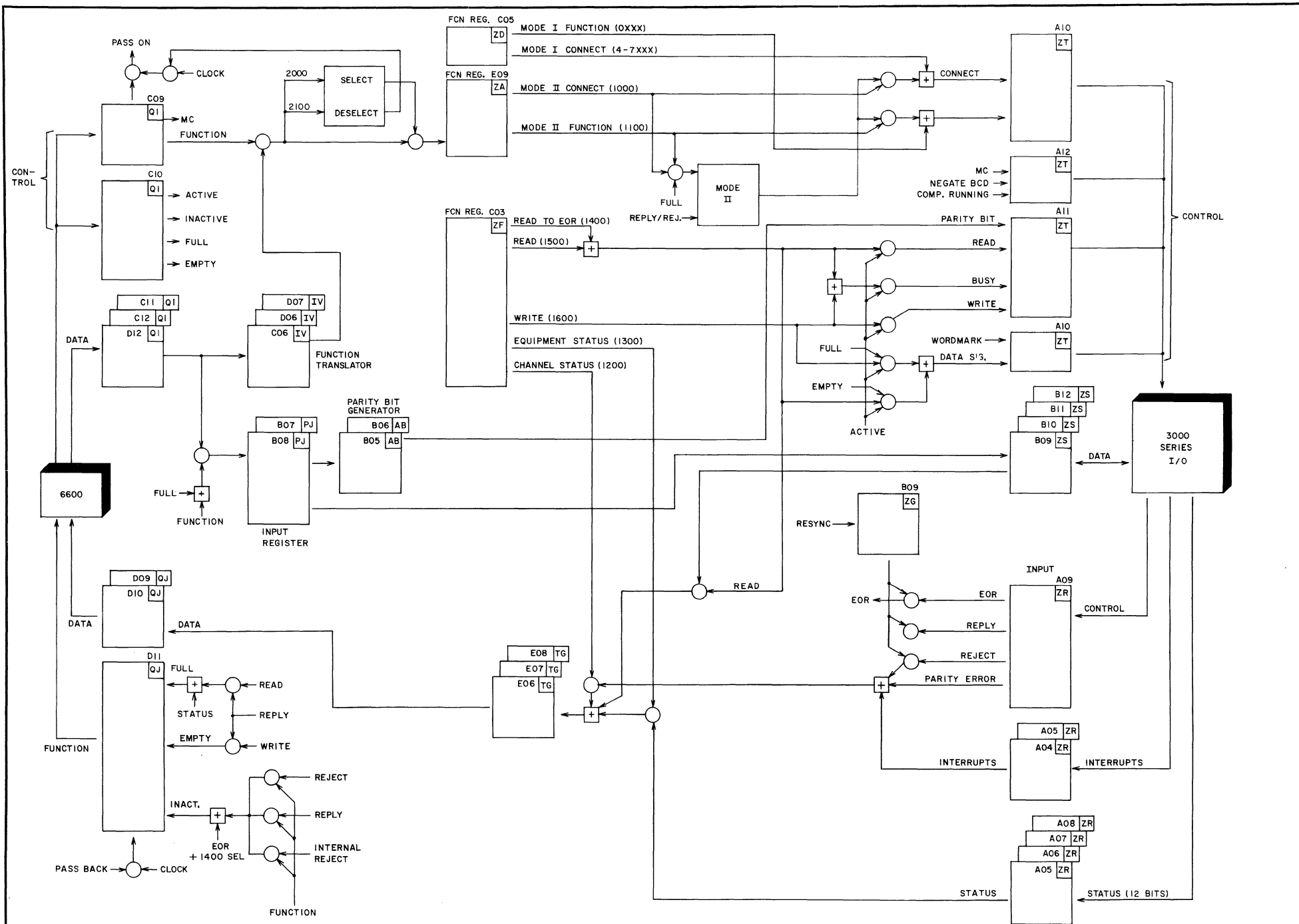


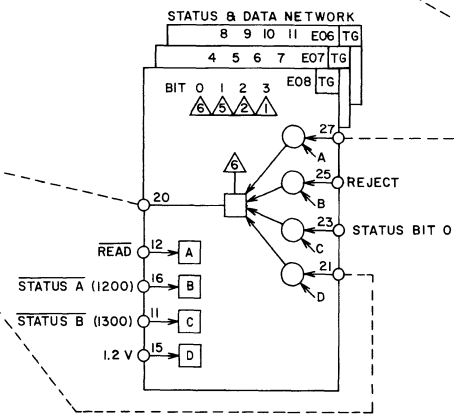
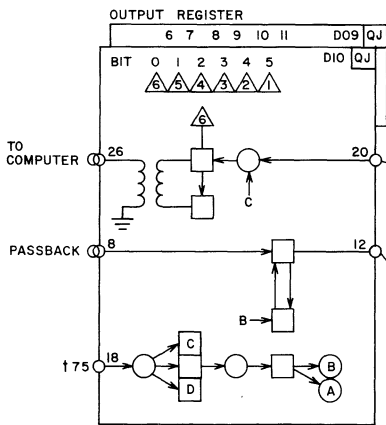
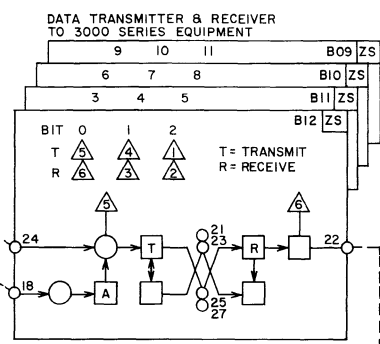
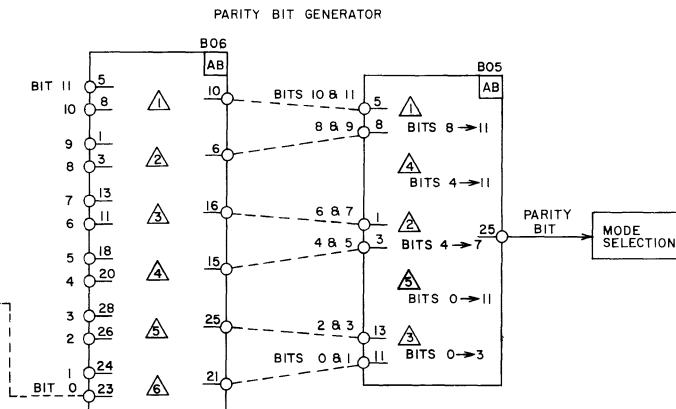
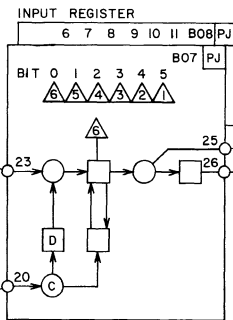
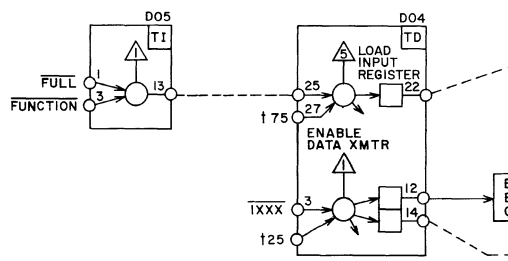
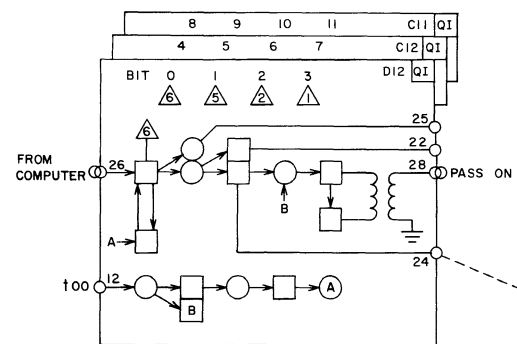
 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT	REV
	TAPE TRANSPORT CONTROLLER	6622	
	CLOCK	SIZE DRAWING NO.	SHEET
		60125000	27
			23

6681 DATA CHANNEL CONVERTER

CONTENTS

Page	Title
ii	Description and Mode of Operation
1	Block Diagram
2	Module Index and Card Placement
3	Data Flow
5	Mode Selection and Status Review
7	External Equipment Commands
9	Function, Connect and Reply
11	Clock

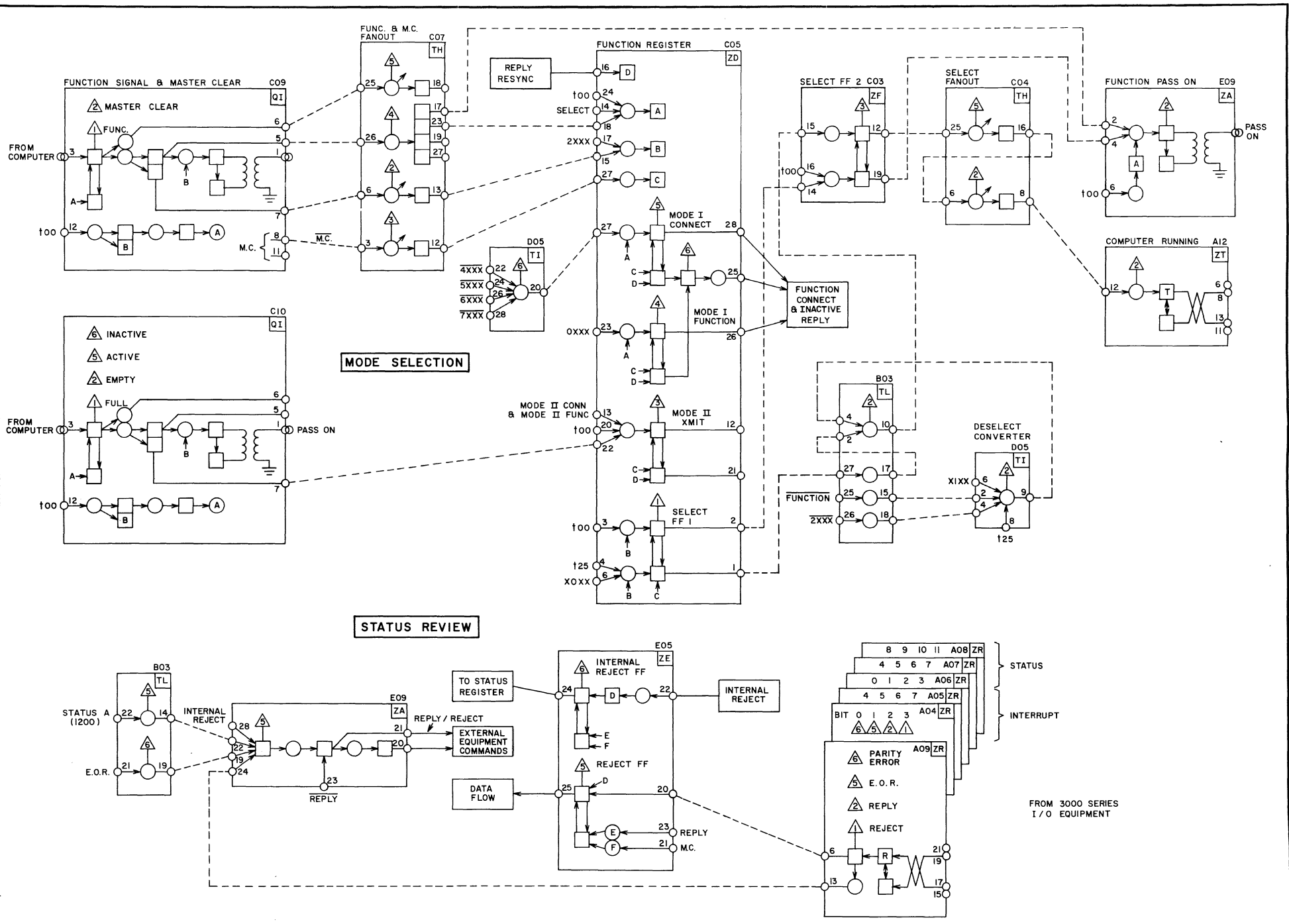




CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
DATA CHANNEL CONVERTER
DATA FLOW

