CONTENTS

DWG NO.	SHTS	REV		DESCRIPTION
MISCELLANEOUS DRAWINGS				
2770 6555	1	A	ER 63322	CIRCUIT LIST, MOTHERBOARD
2770 6522	7	B	ECN 63025	WIRING SCHEMATIC, SYSTEM
2770 4485	5	F	ECN 63025	WIRING SCHEMATIC, PWR SUPPLY (1MB) (SEE NOTE 1 - BELOW)
2770 4204	5	F	ECN 63025	WIRING SCHEMATIC, PWR SUPPLY (3/6 OR CART) (SEE NOTE 1 - BELOW)
2770 7116	3	A	ER 63433	INSTALLATION INSTRUCTIONS, FREE STANDING DISK HARNESS

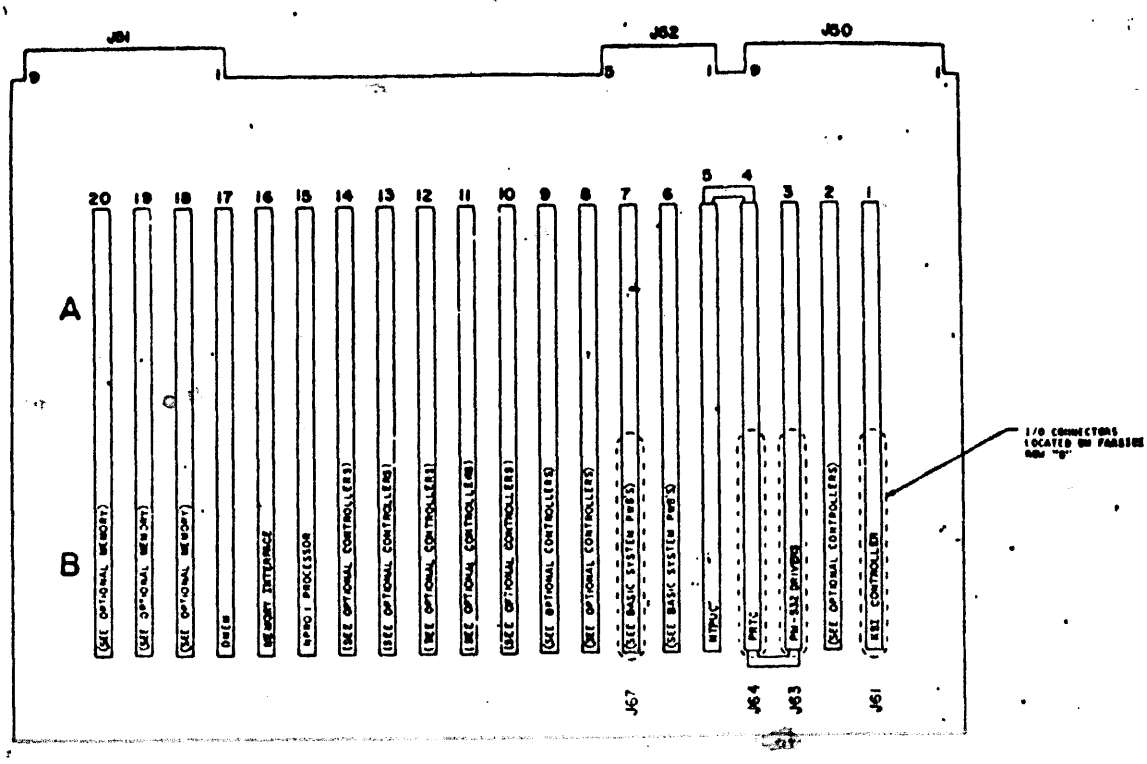
MFG NOTE (1): BRIDGE RECTIFIER ORIENTATION OF ECN 62775 TO BE INCORPORATED 3/81 IN MFG. -3/-12V REG 2770 3131 OF ECN 62920 SUPERCEDED BY 2770 6878 OR 2770 6852.

PCB ASSY & SCHEMATIC DWGS				
1251 1184	2	B		SCHEMATIC, TRANSDUCER AMPL
		B	W/EDA 62554	(PRINTER)
2768 0479	3	C	ECN 63241	SCHEMATIC, RS KEYBOARD (CAPS LOCK) (VI-10)
2769 3662	5	M	ECN 63371	SCHEMATIC, NTPUC
2769 3779	3	D	ECN 63241	SCHEMATIC, PRTC
2769 4033	2	C	ECN 62861	SCHEMATIC, -3V & -12V RGLTR
	2	C	W/EDA 63396	
	2	C	W/EDA 63495	
	2	C	2/EDA 63782	
2769 4066	1	B		SCHEMATIC, +5V RGLTR
2769 4116	3	B		SCHEMATIC, +12V RGLTR & CONTROLS
	3	C	RW ECN 62862	
2769 4959	3	F	ECN 63241	SCHEM, ADC CTLR
2769 5204	2	A		SCHEMATIC, BD20-10 PRINTER
2770 3321	1	A	ECN 63040	PWB ASSY,STD DISK CTLR A (3/6)
2770 3313	10	A	ECN 63040	SCHEM, STD DISK CTLR A (3/6)
2770 3354	1	A	ECN 63040	PWB ASSY,STD DISK CTLR B 3/6
2770 3347	9	A	ECN 63040	SCHEM, STD DISK CTLR B 3/6
2770 5342	4	C	ECN 63206	SCHEM, MEMORY INTERFACE
	1	C	W/EDA 63211	REF:2770 5383/5813 ASSY TYPE
2770 5391	4	C	ECN 63207	SCHEM, MEMORY INTERFACE
	1	C	W/EDA 63211 W/EDA 63212	REF:2770 5433/5821 ASSY TYPE

DWG NO.	SHT	REV		DESCRIPTION
2770 6589	5	A	ECN 63149	SCHEM, PM-532 DRIVER REF: 2770 6571 ASSY TYPE
2770 7314	5	A	ECN 63514	SCHEM, PM-532 DRIVER REF: 2770 7322 ASSY TYPE
2770 6811	5	A	RW ECN 63393	SCHEM, KSI CTLR REF: 2770 6795 ASSY TYPE
2770 6845	5	B	RW ECN 63792	SCHEM, KSI CTLR REF: 2770 6829 ASSY TYPE
2798 8278	3	C	ECN 62524	SCHEM, WLP CTLR
2798 8401	4	D	ECN 62683	SCHEM, CWM
2798 9011	3	A	EDA 62957	PWB ASSY, DISK 1 BSM
	1	A	W/EDA 62932	
2798 9029	4	A	EDA 62957	SCHEM, DISK 1 BSM
	2	A	W/EDA 62932	
2798 9037	3	A	EDA 62957	PWB ASSY, DISK 2 (BSM/CAELUS)
2798 9045	4	A	EDA 62957	SCHEM, DISK 2 (BSM/CAELUS)
				REF: DON'T MIX DISK 1 & 2 WITH DISK A & B BELOW IN A CONTROLLER SET.
2849 2122	2	F	ECN 09041	PWB ASSY, TOD (PARTS LIST)
	1	B	ECN 08321	PWB ASSY, TOD (INFO DWG)
2849 2205	15	D	ECN 08665	SCHEM, TOD
2849 7071	2	E	ECN 09041	PWB ASSY, ICD1 (PARTS LIST)
	1	A		PWB ASSY, ICD1 (INFO DWG)
2849 7121	6	A		SCHEM, ICD 1
2851 8231	1	E	ECN 09281	PWB ASSY, INFO DWG-DMEM (128KB)
2851 8298	26	D	ECN 09239	SCHEM, DMEM
2853 8973	1	C	W/EDA 03284 W/EDA 032848 W/EDA 63345	PWB ASSY, NPRO 1 PROC (2MHZ)
2851 9098	5	B	ECN 02723	SCHEM, NPRO 1 PROC (2MHZ)
	3	B	W/EDA 63345	REF: PWB 28519056-B ASSY TYPE
2854 4708	3	~~B~~ E	~~ECN 9864~~ ECN 10142	PWB ASSY, NPRO-1A (2 MHZ)
2854 4716	9	D	ECN 9864	SCHEM, NPRO-1A (2 MHZ) REF: PWB 28542249-A ASSY TYPE
2854 9749	2	A	ECN 09701	PWB ASSY, ICD 2
2854 9764	7	A	ECN 09701	SCHEM, ICD 2
3180 3208	1-6	A	ER 02879	PWB SPEC, SDCX
3180 4347	1-5	E	ECN 03195	PWB SPEC, CTDI
3180 6870	2	A	ER 03450	PWB ASSY, ADC CTLR
3180 6888	3	A	ER 03450	SCHEM, ADC CTLR
3181 1375	6	A	ECN 4071	SCHEM, SDCY
3181 1367	1	A	ECN 4071	ASSY DWG, SDCY
3181 2563	2	A	EDA 63786	PWB ASSY, DISK A (BSM/CAELUS)
3181 2571	7	A	EDA 63786	SCHEM, DISK A (BSM/CAELUS)
3181 1896	1	A	ECN 4190	PWB ASSY, DISK B (BSM/CAELUS)
3181 1904	7	A	ECN 4190	SCHEM, DISK B (BSM/CAELUS)
				REF: DON'T MIX DISK A & B WITH DISK 1 & 2 ABOVE IN A CONTROLLER SET.

Burroughs Corporation	TITLE: B91 DOCUMENTATION PACKAGE SYSTEM:	DWG. NO. 2770 6498
SYSTEMS M & E GROUP PLYMOUTH PLANT PLYMOUTH, MICHIGAN 48170 U. S. AMERICA	DRAWN: T. TRAKAS CHECKED: APPROVED: tct RELEASED: ER 63322 REVISION: G PAGE: 1 OF 3	

B91_ PWB LOCATOR



VIEWED FROM DAUGHTER BOARD SIDE OF MOTHERBOARD

CARD LOCATION	PWB NAME	SCHEMATIC	INTERIM ASSY	FINAL ASSY	*F/P CONN
1	KSI CONTROLLER	2770 6845	2770 6837	2770 6829 (PL)	
2	OPTIONAL CONTRLR (SEE CHART)				
3	PM-532 DRIVER	2770 7314	-	2770 7322	
4	PRTC	2769 3779	-	2769 3787	
5	NTPUC VERSION 1-10, 13-16	2769 3662	2769 3670	2769 3688 (PL)	
5	12	"	"	2770 6720 (PL)	
5	17	"	"	2770 2877 (PL)	
5	20 & 23	"	"	2769 4926 (PL)	
5	21	"	"	2770 2885 (PL)	
5	22	"	"	2770 2893 (PL)	
6	DISK A (1 MB OR CART SYS DSK)	3181 2571	-	3181 2563	> ROW 'B'
7	DISK B (1 MB OR CART SYS DSK)	3181 1904	-	3181 1896	>
6	STD DISK HOST CTLR B (3/6 SYS DSK)	2770 3347	-	2770 3354	> ROW 'B'
7	STD DISK HOST CTLR A (3/6 SYS DSK)	2770 3313	-	2770 3321	>
8-14	OPTIONAL CONTROLLER (SEE CHART)				
15	NPRO-1A PROCESSOR (2MHZ)	2854 4716	-	2854 4708	
16	MEMORY INTERFACE (2MHZ - 3/6 SYS)	2770 5391	2770 5409	2770 5821 (PL)	
16	(2MHZ - 1MB OR CART SYS	"	"	2770 5433 (PL)	
17	DMEM 2 (2MHZ - 128KB)	2851 8298	-	2851 9809 (PL)	
18-20	DMEM 2 (2MHZ - 128KB) (OPTIONAL)	"	-	"	

NOTES:

1. FOR SELECTION OF OPTIONAL CONTROLLERS, SEE B91E SYSTEM CONFIGURATOR 2770 6415.
2. WHEN TWO PWB'S MAKE UP A PERIPERAL CONTROLLER, THEY MUST BE ADJACENT TO EACH OTHER.
3. AS EACH OPTIONAL MEMORY BOARD IS ADDED, IT MUST BE ADJACENT TO AN EXISTING MEMORY BOARD.
4. BSMI - CONTROLLER FOR 1MB, CART OR 201I DISK PERIPHERALS.
5. BSMII- CONTROLLER FOR 3/6 OR 211 DISK PERIPHERALS.
6. FOR FIRST CTDI CONTROLLER CONNEXT MTR JUMPER 3180 3646 FROM PWB SLOT 16 PIN B09 (MEM INTFC) TO PIN A36 ON CTDI CONTROLLER PWB (PWB SLOT 8 OR 12). FOR AN ADDITIONAL CTDI CONTROLLER CONNECT ANOTHER FUMPER 3180 3646 FROM PIN A35 ON EXISTIONG CTDI TO PIN A36 ON NEW CTDI PWB.

ABBREVIATIONS:

1MB = INBUILT 1MB DISK
3/6 = INBUILT 3/6 DISK
ADC = ASYNCHRONOUS DATA COMM
CART = CARTRIDGE DISK
CRT = CATHODE RAY TUBE
CTDI = CONCATENATED TWO-WIRE DIRECT INTERFACE
CWM = CONCATENATED WRAP-AROUND MONITOR
ICMD = INDUSTRY COMPATIBLE MINIDISK
TOD = TIME OF DAY CLOCK
WLP = WIDE LINE PRINTER

Burroughs Corporation	TITLE: B91 DOCUMENTATION PACKAGE	DWG. NO.
	SYSTEM:	
SYSTEMS M & E GROUP PLYMOUTH PLANT	DRAWN: T. TRAKAS CHECKED:	2770 6498
PLYMOUTH, MICHIGAN 48170 U. S. AMERICA	APPROVED: tct RELEASED: ER 63322	
	REVISION: G PAGE: 2 OF 3	

CONTROLLER	CARD LOCATION (SEE NOTE 1)	PWB NAME	I/O CONN LOCATION	SCHEMATIC	INTERIM ASSY	FINAL ASSY	F/P CONN
CRT	! 2!10! ! !	CRT HOST CTLR.....	ROW B	.....SEE CRT DOCUMENTATION PACKAGE.....			
WLP	!9 !10!14! !	WLP CTLR.....	ROW B	2798 8278	2798 8252	2798 8245PL	
ADCC,153.6KHZ	! 8!12! ! !	ADCC, 153.6KHZ.....	-	2769 4959	2769 4942	2769 4975PL	> ROW B
	! 9!13! ! !	CWM.....	ROW B	2798 8401	-	2798 8393	>
ADCC,57.6KHZ	! 2!13! ! !	ADCC, 57.6KHZ.....	-	2769 4959	2769 4942	2769 4967PL	> ROW B
	! 8!12! ! !	CWM.....	ROW B	2798 8401	-	2798 8393	>
CTDI	! 9!13! ! !	ADCC,153.6KHZ.....	-	2769 4959	2769 4942	2769 4975PL	> ROW B
	! 8!12! ! !	CTDI (SEE NOTE 6).....	ROW B	3180 4347	-	3180 4321	>
FADCX, 1.2288MHZ	! 9!13! ! !	FADCX	-	3180 6888	-	3180 6870	> ROW B
	! 8!12! ! !	CTDI (SEE NOTE 6).....	ROW B	3180 4347	-	3180 4321	>
CMS SYNC BI-SYNC	! !14! ! !	SDCX.....	-	3180 3208	-	3180 3778PL	>ROW A
	! !13! ! !	SDCY.....	-	3181 1375	-	3181 1367PL	> >
	! !12! ! !	CWM.....	ROW B	2798 8401	-	2798 8393	>ROW B
TOD	! 2! 9!10!14!	TOD CTLR	-	2849 2205	-	2849 2122PL	
ICMD	! 8!11! ! !	ICD1.....	-	2849 7121	-	2849 7071	> ROW A
	! 9!10! ! !	ICD2.....	ROW B	2854 9764	-	2854 9749	>
85MI OR 201I DSK	! 9!10! ! !	DISK A	-	3181 2571	-	3181 2563	> ROW B
	! 8!11! ! !	DISK B	ROW B	3181 1904	-	3181 1896	>
3/6MB OR 211 DSK	! 8!11! ! !	STD DISK CTLR A	ROW B	2770 3313	-	2770 3321	> ROW B
	! 9!10! ! !	STD DISK CTLR B.....	-	2770 3347	-	2770 3354	>

Burroughs Corporation	TITLE: B91 DOCUMENTATION PACKAGE		DWG. NO.
	SYSTEM:		
SYSTEMS M & E GROUP PLYMOUTH PLANT	DRAWN: T. TRAKAS	CHECKED:	2770 6498
PLYMOUTH, MICHIGAN 48170 U. S. AMERICA	APPROVED: tct	RELEASED: ER 63322	
	REVISION: G	PAGE: 3 OF 3	

ACLK/...	*16B53	17B53	18B53	19B53	20B53						
ADDR0...	01A36	01A24	02A24	03A24	04A24	05A24	06A24	07A24	08A24	09A24	
ADDR0...	10A24	11A24	12A24	13A24	14A24	*15A22	16A22				
ADDR1...	05A36	05A26	06A26	07A26	08A26	09A26	10A26	11A26	12A26	13A26	
ADDR1...	14A26	*15A24	16A24								
ADDR2...	06A36	06A28	07A28	08A28	09A28	10A28	11A28	12A28	13A28	14A28	
ADDR2...	*15A26	16A26									
ADDR3...	09A36	09A30	10A30	11A30	12A30	13A30	14A30	*15A28	16A28		
ADDR4...	10A36	10A32	11A32	12A32	13A32	14A32	*15A30	16A30			
ADDR5...	13A36	13A34	14A34	*15A32	16A32						
ADDR6...	14A36	*15A34	16A34								
ADDR7...	02A36	*15A36	16A36								
CAS/....	*16B56	17B56	18B56	19B56	20B56						
CLKP ...	15B06	*16B06									
CONT/...	01A40	02A40	03A40	04A40	05A40	06A40	07A40	08A40	09A40	10A40	
CONT/...	11A40	12A40	13A40	14A40	*15A40						
DIR/....	01A38	02A38	03A38	04A38	05A38	06A38	07A38	08A38	09A38	10A38	
DIR/....	11A38	12A38	13A38	14A38	*15A38						
ERR,....	15B13	*16B13									
FRZ/....	01A41	02A41	03A41	04A41	*05A41	06A41	07A41	08A41	09A41	10A41	
FRZ/....	11A41	12A41	13A41	14A41	15A41	*16A41					
FRZ2/...	15B12	16B12									
GNDMB...	*J50-4	*J50-5	*J50-6	*J51-2	*J51-3	*J51-4	01A01	01A03	01A43	01A49	
GNDMB...	01A52	01A55	01A59	01B01	01B57	01B59	02A01	02A03	02A43	02A49	
GNDMB...	02A52	02A55	02A59	02B01	02B57	02B59	03A01	03A03	03A43	03A49	
GNDMB...	03A52	03A55	03A59	03B01	03B57	03B59	04A01	04A03	04A43	04A49	
GNDMB...	04A52	04A55	04A59	04B01	04B57	04B59	05A01	05A03	05A43	05A49	
GNDMB...	05A52	05A55	05A59	05B01	05B57	05B59	06A01	06A03	06A43	06A49	
GNDMB...	06A52	06A55	06A59	06B01	06B57	06B59	07A01	07A03	07A43	07A49	
GNDMB...	07A52	07A55	07A59	07B01	07B57	07B59	08A01	08A03	08A43	08A49	
GNDMB...	08A52	08A55	08A59	08B01	08B57	08B59	09A01	09A03	09A43	09A49	
GNDMB...	09A52	09A55	09A59	09B01	09B57	09B59	10A01	10A03	10A43	10A49	
GNDMB...	10A52	10A55	10A59	10B01	10B57	10B59	11A01	11A03	11A43	11A49	
GNDMB...	11A52	11A55	11A59	11B01	11B57	11B59	12A01	12A03	12A43	12A49	
GNDMB...	12A52	12A55	12A59	12B01	12B57	12B59	13A01	13A03	13A43	13A49	
GNDMB...	13A52	13A55	13A59	13B01	13B57	13B59	14A01	14A03	14A43	14A49	
GNDMB...	14A52	14A55	14A59	14B01	14B57	14B59	15A01	15A03	15A43	15A49	
GNDMB...	15A52	15A55	15A59	15B01	15B57	15B59	16A01	16A03	16A49	16A52	
GNDMB...	16A55	16A59	16B01	16B52	16B54	16B57	16B59	17A01	17A03	17A59	
GNDMB...	17B01	17B50	17B52	17B54	17B57	17B59	18A01	18A03	18A59	18B01	
GNDMB...	18B43	18B50	18B52	18B54	18B57	18B59	19A01	19A03	19A59	19B01	
GNDMB...	19B44	19B50	19B52	19B54	19B57	19B59	20A01	20A03	20A59	20B01	
GNDMB...	20B43	20B44	20B50	20B52	20B54	20B57	20B59				
INIT....	01A44	02A44	03A44	04A44	05A44	06A44	07A44	08A44	09A44	10A44	
INIT....	11A44	12A44	13A44	14A44	*15A44						
IOX.....	01A39	02A39	03A39	04A39	05A39	06A39	07A39	08A39	09A39	10A39	
IOX.....	11A39	12A39	13A39	14A39	*15A39						
IO2MHZ/.	01A42	02A42	03A42	04A42	05A42	06A42	07A42	08A42	09A42	10A42	
IO2MHZ/.	11A42	12A42	13A42	14A42	15A42	16A42					
JOX.....	01A37	02A37	03A37	04A37	05A37	06A37	07A37	08A37	09A37	10A37	
JOX.....	11A37	12A37	13A37	14A37	*15A37						
MA0/....	*15B23	16B23	17B23	18B23	19B23	20B23					
MA1/....	*15B24	16B24	17B24	18B24	19B24	20B24					
MA2/....	*15B25	16B25	17B25	18B25	19B25	20B25					
MA3/....	*15B26	16B26	17B26	18B26	19B26	20B26					
MA4/....	*15B27	16B27	17B27	18B27	19B27	20B27					
MA5/....	*15B28	16B28	17B28	18B28	19B28	20B28					
MA6/....	*15B29	16B29	17B29	18B29	19B29	20B29					
MA7/....	*15B30	16B30	17B30	18B30	19B30	20B30					
MA8/....	*15B31	16B31	17B31	18B31	19B31	20B31					
MA9/....	*15B32	16B32	17B32	18B32	19B32	20B32					
MA10/...	*15B33	16B33	17B33	18B33	19B33	20B33					
MA11/...	*15B34	16B34	17B34	18B34	19B34	20B34					
MA12/...	*15B35	16B35	17B35	18B35	19B35	20B35					
MA13/...	*15B36	16B36	17B36	18B36	19B36	20B36					
MA14/...	*15B37	16B37	17B37	18B37	19B37	20B37					
MA15/...	*15B38	16B38	17B38	18B38	19B38	20B38					
MRD0....	15B15	*16B15									
MRD1....	15B16	*16B16									
MRD2....	15B17	*16B17									
MRD3....	15B18	*16B18									
MRD4....	15B19	*16B19									
MRD5....	15B20	*16B20									
MRD6....	15B21	*16B21									
MRD7....	15B22	*16B22									
MREQ....	*15B45	16B45									
MTRSEL..	*J51-9	16B09	17B09	18B09	19B09	20B09					
OENB....	16B07	17B07	18B07	19B07	20B07						
OVR.....	15B14	*16B14									
PH1IH/..	01A53	02A53	03A53	04A53	05A53	06A53	07A53	08A53	09A53	10A53	
PH1IH/..	11A53	12A53	13A53	14A53	15A53	*16A53					
PH1HP/..	01A56	02A56	03A56	04A56	05A56	06A56	07A56	08A56	09A56	10A56	
PH1HP/..	11A56	12A56	13A56	14A56							
PH1HP/.	15A56	*16A56									
PH1IL/..	01A50	02A50	03A50	04A50	05A50	06A50	07A50	08A50	09A50	10A50	
PH1IL/..	11A50	12A50	13A50	14A50	15A50	*16A50					
PH12DHP/	15B08	*16B08									
PH12H/..	01A54	02A54	03A54	04A54	05A54	06A54	07A54	08A54	09A54	10A54	
PH12H/..	11A54	12A54	13A54	14A54	15A54	*16A54					
PH2HP/..	01A57	02A57	03A57	04A57	05A57	06A57	07A57	08A57	09A57	10A57	
PH2HP/..	11A57	12A57	13A57	14A57							
PH12HP/.	15A57	*16A57									
PH12L/..	01A51	02A51	03A51	04A51	05A51	06A51	07A51	08A51	09A51	10A51	
PH12L/..	11A51	12A51	13A51	14A51	15A51	*16A51					

PRD0....	*01A06	02A06	03A06	04A06	*05A06	06A06	*07A06	08A06	09A06	#10A06	
PRD0....	#11A06	#12A06	#13A06	#14A06	15A06						
PRD1....	*01A08	02A08	03A08	04A08	*05A08	06A08	*07A08	08A08	09A08	#10A08	
PRD1....	#11A08	#12A08	#13A08	#14A08	15A08						
PRD2....	*01A10	02A10	03A10	04A10	*05A10	06A10	*07A10	08A10	09A10	#10A10	
PRD2....	#11A10	#12A10	#13A10	#14A10	15A10						
PRD3....	*01A12	02A12	03A12	04A12	*05A12	06A12	*07A12	08A12	09A12	#10A12	
PRD3....	#11A12	#12A12	#13A12	#14A12	15A12						
PRD4....	*01A14	02A14	03A14	04A14	*05A14	06A14	*07A14	08A14	09A14	#10A14	
PRD4....	#11A14	#12A14	#13A14	#14A14	15A14						
PRD5....	*01A16	02A16	03A16	04A16	*05A16	06A16	*07A16	08A16	09A16	#10A16	
PRD5....	#11A16	#12A16	#13A16	#14A16	15A16						
PRD6....	*01A18	02A18	03A18	04A18	*05A18	06A18	*07A18	08A18	09A18	#10A18	
PRD6....	#11A18	#12A18	#13A18	#14A18	15A18						
PRD7....	*01A20	02A20	03A20	04A20	*05A20	06A20	*07A20	08A20	09A20	#10A20	
PRD7....	#11A20	#12A20	#13A20	#14A20	15A20						
PROC2MHZ	15B43	*16B43									
PTRF....	*01B03	02B03	03B03	04B03	05B03	06B03	07B03	08B03	09B03	10B03	
PTRF....	11B03	12B03	13B03	14B03							
RAMCLK..	01A48	02A48	03A48	04A48	05A48	06A48	07A48	08A48	09A48	10A48	
RAMCLK..	11A48	12A48	13A48	14A48	15A48	*16A48					
RAS/....	*16B55	17B55	18B55	19B55	20B55						
RD0.....	16A23	*17A23	#18A23	#19A23	#20A23						
RD1.....	16A25	*17A25	#18A25	#19A25	#20A25						
RD2.....	16A27	*17A27	#18A27	#19A27	#20A27						
RD3.....	16A29	*17A29	#18A29	#19A29	#20A29						
RD4.....	16A31	*17A31	#18A31	#19A31	#20A31						
RD5.....	16A33	*17A33	#18A33	#19A33	#20A33						
RD6.....	16A35	*17A35	#18A35	#19A35	#20A35						
RD7.....	16A37	*17A37	#18A37	#19A37	#20A37						
RD8.....	16A39	*17A39	#18A39	#19A39	#20A39						
REF.....	*16B47	17B47	18B47	19B47	20B47						
REQ0/...	*01A35	02A23	03A23	04A23	05A23	06A23	07A23	08A23	09A23	10A23	
REQ0/...	11A23	12A23	13A23	14A23	15A23						
REQ1/...	*05A35	06A25	07A25	08A25	09A25	10A25	11A25	12A25	13A25	14A25	
REQ1/...	15A23										
REQ2/...	*06A35	07A27	08A27	09A27	10A27	11A27	12A27	13A27	14A27	15A25	
REQ3/...	*09A35	10A29	11A29	12A29	13A29	14A29	15A27				
REQ4/...	*10A35	11A31	12A31	13A31	14A31	15A29					
REQ5/...	*13A35	14A33	15A31								
REQ6/...	*14A35	15A33									
REQ7/...	*02A35	15A35									
RST/....	*J51-8	15B10	16B10	17B10	18B10	19B10	20B10				
UST.....	*15B11	16B11									
WCLK/...	*16B51	17B51	18B51	19B51	20B51						
WEN/....	*16B49	17B49	18B49	19B49	20B49						
WRT/....	*15B50	16B50									
WT0.....	01A05	02A05	03A05	04A05	05A05	06A05	07A05	08A05	09A05	10A05	
WT0.....	11A05	12A05	13A05	14A05	*15A05	16A05	17A05	18A05	19A05	20A05	
WT1.....	01A07	02A07	03A07	04A07	05A07	06A07	07A07	08A07	09A07	10A07	
WT1.....	11A07	12A07	13A07	14A07	*15A07	16A07	17A07	18A07	19A07	20A07	
WT2.....	01A09	02A09	03A09	04A09	05A09	06A09	07A09	08A09	09A09	10A09	
WT2.....	11A09	12A09	13A09	14A09	*15A09	16A09	17A09	18A09	19A09	20A09	
WT3.....	01A11	02A11	03A11	04A11	05A11	06A11	07A11	08A11	09A11	10A11	
WT3.....	11A11	12A11	13A11	14A11	*15A11	16A11	17A11	18A11	19A11	20A11	
WT4.....	01A13	02A13	03A13	04A13	05A13	06A13	07A13	08A13	09A13	10A13	
WT4.....	11A13	12A13	13A13	14A13	*15A13	16A13	17A13	18A13	19A13	20A13	
WT5.....	01A15	02A15	03A15	04A15	05A15	06A15	07A15	08A15	09A15	10A15	
WT5.....	11A15	12A15	13A15	14A15	*15A15	16A15	17A15	18A15	19A15	20A15	
WT6.....	01A17	02A17	03A17	04A17	05A17	06A17	07A17	08A17	09A17	10A17	
WT6.....	11A17	12A17	13A17	14A17	*15A17	16A17	17A17	18A17	19A17	20A17	
WT7.....	01A19	02A19	03A19	04A19	05A19	06A19	07A19	08A19	09A19	10A19	
WT7.....	11A19	12A19	13A19	14A19	*15A19	16A19	17A19	18A19	19A19	20A19	
WT8.....	*16A21	17A21	18A21	19A21	20A21						
XMA0/...	*15B39	16B39	17B39	18B39	19B39	20B39					
XMA1/...	*15B40	16B40	17B40	18B40	19B40	20B40					
XMA2/...	*15B41	16B41	17B41	18B41	19B41	20B41					
XMA3/...	*15B42	16B42	17B42	18B42	19B42	20B42					
16KHZ/..	01A47	02A47	03A47	04A47	05A47	06A47	07A47	08A47	09A47	10A47	
16KHZ/..	11A47	12A47	13A47	14A47	15A47	*16A47					
-3MB....	*J50-3	01A45	01A46	02A45	02A46	03A45	03A46	04A45	04A46	05A45	
-3MB....	05A46	06A45	06A46	07A45	07A46	08A45	08A46	09A45	09A46	10A45	
-3MB....	10A46	11A45	11A46	12A45	12A46	13A45	13A46	14A45	14A46	15A45	
-3MB....	15A46										
-5VS....	J51-7	16B05	*17B05	#18B05	#19B05	#20B05					
-12MB...	*J51-1	J52-5	01B02	01B04	02B02	02B04	03B02	03B04	04B02	04B04	
-12MB...	05B02	05B04	06B02	06B04	07B02	07B04	08B02	08B04	09B02	09B04	
-12MB...	10B02	10B04	11B02	11B04	12B02	12B04	13B02	13B04	14B02	14B04	
-12MB...	15B02	15B04	16B02	16B04	17B02	17B04	18B02	18B04	19B02	19B04	
-12MB...	20B02	20B04									
+5MB1...	*J50-1	*J50-2	J52-2	J52-3	01A02	01A04	01B58	01B60	02A02	02A04	
+5MB1...	02B58	02B60	03A02	03A04	03B58	03B60	04A02	04A04	04B58	04B60	
+5MB1...	05A02	05A04	05B58	05B60							
+5MB2...	*J50-8	*J50-9	*J51-5	*J51-6	06A02	06A04	06B58	06B60	07A02	07A04	
+5MB2...	07B58	07B60	08A02	08A04	08B58	08B60	09A02	09A04	09B58	09B60	
+5MB2...	10A02	10A04	10B58	10B60	11A02	11A04	11B58	11B60	12A02	12A04	
+5MB2...	12B58	12B60	13A02	13A04	13B58	13B60	14A02	14A04	14B58	14B60	
+5MB2...	15A02	15A04	15B58	15B60	16A02	16A04	16B58	16B60	17A02	17A04	
+5MB2...	17B58	17B60	18A02	18A04	18B58	18B60	19A02	19A04	19B58	19B60	
+5MB2...	20A02	20A04	20B58	20B60							
+12MB...	*J50-7	J52-1	01A58	01A60	02A58	02A60	03A58	03A60	04A58	04A60	
+12MB...	05A58	05A60	06A58	06A60	07A58	07A60	08A58	08A60	09A58	09A60	
+12MB...	10A58	10A60	11A58	11A60	12A58	12A60	13A58	13A60	14A58	14A60	
+12MB...	15A58	15A60	16A58	16A60	17A58	17A60	18A58	18A60	19A58	19A60	
+12MB...	20A58	20A60									

NOTES:

1. FOR ASSEMBLY SEE SPLIT PIN 2770 6506 REV A
   SOLID PIN 2770 6548 REV A
2. AN ASTERISK (*) PRECEDING A NUMBER INDICATES SIGNAL SOURCE.
3. A POUND SIGN (#) PRECEDING A NUMBER INDICATES POSSIBLE SIGNAL SOURCE.

PAGE 1 OF 1 | DWG NO 2770 6555 | REV A | RELEASED ER 63322

C.C.2-9520

Burroughs Corporation

TITLE	CIRCUIT LIST, MOTHER BOARD		
SYSTEM	B91E		DWG NO 2770 6555
DRAWN BERSCHE 5-12-80	CHECKED J. Hill 5-15-80		
APPROVED D. Kelly 5/16/80	RELEASED ER 63322	REV LETTER A	PAGE 1 OF 1

INPUT | SCHEMATIC | OUTPUT

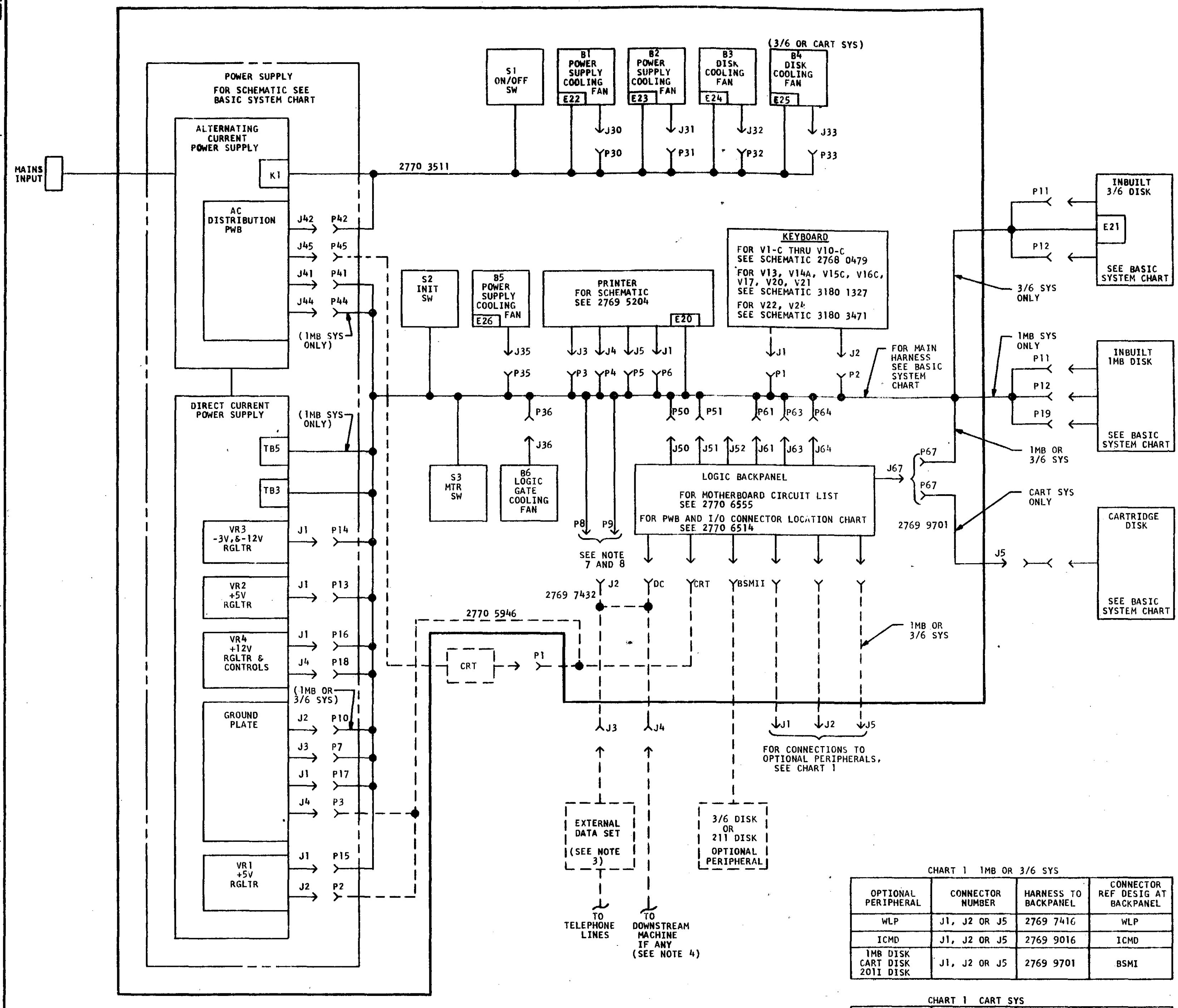


CHART 1 1MB OR 3/6 SYS

OPTIONAL PERIPHERAL	CONNECTOR NUMBER	HARNESS TO BACKPANEL	CONNECTOR REF DESIG AT BACKPANEL
WLP	J1, J2 OR J5	2769 7416	WLP
ICMD	J1, J2 OR J5	2769 9016	ICMD
1MB DISK CART DISK 2011 DISK	J1, J2 OR J5	2769 9701	BSMI

CHART 1 CART SYS

OPTIONAL PERIPHERAL	CONNECTOR NUMBER	HARNESS TO BACKPANEL	CONNECTOR REF DESIG AT BACKPANEL
WLP	J1 OR J2	2769 7416	WLP
ICMD	J1 OR J2	2769 9016	ICMD
1MB DISK CART DISK 2011 DISK	J1 OR J2	2769 9701	BSMI

BASIC SYSTEM CHART

DESCRIPTION	POWER SUPPLY SCHEMATIC	DISK	MAIN HARNESS
BASIC 3/6 SYSTEM	2770 4204	INBUILT 3/6	2770 2349
BASIC 1MB SYSTEM	2770 4485	INBUILT 1MB	2770 1796
BASIC CARTRIDGE SYSTEM	2770 4204	CARTRIDGE	2770 3867

NOTES:

1. FRAME GND; PRINTER GND (1); DISK GND (2); RGLTR FRAME (3)
2. DASHED LINES INDICATE OPTIONS.
3. J3 GOES TO EXTERNAL DATA SET OR UPSTREAM MACHINE.
4. J4 GOES TO DOWNSTREAM MACHINE, AWAY FROM DATA SET.
5. DATA COMM OPTIONS USE J3 AND J4 FOR QUICK DISCONNECT.
6. ABBREVIATIONS:
   - 1MB = INBUILT 1MB DISK
   - 3/6 = INBUILT 3/6 DISK
   - CART = CARTRIDGE DISK
   - CRT = CATHODE RAY TUBE
   - DC = DATA COMM
   - WLP = WIDE LINE PRINTER
7. P8 (ORN WIRE) CONNECTED TO J2 ON 1ST CHANNEL DATA COMM HARNESS.
8. P9 (WHT/ORN WIRE) CONNECTED TO J2 ON 2ND CHANNEL DATA COMM HARNESS.
9. ▲ SHOWN AT TERMINATION POINTS INDICATES A SECOND TERMINATOR TYPE FOR THAT POINT. SEE CONNECTOR/TERMINATOR CHART.
10. WIRES IDENTIFIED BY "W" NUMBERS INDICATE PART NUMBERS AS FOLLOWS:
    W1 - 2770 4493
11. ASTERISK (*) INDICATES SOURCE OF SIGNAL.

UNLESS OTHERWISE SPECIFIED:
WIRE COLOR IS WHITE

REV	
A	RELEASED ER 63322
B	ECN 63025 PAGE 7 AFFECTED

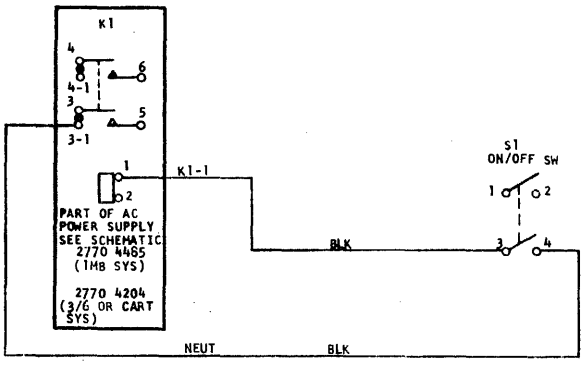
DWG. NO. 2770 6522 PAGE 1 OF 7

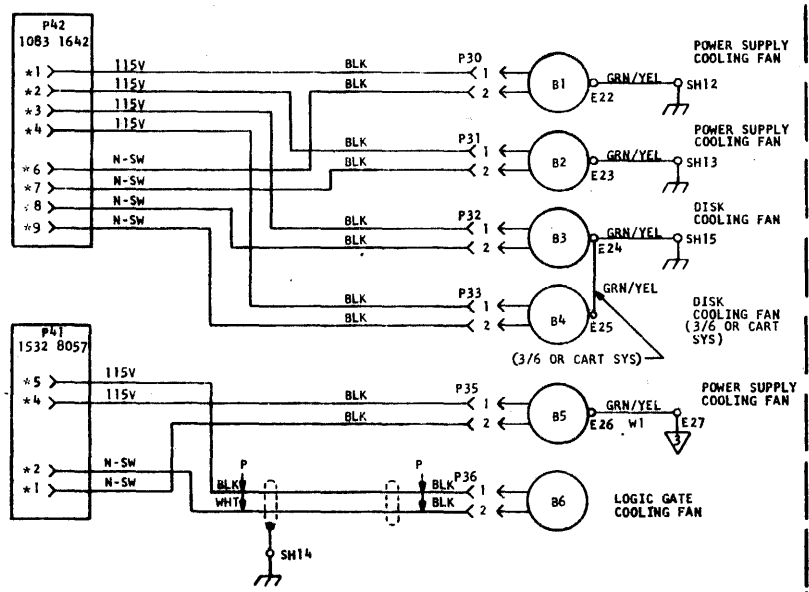
C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT U.S. AMERICA

TITLE WIRING SCHEMATIC, SYSTEM (BLOCK DIAGRAM & NOTES)
SYSTEM B91E
DRAWN F. KOWALEWSKI 6-9-80 | CHECKED R. GLENN 7-28-80 | DWG. NO. 2770 6522
APPROVED | RELEASED ER 63322 | REV LETTER B | PAGE 1 OF 7

FORM PLY 47 PR





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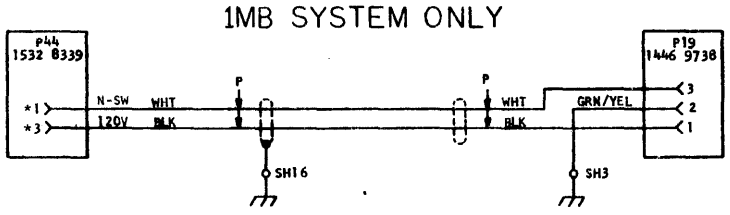
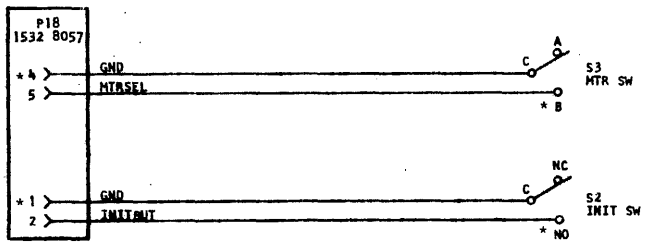
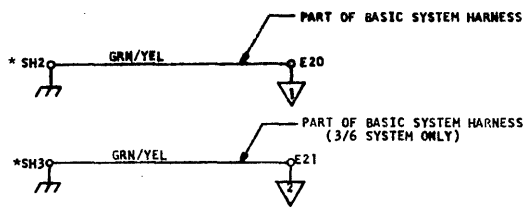
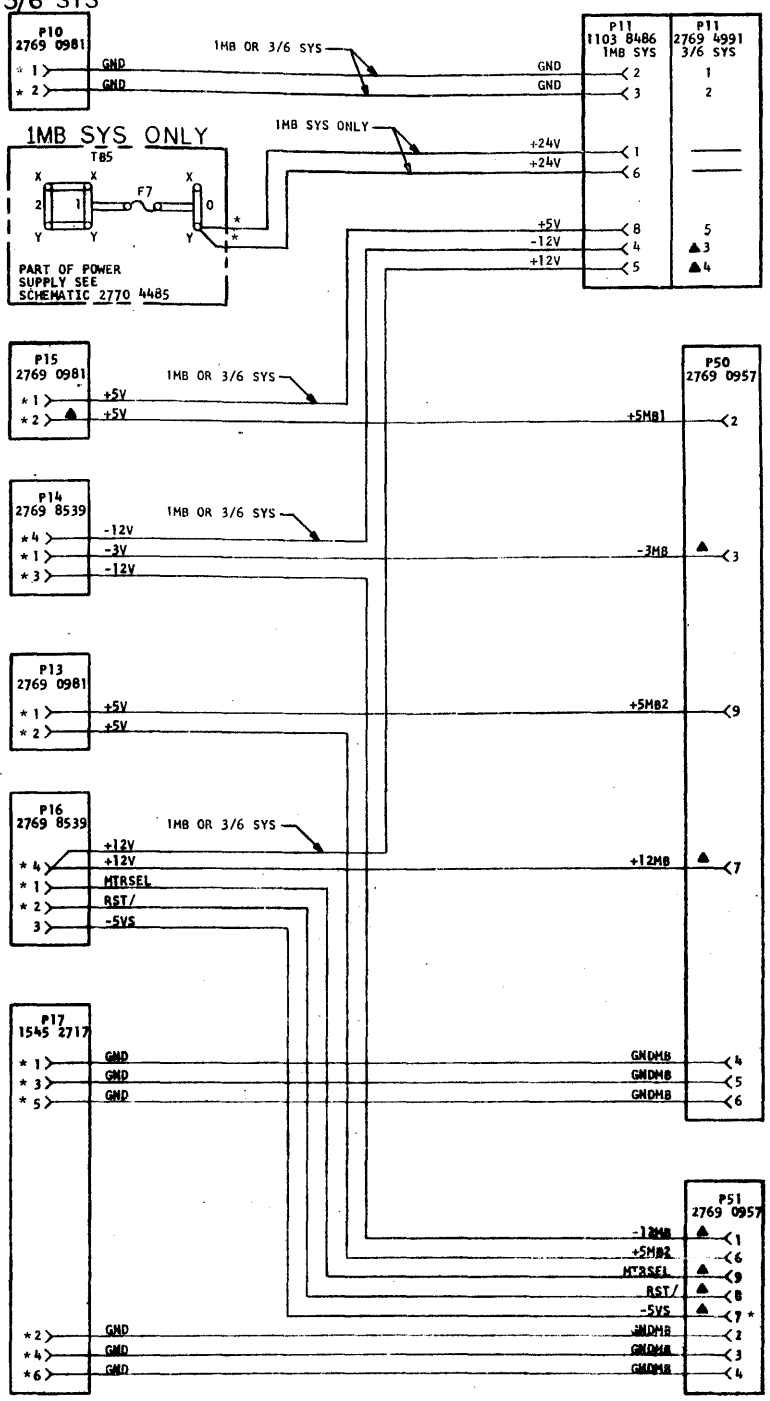


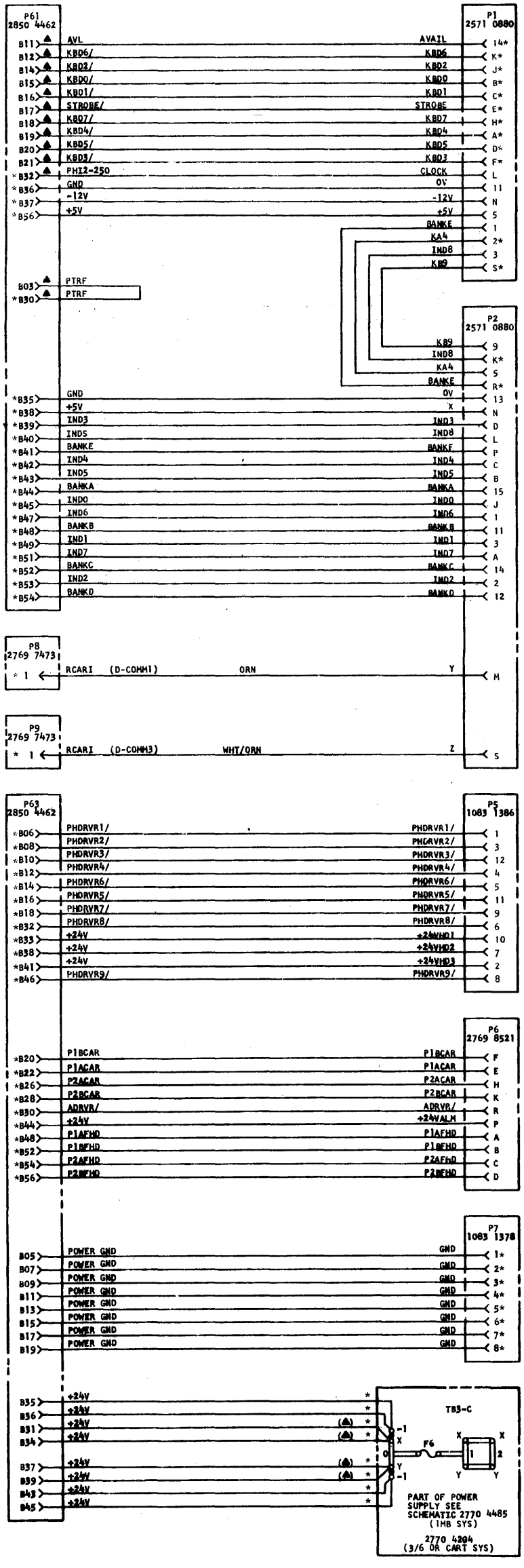


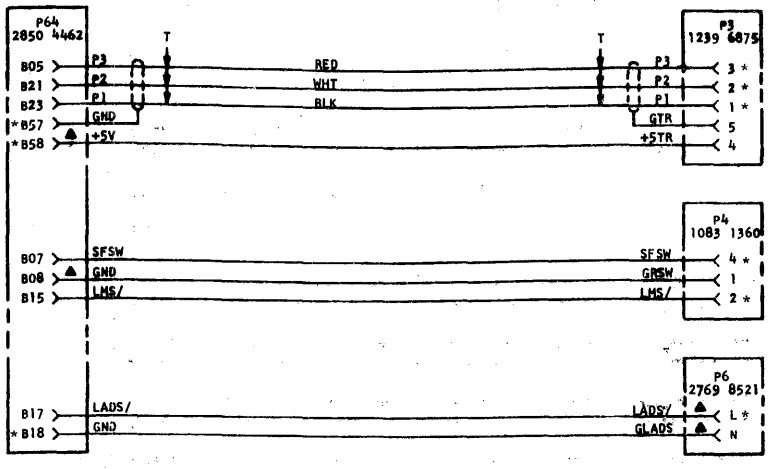


1MB OR 3/6 SYS



TITLE	WIRING SCHEMATIC, SYSTEM (AC & BASIC WIRING)
SYSTEM	B91E
DRAWN	F. KOWALEWSKI 6-11-80
CHECKED	R. GLENN 7-21-80
APPROVED	
RELEASED	ER 63322
DWG. NO.	2770 6522
REV LETTER	B
PAGE	2 OF 7





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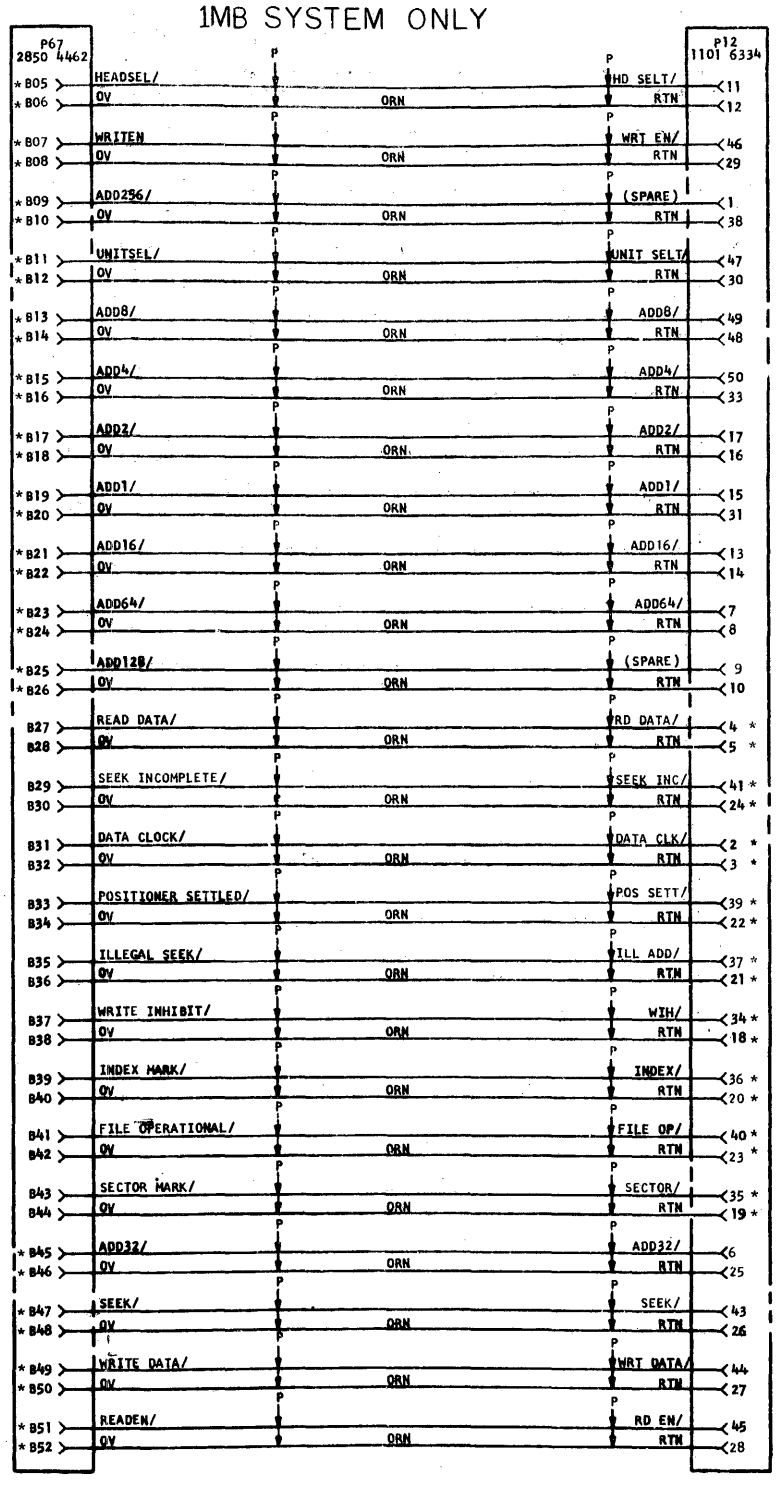


DWG. NO. 2770 6522 PAGE 3 OF 7

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA

TITLE WIRING SCHEMATIC, SYSTEM (BASIC MACH WIRING)
SYSTEM B91E
DRAWN C. KOWALEWSKI 6-10-80
CHECKED R. GLENN 7-21-80
APPROVED
RELEASED ER 63322
REV LETTER B
DWG. NO. 2770 6522
PAGE 3 OF 7

CRT WIRING (OPTIONAL)

CRT 2850 4462				P1 1101 6334
*B05	0V	ORN	0V	22
*B06	DATA4/		DATA 4/	5*
*B07	0V	ORN	0V	23
*B08	DATA5/		DATA 5/	6*
*B09	0V	ORN	0V	20
*B10	DATA2/		DATA 2/	3*
*B11	0V	ORN	0V	21
*B12	DATA3/		DATA 3/	4*
*B13	0V	ORN	0V	18
*B14	DATA0/		DATA 0/	1*
*B15	0V	ORN	0V	19
*B16	DATA1/		DATA 1/	2*
*B17	0V	ORN	0V	24
*B18	DATA6/		DATA 6/	7*
*B19	0V	ORN	0V	25
*B20	DATA7/		DATA 7/	8*
*B21	0V	ORN	0V	30
*B22	CCMD/		CCMD/	13
*B23	0V	ORN	0V	28
*B24	RW/		RW/	11
*B25	0V	ORN	0V	29
*B56	INC/		I.N.C./	44
B26	VBLANK/		V.BLANK/	39*
B29	12X40/		12X40/	14*
B30	SOVFL/		SOVF/	35*
B32	LOVFL/		LOVF/	34*
*B33	CTRSEL/		CTR SEL./	41
*B35	TESTFL/		TEST FLG/	40
B37	GND RET		GND.RTN.	36*
B38	PWROK/		PWROK/	46*
B43	LPREQ/		LP.REQ/	38*
*B47	ø1/	ORN	ø1/	9
*B48	0V		0V	26
*B49	ø2/	ORN	ø2/	10
*B50	0V		0V	27
*B52	INITQ/		INIT Q/	45
*B53	LDR/		L.D.R./	43
*B55	LDC/		L.D.C./	42
*B34	DRN/		DRN/	12
*B03	TESTFL			
B44	TESTFL			

P2 1083 1378			
*1	+5V		5V 15
*2	+5V		5V 16
*6	+5V		5V 17
*7	+5V		5V 33
*8	+5V		5V 32

P3 1532 8057			
*1	GND		0V 31
*2	GND		0V 50
*3	GND		0V 49
*4	GND		0V 48
*5	GND		0V 47

DATA COMM WIRING (OPTIONAL)

DC 2850 4462				J2 2769 7473
*B25	RCARI	ORN	RCARI	1

J3 1473 3430			
B06	DSRU		DSRU Y*
B07	RCARU		RCARU K*
B15	RCDATAU		RCDATAU X*
*B17	SLSTBYU		SLSTBYU V
B19	TRCLKU		TRCLKU T*
B20	RCCLKU		RCCLKU BB*
*B23	TRDATAU		TRDATAU Z
B34	RINGU		RINGU h*
*B35	DTRU		DTRU f
*B37	STFU-RATEU		RATEU A
*B38	REQSNDU		REQSNDU a
*B51	DMU		DMU m
*B52	ORIGU		ORIGU c
B13	CLRSNDU		CLRSNDU S*
*B28	GND		SIGGRDU E
SH9			FRAME GRD GRN/YEL B

J4 1473 3422			
B05	SLSTBYD		SLSTBYD V*
*B09	DSRD		DSRD Y
*B10	CLRSNDD		CLRSNDD x
*B11	RCARD		RCARD F
B14	TRDATAD		TRDATAD HH*
*B21	TRCLKD		TRCLKD T
*B22	RCCLKD		RCCLKD BB
*B26	RCDATAD		RCDATAD EE
*B27	GND		SIGGRDD n
B31	STFD-RATED		RATED h*
B32	DTRD		DTRD c*
B33	REQSNDD		REQSNDD DD*
*B36	RINGD		RINGD d
B49	ORIGD		ORIGD H*
B45	DMD		DMD m*
SH10			FRAME GRD GRN/YEL B*

WLP WIRING (OPTIONAL)

WLP 2850 4462				SET CHART 1 2769 8786
B20	GND	ORN	GND	16*
B25	EOPL		EOPL	21*
B24	GND	ORN	GND	20*
B29	MASTAT/		MA STAT/	25*
*B26	GND	ORN	GND	22
B31	(SPARE)		(SPARE)	27
B30	(SPARE)	ORN	(SPARE)	26
B32	(SPARE)		(SPARE)	28
B36	GND	ORN	GND	32*
B41	ACK/		ACK/	37*
*B37	GND	ORN	GND	33
*B42	DOP6		BIT 7	38
*B38	GND	ORN	GND	34
*B43	DOP5		BIT 6	39
*B39	GND	ORN	GND	35
*B44	DOP4		BIT 5	40
*B45	GND	ORN	GND	41
*B50	DOP3		BIT 4	46
*B46	GND	ORN	GND	42
*B51	DOP2		BIT 3	47
*B47	GND	ORN	GND	43
*B52	DOP1		BIT 2	48
*B48	GND	ORN	GND	44
*B53	DOP0		BIT 1	49
B33	GND	ORN	GND	29*
B34	PE		PE	30*
B35	GND	ORN	GND	31*
B40	RDY/		READY/	36*
*B49	GND	ORN	GND	45
*B54	DSTB/		DSTB RAW/	50

ICMD WIRING (OPTIONAL)

ICMD 2850 4462				SEE CHART 1 2769 8786
B05	SIGGND	ORN	SIGGND	29*
B06	DDIN/		READ DATA COMPOSITE/	24*
*B07	SIGGND	ORN	SIGGND	6
*B08	LOAD HEAD/		HEAD LOAD/	1
B09	SIGGND	ORN	SIGGND	7*
B10	TRACK##/		TRACK##/	2*
B11	SIGGND	ORN	SIGGND	8*
B12	INDEX/		INDEX/	3*
*B13	SIGGND	ORN	SIGGND	9
*B14	ABOVE43/		LOW CURRENT/	4
*B15	SIGGND	ORN	SIGGND	10
*B16	SEEK IN/		STEP IN/	5
*B17	SIGGND	ORN	SIGGND	16
*B18	SEEK OUT/		STEP OUT/	11
*B19	SIGGND	ORN	SIGGND	17
*B20	WREN/		WRITE ENABLE/	12
*B21	SIGGND	ORN	SIGGND	18
*B22	WRITEDATA		WRITE DATA	13
*B23	SIGGND	ORN	SIGGND	19
*B24	SELECT1/		UNIT SEL 1/	14
*B25	SIGGND	ORN	SIGGND	20
*B26	SELECT2/		UNIT SEL 2/	15
*B27	SIGGND	ORN	SIGGND	27
*B28	SELECT3/		UNIT SEL 3/	22
*B29	SIGGND	ORN	SIGGND	26
*B30	SELECT4/		UNIT SEL 4/	21
B31	SIGGND	ORN	SIGGND	28*
B32	READY1/		RDY1/	23*
B33	SIGGND	ORN	SIGGND	47*
B34	READY2/		RDY2/	42*
B35	SIGGND	ORN	SIGGND	38*
B36	READY3/		RDY3/	33*
B37	SIGGND	ORN	SIGGND	40*
B38	READY4/		RDY4/	35*
B39	SIGGND	ORN	SIGGND	48*
B40	HDSTLDED/		HEAD LOADED/	43*
B41	SIGGND	ORN	SIGGND	39
B42	(SPARE)		(SPARE)	34
B43	SIGGND	ORN	SIGGND	30
B44	(SPARE)		(SPARE)	25
B45	SIGGND	ORN	SIGGND	50
B46	(SPARE)		(SPARE)	45
B47	SIGGND	ORN	SIGGND	37*
B48	WRFAR/		WRITE FAULT/	32*
*B49	SIGGND	ORN	SIGGND	36
*B50	WRFAR/		WRITE FAULT RESET/	31
*B51	SIGGND	ORN	SIGGND	46
*B52	ENHDTO/		ENABLE HEAD LOAD T.O./	41
B53	SIGGND	ORN	SIGGND	49
B54	(SPARE)		(SPARE)	44

DWG. NO. 2770 6522 PAGE 4 OF 7

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA

TITLE: WIRING SCHEMATIC, SYSTEM (CRT, ICMD, WLP, & DATA COMM WIRING)
SYSTEM: B91E
DWG. NO. 2770 6522
DRAWN: F. KOWALEWSKI 6-10-80
CHECKED: R. GLENN 7-28-80
APPROVED:
RELEASED: ER 63322
REV LETTER: B
PAGE: 4 OF 7

P67 (DISK) 2850 4462 — CART SYS DISK WIRING — J5 2769 8786

BSM1 2850 4462 — 1MB, CART OR 201I DISK PERIPHERAL WIRING — SEE CHART 1 2769 8786

*B05	HEADSEL/	ORN	HEADSEL/	→ 14	
*B06	0V		GND	→ 19	
*B07	WRITEN	ORN	WRTEN/	→ 22	
*B08	0V		GND	→ 27	
*B09	ADD256/	ORN	(SPARE)	→ 44	
*B10	0V		GND	→ 49	
*B11	UNITSEL/	ORN	UNITSEL1/	→ 24	
*B12	0V		GND	→ 29	
*B13	ADD8/	ORN	ADD8/	→ 4	
*B14	0V		GND	→ 9	
*B15	ADD4/	ORN	ADD4/	→ 3	
*B16	0V		GND	→ 8	
*B17	ADD2/	ORN	ADD2/	→ 2	
*B18	0V		GND	→ 7	
*B19	ADD1/	ORN	ADD1/	→ 1	
*B20	0V		GND	→ 6	
*B21	ADD16/	ORN	ADD16/	→ 5	
*B22	0V		GND	→ 10	
*B23	ADD64/	ORN	ADD64/	→ 12	
*B24	0V		GND	→ 17	
*B25	ADD128/	ORN	ADD128/	→ 13	
*B26	0V		GND	→ 18	
B27	READ DATA/	ORN	RD DATA	→ 35*	
B28	0V		GND	→ 40*	
B29	SEEK INCOMPLETE/	ORN	POS ERROR/	→ 34*	
B30	0V		GND	→ 39*	
B31	DATA CLOCK/	ORN	DATA CLK	→ 43*	
B32	0V		GND	→ 48*	
B33	POSITIONER SETTLED/	ORN	POS SET/	→ 33*	
B34	0V		GND	→ 38*	
B35	ILLEGAL SEEK/	ORN	ILLG ADD/	→ 41*	
B36	0V		GND	→ 46*	
B37	WRITE INHIBIT/	ORN	WIH/	→ 25*	
B38	0V		GND	→ 30*	
B39	INDEXMARK/	ORN	INDEX/	→ 32*	
B40	0V		GND	→ 37*	
B41	FILE OPERATIONAL/	ORN	FILE OP/	→ 42*	
B42	0V		GND	→ 47*	
B43	SECTOR MARK/	ORN	SECTOR	→ 31*	
B44	0V		GND	→ 36*	
*B45	ADD32/	ORN	ADD32/	→ 11	
*B46	0V		GND	→ 16	
*B47	SEEK/	ORN	SEEK/	→ 15	
*B48	0V		GND	→ 20	
*B49	WRITEDATA/	ORN	WRTDATA/	→ 23	
*B50	0V		GND	→ 28	
*B51	READEN/	ORN	RD EN/	→ 21	
*B52	0V		GND	→ 26	
B53	(SPARE)	ORN	(SPARE)	→ 45	
B54	0V		GND	→ 50	

3/6 DISK SYS ONLY

P67 2850 4462 — P12 2767 7012

B05	DATATH0-	ORN	DATATH0-	5*
B06	DATATH0+		DATATH0+	6*
B07	DATATH1-	ORN	DATATH1-	7*
B08	DATATH1+		DATATH1+	8*
B09	DATATH2-	ORN	DATATH2-	9*
B10	DATATH2+		DATATH2+	10*
B11	DATATHP-	ORN	DATATHP-	11*
B12	DATATHP+		DATATHP+	12*
*B13	POR-	ORN	POR-	13
*B14	POR+		POR+	14
B15	DATATH3-	ORN	DATATH3-	15*
B16	DATATH3+		DATATH3+	16*
B17	DS-	ORN	DS-	17*
B18	DS+		DS+	18*
B19	DATATH4-	ORN	DATATH4-	19*
B20	DATATH4+		DATATH4+	20*
B21	DPC-	ORN	DPC-	21*
B22	DPC+		DPC+	22*
B23	DATATH5-	ORN	DATATH5-	23*
B24	DATATH5+		DATATH5+	24*
B25	DATATH6-	ORN	DATATH6-	25*
B26	DATATH6+		DATATH6+	26*
B27	DATATH7-	ORN	DATATH7-	27*
B28	DATATH7+		DATATH7+	28*
*B29	DATAFH4-	ORN	DATAFH4-	29
*B30	DATAFH4+		DATAFH4+	30
*B31	DATAFH5-	ORN	DATAFH5-	31
*B32	DATAFH5+		DATAFH5+	32
*B33	DATAFH6-	ORN	DATAFH6-	33
*B34	DATAFH6+		DATAFH6+	34
*B35	DATAFH7-	ORN	DATAFH7-	35
*B36	DATAFH7+		DATAFH7+	36
*B37	CLOCK-	ORN	CLOCK-	37
*B38	CLOCK+		CLOCK+	38
*B39	DATAFHO-	ORN	DATAFHO-	39
*B40	DATAFHO+		DATAFHO+	40
*B41	DATAFH1-	ORN	DATAFH1-	41
*B42	DATAFH1+		DATAFH1+	42
*B43	DATAFH2-	ORN	DATAFH2-	43
*B44	DATAFH2+		DATAFH2+	44
*B45	DATAFH3-	ORN	DATAFH3-	45
*B46	DATAFH3+		DATAFH3+	46
*B47	DATAFHP-	ORN	DATAFHP-	47
*B48	DATAFHP+		DATAFHP+	48
*B49	CONTD-	ORN	CONTD-	49
*B50	CONTD+		CONTD+	50
*B51	DIRD-	ORN	DIRD-	51
*B52	DIRD+		DIRD+	52
*B53	HS-	ORN	HS-	53
*B54	HS+		HS+	54
*B55	HPC-	ORN	HPC-	55
*B56	HPC+		HPC+	56

DWG. NO. 2770 6522 PAGE 5 OF 7

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA

TITLE WIRING SCHEMATIC, SYSTEM (BASIC WIRING)
SYSTEM B91E
DRAWN F. KOWALEWSKI 6-10-80
CHECKED R. GLENN 7-28-80
APPROVED
RELEASED ER 63322
DWG. NO. 2770 6522
REV LETTER B
PAGE 5 OF 7

FORM FLY 67 FR

CONNECTOR/TERMINATOR CHART

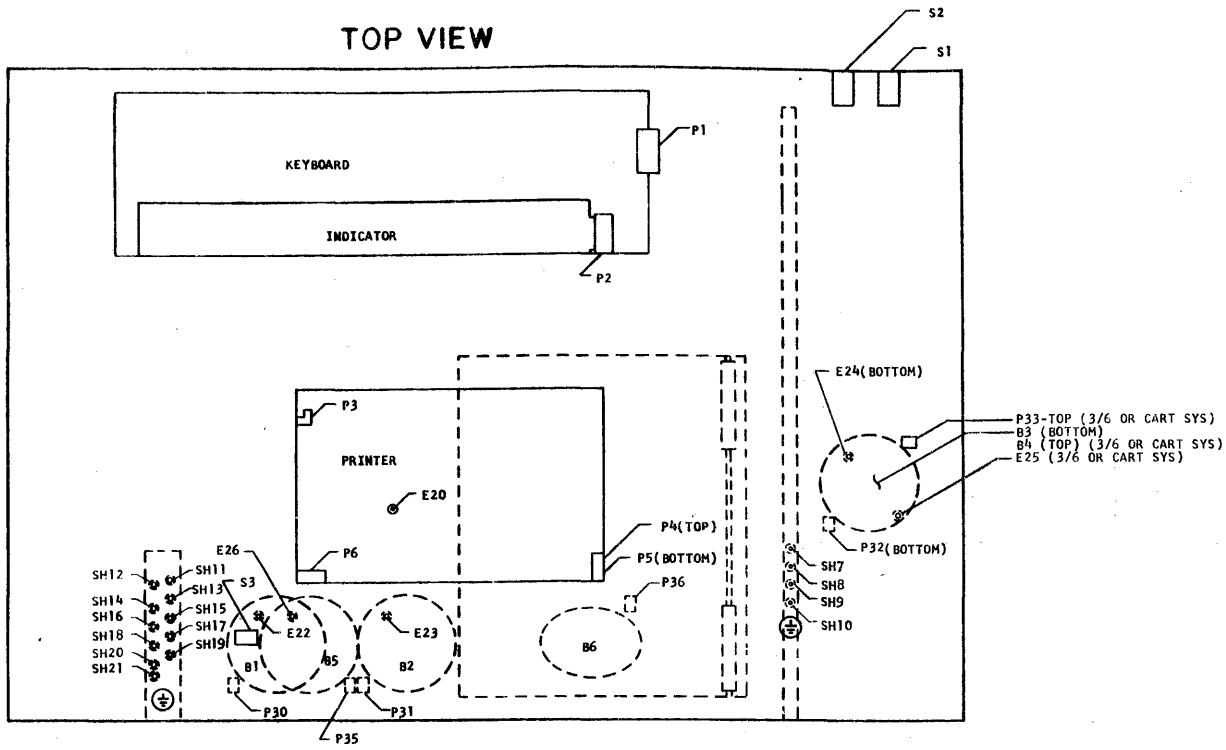
REF. DES	LOCATION	CONNECTOR PART NO.	TERMINATOR(S)	1MB SYS	3/6 SYS	CART SYS
CRT	I/O CONNECTOR	2850 4462	2851 5039	X	X	X
DC	I/O CONNECTOR	2850 4462	2851 5039	X	X	X
E20	PRINTER		1073 3327	X	X	X
E21	DISK		1073 3293		X	
E22,E23	FANS		1073 3327	X	X	X
E25,E26	FANS		1073 3327	X	X	X
E24	FAN		1321 9258	X	X	X
E27	RGLTR FRAME		1073 3327	X	X	X
ICMD	I/O CONNECTOR	2850 4462	2851 5039	X	X	X
J1	ICMD	2769 8786	1472 0734	X	X	X
J2	WLP	2769 8786	1472 0734	X	X	X
J2	DATA COMM	2769 7473	1472 0726	X	X	X
J3	DATA COMM	1473 3430	1472 0726, ▲1471 5635	X	X	X
J4	DATA COMM	1473 3422	1472 0726, ▲1471 5635	X	X	X
J5	DISK	2769 8786	1472 0734			X
K1	POWER SUPPLY		1471 9884	X	X	X
P1	CRT	1101 6334	1101 6359	X	X	X
P1	KEYBOARD	2571 0880	2105 5223	X	X	X
P2	POWER SUPPLY	1083 1378	1532 8040	X	X	X
P2	KEYBOARD IND'S	2571 0880	2105 5223	X	X	X
P3	PS GND PLATE	1532 8057	1532 8040	X	X	X
P3	PRINTER	1239 6875	1239 0712	X	X	X
P4	PRINTER	1083 1360	1532 8040	X	X	X
P5	PRINTER	1083 1386	1532 8040	X	X	X
P6	PRINTER	2769 8521	1071 8864, ▲1472 0726	X	X	X
P7	PS GND PLATE	1083 1378	1532 8040	X	X	X
P8	DATA COMM CH1	2769 7473	1472 0734	X	X	X
P9	DATA COMM CH2	2769 7473	1472 0734	X	X	X
P10	PS GND PLATE	2769 0981	2769 4983	X		
P10	PS GND PLATE	2769 0981	1545 2287		X	
P11	DISK DC	1103 8486	2770 1804	X		
P11	DISK	2769 4991	1545 2287, ▲2769 4983		X	
P12	DISK	1101 6334	1101 6359	X		
P12	DISK	2767 7012	2767 7129		X	
P13	+5V RGLTR VR2	2769 0981	1545 2287	X	X	X
P14	-3V, -12V RGLTR	2769 8539	2769 4983	X		
P14	-3V, -12V RGLTR	2769 8539	2769 4983, ▲1545 2287		X	X
P15	+5V RGLTR VR1	2769 0981	2769 4983, ▲1545 2287	X		
P15	+5V RGLTR VR1	2769 0981	1545 2287		X	X
P16	+12V RGLTR	2769 8539	2769 4983	X		
P16	+12V RGLTR	2769 8539	2769 4983, ▲1545 2287		X	X
P17	PS GND PLATE	1545 2717	1545 2287	X	X	X
P18	+12V RGLTR	1532 8057	1532 8040	X	X	X
P19	DISK AC	1446 9738	1881 1604, ▲1877 7599	X		
P41	AC DIST PWB	1532 8057	1532 8040	X	X	X
P42	AC DIST PWB	1083 1642	1532 8040	X	X	X
P44	AC DIST PWB	1532 8339	1532 8040	X		
P45	AC DIST PWB	1532 8339	1532 8040		X	X
P50	MOTHERBOARD	2769 0957	2769 0932, ▲2769 0924	X	X	X
P51	MOTHERBOARD	2769 0957	2769 0932, ▲2769 0924	X	X	X
P61	I/O CONNECTOR	2850 4462	2851 5047, ▲2851 5039	X	X	X
P63	I/O CONNECTOR	2850 4462	2851 5047	X	X	X
P64	I/O CONNECTOR	2850 4462	2851 5039, ▲2851 5047	X	X	X
P67	I/O CONNECTOR	2850 4462	2851 5039	X	X	X
SH2,3,9, 10,12-16	FRAME GND		2470 5352	X		
SH2,3,9, 10,12-15	FRAME GND		2470 5352		X	
SH2,9, 10,12-15	FRAME GND		2470 5352			X
S1	ON/OFF SWITCH		1535 1745	X	X	X
S2	INIT. SWITCH		1473 2911	X	X	X
S3	MTR SWITCH		1127 7233	X	X	X
TB3	POWER SUPPLY		1472 1070, ▲1472 8109	X	X	X
TB5	POWER SUPPLY		1472 8109	X		
WLP	I/O CONNECTOR	2850 4462	2851 5039	X	X	X

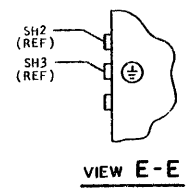
DWG. NO. 2770 6522
PAGE 6 OF 7

TITLE	WIRING SCHEMATIC, SYSTEM (CONNECTOR/TERMINATOR CHART)		
SYSTEM	B91E		DWG. NO. 2770 6522
DRAWN	F. KOWALEWSKI 6-12-80	CHECKED	R. GLENN 7-21-80
APPROVED		RELEASED	ER 63322
REV LETTER	B	PAGE	6 OF 7

FORM PLY 47 PR

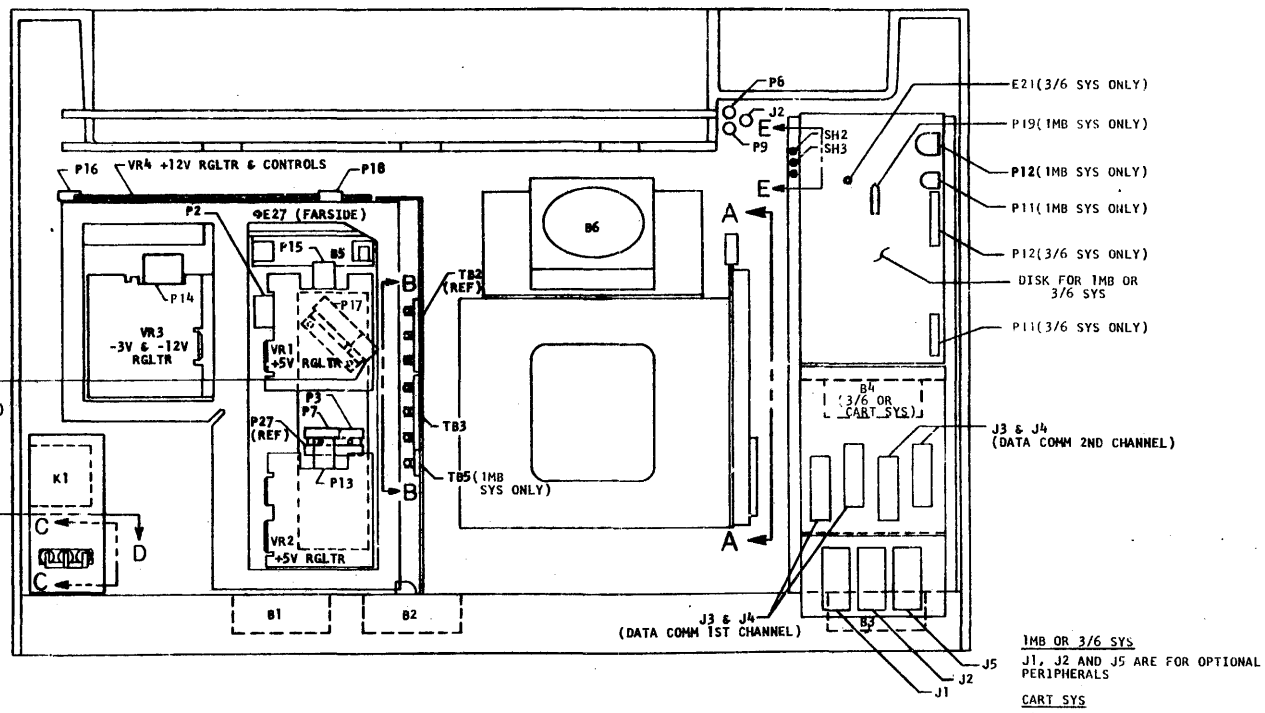
TOP VIEW

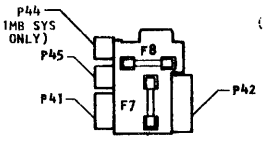




VIEW E-E

BACK VIEW





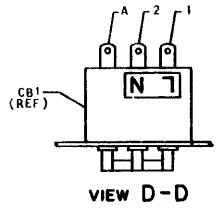
VIEW C-C

1MB OR 3/6 SYS

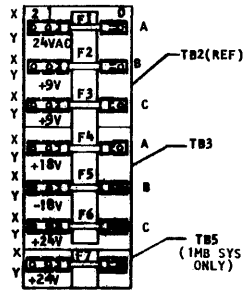
J1, J2 AND J5 ARE FOR OPTIONAL PERIPHERALS

CART SYS

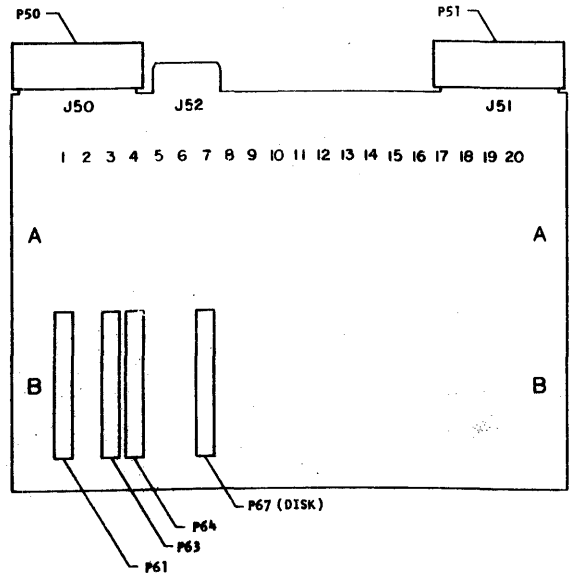
J1 AND J2 ARE FOR OPTIONAL PERIPHERALS.
J5 IS FOR SYSTEM DISK



VIEW D-D



VIEW B-B



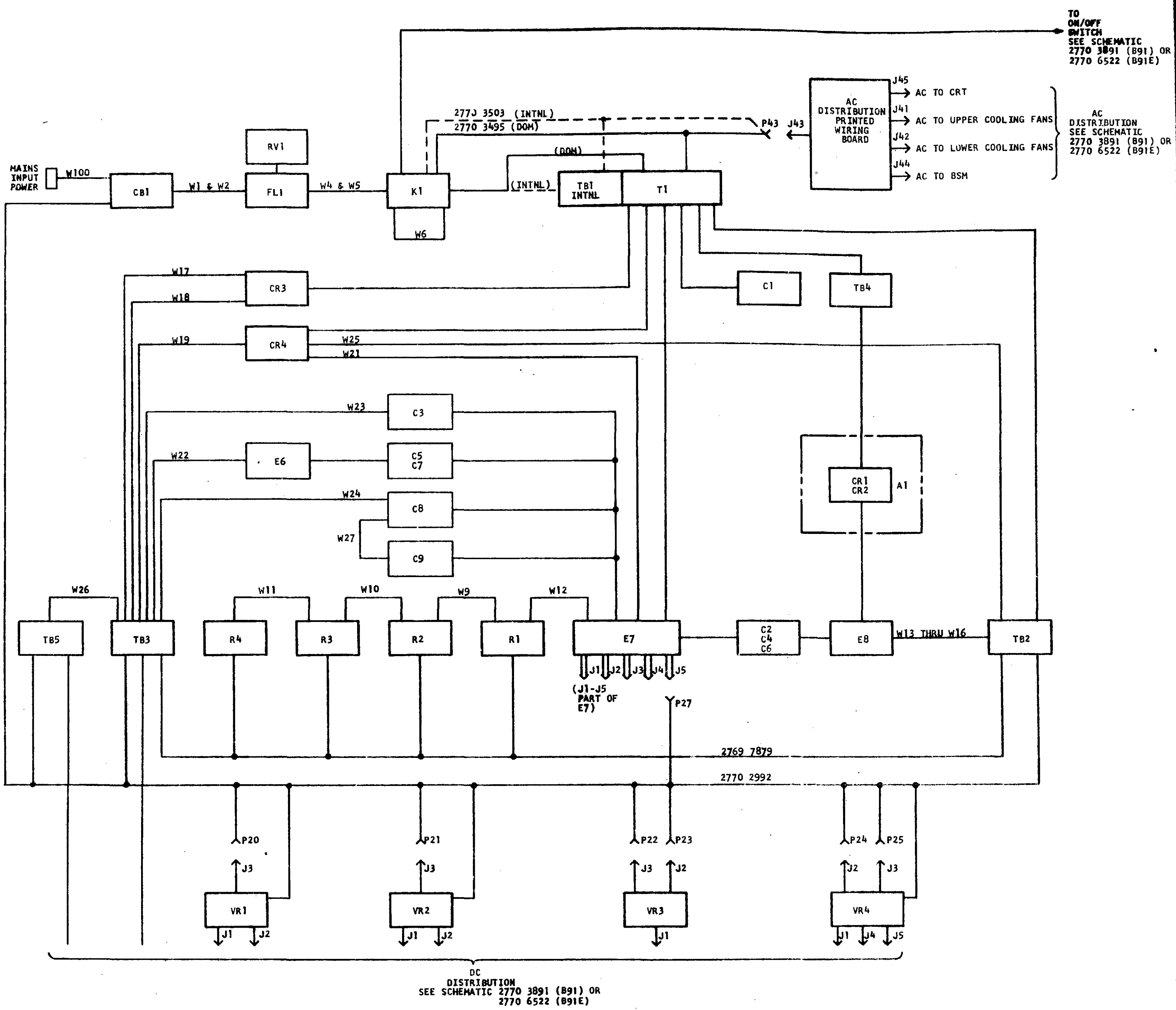
VIEW A-A
VIEWED FROM PIN SIDE OF MOTHERBOARD

DWG. NO. 2770 6522 PAGE 7 OF 7

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S.A.

TITLE	WIRING SCHEMATIC, SYSTEM (VISUAL AIDS)
SYSTEM	B91E
DRAWN	F. KOWALEWSKI 6-12-80
CHECKED	R. GLENN 7-21-80
APPROVED	
RELEASED	ER 63322
REV LETTER	B
DWG. NO.	2770 6522
PAGE	7 OF 7

FORM FLY 6 PR



NOTES:

1. FOR POWER SUPPLY ASSEMBLIES SEE:

   AC INPUT PANEL 100V-127V 50/60Hz 2770 3420 PL
   AC INPUT PANEL 200V-240V 50/60Hz 2770 3438 PL

   POWER SUPPLY 120V 60Hz 2770 3446 PL
   POWER SUPPLY 100V-240V 60Hz 2770 3453 PL
   POWER SUPPLY 100V-240V 50Hz 2770 3461 PL

2. MAIN FRAME; DC PANEL (1); AC PANEL (2); RGLTR FRAME (3)

3. CIRCLED NUMBERS ○ INDICATE TAGGED WIRES

4. NAMES NOT IN PARENTHESIS ARE SYSTEM SIGNAL NAMES.
   NAMES IN PARENTHESIS ARE ABBREVIATIONS OR OTHER INFORMATION.

5. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

TRANSISTORS	DIODES
A - 1471 4802	A - 1471 4729
B - 1537 6551	B - 2769 4397
C - 2571 1003	

6. WIRES IDENTIFIED BY "W" NUMBERS INDICATE PART NUMBERS AS FOLLOWS:

W1, W2:	2769 7788	W13, W14, W15, W16:	2769 7838
W3:	2769 7796	W17, W18, W19:	2769 7846
W4, W5:	2769 7804	W20:	2571 3603
W6, W26:	1534 8949	W21:	2571 3538
W8:	2769 7812	W22, W24:	2769 7853
W9, W10, W11:	1104 1365	W23:	2769 7861
W12:	2769 7820	W25:	2571 3595
		W27:	2574 2768
		W100:	SEE CHART 1

7. ABBREVIATIONS:

   INTNL - INTERNATIONAL
   DOM - DOMESTIC
   RGLTR - REGULATOR
   PWB - PRINTED WIRING BOARD
   BSM - BURROUGH'S SUPER MINI DISK
   CRT - CATHODE-RAY TUBE

8. DASHED LINE INDICATES OPTIONS

UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS

REV LTR	
A	RELEASED ER 62990
B	ECN 63046 PAGES 2&5 ALTERED
C	ECN 62775 PAGES 1,4,5 AFFECTED
D	ECN 62920 PAGE 4 AFFECTED
E	ECN 63412 PAGE 1&3 AFFECTED
F	ECN 63025 PAGE 5 AFFECTED

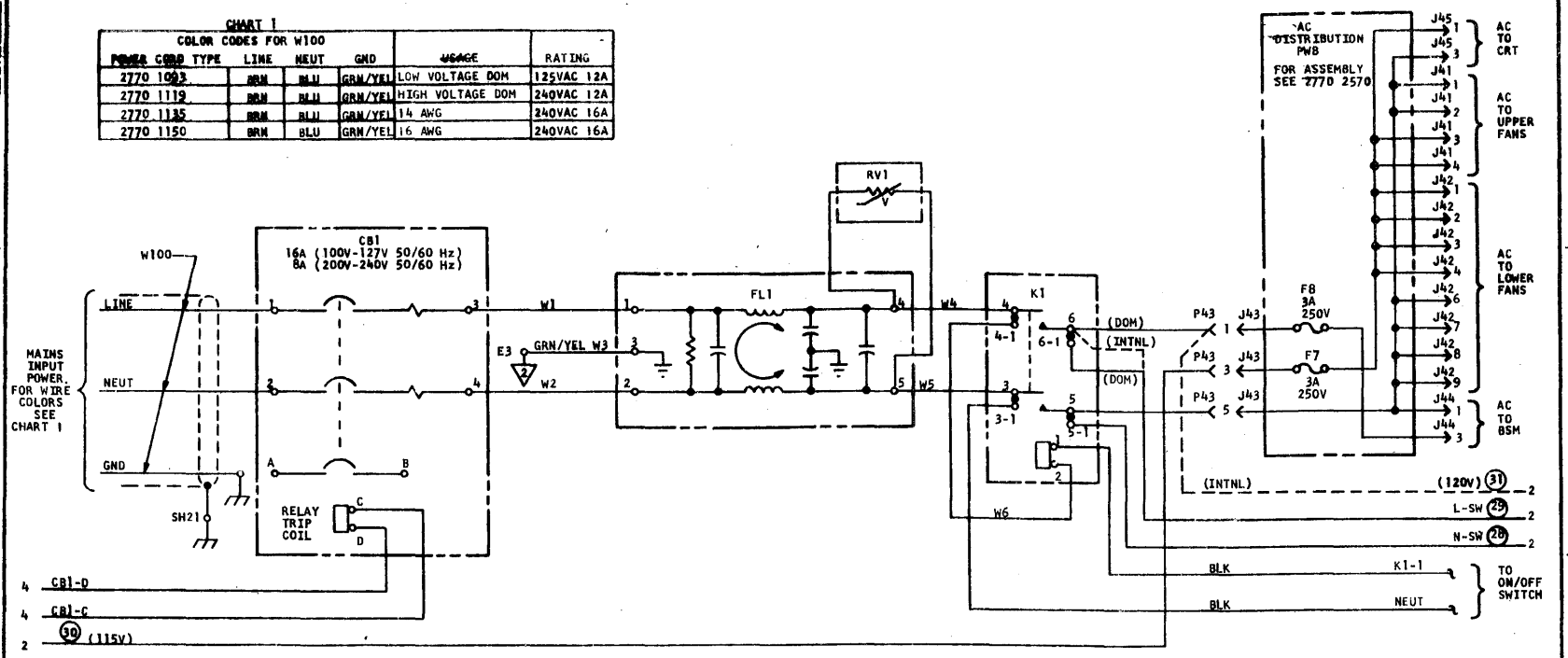
DWG. NO. 2770 4485 PAGE 1 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT, U. S. AMERICA

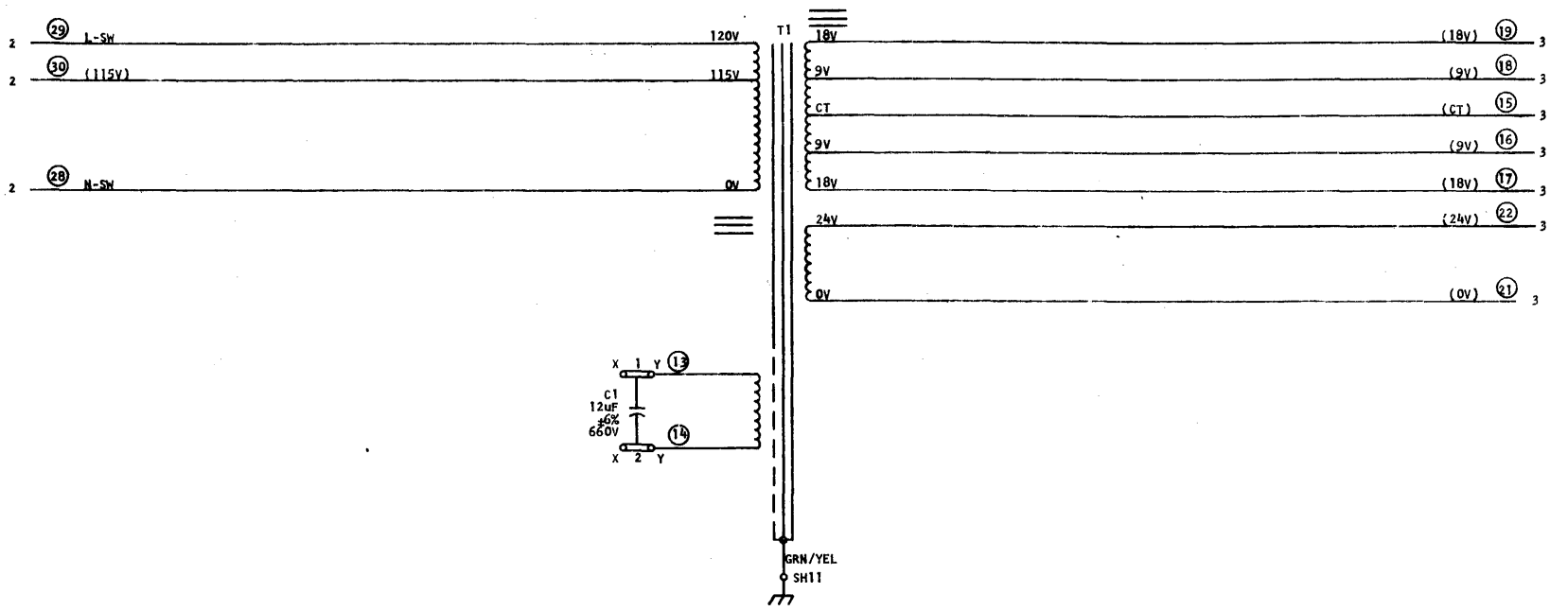
TITLE: WIRING SCHEMATIC, POWER SUPPLY, (BLOCK DIAGRAM, INDEX & NOTES)
SYSTEM: B91 BSM
DRAWN: E. KARAS 11-15-79
CHECKED: R.F.G. 12-12-79
APPROVED
DWG. NO. 2770 4485
REV LETTER F
PAGE 1 OF 5

CHART 1

COLOR CODES FOR W100					
POWER CORD TYPE	LINE	NEUT	GND	USAGE	RATING
2770 1093	BRN	BLU	GRN/YEL	LOW VOLTAGE DOM	125VAC 12A
2770 1119	BRN	BLU	GRN/YEL	HIGH VOLTAGE DOM	240VAC 12A
2770 1135	BRN	BLU	GRN/YEL	14 AWG	240VAC 16A
2770 1150	BRN	BLU	GRN/YEL	16 AWG	240VAC 16A



DOMESTIC 60 Hz



INTERNATIONAL 50 Hz / 60 Hz

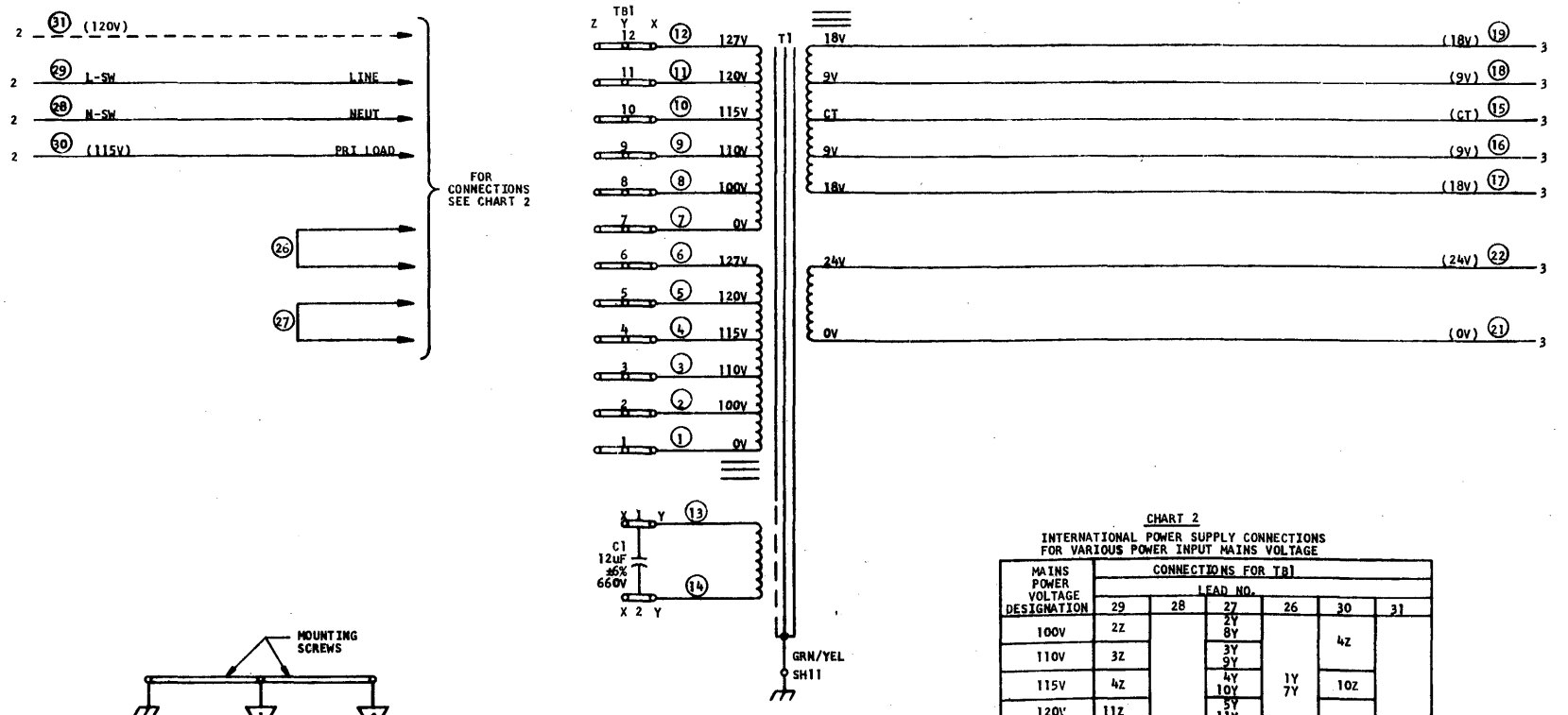
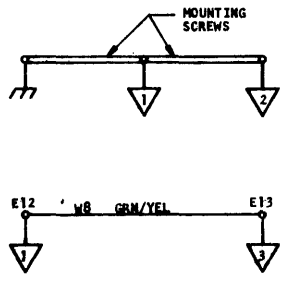


CHART 2

INTERNATIONAL POWER SUPPLY CONNECTIONS FOR VARIOUS POWER INPUT MAINS VOLTAGE

MAINS POWER VOLTAGE DESIGNATION	CONNECTIONS FOR TB1 LEAD NO. 29	28	27	26	30	31
100V	2Z	1Z	2Y 8Y	1Y 7Y	4Z	5Z
110V	3Z		3Y 9Y			
115V	4Z		4Y 10Y		10Z	
120V	11Z		5Y 11Y		4Z	
127V	6Z		6Y 12Y			
200V	8Z		12Y 12Z	2Y 7Y		
208V	9Z			3Y 7Y		
220V						
230V	10Z			4Y 7Y		
240V	11Z			5Y 7Y		



DWG. NO. 2770 4485 PAGE 2 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA

TITLE: WIRING SCHEMATIC, POWER SUPPLY (AC SECTION)
SYSTEM: B91 BSM
DRAWN: E. KARAS 11-15-79
CHECKED: R.C.G. 12-12-79
APPROVED:
RELEASED:
DWG. NO. 2770 4485
REV LETTER F
PAGE 2 OF 5

INPUT | SCHEMATIC | OUTPUT

(22) (24V) — 2
(16) (9V) — 2
(18) (9V) — 2
(15) (CT) — 2
(17) (18V) — 2
(19) (18V) — 2
(21) (0V) — 2

TB4

HEAT SINK ASSY A1
A CR2
HEAT SINK
A CR1

E8

TB2-A
F1 15A TD 250V
TB2-B
F2 25A 32V
TB2-C
F3 25A 32V

W13
W14
W15
W16

+9VCAP 4
+9V 4
(A) +9V 4

C2 175,000uF +75% -10% 15V
C4 175,000uF +75% -10% 15V
C6 175,000uF +75% -10% 15V

R1 10 ±10% 25W

W12
W9

CR3 B
CR4 B

TB3-A
F4 15A 250V

+18VCAP 4
+18V 4

W17
W22

E6

C5 110,000uF +75% -10% 25V
C7 110,000uF +75% -10% 25V

R2 50 ±5% 25W

W10

E7

TB3-B
F5 10A 250V

-18VCAP 4
-18V 4
(A) -18V 4

W23
W18

C3 110,000uF +75% -10% 25V

R3 50 ±5% 25W

W11

TB5
F7 5A 250V

+24VCAP 4

TB3-C
F6 6A 250V

W26
W19
W24
W25
W27

C8 89,000uF +75% -10% 30V
C9 89,000uF +75% -10% 30V

R4 50 ±5% 25W

W21

FOR CONTINUATION OF CIRCUIT SEE SCHEMATIC 2770 3891 (891) OR 2770 6522 (891E)

FOR CONTINUATION OF CIRCUIT SEE SCHEMATIC 2770 3891 (891) OR 2770 6522 (891E)

J1 THRU J5 PART OF E7 GND BUS PLATE

J1
J2
J3
J4
GND DISTRIBUTION

P27

J5

(A) GND 4
(B) GND 4
(C) GND 4
(D) GND 4
(E) GND 4
(F) GND 4
(G) GND 4
(H) GND 4
(I) GND 4
(J) GND 4
(K) GND 4
(L) GND 4

W20 (WHT)
E5

DWG. NO. 2770 4485
PAGE 3 of 5

Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT
U. S. AMERICA

TITLE WIRING SCHEMATIC, POWER SUPPLY (DC SECTION)
SYSTEM 891 BSM
DRAWN E. KARAS 11-15-79
CHECKED R. E. G. 12-12-79
APPROVED
RELEASED
DWG. NO. 2770 4485
REV LETTER F
PAGE 3 OF 5

INPUT | SCHEMATIC ↓ | OUTPUT

3 +9V

3 GND (L)

3 GND (K)

3 GND (J)

VR1 (FOR ASSY SEE 2769 4173)
TYPICAL FOR VR2

TRANSISTOR MOUNTING SCREW

E9

HEATSINK

TRANSISTOR MOUNTING SCREWS

Q101 Q102 Q103 Q104

+5V RGLTR PWB FOR SCHEMATIC SEE 2769 4066

P20 J3 1
P20 J3 2
P20 J3 3
J3 4
J3 5
P20 J3 6 — POS REF
P20 J3 7 — +18V
P20 J3 8 — +5VS
J3 9

J1 1
J1 2
J2 1
J2 2
J2 3
J2 4
J2 5
J2 6
J2 7
J3 8

3 +9V (A)

3 GND (I)

3 GND (H)

3 GND (G)

P21 J3 1
P21 J3 2
P21 J3 3
P21 J3 6 — POS REF
P21 J3 7 — +18V
P21 J3 8 — +5VS

E10

VR2
+5V RGLTR
FOR TYPICAL CIRCUIT
SEE VR1

VR3 (FOR ASSY SEE 2769 4181)

PWB MOUNTING SCREWS

-12V

Q107 Q108

HEATSINK

TRANSISTOR MOUNTING SCREWS

-3V & -12V RGLTR PWB FOR SCHEMATIC SEE 2770 3123

3 -18V

3 -18V (A)

3 GND (D)

3 GND (E)

3 GND (F)

P22 J3 1
P22 J3 2
P23 J2 3
P23 J2 4
P23 J2 5
J2 6
P23 J2 7 — +18V
P23 J2 2 — -12V
P23 J2 1 — -3V

J1 1
J1 2
J1 3
J1 4

3 +18V

VR4 (FOR ASSY SEE 2769 4165)

PWB MOUNTING SCREWS

E11

+18V

HEATSINK

TRANSISTOR MOUNTING SCREWS

Q105 Q106

+12V RGLTR & CONTROLS PWB FOR SCHEMATIC SEE 2769 4116

P24 J2 1 — -3V
P24 J2 11 — -12V
P24 J2 14 — +18V
P24 J2 3 — +5VS
P24 J2 13 — +18V
P24 J2 10 — POS REF
P24 J2 2 — +5VS
P24 J2 12 — +18V
P24 J2 9 — POS REF

3 GND (A)

3 GND (B)

3 GND (C)

P24 J2 4
P24 J2 5
P24 J2 6
J2 7
J2 8

3 +18VCAP

3 +24VCAP

3 +9VCAP

3 -18VCAP

P25 J3 1
P25 J3 2
P25 J3 8
P25 J3 10
P25 J3 3 — CBl-C
P25 J3 4 — CBl-D
J3 5
J3 6
J3 7
J3 9

J1 1
J1 2
J1 3
J1 4
J5 1
J5 2
J5 3
J5 4
J5 5

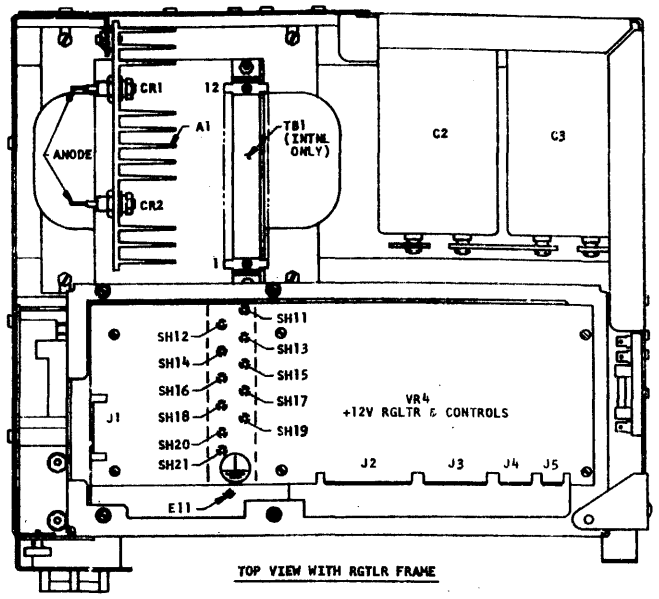
CBl-D 2

CBl-C 2

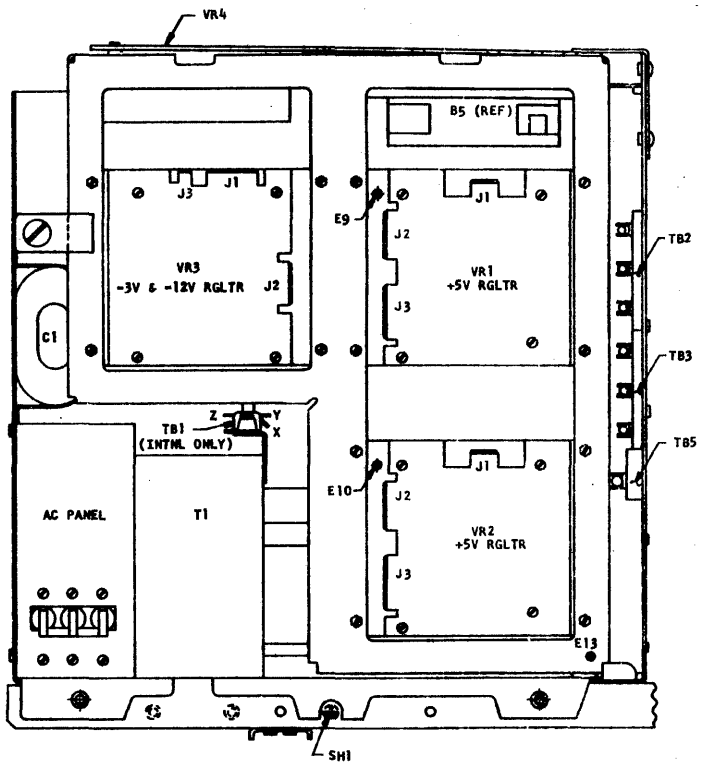
DWG. NO. 2770 4485
PAGE 4 of 5

Burroughs Corporation
SMALL SYSTEMS GROUP — PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 — U.S. AMERICA

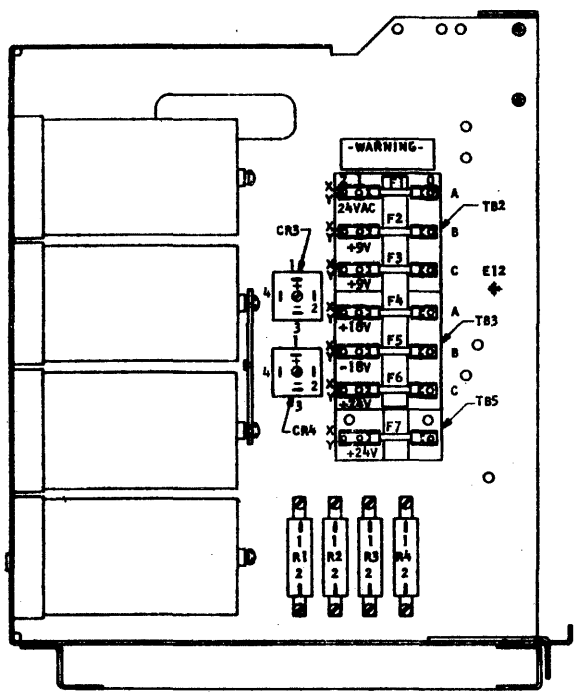
TITLE WIRING SCHEMATIC, POWER SUPPLY (DC SECTION)
SYSTEM B91 BSM
DRAWN E. NARAS 11-15-79
CHECKED R.C.G. 12-12-79
APPROVED
RELEASED
DWG. NO. 2770 4485
REV LETTER F
PAGE 4 OF 5



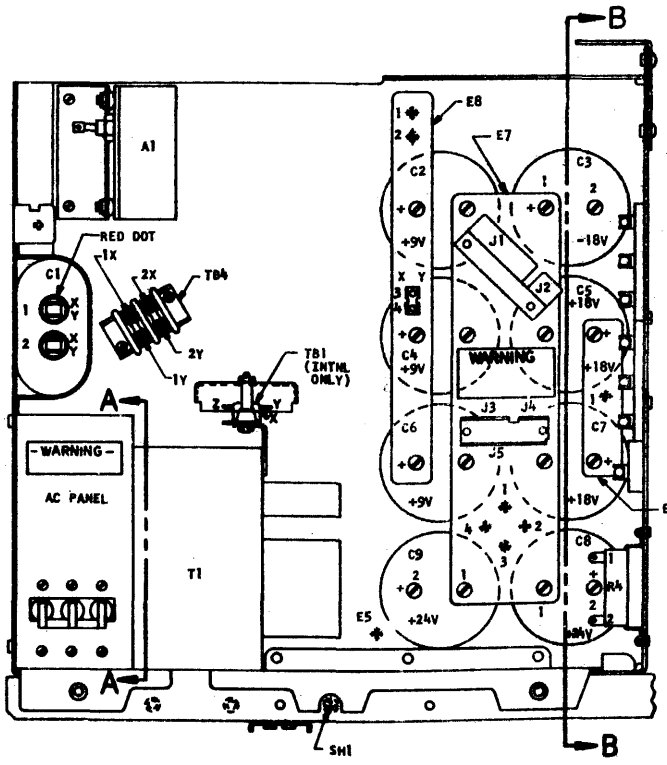
TOP VIEW WITH RGTLR FRAME

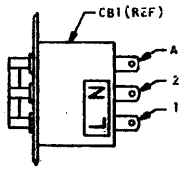


REAR VIEW WITH RGLTR FRAME

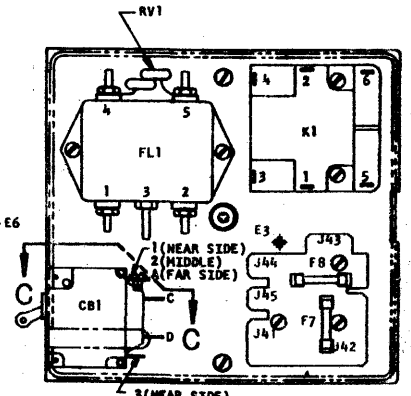


VIEW B-B





VIEW C-C



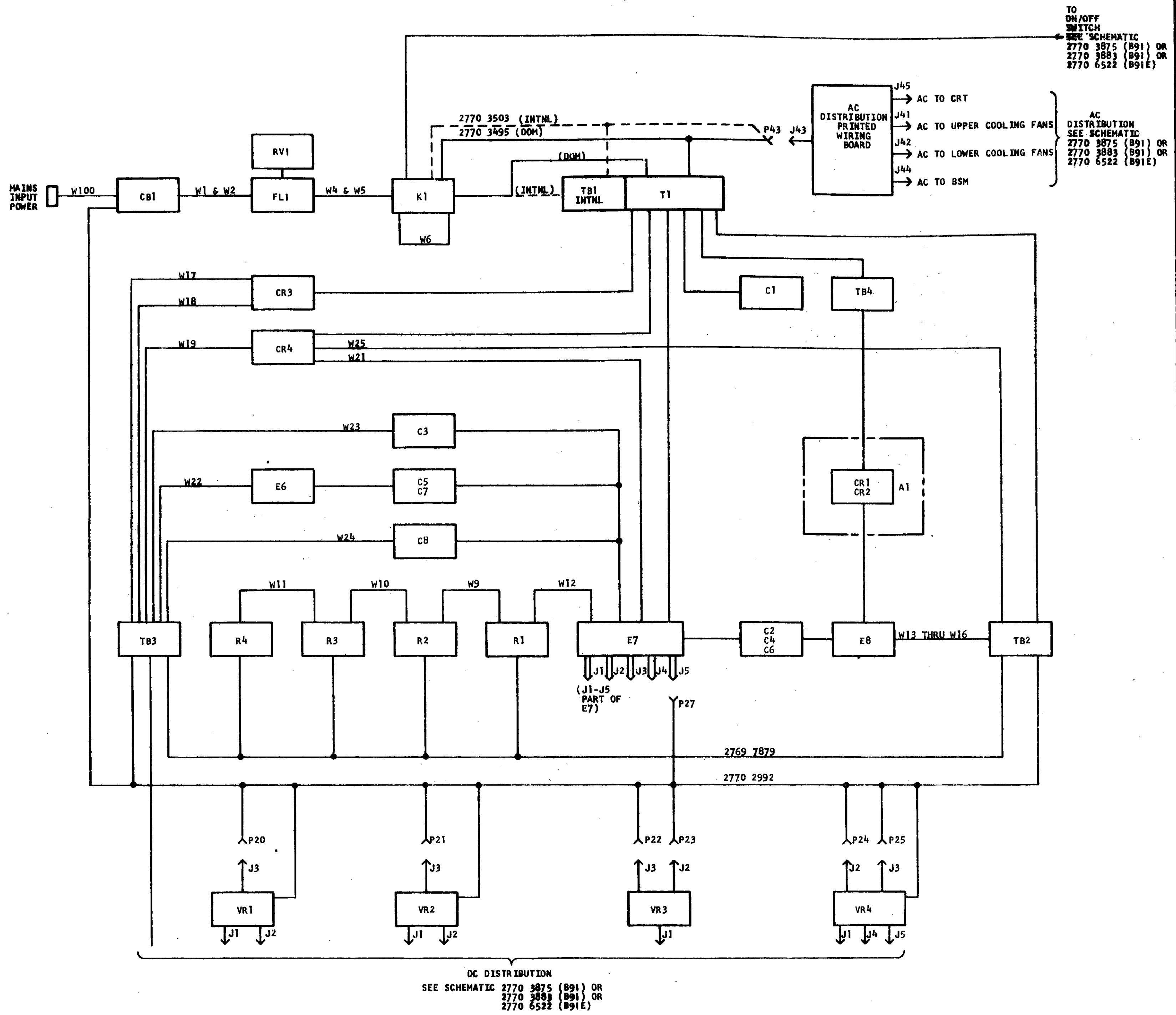
VIEW A-A
AC DISTRIBUTION PANEL

REAR VIEW WITHOUT RGLTR FRAME

DWG. NO. 2770 4485
PAGE 5 of 5

Burroughs Corporation
SMALL SYSTEMS GROUP · PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 · U.S. AMERICA

TITLE	WIRING SCHEMATIC, POWER SUPPLY (VISUAL AIDS)		
SYSTEM	B91 BSM		DWG. NO. 2770 4485
DRAWN	E.KARAS 11-15-79	CHECKED	12-12-79
APPROVED			REV.LETTER F · PAGE 5 OF 5



NOTES:

1. FOR POWER SUPPLY ASSEMBLIES SEE:
   AC INPUT PANEL 100V-127V 50/60Hz 2770 3420 PL
   AC INPUT PANEL 200V-240V 50/60Hz 2770 3438 PL

   POWER SUPPLY 120V 60Hz 2770 3198 PL
   POWER SUPPLY 100V-240V 60Hz 2770 3206 PL
   POWER SUPPLY 100V-240V 50Hz 2770 3214 PL

2. MAIN FRAME   1 DC PANEL   2 AC PANEL   3 RGLTR FRAME

3. CIRCLED NUMBERS ◯ INDICATE TAGGED WIRES

4. NAMES NOT IN PARENTHESIS ARE SYSTEM SIGNAL NAMES.
   NAMES IN PARENTHESIS ARE ABBREVIATIONS OR OTHER INFORMATION.

5. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

TRANSISTORS	DIODES
A - 1471 4802	A - 1471 4729
B - 1537 6551	B - 2769 4397
C - 2571 1003	

6. WIRES IDENTIFIED BY "W" NUMBERS INDICATE PART NUMBERS AS FOLLOWS:

W1, W2:	2769 7788	W13, W14, W15, W16:	2769 7838
W3:	2769 7796	W17, W18, W19:	2769 7846
W4, W5:	2769 7804	W20:	2571 3603
W6:	1534 8949	W21:	2571 3538
W8:	2769 7812	W22, W24:	2769 7853
W9, W10, W11:	1104 1365	W23:	2769 7861
W12:	2769 7820	W25:	2571 3595
		W100:	SEE CHART 1

7. ABBREVIATIONS:
   INTNL = INTERNATIONAL
   DOM = DOMESTIC
   RGLTR = REGULATOR
   PWB = PRINTED WIRING BOARD
   BSM = BURROUGH'S SUPER MINI DISK
   CRT = CATHODE-RAY TUBE

8. DASHED LINE INDICATES OPTIONS

UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS

PAGE	DWG. NO.	A	B	C	D	E	F
1 OF 5	2770 4204	RELEASED ECN62882	ECN 63046 PAGES 2&5 ALTERED	ECN 62775 PAGES 1+5 AFFECTED	ECN 62920 PAGE 4 AFFECTED	ECN 63412 PAGE 1+3 AFFECTED	ECN 63025 PAGE 5 AFFECTED

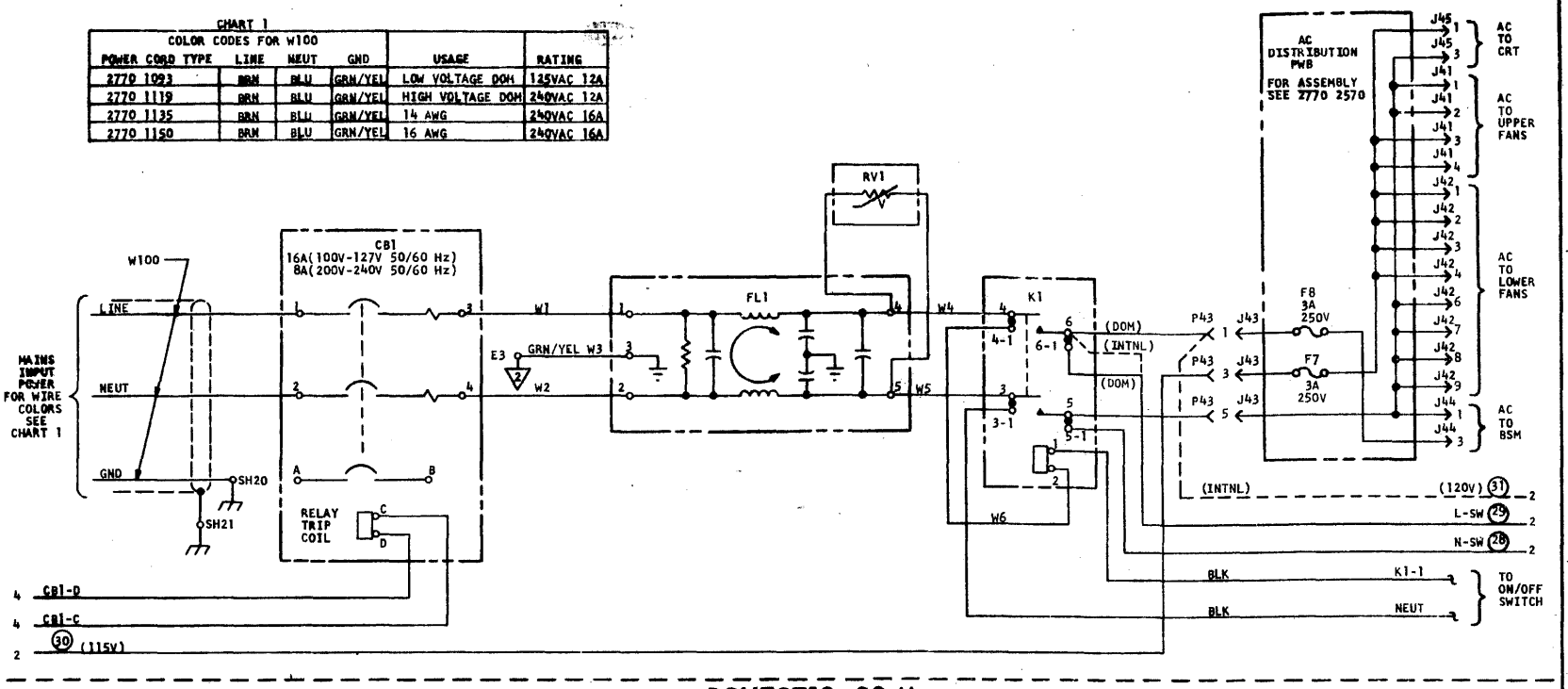
C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U. S. AMERICA

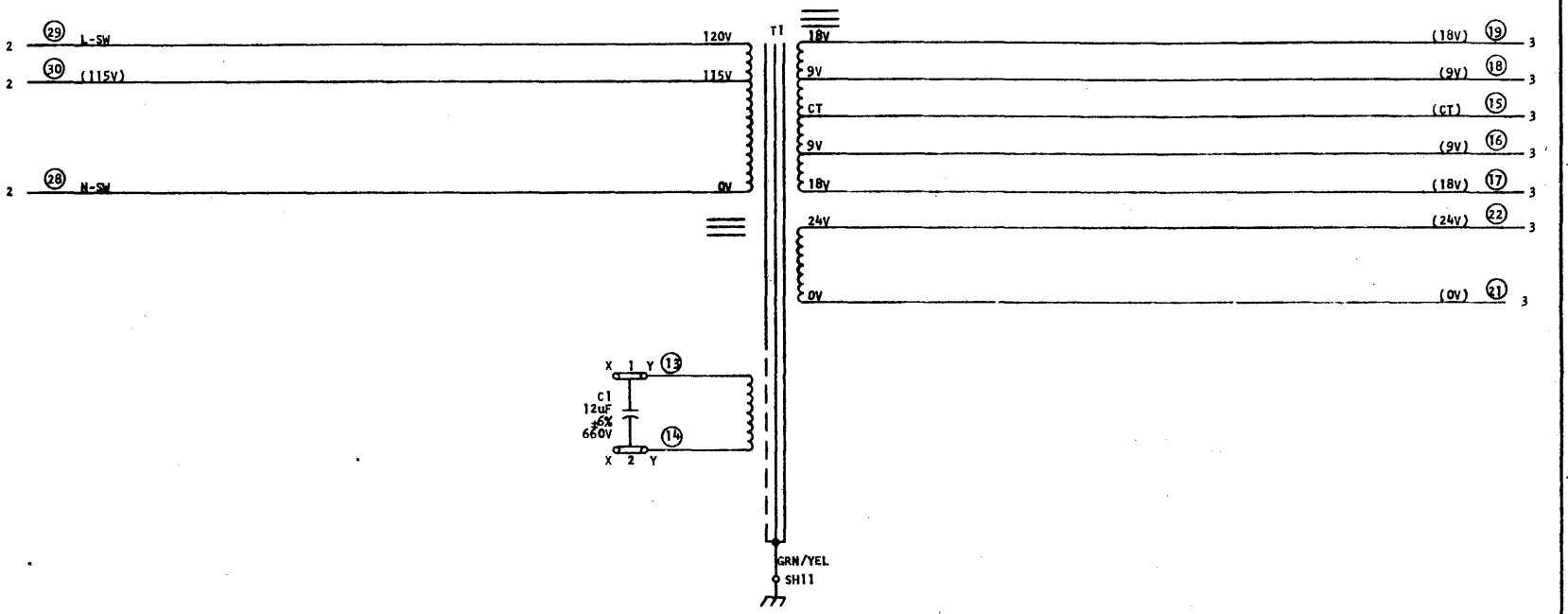
TITLE	WIRING SCHEMATIC, POWER SUPPLY (BLOCK DIAGRAM, INDEX & NOTES)
SYSTEM	B91
DRAWN	R. BELVILLE 10-15-79
CHECKED	R.C.G. 11-1-79
APPROVED	
RELEASED	
DWG. NO.	2770 4204
REV LETTER	F
PAGE	1 OF 5

CHART 1

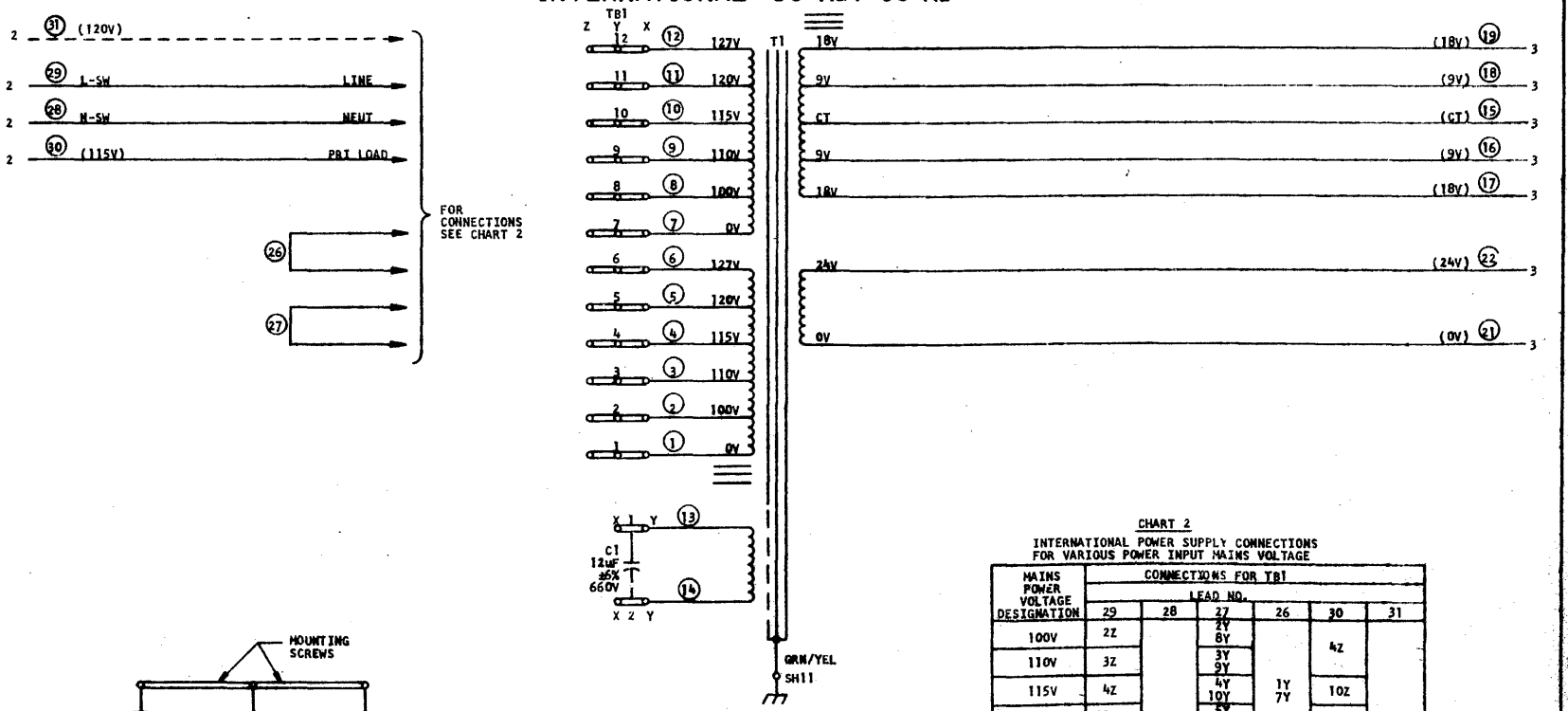
COLOR CODES FOR W100				USAGE	RATING
POWER CORD TYPE	LINE	NEUT	GND		
2770 1093	BRN	BLU	GRN/YEL	LOW VOLTAGE DOM	115VAC 12A
2770 1119	BRN	BLU	GRN/YEL	HIGH VOLTAGE DOM	240VAC 12A
2770 1135	BRN	BLU	GRN/YEL	14 AWG	240VAC 16A
2770 1150	BRN	BLU	GRN/YEL	16 AWG	240VAC 16A

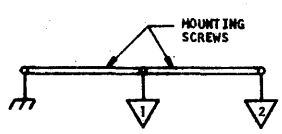


DOMESTIC 60 Hz



INTERNATIONAL 50 Hz / 60 Hz





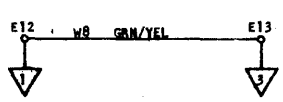


CHART 2

INTERNATIONAL POWER SUPPLY CONNECTIONS FOR VARIOUS POWER INPUT MAINS VOLTAGE

MAINS POWER VOLTAGE DESIGNATION	CONNECTIONS FOR TB1 LEAD NO. 29	28	27	26	30	31
100V	2Z	1Z	2Y 8Y	1Y 7Y	4Z	5Z
110V	3Z		3Y 9Y			
115V	4Z		4Y 10Y		10Z	
120V	11Z		5Y 11Y		4Z	
127V	6Z		6Y 12Y			
200V	8Z		12Y 12Z	2Y 7Y		
208V	9Z					
220V				3Y 7Y		
230V	10Z			4Y 7Y		
240V	11Z			5Y 7Y		

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE WIRING SCHEMATIC, POWER SUPPLY (AC SECTION)
SYSTEM 881 DWG. NO. 2770 4204
DRAWN E. KARAS 10-16-79 CHECKED K.C.G. 11-1-79
APPROVED REVISED REV LETTER F PAGE 2 OF 5

(22) (24V) — TB2-A F1 15A TD 250V — +9VCAP 4

(16) (9V) — TB4 — HEAT SINK ASSY A1 CR2 — E8 — W13 — TB2-B F2 25A 32V — +9V 4

(18) (9V) — HEAT SINK — CR1 — W14

W15 — TB2-C F3 25A 32V — (A) +9V 4

W16

C2 175,000uF +75% -10% 15V; C4 175,000uF +75% -10% 15V; C6 175,000uF +75% -10% 15V — W12 — R1 10 ±10% 25W

(15) (CT) — W9

CR3 B — (17) (18V); (19) (18V) — W17 — TB3-A F4 15A 250V — +18VCAP 4; +18V 4

W22 — E6 — C5 110,000uF +75% -10% 25V; C7 110,000uF +75% -10% 25V — R2 50 ±5% 25W — W10

E7 — W23 — TB3-B F5 10A 250V — -18VCAP 4; -18V 4; (A) -18V 4

W18 — C3 110,000uF +75% -10% 25V — R3 50 ±5% 25W — W11

CR4 B — (21) (0V) — W19 — TB3-C F6 6A 250V — +24VCAP 4

W24; W25 — C8 89,000uF +75% -10% 30V — R4 50 ±5% 25W

FOR CONTINUATION OF CIRCUIT SEE SCHEMATIC 2770 3875 (B91) OR 2770 3883 (B91) OR 2770 6522 (B91E)

W21

J1 THRU J5 PART OF E7 GND BUS PLATE

J1; J2; J3; J4 — GND DISTRIBUTION

P27 — J5

1 (A) GND 4
2 (B) GND 4
3 (C) GND 4
4 (D) GND 4
5 (E) GND 4
6 (F) GND 4
9 (G) GND 4
10 (H) GND 4
11 (I) GND 4
12 (J) GND 4
13 (K) GND 4
14 (L) GND 4

W20 (WHT) — E5

DRWG. NO. 2770 4204 PAGE 3 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S.A.

TITLE WIRING SCHEMATIC, POWER SUPPLY (DC SECTION)
SYSTEM B91
DRAWN E. KARAS 10-16-79
CHECKED R.C.G. 11-1-79
APPROVED
DWG. NO. 2770 4204
REV LETTER F
PAGE 3 OF 5

3 +9V

VR1 (FOR ASSY SEE 2769 4173)
TYPICAL FOR VR2

TRANSISTOR MOUNTING SCREW

E9

3 GND (L) — P20 J3 1
3 GND (K) — P20 J3 2
3 GND (J) — P20 J3 3
P20 J3 4
P20 J3 5
POS REF — P20 J3 6
+18V — P20 J3 7
+5VS — P20 J3 8
P20 J3 9

C B E Q101
B A E Q102
B A E Q103
B A E Q104

HEATSINK

TRANSISTOR MOUNTING SCREWS

+5V RGLTR PWB FOR SCHEMATIC SEE 2769 4066

J1 1, J1 2, J2 1, J2 2, J2 3, J2 4, J2 5, J2 6, J2 7, J2 8

3 +9V (A)
3 GND (I) — P21 J3 1
3 GND (H) — P21 J3 2
3 GND (G) — P21 J3 3
POS REF — P21 J3 6
+18V — P21 J3 7
+5VS — P21 J3 8

E10

VR2
+5V RGLTR
FOR TYPICAL CIRCUIT
SEE VR1

VR3 (FOR ASSY SEE 2769 4181)

PWB MOUNTING SCREWS

-12V

3 -18V — P22 J3 1
3 -18V (A) — P22 J3 2
3 GND (D) — P23 J2 3
3 GND (E) — P23 J2 4
3 GND (F) — P23 J2 5
P23 J2 6
+18V — P23 J2 7
-12V — P23 J2 2
-3V — P23 J2 1

C B E Q107
B B E Q108

HEATSINK

TRANSISTOR MOUNTING SCREWS

-3V & -12V RGLTR PWB FOR SCHEMATIC SEE 2770 3123

J1 1, J1 2, J1 3, J1 4

3 +18V

VR4 (FOR ASSY SEE 2769 4165)

PWB MOUNTING SCREWS

E11

+18V

-3V — P24 J2 1
-12V — P24 J2 11
+18V — P24 J2 14
+5VS — P24 J2 3
+18V — P24 J2 13
POS REF — P24 J2 10
+5VS — P24 J2 2
+18V — P24 J2 12
POS REF — P24 J2 9
3 GND (A) — P24 J2 4
3 GND (B) — P24 J2 5
3 GND (C) — P24 J2 6
J2 7
J2 8

B B E Q105
B B E Q106

HEATSINK

TRANSISTOR MOUNTING SCREWS

+12V RGLTR & CONTROLS PWB FOR SCHEMATIC SEE 2769 4116

J1 1, J1 2, J1 3, J1 4, J4 1, J4 2, J4 3, J4 4, J5 1, J5 2, J5 3

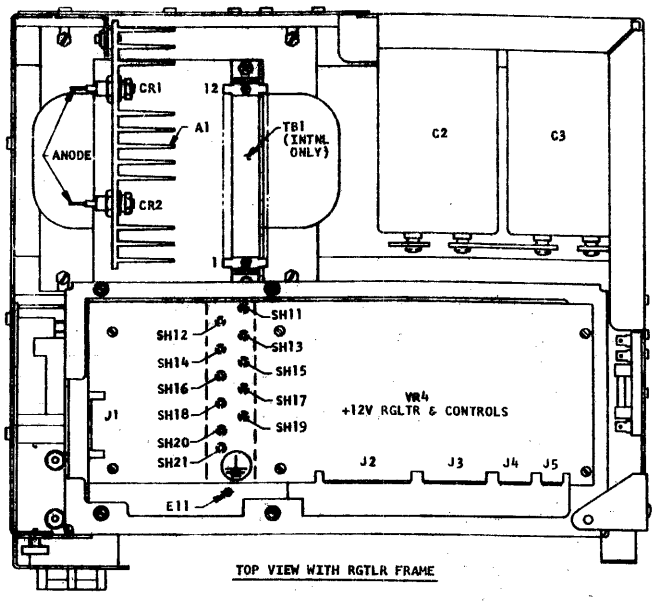
3 +18VCAP — P25 J3 1
3 +24VCAP — P25 J3 2
3 +8VCAP — P25 J3 8
3 -18VCAP — P25 J3 10
CB1-C — P25 J3 3
CB1-D — P25 J3 4
J3 5
J3 6
J3 7
J3 9

CB1-D 2
CB1-C 2

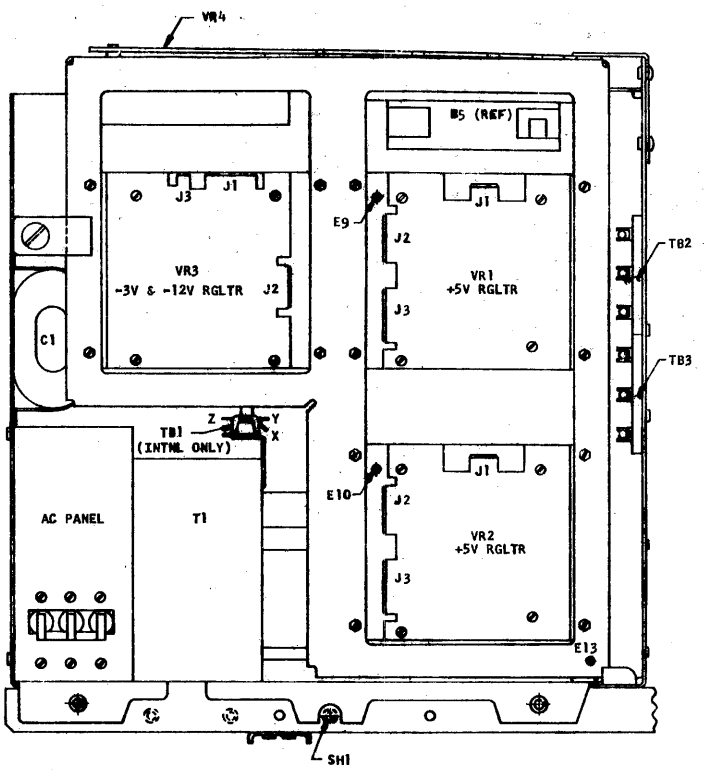
Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE WIRING SCHEMATIC, POWER SUPPLY (DC SECTION)
SYSTEM 891
DRAWN R. BELVILLE 10-16-79
CHECKED R & G 11-1-79
APPROVED
RELEASED
DWG. NO. 2770 4204
REV LETTER F
PAGE 4 OF 5

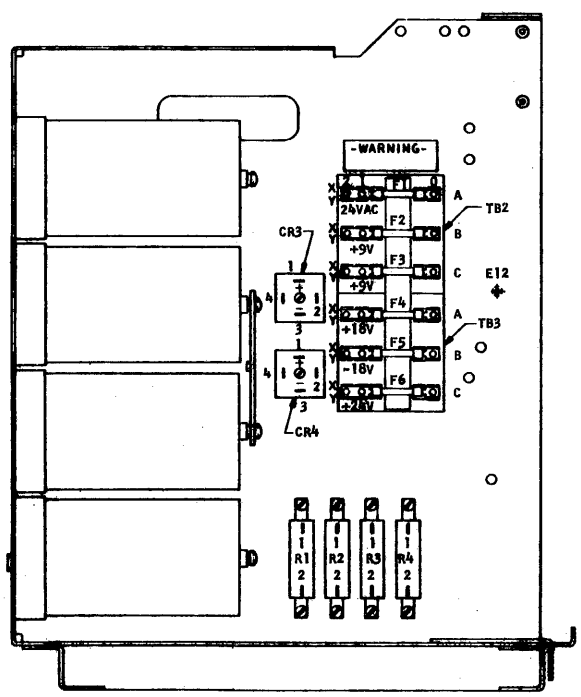
FORM PLY 9 PR



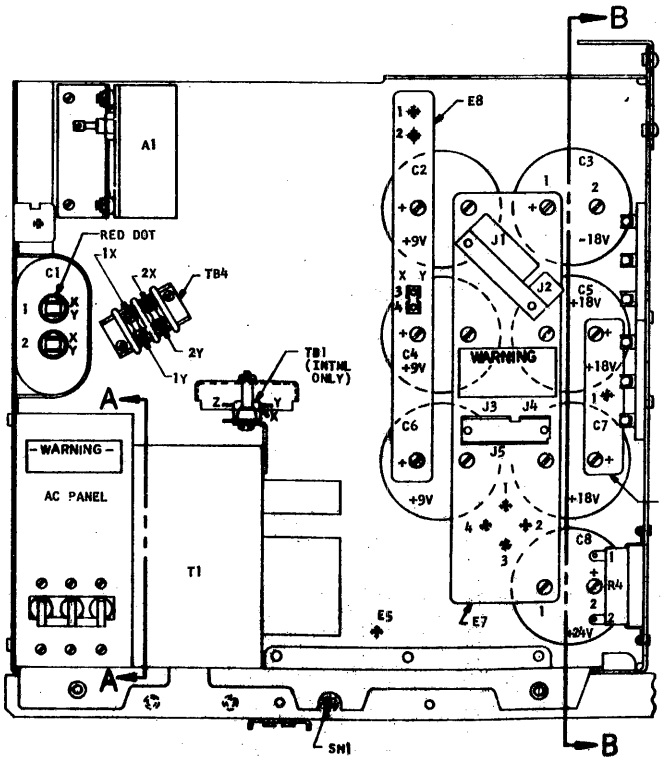
TOP VIEW WITH RGTLR FRAME

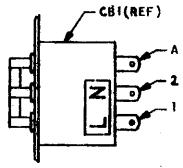


REAR VIEW WITH RGLTR FRAME

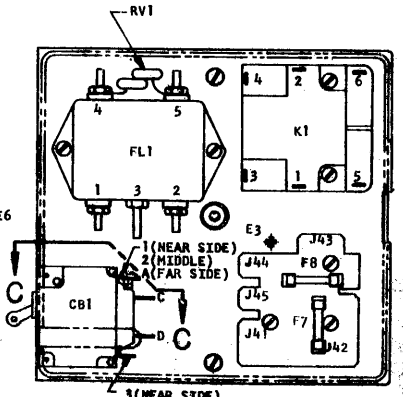


VIEW B-B





VIEW C-C



VIEW A-A
AC DISTRIBUTION PANEL

REAR VIEW WITHOUT RGLTR FRAME

DWG. NO. 2770 4204
PAGE 5 of 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S.A. AMERICA

TITLE WIRING SCHEMATIC, POWER SUPPLY (VISUAL AIDS)
SYSTEM B91
DRAWN R. BELVILLE
CHECKED R.E.G. 11-1-79
APPROVED
REV LETTER F
DWG. NO. 2770 4204
PAGE 5 OF 5

Burroughs Corporation PLYMOUTH PLANT PLYMOUTH, MICHIGAN

PROPRIETARY TO BURROUGHS CORP. — NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

DWG. NO. 2770 7116 A
SHEET 1 OF 3

DSGN OR ENGR	DATE	CHECKED	DATE	APPROVED	DATE
SZCZUR	3-27-80	GESSLER	7-28-80	RJT	5 AUG '80
LABORATORY	DATE	COMPONENTS	DATE	CLASS CODE	REV. DATE
				4-0205	

TITLE: INSTALLATION INSTRUCTION FREE STDG. DISK HARNESS

RELEASED ER 63433 A

DWG. NO. 2770 7116

TITLE:

INSTALLATION INSTRUCTIONS FOR FREE STANDING DISK HARNESS.

REFERENCE DOCUMENTS:

CARD LOCATION DIAGRAMS FOR

2769 9800 B91 3/6 DISK 2 MHZ
2770 1747 B91 CARTRIDGE DISK 2 MHZ
2770 1887 BD2-10 PROCESSOR 1MB/BSM

SCOPE:

THIS DOCUMENT IS PROVIDED TO DETAIL SPECIFIC PROCEDURES WHICH MUST BE FOLLOWED WHEN INSTALLING A 1886 0858 FREE STANDING DISK CABLE IN A PROCESSOR. IT EXPLAINS PROCEDURES NECESSARY TO PROPERLY INSTALL AND ROUTE THE DISK CABLE WITHIN THE B91 CABINET.

READ PROCEDURE COMPLETELY THROUGH PRIOR TO INSTALLATION.

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DWG. NO. 2770 7116 A
SHEET 2 OF 3

DSGN OR ENGR	DATE	CHECKED	DATE	APPROVED	DATE
SZCZUR	3-27-80	GESSLER	7-28-80		
LABORATORY	DATE	COMPONENTS	DATE	CLASS CODE	REV. DATE
				4-0205	

TITLE: INSTALLATION INSTRUCTIONS FREE STDG. DISK HARNESS

RELEASED ER 63433

DWG. NO. 2770 7116

PROCEDURE:

1. SWITCH OFF CIRCUIT BREAKER.
2. DISCONNECT EXTERNAL DATA COMM. CONNECTORS FROM MACHINE IF PRESENT.(SEE FIGURE 1)
3. REMOVE CABINET BACK COVER.
4. REMOVE DATA COMM. HOUSING 2769 5594 BY REMOVING FOUR SCREWS 1506 6988 (SEE FIGURE 1).
5. INSTALL 1826 0547 HOLE LINER MATERIAL AROUND LEFT MOST VACANT OPENING IN THE LOWER SECTION OF THE DATA COMM BRACKET 2769 5410. (APPROXIMATELY 5 INCHES IN LENGTH). (SEE FIGURE 1).
6. ROUTE HOST END OF DISK CABLE 1886 0858 THROUGH OPENING IN DATA COMM. BRACKET (REF. STEP 5). EXERCISE EXTREME CARE WHILE ROUTING UNJACKETED PORTION OF CABLE PAST DATA COMM. BRACKET OPENING. LEAVE 1" OF JACKETED PORTION OF CABLE TOWARD INSIDE OF MACHINE BEYOND DATA COMM. BRACKET (SEE FIGURE 1).
7. INSTALL CONNECTOR SHROUD 2850 1468 ON THE I/O SECTION (B-LEVEL) OF THE B91 MOTHERBOARD WHERE THE HOST CONTROLLER 2 (TWO) BOARD WILL BE LOCATED. (SEE FIGURE 1).
8. CONNECT THE HOST END (2850 4462 CONNECTOR ASSY.) OF THE DISK CABLE TO THE I/O CONNECTION WHICH IS THE SHROUD CONNECTOR 2850 1468. (REF. STEP 7) (SEE FIGURE 1).
9. BY USE OF NINE 1091 8605 TIE STRAPS, ROUTE THE DISK CABLE AROUND THE MOTHERBOARD. ALONG THE BOTTOM OF THE MOTHERBOARD BEZEL 2769 0122 TOWARDS THE FRONT OF THE MACHINE, UP THE FRONT OF THE BEZEL, AND BACK TO THE MAIN HARNESS (SEE FIGURE 1).
10. BY USE OF FIVE 1523 9205 TIE STRAPS, ROUTE THE DISK CABLE ALONG THE SERVICE LOOP OF THE MAIN HARNESS. FROM THENCE UP TO AND INTO THE ROUTING CHANNEL OF THE B91 CABINET. FOLLOW CHANNEL TOWARDS THE LEFT SIDE OF THE MACHINE. (SEE FIGURE 1).
11. UPON REACHING THE MAIN FRAME ASSEMBLY, ROUTE THE DISK CABLE ALONG UPPER HORIZONTAL MEMBER TO THE RIGHT FRONT UPRIGHT, WHICH HAS POKE HOLES TO RECEIVE SNAP-IN TIE STRAPS 1472 1955, NOW DOWN ALONG THE UPRIGHT FRAME MEMBER, TO THE BOTTOM HORIZONTAL FRAME MEMBER.
12. RECHECK ONCE MORE THAT ONE INCH OF CABLE SLEEVING PROTRUDES BEYOND DATA COMM. BRACKET. NOW REPLACE DATA COMM. HOUSING 2769 5594 SECURING WITH SCREWS 1506 6988.
13. SECURE THE DISK CABLE TO THE LOWER ANGLE BRACE (PART OF MAIN FRAME ASSEMBLY) BY MEANS OF STRAIN RELIEF CABLE CLAMP 1473 2754 AND TWO SCREWS 1256 0843. CHECK ONCE MORE FOR THE ONE INCH OF SLEEVING PAST THE PLATE 2769 5410. (REF. STEP 6 & 12).
14. INSTALL CABINET BACK COVER.
15. RE-CONNECT EXTERNAL DATA COMM. CONNECTORS IF PRESENT.

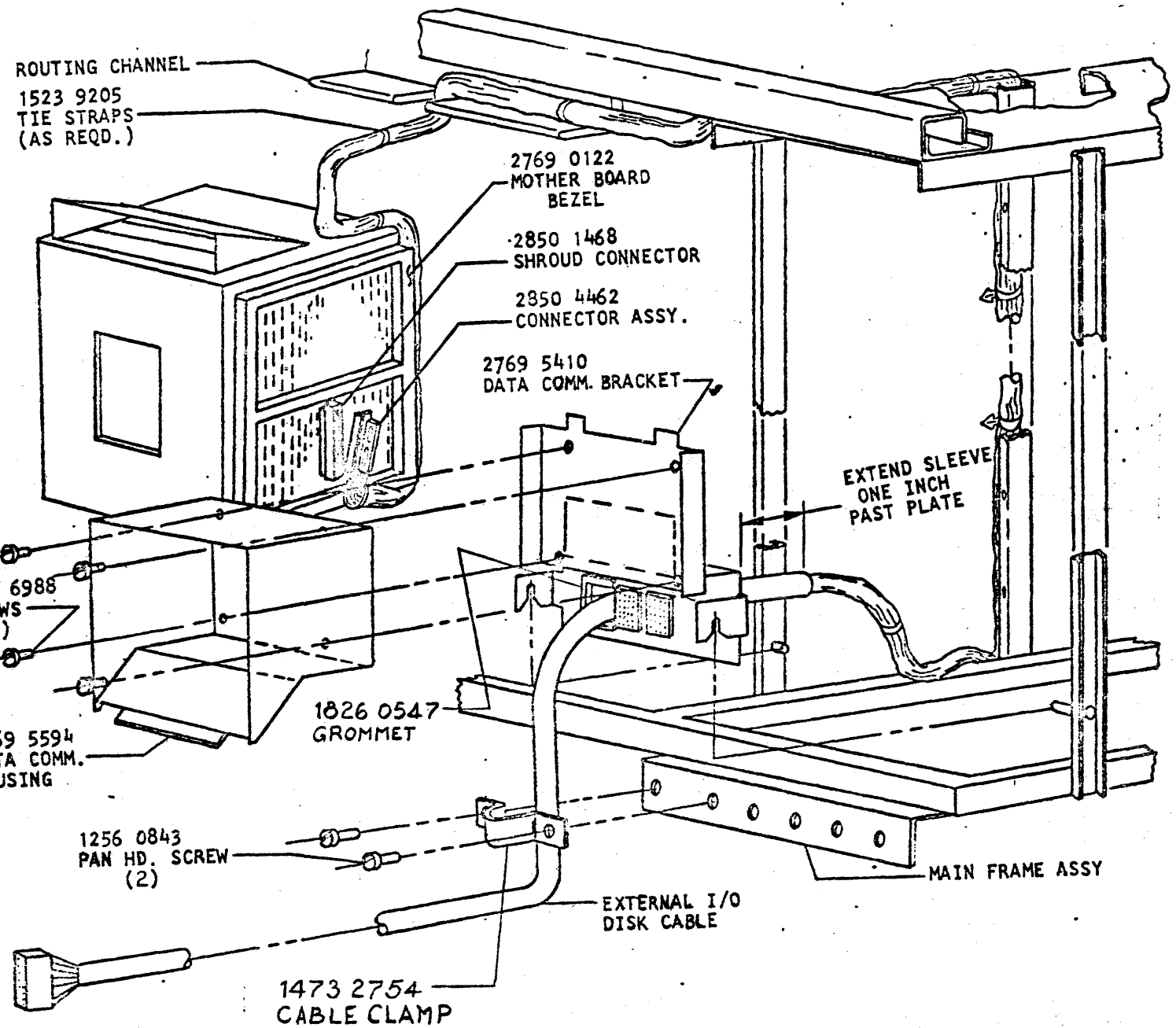


FIGURE 1

SHEET 3 OF 3

DWG. NO. 2770 7116

Burroughs Corporation PLYMOUTH PLANT PLYMOUTH, MICHIGAN

PROPRIETARY TO BURROUGHS CORP. — NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

LABORATORY	DESIGN ENGR	DATE	CHECKED	DATE	APPROVED	DATE
COMPONENTS	SZCZUR	3-27-80	GESSLER	7-28-80		
CLASS CODE	4-0205					
REV. DATE						
RELEASED	ER 63433					

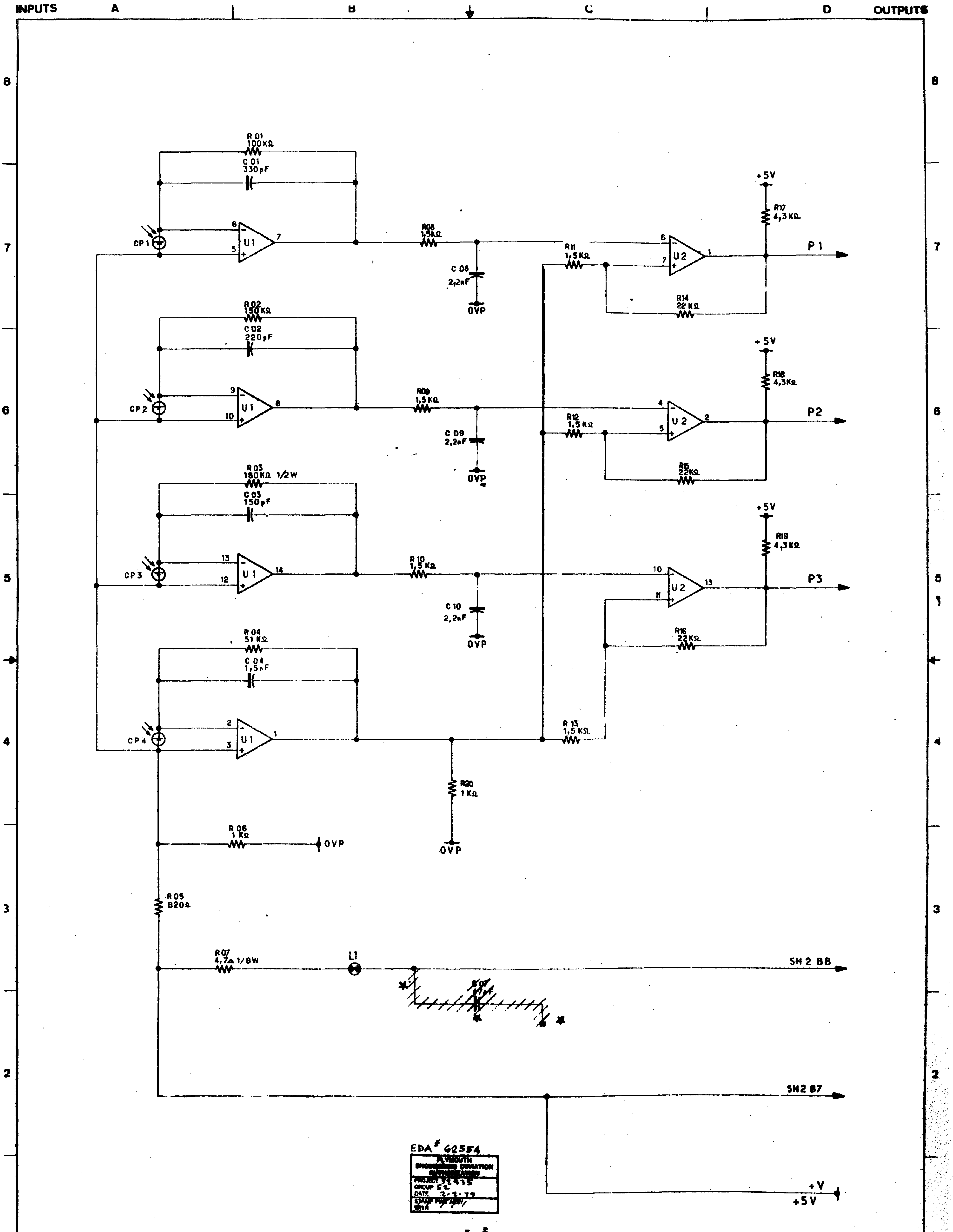
DWG. NO. 2770 7116 A

SHEET 3 OF 3

TITLE INSTALLATION INST. FREE STDG. DISK HARNESS

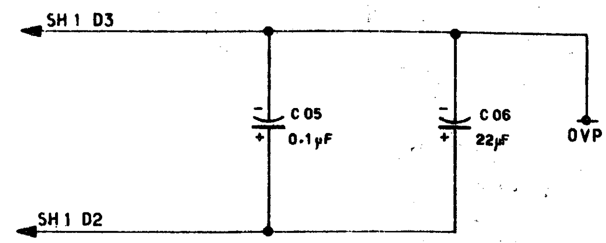
FORM PLY 116-R

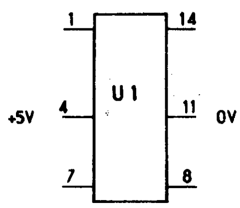
J&H PRODUCTS 1M 8-78 69040

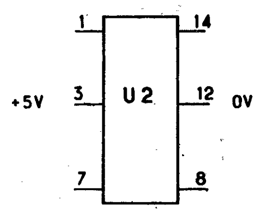


PAGE	1 of 2
DRAWING No	1251 1184
REDESIGNED	ECN 10078 B
MFG	ER 10001
RELEASED	APRIL 15, 77
	Burroughs — Terminal Systems Group, S.A. Burroughs France
DOC TYPE	WD
DSGN CONT	019
SHEET	1 of 2
DRAWN	DELETAIN 08.77
CHECKED	VRAY 08.77
	GBB 08.77
APPROVED	CESTRIERES 08.77
TITLE	TRANSDUCER AMPL
CLASS CODE	2.9520
UNIT	PM 131 PM 132
	D
DWG No	1251 1184
REV	B

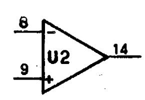
INPUTS A B C D OUTPUTS







SPARE GATES



NOTES

UNLESS OTHERWISE SPECIFIED ALL RESISTORS VALUES ARE IN OHMS; 0.25W; ±5%

I.C

U 1	LM 324	1269	7207
U 2	LM 339	2118	8297

CAPACITORS

C01	330pF	CERAMIC	2300	5515
C 02	220pF	CERAMIC	1269	5383
C 03	150pF	CERAMIC	1269	5367
C 04	1,5nF	CERAMIC	2300	5598
C 05	0,1µF	CERAMIC	2300	5879
C 06	22µF	TANTALUM	1267	9213
L ★ ~~C07~~ [illegible] ★				
C08	2,2nF	CERAMIC	2300	5614
C09	2,2nF	CERAMIC	2300	5614
C10	2,2nF	CERAMIC	2300	5614

RESISTORS

R 01	100KΩ	1/4W	5%	1268	1797
R 02	150KΩ	1/4W	5%	1268	1839
R 03	180KΩ	1/2W	5%	1268	2860
R 04	51KΩ	1/4W	5%	1268	1722
R 05	820	1/4 W	5%	1268	1292
R06	1 KΩ	1/4 W	5%	1268	1318
R07	4,7Ω	1/8 W	5%	1268	5434
R08	1,5KΩ	1/4 W	5%	1268	1359
R 09	1,5 KΩ	1/4 W	5%	1268	1359
R 10	1,5KΩ	1/4 W	5%	1268	1359
R 11	1,5 KΩ	1/4 W	5%	1268	1359
R 12	1,5KΩ	1/4W	5%	1268	1359
R 13	1,5KΩ	1/4 W	5%	1268	1359
R 14	22K Ω	1/4 W	5%	1268	1631
R 15	22KΩ	1/4 W	5%	1268	1631
R 16	22KΩ	1/4 W	5%	1268	1631
R 17	4,3KΩ	1/4 W	5%	1268	1466
R 18	4,3KΩ	1/4 W	5%	1268	1466
R 19	4,3KΩ	1/4 W	5%	1268	1466
R 20	1KΩ	1/4 W	5%	1268	1318

PHOTO-VOLTAIC CELLS

CP 1	1251	0632
CP 2	1251	0632
CP 3	1251	0632
CP 4	1251	0632

LAMP

L1	1251	1838

★ EDA# 62554

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 52935
GROUP 52
DATE 2-2-79
STAMP PWB ASSY WITH 71

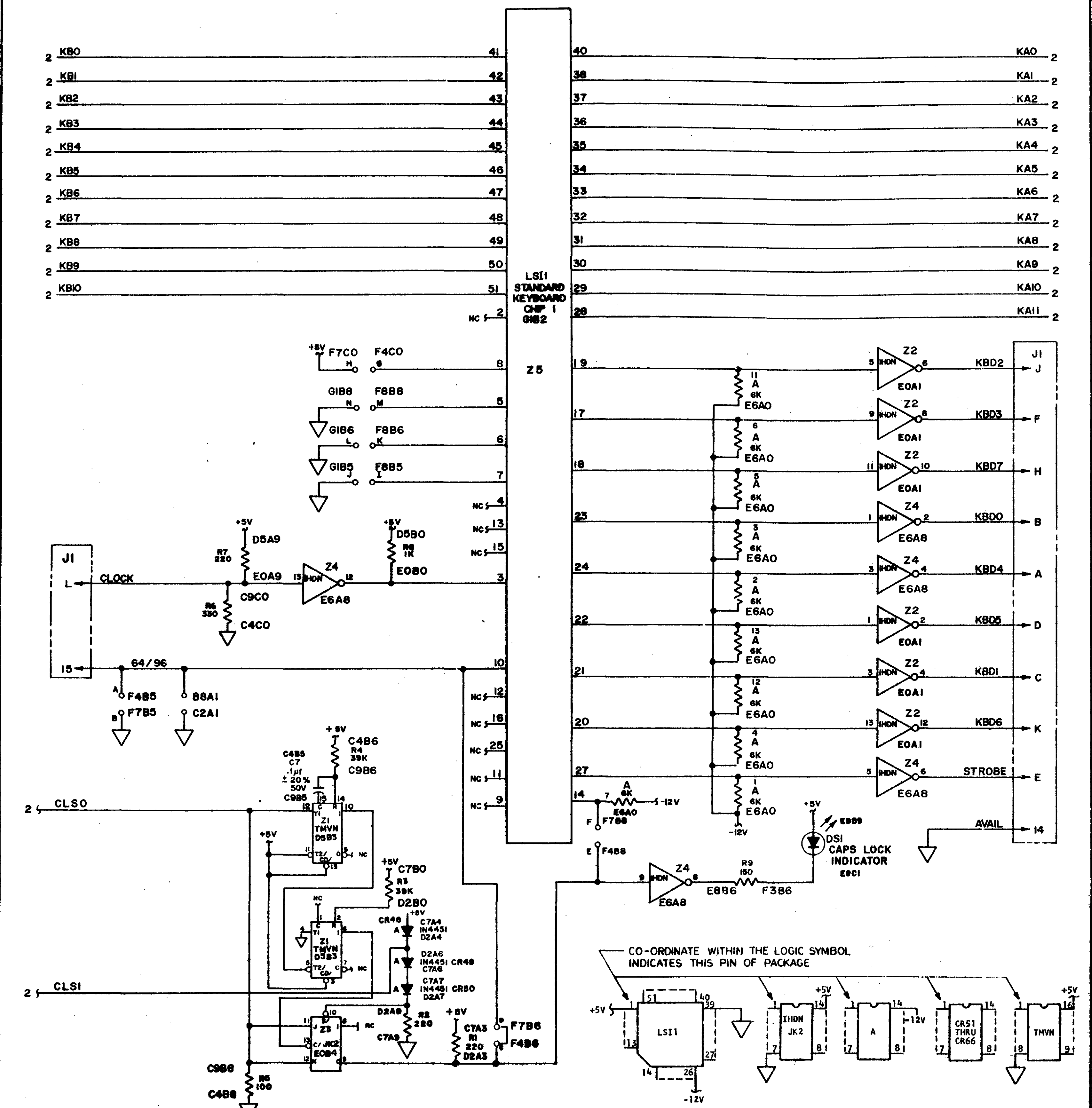
PAGE 2 of 2 | DRAWING No. 1251 1184

REDESIGNED | ECN 0078 B | ER 10001 | RELEASED APRIL 15, 77

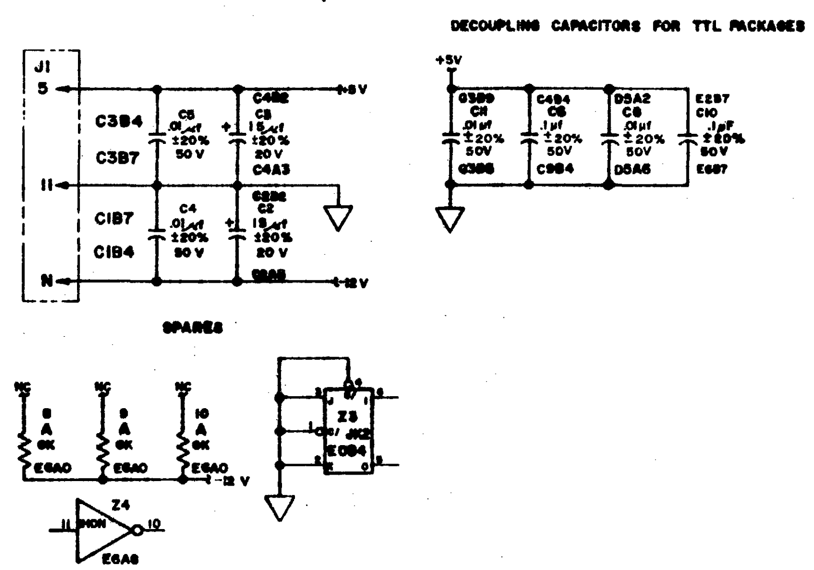
Burroughs
TERMINAL SYSTEMS GROUP
S A BURROUGHS FRANCE
PANTIN FRANCE

DOC TYPE WD	DRAWN DELETAIN	DATE 08.77	TITLE TRANSDUCER AMPL	CLASS CODE 2.9520
DESGN CONT 019	CHECKED VRAY	DATE 08.77	UNIT PM 131 / PM 132	
SHEET 2 of 2	DSGN OR ENGR GBB	DATE 08.77		
	APPROVED DESTRIERES	DATE 08.77	DWG D — DWG NO 1251 1184	REV B

A B C D



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS



NOTES:

1. FOR ASSEMBLIES SEE:

WITHOUT SWITCHES PART NO.	REV. LEVEL	WITH SWITCHES PART NO.	REV. LEVEL
2768 0354	C	2768 0362(24PK)	D

2. CODES USED TO DENOTE COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S
THMN - 2107 6302
IHDN - 1674 4963
CR - 1527 5290
LSI1 - 2571 0278
JK2 - 1472 7721

RESISTOR PKG.
A - 2472 8008

DIODES
A - 1471 4661
B - 1471 4737

INDICATORS
DS1 & DS2 - 2472 7356
DS3 THRU DS51 - 2571 0377

SWITCHES

S1 THRU S40, S42 THRU S63, S65 THRU S69, S72 THRU S84, S88 THRU S91, S97 THRU S107, S112 THRU S114, S118, & S120 - 2769 8208
S41, S71, S86, S94, S95, S109, S115, & S117 - 2769 8216
S64, S70, S85, S92, S93, S96, S108, & S116 - 2769 8224
S87 & S111 - 2769 8232
S110 - 2769 8240
S119 - 1535 9367
S121 - 2769 8257

3. S62 OUTPUT CODES ARE DEPENDENT UPON JUMPER-DIODE CONFIGURATION AS DEFINED BY P/L. OUTPUT CODE/JUMPER-DIODE OPTIONS SHOWN BELOW.

KEYBOARD STYLE	S62 OUTPUT CODE		REMOVE	INSERT
	SHIFTED	UNSHIFTED		
VERSION 1c THRU 7c, 9c&10c NORMAL	7/15	5/15	CR58 PIN 9 JUMPER Q TO S	CR57 PIN 9 JUMPER S TO R
VERSION 8c SPECIAL	0/4	0/3	CR57 PIN 9 JUMPER S TO R	CR58 PIN 9 JUMPER Q TO S

4. DIODE PACKAGES CR47, CR57, CR58, & CR66 ARE IN PROGRAMMABLE SOCKETS.

5. SWITCHES SHOWN IN DASHED LINES ARE NOT PART OF ASSEMBLY 2768 0362. THEY ARE SHOWN FOR REFERENCE ONLY.

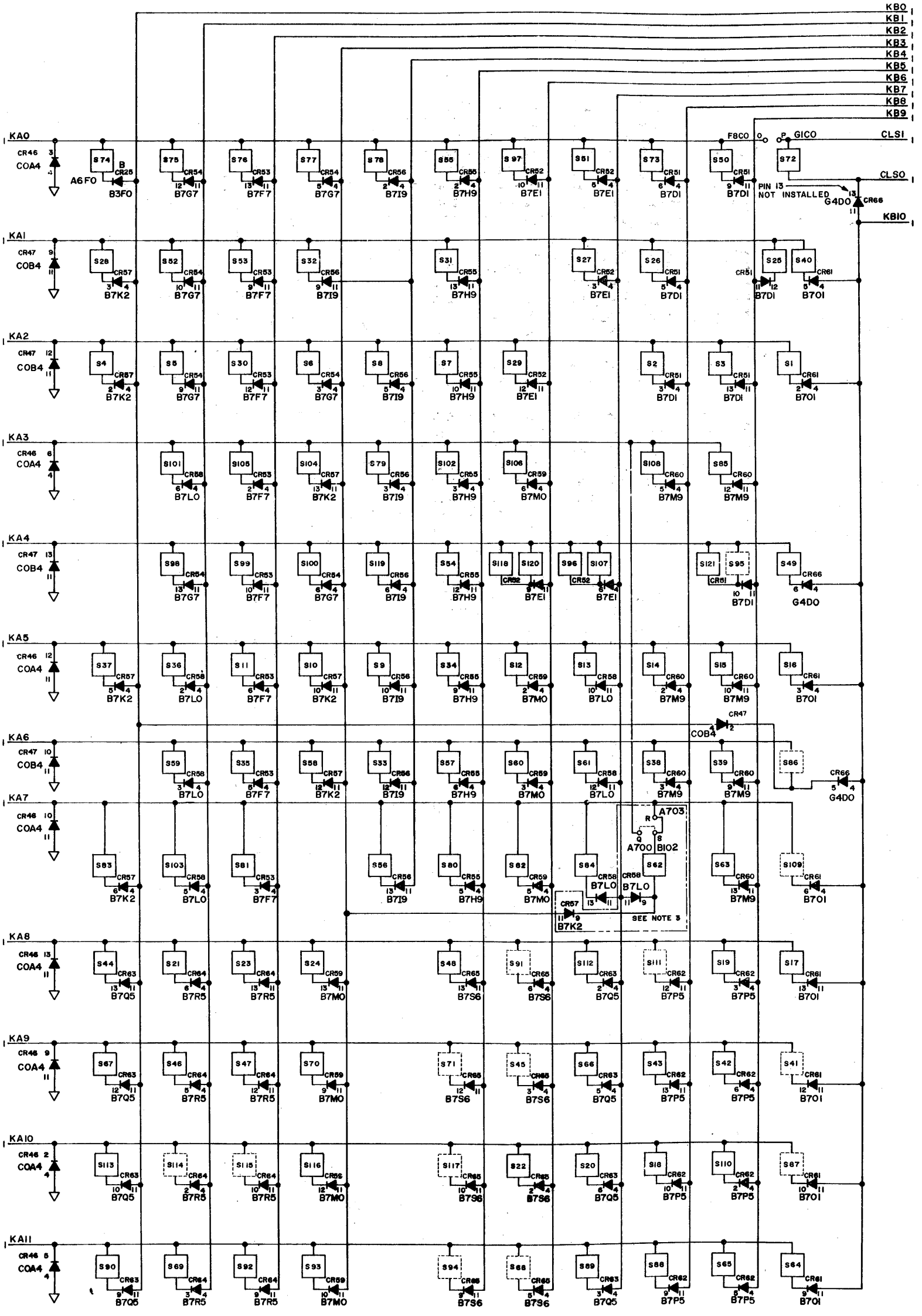
UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS ±5%, 1/4W
ALL RESISTOR PKG RESISTANCE VALUES ARE IN OHMS ±2%, 1/8W

PAGE	DWG. NO.	REV	
1 OF 3	2768 0479	A	RELEASED 4-27-79
		B	ER 62716 ECN 62841 PAGE 1 AFFECTED
		C	ECN 63241 PAGE 1 AFFECTED

C.C. 2-95202

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

TITLE: SCHEMATIC, PWB, RS KEYBOARD, (CAPS LOCK)
SYSTEM
DRAWN E. KARAS 5-16-79
CHECKED 5-16-79
APPROVED 5-18-79
RELEASED 4-27-79
DWG. NO. 2768 0479
REV LETTER C
PAGE 1 OF 3



C.P. CLARE & CO. P/N 900037

DWG. NO. 2768 0479 PAGE 2 OF 3

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE SCHEMATIC, PWB, RS KEYBOARD, (CAPS LOCK)
SYSTEM
DWG. NO. 2768 0479
DRAWN E. KARAS 5-16-79
CHECKED 5-16-79
APPROVED 5-18-79
RELEASED 4-27-79
REV LETTER C
PAGE 2 OF 3
FORM PLY 47 PR 5-84-79

SWITCH LOCATION GUIDE

L.S.I.C. HEXIDECIMAL OUTPUT CODES

15/14 SI21 15/14

SHIFTED OUTPUT CODE
SWITCH NO.
UNSHIFTED OUTPUT CODE

12/0	12/1	12/2	12/3	12/4	12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14	12/15
S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16
14/0	14/1	14/2	14/3	14/4	14/5	14/6	14/7	14/8	14/9	14/10	14/11	14/12	14/13	14/14	14/15
8/0	2/1	2/2	2/3	2/4	2/5	2/6	2/7	2/8	2/9	5/15	3/13	5/14	4/0	8/14	8/10
S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40
8/1	3/1	3/2	3/3	3/4	3/5	3/6	3/7	3/8	3/9	3/0	2/13	7/14	6/0	10/14	8/10
8/9	5/1	5/7	4/5	5/2	5/4	5/9	5/5	4/9	4/15	5/0	5/13	2/11	SEE	8/8	
S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60	S61	NOTE 3	S63	
8/9	7/1	7/7	6/5	7/2	7/4	7/9	7/5	6/9	6/15	17/0	7/13	3/11	S62	8/8	
CAPS LOCK S72 CAPS LOCK	4/1	5/3	4/4	4/6	4/7	4/8	4/10	4/11	4/12	5/12	5/11	2/10	10/0		
	S73	S74	S75	S76	S77	S78	S79	S80	S81	S82	S83	S84	S85	S86	
	6/1	7/3	6/4	6/6	6/7	6/8	6/10	6/11	6/12	7/12	7/11	3/10	10/3		
S95	SHIFT S96 SHIFT	5/10	5/8	4/3	5/6	4/2	4/14	4/13	3/12	3/14	3/15	SHIFT	10/7		
		S97	S98	S99	S100	S101	S102	S103	S104	S105	S106	S107	S108	S109	
		7/10	7/8	6/3	7/6	6/2	6/14	6/13	2/12	2/14	2/15	SHIFT	10/1		

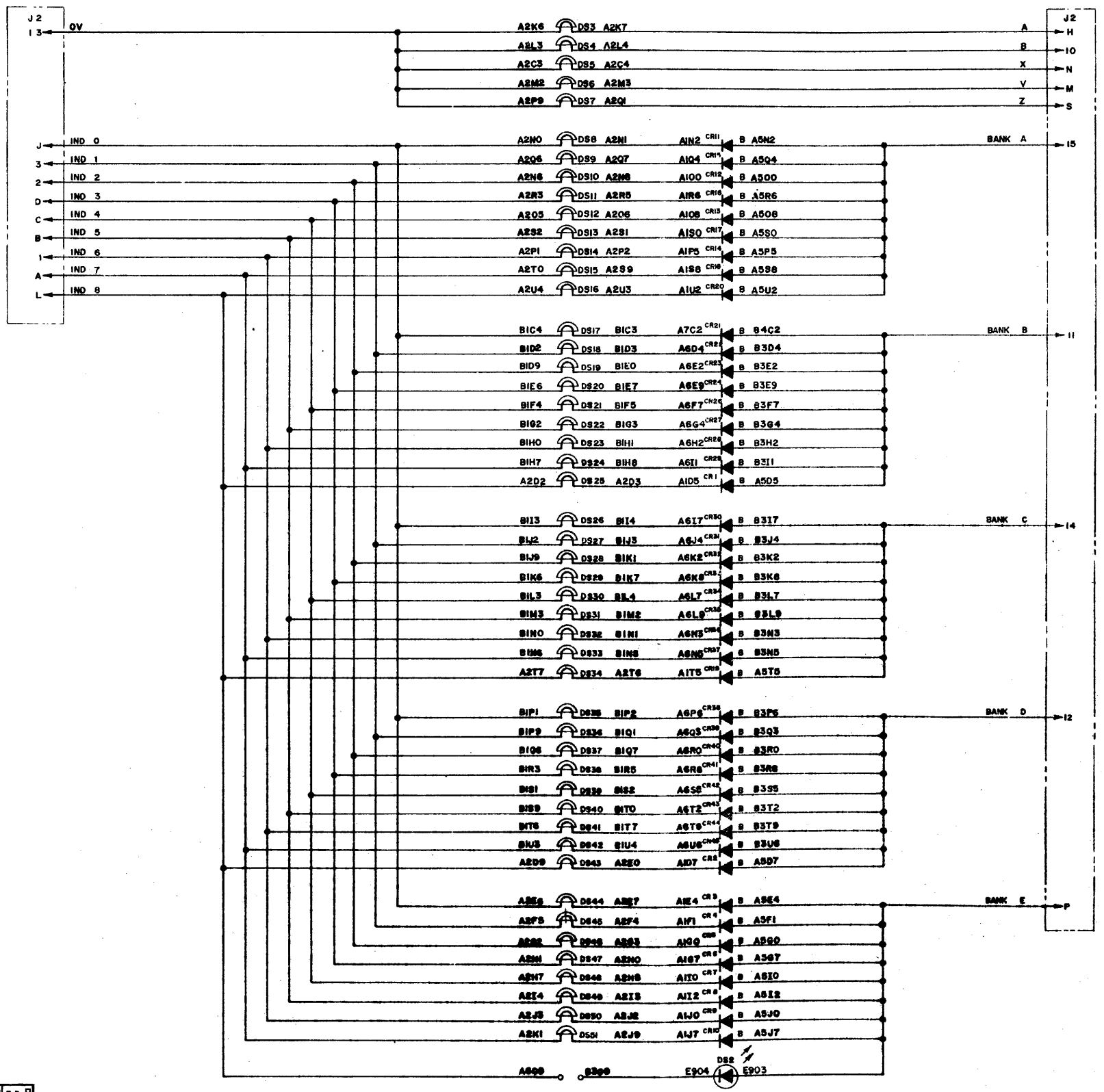
REPEAT SI18 REPEAT | 2/0 SI19 2/0 | REPEAT SI20 REPEAT

13/0	13/1	13/2	13/3	13/4	13/5	13/6	13/7
SI7	SI8	SI9	S20	S21	S22	S23	S24
15/0	15/1	15/2	15/3	15/4	15/5	15/6	15/7
S41	9/7 S42 11/7	9/8 S43 11/8	9/9 S44 11/9	S45	8/11 S46 10/11	9/12 S47 11/12	9/14 S48 11/14
9/15 S64 11/15	9/4 S65 11/4	9/5 S66 11/5	9/6 S67 11/6	S68	9/13 S69 11/13	10/0 S70 10/0	S71
S87	9/1 S88 11/1	9/2 S89 11/2	9/3 S90 11/3	S91	10/1 S92 10/1	10/7 S93 10/7	S94
9/0 SI10 11/0	SI11	9/10 SI12 11/10	9/11 SI13 11/11	SI14	SI15	10/3 SI16 10/3	SI17

DS1 CAPS LOCK INDICATOR

IN "CAPS LOCK MODE" THESE KEYS EMIT SHIFTED CODE ONLY.

DS2 DUAL ALPHA INDICATOR

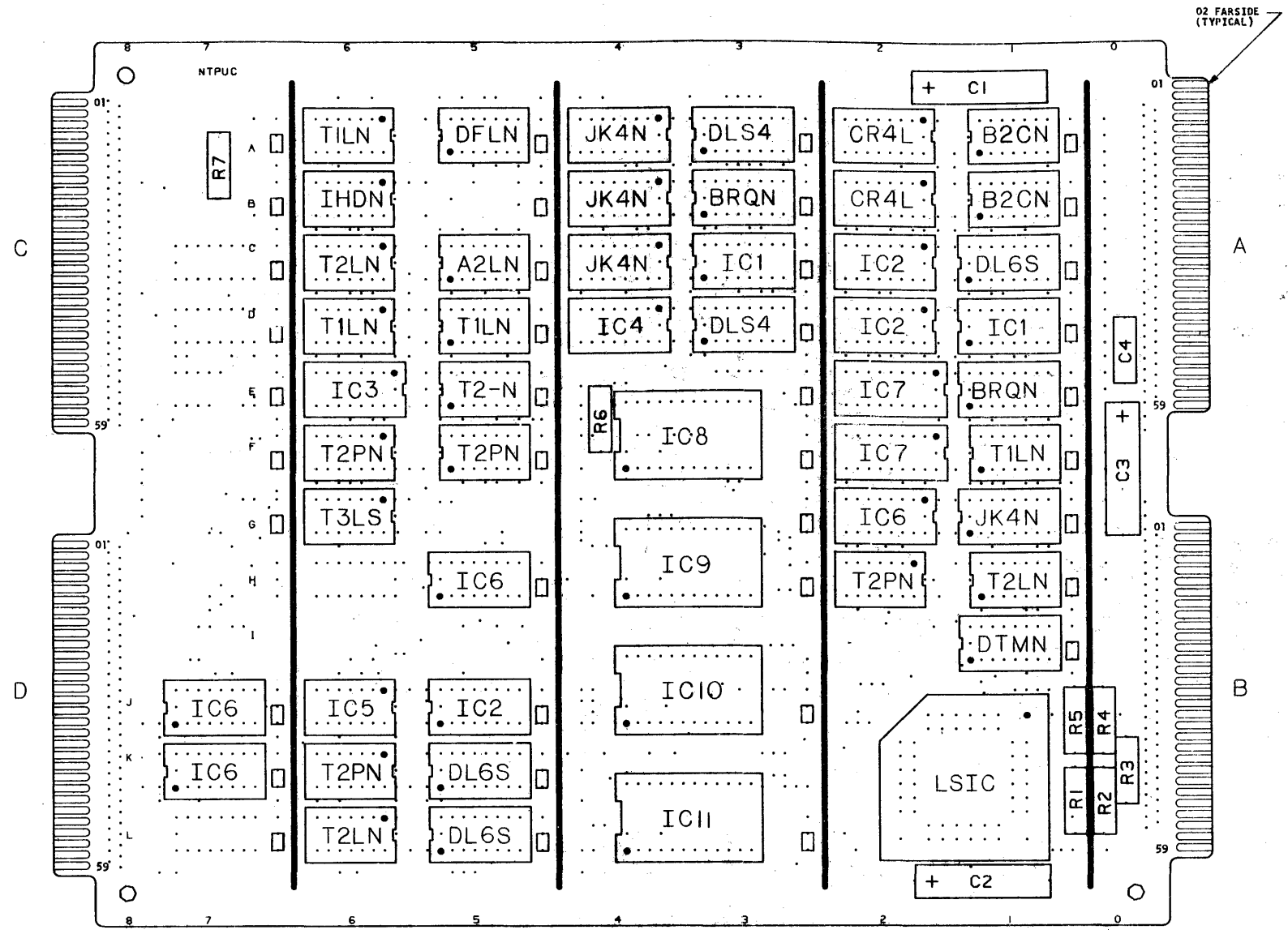


C.P. CLARE & CO. P/N 900037

DWG. NO. 2768 0479 PAGE 3 OF 3

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE SCHEMATIC, PWB, RS KEYBOARD, (CAPS LOCK)
SYSTEM
DRAWN E. KARAS 5-16-79
CHECKED 5-16-79
APPROVED 5-18-79
RELEASED 4-27-79
DWG. NO. 2768 0479
REV LETTER C
PAGE 3 OF 3



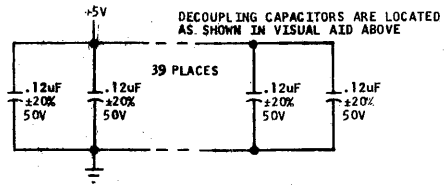
NOTE:
PIN "A" OF TWO LEAD COMPONENTS IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

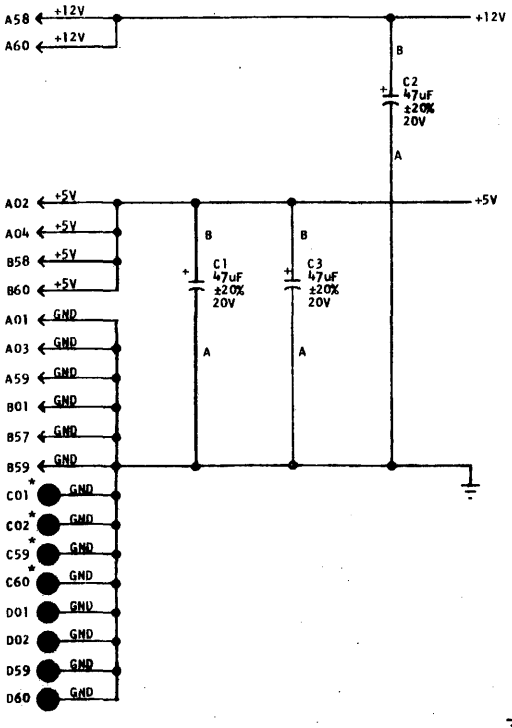
CHART 2

ROM OR PROM EQUIVALENT				
IC		IC9 (NTPU3)	IC10 (NTPU2)	IC11 (NTPU1)
ROM		2770 4527	2770 4513	2770 4501
PROM		2770 3024	2770 1432	2770 3016

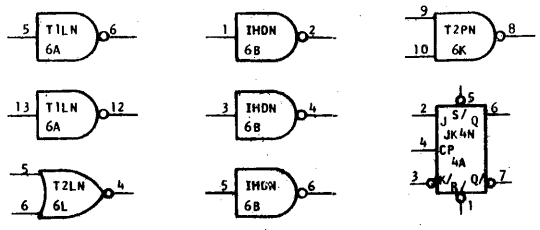
CHART 1

CHARACTER GENERATOR ROM OR PROM EQUIVALENT								
FINAL ASSEMBLY W/LSIC		2769 3688 PL (VERSION 1-10 & 13-16)	2770 6720 PL (VERSION 12)	2770 2877 PL (VERSION 17)	2769 4976 PL (VERSION 20,23)	2770 2885 PL (VERSION 21)	2770 2893 PL (VERSION 22)	2770 2901 PL (VERSION 24)
IC8	ROM	2770 6290	-	-	-	-	-	-
	PROM	2770 6175	2770 6704	2770 1697	2770 1705	2770 1713	2770 1721	2770 1739

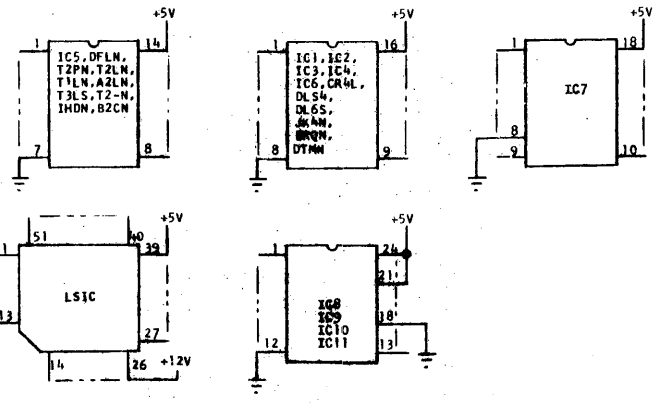




SPARES



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS



NOTES:

1. FOR ASSEMBLY SEE 2769 3670 REV K FOR FINAL ASSEMBLY SEE CHART 1
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

IC1 - 1270 8988	DFLN - 2846 6696
IC2 - 2769 1799	CR4L - 2846 6738
IC3 - 2608 6280	DLS4 - 2846 6746
IC4 - 1517 2901	DL6S - 2608 6298
IC5 - 2607 1829	JK4N - 1517 0988
IC6 - 1959 5768	T2PN - 2607 1787
IC7 - 1847 5558	T2LN - 2607 1795
IC8 - SEE CHART 1	T1LN - 2607 1803
IC9 - SEE CHART 2	A2LN - 2846 6647
IC10 - SEE CHART 2	T3LS - 2607 1811
IC11 - SEE CHART 2	T2-N - 1447 3516
DTMN - 2574 6975	IHDN - 1674 4963
LSIC - 1849 5994	B2CN - 1447 3581
	BRQN - 1270 8699

4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.
5. ALL FRONTPLANE PINS LOCATED ON THE "D" CONNECTOR MATE WITH A ROM SIMULATOR.

UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

PAGE	REV	E.R. DATE	
1 OF 5	A	ER 62134	RELEASED 8-1-78
	B	ECN 62556 2-1-79 PAGE 1 AFFECTED	2769 3662
	C	ECN 62594 3-12-79 PAGE 1 AFFECTED	
	D	ECN 62850 PAGE 1&5 AFFECTED	
	E	ECN 62926 PAGE 1 AFFECTED	
	F	ECN 62945 PAGE 1 AFFECTED	
	G	ECN 62983 PAGE 1 AFFECTED	
	H	ECN 63078 PAGE 1 AFFECTED	
	J	ECN 63241 PAGE 1 AFFECTED	
	K	ECN 63157B PAGE 1 AFFECTED	
	L	ECN 63299 PAGE 1 AFFECTED	
	M	ECN 63371 PAGE 1 AFFECTED	

Burroughs Corporation
SYSTEMS M & E GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

CC 2-9520

TITLE	SCHEMATIC, BOARD, NTPUC
SYSTEM	
DRAWN	L. OLIVER 6-15-78
CHECKED	R.A. 7-7-78
APPROVED	8-1-78
RELEASED	8-1-78
DWG. NO.	2769 3662
REV LETTER	M
PAGE	1 of 5

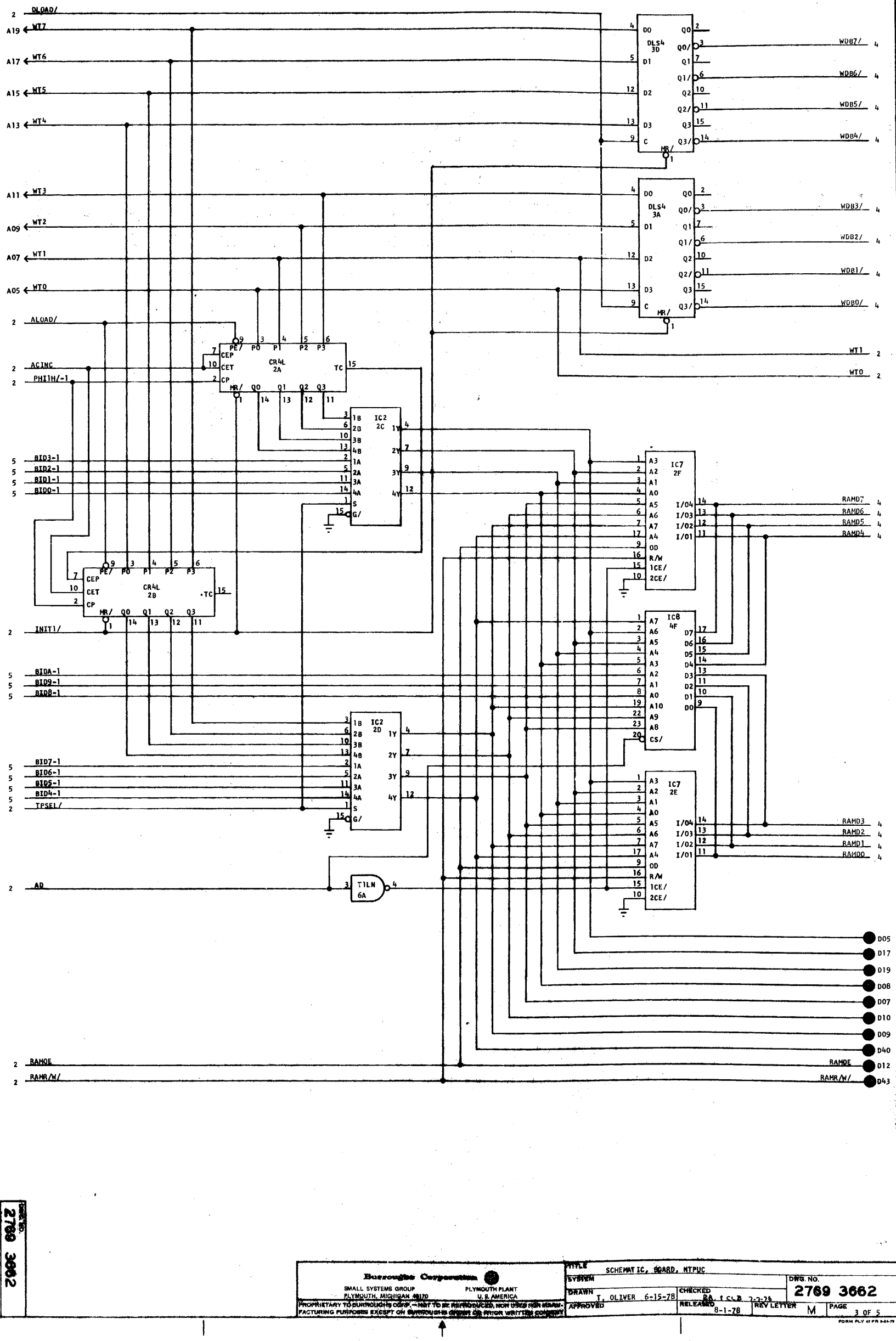
INPUT | SCHEMATIC ↓ | OUTPUT

A38 ← DIR/
A39 ← IOX
A36 ← ADDR
A40 ← CONT/
A37 ← JOX
T1LN 5D
IC4 4D
CONTL/
WRITE/
IWTE/
READ/
JWRITE/
JINTE/
JREAD/
T1LN 5D
JINTE/ 4
T2-N 5E
ENOUTB 4
T2PN 6F
T3LS 6G
T2-N 5E
IHDN 6B
FRZ/ → A41
T2PN 6F
RFRA 4
3 WT1
A2LN 5C
JK4N CP 4B
PLACF
T2LN 6C
3 WT0
A2LN 5C
JK4N CP 4C
PRICF
TPSEL/ 3
T1LN 6D
ENWDR 4
T2LN 6C
T2-N 5E
JK4N CP 4B
WDBF
T2PN 5F
T2PN 5F
ACLIC 3
PRICF
T1LN 6D
ALOAD/ 3
T2LN 6C
T1LN 6D
JK4N CP 4A
FREAOF
T2PN 5F
T2-N 5E
T1LN 5D
IC5 6J
+5V
R7 1k
IHDN 6B
T1LN 6A
REQT
REQT/ *C20
T1LN 6D
JK4N CP 4C
REQF
IHDN 6B
REQ/ → A35
A44 ← INIT
.1uF ±20% 50V
T1LN 1F
AD 3
INIT1/ 3,5
T1LN 6D
INIT1 *C18
INIT1 D06
5 SCONT
5 BIDR-1
T2PN 6K
T2LN 6L
IC3 6E
T3LS 6G
RFWB 4
RFWA 4
T1LN 6A
A2LN 5C
RFWA D11
QLOAD/ 3
5 MACN/
T2LN 1H
T1LN 1F
T2PN 6F
T2LN 6L
T2PN 6K
T1LN 6D
T2LN 6C
RAMOE 3
TPURD 4
5 WM
T2PN 6F
T2PN 2H
RAMR/W/ 3
MACH1/ D15
A2LN 5C
TPUWR/ 4
CHOCW/
5 XAD0
5 XAD1
5 XAD2
5 XAD3
5 SIOXN/
IC5 6J
IC5 6J
T3LS 6G
ENDVOUT/ 4
T2LN 6L
5 SDIR
A48 ← RAMCLK
A54 ← PHI2H/
T1LN 1F
T2PN 2H
T2LN 1H
DTMN 11
R1 51
PH2 5
R2 27
PH1 5
+12V
PH1-1/ D04
PH1-1/ *C57
T2LN 1H
ADEN 5
T2LN 1H
T2PN 2H
OEN 5
PH2/ *C58
PH2/ D14
PH2/ 5
+5V R6 1k
+5V R5 1k
ONE-1 4,5
ONE 4
PHI1H/-1 3,4
A53 ← PHI1H/
PHI2H/ 4

DWG. NO. 2769 3662
PAGE 2 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S.A.

TITLE SCHEMATIC, BOARD, NTPUC
SYSTEM
DRAWN T. OLIVER 6-15-78
CHECKED K A T C L B 7-7-78
APPROVED
RELEASED 8-1-78
REV LETTER M
DWG. NO. 2769 3662
PAGE 2 OF 5

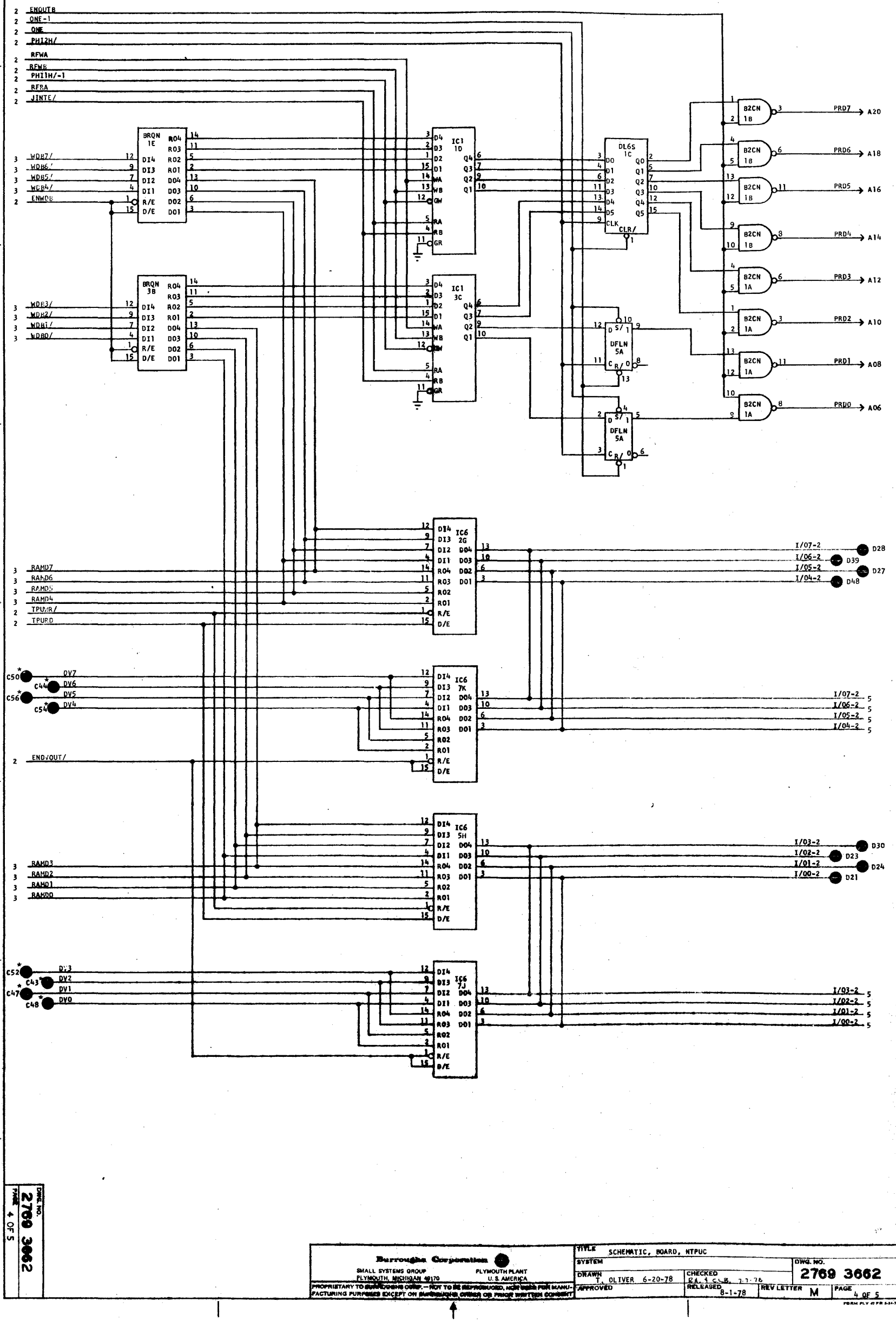


DWG. NO. 2769 3662
PAGE 3 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP — PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 — U.S.A. AMERICA

TITLE	SCHEMATIC, BOARD, MTPUC
SYSTEM	
DRAWN	T. OLIVER 6-15-78
CHECKED	RA 1 CL 7-7-78
APPROVED	
RELEASED	8-1-78
REV LETTER	M
DWG. NO.	2769 3662
PAGE	3 OF 5

FORM PLY 47 FR 3-24-78



DWG. NO. 2769 3662
PAGE 4 OF 5

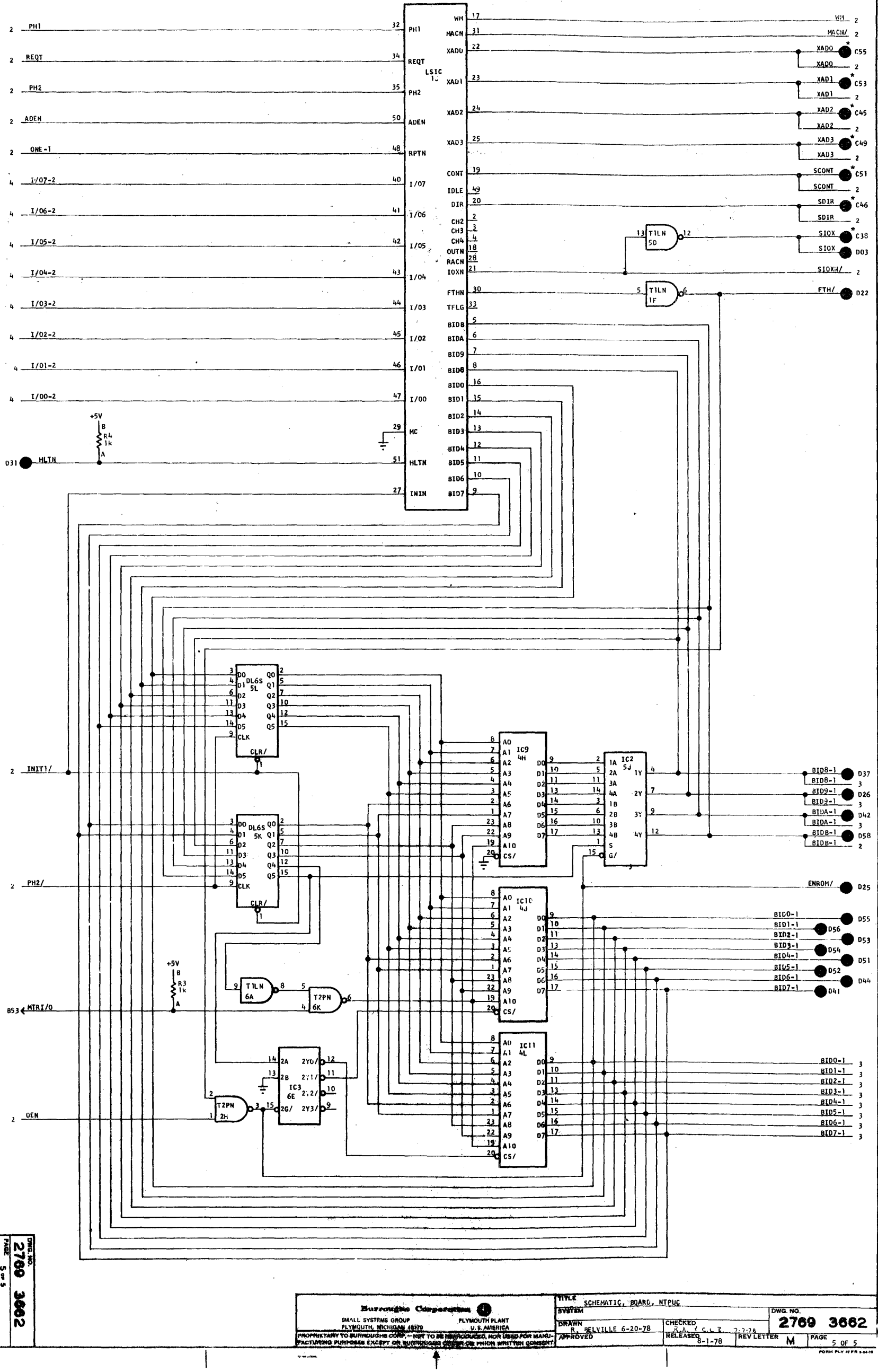
Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE	SCHEMATIC, BOARD, NTPUC		
SYSTEM		DWG. NO.	2769 3662
DRAWN	T. OLIVER 6-20-78	CHECKED	R.A. & C.B. 7-7-78
APPROVED		RELEASED	8-1-78
REV LETTER	M	PAGE	4 OF 5

INPUT

SCHEMATIC

OUTPUT



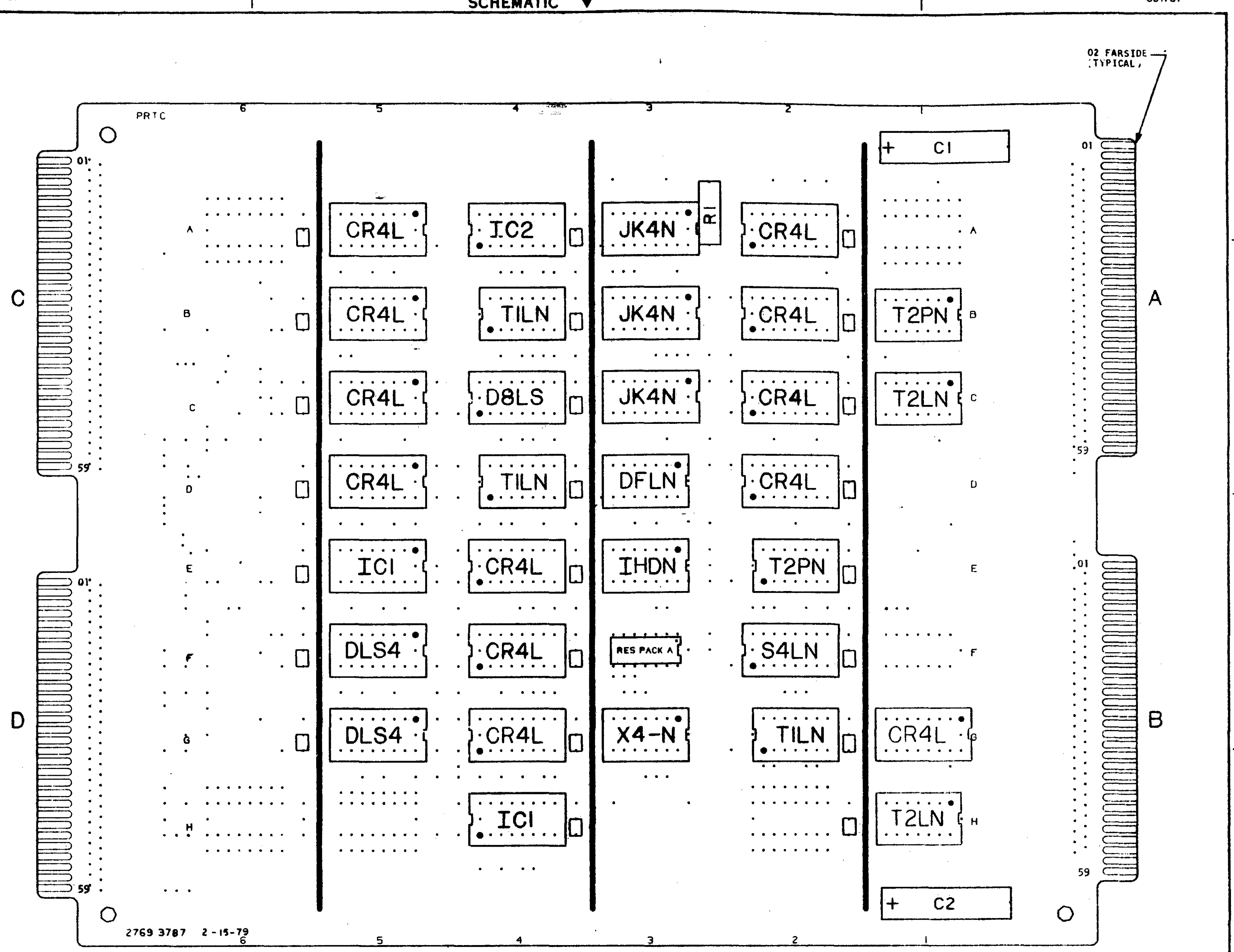
DWG. NO. 2760 3662
PAGE 5 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

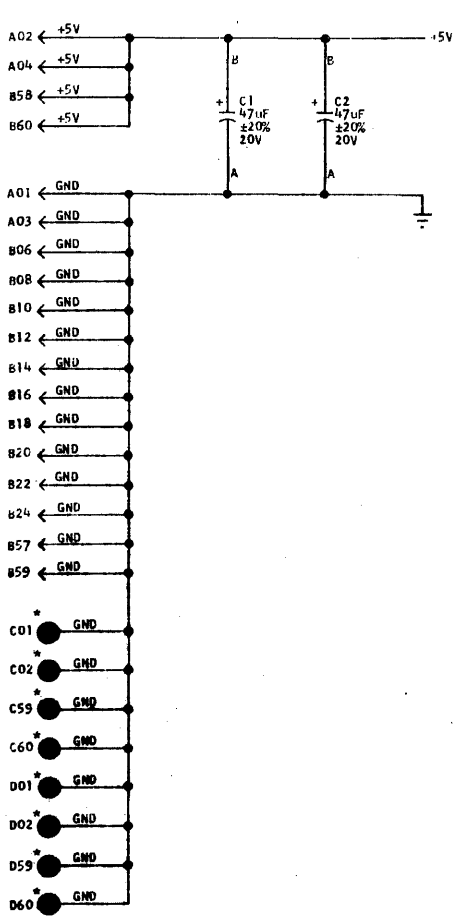
TITLE	SCHEMATIC, BOARD, NTPUC
SYSTEM	
DRAWN	R. BELVILLE 6-20-78
CHECKED	R.A.V.C.L.T. 7-7-78
APPROVED	
RELEASED	8-1-78
REV LETTER	M
DWG. NO.	2760 3662
PAGE	5 OF 5

FORM PLY 47 FR 3-24-78

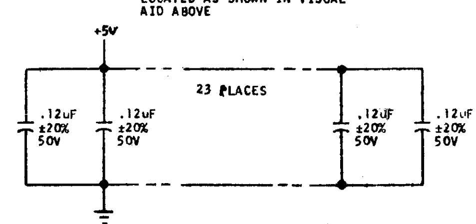
SCHEMATIC



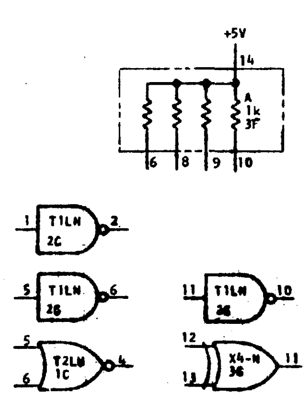
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

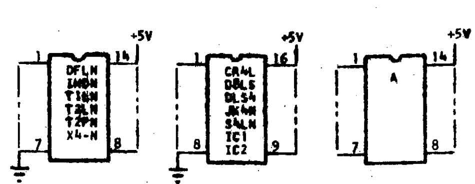


DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE



SPARES





TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

NOTES:

1. FOR ASSEMBLY SEE 2769 3787 REV D
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S		RESISTOR PKG
X4-N	1447 3698	A - 2108 4827
JK4N	1517 0988	
D8LS	2848 5761	
IHDN	1674 4963	
T2PN	2607 1787	
T2LN	2607 1795	
TILN	2607 1803	
IC1	2769 1799	
IC2	2769 3860	
DFLN	2846 6696	
S4LN	2846 6712	
CR4L	2846 6738	
DLS4	2846 6746	

4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK MUST MATE WITH FRONTPLANE PINS OF ASSEMBLIES LOCATED IN ADJACENT PWB SLOTS. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.

UNLESS OTHERWISE SPECIFIED:
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.
ALL RESISTOR VALUES ARE IN OHMS, ±5%, 1/2W

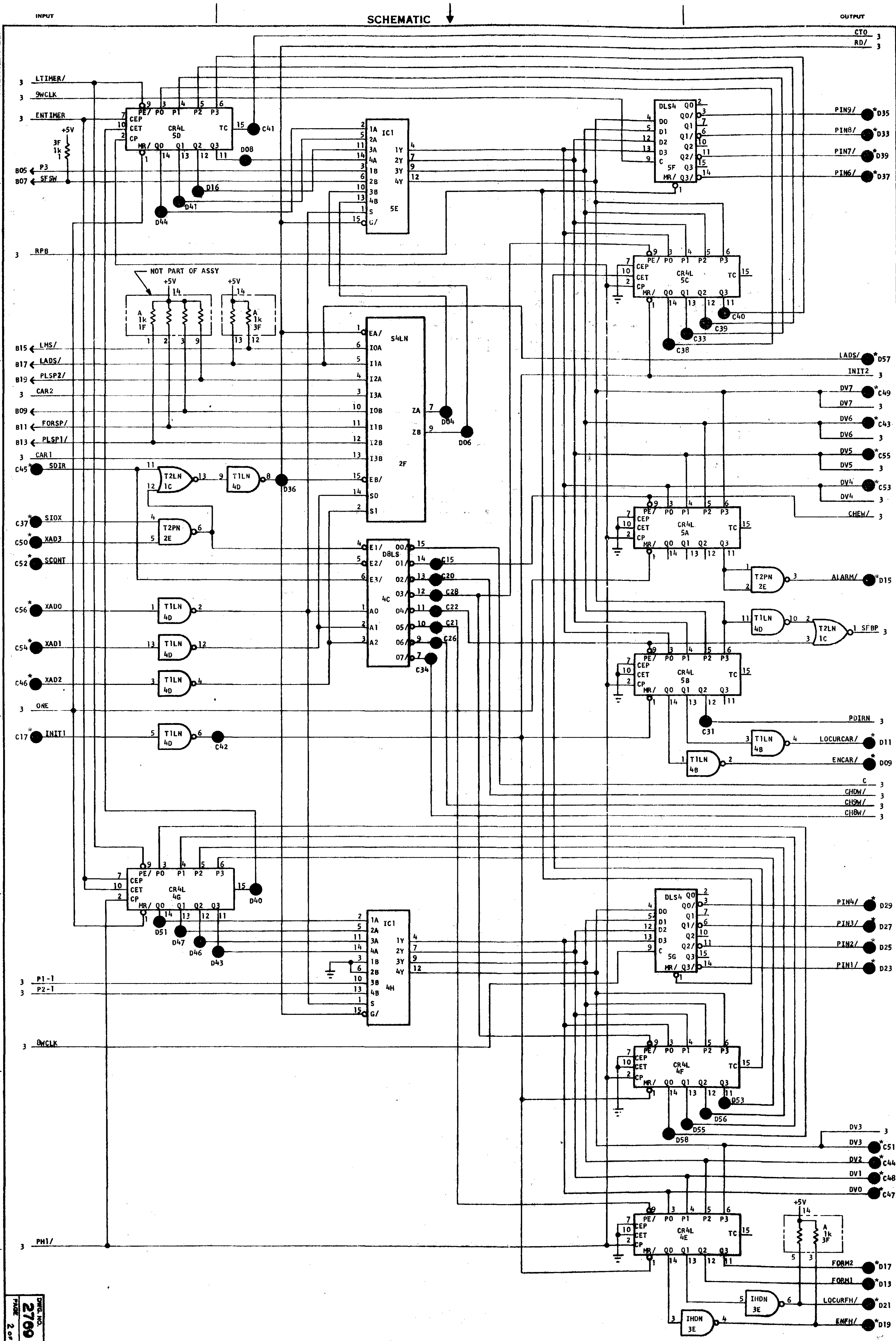
REV	
A	ER 62134
B	ECN 62527 1-18-79 SEE REWORK INSTR.
C	ECN 62526 2-15-79 SHEET 1 2 & 3 AFFECTED
D	ECN 63241 PAGE 1 AFFECTED

DWG. NO. 2769 3779 PAGE 1 of 3 RELEASED 8-1-78

CC2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

TITLE	SCHEMATIC, BOARD, PRTC
SYSTEM	
DRAWN	R. BELVILLE 6-29-78
CHECKED	J.A.M. 10-2-78
APPROVED	R. V. 11-20-78
RELEASED	8-1-78
REV LETTER	D
DWG. NO.	2769 3779
PAGE	1 OF 3

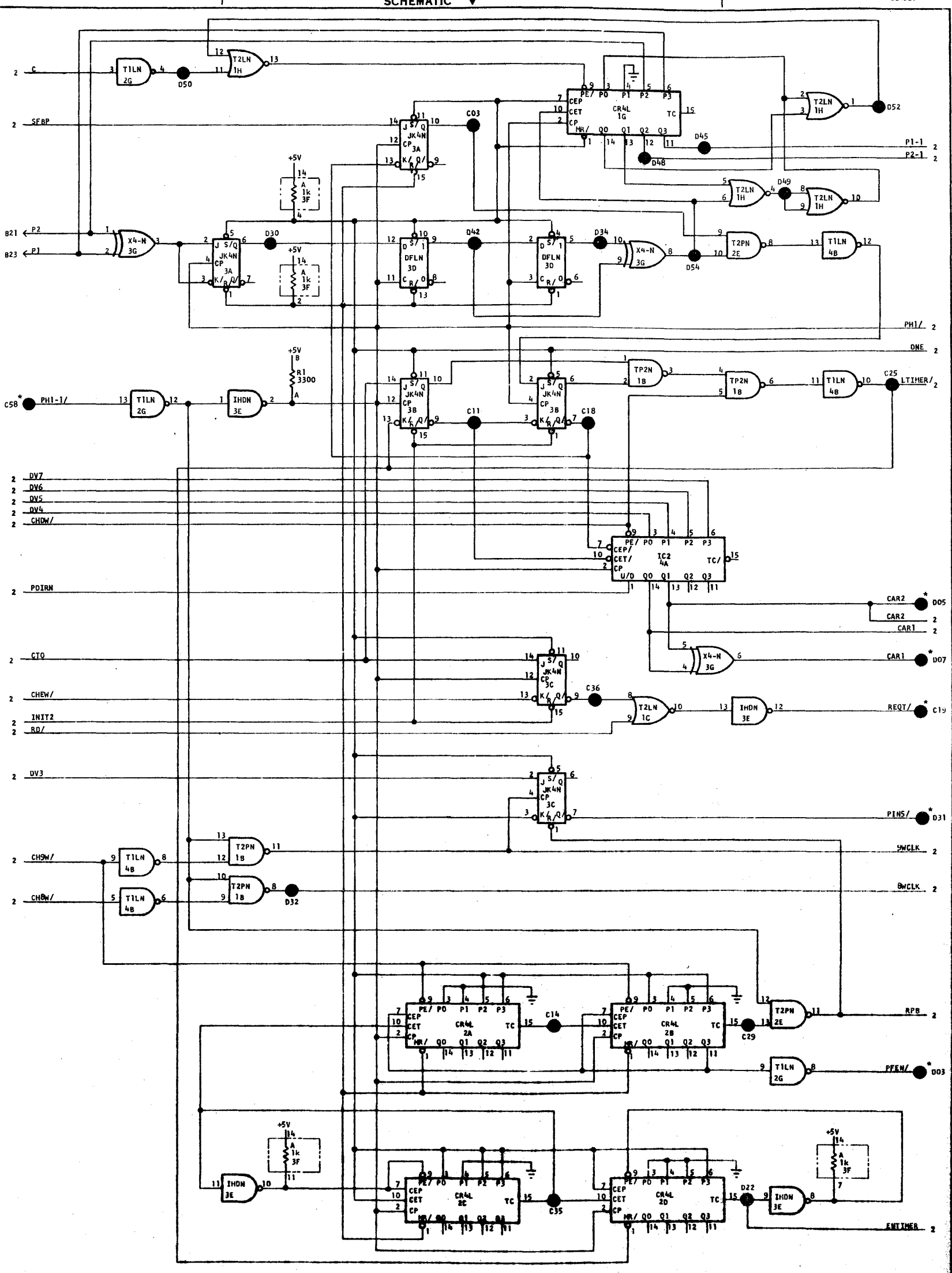

SCHEMATIC
INPUT
OUTPUT
LTIMER/
9WCLK
ENTIMER
P3
SFSW
RPB
NOT PART OF ASSY
LMS/
LADS/
PLSP2/
CAR2
FORSP/
PLSP1/
CAR1
SDIR
SIOX
XAD3
SCONT
XAD0
XAD1
XAD2
ONE
INIT1
P1-1
P2-1
8WCLK
PH1/
CR4L 5D
IC1 5E
S4LN 2F
D8LS 4C
CR4L 4G
IC1 4H
DLS4 5F
CR4L 5C
CR4L 5A
CR4L 5B
DLS4 5G
CR4L 4F
CR4L 4E
CTO
RD/
PIN9/
PIN8/
PIN7/
PIN6/
LADS/
INIT2
DV7
DV6
DV5
DV4
CHEW/
ALARM/
SFBP
PDIRN
LOCURCAR/
ENCAR/
C
CHDW/
CH9W/
CH8W/
PIN4/
PIN3/
PIN2/
PIN1/
DV3
DV2
DV1
DV0
FORM2
FORM1
LOCURFH/
ENFH/

Burroughs Corporation

SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170

PLYMOUTH PLANT
U.S. AMERICA

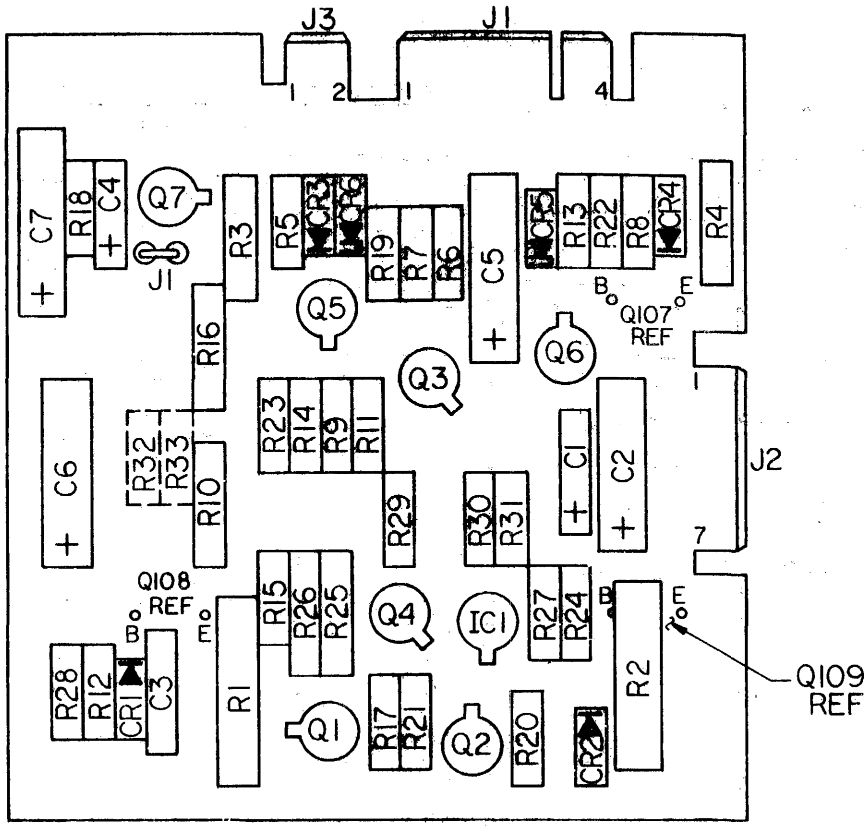
TITLE	SCHEMATIC, BOARD, PRTC		
SYSTEM		DWG. NO.	2769 3779
DRAWN R. BELVILLE 6-26-78	CHECKED J.A.M 10-2-78		
APPROVED	RELEASED 8-1-78	REV LETTER D	PAGE 2 OF 3



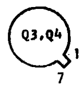
DWG. NO. 2769 3779
PAGE 3 of 3

Burroughs Corporation — SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA	TITLE SCHEMATIC, BOARD, PRTC		
	SYSTEM		DWG. NO. 2769 3779
	DRAWN R. BELVILLE 6-28-78	CHECKED T.A.M. 10-2-78	
	APPROVED	RELEASED 8-1-78	REV LETTER D — PAGE 3 OF 3

INPUT SCHEMATIC OUTPUT



NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT



NOTES:

1. FOR ASSEMBLY SEE 2769 4058 REV C
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S
IC1 - 1545 2485

DIODES
CR5 - 1110 2373
CR1,CR2 - 1471 4703
CR3,CR4 - 1471 4737
CR6 - 2571 1169

JUMPER
J1 - 1536 3674

TRANSISTORS
Q1,Q2 - 1471 4786
Q5,Q6 - 1471 4828
Q3,Q4 - 2571 0682

THYRISTOR
Q7 - 2571 0708

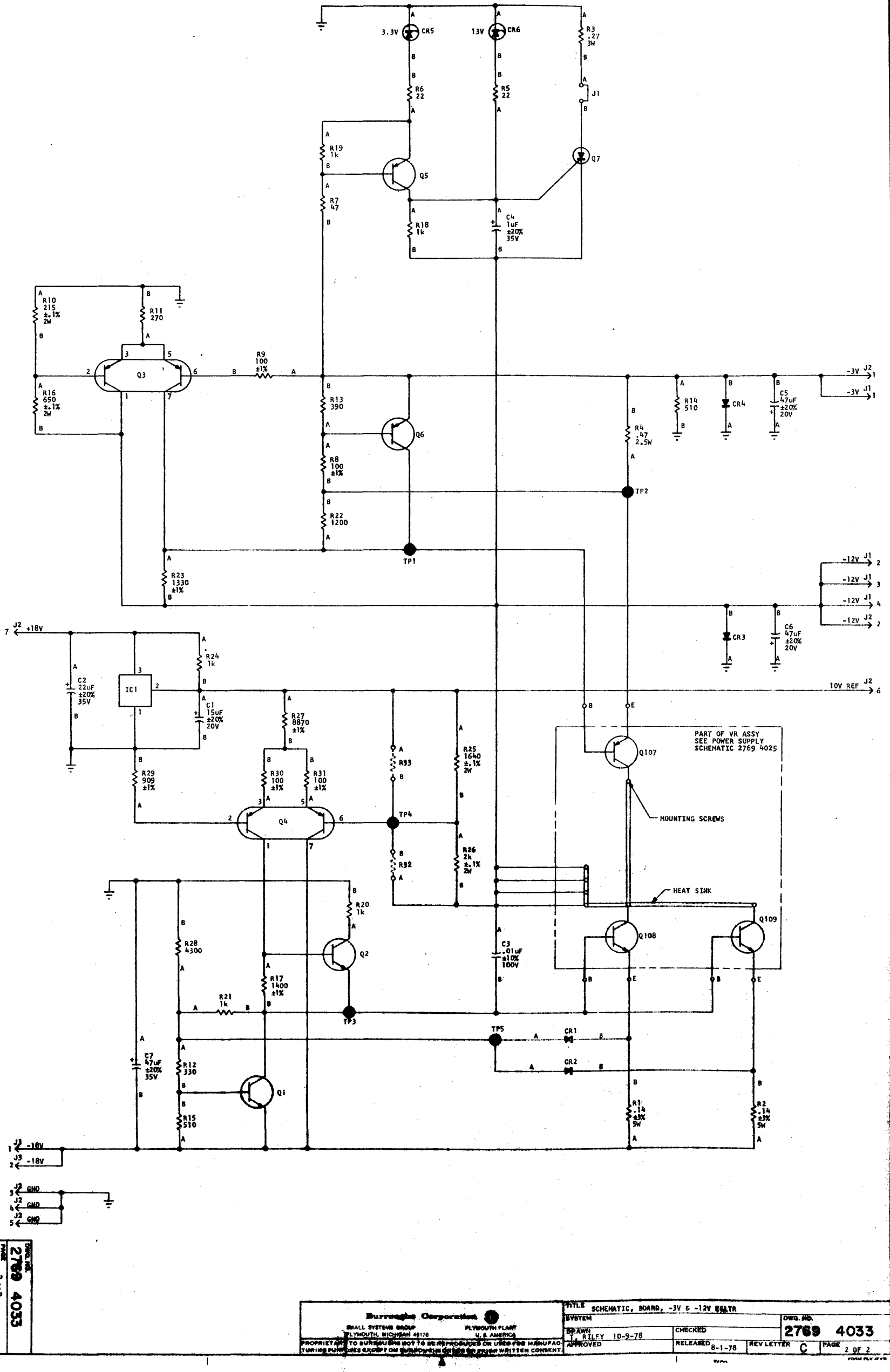
UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

PAGE	DWG. NO.		REV	
1 of 2	2769 4033	RELEASED 8-1-78		
		ER 62220	A	
		ECN 62455 1-19-79 SHEET 1 AFFECTED	B	
		ECN 62861 SHEET 1 AFFECTED	C	

C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT
U. S. AMERICA

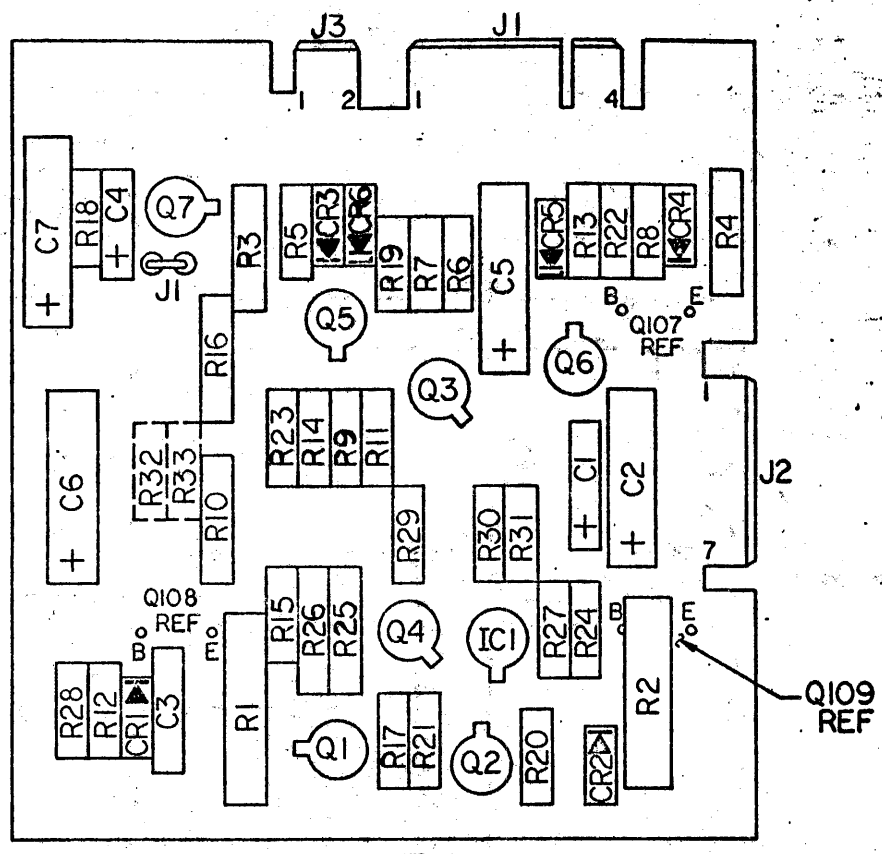
TITLE SCHEMATIC, BOARD, -3V & -12V RGLTR			
SYSTEM			DWG. NO. 2769 4033
DRAWN E. KARAS 10-31-78	CHECKED 12-13-78		
APPROVED 12-15-78	RELEASED 8-1-78	REV LETTER C	PAGE 1 OF 2



DWG. NO. 2769 4033
PAGE 2 of 2

TITLE	SCHEMATIC, BOARD, -3V & -12V REGTR		
SYSTEM		DWG. NO.	2769 4033
DRAWN J. RILEY 10-9-78	CHECKED		
APPROVED	RELEASED 8-1-78	REV LETTER C	PAGE 2 OF 2

FORM FLY 47 FR

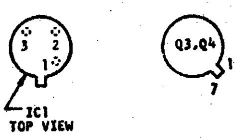


NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

EDA # 63396

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51071 TMR
GROUP 4
DATE 7-16-80

PAGES 1 & 2 AFFECTED



NOTES:

1. FOR ASSEMBLY SEE ~~2769 4058~~ ★2770 6878 REV ~~B~~ A
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S
IC1 - 1545 2485

JUMPER
J1 - 1536 3674

TRANSISTORS
Q1,Q2 - 1471 4786
Q5,Q6 - 1471 4828
Q3,Q4 - 2571 0682

DIODES
CR5 - 1110 2373
CR1,CR2 - 1471 4703
CR3,CR4 - 1471 4737
CR6 - 2571 1169

THYRISTOR
Q7 - 2571 0708

UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

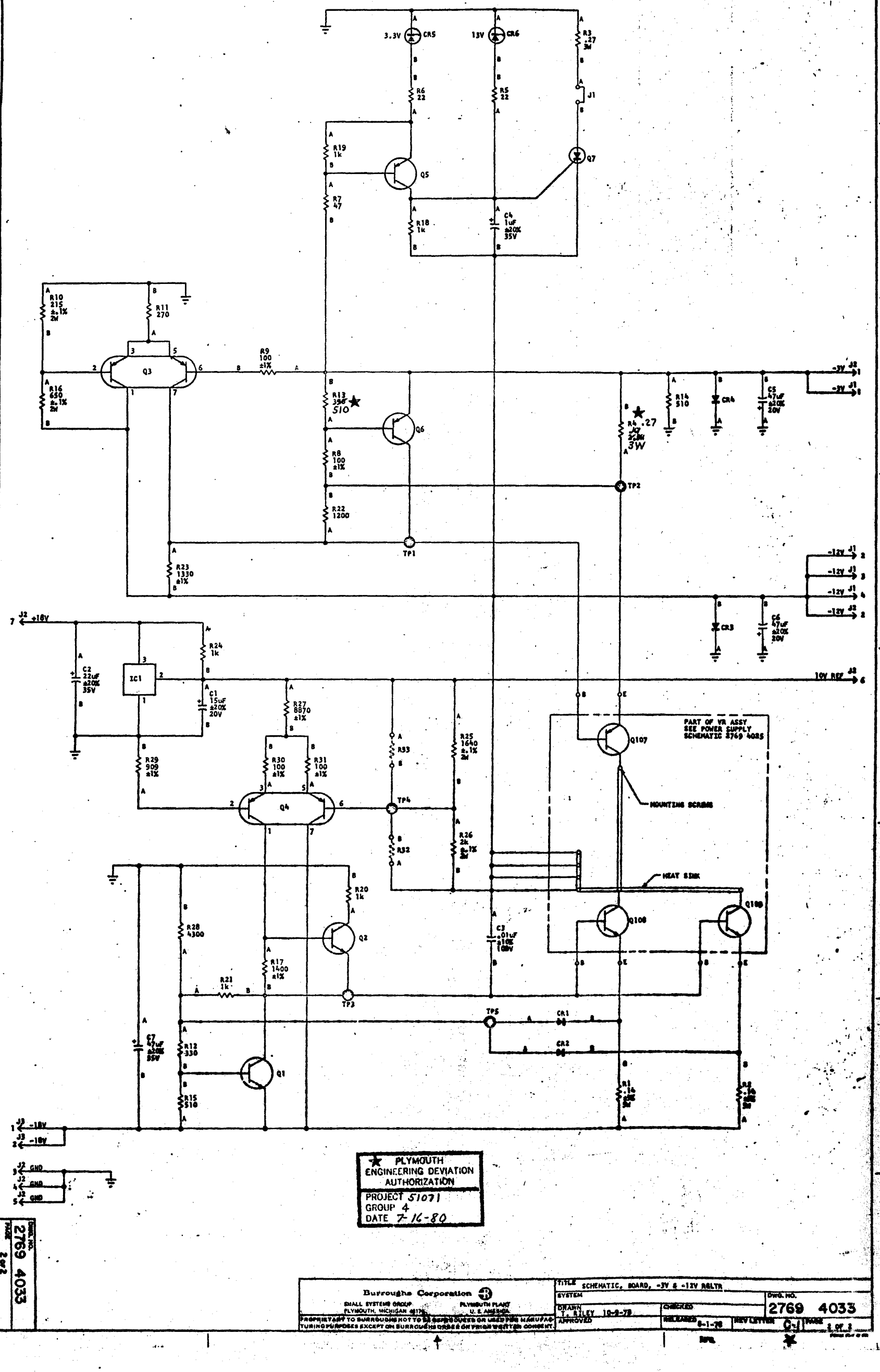
PAGE	DWG. NO.		REV	
1 of 2	2769 4033	RELEASED 8-1-78	RE	
		ER 62220	A	
		ECN62495 1-19-79 SHEET 1 AFFECTED	B	
		ECN 62861 SHEET 1 AFFECTED	C	

C.C.2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

TITLE SCHEMATIC, BOARD, -3V & -12V RGLTR			
SYSTEM		DWG. NO. 2769 4033	
DRAWN E. KARAS 10-31-78	CHECKED 12-13-78		
APPROVED 12-15-78	RELEASED 8-1-78	REV LETTER C-1	PAGE 1 OF 2

INPUT | SCHEMATIC ↓ | OUTPUT



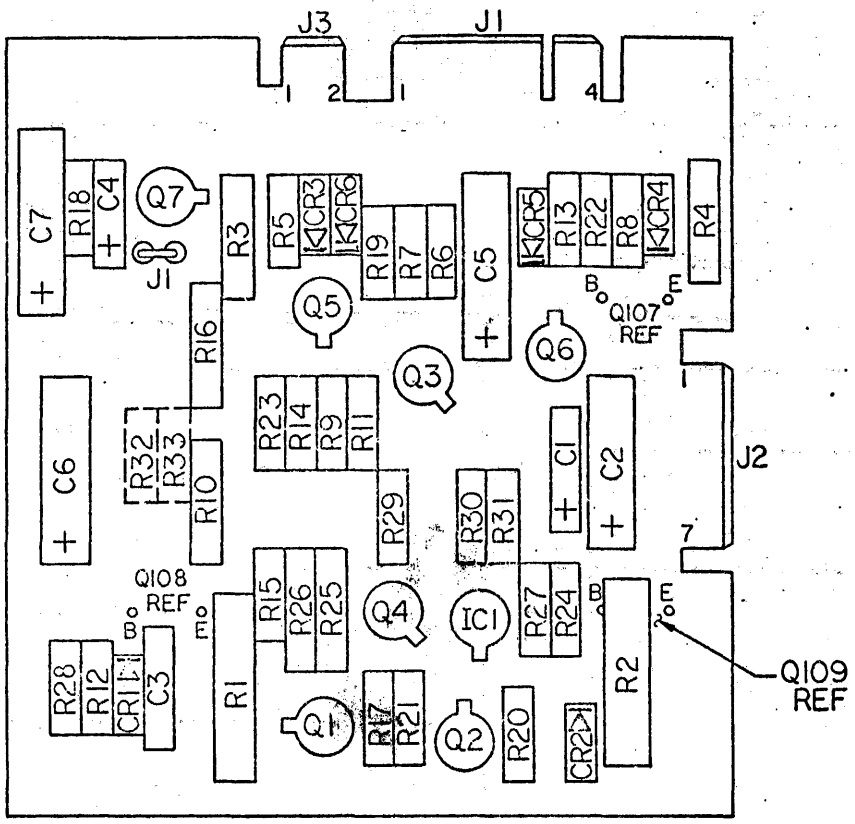
★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION

PROJECT 51071
GROUP 4
DATE 7-16-80

DWG. NO. 2769 4033
PAGE 2 of 2

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U. S. AMERICA

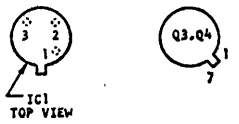
TITLE SCHEMATIC, BOARD, -3V & -12V REGLTR
SYSTEM
DRAWN T. RILEY 10-9-79
CHECKED
APPROVED
RELEASED 8-1-79
DWG. NO. 2769 4033
REVISION C
PAGE 2 OF 2



NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

EDA # 63396
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51071 TMR
GROUP 4
DATE 7-16-80
PAGES 1 & 2 AFFECTED

EDA # 63495
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP 256
DATE 9-26-80
PAGES 1 & 2 AFFECTED



★★ 2770 7298
~~★ 2770 4878~~

NOTES:
1. FOR ASSEMBLY SEE 2769 4058 REV ~~A~~ A
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S
IC1 - 1545 2485

JUMPER
J1 - 1536 3674

TRANSISTORS
Q1,Q2 - 1471 4786
Q5,Q6 - 1471 4828
Q3,Q4 - 2571 0682

DIODES
CR5 - 1110 2373
CR1,CR2 - 1471 4703
CR3,CR4 - 1471 4737
CR6 - ~~2571 1169~~ ★★ 1534 8287

THYRISTOR
Q7 - 2571 0708

UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

PAGE 1 of 2	2769 4033 ON DWG	RELEASED 8-1-78	ER 62220
			ECN 62495 1-19-79 B SHEET 1 AFFECTED
			ECN 62861 C SHEET 1 AFFECTED

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA

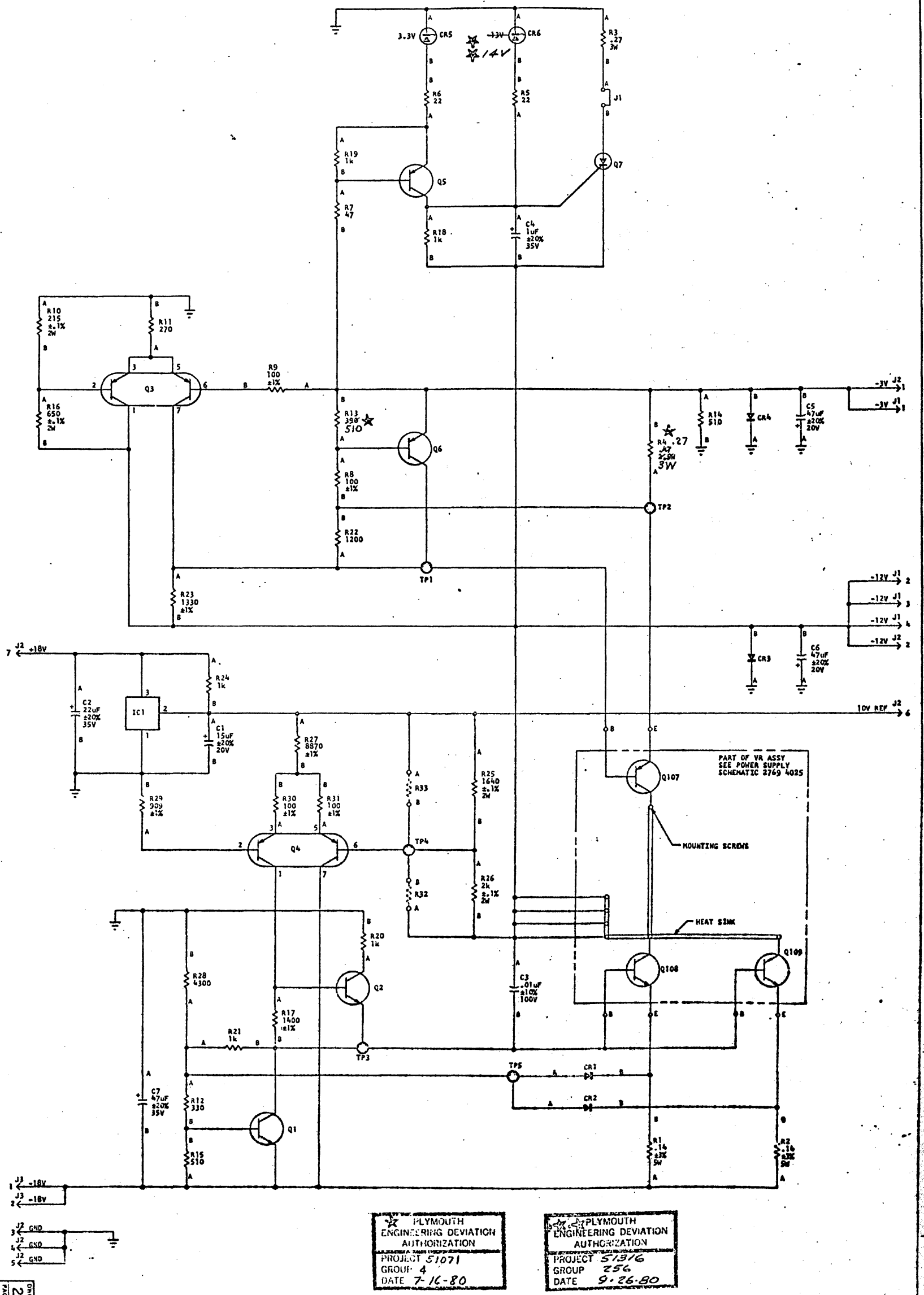
C.C. 2-9520

TITLE	SCHEMATIC, BOARD, -3V & -12V RGLTR		
SYSTEM			DWG. NO. 2769 4033
DRAWN	E. KARAS 10-31-78	CHECKED 12-13-78	
APPROVED	12-15-78	RELEASED 8-1-78	REV LETTER ~~C~~ C-1
			PAGE 1 OF 3

BDS-46

MFG

★ C-2 ★★



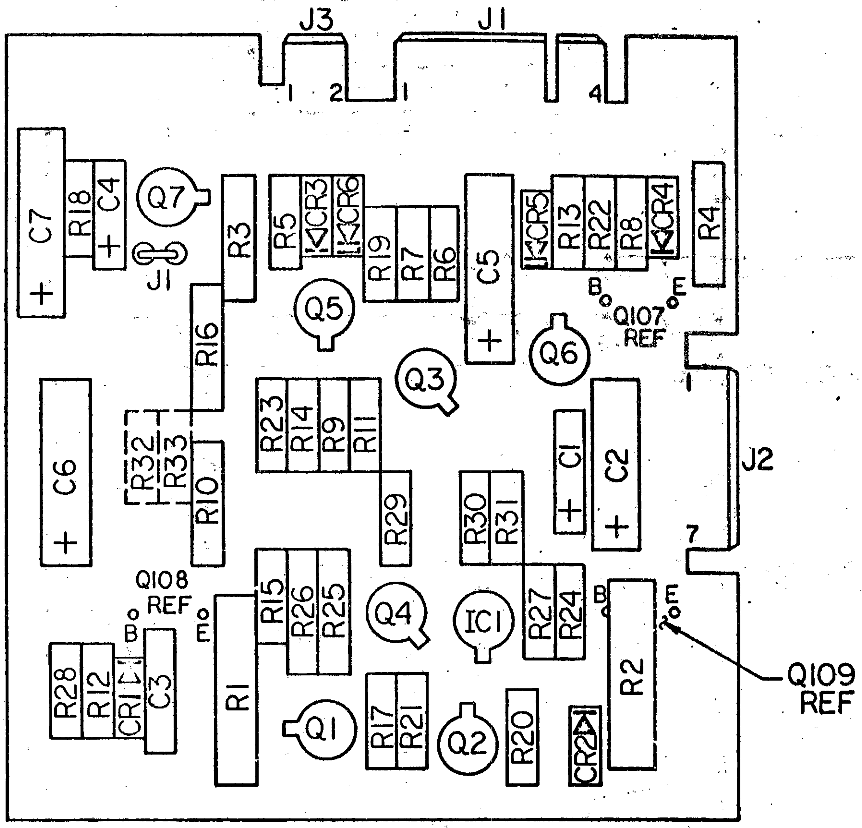
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51071
GROUP 4
DATE 7-16-80

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP 256
DATE 9-26-80

DWG. NO. 2769 4033
PAGE 2 of 2

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE SCHEMATIC, BOARD, -3V & -12V RGLTR
SYSTEM
DWG. NO. 2769 4033
DRAWN T. RILEY 10-9-78
CHECKED
APPROVED
RELEASED 8-1-78
REV LETTER C-H
PAGE 2 OF 2
SUPV C-2



NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

EDA 63782
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP —
DATE 4-3-81
PAGE 1 & 2 AFFECTED

EDA # 63396
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51071
GROUP 4
DATE 7-16-80
PAGES 1 & 2 AFFECTED

EDA # 63495
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP 256
DATE 9-26-80
PAGES 1 & 2 AFFECTED

~~2770 6878~~ ~~2770 7898~~ 2770 8577

NOTES:
1. FOR ASSEMBLY SEE ~~2765 4058~~ REV & A
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

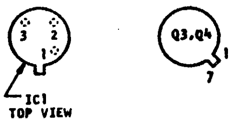
I.C.'S
IC1 - 1545 2485

JUMPER
J1 - 1536 3674

TRANSISTORS
Q1,Q2 - 1471 4786
Q5,Q6 - 1471 4828
Q3,Q4 - 2571 0682

DIODES
CR5 - 1110 2373
CR1,CR2 - 1471 4703
CR3,CR4 - 1471 4737
CR6 - ~~2571 1169~~ 1534 8287

THYRISTOR
Q7 - 2571 0708



UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

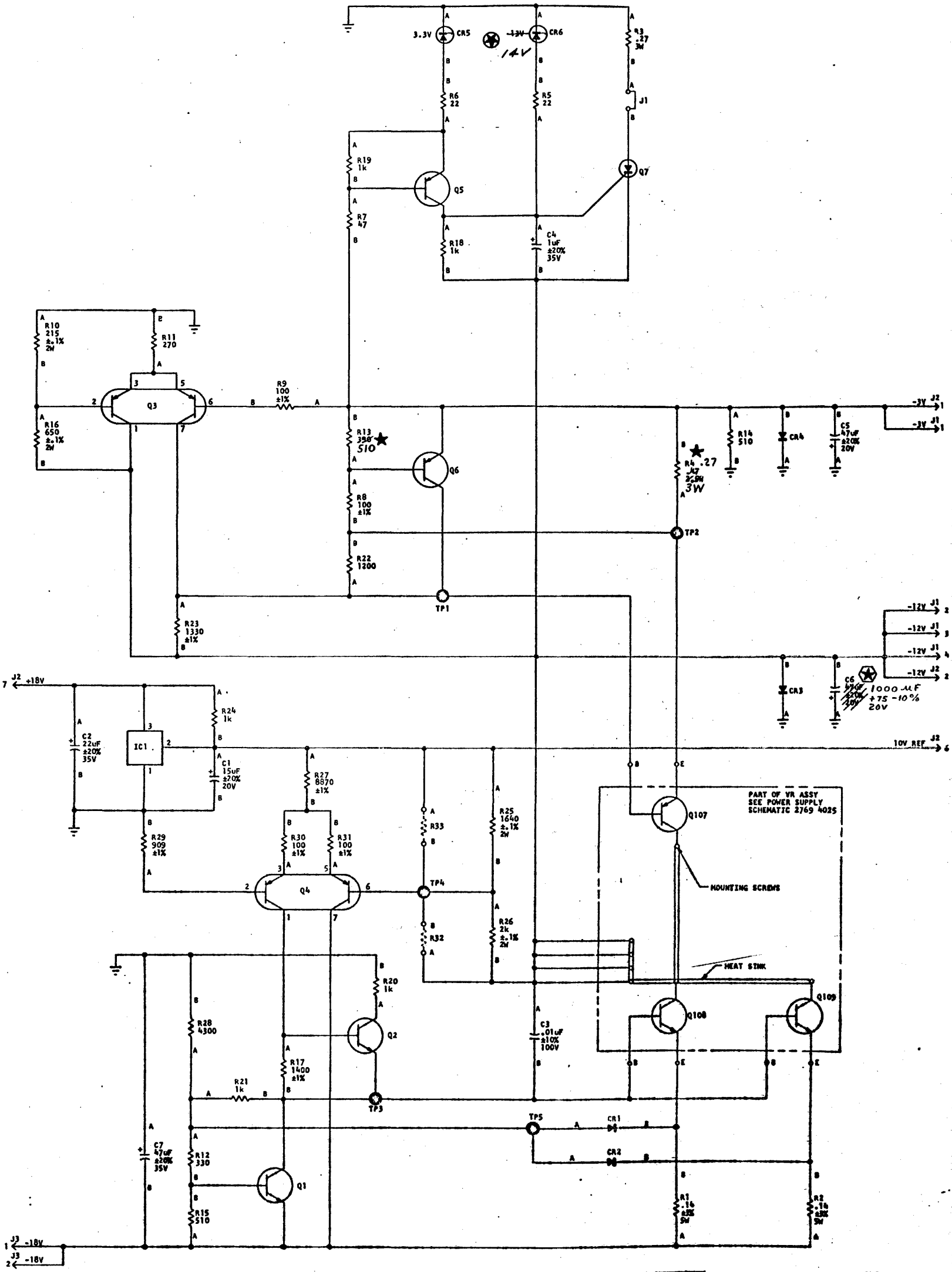
PAGE	1 of 2
DWG. NO.	2769 4033
RELEASED 8-1-78	RC
ER 62220	A
ECN62495 1-19-79 SHEET 1 AFFECTED	B
ECN 62861 SHEET 1 AFFECTED	C

C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U. S. AMERICA

TITLE	SCHEMATIC, BOARD, -3V & -12V RGLTR
SYSTEM	
DRAWN	E. KARAS 10-31-78
CHECKED	12-13-78
APPROVED	12-15-78
RELEASED	8-1-78
REV LETTER	~~C1~~ C2
DWG. NO.	2769 4033
PAGE	1 OF 2

BDS-46 D SIZE MFG.



PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51071
GROUP 4
DATE 7-16-80

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP 256
DATE 9-26-80

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP —
DATE 4-3-81

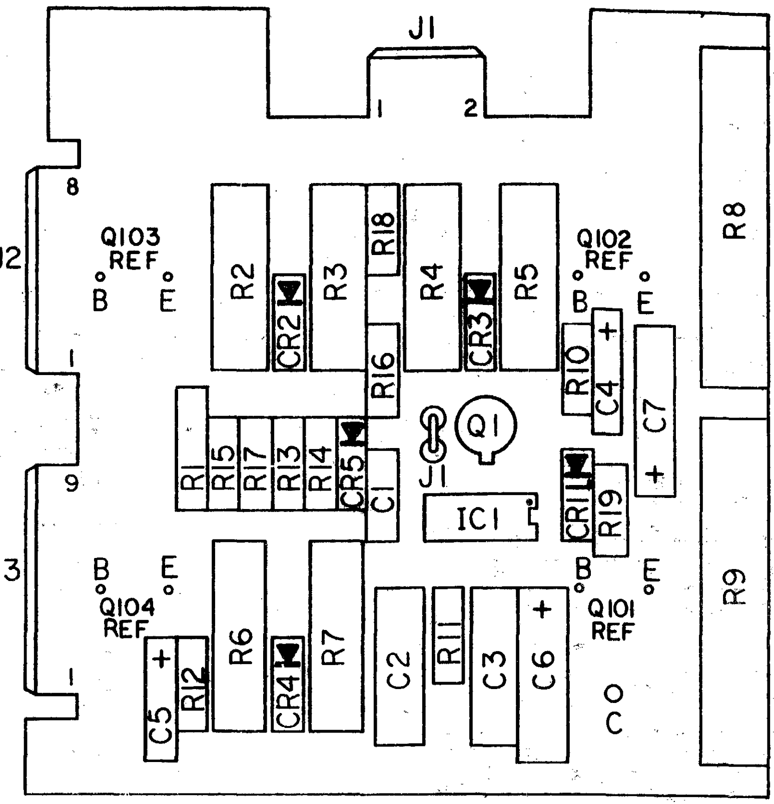
DWG. NO. 2769 4033
PAGE 2 of 2

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

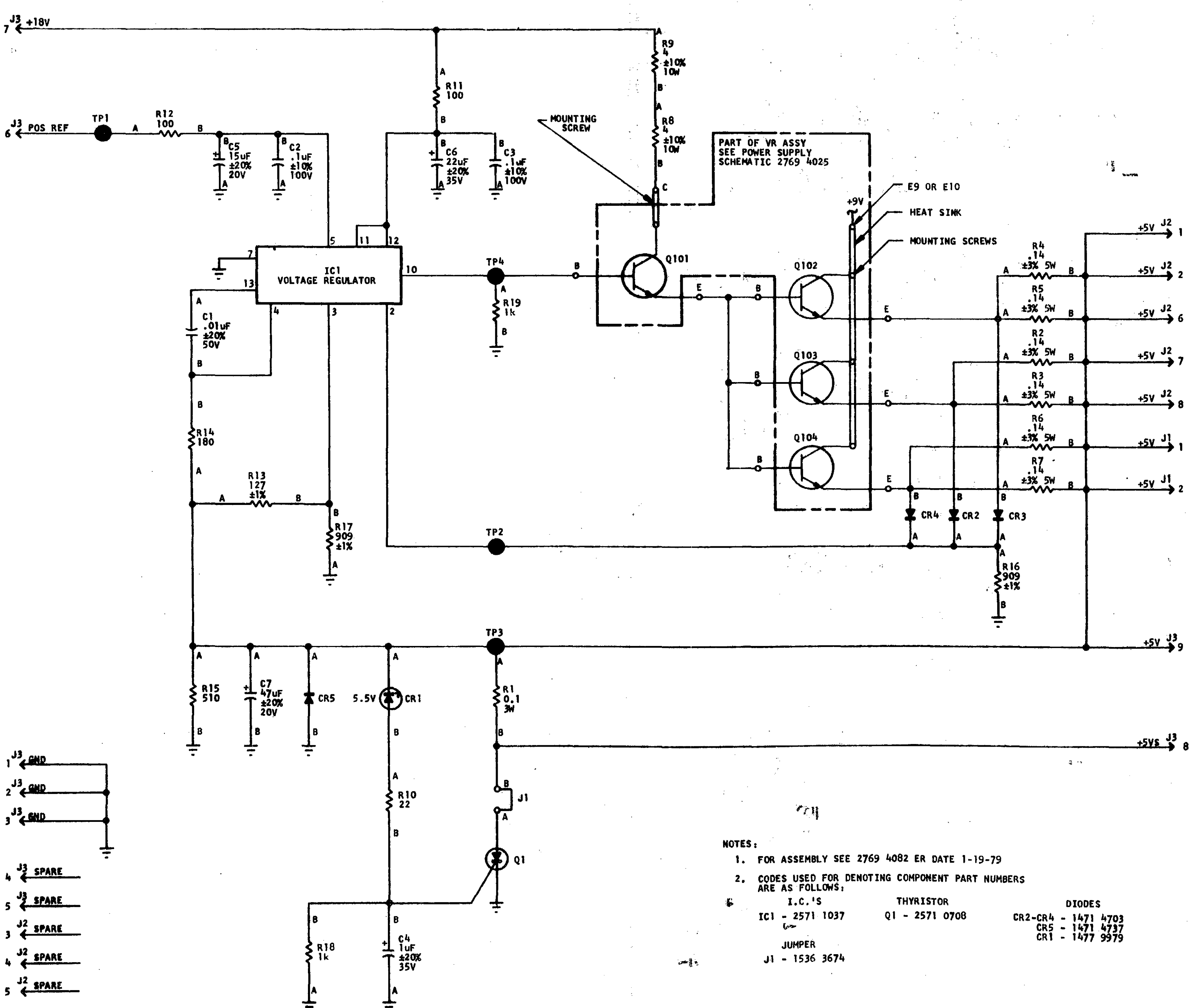
TITLE SCHEMATIC, BOARD, -3V & -12V RGLTR
SYSTEM
DRAWN T. RILEY 10-9-78
CHECKED
APPROVED
RELEASED 8-1-78
DWG. NO. 2769 4033
REV LETTER C-1
PAGE 2 OF 2

D SIZE
MFG. C-2

INPUT SCHEMATIC OUTPUT



NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT



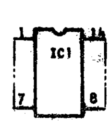
NOTES:
1. FOR ASSEMBLY SEE 2769 4082 ER DATE 1-19-79
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S
IC1 - 2571 1037

THYRISTOR
Q1 - 2571 0708

DIODES
CR2-CR4 - 1471 4703
CR5 - 1471 4737
CR1 - 1477 9979

JUMPER
J1 - 1536 3674



TYPICAL PIN ORIENTATION

UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

PAGE	DWG NO.	REV	
1 of 1	2769 4066		
	RELEASED	8-1-78	
	ER62220	A	
		B	1-1979

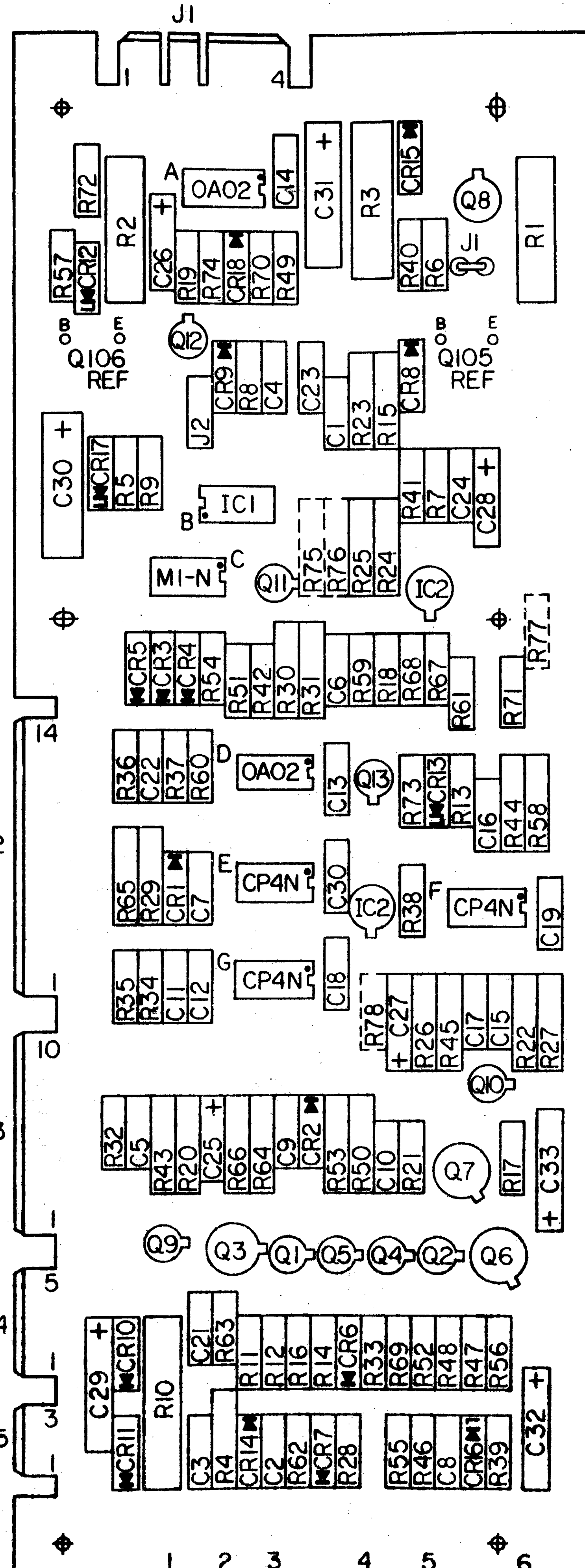
CC2-9530

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U. S. AMERICA

TITLE: SCHEMATIC, BOARD, +5V RGLTR
SYSTEM
DRAWN R. BELVILLE 11-2-78
CHECKED 11-29-78
APPROVED 12-15-78
RELEASED 8-1-78
REV LETTER B
DWG. NO. 2769 4066
PAGE 1 OF 1

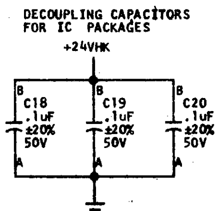
BDS-47

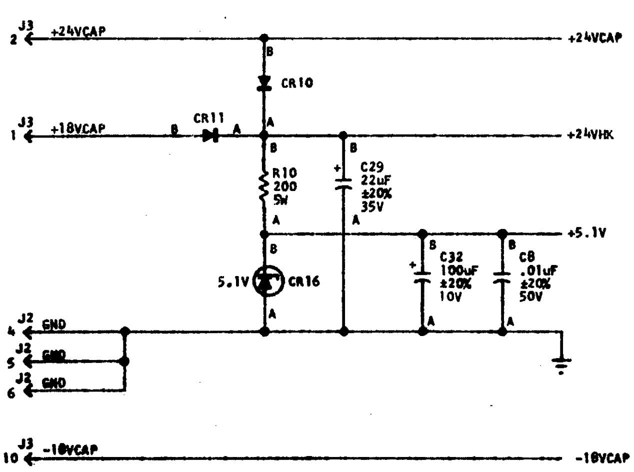
INPUT SCHEMATIC OUTPUT

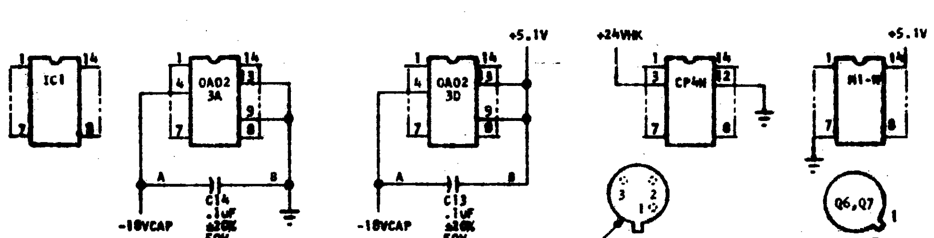


NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

DECOUPLING CAPACITORS FOR IC PACKAGES

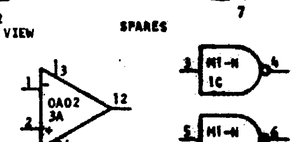






TYPICAL PIN ORIENTATION WITH VOLTAGE & GROUND CONNECTIONS

SPARES



NOTES:

1. FOR ASSEMBLY SEE 2769 4132 ER DATE 1-19-79
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

M1-N - 1471 4856
OA02 - 1536 7360
IC2 - 1545 2485
CP4N - 2118 8297
IC1 - 2571 1037

TRANSISTORS

Q1,Q2 - 1471 4778
Q3 - 1471 4786
Q13 - 1472 8349
Q4,Q5 - 1477 3451
Q9-Q12 - 2470 7051
Q6,Q7 - 2571 0682
Q8 - 2571 0708

DIODES

CR12,CR13 - 1110 2373
CR1-CR9,CR18 - 1471 4703
CR10,CR11,CR14,CR15 - 1471 4737
CR16 - 1477 3469
CR17 - 1627 1991

UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

PAGE	DWG. NO.	REV	
1 OF 3	2769 4116	A	ER62220
	RELEASED	B	ECN62455 1-19-79 SHEET 1,2&3 AFFECTED

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT, U.S. AMERICA

TITLE SCHEMATIC, BOARD, +12V RGLTR & CONTROLS			
SYSTEM			DWG. NO. 2769 4116
DRAWN MELVILLE 11-6-78	CHECKED 12-13-78		
APPROVED 12-15-78	RELEASED 8-1-78	REV LETTER B	PAGE 1 of 3

CC2-

BDS-48

INPUT | SCHEMATIC | OUTPUT

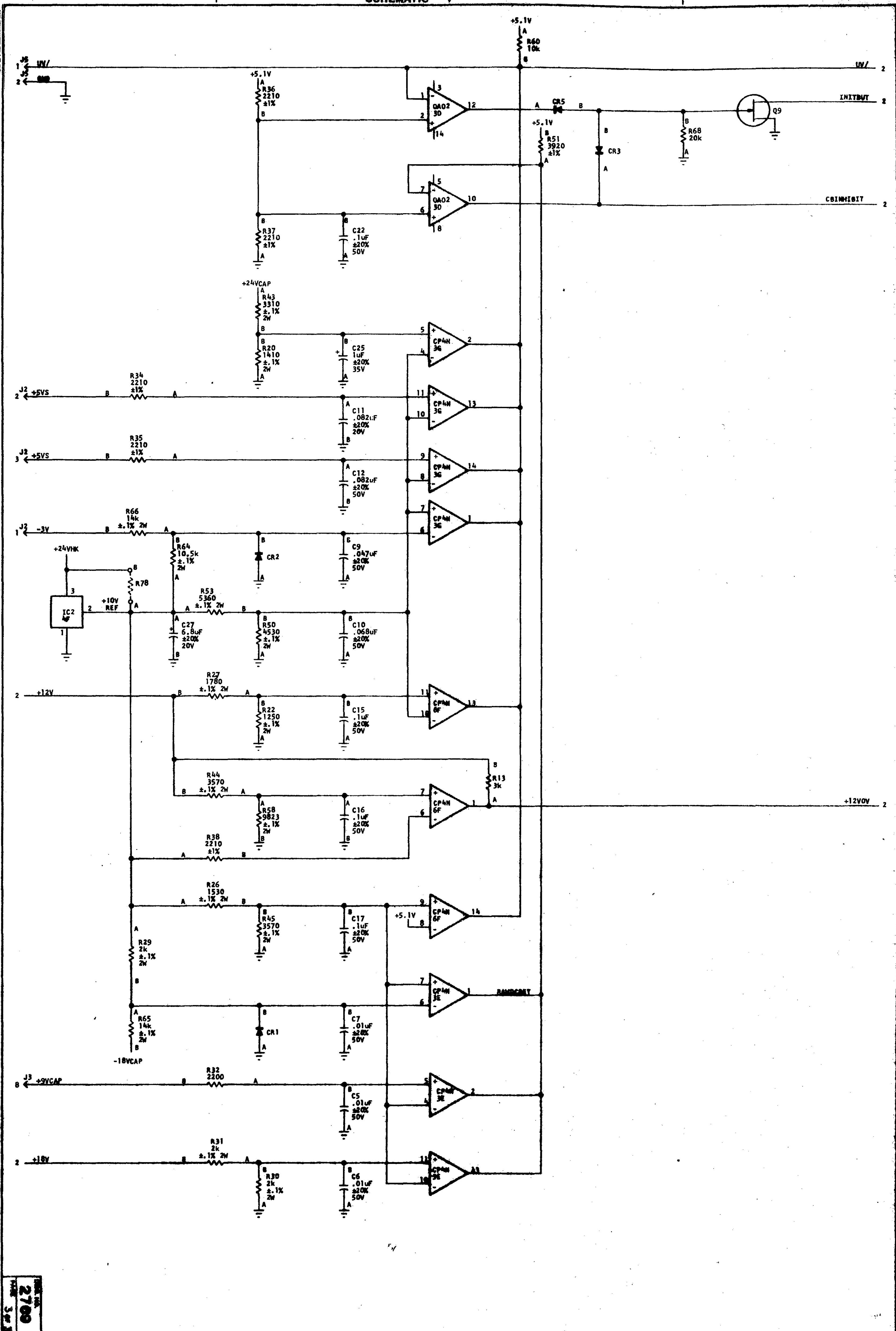
J4 MTRBEL
J4 GND
+24VHK
IC2 5C
+10V REF
R77
R76
R24 1310 ±.1% 2W
R75
C28 6.8uF ±20% 35V
R25 1370 ±.1% 2W
C23 .1uF ±20% 50V
+24VCAP
R9 100
R7 100
C30 22uF ±20% 35V
C24 .1uF ±20% 50V
MTRBEL J1 1
POS REF J2 9
POS REF J2 10
+18V J2 12
+18V J2 13
+18V J2 14
+18V 3
PART OF VR ASSEMBLY SEE POWER SUPPLY SCHEMATIC 2769 4025
+18V
E11
MOUNTING SCREWS
HEAT SINK
Q106
Q105
24V CR17
R3 .25 5W
R5 22
J1
R71 330
R23 1290 ±.1% 2W
IC1 2B VOLTAGE REGULATOR
3 +12VOV
CR13 3.3V
Q13
Q8
R73 3920 ±1%
R19 1k
C26 1uF ±20% 35V
R15 930 ±.1% 2W
C4 2700pF ±20% 50V
CR8
CR9
R1 .14 ±3% 5W
R2 .14 ±3% 5W
+12V J1 4
+12V 3
R41 3k
R6 71.5 ±1%
R40 2550 ±1%
CR15
C31 47uF ±20% 20V
R8 2200
+5.1V
R33 2200
M1-N 1C
RST/ J1 2
3.3V CR12
R72 1200
-18VCAP
QA02 3A
CR18
Q12
R74 20k
J2
J2 11 -12V
R57 4020 ±1%
R70 33k
R49 1870 ±1%
CP4N 6F
+5.1V
R61 10k
C1 470pF ±20% 50V
3 J1 -5VS
M1-N 1C
+5.1V
R54 5490 ±1%
R18 1k
CP4N 3E
3 UV/
R59 10k ±1%
R42 3160 ±1%
+5.1V
R56 6200
R48 3920 ±1%
R17 1k
R52 3920 ±1%
R12 1k
C21 .1uF ±20% 50V
C33 100uF ±20% 10V
Q6
Q7
Q5
2 J4 INITBUT
3 INITBUT
1 J4 GND
R11 330
C3 470pF ±20% 50V
Q4
R63 10k
R39 2400
R47 3920 ±1%
R21 1200
R46 3650 ±1%
CR6
CR7
R14 330
R28 1800
-12V
Q11
R55 6200
Q2
R69 33k
+24VHK
R4 18 2W
CB1-D J3 4
CR14
CB1-C J3 3
Q3
3 CBINHIBIT
CR4
Q10
C2 470pF ±20% 50V
R67 20k
Q1
R16 1k
R62 10k

DRWG NO. 2769 4116 SHEET NO. 2 OF 3

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U. S. AMERICA

TITLE SCHEMATIC, BOARD, +12V RGLTR & CONTROLS
SYSTEM
DRAWN KARAS 11-7-78
CHECKED
APPROVED
RELEASED
DWG. NO. 2769 4116
REV LETTER B
PAGE 2 OF 3

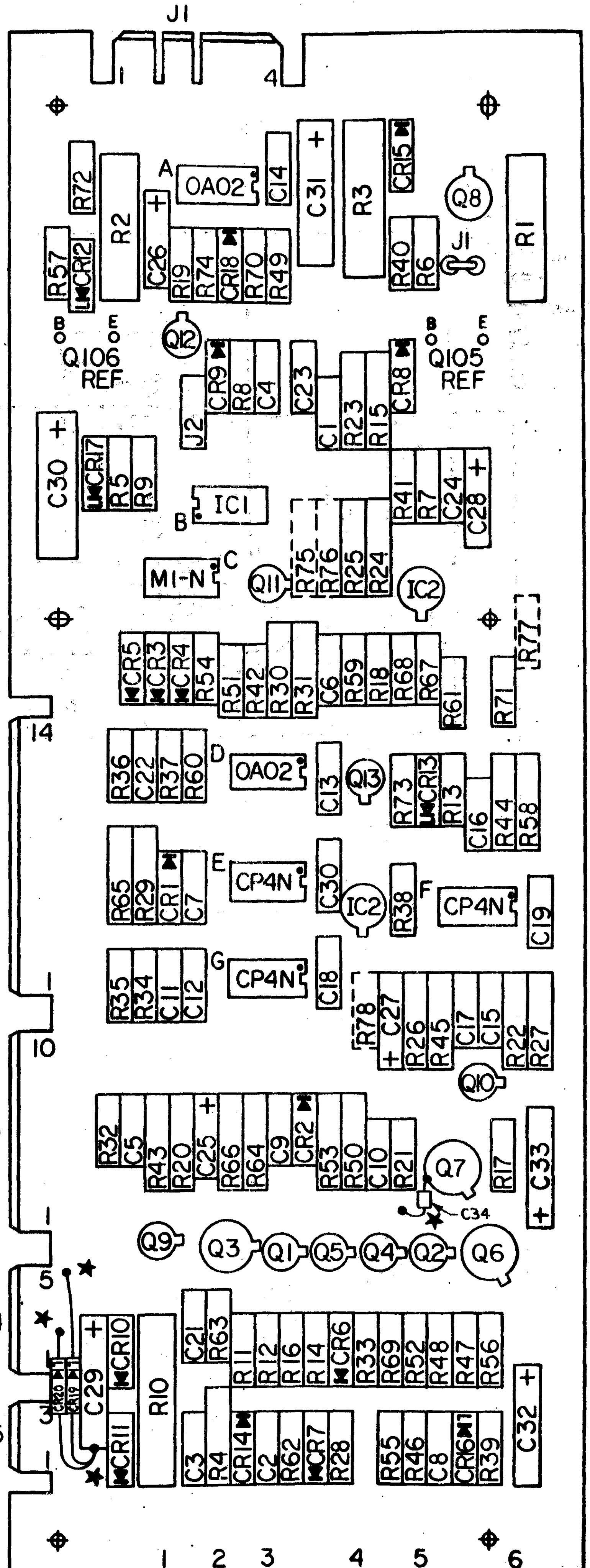
SCHEMATIC


INPUT
OUTPUT
J5 UV/
J5 GND
UV/
+5.1V
R60 10k
R36 2210 ±1%
R37 2210 ±1%
C22 .1uF ±20% 50V
QA02 3D
CR5
CR3
R51 3920 ±1%
R68 20k
Q9
INITOUT
CBINHIBIT
+24VCAP
R43 3310 ±.1% 2W
R20 1410 ±.1% 2W
C25 1uF ±20% 35V
CP4N 3G
J2 +5VS
R34 2210 ±1%
C11 .082uF ±20% 20V
R35 2210 ±1%
C12 .082uF ±20% 50V
J2 -3V
R66 14k ±.1% 2W
R64 10.5k ±.1% 2W
CR2
C9 .047uF ±20% 50V
+24VHK
R78
IC2 4F
+10V REF
R53 5360 ±.1% 2W
C27 6.8uF ±20% 20V
R50 4530 ±.1% 2W
C10 .068uF ±20% 50V
+12V
R27 1780 ±.1% 2W
R22 1250 ±.1% 2W
C15 .1uF ±20% 50V
CP4N 6F
R13 3k
R44 3570 ±.1% 2W
R58 9823 ±.1% 2W
C16 .1uF ±20% 50V
+12VOV
R38 2210 ±1%
R26 1530 ±.1% 2W
R45 3570 ±.1% 2W
C17 .1uF ±20% 50V
R29 2k ±.1% 2W
CP4N 3E
CR1
C7 .01uF ±20% 50V
R65 14k ±.1% 2W
-18VCAP
J3 +9VCAP
R32 2200
C5 .01uF ±20% 50V
+18V
R31 2k ±.1% 2W
R30 2k ±.1% 2W
C6 .01uF ±20% 50V

DWG. NO. 2769 4116
PAGE 3 of 3

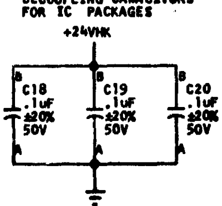
Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN
PLYMOUTH PLANT
U.S. AMERICA

TITLE SCHEMATIC, BOARD, +12V RGLTR & CONTROLS			DWG. NO. 2769 4116
SYSTEM			
DRAWN T. KARAS 11-3-78	CHECKED		
APPROVED	RELEASED 9-1-78	REV LETTER B	PAGE 3 OF 3



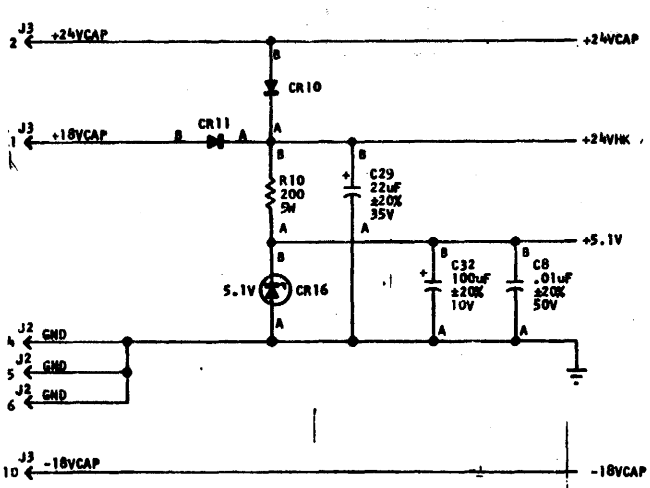
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

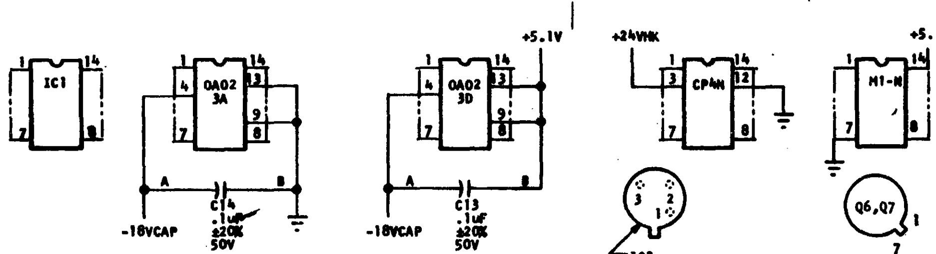
DECOUPLING CAPACITORS FOR IC PACKAGES



ECN 62862

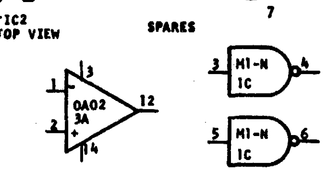
★ PLYMOUTH REWORK INSTRUCTION	EK
PROJECT 51376 GROUP 11	





TYPICAL PIN ORIENTATION WITH VOLTAGE & GROUND CONNECTIONS

SPARES



NOTES:

1. FOR ASSEMBLY SEE 2769 4132 REV C ★
2. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

M1-N	1471 4356
OA02	1536 7360
IC2	1545 2485
CP4N	2118 8297
IC1	2571 1037

TRANSISTORS

Q1,Q2	1471 4778
Q3	1471 4786
Q13	1472 8349
Q4,Q5	1477 3451
Q9-Q12	2470 7051
Q6,Q7	2571 0682
Q8	2571 0708

DIODES

CR12,CR13	1110 2373
CR1-CR9,CR18	1471 4703
CR10,CR11,CR14,CR15	1471 4737
CR16	1477 3469
CR17	1627 1991
★ CR19 & CR20	1479 7997 ★

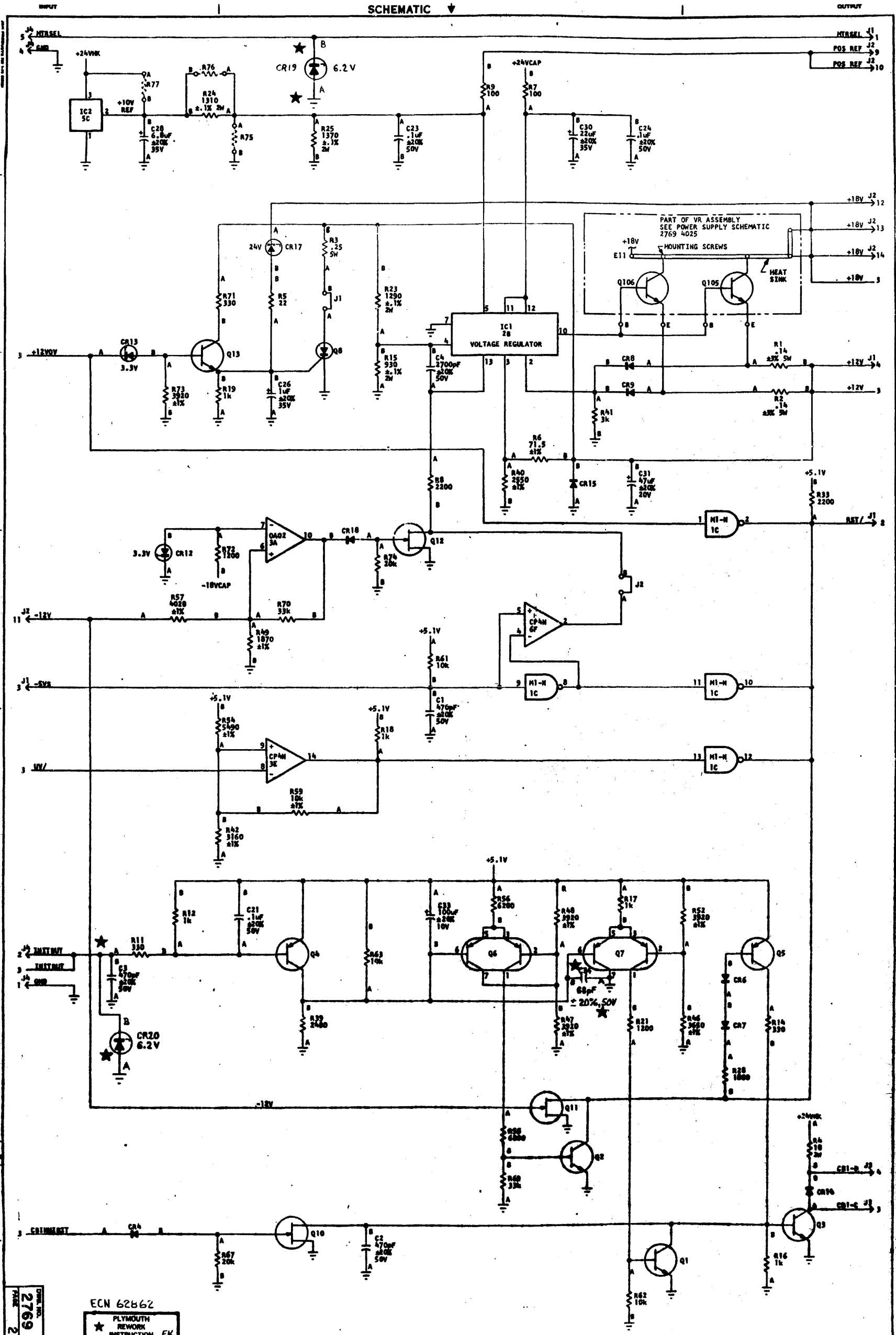
UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W

PAGE	DWG NO	REV	
1 OF 3	2769 4116		
	RELEASED 8-1-78	A	ER62220
		B	ECN62495 1-19-79 SHEET 1,2 & 3 AFFECTED
		C	ECN 62862 REWORK INST. PAGES 1 & 2 AFFECTED

C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT, U.S. AMERICA

TITLE SCHEMATIC, BOARD, +12V RGLTR & CONTROLS			
SYSTEM			DWG. NO 2769 4116
DRAWN BELVILLE 11-6-78	CHECKED 12-19-78		
APPROVED 12-15-78	RELEASED 8-1-78	REV LETTER C	PAGE 1 of 3



ECN 62862

PLYMOUTH REWORK INSTRUCTION EK

PROJECT 61316 GROUP 11 MFG.