PRODUCT	6681	
SIZE	DRAWING NO.	REV
C	60125000	C
SHEET	PAGE 3	

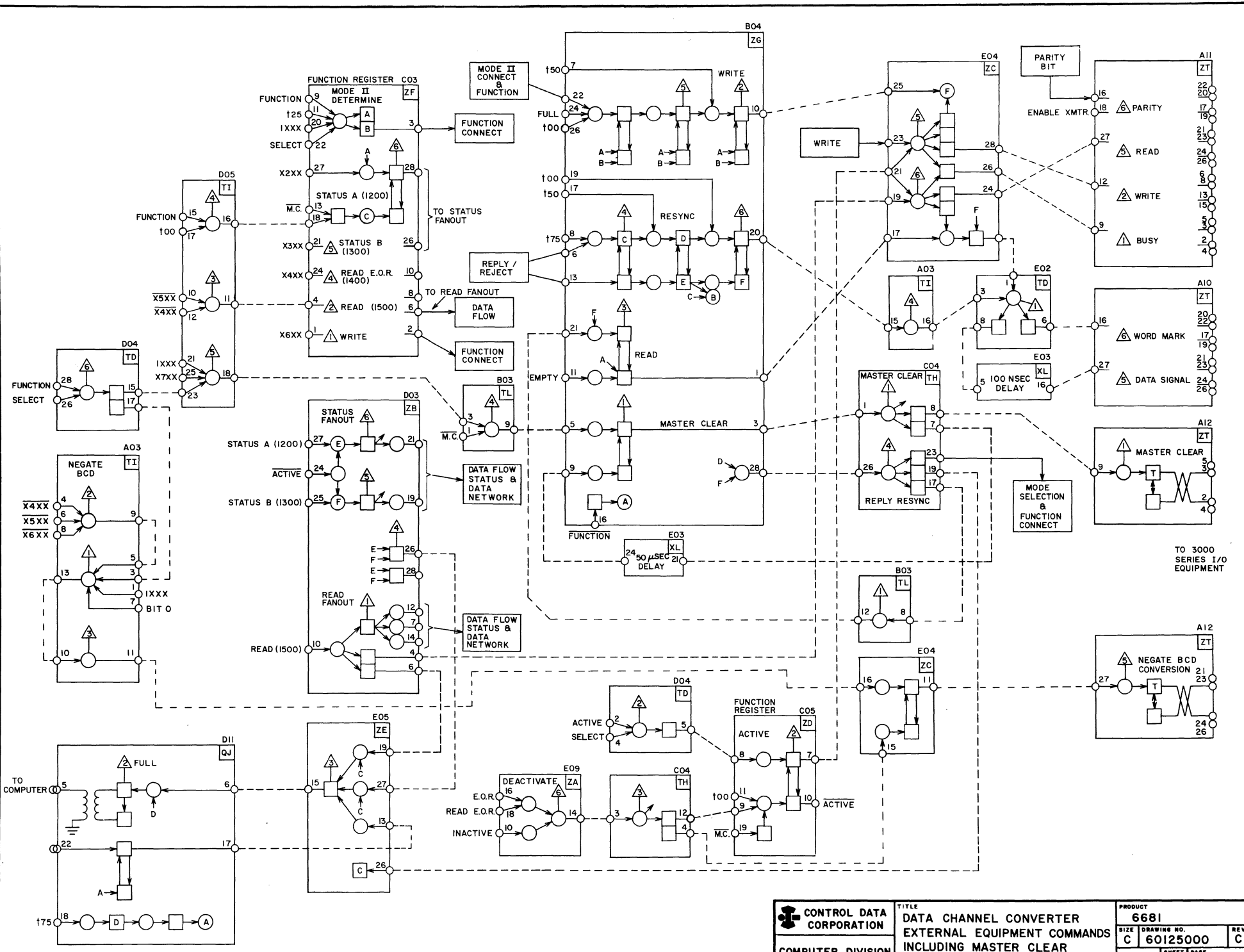


CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
DATA CHANNEL CONVERTER
MODE SELECTION
STATUS REVIEW

PRODUCT
6681

SIZE C	DRAWING NO. 60125000	REV C
SHEET 79	PAGE 5	

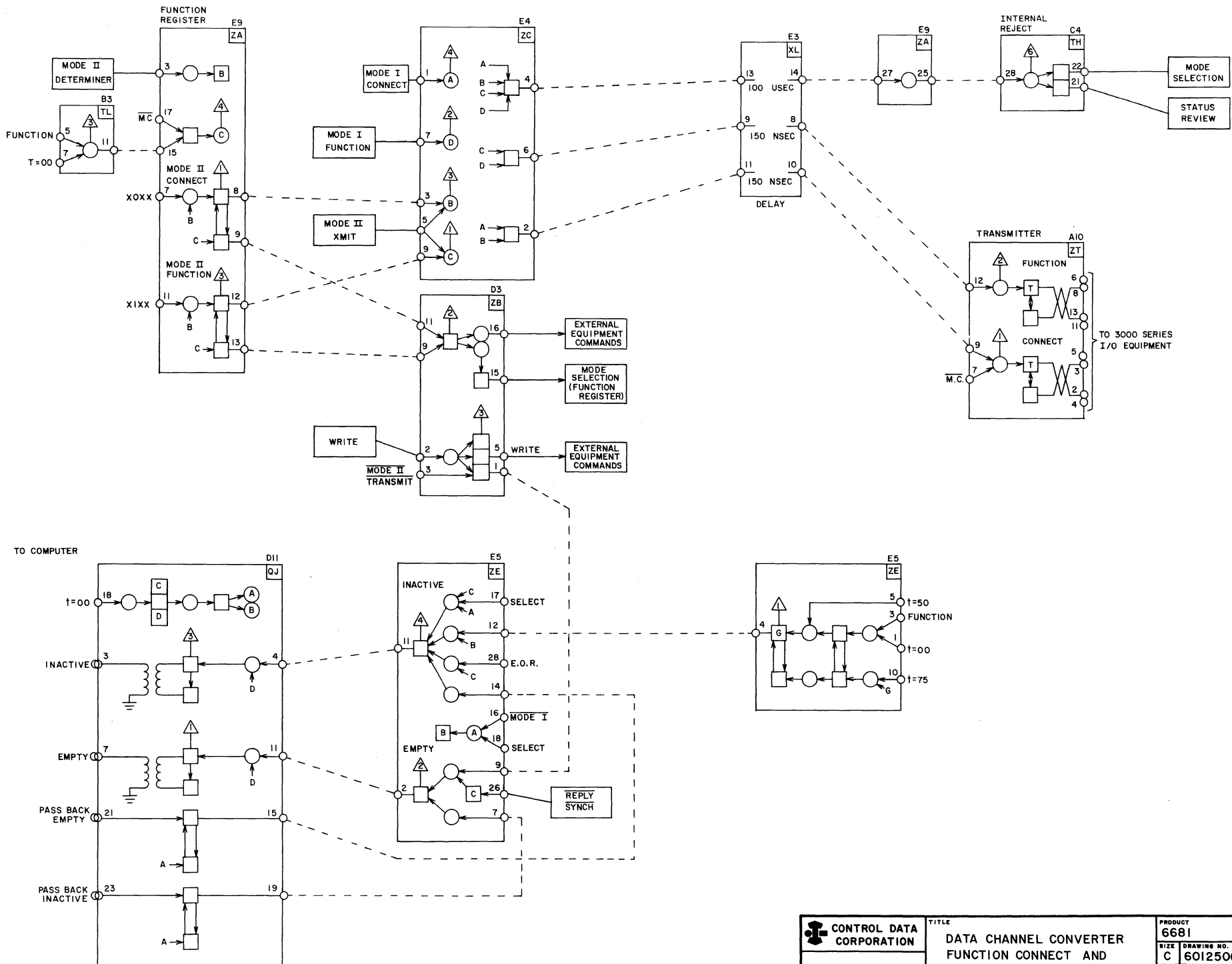


TO 3000 SERIES I/O EQUIPMENT

CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
DATA CHANNEL CONVERTER
EXTERNAL EQUIPMENT COMMANDS
INCLUDING MASTER CLEAR

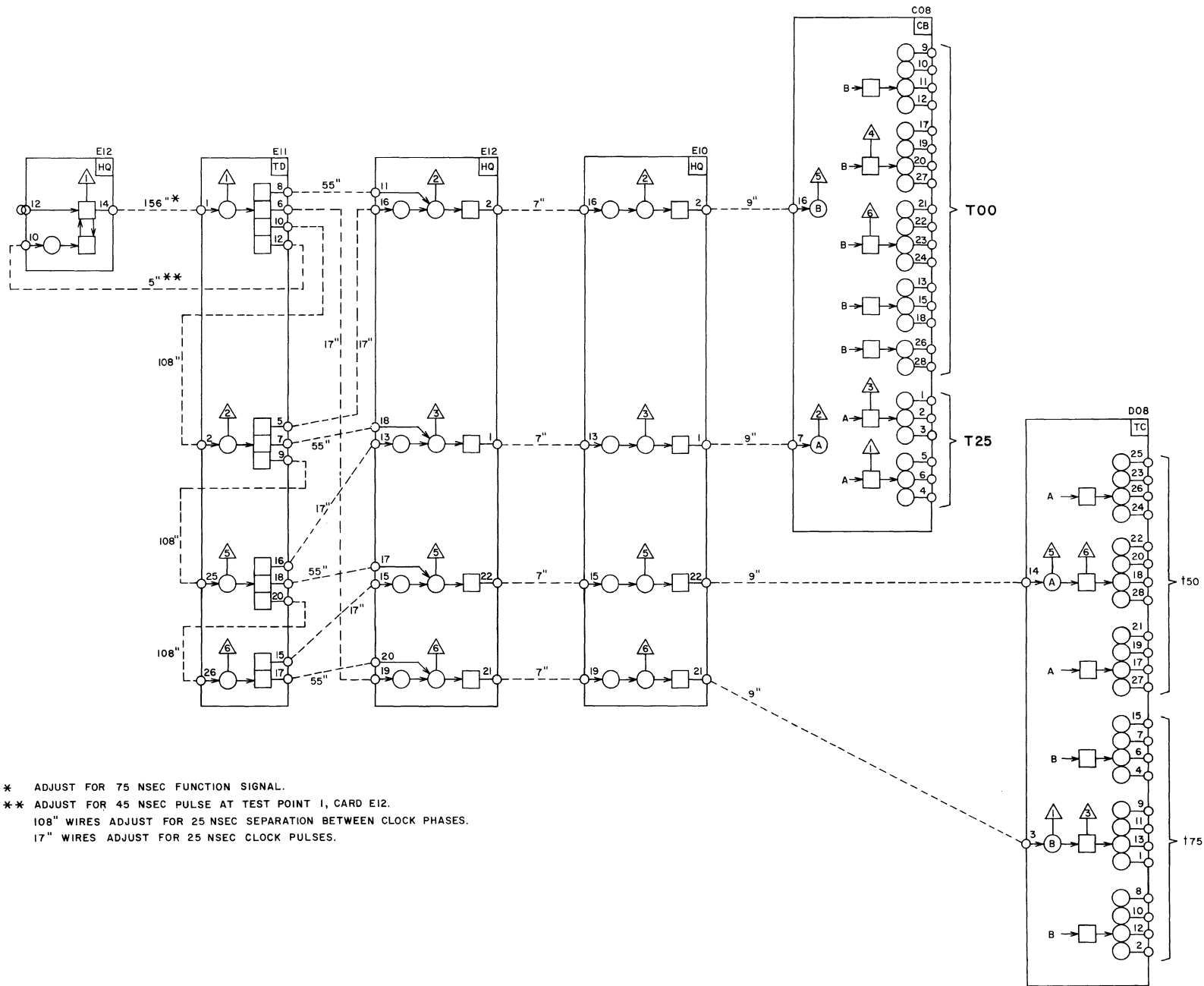
PRODUCT 6681	REV C
SIZE C	DRAWING NO. 60125000
SHEET 80	PAGE 7



CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
 DATA CHANNEL CONVERTER
 FUNCTION CONNECT AND
 INACTIVE REPLY

PRODUCT 6681		REV C
SIZE C	DRAWING NO. 60125000	REV C
SHEET 81	PAGE 9	



* ADJUST FOR 75 NSEC FUNCTION SIGNAL.
 ** ADJUST FOR 45 NSEC PULSE AT TEST POINT 1, CARD E12.
 108" WIRES ADJUST FOR 25 NSEC SEPARATION BETWEEN CLOCK PHASES.
 17" WIRES ADJUST FOR 25 NSEC CLOCK PULSES.

CONTROL DATA CORPORATION
 COMPUTER DIVISION

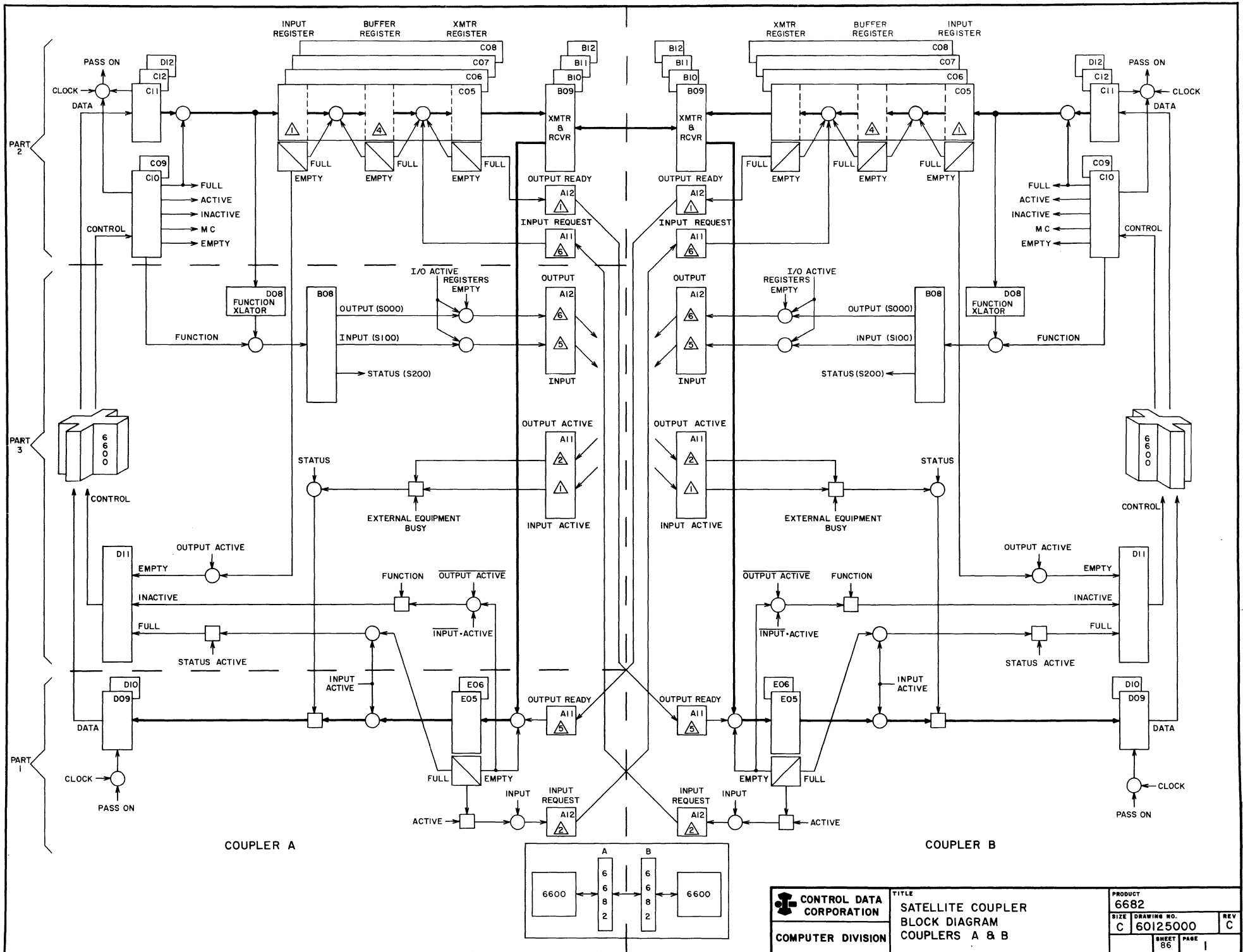
TITLE
 DATA CHANNEL CONVERTER
 CLOCK

PRODUCT 6681		REV C
SIZE C	DRAWING NO. 60125000	
SHEET 82	PAGE 11	

6682 SATELLITE COUPLER

CONTENTS

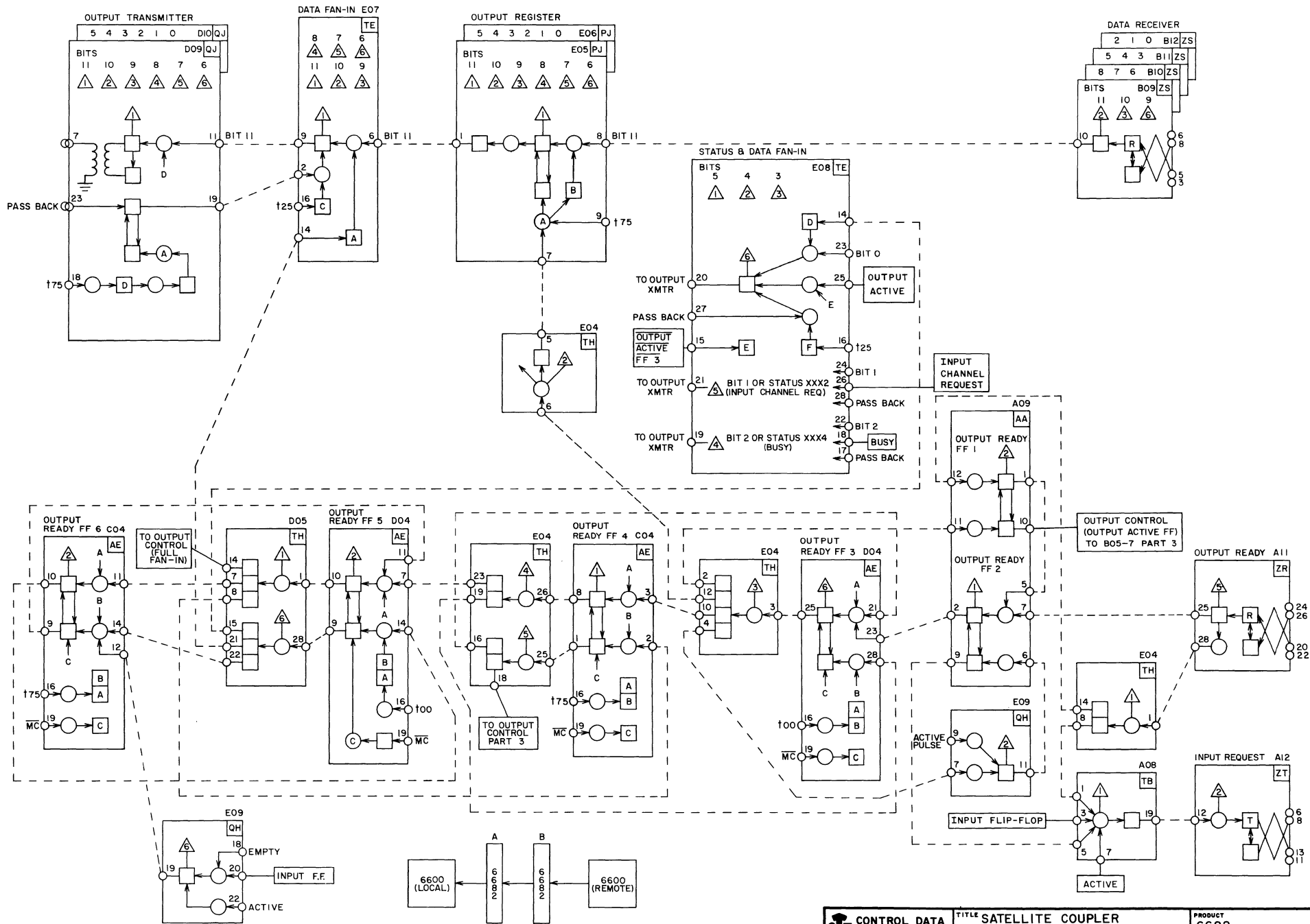
Page	Title
ii	Description and Mode of Operation
1	Block Diagram
2	Module Index and Card Placement
3	Part 1
5	Part 2
7	Part 3
9	Clock