DWG. NO. 2769 4116 PAGE 2 OF 3

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE SCHEMATIC, BOARD, +12V REGLTR & CONTROLS

SYSTEM

DRAWN S. KARAS 11-7-78

APPROVED

CHECKED

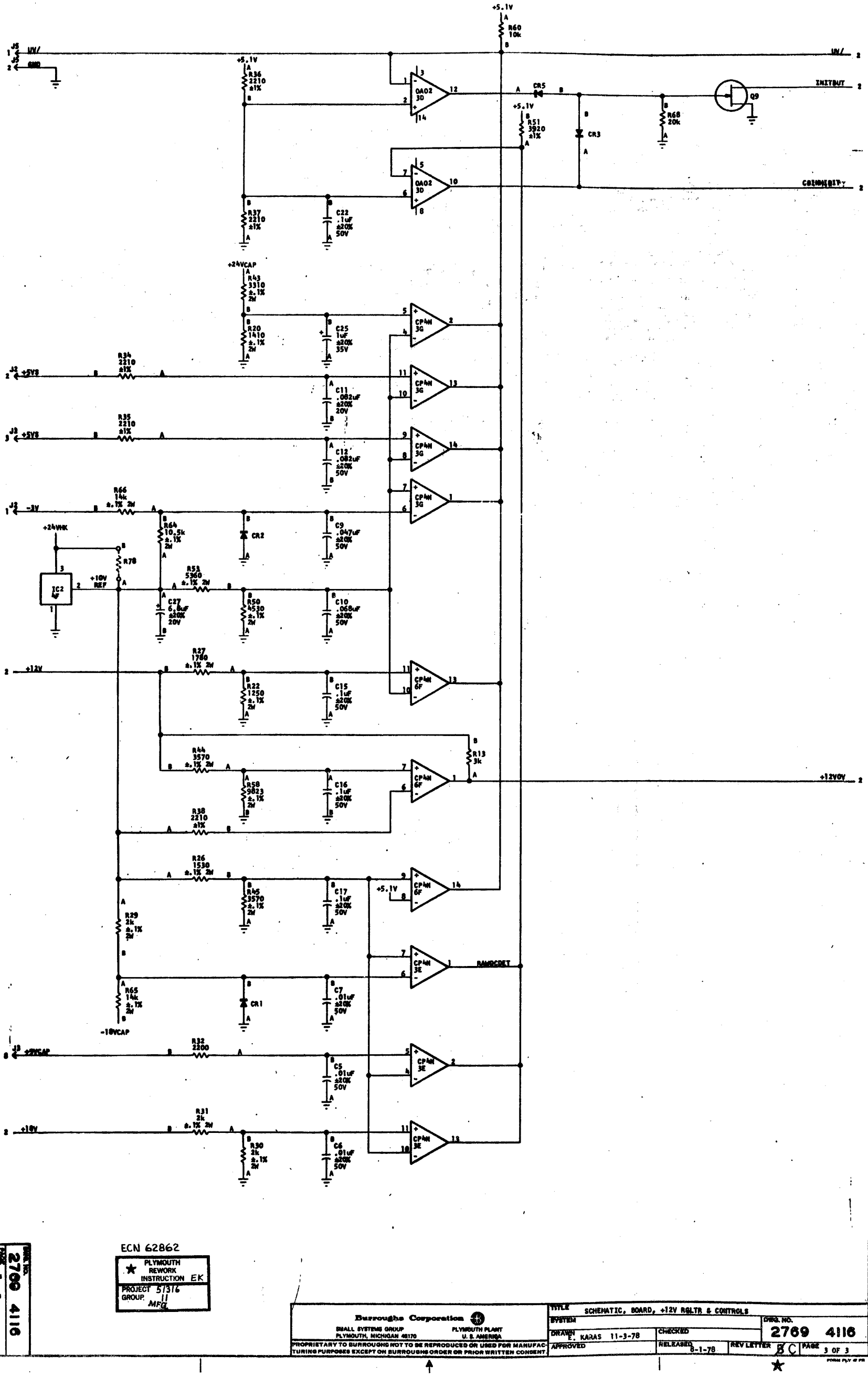
RELEASED

DWG. NO. 2769 4116

REV LETTER C

PAGE 2 of 3

ORIGINAL



ECN 62862

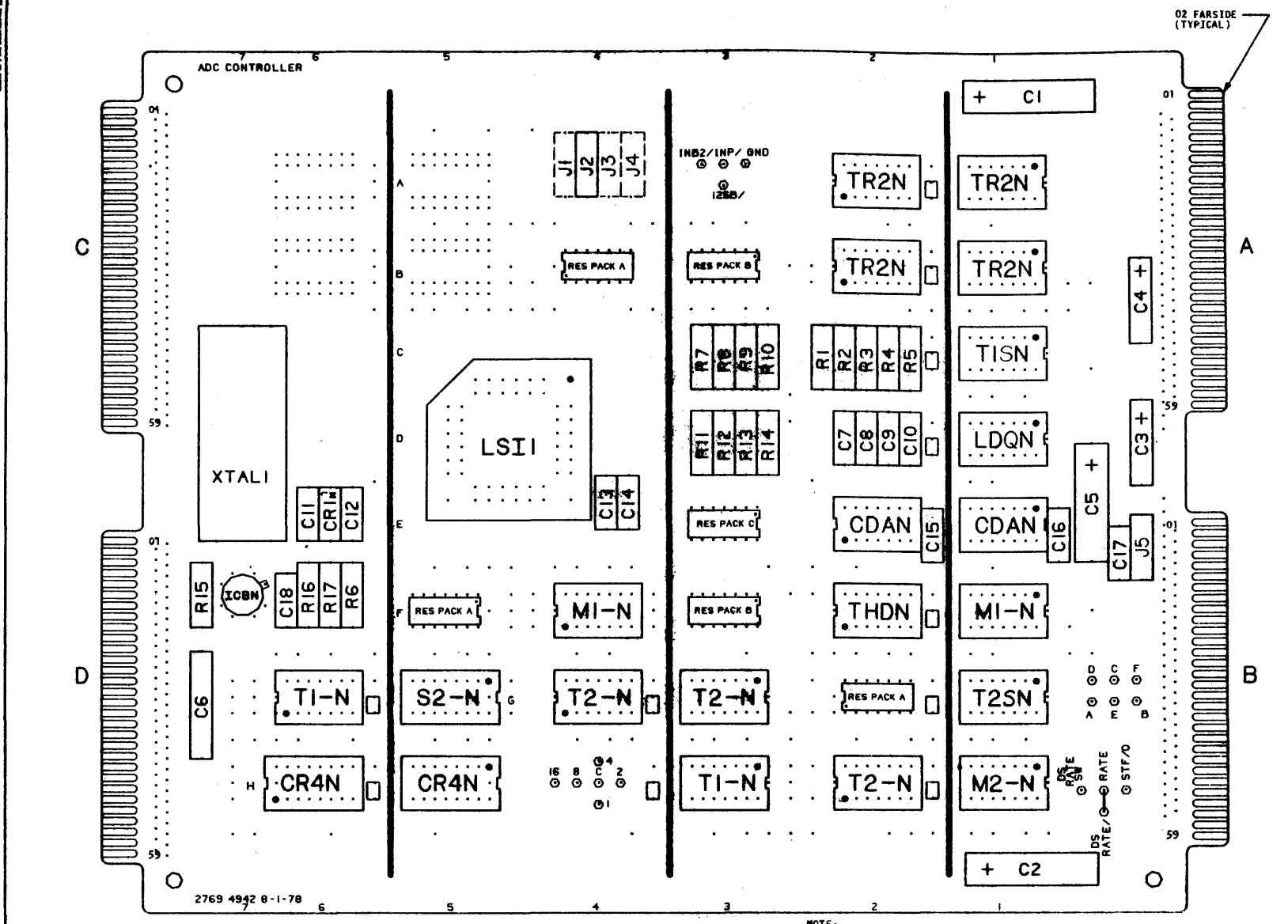
PLYMOUTH REWORK INSTRUCTION EK
PROJECT 57316
GROUP 11
MFG.

DWG. NO. 2769 4116
PAGE 3 of 3

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S.A.

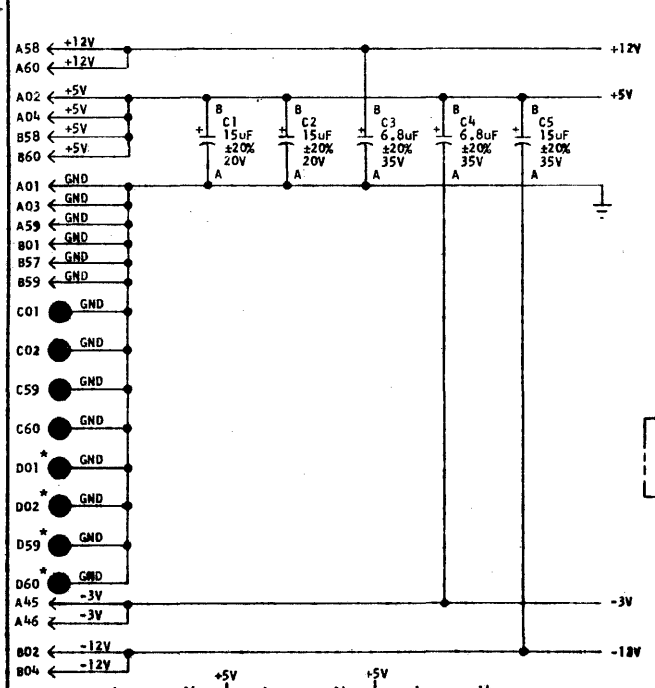
TITLE SCHEMATIC, BOARD, +12V REGLTR & CONTROLS
SYSTEM
DRAWN E. KARAS 11-3-78
CHECKED
APPROVED
RELEASED 8-1-78
REV LETTER BC
DWG. NO. 2769 4116
PAGE 3 OF 3

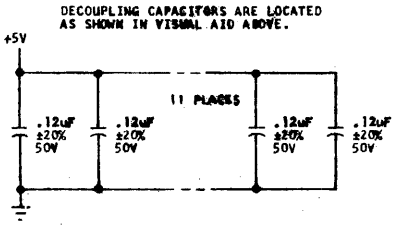
INPUT | SCHEMATIC ↓ | OUTPUT



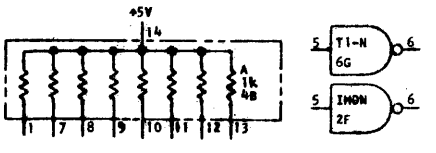
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

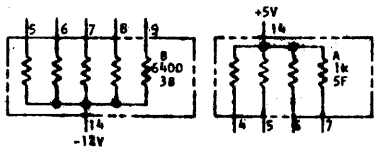
DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE.

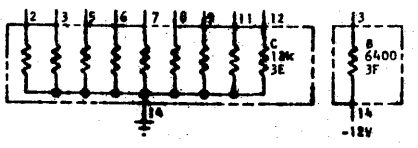


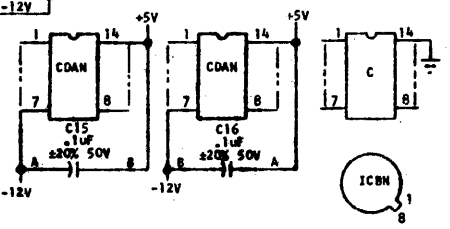


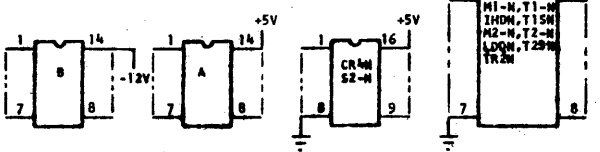
SPARES

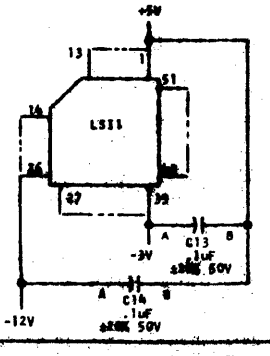












TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

NOTES:

1. FOR ASSEMBLY SEE 2769 4942 REV F
   FOR FINAL ASSEMBLY SEE 2769 4967(PL) 57.6 KHz
   2769 4975(PL) 153.6 KHz
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S				RESISTOR PACKAGE
T2-N - 1447 3516	T1SN - 2600 1495			A - 1846 4610
T1-N - 1447 3532	THDN - 1674 4963			B - 1846 5203
CR4N - 1447 3771	LDQN - 1848 4576			C - 2472 7992
MI-N - 1471 4356	LSI1 - 1845 9875			CRYSTAL
M2-N - 1471 4364	CDAN - 1846 5229			XTAL - SEE NOTE 5
ICBN - 1471 4406	TR2N - 2472 2548			DIODE
T2SN - 2600 1487	S2-N - 2472 5566			A - 1471 4687

4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.
5. SPEED:
   FOR 57.6 KHz CRYSTAL USE 180pF CAPACITOR (C6)
   FOR 153.6 KHz CRYSTAL USE 47pF CAPACITOR (C6)
   INSERT JUMPERS AS INDICATED IN TABLE.

TRANSMISSION SPEED OPTIONS

RATE		2769 4967(PL)	RATE		2769 4975(PL)
NORMAL	FALLBACK	57.6 kHz	NORMAL	FALLBACK	153.6 kHz
75	56.25	C-16, E-A	200	150	C-16, E-A
112.5	75	C-16, E-B	300	200	C-16, E-B
150	112.5	C-8, E-A	400	300	C-8, E-A
225	112.5	C-16, E-C	600	300	C-16, E-C
225	150	C-8, E-B	600	400	C-8, E-B
300	225	C-4, E-A	800	600	C-4, E-A
450	225	C-8, E-C	1200	600	C-8, E-C
450	300	C-4, E-B	1200	800	C-4, E-B
600	450	C-2, E-A	1600	1200	C-2, E-A
900	450	C-4, E-C	2400	1200	C-4, E-C
900	600	C-2, E-B	2400	1600	C-2, E-B
1200	900	C-1, E-A	3200	2400	C-1, E-A
1800	900	C-2, E-C	4800	2400	C-2, E-C
1800	1200	C-1, E-B	4800	3200	C-1, E-B
3600	1800	C-1, E-C	9600	4800	C-1, E-C

6. CHARACTER FORMAT
   FACTORY DELIVERY FORMAT IS THE ASCII 7-BIT CODE FOR ASYNCHRONOUS OPERATION: 1 START BIT, 7 DATA BITS IN ASCII CODES, 1 EVEN PARITY BIT AND 1 STOP BIT. IT CAN BE ALTERED BY SELECTING THE FOLLOWING JUMPERS:
   6.1 PARITY JUMPER (IPS/) - ODD PARITY: J1 JUMPER IN
   EVEN PARITY: J1 JUMPER OUT
   6.2 STOP BITS JUMPER (12SB/) - 2 STOP BITS: J4 JUMPER IN
   1 STOP BIT: J4 JUMPER OUT
   6.3 DATA BITS JUMPERS (INB1/, INB2/)

DATA BITS	JUMPERS
5	NONE
6	J3
7	J2
8	J2,J3

7. DATA SET ACCOMODATION JUMPERS:
   FOR OTHER THAN THE NORMAL SOFTWARE SELECTION OF THE TRANSMISSION RATE, REMOVE JUMPER DS RATE/-RATE AND ALTER BY SELECTING FROM THE FOLLOWING JUMPERS:

	JUMPER
STF	STF/8-RATE
DS RATE SW (MANUAL SELECTION)	DS RATE SW-RATE

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W
ALL RESISTOR PKG RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W

REV		
A	ER 62245	
B	ECN 62512 2-19-79 SHEET 1 AFFECTED	
C	ECN 62684 SHEET 1&2 AFFECTED	
D	ECN 62787 SHEET 1,2,3 AFFECTED	
E	ECN 62717 PAGES 1&2 AFFECTED	
F	ECN 63244 PAGE 1 AFFECTED	

RELEASED 8-1-78 | 2769 4942 | PAGE 1 OF 3

C.C.2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT U.S.A.

TITLE	SCHEMATIC, BOARD, ADC CONTROLLER
SYSTEM	
DRAWN	ED KARAS 9-25-78
CHECKED	10-4-78
APPROVED	10-6-78
RELEASED	8-1-78
DWG. NO.	2769 4959
REV LETTER	F
PAGE	1 of 3

BDS-36

INPUT

SCHEMATIC

OUTPUT

B44 ← SSW2
B43 ← SSW1
3 DSRATE/
D30 * RING/
D08 * DSR/
B49 ← LINETSW
B07 ← MTRSW
3 STF
3 RTS/
3 DTRDY/
3 TXDATA/
D05 * RCDATA
D34 * CLRSND/
D07 * RCAR/
A36 ← ADDR
B26 ← ADDR/
A50 ← PHI1L/
A51 ← PHI2L/
A54 ← PHI2H/
A53 ← PHI1H/

DS RATE SW
DS RATE/ RATE
STF/O

RSS2/ 3
RSS1/ 3
RATE → B39
RING-1/ 3
RING/ → B53
DSR/ → B11
STF/ * D22
REQSND/ → B45
DTR/ → B47
TRDATA/ → B40
TXDATA/ * D09
DTRDY/ * D28
RTS-1/ * D11
RXDATA/ 3
DSRDY/ 3
CTS/ 3
DCD/ 3
RCDATA → B09
CLRSND/ → B51
RCAR/ → B05
ADDR/-1 3
ADDR * D58
PHI1L/-1 3
PHI2L/-1 3
PHI2H/-1 3
PHI1H/-1 3

C07, C23, C33, C19, C25, C27, C29

C17 .1uF ±20% 50V
C7 .1uF ±20% 50V
C8 .1uF ±20% 50V
C10 .1uF ±20% 50V
C9 .1uF ±20% 50V

R5 270
R7 680
R8 680
R10 680
R9 680
R11 1600
R12 1600
R14 1600
R13 1600

C15 PHI1H/-2
C39 PHI2H/-2
C11 PHI2L/2
C13 PHI1L/-2

J5

-12V

PAGE 2 OF 3
DWG. NO. 2769 4959

Burroughs Corporation — SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA	TITLE: SCHEMATIC, BOARD, ADC CONTROLLER		
	SYSTEM		DWG. NO. 2769 4959
	DRAWN: ED KARAS 9-22-78	CHECKED	
	APPROVED	RELEASED 8-1-78	REV LETTER F / PAGE 2 of 3

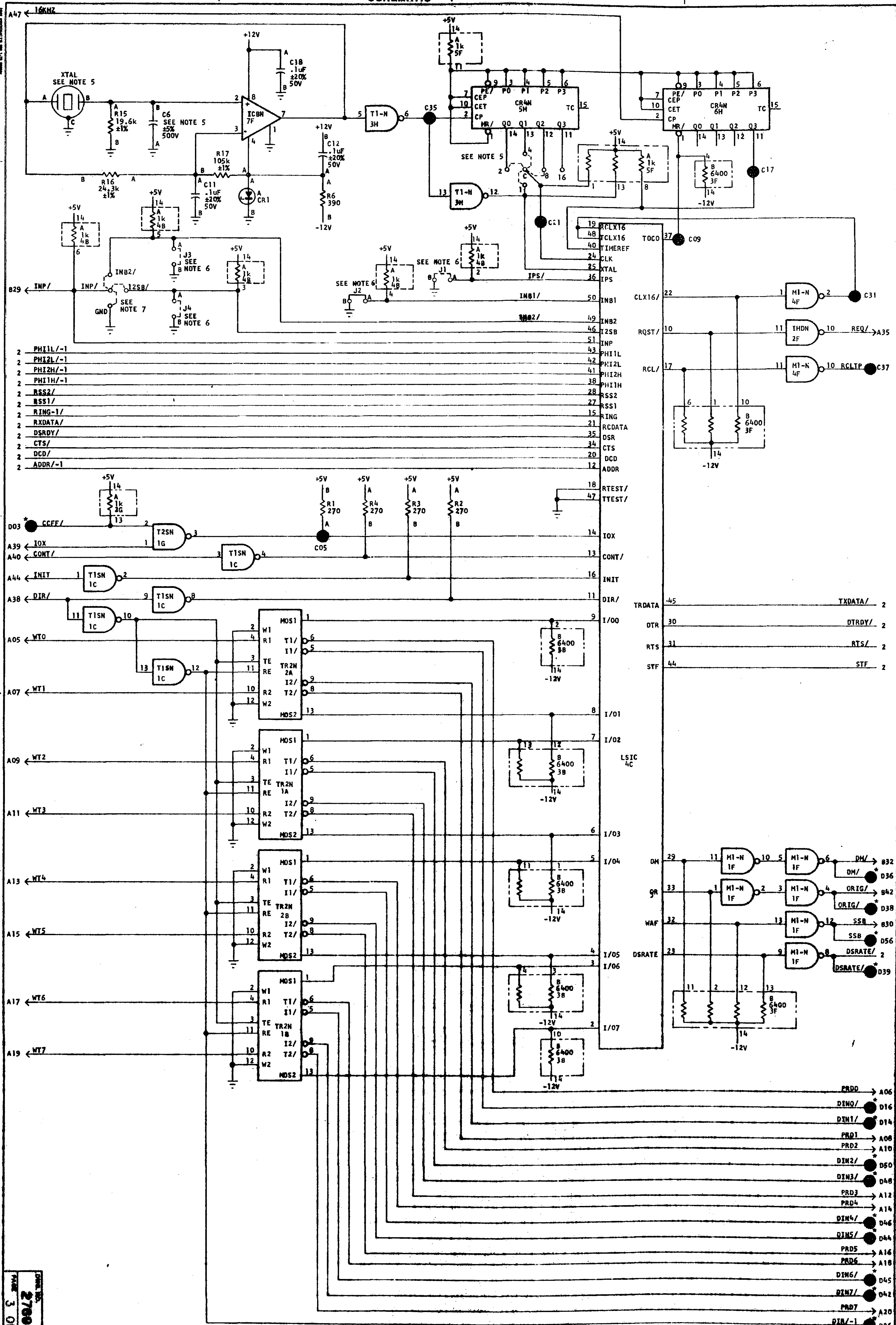
PROPRIETARY TO BURROUGHS — NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT BY BURROUGHS OR FROM WRITTEN CONSENT.

FORM PLY 47 FR

INPUT

SCHEMATIC

OUTPUT



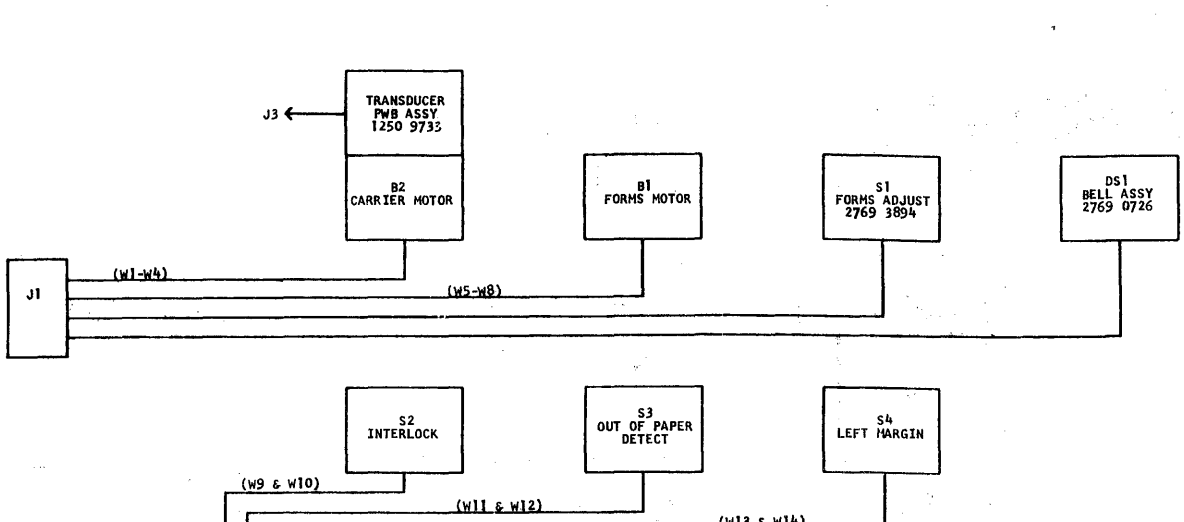
16KHZ
XTAL
SEE NOTE 5
R15
19.6k
±1%
C6
SEE NOTE 5
±5%
500V
+12V
C18
.1uF
±20%
50V
IC8N
7F
T1-N
3H
C35
+5V
1k
5F
CR4N
5H
CR4N
6H
PE/
CEP
CET
CP
MR/
P0
P1
P2
P3
Q0
Q1
Q2
Q3
TC
C12
.1uF
±20%
50V
R17
105k
±1%
R16
24.3k
±1%
C11
.1uF
±20%
50V
CR1
R6
390
-12V
SEE NOTE 5
6400
3F
C17
C21
C09
J3
SEE NOTE 6
J4
SEE NOTE 6
INB2/
INP/
I2SB/
GND
SEE NOTE 7
INP/
J1
J2
IPS/
INB1/
INB2/
RCLX16
TCLX16
TIMEREF
CLK
XTAL
IPS
INB1
INB2
I2SB
INP
PHI1L
PHI2L
PHI2H
PHI1H
RSS2
RSS1
RING
RCDATA
DSR
CTS
DCD
ADDR
TOCO
CLX16/
RQST/
RCL/
M1-N
4F
1HDN
2F
M1-K
4F
REQ/
RCLTP
C31
C37
A35
A47
B29
PHI1L/-1
PHI2L/-1
PHI2H/-1
PHI1H/-1
RSS2/
RSS1/
RING-1/
RXDATA/
DSRDY/
CTS/
DCD/
ADDR/-1
RTEST/
TTEST/
CCFF/
IOX
CONT/
INIT
DIR/
D03
A39
A40
A44
A38
T2SN
1G
T1SN
1C
R1
R4
R3
R2
270
C05
IOX
CONT/
INIT
DIR/
TRDATA
DTR
RTS
STF
TXDATA/
DTRDY/
RTS/
STF
MOS1
MOS2
W1
R1
TE
RE
R2
W2
T1/
I1/
I2/
T2/
TR2N
2A
1A
2B
1B
WT0
WT1
WT2
WT3
WT4
WT5
WT6
WT7
A05
A07
A09
A11
A13
A15
A17
A19
I/00
I/01
I/02
I/03
I/04
I/05
I/06
I/07
6400
3B
LSIC
4C
DM
OR
WAF
DSRATE
M1-N
1F
DM/
ORIG/
SSB
DSRATE/
B32
D36
B42
D38
B30
D56
D39
PRD0
DIN0/
DIN1/
PRD1
PRD2
DIN2/
DIN3/
PRD3
PRD4
DIN4/
DIN5/
PRD5
PRD6
DIN6/
DIN7/
PRD7
DIR/-1
A06
D16
D14
A08
A10
D50
D48
A12
A14
D46
D44
A16
A18
D45
D42
A20
D26

DWG. NO. 2769 4959 PAGE 3 OF 3

Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT
U. S. AMERICA

PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS WRITTEN CONSENT

TITLE	SCHEMATIC, BOARD, ADC CONTROLLER		
SYSTEM		DWG. NO.	2769 4959
DRAWN ED KARAS 9-22-78	CHECKED		
APPROVED	RELEASED 8-1-78	REV LETTER F	PAGE 3 OF 3



NOTES:

1. FOR 9 PIN PRINTER PWB SEE 1250 9147.
2. FOR INTERLOCK SWITCH PWB SEE 2769 0742.
3. W1 THRU W8 PART OF ASSEMBLY 2769 0197.
   W9 THRU W14 PART OF ASSEMBLY 2769 0817.

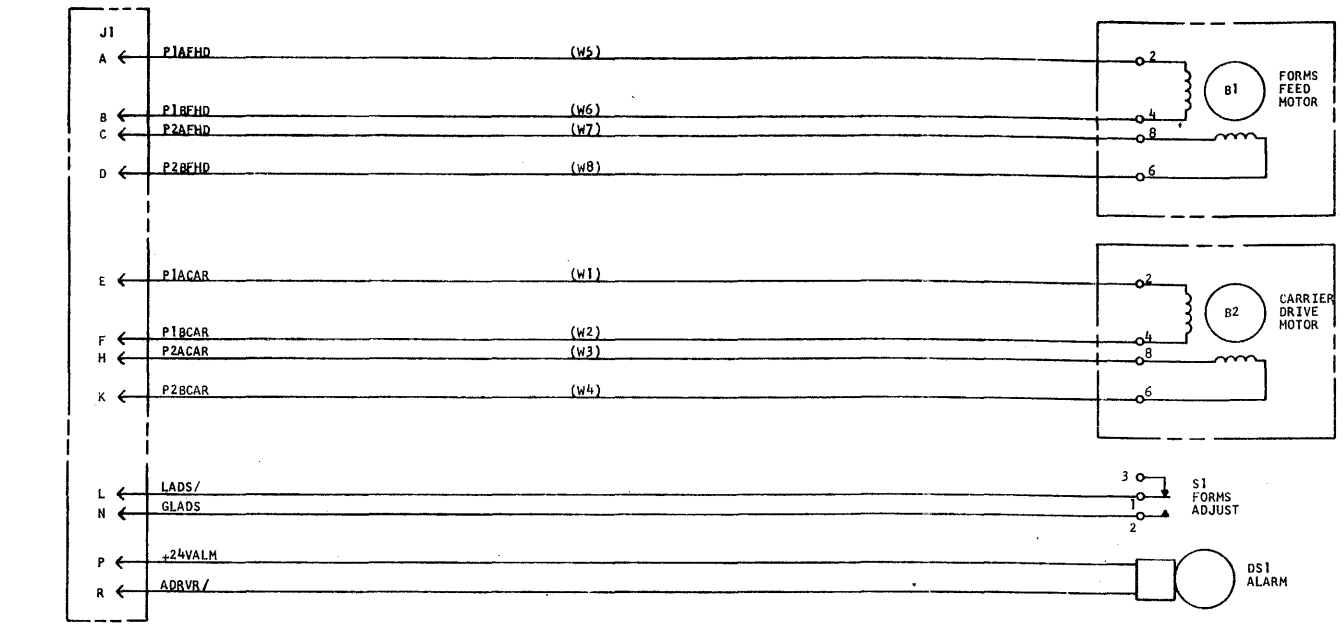
PAGE 1 OF 2	DRG. NO. 2769 5204	RELEASED 8-1-78	REV. Y	ER 60139

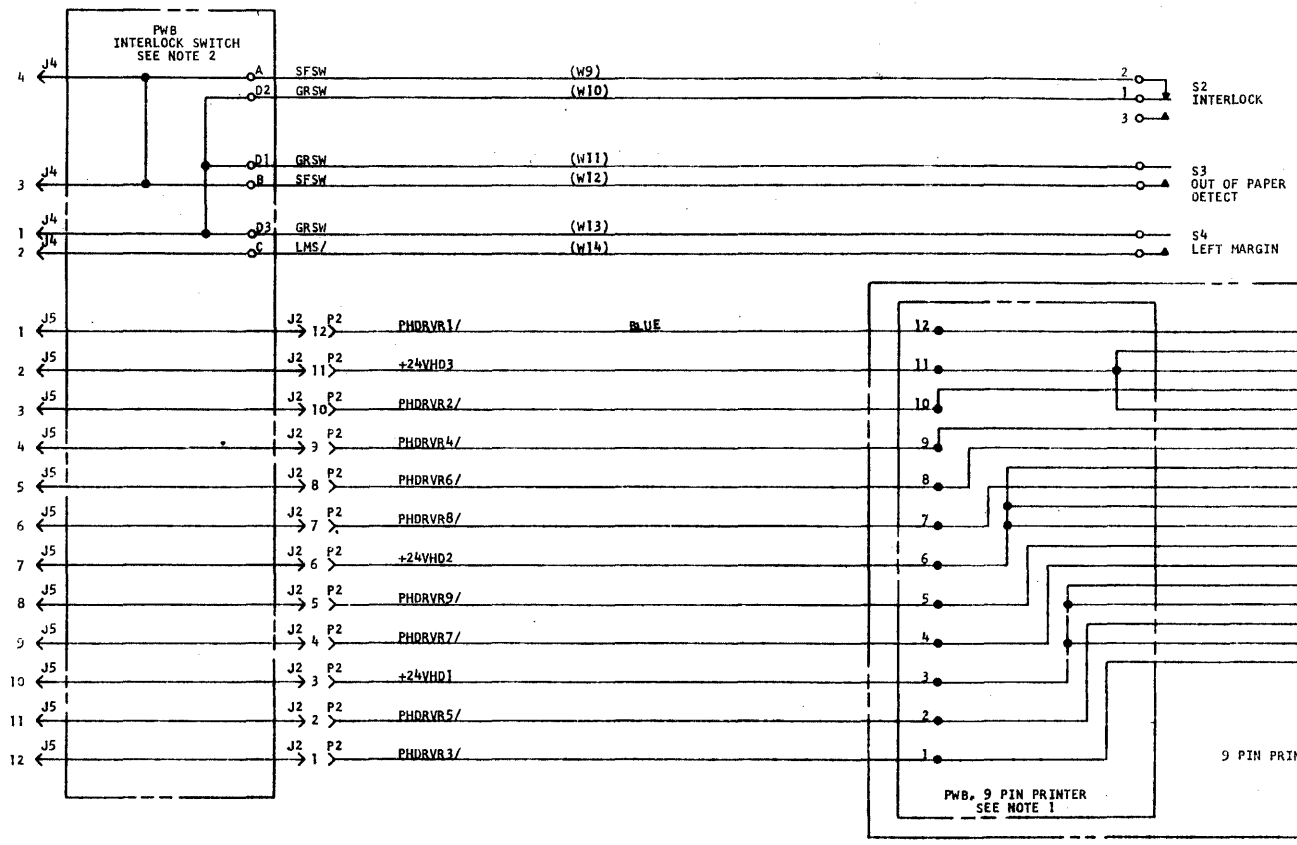
Burroughs Corporation

SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA

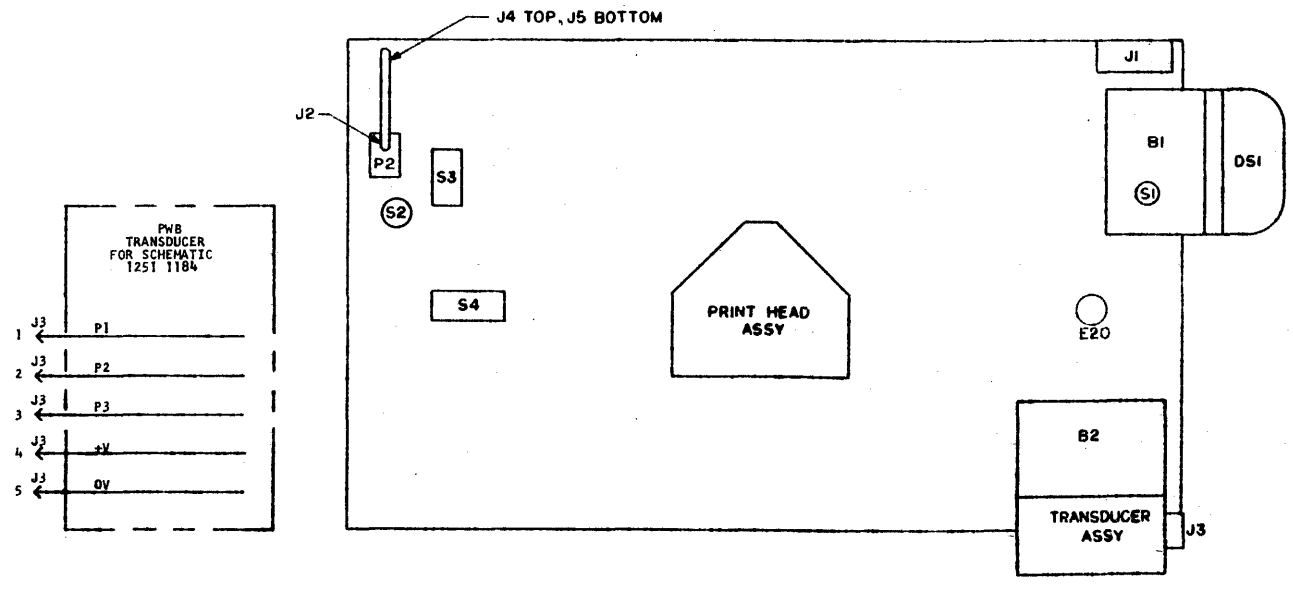
TITLE: WIRING SCHEMATIC, BD20-10 PRINTER			DWG. NO. 2769 5204
SYSTEM			
DRAWN WAISEL 2-13-79	CHECKED S.GALA 2-19-79		
APPROVED 3-7-79	RELEASED 8-1-78	REV LETTER A	PAGE 1 OF 2

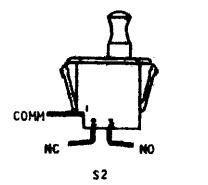
FORM PLY 67 [illegible]

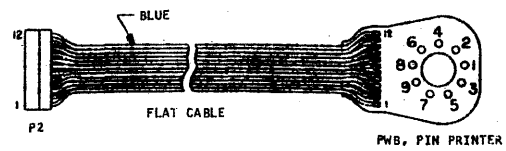




VISUAL AIDS





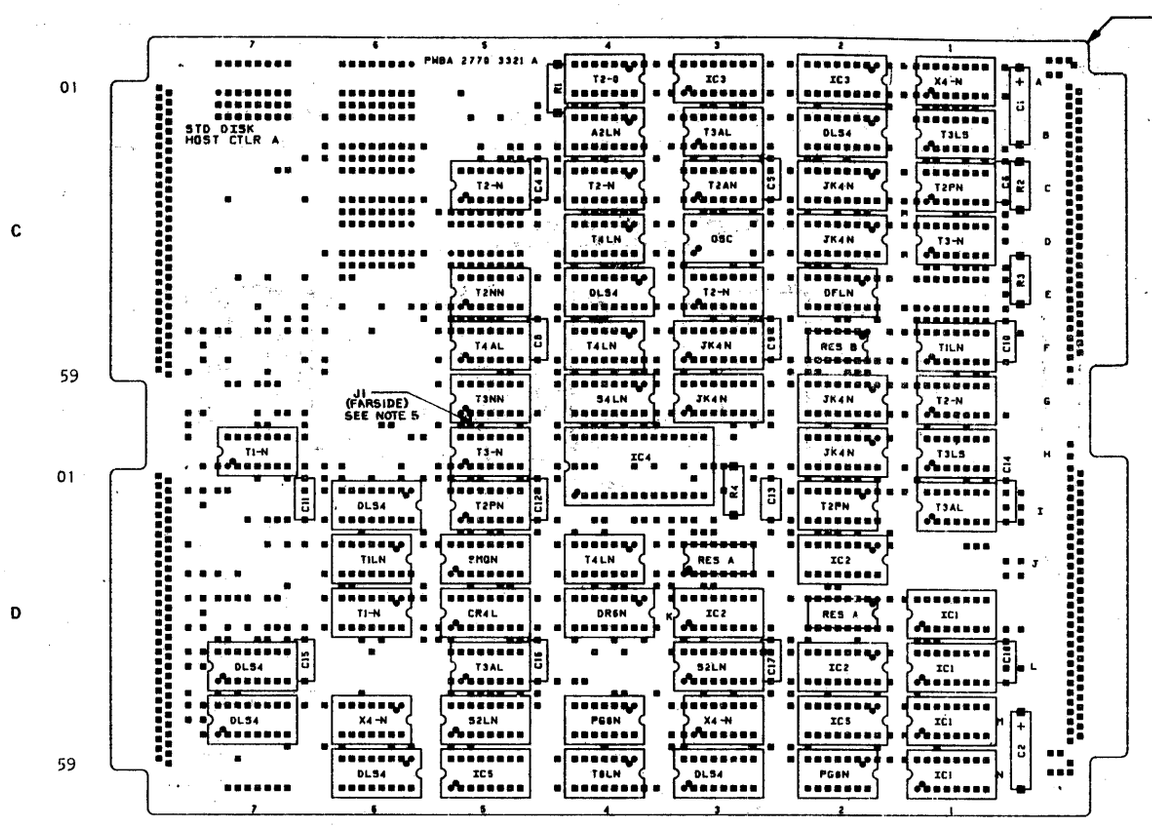


DWG. NO. 2769 5204
PAGE 2 OF 2

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U. S. AMERICA

TITLE	WIRING SCHEMATIC, BD20-10 PRINTER		
SYSTEM		DWG. NO.	2769 5204
DRAWN MAISEL 2-13-79	CHECKED S. BALA 2-19-79		
APPROVED	RELEASED 8-1-78	REV LETTER A	PAGE 2 OF 2

FORM PLY 47 PR



LOCATION IDENTIFIER	DESCRIPTION	PART NO.	REQD
1A,3M,6M	I.C. X4-N	1447 3698	3
1B,1H	I.C. T3LS	2607 1811	2
1C,2I,5I	I.C. T2PN	2607 1787	3
1D,5H	I.C. T3-N	1447 3540	2
1F,6J	I.C. T1LN	2607 1803	2
1G,3E,4C,5C	I.C. T2-N	1447 3516	4
1I,3B,5L	I.C. T3AL	1545 0620	3
1K,1L,1M,1N	I.C. IC1	2767 4498	4
2A,3A	I.C. IC3	2769 3381	2
2B,3N,4E,6I, 6N,7L,7M	I.C. DLS4	2846 6746	7
2C,2D,2G,2H 3F,3G	I.C. JK4N	1517 0988	6
2E	I.C. DFLN	2846 6696	1
2F	RES PKG, 1k, RES B	2108 4827	1
2J,2L,3K	I.C. IC2	2767 4506	3
2K,3J	RES PKG,100,1/4W, RES A	2719 7615	2
2M,5N	I.C. IC5	2848 5001	2
2N,4M	I.C. PG8N	2472 5616	2
3C	I.C. T2AN	1447 3524	1
3D	I.C. OSC	2852 3355	1
3L,5M	I.C. S2LN	2608 2073	2
4A	I.C. T2-O	2603 8653	1
4B	I.C. A2LN	2846 6647	1
4D,4F,4J	I.C. T4LN	2846 6654	3
4G	I.C. S4LN	2846 6712	1
4I	I.C. IC4	2769 5725	1
4K	I.C. DR6N	1449 1260	1
4N	I.C. T8LN	2846 6662	1
5E	I.C. T2NN	2600 4911	1
5F	I.C. T4AL	2769 1765	1
5G	I.C. T3NN	2600 4929	1
5J	I.C. SMQN	2769 3571	1
5K	I.C. CR4L	2846 6738	1
6K,7H	I.C. T1-N	1447 3532	2
1A,1B,1C,1D 1F,1G,1H,1I, 2E,2I,2N,3B, 3C,3E,3M,4A, 4B,4C,4D,4F, 4J,4M,4N,5C, 5E,5F,5G,5H, 5I,5L,6J,6K, 6M,7H	14 PIN SOCKET	2603 8281	34

NOTES:
1. FOR SCHEMATIC SEE 2770 3313
2. MAX HEIGHT OF I.C. PACKAGES IN SOCKETS .450 FROM BOARD SURFACE.
3. I.C. PACKAGES SHALL BE INSERTED IN SOCKETS AFTER FLOW SOLDER.
4. LATEST ASSEMBLY REV LEVEL MUST APPEAR ON THE BOARD SURFACE.
5. ADD 1142 8075 (FARSIDE) BETWEEN: IC POS 5G PIN 2 AND VIA HOLE DIRECTLY BELOW IC POS 5G PIN 2.

UNLESS OTHERWISE SPECIFIED:
MAX HEIGHT OF COMPONENTS .38 FROM BOARD SURFACE.
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F.
LEAD PROTRUSION FROM BOARD SURFACE .06 MAX.
ALL RESISTOR VALUES ARE IN OHMS, ±5%, 1/4W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.

LOCATION IDENTIFIER	DESCRIPTION	PART NO.	REQD
1K,1L,1M,1N 2A,2B,2C,2D, 2G,2H,2J,2L, 2M,3A,3F,3G, 3K,3L,3N,4E, 4G,4K,5J,5K, 5M,5N,6I,6N, 7L,7M	16 PIN SOCKET	2603 8299	30
4I	28 PIN SOCKET	1449 5618	1
C1,C2	6.8uF ±20% 35V	1267 9155	2
C4-C6,C8-C18	.01uF ±20% 50V	2300 5697	14
R1,R4	240	1268 1169	2
R2,R3	1k	1268 1318	2
J1	JUMPER	1142 8075	AR

C.C.2-7045

Burroughs Corporation
SMALL SYSTEMS GROUP — PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 — U. S. AMERICA

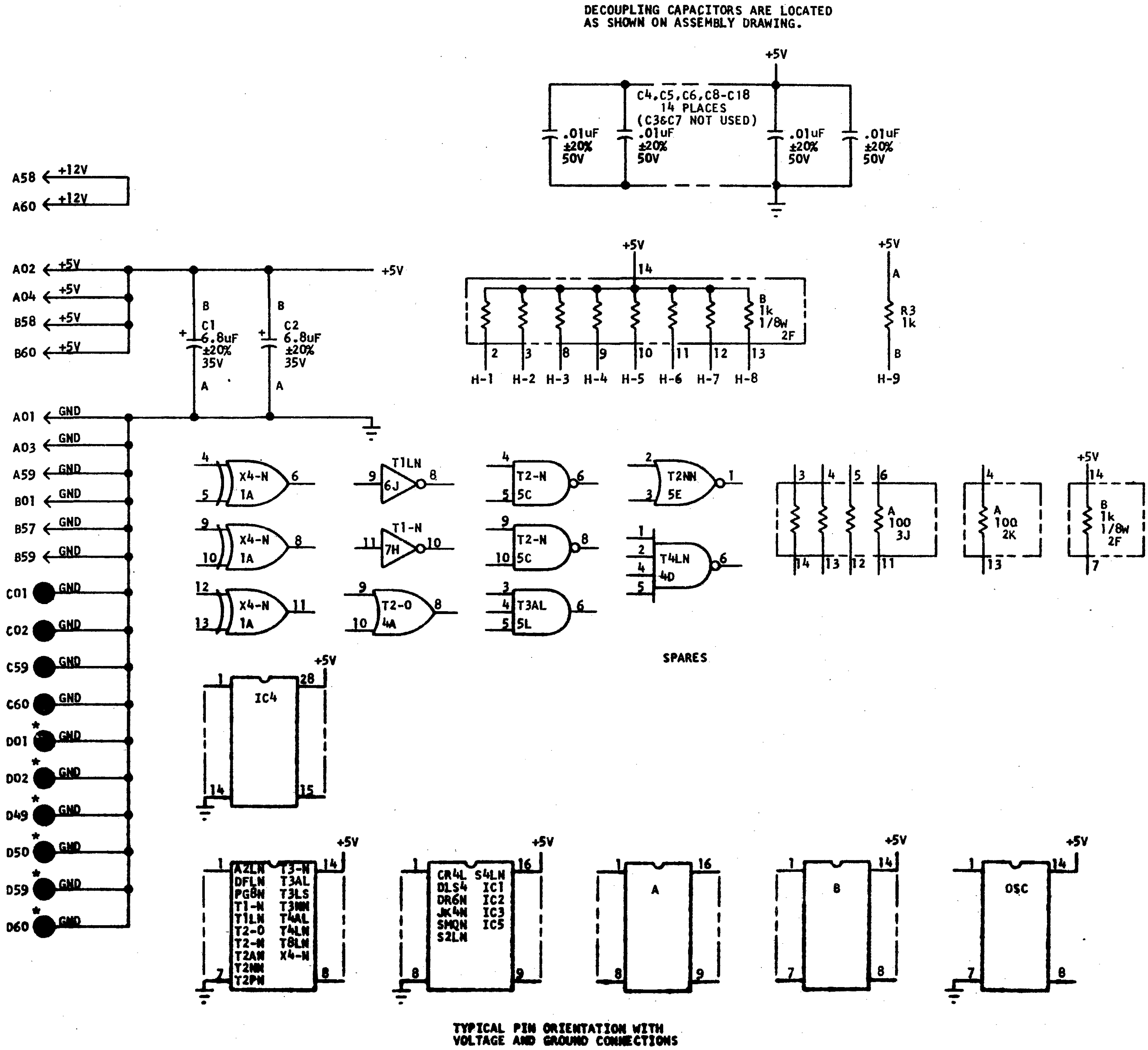
TITLE: BOARD ASSEMBLY, PRINTED WIRING, STD DISK HOST CTLR A			
SYSTEM		DWG. NO.	2770 3321
DRAWN T.FISHER 10-29-79	CHECKED 11-13-79		
APPROVED 11-14-79	RELEASED ECN 63040	REV LETTER A	PAGE 1 OF 1

FORM P1Y

NOTES:

1. FOR ASSEMBLY AND VISUAL AID SEE 2770 3321 REV A
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK (*) MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.

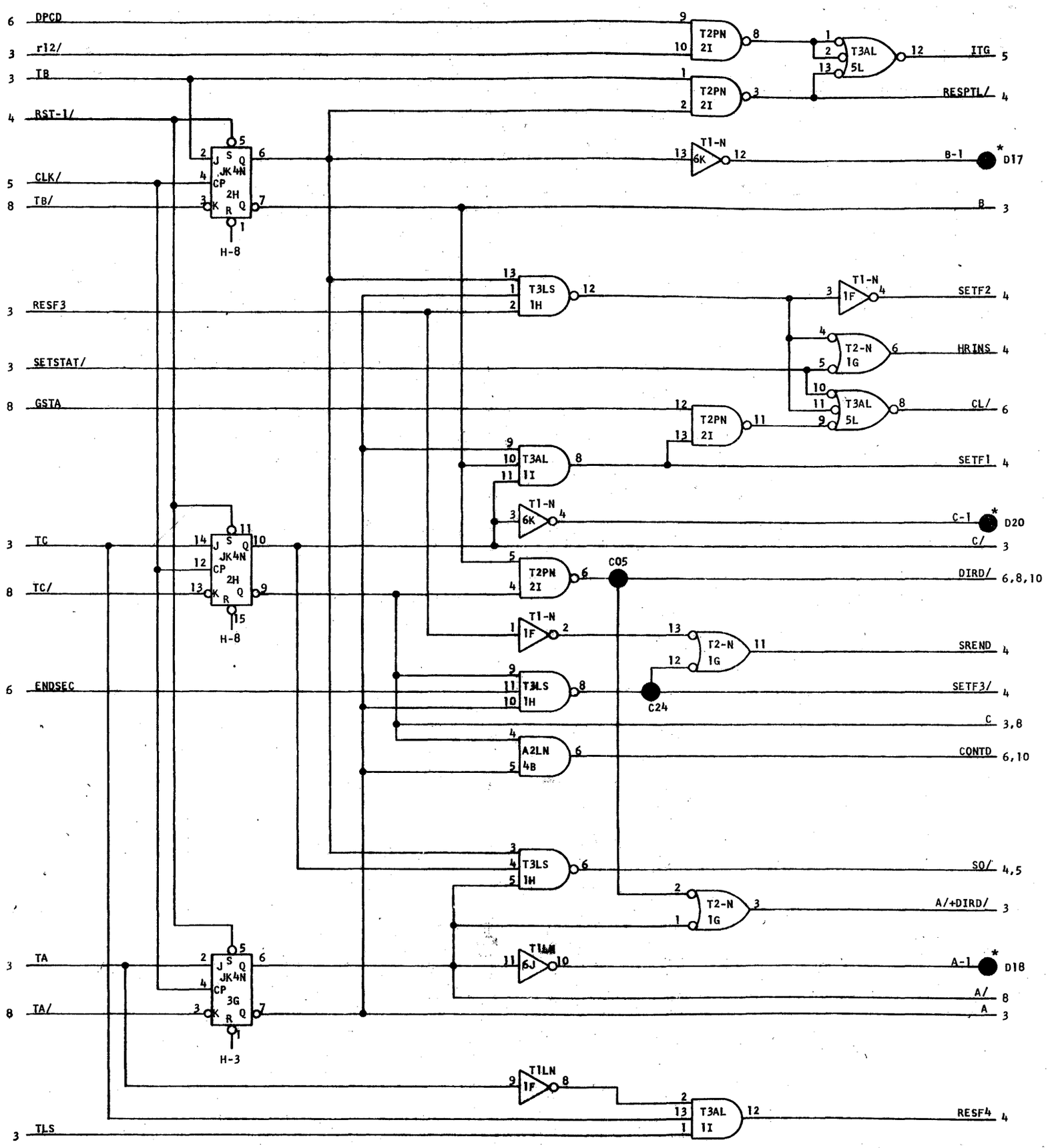
UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/4W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/4W.



C.C. 2-9520

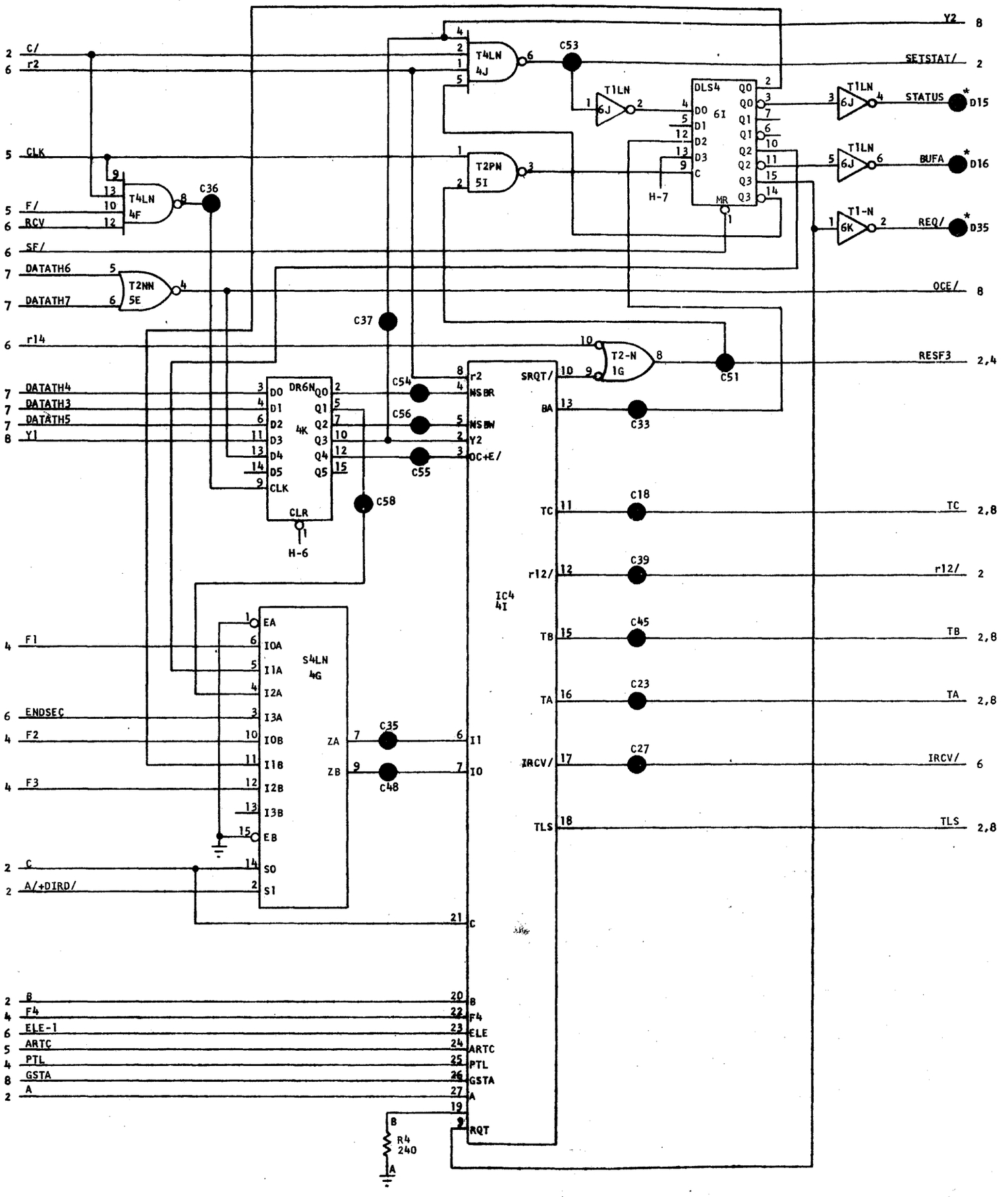
Burroughs Corporation SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 PLYMOUTH PLANT U. S. AMERICA	TITLE SCHEMATIC, BOARD, STD DISK HOST CTLR A		
	SYSTEM		DWG. NO. 2770 3313
	DRAWN J. MAISEL 11-7-79	CHECKED R. BELVILLE 11-9-79	
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.	APPROVED JMcAPO 11-15-79	RELEASED ECN 63040	REV LETTER A / PAGE 1 OF 10

J&H PRODUCTS 71586 FORM PLY F-



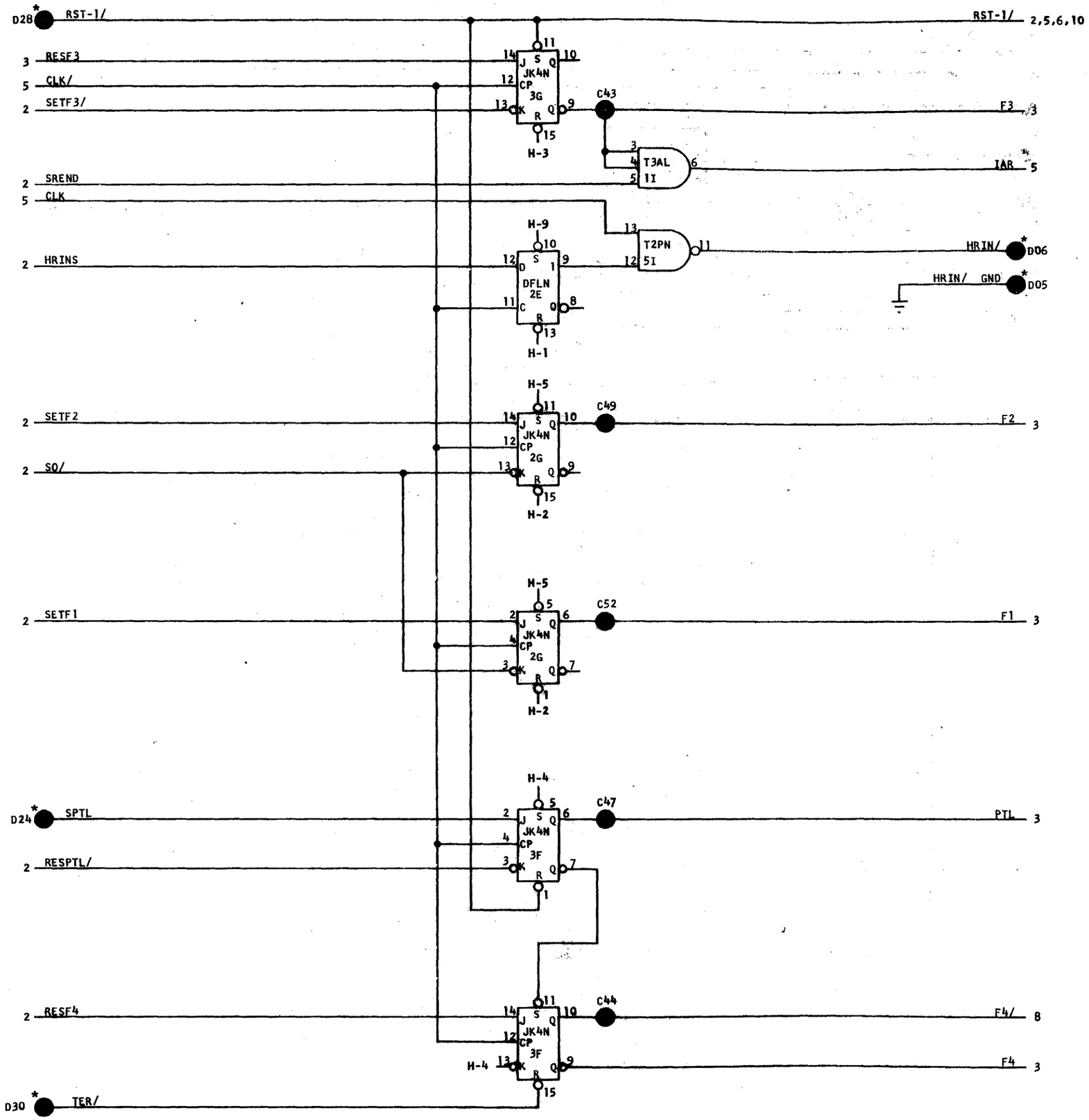
Burroughs Corporation SMALL SYSTEMS GROUP PLYMOUTH PLANT PLYMOUTH, MICHIGAN 48170 U. S. AMERICA	TITLE SCHEMATIC, BOARD, STD DISK HOST CTLR A		
	SYSTEM		DWG. NO. 2770 3313
	DRAWN E. KARAS 11-6-79	CHECKED R. DELVILLE 11-9-79	
	APPROVED	RELEASED ECN 63040	REV LETTER A / PAGE 2 OF 10

FORM P1Y



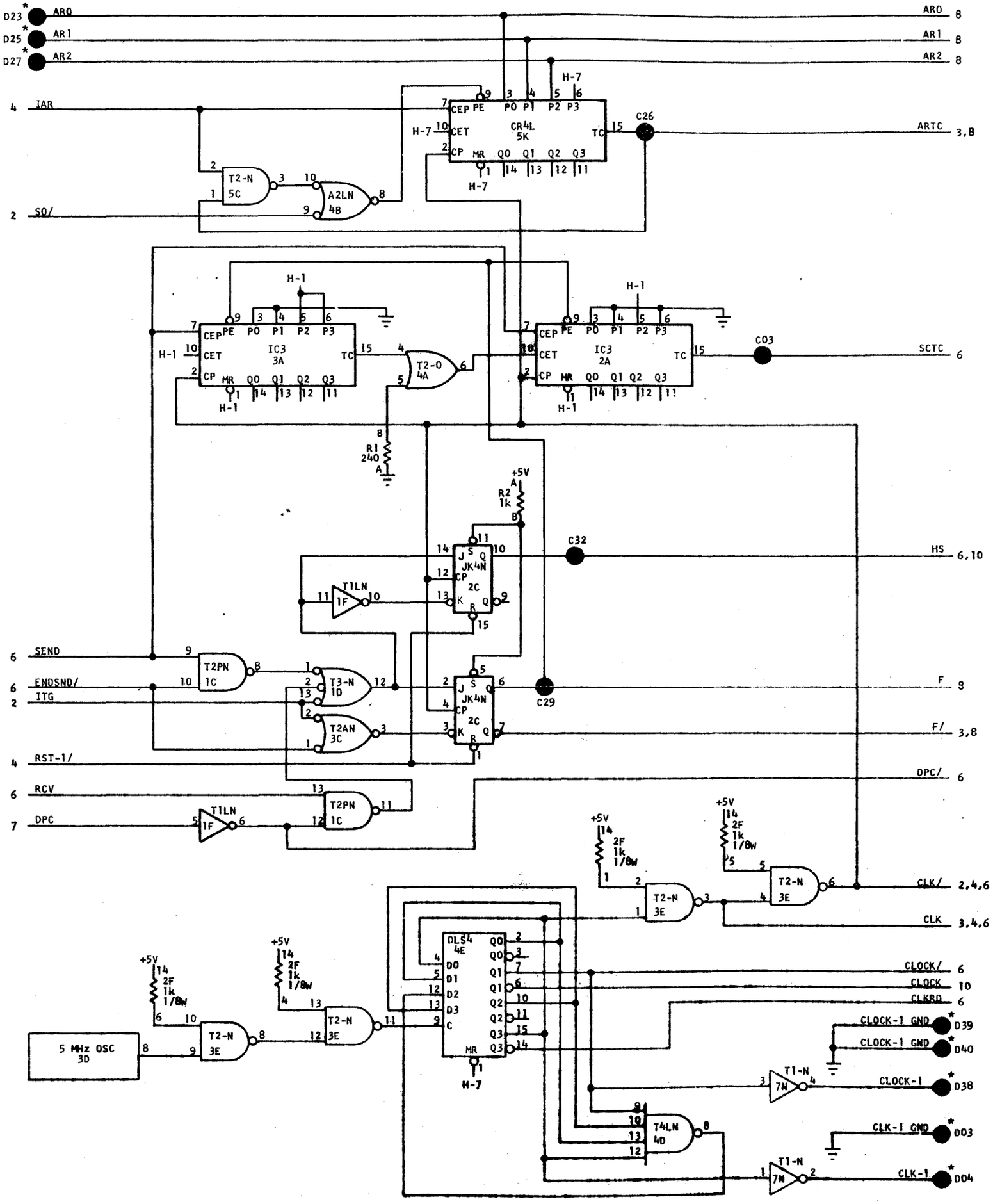
Burroughs Corporation	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR A		
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA	SYSTEM		DWG. NO. 2770 3313
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	DRAWN E. KARAS 11-2-79	CHECKED R. BELVILLE 11-9-79	
	APPROVED	RELEASED ECN 63040	REV LETTER A — PAGE 3 OF 10

FORM P1.Y



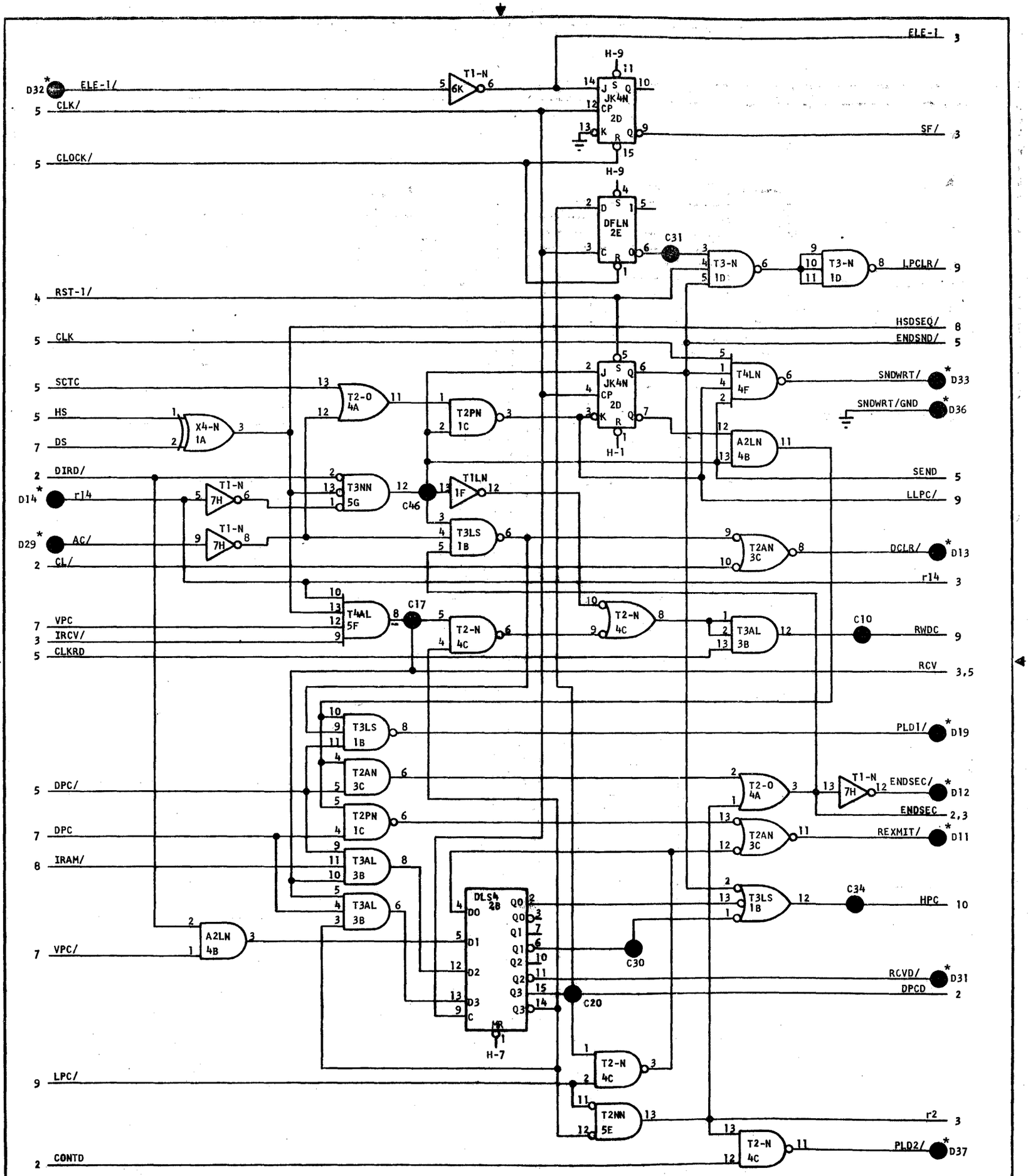
Burroughs Corporation SMALL SYSTEMS GROUP PLYMOUTH PLANT PLYMOUTH, MICHIGAN 48170 U.S. AMERICA	TITLE SCHEMATIC, BOARD, STD DISK HOST CTLR A		
	SYSTEM		DWG. NO. 2770 3313
	DRAWN E. KARAS 11-2-79	CHECKED R. BELVILLE 11-9-79	
	APPROVED	RELEASED ECN 63040	REV LETTER A
			PAGE 4 OF 10

FORM PLY



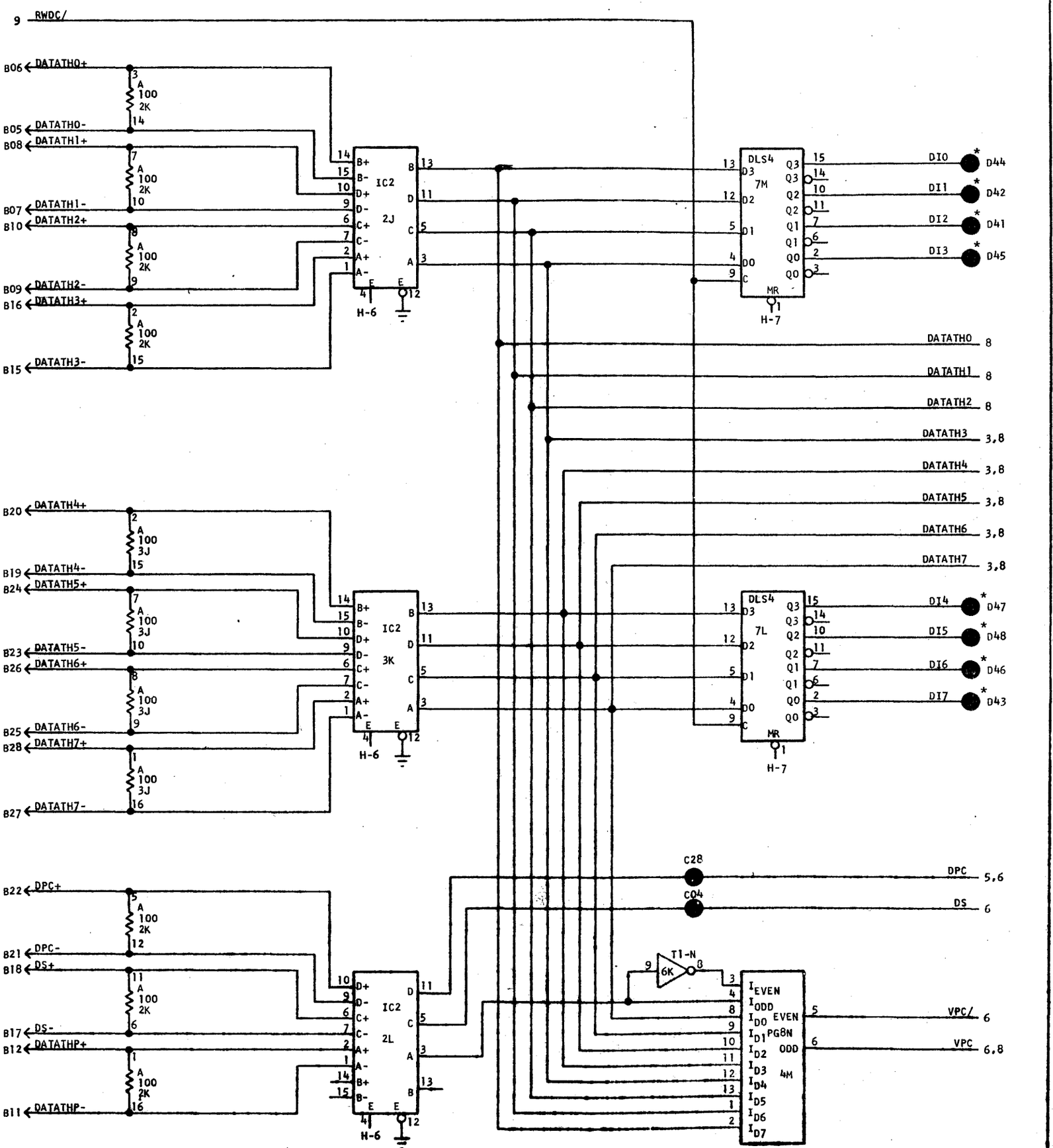
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR A		DWG. NO. 2770 3313
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	SYSTEM		
	DRAWN J. MAISEL 10-23-79	CHECKED R. BELVILLE 11-5-79	
	APPROVED	RELEASED ECN 63040	REV LETTER A — PAGE 5 OF 10

FORM FL1



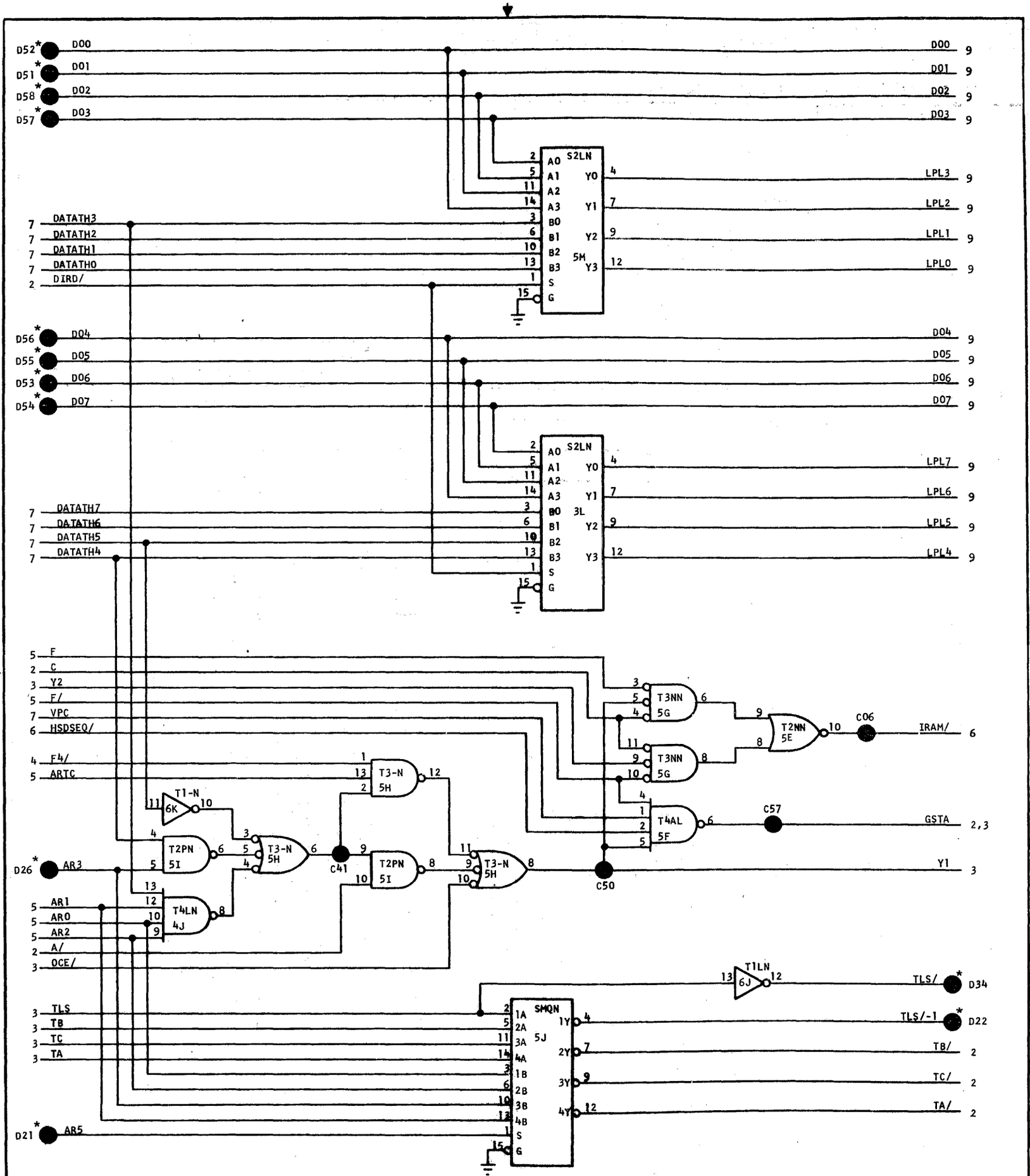
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR A		DWG. NO. 2770 3313
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	SYSTEM		
	DRAWN: J. MAISEL 10-22-79	CHECKED: R. BELVILLE 11-9-79	
	APPROVED	RELEASED: ECN 63040	REV LETTER: A — PAGE: 6 OF 10

FORM P1-Y



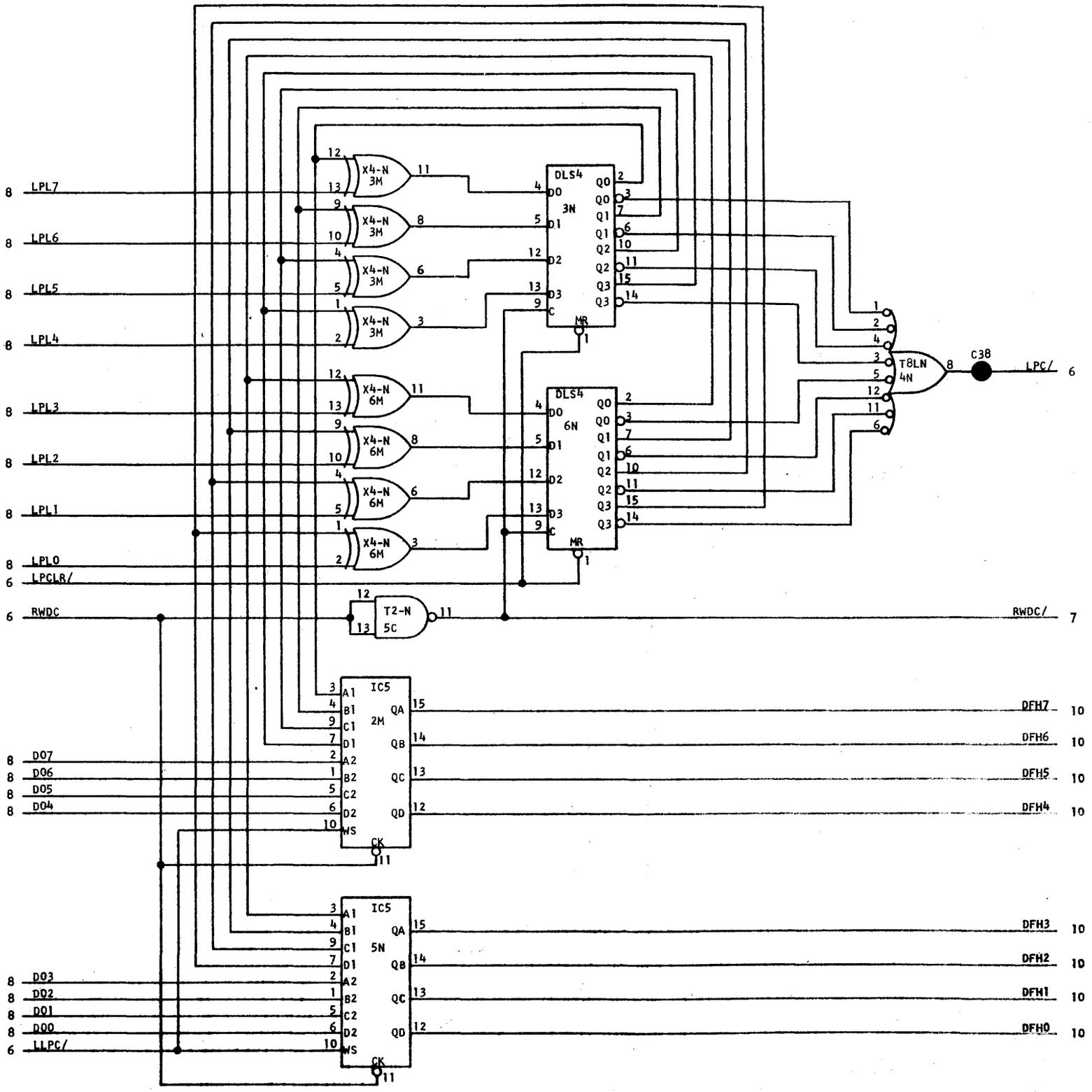
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR A		DWG. NO. 2770 3313
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	SYSTEM		
	DRAWN: MAISEL 10-24-79	CHECKED: R. BELVILLE 11-9-79	
	APPROVED	RELEASED: ECN 63040	REV LETTER: A — PAGE: 7 OF 10

FORM M-Y

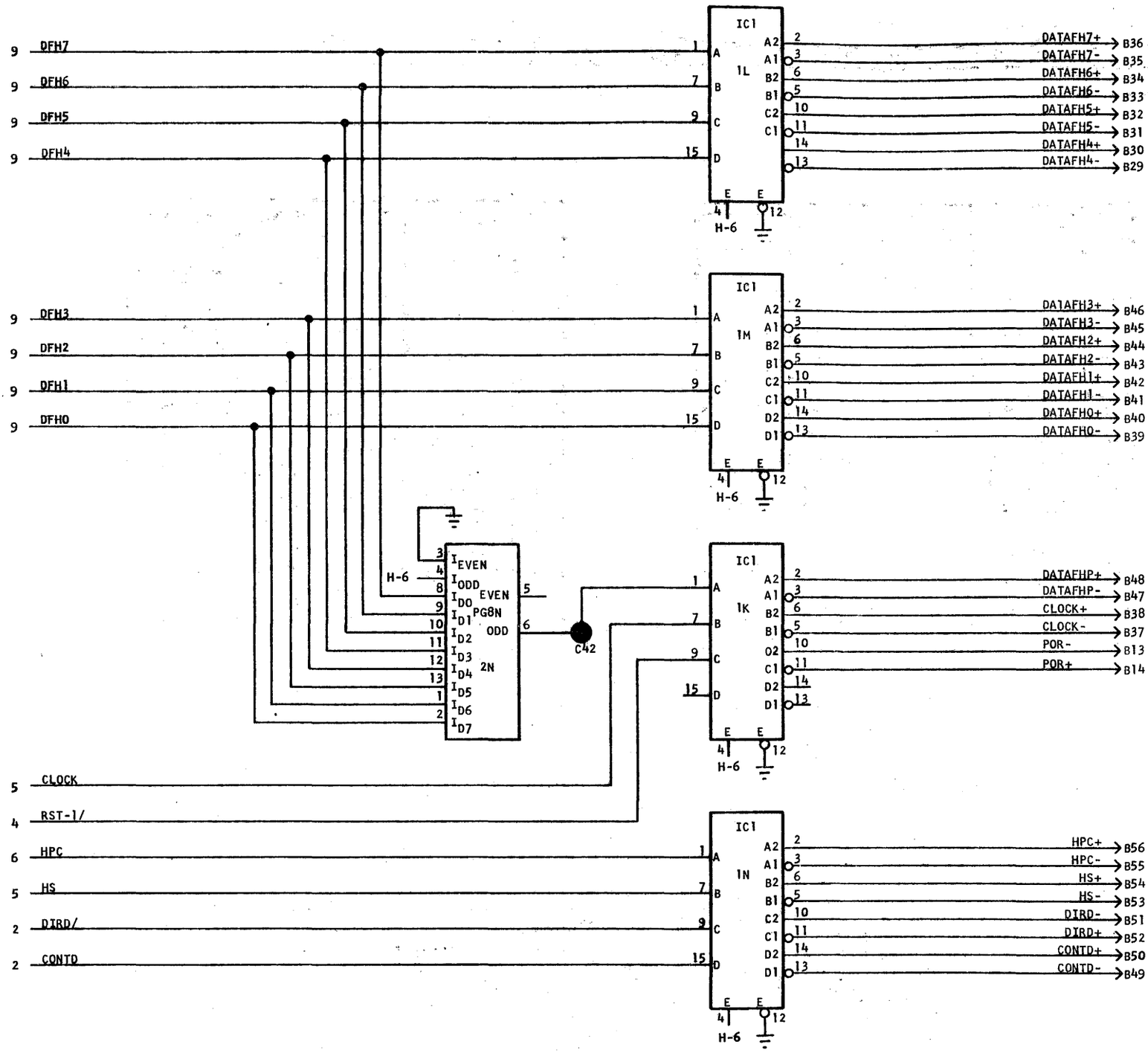


Burroughs Corporation SMALL SYSTEMS GROUP PLYMOUTH PLANT PLYMOUTH, MICHIGAN 48170 U. S. AMERICA	TITLE SCHEMATIC, BOARD, STD DISK HOST CTLR A		DWG. NO. 2770 3313
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	SYSTEM		
	DRAWN J. MAISEL 10-24-79	CHECKED R. BELVILLE 11-9-79	
	APPROVED	RELEASED ECN 63040	REV LETTER A
			PAGE 8 OF 10

FORM FL1

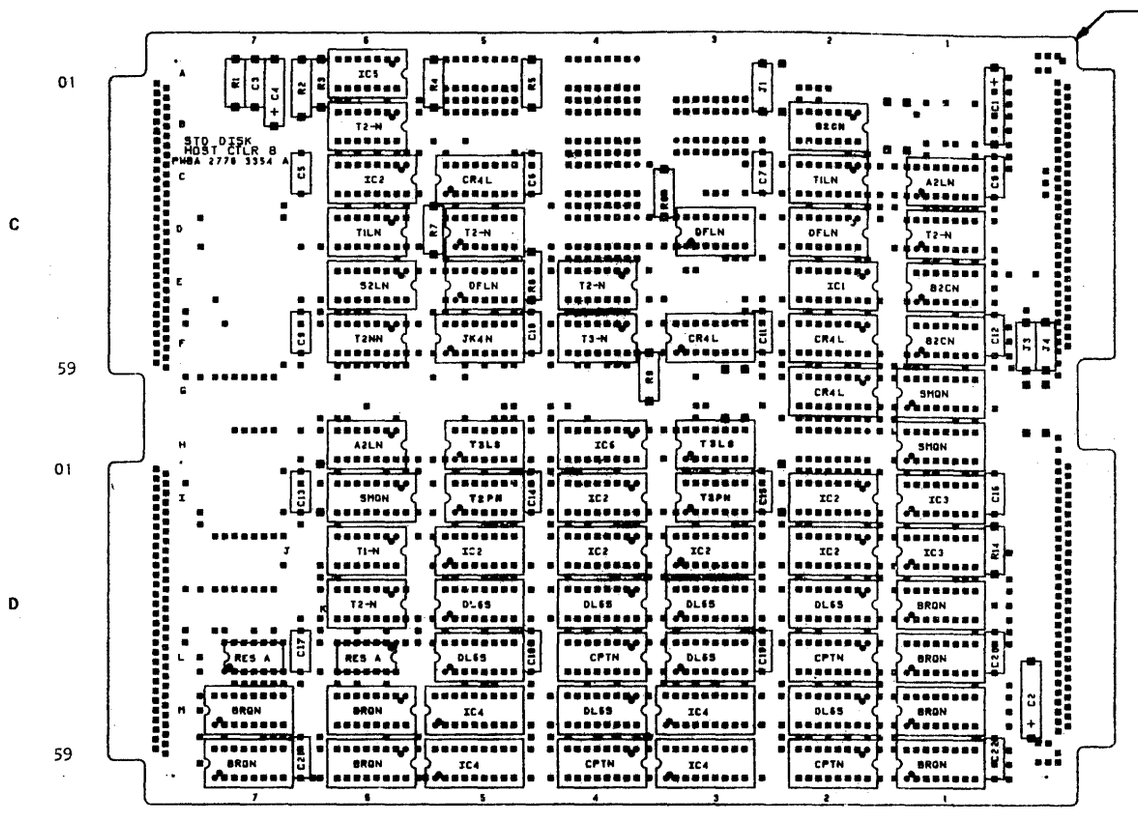


Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR A		
	SYSTEM		DWG. NO. 2770 3313
	DRAWN J. MAISEL 10-24-79	CHECKED R. BELVILLE 11-9-79	
	APPROVED	RELEASED ECN 63040	REV LETTER A — PAGE 9 OF 10



TITLE	SCHEMATIC, BOARD, STD DISK HOST CTLR A
SYSTEM	
DRAWN	J. MAISEL 10-24-79
CHECKED	R. BELVILLE 11-9-79
APPROVED	
RELEASED	ECN 63040
DWG. NO.	2770 3313
REV LETTER	A
PAGE	10 OF 10

FORM PLY



PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

LOCATION IDENTIFIER	DESCRIPTION	PART NO.	REQD
1C,6H	I.C. A2LN	2846 6647	2
1D,4E,5D,6B	I.C. T2-N	1447 3516	5
6K			
1E,1F,2B	I.C. B2CN	1447 3581	3
1G,1H,6I	I.C. SMQN	2769 3571	3
1I,1J	I.C. IC3	2848 5001	2
1K,1L,1M,1N	I.C. BRQN	1270 8699	8
6M,6N,7M,7N			
2C,6D	I.C. T1LN	2607 1803	2
2D,3D,5E	I.C. DFLN	2846 6696	3
2E	I.C. IC1	2608 6280	1
2F,2G,3F,5C	I.C. CR4L	2846 6738	4
2I,2J,3J,4I	I.C. IC2	2769 3381	7
4J,5J,6C			
2K,2M,3K,3L,	I.C. DL6S	2608 6298	8
4K,4M,5K,5L			
2L,2N,4L,4N	I.C. CPTN	2601 2773	4
3H,5H	I.C. T3LS	2607 1811	2
3I,5I	I.C. T2PN	2607 1787	2
3M,3N,5M,5N	I.C. IC4	2769 3365	4
4F	I.C. T3-N	1447 3540	1
4H	I.C. IC6	1517 2935	1
5F	I.C. JK4N	1517 0988	1
6A	I.C. IC5	1538 6212	1
6E	I.C. S2LN	2608 2073	1
6F	I.C. T2NN	2600 4911	1
6J	I.C. T1-N	1447 3532	1
6L,7L	RES PKG, 4700, RES A	1536 9275	2
1C,1D,1E,1F	14 PIN SOCKET	2603 8281	23
2B,2C,2D,3D			
3H,3I,4E,4F			
5D,5E,5H,5I			
6A,6B,6D,6F			
6H,6J,6K			
1G,1H,1I,1J	16 PIN SOCKET	2603 8299	40
1K,1L,1M,1N			
2E,2F,2G,2I,			
2J,2K,2L,2M,			
2N,3F,3J,3K,			
3L,4H,4I,4J,			
4K,4L,4M,4N,			
5C,5F,5J,5K,			
5L,6C,6E,6I,			
6M,6N,7M,7N			
3M,3N,5M,5N	18 PIN SOCKET	2477 6361	4

NOTES:
1. FOR SCHEMATIC SEE 2770 3347
2. MAX HEIGHT OF I.C. PACKAGES IN SOCKETS .450 FROM BOARD SURFACE.
3. I.C. PACKAGES SHALL BE INSERTED IN SOCKETS AFTER FLOW SOLDER.
4. LATEST ASSEMBLY REV LEVEL MUST APPEAR ON THE BOARD SURFACE.

UNLESS OTHERWISE SPECIFIED:
MAX HEIGHT OF COMPONENTS .38 FROM BOARD SURFACE.
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F.
LEAD PROTRUSION FROM BOARD SURFACE .06 MAX.
ALL RESISTOR VALUES ARE IN OHMS, ±5%, 1/4W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.

LOCATION IDENTIFIER	DESCRIPTION	PART NO.	REQD
C1,C2	6.8uF ±20% 35V	1267 9155	2
C3, C5-22	.01uF ±20% 50V	2300 5697	19
C4	6.8uF ±20% 6V	1267 9148	1
J1,J3,J4	JUMPER	1377 1845	3
R1,R4-8,R14	1k	1268 1318	7
R2	499k ±1% 1/2W	1268 9493	1
R3	270k	1265 6435	1
R9	240	1268 1169	1

C.C. 2-7045

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE BOARD ASSEMBLY, PRINTED WIRING, STD DISK HOST CTLR B
SYSTEM
DRAWN T. FISHER 10-29-79
CHECKED 11-13-79
APPROVED 11-14-79
RELEASED ECN 63040
DWG. NO. 2770 3354
REV LETTER A
PAGE 1 OF 1

2770 3354

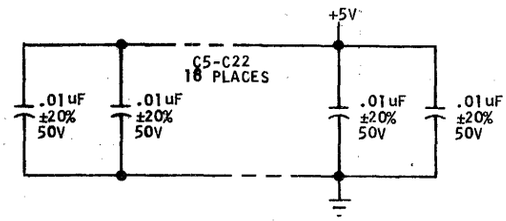
NOTES:

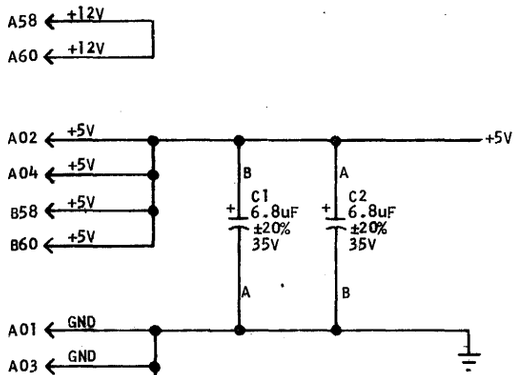
1. FOR ASSEMBLY AND VISUAL AID SEE 2770 3354 REV A
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK (*) MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.

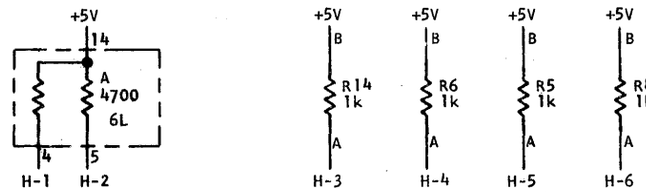
UNLESS OTHERWISE SPECIFIED:

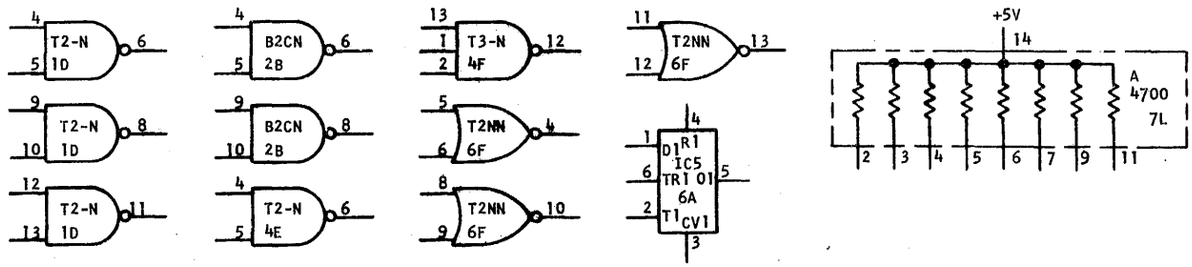
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/4W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W

DECOUPLING CAPACITORS ARE LOCATED AS SHOWN ON ASSEMBLY DRAWING.

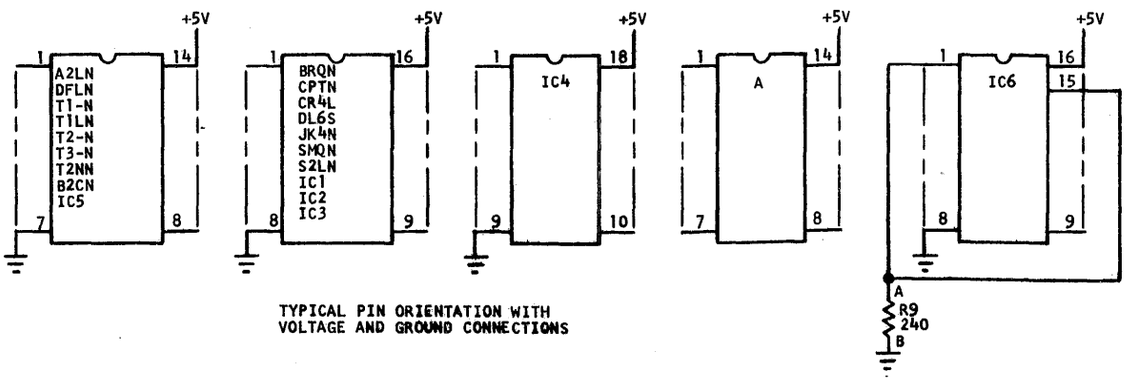








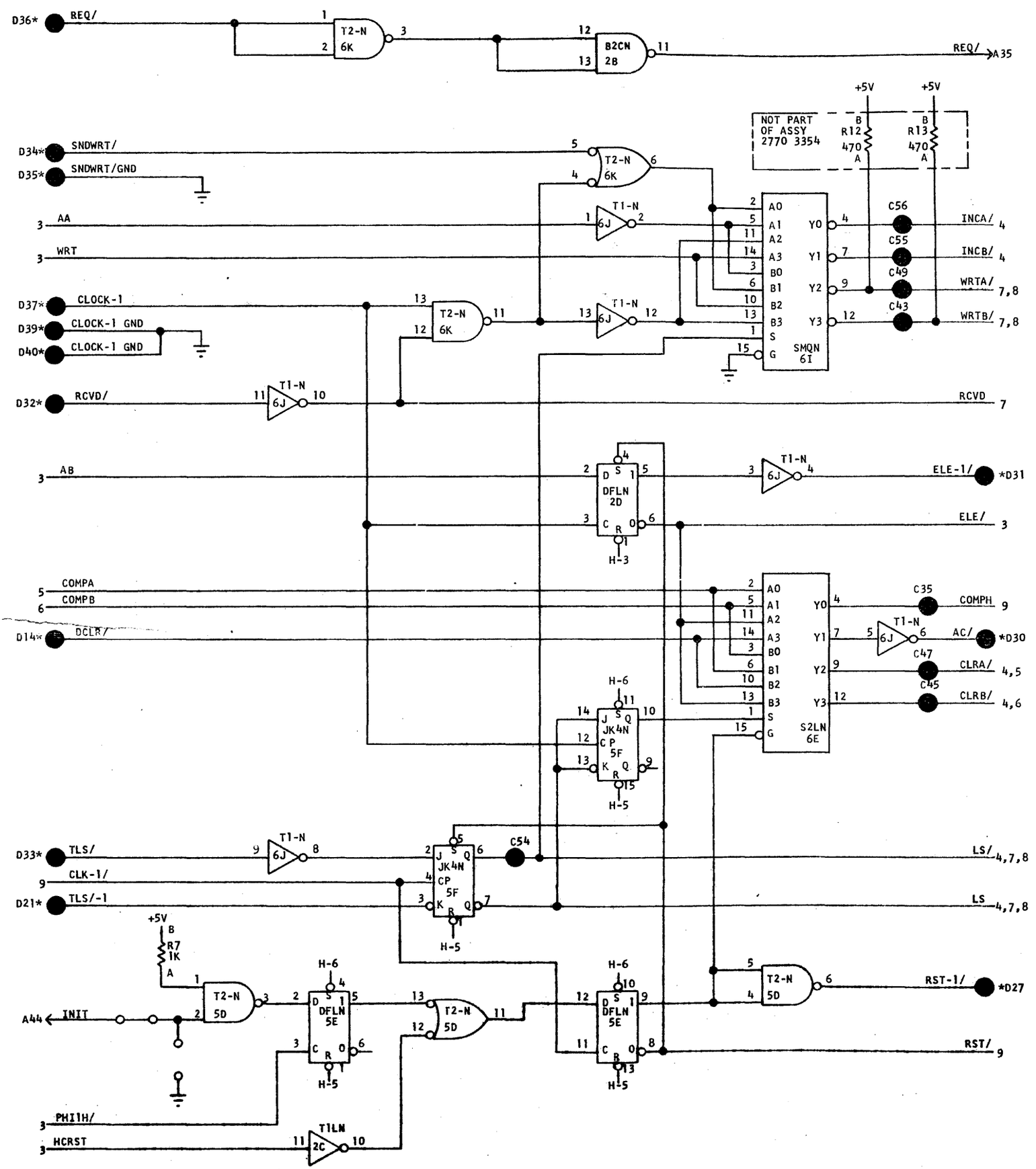
SPARES



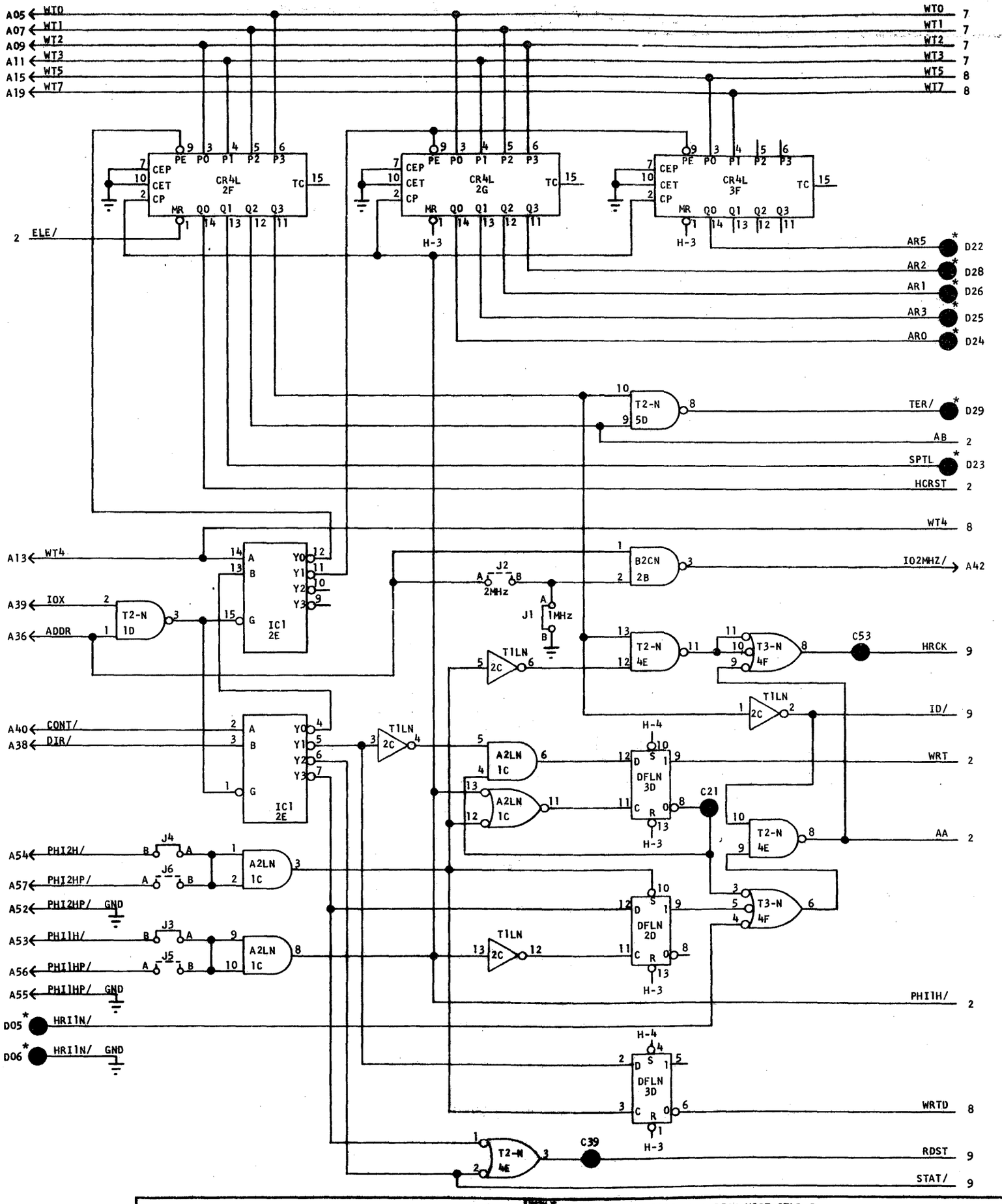
TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

C.C. 2-9520

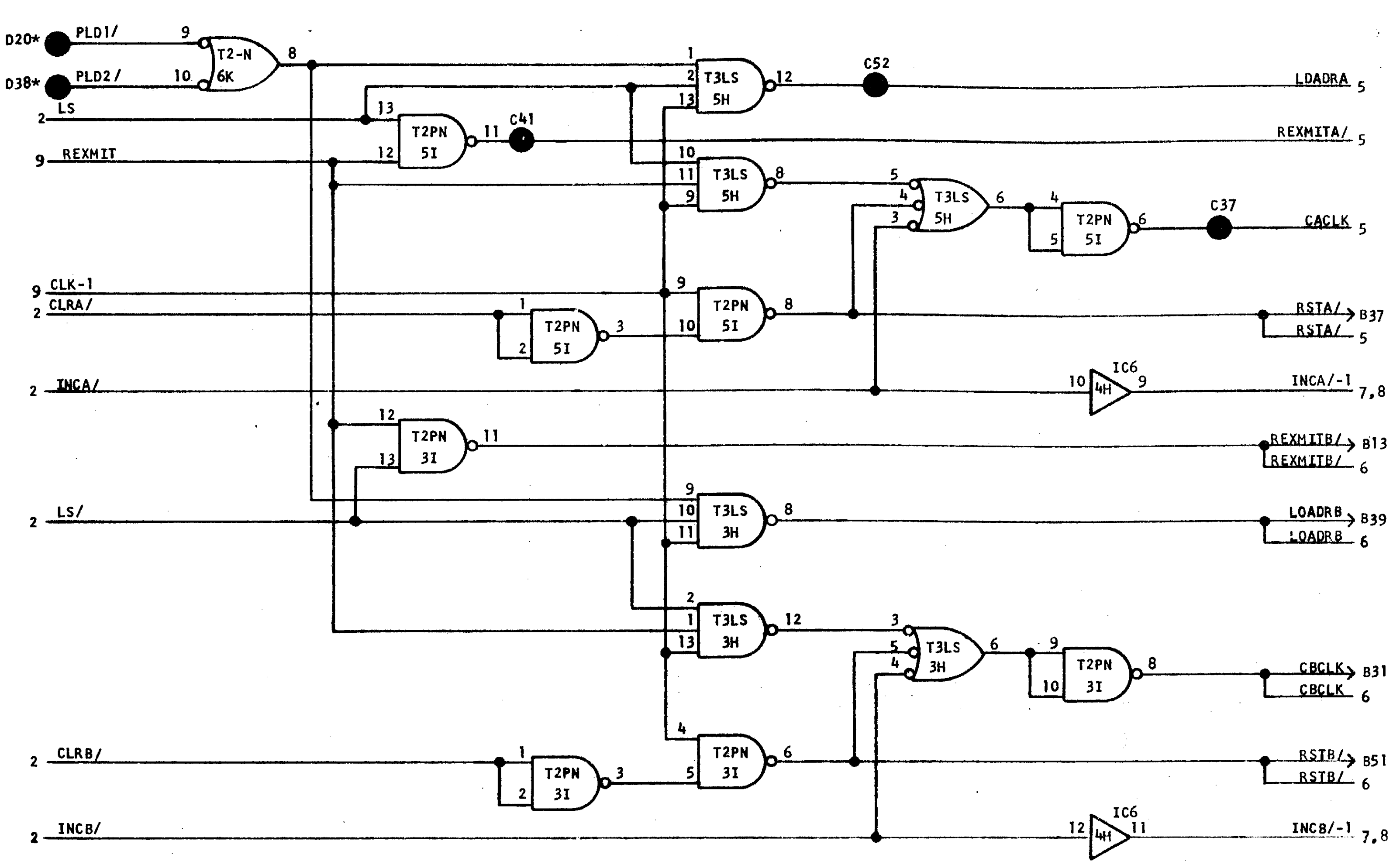
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B		
	SYSTEM:		DWG. NO. 2770 3347
	DRAWN: KOSTREWA 11-12-79	CHECKED: 11-16-79	
	APPROVED: 11-16-79	RELEASED: ECN 63040	REV LETTER: A — PAGE: 1 OF 9



Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B		
	SYSTEM:		DWG. NO. 2770 3347
	DRAWN: C. BERNDT 11-12-79	CHECKED:	
	APPROVED:	RELEASED: ECN 63040	REV LETTER: A
			PAGE: 2 OF 9



Burroughs Corporation SMALL SYSTEMS GROUP PLYMOUTH PLANT PLYMOUTH, MICHIGAN 48170 U. S. AMERICA	TITLE SCHEMATIC, BOARD, STD DISK HOST CTLR B		
	SYSTEM		DWG. NO. 2770 3347
	DRAWN C. BERNDT 11-13-79	CHECKED	
	APPROVED	RELEASED ECN 63040	REV LETTER A / PAGE 3 OF 9



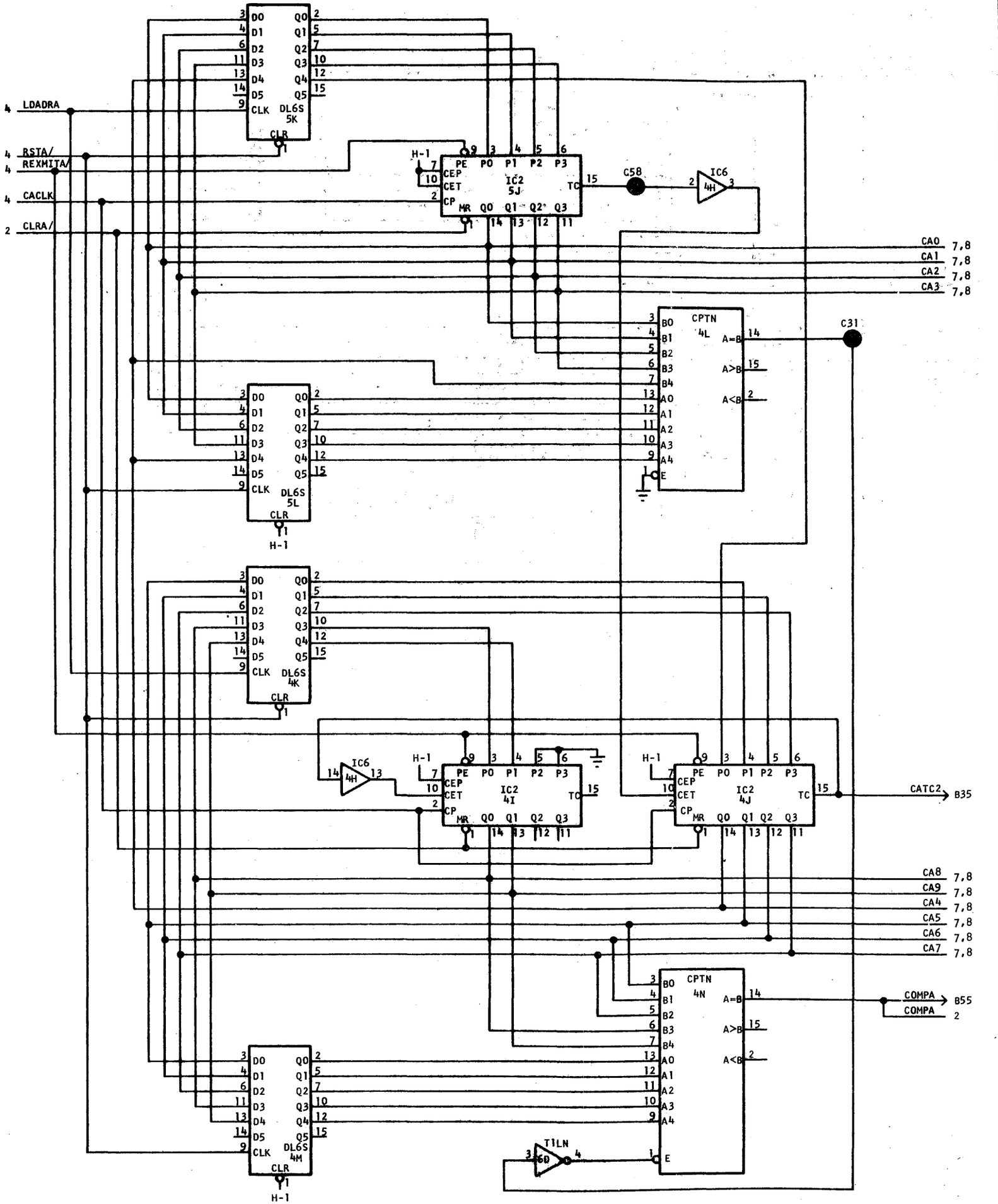
Burroughs Corporation

SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170

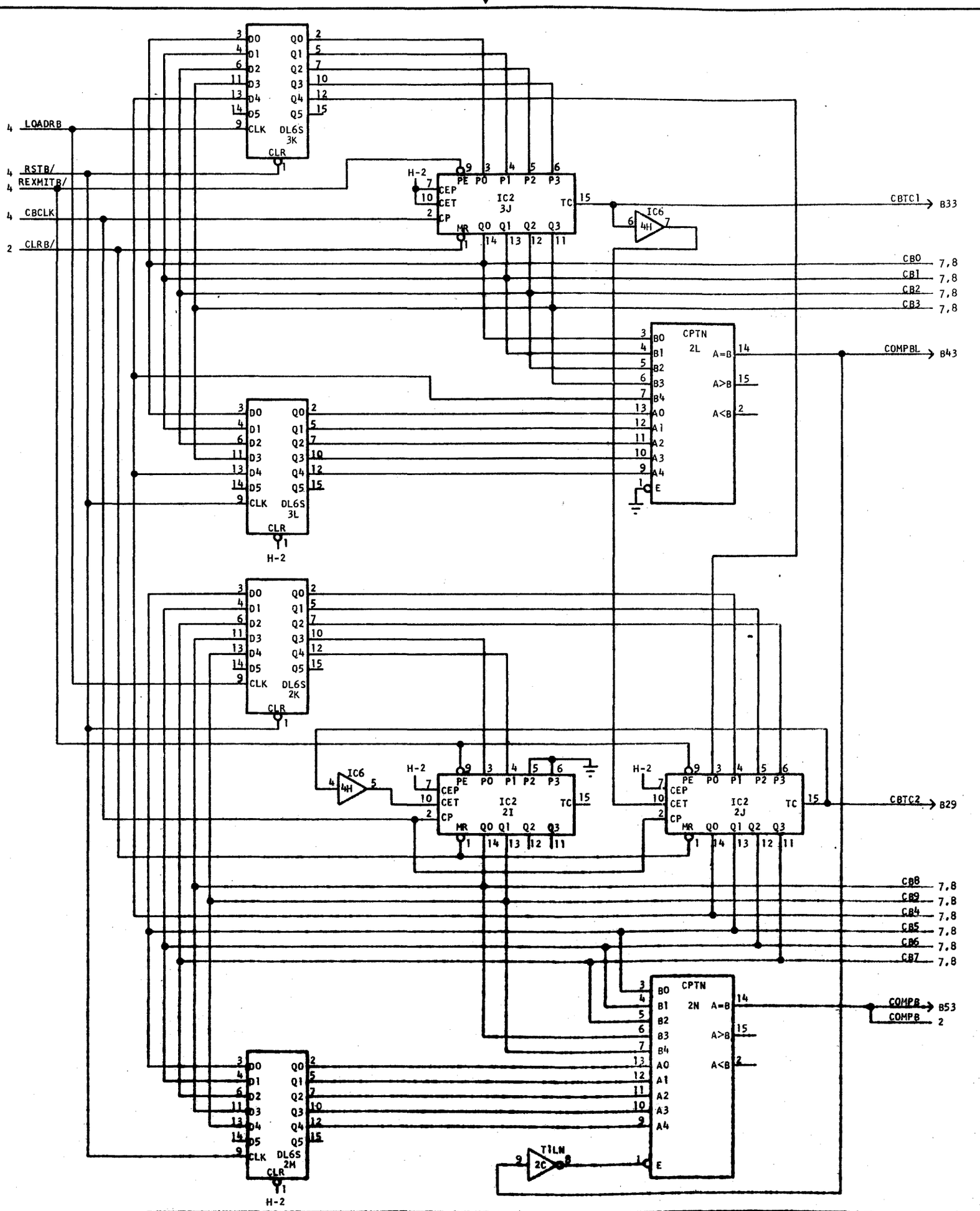
PLYMOUTH PLANT
U. S. AMERICA

TITLE	SCHEMATIC, BOARD, STD DISK HOST CTLR B
SYSTEM	
DRAWN	KOSTREWA 11-12-79
CHECKED	
APPROVED	
RELEASED	ECN 63040
DWG. NO.	2770 3347
REV LETTER	A
PAGE	4 OF 9

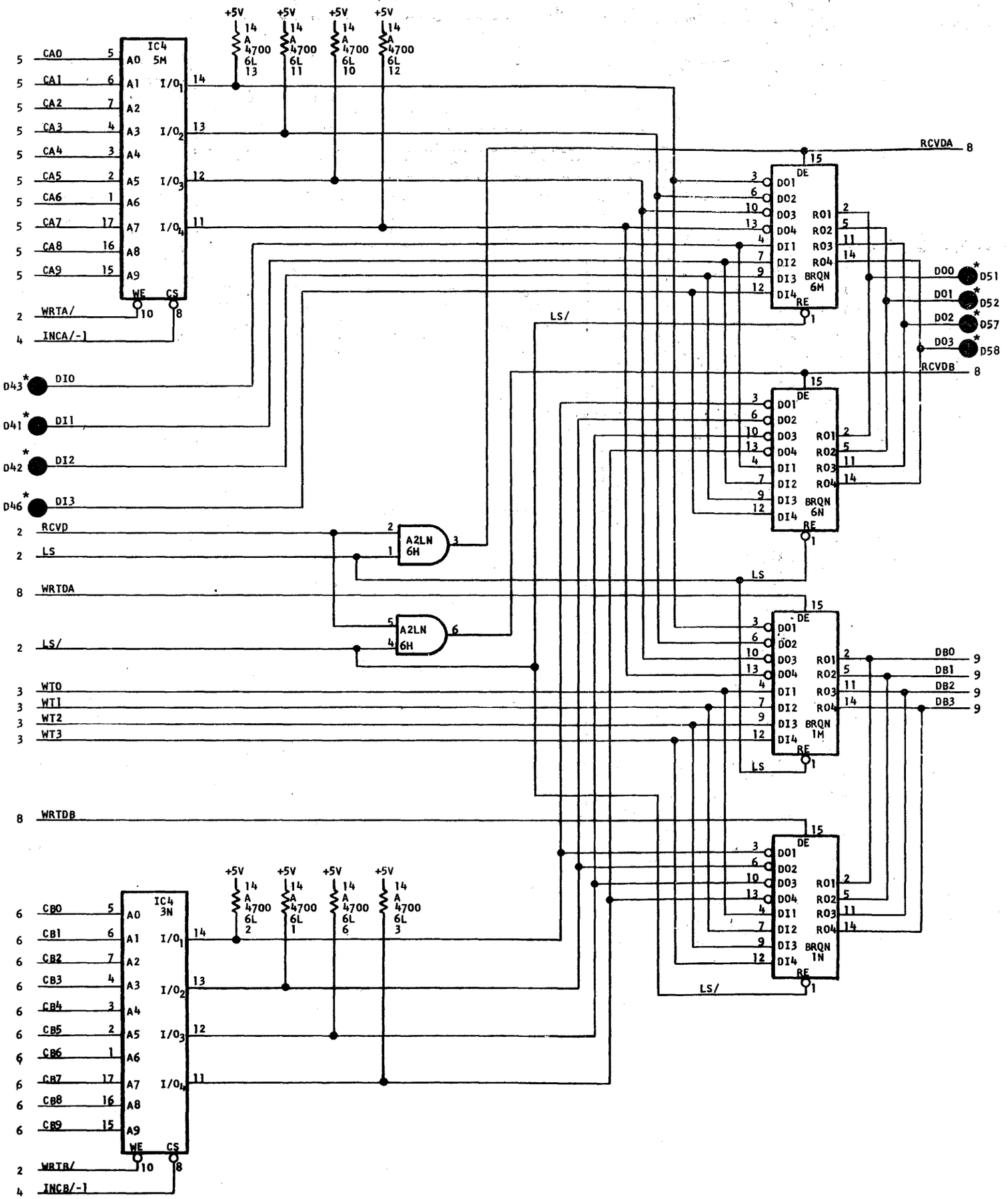
FORM PLY-F-46



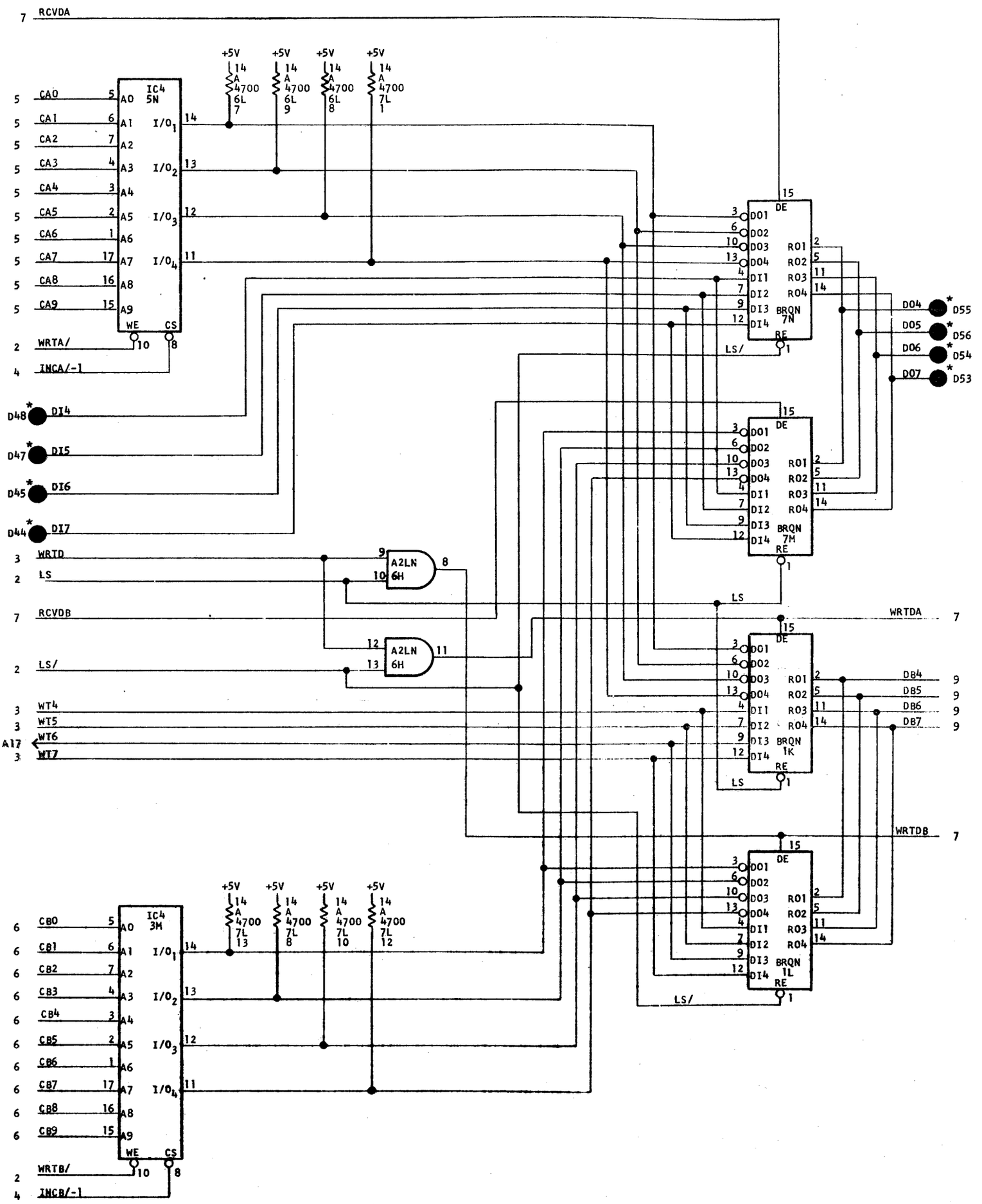
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B		
	SYSTEM		DWG. NO. 2770 3347
	DRAWN: J.MAISEL 11-12-79	CHECKED	
	APPROVED	RELEASED: ECN 63040	REV LETTER: A — PAGE: 5 OF 9



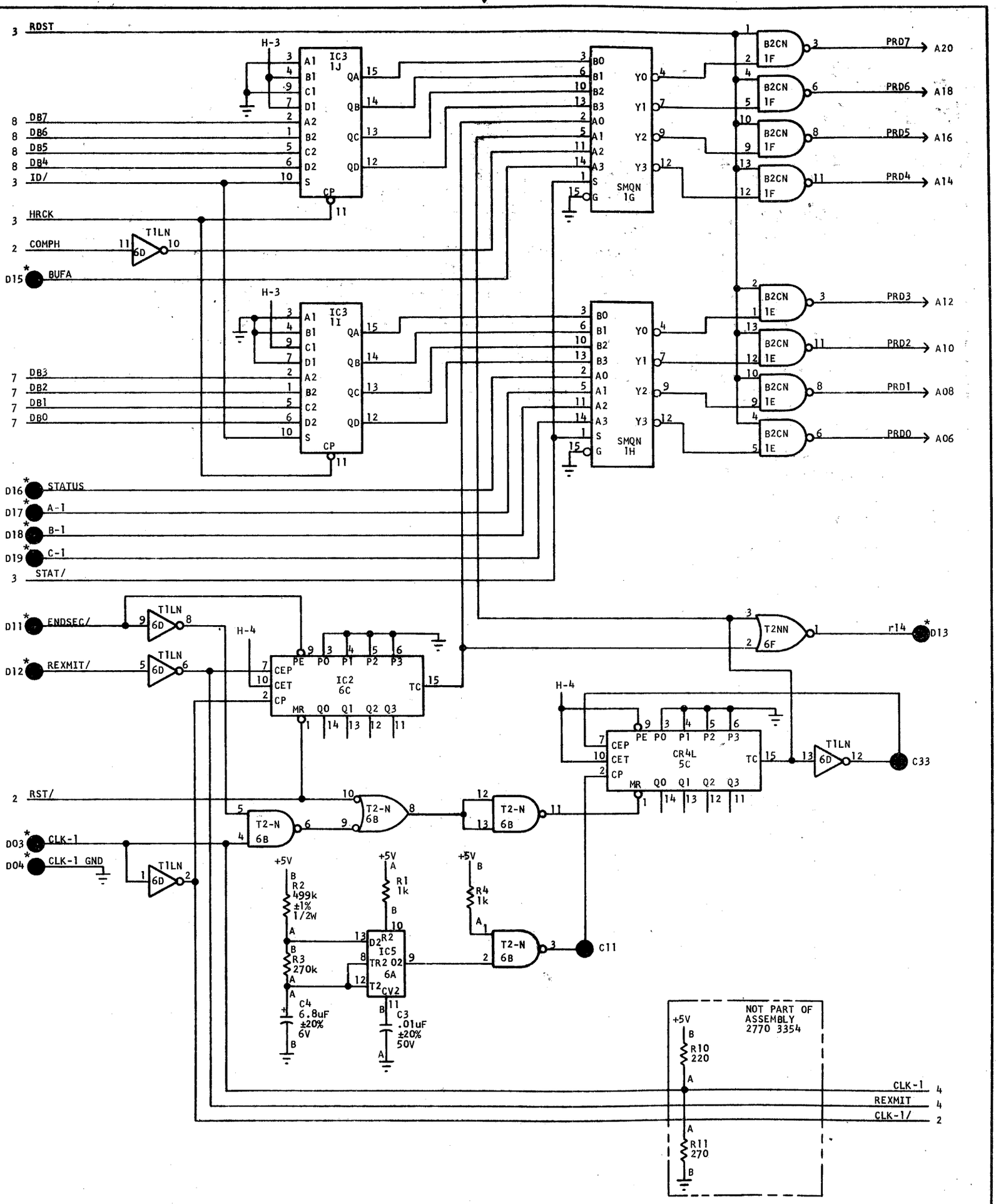
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 46170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B	DWG. NO. 2770 3347
	SYSTEM	
	DRAWN: J. MAISEL 11-12-79 — CHECKED	
	APPROVED — RELEASED: ECN 63040 — REV LETTER: A	PAGE: 6 OF 9



Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B		
	SYSTEM		DWG. NO. 2770 3347
	DRAWN: T. FISHER 11-11-79	CHECKED	
	APPROVED	RELEASED: ECN 63040	REV LETTER: A — PAGE: 7 OF 9

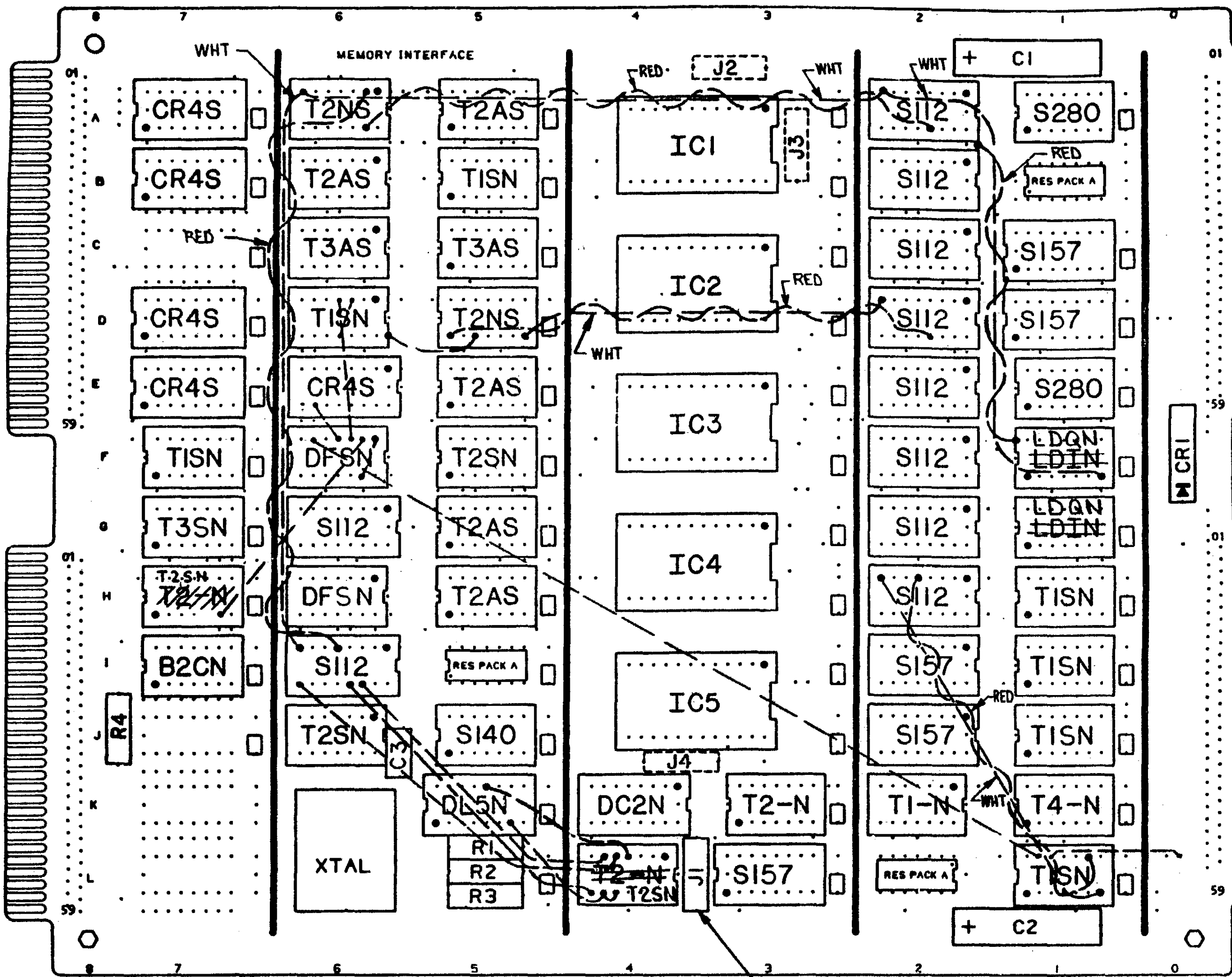


Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B		
	SYSTEM		DWG. NO. 2770 3347
	DRAWN: T. FISHER 11-11-79	CHECKED	
	APPROVED	RELEASED: ECN 63040	REV LETTER: A
			PAGE: 8 OF 9



Burroughs Corporation	TITLE: SCHEMATIC, BOARD, STD DISK HOST CTLR B		
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	SYSTEM		DWG. NO. 2770 3347
	DRAWN J. MAISEL 11-10-79	CHECKED	
	APPROVED	RELEASED ECN 63040	REV LETTER A — PAGE 9 OF 9

INPUT (B) | SCHEMATIC | OUTPUT



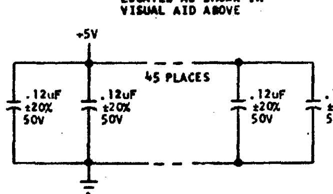
SEE NOTE 4

NOTE: PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

PART OF CHART 1

IC	FINAL ASSEMBLY 2770 5815 PL 2 MHz 3/6 ROM'S
IC1	2770 5839
IC2	2770 5847
IC3	3180 4701
IC4	3180 4719
IC5	2770 5854

DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE

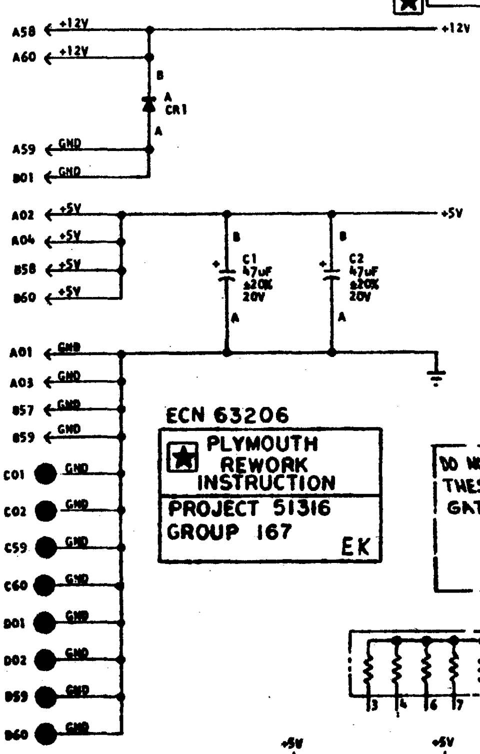


PART OF CHART 1

2770 5888PL

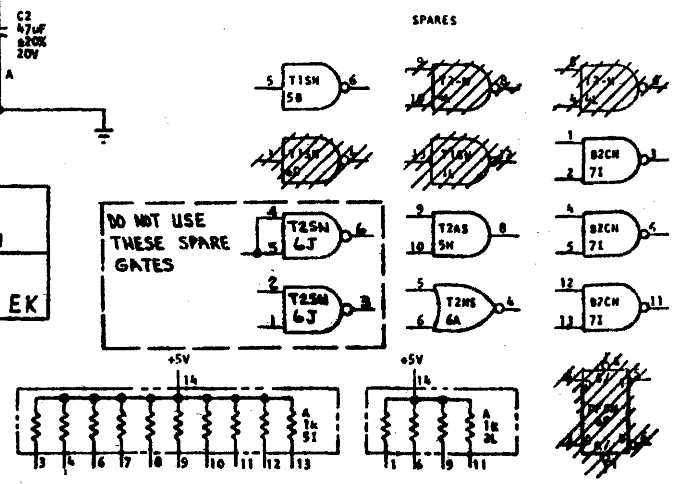
IC	FINAL ASSEMBLY 2770 5383 PL 2 MHz BSM/CART. ROM'S	2770 5887PL 2 MHz 3/6 PROMS
IC1	3180 4685	~~2770 4657~~
IC2	3180 4693	~~2770 4669~~
IC3	3180 4701	2770 1848
IC4	3180 4719	2770 1853
IC5	3180 4727	~~2770 4656~~

2770 5920
2770 5912
2770 5904



ECN 63206

PLYMOUTH REWORK INSTRUCTION
PROJECT 51316
GROUP 167
EK



NOTES:

1. FOR ASSEMBLY SEE 2770 5359 REV A
   FOR FINAL ASSEMBLY SEE CHART 1
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S	
T2-N	1447 3516
T1-N	1447 3532
T3SN	2600 1503
T4-N	1447 3565
B2CN	1447 3581
DC2N	1447 3722
S157	2602 3291
T2AS	2604 6805
LDQN ~~LDIN~~	~~1447 3524~~ 1848 4576
DLSN	2200 8486
S280	2602 7318
T2SN	2600 1487
T1SN	2600 1495
T3AS	2600 1511
DFSN	2600 1537
S140	2602 2889
T2NS	2602 7334
CR4S	2602 7383
S112	2602 7417

IC1 - IC2 - IC3 - IC4 - IC5 - SEE CHART 1

RESISTOR PKG
A - 2108 4827

CRYSTAL
XTAL - 2769 1682

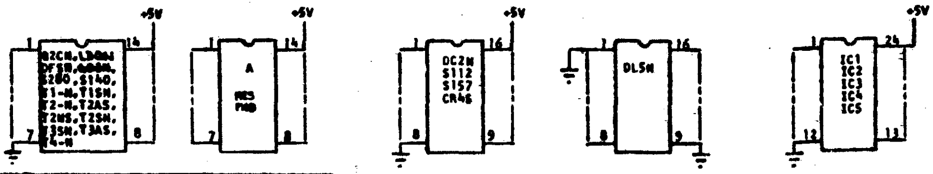
DIODE
A - 2626 1602

4. "REMOVE JUMPER J1 FOR 2 MHz OPERATION"
5. ★ INDICATES MODIFICATIONS TO ASSEMBLY 2769 8844 REV H TO BUILD ASSEMBLY 2770 5359 REV A.

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/4W
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8 W

ECN 63200

PLYMOUTH JK REWORK INSTRUCTION
PROJECT 51316
GROUP 164



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

DWG NO	PAGE	REV	
2770 5342	1 OF 4	A	RELEASED ECN 63123 REWORK INSTR
		B	ECN 63200 REWORK INSTR PAGE 1 AFFECTED
		C	ECN 63206 REWORK INSTR. PAGE 1 AFFECTED

REF 2769 8851 REV H

C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

TITLE: SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM:
DRAWN: R. BELVILLE 1-28-80
CHECKED: R. GLENN 2-6-80
APPROVED: 6 Feb '80
RELEASED: ECN 63123
REV LETTER: C
DWG NO: 2770 5342
PAGE: 1 OF 4

BDS-35

INPUT | SCHEMATIC | OUTPUT

A23 ← RD0
A25 ← RD1
A27 ← RD2
A29 ← RD3
A31 ← RD4
A33 ← RD5
A35 ← RD6
A37 ← RD7
A39 ← RD8

B23 ← MA0/
B24 ← MA1/
B25 ← MA2/
B26 ← MA3/
B27 ← MA4/
B28 ← MA5/
B29 ← MA6/
B30 ← MA7/
B31 ← MA8/
B32 ← MA9/
B33 ← MA10/

T1SN 1I
T1SN 1J

+5V
J4
J3
J2

IC1 3A
IC2 3C
IC3 3E
IC4 3G
IC5 3I

C04
C10
C28
C26
C19
C20
C39
C03

A 1k 1B

S157 1C
S157 1D
S157 2J
S157 3L
S157 2I

MRD0 → B15
MRD1 → B16
MRD2 → B17
MRD3 → B18
MRD4 → B19
MRD5 → B20
MRD6 → B21
MRD7 → B22

S280 1E
D06
PERR

A 1k 2L
D57
RD9
D10
D05
PINH/
INH/
P
C56
C54

B09 ← MTRSEL
B34 ← MA11/
DC2N 4K

B46 ← ONES/
B48 ← ZEROS/
T1-N 2K
T2-N 3K
C53
C33
C22

B39 ← XMA0/
B40 ← XMA1/
B41 ← XMA2/
B42 ← XMA3/
T4-N 1K

B35 ← MA12/
B36 ← MA13/
B37 ← MA14/
B38 ← MA15/
C55

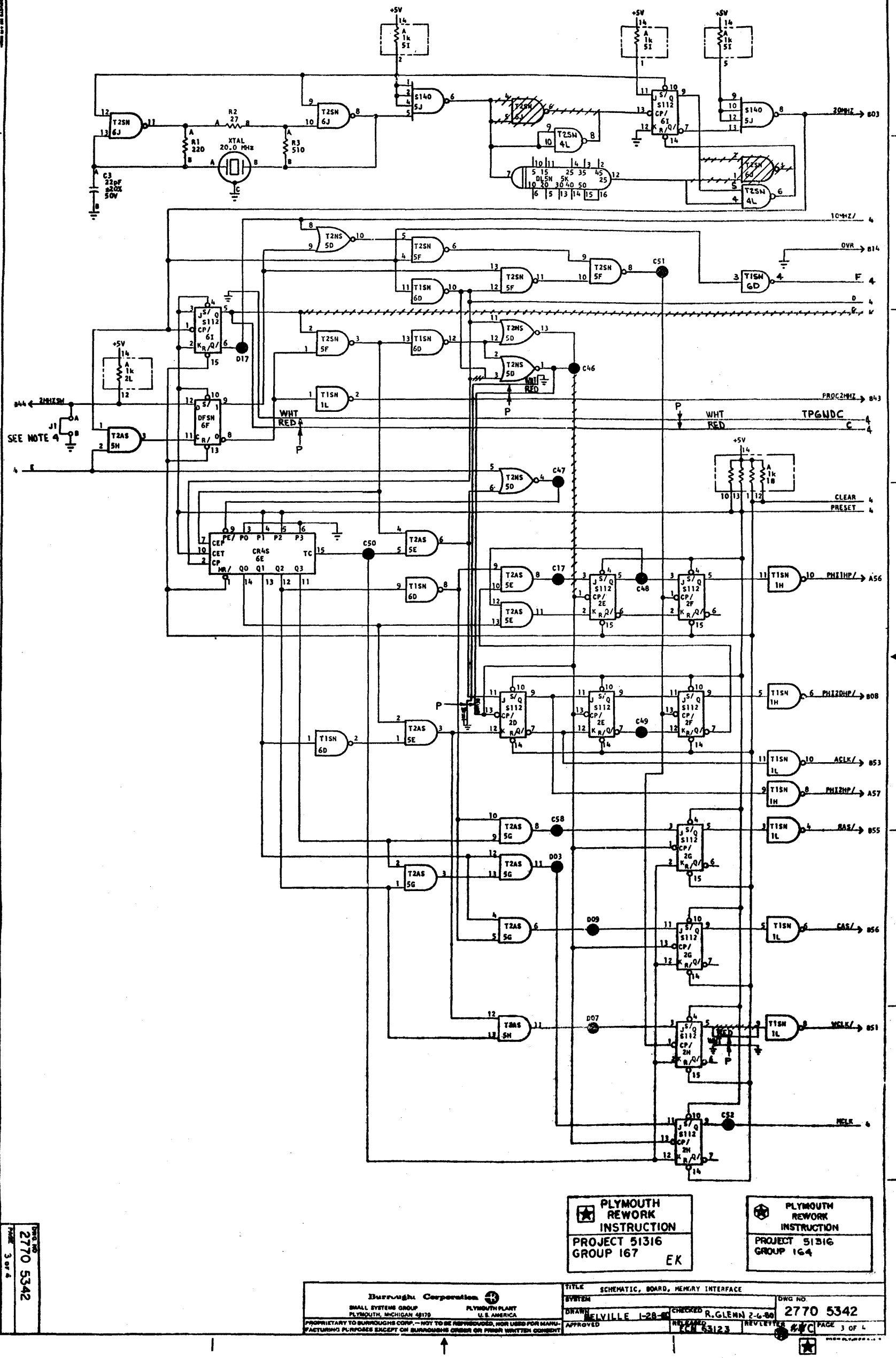
PLYMOUTH REWORK INSTRUCTION
PROJECT 51316
GROUP 167
EK

PLYMOUTH REWORK INSTRUCTION
PROJECT 51316
GROUP 164

PAGE 2 of 4
DWG NO 2770 5342

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 PLYMOUTH PLANT U.S. AMERICA

TITLE SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM
DRAWN BELVILLE 1-28-80
CHECKED R. GLENN 2-6-80
APPROVED
RELEASED ECN 63123
DWG NO. 2770 5342
REV LETTER C
PAGE 2 OF 4



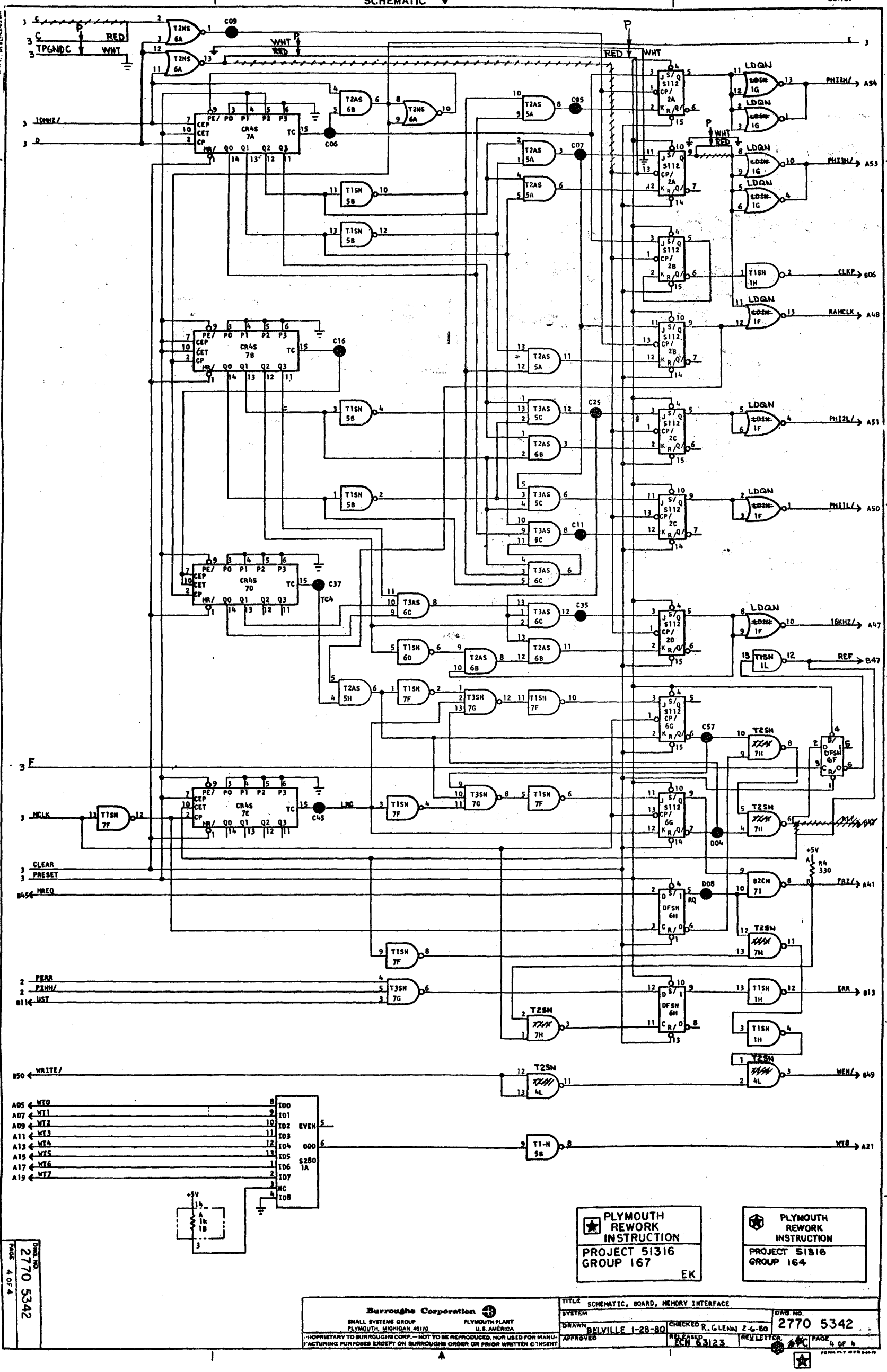
PLYMOUTH REWORK INSTRUCTION
PROJECT 51316
GROUP 167 EK

PLYMOUTH REWORK INSTRUCTION
PROJECT 51316
GROUP 164

DWG NO 2770 5342
PAGE 3 of 4

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

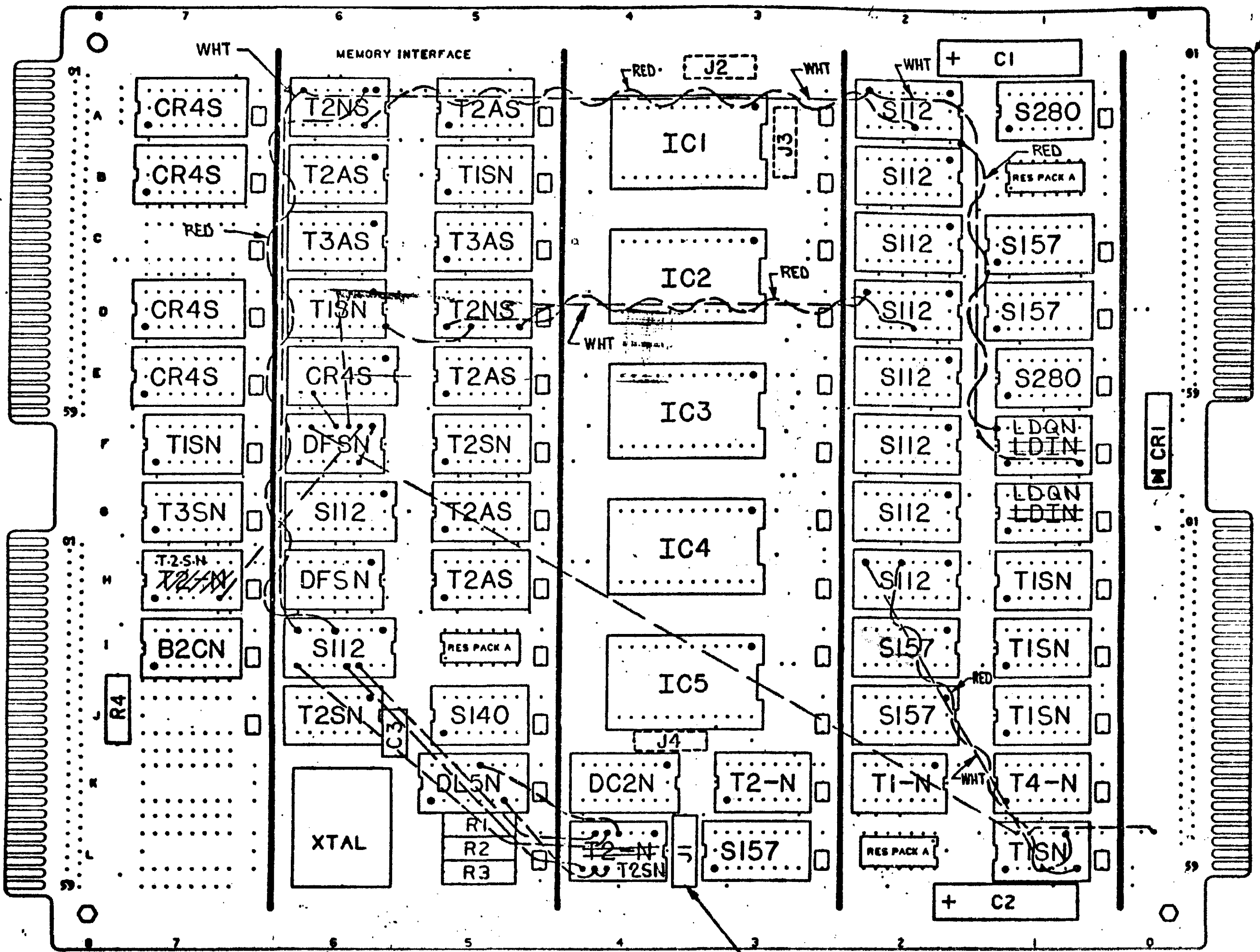
TITLE	SCHEMATIC, BOARD, MEMORY INTERFACE		
SYSTEM		DWG NO.	2770 5342
DRAWN	MELVILLE 1-28-80	CHECKED	R.GLEMN 2-6-80
APPROVED		RELEASED	ECN 53123
REVLETTER	C	PAGE	3 OF 4



DWG. NO. 2770 5342
PAGE 4 OF 4

TITLE	SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM	
DRAWN	BELVILLE 1-28-80
CHECKED	R. GLENN 2-6-80
APPROVED	
RELEASED	ECN 63123
DWG. NO.	2770 5342
REV LETTER	PC
PAGE	4 OF 4

SCHEMATIC



SEE NOTE 4

NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

PART OF CHART 1

IC	FINAL ASSEMBLY 2770 5813 PL 2 MHz 3/6 ROM'S PROM'S
IC1	~~2770 5839~~ ← 2770 5904
IC2	~~2770 5847~~ ← 2770 5912
IC3	~~3180 4701~~ ← 2770 1846
IC4	~~3180 4719~~ ← 2770 1853
IC5	~~2770 5854~~ ← 2770 5920

DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE

PART OF CHART 1

IC	FINAL ASSEMBLY 2770 5383 PL 2 MHz BSM/CART. ROM'S	~~2770 5887 PL 2 MHz 3/6 PROM'S~~ 2770 5888 PL
IC1	3180 4685	[illegible]
IC2	3180 4693	[illegible]
IC3	3180 4701	2770 1846
IC4	3180 4719	2770 1853
IC5	3180 4727	[illegible]

2770 5920
2770 5912
2770 5904

EDA 63211

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP 171
DATE 3-18-80

PAGE 1 AFFECTED

NOTES:

1. FOR ASSEMBLY SEE 2770 5359 REV A
   FOR FINAL ASSEMBLY SEE CHART 1
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S	
T2-N	1447 3516
T1-N	1447 3532
T3SN	2600 1503
T4-N	1447 3565
B2CN	1447 3581
DC2N	1447 3722
S157	2602 3291
T2AS	2604 6905
LDQN ~~LDIN~~	~~[illegible]~~ 1898 4576
DL5N	2200 8486
S280	2602 7318
T2SN	2600 1487
T1SN	2600 1495
T3AS	2600 1511
DFSN	2600 1537
S140	2602 2889
T2NS	2602 7334
CR4S	2602 7983
S112	2602 7417

IC1, IC2, IC3, IC4, IC5 – SEE CHART 1

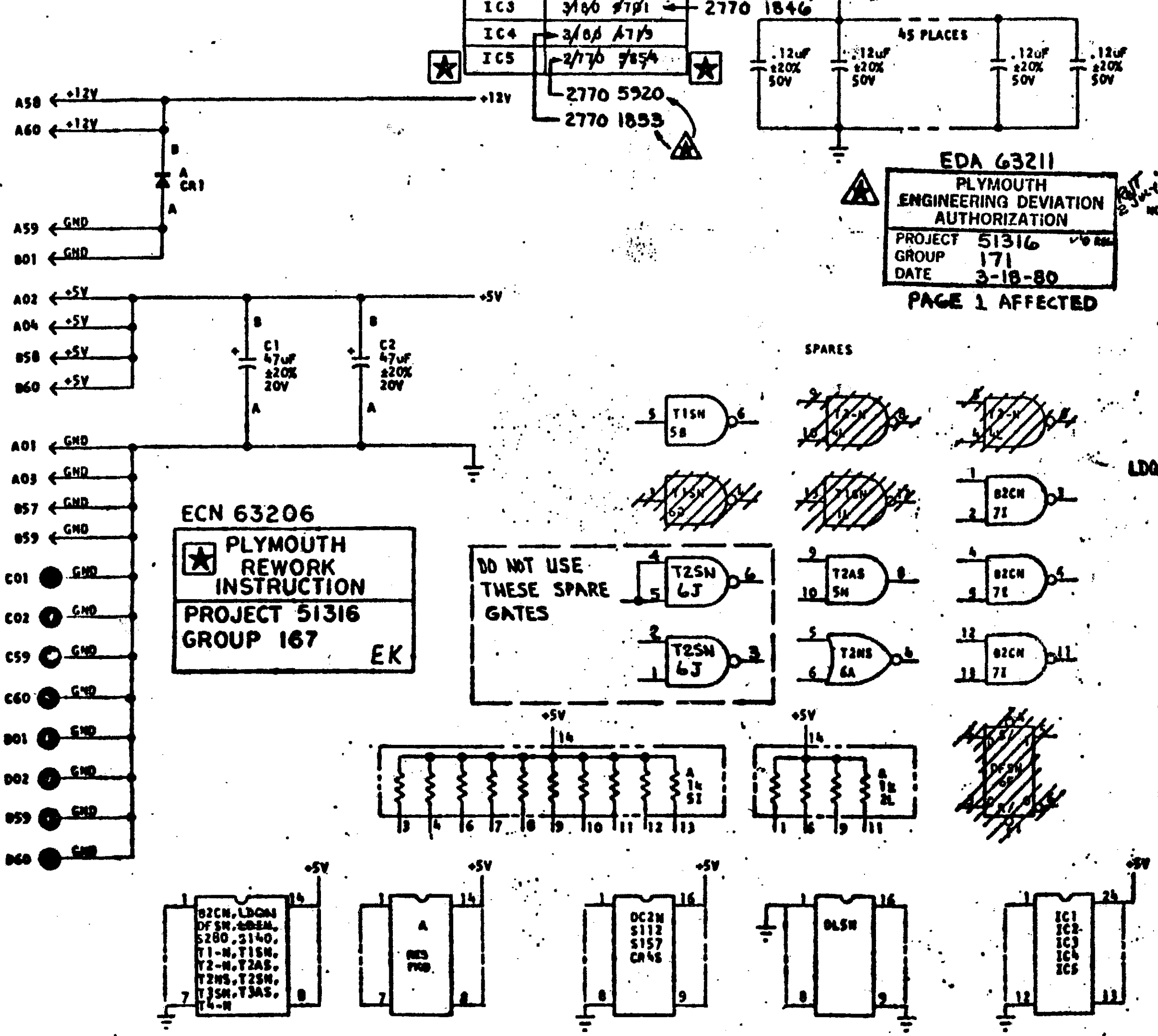
RESISTOR PKG
A - 2108 4827

CRYSTAL
XTAL - 2709 1608

DIODE
A - 2626 1608

4. "REMOVE JUMPER J1 FOR 2 MHz OPERATION"
5. ★ INDICATES MODIFICATIONS TO ASSEMBLY 2769 8844 REV H TO BUILD ASSEMBLY 2770 5359 REV A.

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/4W
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8 W



ECN 63206

PLYMOUTH REWORK INSTRUCTION
PROJECT 51316
GROUP 167
EK

ECN 63200

PLYMOUTH JK REWORK INSTRUCTION
PROJECT 51316
GROUP 164

REV	DESCRIPTION
A	RELEASED ECN 63123 REWORK INSTR
B	ECN 63200 REWORK INSTR PAGE 1 AFFECTED
C	ECN 63206 REWORK INSTR. PAGE 1 AFFECTED

DWG NO 2770 5342, PAGE 1 of 4
EDA 63211

REF 2769 6851 REV H

C.C. 2-9520

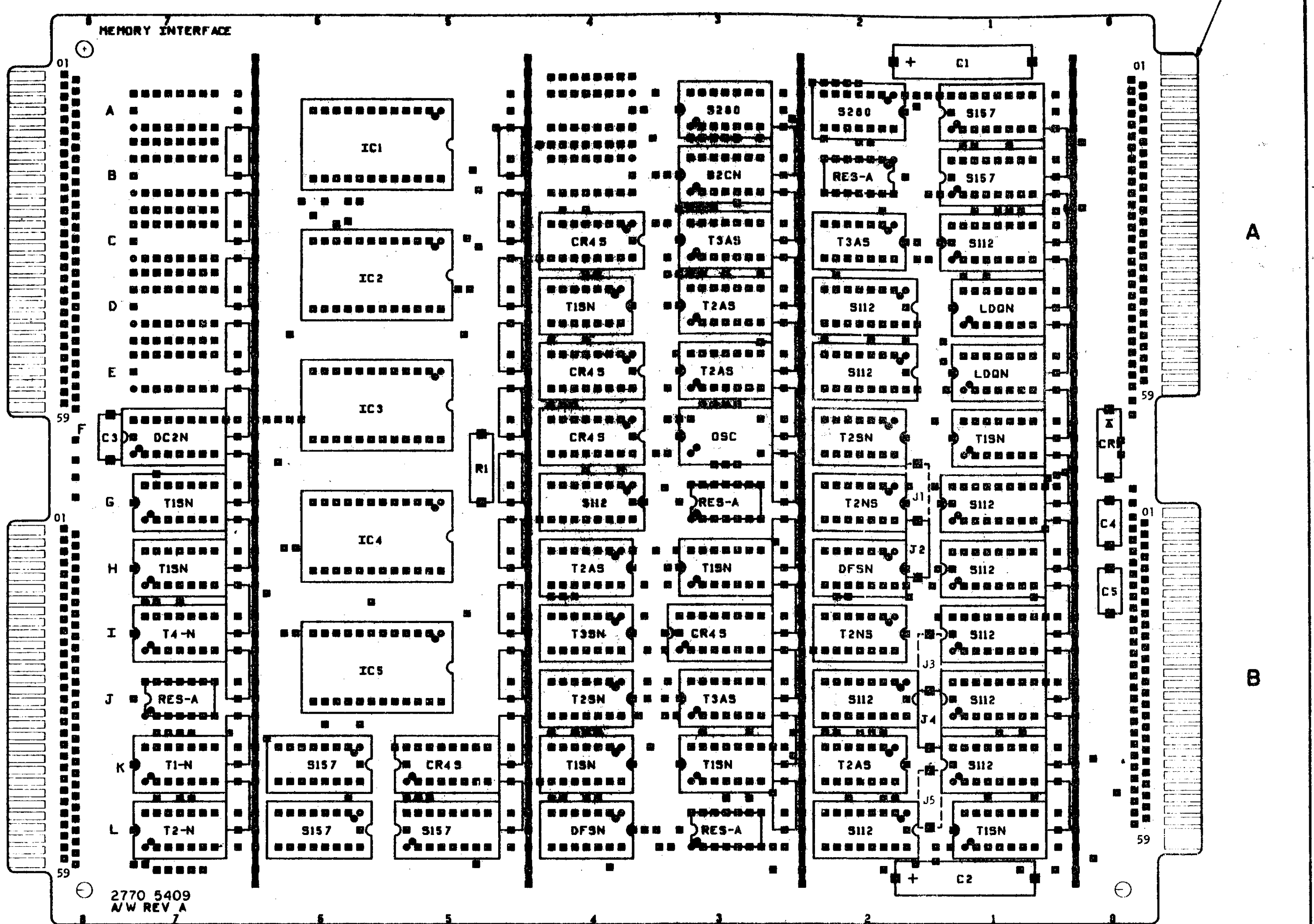
Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT, U.S. AMERICA

TITLE: SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM:
DRAWN: R. BELVILLE 1-28-80
CHECKED: R. GLENN 2-4-80
APPROVED: R. [illegible] 6 Feb '80
RELEASED: ECN 63123
REV LETTER: C
DWG NO: 2770 5342
PAGE 1 of 4

INPUT

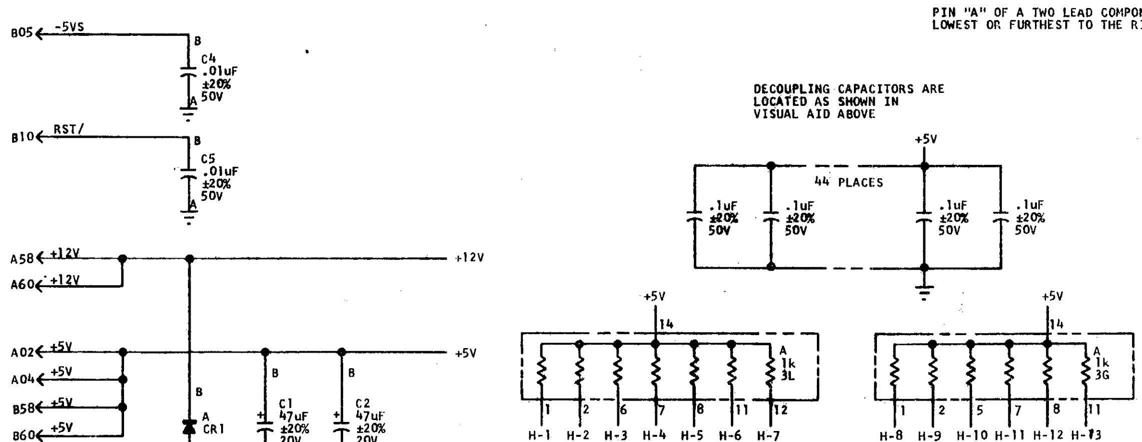
SCHEMATIC

OUTPUT



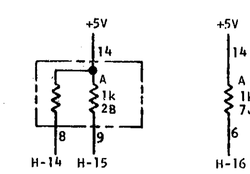
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT.

DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE



ECN 63207 PLYMOUTH REWORK INSTRUCTION PROJECT 51316 GROUP 168

ECN 63201 PLYMOUTH REWORK INSTRUCTION PROJECT 51316 GROUP 165



NOTES:

1. FOR ASSEMBLY SEE 2770 5409 REV A
   FOR FINAL ASSY SEE CHART BELOW
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

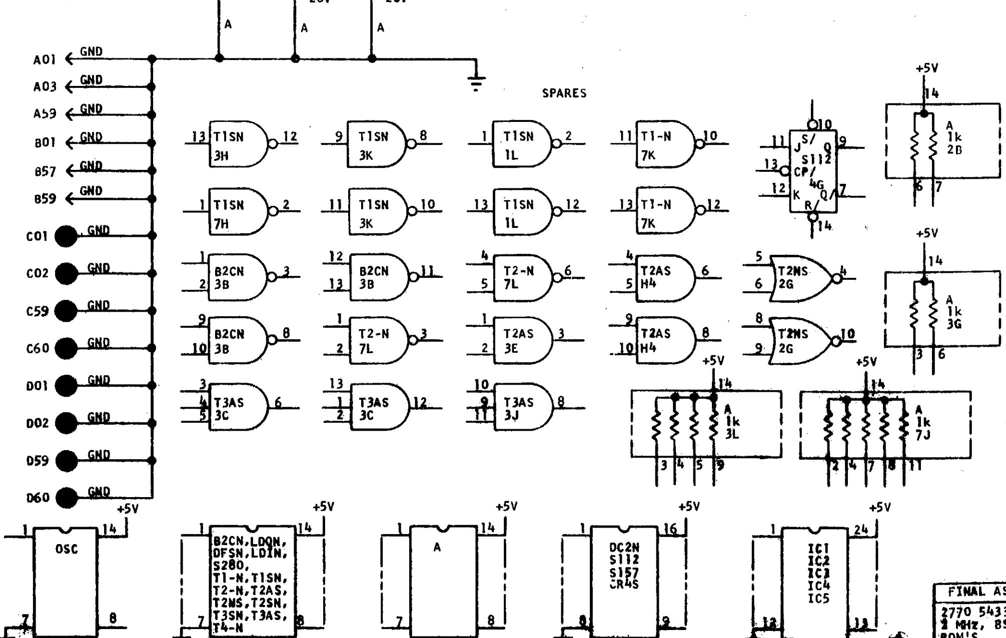
T2-N - 1447 3516	T1SN - 2600 1495
T1-N - 1447 3532	T3AS - 2600 1511
T3SN - 2600 1503	DFSN - 2600 1537
T4-N - 1447 3565	T2NS - 2602 7334
B2CN - 1447 3581	CR4S - 2602 7383
DC2N - 1447 3722	S112 - 2602 7417
S157 - 2602 3291	IC1 - ROM ~~PROM~~ (SEE CHART BELOW)
T2AS - 2604 6805	IC2 - ROM ~~PROM~~ (SEE CHART BELOW)
LDQN - 1848 4576	IC3 - ROM ~~PROM~~ (SEE CHART BELOW)
S280 - 2602 7318	IC4 - ROM ~~PROM~~ (SEE CHART BELOW)
T2SN - 2600 1487	IC5 - ROM ~~PROM~~ (SEE CHART BELOW)

RESISTOR PKG: A - 2108 4827
OSCILLATOR PKG: OSC - 1956 8997
DIODE: A - 2626 1602

4. FOR 1 MHz OPERATION REMOVE JUMPERS J2 AND J4 AND ADD JUMPERS J1, J3 AND J5.
5. ★ INDICATES MODIFICATIONS TO ASSEMBLY 2770 1937 REV A TO BUILD ASSEMBLY 2770 5409 REV A .

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.

SPARES



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

FINAL ASSEMBLY - ~~PROM~~ ROM CHART

FINAL ASSEMBLY	IC1-01M	IC2-23M	IC3 -01S	IC4-23S	IC5-0123P
2770 5433 PL 2 MHz, BSM/CART. ROM'S	3180 4685	3180 4693	3180 4701	3180 4719	3180 4727
~~2770 5417 PL 2 MHz 3/6 PROM'S~~	~~2770 1820~~ 2770 5904	~~2770 1838~~ 2770 5912	~~2770 1846~~	~~2770 1853~~	~~2770 1861~~ 2770 5920
2770 5821 PL 2 MHz, 3/6 ROM	2770 5839	2770 5847	3180 4701	3180 4719	2770 5854

USER PLANT 357

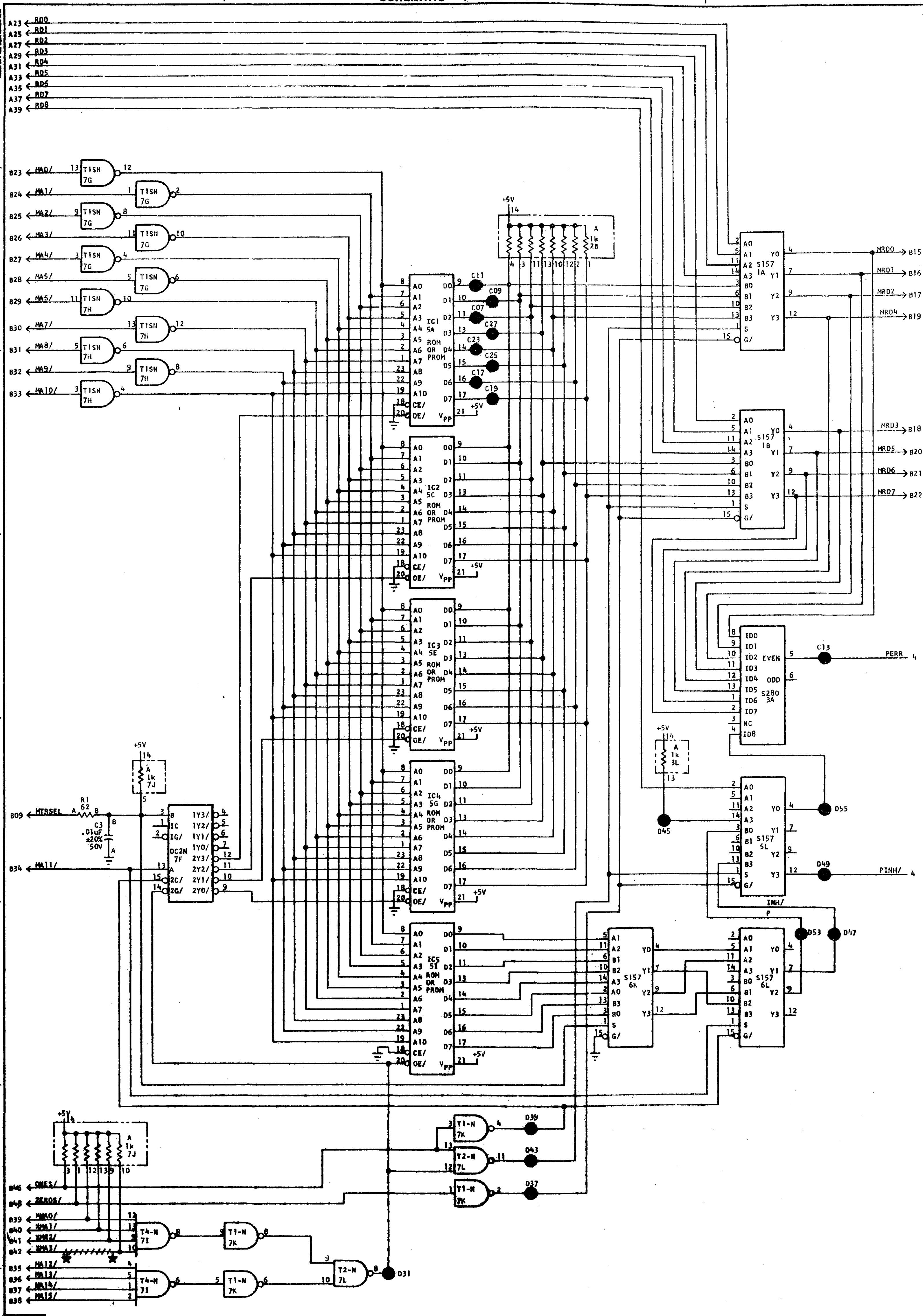
C.C.2-9520

PAGE	1 OF 4
DWG. NO.	2770 5391
REV A	RELEASED ECN 63124 REWORK INSTRUCTION
B	ECN 63201 REWORK INSTRUCTION PAGE 1 AFFECTED
C	ECN 63207 REWORK INSTRUCTION PAGE 1 AFFECTED

Burroughs Corporation
SMALL SYSTEMS GROUP — PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT — U.S. AMERICA

TITLE	SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM	
DRAWN	E. KARAS 2-25-80
CHECKED	R.GLENN 2-25-80
APPROVED	26 Feb '80
RELEASED	ECN 63124
REV LETTER	C
DWG. NO.	2770 5391
PAGE	1 OF 4

FORM PLY 47 PR



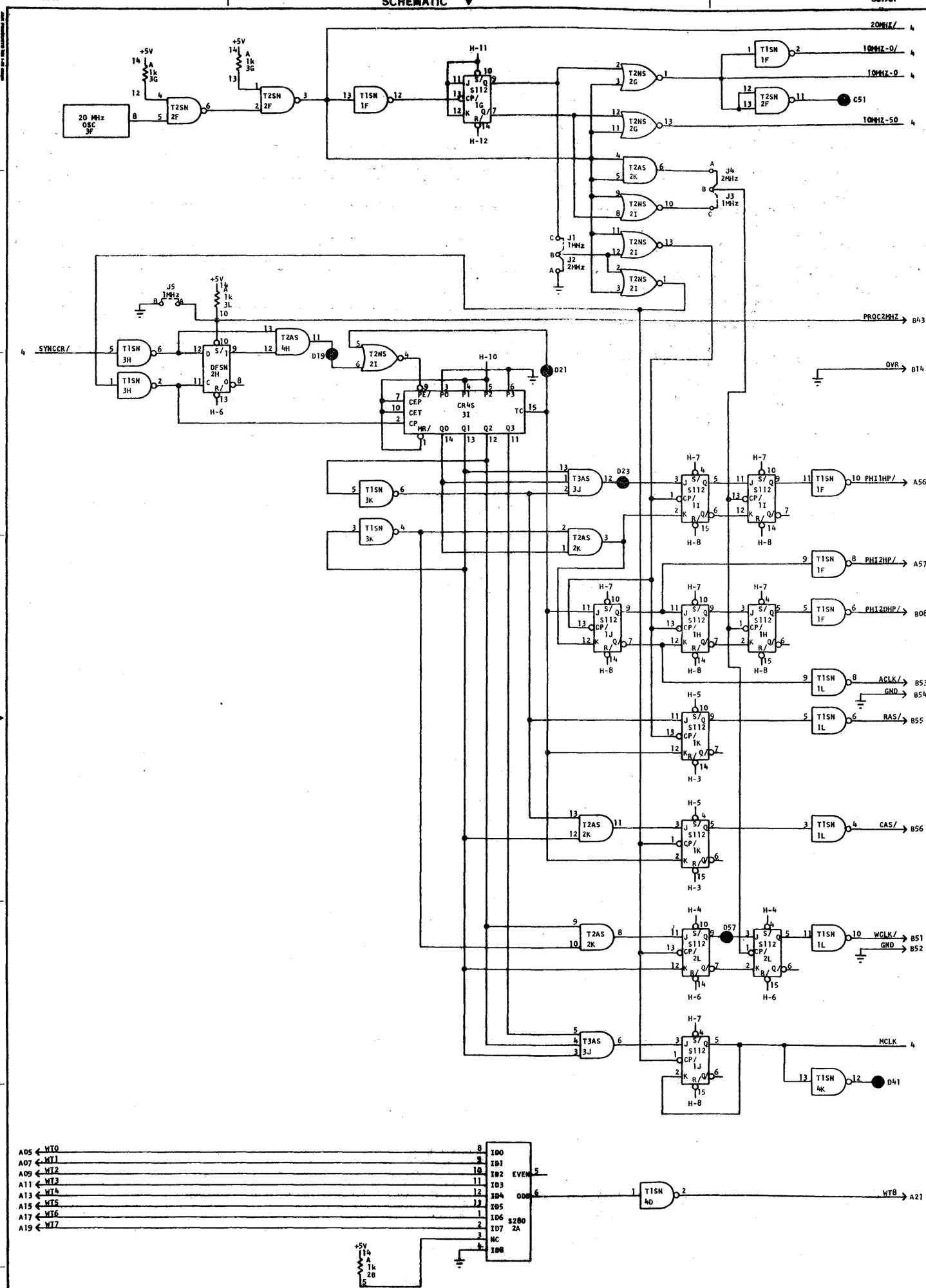
DWG. NO. 2770 5391
PAGE 2 OF 4

ECN 63207
PLYMOUTH REWORK INSTRUCTION
PROJECT 5131б GROUP 168

ECN 63201
PLYMOUTH REWORK INSTRUCTION
PROJECT 5131б GROUP 165

Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH PLANT

TITLE	SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM	
DRAWN	E. KARAS 2-25-80
CHECKED	R. GLENN 2-25-80
APPROVED	
RELEASED	ECN 63124
DWG. NO.	2770 5391
REV LETTER	C
PAGE	2 OF 4

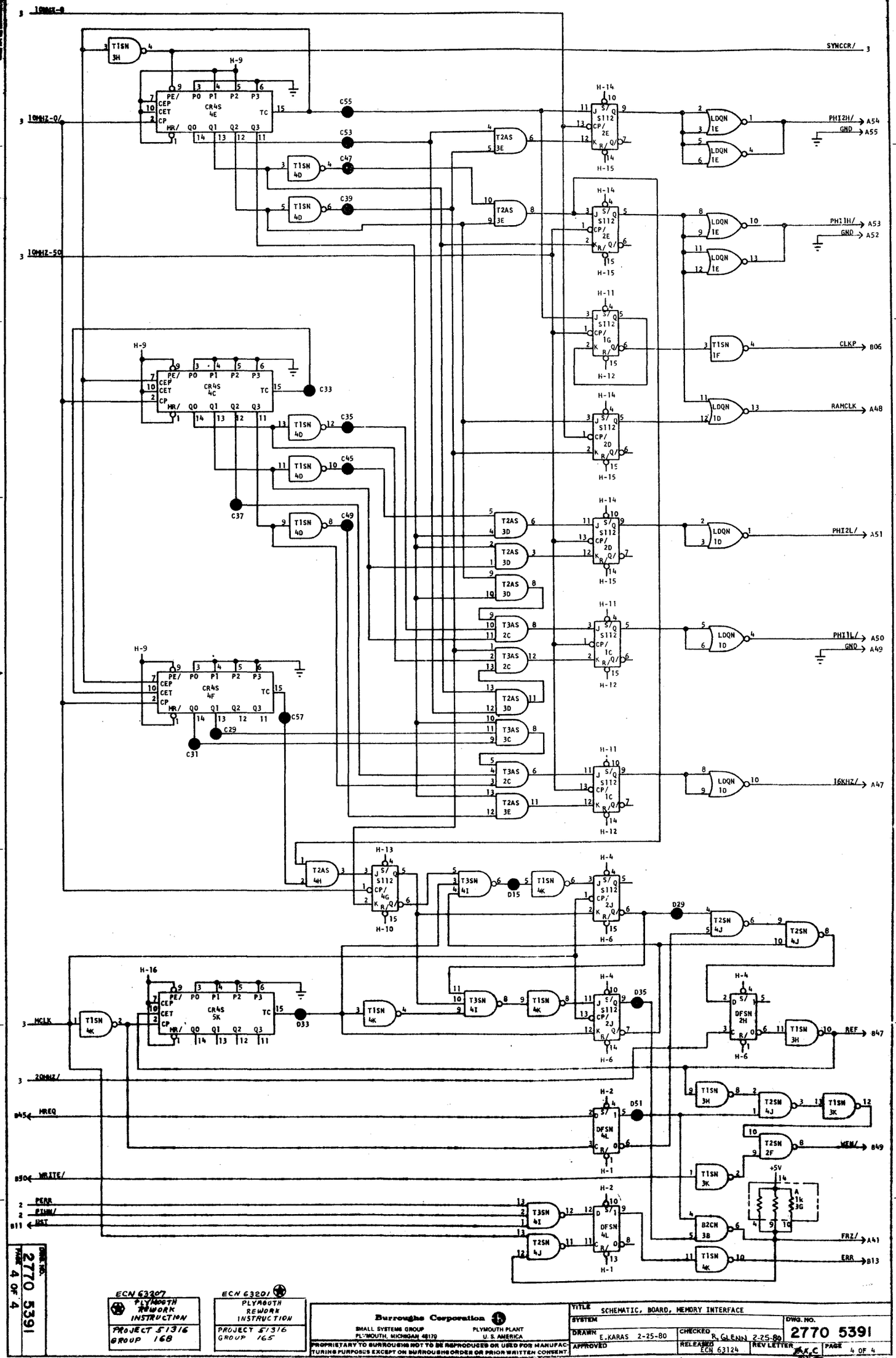


DWG. NO. 2770 5391 PAGE 3 OF 4

ECN 63207
PLYMOUTH REWORK INSTRUCTION
PROJECT 51316 GROUP 168

ECN 63201
PLYMOUTH REWORK INSTRUCTION
PROJECT 51316 GROUP 165

TITLE SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM
DRAWN E.KARAS 2-25-80
CHECKED R. GLENN 2-25-80
APPROVED
RELEASED ECN 63124
REV LETTER X C
DWG. NO. 2770 5391
PAGE 3 OF 4



ECN 63207
PLYMOUTH REWORK INSTRUCTION
PROJECT 5/316 GROUP 168

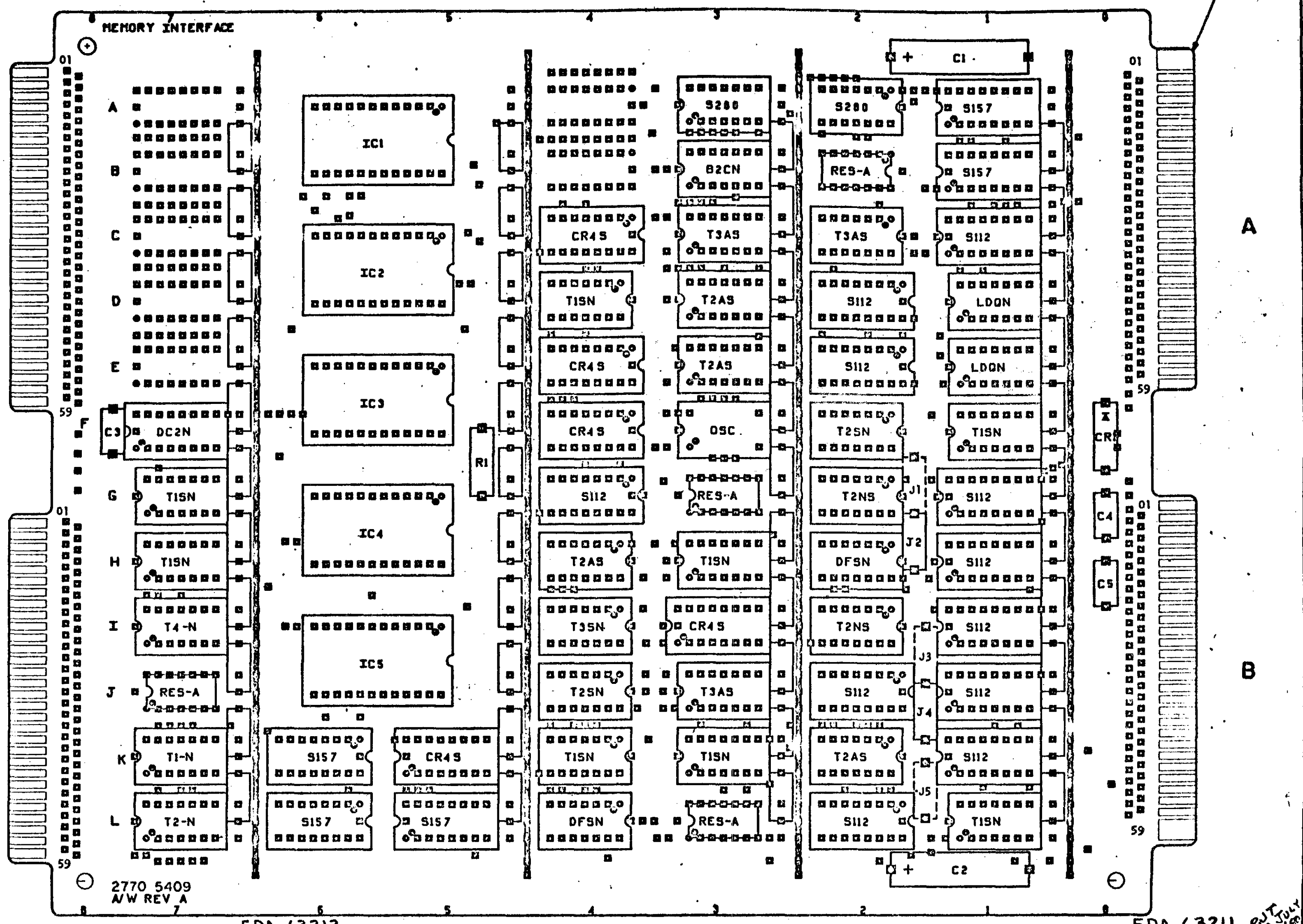
ECN 63201
PLYMOUTH REWORK INSTRUCTION
PROJECT 5/316 GROUP 165

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE	SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM	
DRAWN	E.KARAS 2-25-80
CHECKED	R.GLENN 2-25-80
APPROVED	
RELEASED	ECN 63124
DWG. NO.	2770 5391
REV LETTER	K,C
PAGE	4 OF 4

DWG NO. 2770 5391 PAGE 4 OF 4

INPUT | SCHEMATIC | OUTPUT

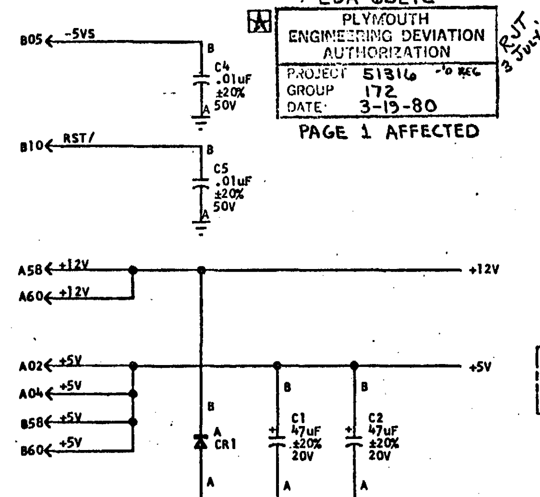


EDA 63212

★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316 ✓O REC
GROUP 172
DATE 3-19-80
RJT 3 JULY 80
PAGE 1 AFFECTED

NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT.

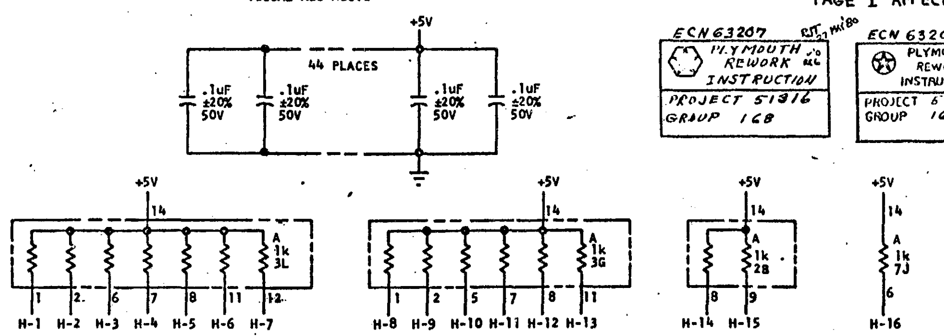
EDA 63211 RJT 3 JULY 80
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316 ✓O REC
GROUP 171
DATE 3-18-80
PAGE 1 AFFECTED

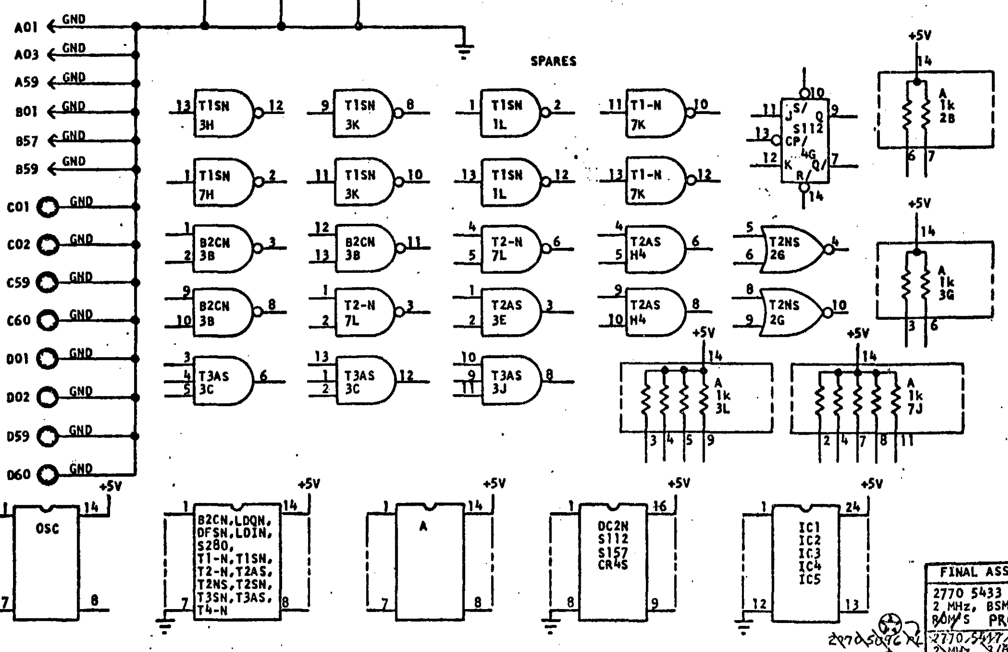


DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE

ECN 63207 RJT 3 JULY 80
PLYMOUTH REWORK INSTRUCTION ✓O REC
PROJECT 51316
GROUP 168

ECN 63201
PLYMOUTH REWORK INSTRUCTION ✓O REC
PROJECT 51316
GROUP 165





TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

NOTES:

1. FOR ASSEMBLY SEE 2770 5409 REV A
   FOR FINAL ASSY SEE CHART BELOW
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

T2-N - 1447 3516	T1SN - 2600 1495
T1-N - 1447 3532	T3AS - 2600 1511
T3SN - 2600 1503	DFSN - 2600 1537
T4-N - 1447 3565	T2NS - 2602 7334
B2CN - 1447 3581	CR4S - 2602 7383
DC2N - 1447 3722	S112 - 2602 7417
S157 - 2602 3291	IC1 - ~~ROM/PROM~~ SEE CHART BELOW
T2AS - 2604 6805	IC2 - ~~ROM/PROM~~ SEE CHART BELOW
LDON - 1848 4576	IC3 - ~~ROM/PROM~~ SEE CHART BELOW
S280 - 2602 7318	IC4 - ~~ROM/PROM~~ SEE CHART BELOW
T2SN - 2600 1487	IC5 - ~~ROM/PROM~~ SEE CHART BELOW

RESISTOR PKG: A - 2108 4827
OSCILLATOR PKG: OSC - 1956 8997
DIODE: A - 2626 1602

4. FOR 1 MHz OPERATION REMOVE JUMPERS J2 AND J4 AND ADD JUMPERS J1, J3 AND J5.
5. ☆ INDICATES MODIFICATIONS TO ASSEMBLY 2770 1937 REV A TO BUILD ASSEMBLY 2770 5409 REV A.

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.

FINAL ASSEMBLY - ~~PROM X ROM CHART~~ PROM / ROM CHART

FINAL ASSEMBLY	IC1-01M	IC2-23M	IC3 -01S	IC4-23S	IC5-0123P
2770 5433 PL 2 MHz, BSM/CART. ~~ROM'S~~ PROM	~~3180 4685~~ 2770 1820	~~3180 4693~~ 2770 1838	~~3180 4701~~ 2770 1846	~~3180 4719~~ 2770 1853	~~3180 4727~~ 2770 1861
~~2770 5417 PL 2 MHz 3/6 PROM'S~~ 2770 5896 PL	~~2770 4857~~ 2770 5904	~~2770 4899~~ 2770 5912	~~2770 1846~~	~~2770 1853~~	~~2770 4832~~ 2770 5920
2770 5821 PL 2 MHz, 3/6 ~~ROM~~ PROM	~~2770 5839~~ 2770 5904	~~2770 5847~~ 2770 5912	~~3180 4701~~ 2770 1846	~~3180 4719~~ 2770 1853	~~2770 5854~~ 2770 5920

USER PLANT 357

C.C.2-9520

REV	
A	RELEASED ECN 63124 REWORK INSTRUCTION
B	ECN 63201 REWORK INSTRUCTION PAGE 1 AFFECTED
C	ECN 63207 REWORK INSTRUCTION PAGE 1 AFFECTED

DWG. NO. 2770 5391 PAGE 1 OF 4

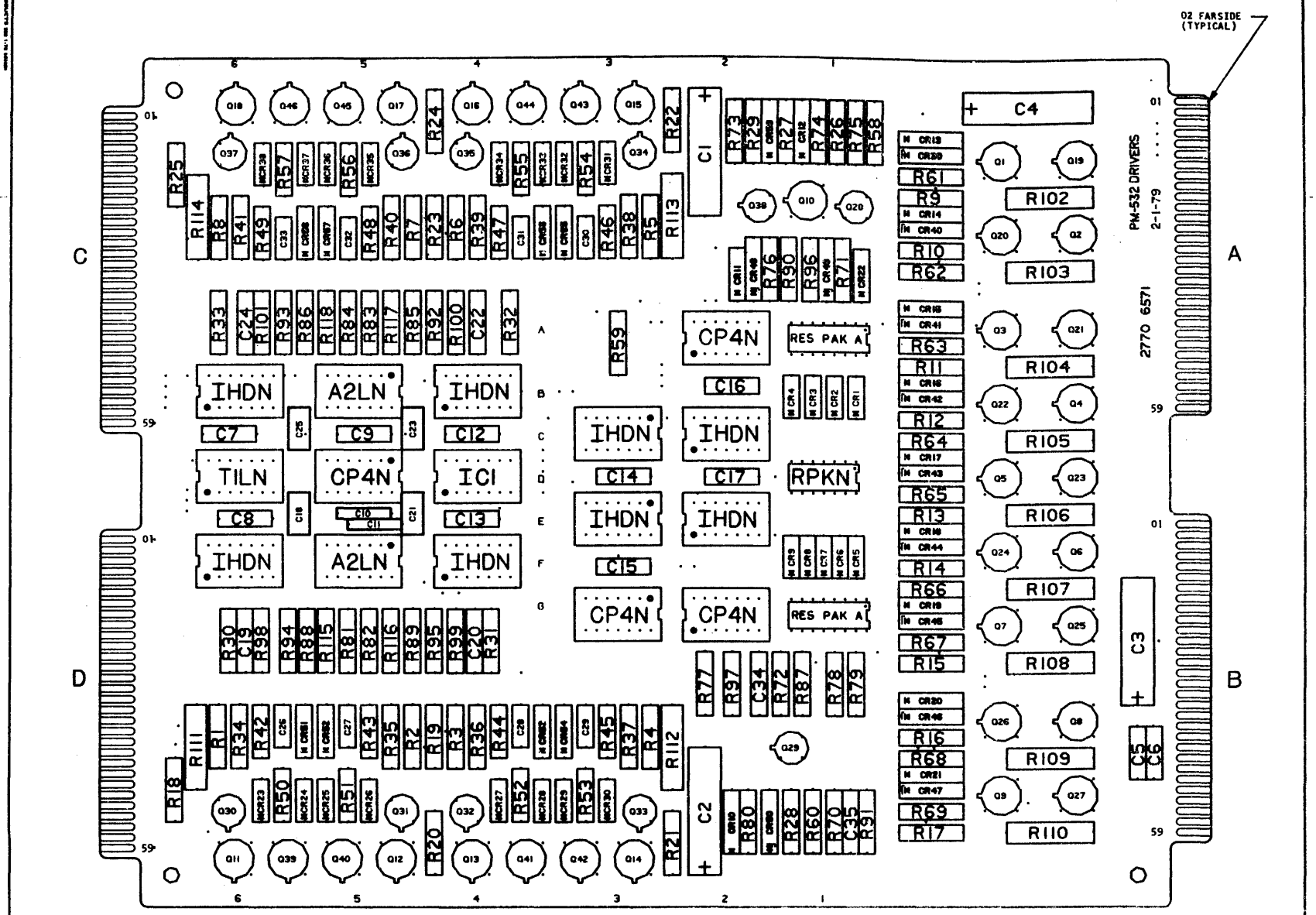
EDA 63212

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 | PLYMOUTH PLANT U.S. AMERICA

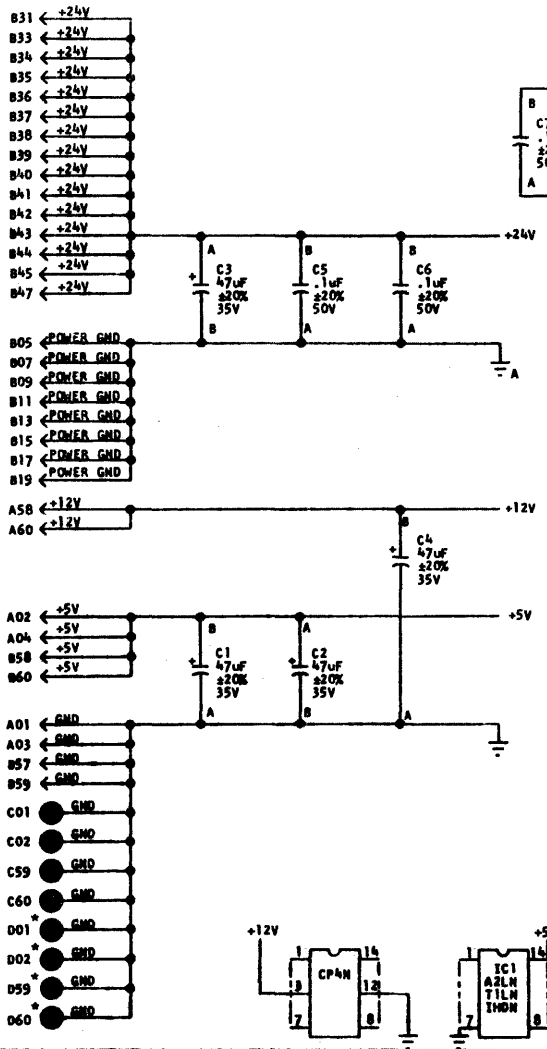
TITLE: SCHEMATIC, BOARD, MEMORY INTERFACE
SYSTEM:
DRAWN: E. KARAS 2-25-80
CHECKED: R. GLENN 2-25-80
APPROVED: [illegible] 26 FEB 80
RELEASED: ECN 63124
REV LETTER: C
DWG. NO. 2770 5391
PAGE 1 OF 4

FORM PLY 47 FR

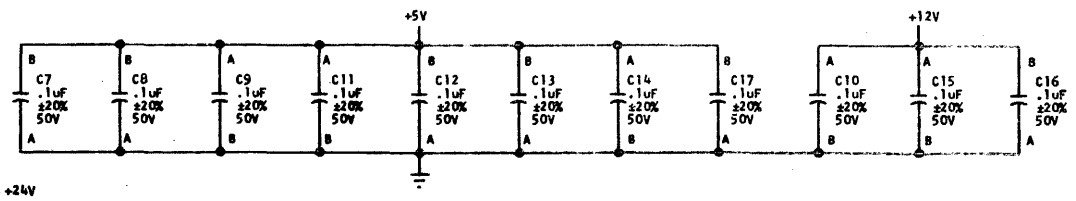
INPUT | SCHEMATIC ↓ | OUTPUT



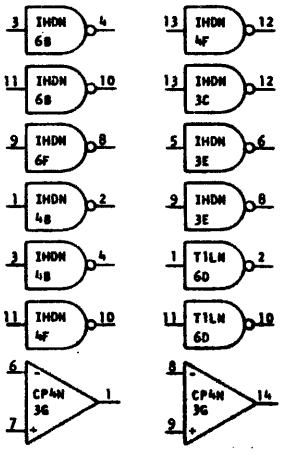
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT.



DECOUPLING CAPACITORS FOR TTL PACKAGES



SPARES



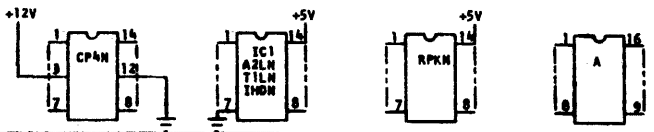
NOTES:

1. FOR ASSEMBLY SEE 2770 6571 REV A
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS;

I.C.'S	RESISTOR PKG	TRANSISTORS	DIODES
A2LN - 2846 6647	A - 2726 2633	A - 1473 4255	A - 1471 4703
T1LN - 2607 1803	RPKN - 2108 5121	B - 2475 3956	B - 1471 4737
IC1 - 2848 0895		C - 2200 6548	C - 1920 4973
IHDN - 2770 6563		D - 2208 4362	D - 1517 1275
CP4N - 2118 8297		E - 1471 4828	E - 1472 6277

4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK (*) MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W.
ALL RESISTANCE PKG RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

PAGE 1 OF 5

DWG. NO.	REV
2770 6589	A

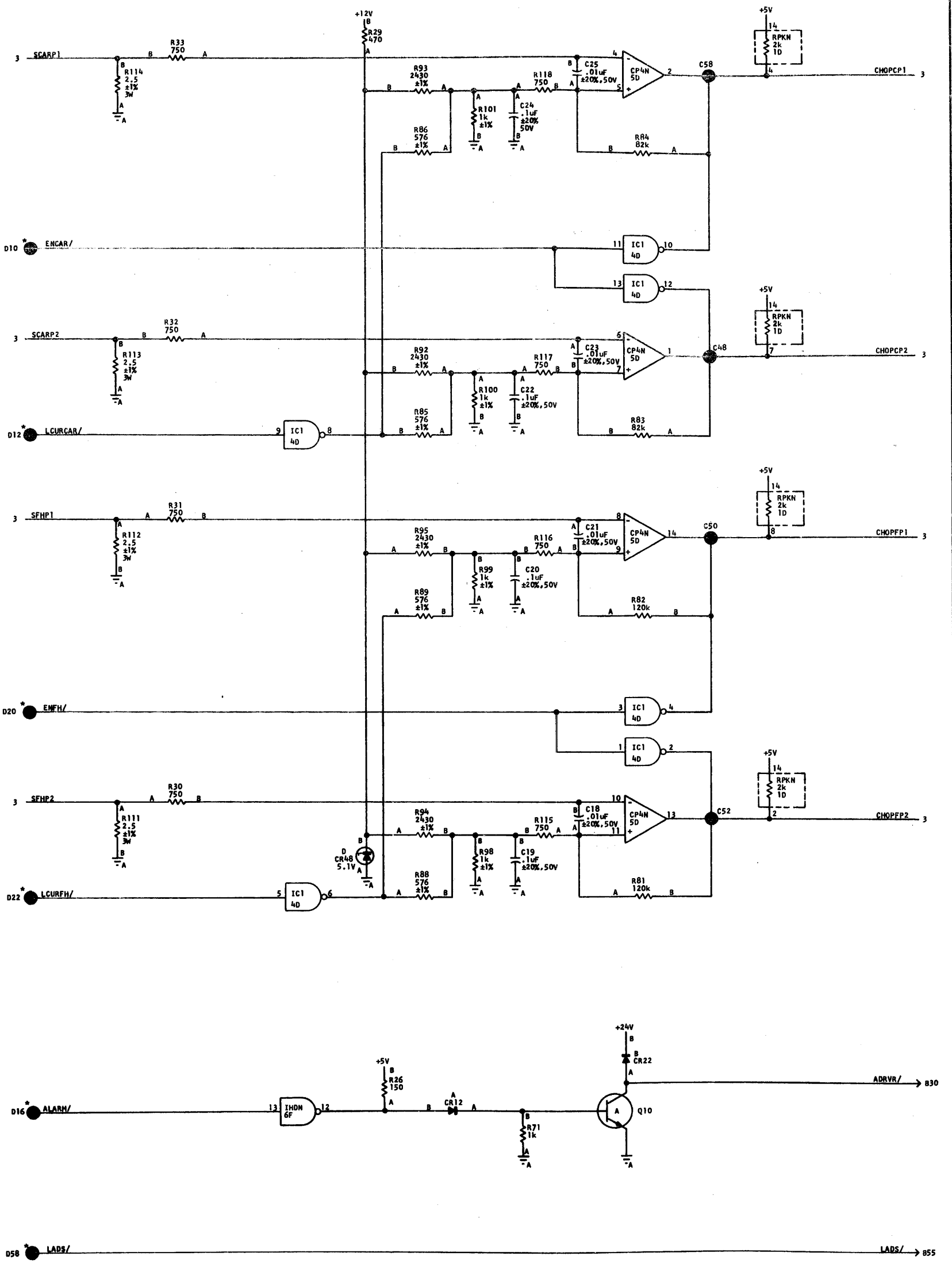
RELEASED ECN 63149

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT U.S.A. AMERICA

C.C. 2-9520

TITLE	SCHEMATIC, BOARD, PM-532 DRIVERS		
SYSTEM			DWG. NO. 2770 6589
DRAWN J. HAISEL 8-1-78	CHECKED R. GLENN 6-9-80		
APPROVED	RELEASED ECN 63149	REV LETTER A	PAGE 1 of 5

FORM FLY # PR



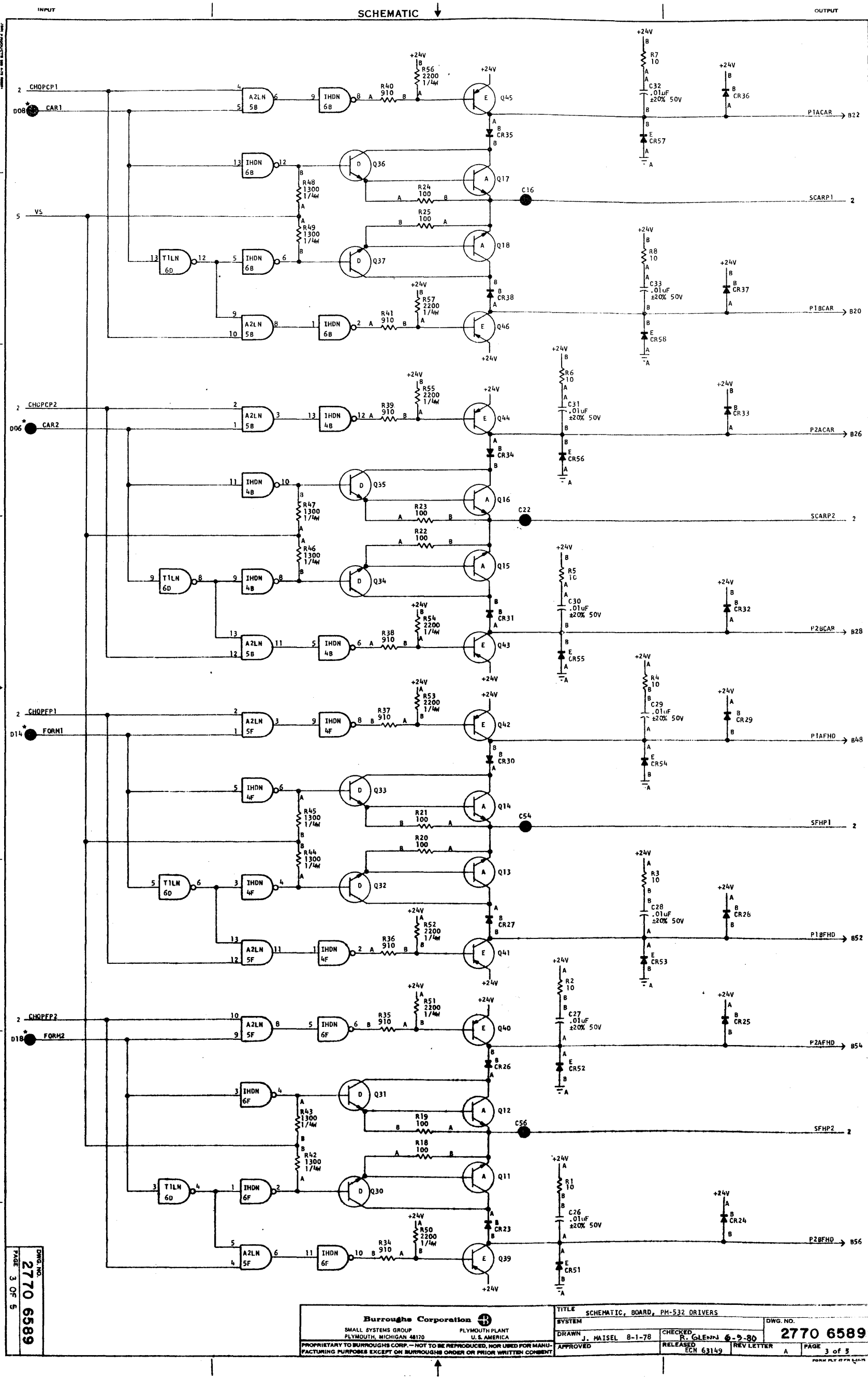
PAGE 2 OF 5 DWG. NO. 2770 6589

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA

TITLE: SCHEMATIC, BOARD, PM-532 DRIVERS			
SYSTEM			DWG. NO. 2770 6589
DRAWN J.MAISEL 8-1-78	CHECKED R. GLENN 6-9-80		
APPROVED	RELEASED ECN 63149	REV LETTER A	PAGE 2 of 5

FORM FL-Y 47 FR 3-84-78

INPUT | SCHEMATIC ↓ | OUTPUT



DWG. NO. 2770 6589
PAGE 3 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE	SCHEMATIC, BOARD, PM-532 DRIVERS		
SYSTEM		DWG. NO.	2770 6589
DRAWN J. MAISEL 8-1-78	CHECKED R. GLENN 6-2-80		
APPROVED	RELEASED ECN 63149	REV LETTER A	PAGE 3 of 5

5 VPSOL

D24 * PIN1/

D26 * PIN2/

D28 * PIN3/

D30 * PIN4/

D32 * PIN5/

D38 * PIN6/

5 OFFREF

D40 * PIN7/

+5V

RPKN 2k 1D

10k 1/4W 1A

10k 1/4W 1G

CP4N 2A

CP4N 2G

IHDN 2C

IHDN 3C

IHDN 2E

CR1 CR2 CR3 CR4 CR5 CR6 CR7

R61 2200 R62 2200 R63 2200 R64 2200 R65 2200 R66 2200 R67 2200

C30 C32 C40 C42 C34 C36 C38

+24V

CR39 CR40 CP41 CR42 CR43 CR44 CR45

CR13 CR14 CR15 CR16 CR17 CR18 CR19

Q1 Q19 Q2 Q20 Q3 Q21 Q4 Q22 Q5 Q23 Q6 Q24 Q7 Q25

R9 100 R10 100 R11 100 R12 100 R13 100 R14 100 R15 100

R102 .25 ±1% 1W R103 .25 ±1% 1W R104 .25 ±1% 1W R105 .25 ±1% 1W R106 .25 ±1% 1W R107 .25 ±1% 1W R108 .25 ±1% 1W

PHDRVR1/ → B06

PHDRVR2/ → B08

PHDRVR3/ → B10

PHDRVR4/ → B12

PHDRVR5/ → B16

PHDRVR6/ → B14

PHDRVR7/ → B18

DWG. NO. 2770 6589 PAGE 4 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

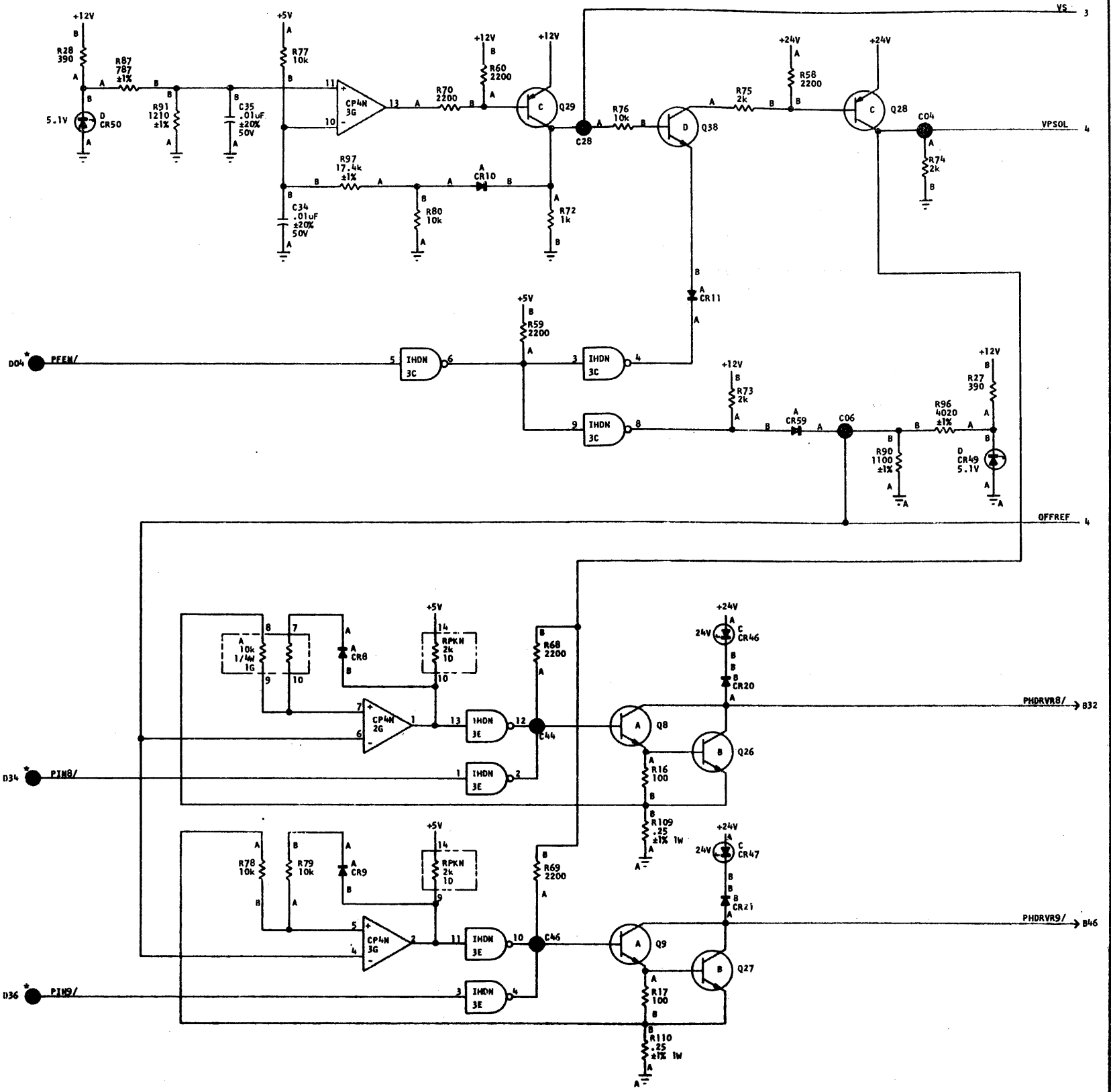
TITLE SCHEMATIC, BOARD, PM-532 DRIVERS
SYSTEM
DRAWN J.HAISEL 8-1-78
CHECKED R.GLENN 6-9-80
APPROVED
RELEASED ECN 63149
DWG. NO. 2770 6589
REV LETTER A
PAGE 4 of 5

FORM PLY 47 PR 2-80-79

INPUT

SCHEMATIC

OUTPUT



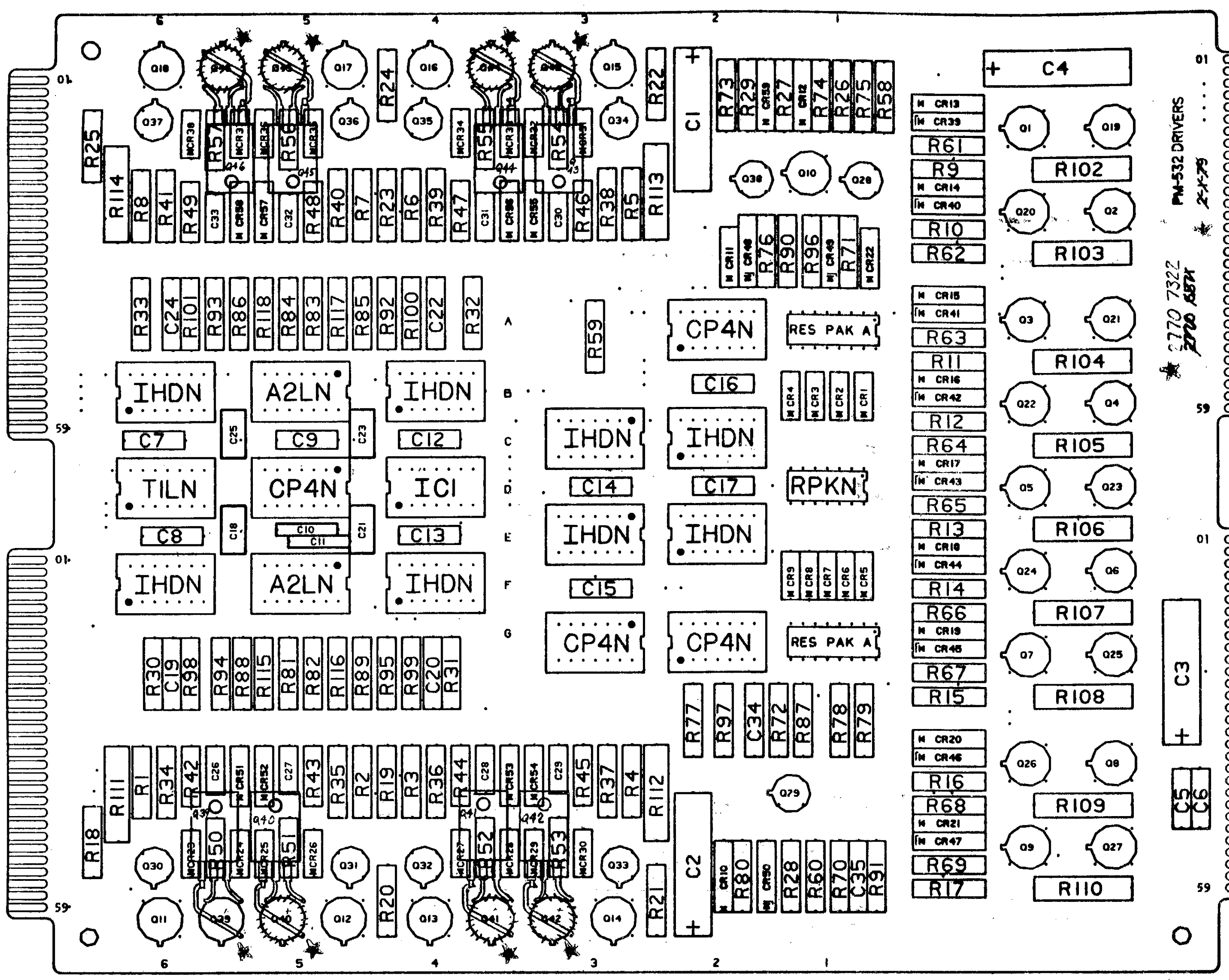
DWG. NO. 2770 6589
PAGE 5 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT U.S. AMERICA

TITLE	SCHEMATIC, BOARD, PH-532 DRIVERS		
SYSTEM		DWG. NO.	2770 6589
DRAWN	J.MAISEL 8-1-78	CHECKED	R. GLENN 6-9-80
APPROVED		RELEASED	ECN 63149
REV LETTER	A	PAGE	5 of 5

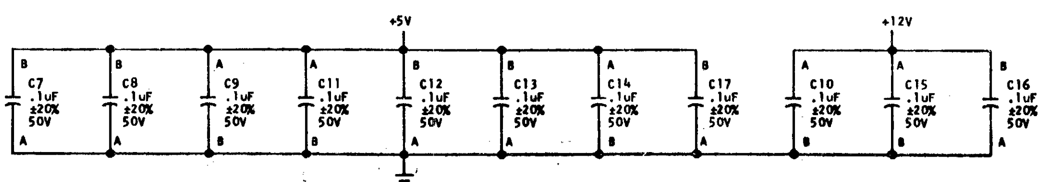
SCHEMATIC

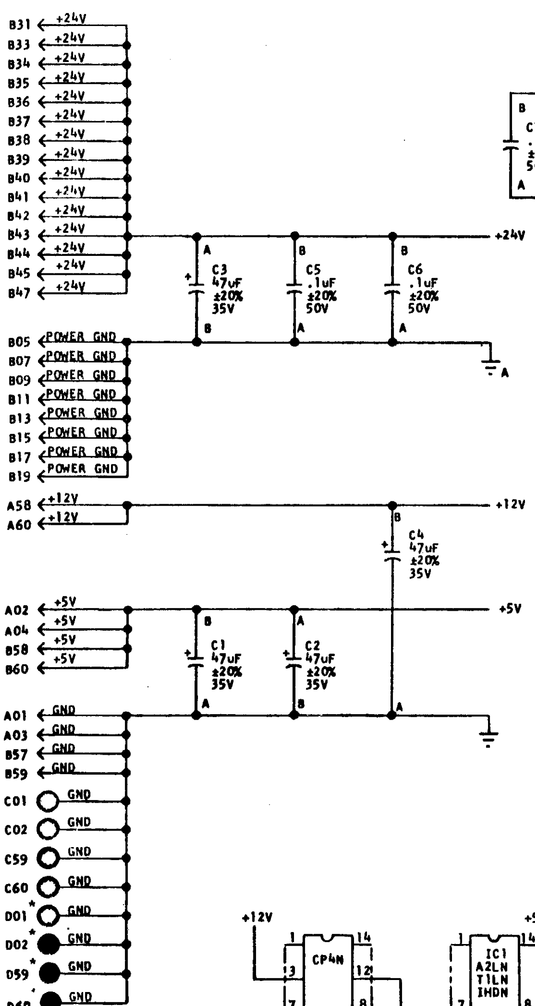
INPUT | OUTPUT



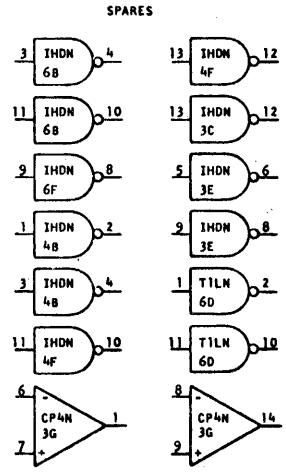
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT.

DECOUPLING CAPACITORS FOR TTL PACKAGES





SPARES



NOTES:

1. FOR ASSEMBLY SEE ~~2770 6571 REV A~~ 2770 7322
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S	RESISTOR PKG	TRANSISTORS	DIODES
A2LN - 2846 6647	A - 2726 2633	A - 1473 4255	A - 1471 4703
TILN - 2607 1803	RPKN - 2108 5121	B - 2475 3956	B - 1471 4737
IC1 - 2848 0895		C - 2200 6548	C - 1920 4973
~~IHDN - 2770 6563~~		D - 2208 4362	D - 1517 1275
CP4N - 2118 8297		E - ~~1472 4828~~ 2771 7115	E - 1472 6277
IHDN - 1674 4963			

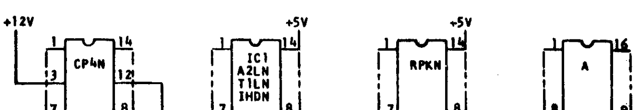
4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK (*) MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.

UNLESS OTHERWISE SPECIFIED:

ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W.
ALL RESISTANCE PKG RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.

ECN # 63514

PLYMOUTH REWORK INSTRUCTION V'D J.H. 10-15 80
PROJECT 51071
GROUP 11
DATE ——



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

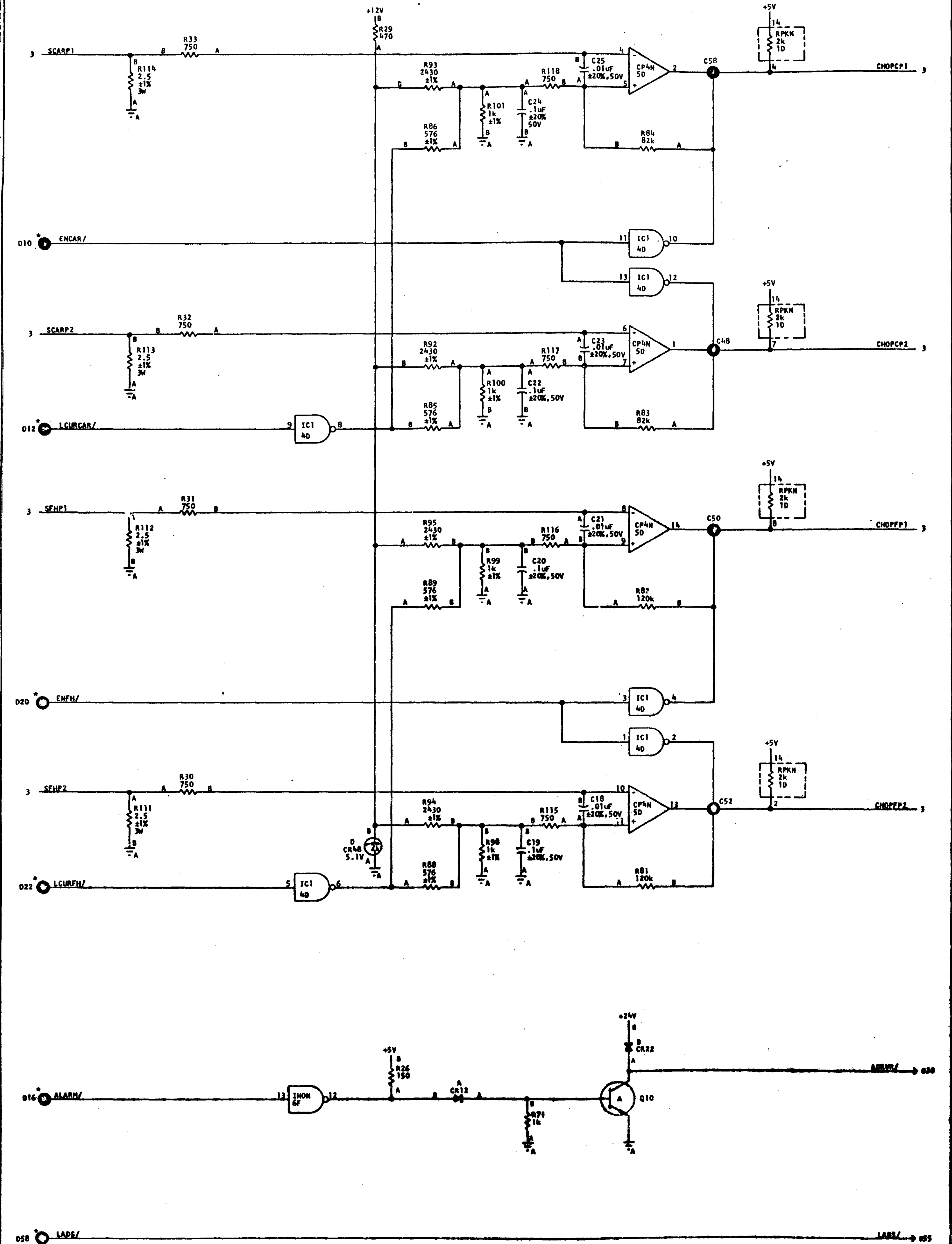
PAGE	DWG. NO.	REV	
1 OF 5	~~2770 6589~~ 2770 7314	A	
	RELEASED	ECN ~~60148~~	
		ECN 63514 REWORK INSTRUCTION	

C.C. 2-9520

Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, PM-532 DRIVERS		DWG. NO. 2770 7314 ~~2770 6589~~
	SYSTEM		
	DRAWN J. MAISEL 8-1-78	CHECKED R. GLENN 6-9-80	
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	APPROVED R. [illegible] 10 Jun '80	RELEASED ECN 63514 ~~60148~~	REV LETTER A — PAGE 1 of 5

FORM PLY 87 PR

INPUT SCHEMATIC OUTPUT



PLYMOUTH REWORK INSTRUCTION
PROJECT 51071
GROUP 11
DATE ——

PAGE 2 OF 5
DWG. NO. 2770 7314 ~~2770 6589~~

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

TITLE SCHEMATIC, BOARD, PM-532 DRIVERS			DWG. NO. 2770 7314 ~~2770 6589~~
SYSTEM			
DRAWN J. MAISEL 8-1-78	CHECKED R. GLENN 6-9-80		
APPROVED	RELEASED ECN 69514	REV LETTER A	PAGE 2 of 5

INPUT | SCHEMATIC | OUTPUT

2 CHOPCP1
D08 CAR1
5 VS
2 CHOPCP2
D06 CAR2
D14 FORM1
D18 FORM2

A2LN 5B
IHDN 6B
T1LN 6D
IHDN 4B
A2LN 5F
IHDN 4F
IHDN 6F

R40 910 4700 1/4W
R39 910 4700 1/4W
R38 910 4700 1/4W
R37 910 4700 1/4W
R36 910 4700 1/4W
R35 910 4700 1/4W
R34 910 4700 1/4W
R56 2200 1K 1/4W
R55 2200 1K 1/4W
R54 2200 1K 1/4W
R53 2200 1K 1/4W
R52 2200 1K 1/4W
R51 2200 1K 1/4W
R50 2200 1K 1/4W

Q45 Q44 Q43 Q42 Q41 Q40 Q39
Q36 Q35 Q34 Q33 Q32 Q31 Q30
Q17 Q16 Q15 Q14 Q13 Q12 Q11
Q18 Q37

R48 1300 1/4W
R49 1300 1/4W
R47 1300 1/4W
R46 1300 1/4W
R45 1300 1/4W
R44 1300 1/4W
R43 1300 1/4W
R42 1300 1/4W

R24 100
R25 100
R23 100
R22 100
R21 100
R20 100
R19 100
R18 100

C16
C22
C54
C56

SCARP1 2
SCARP2 2
SFHP1 2
SFHP2 2

R7 10
R8 10
R6 10
R5 10
R4 10
R3 10
R2 10
R1 10

C32 .01uF ±20% 50V
C33 .01uF ±20% 50V
C31 .01uF ±20% 50V
C30 .01uF ±20% 50V
C29 .01uF ±20% 50V
C28 .01uF ±20% 50V
C27 .01uF ±20% 50V
C26 .01uF ±20% 50V

CR35 CR38 CR34 CR31 CR30 CR27 CR26 CR23
CR57 CR58 CR56 CR55 CR54 CR53 CR52 CR51
CR36 CR37 CR33 CR32 CR29 CR28 CR25 CR24

P1ACAR B22
P1BCAR B20
P2ACAR B26
P2BCAR B28
P1AFHD B48
P1BFHD B52
P2AFHD B54
P2BFHD B56

PLYMOUTH REVISION [illegible] 51071 GROUP 11 DATE —

PAGE 3 OF 5 DWG. NO. 2770 7314 2770 6589

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 PLYMOUTH PLANT U.S. AMERICA

PROPRIETARY TO BURROUGHS CORP. — NOT TO BE REPRODUCED, NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

TITLE SCHEMATIC, BOARD, PM-532 DRIVERS
SYSTEM
DRAWN J. MAISEL 8-1-78
CHECKED R. GLENN 6-9-80
APPROVED
RELEASED 63514 ECN 64144
DWG. NO. 2770 7314 2770 6589
REV LETTER A
PAGE 3 of 5

5 VPSOL

D24* PIN1/

D26* PIN2/

D28* PIN3/

D30* PIN4/

D32* PIN5/

D36* PIN6/

5 OFFREF

D40* PIN7/

+5V

+24V

CP4N 2A

CP4N 2G

RPKN 2k 1D

RFKN 2k 1D

10k 1/4W 1A

10k 1/4W 1G

IHDN 2C

IHDN 2E

IHDN 3C

CR1 CR2 CR3 CR4 CR5 CR6 CR7

CR39 CR40 CR41 CR42 CR43 CR44 CR45

CR13 CR14 CR15 CR16 CR17 CR18 CR19

R61 2200 R62 2200 R63 2200 R64 2200 R65 2200 R66 2200 R67 2200

C30 C32 C40 C42 C34 C36 C38

Q1 Q2 Q3 Q4 Q5 Q6 Q7

Q19 Q20 Q21 Q22 Q23 Q24 Q25

R9 100 R10 100 R11 100 R12 100 R13 100 R14 100 R15 100

R102 .25 ±1% 1W

R103 .25 ±1% 1W

R104 .25 ±1% 1W

R105 .25 ±1% 1W

R106 .25 ±1% 1W

R107 .25 ±1% 1W

R108 .25 ±1% 1W

PHDRVR1/ → B06

PHDRVR2/ → B08

PHDRVR3/ → B10

PHDRVR4/ → B12

PHDRVR5/ → B16

PHDRVR6/ → B14

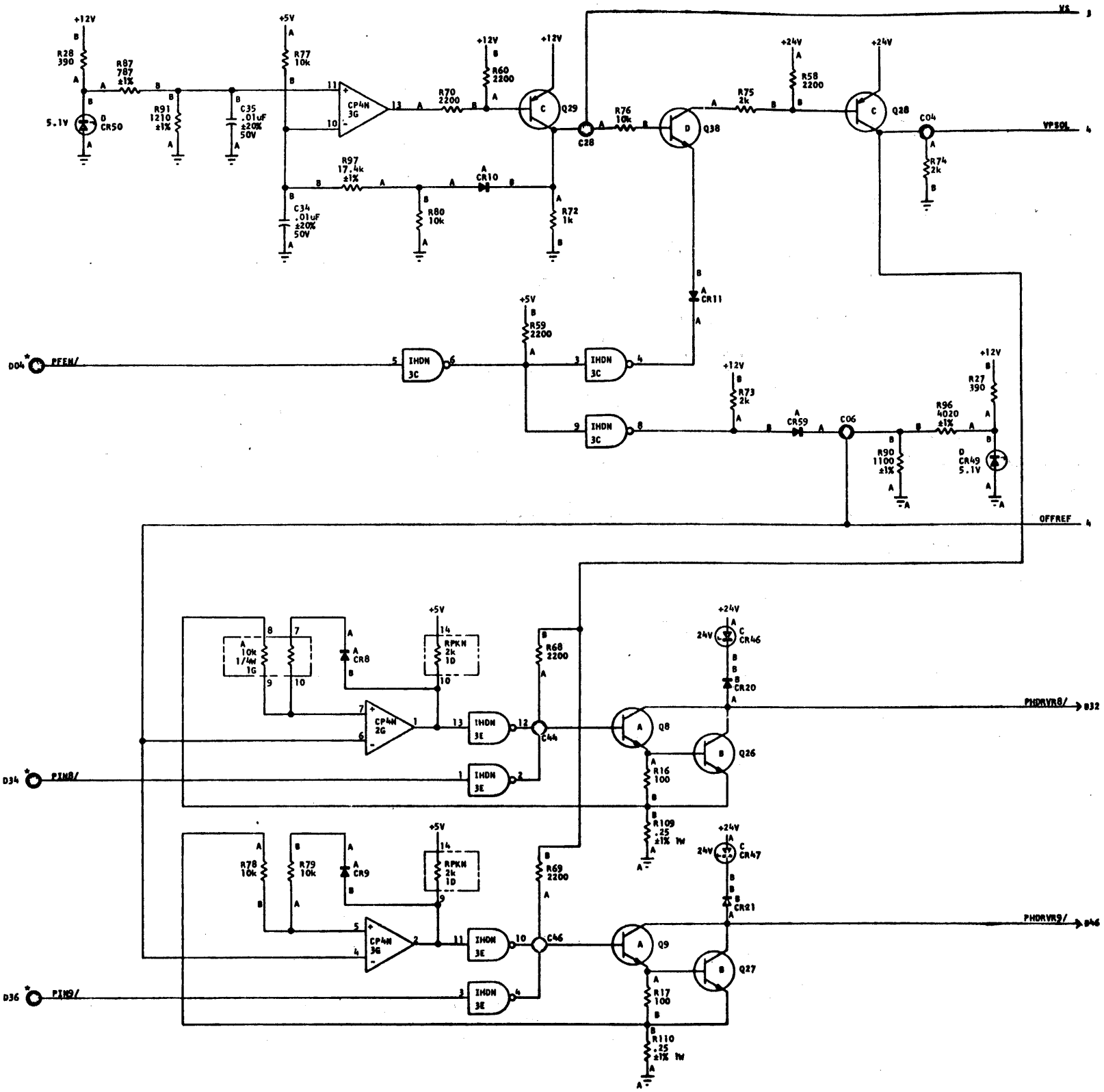
PHDRVR7/ → B18

PLYMOUTH REWORK INSTRUCTION
PROJECT 51071
GROUP II
DATE ——

PAGE 4 OF 5
DWG. NO. 2770 7314 2770 6589

TITLE SCHEMATIC, BOARD, PM-532 DRIVERS
SYSTEM
DRAWN J.MAISEL 8-1-78
CHECKED R.GLENN 6-9-80
APPROVED
RELEASED ECN 6514
DWG. NO. 2770 7314 2770 6589
REV LETTER A
PAGE 4 of 5

INPUT | SCHEMATIC | OUTPUT



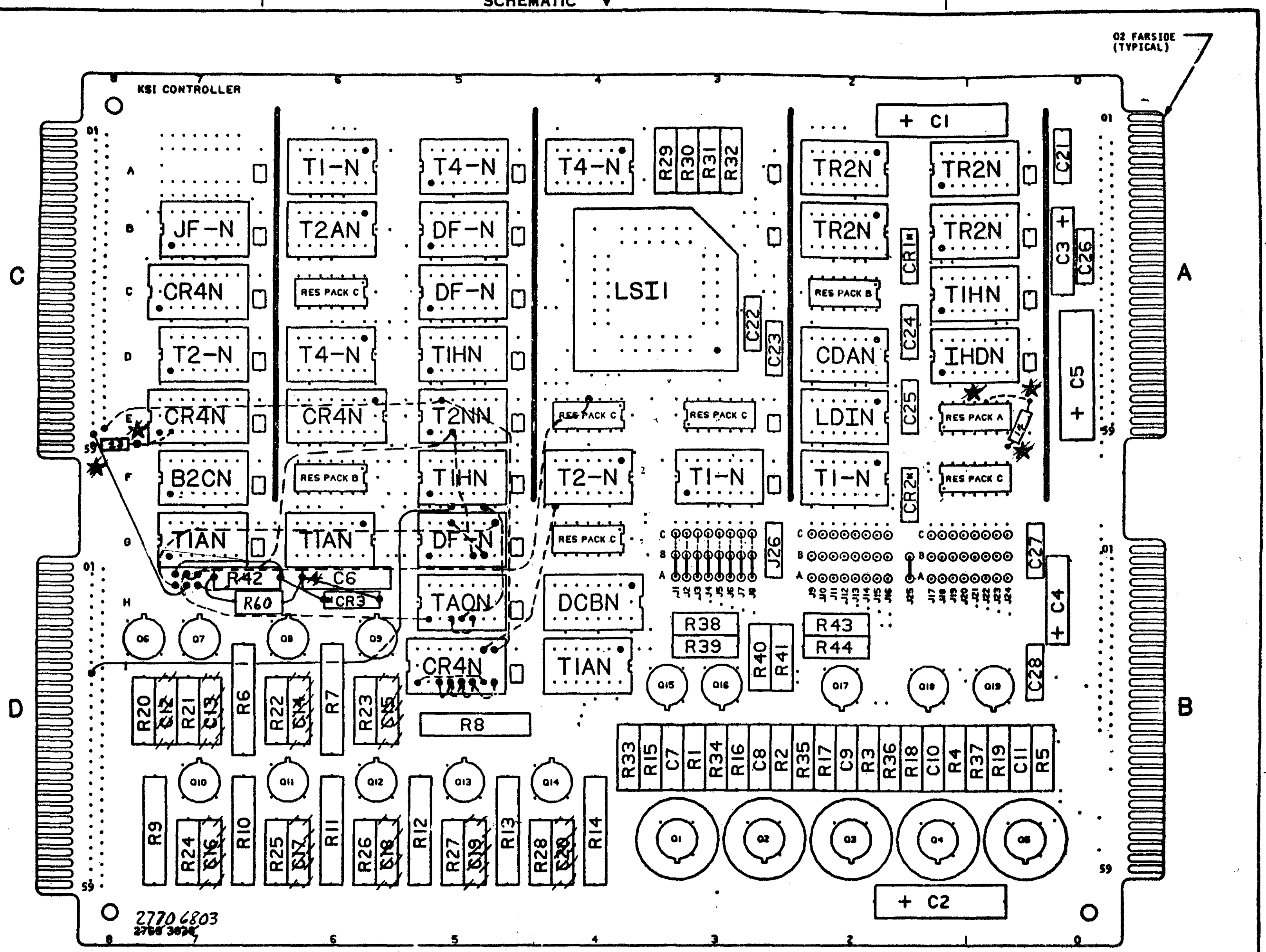
PLYMOUTH REWORK INSTRUCTION
PROJECT 51071
GROUP 11
DATE —

DWG. NO. 2770 7314 / 2770 6589 ★
PAGE 5 OF 5

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

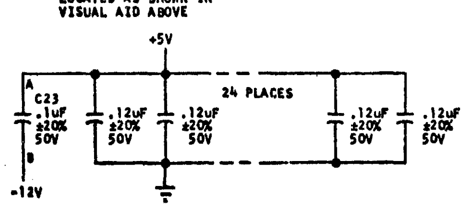
TITLE	SCHEMATIC, BOARD, PM-532 DRIVERS		
SYSTEM		DWG. NO.	2770 7314 / 2770 6589 ★
DRAWN J.MAISEL 8-1-78	CHECKED R. GLENN 6-9-80		
APPROVED	RELEASED ECN 64274 64299	REV LETTER A	PAGE 5 of 5

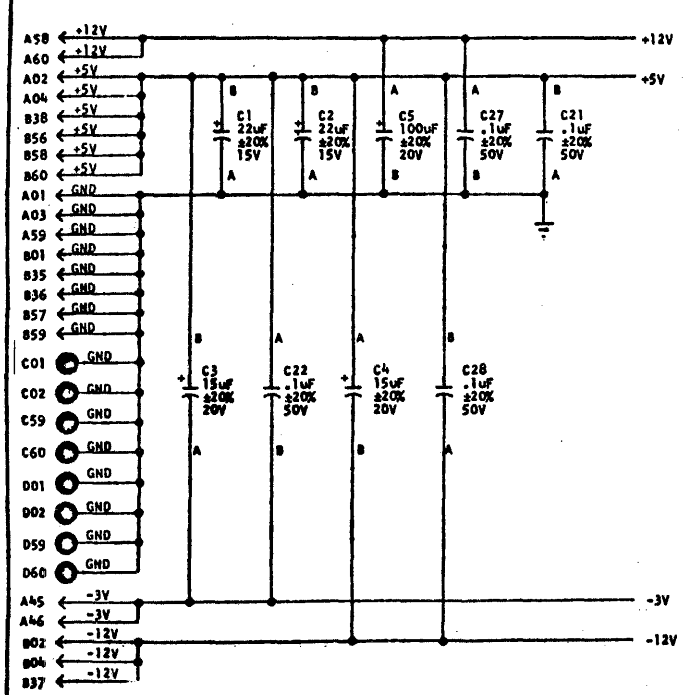
SCHEMATIC



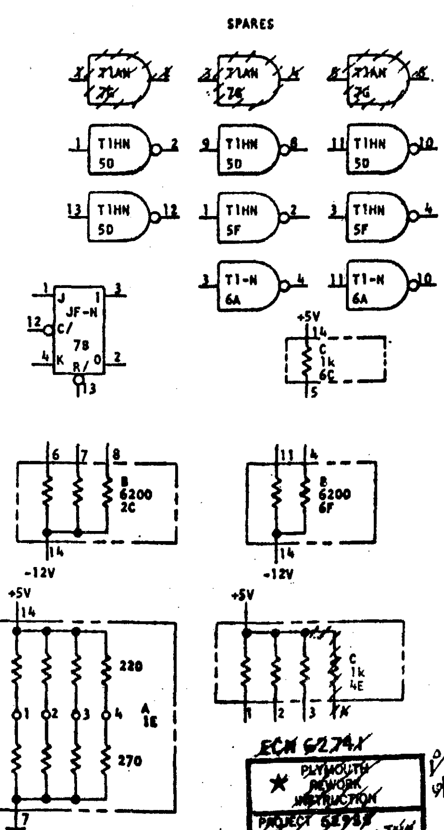
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE





SPARES



NOTES:

1. FOR ASSEMBLY SEE ~~2769 3028~~ 2770 6803 REV A
   FOR FINAL ASSEMBLY SEE ~~2769 1514~~ 2770 6795
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S	
TR2N	2472 2548
T1HN	1479 7971
T1-N	1447 3532
T2-N	1447 3516
T1AN	2600 1669
IHDN	1674 4963
DF-N	1447 3607
T2NN	2600 4911
CR4N	1447 3771
TAON	1901 7102
CDAN	1846 5229
LDIN	1848 4576
DCBN	1449 2581
T2AN	1447 3524
T4-N	1447 3565
JF-N	1447 3615
B2CN	1447 3581

RESISTOR PKG'S	
A	1847 8230
B	1847 9964
C	2108 4827

TRANSISTORS	
A	1847 0252
B	1473 4255
C	1471 4828

DIODE	
A	1471 4703

4. INSERT SPRING LINK JUMPERS IN JUMPER POSITIONS WHEN A "0" BIT SENSE IS INDICATED BELOW:
   A. THE KEYBOARD VERSION NUMBER IS CODED (BINARY) WITH J4, J5, J6, J7 AND J8 IN THE FOLLOWING ORDER:

	(MS) J4	J8	J7	J6	(LS) J5
EXAMPLE FOR VERSION 18, BIT SENSE	1	0	0	1	0

   B. J1 AND J3 ARE PLACED ACCORDING TO PROCESSOR SPEED:

PROCESSOR SPEED	BIT SENSE J1	BIT SENSE J3
1 MHz	0	0
2 MHz	1	0

   C. J2 IS PLACED ACCORDING TO CHARACTER SET:

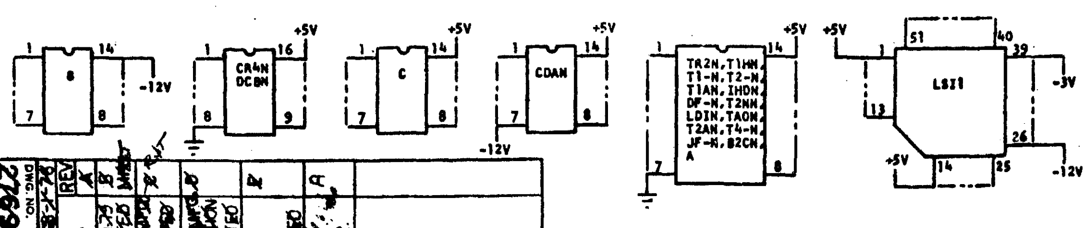
CHARACTER SET	J2 BIT SENSE
64 CHARACTER	0
96 CHARACTER	1

5. SPRING LINK JUMPER MUST BE INSERTED IN JUMPER POSITION J25 FOR ALL MACHINE CONFIGURATIONS. JUMPER POSITIONS J9 THROUGH J24 ARE NOT TO BE USED.

ECN 6274X
PLYMOUTH REWORK INSTRUCTION
PROJECT 6293
GROUP
DATE

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W.
ALL RESISTOR PKG RESISTANCE VALUES ARE IN OHMS, ±2%, 1/CW.

ECN 62828
PLYMOUTH REWORK INSTRUCTION
PROJECT 8131B
GROUP 30
EK
PAGE 1 AFFECTED



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

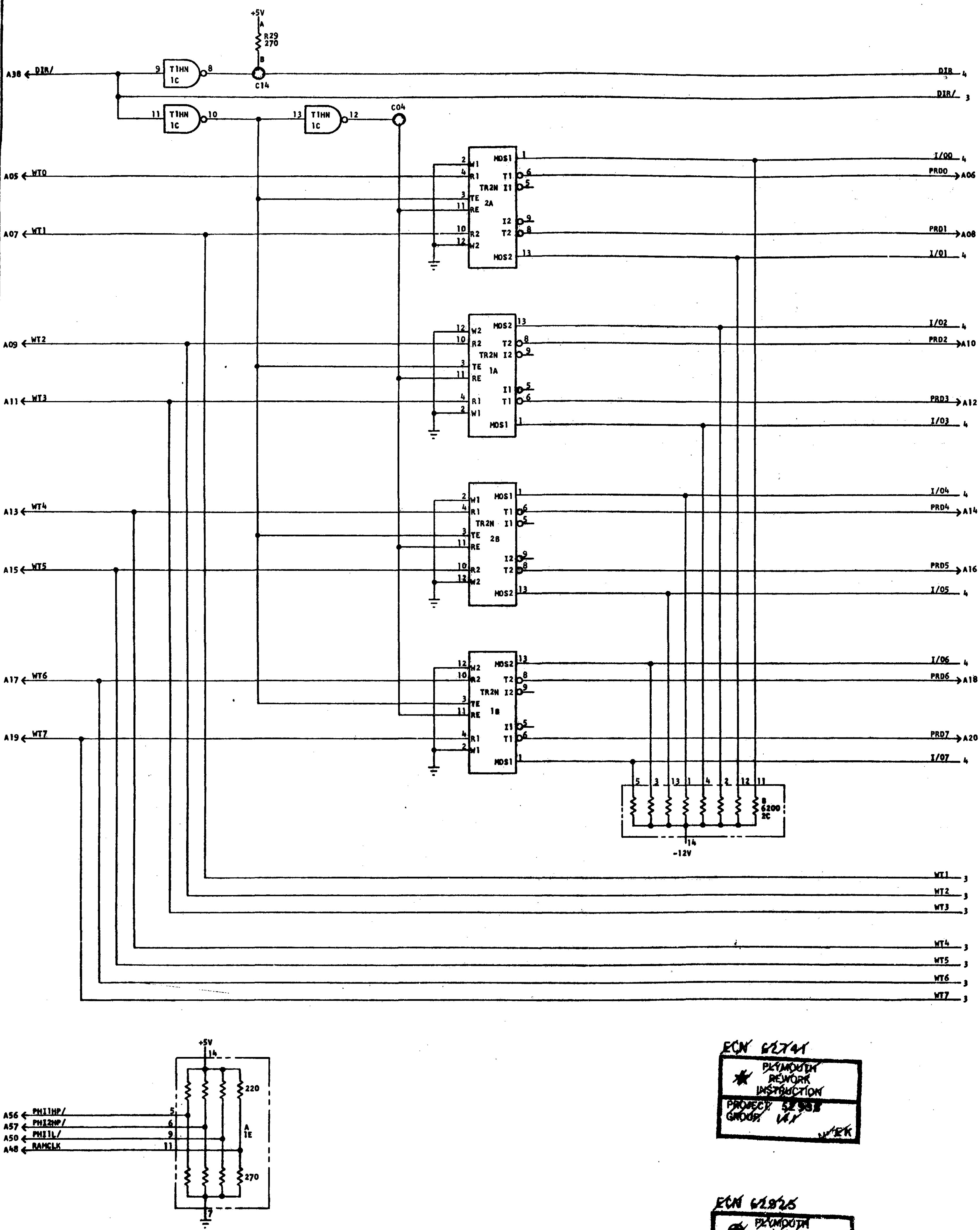
REV	
	RELEASED 11-8-78
A	ER 62926 SHEET 1 AFFECTED
B	ECN 6293X SHEET 1 AFFECTED
	ECN 6266Y PAGES 1,2,3 AFFECTED
	ECN 6274Y PLYMOUTH INSTRUCTION PAGES 1,3,5 AFFECTED
	ECN 62828 REWORK INSTR. PAGE 1 AFFECTED
A	ECN 63393/1 REWORK INSTR.

PAGE 1 OF 5

C.C2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT, U. S. AMERICA

TITLE: SCHEMATIC, BOARD, KSI CONTROLLER
DRAWN: KARAS 9-26-78
CHECKED: 10-3-78
APPROVED: 12-6-78
RELEASED: 8-1-78
DWG. NO. ~~2769 3044~~ 2770 6811
PAGE 1 of 5

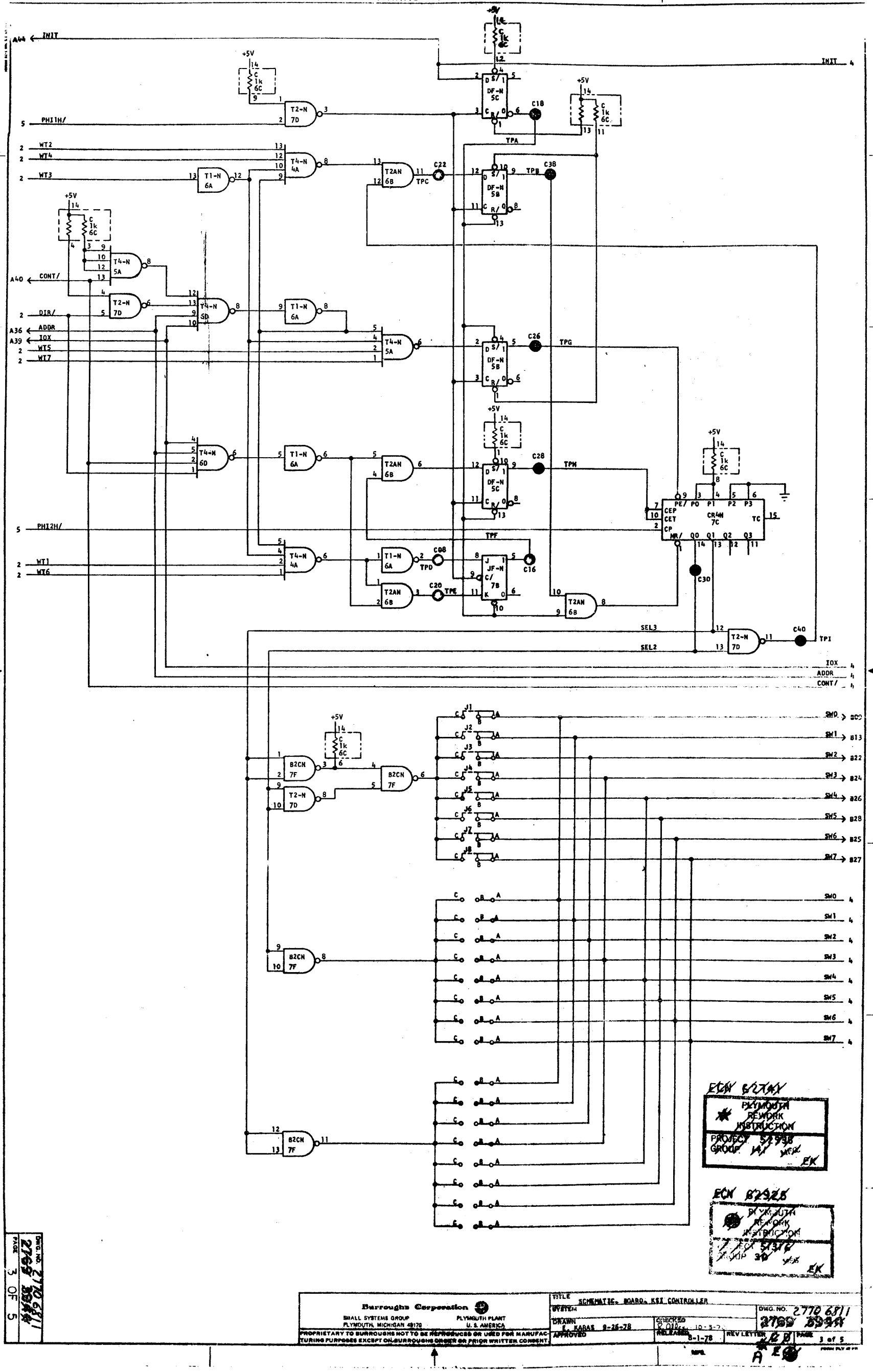


ECN 62741
PLYMOUTH REWORK INSTRUCTION
PROJECT 52988
GROUP 141

ECN 62925
PLYMOUTH REWORK INSTRUCTION
PROJECT 51378
GROUP 30

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

TITLE	SCHEMATIC, BOARD, KSI CONTROLLER
DRAWN	E. KARAS 9-26-78
CHECKED	10-3-78
RELEASED	8-1-78
DWG. NO.	2770 6811 / 2769 394A
REV LETTER	[illegible]
PAGE	2 of 5

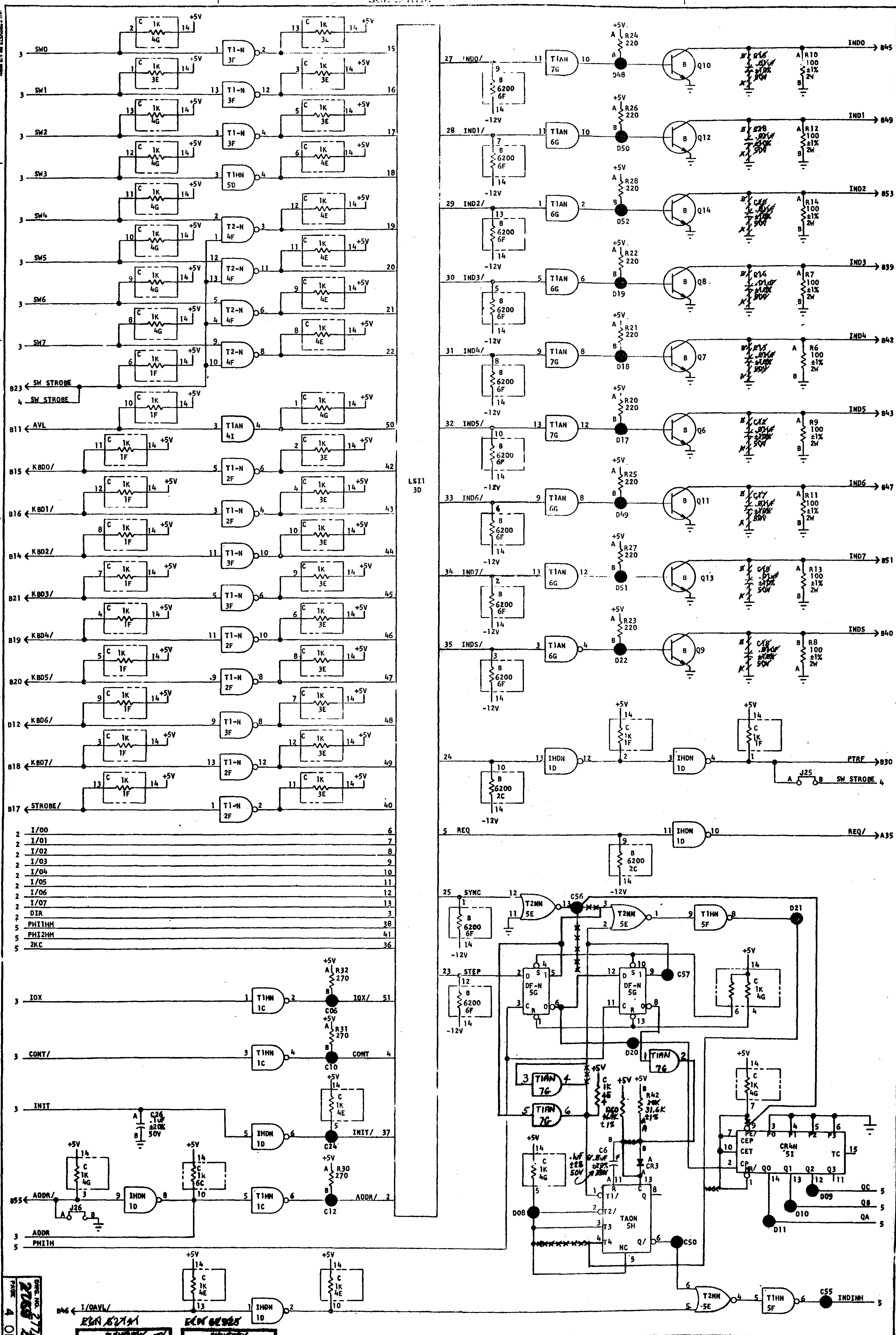


ECN B2XXX
PLYMOUTH REWORK INSTRUCTION
PROJECT 52938
GROUP 14A

ECN B2926
PLYMOUTH REWORK INSTRUCTION
PROJECT 51376
GROUP 30

Burroughs Corporation		TITLE SCHEMATIC, BOARD, KBX CONTROLLER	DWG. NO. 2770 6811
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170	PLYMOUTH PLANT, U.S. AMERICA	SYSTEM	2769 6944
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT		DRAWN E. KARAS 9-26-78 / CHECKED R. OLP... 10-3-7 / APPROVED / RELEASED 8-1-78	REV LETTER A B / PAGE 3 of 5

DWG. NO. 2769 6944 2770 6811
PAGE 3 OF 5


INPUT
SCHEMATIC
OUTPUT
SW0
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW STROBE
AVL
KBD0/
KBD1/
KBD2/
KBD3/
KBD4/
KBD5/
KBD6/
KBD7/
STROBE/
I/00
I/01
I/02
I/03
I/04
I/05
I/06
I/07
DIR
PHI1HH
PHI2HH
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IND1/
IND2/
IND3/
IND4/
IND5/
IND6/
IND7/
INDS/
IND0
IND1
IND2
IND3
IND4
IND5
IND6
IND7
INDS
PTRF
REQ
REQ/
SYNC
STEP
CR4N 5I
TAON 5H
DF-N 5G
QC
QB
QA
INDINH
ECN 62741
ECN 62925
PLYMOUTH REWORK INSTRUCTION

Burroughs Corporation

SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170

PLYMOUTH PLANT
U.S. AMERICA

TITLE SCHEMATIC, BOARD, KSI CONTROLLER

SYSTEM

DRAWN E. KARAS 9-26-78

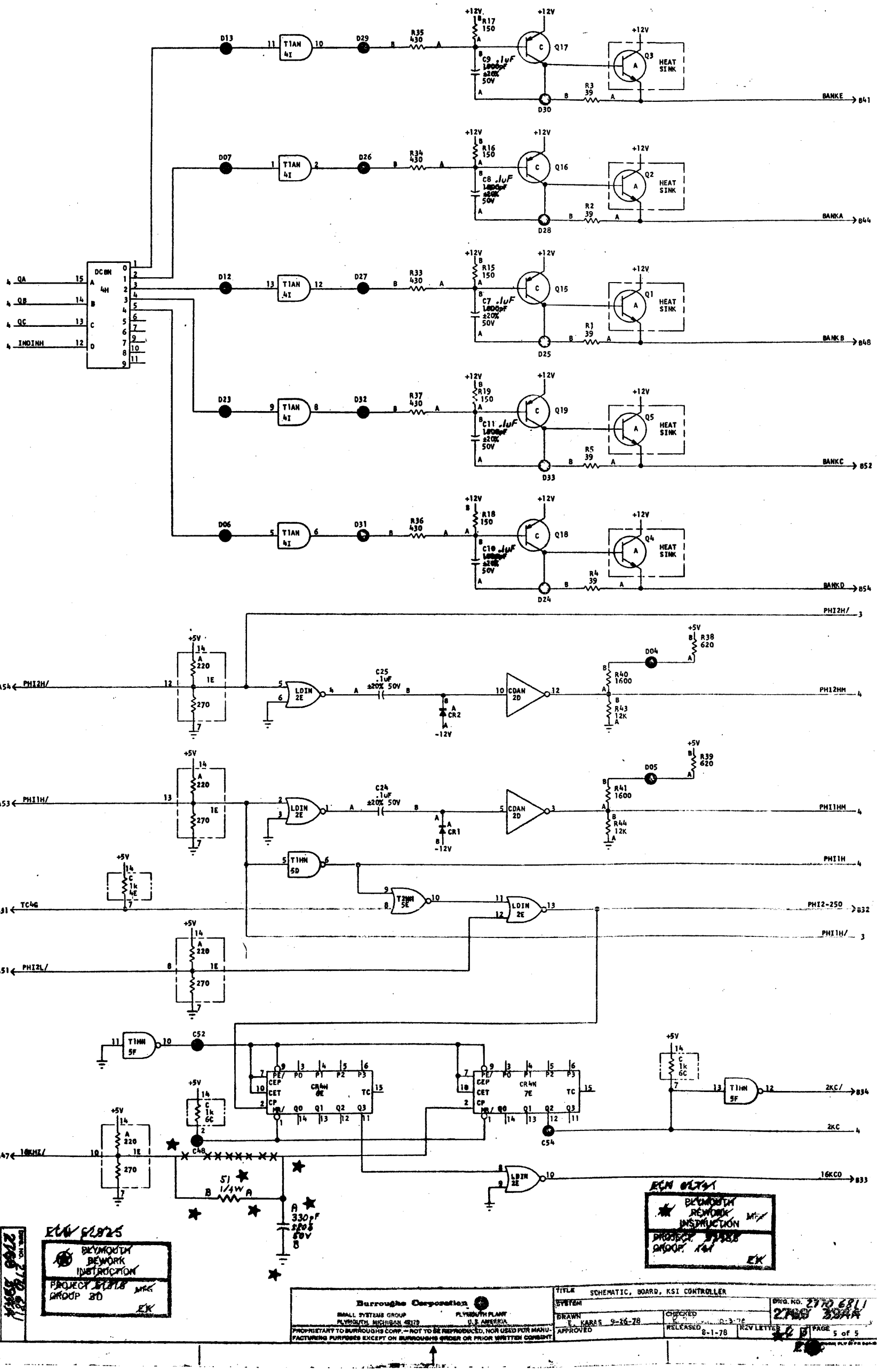
CHECKED 10-3-78

APPROVED

RELEASED 8-1-78

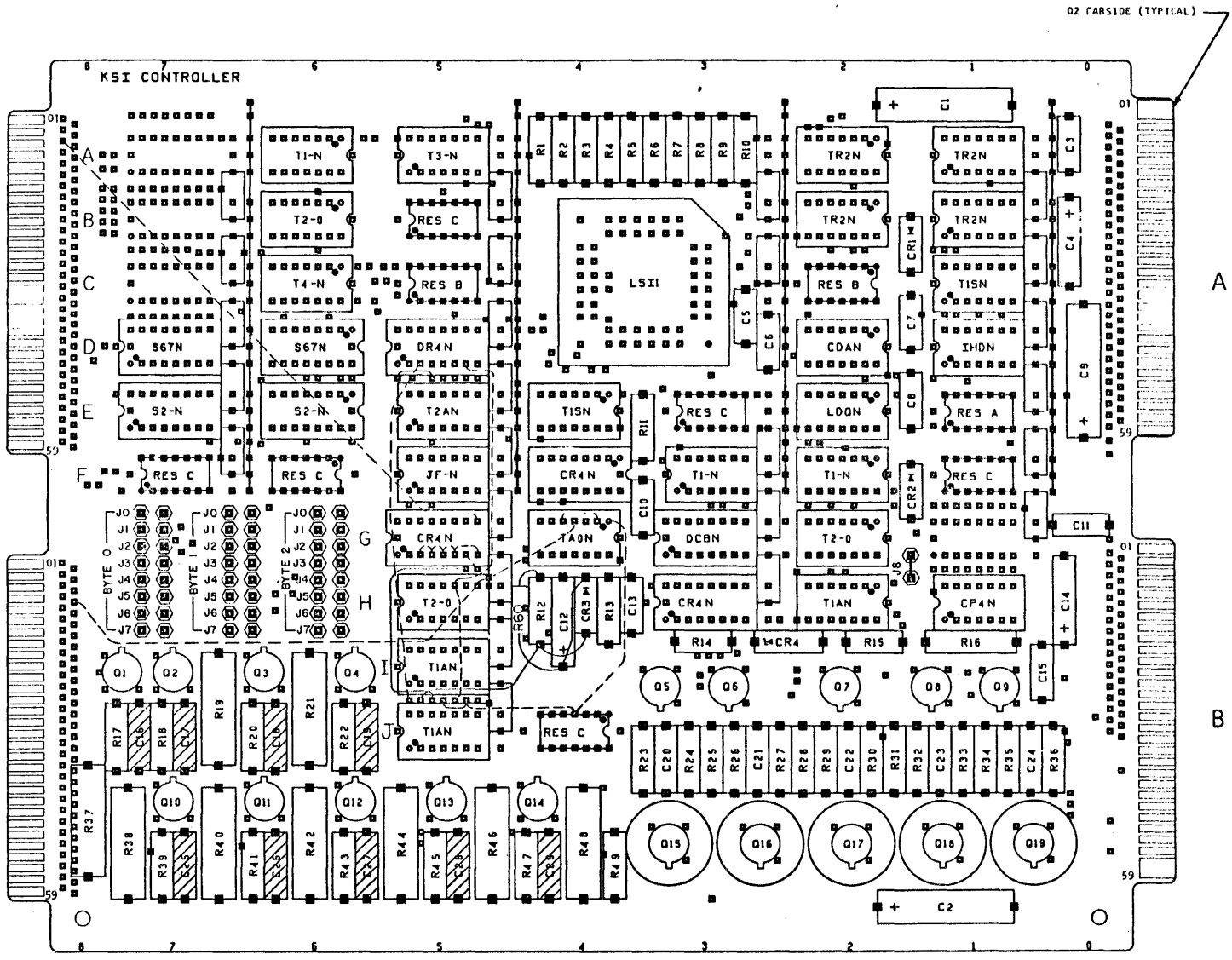
DWG. NO. 2770 6811 / 2789 3844

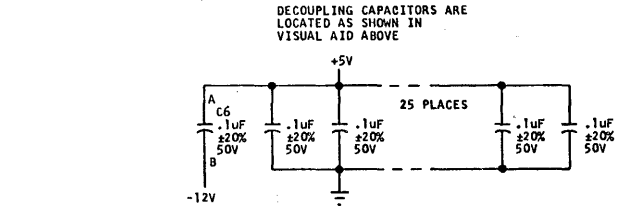
REV LETTER

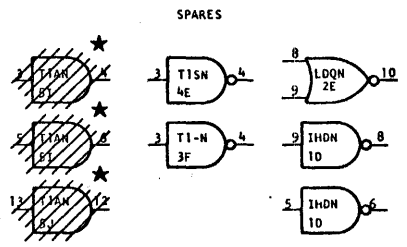


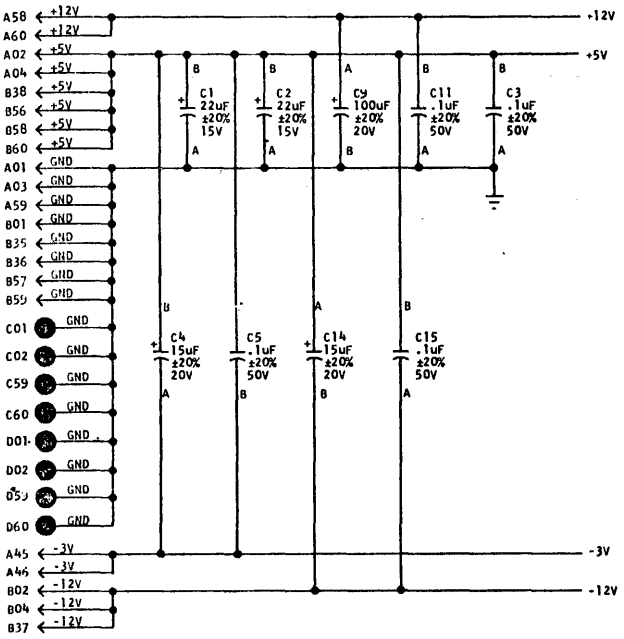
Burroughs Corporation — SMALL SYSTEMS GROUP — PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT — U.S. AMERICA	TITLE SCHEMATIC, BOARD, KSI CONTROLLER	DWG. NO. 2770 6811	
	SYSTEM		
	DRAWN E. KARAS 9-26-78	CHECKED D. 3-78	
	APPROVED	RELEASED 8-1-78	REV LETTER K L
PROPRIETARY TO BURROUGHS CORP. — NOT TO BE REPRODUCED, NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT			PAGE 5 of 5

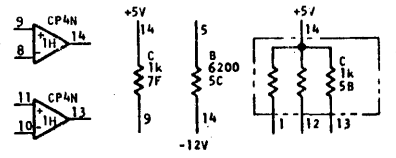
SHEET 5 OF 5 — DWG. NO. 2770 6811

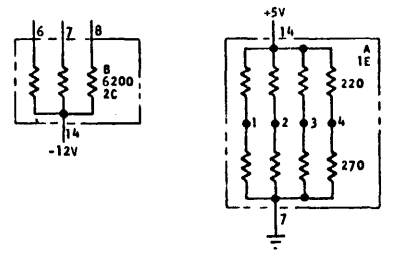












NOTE:
*PIN A OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FARTHEST TO THE RIGHT

NOTES:

1. FOR ASSEMBLY SEE 2770 6837 REV A
   FOR FINAL ASSEMBLY SEE 2770 6829(PL)
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

TR2N - 2472 2548
TISN - 2600 1495
T1-N - 1447 3532
CP4N - 2118 8297
T1AN - 2640 1669
IHDN - 1674 4963
T2AN - 1447 3524
T2-0 - 2603 8653
LDQN - 1848 4576
T3-N - 1447 3540
T4-N - 1447 3565
CDAN - 1846 5229
DR4N - 1449 1278
JF-N - 1447 3615
CR4N - 1447 3771
S2-N - 1447 3797
S67N - 2370 8365
DCBN - 1449 2581
TAON - 1901 7102

RESISTOR PKG'S

A - 1847 8230
B - 1847 9964
C - 2108 4827

TRANSISTORS

A - 1847 0252
B - 1473 4255
C - 1471 4828

DIODES

A - 1471 4703
B - 1474 4213

4. INSERT SPRING LINK JUMPER IN JUMPER POSITIONS INDICATED BELOW WHEN A BIT SENSE "1" IS CALLED FOR:

JUMPER POSITION		BIT SENSE
	J8	1
BYTE 0	J0	1
	J1	* CHARACTER SET (SEE NOTE B)
	J2	1
	J3	*
	J4	* KEYBOARD VERSION
	J5	* NUMBER (SEE NOTE A)
	J6	*
	J7	*
BYTE 1	J0	*
	J1	* PROCESSOR SPEED
	J2	* (SEE NOTE C)
	J3	0
	J4	0
	J5	0
	J6	0
	J7	* (SEE NOTE D)
BYTE 2	J0	0
	J1	0
	J2	0
	J3	0
	J4	0
	J5	0
	J6	0
	J7	0

NOTE A: THE VERSION NUMBER IS CODED (BINARY) WITH THE JUMPERS IN THE FOLLOWING ORDER:

	(MS) J3	J7	J6	J5	(LS) J4	
EXAMPLE BIT SENSE:	1	0	0	1	0	FOR VERSION 18

NOTE B:

CHARACTER SET	J1 BIT SENSE
96	1
64	0

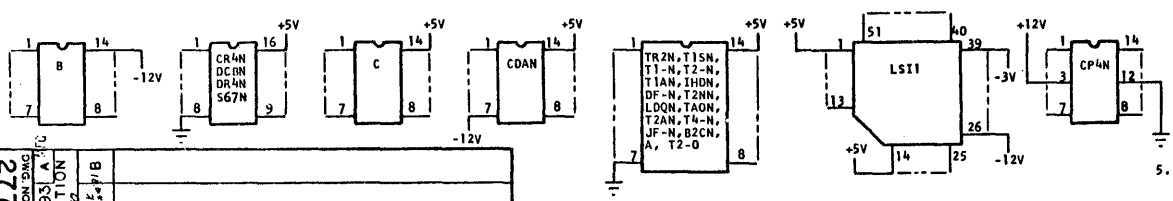
NOTE C:

PROCESSOR SPEED	BIT SENSE J2	J1	J0
1 MHz	0	0	0
2 MHz	0	0	1
4 MHz	0	1	1

NOTE D:

SYSTEM	J7 BIT SENSE
NO MTR KEYBOARD	0
MTR KEYBOARD	1

5. ★ INDICATES MODIFICATIONS TO ASSEMBLY 2770 1002 REV A TO BUILD ASSEMBLY 2770 6837 REV A



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS
★REF 2770 1028 REV A

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W

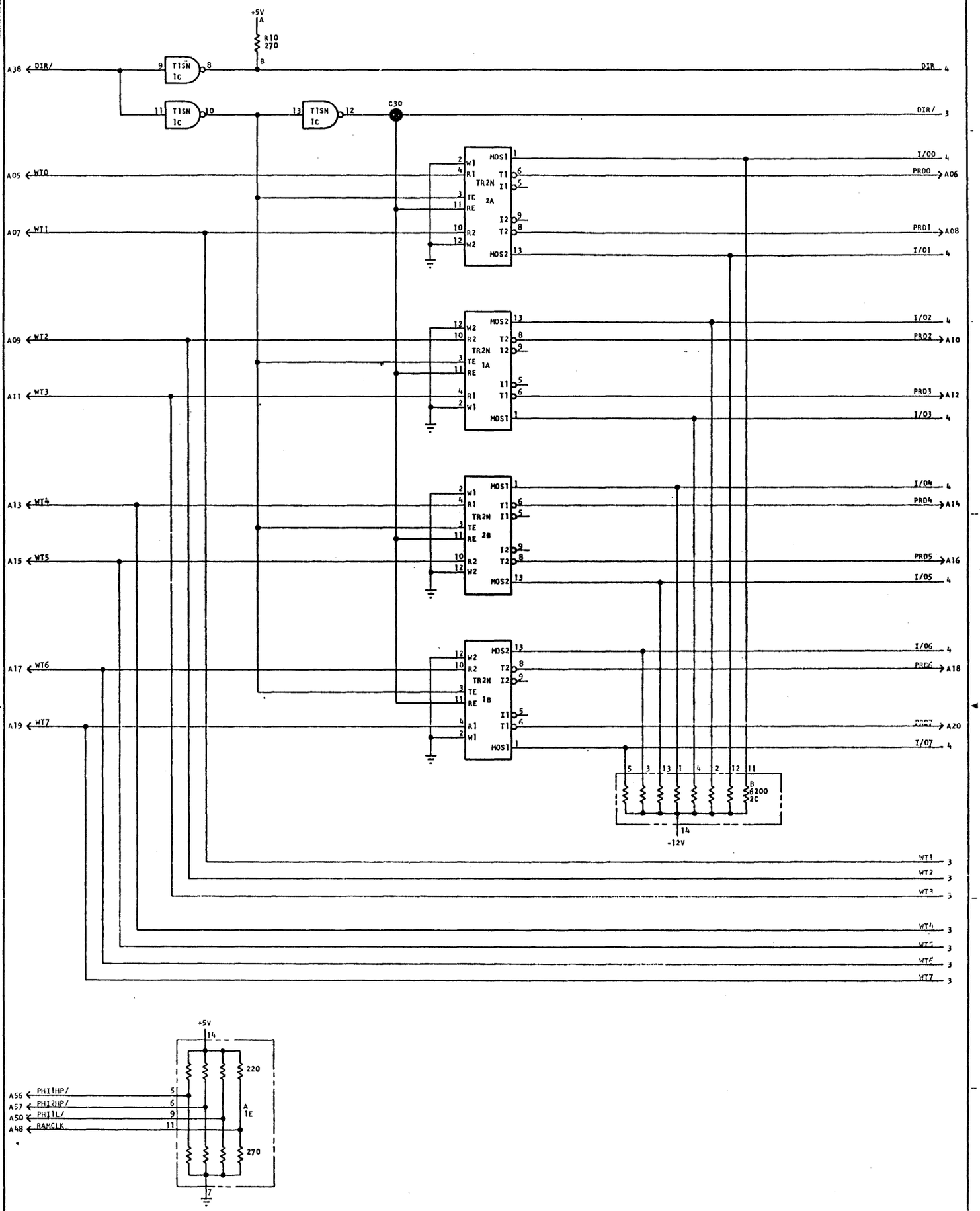
C.C. 2-9520

PAGE 1 OF 5
DWG NO. 2770 6845
RELEASED ECN 63393 REV A
REWORK INSTRUCTION
ECN 63792 PAGE 1 AFFECTED REV B

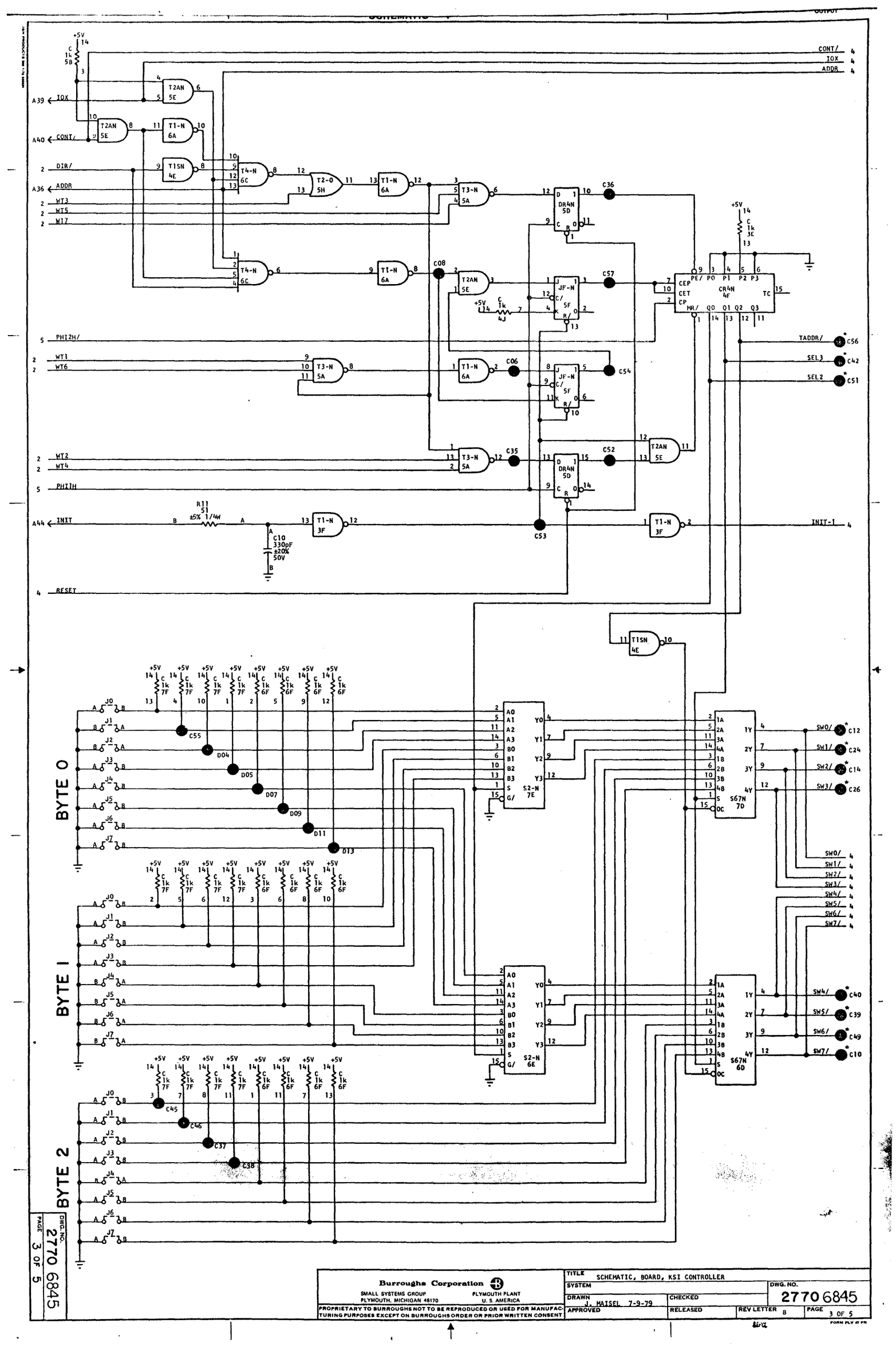
Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT
U. S. AMERICA

TITLE SCHEMATIC, BOARD, KSI CONTROLLER
SYSTEM
DRAWN KARAS 7-27-79
CHECKED
APPROVED
RELEASED
DWG. NO. 2770 6845
REV LETTER B
PAGE 1 OF 5

MFG

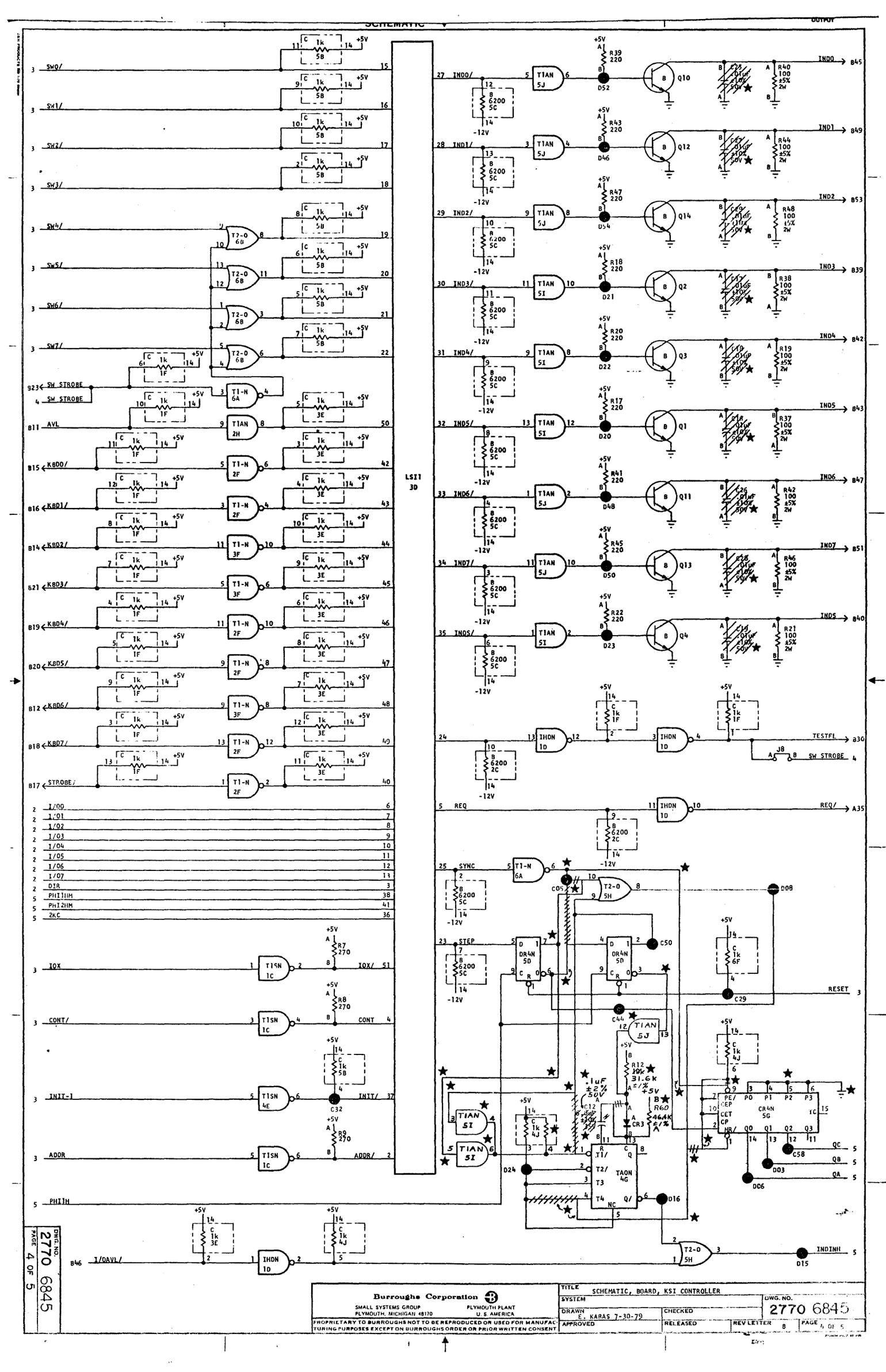


TITLE	SCHEMATIC, BOARD, KSI CONTROLLER		
SYSTEM			DWG. NO. 2770 6845
DRAWN	MAISEL 7-9-79	CHECKED	
APPROVED		RELEASED	REV LETTER B
			PAGE 2 of 5



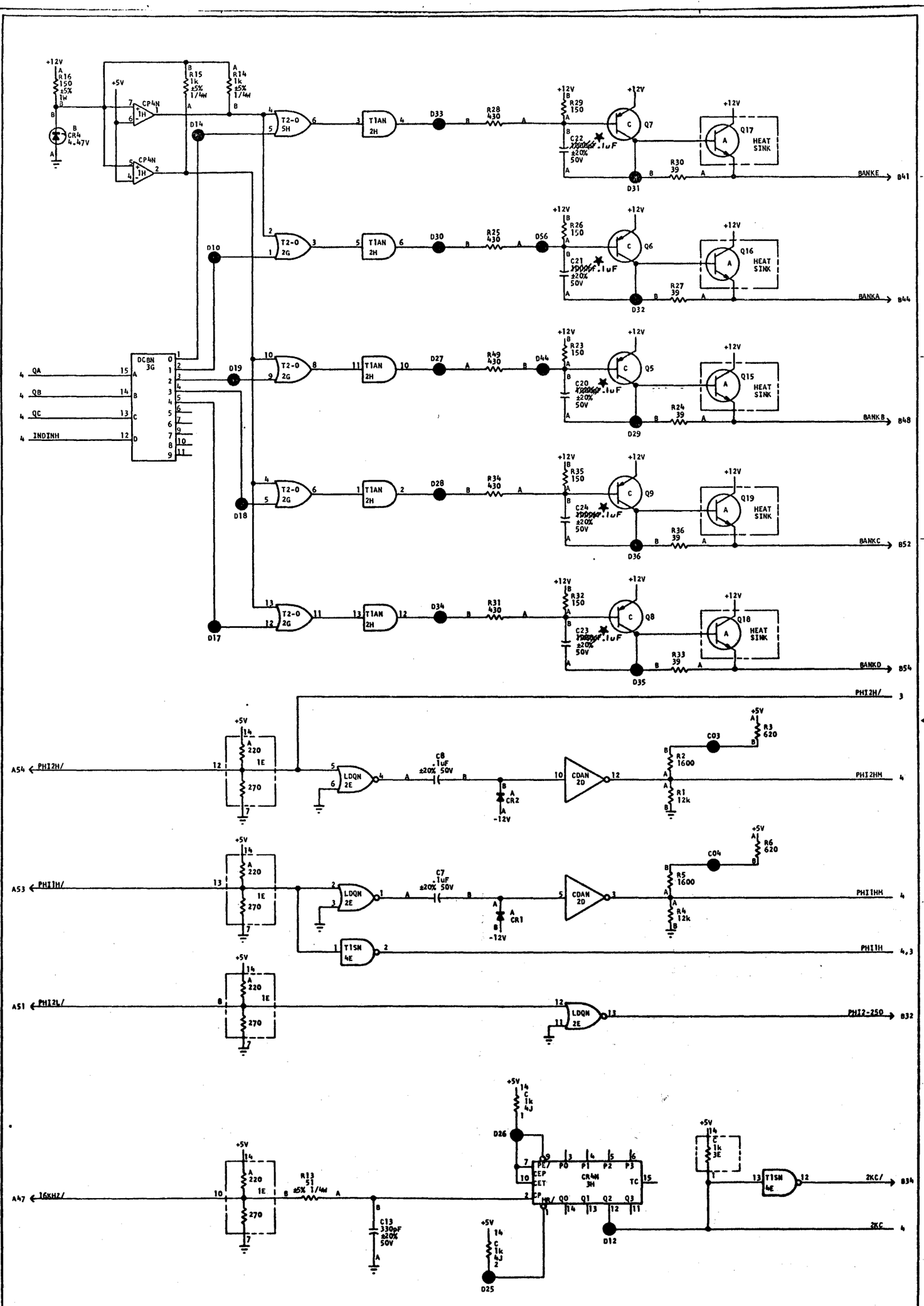
Burroughs Corporation	TITLE	SCHEMATIC, BOARD, KSI CONTROLLER	
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	SYSTEM		DWG. NO. 2770 6845
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	DRAWN J. MAISEL 7-9-79	CHECKED	REV LETTER B — PAGE 3 OF 5
	APPROVED	RELEASED	

DWG. NO. 2770 6845 PAGE 3 OF 5



Burroughs Corporation	TITLE: SCHEMATIC, BOARD, KSI CONTROLLER
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA	SYSTEM
	DRAWN: E. KARAS 7-30-79
	CHECKED
	APPROVED
	RELEASED
	DWG. NO. 2770 6845
	REV LETTER: B
	PAGE 4 OF 5

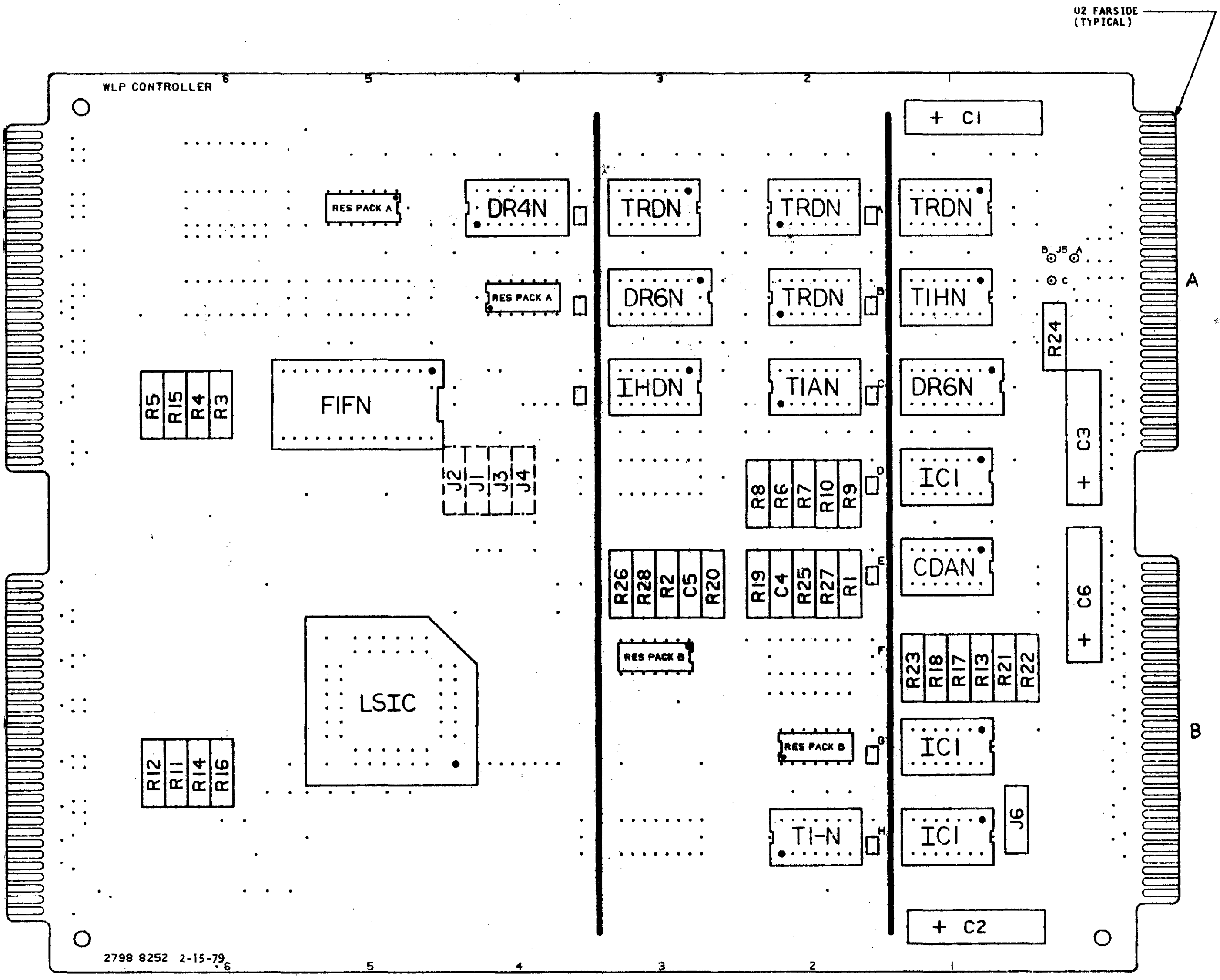
DWG. NO. 2770 6845 PAGE 4 OF 5



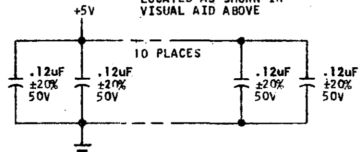
DWG. NO. 2770 6845
PAGE 5 OF 5

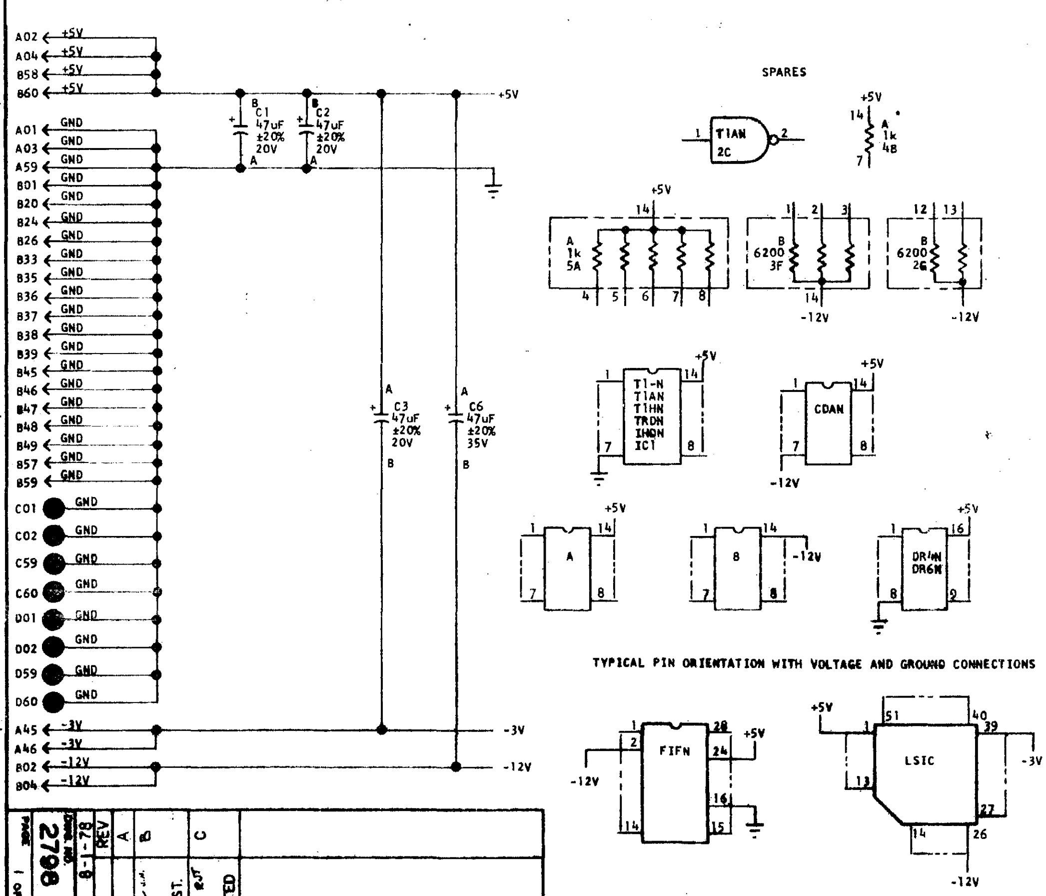
Burroughs Corporation SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U. S. AMERICA	TITLE: SCHEMATIC, BOARD, KSI CONTROLLER		
	SYSTEM		DWG. NO. 2770 6845
	DRAWN: J. MAISEL 7-9-79	CHECKED	
	APPROVED	RELEASED	REV LETTER: B — PAGE: 5 of 5

PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.



NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT





NOTES:

1. FOR ASSEMBLY SEE 2798 8252 ER DATE 2-15-79
   FOR FINAL ASSEMBLY SEE 2798 8245(PL)
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'s		RESISTOR PKG'S	
IC1	1269 6860	A	2108 4827
TI-N	1447 3532	B	2571 0252
DR6N	1449 1260		
DR4N	1449 1278		
TIHN	1479 7971		
IHDN	1674 4963		
CDAN	1846 5229		
FIFN	2477 9555		
TRDN	2571 0104		
TIAN	2600 1669		
LSIC	2571 1839		

4. FOR USE WITH 30/50 PRINTER, INSTALL SPRING CLIP IN J5 PINS B & C AND MODIFY PWB FOR 12 CHANNEL OPERATION. FOR USE WITH ALL OTHER PRINTERS, INSTALL SPRING CLIP IN J5 PINS A & B.
5. FOR 2 CHANNEL OPERATION, REMOVE JUMPERS AT J2 & J3. FOR 12 CHANNEL OPERATION REMOVE JUMPERS AT J1 & J4.

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/4W
ALL RESISTOR PKG RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W

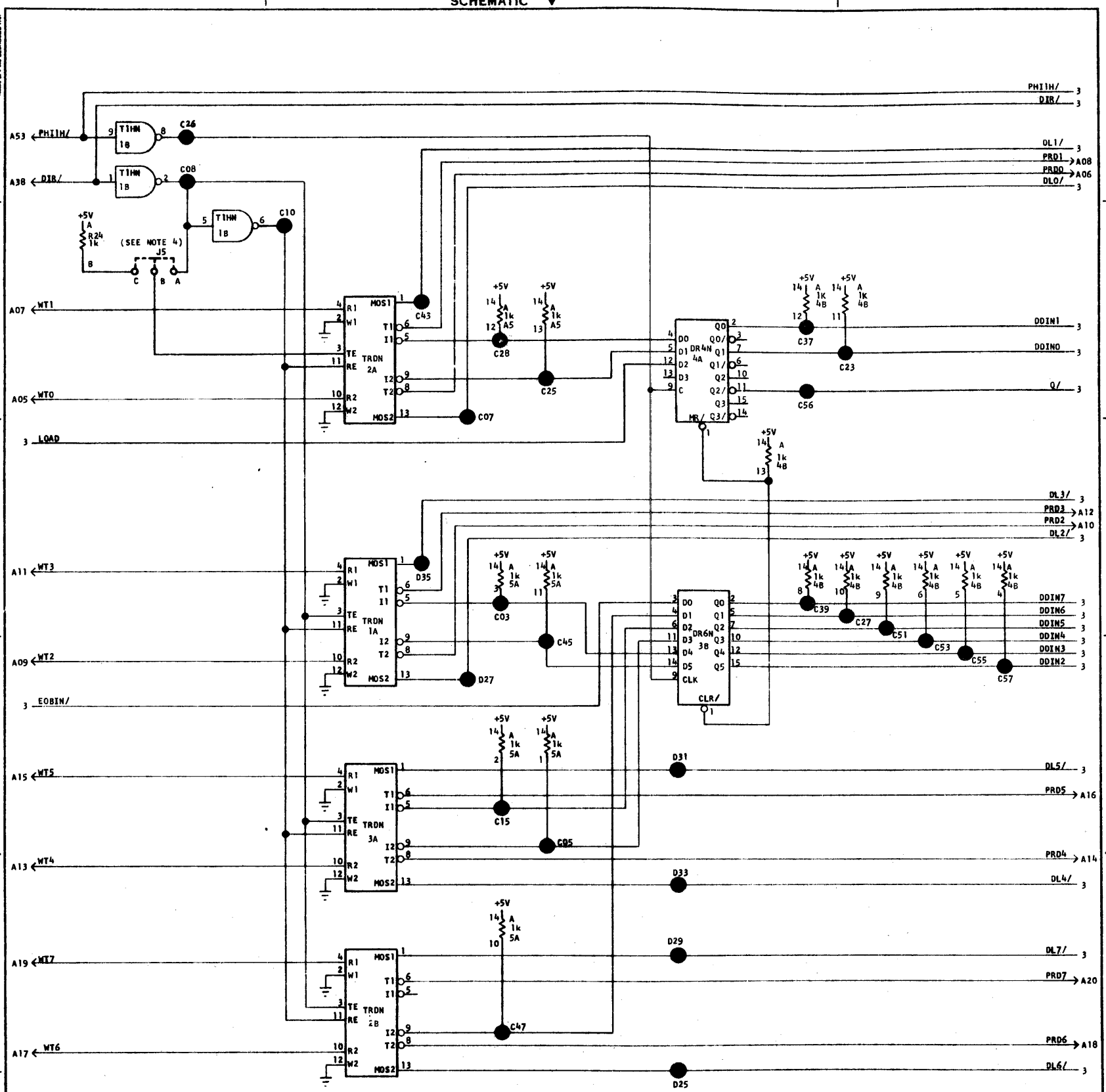
REV		
RELEASED	8-1-78	
A	ER DATE ER 62273	
B	ECN 62523 1-17-79 SEE REWORK INST.	
C	ECN 62524 2-15-79 PAGE 1 AFFECTED	

PAGE 1 of 3 DWG. NO. 2798 8278

C.C. 2-9520

Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT U.S. AMERICA

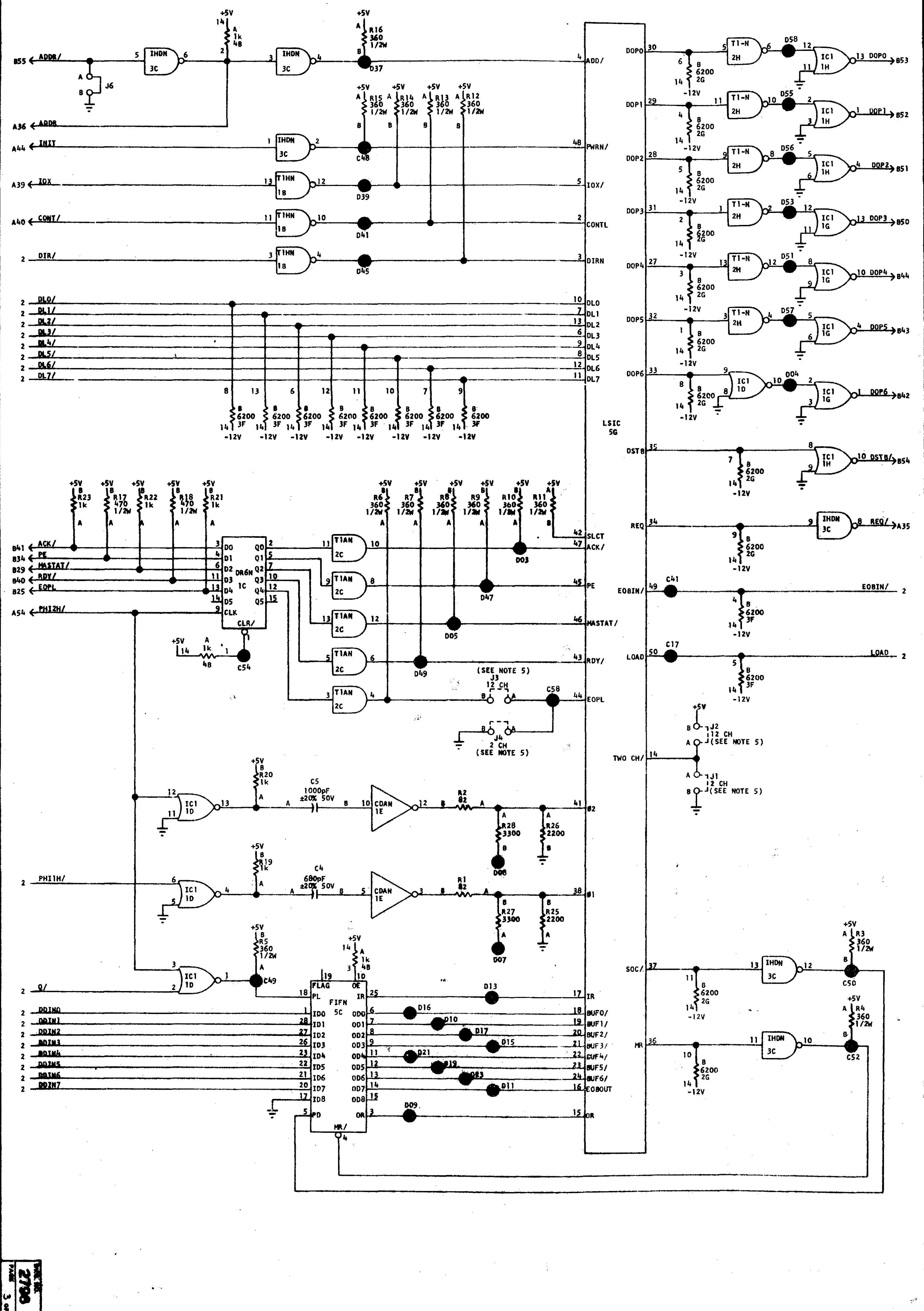
TITLE	SCHEMATIC, BOARD, WLP CONTROLLER
SYSTEM	
DRAWN	C. BERNDT 1-25-78
CHECKED	R. ALLEN 6-9-78
APPROVED	8-5-78
RELEASED	8-1-78
REV LETTER	C
PAGE	1 OF 3
DWG. NO.	2798 8278



TITLE: SCHEMATIC, BOARD, WLP CONTROLLER			DWG. NO. 2798 8278
SYSTEM			
DRAWN C. BERNDT 1-25-78	CHECKED		
APPROVED	RELEASED 8-1-78	REV LETTER C	PAGE 2 OF 3

SCHEMATIC

INPUT | OUTPUT

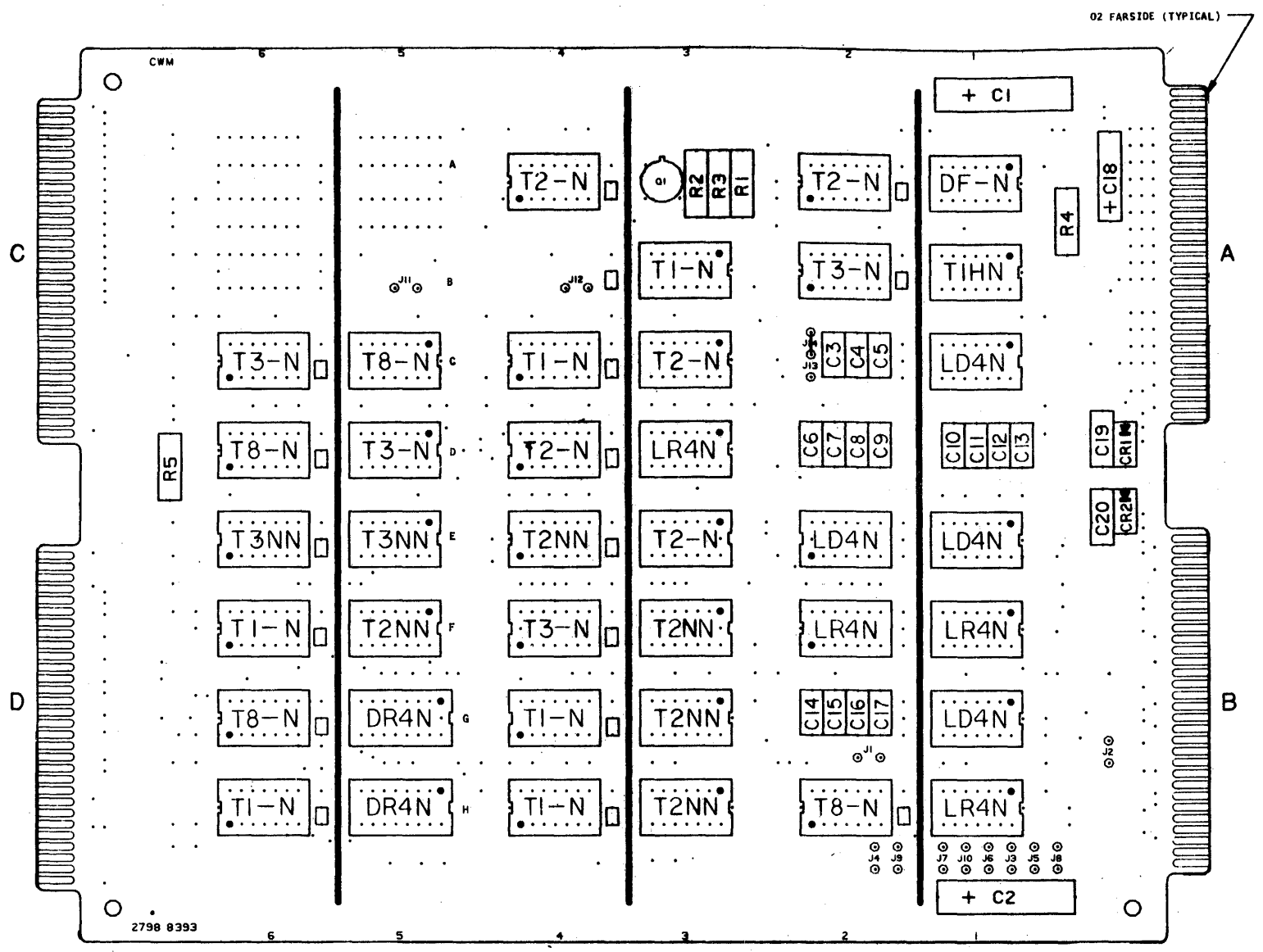


Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT

TITLE	SCHEMATIC, BOARD, WLP CONTROLLER
SYSTEM	
DRAWN	C. BERNDT 1-25-78
CHECKED	6-9-78
APPROVED	
RELEASED	8-1-78
REV LETTER	C
DWG. NO.	2798 8278
PAGE	3 OF 3

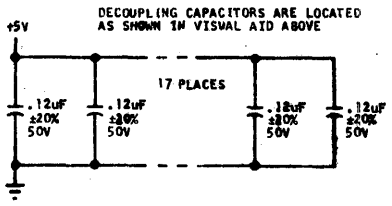
DWG. NO. 2798 8278
PAGE 3 of 3

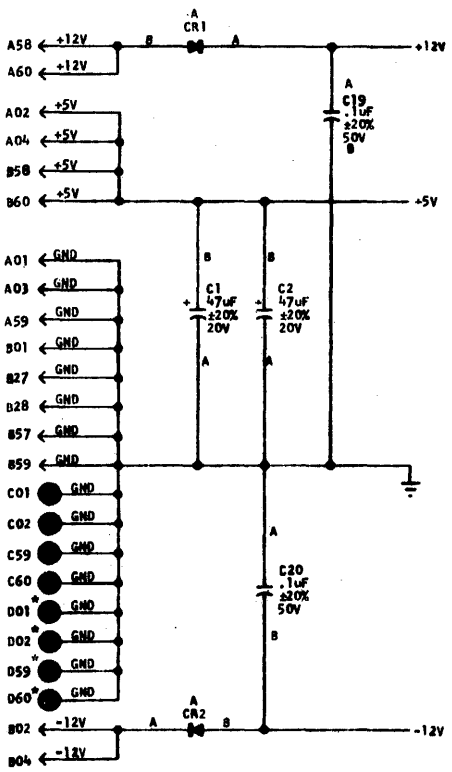
INPUT — SCHEMATIC — OUTPUT



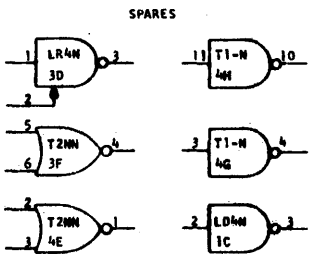
NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT

DECOUPLING CAPACITORS ARE LOCATED AS SHOWN IN VISUAL AID ABOVE





SPARES



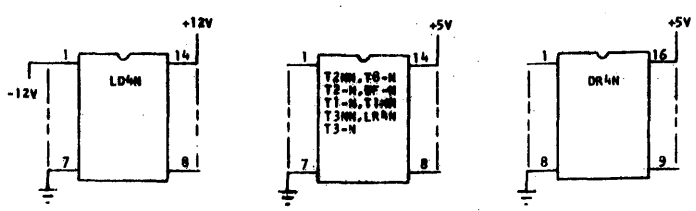
NOTES:
1. FOR ASSEMBLY SEE 2798 8393 REV D
2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE
3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S	I.C.'S	DIODE
T2NN - 2600 4911	DF-N - 1447 3607	A - 1471 4661
T2-N - 1447 3516	DR4N - 1449 1278	
T1-N - 1447 3532	T1HN - 1479 7971	
T3NN - 2600 4929	LD4N - 1534 9616	TRANSISTOR
T3-N - 1447 3540	LR4N - 2470 7044	A - 1471 4828
T8-N - 1447 3573		

4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.
5. IF DATA SET DOES NOT SUPPLY "DATA SET READY" SIGNAL ADD JUMPER "J1".
6. ON CONCATENATED SYSTEM WITH TC500, ADD JUMPER "J2" IF ANY TC500 IS POSITIONED DOWNSTREAM.
7. IF DATA SET DOES NOT HAVE "AUTO ANSWER" CAPABILITY ADD JUMPER "J3".
8. JUMPER "J14" TO BE REMOVED AND JUMPER "J13" ADDED IF DATA SET USES SELECT TRANSMIT FREQUENCY SIGNAL.
9. IF THERE IS NO OTHER TERMINAL DOWNSTREAM ADD JUMPER J4, J5, J6, J7, J8, J9 & J10.
10. FOR CERTAIN LOW SPEED DATA SETS ADD JUMPER J11 AND J12

REGARDING NOTES 5 THRU 10 REFER TO INSTL. INSTRUCTIONS

UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W



TYPICAL PIN ORIENTATION WITH VOLTAGE AND GROUND CONNECTIONS

C.C. 2-9520

RELEASED 8-1-78	REV A	B	C	D
ER DATE	ER 62245	ECN 62517 1-16-79 SEE REWORK INST.	ECN 62518 2-26-79 PAGE 1 AFFECTED	ECN 62683 PAGES 1 & 3 AFFECTED

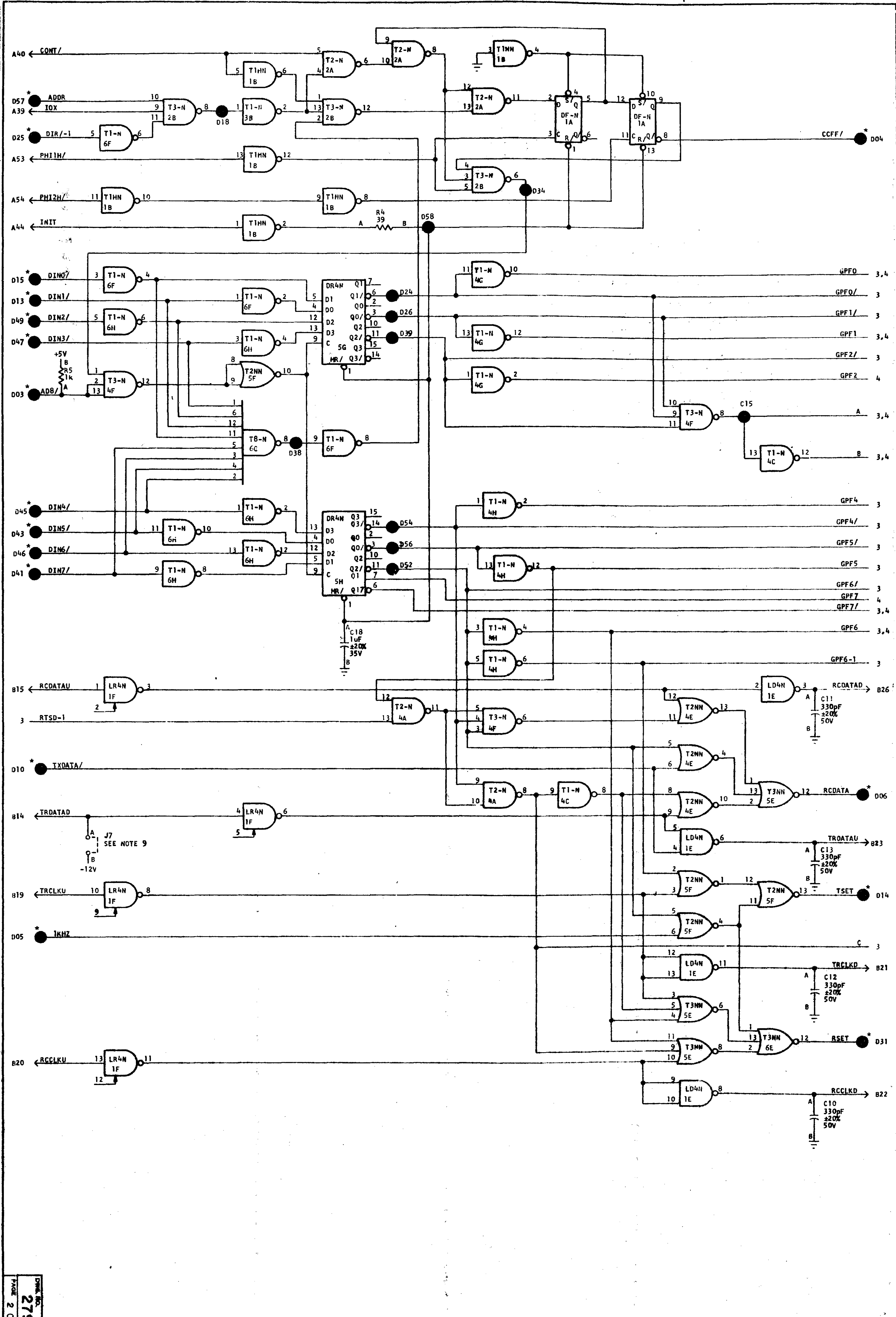
DWG NO. 2798 8401 REV D SHEET 1 OF 4

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA

TITLE	SCHEMATIC, BOARD, CWM		
SYSTEM			DWG. NO. 2798 8401
DRAWN E. KARAS 8-2-78	CHECKED 9-5-78		
APPROVED	RELEASED 8-1-78	REV LETTER D	PAGE 1 of 4

FORM PLY 47 FR

INPUT SCHEMATIC OUTPUT



DWG. NO. 2798 8401
PAGE 2 OF 4

Burroughs Corporation

SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170

PLYMOUTH PLANT
U.S. AMERICA

PROPRIETARY TO BURROUGHS CORP. — NOT TO BE REPRODUCED, NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

TITLE	SCHEMATIC, BOARD, CWM		
SYSTEM			DWG. NO. 2798 8401
DRAWN E. KARAS 7-12-78	CHECKED		
APPROVED	RELEASED 8-1-78	REV LETTER D	PAGE 2 of 4

B31 ← STFD-RATED — J8 SEE NOTE 9 (A / B / -12V) — LR4N 3D — T1-N 4C — STFD-RATED 4; STFD-1 4

2 B — T2-N 4D — LD4N 1C — C3 330pF ±20% 50V

2 A — T2-N 4D

D21 * STF/ — J11 SEE NOTE 10 — T1-N 4C — J12 SEE NOTE 10 — J13 SEE NOTE 8 / J14 — STFU-RATEU → B37

4 RATEU — STF/ 4

D27 * DTROY/ — T1-N 4H — T2-N 4D — LD4N 1G — DTRU → B35

B32 ← DTRD — J5 SEE NOTE 9 (A / B / -12V) — LR4N 1H — C17 330pF ±20% 50V — J1 SEE NOTE 5

2 GPF6/ — T2NN 3H — T2NN 3H — DSR/ * D07

2 GPF6-1 — T2NN 3G

B06 ← DSRU — LR4N 2F — LD4N 2E — DSRD → B09 — C8 330pF ±20% 50V

B07 ← RCARU — LR4N 2F — LD4N 2E — RCARD → B11 — C6 330pF ±20% 50V

T2NN 3F — T3NN 6E — RCAR/ * D08

D12 * RTS-1/ — T2NN 3H

2 GPF4 — T2NN 3H

2 GPF5 — T2NN 3H — C57 — T3NN 6E

T2-N 3E — T1-N 3B — R3 390 — +5V — R2 1k — Q1 — R1 10 — RCART → B25

B33 ← REQSNDD — J6 SEE NOTE 9 (A / B / -12V) — LR4N 3D — T1-N 4C — RTSD-1 2,4

2 GPF1/ — T2-N 2A — T2-N 4D — LD4N 2E — REQSNDU → B38 — J2 SEE NOTE 6 — C7 330pF ±20% 50V

T1-N 4G

B13 ← CLRSNDU

2 GPF1 — T2NN 3G — T2NN 3F — T2NN 3G — T2NN 3F — CLRSND/ * D33

2 GPF0 — T2NN 3G

2 C

LR4N 2F — T2-N 3E — T2-N 3E — LD4N 2E — CLRSNDD → B10 — C9 330pF ±20% 50V

2 GPF2/ — T8-N 2H

2 GPF5/

2 GPF0/

2 GPF4/

2 GPF7/ — T8-N 3E — GPFSTATE/ 4

2 GPF6

DWG. NO. 2798 8401 PAGE 3 OF 4

Datapoint Corporation — SMALL SYSTEMS GROUP, SAN ANTONIO, TEXAS — PLYMOUTH PLANT, U.S.A.

TYPE SCHEMATIC, BOARD, CMM

SYSTEM

DRAWN E.KARAS 7-12-78 — CHECKED — APPROVED — RELEASED 8-1-78

DWG. NO. 2798 8401 — REV LETTER D — PAGE 3 OF 4

INPUT

SCHEMATIC

OUTPUT

B45 ← DMD — J9 SEE NOTE 9 — A / B / -12V

D35 * DM/

2 A

D37 * ORIG/

B43 ← ORIGD — J10 SEE NOTE 9 — A / B / -12V

2 GPF1

2 GPF7

B05 ← SLSTBYD — J4 SEE NOTE 9 — A / B / -12V

D55 * SSB

D40 * DSRATE/

2 B

3 STFD-RATED

2 GPF0

3 STFD-1

2 GPF2

3 STF/

2 GPF6

3 RTSD-1

2 GPF7/

3 GPFSTATE/

B34 ← RINGU — J3 SEE NOTE 7 — A / B / -12V

LR4N 1H

LR4N 2F

LR4N 3D

T1-N 6F

T1-N 3B

T1-N 4C

T2-N 4A

T2-N 3C

T2-N 3C

T8-N 5C

T3-N 5B

LD4N 1G

LD4N 1C

T3-N 6C

T3-N 6C

T8-N 6D

T3-N 5D

T3-N 5D

T1-N 3B

V1-N 4G

LD4N 1G

CS1

DMU → B51 — C16 330pF ±20% 50V

ORIGU → B52 — C14 330pF ±20% 50V

SLSTBYU → B17 — C5 330pF ±20% 50V

RATEU → 3 — C4 330pF ±20% 50V

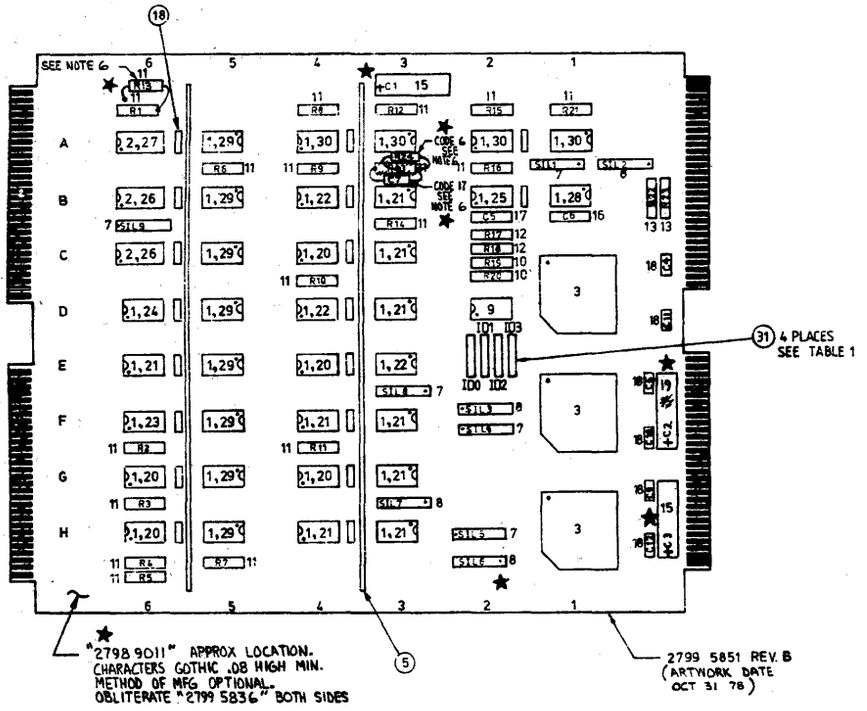
RING/ * D29

RINGD → B36 — C15 330pF ±20% 50V

Burroughs Corporation — SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S.A.	TITLE: SCHEMATIC, BOARD, CNH
	SYSTEM
	DRAWN: L. KARAS 7-12-78 — CHECKED: [illegible] — APPROVED: — RELEASED: 8-1-78
	DWG. NO.: 2798 8401 — REV LETTER: D — PAGE: 4 OF 4

DWG. NO. 2798 8401 PAGE 4 OF 4

DWG No 2798 9011 REV A
SHEET No 1 OF 3
RELEASED EDA 62957 A



CODE	DESCRIPTION	PART NO.	REQD	
1	SOCKET 14 PIN	2603 8281	33	
2	SOCKET 16 PIN	2603 8299	3	
3	SOCKET 51 PIN	1532 8123	3	
4				
5	BUSBAR	2848 9805	2	
6	RES. 100Ω ±5% 1/4W	1268 1078	1	★
7	RES. PKG. S.I.L. 1K	2571 9915	5	
8	RES. PKG. S.I.L. 6.2K	2571 9923	4	
9	RES. PKG. D.I.L. 6.2K	2571 0252	1	
10	RES. 82Ω ±5% 1/2 W.	1268 2068	2	
11	RES. 1KΩ ±5% 1/2 W.	1268 2324	17	
12	RES. 2.2KΩ ±5% 1/2 W.	1268 2407	2	
13	RES. 3.3KΩ ±5% 1/2 W.	1268 2449	2	
14				
15	CAPACITOR 47µf 20V 35V	1267 9262	#2	★
16	CAPACITOR 680 Pf	2300 5556	1	
17	CAPACITOR 1600 Pf	2300 5572	#2	★
18	CAPACITOR 0.1µf	2848 3956	24	
19	CAPACITOR 47µf 35V	1267 9270	1	★
20	I.C. SN 7400	1447 3516	5	
21	I.C. SN 7404	1447 3532	9	
22	I.C. SN 7410	1447 3540	3	
23	I.C. SN 7474	1447 3607	1	
24	I.C. SN 7486	1447 3698	1	
25	I.C. SN 74128	1269 6860	1	
26	I.C. SN 74157	1447 3797	2	
27	I.C. SN 74161	1447 3771	1	
28	I.C. MH0026	1846 5229	1	
29	I.C. B1000	2571 5418	8	
30	I.C. TX-RX 8T30	2571 0104	4	

CODE	DESCRIPTION	PART NO.	REQD
31	WIRE LINK	1377 1845	4
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

TABLE 1

DISK	CONTROLLERS REQ'D		LINKS ID3	ID2	ID1	IDO
9480-11	1		OUT	OUT	IN	OUT
9480-12	1		IN	OUT	IN	OUT
9480-21	1		OUT	IN	IN	OUT
9480-21	1		IN	IN	IN	OUT
9481-11	1		OUT	IN	OUT	OUT
9481-12	1		IN	IN	OUT	OUT
9489-1	1		OUT	OUT	OUT	OUT
9489-2	1		IN	OUT	OUT	OUT
9493-9	1		OUT	IN	IN	IN
9493-18	1		IN	IN	IN	IN
9493-28	2	CONT. 'A'	IN	IN	IN	IN
		CONT. 'B'	OUT	IN	IN	IN
9493-37	2	BOTH CONT.	IN	IN	IN	IN

SEE NOTE 5.

NOTE:-
5. CONTROLLER 'A' CONNECTED TO SPINDLE WITH 2 DISKS.
" 'B' " " " " 1 DISK
★ 6. REMOVE "R13" (CODE 11) LOCATED BETWEEN IC POS 3A & IC POS 3B. RELOCATE R13 (AS SHOWN.)
SOLDER ONE END OF R13 TO +5V LEAD OF "R1"
SOLDER THE OTHER END TO VIA HOLE FOR TAB C8
SOLDER "C7" (CODE 17) TO VIA HOLES WHERE R13 WAS REMOVED
ADD "R24" (CODE 6) AS SHOWN
SOLDER ONE END TO VIA HOLE WITH LEAD OF "C7"
SOLDER THE OTHER END TO VIA HOLE FOR TAB A44 ★
★ 7. (★) INDICATES MODIFICATION
★ 8. USE 1142 8075 (ROUTE WIRE AS SHOWN WITH WIRE AS TAUT AS POSSIBLE WITH NO STRAIN ON WIRE OR CONNECTION)
FROM IC POS 3B PIN 7 TO VIA HOLE
FROM IC POS 3B PIN 9 TO VIA HOLE
FROM IC POS 2B PIN 9 TO IC POS 2B PIN 7
FROM LSI 1D PIN 39 TO C4
FROM VIA HOLE FOR SIL2 PIN 1 TO VIA HOLE FOR IC POS 1B PIN 7

NOTES:
1 FOR SCHEMATIC SEE ~~2798 5837~~ 2798 9029 REV A
2 MAX HEIGHT OF I C PACKAGES IN SOCKET .450 FROM CARD SURFACE
3 INSERT I C PACKAGES IN SOCKETS AFTER FLOW SOLDER
4 ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

UNLESS OTHERWISE SPECIFIED
MAX HEIGHT OF COMPONENTS .450 FROM CARD SURFACE
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F
LEAD PROTRUSION FROM CARD SURFACE .05 MAX

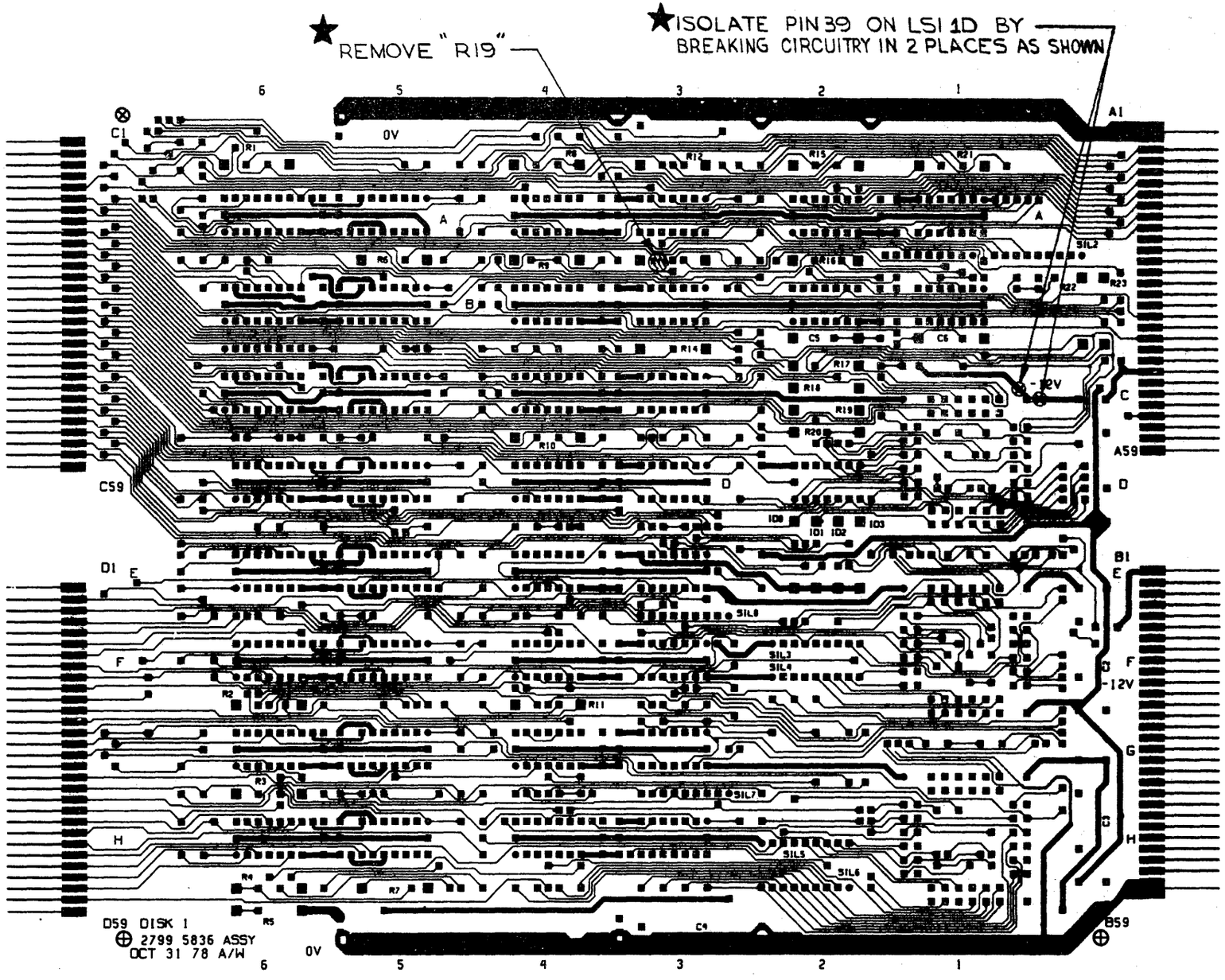
DO NOT SCALE

★ MFG REF: 2799 5836

DRAWN	JK	10-16-79
CHECKED	REG	10-18-79
ENG APPD	SZCZUR	9-24-79
MFG APPD		24 Oct 79

2-7045
Burroughs
BOARD ASSEMBLY, DISK 1
1 A1 DWG No 2798 9011 SHEET No 1 OF 3 REV A
EDA 62957

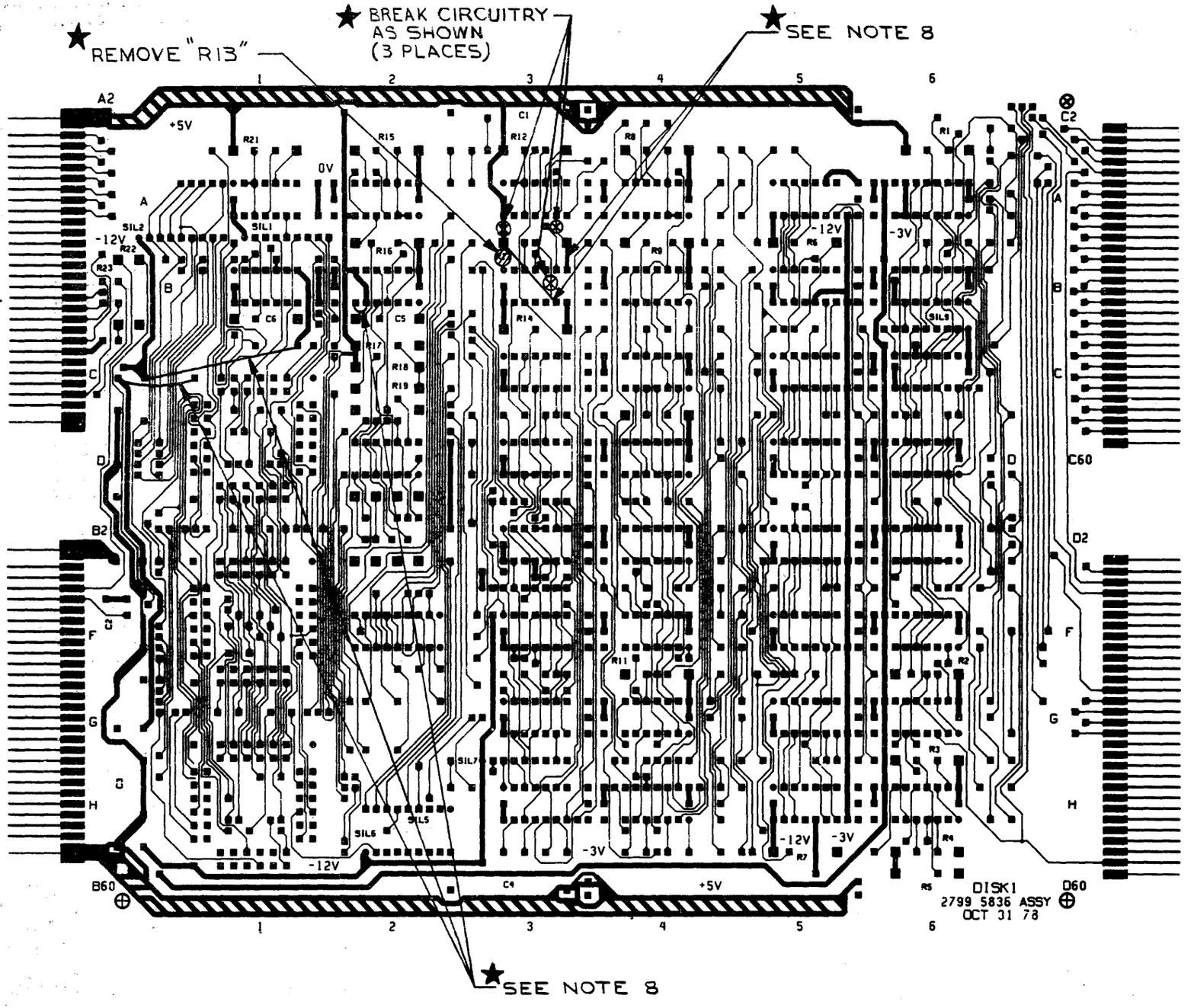
DWG NO.	SHEET 2 OF 3	RELEASED	EDA62957	A
2798 9011				



V'D REG 10-18-79

BOARD ASSEMBLY, DISK 1	
DWG NO. 2798 9011	REV A
SHEET 2 OF 3	

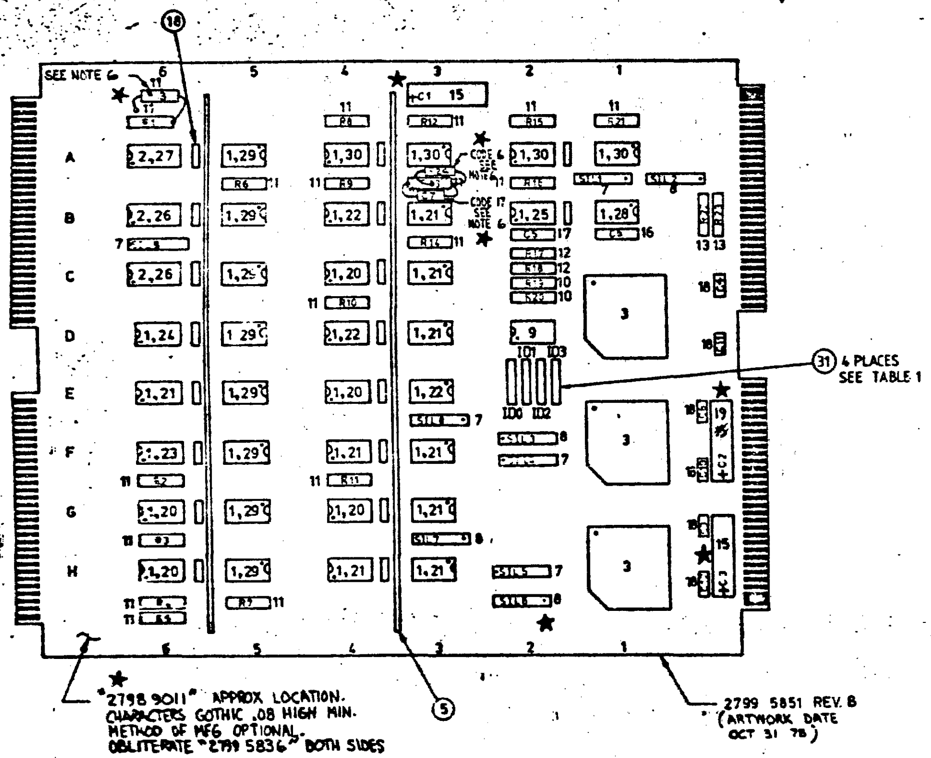
DWG NO.	SHEET 3 OF 3	RELEASED	A
2798 9011		EDA62957	



BOARD ASSEMBLY, DISK 1	
DWG NO. 2798 9011	REV A
SHEET 3 OF 3	

W'D REG 10-18-79

DWG NO. 2798 9011 REV A
SHEET NO. 1 OF 3
RELEASED EDA 62957 A



CODE	DESCRIPTION	PART NO.	REQD	
1	SOCKET 14 PIN	2603 8281	33	
2	SOCKET 16 PIN	2603 8299	3	
3	SOCKET 51 PIN	1532 8123	3	
4				
5	BUSBAR	2848 9805	2	
6	RES. 100Ω ±5% 1/4W	1268 1078	1	★
7	RES. PKG. S.I.L. 1K	2571 9915	5	
8	RES. PKG. S.I.L. 6.2K	2571 9923	4	
9	RES. PKG. D.I.L. 6.2K	2571 0252	1	
10	RES. 82Ω ±5% 1/2 W.	1268 2068	2	
11	RES. 1KΩ ±5% 1/2 W.	1268 2324	17	
12	RES. 2.2KΩ ±5% 1/2 W.	1268 2407	2	
13	RES. 3.3KΩ ±5% 1/2 W.	1268 2449	2	
14				
15	CAPACITOR 47μf ~~35V~~ 20V	1267 9262	~~1~~ 2	★
16	CAPACITOR 680 Pf	2300 5556	1	
17	CAPACITOR 1000 Pf	2300 5572	~~1~~ 2	★
18	CAPACITOR 0.1μf	2848 3956	24	
19	CAPACITOR 47μf 35V	1267 9270	1	★
20	I.C. SN 7400	1447 3516	5	
21	I.C. SN 7404	1447 3532	9	
22	I.C. SN 7410	1447 3540	3	
23	I.C. SN 7474	1447 3607	1	
24	I.C. SN 7486	1447 3698	1	
25	I.C. SN 74128	1269 6860	1	
26	I.C. SN 74157	1447 3797	2	
27	I.C. SN 74161	1447 3771	1	
28	I.C. MH0026	1846 5229	1	
29	I.C. 81000	2571 5418	8	
30	I.C. TX-RX 8T30	~~[illegible]~~ 2472 2548	4	★

CODE	DESCRIPTION	PART NO.	REQD
31	WIRE LINK	1377 1845	4
32			
33			
34			
35			
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58			
59			
60			

TABLE 1

DISK	CONTROLLERS REQ'D		LINKS ID3	ID2	ID1	ID0
9480-11	1		OUT	OUT	IN	OUT
9480-12	1		IN	OUT	IN	OUT
9480-21	1		OUT	IN	IN	OUT
9480-21	1		IN	IN	IN	OUT
9481-11	1		OUT	IN	OUT	OUT
9481-12	1		IN	IN	OUT	OUT
9489-1	1		OUT	OUT	OUT	OUT
9489-2	1		IN	OUT	OUT	OUT
9493-9	1		OUT	IN	IN	IN
9493-18	1		IN	IN	IN	IN
9493-28	2	CONT. A	IN	IN	IN	IN
		CONT. B	OUT	IN	IN	IN
9493-37	2	BOTH CONT.	IN	IN	IN	IN

SEE NOTE 5.

NOTE:-

5. CONTROLLER 'A' CONNECTED TO SPINDLE WITH 2 DISKS.
   " 'B' " " " 1 DISK.

★ 6. REMOVE "R13" (CODE 11) LOCATED BETWEEN IC POS 3A & IC POS 3B. RELOCATE R13 (AS SHOWN.) ★
   SOLDER ONE END OF R13 TO +5V LEAD OF "R1"
   SOLDER THE OTHER END TO VIA HOLE FOR TAB C8
   SOLDER "CT" (CODE 17) TO VIA HOLES WHERE R13 WAS REMOVED
   ADD "R24" (CODE 6) AS SHOWN
   SOLDER ONE END TO VIA HOLE WITH LEAD OF "CT"
   ★ SOLDER THE OTHER END TO VIA HOLE FOR TAB A44 ★

★ 7. (★) INDICATES MODIFICATION

★ 8. USE 1142 8075 (ROUTE WIRE AS SHOWN WITH WIRE AS TAUT AS POSSIBLE WITH NO STRAIN ON WIRE OR CONNECTION)
   FROM IC POS 3B PIN 7 TO VIA HOLE
   FROM IC POS 3B PIN 9 TO VIA HOLE
   FROM IC POS 2B PIN 6 TO IC POS 2B PIN 7
   FROM LSI 1D PIN 39 TO C4
   FROM VIA HOLE FOR SIL2 PIN 1 TO VIA HOLE FOR IC POS 1B PIN 7

NOTES:

1. FOR SCHEMATIC SEE ~~2799 5869~~ ★ 2798 9029 REV A
2. MAX HEIGHT OF I C PACKAGES IN SOCKET .450 FROM CARD SURFACE
3. INSERT I C PACKAGES IN SOCKETS AFTER FLOW SOLDER
4. ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

UNLESS OTHERWISE SPECIFIED

MAX HEIGHT OF COMPONENTS .450 FROM CARD SURFACE
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F
LEAD PROTRUSION FROM CARD SURFACE .05 MAX

EDA 62932 JRL 1-16-80

PLYMOUTH ✓JK
ENGINEERING DEVIATION AUTHORIZATION TV
PROJECT 56702
GROUP 2100
DATE 12-15-79
STAMP PWB ASSY WITH "EDA 12-15-79"
SHEET 1 AFFECTED

★ MFG REF: 2799 5836

DO NOT SCALE

GEN QUAL SPECS 1181 5547 APPL

DRAWN	JK	10-16-79
CHECKED	REG	10-18-79
	SZCZUR	9-24-79
		26 Oct 79

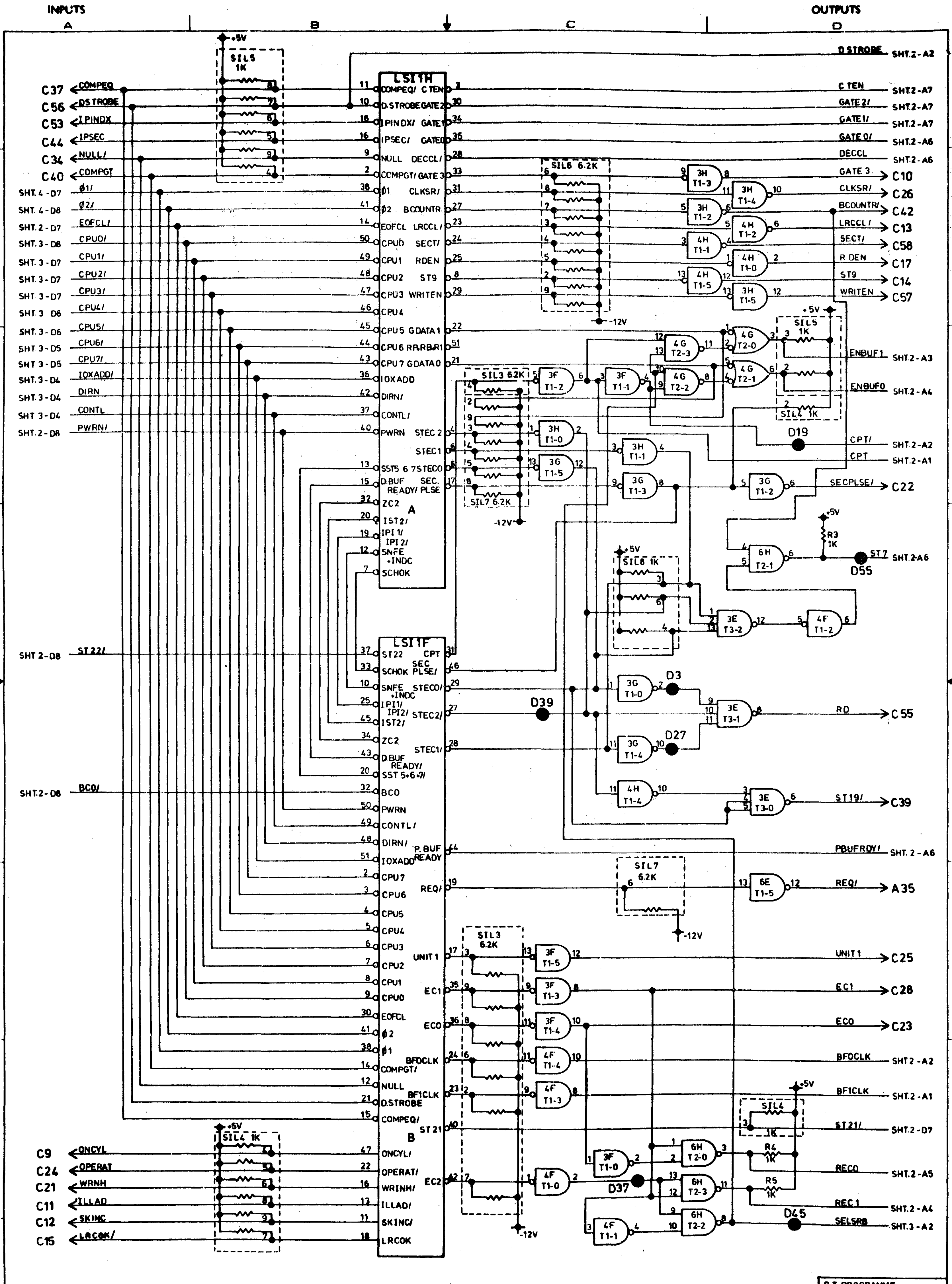
2-7045

Burroughs

BOARD ASSEMBLY, DISK 1

1 A1 2798 9011 SHEET 1 OF 3 REV A

D SIZE



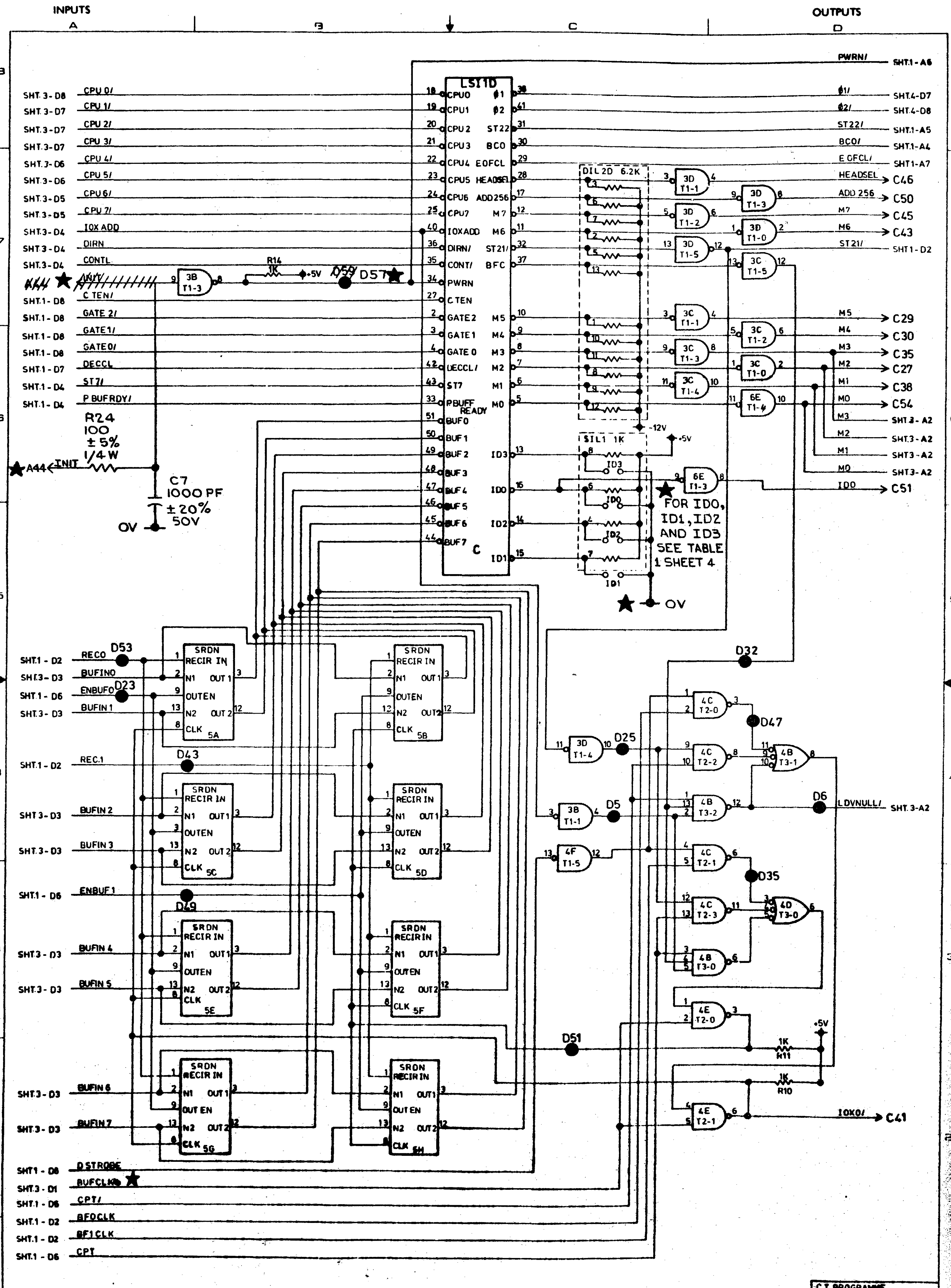
INPUTS
OUTPUTS
LSI1H
LSI1F
SIL5 1K
SIL6 6.2K
SIL3 6.2K
SIL7 6.2K
SIL8 1K
SIL4 1K
C37 COMPEQ
C56 DSTROBE
C53 IPINDX
C44 IPSEC
C34 NULL/
C40 COMPGT
D STROBE SHT.2-A2
C TEN SHT.2-A7
GATE 2/ SHT.2-A7
GATE 1/ SHT.2-A7
GATE 0/ SHT.2-A6
DECCL SHT.2-A6
GATE 3 C10
CLKSR/ C26
BCOUNTR/ C42
LRCCL/ C13
SECT/ C58
R DEN C17
ST9 C14
WRITEN C57
ENBUF1 SHT.2-A3
ENBUF0 SHT.2-A4
CPT/ SHT.2-A2
CPT SHT.2-A1
SECPLSE/ C22
ST7 SHT.2-A6
RD C55
ST19/ C39
PBUFRDY/ SHT. 2-A6
REQ/ A35
UNIT1 C25
EC1 C28
EC0 C23
BFOCLK SHT2-A2
BF1CLK SHT.2-A1
ST21/ SHT.2-D7
RECO SHT.2-A5
REC1 SHT.2-A4
SELSRB SHT.3-A2
C9 ONCYL
C24 OPERAT
C21 WRNH
C11 ILLAD
C12 SKINC
C15 LRCOK

C.T. PROGRAMME

TITLE	SCHEMATIC, DISK 1.
DSGN ENGR	SZCZUR, DATE 9-24-79
DRAWN	JK, DATE 10-16-79
CHECKED	REG, DATE 10-18-79
SIZE	A1
CLASS CODE	2-9520
DRAWING NO.	2798 9029
REV	A
PAGE	1 of 4

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND U.K.

2798 9029 PAGE 1 of 4

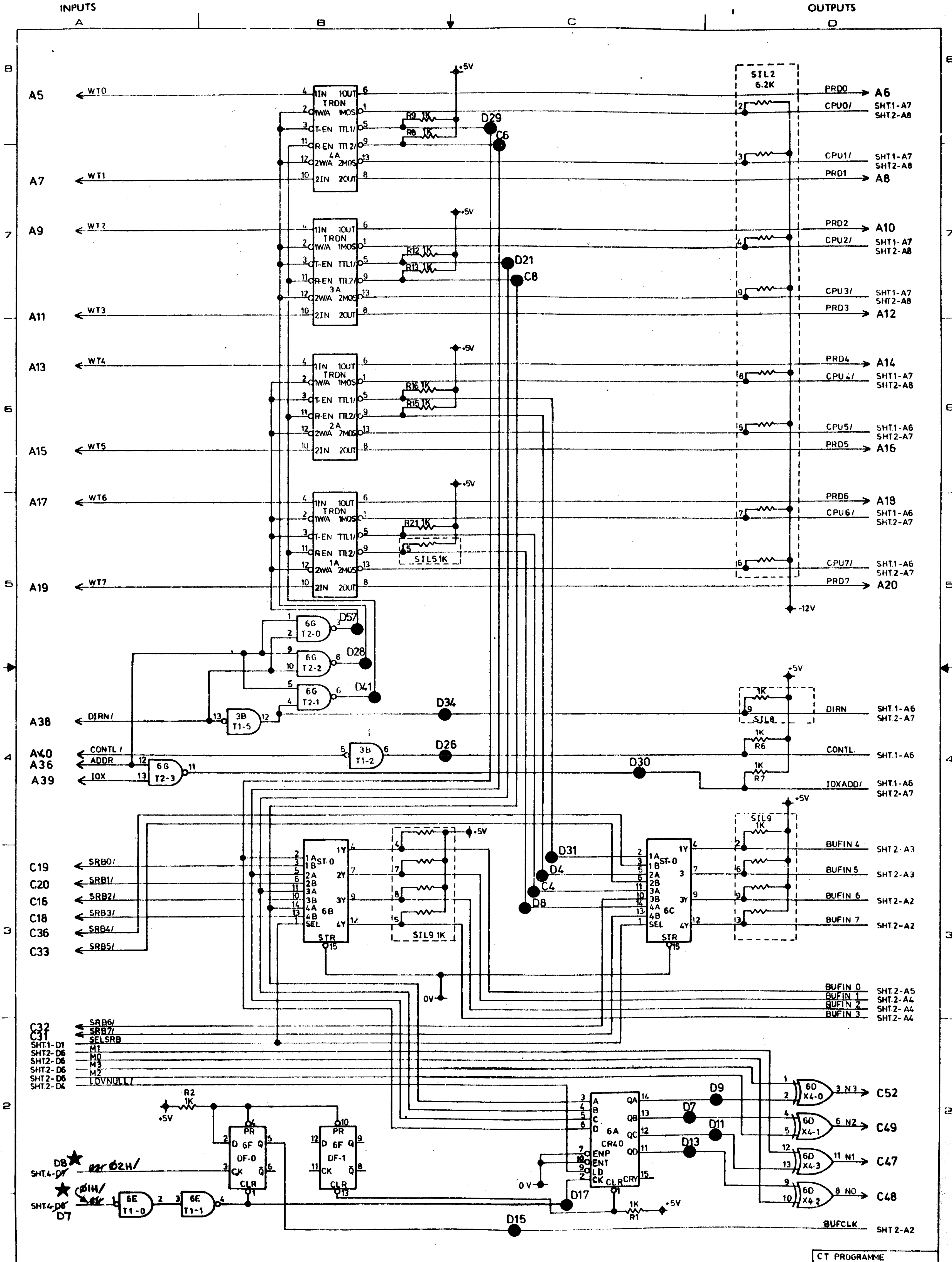

INPUTS
OUTPUTS
A
B
C
D
LS11D
CPU0
CPU1
CPU2
CPU3
CPU4
CPU5
CPU6
CPU7
IOXADD
DIRN/
CONT/
PWRN
CTEN
GATE2
GATE1
GATE0
DECCL/
ST7
PBUFF READY
BUF0
BUF1
BUF2
BUF3
BUF4
BUF5
BUF6
BUF7
ϕ1
ϕ2
ST22
BCO
EOFCL
HEADSEL
ADD256
M7
M6
ST21/
BFC
M5
M4
M3
M2
M1
M0
ID3
ID0
ID2
ID1
SHT.3-D8 CPU 0/
SHT.3-D7 CPU 1/
SHT.3-D7 CPU 2/
SHT.3-D7 CPU 3/
SHT.3-D6 CPU 4/
SHT.3-D6 CPU 5/
SHT.3-D5 CPU 6/
SHT.3-D5 CPU 7/
SHT.3-D4 IOX ADD
SHT.3-D4 DIRN
SHT.3-D4 CONTL
INIT
SHT.1-D8 C TEN/
SHT.1-D8 GATE 2/
SHT.1-D8 GATE 1/
SHT.1-D8 GATE 0/
SHT.1-D7 DECCL
SHT.1-D4 ST7/
SHT.1-D4 P BUFRDY/
R14 1K
+5V
D59
D57
R24 100 ±5% 1/4 W
A44 INIT
C7 1000 PF ±20% 50V
0V
PWRN/ SHT.1-A6
ϕ1/ SHT.4-D7
ϕ2/ SHT.4-D8
ST22/ SHT.1-A5
BCO/ SHT.1-A4
E OFCL/ SHT.1-A7
HEADSEL C46
ADD 256 C50
M7 C45
M6 C43
ST21/ SHT.1-D2
M5 C29
M4 C30
M3 C35
M2 C27
M1 C38
M0 C54
M3 SHT.3-A2
M2 SHT.3-A2
M1 SHT.3-A2
M0 SHT.3-A2
ID0 C51
DIL 2D 6.2K
SIL1 1K
-12V
FOR ID0, ID1, ID2 AND ID3 SEE TABLE 1 SHEET 4
SHT.1-D2 RECO D53
SHT.3-D3 BUFINO
SHT.1-D6 ENBUFO D23
SHT.3-D3 BUFIN 1
SHT.1-D2 REC.1 D43
SHT.3-D3 BUFIN 2
SHT.3-D3 BUFIN 3
SHT.1-D6 ENBUF 1 D49
SHT.3-D3 BUFIN 4
SHT.3-D3 BUFIN 5
SHT.3-D3 BUFIN 6
SHT.3-D3 BUFIN 7
SHT.1-D8 D STROBE
SHT.3-D1 BUFCLK
SHT.1-D6 CPT/
SHT.1-D2 BFOCLK
SHT.1-D2 BF1CLK
SHT.1-D6 CPT
SRDN RECIR IN
N1
OUT1
OUTEN
N2
OUT2
CLK
5A
5B
5C
5D
5E
5F
5G
5H
D32
D47
D25
D5
D6
D35
D51
LDVNULL/ SHT.3-A2
1K R11
1K R10
IOXO/ C41
C.T. PROGRAMME

DSGN CONTROL	TITLE	SCHEMATIC, DISK 1.	
DSGN ENGR SZCZUR	DATE 9-24-79	DRAWN JK	DATE 10-16-79
APPROVED	DATE	CHECKED REG	DATE 10-18-79
		SIZE A1	CLASS CODE 2-9520
DRAWING No. 2798 9029	REV A	2 OF 4	

EDA 62957 A

2798 9029 2 of 4

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD SCOTLAND U.K.



Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD SCOTLAND

SCHEMATIC, DISK 1

SZCZUR	9-24-79	JK	10-16-79
		REG	10-18-79
		A1	2-9520

2798 9029

REV A

3 OF 4

2798 9029

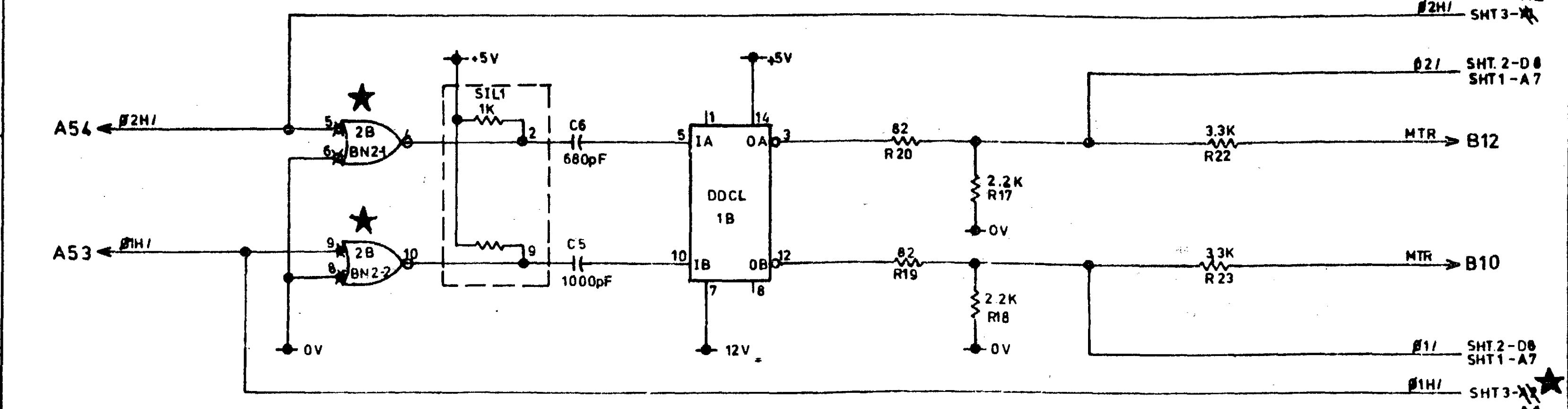
EDA 62957

A

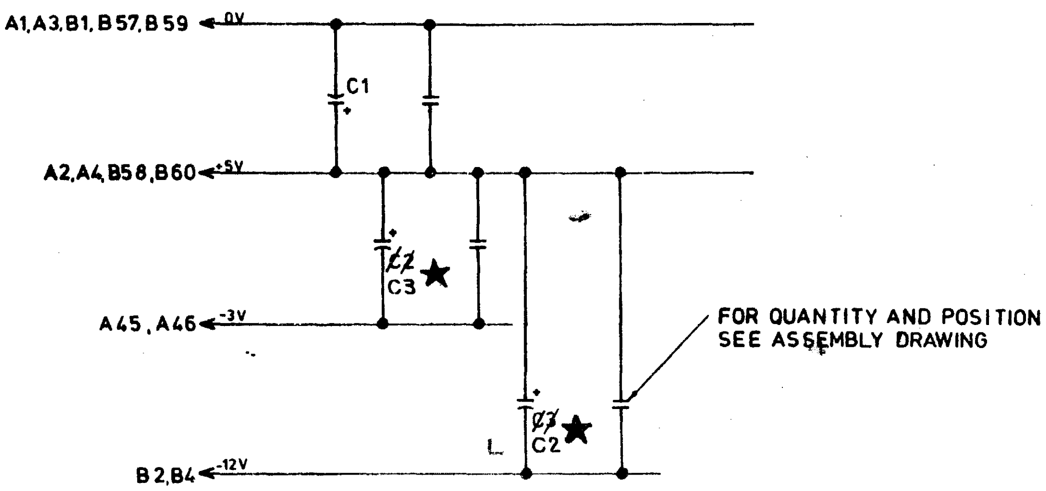
7 of

INPUTS / OUTPUTS

CLOCK DISTRIBUTION

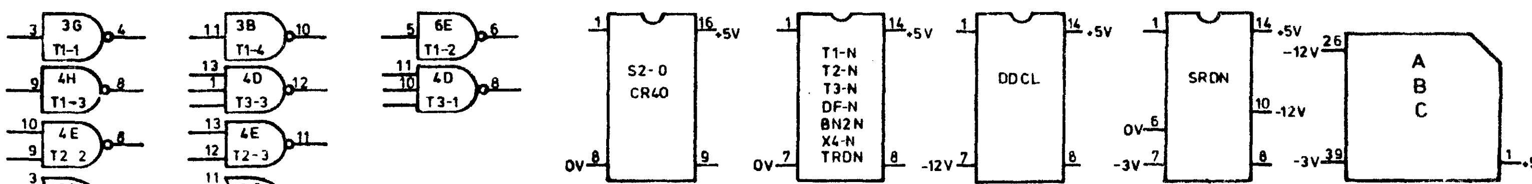


POWER DISTRIBUTION

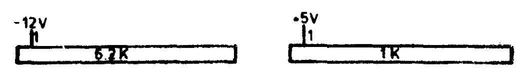


DECOUPLING CAPACITORS QUANTITY & POSITION AS IN ASSEMBLY DRAWING

SPARE GATES — IC's — LSI's



RESISTOR PACKS



NOTES:– FOR ASSEMBLY WITHOUT LSI SEE ~~2799 5536~~ 2798 9011

1. FOR L.S.I. ASSEMBLY SEE ~~2799/5544~~ 2798 9003
2. CODES USED FOR COMPONENT PART Nos ARE AS FOLLOWS:–

IC's			LSIs		RESISTOR PACKS	
T1-N	SN 7404	1447 3532	A	2574 3162	6.2K	2571 9923
T2-N	SN 7400	1447 3516	B	2574 3170	1K	2571 9915
T3-N	SN 7410	1447 3540	C	2574 3188		
DF-N	SN 7474	1447 3607				
BN2N	SN 74128	1269 6860				
S2-N	SN 74157	1447 3797				
CR4N	SN 74161	1447 3771				
X4-N	SN 7486	1447 3658				
DDCL	MH 0026	1846 5229				
SRDN	B 1000	2571 5418				
TRDN	TX/RX 8T30	2571 0104				

3. UNLESS OTHERWISE SPECIFIED RESISTANCE VALUES ARE IN OHMS
4. IDENTITY LINKS INSERTED AS SHOWN IN TABLE 1
5. CONTROLLER A CONNECTED TO SPINDLE WITH 2 DISKS
   CONTROLLER B CONNECTED TO SPINDLE WITH 1 DISK

CAPACITORS
C1, ~~C2~~, C3 47μF 1267 9262
ALL OTHERS 0.1μF 2848 3956
C2 47μF 1267 9270
C5 & C7 1000 PF 2300 5572
C6 680PF 2300 5556

TABLE 1

DISC	CONTROLLERS REQUIRED		LINKS ID3	ID2	ID1	ID0
9480-11	1		OUT	OUT	IN	OUT
9480-12	1		IN	OUT	IN	OUT
9480-21	1		OUT	IN	IN	OUT
9480-22	1		IN	IN	IN	OUT
9481-11	1		OUT	IN	OUT	OUT
9481-12	1		IN	IN	OUT	OUT
9489-1	1		OUT	OUT	OUT	OUT
9489-2	1		IN	OUT	OUT	OUT
9493-9	1		OUT	IN	IN	IN
9493-18	1		IN	IN	IN	IN
9493-28	2	CONTROLLER 'A'	IN	IN	IN	IN
		CONTROLLER 'B'	OUT	IN	IN	IN
		SEE NOTE 5				
9493-37	2	BOTH CONTROLLERS	IN	IN	IN	IN

C.T. PROGRAMME

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD SCOTLAND U.K.

SCHEMATIC DISK 1

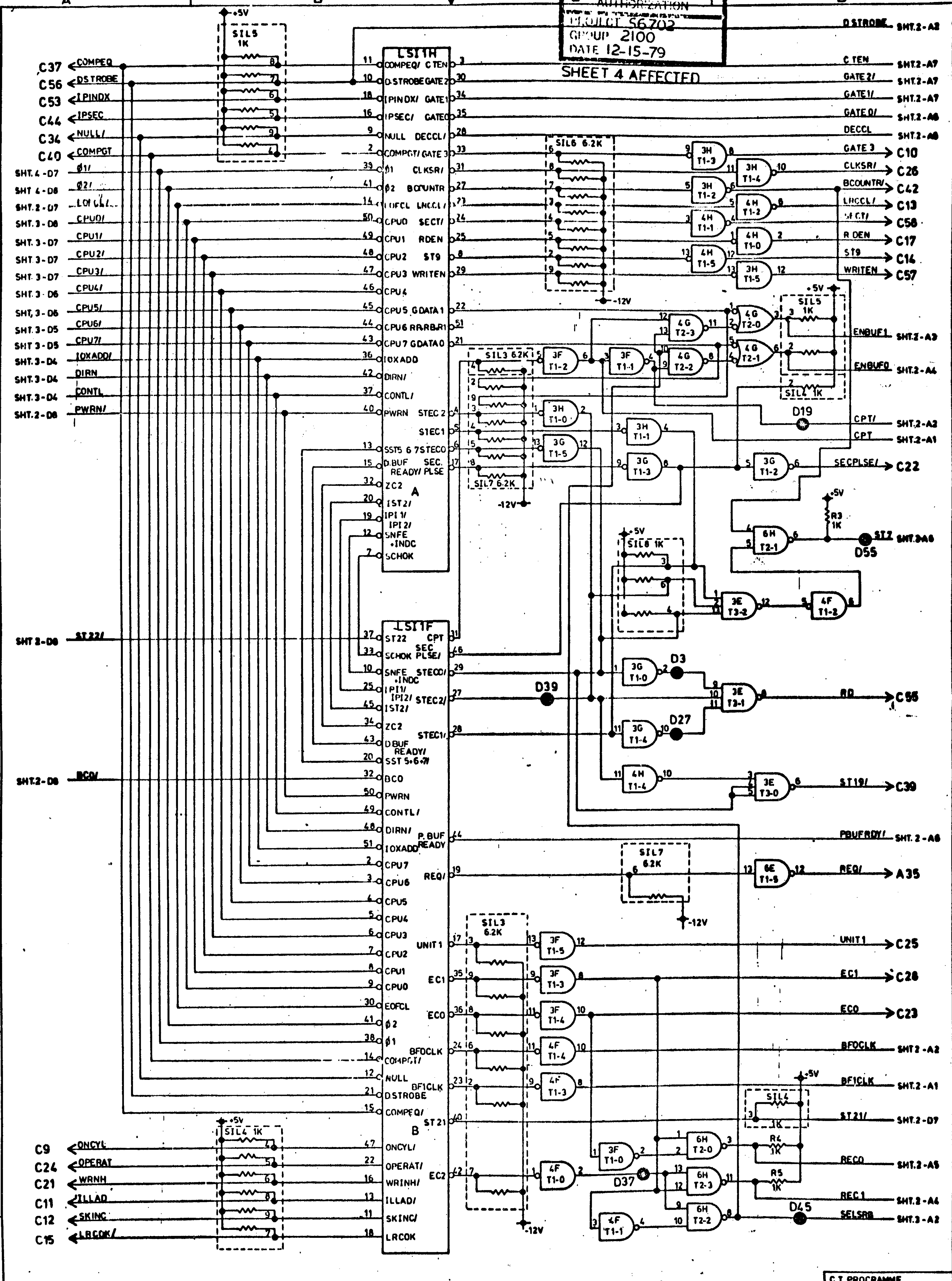
ORIGINATOR	DATE	DRAWN	DATE	DRAWING No
SZCZUR	9-24-79	JK	10-16-79	2798 9029
		CHECKED R.E.G.	10-18-79	
		A1	29520	REV A

2798 9029 PAGE 4 OF 4

EDA 62932 JRL 1-16-80

PLYMOUTH VK TV
ENGINEERING DEVIATION AUTHORIZATION
PROJECT 56702
GROUP 2100
DATE 12-15-79

SHEET 4 AFFECTED



C.T. PROGRAMME

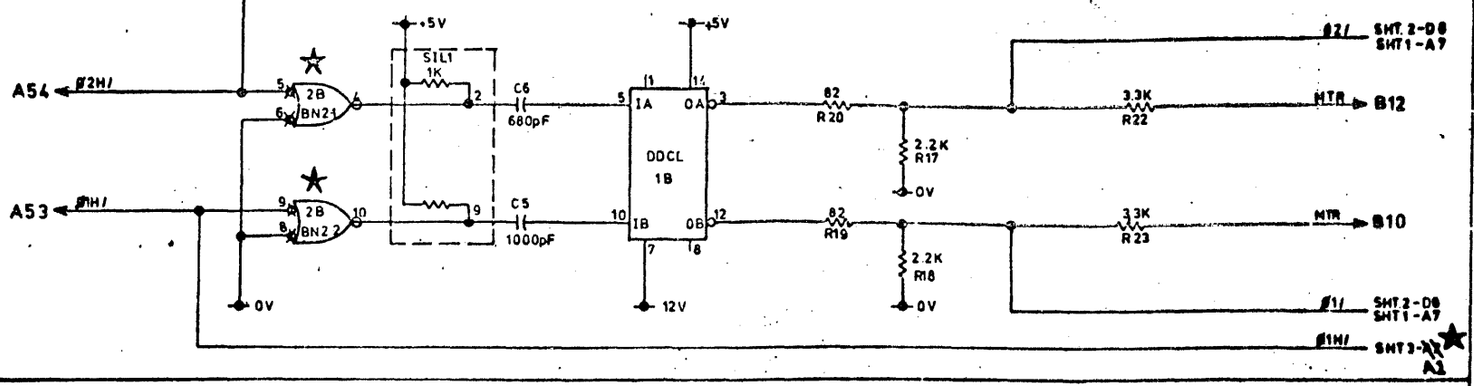
PAGE	1-6
DRAWING No.	2798 9029
RELEASED	EDA 62957
REV	A

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND U.K.

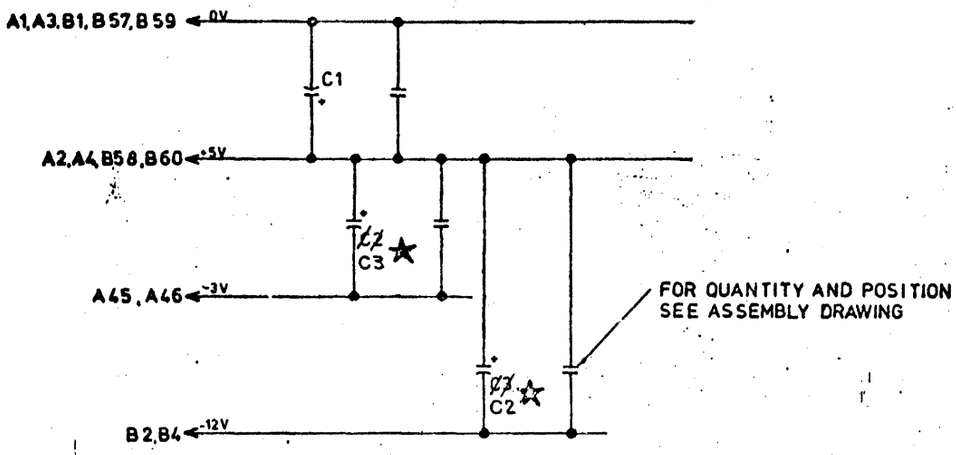
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

TITLE	SCHEMATIC, DISK 1.			
DESIGNER SZCZUR	DATE 9-24-79	DRAWN JK	DATE 10-16-79	DRAWING No. 2798 9029
APPROVED R Taylor	DATE 24 Oct 79	CHECKED REG	DATE 10-18-79	
		DWG SIZE A1	2-9570	REV A / PAGE 1-4

CLOCK DISTRIBUTION



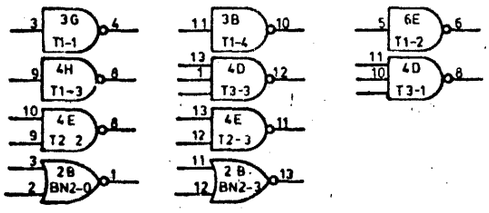
POWER DISTRIBUTION



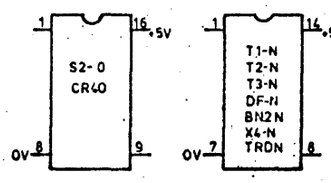
EDA 62932
PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION TV
PROJECT 56702
GROUP 2100
DATE 12-15-79

DECOUPLING CAPACITORS QUANTITY & POSITION AS IN ASSEMBLY DRAWING

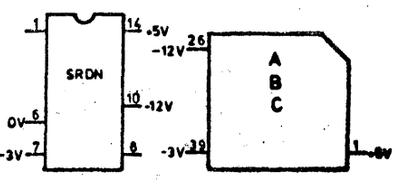
SPARE GATES



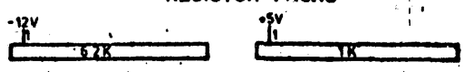
IC's



LSI's



RESISTOR PACKS



2798 9011

NOTES:- FOR ASSEMBLY WITHOUT LSI SEE ~~2798 8836~~

1. FOR L.S.I. ASSEMBLY SEE ~~2798 8836~~ 2798 9003
2. CODES USED FOR COMPONENT PART Nos ARE AS FOLLOWS:-

IC's		LSIs		RESISTOR PACKS	
T1-N — SN 7404	1447 3532	A	2574 3162	6.2K	2571 9923
T2-N — SN 7400	1447 3516	B	2574 3170	1K	2571 9915
T3-N — SN 7410	1447 3540	C	2574 3188		
DF-N — SN 7474	1447 3607				
BN2N — SN 74128	1269 6860				
S2-N — SN 74157	1447 3797				
CR4N — SN 74161	1447 3771				
X4-N — SN 7486	1447 3658				
DDCL — MH 0026	1846 5229				
SRDN — B 1000	2571 5418				
TRDN — TX/RX 8T30	~~2571 8104~~ 2472 2548				

3. UNLESS OTHERWISE SPECIFIED RESISTANCE VALUES ARE IN OHMS
4. IDENTITY LINKS INSERTED AS SHOWN IN TABLE 1
5. CONTROLLER A CONNECTED TO SPINDLE WITH 2 DISKS
   CONTROLLER B CONNECTED TO SPINDLE WITH 1 DISK

CAPACITORS
C1, ~~C2~~, C3 47μF 1267 9262
ALL OTHERS 01μF 2848 3956
C2 47μF 1267 9270
C6 680PF 2300 5556
C5 C7 1000PF 2300 5572

TABLE 1

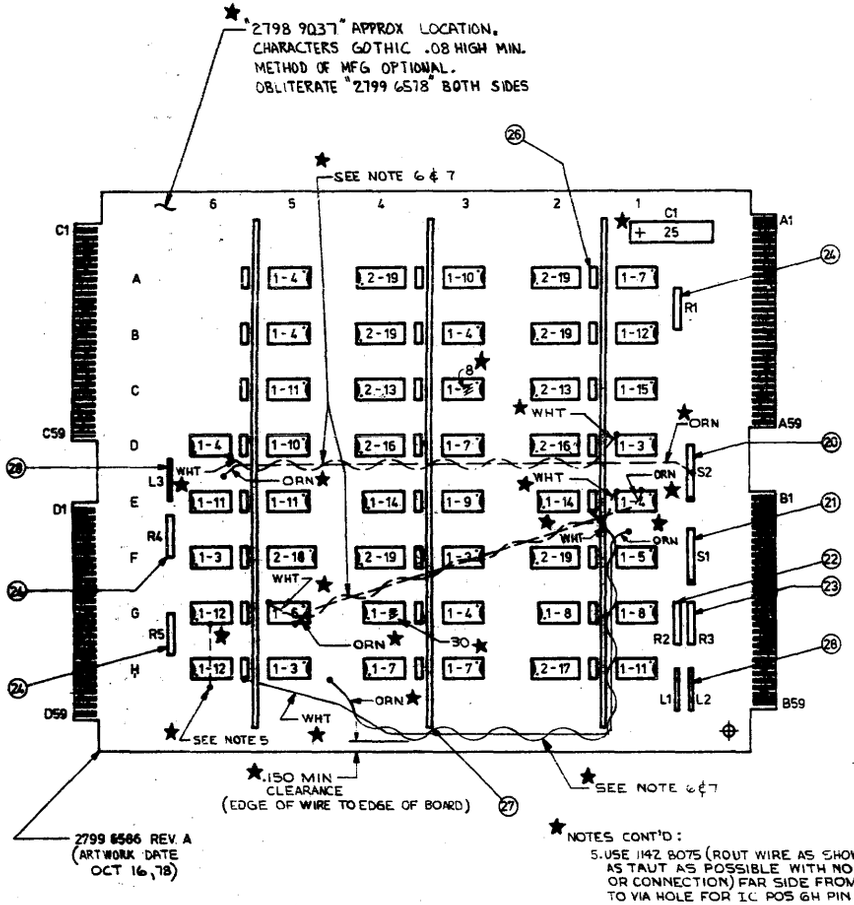
DISC	CONTROLLERS REQUIRED		LINKS ID3	ID2	ID1	ID0
9480-11	1		OUT	OUT	IN	OUT
9480-12	1		IN	OUT	IN	OUT
9480-21	1		OUT	IN	IN	OUT
9480-22	1		IN	IN	IN	OUT
9481-11	1		OUT	IN	OUT	OUT
9481-12	1		IN	IN	OUT	OUT
9489-1	1		OUT	OUT	OUT	OUT
9489-2	1		IN	OUT	OUT	OUT
9493-9	1		OUT	IN	IN	IN
9493-18	1		IN	IN	IN	IN
9493-28	2	CONTROLLER A	IN	IN	IN	IN
		CONTROLLER B	OUT	IN	IN	IN
		SEE NOTE 5				
9493-37	2	BOTH CONTROLLERS	IN	IN	IN	IN

CT PROGRAMME

Burroughs — SMALL SYSTEMS DIVISION, CUMBERNAULD, SCOTLAND	SCHEMATIC DISK 1		
SZCZUR	9-24-79	JK	10-16-79
		R.E.G.	10-18-79
A1	29520	A	4 4

2798 9029

DWG NO. 2798 9037 REV A
SHEET 1 OF 3
RELEASED EDA 62957 A



CODE	DESCRIPTION	PART NO.	REQD.	
1	SOCKET 14 PIN	2603 8281	33	
2	" 16 PIN	2603 8299	12	
3	I.C. SN7400	1447 3516	4	★
4	" SN7404	1447 3532	6	
5	" SN74S04	2600 1495	1	
6	" SN7408	1447 3524	1	
7	" SN7410	1447 3540	4	★
8	" SN74S10	2600 1503	3	★
9	" SN7427	2600 4929	1	
10	" SN7430	1447 3573	2	
11	" SN7437	1447 9596	4	
12	" SN7474	1447 3607	3	
13	" SN7485	1449 2052	2	
14	" SN7486	1447 3698	2	
15	" SN74128	1269 8860	1	
16	" SN74157	1447 3797	2	
17	" SN74161	1447 3771	1	
18	" SN74175	1449 1278	1	
19	" SN74195	1447 3755	6	
20	S.I.L. RES. PACK 180Ω	2799 7592	1	SEE NOTE 8
21	" " " 270Ω	2799 7600	1	SEE NOTE 8
22	RESISTOR 180Ω	1268 1136	1	
23	" 270Ω	1268 1177	1	
24	" 1KΩ	1268 1318	3	
25	CAPACITOR 47μF 20V	1267 9262	1	★
26	" 0.1μF	2848 3956	24	
27	BUSBAR	2848 9805	3	
28	WIRE LINK	1377 1845	AR.	SEE TABLE 1.
29				
30	I.C. SN74S00	2600 1487	1	★

CODE	DESCRIPTION	PART NO.	REQD.
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
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51			
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55			
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57			
58			
59			
60			

★ NOTES CONT'D:

5. USE 1142 8075 (ROUT WIRE AS SHOWN WITH WIRE AS TAUT AS POSSIBLE WITH NO STRAIN ON WIRE OR CONNECTION) FAR SIDE FROM IC POS 6G PIN 4 TO VIA HOLE FOR IC POS 6H PIN 10

6. USE 2572 7066 ORN/WHT TWISTED PAIR (ROUT WIRE AS SHOWN, WITH WIRE AS TAUT AS POSSIBLE WITH NO STRAIN ON WIRE OR CONNECTION):
(ORN WIRE) FROM VIA HOLE FOR IC POS 1E PIN 10 TO VIA HOLE FOR IC POS 5H PIN 13
(WHT WIRE) FROM GND LEAD OF CAPACITOR (AS SHOWN) TO GND LEAD OF CAPACITOR (AS SHOWN)

FAR SIDE - (ORN WIRE) FROM RES PACK S2 PIN 5 TO VIA HOLE FOR IC POS 6D PIN 9
FAR SIDE - (WHT WIRE) FROM IC POS 1D PIN 7 TO IC POS 6D PIN 7

FAR SIDE - (ORN WIRE) FROM IC POS 1E PIN 3 TO IC POS 5G PIN 12
FAR SIDE - (WHT WIRE) FROM IC POS 1E PIN 7 TO IC POS 5G PIN 7

7. SECURE WIRES TO BOARD SURFACE AS REQD (PRODUCT ENGINEERING APPROVED METHOD OF MFG)

8. FOR 2799 7592 RES PACK, USE BECKMAN P/N 785-1-R180. PIN 10 MUST BE CLIPPED OFF FLUSH WITH BODY

FOR 2799 7600 RES PACK, USE BECKMAN P/N 785-1-R270. PIN 10 MUST BE CLIPPED OFF FLUSH WITH BODY

BOTH THE BURROUGHS EIGHT DIGIT PART NUMBER AND THE BECKMAN PART NUMBER MUST BE MARKED ON THESE PARTS

9. (★) INDICATES MODIFICATION

TABLE 1

DISK	LINKS		
	L1	L2	L3
9489	OUT	IN	IN
9480	OUT	IN	IN
9481	OUT	IN	IN
9493	IN	OUT	OUT

★ 2798 9045 REV A

NOTES:
1. FOR SCHEMATIC SEE [illegible] REV. K
2. MAX HEIGHT OF I C PACKAGES IN SOCKET .450 FROM CARD SURFACE
3. INSERT I C PACKAGES IN SOCKETS AFTER FLOW SOLDER
4. ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

UNLESS OTHERWISE SPECIFIED

MAX HEIGHT OF COMPONENTS .450 FROM CARD SURFACE
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F
LEAD PROTRUSION FROM CARD SURFACE .06 MAX

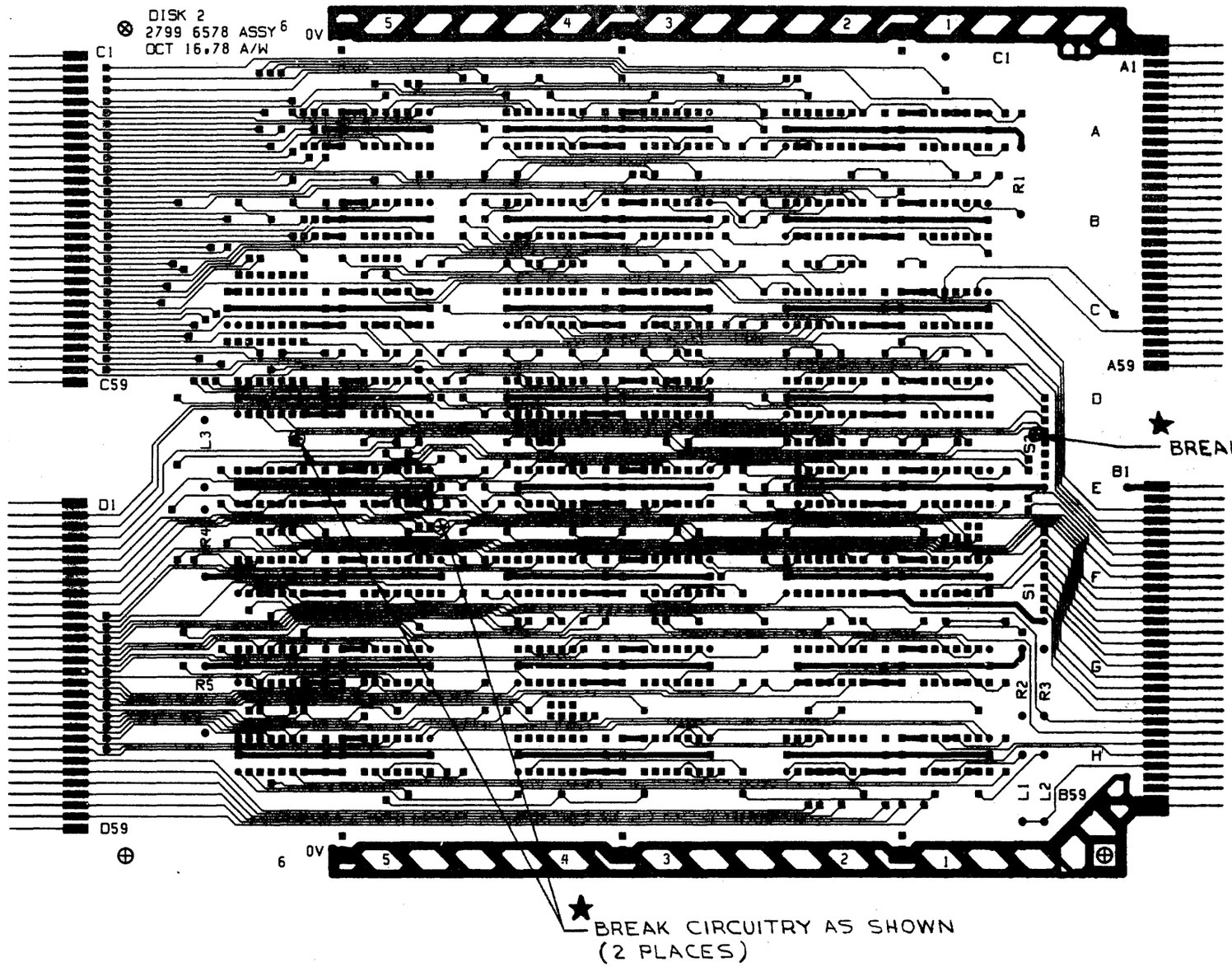
DO NOT SCALE

MFG REF: 2799 6578

DRAWN	JK	10-6-79	
CHECKED	REG	10-10-79	
ENGINEER	SZCZUR	9-24-79	
APPROVED	[illegible]	10-11-79	

DESIGN CONTROL NO. 2-7045
TECHNICAL SERVICES
Burroughs
BOARD ASSEMBLY – DISK 2.
SIZE A1 DRWG NO. 2798 9037 SHEET NO. 1 OF 3 REV. A

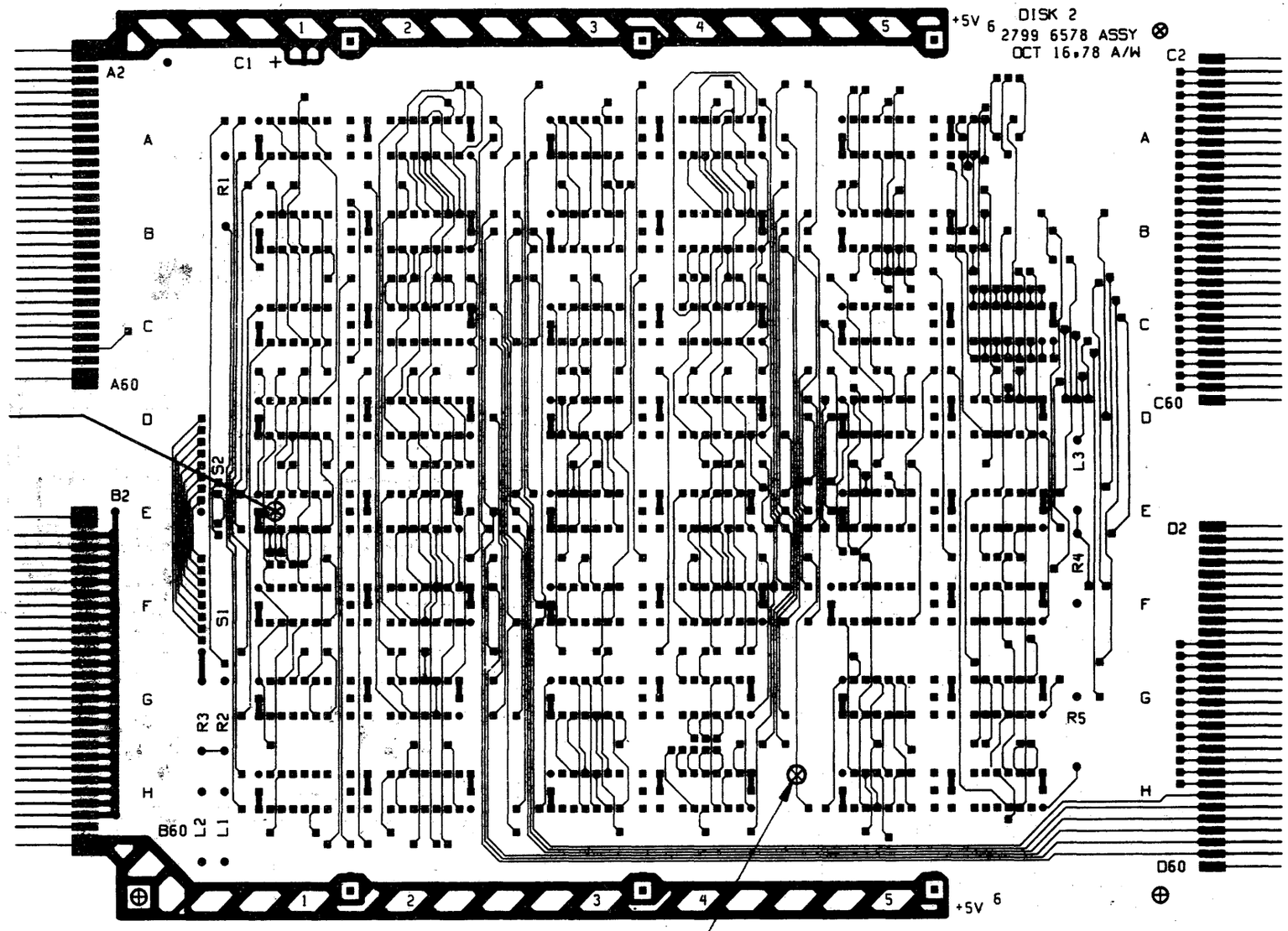
2798 9037		
SHEET 2 OF 3		A
RELEASED	EDA 629S7	



V'D REG 10-10-79

BOARD ASSEMBLY, DISK 2	
2798 9037	REV A
SHEET 2 OF 3	

2798 9037		
SHEET 3 OF 3		A
RELEASED	EDA 62957	

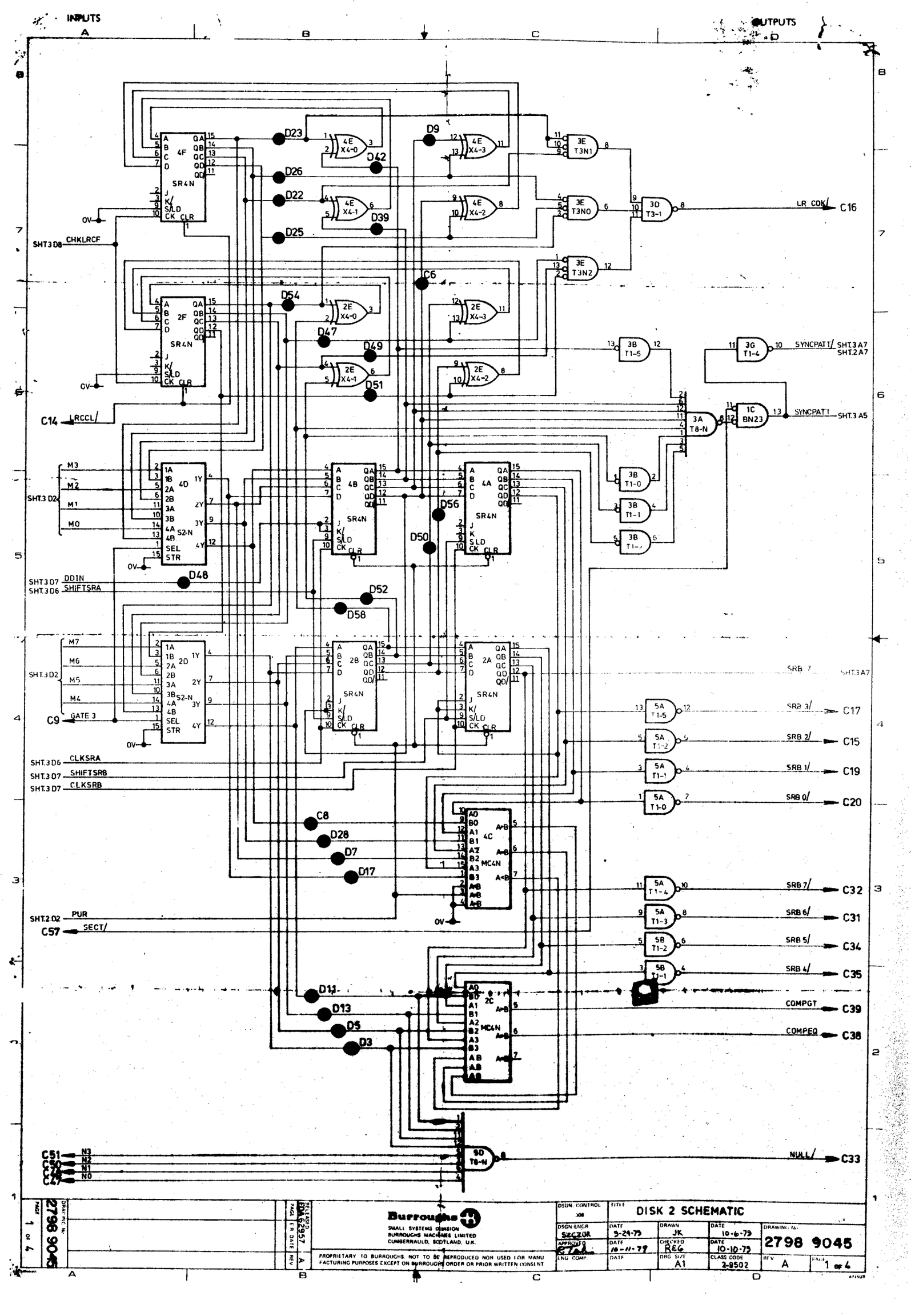


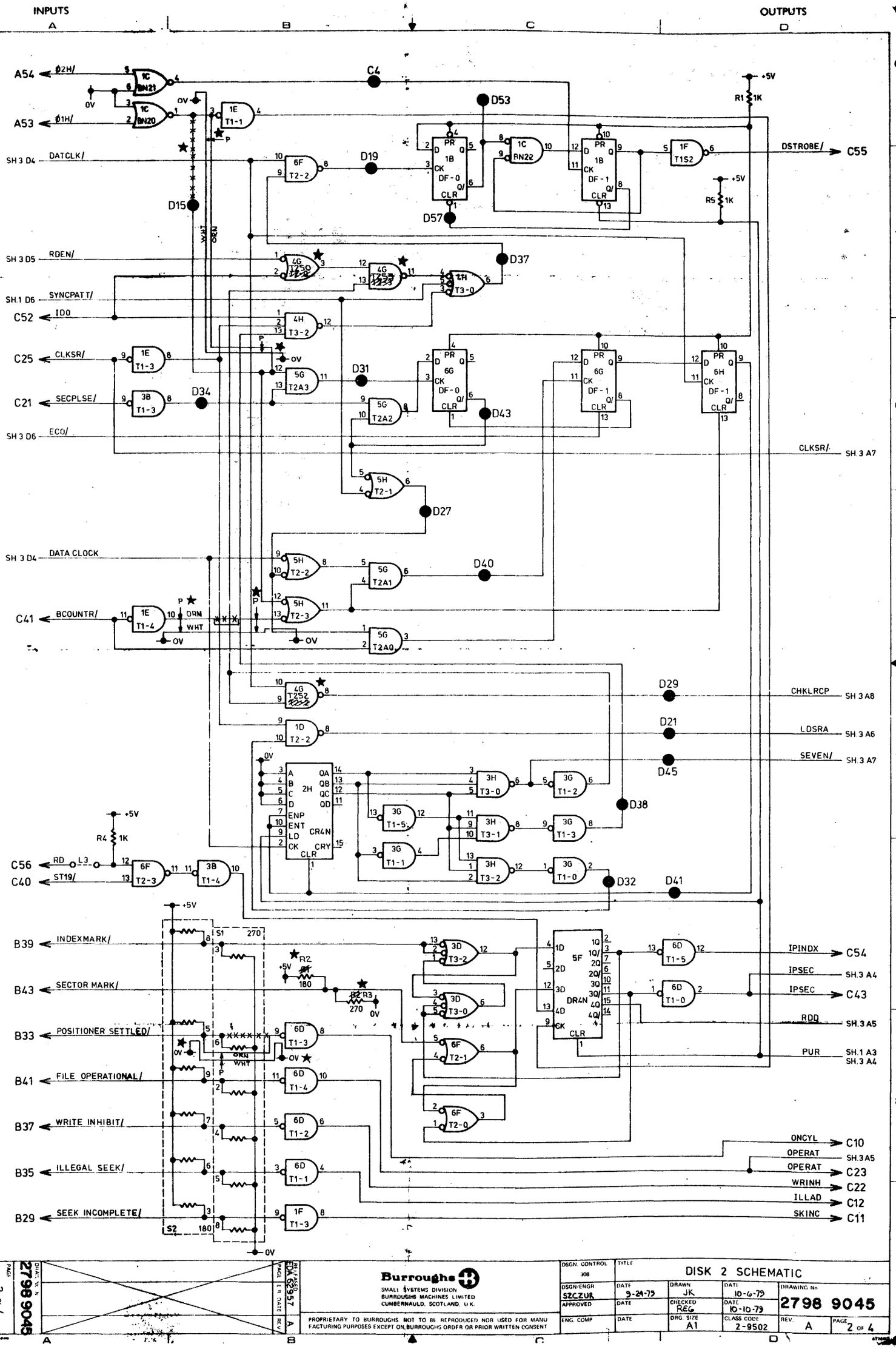
★ BREAK CIRCUITRY AS SHOWN (1 PLACE)

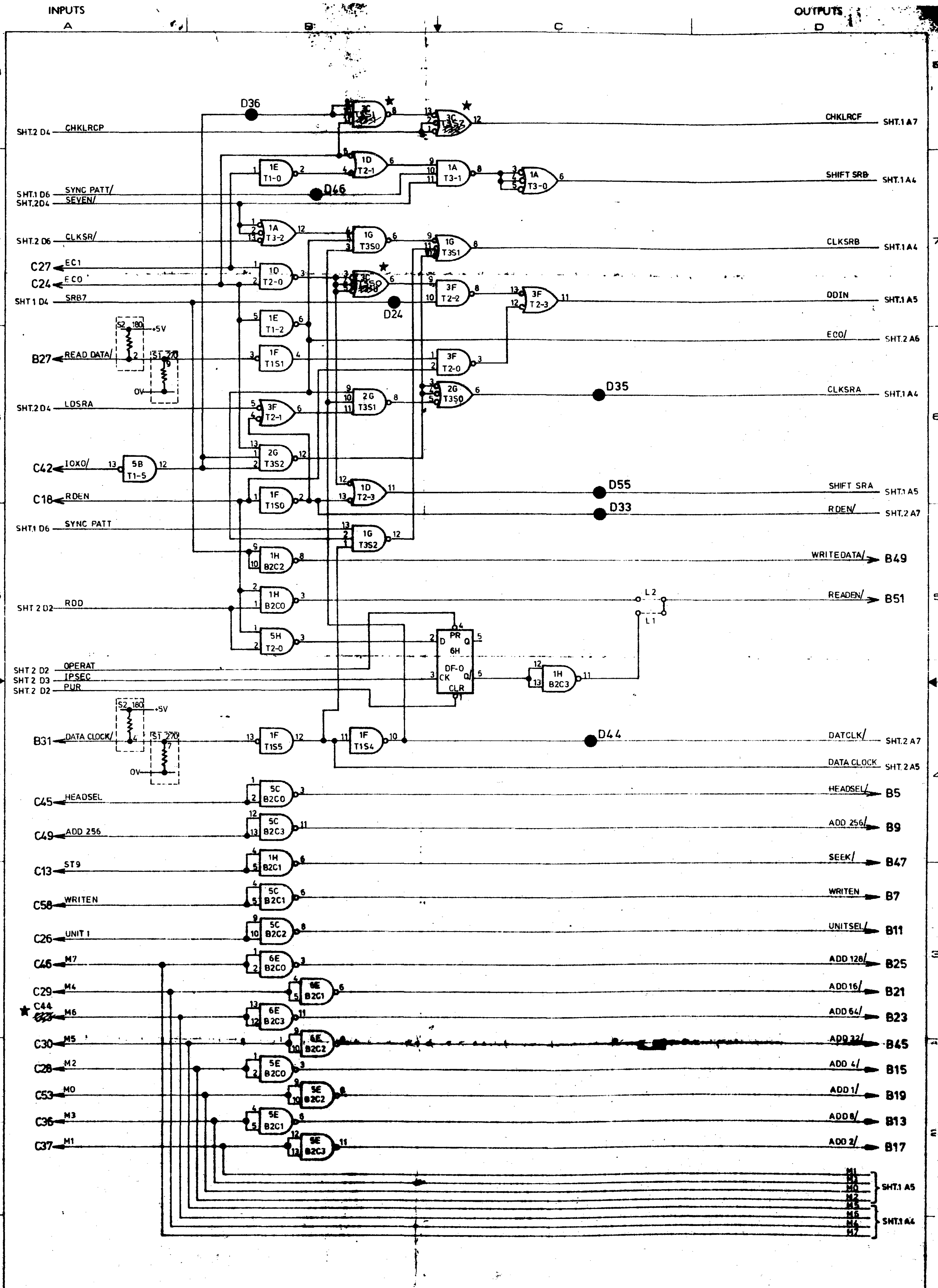
★ BREAK CIRCUITRY AS SHOWN (1PLACE)

V'D REG 10-10-79

BOARD ASSEMBLY, DISK 2	
2798 9037	REV A
SHEET 3 OF 3	


INPUTS
OUTPUTS
4F SR4N
2F SR4N
4D S2-N
2D S2-N
4E X4-0
4E X4-1
4E X4-2
4E X4-3
2E X4-0
2E X4-1
2E X4-2
2E X4-3
4B SR4N
2B SR4N
4A SR4N
2A SR4N
4C MC4N
2C MC4N
3E T3N1
3E T3NO
3E T3N2
3D T3-1
3B T1-5
3B T1-0
3B T1-1
3A T8-N
3G T1-4
1C BN23
5A T1-5
5A T1-2
5A T1-1
5A T1-0
5A T1-4
5A T1-3
5B T1-2
5B T1-1
9D T8-N
D23
D9
D42
D26
D22
D39
D25
D54
D47
D49
D51
D56
D50
D48
D52
D58
D8
D28
D7
D17
D11
D13
D5
D3
C6
C14 LRCCL/
C9 GATE 3
C57 SECT/
C51 N3
C50 N2
C49 N1
C47 N0
SHT3 D8 CHKLRCF
SHT3 D2
SHT3 D7 DDIN
SHT3 D6 SHIFTSRA
SHT3 D6 CLKSRA
SHT3 D7 SHIFTSRB
SHT3 D7 CLKSRB
SHT2 D2 PUR
LR COK/ C16
SYNCPATT/ SHT3 A7 SHT2 A7
SYNCPATT SHT3 A5
SRB 7
SHT3 A7
SRB 3/ C17
SRB 2/ C15
SRB 1/ C19
SRB 0/ C20
SRB 7/ C32
SRB 6/ C31
SRB 5/ C34
SRB 4/ C35
COMPGT C39
COMPEQ C38
NULL/ C33
0V
Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT
DISK 2 SCHEMATIC
DSGN-ENGR SEGZUR 9-24-79
APPROVED 10-11-79
DRAWN JK 10-6-79
CHECKED REG 10-10-79
DRG SIZE A1
CLASS CODE 2-9502
DRAWING NO. 2798 9045
REV A
PAGE 1 OF 4
DRAWING NO. 2798 9045
PAGE 1 OF 4
RELEASED DDA 2957
REV A


INPUTS
OUTPUTS
A54 Ø2H/
A53 Ø1H/
SH 3 D4 DATCLK/
SH 3 D5 RDEN/
SH.1 D6 SYNCPATT/
C52 IDO
C25 CLKSR/
C21 SECPLSE/
SH 3 D6 ECO/
SH 3 D4 DATA CLOCK
C41 BCOUNTR/
C56 RD L3
C40 ST19/
B39 INDEXMARK/
B43 SECTOR MARK/
B33 POSITIONER SETTLED/
B41 FILE OPERATIONAL/
B37 WRITE INHIBIT/
B35 ILLEGAL SEEK/
B29 SEEK INCOMPLETE/
DSTROBE/ C55
CLKSR/ SH.3 A7
CHKLRCP SH 3 A8
LDSRA SH.3 A6
SEVEN/ SH.3 A7
IPINDX C54
IPSEC SH.3 A4
IPSEC C43
RDQ SH.3 A5
PUR SH.1 A3 SH.3 A4
ONCYL C10
OPERAT SH.3 A5
OPERAT C23
WRINH C22
ILLAD C12
SKINC C11
D15 D19 D27 D29 D31 D32 D34 D37 D38 D40 D41 D43 D45 D53 D57
C4
+5V
0V
R1 1K
R2 180
R3 270
R4 1K
R5 1K
S1 270
S2 180
WHT
ORN
Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT
DSGN. CONTROL 308
DSGN/ENGR SZCZUR
APPROVED
ENG. COMP
DATE 9-24-79
DRAWN JK
CHECKED REG
DRG. SIZE A1
CLASS CODE 2-9502
TITLE DISK 2 SCHEMATIC
DRAWING No 2798 9045
REV. A
PAGE 2 OF 4
RELEASED ECA 6257
2798 9045
PAGE 2 of 4



INPUTS
OUTPUTS
SHT.2 D4 CHKLRCP
CHKLRCF SHT.1 A7
SHT.1 D6 SYNC PATT/
SHT.2 D4 SEVEN/
SHIFT SRB SHT.1 A4
SHT.2 D6 CLKSR/
CLKSRB SHT.1 A4
C27 EC1
C24 ECO
SHT 1 D4 SRB7
DDIN SHT.1 A5
ECO/ SHT.2 A6
B27 READ DATA/
SHT.2 D4 LDSRA
CLKSRA SHT.1 A4
C42 IOXO/
C18 RDEN
SHIFT SRA SHT.1 A5
RDEN/ SHT.2 A7
SHT.1 D6 SYNC PATT
WRITEDATA/ B49
SHT 2 D2 RDD
READEN/ B51
SHT 2 D2 OPERAT
SHT 2 D3 IPSEC
SHT 2 D2 PUR
B31 DATA CLOCK/
DATCLK/ SHT.2 A7
DATA CLOCK SHT.2 A5
C45 HEADSEL
HEADSEL/ B5
C49 ADD 256
ADD 256/ B9
C13 ST9
SEEK/ B47
C58 WRITEN
WRITEN B7
C26 UNIT 1
UNITSEL/ B11
C46 M7
ADD 128/ B25
C29 M4
ADD 16/ B21
C44 M6
ADD 64/ B23
C30 M5
ADD 32/ B45
C28 M2
ADD 4/ B15
C53 M0
ADD 1/ B19
C36 M3
ADD 8/ B13
C37 M1
ADD 2/ B17
M1 M3 M0 M2 SHT.1 A5
M5 M6 M4 M7 SHT.1 A4
D36 D46 D24 D35 D55 D33 D44
L2 L1

DSGN. CONTROL 300	TITLE DISK 2 SCHEMATIC		
DSGN/ENGR. SZCZUR	DATE 9-24-79	DRAWN JK	DATE 10-6-79
APPROVED	DATE	CHECKED REG	DATE 10-10-79
ENG. COMP	DATE	DRG. SIZE A1	CLASS CODE 2-9502

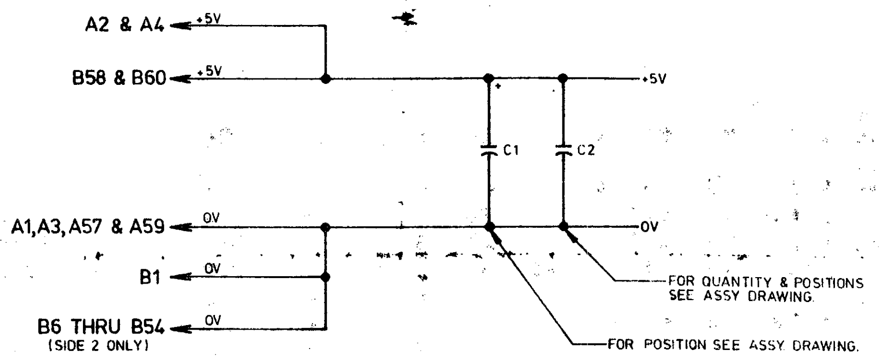
DRAWING No 2798 9045
REV A
PAGE 3 of 4

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

RELEASED EDA 62957 A

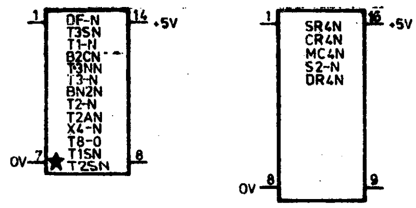
PAGE 3 of 4 DRAWING No 2798 9045

INPUTS | OUTPUTS

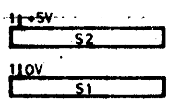


NOTES:
1. FOR ASSEMBLY SEE DWG. ~~2798 5578~~ 2798 9037 ★
2. UNLESS OTHERWISE SPECIFIED RESISTANCE VALUES ARE IN OHMS.
3. LINKS L1, L2 & L3 TO BE INSERTED AS PER TABLE 1.
4. CODES USED FOR COMPONENT PART NOS. ARE AS FOLLOWS

I.C's



RESISTOR PACKAGES



S1 — 270Ω 2799 7600
S2 — 180Ω 2799 7592

CAPACITORS

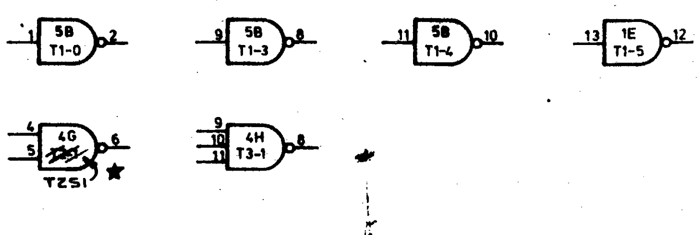
C1 — 47μF 20V 1267 9262
C2 — 0.1μF 2848 3956

DF-N	SN7474	1447	3607
T3SN	SN74S10	2600	1503
T1-N	SN7404	1447	3532
B2CN	SN7437	1447	9596
SR4N	SN74195	1447	3755
T3NN	SN7427	2600	4929
T3-N	SN7410	1447	3540
BN2N	SN74128	1269	6860
CR4N	SN74161	1447	3771
T2-N	SN7400	1447	3516
T2AN	SN7408	1447	3524
X4-N	SN7486	1447	3698
T8-0	SN7430	1447	3573
MC40	SN7485	1449	2052
S2-N	SN74157	1447	3797
DR4N	SN74175	1449	1278
T1SN	SN74S04	2600	1495
T2SN	SN74S00	2600	1487 ★

TABLE 1

DISC	LINKS		
	L1	L2	L3
9489	OUT	IN	IN
9480	OUT	IN	IN
9481	OUT	IN	IN
9493	IN	OUT	OUT

SPARE GATES



DSGN CONTROL 308	TITLE DISK 2 SCHEMATIC					
DSGN/ENGR. SZCZUR	DATE 9-24-79	DRAWN JK	DATE 10-6-79	DRAWING No 2798 9045		
APPROVED	DATE	CHECKED REG	DATE 10-10-79			
ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE 2-9502	REV A	PAGE 4 OF 4	

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

RELEASED E.D.A. 62957 | REV A

DRAWING No 2798 9045 | PAGE 4 OF 4

PART NUMBER	DOC TYPE	DESCRIPTION	PART STAT	DWG SIZE	MPL REV	DWG REV	U/M	CLASS CODE	DOC CODE	ER NO	ECN NO	DSGN CNTL
2849 2122	PL	CCA TOD	ACT	C	F	B	EA	2-7045-000	2	138050	9041	38