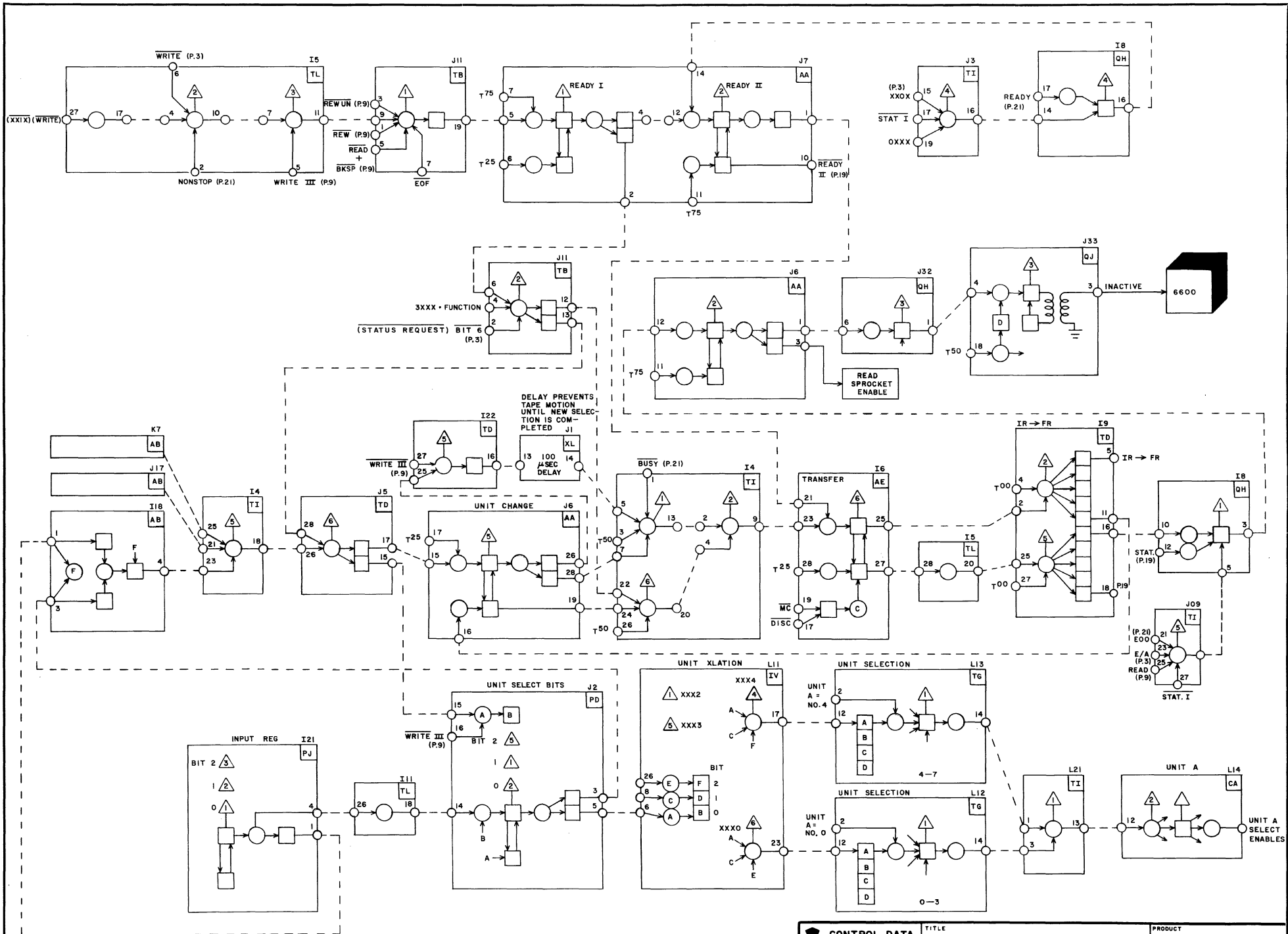
COUPLER A

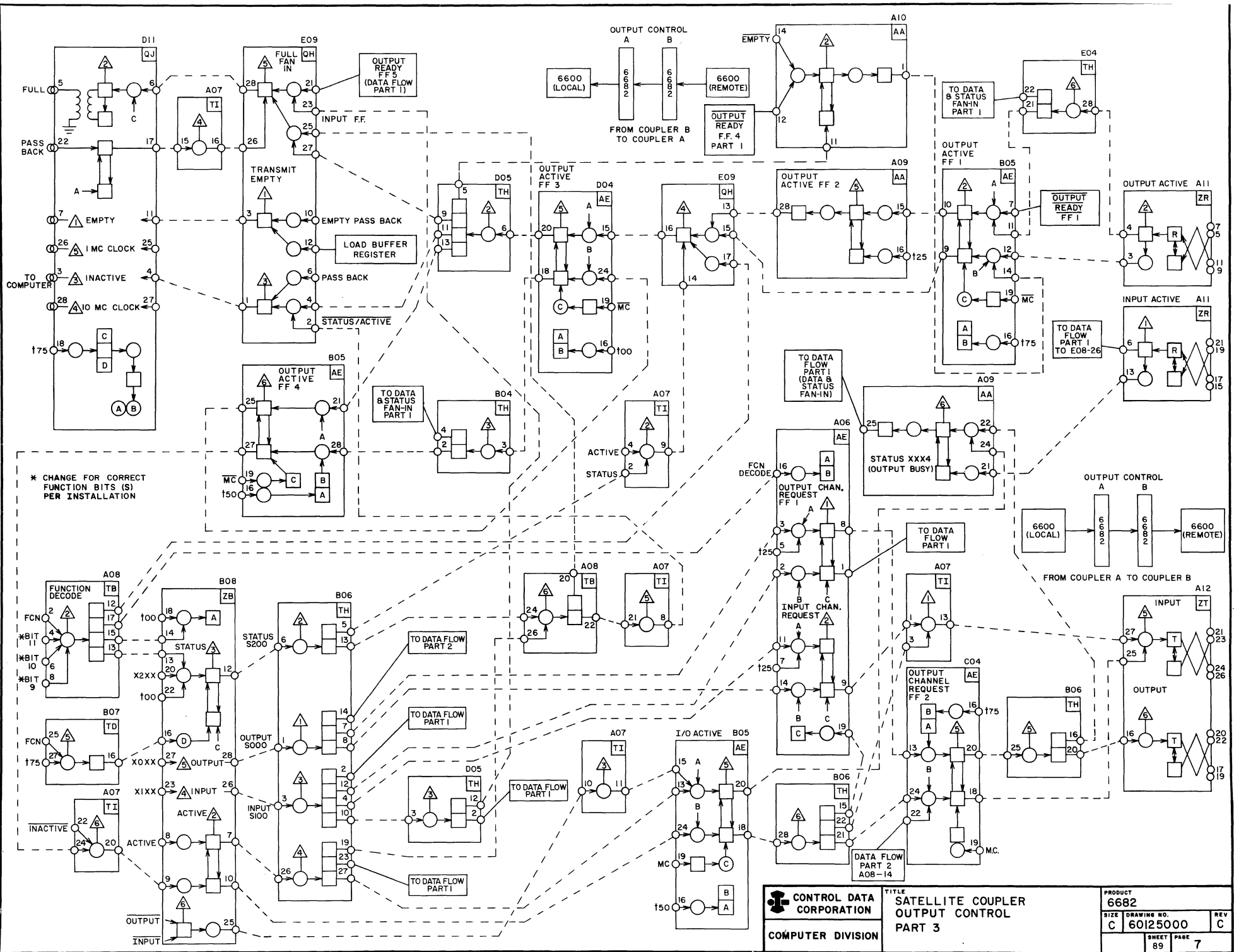
COUPLER B

CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE SATELLITE COUPLER BLOCK DIAGRAM COUPLERS A & B	PRODUCT 6682	
		SIZE C	DRAWING NO. 60125000
		SHEET 86	PAGE 1



 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE SATELLITE COUPLER DATA FLOW & CONTROL COUPLER A INPUT PART 1		PRODUCT 6682	
	SIZE C	DRAWING NO. 60125000	REV C	REV C
	SHEET 87		PAGE 3	

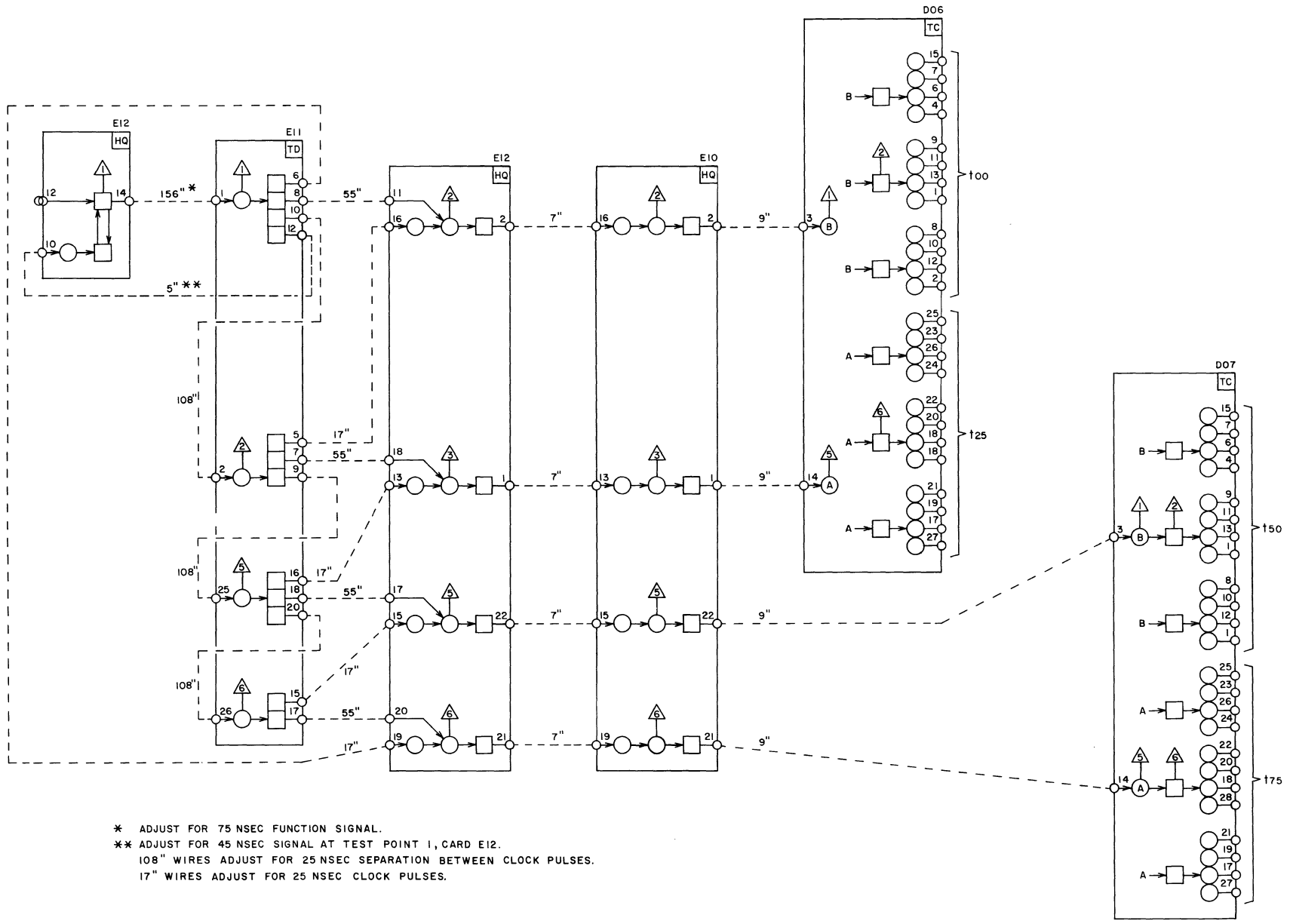




CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
**SATELLITE COUPLER
 OUTPUT CONTROL
 PART 3**

PRODUCT 6682		REV C
SIZE C	DRAWING NO. 60125000	SHEET 89
PAGE 7		

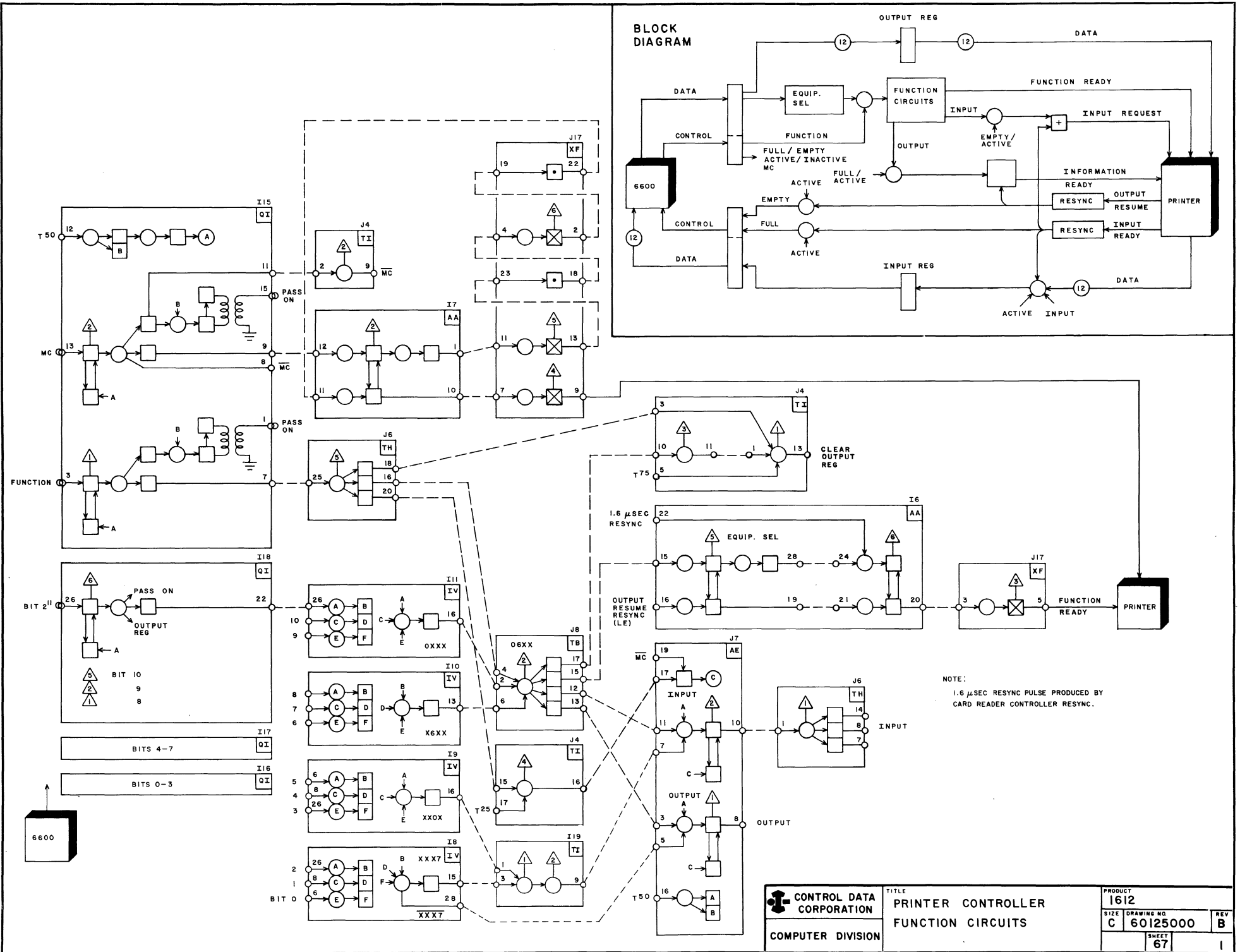


* ADJUST FOR 75 NSEC FUNCTION SIGNAL.
 ** ADJUST FOR 45 NSEC SIGNAL AT TEST POINT 1, CARD E12.
 108" WIRES ADJUST FOR 25 NSEC SEPARATION BETWEEN CLOCK PULSES.
 17" WIRES ADJUST FOR 25 NSEC CLOCK PULSES.

S.O. 60022 6000 SERIES DATA CHANNEL CONVERTER (1612 PRINTER)

CONTENTS

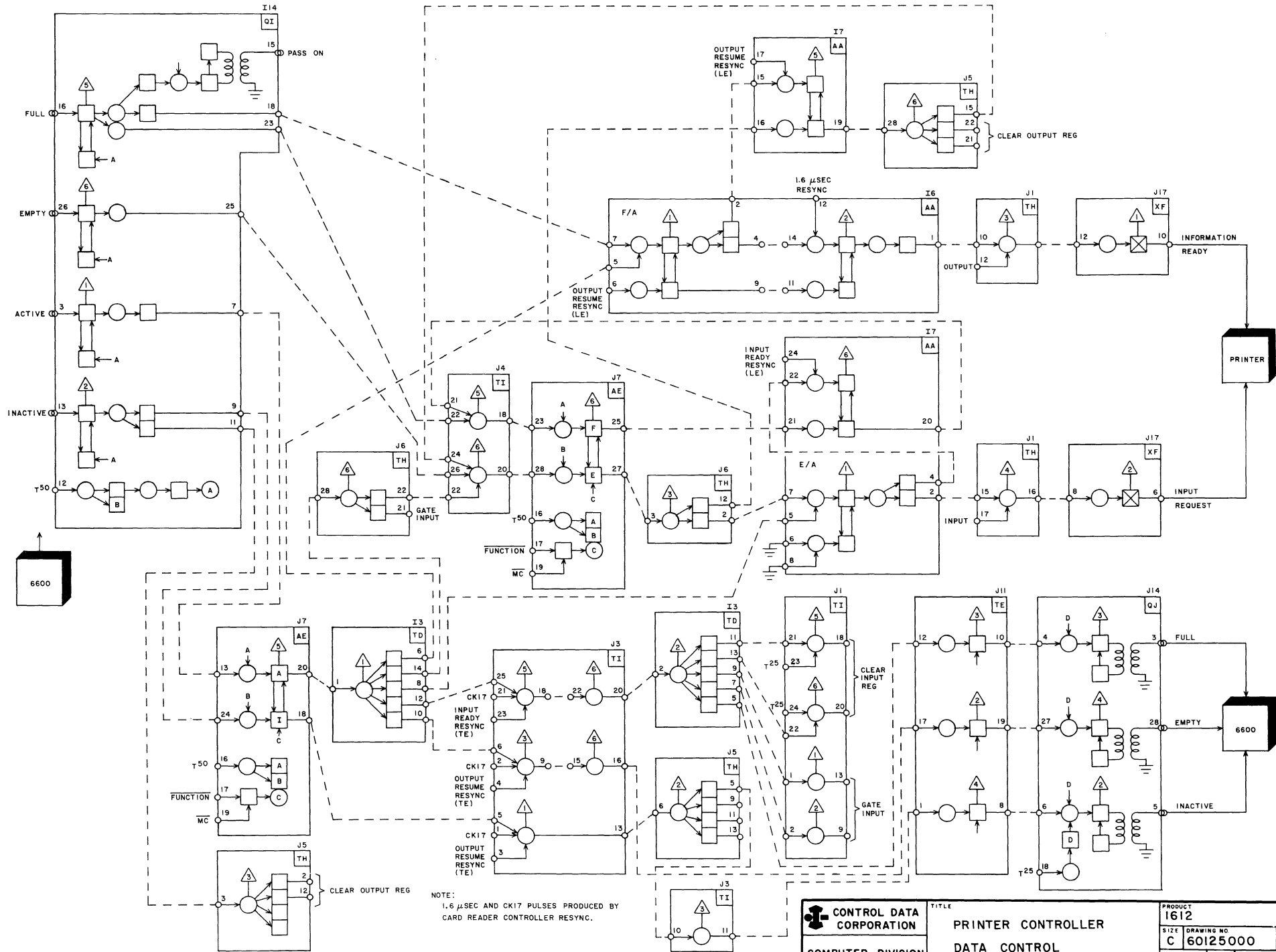
Page	Title
ii	1612 Line Printer Controller
1	Function Circuits
2	Basic Principles of Operation
3	Data Control
4	Resynchronization
5	Data Flow
6	1612 Printer Characteristics
7	Clock



CONTROL DATA CORPORATION
COMPUTER DIVISION

TITLE
PRINTER CONTROLLER
FUNCTION CIRCUITS

PRODUCT 1612		REV B
SIZE C	DRAWING NO. 60125000	SHEET 67

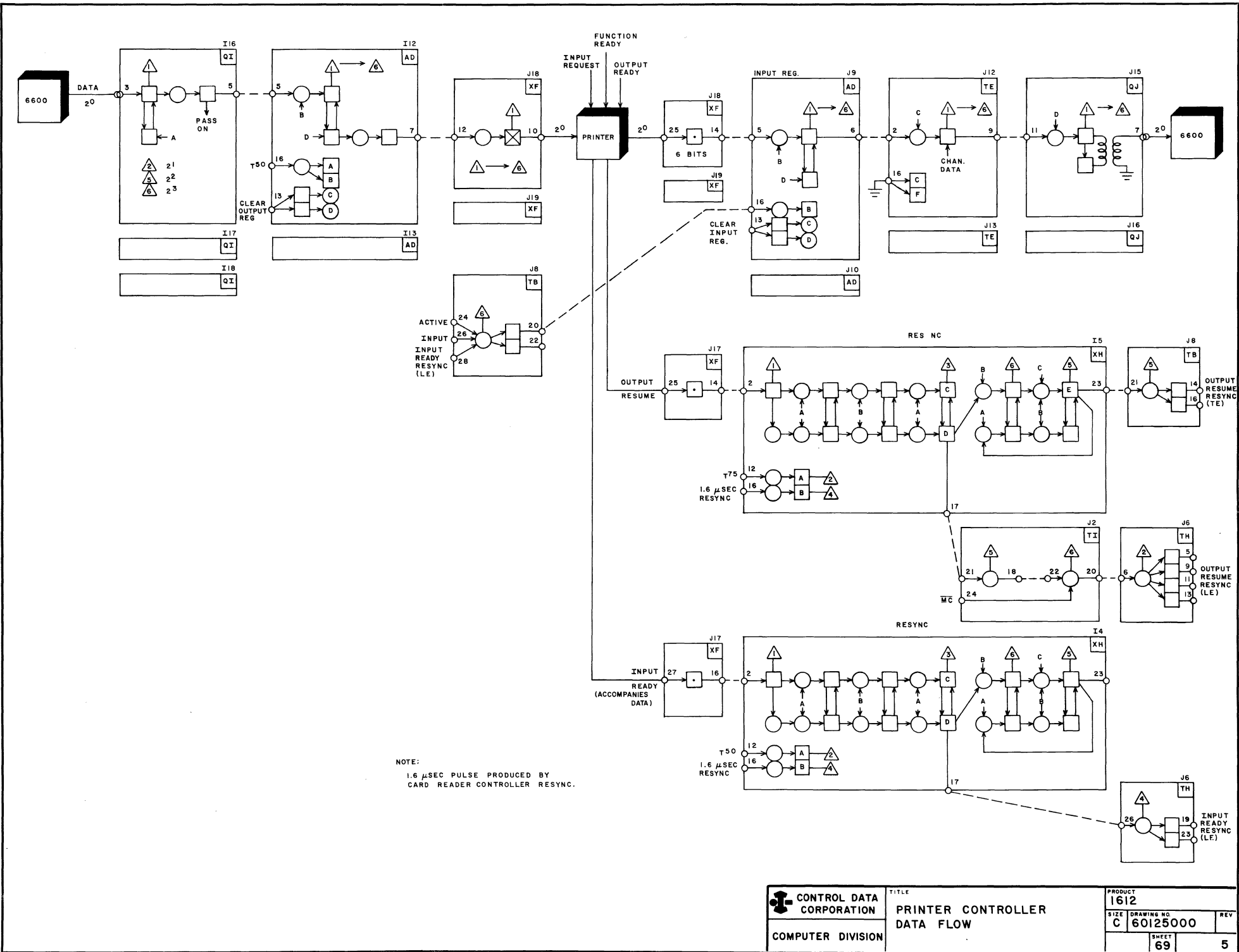


NOTE:
1.6 μSEC AND CK17 PULSES PRODUCED BY
CARD READER CONTROLLER RESYNC.

CONTROL DATA CORPORATION
COMPUTER DIVISION

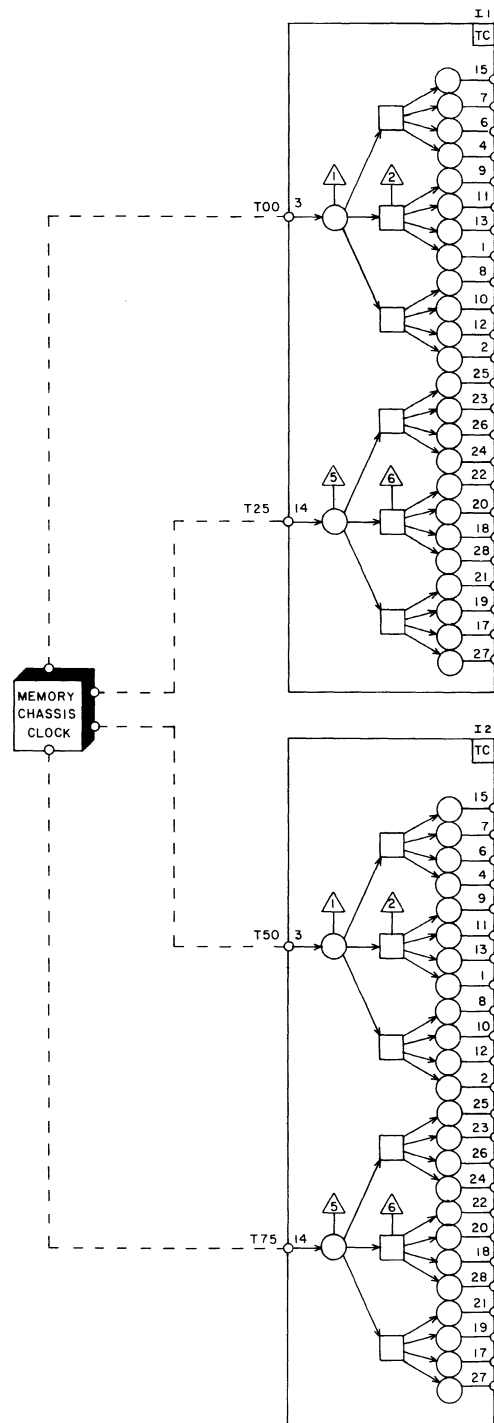
TITLE
PRINTER CONTROLLER
DATA CONTROL


PRODUCT
1612
SIZE DRAWING NO
C 60125000
REV
68
SHEET
3



NOTE:
1.6 μSEC PULSE PRODUCED BY
CARD READER CONTROLLER RESYNC.

 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE PRINTER CONTROLLER DATA FLOW	PRODUCT 1612
	SIZE C	DRAWING NO. 60125000
SHEET 69		5

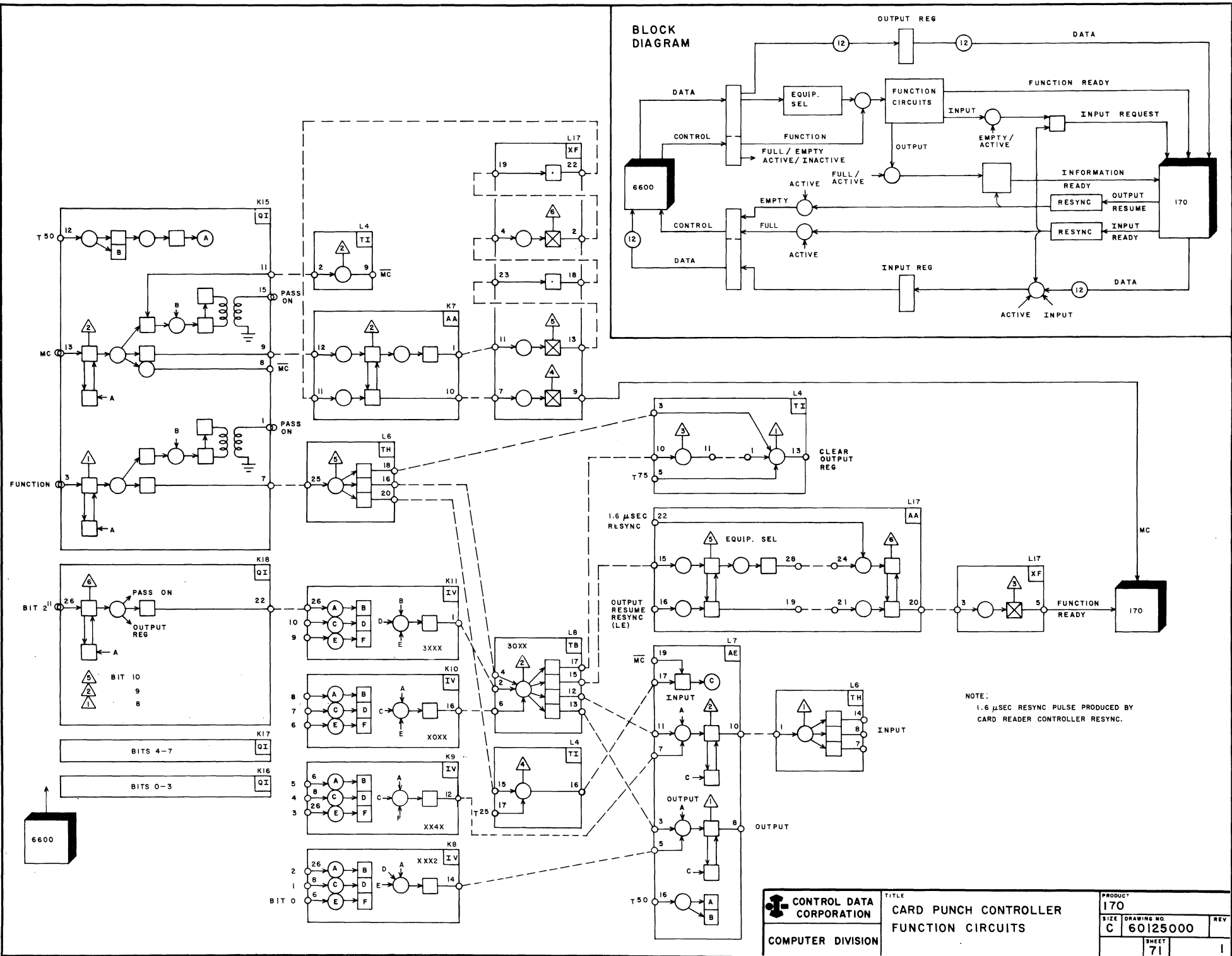


 CONTROL DATA CORPORATION COMPUTER DIVISION	PRINTER CONTROLLER CLOCK	PRODUCT 1612		SIZE C	DRAWING NO. 60125000	REV.
		SHEET 70		SHEET 7		

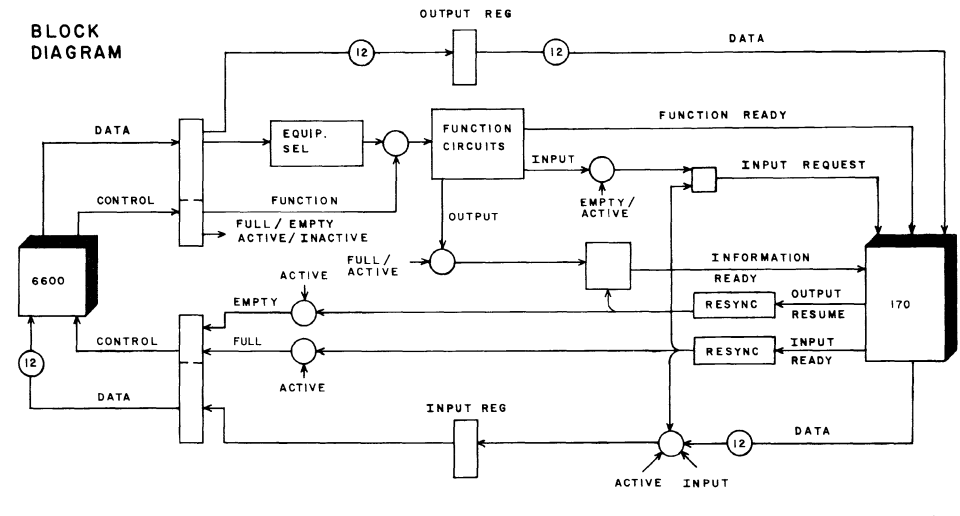
S.O. 60022 6000 SERIES DATA CHANNEL CONVERTER (170 CARD PUNCH)