ITEM	PART NUMBER	DESCRIPTION	DOC TYPE	DWG SIZE	DWG REV	D C	SL IN	SL OUT	QTY	U/M	ECN NO	NARRATIVE	
29	1446 6585	SOLDER TINALLOY	SD	A		0	1			AR			
2	1447 3516	IC T2-N CPRL	ST	A		0	1	88	1.00	EA	8321	1J	1
3	1447 3524	IC T2AN CPRF TTL	ST	A		0	1	81	5.00	EA	7734	1C 1D 1F 3H 5F	1
3	1447 3524	IC T2AN CPRF TTL	ST	A		0	82		6.00	EA	7734	1C 1D 1F 3H 5F 7M	1
4	1447 3532	IC T1-N CPRF TTL	ST	A		0	1		3.00	EA		2C 2F 4K	1
5	1447 3557	IC T3AH CPRF TTL	ST	A		0	1		5.00	EA		1H 5E 6B 6E 6G	1
6	1447 3581	IC B2CN CPRF TTL	ST	A		0	1		2.00	EA		1A 1B	1
7	1447 3607	IC DF-N CPRF TTL	ST	A		0	1		1.00	EA		5K	1
8	1447 3623	IC DFHN CPRF TTL	ST	A		0	1		3.00	EA		2G 2L 4I	1
9	1447 3631	IC B4HN CPRF TTL	ST	A		0	1		1.00	EA		2I	1
10	1447 3714	IC S4-N CPRF TTL	ST	A		0	1		4.00	EA		3A 3B 3C 3D	1
11	1447 3771	IC CR4N CPRF TTL	ST	A		0	1	88	19.00	EA	8321	2K 3G 3H 3I 3J 4E 4F 4L 4M	1
												5L 5M 7A 7B 7C 7D 7E 7F 7G	2
												7H	3
11	1447 3771	IC CR4N CPRF TTL	ST	A		0	89		17.00	EA	8321	2K 3G 3H 3I 3J 4L 4K 5L 5M	1
												7A 7B 7C 7D 7E 7F 7G 7H	2
12	1447 3797	IC S2-N CPRF TTL	ST	A		0	1		4.00	EA		1K 1L 1M 1N	1
31	1447 5289	CD CET JNF		A		4	1			RF			
2	1447 9596	IC B2-N CPRF TTL	ST	A		0	89		1.00	EA	8321	1J	1
13	1449 2029	IC S2R2 CPRF TTL	ST	A		0	1		7.00	EA		4A 4B 4C 4D 5A 5B 5C	1
14	1449 2581	IC DCBN CPRF TTL	ST	A		0	1		2.00	EA		2E 5I	1
15	1479 0240	IC T2HN CPRF TTL	ST	A		0	1		4.00	EA		2H 2J 4J 6F	1
16	1479 0265	IC T4HN CPRF TTL	ST	A		0	1		1.00	EA		6J	1
17	1479 7971	IC T1HN CPRF TTL	ST	A		0	1	88	5.00	EA	8321	1G 1I 2C 3L 5M	1
17	1479 7971	IC T1HN CPRF TTL	ST	A		0	89		4.00	EA	8321	1I 2D 3L 5H	1
18	1486 6780	IC T3HN CPRF TTL	ST	A		0	1		1.00	EA		3K	1
19	1737 0198	IC RES MOD	SD	A		0	1		1.00	EA		4G	1
20	2600 1487	IC T2SN CPRF TTL	ST	A		0	1		1.00	EA		2M	1
21	2600 4911	IC T2NN CPRF TTL	ST	A		0	1	81	4.00	EA	7734	6A 6D 7J 7K	1
21	2600 4911	IC T2NN CPRF TTL	ST	A		0	82		5.00	EA	7734	6A 6D 7J 7K 7L	1
23	2600 4937	IC S2SN	ST	A		0	1		2.00	EA		2A 2B	1

PART NUMBER	DOC TYPE	DESCRIPTION	PART STAT	DWG SIZE	MPL REV	DWG REV	U/M	CLASS CODE	DOC CODE	ER NO	ECN NO	DSGN CNTL
2849 2122	PL	CCA TOD	ACT	C	F	B	EA	2-7045-000	2	138050		

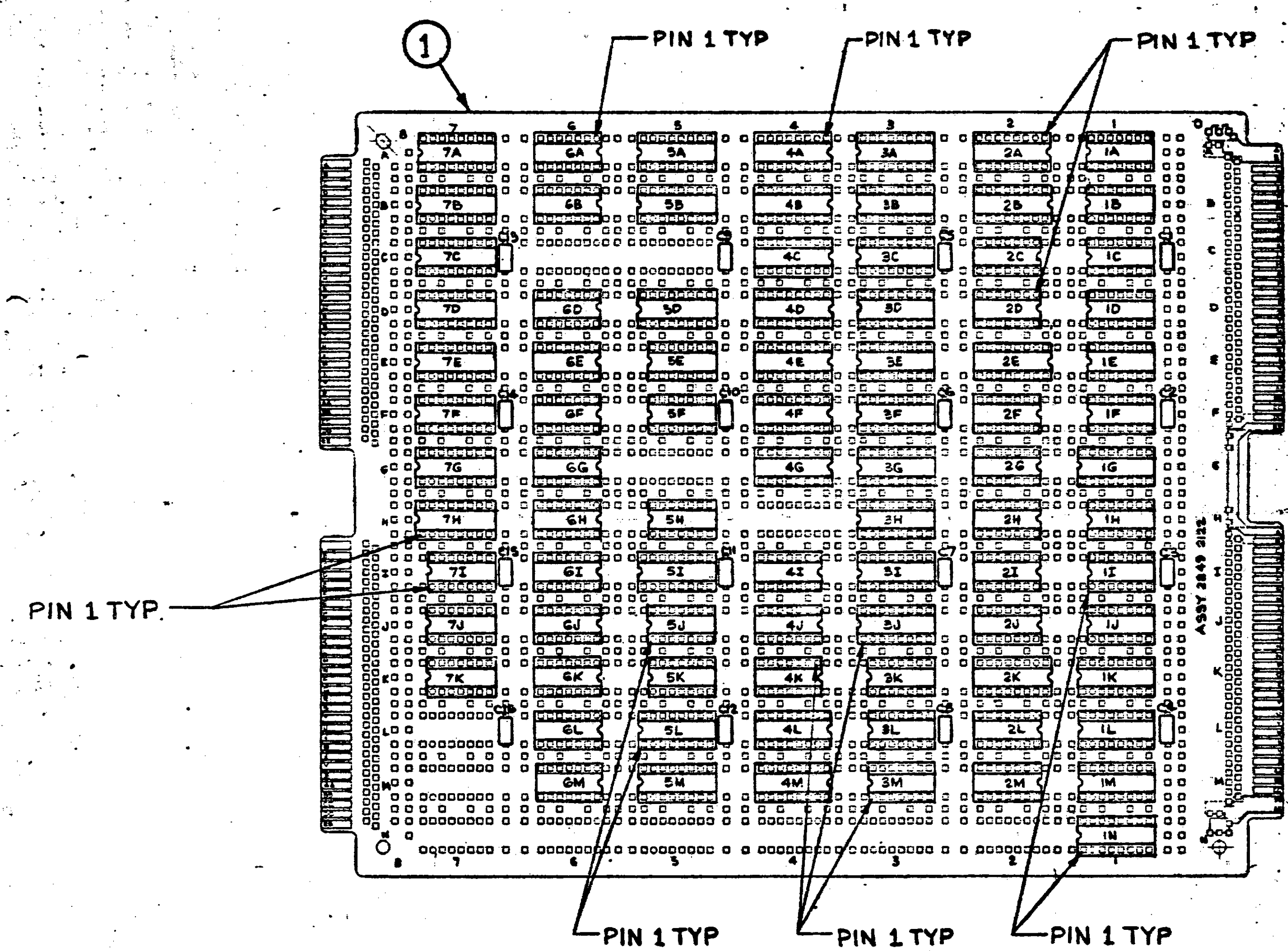
ITEM	PART NUMBER	DESCRIPTION	DOC TYPE	DWG SIZE	DWG REV	D C	SL IN	SL OUT	QTY	U/M	ECN NO	NARRATIVE	
22	2601 2740	IC FCTN CPRF TTL	ST	A		0	1		6.00	EA		5J 6I 6K 6L 6M 7I	1
35	2602 7292	IC T1TS CPRF TTL	ST	A		0	89		1.00	EA	8321	1G	1
24	2602 7342	IC T2AH CPRF TTL	ST	A		0	1		2.00	EA		1E 6H	1
34	2602 7383	IC CR4S CPRF TTL	ST	A		0	89		2.00	EA	8321	4E-4F	1
25	2602 7417	IC S112 CPRF TTL	ST	A		0	1		2.00	EA		3E 3F	1
27	2606 9102	SOCKET 14 PIN	SD	A		0	1	81	45.00	EA	7734	U/M 2-9 15-18 20-22 24 32	1
27	2606 9102	SOCKET 14 PIN	SD	A		0	82	88	48.00	EA	8321	U/M 2-9 15-18 20-22 24 32	1
27	2606 9102	SOCKET 14 PIN	SD	A		0	89	94	47.00	EA	9041	U/M 2-9 15-18 20-22 24 32	1
26	2606 9110	SOCKET 16 PIN	SD	A		0	1	88	41.00	EA	8321	U/M 10-14 19 23 25	1
28	2606 9110	SOCKET 16 PIN	SD	A		0	89	94	42.00	EA	9041	U/M 10-14 19 23 25 34 35	1
												C1-C16	2
26	2848 3956	CAPACITOR	SD	A		0	1		16.00	EA		C1-C16	1
1	2849 2130	PWBA TOD	PL	D		2	1	85	1.00	EA	7947		
30	2849 2205	LD TOD	TF	C	D	3	1			RF		FOR FREE STANDING ONLY	1
32	2849 7865	W/S MODULE	SD			0	1	81	1.00	EA	7643		
33	2851 3620	MODULE-SM-N	SD	A		0	82		1.00	EA	7643	2A	1
1	2851 7209	PWBA TOD	PL	D		2	86		1.00	EA	7947		
27	2853 5706	SOCKETS	SD			0	95		47.00	EA	9041	U/M IT 2-9 15-18 20-22 24	1
												32	2
28	2853 5714	SOCKETS	SD			0	95		42.00	EA	9041	U/M IT 10-14 19 23 25 34	1
												35	2

******LAST LINE******

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
A	REL ER138R50	11-10-78	
B	ECN 8321A 4-17-79 AFT	4/19/79	PA

MFG

MFG

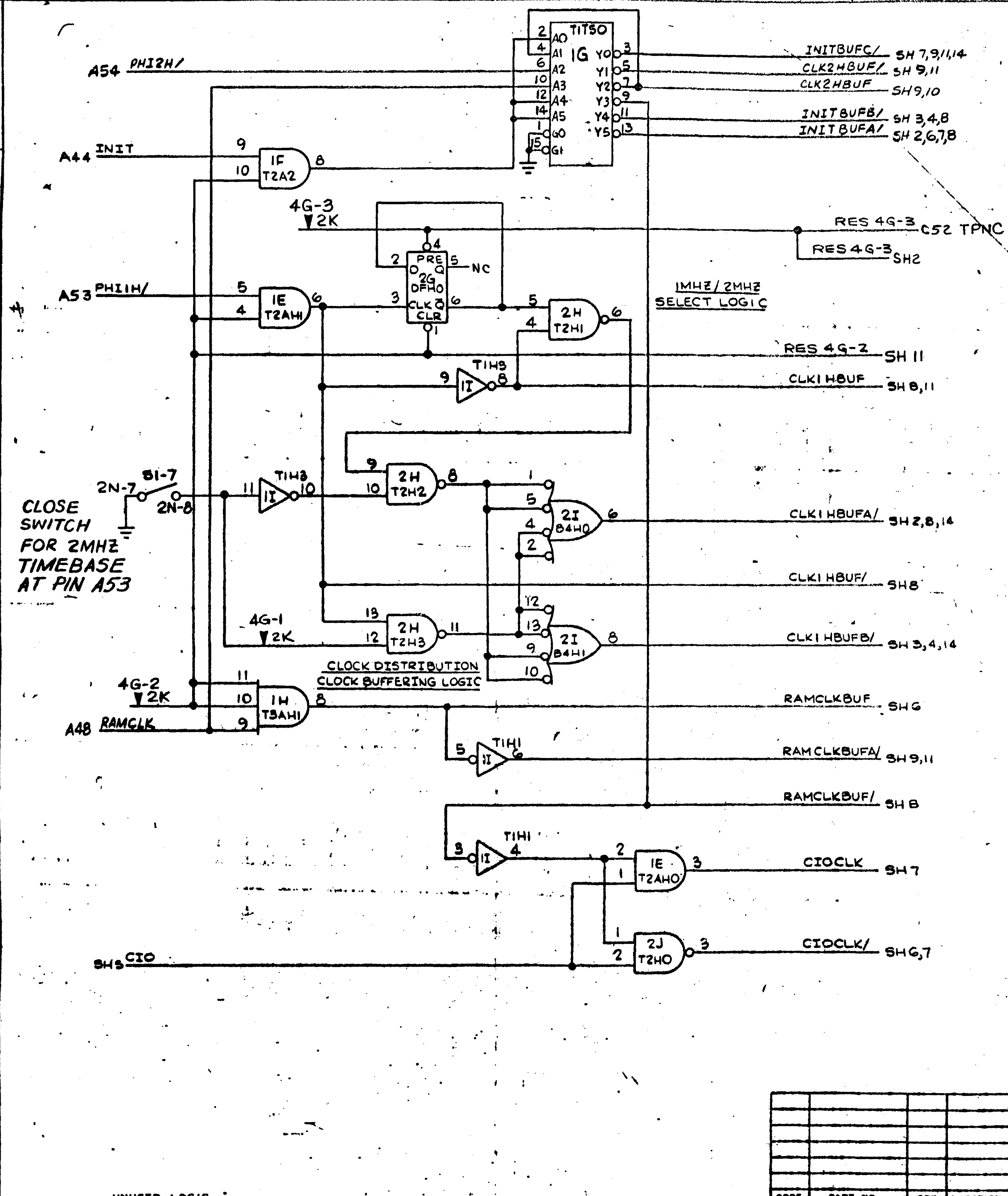


DWG NO. 2849 2122

TOLERANCES UNLESS OTHERWISE NOTED .XXX ± .XX ± ANGLES ± 0	DRAWN RTGORMAN	DATE 11-3-78	GEN QUAL SPEC 1183 5543 APPLY	DSGN CONT 038
MATERIAL	CHECKED P.E. Alen	DATE 11/7/78	Burroughs Corporation	
HEAT TREATMENT	DSGN or ENGR J. Schelm	DATE 11/6/78	SMALL SYSTEMS GROUP DOWNINGTOWN, PA. 19335	DOWNINGTOWN PLANT U S AMERICA
SURFACE TREATMENT	APPROVED E Conrad	DATE 11/6/78	DOC TYPE SA — TITLE CIRCUIT CARD ASSY TOD	CLASS CODE 2-7045
PROPRIETARY TO BURROUGHS – NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.			SCALE 1 — SHEET OF — DWG SIZE C — DWG NO. 2849 2122	REV B

ORIGINAL

ECN 8321A



CODE	PART NO.	QTY	LOCATION

INPUT 1 2 3 4 5 OUTPUT

REV	D	A	C	C	A	A	A	C	B	A	C	A	A	C	D
SH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

REVISIONS: A REL 11-10-77 ER 132; B ECN 7168A RG 12-14-77; C ECN 8331A 5-23-78; D ECN 8665A 11-15-78

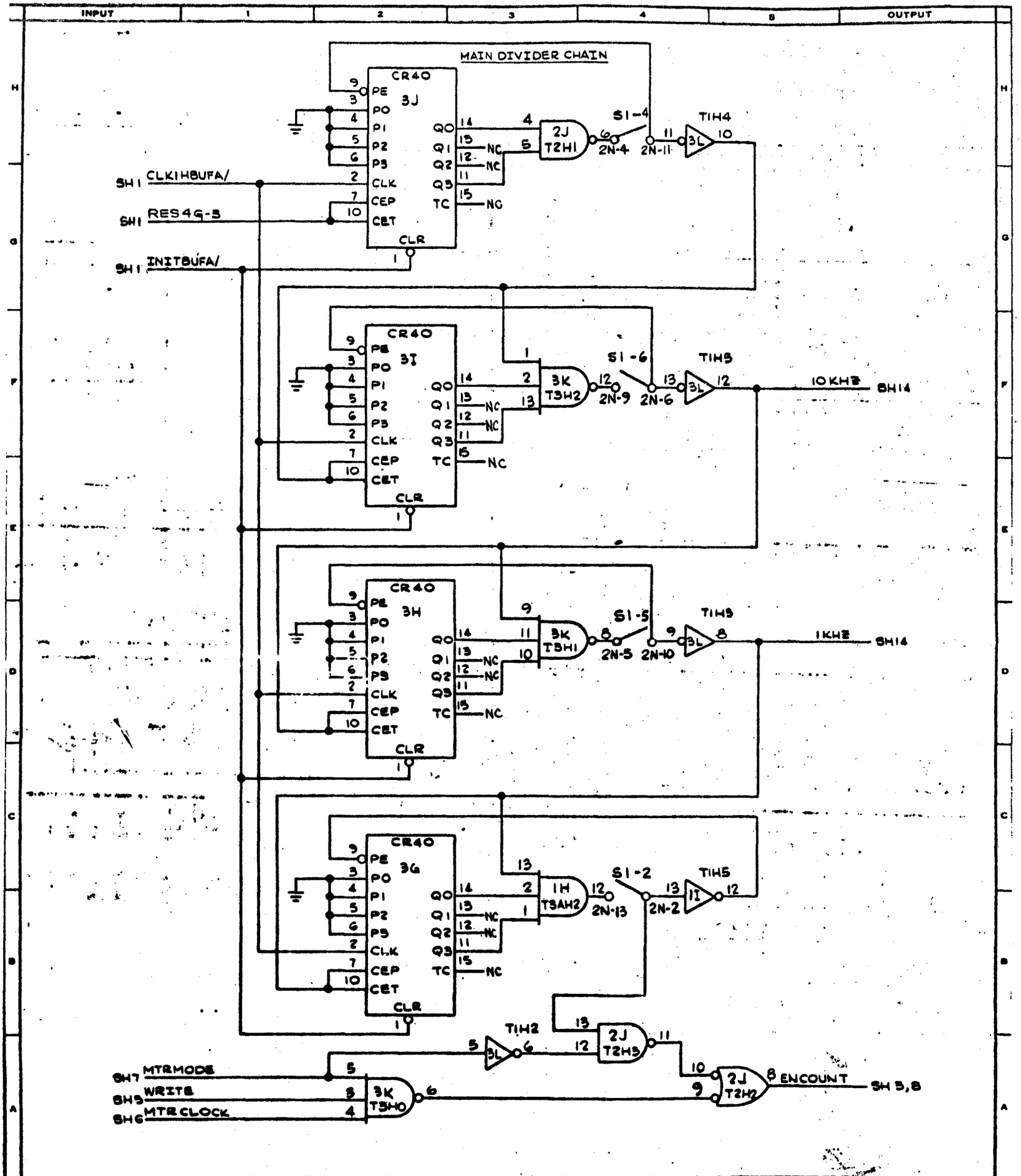
Burroughs Corporation

SMALL SYSTEMS GROUP, DOWNINGTOWN, PA. 19335 — DOWNINGTOWN PLANT, U. S. AMERICA

PRINTED IN U.S. AMERICA

DRAWN	DATE	TITLE	CLASS CODE
T. ENCO	2-8-78	TOD	2-9520
CHECKED: G. Yrouleas	3-15-78	SHEET 1 of 15	DWG NO. 2849 2205
DESIGN ENGR: [signature]	11-8-78	PLT NO. 038	REV D
APPROVED: EB [signature]	11/8/78		

DTR 86 REV 8-71



INPUT	1	2	3	4	5	OUTPUT

Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U.S. AMERICA

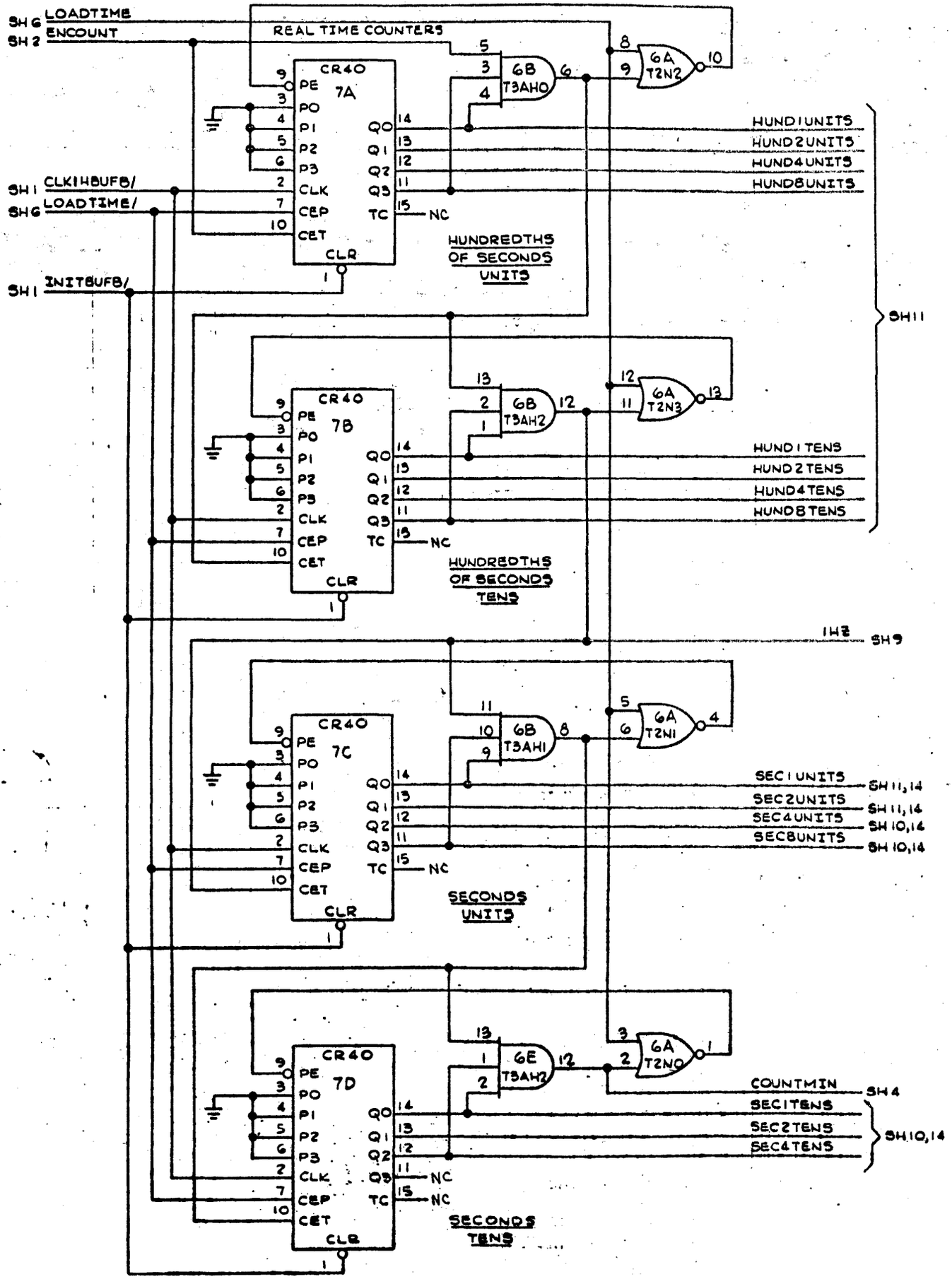
REVISIONS (CONT'D)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
2	2849 2205	038	A

PRINTED IN U.S. AMERICA

BTM 100 REV 0-77



INPUT | 1 | 2 | 3 | 4 | 5 | OUTPUT

Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

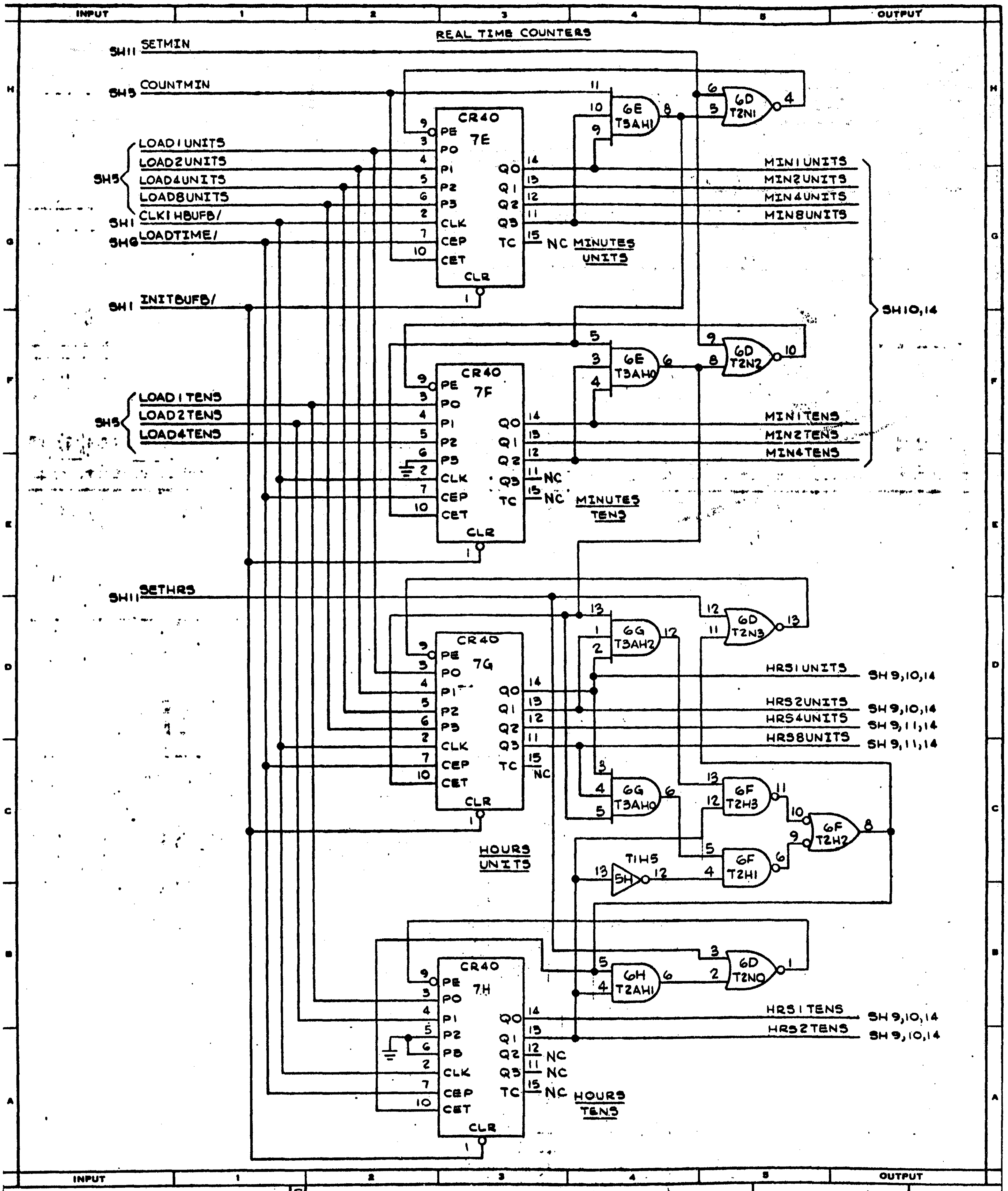
PRINTED IN U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
3	2849 2205	038	C

DSN 100 REV 5-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

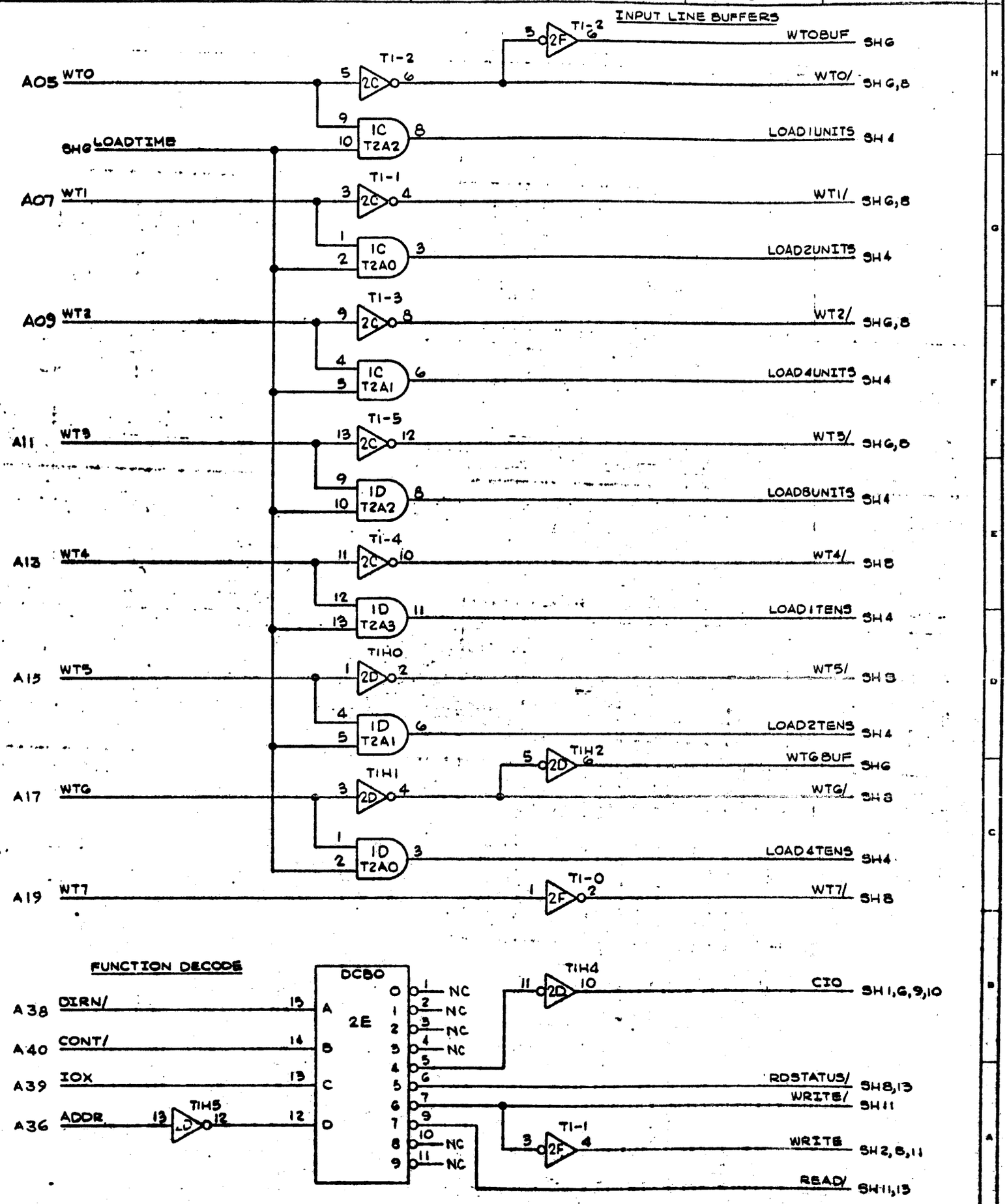
DOWNINGTOWN PLANT
U. S. AMERICA

PRINTED IN U. S. AMERICA

REVISIONS (CONT)

TITLE		CLASS CODE	
TOD		2-9520	
SHEET	DWG NO.	DSGN CONT	REV
4	2849 2205	038	C

BTM 180 REV 5-77



INPUT | 1 | 2 | 3 | 4 | 5 | OUTPUT

Burroughs Corporation

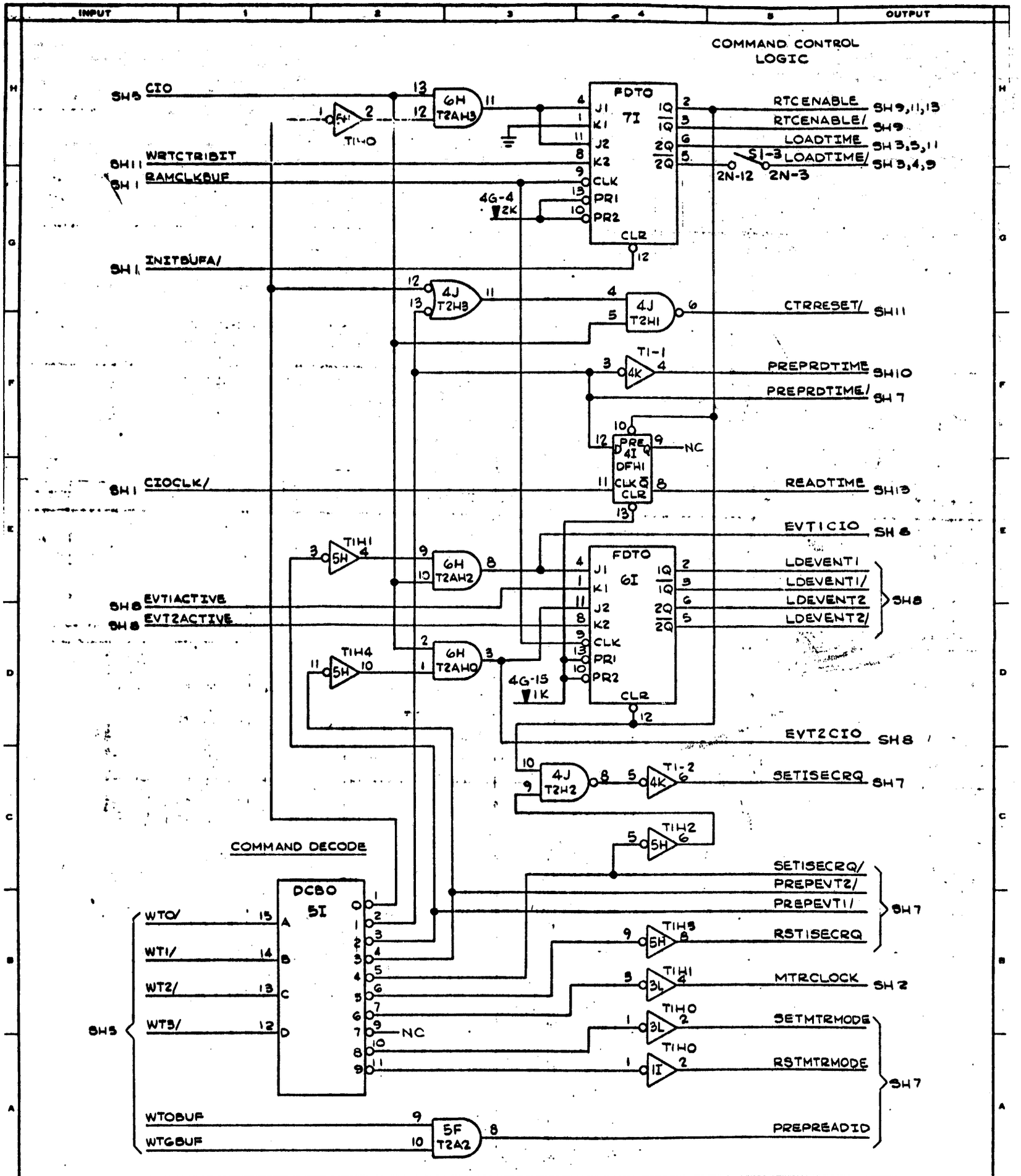
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

PRINTED IN U. S. AMERICA

REVISIONS (CONT)

TITLE		CLASS CODE
TOD		2-9520
SHEET 5	DWG NO. 2849 2205	DSGN CONT 038 / REV A



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

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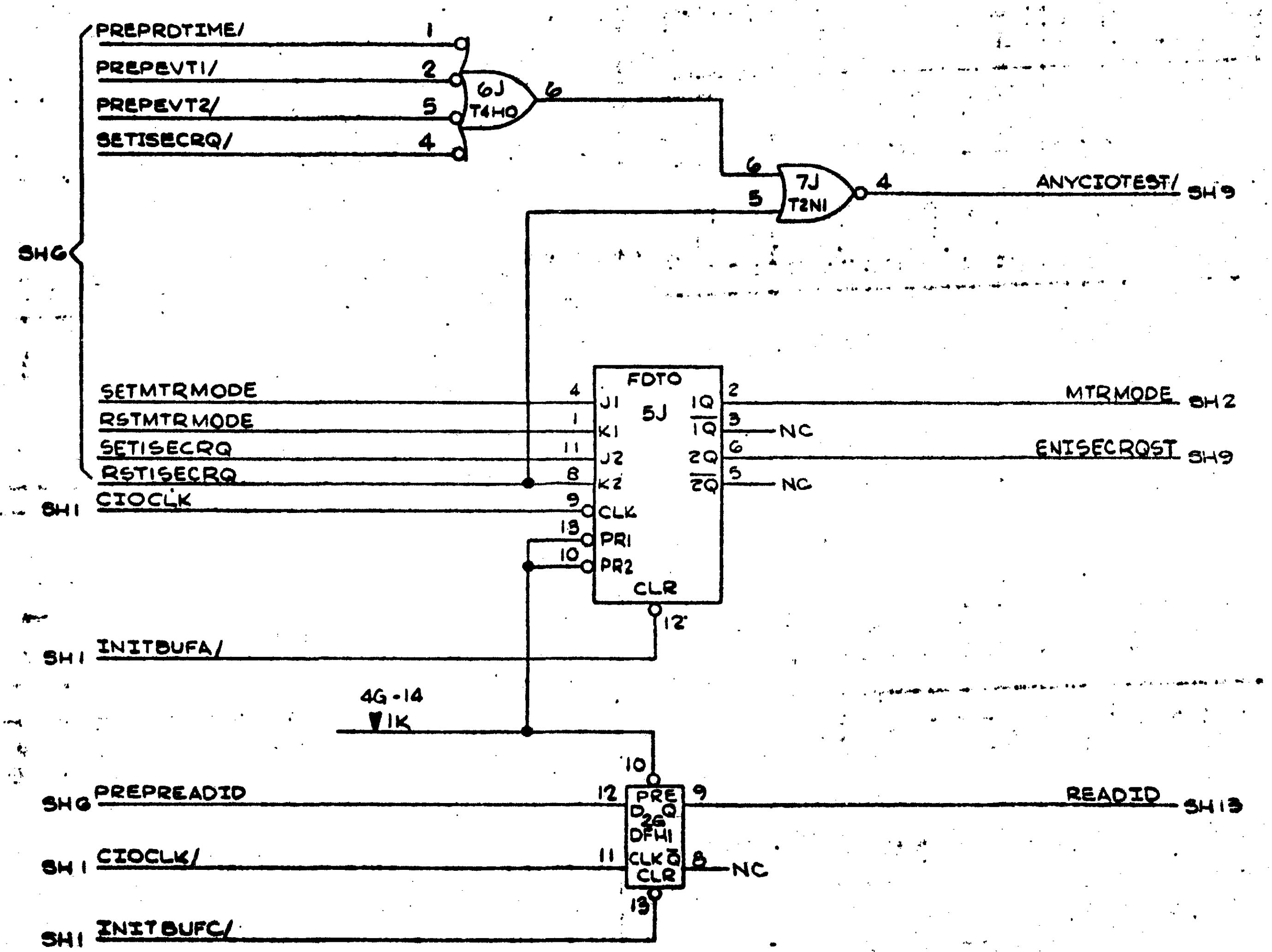
REVISIONS (CONT.)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
6	2849 2205	038	A

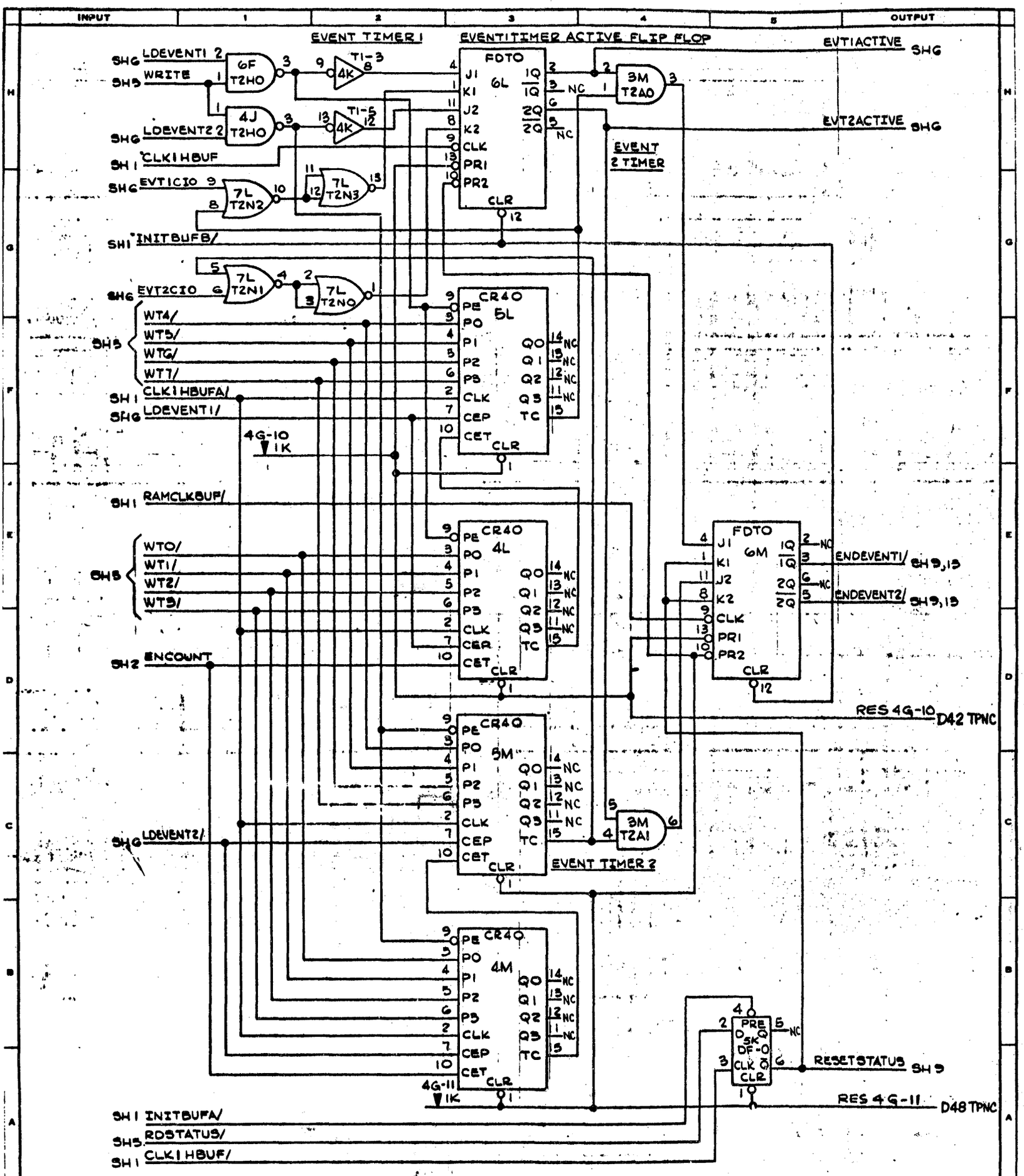
DTN 100 REV 0-77

COMMAND CONTROL LOGIC

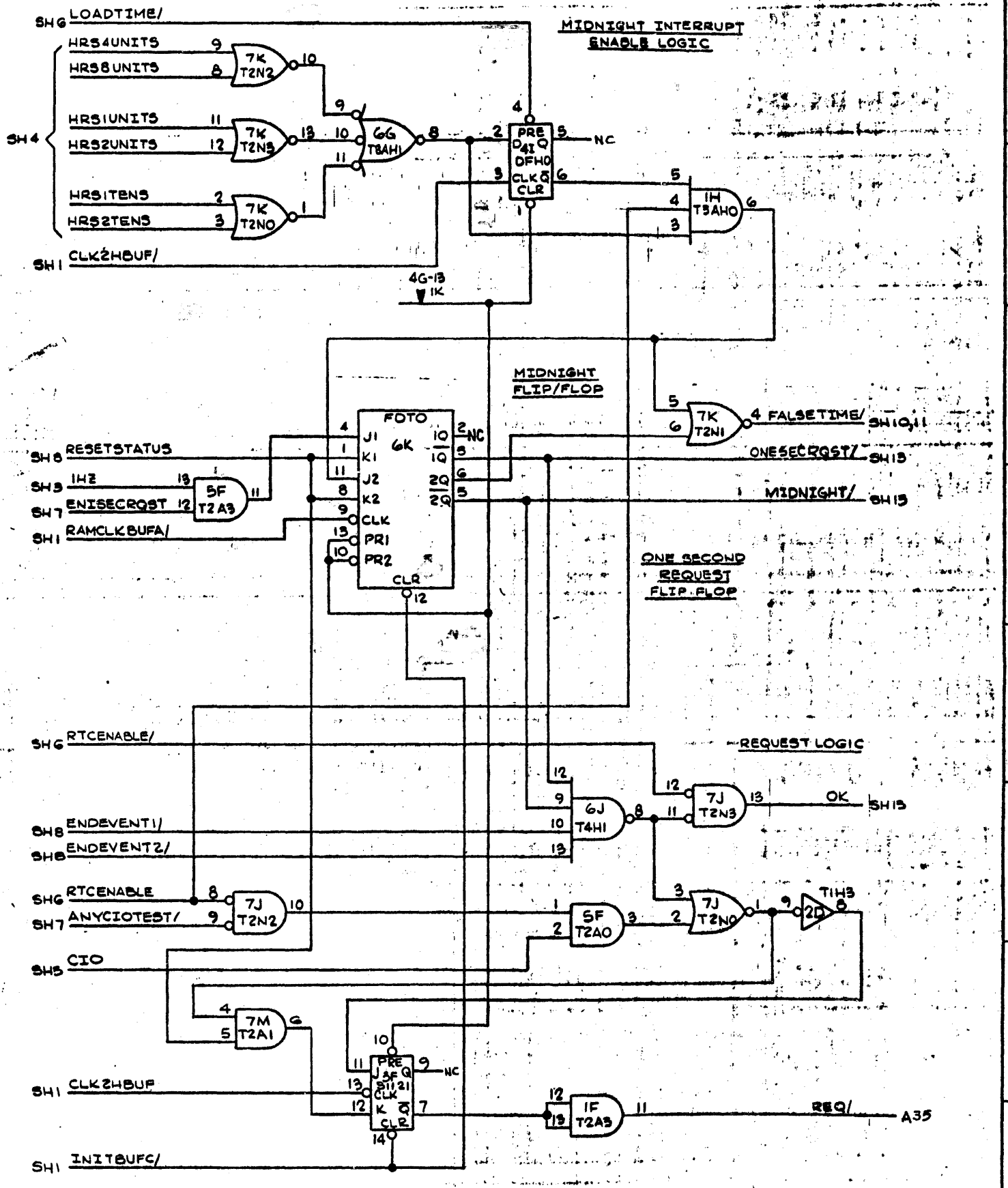


Burroughs Corporation	TITLE: TOD	CLASS CODE: 2-9520
SMALL SYSTEMS GROUP / DOWNINGTOWN PLANT, U. S. AMERICA	SHEET: 7 / DWG NO.: 2849 2205	DSGN CONT: 038 / REV: A

REVISIONS (CONT)



Burroughs Corporation	TITLE: TOD	CLASS CODE: 2-9520	
SMALL SYSTEMS GROUP, DOWNINGTOWN, PA. 19335 — DOWNINGTOWN PLANT, U.S. AMERICA	SHEET: 8	DWG NO.: 2849 2205	DSGN CONT: 038 — REV: C



REVISIONS (CONT)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
9	2849 2205	038	B

TRUE/FALSE DATA SELECTOR-READ TIME LATCH

SH6 PREPRDTIME
SH5 CIO
SH1 CLK2HBUF
SH9 FALSETIME/

5E TSAHO

LATCHCLOCK SH11

4G-6 2K

WS S2R20 5A
WS S2R20 5D
WS S2R20 4A
WS S2R20 4B

HR52TENS
HR51TENS
HR52UNITS
HR51UNITS

LATCHHR2TEN
LATCHHR1TEN
LATCHHR2UN
LATCHHR1UN

MIN4TENS
MIN2TENS
MIN1TENS
MIN8UNITS

LATCHMN4TEN
LATCHMN2TEN
LATCHMN1TEN
LATCHMN8UN

SH4

MIN4UNITS
MIN2UNITS
MIN1UNITS

LATCHMN4UN
LATCHMN2UN
LATCHMN1UN

SEC4TENS

LATCHSC4TEN

SH5

SEC2TENS
SEC1TENS
SEC8UNITS
SEC4UNITS

LATCHSC2TEN
LATCHSC1TEN
LATCHSC8UN
LATCHSC4UN

SH12

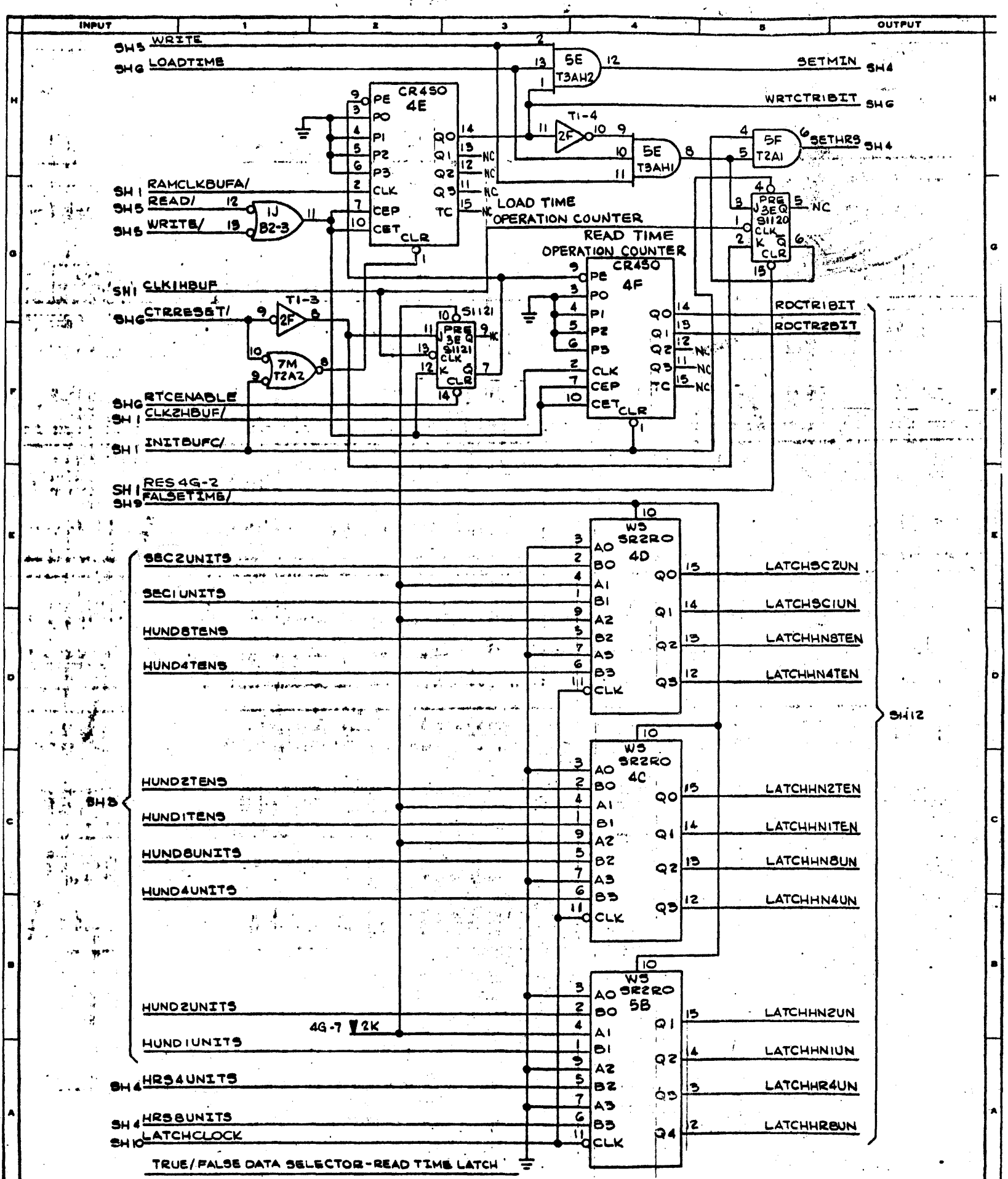
INPUT | 1 | 2 | 3 | 4 | 5 | OUTPUT

Burroughs Corporation
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335
DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE: TOD
CLASS CODE: 2-9520
SHEET: 10
DWG NO.: 2849 2205
DSGN CONT: 038
REV: A

PRINTED IN U.S.A. AMERICA
STN 100 REV 0-72



Burroughs Corporation

SMALL SYSTEMS GROUP, DOWNINGTOWN, PA. 19335 — DOWNINGTOWN PLANT, U. S. AMERICA

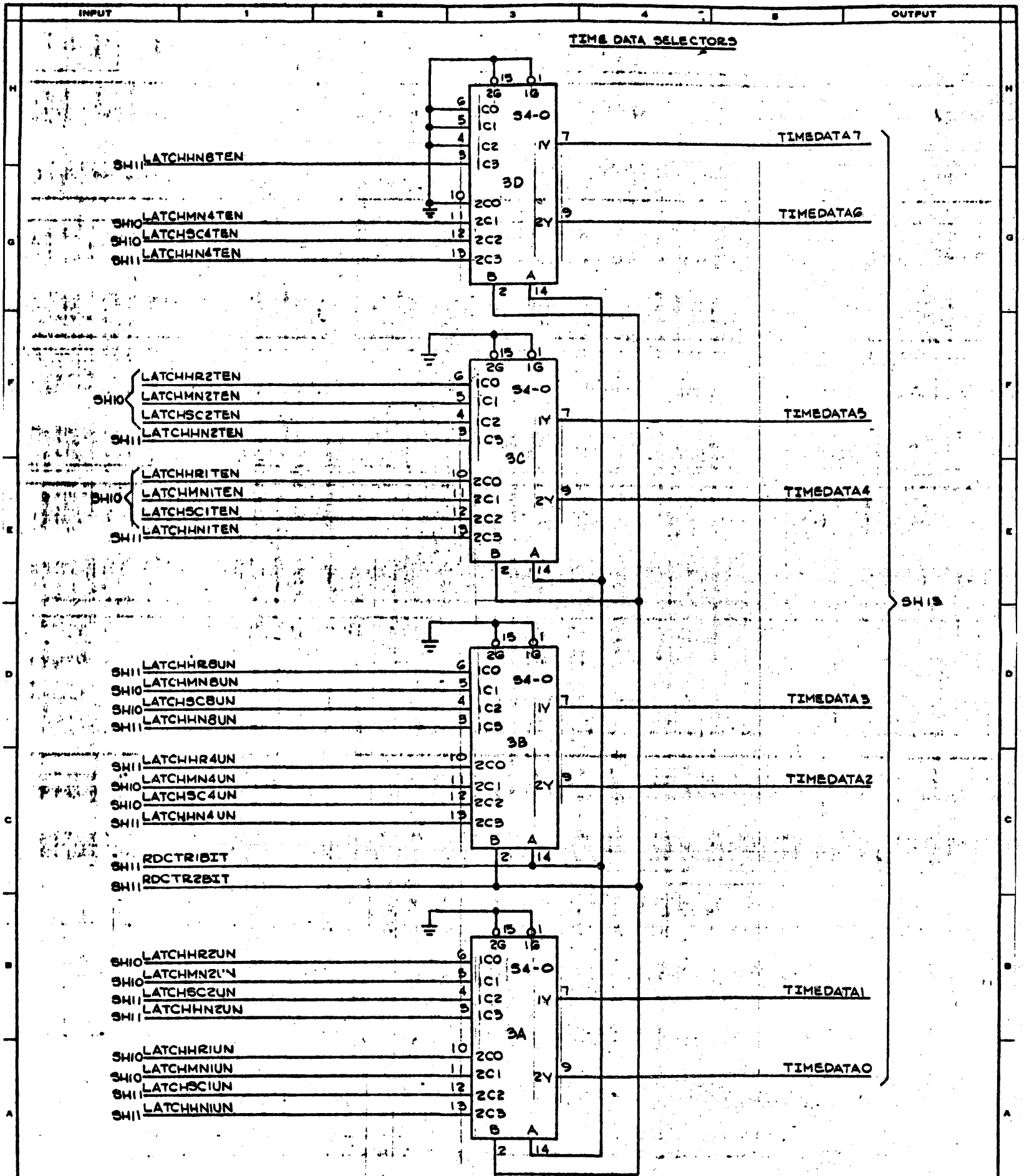
PRINTED IN U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
11	2849 2205	038	C

DTH 100 REV 0-77



INPUT	1	2	3	4	5	OUTPUT

Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

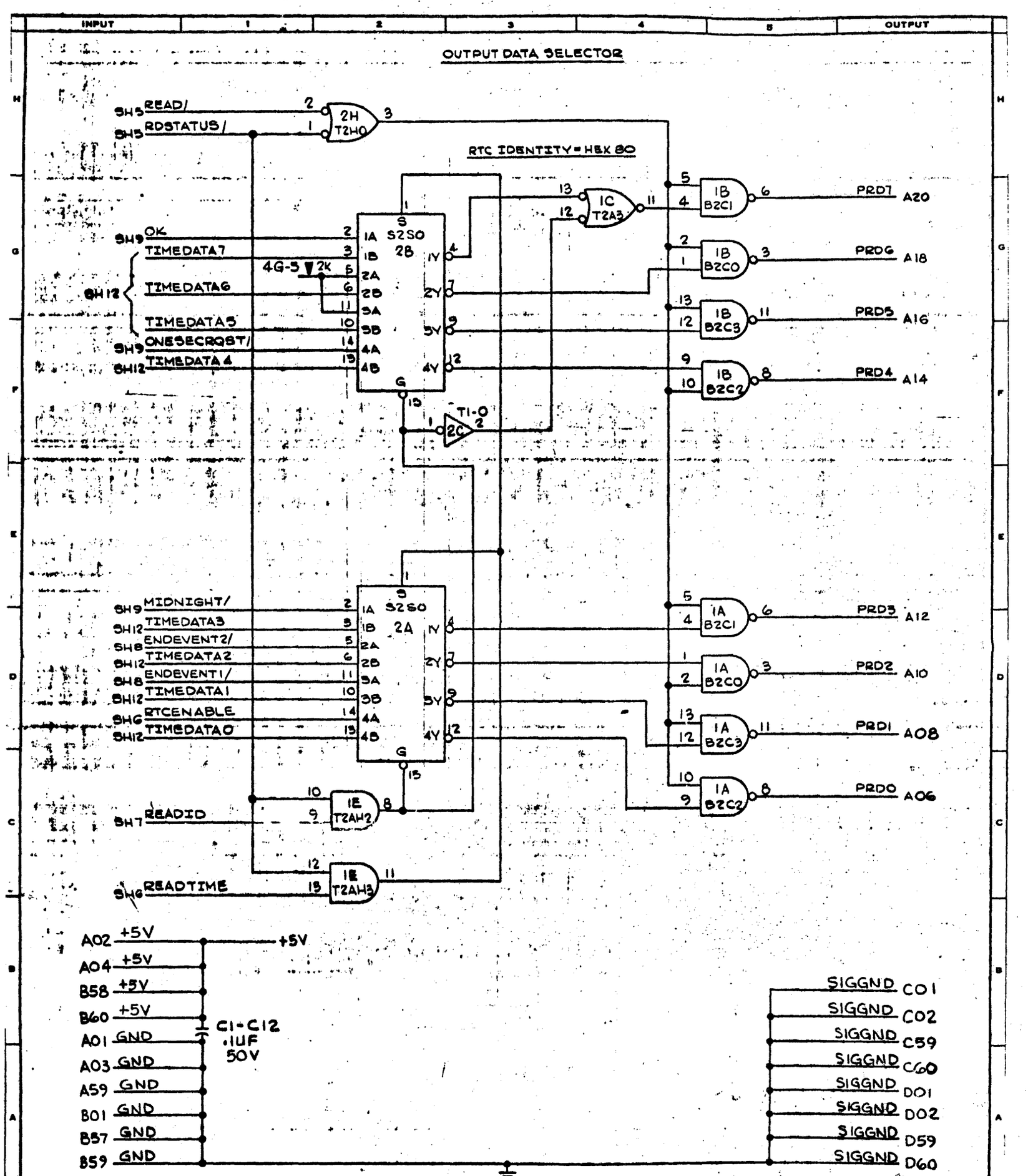
REVISIONS (CONT)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
12	2849 2205	038	A

BTM 100 REV 9-77

OUTPUT DATA SELECTOR



INPUT 1 2 3 4 5 OUTPUT

Burroughs Corporation

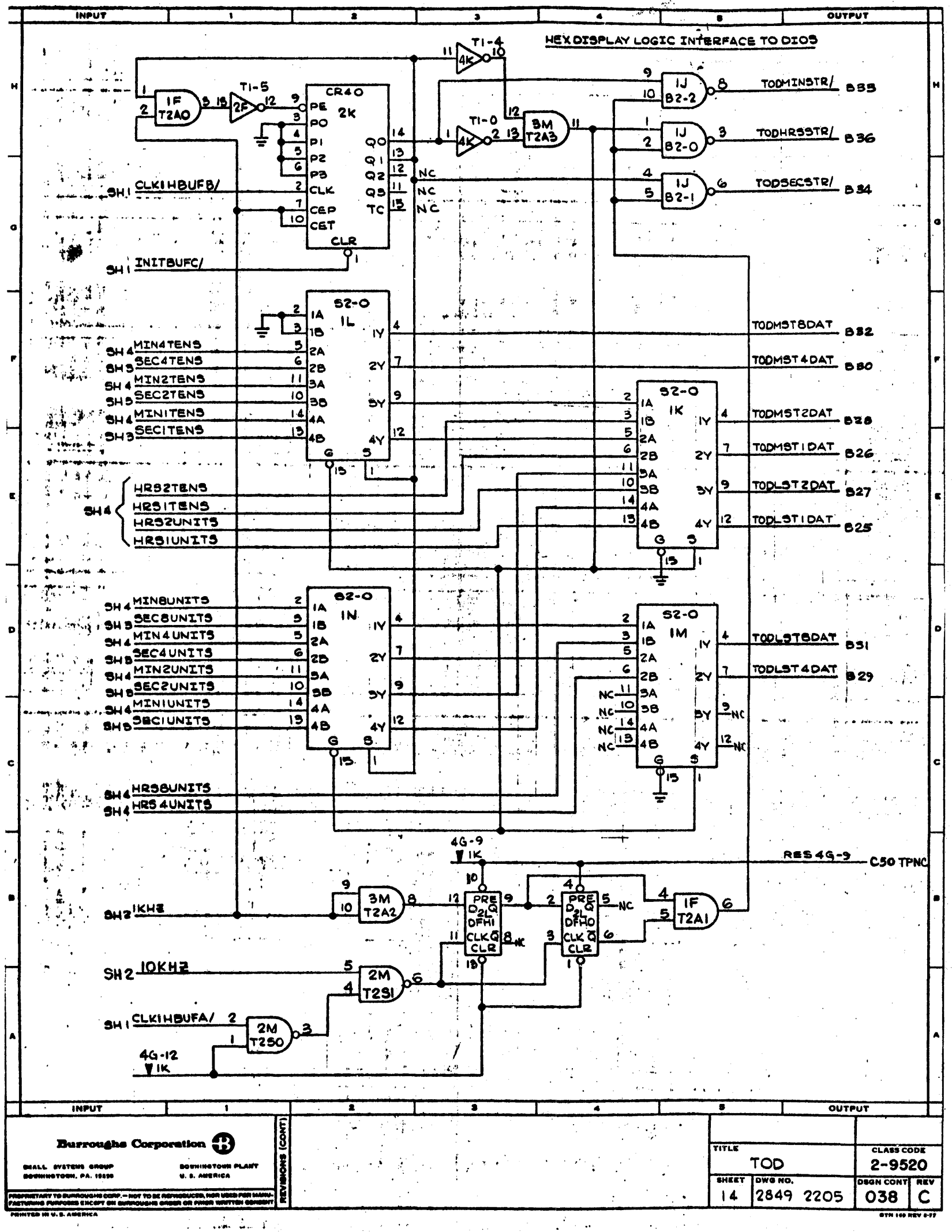
SMALL SYSTEMS GROUP, DOWNINGTOWN, PA. 19335 — DOWNINGTOWN PLANT, U.S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
13	2849 2205	038	A

DTR 100 REV 0-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

PRINTED IN U.S. AMERICA

REVISIONS (CONT)

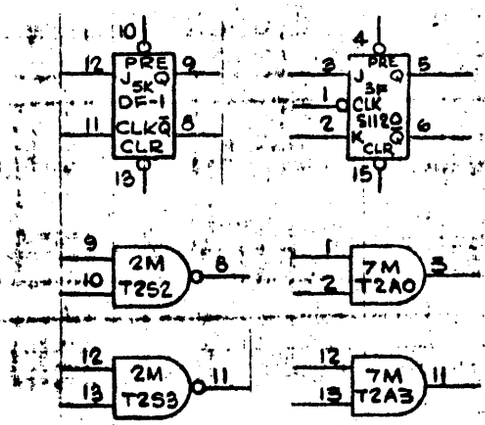
TITLE	CLASS CODE
TOD	2-9520

SHEET	DWG NO.	DSGN CONT	REV
14	2849 2205	038	C

STN 100 REV 0-77

INPUT				1				2				3				4				5				OUTPUT
LOC	CODE	PART NO.	SH (S) NO.		LOC	CODE	PART NO.	SH (S) NO.		LOC	CODE	PART NO.	SH (S) NO.		LOC	CODE	PART NO.	SH (S) NO.		LOC	CODE	PART NO.	SH (S) NO.
1A	B2CN	1447 3581	13		1E	T2AH	2602 7342	1,13		1F	T2AN	1447 3524	1,9,14		1I	TIHN	1479 7971	1,2,6		1J	B2-N	1447 9596	11,14
2A	S2SN	2600 4937	13		2E	DCBN	1449 2581	5		2F	TI-N	1447 3532	5,11,14		2I	B4HN	1447 3631	1		2J	T2HN	1479 0240	1,2
3A	S4-N	1447 3714	12		3E	S112	2602 7417	11		3F	S112	2602 7417	9,15		3I	CR4N	1447 3771	2		3J	CR4N	1447 3771	2
4A	S2R2	1449 2029	10		4E	CR45	2602 7383	11		4F	CR45	2602 7383	11		4I	DFHN	1447 3623	6,9		4J	T2HN	1479 0240	6,8
5A	S2R2	1449 2029	10		5E	T3AH	1447 3557	10,11		5F	T2AN	1447 3524	6,9,11		5I	DCBN	1449 2581	6		5J	FDTN	2601 2740	7
6A	T2NN	2600 4911	3		6E	T3AH	1447 3557	3,4		6F	T2HN	1479 0240	4,8		6I	FDTN	2601 2740	6		6J	T4HN	1479 0265	7,9
7A	CR4N	1447 3771	3		7E	CR4N	1447 3771	4		7F	CR4N	1447 3771	4		7I	FDTN	2601 2740	6		7J	T2NN	2600 4911	7,9
1B	B2CN	1447 3581	13		1F	T2AN	1447 3524	1,9,14		1G	TITS	2602 7292	1		1J	B2-N	1447 9596	11,14		1K	S2-N	1447 3797	14
2B	S2SN	2600 4937	13		2F	TI-N	1447 3532	5,11,14		2G	DFHN	1447 3623	1,7		2J	T2HN	1479 0240	1,2		2K	CR4N	1447 3771	14
3B	S4-N	1447 3714	12		3F	S112	2602 7417	9,15		3G	CR4N	1447 3771	2		3J	CR4N	1447 3771	2		3K	T3HN	1486 8780	2
4B	S2R2	1449 2029	10		4F	CR45	2602 7383	11		4G	RMOD	1737 0198	1,2,6,7,8,9,10,11,13,14		4J	T2HN	1479 0240	6,8		4K	TI-N	1447 3532	6,8,14
5B	S2R2	1449 2029	11		5F	T2AN	1447 3524	6,9,11		5G					5J	FDTN	2601 2740	7		5K	DF-N	1447 3607	8,15
6B	T3AH	1447 3557	3		6F	T2HN	1479 0240	4,8		6G	T3AH	1447 3557	4,9		6J	T4HN	1479 0265	7,9		6K	FDTN	2601 2740	9
7B	CR4N	1447 3771	3		7F	CR4N	1447 3771	4		7G	CR4N	1447 3771	4		7J	T2NN	2600 4911	7,9		7K	T2NN	2600 4911	9
1C	T2AN	1447 3524	5,13		1G	TITS	2602 7292	1		1H	T3AH	1447 3557	1,2,9		1K	S2-N	1447 3797	14		1L	S2-N	1447 3797	14
2C	TI-N	1447 3532	5,13		2G	DFHN	1447 3623	1,7		2H	T2HN	1479 0240	1,13		2K	CR4N	1447 3771	14		2L	DFHN	1447 3623	14
3C	S4-N	1447 3714	12		3G	CR4N	1447 3771	2		3H	CR4N	1447 3771	2		3K	T3HN	1486 8780	2		3L	TIHN	1479 7971	2,6
4C	S2R2	1449 2029	11		4G	RMOD	1737 0198	1,2,6,7,8,9,10,11,13,14		4H					4K	TI-N	1447 3532	6,8,14		4L	CR4N	1447 3771	8
5C					5G					5H	TIHN	1479 7971	4,6		5K	DF-N	1447 3607	8,15		5L	CR4N	1447 3771	8
6C					6G	T3AH	1447 3557	4,9		6H	T2AH	2602 7342	4,6		6K	FDTN	2601 2740	9		6L	FDTN	2601 2740	8
7C	CR4N	1447 3771	3		7G	CR4N	1447 3771	4		7H	CR4N	1447 3771	4		7K	T2NN	2600 4911	9		7L	T2NN	2600 4911	8
1D	T2AN	1447 3524	5		1H	T3AH	1447 3557	1,2,9		2H	T2HN	1479 0240	1,13		1L	S2-N	1447 3797	14		1M	S2-N	1447 3797	14
2D	TIHN	1479 7971	5,9		2H	T2HN	1479 0240	1,13		3H	CR4N	1447 3771	2		2L	DFHN	1447 3623	14		2M	T2SN	2600 1487	14,15
3D	S4-N	1447 3714	12		3H	CR4N	1447 3771	2		4H					3L	TIHN	1479 7971	2,6		3M	T2AN	1447 3524	8,14
4D	S2R2	1449 2029	11		4H					5H	TIHN	1479 7971	4,6		4L	CR4N	1447 3771	8		4M	CR4N	1447 3771	8
5D	S2R2	1449 2029	10		5H	TIHN	1479 7971	4,6		6H	T2AH	2602 7342	4,6		5L	CR4N	1447 3771	8		5M	CR4N	1447 3771	8
6D	T2NN	2600 4911	4		6H	T2AH	2602 7342	4,6		7H	CR4N	1447 3771	4		6L	FDTN	2601 2740	8		6M	FDTN	2601 2740	8
7D	CR4N	1447 3771	3		7H	CR4N	1447 3771	4							7L	T2NN	2600 4911	8		7M	T2AN	1447 3524	9,11,15
															1M	S2-N	1447 3797	14		1N	S2-N	1447 3797	14
															2M	T2SN	2600 1487	14,15		2N	S1	2851 3620	1,2,6
															3M	T2AN	1447 3524	8,14			C1-C12	2848 3956	13
															4M	CR4N	1447 3771	8					
															5M	CR4N	1447 3771	8					
															6M	FDTN	2601 2740	8					
															7M	T2AN	1447 3524	9,11,15					
															1N	S2-N	1447 3797	14					
															2N	S1	2851 3620	1,2,6					
																C1-C12	2848 3956	13					

UNUSED LOGIC



NOTES:

1. FOR ASSEMBLY SEE 2849 2122.
2. ⊥ INDICATES PULL-UP RESISTOR.
3. CLOSE SWITCHES S1-1 THROUGH S1-6 FOR SYSTEM OPERATION. OPEN SWITCHES ONLY DURING AUTOMATIC CARD TESTING.

INPUT 1 2 3 4 5 OUTPUT

REVISIONS (CONT)

TITLE: TOD
CLASS CODE: 2-9520
SHEET: 15
DWG NO.: 2849 2205
DSGN CONT: 038
REV: D

PART NUMBER	DOC TYPE	DESCRIPTION	PART STAT	DWG SIZE	MPL REV	DWG REV	U/M	CLASS CODE	DOC CODE	ER NO	ECN NO	DSGN CNTL
2849 7071	PL	CCA ICO1	ACT	C	E	B	EA	2-7345-000	2	138062	9161	30

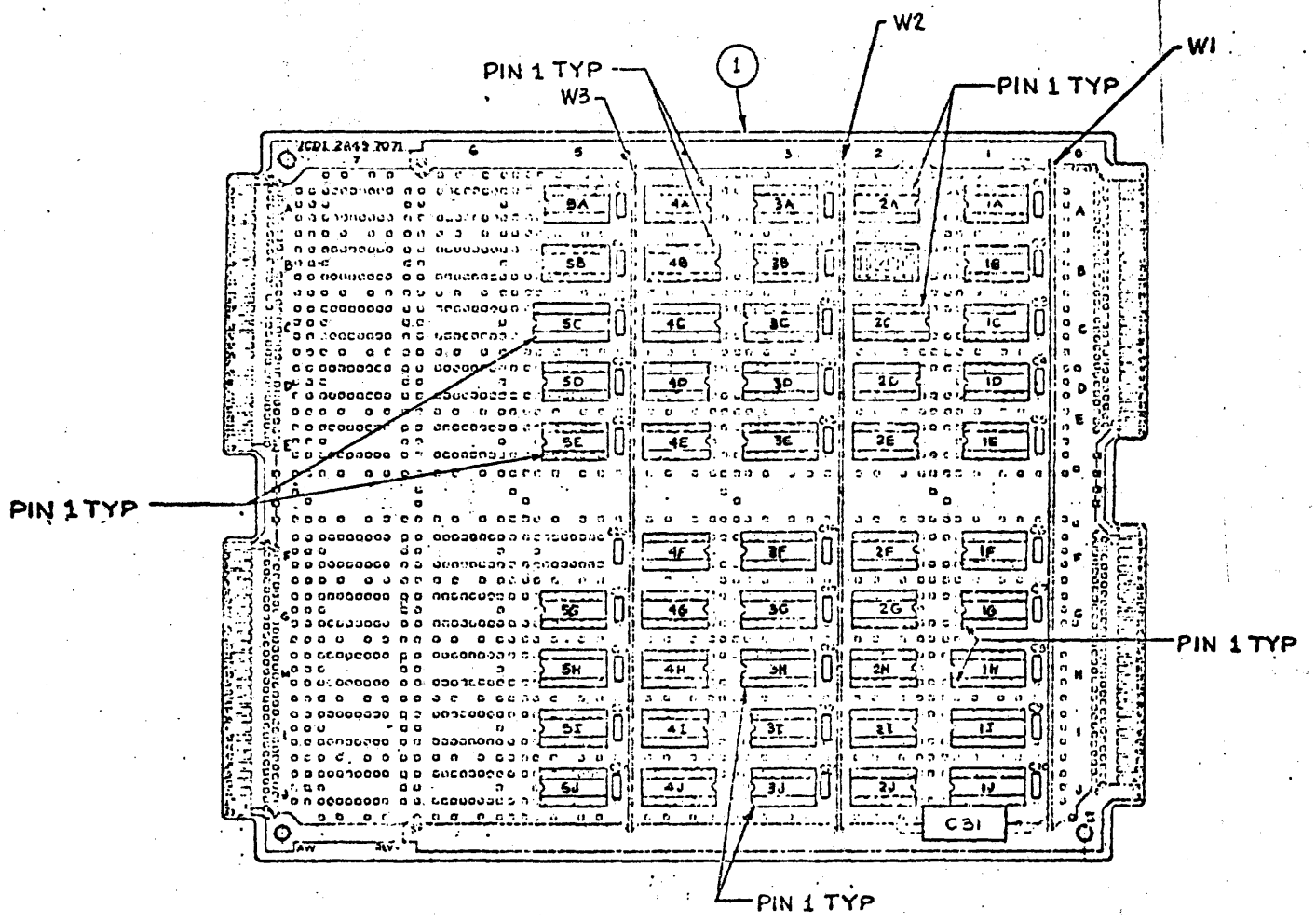
ITEM	PART NUMBER	DESCRIPTION	DOC TYPE	DWG SIZE	DWG REV	D C	SL IN	SL OUT	QTY	U/M	ECN NO	NARRATIVE	
21	1267 9270	CAPACITOR	SD	A		0	1		1.00	EA		C31	1
26	1446 3244	ELEC CONNSSPEC		A		4	1			RF			
25	1446 6585	SOLDER TINALLOY	SD	A		0	1			AR			
2	1447 3516	IC T2-N CPRL	ST	A		0	1		7.00	EA		1F,2G,3J,4E,4G,5G,5J	1
3	1447 3524	IC T2AN CPRF TTL	ST	A		0	1	81	7.00	EA	7539	1C,2J,3A,3B,4I,5E,5J	1
3	1447 3524	IC T2AN CPRF TTL	ST	A		0	82		8.00	EA	7539	1C,2J,3A,3B,4I,5E,5J,1E	1
4	1447 3532	IC T1-N CPRF TTL	ST	A		0	1	81	4.00	EA	7539	1B,3I,4A,4D	1
4	1447 3532	IC T1-N CPRF TTL	ST	A		0	82		5.00	EA	7539	1B,3I,4A,4D,2E	1
5	1447 3540	IC T3-N CPRF TTL	ST	A		0	1	81	1.00	EA	7539	5A	1
5	1447 3540	IC T3-N CPRF TTL	ST	A		0	82		2.00	EA	7539	5A,2I	1
6	1447 3565	IC T4-N CPRF TTL	ST	A		0	1		1.00	EA		5H	1
7	1447 3581	IC B2CN CPRF TTL	ST	A		0	1		1.00	EA		2A	1
8	1447 3607	IC DF-N CPRF TTL	ST	A		0	1		2.00	EA		2F,4H	1
9	1447 3615	IC JF-N CPRF TTL	ST	A		0	1		2.00	EA		1G,2H	1
10	1447 3771	IC CR4N CPRF TTL	ST	A		0	1		5.00	EA		1H,1I,3F,3G,3H	1
27	1447 5289	CO DET INF		A		4	1			RF		U/M IT 1	1
11	1449 1260	IC DREN CPRF TTL	ST	A		0	1		2.00	EA		3C,5C	1
12	1479 7971	IC T1HN CPRF TTL	ST	A		0	1	81	4.00	EA	7539	1J,2E,4F,5B	1
13	1486 6760	IC T3HN CPRF TTL	ST	A		0	1	81	1.00	EA	7539	2I	1
14	1674 4963	IC IHDN CPRF TTL	ST	A		0	1		1.00	EA		1A	1
19	1737 6198	IC RES MOD	SD	A		0	1		1.00	EA		4J	1
12	2600 1495	IC T1SN CPRF TTL	ST	A		0	82		3.00	EA	7539	1D,4F,5B	1
16	2600 1545	IC CC3S CPRF TTL	ST	A		0	1		4.00	EA		1J,2C,3D,3E	1
15	2600 4911	IC T2NN CPRF TTL	ST	A		0	1		2.00	EA		2D,5D	1
17	2602 7342	IC T2AH CPRF TTL	ST	A		0	1	81	1.00	EA	7539	1E	1
18	2608 2073	IC,TTL	SD	A		0	1		2.00	EA		4B 4C	1
22	2608 9102	SOCKET 14 PIN	SD	A		0	1	94	34.00	EA	9041	U/M IT 2-9 12-15 17	1
23	2608 9110	SOCKET 16 PIN	SD	A		0	1	94	14.00	EA	9041	U/M IT 10 11 16 18 19	1
20	2848 3956	CAPACITOR	SD	A		0	1		30.00	EA		C1-C30	1
24	2849 5786	BUS BAR 10 IC PC	SD	D		0	1	81	4.00	EA	7932		
24	2849 5786	BUS BAR 10 IC PC	SD	D		0	82		3.00	EA	7932	W1 W2 W3	1

PART NUMBER	DOC TYPE	DESCRIPTION	PART STAT	DWG SIZE	MPL REV	DWG REV	U/M	CLASS CODE	DOC CODE	ER NO	ECN NO	DSGN CNTL
2849 7071	PL	CCA ICO1	ACT	C	E	B	EA	2-7345-000	2	138062		

ITEM	PART NUMBER	DESCRIPTION	DOC TYPE	DWG SIZE	DWG REV	D C	SL IN	SL OUT	QTY	U/M	ECN NO	NARRATIVE	
1	2849 7089	PWBA ICO1	PL	D		2	1	87	1.00	EA	7933		
28	2849 7121	LD ICO1	TF	C	D	3	1			RF		FOR FREE STANDING ONLY	1
29	2851 3620	HOOPLE,SW-N	SD	A		0	82		1.00	EA	7539	2B	1
1	2851 8165	PWBA ICO1	PL	D		2	88		1.00	EA	7933		
22	2853 5706	SOCKETS	SD			0	95		34.00	EA	9041	U/M IT 2-9 12-15 & 17	1
23	2853 5714	SOCKETS	SD			0	95		14.00	EA	9041	U/M IT 10 11 16 18 & 19	1

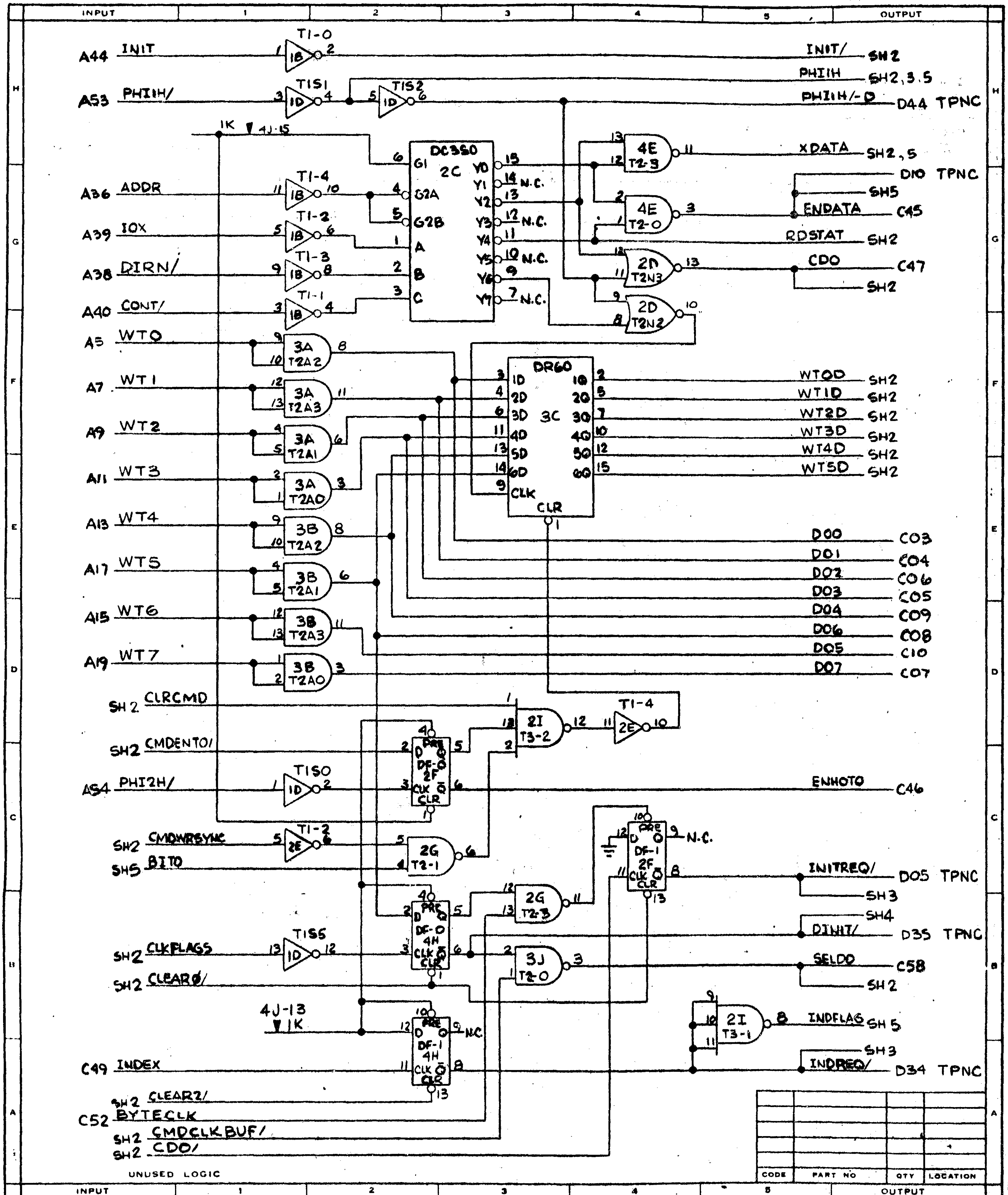
******LAST LINE******

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
A	REL EO 138R62	12-6	78



DWG NO. 2849 7071

TOLERANCES UNLESS OTHERWISE NOTED .XXX ± — .XX ± — ANGLES ± — ° —	DRAWN RTGORMAN	DATE 11-7-78	GEN DUAL SPEC 1183 3543 APPLY	DSCN CONT 038
MATERIAL	CHECKED	DATE	Burroughs Corporation	
HEAT TREATMENT	ENGR OR ENGR	DATE	SMALL SYSTEMS GROUP DOWNINGTOWN PA 19335	WASHINGTON PLANT U.S.A.
SURFACE TREATMENT	APPROVED	DATE	DOC TYPE SA	TITLE CIRCUIT CARD ASSY ICD1
PROPRIETARY TO BURROUGHS — NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.			CLASS CODE 2-7045	
			SCALE 1 / SHEET OF / DWG SIZE C / DWG NO. 2849 7071 / REV A	



REV	A	A	A	A	A	A
SH	1	2	3	4	5	6

Burroughs Corporation

SMALL SYSTEMS GROUP DOWNINGTOWN, PA 19335 — DOWNINGTOWN PLANT U.S. AMERICA

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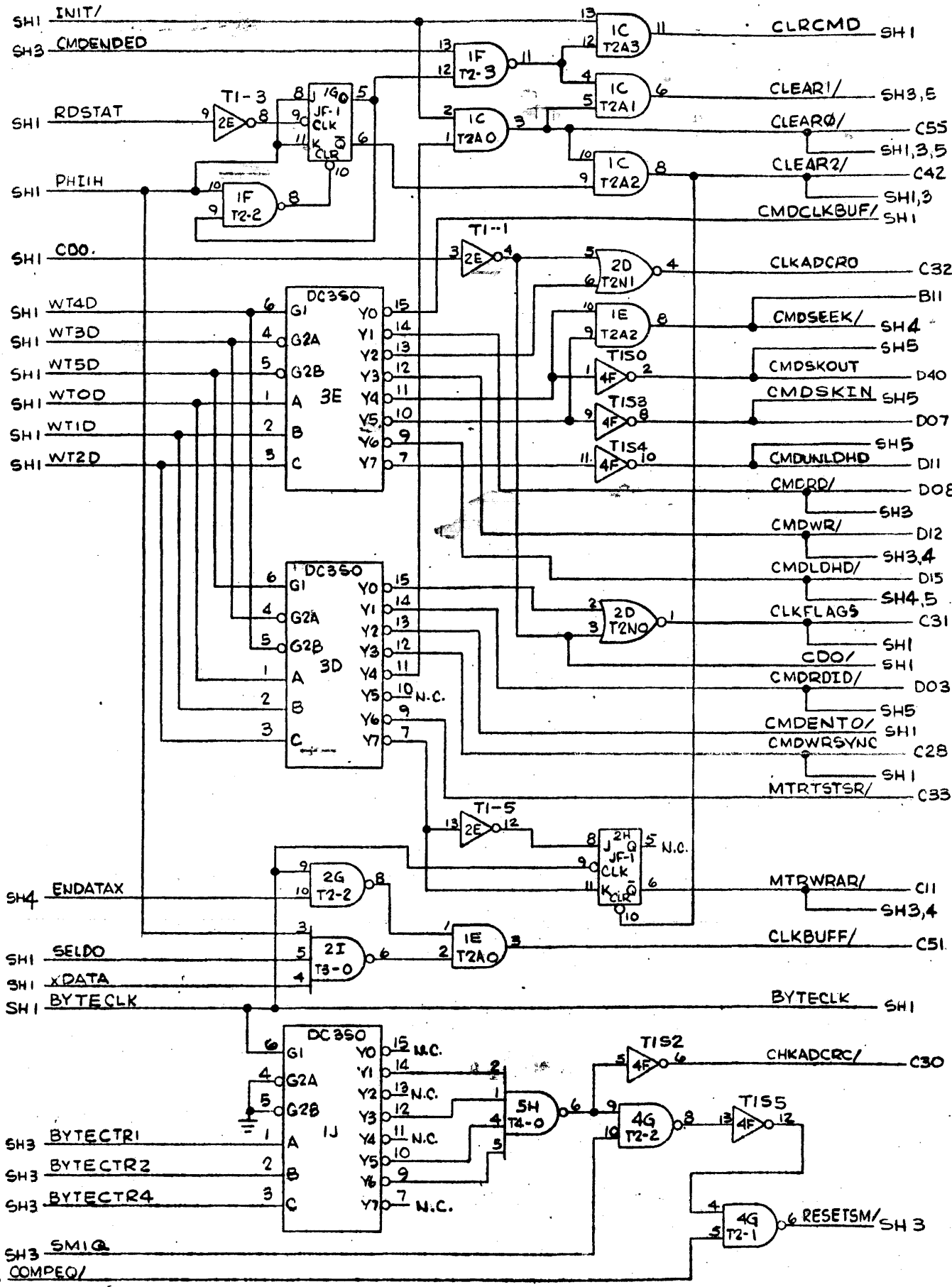
REVISIONS: A

DRAWN F. Quinn	DATE 3-27-78	TITLE ICDI
CHECKED R. Duff	DATE 5-10-78	CLASS CODE 2-9520
DSGN ENGINEER	DATE 12-5-78	
APPROVED	DATE 12-5-78	

SHEET	DWG NO.	PLT NO.	REV
1 of 6	2849 7121	038	A

BRUNING 44-131 25507-2

DTN 96 REV 5-78



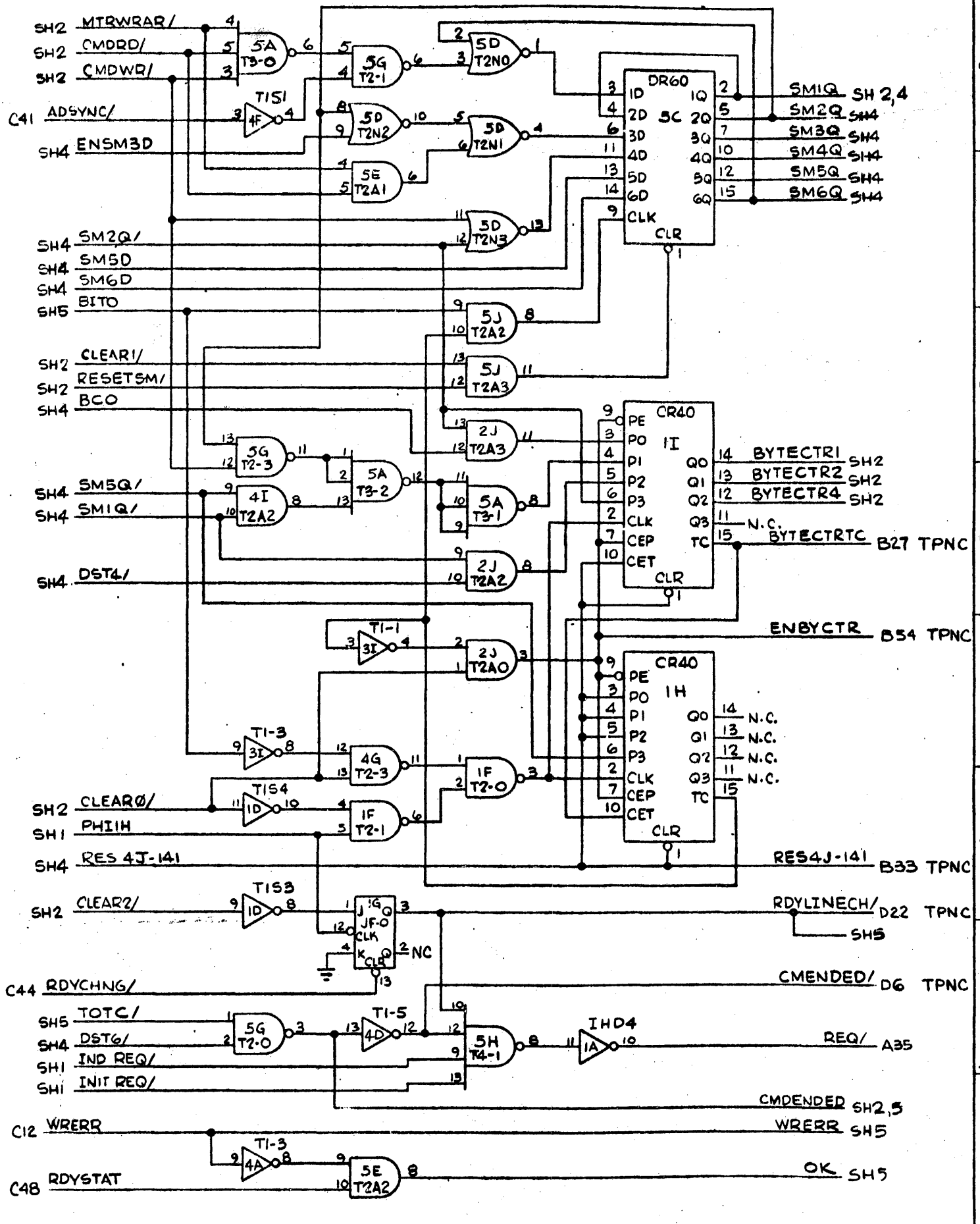
Burroughs Corporation

SMALL SYSTEMS GROUP, DOWNINGTOWN, PA 19335 — DOWNINGTOWN PLANT, U. S. AMERICA

REVISIONS (CONT)

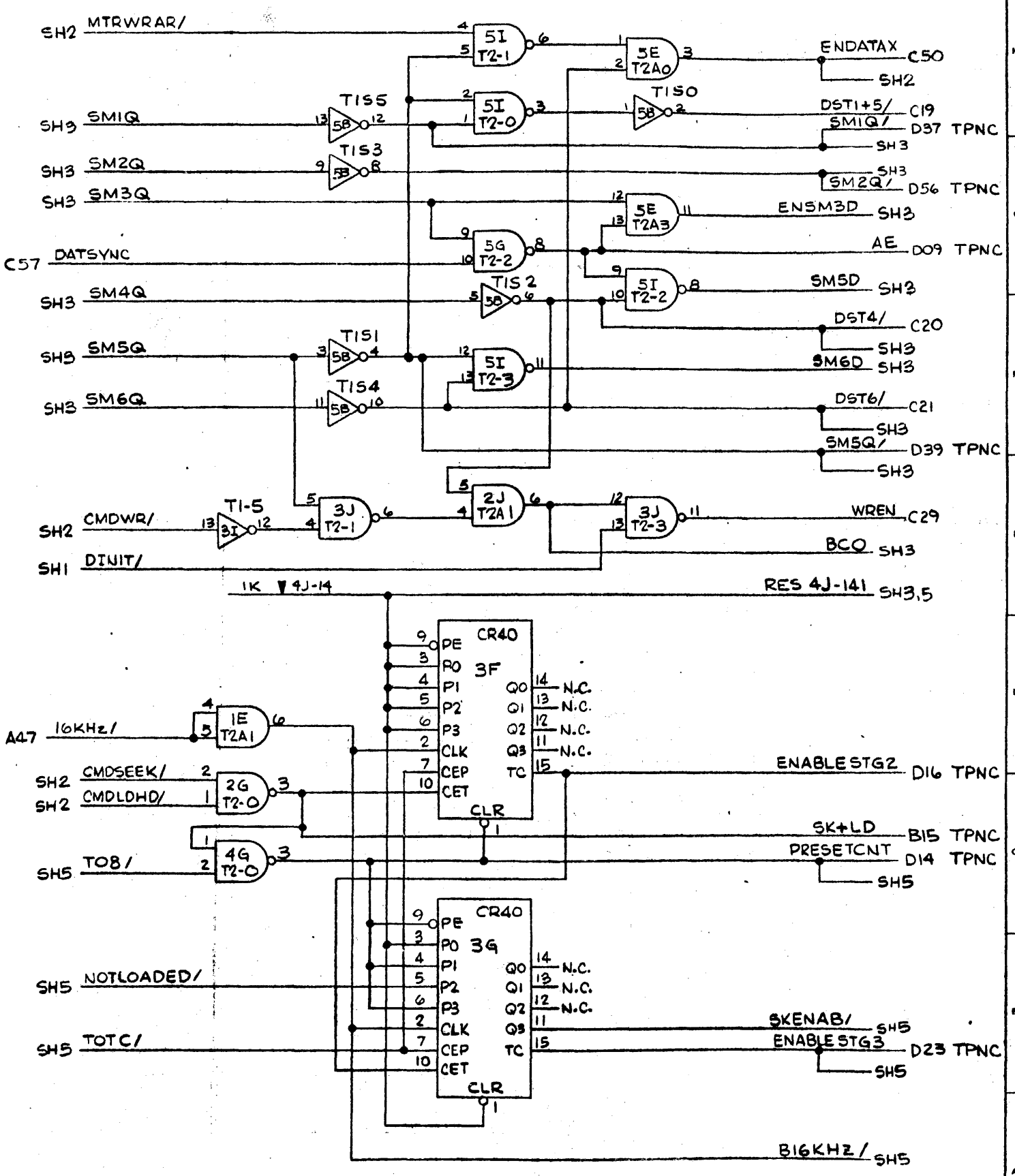
TITLE	CLASS CODE
IC D1	2-9520

SHEET	DWG NO.	DSGN CONT	REV
2	2849 7121	038	A



Burroughs Corporation	TITLE: ICD1	CLASS CODE: 2-9520	
SMALL SYSTEMS GROUP, DOWNINGTOWN, PA 19335 — DOWNINGTOWN PLANT, U.S. AMERICA	SHEET: 3	DWG NO.: 2849 7121	DESIGN CONT: 038 — REV: A

REVISIONS (CONT)



INPUT | 1 | 2 | 3 | 4 | 5 | OUTPUT

Burroughs Corporation

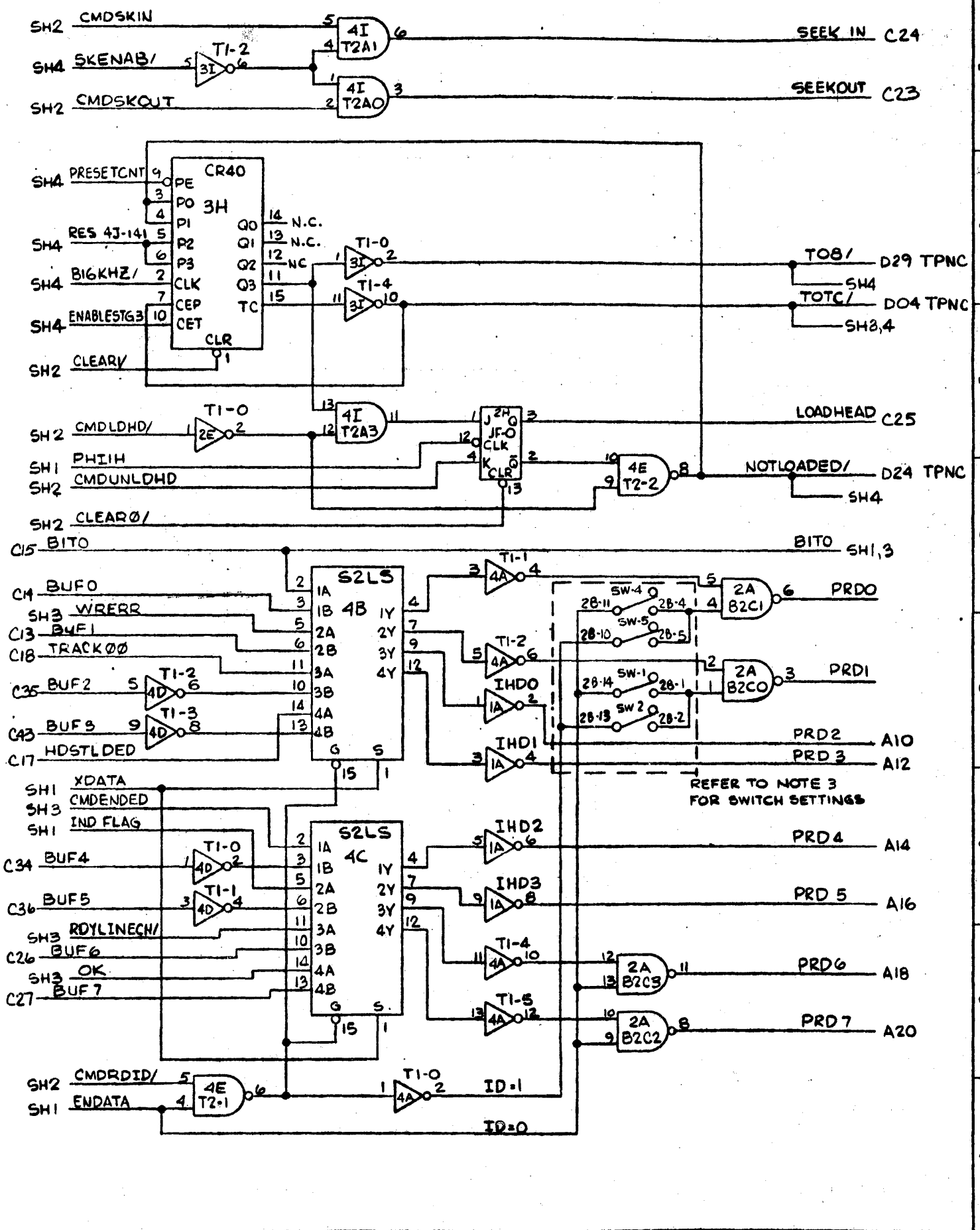
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
ICD1	2-9520

SHEET	DWG NO.	DSGN CONT	REV
4	2849 7121	038	A



Burroughs Corporation
SMALL SYSTEMS GROUP DOWNINGTOWN PLANT
DOWNINGTOWN, PA 19335 U.S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
IC D1	2-9520

SHEET	DWG NO.	DSGN CONT	REV
5	2849 7121	038	A

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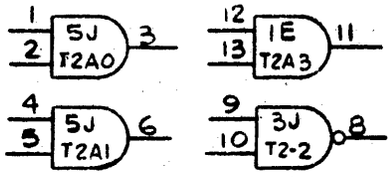
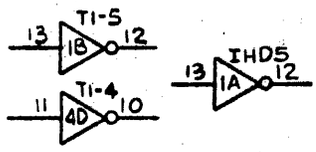
LOC	CODE	PART NO	SH(S) NO.
1A	IHDN	1674 4963	3,5,6
1B	TI-N	1447 3532	1,6
1C	T2AN	1447 3524	2
1D	TISN	2600 1495	1,3
1E	T2AN	1447 3524	2,4,6
1F	T2-N	1447 3516	2,3
1G	JF-N	1447 3615	2,3
1H	CR4N	1447 3771	3
1I	CR4N	1447 3771	3
1J	DC3SN	2600 1545	2
2A	B2CN	1447 3581	5
2B	SW-N	2851 3620	5
2C	DC3SN	2600 1545	1
2D	T2NN	2600 4911	1,2
2E	TI-N	1447 3532	1,2,5
2F	DF-N	1447 3607	1
2G	T2-N	1447 3516	1,2,4
2H	JF-N	1447 3615	2,5
2I	T3-N	1447 3540	1,2
2J	T2AN	1447 3524	3,4
3A	T2AN	1447 3524	1
3B	T2AN	1447 3524	1
3C	DR6N	1449 1260	1
3D	DC3SN	2600 1545	2
3E	DC3SN	2600 1545	2
3F	CR4N	1447 3771	4
3G	CR4N	1447 3771	4
3H	CR4N	1447 3771	5
3I	TI-N	1447 3532	3,4,5
3J	T2-N	1447 3516	1,4,6
4A	TI-N	1447 3532	3,5
4B	LS157N	2608 2073	5
4C	LS157N	2608 2073	5
4D	TI-N	1447 3532	3,5,6
4E	T2-N	1447 3516	1,5
4F	TISN	2600 1495	2,3
4G	T2-N	1447 3516	2,3,4
4H	DF-N	1447 3607	1
4I	T2AN	1447 3524	3,5
4J	RMOD	1737 0198	1,4
5A	T3-N	1447 3540	3
5B	TISN	2600 1495	4
5C	DR6N	1449 1260	3
5D	T2NN	2600 4911	3
5E	T2AN	1447 3524	3,4
5F			
5G	T2-N	1447 3516	3,4
5H	T4-N	1447 3565	2,3
5I	T2-N	1447-3516	4
5J	T2AN	1447 3524	3,6
6A			
6B			
6C			
6D			
6E			
6F			
6G			
6H			
6I			
6J			
7A			
7B			
7C			
7D			
7E			
7F			
7G			
7H			
7I			
7J			
	C1-C30	2848 3956	6
	C31	1267 9270	6



UNUSED LOGIC



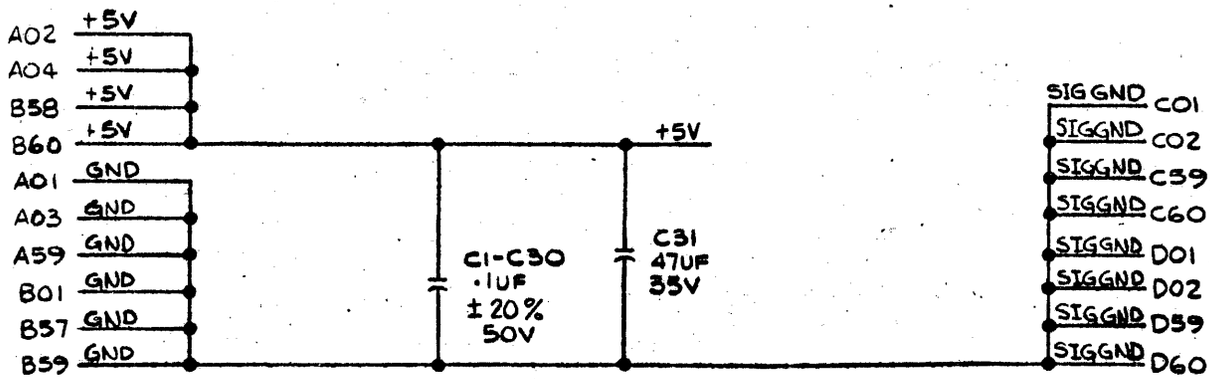
▼ 2K
4J-1
4J-2
4J-3
4J-4
4J-5
4J-6
4J-7

▼ 1K
4J-9
4J-10
4J-11
4J-12

NOTES:
1. FOR ASSEMBLY SEE 2849 7071.
2. ▼ INDICATES PULL-UP RESISTOR.
3. AT LOCATION 2B, SET SWITCHES CORRESPONDING TO THE IDENTITY CODE.

SEE NOTE 3

IDENTITY CODE	DRIVES	SWITCHES ON
3C	1	1 AND 4
3D	2	1 AND 5
3E	3	2 AND 4
3F	4	2 AND 5



REVISIONS (CONT)

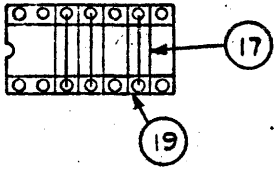
TITLE	CLASS CODE
ICD1	2-9520

SHEET	DWG NO.	DSGN CONT	REV
6	2849 7121	038	A

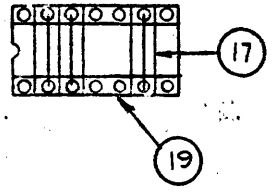
REVISIONS			
LTR	DESCRIPTION	DATE	APPD
A	REL ER 1133 R2	4-27-79	
B	ECN 8880A	9-5-79	
C	ECN 9076A	8-6-79	
D	ECN 9223A	11-16-79	
E	ECN 9281A	2-5-80	

JUMPER OPTION

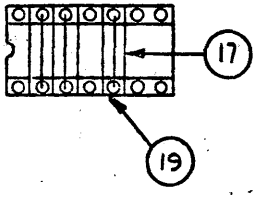
FOR ASSY NO. 2851 9809
AND 2851 9817



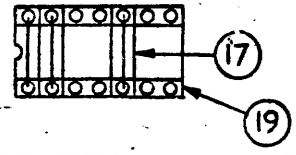
FOR ASSY 2851 9833
AND 2851 9841

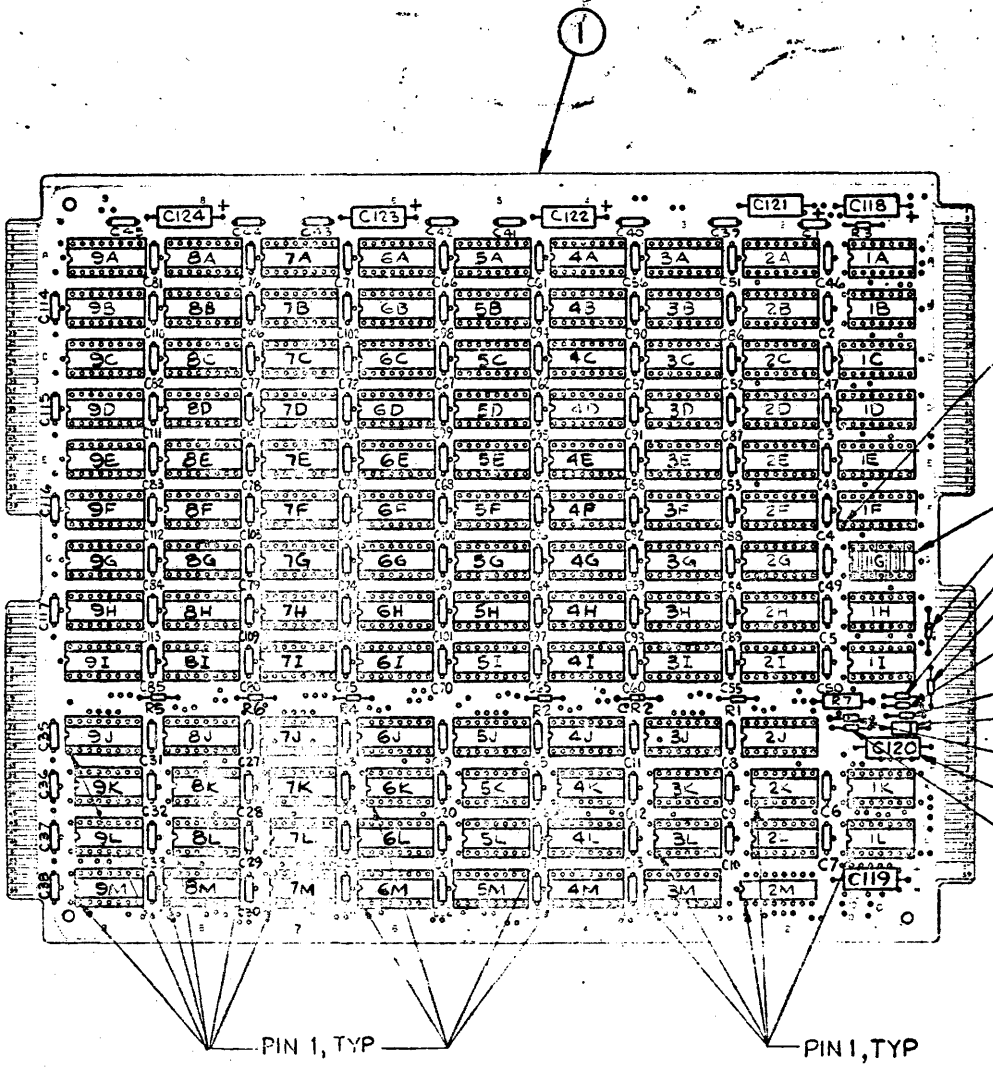


FOR ASSY 2851 9866
AND 2851 9874



FOR ASSY 2853 4154
AND 2853 4162



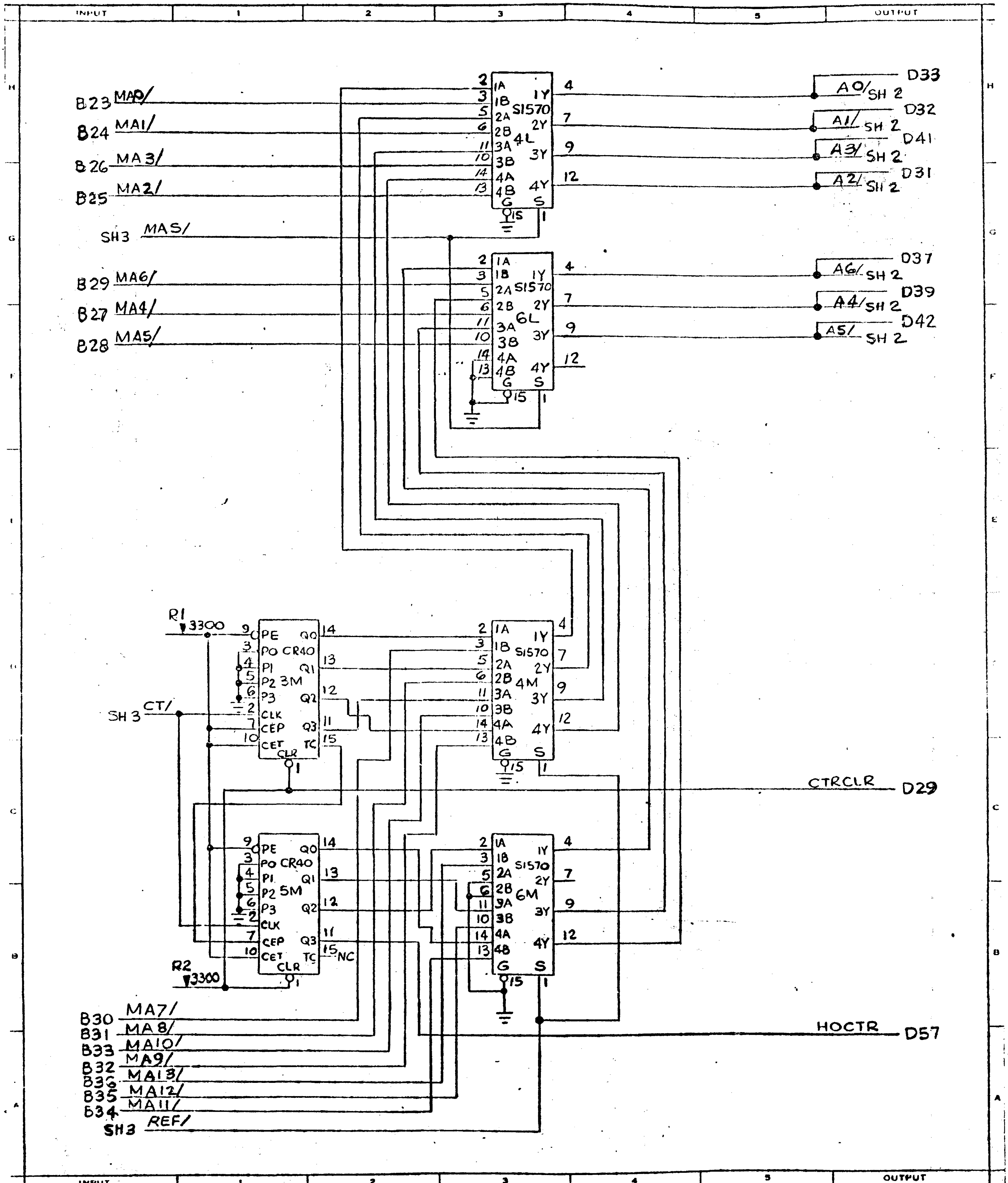


DWG NO. 2851 8231

TOLERANCES UNLESS OTHERWISE NOTED	DRAWN	DATE	GEN QUAL SPEC 1183 5543 APPLY	DSGN CONT
XXX ± — .XX ± — ANGLES ± — ° —	A. TUREK	4-3-79		038
MATERIAL	CHECKED	DATE	Burroughs Corporation	
HEAT TREATMENT	DSGN ENGR	DATE	SMALL SYSTEMS GROUP DOWNINGTOWN PA 19335 — DOWNINGTOWN PLANT U.S.A.	
SURFACE TREATMENT	APPROVED	DATE	DOC TYPE: SA — TITLE: PWBA INFO DWG - DMEM	CLASS CODE: 2-7045
PROPRIETARY TO BURROUGHS – NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PR...			SCALE: 1 — SHEET: OF — DWG SIZE: C — DWG NO: 2851 8231	REV: E

ORIGINAL

DTM-3 REV 4-78



REV	D	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	C	C
SH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

REVISIONS: A REL — B — C — D

APPROVED

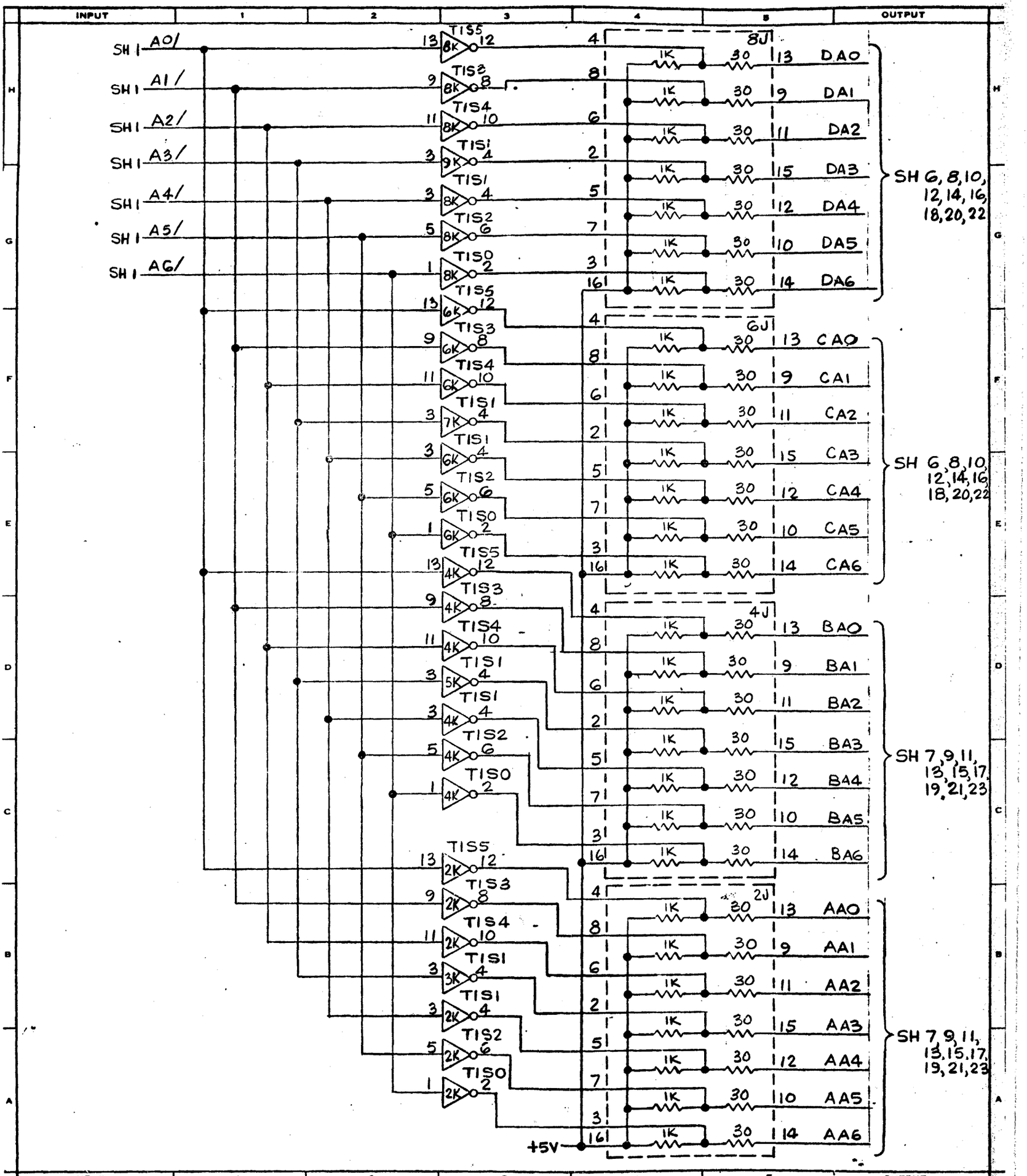
Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U.S. AMERICA

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO	DSGN CONT	REV
1 of 26	28518298	038	D



INPUT 1 2 3 4 5 OUTPUT

Burroughs Corporation

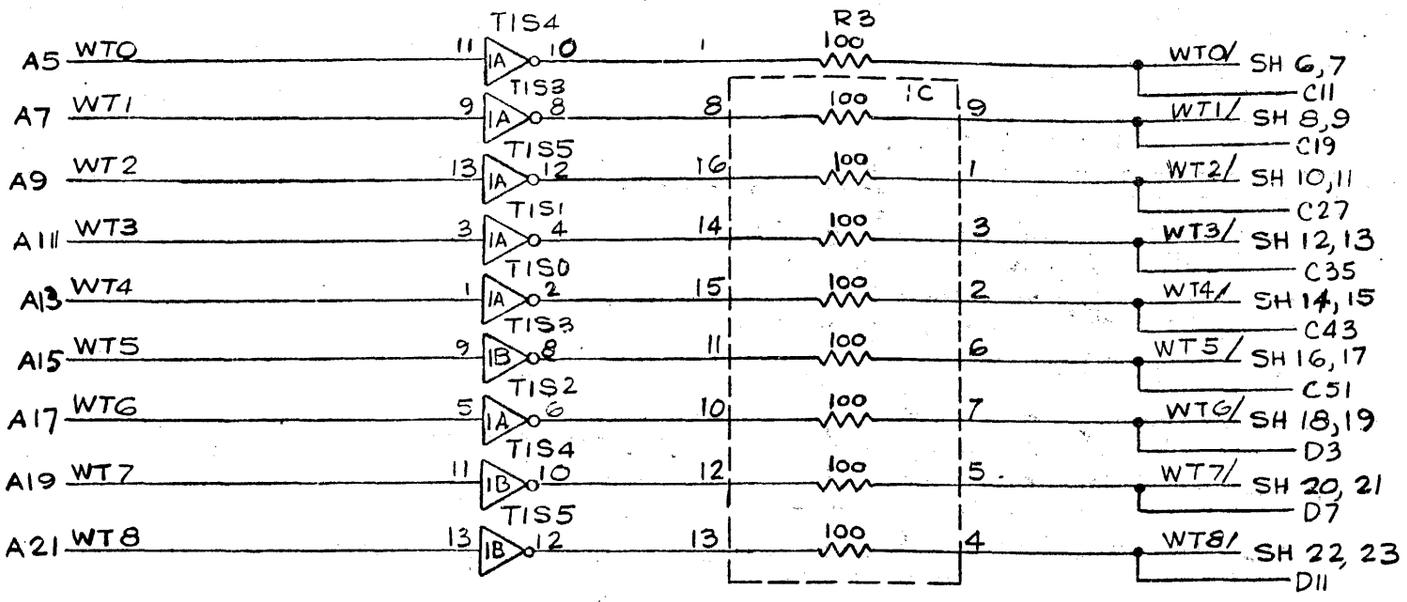
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

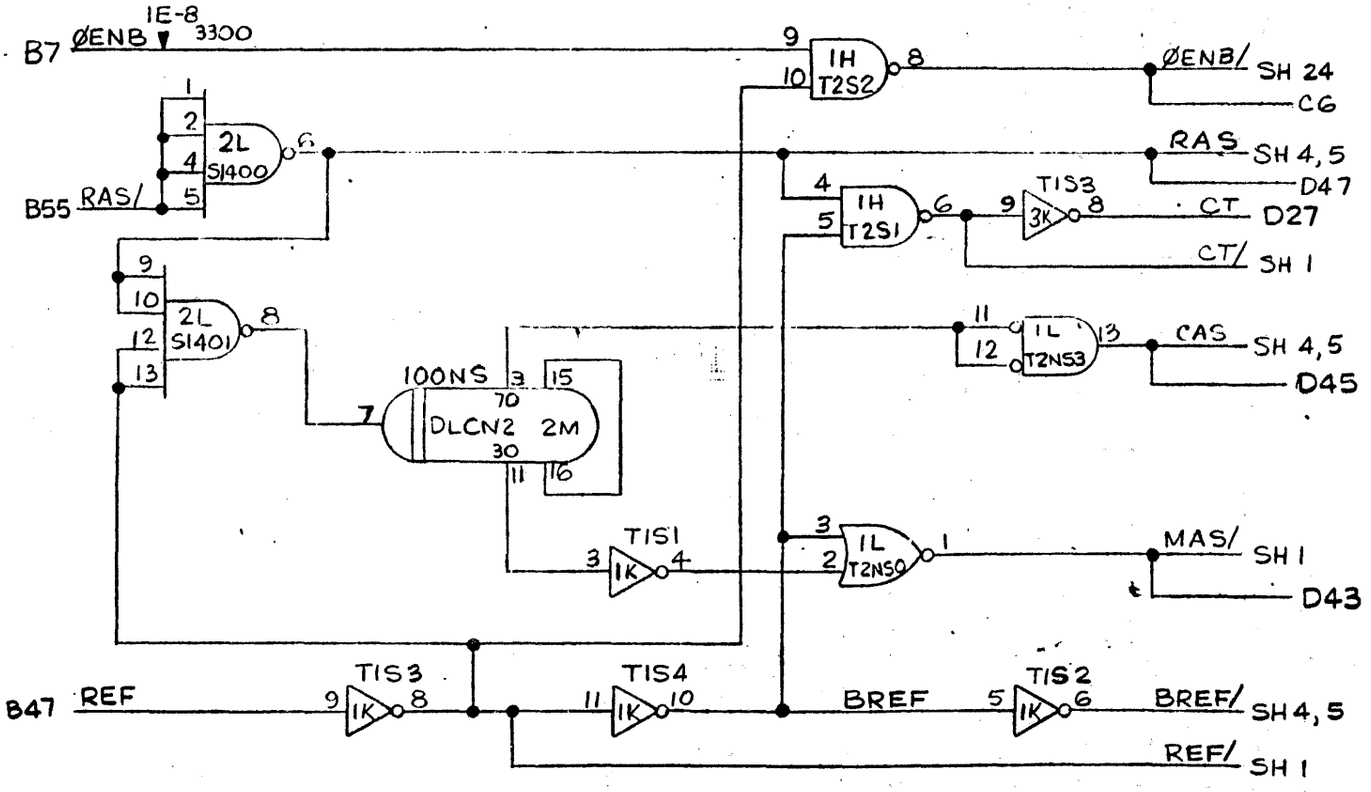
DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE		CLASS CODE
DMEM		2-9520
SHEET	DWG NO.	DSGN CONT / REV
2	2851 8298	038 / A

DTH 169 REV 9-77





Burroughs Corporation
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335
DOWNINGTOWN PLANT
U.S. AMERICA

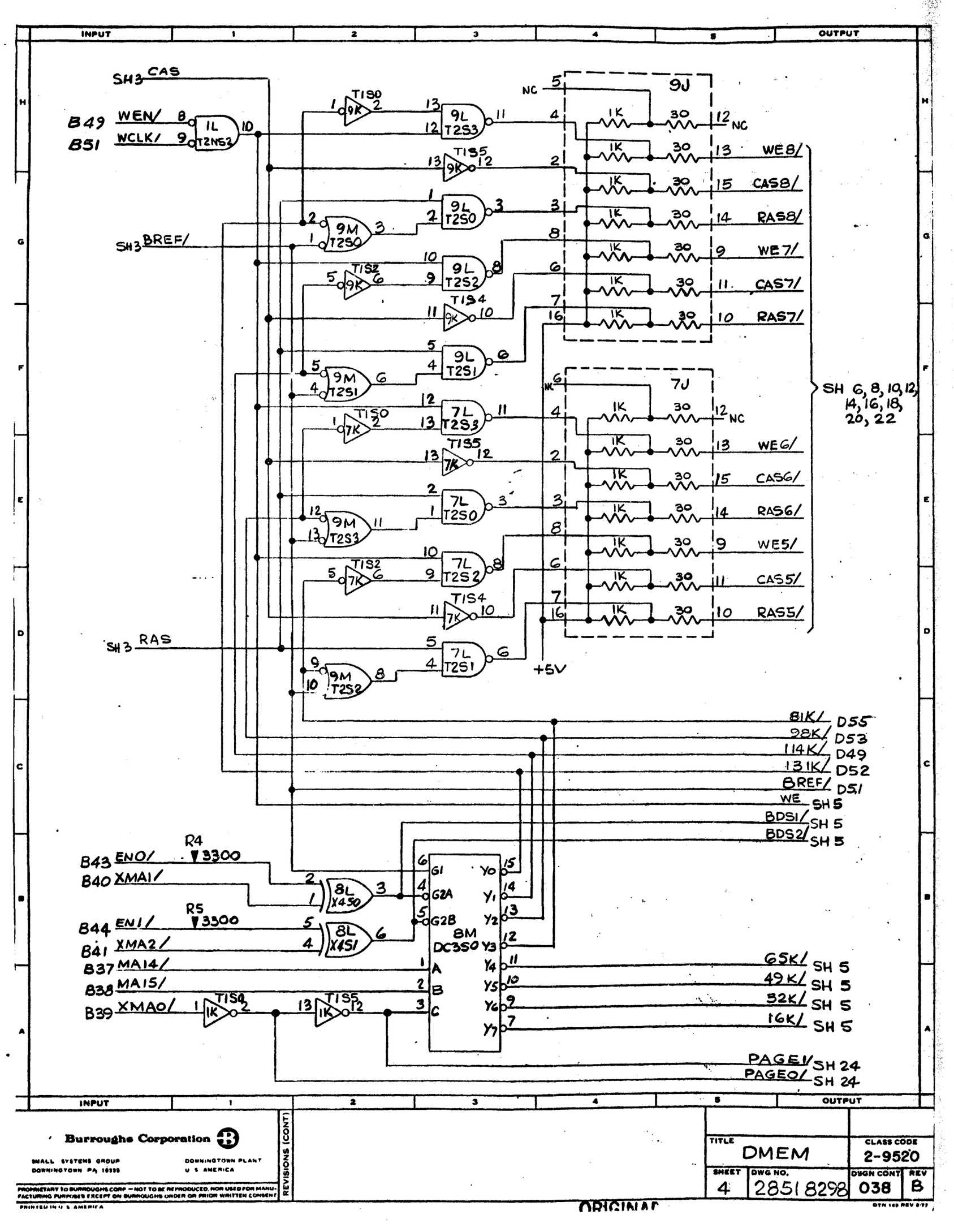
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
3	28518298	038	B

ORIGINAL

DTH 159 REV 5.77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN PA 19335

DOWNINGTOWN PLANT
U S AMERICA

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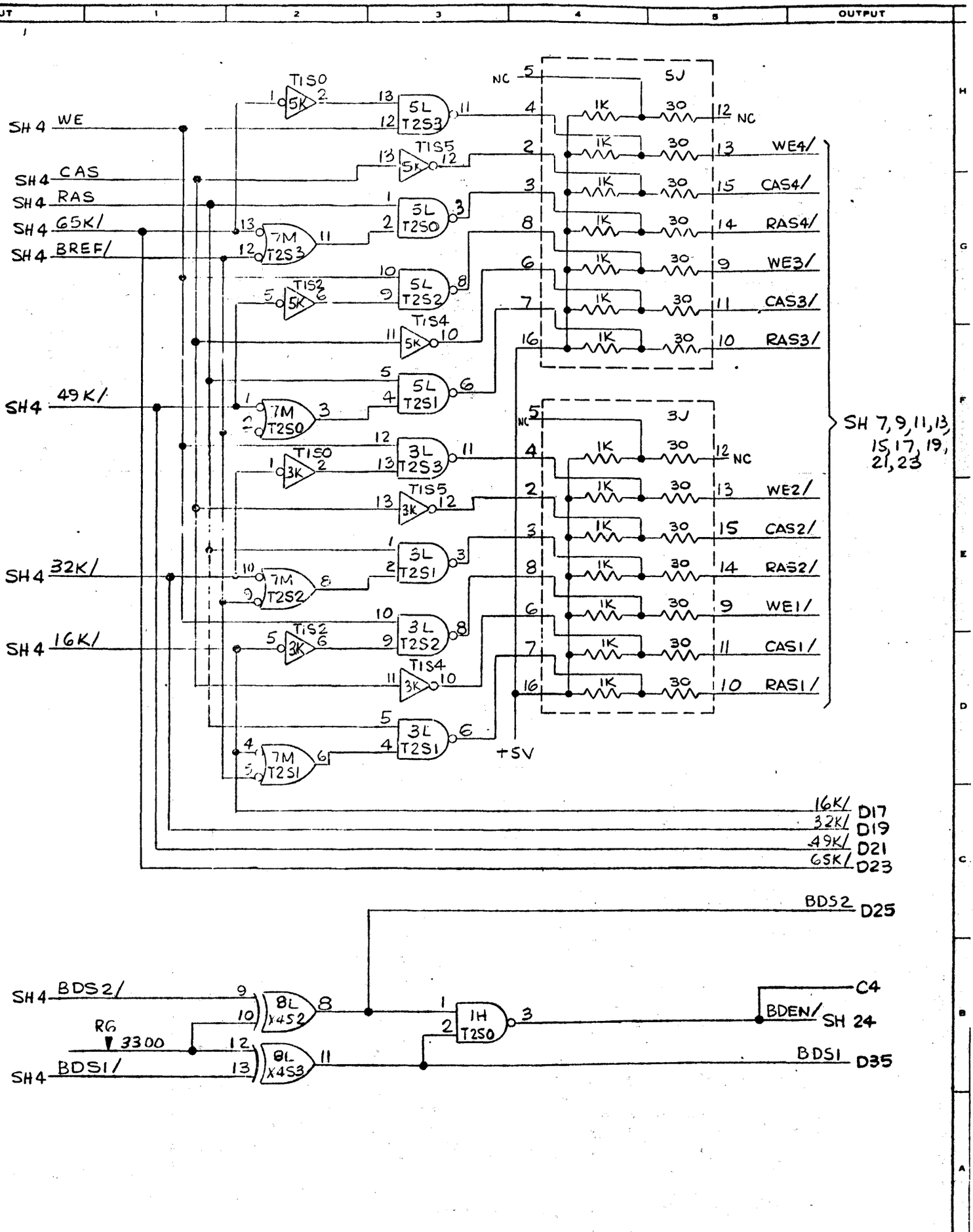
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

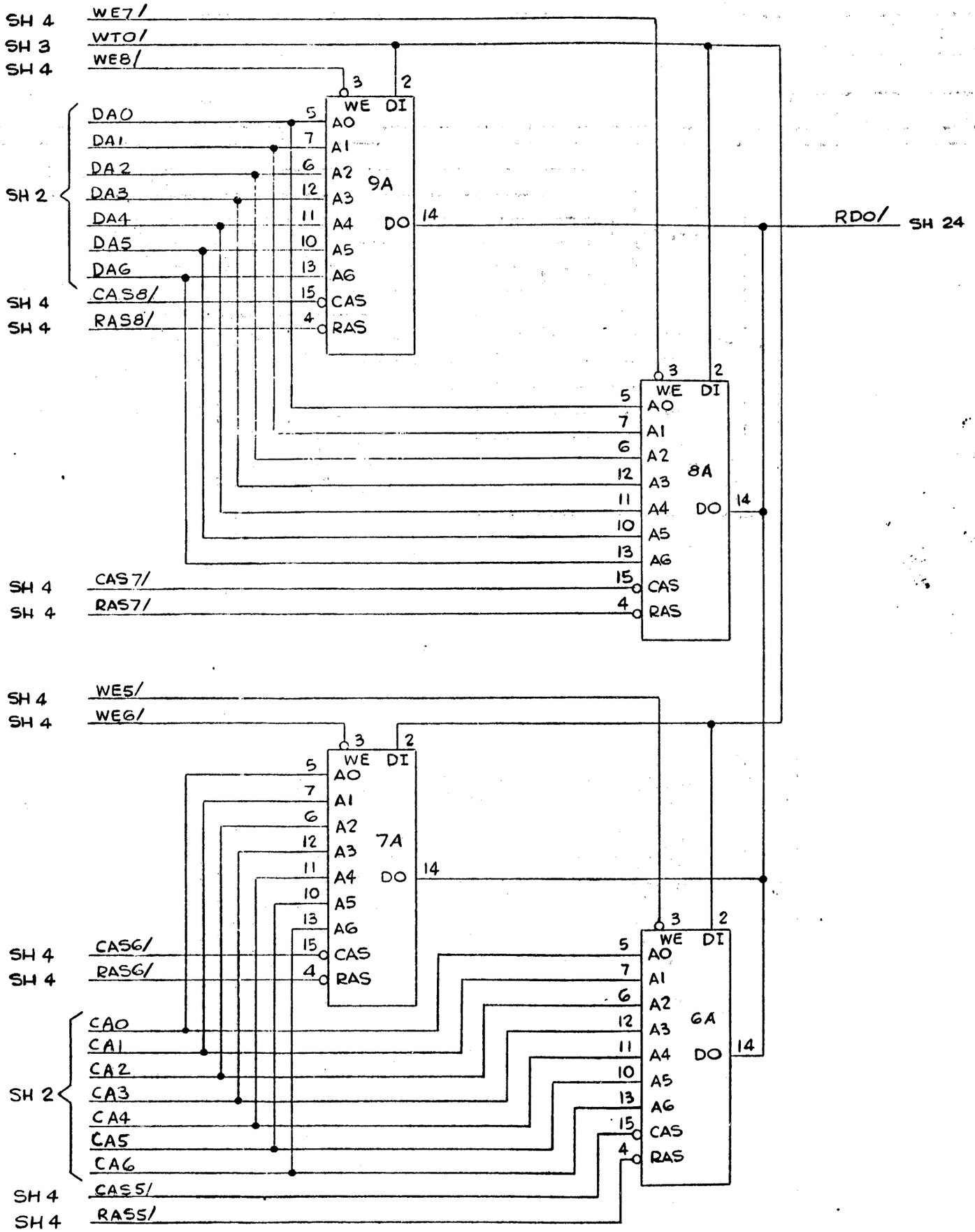
SHEET	DWG NO.	DSGN CONT	REV
4	2851 8298	038	B

ORIGINAL

DTN 160 REV 0-77



Burroughs Corporation		TITLE	DMEM	CLASS CODE	2-9520
SMALL SYSTEMS GROUP, DOWNINGTOWN PA 19335 — DOWNINGTOWN PLANT, U.S.A.	REVISIONS (CONT)	SHEET	5	DWG NO.	2851 8298
		DSGN CONT	038	REV	A



Burroughs Corporation

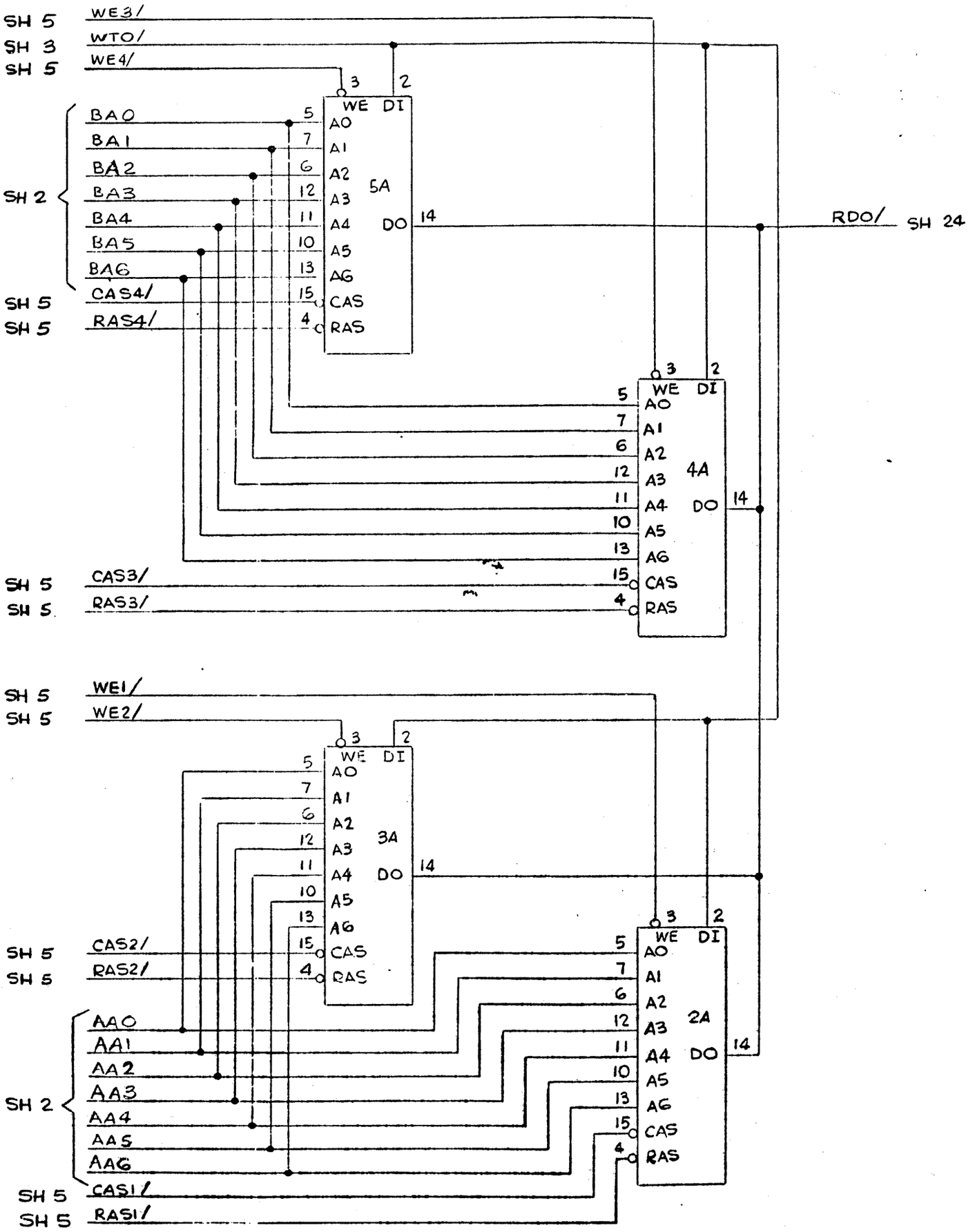
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U.S. AMERICA

REVISIONS (CONT.)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
6	2851 8298	038	A