CONTENTS

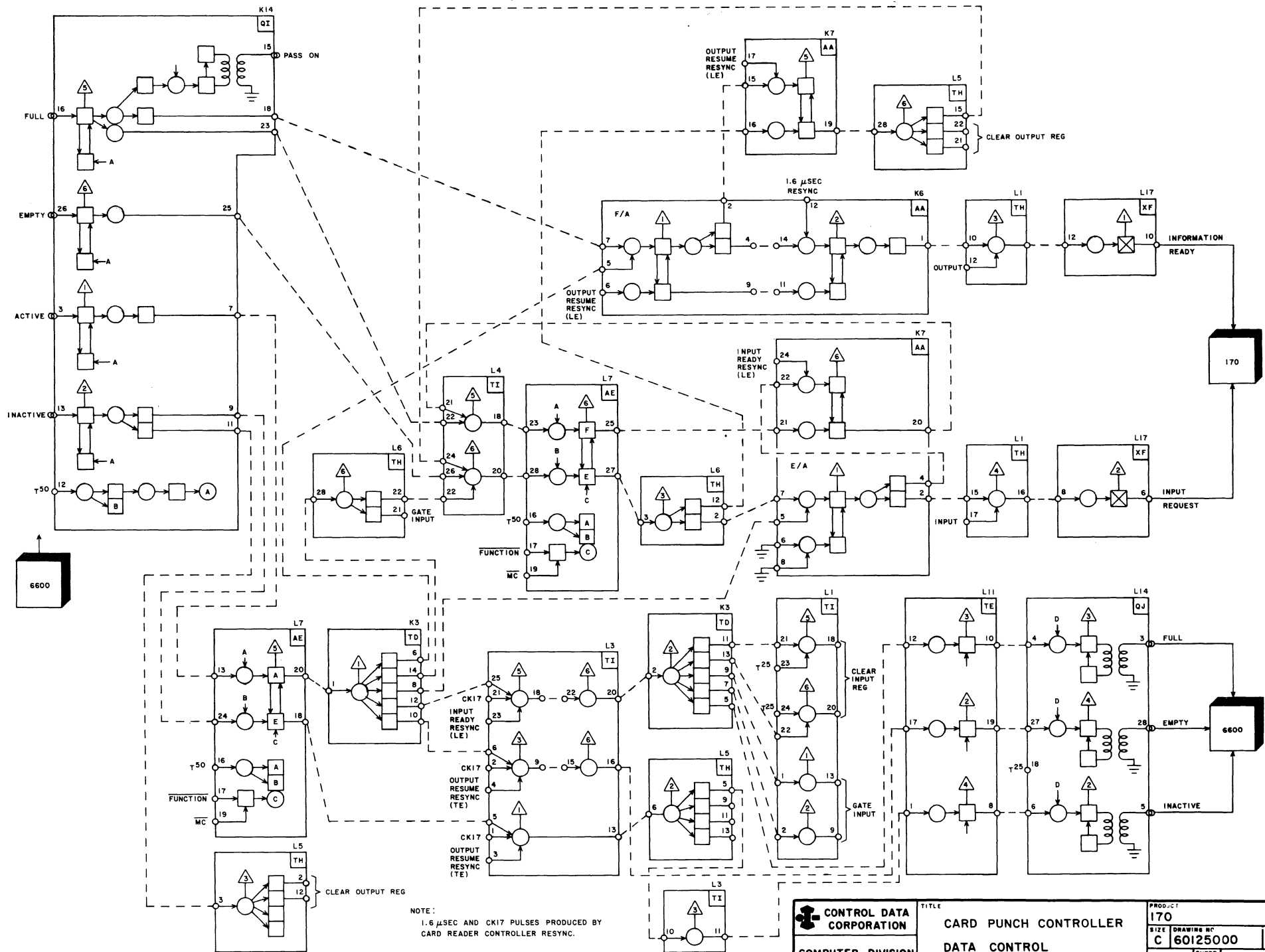
Page	Title
ii	170 Card Punch Controller
1	Function Circuits
2	Punch Characteristics
3	Data Control
5	Data Flow
7	Clock



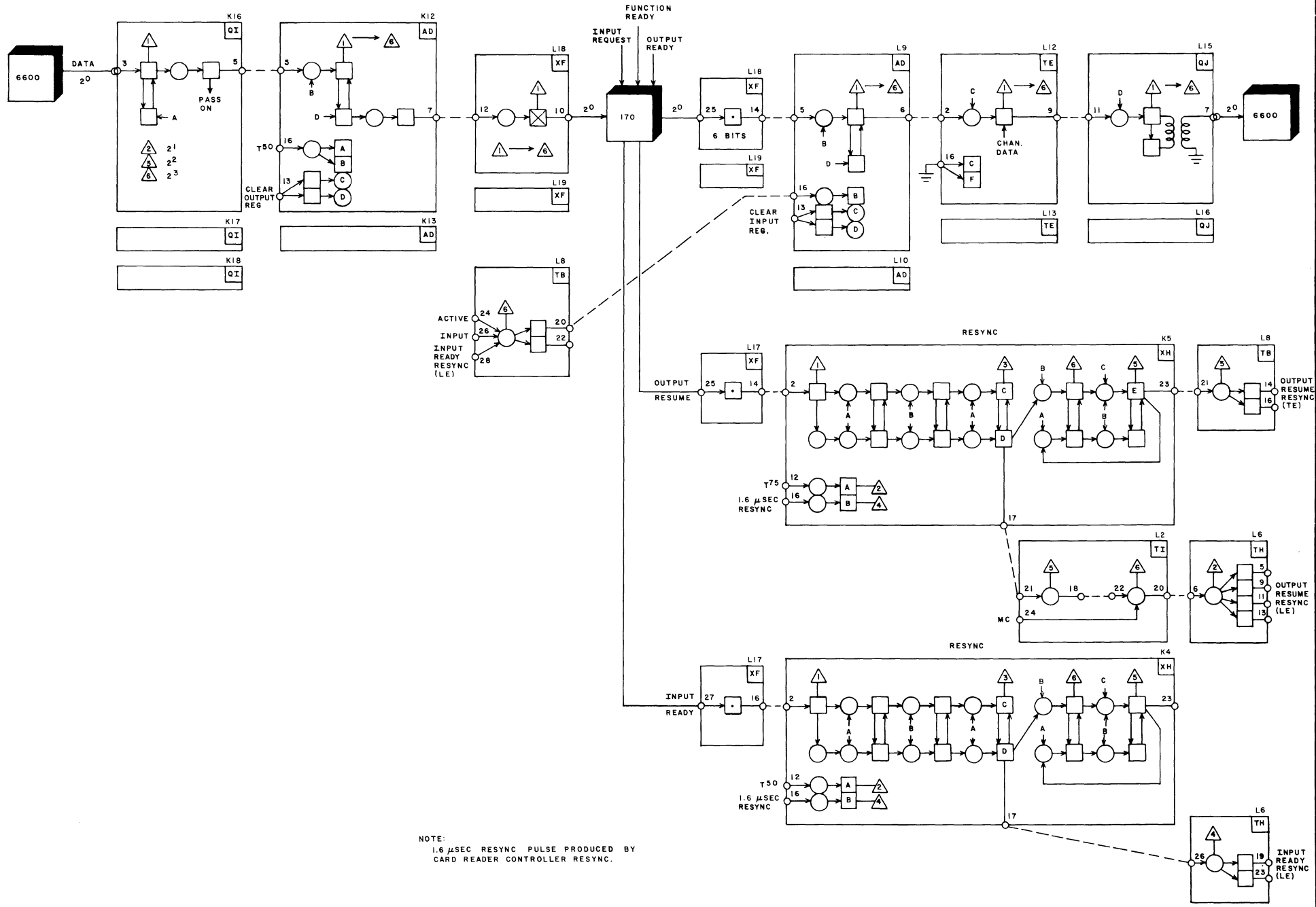
BLOCK DIAGRAM



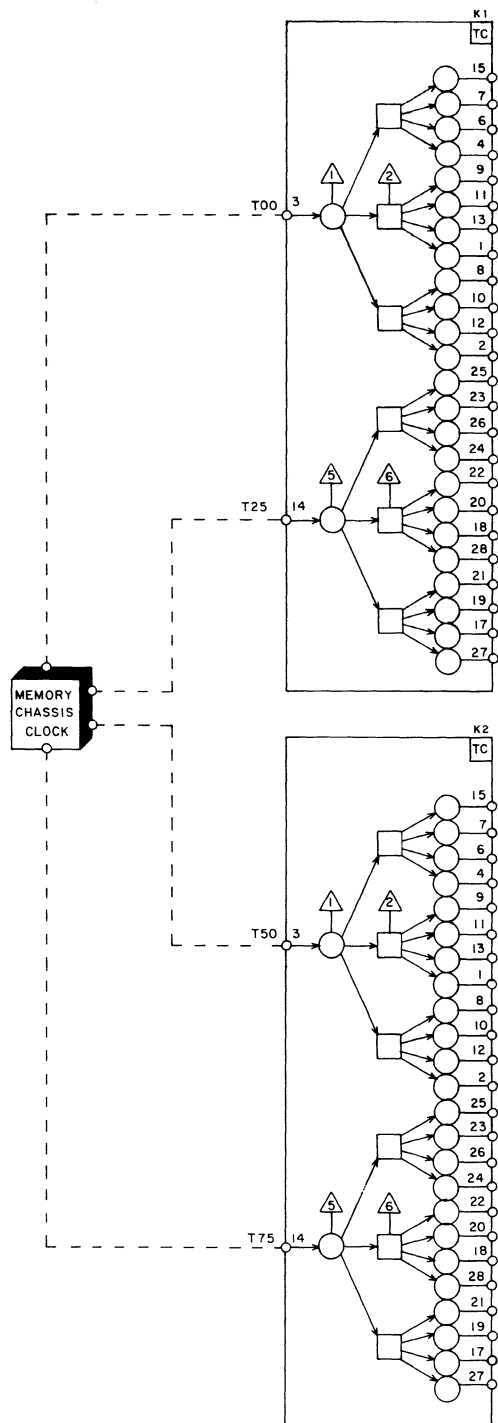
NOTE:
1.6 μSEC RESYNC PULSE PRODUCED BY
CARD READER CONTROLLER RESYNC.



NOTE:
 1.6 μSEC AND CK17 PULSES PRODUCED BY
 CARD READER CONTROLLER RESYNC.



NOTE:
1.6 μSEC. RESYNC PULSE PRODUCED BY
CARD READER CONTROLLER RESYNC.

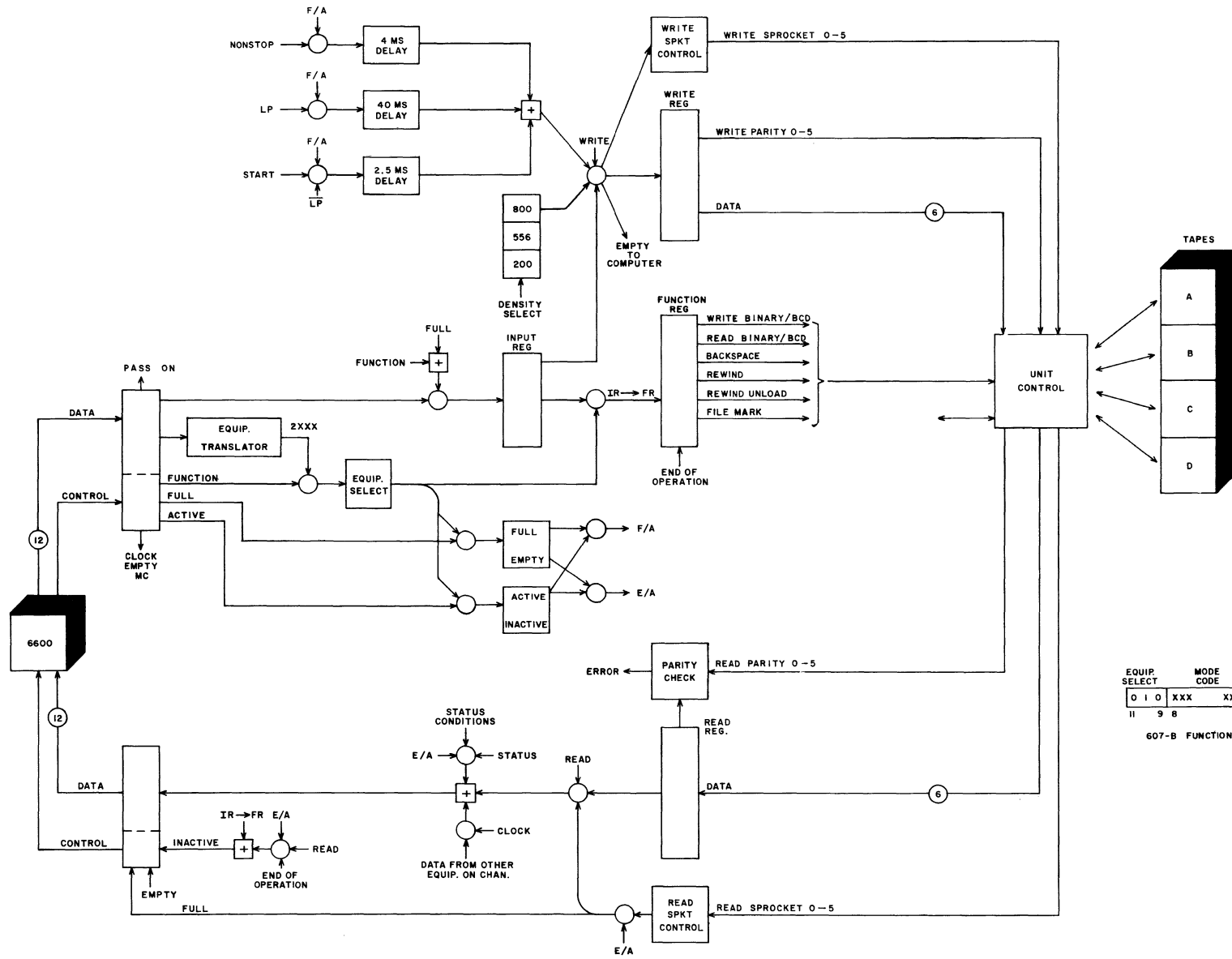


 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT	REV
	CARD PUNCH CONTROLLER	170	
	CLOCK	SIZE DRAWING NO	C 60125000
		SHEET	7
		74	

S.O. 60028 6000 SERIES I X 4 607 TAPE TRANSPORT CONTROLLER

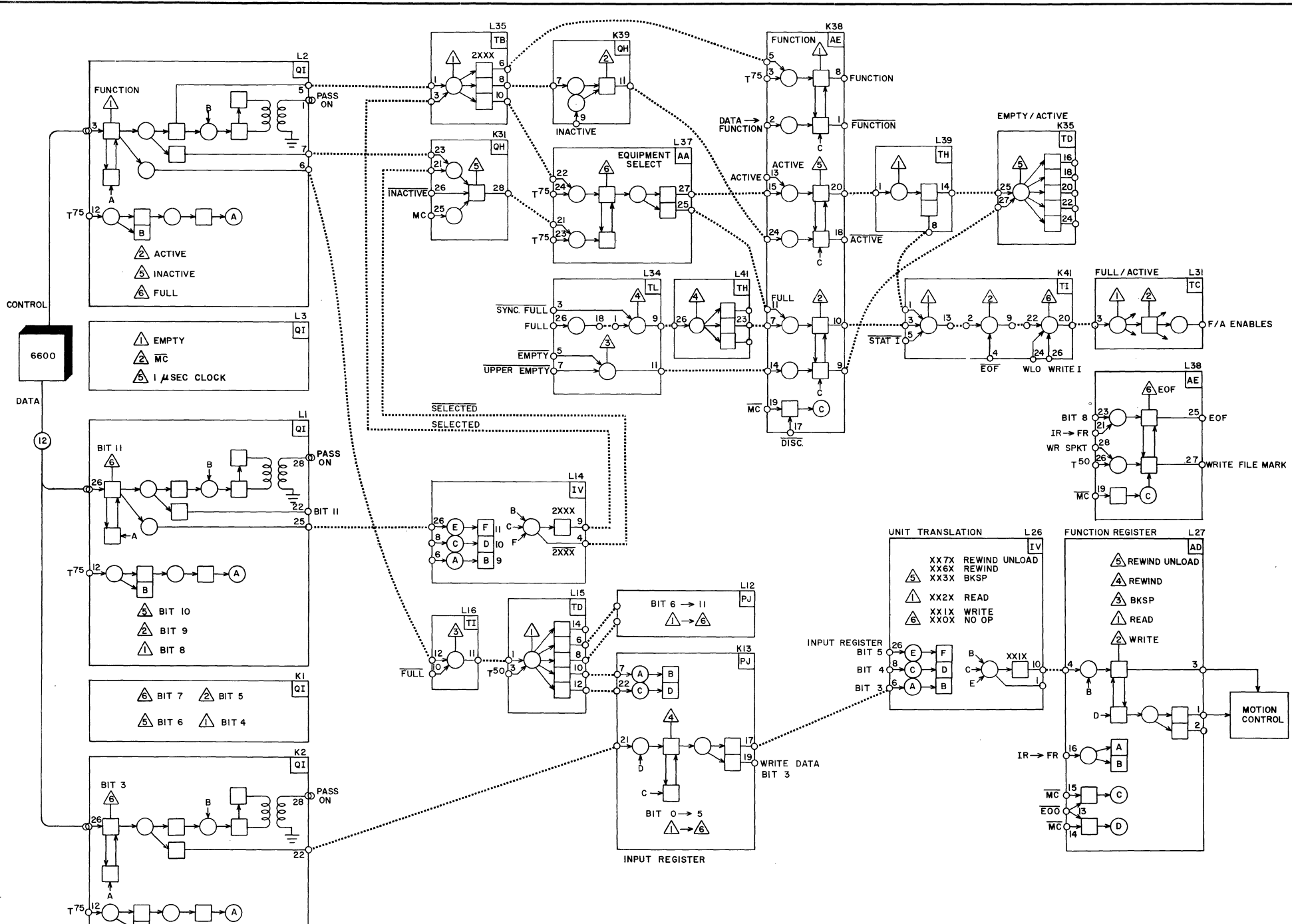
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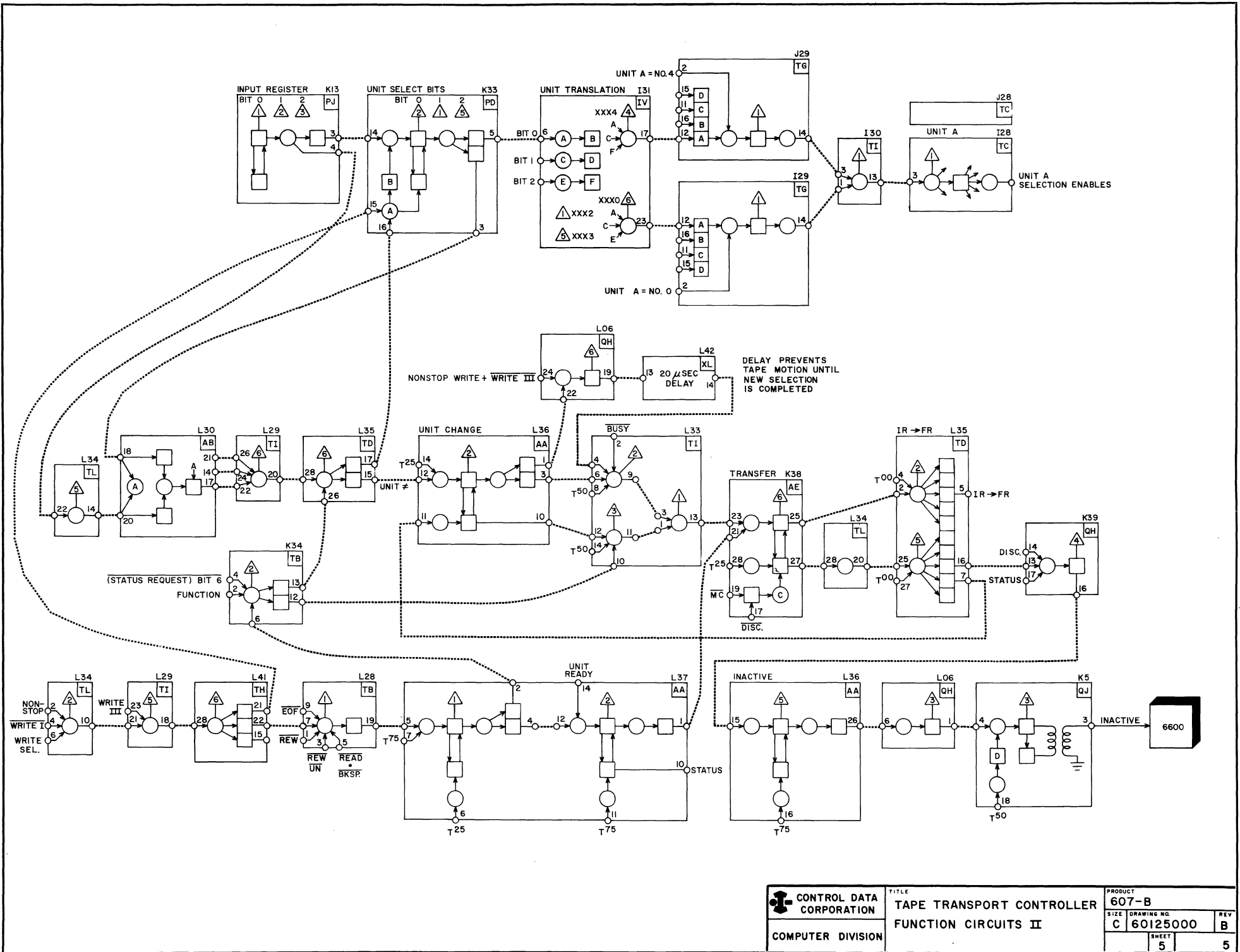
Page	Title
1	Block Diagram
3	Function Circuits I
5	Function Circuits II
7	Unit Control
9	Motion Control
11	Write Osc.
13	Write Data Flow
15	Write Sprocket Control
17	Read Data Flow, Sprocket Control
19	Read Parity Check, End of Record
21	Status Circuits
23	Non-Stop, End of Operation, Busy/Ready
25	Clock



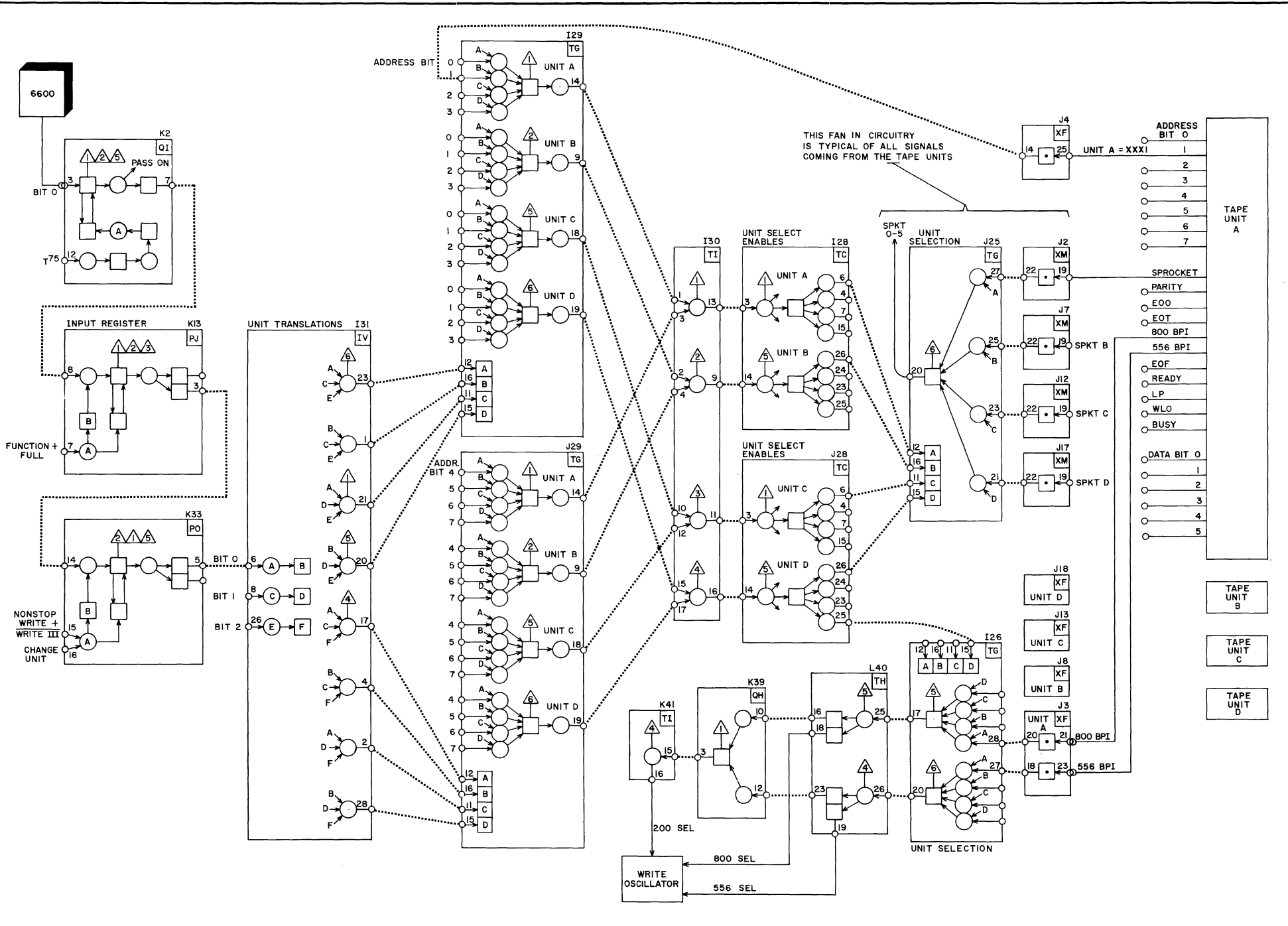
EQUIP. SELECT	MODE CODE	UNIT SELECT
0 1 0	XXX	XXX
11	9 8	3 2 0

607-B FUNCTION WORD

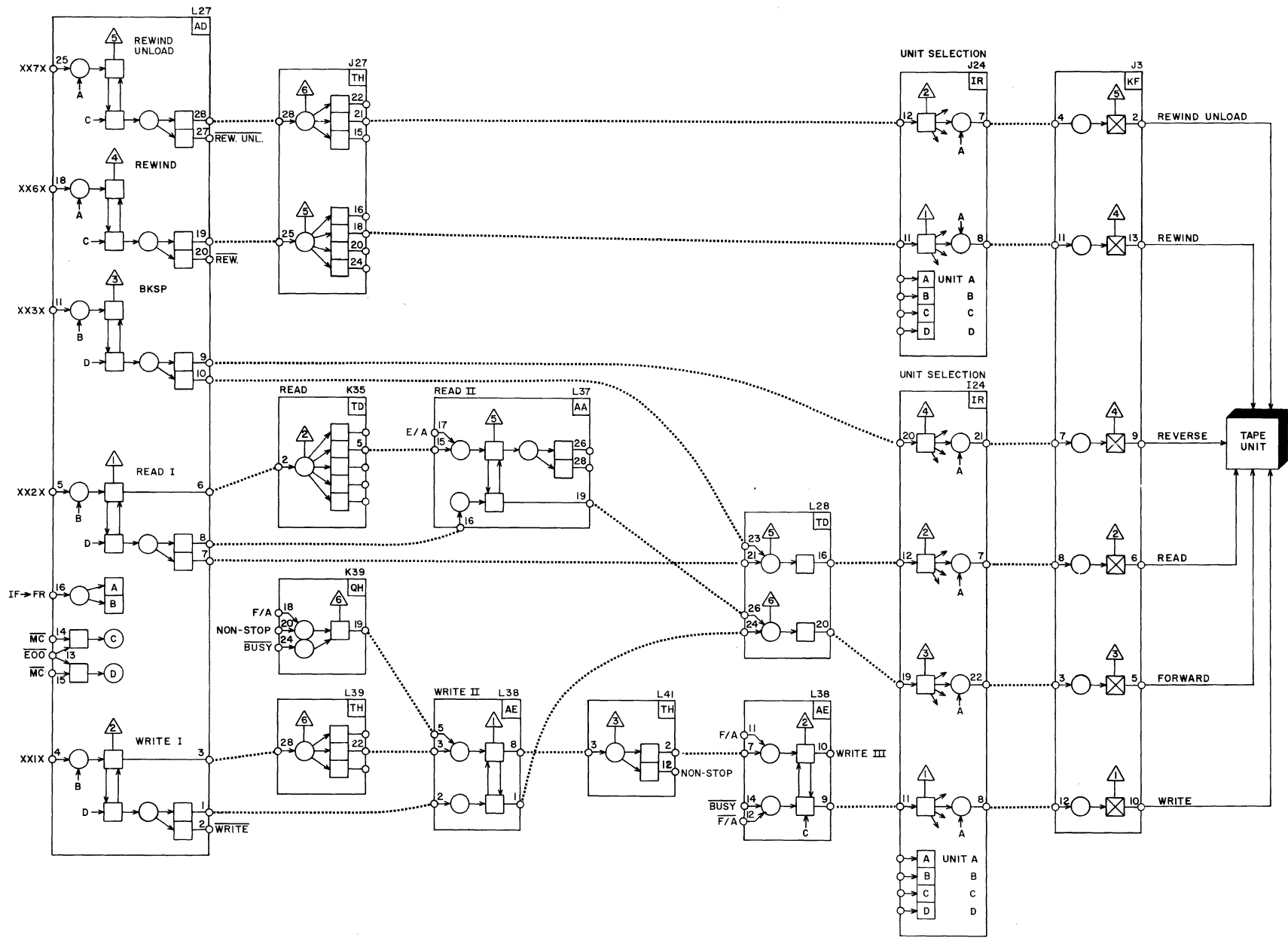





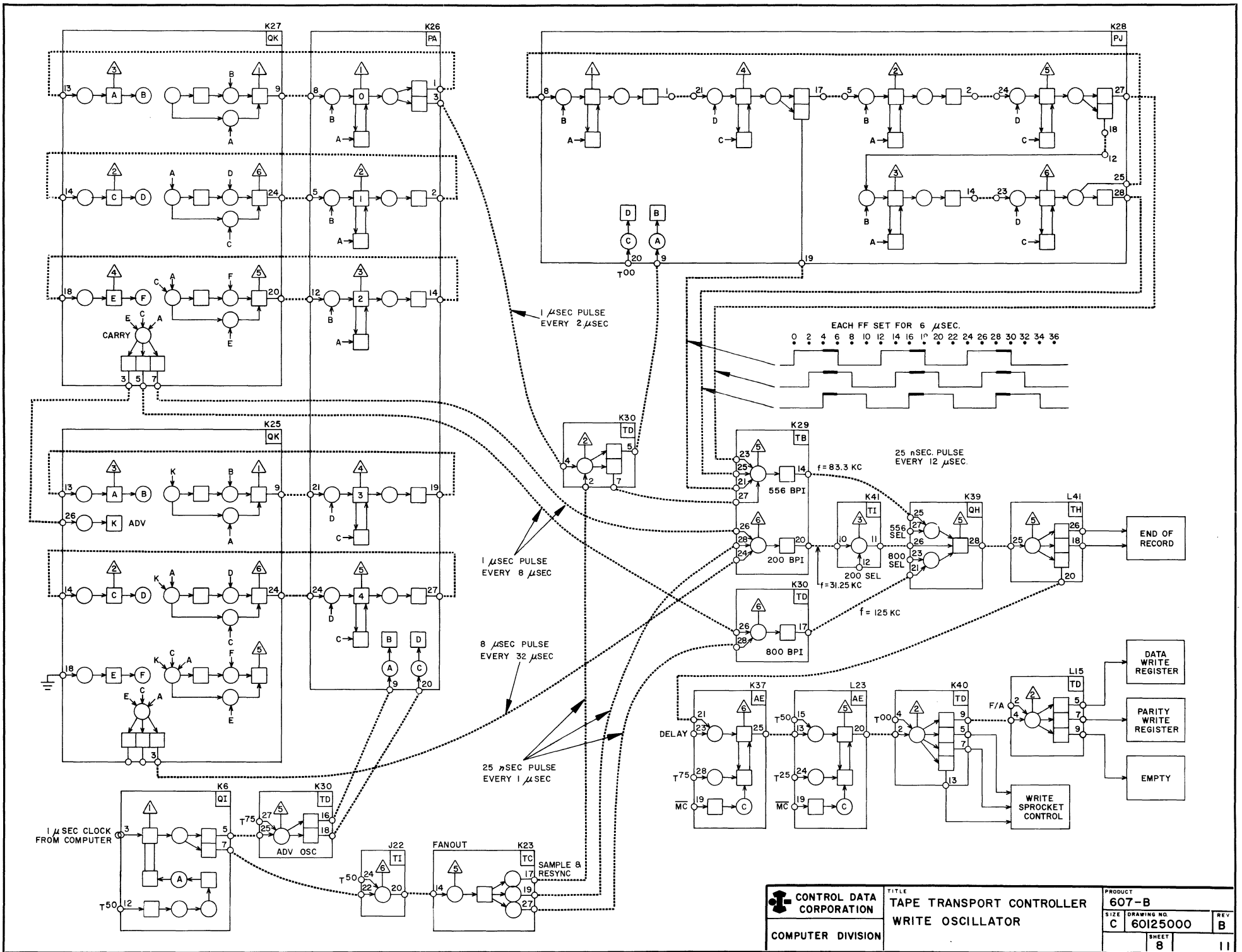
 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE TAPE TRANSPORT CONTROLLER FUNCTION CIRCUITS II	PRODUCT 607-B	REV B
	SIZE C	DRAWING NO. 60125000	SHEET 5
			5