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN PA 19335

DOWNINGTOWN PLANT
U S AMERICA

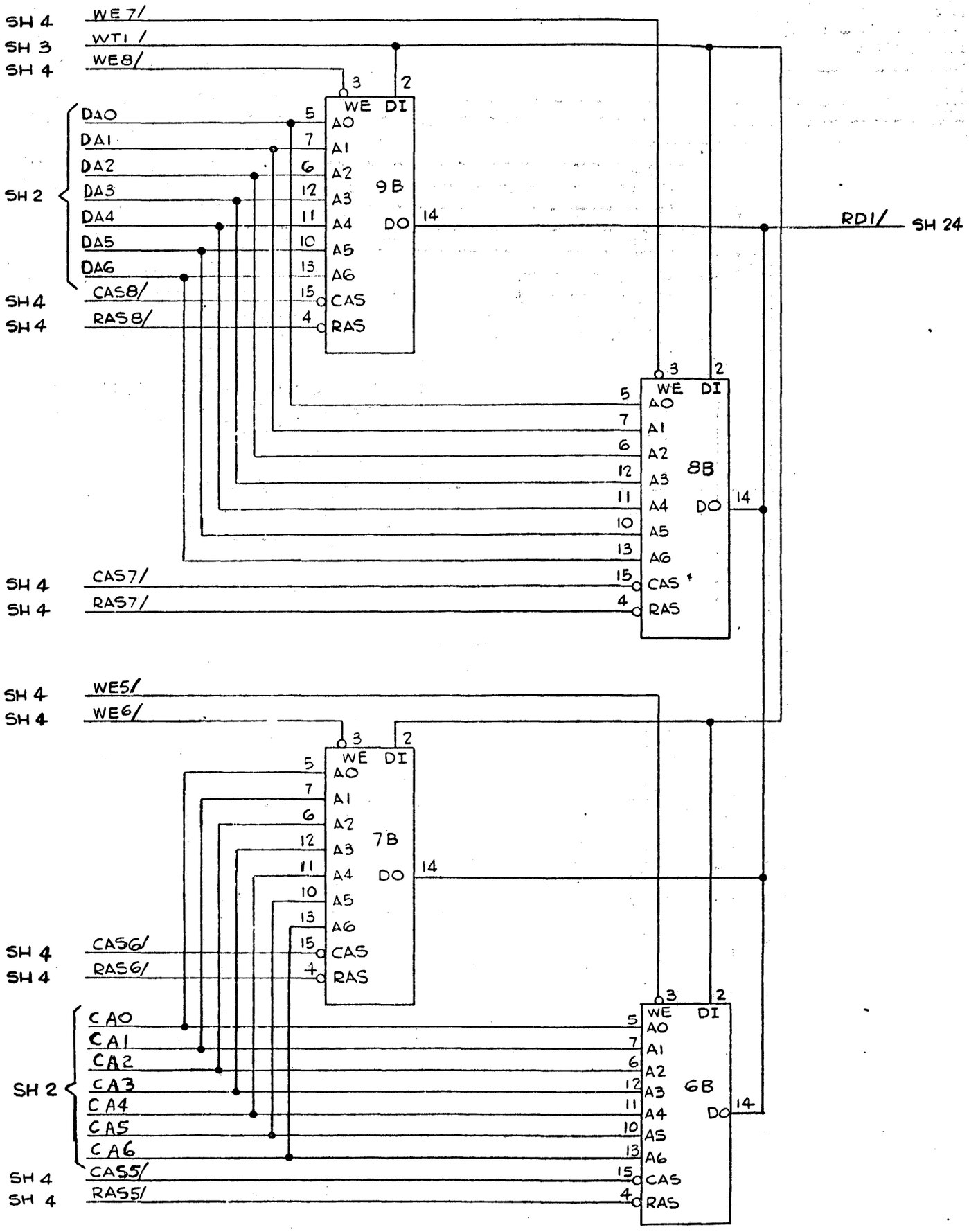
PRINTED IN U S AMERICA

REVISIONS (CONT)

TITLE		CLASS CODE
DMEM		2-9520
SHEET	DWG NO	DSGN CONT / REV
7	2851 8298	038 / A

ORIGINAL

DEN 169 REV 0-72



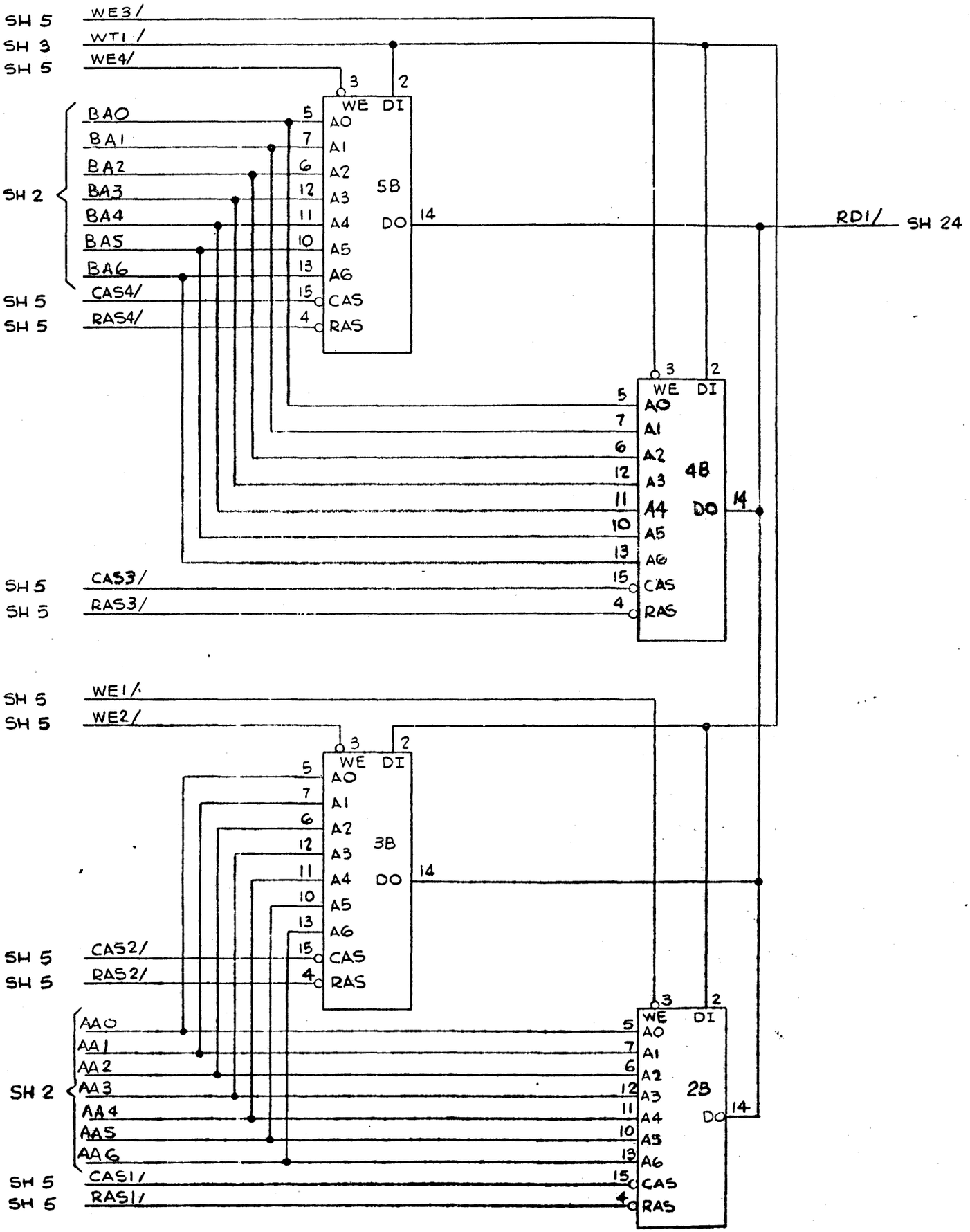
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
8	2851 8298	038	A

ORIGINAL

DTM 168 REV 8-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
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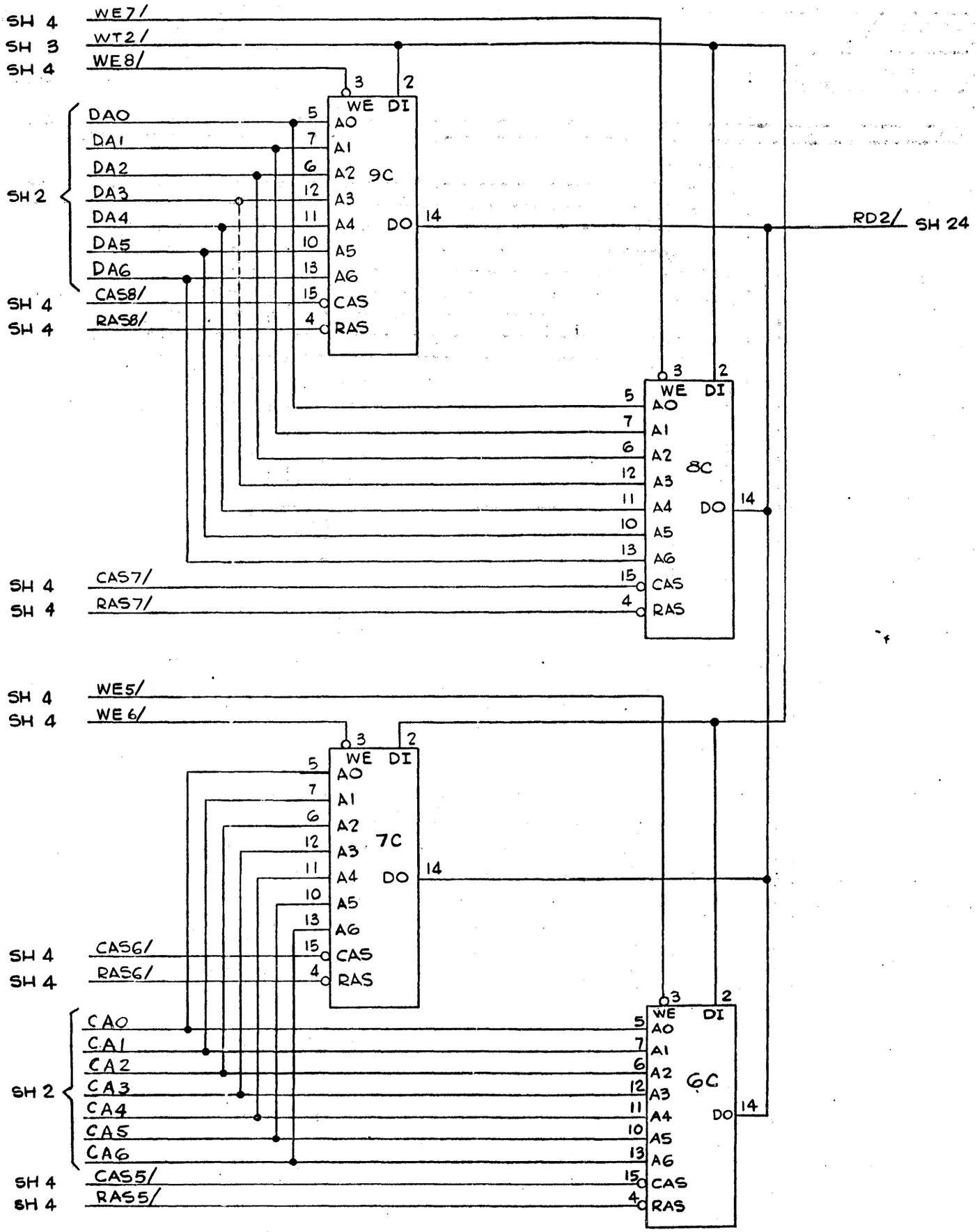


Burroughs Corporation

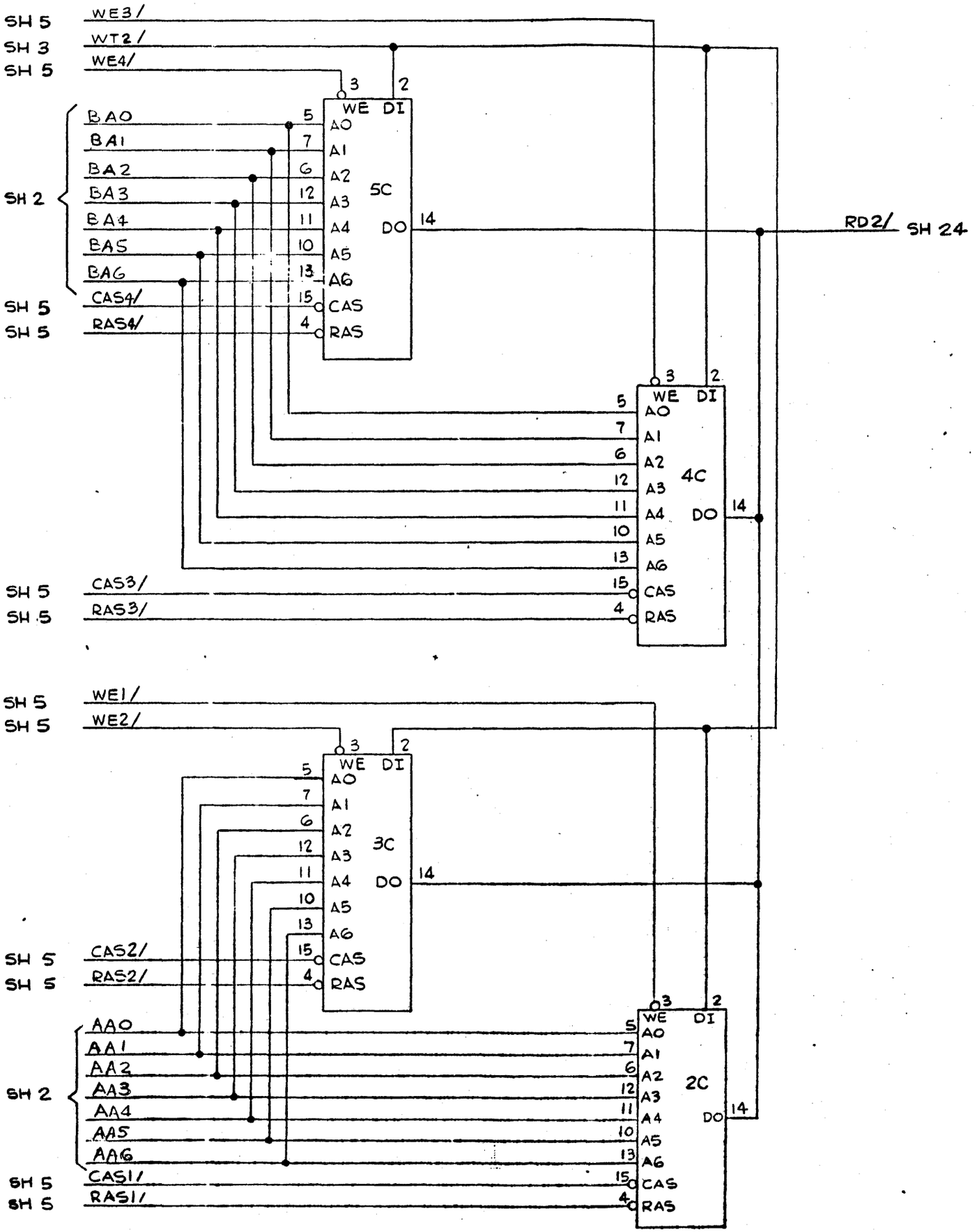
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE		CLASS CODE
DMEM		2-9520
SHEET 10	DWG NO. 28518298	DSGN CONT 038 / REV A

DYN 158 REV 8-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

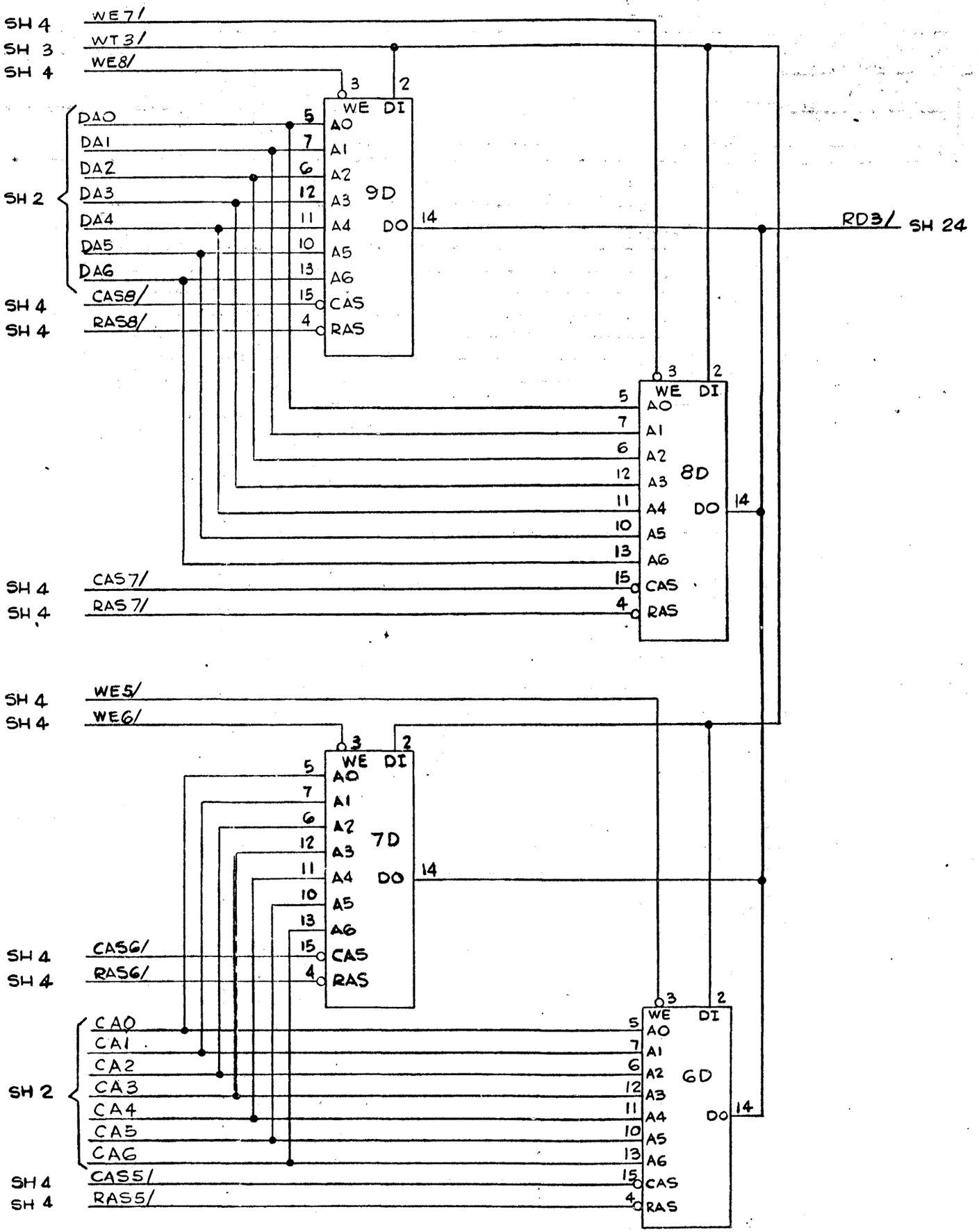
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
11	28518298	038	A

DYN 199 REV 0-77

ORIGINAL



REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
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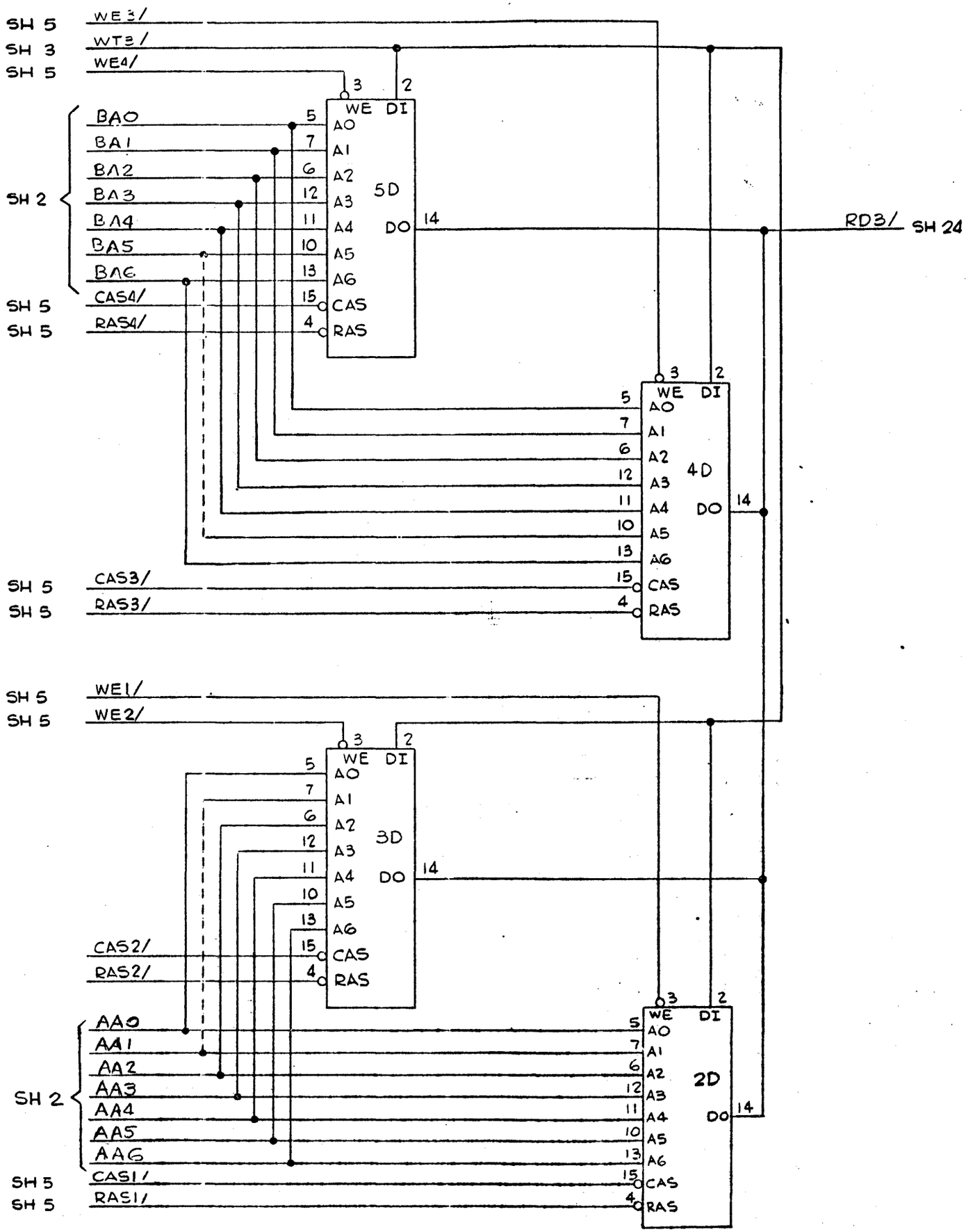


Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

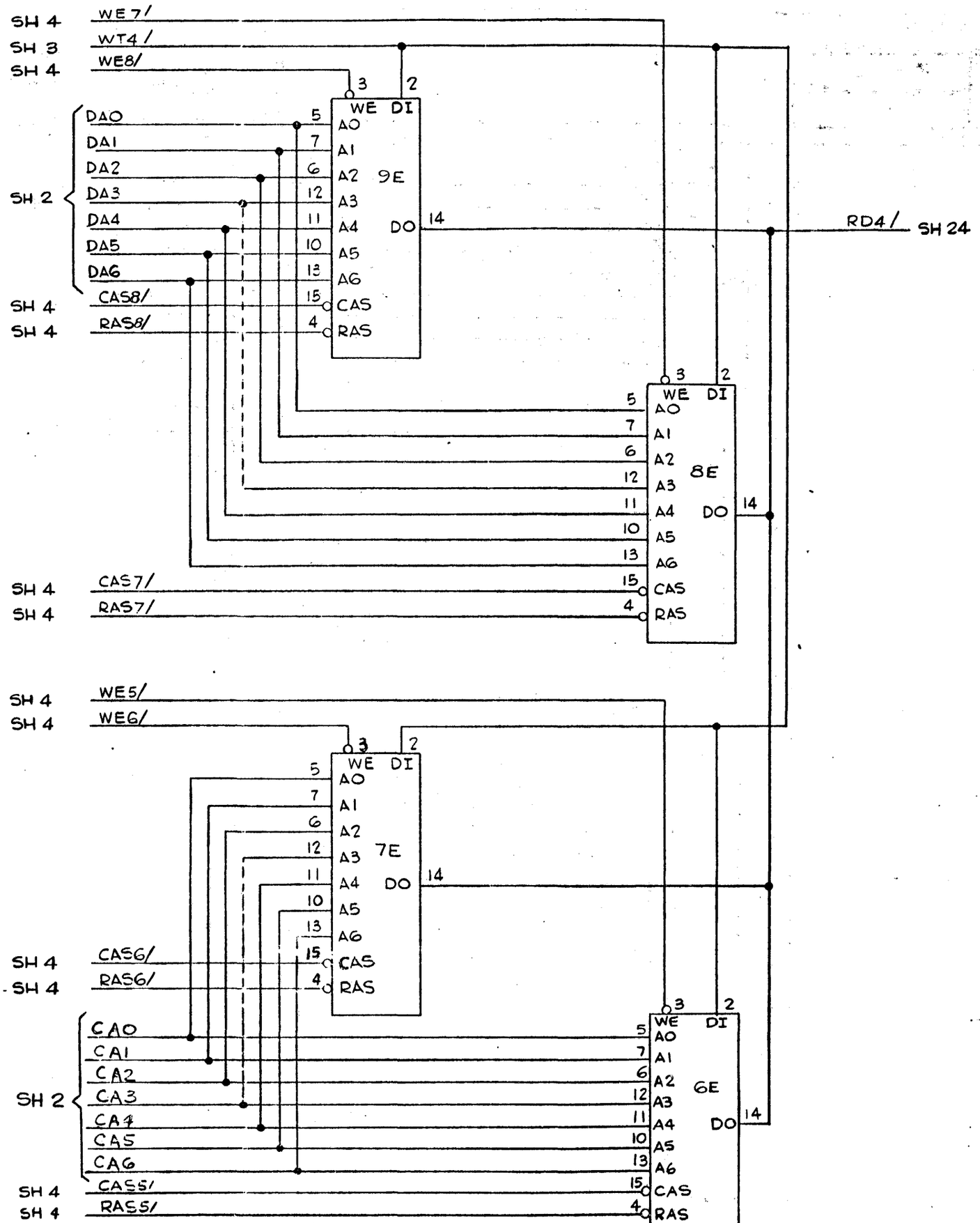
DOWNINGTOWN PLANT
U S AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
13	28518298	038	A

DTN 168 REV 8-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U. S. AMERICA

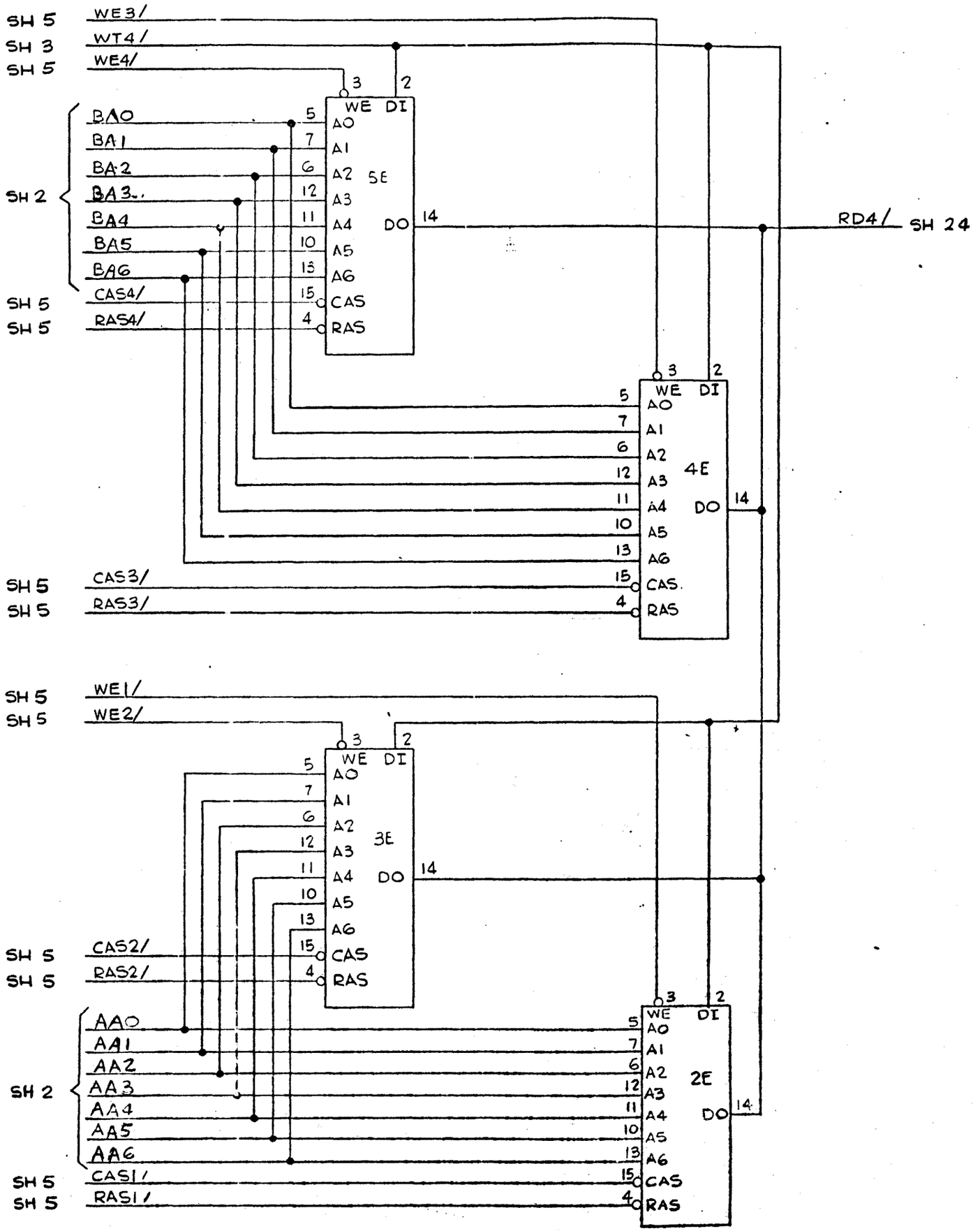
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
14	2851 8298	038	A

ORIGINAL

DTN 100 REV 0-77



Burroughs Corporation

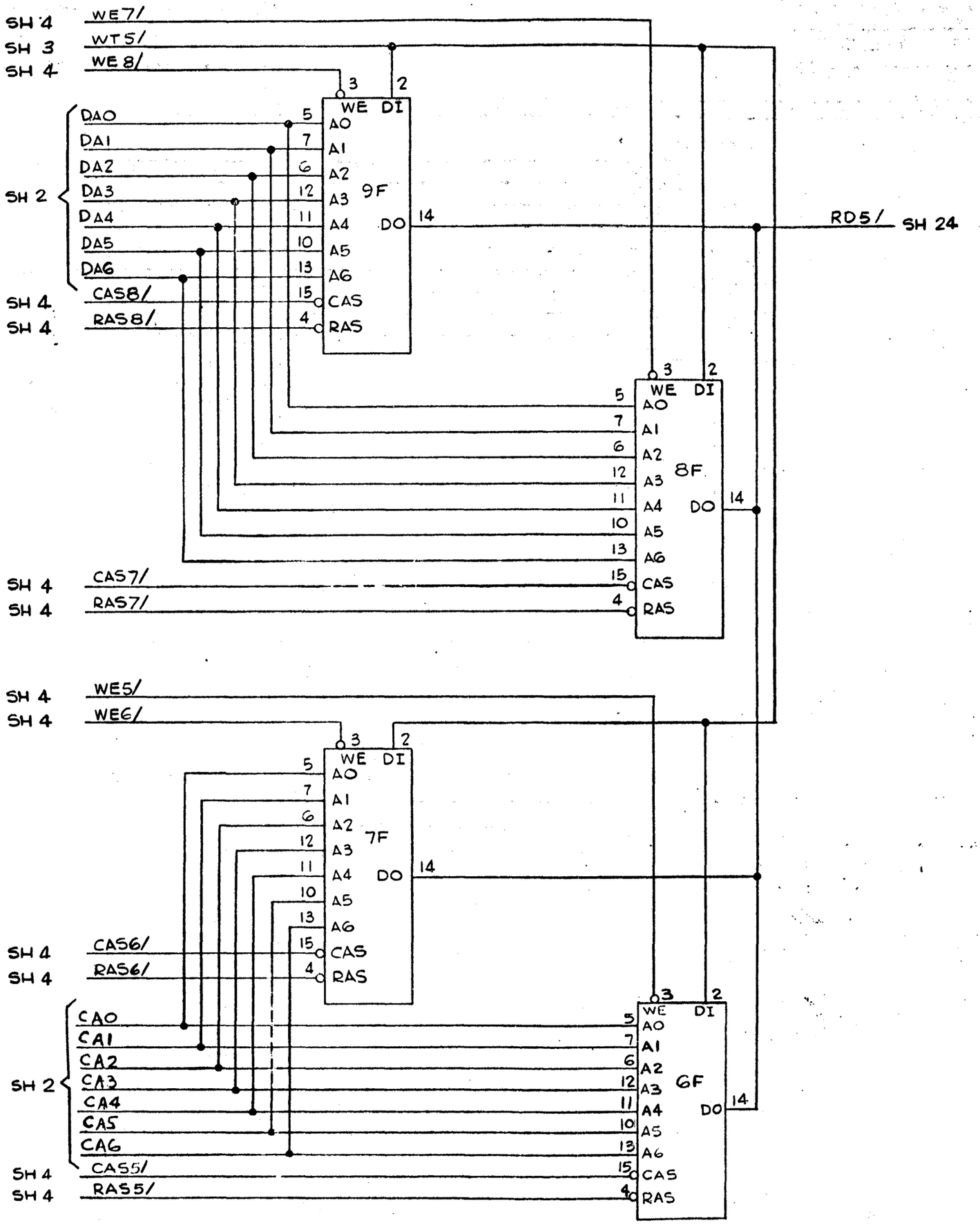
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT.)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
15	2851 8298	038	A

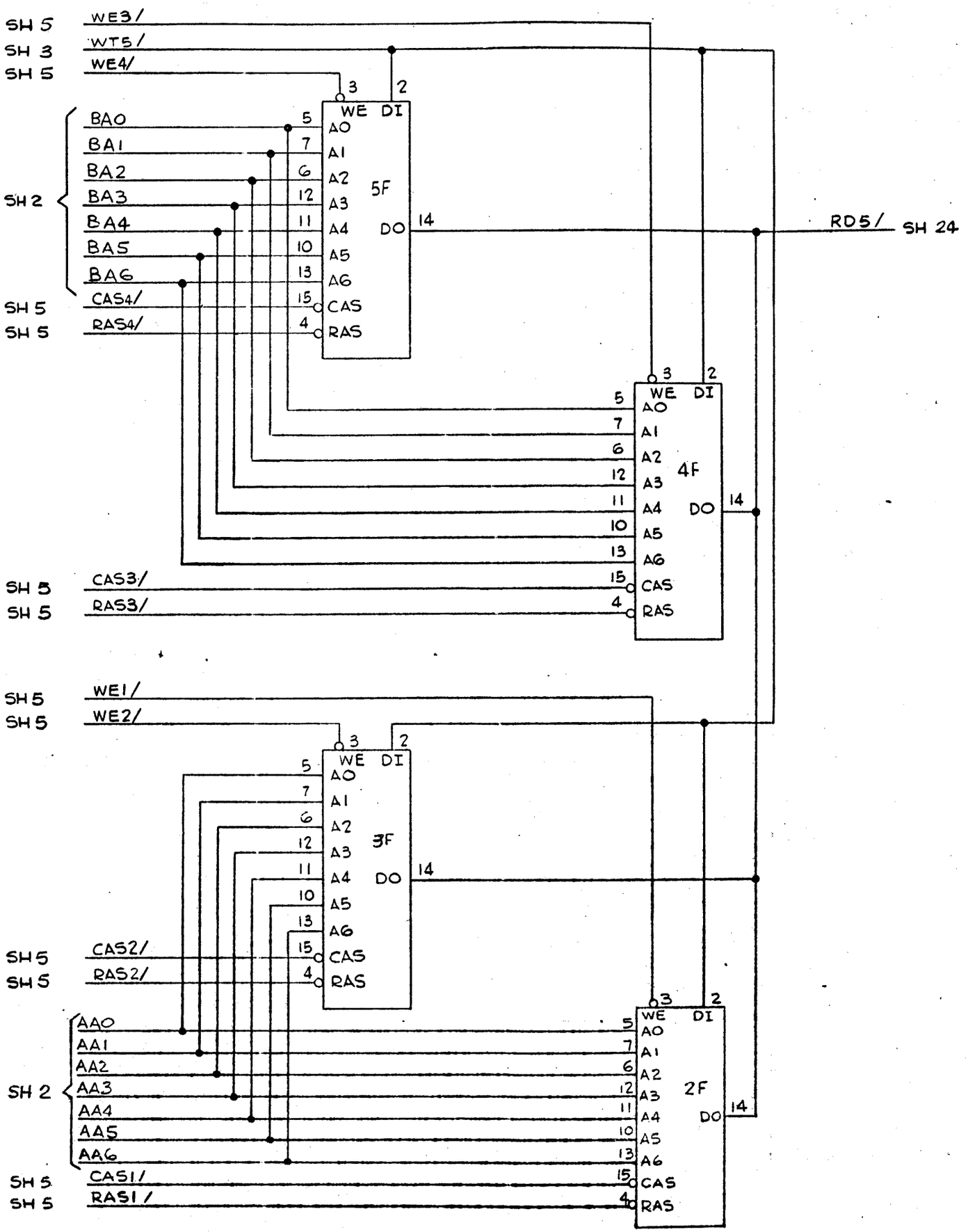


REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
16	2851 8298	038	A

DTN 165 REV 0-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U.S. AMERICA

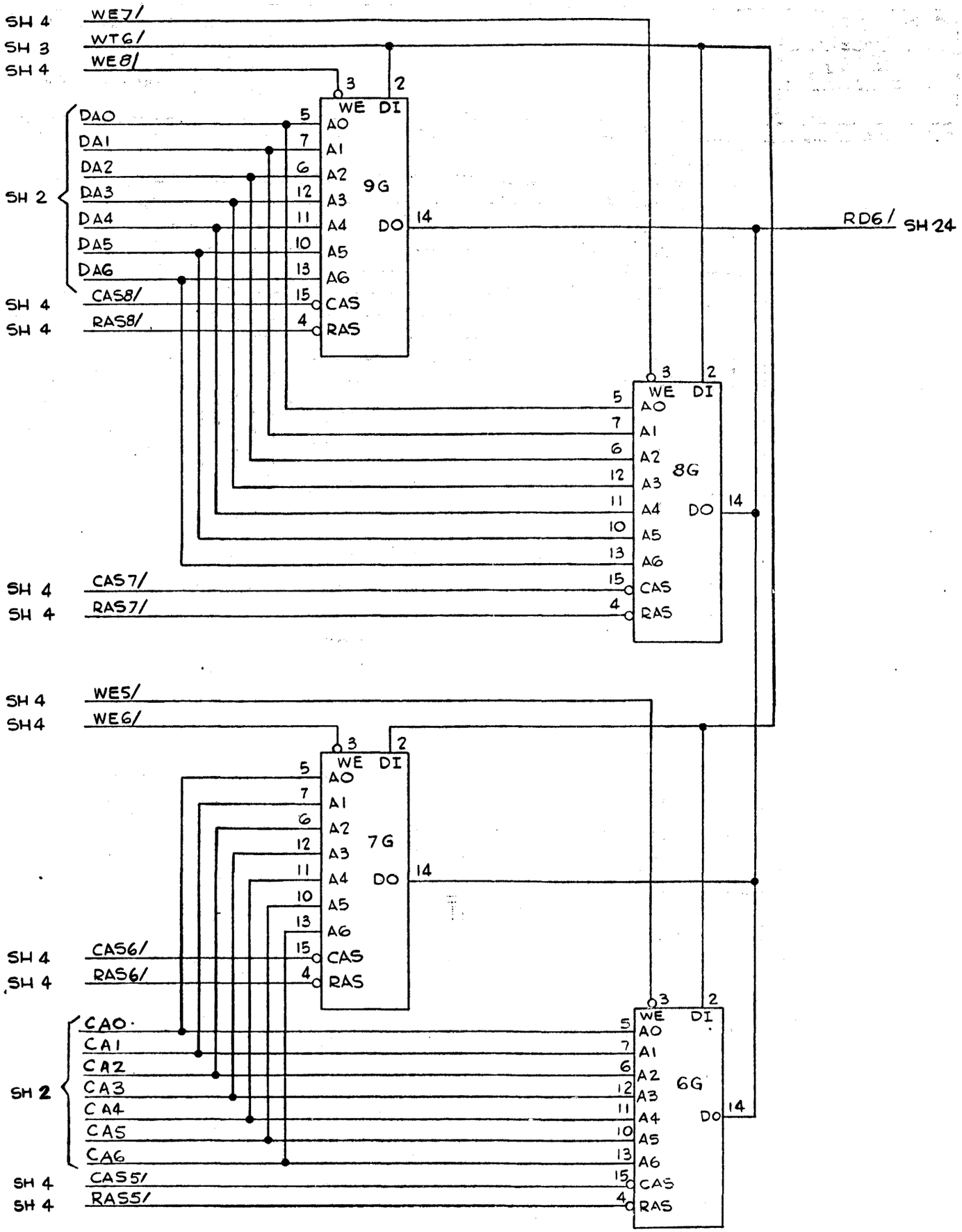
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
17	2851 8298	038	A

DTN 169 REV 9-77

ORIGINAL



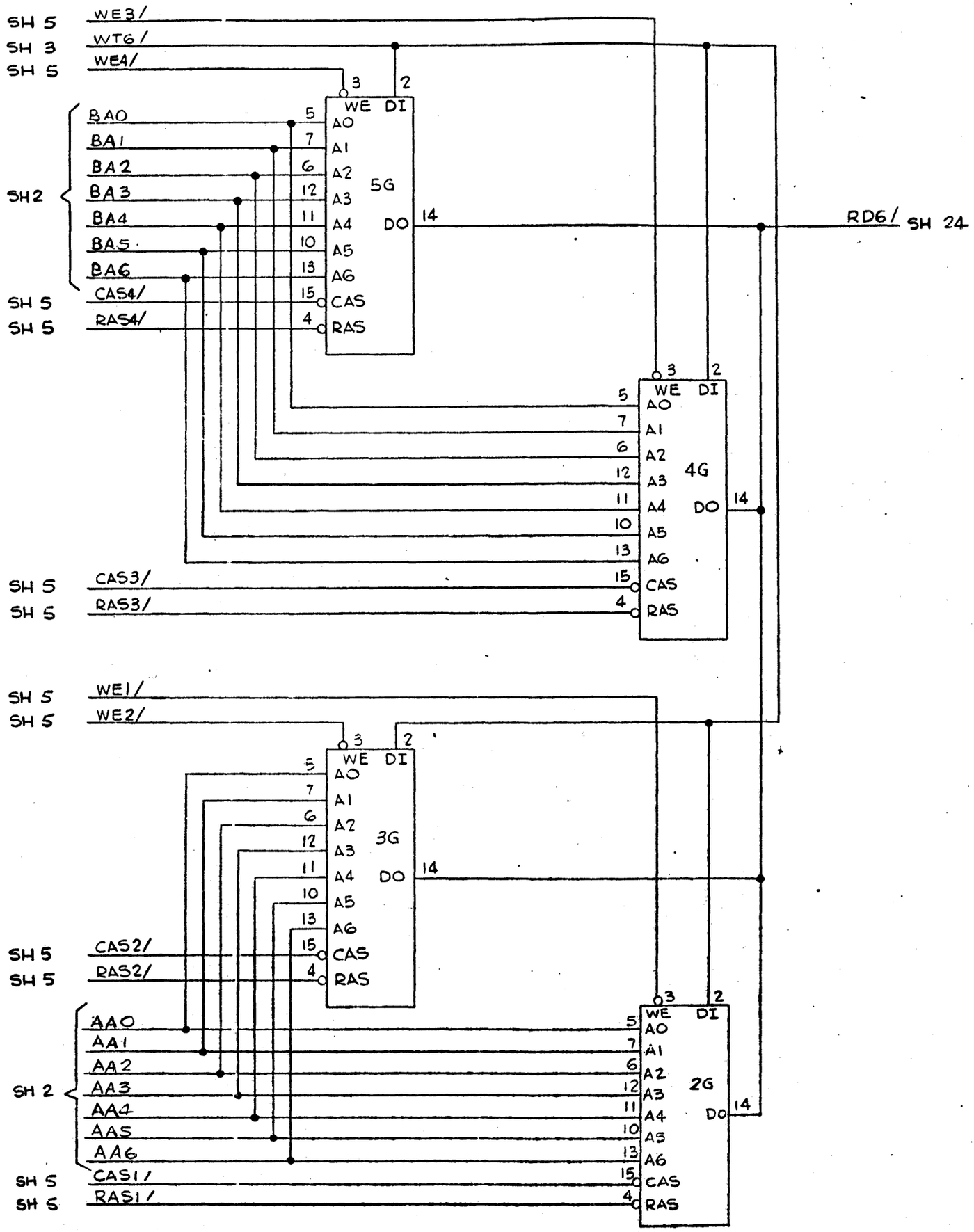
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
18	2851 8298	038	A

ORIGINAL

DTN 169 REV 8-77



Burroughs Corporation

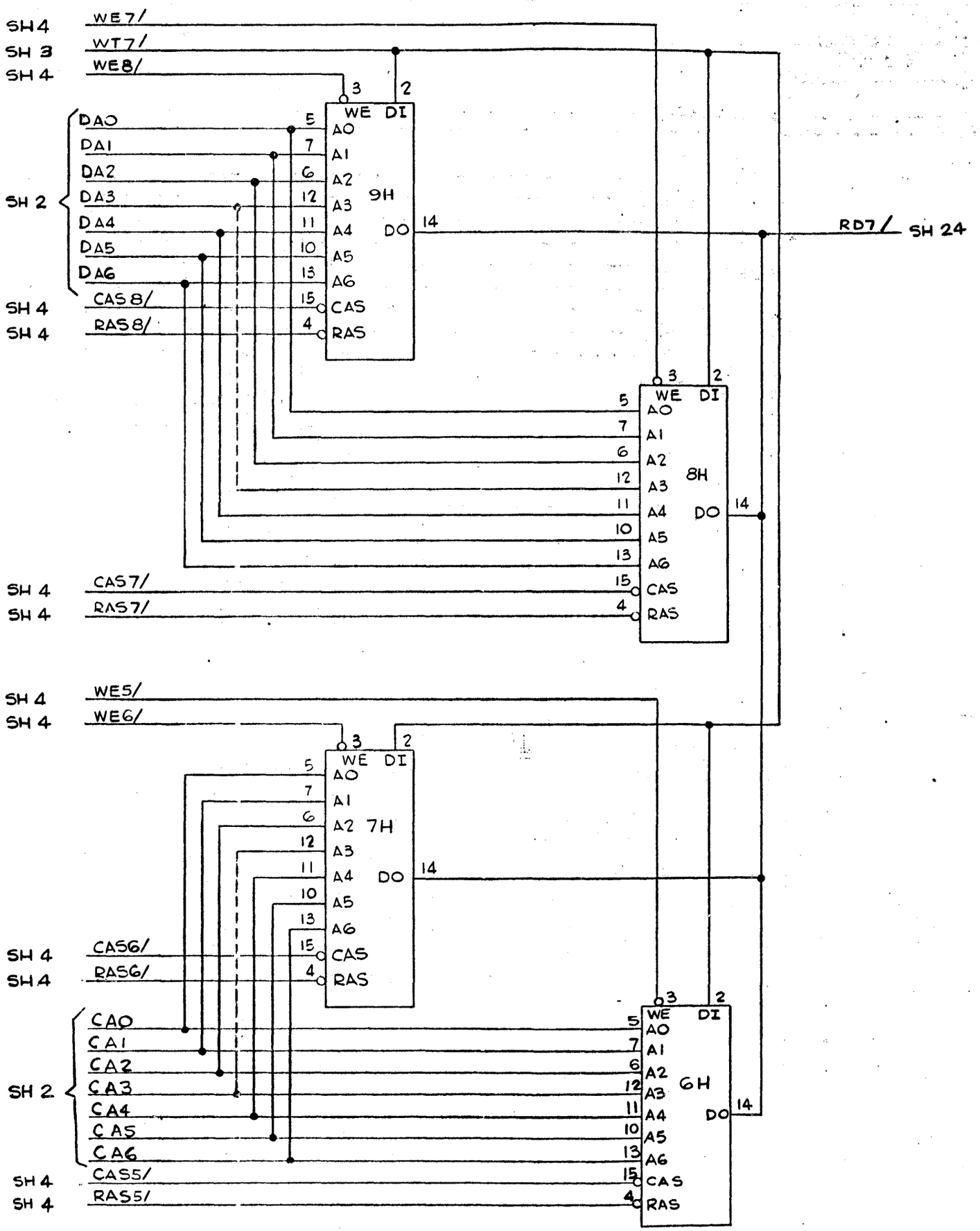
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

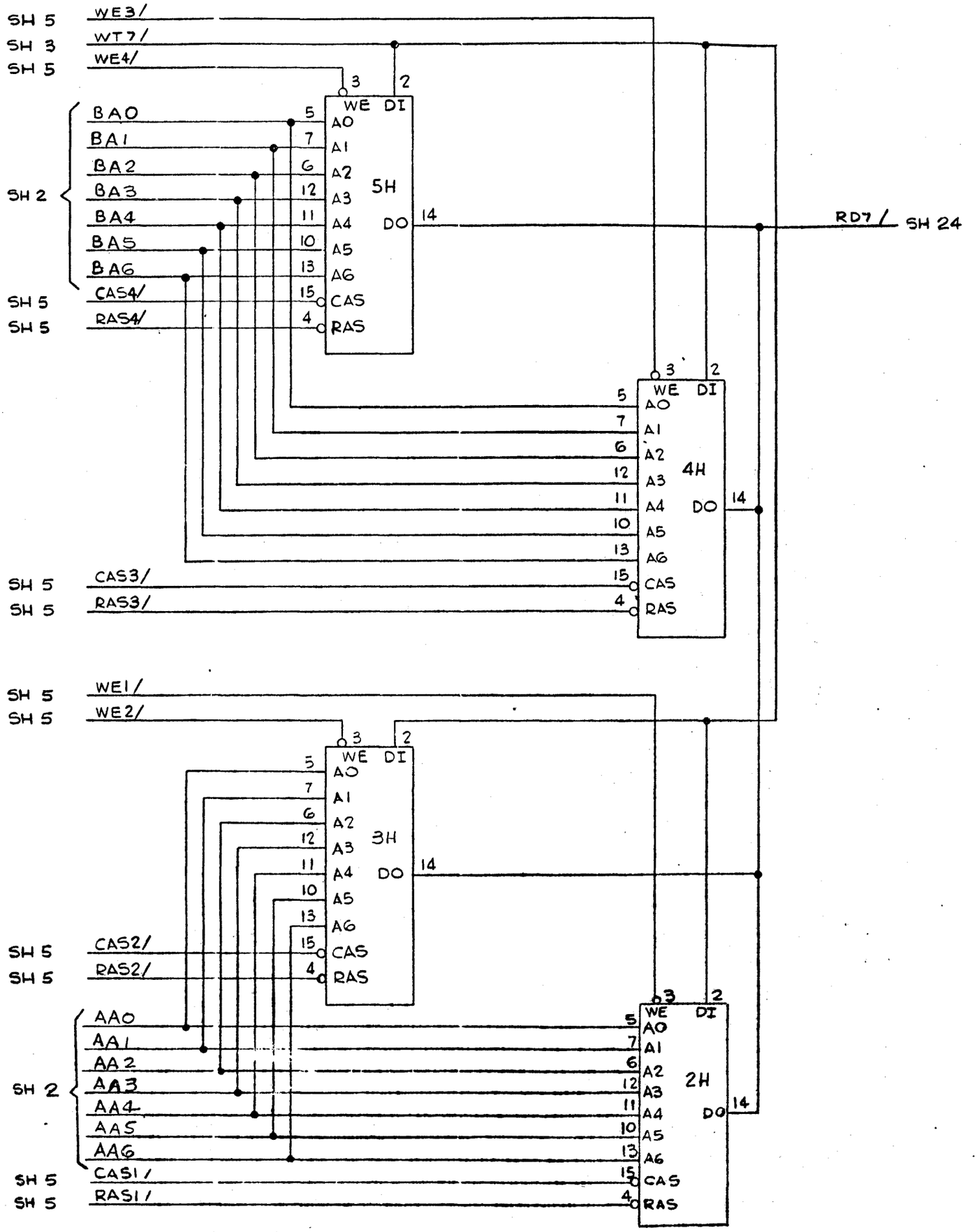
DOWNINGTOWN PLANT
U. S. AMERICA

PRINTED IN U. S. AMERICA

REVISIONS (CONT)

TITLE		CLASS CODE
DMEM		2-9520
SHEET 19	DWG NO. 28518298	DSGN CONT 038 / REV A





Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U.S. AMERICA

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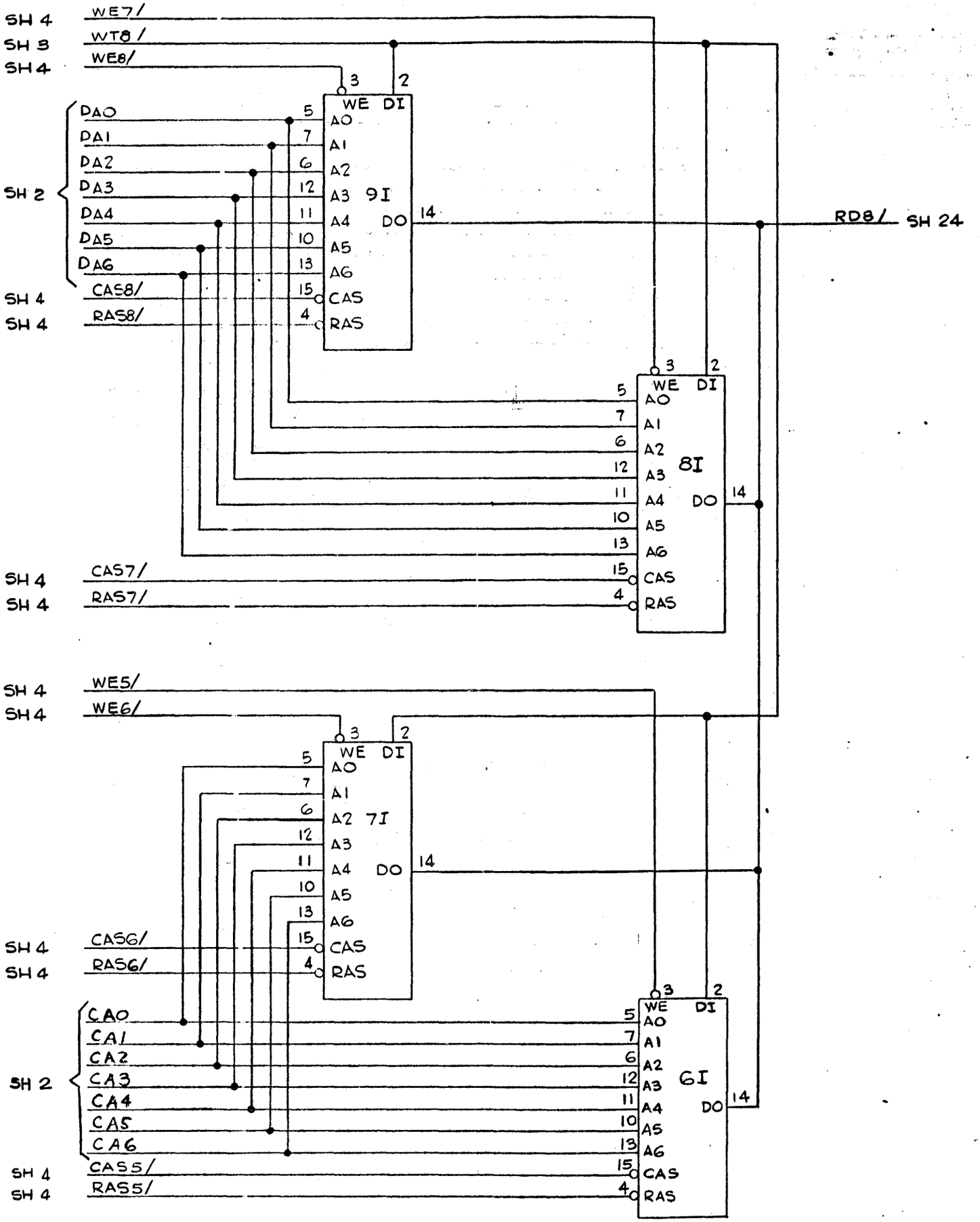
REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
21	28518298	038	A

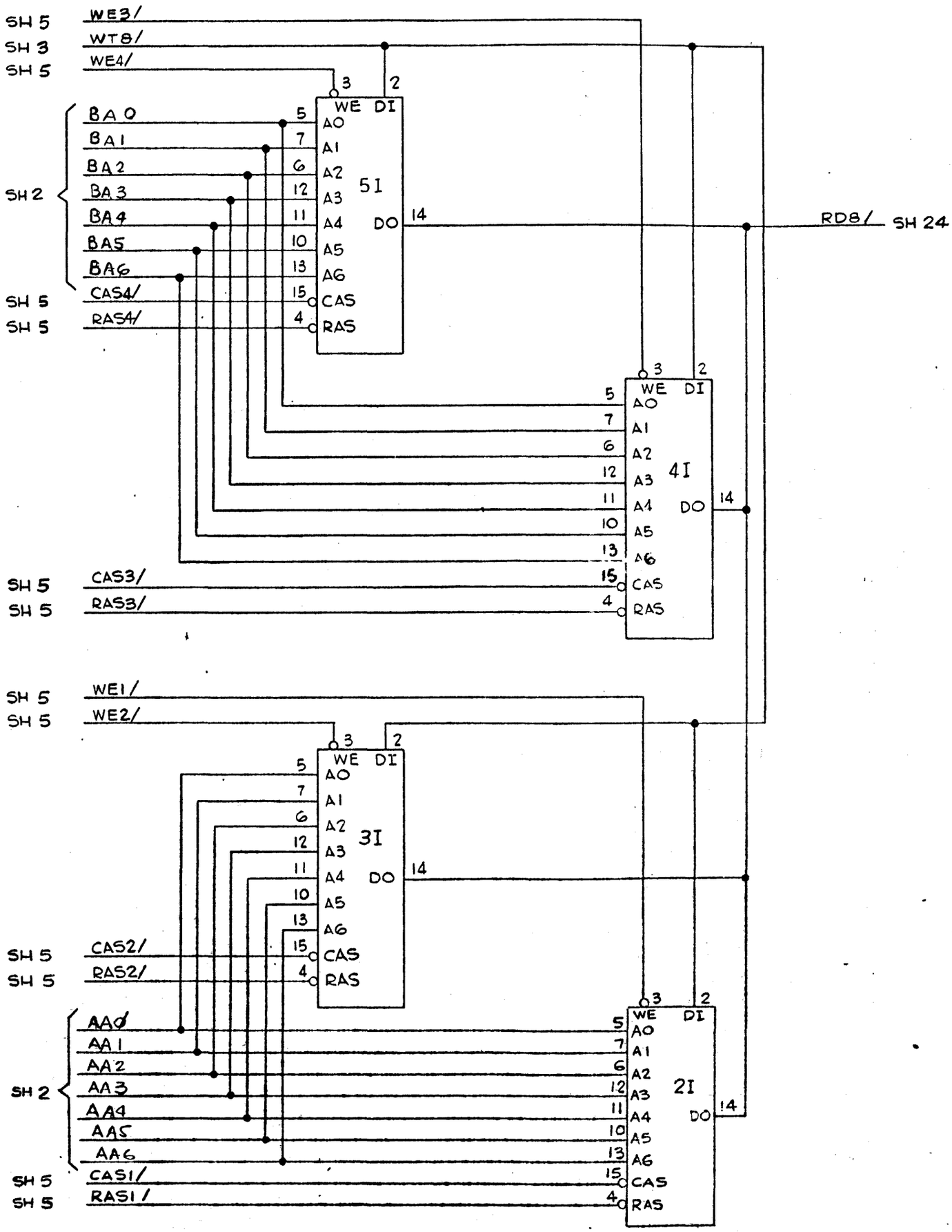
BTH 150 REV 8-77



REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
22	2851 8298	038	A



Burroughs Corporation

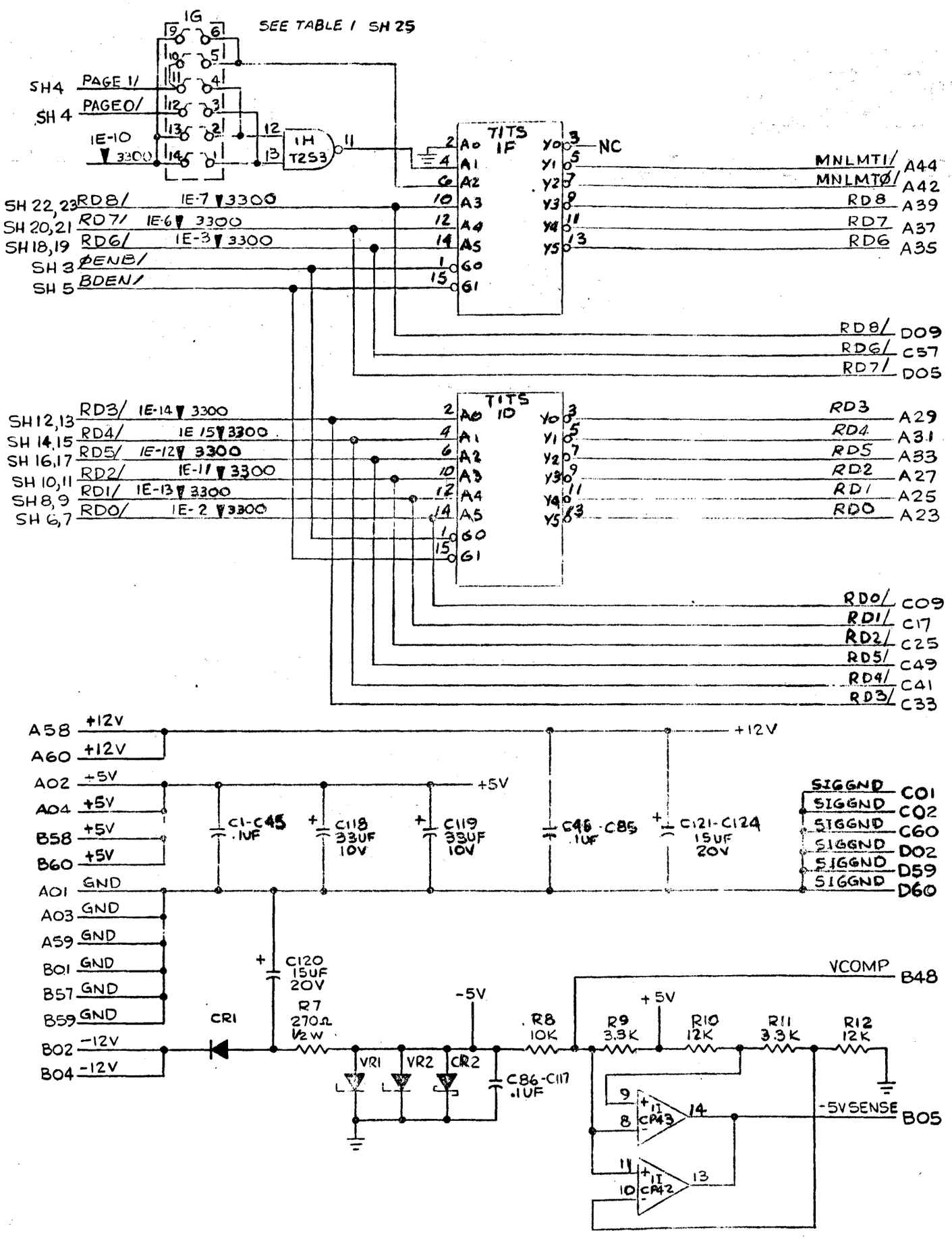
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
23	28518298	038	A



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN PA 19335

DOWNINGTOWN PLANT
U S AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO	DSGN CONT	REV
24	2851 8298	038	D

DTH 169 REV B 77

ADD LINKS IN AREA G1 PER TABLE 1 FOR MEMORY OPERATION IN ASSEMBLIES LISTED.

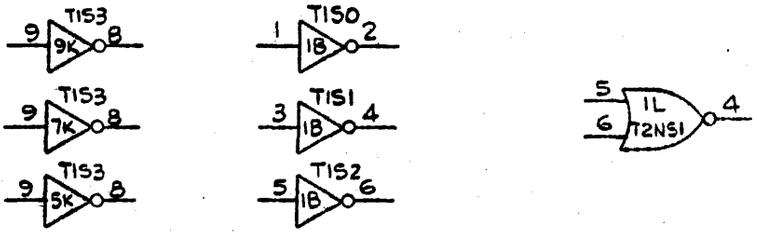
TABLE 1

128K	96K	64K	32K
2851 9809 2851 9817	2851 9833 2851 9841	2851 9866 2851 9874	2853 4154 2853 4162
1G-6, 1G-9	1G-2, 1G-13	1G-2, 1G-13	1G-1, 1G-14
1G-3, 1G-12	1G-3, 1G-12	1G-3, 1G-12	1G-2, 1G-13
1G-4, 1G-11	1G-6, 1G-9	1G-5, 1G-10	1G-5, 1G-10

NOTES:

1. FOR ASSY 2851 9809, 2851 9833, 2851 9866 USE PART NO. 2626 5562.
   FOR ASSY 2851 9817, 2851 9841, 2851 9874 USE PART NO. 2626 8011.
2. FOR ASSY 2851 9809, 2851 9833 USE PART NO. 2626 5562
   FOR ASSY 2851 9817, 2851 9841 USE PART NO. 2626 8011.
3. FOR ASSY 2851 9809 USE PART NO. 2625 5562.
   FOR ASSY 2851 9817 USE PART NO. 2626 8011.
4. ▼ INDICATES PULL-UP RESISTOR.
5. ALL RESISTOR VALUES ARE IN OHMS.
6. ALL FRONTPLANE PINS (PREFIXED "C" OR "D") ARE TEST POINTS.
7. FOR ASSY 2853 4154, 2851 9809, 2851 9833, 2851 9866 USE PART NO. 2626 5562.
   FOR ASSY 2853 4162, 2851 9817, 2851 9841, 2851 9874 USE PART NO. 2626 8011.

UNUSED LOGIC



Burroughs Corporation

SMALL SYSTEMS GROUP, DOWNINGTOWN, PA. 19335 — DOWNINGTOWN PLANT, U. S. AMERICA

REVISIONS (CONT)

ORIGINAL

TITLE	CLASS CODE
DMEM	2-9520

SHEET	DWG NO.	DSGN CONT	REV
25	2851 8298	038	C

DTN 150 REV 9-72

INPUT		1		2		3		4		5		OUTPUT	
LOC	CODE	PART NO.	SH(S) NO.	LOC	CODE	PART NO.	SH(S) NO.	LOC	CODE	PART NO.	SH (S) NO.
1A	TISN	2600 1495	3	1F	T1TS	2602 7292	24	1K	TISN	2600 1495	3,4
2A	16K RAM	SEE NOTE 7 *	7	2F	16K RAM	SEE NOTE 7 *	17	2K	TISN	2600 1495	2
3A	16K RAM	SEE NOTE 7 *	7	3F	16K RAM	SEE NOTE 7 *	17	3K	TISN	2600 1495	2,3,5
4A	16K RAM	SEE NOTE 1 *	7	4F	16K RAM	SEE NOTE 1 *	17	4K	TISN	2600 1495	2
5A	16K RAM	SEE NOTE 1 *	7	5F	16K RAM	SEE NOTE 1 *	17	5K	TISN	2600 1495	2,5,25
6A	16K RAM	SEE NOTE 2 *	6	6F	16K RAM	SEE NOTE 2 *	16	6K	TISN	2600 1495	2 *
7A	16K RAM	SEE NOTE 2 *	6	7F	16K RAM	SEE NOTE 2 *	16	7K	TISN	2600 1495	2,4,25 *
8A	16K RAM	SEE NOTE 3 *	6	8F	16K RAM	SEE NOTE 3 *	16	8K	TISN	2600 1495	2 *
9A	16K RAM	SEE NOTE 3 *	6	9F	16K RAM	SEE NOTE 3 *	16	9K	TISN	2600 1495	2,4,25 *
1B	TISN	2600 1495	3,25	1G		2601 5255	24	1L	T2NN	2602 7334	3,4,25
2B	16K RAM	SEE NOTE 7 *	9	2G	16K RAM	SEE NOTE 7 *	19	2L	S140	2602 2889	3
3B	16K RAM	SEE NOTE 7 *	9	3G	16K RAM	SEE NOTE 7 *	19	3L	T2SN	2600 1487	5
4B	16K RAM	SEE NOTE 1 *	9	4G	16K RAM	SEE NOTE 1 *	19	4L	S157	2602 3291	1
5B	16K RAM	SEE NOTE 1 *	9	5G	16K RAM	SEE NOTE 1 *	19	5L	T2SN	2600 1487	5
6B	16K RAM	SEE NOTE 2 *	8	6G	16K RAM	SEE NOTE 2 *	18	6L	S157	2602 3291	1
7B	16K RAM	SEE NOTE 2 *	8	7G	16K RAM	SEE NOTE 2 *	18	7L	T2SN	2600 1487	4 *
8B	16K RAM	SEE NOTE 3 *	8	8G	16K RAM	SEE NOTE 3 *	18	8L	X4SN	2602 2897	4,5
9B	16K RAM	SEE NOTE 3 *	8	9G	16K RAM	SEE NOTE 3 *	18	9L	T2SN	2600 1487	4 *
1C	R MOD	1737 0214	3	1H	T2SN	2600 1487	3,5,24	1M			
2C	16K RAM	SEE NOTE 7 *	11	2H	16K RAM	SEE NOTE 7 *	21	2M	DLCN2	2847 2637	3
3C	16K RAM	SEE NOTE 7 *	11	3H	16K RAM	SEE NOTE 7 *	21	3M	CR4N	1447 3771	1
4C	16K RAM	SEE NOTE 1 *	11	4H	16K RAM	SEE NOTE 1 *	21	4M	S157	2602 3291	1
5C	16K RAM	SEE NOTE 1 *	11	5H	16K RAM	SEE NOTE 1 *	21	5M	CR4N	1447 3771	1
6C	16K RAM	SEE NOTE 2 *	10	6H	16K RAM	SEE NOTE 2 *	20	6M	S157	2602 3291	1
7C	16K RAM	SEE NOTE 2 *	10	7H	16K RAM	SEE NOTE 2 *	20	7M	T2SN	2600 1487	5
8C	16K RAM	SEE NOTE 3 *	10	8H	16K RAM	SEE NOTE 3 *	20	8M	DC35	2600 1545	4
9C	16K RAM	SEE NOTE 3 *	10	9H	16K RAM	SEE NOTE 3 *	20	9M	T2SN	2600 1487	4 *
1D	T1TS	2602 7292	24	1I	CP4N	2118 8297	24				
2D	16K RAM	SEE NOTE 7 *	13	2I	16K RAM	SEE NOTE 7 *	23		R1,R2,R4,R5 R6,R9,R11	1268 6119	1,4,5,24
3D	16K RAM	SEE NOTE 7 *	13	3I	16K RAM	SEE NOTE 7 *	23		R3	1268 5756	3
4D	16K RAM	SEE NOTE 1 *	13	4I	16K RAM	SEE NOTE 1 *	23		R7	1268 2183	24
5D	16K RAM	SEE NOTE 1 *	13	5I	16K RAM	SEE NOTE 1 *	23		R8	1268 6234	24
6D	16K RAM	SEE NOTE 2 *	12	6I	16K RAM	SEE NOTE 2 *	22		R10,R12	1268 6259	24
7D	16K RAM	SEE NOTE 2 *	12	7I	16K RAM	SEE NOTE 2 *	22				
8D	16K RAM	SEE NOTE 3 *	12	8I	16K RAM	SEE NOTE 3 *	22				
9D	16K RAM	SEE NOTE 3 *	12	9I	16K RAM	SEE NOTE 3 *	22				
1E	R MOD	2849 1108	3,24	1J					C1-C117	2848 3956	24
2E	16K RAM	SEE NOTE 7 *	15	2J	R MOD	2849 1090	2		C118,C119	1267 9221	24
3E	16K RAM	SEE NOTE 7 *	15	3J	R MOD	2849 1090	5		C120-C124	1267 9189	24
4E	16K RAM	SEE NOTE 1 *	15	4J	R MOD	2849 1090	2				
5E	16K RAM	SEE NOTE 1 *	15	5J	R MOD	2849 1090	5				
6E	16K RAM	SEE NOTE 2 *	14	6J	R MOD	2849 1090 *	2				
7E	16K RAM	SEE NOTE 2 *	14	7J	R MOD	2849 1090 *	4				
8E	16K RAM	SEE NOTE 3 *	14	8J	R MOD	2849 1090 *	2		CR1	1471 4737	24
9E	16K RAM	SEE NOTE 3 *	14	9J	R MOD	2849 1090 *	4		CR2	2625 5794	24
									VR1	1105 9052	24
									VR2	1089 4319	24

* PARTS IN THESE LOCATIONS VARY ACCORDING TO ASSEMBLY.

Burroughs Corporation
SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335
DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE: DMEM
CLASS CODE: 2-9520
SHEET: 26
DWG NO.: 2851 8298
DSGN CONT: 038
REV: C

2855 8573
~~2851 9049~~
REV C

SHEET NO 1 OF 1
RELEASED NOV-30-78
ER 02198 MFG

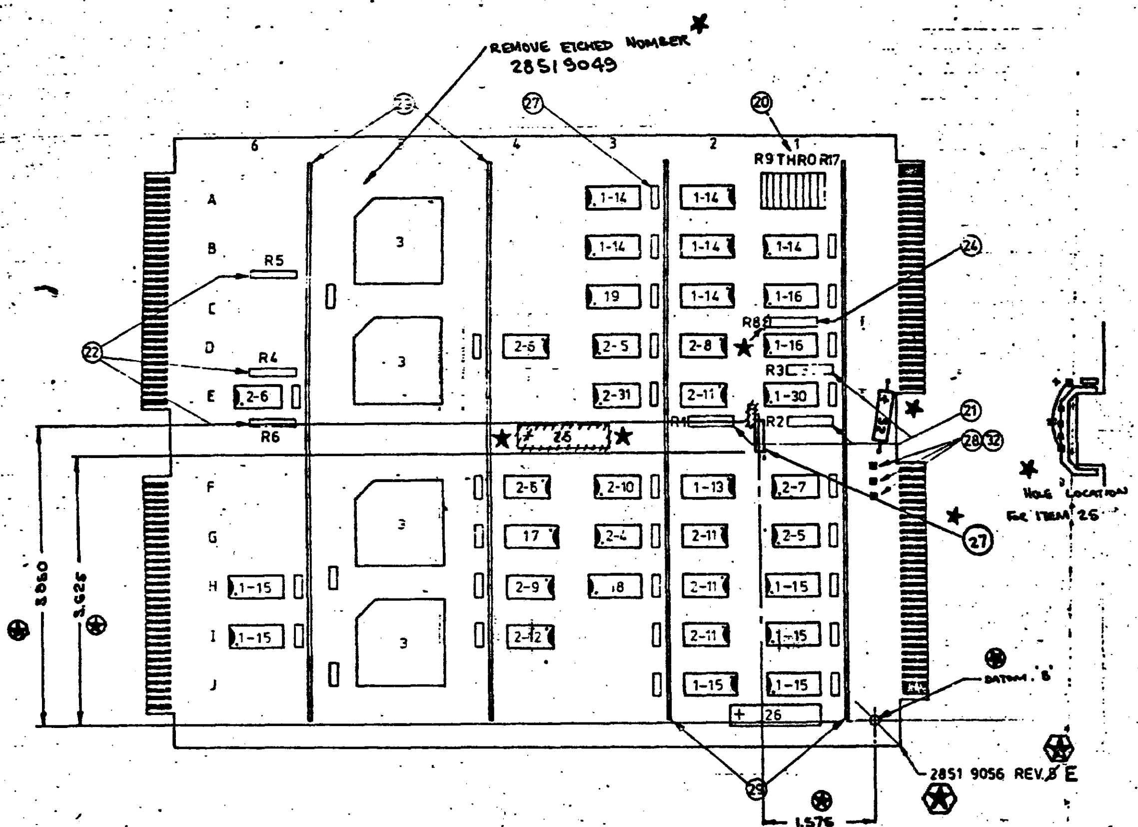
ECN 02790 A-1
REWORK INSTRUCTION
FOR PLYMOUTH ONLY

ECN 02723 B
A.M.H. FEB. 23 79
ITEM 23 REMOVED
ITEM 1 WAS 2603 8229
ITEM 6 WAS 2848 6647
2851 9056 WAS REV. A

C RELEASED BY DOWNINGTOWN ER148847

EDA 03284
C.B. OCT. 15 1979

EDA 03284 REV B
C.B. JAN. 30, 1980



CODE	DESCRIPTION	PART NO.	REQD.
1	16 PIN SOCKET	2603 8299	16
2	14 PIN "	2603 8281	16
3	51 PIN "	1532 8123	4
4	IC PKG SN74LS00	2607 1787	1
5	IC " SN74 S04	2603 1495	2
6	IC " SN74LS08	2846 6647	3
7	IC " SN74S08	2604 6805	1
8	IC " SN74S11	2600 1511	1
9	IC " SN7414	1863 4477	1
10	IC " SN7428	2603 2607	1
11	IC " SN74S74	2600 1537	4
12	IC " SN7474	1447 3607	1
13	IC " SN74S112	2602 7417	1
14	IC " 8T28	1959 5768	6
15	IC " 8096	2602 7292	6
16	IC " 8097	1948 5051	2
17	DIL RES PKG 1·5KΩ	2606 0426	1
18	" " "	1737 0255	1
19	" " " 750Ω	2606 0392	1
20	RES 220Ω ¼W±5%	1268 1151	9
21	" 51Ω " "	1268 1003	3
22	" 3·3KΩ " "	1268 1433	3
23			
24	" 270Ω " "	1268 1177	1
25	CAPACITOR 47µf 20V	1267 3262	1
26	" 100µf 10V	1267 3353	1
27	" ·1µf	2848 3956	31
28	SOCKET	1239 1306	3
29	BUS BAR	2843 5786	4
30	IC PKG 3245	2574 6975	1
31	IC PKG SN 7438	1447 3581	1
32	SPRING LINK	1536 3674	1
33			
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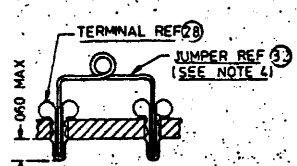


SECTION A A

NOTES:
1. FOR SCHEMATIC SEE 2851 9098
2. MAX HEIGHT OF I C PACKAGES IN SOCKET .450 FROM CARD SURFACE
3. INSERT I C PACKAGES IN SOCKETS AFTER FLOW SOLDER
4. ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

UNLESS OTHERWISE SPECIFIED

MAX HEIGHT OF COMPONENTS .450 FROM CARD SURFACE
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F
LEAD PROTRUSION FROM CARD SURFACE .06 MAX

EDA 03315

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
~~PROJECT~~
~~GROUP~~
DATE 5-30-80
STAMP PWB ASSEMBLY WITH "EDA 5-30-80"
SHEET 1 AFFECTED

INDICATES CHANGES PRODUCT ENGINEERING JAN. 30, 1980
EDA 03284 Rev B

INDICATES CHANGES PRODUCT ENGINEERING OCT. 15, 1979

EDA 03284
THIS DEVIATION TO BE CARRIED OUT ON ALL EXISTING STOCK AND THE ASSEMBLIES TO BE STAMPED 2853 8573

DO NOT SCALE

H L N DEC-29-78
T.S. DEC-29-78

2-7045

Burroughs

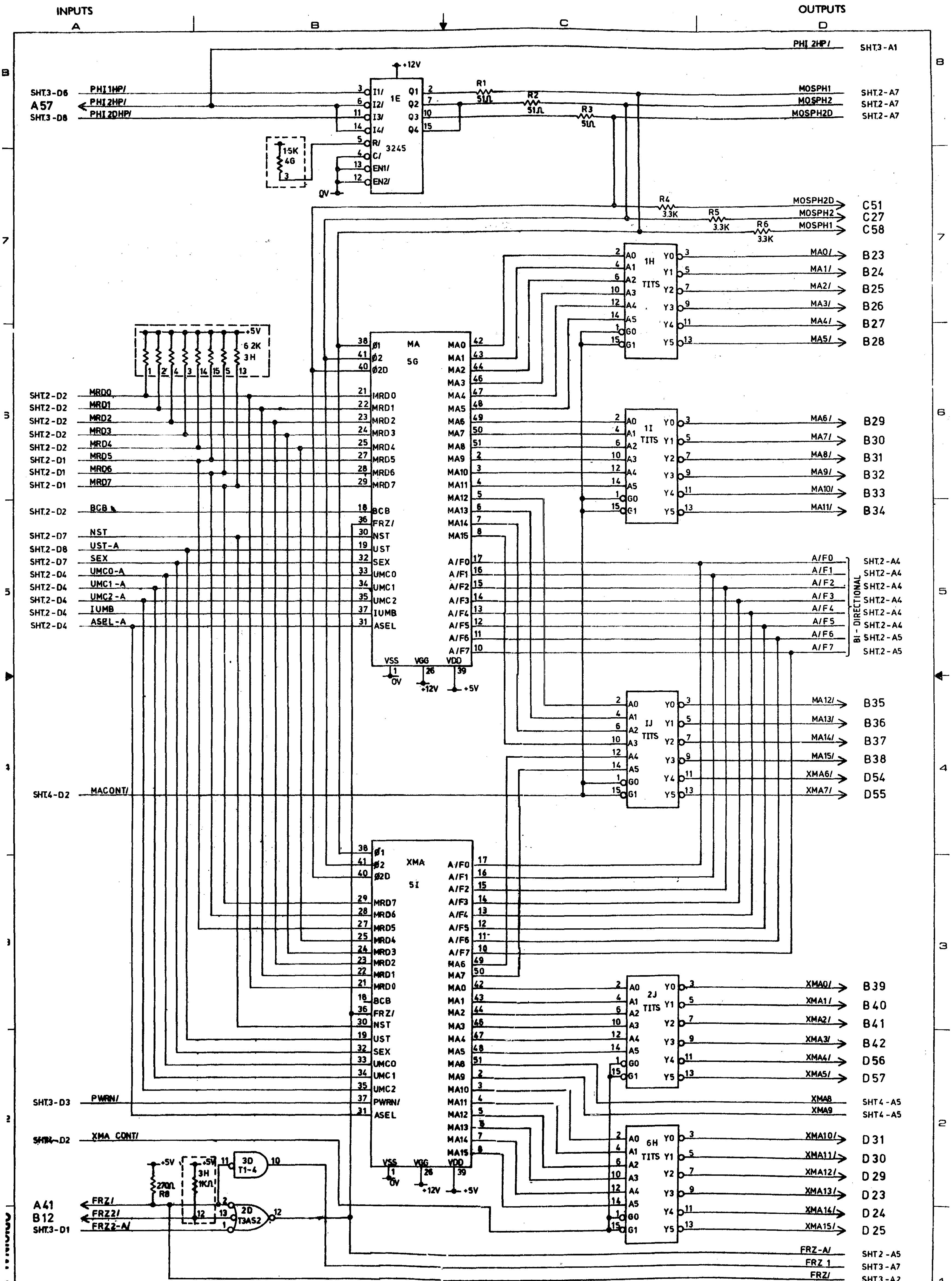
BOARD ASSEMBLY N PRO 1 PROCESSOR

2855 8573
~~2851 9049~~

SCALE 1 — A1

ORIGINAL

EDA 03284
EDA 03284 (REV. B)



PAGE 1 OF 5 | DRAWING No. 2851 9098 B

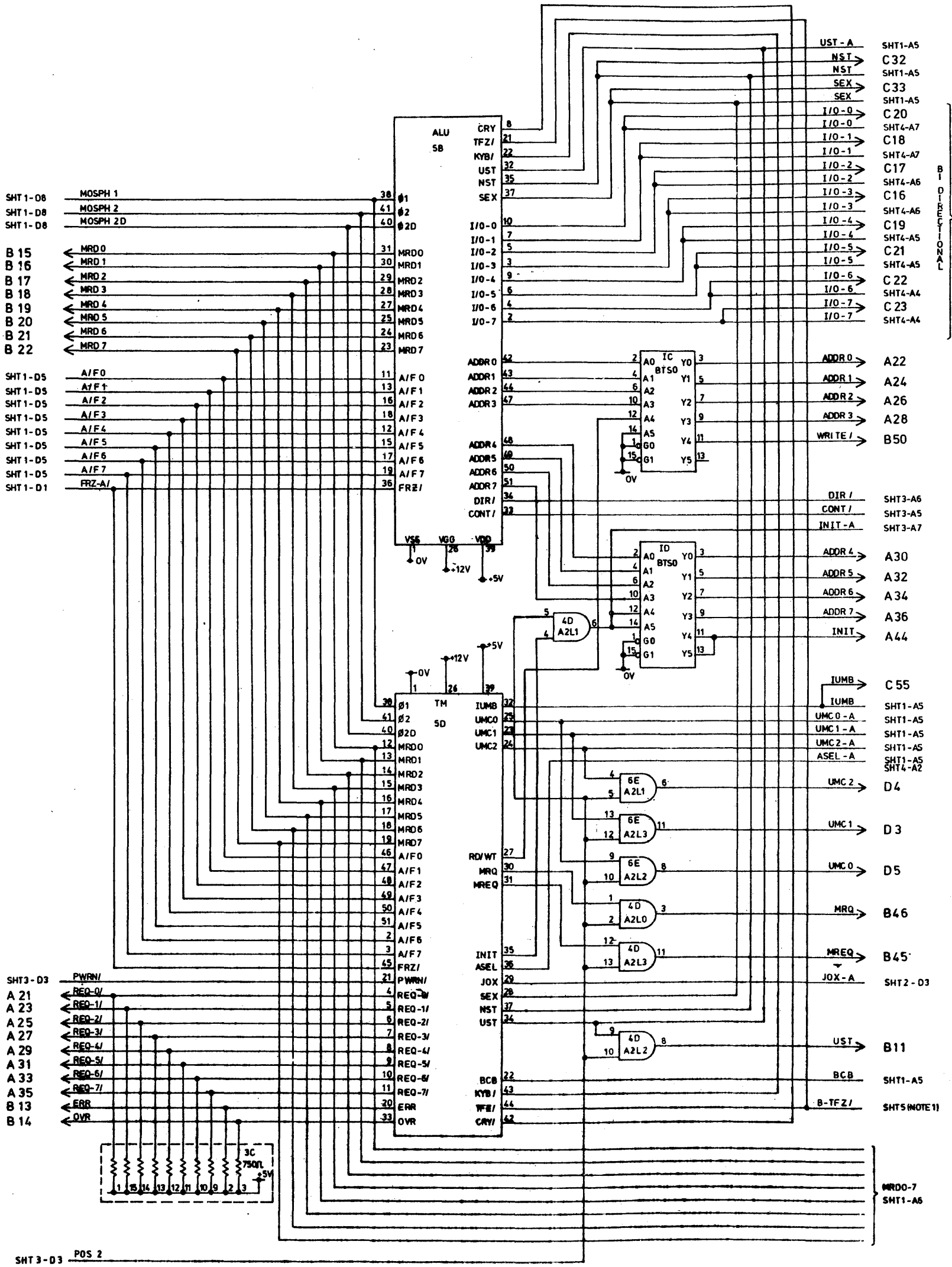
ECN 02723 AHM FEB 23-79 1,3,5 ALT. B | ER 02198 | RELEASED NOV-30-78

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

DSGN. CONTROL 308	TITLE NPRO 1 SCHEMATIC				
DSGN/ENGR. T. SKWARA	DATE DEC. 23-78	DRAWN H.L.N.	DATE DEC. 23-78	DRAWING No. 2851 9098	
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE	REV B	PAGE 1 OF 5

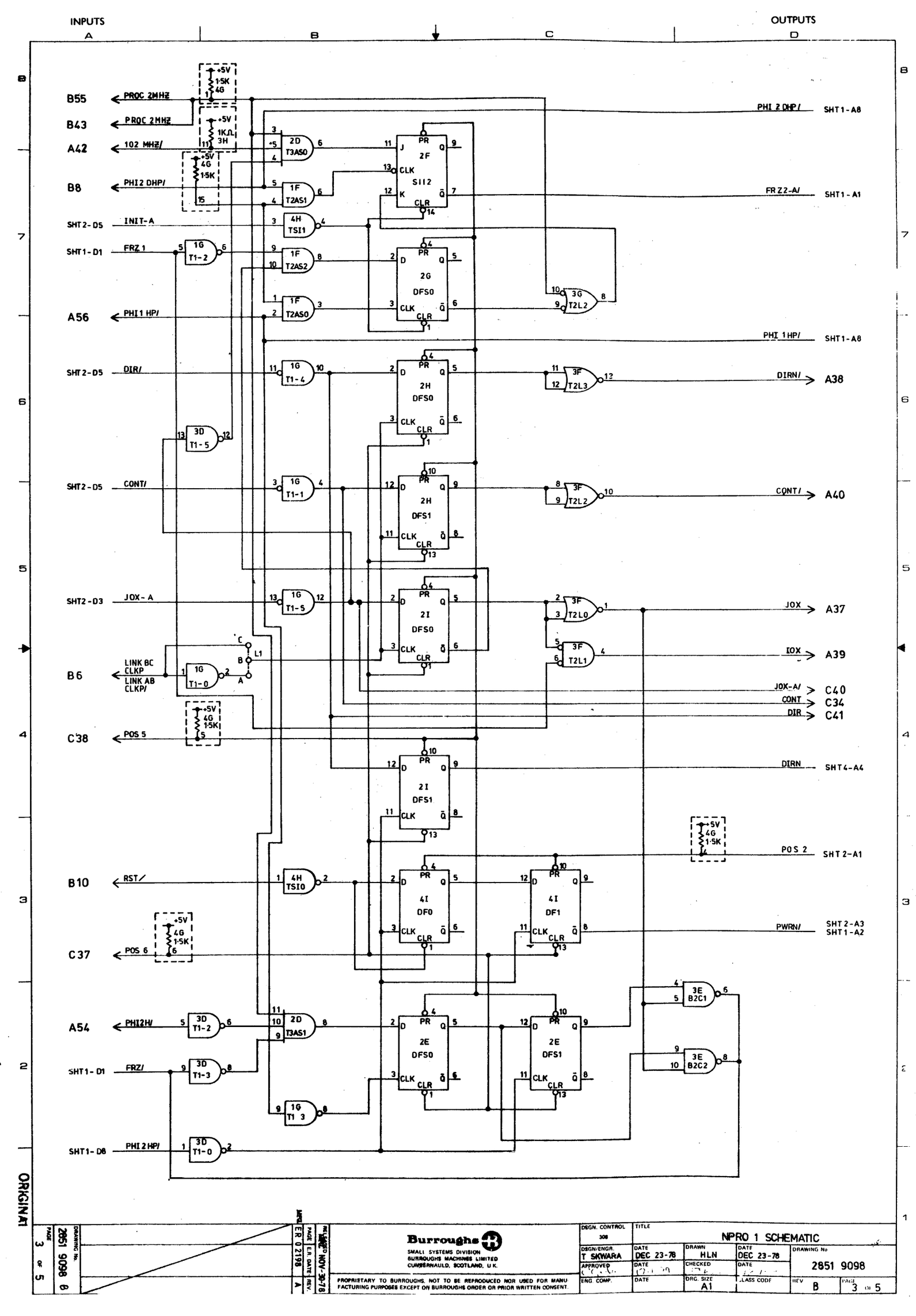
INPUTS A B C OUTPUTS D



ORIGINAL

PAGE 2 of 5	DRAWING No. 2851 9098 B	E.R. 02198 A	E.R. DATE NOV 30 78	REV.	DSGN. CONTROL 308	TITLE NPRO 1 SCHEMATIC	
					DSGN/ENGR. T SKWARA	DATE DEC 23-78	DRAWN H.L.N. DATE DEC. 23-78 DRAWING No. 2851 9098
					APPROVED	DATE	CHECKED DATE
					ENG. COMP.	DATE	DRG. SIZE A1 CLASS CODE REV. B PAGE 2 of 5

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.



ORIGINAL

DRAWING No. 2851 9098 B				DSGN. CONTROL 308	TITLE NPRO 1 SCHEMATIC		
PAGE 3 OF 5	MPLR E.R. 0 2198	PAGE E.R. DATE	REV. A	DSGN/ENGR. T SKWARA	DATE DEC 23-78	DRAWN HLN	DATE DEC 23-78
				APPROVED (illegible)	DATE 12-1-79	CHECKED (illegible)	DATE (illegible)
				ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE

RELEASED NOV-30-78

Burroughs

SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DRAWING No 2851 9098

REV B PAGE 3 OF 5

INPUTS A B C OUTPUTS D

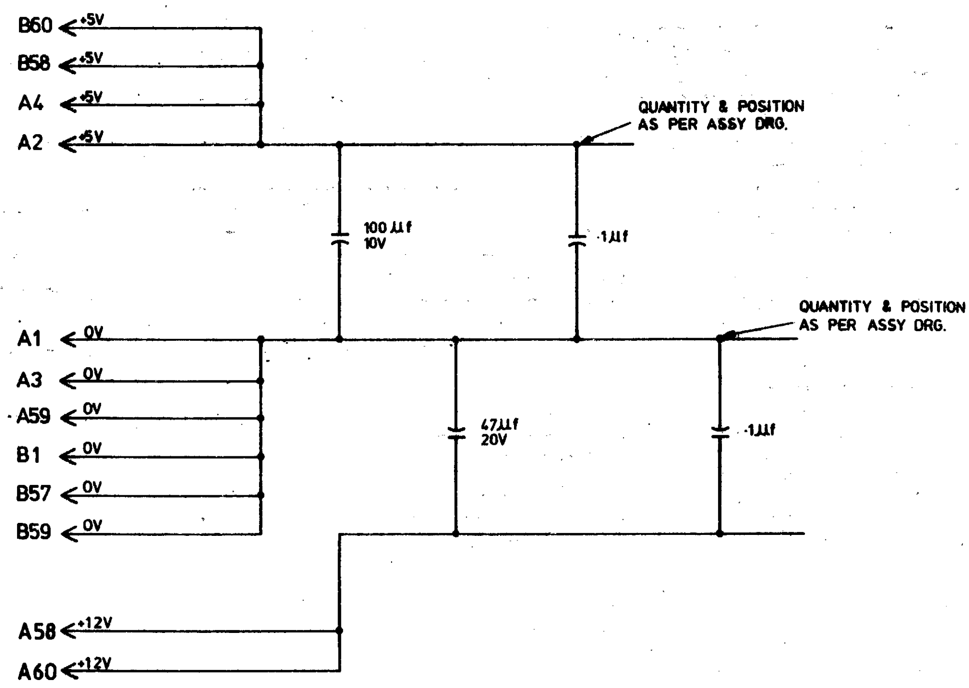
SHT.2-D7 I/O-0
SHT.2-D7 I/O-1
A6 PRD0 +5V R15 220Ω
A8 PRD1 +5V R14 220Ω
A10 PRD2 +5V R16 220Ω
A12 PRD3 +5V R17 220Ω
+5V R9 220Ω
SHT.2-D7 I/O-2
SHT.2-D7 I/O-3
SHT.1-D2 XMA8
SHT.1-D2 XMA9
SHT.2-D7 I/O-4
SHT.2-D6 I/O-5
A14 PRD4 +5V R10 220Ω
A16 PRD5 +5V R11 220Ω
A18 PRD6 +5V R13 220Ω
A20 PRD7 +5V R12 220Ω
SHT.3-D4 DIRN
SHT.2-D6 I/O-6
SHT.2-D6 I/O-7
C31 POS 4 15K 4G
D13 WTCONT +5V 15K 4G
B56 TRICONT
D15 XMACONT +5V 15K 4G
D14 MACONT +5V 15K 4G
B48 ASELEN +5V 15K 4G
SHT.2-D4 ASEL-A

3A BDBD: DI0 DI1 DI2 DI3 DE RE → DO0 DO1 DO2 DO3 RO0 RO1 RO2 RO3
3B BDBD: DI0 DI1 DI2 DI3 DE RE → DO0 DO1 DO2 DO3 RO0 RO1 RO2 RO3 → WT0 A5, WT1 A7
2B BDBD: DI0 DI1 DI2 DI3 DE RE → DO0 DO1 DO2 DO3 RO0 RO1 RO2 RO3 → WT2 A9, WT3 A11
6I: A0 A1 A2 A3 A4 A5 G0 G1 → Y0 Y1 Y2 Y3 Y4 Y5
TITS: Y4 → XMA8/ D41; Y5 → XMA9/ D40
1B BDBD: DI0 DI1 DI2 DI3 DE RE → DO0 DO1 DO2 DO3 RO0 RO1 RO2 RO3 → WT4 A13, WT5 A15
2A BDBD: DI0 DI1 DI2 DI3 DE RE → DO0 DO1 DO2 DO3 RO0 RO1 RO2 RO3
2C BDBD: DI0 DI1 DI2 DI3 DE RE → DO0 DO1 DO2 DO3 RO0 RO1 RO2 RO3 → WT6 A17, WT7 A19
4F A2L2
3G T2L0 → XMACONT/ SHT.1-A2
3G T2L1 → MACONT/ SHT.1-A4
4F A2L0 → ASEL B47

PAGE 4 OF 5	DRAWING No 2851 9098 8	MFR ER 02198	PAGE	RELEASED NOV-30-78	Burroughs SMALL SYSTEMS DIVISION BURROUGHS MACHINES LIMITED CUMBERNAULD, SCOTLAND, U.K.	DSGN. CONTROL 308	TITLE NPRO 1 SCHEMATIC		
			E.R. DATE			DSGN/ENGR T. SKWARA	DATE DEC. 23-78	DRAWN HLN	DATE DEC. 23-78
			REV A			APPROVED	DATE	CHECKED	DATE
						ENG. COMP	DATE	DRG. SIZE A1	CLASS CODE

DRAWING No 2851 9098 REV B PART 4 OF 5

INPUTS | A | B | C | D | OUTPUTS



NOTES:- (FOR NPRO 1 AT IMHZ ONLY)

1. WHEN USING TM LSI (PART Nº 2574 4335)
OR
WHEN USING ALU LSI (PART Nº 2574 4327)
THE CHANGES SHOWN IN FIG 1
MUST BE EMPLOYED.
PACKAGE 4A HAS TO BE INSERTED AND
TRACK CUT AS SHOWN IN FIGURE 1 NEAR PACKAGE
5B PIN 1 ALSO TRACK MUST BE CUT AS SHOWN IN
FIG 2, AND THE TWO VIA HOLES BELOW PACKAGE
4G BE LINKED AS SHOWN IN FIGURE 2

ALL OTHER APPLICATIONS

2 WHEN NPRO 1 IS USED ON B82 OR B80-10
MACHINES LINK L1 SHOULD BE INSERTED
BETWEEN B & C
WHEN NPRO 1 IS USED ON B900 MACHINES
LINK L1 SHOULD BE INSERTED BETWEEN A & B.

3 FOR ASSY. DRG. SEE 2851 9031

4 RESISTANCE VALUES ARE IN OHMS

5 CODES FOR COMPONENT PART Nos ARE
AS BELOW:-

T2LN	74LS00	2607	1787
T1N	74S04	2600	1495
AL2N	74LS08	2846	6647
T2AS	74S08	2604	6805
T3AS	74S11	2600	1511
TS1N	7414	1863	4477
B2NN	7428	2603	2607
B2CN	7438	1447	3581
DFSN	74S74	2600	1537
DF-N	7474	1447	3607
S112	74S112	2602	7417
BDBD	8T28	1959	5768
TITS	8096	2602	7292
BTSN	8097	1948	5051
3245	3245	2574	6975

RESISTORS:-	R1 R2 & R3	1268	1003
	R4 R5 & R6	1268	1433
	R8	1268	1177
	R9 THRU R17	1268	1151
CAPACITORS:-	C1	1267	9262
	C2	1267	9353
	C3 THRU C27	2848	3956
DIL RESISTOR PACK	4G	2606	0426
	3H	1737	0255
	3C	2606	0392
LSI CHIP	ALU	2799	5943
	TM	2799	5935
	MA	2574	4319
	XMA	2797	3759

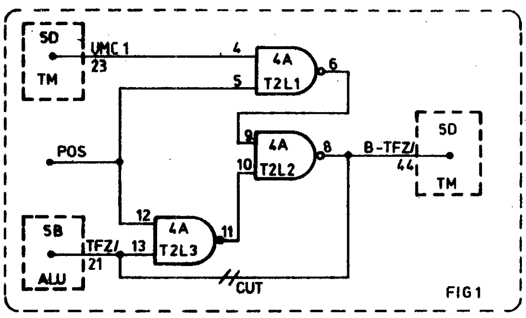


FIG 1

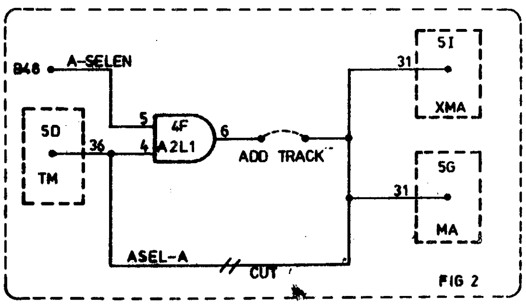
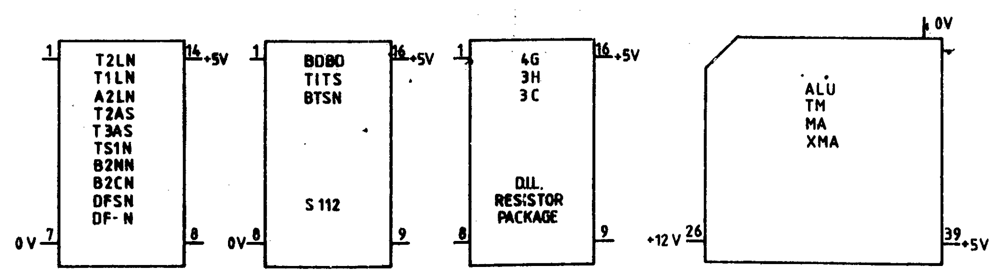
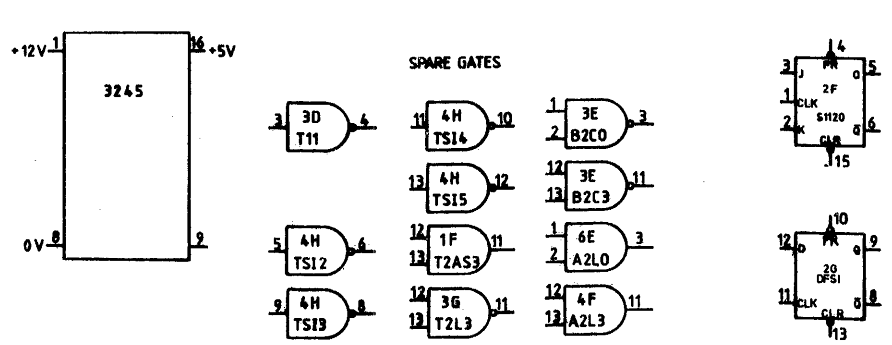


FIG 2





DSGN. CONTROL	TITLE				
308	NPRO 1 SCHEMATIC				
DSGN/ENGR. T SKWARA	DATE DEC. 23-78	DRAWN H.L.N.	DATE DEC. 23-78	DRAWING No. 2851 9098	
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE	REV. B	PAGE 5 of 5

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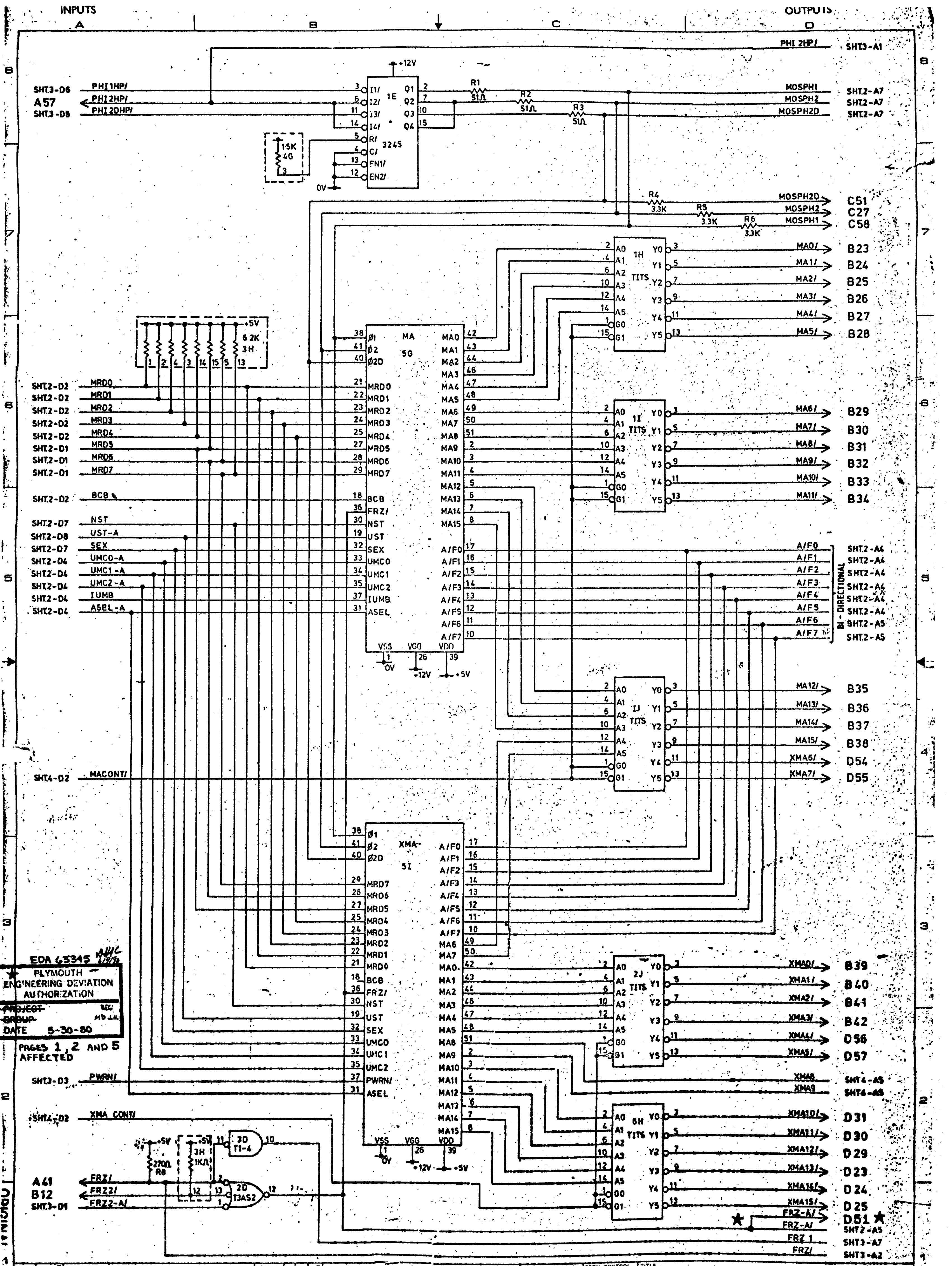
MFG. RELEASED NOV-30-78 | ER 02198 | REV. A

DRAWING No. 2851 9098 B | PAGE 5 of 5



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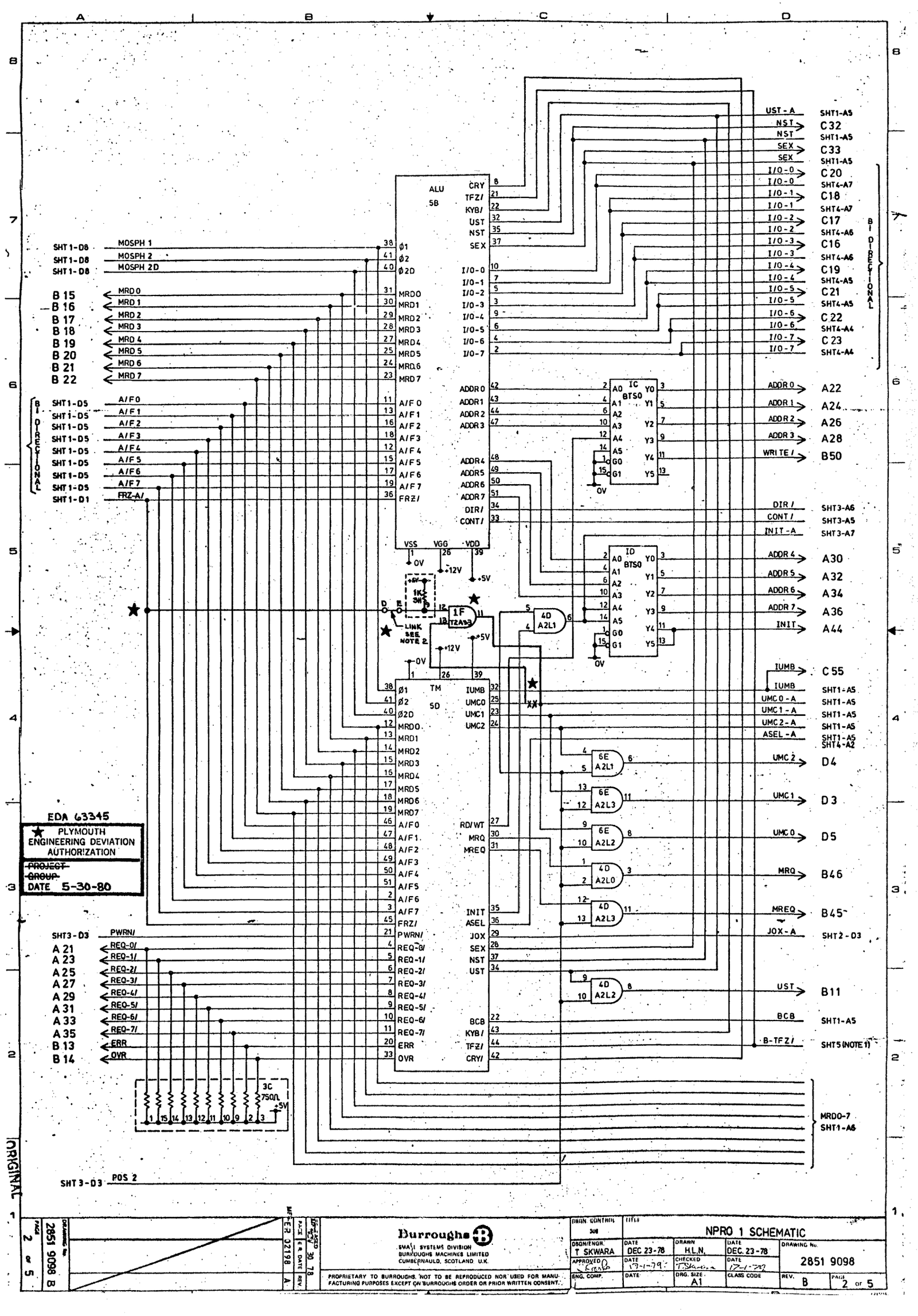
DSGN. CONTROL	TITLE			
308	NPRO 1 SCHEMATIC			
DSGN/ENGR. T. SKWARA	DATE DEC. 23-78	DRAWN H.L.N.	DATE DEC. 23-78	DRAWING No. 2851 9098
APPROVED	DATE	CHECKED	DATE	
ENG. COMP.	DATE	DWG. SIZE A1	CLASS CODE	REV B PAGE 1 of 5

ECN 02723 AMM FEB 23-79 1,3,5 ALT. | ER 02198 B | RELEASED NOV-30-78

PAGE 1 of 5 DRAWING No. 2851 9098 B



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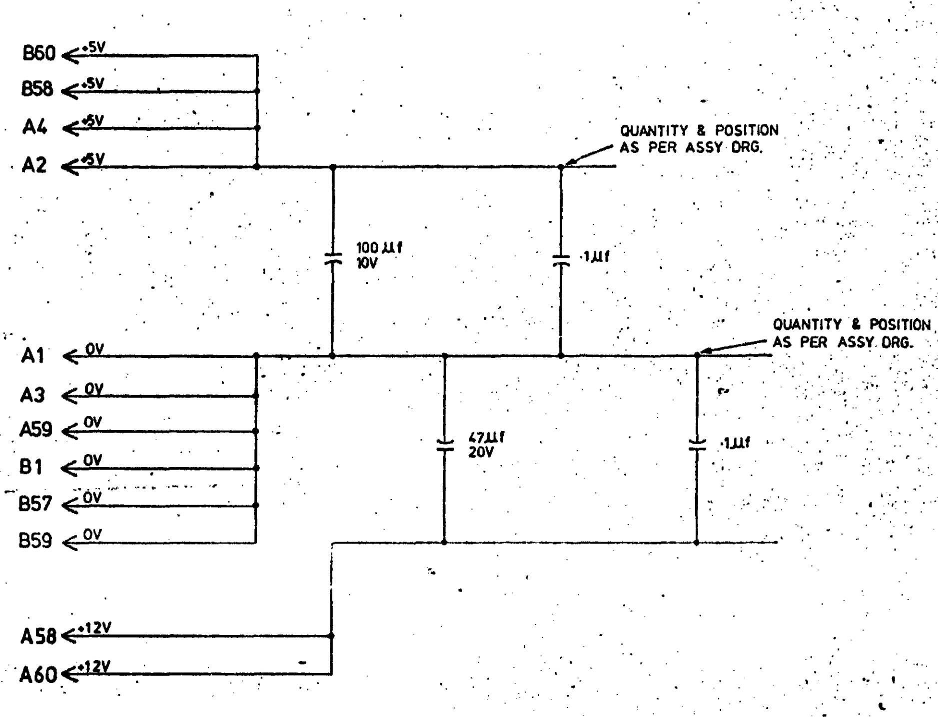
ORGN. CONTRIB. 308	TITLE: NPRO 1 SCHEMATIC				
ORGN/ENGR. T SKWARA	DATE DEC 23-78	DRAWN H.L.N.	DATE DEC. 23-78	DRAWING No. 2851 9098	
APPROVED	DATE 17-1-79	CHECKED T Skwara	DATE 17-1-79		
ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE	REV. B	PAGE 2 OF 5

PAGE 2 OF 5	DRAWING No. 2851 9098 B	MFR 32198	REVISED NOV 30 78	REV. A



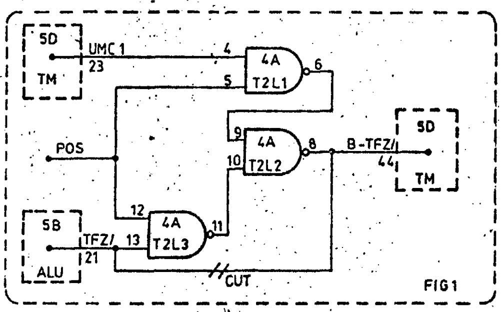


FIG 1

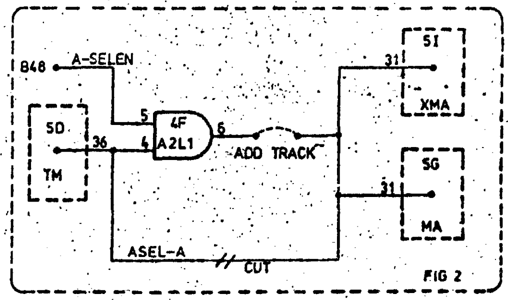


FIG 2

NOTES:- (FOR NPRO 1 AT IMHZ ONLY)

1. WHEN USING TM LSI (PART Nº 2574 4335) OR WHEN USING ALU LSI (PART Nº 2574 4327) THE CHANGES SHOWN IN FIG 1 MUST BE EMPLOYED. PACKAGE 4A HAS TO BE INSERTED AND TRACK CUT AS SHOWN IN FIGURE 1 NEAR PACKAGE 5B PIN 1 ALSO TRACK MUST BE CUT AS SHOWN IN FIG 2, AND THE TWO VIA HOLES BELOW PACKAGE 4G BE LINKED AS SHOWN IN FIGURE 2

★ 2. LINK LOCATED IN CONNECTION TO PACKAGE 1F PIN 12 MUST BE CUT. LINK IS PHYSICALLY LOCATED ON SOLDER SIDE OF BOARD BETWEEN POINTS D AND E; FROM VIA HOLE BELOW PIN 6 OF PACKAGE 3H TO PIN 9 OF PACKAGE 3H.

ALL OTHER APPLICATIONS

★ 3. WHEN NPRO 1 IS USED ON B82 OR B80-10 MACHINES LINK L1 SHOULD BE INSERTED BETWEEN B & C
WHEN NPRO 1 IS USED ON B900 MACHINES LINK L1 SHOULD BE INSERTED BETWEEN A & B.

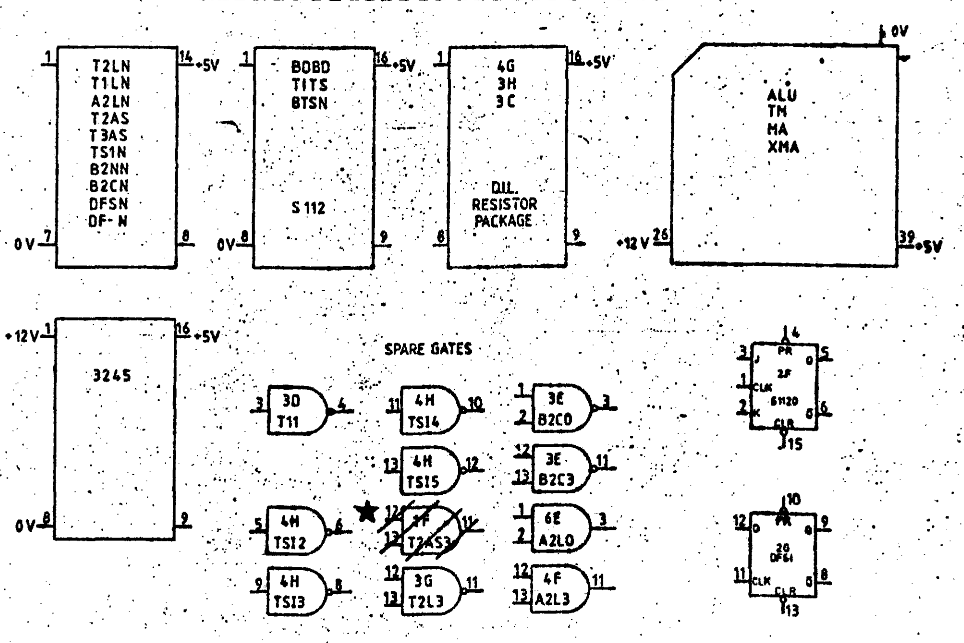
★ 4. FOR ASSY. DRG. SEE 2851 9031 AND 2853 9716 ★

★ 5. RESISTANCE VALUES ARE IN OHMS

★ 6. CODES FOR COMPONENT PART Nºs ARE AS BELOW:-

T2LN	74LS00	2607	1787
T1N	74S04	2600	1495
AL2N	74LS08	2846	6647
T2AS	74S08	2604	6805
T3AS	74S11	2600	1511
TS1N	7414	1863	4477
B2NN	7428	2603	2607
B2CN	7438	1447	3581
DFSN	74S74	2600	1537
DF-N	7474	1447	3607
S112	74S112	2602	7417
BOBO	8T28	1959	5768
TITS	8096	2602	7292
BTSN	8097	1948	5051
3245	3245	2574	6975

RESISTORS:-	R1 R2 & R3	1268	1003
	R4 R5 & R6	1268	1433
	R8	1268	1177
	R9 THRU R17	1268	1151
CAPACITORS:-	C1	1267	9262
	C2	1267	9353
	C3 THRU C27	2848	3956
DIL RESISTOR PACK	4G	2606	0426
	3H	1737	0255
	3C	2606	0392
LSI CHIP	ALU	2799	5943
	TM	2799	5935
	MA	2574	4319
	XMA	2797	3759



EDA 63345

★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
~~PROJECT~~
~~GROUP~~
DATE 5-30-80

PAGE 5 of 5	DRAWING No. 2851 9098 B	MFG. ER 0219B	MFG. RELEASED NOV-30-79

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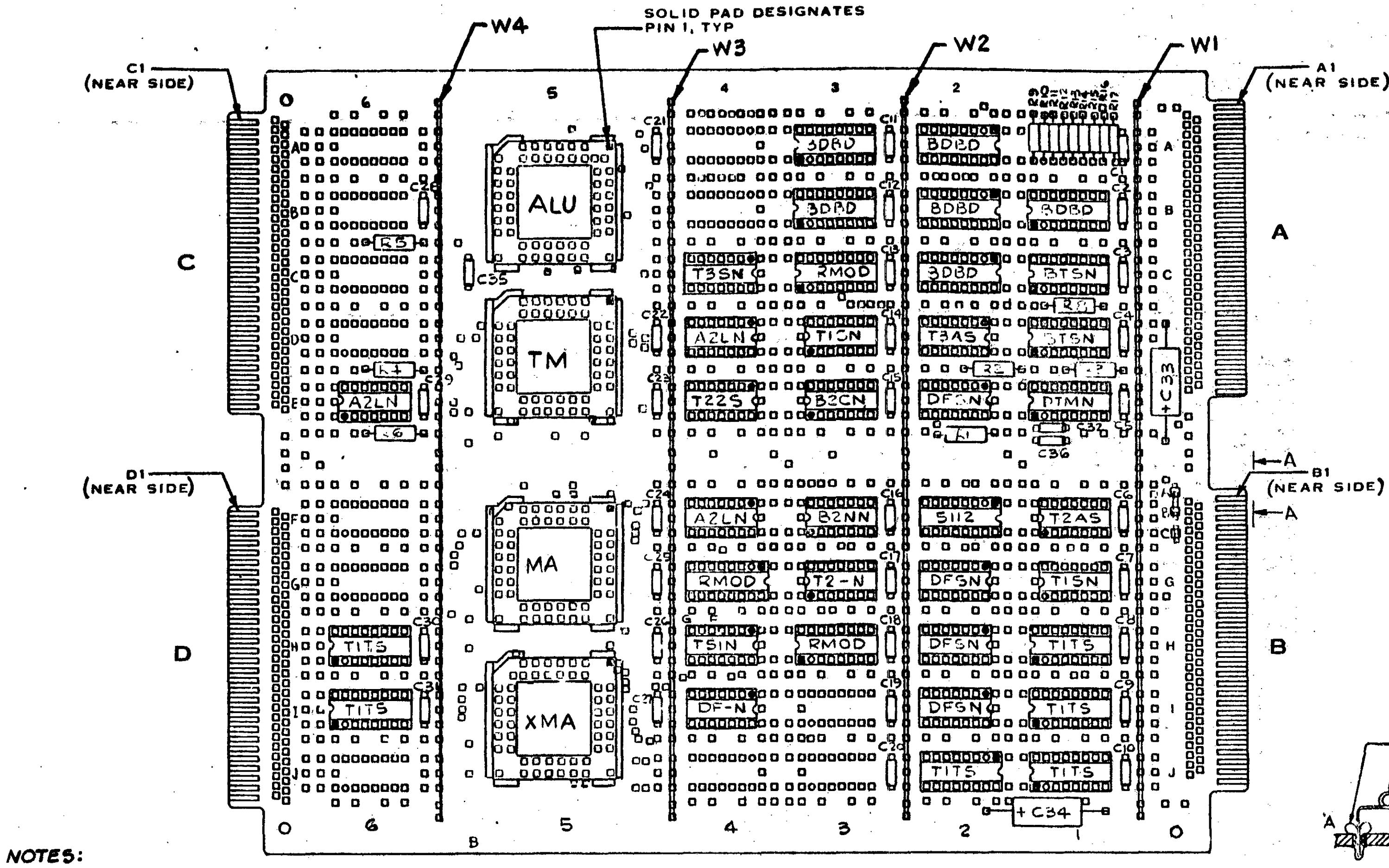
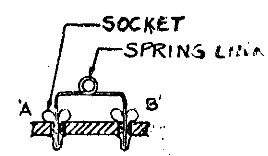
DSGN. CONTROL 308	TITLE NPRO 1 SCHEMATIC			
DSGN/ENGR. T. SKWARA	DATE DEC. 23-78	DRAWN H.L.N.	DATE DEC. 23-78	DRAWING No. 2851 9098
APPROVED	DATE 10-1-79	CHECKED	DATE 12-1-79	
ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE	REV. B / PAGE 5 of 5





SECTION AA
ROTATED 90° CW

NOTES:

1. FOR LOGIC DIAGRAM, SEE 2854 4716.
2. △ 16 PIN SOCKET, ▭ 14 PIN SOCKET, ⬡ 51 PIN SUPPORT.

LOC/DES	PART NO.	LOGIC DIAG SHEET NO.	NOTE 2
1A			
1B	1959 5768	6	△
1C	1948 5051	3	△
1D	1948 5051	3	△
1E	2574 6975	2	△
1F	2604 6805	4,5	▭
1G	2600 1495	5,7	▭
1H	2602 7292	2	△
1I	2602 7292	2	△
1J	2602 7292	1	△
2A	1959 5768	6	△
2B	1959 5768	6	△
2C	1959 5768	6	△
2D	2600 1511	5,7,9	▭
2E	2600 1537	7	▭
2F	2602 7417	5,9	△
2G	2600 1537	5,9	▭
2H	2600 1537	5	▭
2I	2600 1537	5	▭
2J	2602 7292	1	△
3A	1959 5768	6	△
3B	1959 5768	6	△
3C	2606 0392	4,9	△
3D	2600 1495	1,5,7	▭
3E	1447 3581	7,9	▭
3F	2603 2607	5	▭
3G	1447 3516	5,7,9	▭
3H	1737 0255	1,2,4,5,9	△
3I			
3J			

LOC/DES	PART NO.	LOGIC DIAG SHEET NO.	NOTE 2
4A			
4B			
4C	2600 1503	1	▭
4D	2846 6647	4	▭
4E	2606 4865	7,9	▭
4F	2846 6647	6,7,9	▭
4G	2606 0426	2,5,6,7,9	△
4H	1863 4477	5,7,9	▭
4I	1447 3607	7	▭
4J			
5A			
5B	2799 5943	3,8	⬡
5C			
5D	2799 5935	4,8	⬡
5E			
5F			
5G	2574 4319	2	⬡
5H			
5I	2797 3759	1	⬡
5J			
6A			
6B			
6C			
6D			
6E	2846 6647	4,9	▭
6F			
6G			
6H	2602 7292	1	△
6I	2602 7292	7	△
6J			

LOC/DES	PART NO.	LOGIC DIAG SHEET NO.	NOTE 2

QTY	PART NO.	DESCRIPTION
1EA	1267 9262	C33
1EA	1267 9353	C34
3EA	1265 3556	R1, R2, R3
9EA	1268 1151	R9-R17
1EA	1268 1284	R8
3EA	1268 1433	R4, R5, R6
34EA	2848 3956	C1-C32, C35, C36
4EA	2849 5786	BUSBAR ASSY
18EA	2853 5706	14 PIN SOCKET
19EA	2853 5714	16 PIN SOCKET
4EA	1532 8123	51 PIN SUPPORT
3	1239 1306	SOCKET
1	1536 3674	SPRING LINK
1	2854 2249	PWB

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DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
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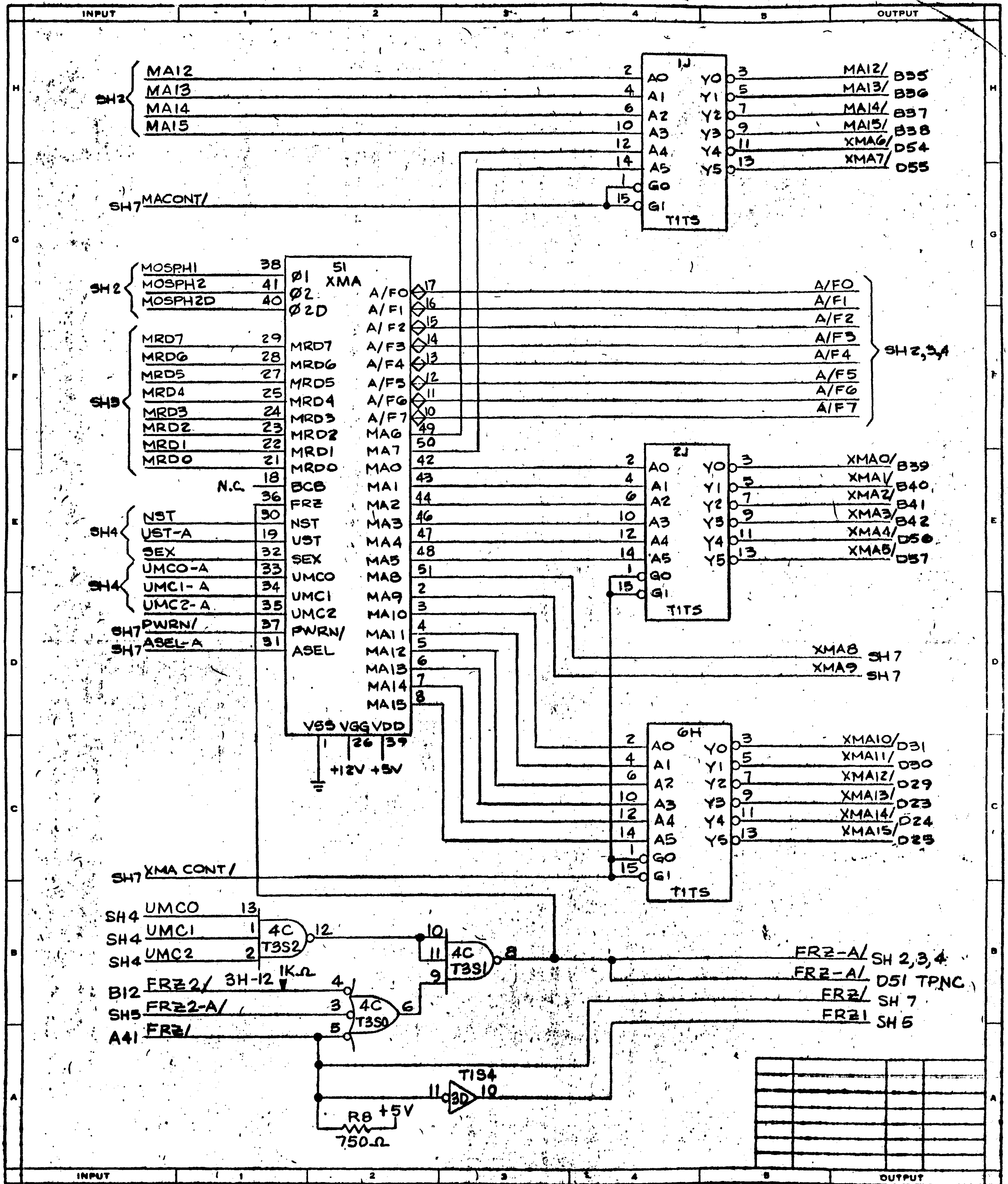
REV	E	B	B
SH	1	2	3

REVISIONS: A — REL PER ECN 3/10 7432A; B — ECN 9547A, RG 4-4-80; C — ECN 9647A SH 1 C8 5-23-80; D — ECN 9864A SH 1 C8 7-2-80; E — ECN 10142A SH C8

GEN QUAL SPEC 1183 5843 APPLY

DOC TYPE	DRAWN	DATE	TITLE	CLASS CODE
SA	J. D. CORR	9 FEB 80	PWB ASSEMBLY	2-7045
DSGN CONT 038	CHECKED	3-7-80	NPROIA	
SHEET 1 OF 3	APPROVED	3-10-80	DWG SIZE C / SCALE 1 / DWG NO. 2854 4708	REV E

DTM 96-1 REV. 6-79



REV	D	A	A	B	B	A	B	A	D
SH	1	2	3	4	5	6	7	8	9

REVISIONS: A REL PER ECN 9431 3-13-80; B ECN 9547A; C ECN 9814A SH2, 6; D ECN 9896A SH9

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DRAWN J. DOERR — DATE 11 FEB 80
CHECKED C.A. BISCHOFF — DATE 2-7-80
DSGN OR ENGR — DATE 2-8-80
APPROVED

TITLE NPRO1A

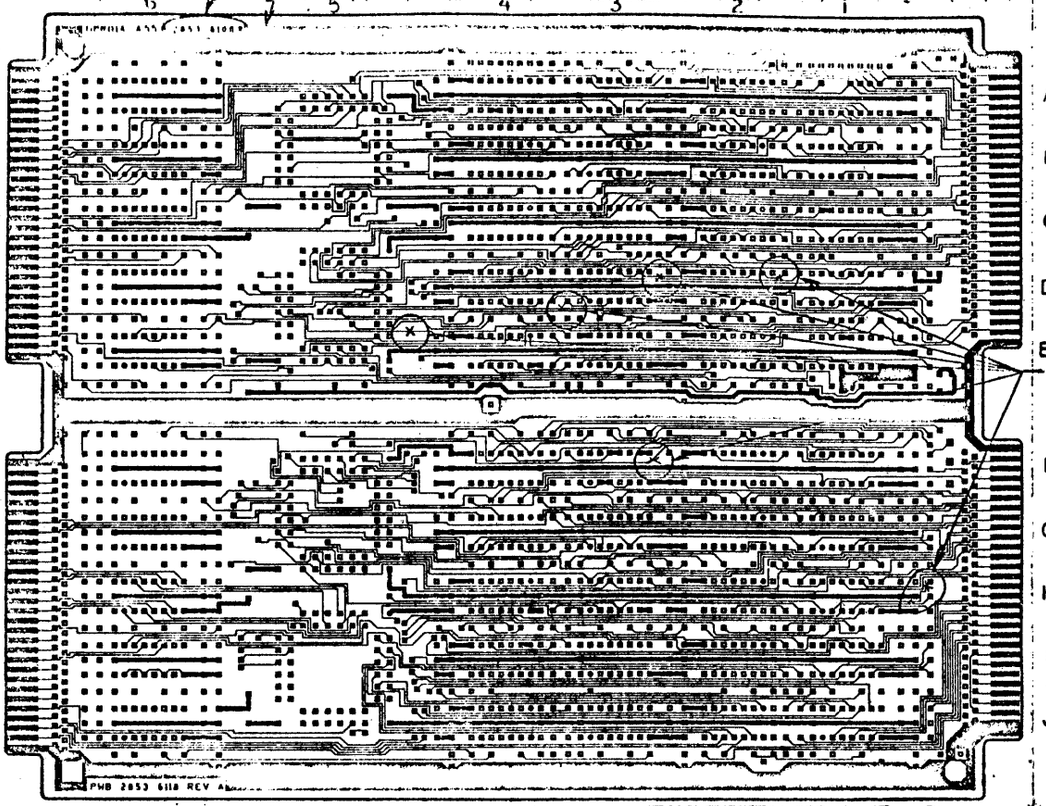
CLASS CODE 2-9520

SHEET 1 of 9 — DWG NO. 2854 4716 — PLT NO. 038 — REV D

DTH 96 REV 3-76

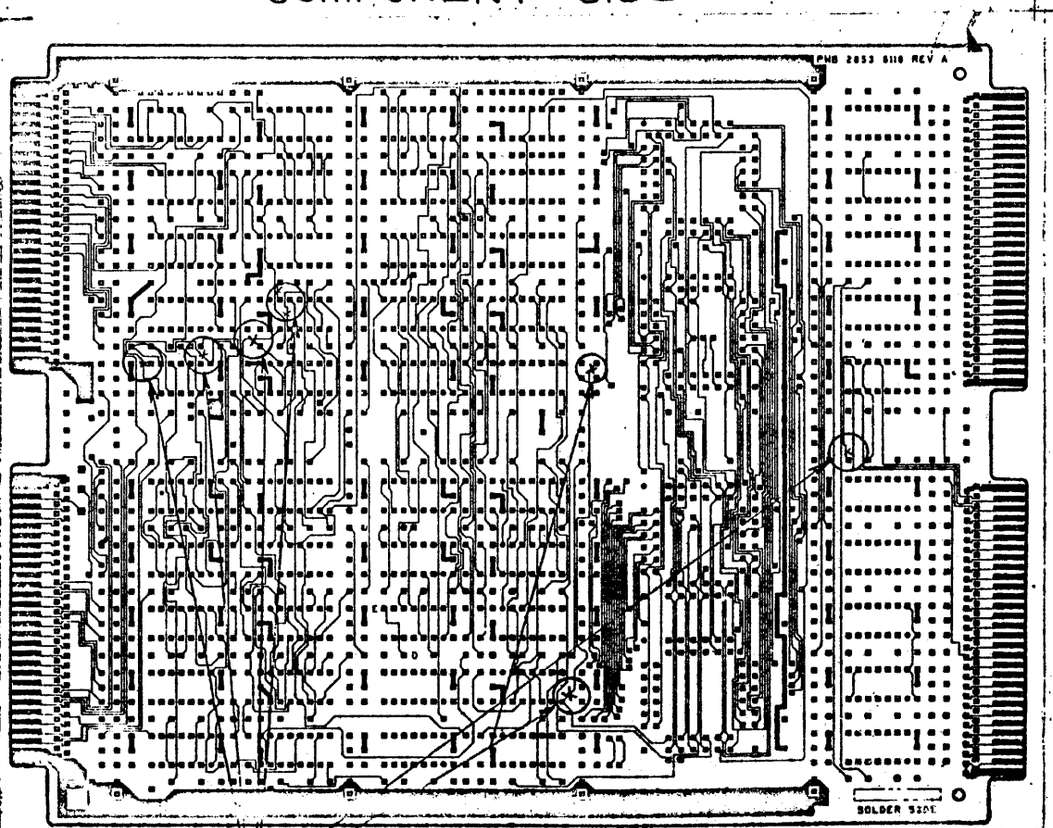
REIDENTIFY AS "2854 4708

MARK REV "B"



"X" INDICATES CUT IN COPPER TYP 7 PLACES THIS SIDE

COMPONENT SIDE



"X" INDICATES CUT IN COPPER TYP 8 PLACES THIS SIDE

APPLICABLE TO PWB 2853 6118 ONLY

2854 4708

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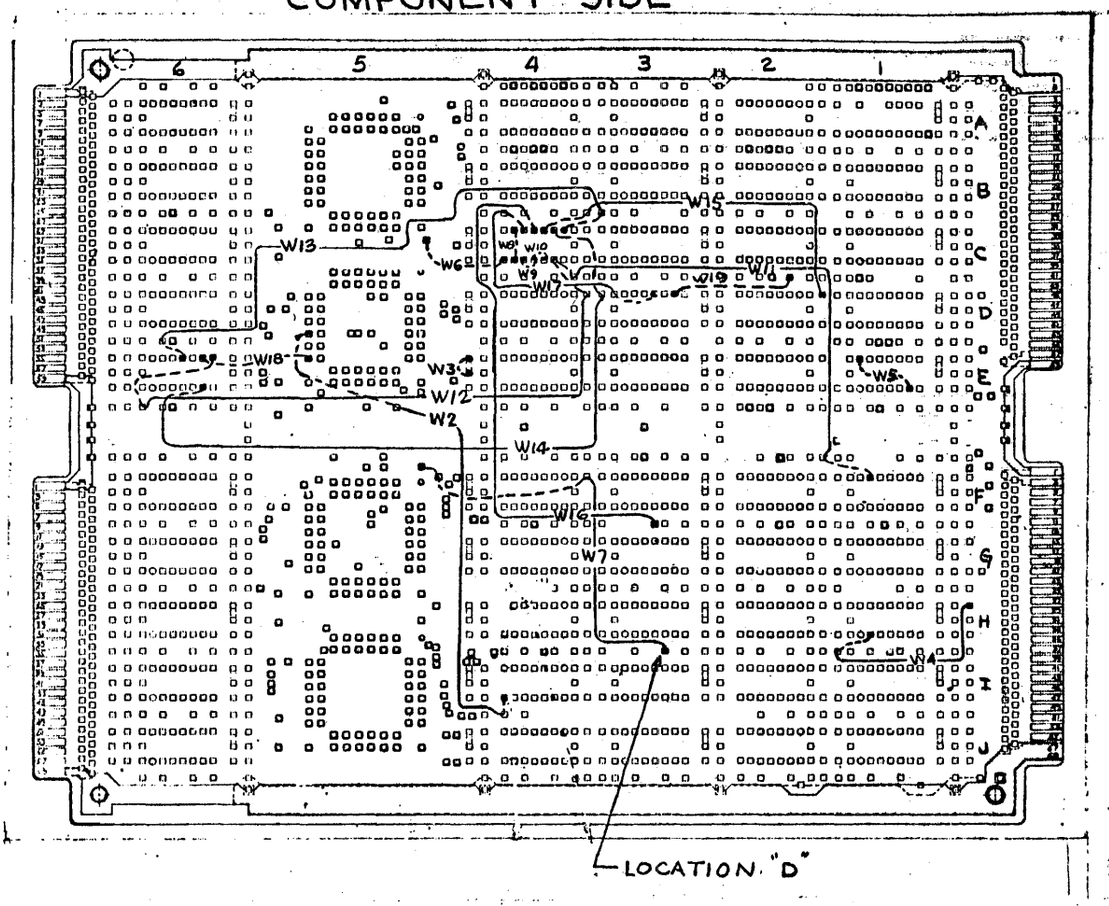
REVISIONS (CONT)

DOC TYPE	TITLE	CLASS CODE
SA	PWB. ASSEMBLY	2-7045
DSGN CONT 038	NPROIA	
SHEET 2	DWG SIZE C	DWG. NO. 2854 4708 REV B

COMPONENT SIDE



CONNECTIONS ACCOMPLISHED BY JUMPER WIRES

W2 : LOC 5D-21 TO LOC 5I-37
W3 : CAP C23 TO VCC
W4 : LOC 1H-3 TO B23
W5 : LOC 1E-15 TO LOC 1E-7
W6 : LOC 4C-8 TO LOC 5D-45
W7 : LOC "D" TO LOC 5D-45
W8 : LOC 4C-9 TO LOC 4C-6
W9 : LOC 4C-10 TO LOC 4C-11
W10 : LOC 4C-11 TO LOC 4C-12
W11 : LOC 4C-13 TO LOC 1F-13
W12 : LOC 4C-13 TO LOC 6E-8
W13 : LOC 4C-1 TO LOC 6E-11
W14 : LOC 4C-2 TO LOC 6E-6
W15 : LOC 4C-3 TO LOC 2F-7
W16 : LOC 4C-4 TO LOC 3H-12
W17 : LOC 4C-5 TO LOC 3D-11
W18 : LOC 5D-25 TO LOC 6E-9
W19 : LOC 3D-9 TO LOC R8

CONNECTIONS SEVERED BY CUTS

LOC 5I-37 TO CAP C23
LOC 5D-21 TO CAP C23
LOC 1H-3 TO VCC
LOC 1E-15 TO LOC 1E-7
LOC 2D-1 TO LOC 2F-7
LOC 2D-2 TO LOC A41
LOC 2D-2 TO LOC 3D-9
LOC 2D-12 TO LOC 5D-45
LOC 2D-12 TO LOC "D"
LOC 1F-13 TO LOC 5D-25
LOC 6E-9 TO LOC 1F-11
LOC 2D-13 TO LOC 3H-12

TABLE I

WIRE		WIRE DESIG	
AWG	COLOR		
26	BLK	W2 - W5	
	RED	W6 - W19	

APPLICABLE TO 2853 6118 ONLY

REVISIONS (CONT)