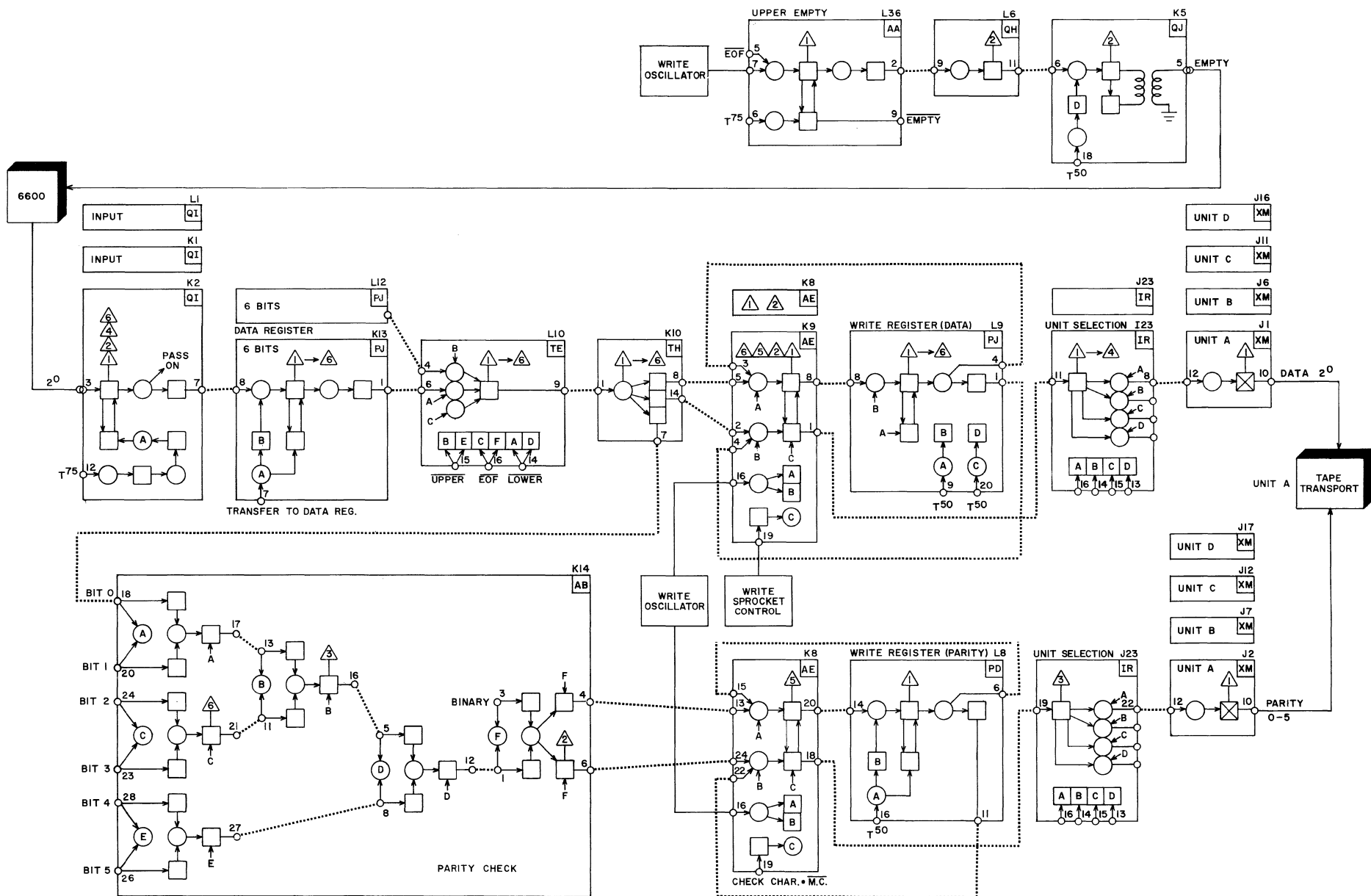
CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE TAPE TRANSPORT CONTROLLER UNIT CONTROL	PRODUCT 607-B	
	SIZE C	DRAWING NO. 60125000	REV A
	SHEET 6	OF 7	

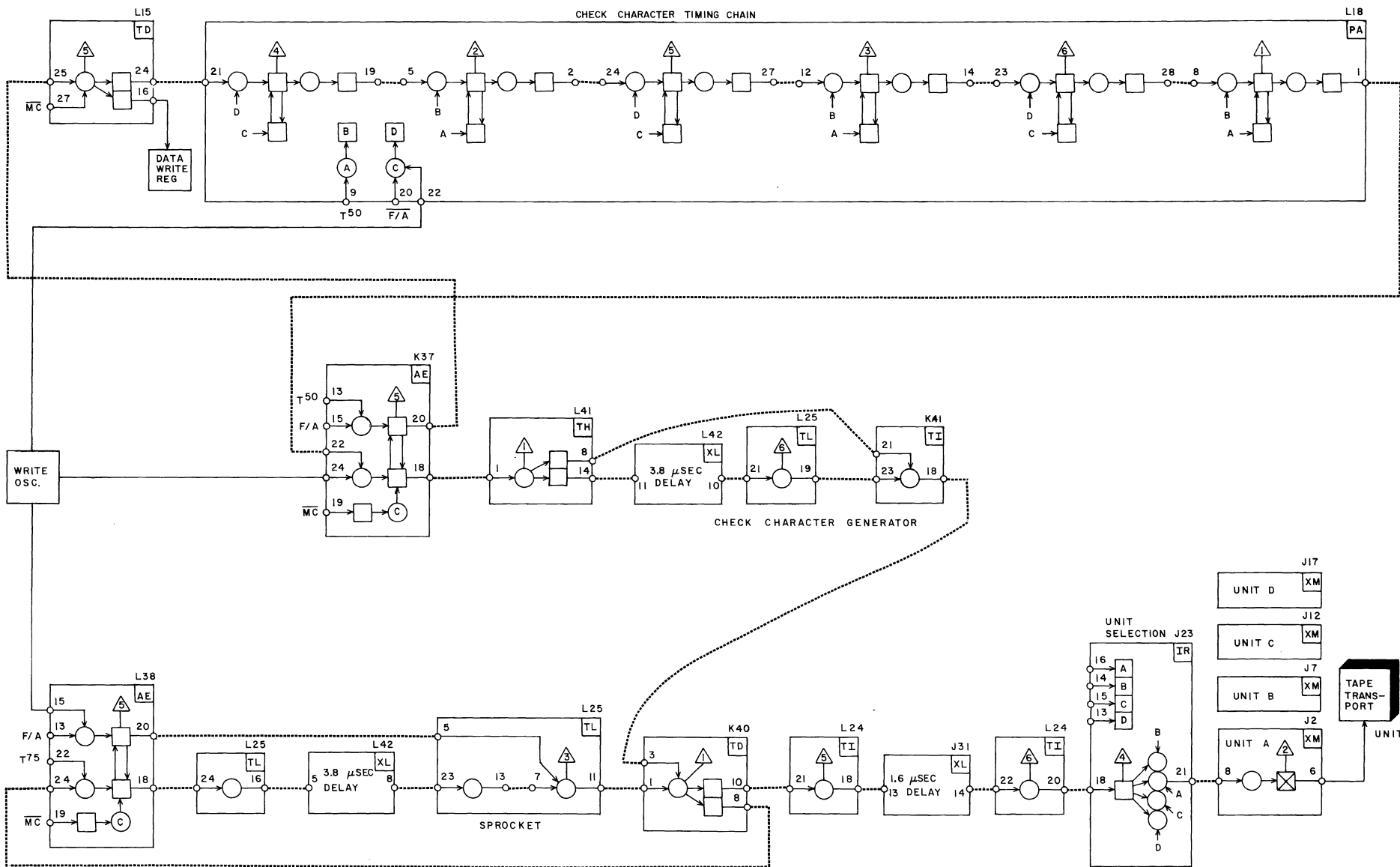


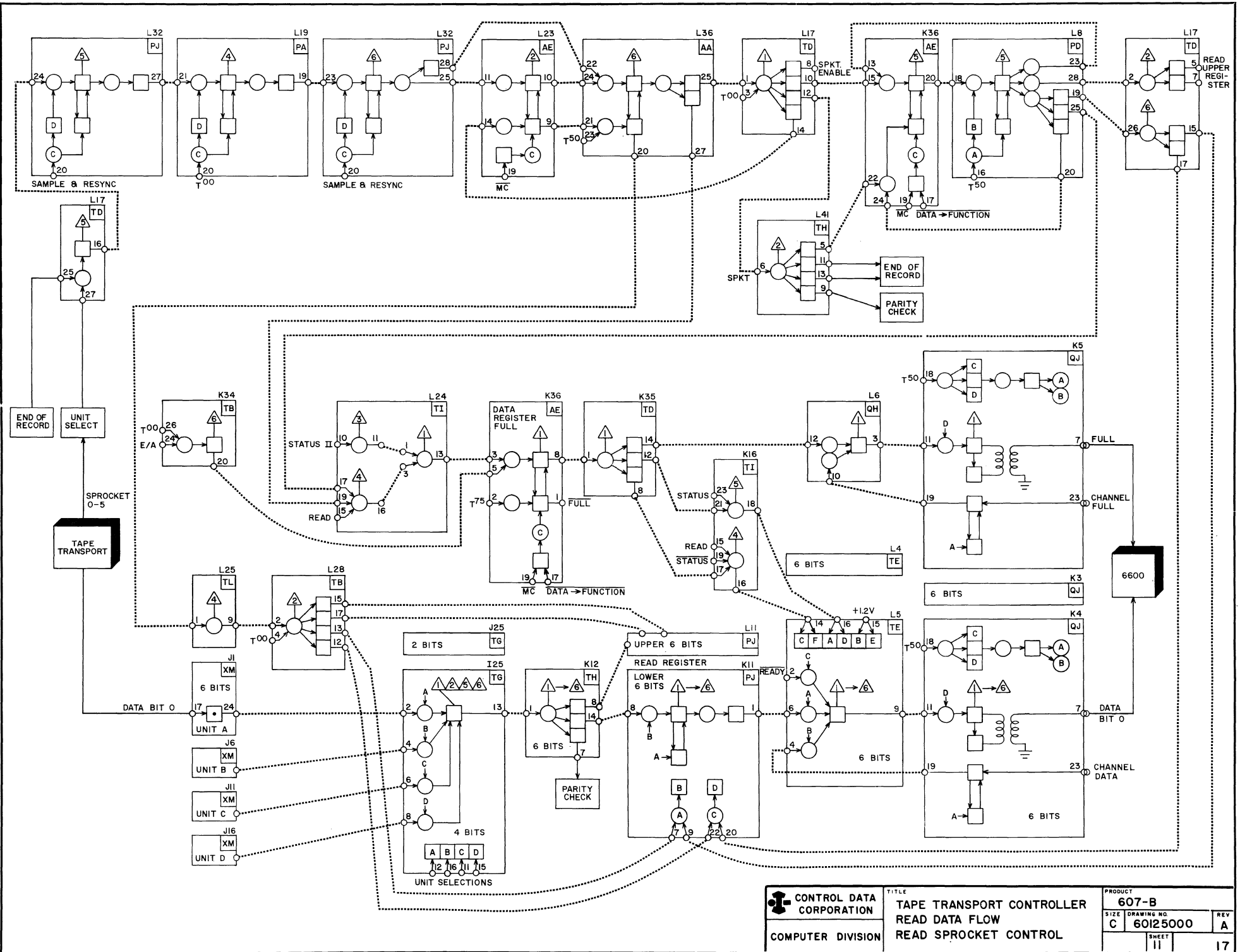
 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	TAPE TRANSPORT CONTROLLER MOTION CONTROL	
	PRODUCT	607-B	
	SIZE	DRAWING NO. C 60125000	REV
	SHEET	7	
		9	



 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE TAPE TRANSPORT CONTROLLER WRITE OSCILLATOR	PRODUCT 607-B	
	SIZE C	DRAWING NO. 60125000	REV B
	SHEET 6		11



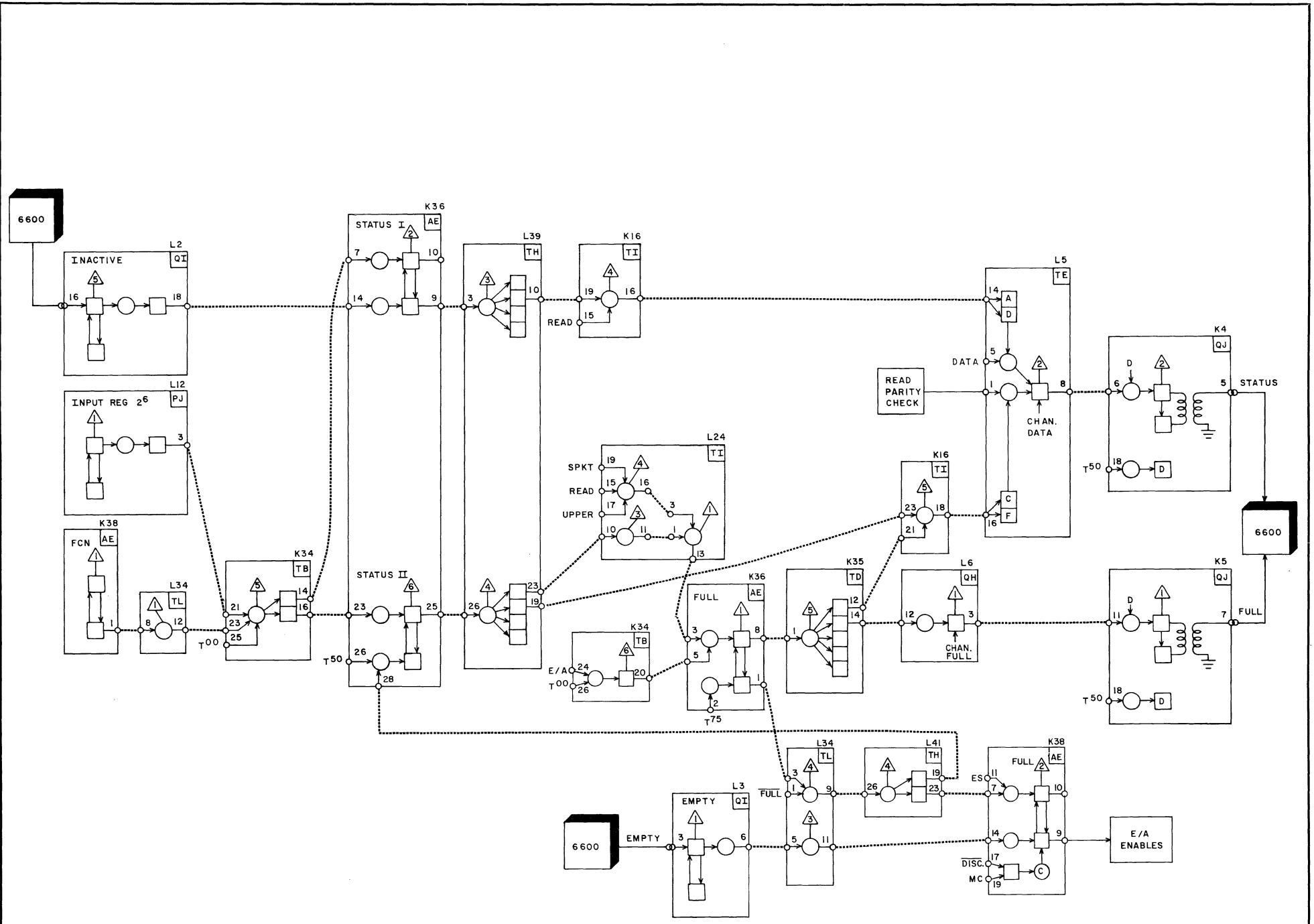





CONTROL DATA CORPORATION
 COMPUTER DIVISION

TITLE
**TAPE TRANSPORT CONTROLLER
 READ DATA FLOW
 READ SPROCKET CONTROL**

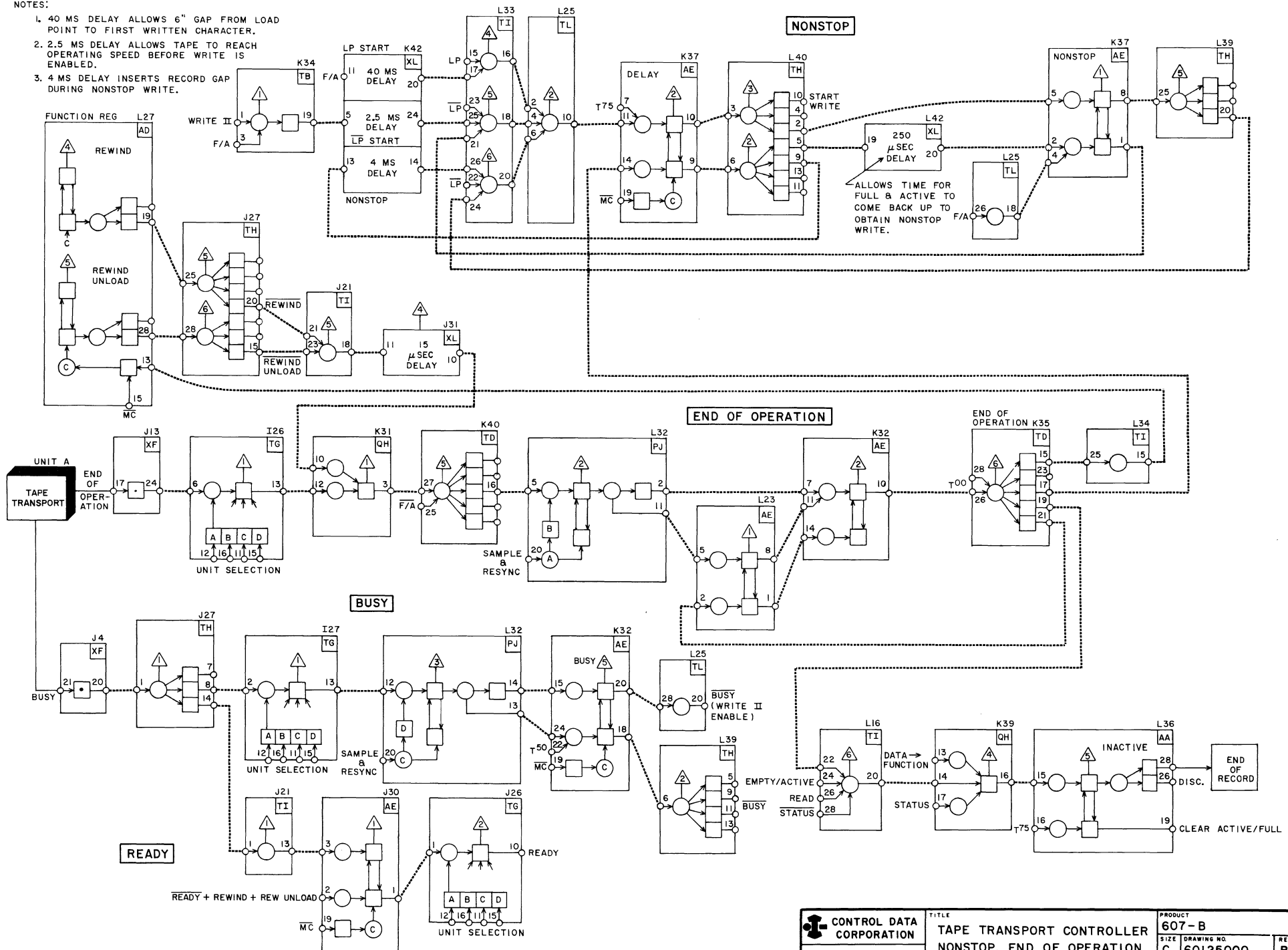
PRODUCT		607-B	
SIZE	DRAWING NO.	REV	
C	60125000	A	
SHEET		17	

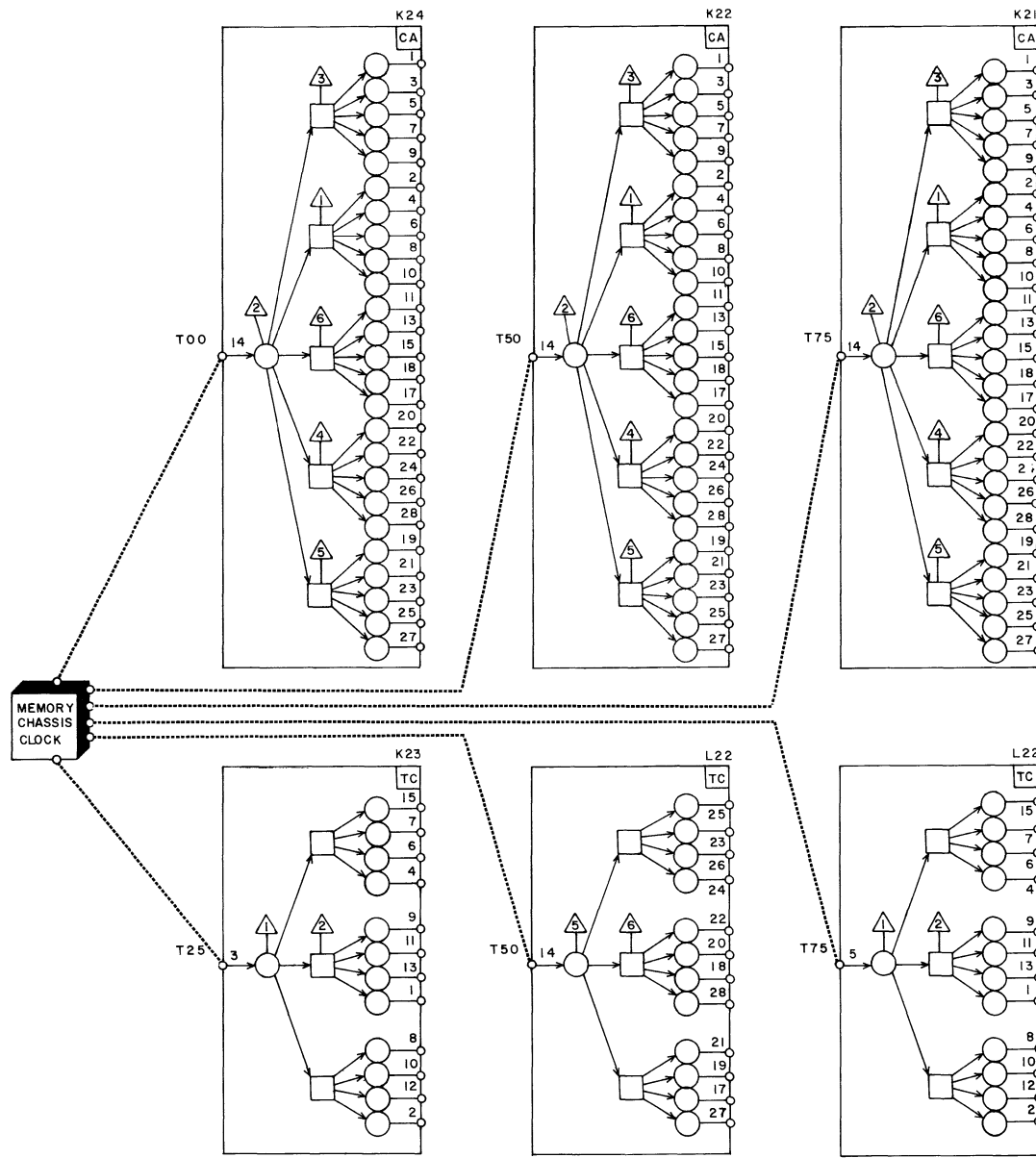


 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE	PRODUCT	REV
	TAPE TRANSPORT CONTROLLER	607 - B	B
	STATUS CIRCUITS	SIZE C 60125000	SHEET 13

NOTES:

1. 40 MS DELAY ALLOWS 6" GAP FROM LOAD POINT TO FIRST WRITTEN CHARACTER.
2. 2.5 MS DELAY ALLOWS TAPE TO REACH OPERATING SPEED BEFORE WRITE IS ENABLED.
3. 4 MS DELAY INSERTS RECORD GAP DURING NONSTOP WRITE.

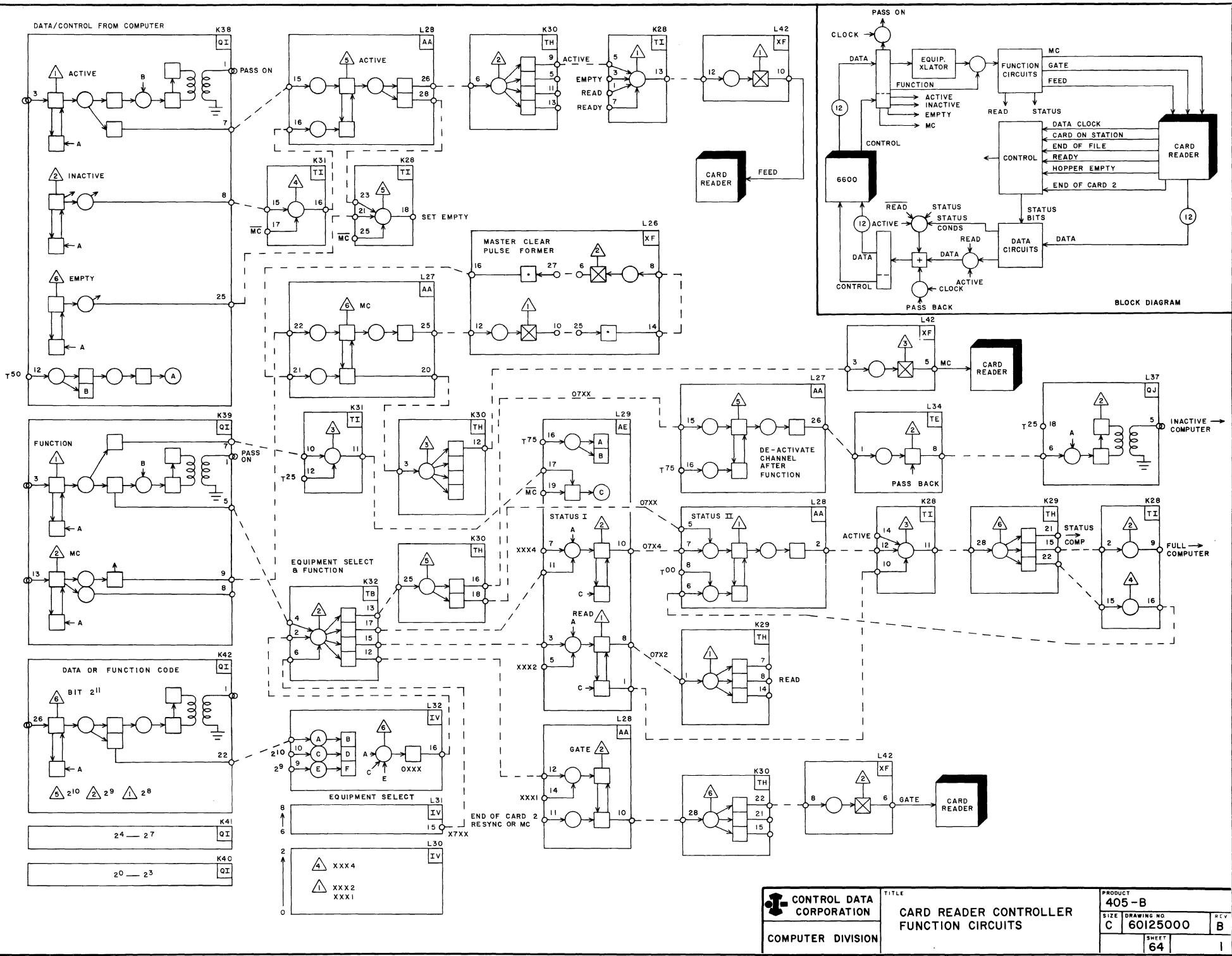




S.O. 60029 6000 SERIES 405 CARD READER CONTROLLER

CONTENTS

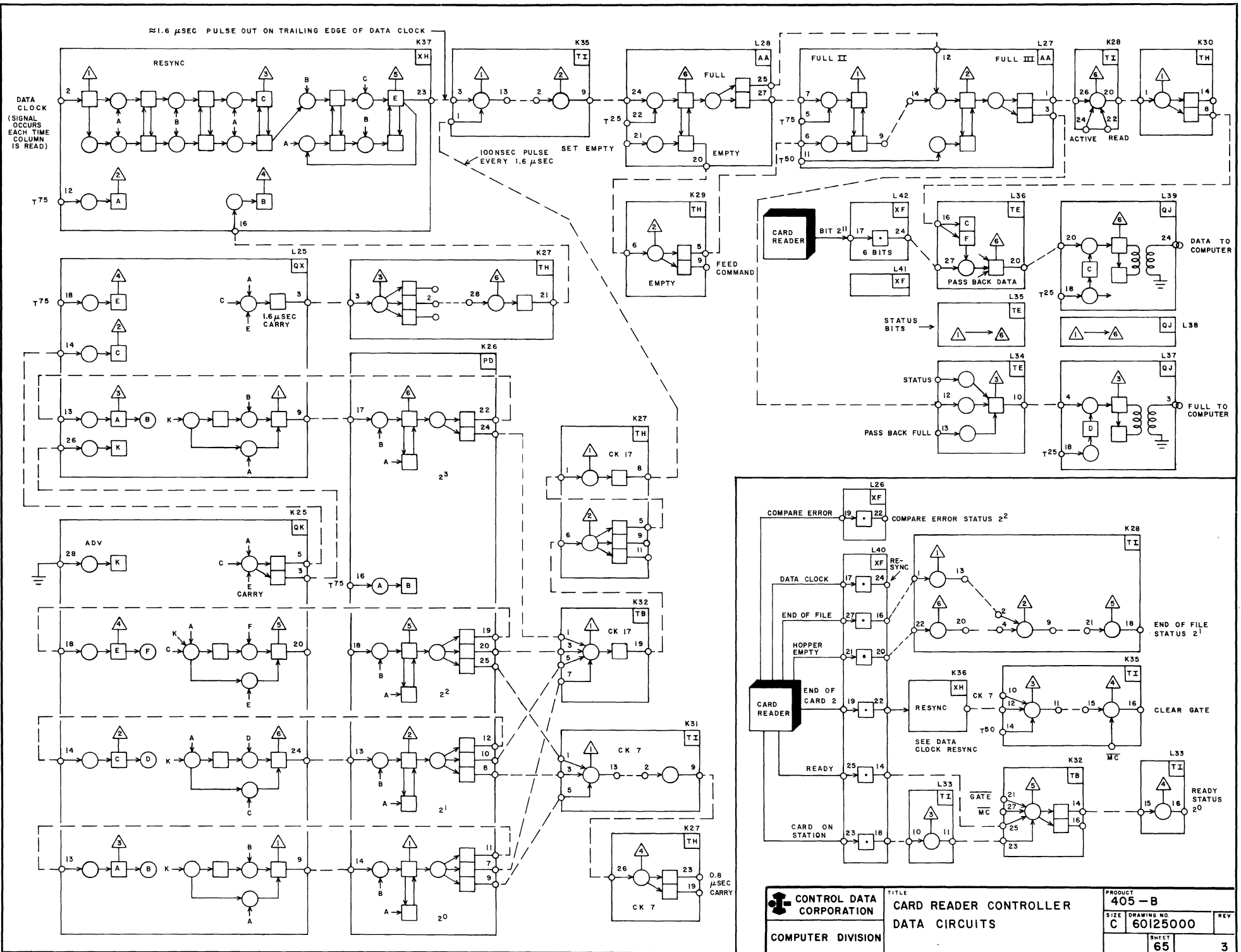
Page	Title
ii	405 Card Reader
1	Function Circuits
3	Data Circuits
5	Clock



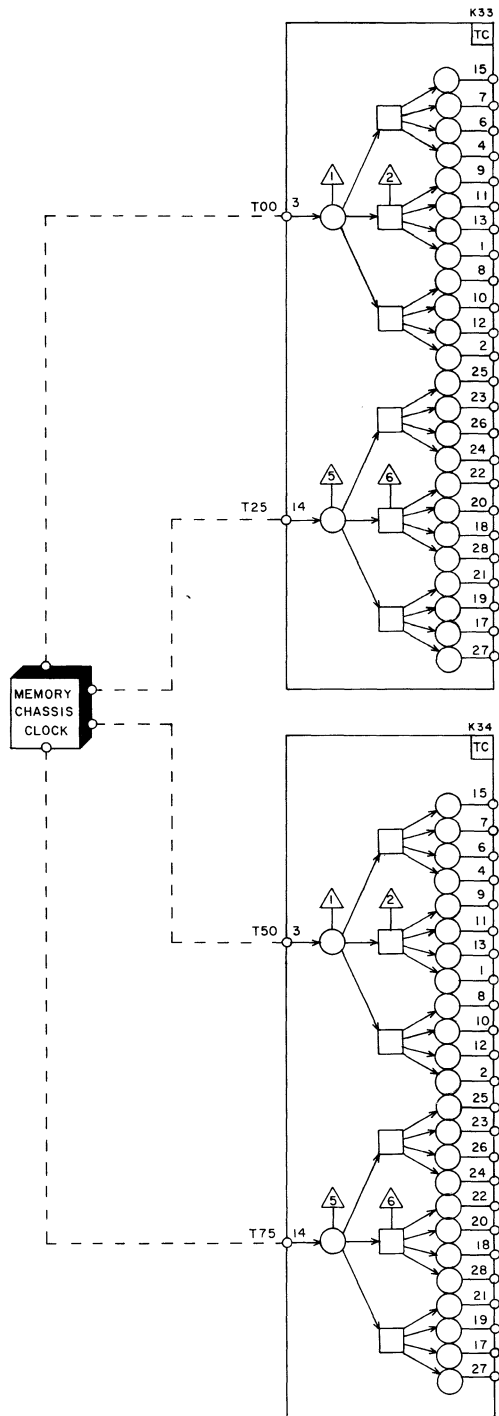

CONTROL DATA CORPORATION
 COMPUTER DIVISION


TITLE
**CARD READER CONTROLLER
 FUNCTION CIRCUITS**

PRODUCT	405-B
SIZE	C 60125000
DRAWING NO	B
SHEET	64



CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE CARD READER CONTROLLER DATA CIRCUITS	PRODUCT 405-B	
	SIZE C	DRAWING NO. 60125000	REV 3
	SHEET 65		



 CONTROL DATA CORPORATION COMPUTER DIVISION	TITLE CARD READER CONTROLLER CLOCK	PRODUCT 405-B	SIZE C	DRAWING NO. 60125000	REV.
			SHEET 66	REV. 5	

COMMENT SHEET
6600 PERIPHERAL CONTROLLERS
Customer Engineering Diagrams
Pub. No. 60125000

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