DOC TYPE	TITLE	CLASS CODE
SA	PWB ASSEMBLY	2-7045
DSGN CONT	NPR01A	
038		
SHEET	DWG SIZE	DWG. NO.	REV
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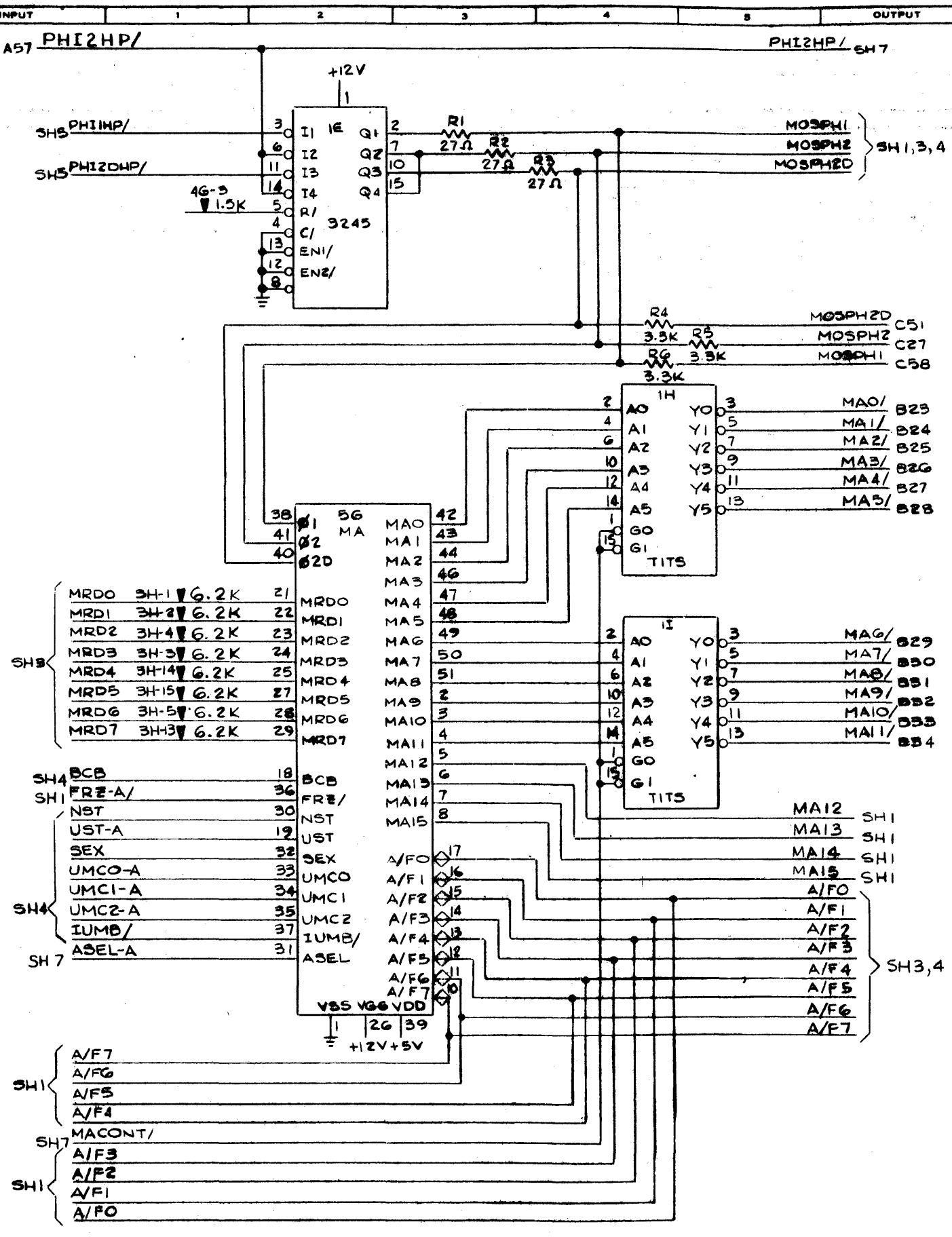

INPUT 1 2 3 4 5 OUTPUT

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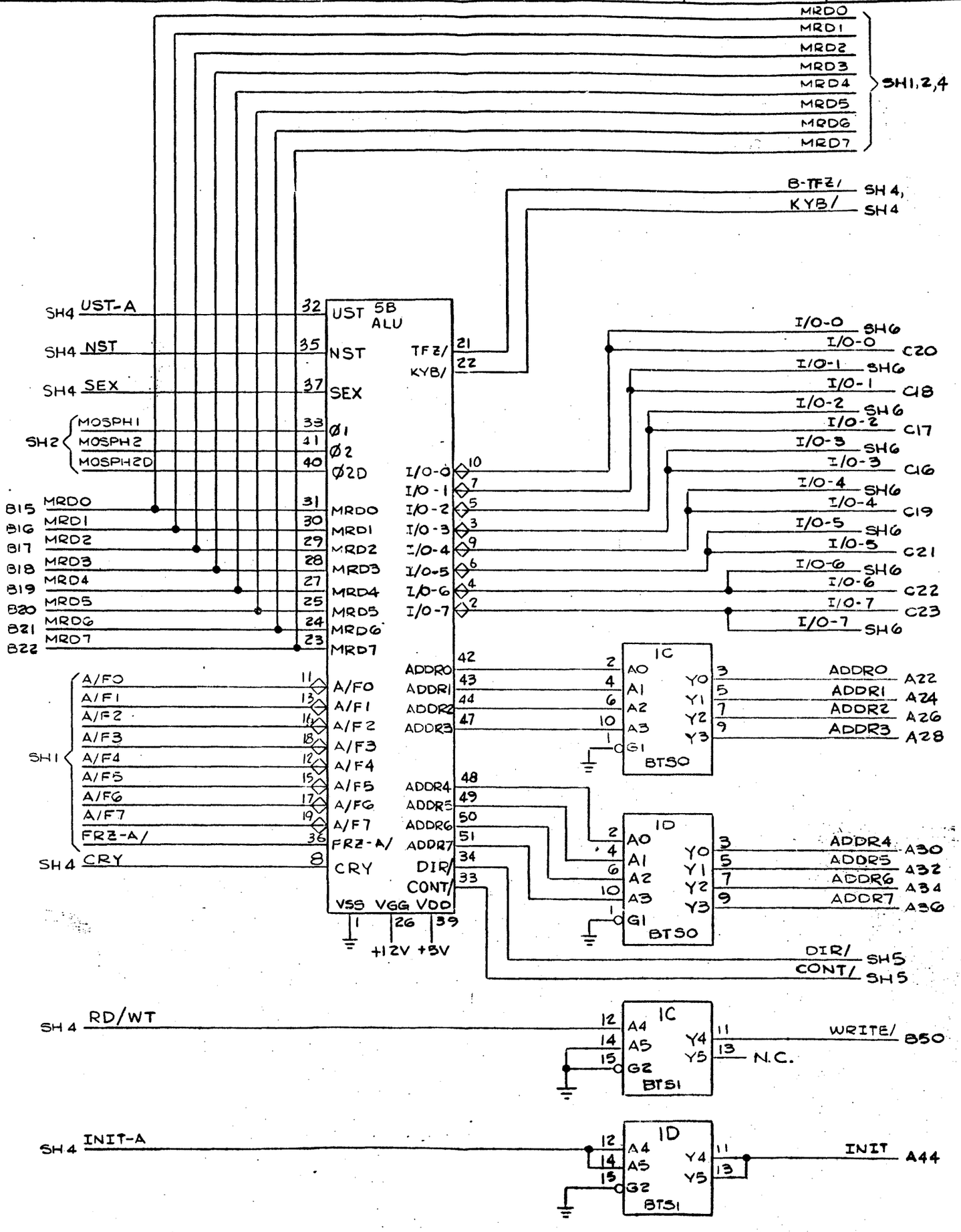
REVISIONS (CONT)

TITLE	CLASS CODE
NPRO 1A	2-9520

SHEET	DWG NO.	DSGN CONT	REV
2	2854 4716	038	C

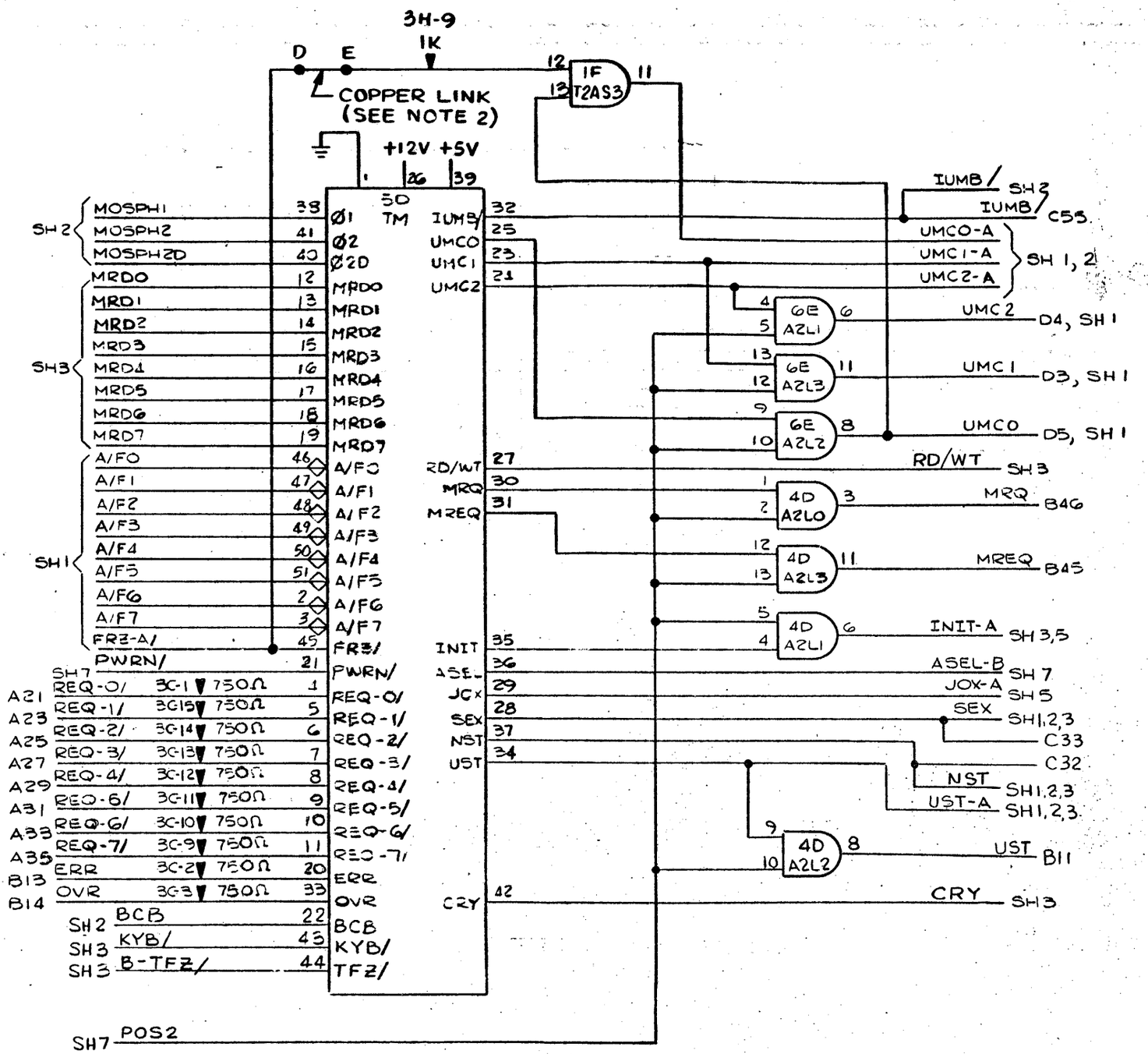
DTH 100 REV 6-77



REVISIONS (CONT)

TITLE	CLASS CODE
NPRO 1A	2-9520

SHEET	DWG NO.	DSGN CONT	REV
3	2854 4716	038	A



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REVISIONS (CONT)

TITLE	CLASS CODE
NPRO 1A	2-9520

SHEET	DWG NO.	DSGN CONT	REV
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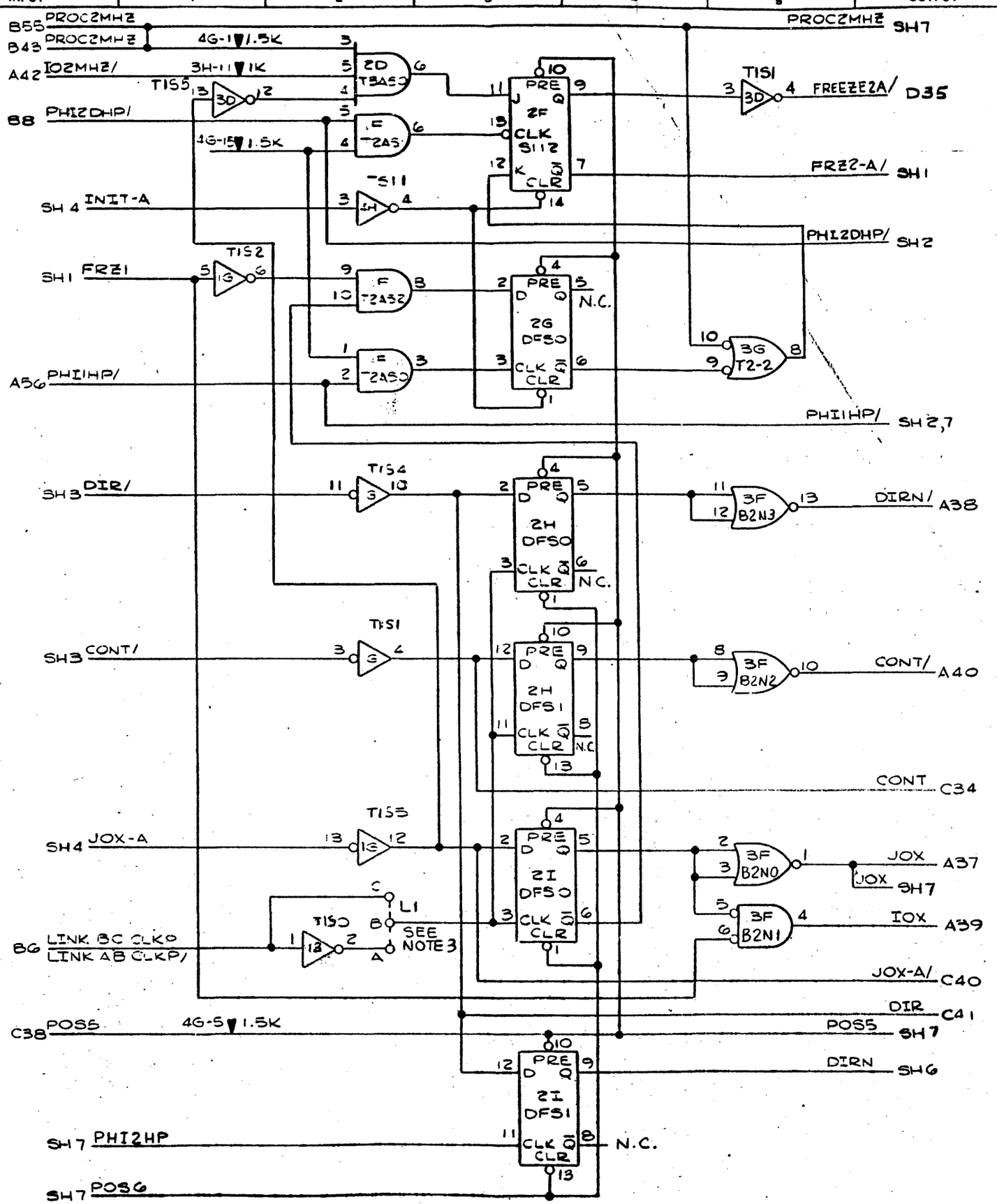
DTN 169 REV 8-77



TITLE	CLASS CODE
NPRO 1A	2-9520

SHEET	DWG NO.	DSGN CONT	REV
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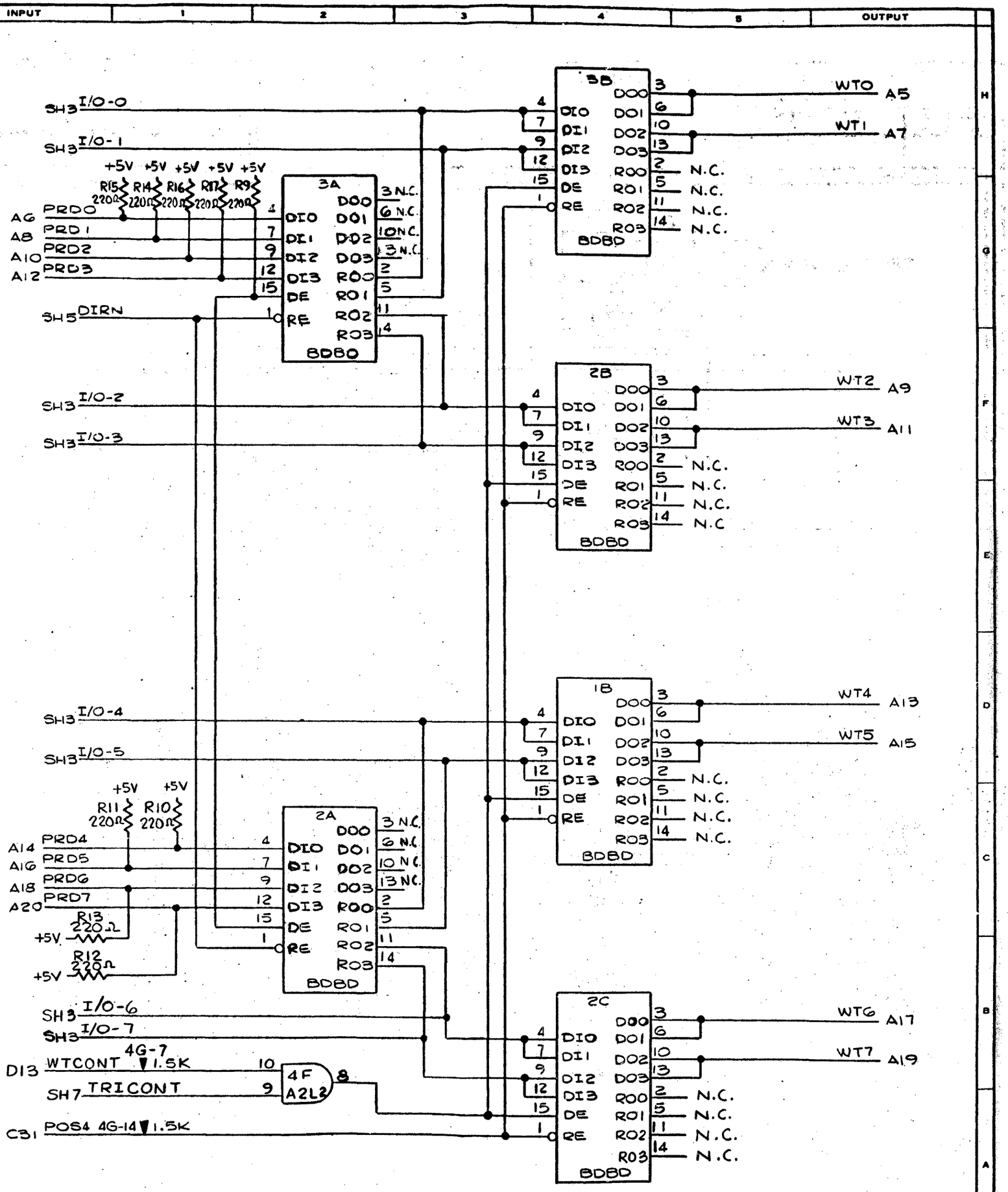
DTN 168 REV 8-72



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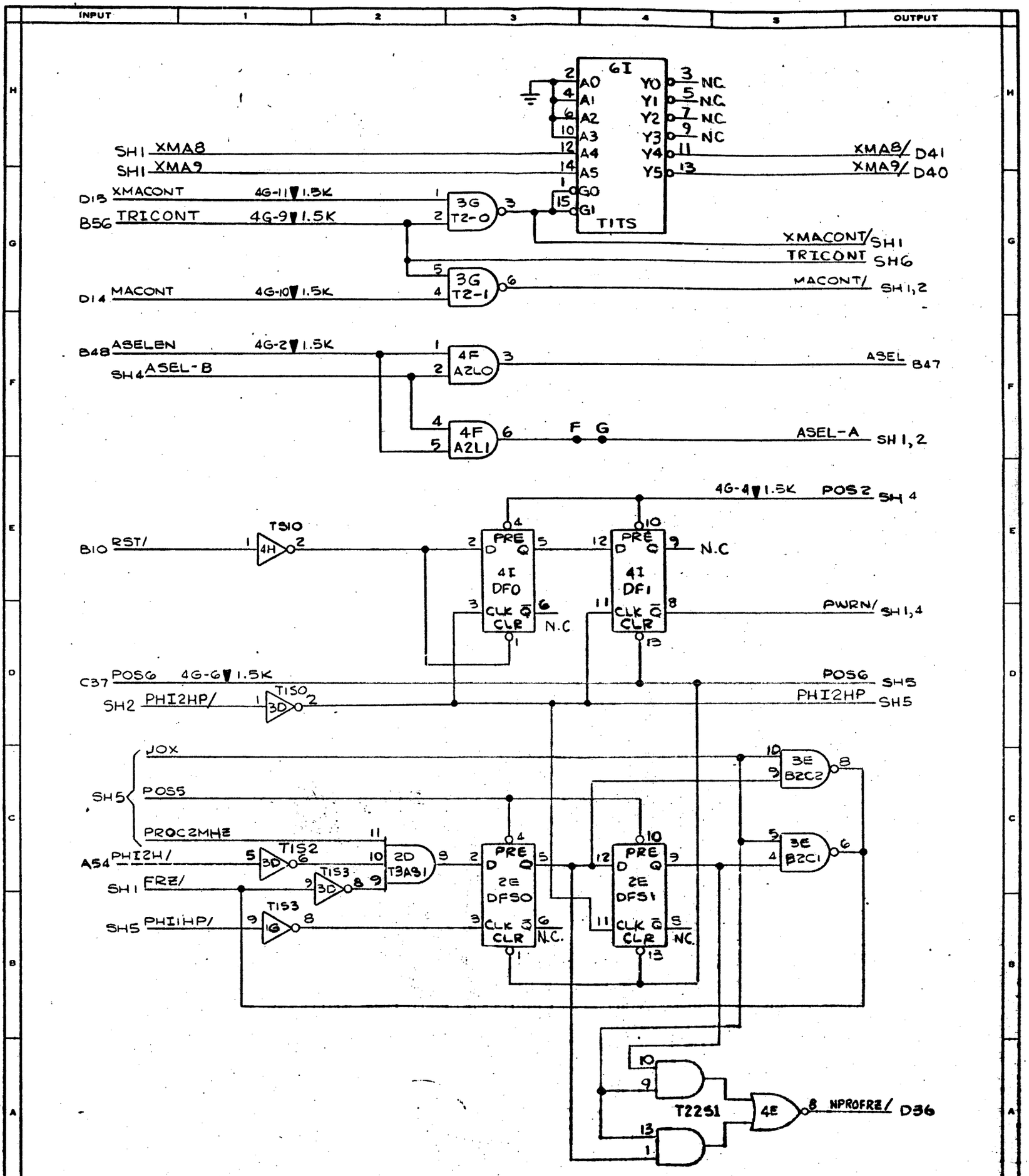
REVISIONS (CONT)

TITLE	CLASS CODE
NPR01A	2-9520

SHEET	DWG NO.	DSGN CONT	REV
6	2854 4716	038	A

ORIGINAL

DTN 169 REV 6-77



REVISIONS (CONT)

ORIGINAL

TITLE	CLASS CODE
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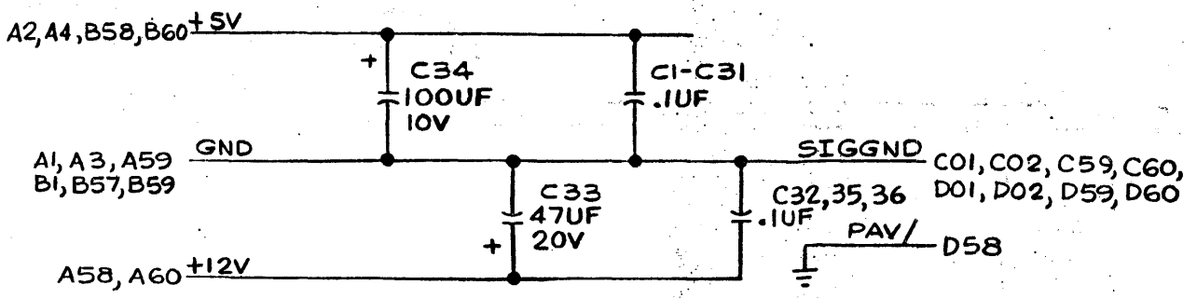
SHEET 7 / DWG NO. 2854 4716	DSGN CONT. 038 / REV B



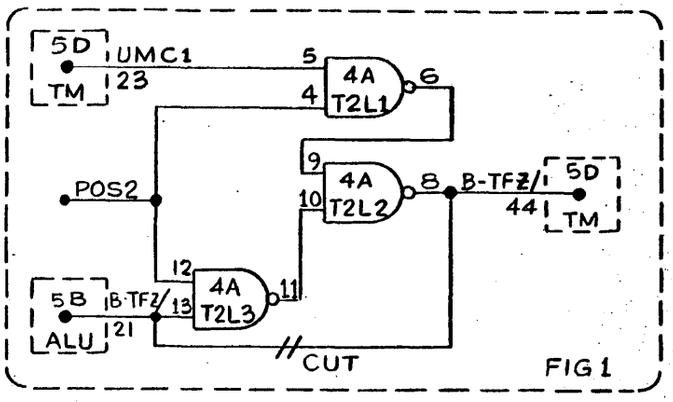


FIG 1

NOTES: (FOR NPRO1A AT IMH2 ONLY)

1. WHEN USING TM LSI (PART NO. 2574 4335) OR WHEN USING ALU LSI (PART NO. 2574 4327) THE CHANGES SHOWN IN FIG. 1 MUST BE EMPLOYED. PACKAGE 4A HAS TO BE INSERTED AND TRACK CUT AS SHOWN IN FIG 1 NEAR PACKAGE 5B PIN 1.

2. LINK LOCATED IN CONNECTION TO CHIP 1F PIN 12 MUST BE CUT. LINK IS PHYSICALLY LOCATED ON THE SOLDER SIDE OF THE CARD BETWEEN POINTS D & E, FROM PAD BELOW PIN 6 OF CHIP 3H TO PIN 9 OF CHIP 3H.

ALL OTHER APPLICATIONS:

3. WHEN NPRO1A IS USED ON B82 OR B80-10 MACHINES, LINK 1 SHOULD BE INSERTED BETWEEN B AND C. WHEN NPRO1A IS USED ON B900 MACHINES, LINK L1 SHOULD BE INSERTED BETWEEN A AND B.
4. ◊ DENOTES BI-DIRECTIONAL BUS.
5. R7 IS NOT USED.
6. FOR ASSY SEE 2854 4708.
7. FOR CARD PIN LIST SEE 2854 5044.

REVISIONS (CONT)

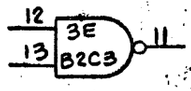
TITLE	CLASS CODE
NPRO1A	2-9520

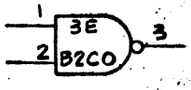
SHEET	DWG NO.	DSGN CONT	REV
8	2854 4716	038	A

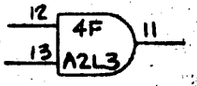
ORIGINAL

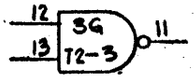
DTN 169 REV 6-77

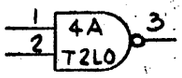
UNUSED LOGIC:

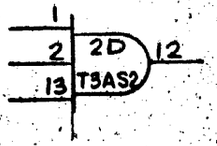


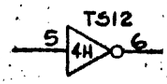


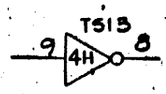


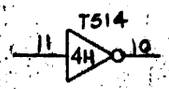


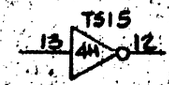


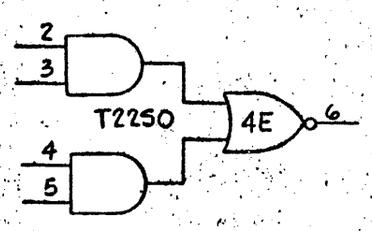


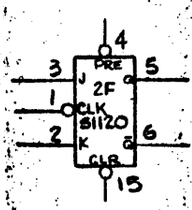


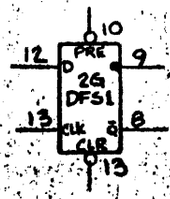












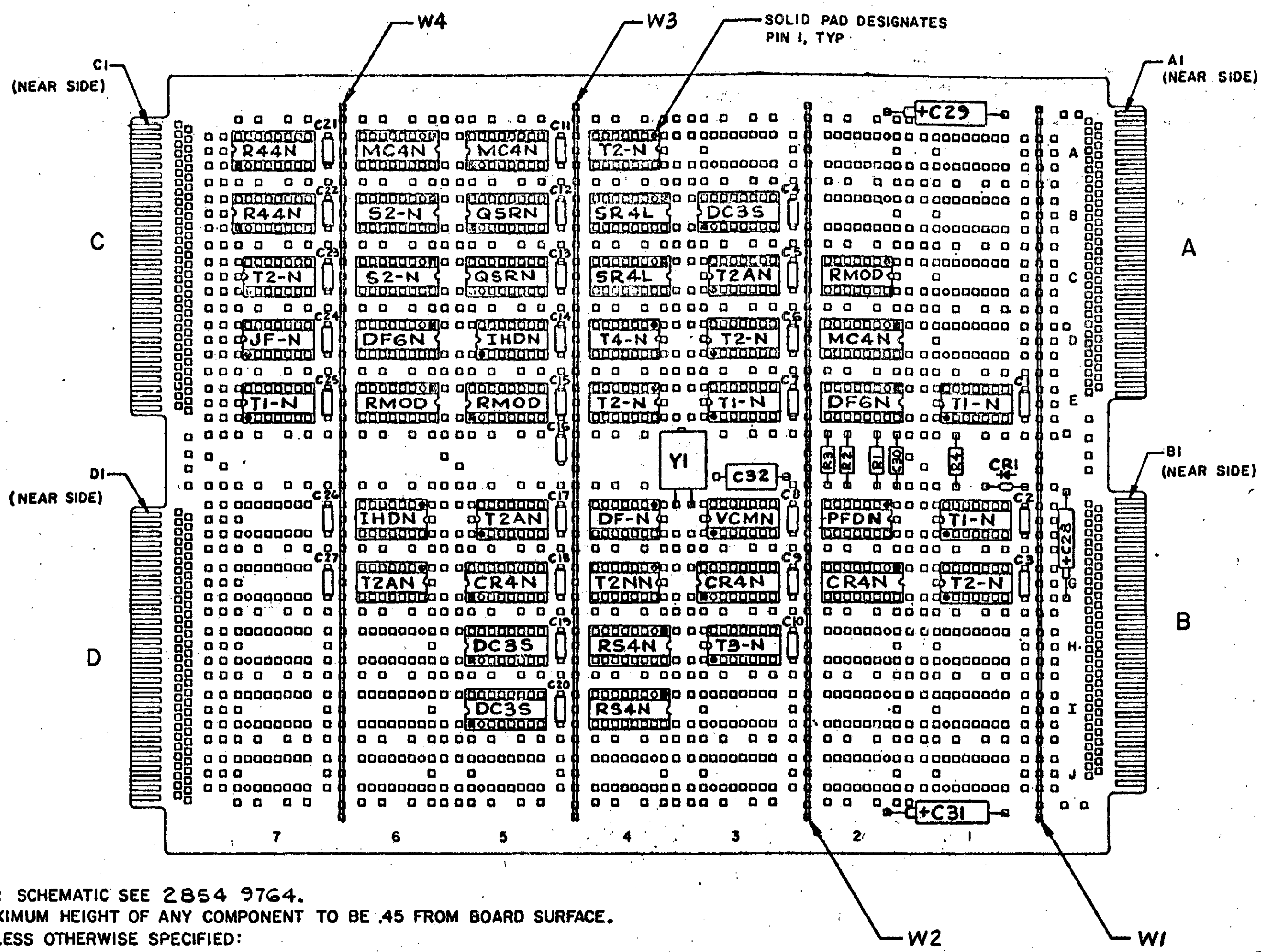
1K	6.2K	750Ω	1.5K
3H-10	3H-6	3C-4	4G-8
		3C-5	4G-12
		3C-6	4G-13
		3C-7	
		3C-8	

REVISIONS (CONT)

TITLE	CLASS CODE
NPR01A	2-9520

SHEET	DWG NO.	DSGN CONT	REV
9	2854 4716	038	D

4 | 3 | 2 | 1



NOTES:
1. FOR SCHEMATIC SEE 2854 9764.
2. MAXIMUM HEIGHT OF ANY COMPONENT TO BE .45 FROM BOARD SURFACE.
3. UNLESS OTHERWISE SPECIFIED:
3.1. SOLDER ALL TERMINATIONS, SEE SPEC. 1446 3244.
3.2. LEAD PROTRUSION TO BE .06 MAXIMUM.
3.3. PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FARTHEST TO THE RIGHT.

LOC DES	PART NO.	SCHEMATIC SHEET NO.	I.C. PINS
1A			
1B			
1C			
1D			
1E	1447 3532	1,7	14
1F	1447 3532	4,5	14
1G	1447 3516	4,7	14
1H			
1I			
1J			
2A			
2B			
2C	1448 2319	3,7	14
2D	1449 2052	1	16
2E	1270 9804	1	16
2F	2574 6926	4	14
2G	1447 3771	4	16
2H			
2I			
2J			
3A			
3B	2600 1545	6	16
3C	1447 3524	5,6	14
3D	1447 3516	1	14
3E	1447 3532	1	14

LOC DES	PART NO.	SCHEMATIC SHEET NO.	I.C. PINS
3F	2574 6918	6	14
3G	1447 3771	4	16
3H	1447 3540	4	14
3I			
3J			
4A	1447 3516	4,5	14
4B	2846 6753	5	16
4C	2846 6753	5	16
4D	1447 3565	1	14
4E	1447 3516	4,5,6	14
4F	1447 3607	4,7	14
4G	2600 4911	4	14
4H	1948 5036	5	16
4I	1948 5036	5	16
4J			
5A	1449 2052	3	16
5B	2574 6934	3	16
5C	2574 6934	3	16
5D	1674 4963	1,4	14
5E	2606 0418	1,4	16
5F	1447 3524	4	14
5G	1447 3771	6	16
5H	2600 1545	6	16
5I	2600 1545	6	16
5J			

LOC DES	PART NO.	SCHEMATIC SHEET NO.	I.C. PINS
6A	1449 2052	3	16
6B	1447 3797	3	16
6C	1447 3797	3	16
6D	1270 9804	4	16
6E	2849 1058	2,4	16
6F	1674 4963	2	14
6G	1447 3524	6	14
6H			
6I			
6J			
7A	2601 2757	2	16
7B	2601 2757	2	16
7C	1447 3516	2,7	14
7D	1447 3516	2	14
7E	1447 3532	1,3,4,7	14
7F			
7G			
7H			
7I			
7J			

QTY	PART NO.	DESCRIPTION
27 EA	2848 3956	C1-C27
1 EA	1267 9205	C28
2 EA	1267 9270	C29, C31
1 EA	1472 7713	C30
1 EA	2476 3450	C32
3 EA	1268 1391	R1, R2, R3
1 EA	1268 1318	R4
1 EA	1471 4703	CR1
1 EA	2574 6942	Y1
1 EA	~~2854 9756~~	PWB
	2851857A	*

REVISIONS: A REL PER ECN 9701A 5/19/80; B ECN...; C ...; D ...

*YCT 10-17-80

Burroughs Corporation

SMALL SYSTEMS GROUP DOWNINGTOWN, PA. 19335 — DOWNINGTOWN PLANT U. S. AMERICA

DOC TYPE: SA | DSGN CONT: 038 | SHEET 1 OF 2

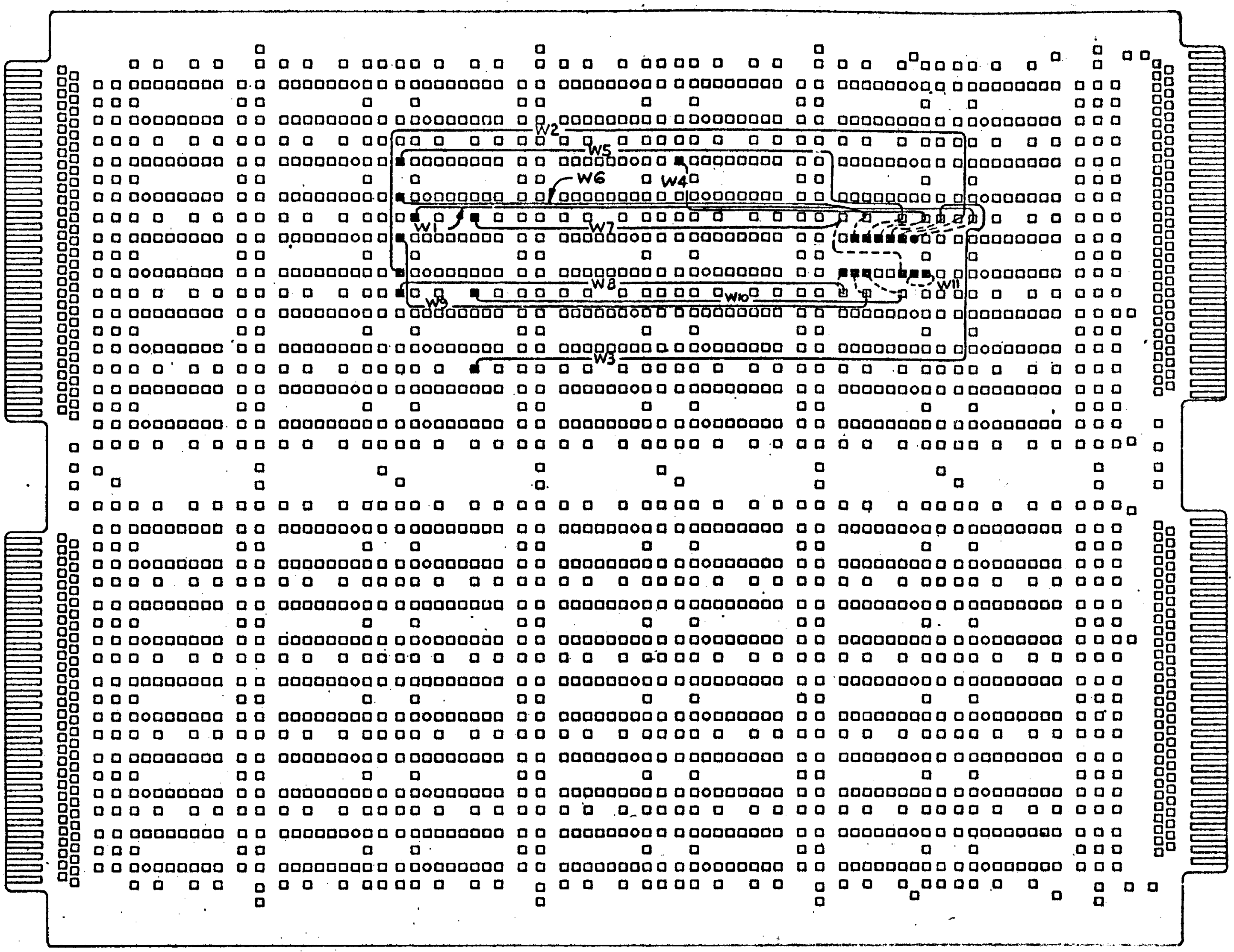
DRAWN: A. TUREK, DATE 4-29-80 | CHECKED: DATE 2 MAY 80 | DSGN OR ENGR: DATE 5-12-80 | APPROVED: DATE 5/14/80

TITLE: PWB ASSEMBLY | CLASS CODE: 2-7045

UNIT: ICD2

DWG SIZE: C | DWG NO. 2854 9749 | REV. DA

PRINTED IN U.S.A. * *4* 3 2 1 DTN 381 1-80



COMPONENT SIDE
SCALE: NONE

CONNECTIONS ACCOMPLISHED BY JUMPER WIRES:

W1 : LOC 2C-1 TO LOC 5B-4
W2 : LOC 2C-2 TO LOC 5C-13
W3 : LOC 2C-3 TO LOC 5C-12
W4 : LOC 2C-4 TO LOC 5B-9
W5 : LOC 2C-5 TO LOC 5B-1
W6 : LOC 2C-6 TO LOC 5B-13
W7 : LOC 2-C-13 TO LOC 5B-10
W8 : LOC 2C-8 TO LOC 5C-4
W9 : LOC 2C-9 TO LOC 5C-1
W10 : LOC 2C-10 TO LOC 5C-10
W11 : LOC 2C-14 TO VCC

TABLE I

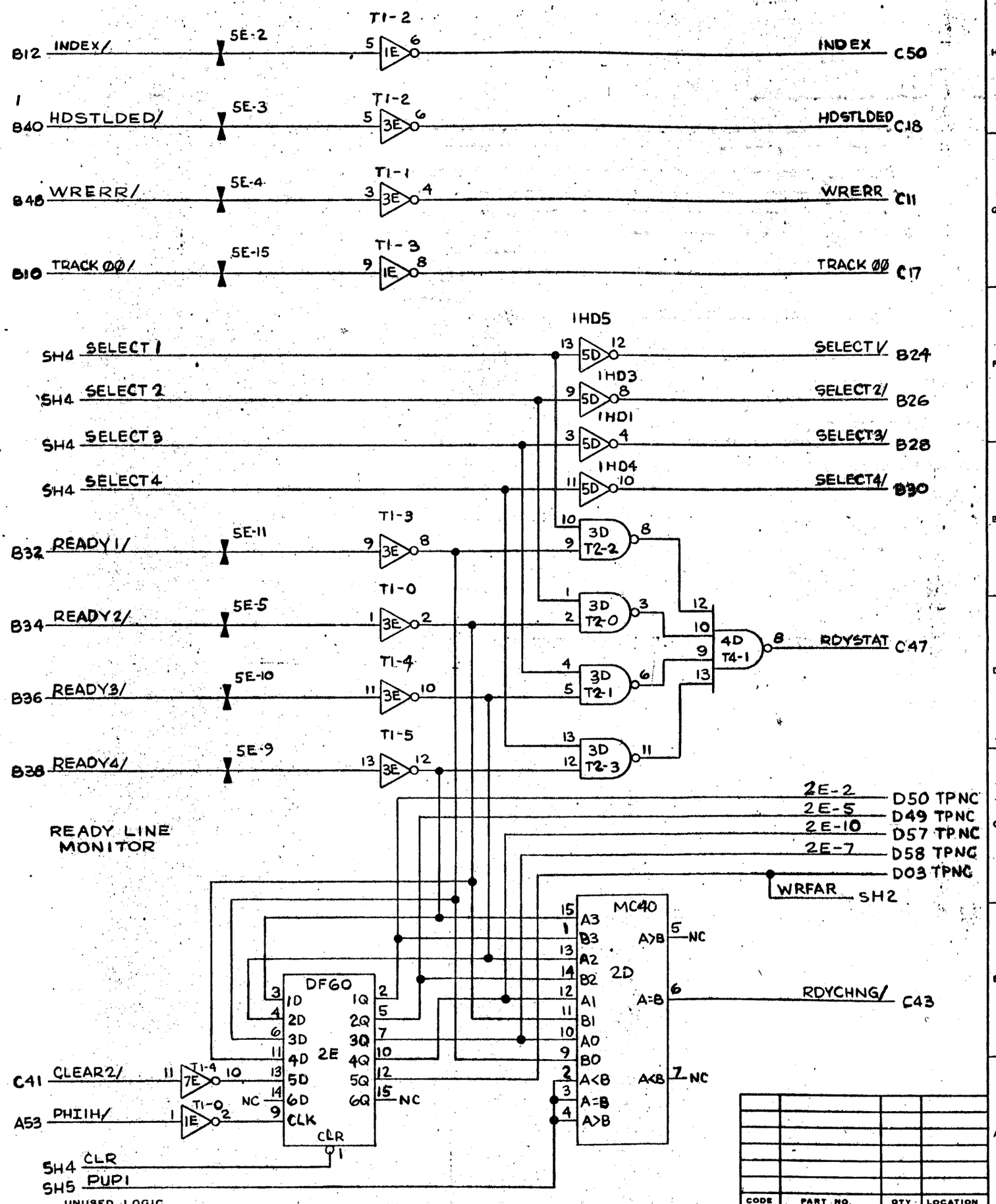
WIRE		WIRE DESIG.	
AWG	COLOR		
26	WHT	W1 - W11	

APPLICABLE TO LATEST REV. OF PWB 28518579 ONLY

REVISIONS

Burroughs Corporation
SMALL SYSTEMS GROUP — DOWNINGTOWN PLANT
DOWNINGTOWN, PA. 19335 — U.S. AMERICA

DOC TYPE: SA	DRAWN: A. TUREK	DATE: 4-28-80	TITLE: PWB ASSEMBLY — CLASS CODE: 2-7045
DSGN CONT: 038	CHECKED: [illegible]	DATE: 2 MAY 80	UNIT: ICD2
SHEET: 2 OF 2	DSGN OR ENGR: J. Schliemann	DATE: 5-12-80	DWG SIZE: C — DWG NO.: 2854 9749 — REV: A
	APPROVED: E. Bozwell	DATE: 5/12/80	



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U.S. AMERICA

REVISIONS

REV	A	A	A	A	A	A	A
SH	1	2	3	4	5	6	7

DRAWN A. TUREK DATE 5-1-80
CHECKED DATE N/A
DESIGN OR ISSUE DATE 7/31/80
APPROVED DATE 5/14/80

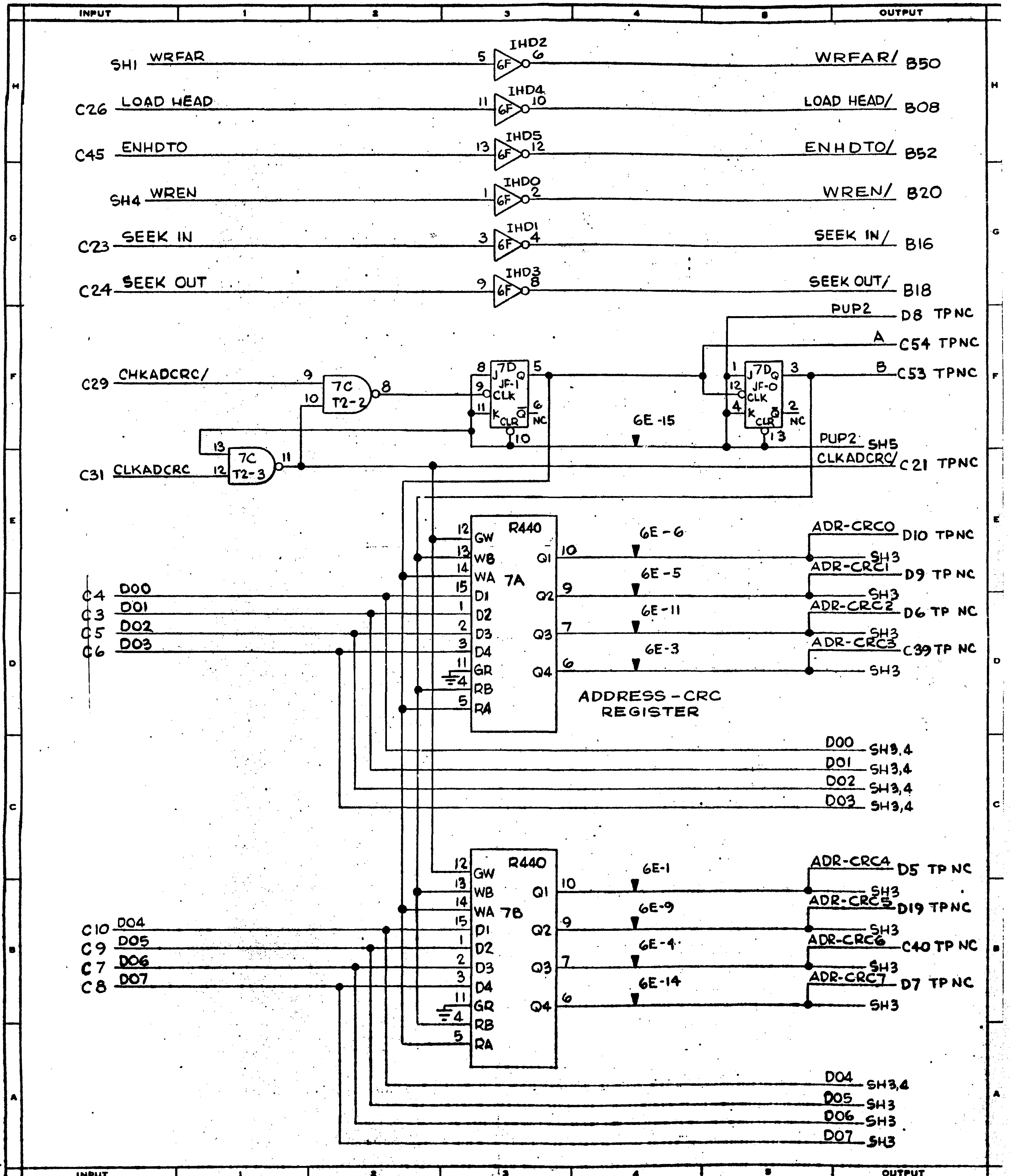
TITLE ICD2

CLASS CODE 2-9520

SHEET 1 OF 7 | DWG NO. 2854 9764 | PLT NO. 038 | REV A

BRUNING 44-131 25507-2

PRINTED IN U.S. AMERICA



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA 19335

DOWNINGTOWN PLANT
U. S. AMERICA

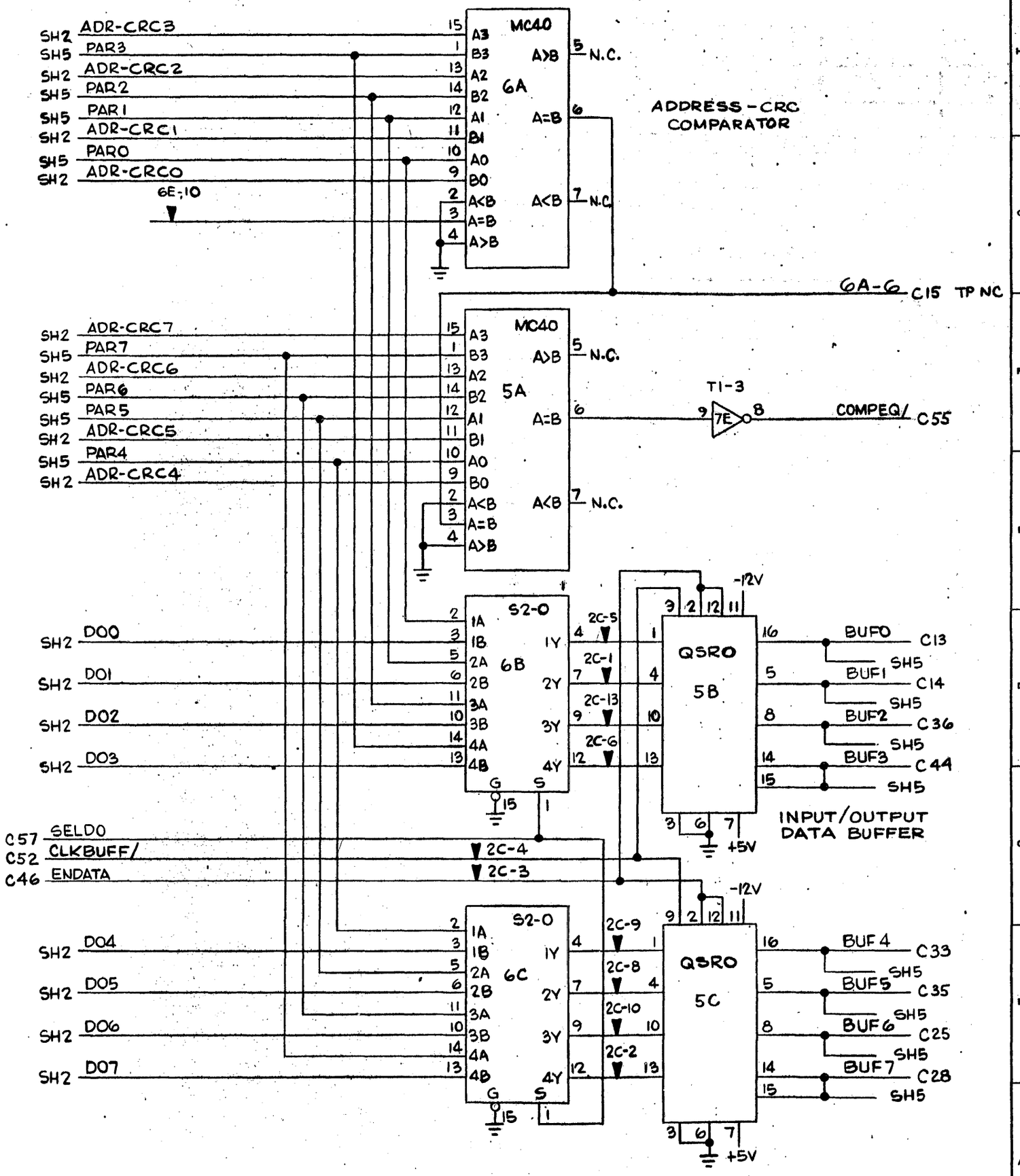
PRINTED IN U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
IC D2	2-9520

SHEET	DWG NO.	DSGN CONT	REV
2	2854 9764	038	A

BTH 189 REV 8-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

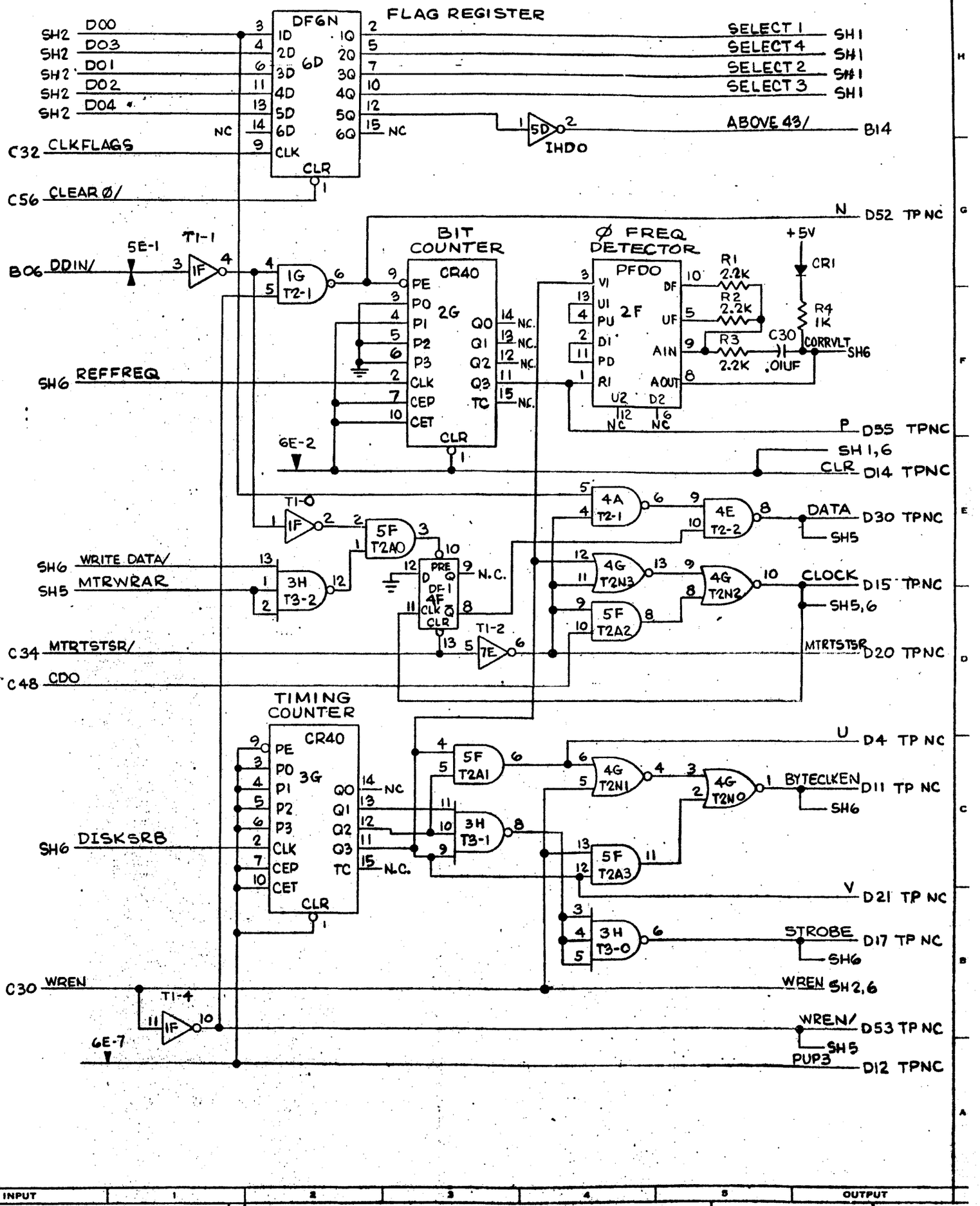
PRINTED IN U. S. AMERICA

REVISIONS (CONT.)

TITLE	CLASS CODE
IC D2	2-9520

SHEET	DWG NO.	DSGN CONT	REV
3	2854 9764	038	A

DTH 169 REV 8-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE: IC D2

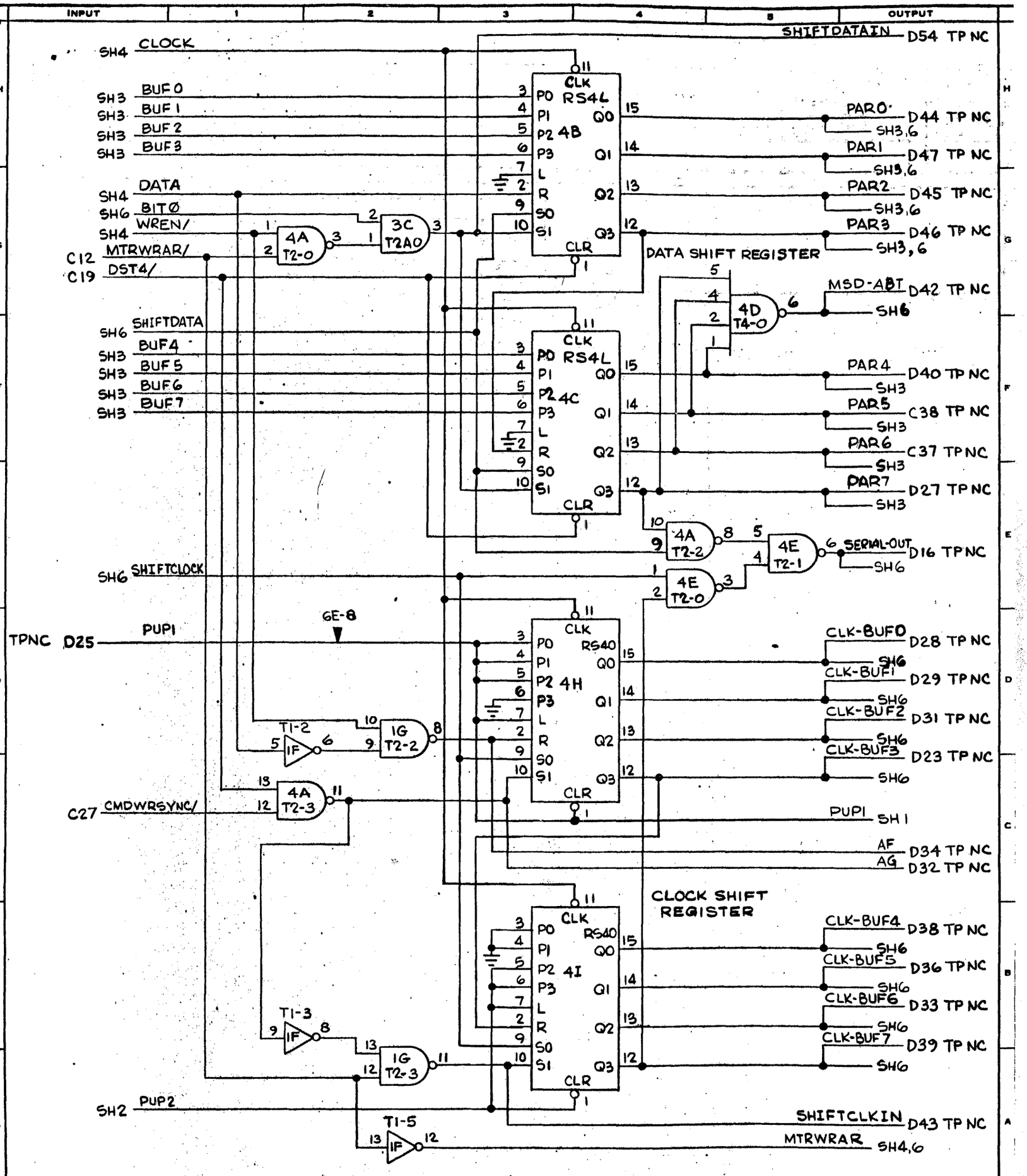
CLASS CODE: 2-9520

SHEET: 4

DWG NO.: 2854 9764

DSGN CONT: 038

REV: A



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

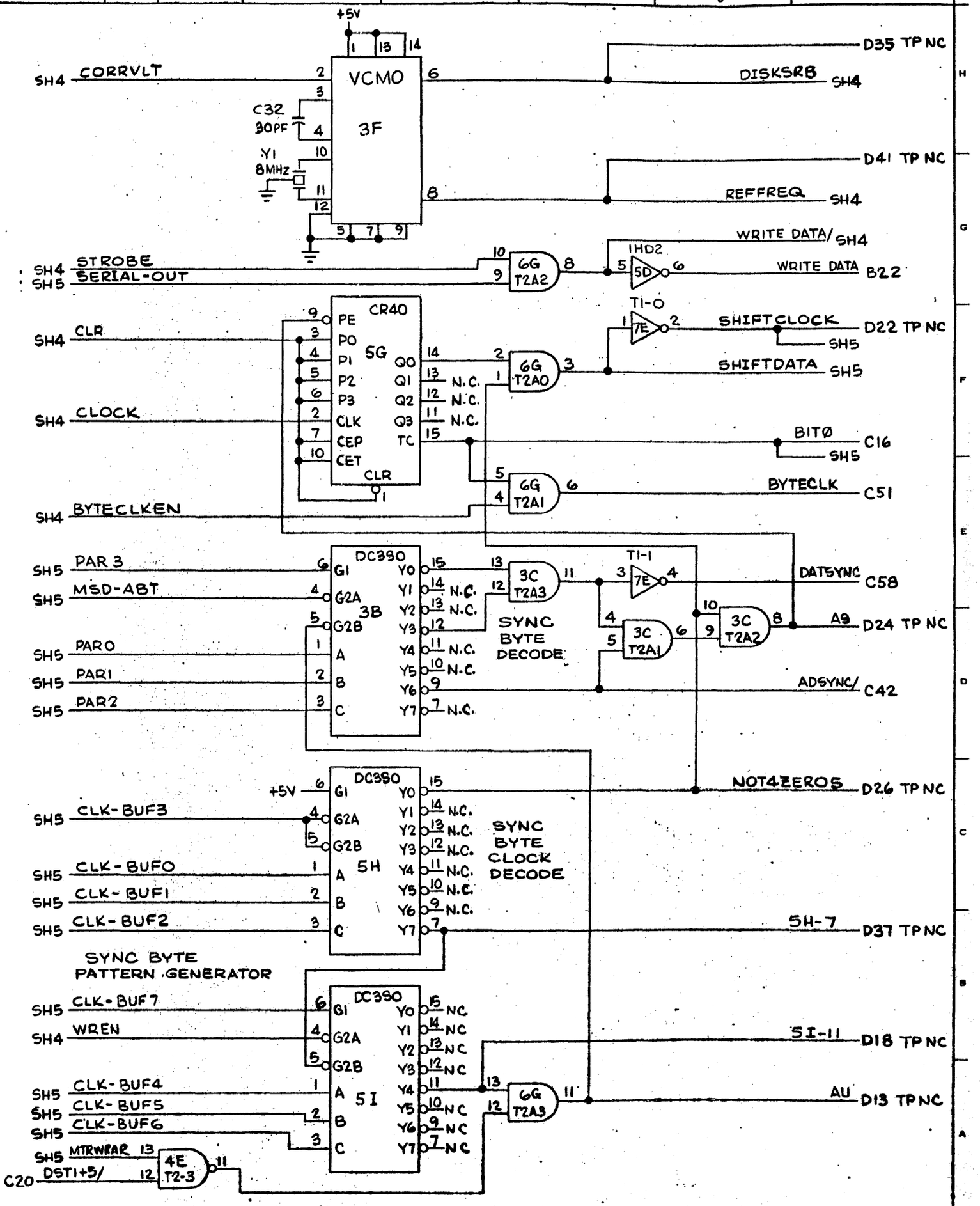
DOWNINGTOWN PLANT
U. S. AMERICA

REVISIONS (CONT)

TITLE	CLASS CODE
IC D2	2-9520

SHEET	DWG NO.	DSGN CONT	REV
5	2854 9764	038	A

DTN 100 REV 8-77



Burroughs Corporation

SMALL SYSTEMS GROUP
DOWNINGTOWN, PA. 19335

DOWNINGTOWN PLANT
U. S. AMERICA

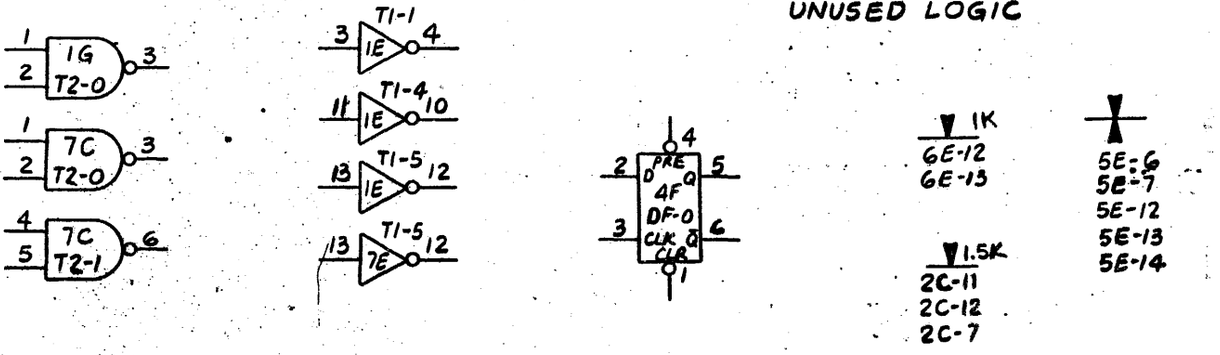
REVISIONS (CONT)

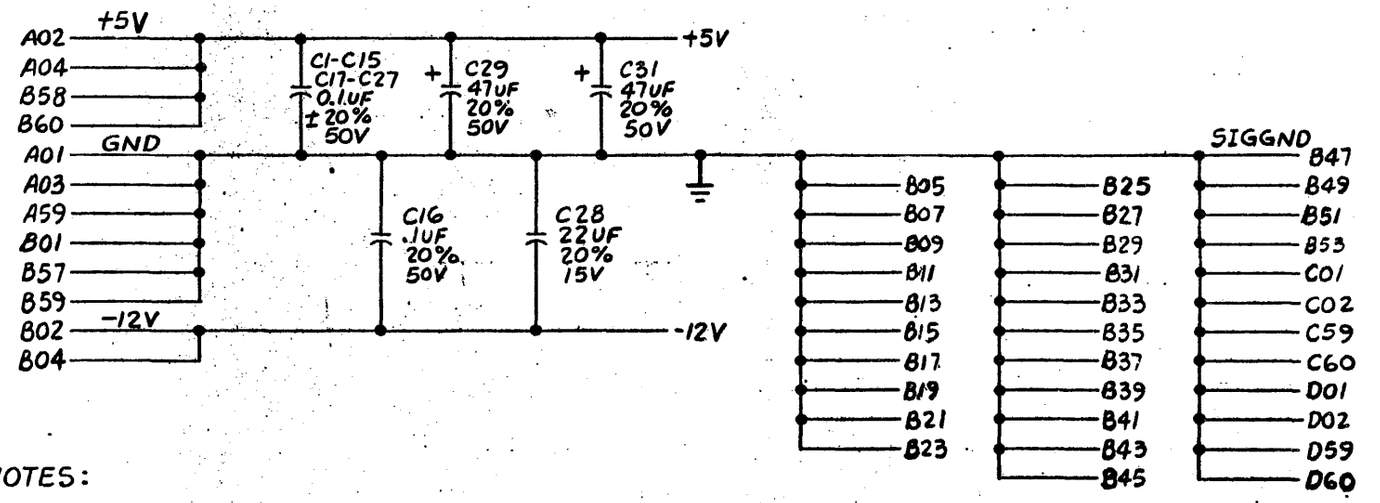
TITLE	CLASS CODE
ICD2	2-9520

SHEET	DWG NO.	DSGN CONT	REV
6	2854 9764	038	A

DWN 169 REV 0-77

UNUSED LOGIC





NOTES:

1. FOR ASSY SEE 2854 9749
2. ▼ DESIGNATES PULL-UP RESISTOR, 1K, & 1.5K.
3. ⧗ DESIGNATES TERM. RESISTOR 220Ω TO GND, 330Ω TO +5V.
4. UNLESS OTHERWISE SPECIFIED:
   ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/4W.
5. FOR PIN LIST SEE 2854 9772.

REVISIONS (CONT)

DOC TYPE	TITLE	CLASS CODE
LD		2-9520
DSGN CONT 038	ICD2	
SHEET 7	DWG SIZE C / DWG. NO. 2854 9764	REV. A

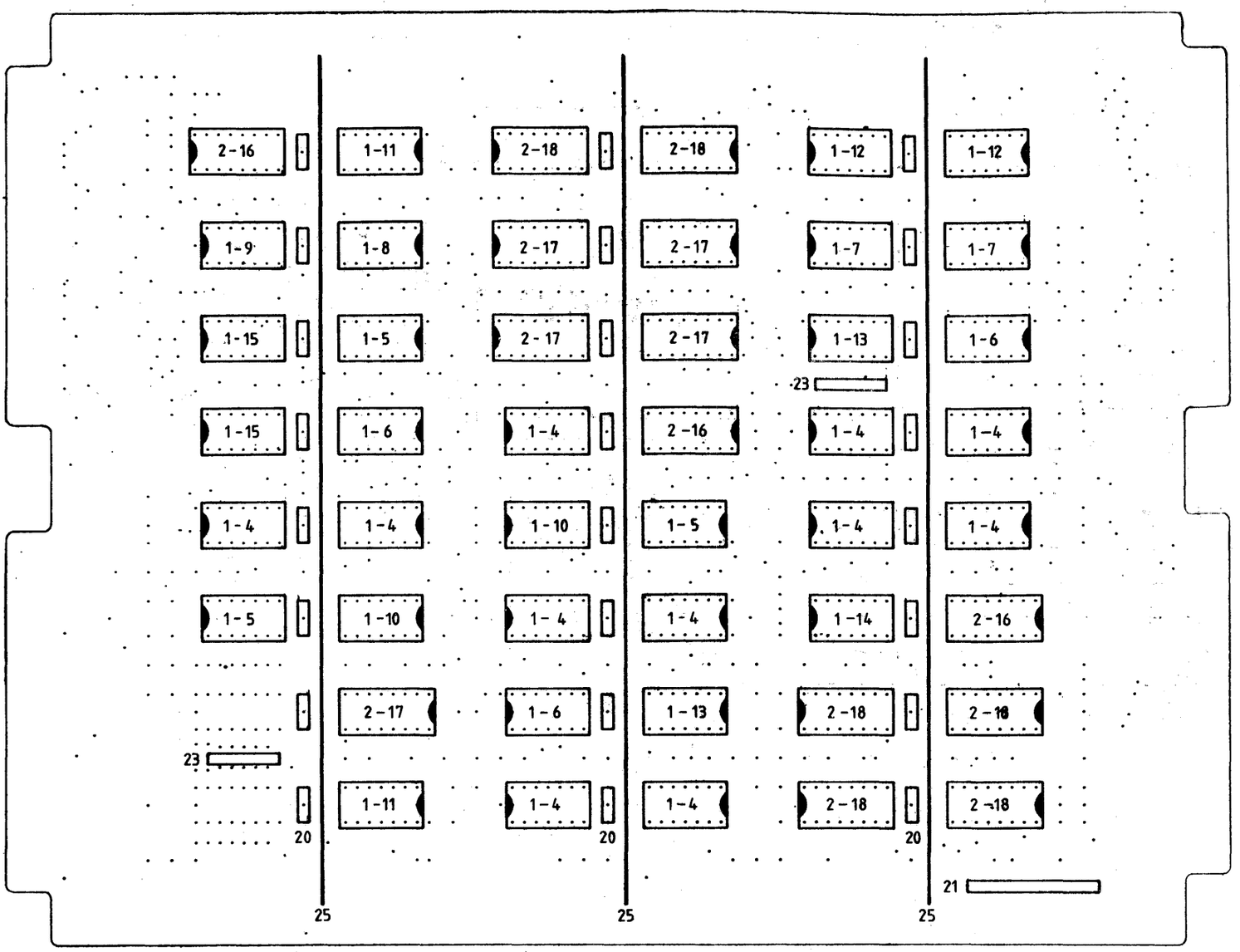
INPUTS A B C OUTPUTS D

ER/ECN NUMBER	ER/ECN DATE	STATUS OF SHEET 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	ARTWORK DATE	CHANGE DESCRIPTION	DRN	ENG
ER02879		A	A	A	A	A	A	A	A	A										MAR31'79			

CONTROL PAGE
SCHEMATICS
BASE BOARD HOLE LOCN'S SOLDERMASK

ORIGINAL

INPUTS A B C OUTPUTS D



NOTES:
1. MAXIMUM HEIGHT OF IC PACKAGES IN SOCKET .450 FROM CARD SURFACE
2. INSERT IC PACKAGES IN SOCKETS AFTER FLOW SOLDER
3. ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

UNLESS OTHERWISE SPECIFIED:
1. MAXIMUM HEIGHT OF COMPONENTS .38 FROM BOARD SURFACE
2. SOLDER ALL TERMINATIONS, SEE SPECIFICATION 81F
3. LEAD PROTRUSION FROM BOARD SURFACE .06 MAX

LIST OF COMPONENTS (REF)

ITEM	DESCRIPTION	PART NO	CODE	REQ
1	SOCKET 14 PIN	2608 9102		32
2	SOCKET 16 PIN	2608 9110		14
3				
4	I.C. SN7400	1447 3516	T2-N	11
5	I.C. SN7402	2600 4911	T2NN	3
6	I.C. SN7404	1447 3532	T1-N	3
7	I.C. SN7408	1447 3524	T2AN	2
8	I.C. SN7410	1447 3540	T3-N	1
9	I.C. SN7420	1447 3565	T4-N	1
10	I.C. SN7427	2600 4929	T3NN	2
11	I.C. SN7430	1447 3573	T8-N	2
12	I.C. SN7438	1447 3581	B2CN	2
13	I.C. SN7474	1447 3607	DF-N	2
14	I.C. SN7486	1447 3698	X4-N	1
15	I.C. SN74107	1447 3615	JF-N	2
16	I.C. SN74155	1447 3722	DC2N	3
17	I.C. SN74161	1447 3771	CR4N	5
18	I.C. SN74175	1449 1278	DR4N	6
19				
20	CAPACITOR 0.1μF 50V	2848 3956		24
21	CAPACITOR 100μF 10V	1267 9353		1
22				
23	RESISTOR 1KΩ ¼W	1268 1318		2
24				
25	BUS BAR	2848 9805		3
26				
27				
28				
29				
30				

ITEM	DESCRIPTION	PART NO	CODE	REQ
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
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55				
56				
57				
58				
59				
60				

FOR SCHEMATIC SEE SHEETS 2 THRU 6
FOR BASE BOARD SEE SHEET 7
FOR HOLE LOCATIONS SEE SHEET 8
FOR SOLDER MASK SEE SHEET 9

FOR PARTS LIST SEE 3180 3778

DO NOT SCALE

3180 3208 A 2 9	Burroughs	PW.B. SPECIFICATION FOR S.D.C.'X'			
		M&R 3 Dec 79	JMS	MAY 21.79	3180 3208
			A1		A 2 9

INPUTS A | B | C | OUTPUTS D

SH5 D8 Φ2H

SH5 D5 POS1

SH5 D4 SINIT/

SH4 D8 DIN0-1

SH4 D8 DIN1-1

SH4 D7 DIN2-1

SH4 D7 DIN3-1

SH4 D7 DIN4-1

SH5 D6 Φ1HG/

A36 ADDR

A39 IOX

A40 CONT/

A38 DIR/

B07 B51 B21 B19 B13 B11 B09 B25 B15 B27 B23 B17 B43 B55 B06 B41

D51 D29 D45 D09 D41

1E T2-0 1E T2-1 1E T2-2 1E T2-3 2D T2-0 2D T2-1 2D T2-3

1D T2-3 1D T2-2 1D T2-1 1D T2-0 2E T2-3 2E T2-2 2E T2-0

1G DR40 1H DR40 2G DR40 2H DR40

4H T2-3 4G T1-1 5H T8-0 4G T1-2

3G DF0 3G DF-1

3F T2-2 3H T2-3 4F T2-0 4H T2-0 4H T2-1 4H T2-2 3H T2-2 3N T2-1 3F T2-0 3F T2-3 5D T1-4

1F 3D 6A DC20

4E T3N1 3E T2N1 4E T3N0 3H T2-0 1C T1-3 3E T2N2 4G T1-0

TMBFG → SH5 A2

TMAFG → SH5 A2

IDFG → C56

STAT2FG → C06

11 FHRL/ → C31

3 FILLD/ → C18

6 DATA → C12

8 WIOX → C40

MHRL/ → C35

ADB/ → C57

TXCONT/ → C38

OSCONT/ → C47

MTRLD/ → C26

RSTA/ → SH5 A5

RSTB/ → SH5 A6

CONCONTA/ → C16

CONCONTB/ → C53

WRITE → SH5 A2

INT/ → C09

SH5 A6

READ → C25

READ/ → SH5 A6

C.T. PROGRAMME

PAGE 3 OF 9 | DRAWING No 3180 3208 | ER 2879 | RELEASED

Burroughs — SMALL SYSTEMS DIVISION, BURROUGHS MACHINES LIMITED, CUMBERNAULD, SCOTLAND, U.K.

DSGN CONTROL 308	TITLE SPECIFICATION S.D.C. X.				
DSGN ENGR	DATE	DRAWN C.B.	DATE MAY 21,79	DRAWING No 3180 3208	
APPROVED	DATE	CHECKED	DATE		
ENG COMP	DATE	DRG SIZE A1	CLASS CODE 2-7045	REV A	PAGE 3 OF 9

INPUTS A B C OUTPUTS D

DIN0-1 → C45 → SH3-A5
DIN1-1 → C51 → SH3-A6
DIN2-1 → C48 → SH3-A7
DIN3-1 → C43 → SH3-A4
DIN4-1 → C54 → SH3-A4
DIN5-1 → C44
DIN6-1 → C50
DIN7-1 → C41

SH5-D2 TMALD/
A05 DIN0 — 1B T2A0
A07 DIN1 — 1B T2A1
A09 DIN2 — 1B T2A3
A11 DIN3 — 1B T2A2
SH5-D5 TMACLR/ — D03
A13 DIN4 — 2B T2A2
A15 DIN5 — 2B T2A3
A17 DIN6 — 2B T2A1
A19 DIN7 — 2B T2A0
SH5-D6 POS2
SH5-D4 1KHZ
SH5-D2 TMBLD/
SH5-D5 TMBCLR/ — D05
SH5-D6 ØIMG/
SH5-D6 ØIH

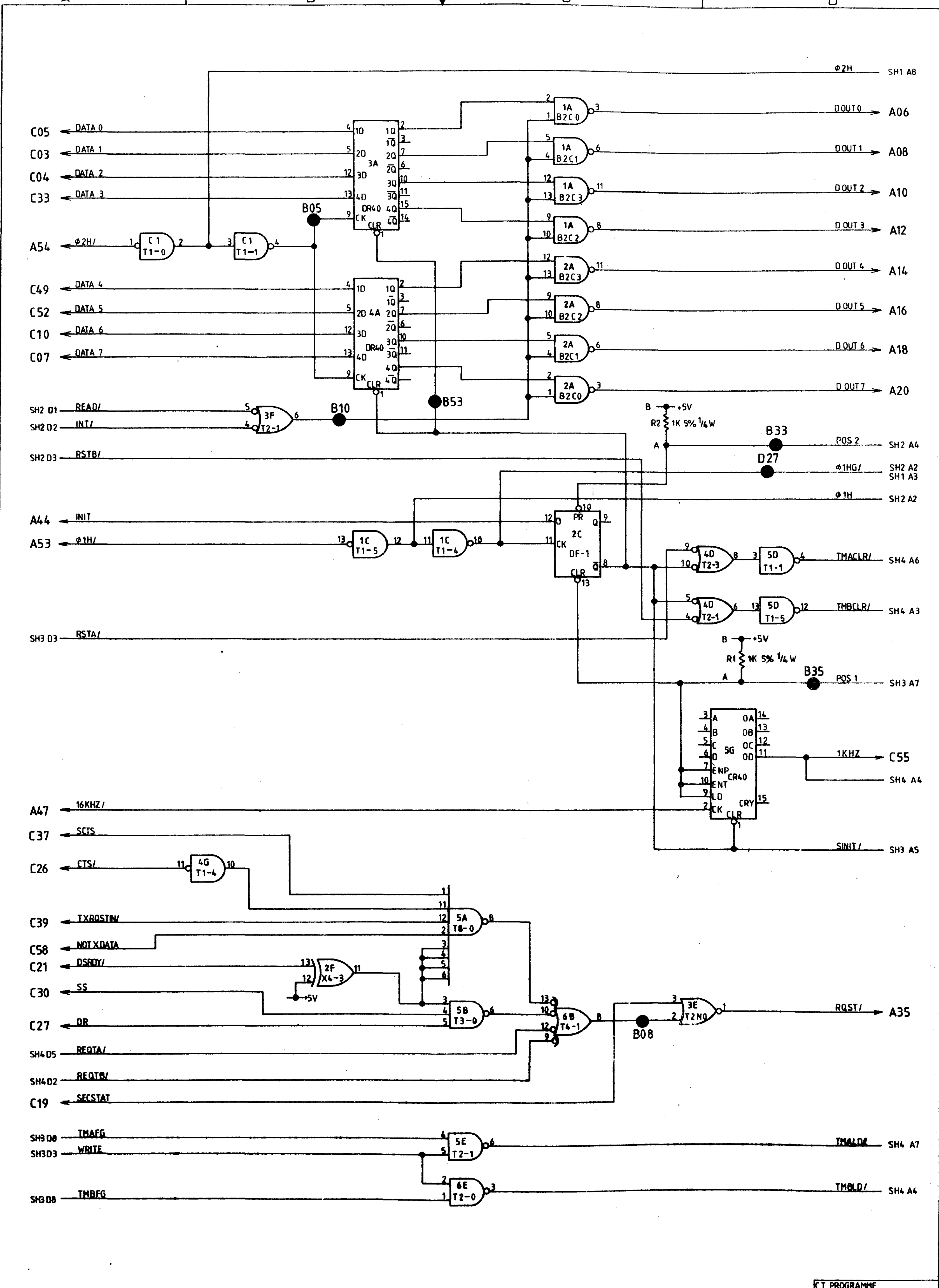
3B CR40 — 5C T2N0 — 6C JF-0 — 5E T2-2 — 5E T2-3 — 5C T2N1 — 5E T2-0 — D13 — D57
4B CR40 — 5D T1-2 — D17 — 5F T3N0 — 5C T2N3 — 5C T2N2 — B31
6C JF-1 — REQTA/ → C14 → SH5-A3

3C CR40 — 6F T2N1 — 6D JF-0 — 6E T2-2 — 6E T2-3 — 6F T2N2 — D21
4C CR40 — 6E T2-1 — D11 — 5D T1-0 — D19 — 5F T3N2 — 6F T2N3 — D18
6D JF-1 — REQTB/ → C46 → SH3-A2

C.T. PROGRAMME

PAGE 4 OF 9	DRAWING No. 3180 3208 A	ER 02879	PAGE E.R. DATE REV.	RELEASED JUNE 29 79	DSGN CONTROL 308	TITLE SPECIFICATION SDC X.	
					DSGN/ENGR M C R	DATE 3 DEC 79	DRAWN C.B. DATE MAY. 21. 79
					APPROVED	DATE 3 Dec 79	CHECKED DATE
					ENG. COMP	DATE	DRG SIZE A1 CLASS CODE 2-7045 REV. A PAGE 4 OF 9

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.



INPUTS
OUTPUTS
DATA 0
DATA 1
DATA 2
DATA 3
DATA 4
DATA 5
DATA 6
DATA 7
C05
C03
C04
C33
A54
C49
C52
C10
C07
3A
DR40
4A
B05
B53
B10
B33
D27
B35
B08
Φ2H
SH1 A8
DOUT 0
DOUT 1
DOUT 2
DOUT 3
DOUT 4
DOUT 5
DOUT 6
DOUT 7
A06
A08
A10
A12
A14
A16
A18
A20
READ/
INT/
RSTB/
RSTA/
INIT
Φ1H/
A44
A53
POS 2
SH2 A4
Φ1HG/
SH2 A2
SH1 A3
Φ1H
2C
DF-1
TMACLR/
SH4 A6
TMBCLR/
SH4 A3
R2 1K 5% 1/4W
R1 1K 5% 1/4W
+5V
POS 1
SH3 A7
5G
CR40
1KHZ
C55
SH4 A4
16KHZ/
A47
SINIT/
SH3 A5
SCTS
CTS/
TXRQSTIN/
NOT XDATA
DSRDY/
SS
DR
REQTA/
REQTB/
SECSTAT
C37
C26
C39
C58
C21
C30
C27
C19
RQST/
A35
TMAFG
WRITE
TMBFG
TMALD/
SH4 A7
TMBLD/

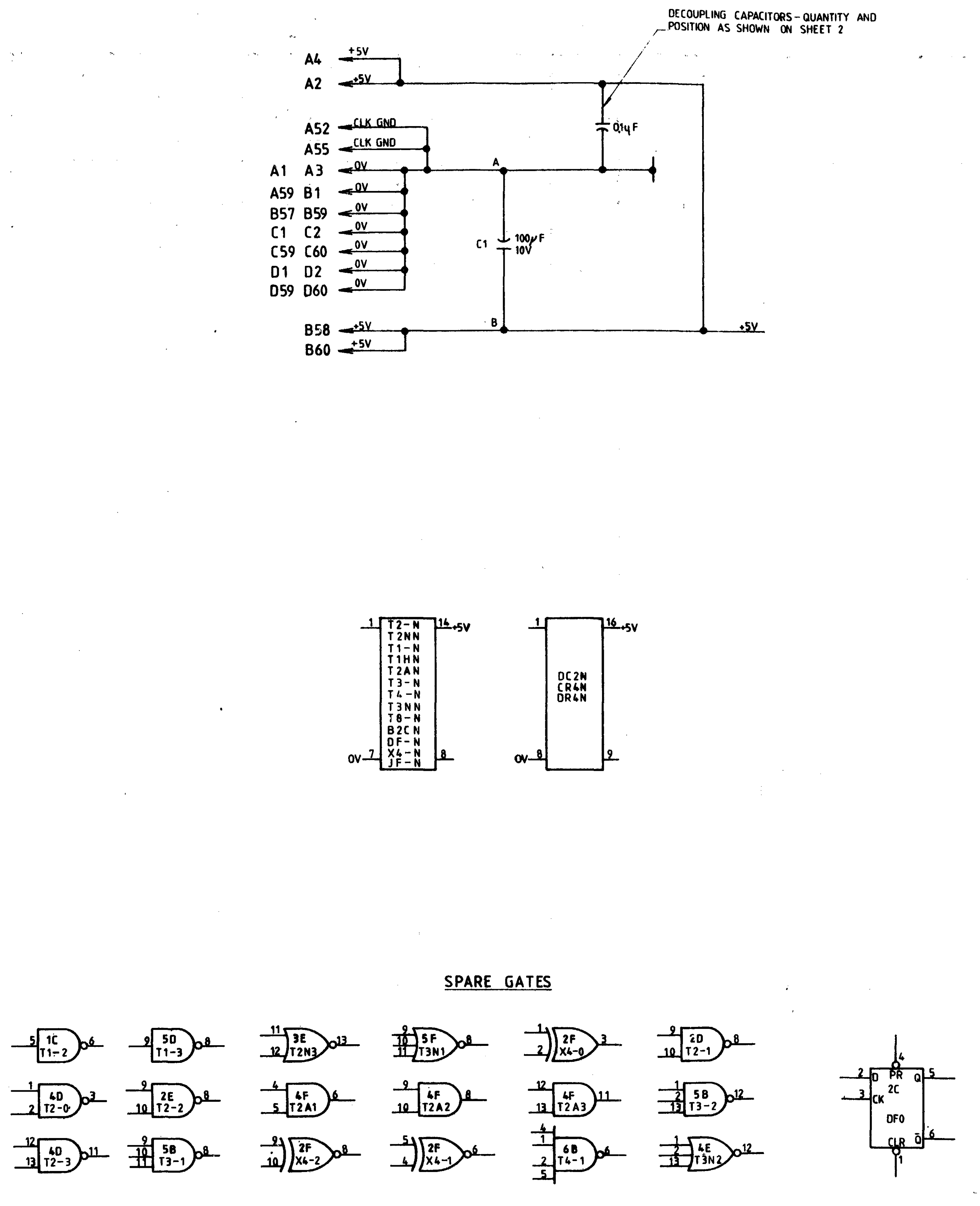
C.T. PROGRAMME

PAGE	5 of 9
DRAWING No	3180 3208
ER	2079
RELEASED	JUNE 29.79

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

TITLE	SPECIFICATION S.D.C. X.
DSGN CONTROL	308
DRAWN	C.B.
DATE	MAY. 21. 79
APPROVED DATE	3 Dec 79
DRG. SIZE	A1
CLASS CODE	2 – 7045
DRAWING No.	3180 3208
REV.	A
PAGE	5 OF 9



C.T. PROGRAMME

PAGE	6 OF 9
DRAWING No.	3180 3208 A
E.R.	ER 02879
RELEASED	JUNE 29 79
DSGN CONTROL	308
TITLE	SPECIFICATION S.D.C. X
DRAWN	C.B.
DATE	MAY 21, 79
DRAWING No.	3180 3208
DRG SIZE	A1
CLASS CODE	2-7045
REV	A
PAGE	6 OF 9

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

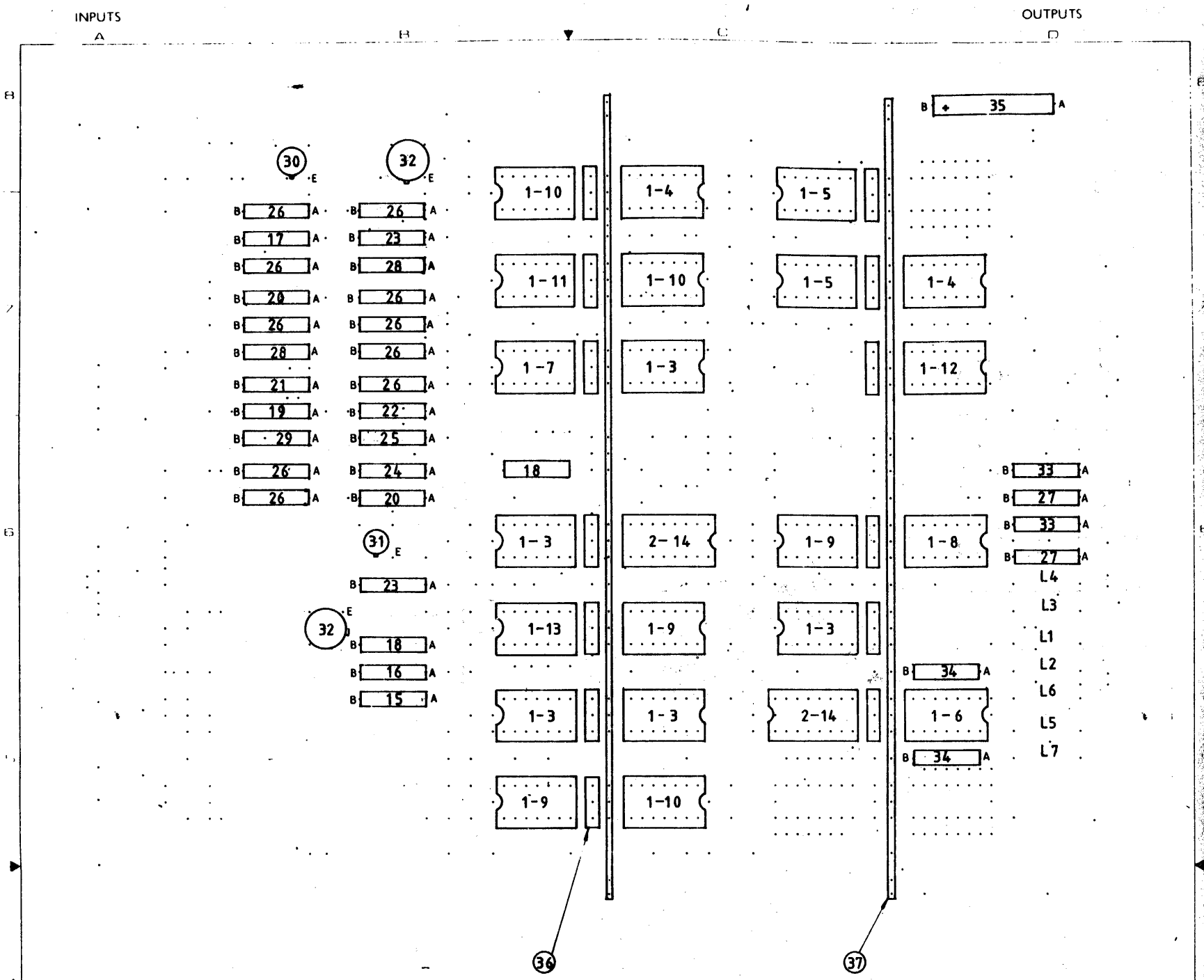
INPUTS A B C OUTPUTS D

E.R./E.C.N. NUMBER	E.R./E.C.N. DATE	STATUS OF SHEET 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	ARTWORK DATE	CHANGE DESCRIPTION	DRN	ENG
02690	MAR.16,79	A	A	A	A	A	A	A	A											FEB.28,79	NEW RELEASE	C.B.	
02884	APR.5,79	B	B	A	B	A	B	A	A												URGENT REWORK INSTRUCTION	A.R	
02885	MAY,25,79	C	C	A	C	B	C	B	B											MAY,25,79	T.P. ADDED-TRACKING, HOLE LOC.,S/MASK & SCHEMATIC ALT'D		
—																					ITEMS 1,13,35 & 36 ALTERED ON SHEET 2	C.B.	
03013	AUG. 17,79	D	C	A	C	B	C	C	B												SHEET 7 ALL .056 DIA HOLES WERE .059 DIA.	A.R	
03195	SEPT 14 79	E	D	A	D	C	D	D	C											SEP.14.79	TRACKING & SCHEMATIC ALTERED, ITEM 29 ALT'D SHT 2	R.M.	

ORIGINAL

CONTROL PAGE | SCHEMATICS | BASEBOARD | DRILL DETAIL | SOLDER MASK

1 of 8	3180 4347	ER 02690	FEB 23'79	Burroughs	R. LAIRD	SPECIFICATION C.T.D.I. MAR. 8 79 / C.Bradley / MAR. 8, 79 / 2-7045	3180 4347 1 of 8



LIST OF COMPONENTS (REF.)

ITEM	DESCRIPTION	PART NO.	CODE	REQ	ITEM	DESCRIPTION	PART NO	CODE	REQ
1	SOCKET 14 PIN	2603 8281	—	21	36	CAPACITOR 0.1μF	2848 3956	—	13
2	SOCKET 16 PIN	2603 8299		2	37	BUSBAR	2848 9805	—	2
3	I.C. SN 7404	1447 3532	T1-N	5	38	SOLDER LINKS	1377 1845	L1-L7	AR
4	I.C. SN 7410	1447 3540	T3-N	2	39				
5	I.C. SN 7474	1447 3607	DF-N	2	40				
6	I.C. MC 1489 AL	2470 7044	LR04	1	41				
7	I.C. SN 7427	2600 4929	T3NN	1	42				
8	I.C. MC 1488 L	1534 9616	LD04	1	43				
9	I.C. SN 7430	1447 3573	T8-N	3	44				
10	I.C. SN 7400	1447 3516	T2-N	3	45				
11	I.C. SN 7402	2600 4911	T2NN	1	46				
12	I.C. SN 74H04	1479 7971	T1HN	1	47				
13	I.C. SN 7420	1447 3565	T4 N	1	48				
14	I.C. SN 74175	1449 1278	DR4N	2	49				
15	RESISTOR 10Ω ½W ±5%	1268 1847	R11	1	50				
16	" 390Ω ½W ±5%	1268 2225	R14	1					
17	" 680Ω ½W ±5%	1268 2282	R 3	1					
18	" 1K ½W ±5%	1268 2324	R10 R12	2					
19	" 1.8K ½W ±5%	1268 2381	R13	1					
20	" 2.7K ½W ±5%	1268 2423	R2 R8	2					
21	" 5.9K ½W ±5%	1127 9544	R6	1					
22	" 6.8K ½W ±5%	1268 2522	R1	1					
23	" 18K ½W ±5%	1268 2621	R4, R9	2					
24	" 15K ½W ±5%	1268 2605	R7	1					
25	" 240K ½W ±5%	1268 2894	R5	1					
26	DIODE 115mA	1471 4703	D2-9 D W3	10					
27	DIODE 300mA	1471 4661	D14 D15	2					
28	DIODE	1471 4737	D1 D10	2					
29	DIODE ZENER	1477 9979	D9	1					
30	TRANSISTOR	1477 3451	T2	1					
31	"	1471 4778	T3	1					
32	"	1471 4828	T1, T4	2					
33	CAPACITOR 0.1μF	2300 5820	C4 C5	2					
34	" 330pf	2300 5515	C1 C2	2					
35	" 47μF	1267 9262	C3	1					

NOTES:-
1. MAXIMUM HEIGHT OF I.C. PACKAGES IN SOCKET .450 FROM CARD SURFACE
2. INSERT I.C. PACKAGES AFTER FLOW SOLDER
3. ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

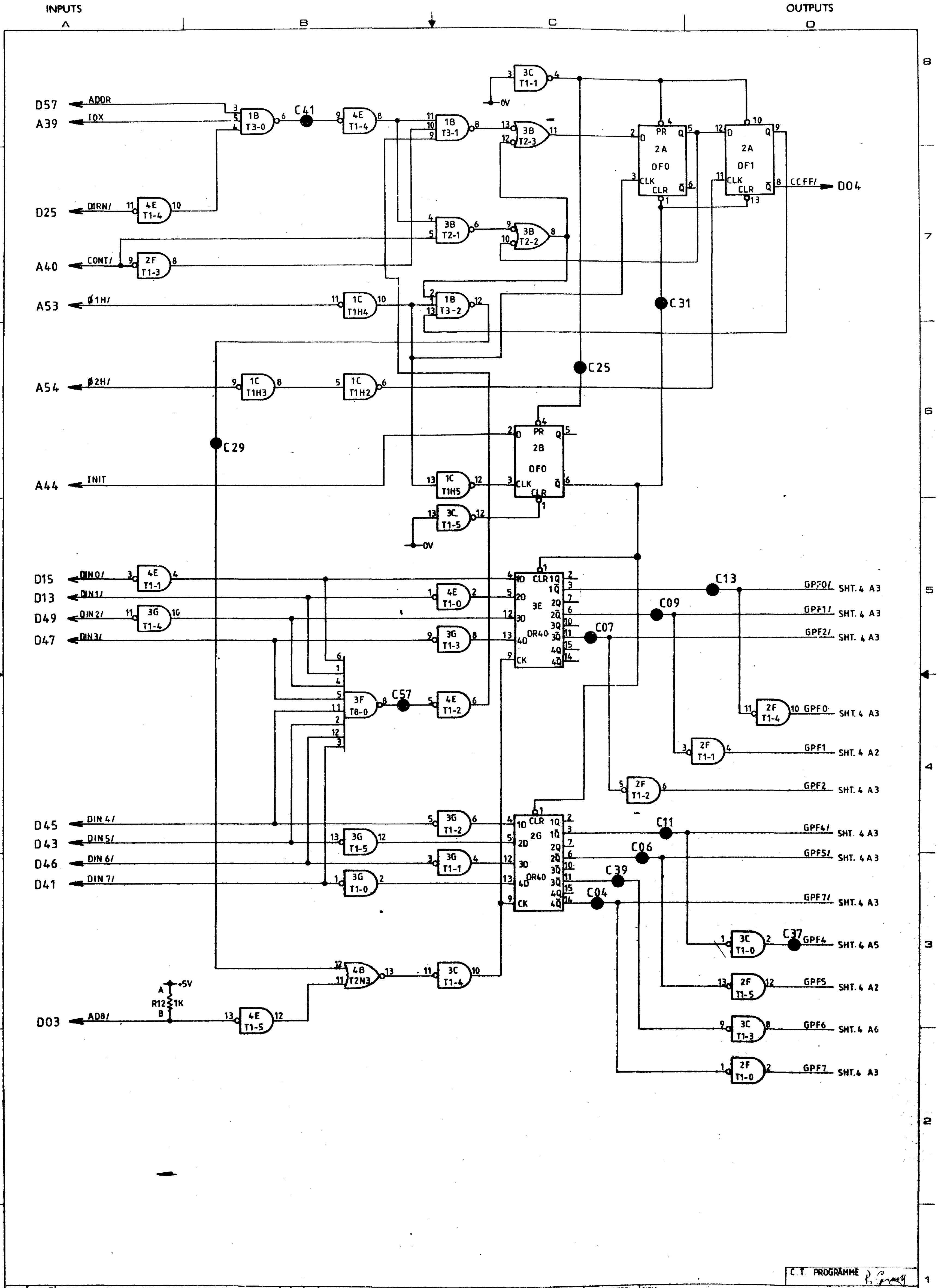
UNLESS OTHERWISE SPECIFIED:
1. MAXIMUM HEIGHT OF COMPONENTS TO BE .450 FROM BOARD SURFACE
2. SOLDER ALL TERMINATIONS -SEE SPECIFICATION 81F
3. LEAD PROTRUSION FROM BOARD -.060 MAX.

SYSTEM \ LINK	L1(RING D)	L2(RING D)	L3(RCARD)	L4(RCARD)	L5(RQSNDD)	L6(STFD+RTD)	L7(TRDATAD)
NON-CONCAT'ED	*	—	*	—	*	*	*
CONCATENATED	—	*	—	*	—	—	—

NOTES:-
4. FOR SCHEMATIC SEE SHEET 2 THRO
5. FOR BASE BOARD SEE SHEET
6. FOR HOLE LOCATION SEE SHEET
7. FOR SOLDER MASK SEE SHEET
8. FOR LEGEND SCREEN PRINT SEE SHEET

ORIGINAL

2 8	DRAWING NO 3180 4347 E	ER 02690	PAGE ER DATE REV.	RELEASE DATE FEB. 23 79	Burroughs	TITLE SPECIFICATION C.T.D.I.	
					DESIGN ENGR R. LAIRD	DATE MAR 8 79	DRAWN C.Bradley
					APPROVED	DATE	CHECKED
							A1
						DATE MAR 8 79	DRAWING NO 3180 4347
						DATE	2 7045
						REV D	PAGE 2 of 8



INPUTS
OUTPUTS
A
B
C
D
D57 ADDR
A39 IOX
D25 DIRN/
A40 CONT/
A53 Ø1H/
A54 Ø2H/
A44 INIT
D15 DIN0/
D13 DIN1/
D49 DIN2/
D47 DIN3/
D45 DIN4/
D43 DIN5/
D46 DIN6/
D41 DIN7/
D03 AD8/
R12 1K
+5V
0V
C41
C31
C25
C29
C57
C13
C09
C07
C11
C06
C39
C04
C37
CCFF/ D04
2A DF0
2A DF1
2B DF0
3E DR40
2G DR40
GPF0/ SHT. 4 A3
GPF1/ SHT. 4 A3
GPF2/ SHT. 4 A3
GPF0 SHT. 4 A3
GPF1 SHT. 4 A2
GPF2 SHT. 4 A3
GPF4/ SHT. 4 A3
GPF5/ SHT. 4 A3
GPF7/ SHT. 4 A3
GPF4 SHT. 4 A5
GPF5 SHT. 4 A2
GPF6 SHT. 4 A6
GPF7 SHT. 4 A3

C.T. PROGRAMME

PAGE 3 of 8	DRAWING No 3180 4347	ER 02690 A	RELEASED FEB 23 79

Burroughs

SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN CONTROL 308	TITLE SPECIFICATION- CTDI		
DSGN ENGR R LAIRD	DATE MARCH 8, 79	DRAWN C. Bradley	DATE MARCH 8, 79
APPROVED	DATE	CHECKED	DATE
ENG COMP	DATE	DRG SIZE A1	CLASS CODE 2-7045

DRAWING No 3180 4347 — REV. A — PAGE 3 of 8

INPUTS A B C OUTPUTS D

B14 TRDATAD 1G LR04 C21 3B T2-0 C23 D1 C27 D2 C33 D3 C35 D4 C47 D5 D6 0V
TRDATAD L7 -12V
R1 6.8K +12V
D10 TXDATA/
C17
C05 D7 C19
T1 R2 2.7K -12V R3 680 0V
R4 18K -12V
T2 D13 TRDATAU B23
B15 RCDATAU
+12V R5 240K R7 15K +5V R9 18K
RCDATA D06
D8 C49 D9 C55 D11 C53 D12 C51 T3
D10 C15 R13 1.8K R6 5.9K -12V R8 2.7K 0V
1E LD04 RCDATAD B26
C1 330pF 0V

SHT.3 D3 GPF6.
SHT.3 D3 GPF4
A36 MTR
A35
4C T3N0 4C T3N1 4G T1-3 4F T4-1 4A T2-0 3A T3-2 4A T21 1C T1H-0 RCAR/ D08
-12V L1 +12V L2 L3 L4 RING D B36 RCARD B11

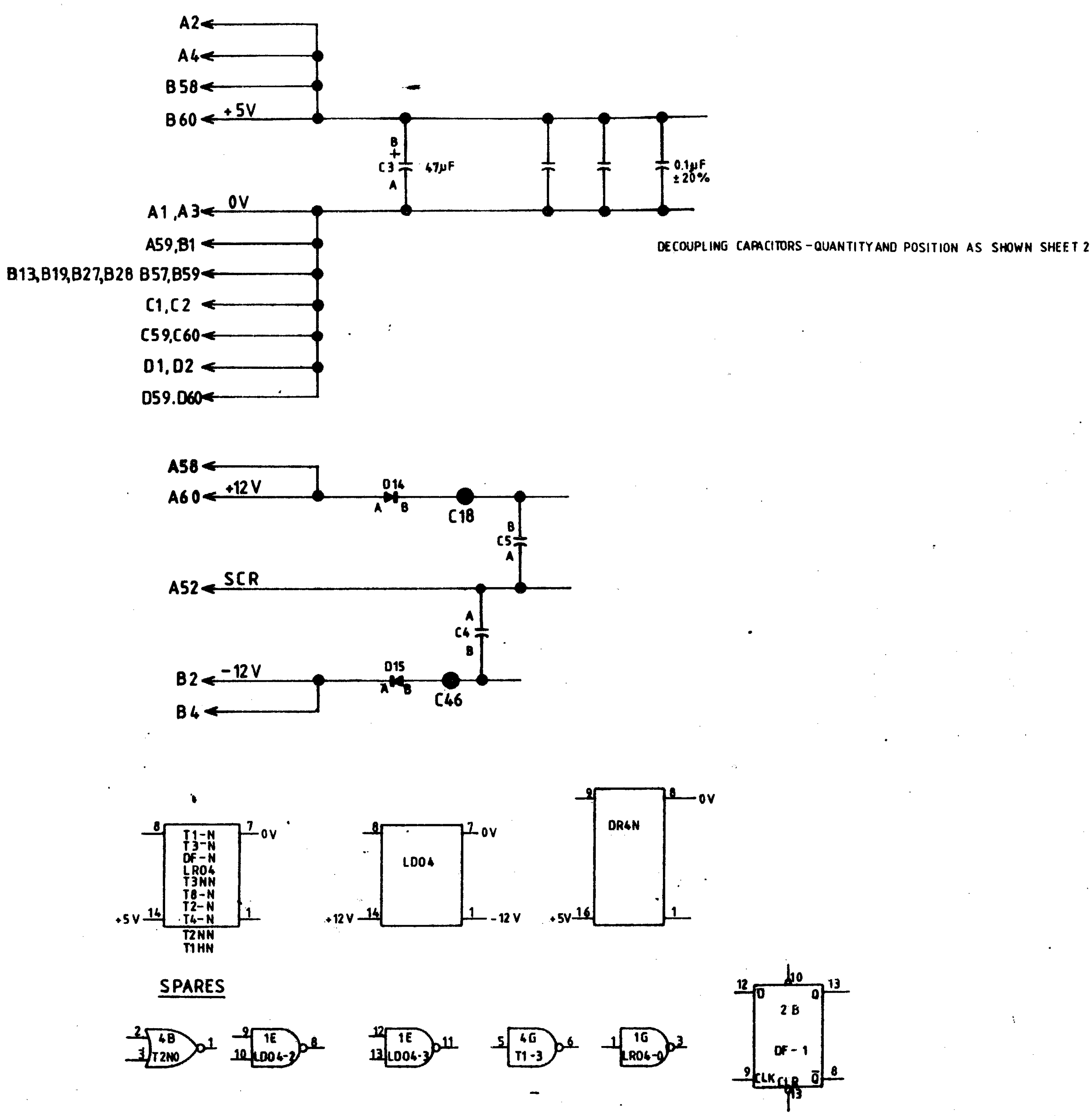
D55 SSB 4G T1-0
D35 DM/
D37 ORIG/ 4H T8-0 C50 3H T2-3
D21 STF/
D40 DSRATE/ 4G T1-5
-12V REQSNDD L5 B33 REQSNDD 1G LD04 C03 1C TH1-1 3H T2-2 C54 1E LD04 CLRSNDD B10
C2 330pF 0V
3A T3-1
-12V STFD+RATED L6 B31 STFD+RATED 1G LD04 C58 3C T1-2 3A T3-0 4F T4-0 4G T1-1 RING/ D29
SHT.3 D2 GPF7
SHT.3 D4 GPF2
SHT.3 D4 GPF0
SHT.3 D3 GPF7/
SHT.3 D4 GPF5/
SHT.3 D4 GPF4/
SHT.3 D5 GPF2/
SHT.3 D5 GPF0/
SHT.3 D5 GPF1/ 2E T8-0 C56 3H T2-1 3H T2-0 4G T1-4 R14 390Ω C43 +5V R10 1K T4 C45 R11 10Ω RCARI B25
SHT.3 D4 GPF1 4C T3N2 4B T2N1
D12 RTS-1/
SHT.3 D3 GPF5 4A T2-3 4A T2-2 4B T2NO CLRSND/ D33

B32 DTRD DSRD B09
D27 DTRDY/ DSR/ D07

C.T PROGRAMME

PAGE 4 of 8	DRAWING No 3180 4347	ER 02690	PAGE I.E.R DATE REV	RELEASED FEB 23 79	Burroughs SMALL SYSTEMS DIVISION BURROUGHS MACHINES LIMITED CUMBERNAULD, SCOTLAND, U.K.	DSGN. CONTROL 308	TITLE SPECIFICATION- CTDI
						DSGN/ENGR. R. LAIRD	DATE MARCH 8 79
						APPROVED	DATE
						ENG. COMP	DATE
						DRAWN C.Bradley	DATE MARCH 8 79
						CHECKED	DATE
						DRG. SIZE A1	CLASS CODE 2-7045
						DRAWING No. 3180 4347	
						REV. D	PAGE 4 of 8

INPUTS A B C OUTPUTS D

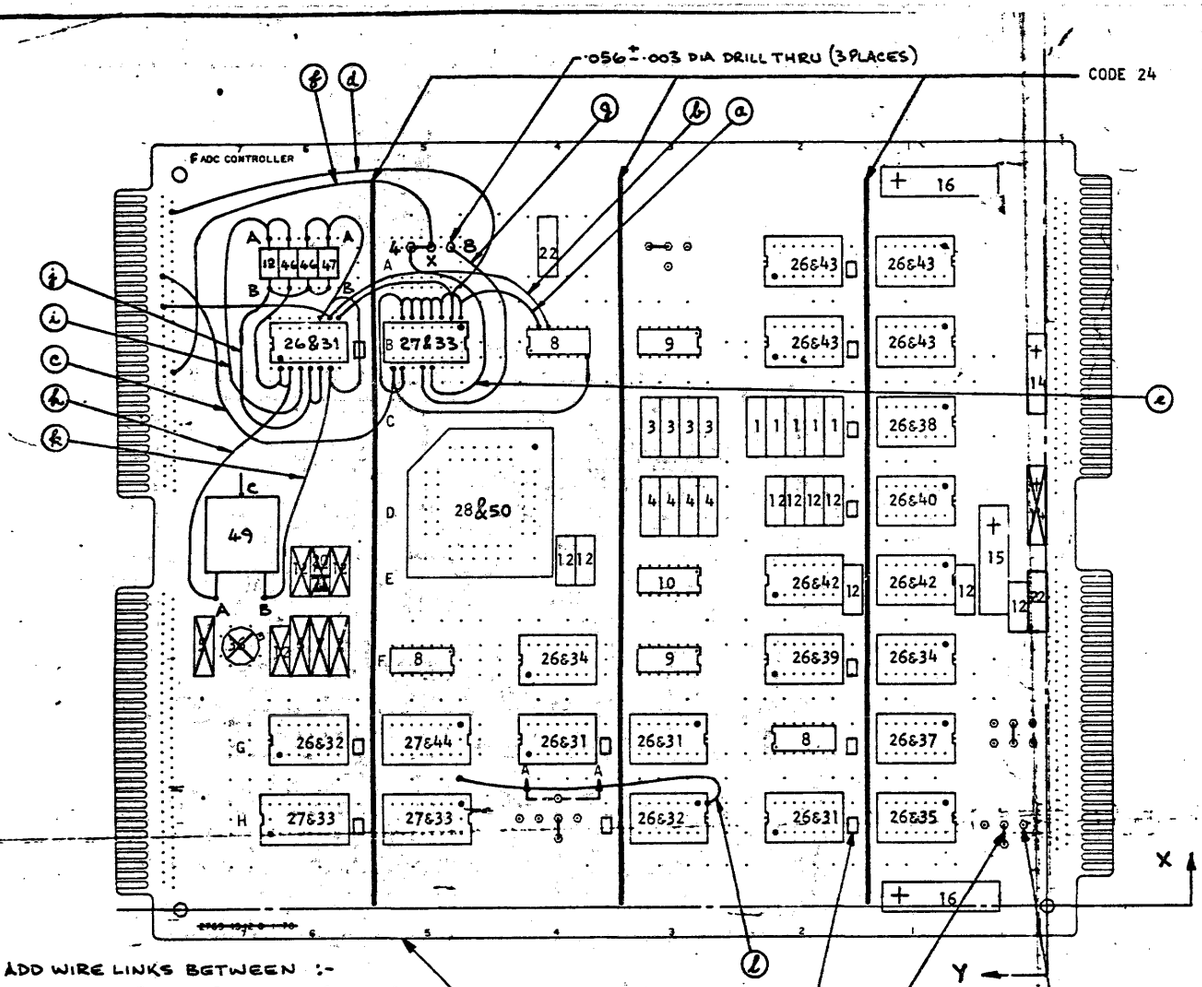


C.T. PROGRAMME

PAGE	5 of 8
DRAWING No.	3180 4347
ER	02690
RELEASED	FEB.23.79

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL	TITLE: SPECIFICATION - C.T.D.I.		
DSGN/ENGR. R.LAIRD	DATE MARCH,8.79	DRAWN C.Bradley	DATE MARCH 8.79
APPROVED	DATE	CHECKED	DATE MARCH
ENG. CORP	DATE	DRG. SIZE A1	CLASS CODE 2-7045
DRAWING No. 3180 4347	REV. C	PAGE 5 of 8	



CODE	VALUE	PART NO.	REQD
1	270 RESISTOR	1268 2183	5
2	390	1268 2225	1
3	680 RESISTOR	1268 2282	4
4	1600 RESISTOR	1268 2373	4
5	19.6K ±1%	1114 9135	1
6	24.3K	1634 8828	1
7	105K	1634 8906	1
8	RES PKG 1k	1846 4610	3
9	RES PKG 6400	1846 5203	2
10	RES PKG 12k	2472 7992	1
11			
12	.1uF ±20% 50V	2300 5820	## 10
13	.12uF ±20% 50V	2848 3956	## 12
14	6.8uF ±20% 35V	1267 9155	#1
15	15uF ±20% 35V	1267 9197	1
16	15uF ±20% 20V	1267 9159	2
17			
18			
19			
20	DIODE, ZENER	1471 4687	1
21			
22	JUMPER	1377 1845	2
23	JUMPER, SPRING	1536 3674	#5
24	BUS BAR	2848 9805	3
25			
26	SOCKET 14 PIN	2608 9102	## 19
27	SOCKET 16 PIN	2608 9110	#4
28	SOCKET 51 PIN	1532 8123	1
29			
30	MINI SOCKETS	1239 1306	## 23

CODE	VALUE	PART NO.	REQD
31	I.C. PACKAGE	1447 3516	#4
32	I.C. PACKAGE	1447 3532	2
33	I.C. PACKAGE	1447 3771	#3
34	I.C. PACKAGE	1471 4356	2
35	I.C. PACKAGE	1471 4364	1
36	I.C. PACKAGE	1471 4406	1
37	I.C. PACKAGE	2600 1487	1
38	I.C. PACKAGE	2600 1495	1
39	I.C. PACKAGE	1674 4963	1
40	I.C. PACKAGE	1848 4576	1
41			
42	I.C. PACKAGE	1846 5229	2
43	I.C. PACKAGE	2472 2548	4
44	I.C. PACKAGE	2472 5566	1
45			
46	1K ¼W RESISTOR	1268 1318	2
47	120pF 50V CAP.	1269 5359	1
48			
49	1.2288 MHz XTAL	1537 2683	1
50	ADC LSIC	1845 9875	1
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

NOTES: 3180 6888

1. OR SCHEMATIC SEE ~~2769 4959 REV B~~
2. MAX HEIGHT OF I.C. PACKAGES IN SOCKETS .450 FROM BOARD SURFACE.
3. I.C. PACKAGES SHALL BE INSERTED IN SOCKETS AFTER FLOW SOLDER.
4. LATEST ASSEMBLY REV LEVEL MUST APPEAR ON THE BOARD SURFACE.

UNLESS OTHERWISE SPECIFIED:

MAX HEIGHT OF COMPONENTS .38 FROM BOARD SURFACE.
SOLDER ALL TERMINATIONS, SEE SPEC DWG 81F.
LEAD PROTRUSION FROM BOARD SURFACE .06 MAX
ALL RESISTOR VALUES ARE IN OHMS, ±5%, 1/2W.
ALL RESISTOR PACKAGE RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W.

ADD WIRE LINKS BETWEEN :-

(a) 48 PIN 13 & PAD X 5.95 Y 6.05 (5B PIN 1)
5B PIN 1 & PAD X 5.95 Y 6.25 (5B PIN 3)
5B PIN 3 & PAD X 5.95 Y 6.35 (5B PIN 4)
5B PIN 4 & PAD X 5.95 Y 6.45 (5B PIN 5)
5B PIN 5 & PAD X 5.95 Y 6.55 (5B PIN 6)
5B PIN 6 & PAD X 5.95 Y 6.65 (5B PIN 7)
5B PIN 7 & PAD X 5.45 Y 6.65 (5B PIN 10)

(b) 48 PIN 12 & PAD X 5.95 Y 7.40 (6B PIN 9)
6B PIN 9 & PAD X 5.975 Y 9.10 (C24)

(c) 48 PIN 7 & PAD X 5.45 Y 6.75 (5B PIN 9)
5B PIN 9 & PAD X 6.375 Y 9.10 (C18)

(d) PAD X 5.95 Y 7.30 (6B PIN 8) &
PAD X 5.95 Y 6.15 (5B PIN 2)
5B PIN 2 & PAD X 7.025 Y 9.00 (C03)

(e) PAD X 6.45 Y 6.35 (5B PIN 13) & PAD X 6.65 Y 6.55 (#4)

(f) PAD X 6.65 Y 6.35 (#X) & PAD X 5.425 Y 9.00 (C35)

(g) PAD X 6.65 Y 6.15 (#B) & PAD X 5.45 Y 6.45 (5B PIN 12)

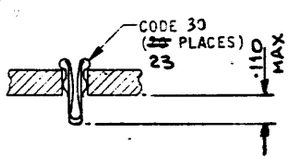
(h) PAD X 3.15 Y 8.55 (CODE 49 A) & PAD 5.45 Y 7.80 (6B PIN 2)
6B PIN 2 & PAD X 5.45 Y 7.90 (6B PIN 1)
6B PIN 1 & PAD X 6.25 Y 7.80 (CODE 46 B)

(i) PAD X 5.45 Y 7.70 (6B PIN 3) & PAD X 6.75 Y 8.00 (CODE 12 A)
CODE 12 A & PAD X 6.75 Y 7.80 (CODE 46 A)

(j) PAD X 5.45 Y 7.50 (6B PIN 5) & PAD X 5.45 Y 7.60 (6B PIN 4)
6B PIN 4 & PAD X 6.25 Y 8.00 (CODE 12 B)
CODE 12 B & PAD X 6.25 Y 7.60 (CODE 46 B)
CODE 46 B & PAD X 6.25 Y 7.40 (CODE 47 B)

(k) PAD X 3.15 Y 8.05 (CODE 49 B) & PAD X 5.45 Y 7.40 (6B PIN 6)
6B PIN 6 & PAD X 5.95 Y 7.50 (6B PIN 10)
6B PIN 10 & PAD X 6.75 Y 7.40 (CODE 47 A)
CODE 47 A & PAD X 6.75 Y 7.60 (CODE 46 A)

(l) PAD X 1.05 Y 3.50 (3H PIN 13) &
PAD X 1.30 Y 6.05 (5H PIN 2).



SECTION A-A

3180 6870

DWG NO ~~2769 4942~~
SHEET 1 OF ## 2
RELEASED FEB.01.80

ER 03450 A

ECN 62512 B
2-19-79
CODE 26 WAS 2603 8261

ECN 63684 C
1377 1845(1) ADDED
1536 3674(1) ADDED
2769 4959 WAS REV B
ER 2-19-79

ECN 62787 D
1479 0240(1) REMOVED
1479 7971(1) REMOVED
2600 1487(1) ADDED
2600 1495(1) ADDED
2769 4959 WAS REV C
NOTE 4 REVISED

DO NOT SCALE

TECHNICAL SERVICES APPROVAL					
METALLURGICAL	DATE	CHEMICAL	DATE	COMPONENTS	DATE

LAYOUT NO | GEN QUAL SPECS #183 5543 APPLY

TOLERANCES UNLESS OTHERWISE NOTED — DRAWN J.MAISEL — DATE 11-3-78

MATERIAL — CHECKED R. BELVILLE — DATE 11-17-78

HEAT TREATMENT — DSGN OR ENGR R.TEVLIN — DATE 6-6-78

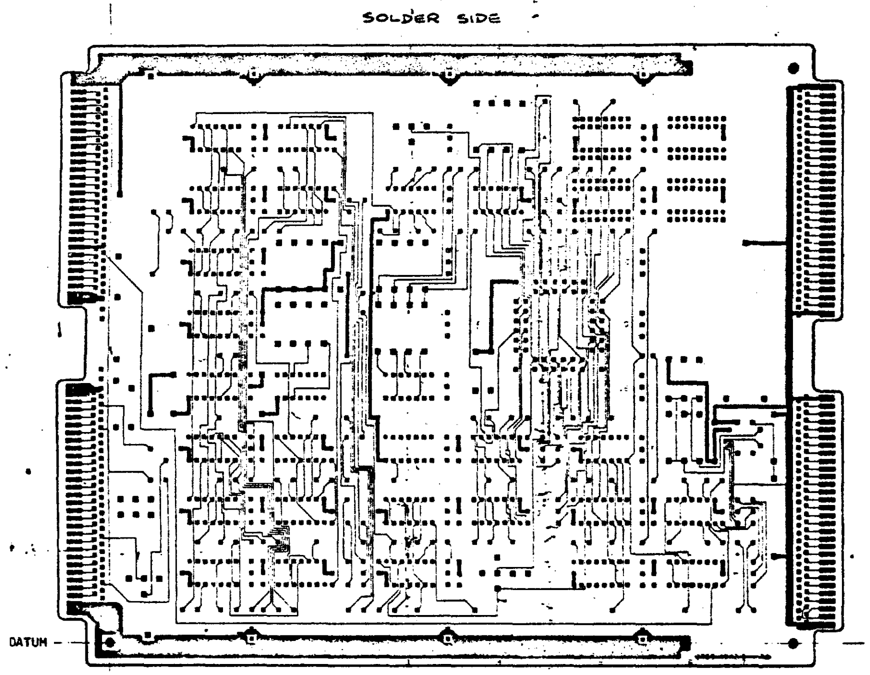
SURFACE TREATMENT — APPROVED — DATE 11-17-78

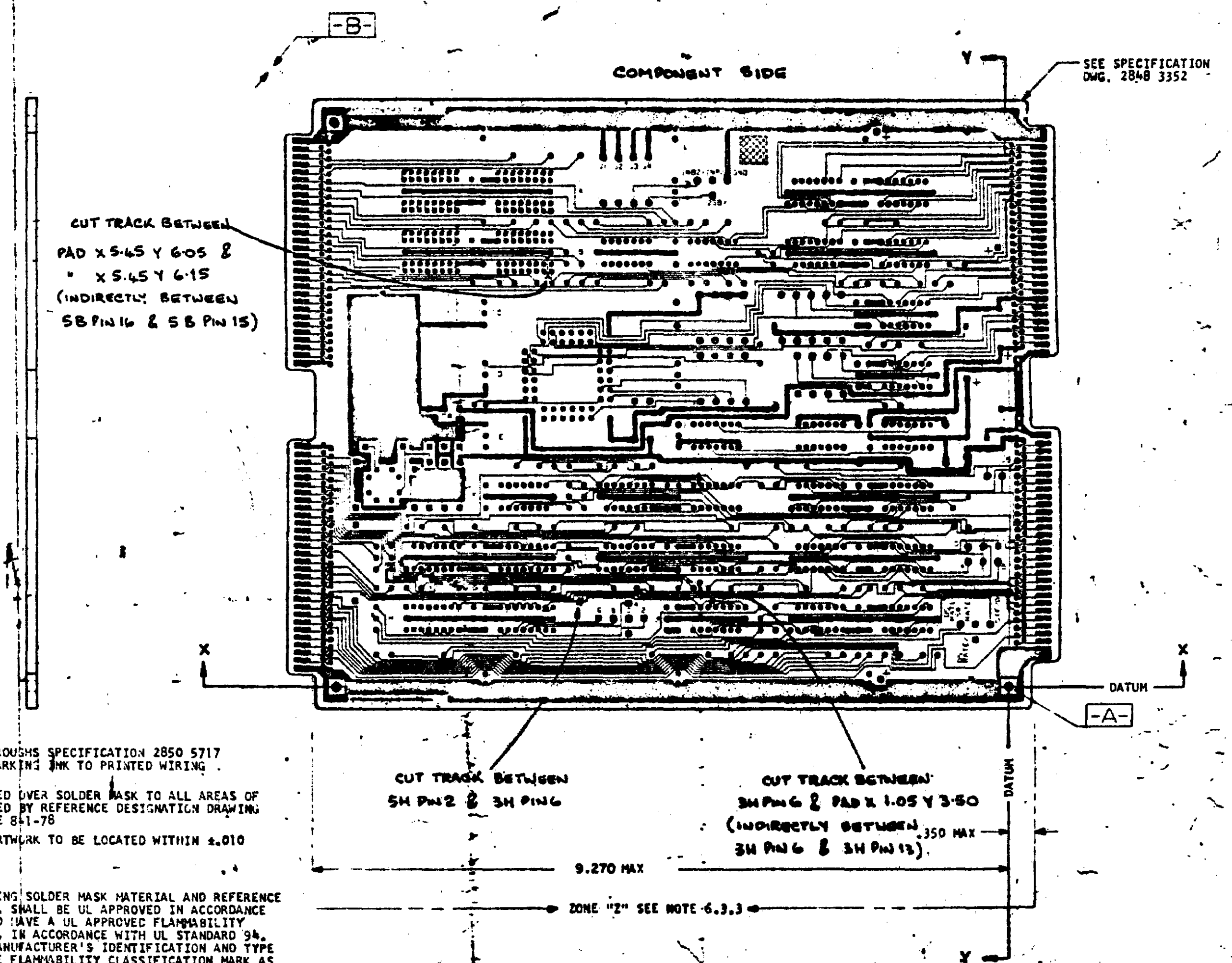
Burroughs Corporation
SMALL SYSTEMS GROUP PLYMOUTH PLANT
PLYMOUTH, MICHIGAN 48170 U.S. AMERICA

TITLE: BOARD ASSEMBLY, PRINTED WIRING ADC CONTROLLER — CLASS CODE 2-7045

SCALE — | SHEET 2 1 OF ## 2 | DWG NO 3180 6870 ~~2769 4942~~ | REV A D

ORIGINAL





NOTES: 3180 6888

1. FOR SCHEMATIC SEE ~~2769 4959~~
2. BURROUGHS SPECIFICATION 2850 1005, (GENERAL REQUIREMENTS FOR RIGID, DOUBLE-SIDED PRINTED WIRING BOARDS) APPLIES. CONDUCTOR WIDTH AND SPACING TO MEET REQUIREMENTS AS SPECIFIED FOR CLASS 3 PRINTED WIRING BOARDS.
   - 2.1 CONDUCTIVE MATERIAL WITH SPACING LESS THAN .010 FROM ANY CONDUCTOR MUST BE .010 MIN FROM ANY OTHER CONDUCTOR OR CONDUCTIVE MATERIAL.
3. MATERIAL:
   - 3.1 BURROUGHS TECHNICAL STANDARD MATERIAL SPECIFICATION 1270 6412 EXCEPT THAT THE OVERALL THICKNESS AND TOLERANCE, (PARAGRAPH 3.1.2) SHALL BE .062±.005 EPOXY GLASS BASE.

     LAMINATE TO BE COPPER CLAD, 1 OZ/FT^2, TWO SIDES, OR PLYMOUTH PRODUCT ENGINEERING APPROVED EQUIVALENT MATERIAL.
4. CONDUCTORS AND PADS ARE AS PRODUCED BY ARTWORK 2769 4934 DATED 8-1-78
5. EXCEPT FOR TOOLING HOLES, ALL HOLE CENTERS ARE LOCATED IN REFERENCE TO A .025 INCH GRID SYSTEM FROM DATUM -A- AND -B- LOCATIONAL TOLERANCES ARE ±.003 OF THE SPECIFIED TRUE POSITION. SEE PWB HOLE LOCATION DWG 2769 5766 REV A ER DATE 8-1-78
6. SOLDER MASK: BURROUGHS SPECIFICATION 2847 6057 (GENERAL REQUIREMENTS FOR SOLDER MASK APPLICATION TO RIGID PRINTED WIRING BOARDS) APPLIES.
   - 6.1 TIN-LEAD PLATING ON ALL CONDUCTORS MUST BE REFLOWED BEFORE SOLDER RESIST MATERIAL IS APPLIED.
   - 6.2 MATERIAL:
     - 6.2.1 CLASS 1
     - 6.2.2 COLOR: GREEN
   - 6.3 SOLDER MASK (RESIST) MATERIAL TO BE APPLIED TO BOTH SIDES AS DEFINED BY SOLDER MASK DRAWING 2769 5774 REV A ER DATE 8-1-78
     - 6.3.1 ALIGNMENT OF SOLDER MASK MUST BE HELD TO WITHIN ±.003 OF DATUM.
     - 6.3.2 RESIST MATERIAL SHALL NOT COVER ANY PORTION OF A PAD.
     - 6.3.3 NO RESIST SHALL BE ALLOWED TO EXCEED ZONE "Z".
   - 6.4 APPLIED RESIST SHALL NOT BLISTER, PEEL OR CRACK AFTER IMMERSION IN A 260°C (500°F) SOLDER POT FOR TEN SECONDS.
   - 6.5 DIELECTRIC WITHSTAND: THE SOLDER MASK MATERIAL SHALL WITHSTAND 500 VOLTS DC OR 500 VOLTS AC PER MIL THICKNESS FOR ONE MINUTE WITHOUT EVIDENCE OF ARCING, BREAKDOWN, OR PHYSICAL DAMAGE.
7. REFERENCE DESIGNATIONS: BURROUGHS SPECIFICATION 2850 5717 (REQUIREMENTS FOR APPLYING MARKING INK TO PRINTED WIRING BOARDS) APPLIES.
   - 7.1 MARKING INK TO BE APPLIED OVER SOLDER MASK TO ALL AREAS OF COMPONENT SIDE AS DEFINED BY REFERENCE DESIGNATION DRAWING 2769 7374 REV A ER DATE 8-1-78
   - 7.2 REFERENCE DESIGNATION ARTWORK TO BE LOCATED WITHIN ±.010 OF DATUM.
8. UL REQUIREMENTS:
   - 8.1 FINISHED BOARDS, INCLUDING SOLDER MASK MATERIAL AND REFERENCE DESIGNATION MARKING INK, SHALL BE UL APPROVED IN ACCORDANCE WITH UL STANDARD 796 AND HAVE A UL APPROVED FLAMMABILITY RATING OF 94V-1 MINIMUM, IN ACCORDANCE WITH UL STANDARD 94. BOARDS SHALL BEAR THE MANUFACTURER'S IDENTIFICATION AND TYPE NUMBER TOGETHER WITH THE FLAMMABILITY CLASSIFICATION MARK AS AUTHORIZED BY UL.
   - 8.2 THE PRINTED WIRING BOARD SHALL BE UL APPROVED FOR A MINIMUM SOLDERING TEMPERATURE OF 288°C FOR A MINIMUM SOLDERING TIME OF SEVEN SECONDS AND FOR 105°C MINIMUM OPERATING TEMPERATURE.

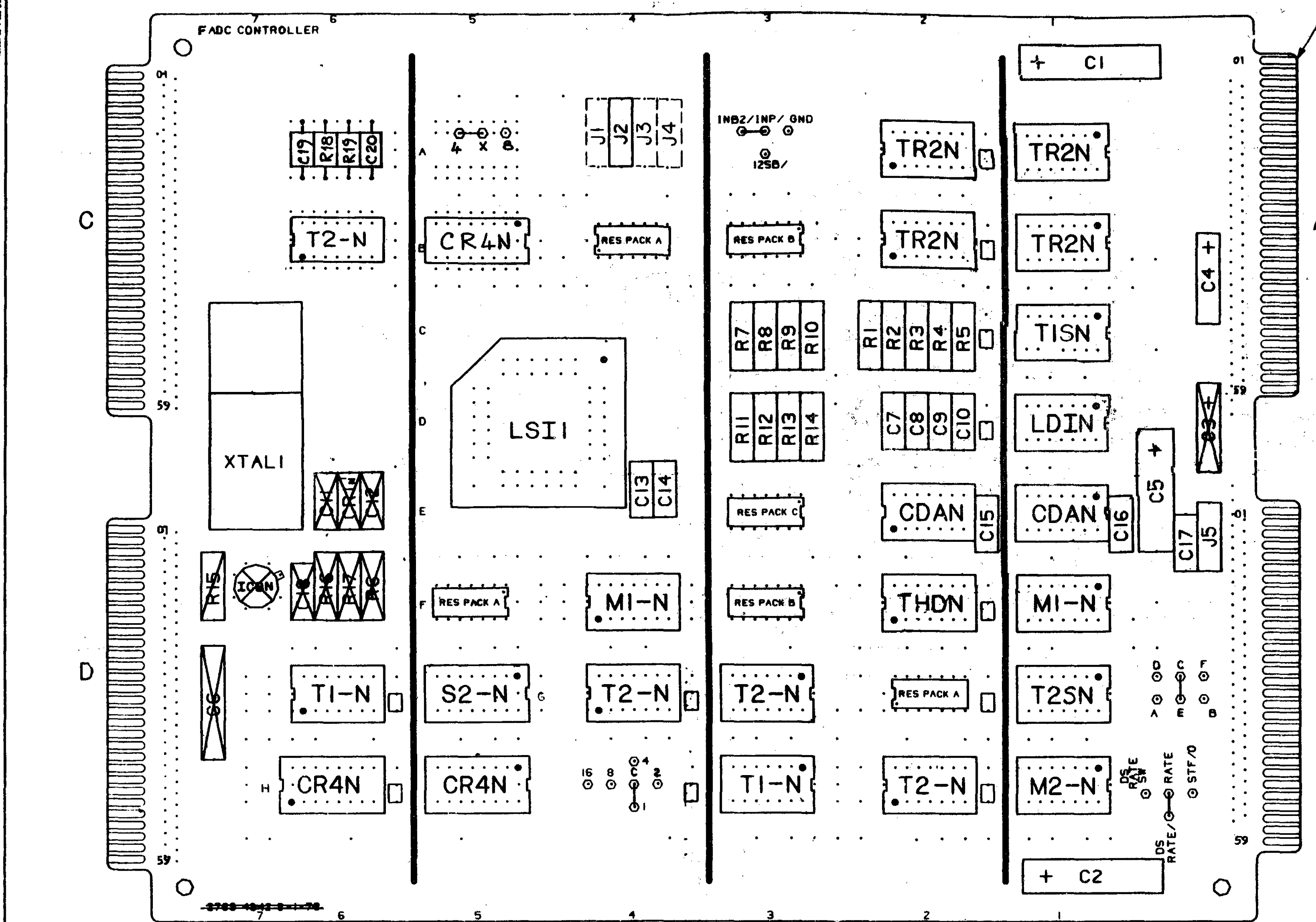
UNLESS OTHERWISE SPECIFIED:

1. PLATE THROUGH ALL HOLES.
2. THE TWO CIRCUITRY HOLE DIAMETERS ARE .040±.003 AND .055±.003.
3. [marking area symbol] INDICATES THE APPROXIMATE LOCATION FOR THE MARKING AREA (SEE NOTE 8.1)
   - 3.1 CHARACTERS GOTHIC .06 HIGH MIN. METHOD OF MFG OPTIONAL.

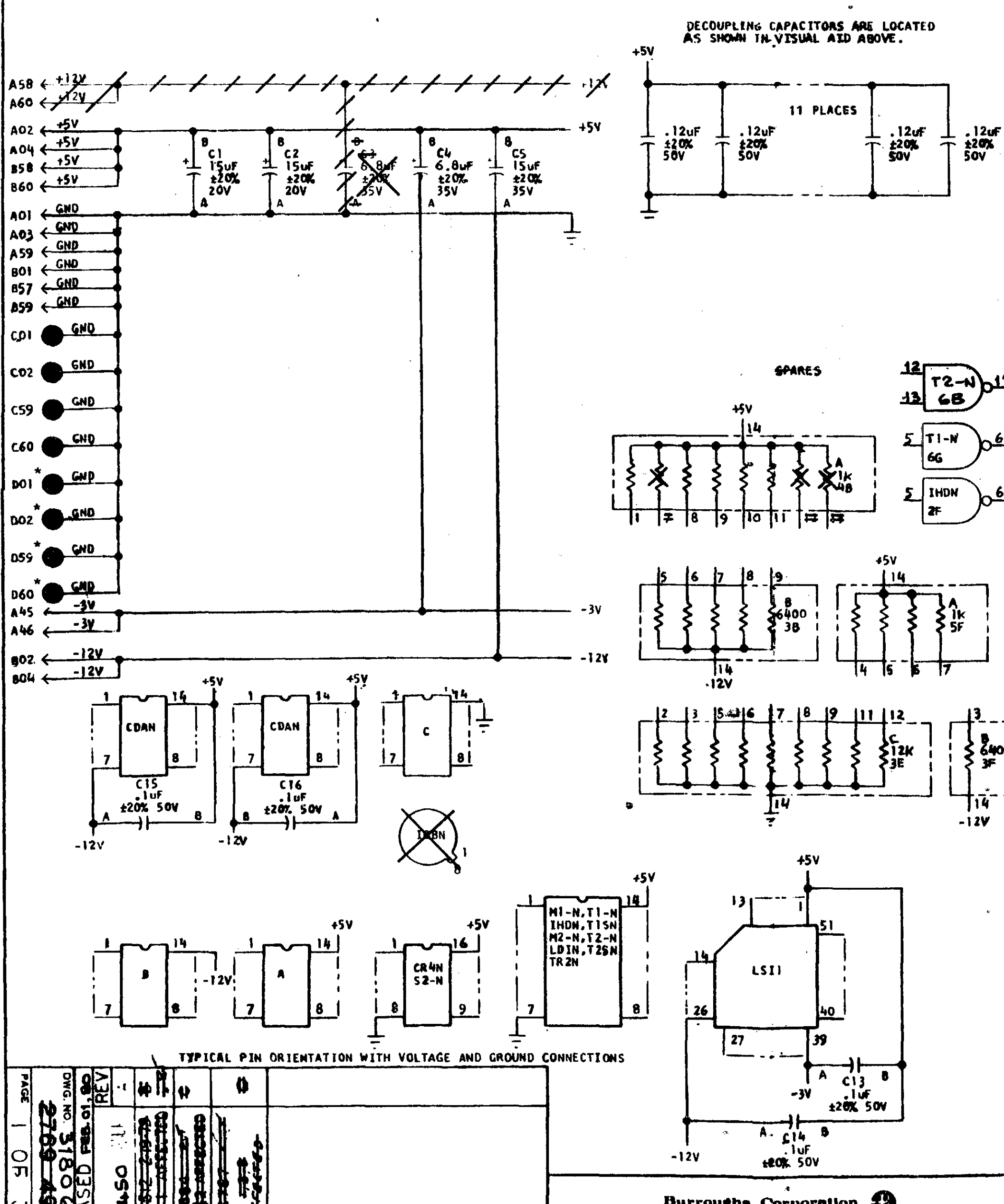
DO NOT SCALE

TECHNICAL SERVICES APPROVAL						LAYOUT NO	GEN QUAL SPECS APPLY
METALLURGICAL	DATE	CHEMICAL	DATE	COMPONENTS	DATE		
TOLERANCES UNLESS OTHERWISE NOTED				DRAWN E. KARAS	DATE 11-14-78	Burroughs Corporation, SYSTEMS M & E GROUP, PLYMOUTH, MICHIGAN 48170	PLYMOUTH PLANT U.S. AMERICA
MATERIAL AS SPECIFIED				CHECKED	DATE 11-16-78		
HEAT TREATMENT				DESGN or ENGR R. TEVLIN	DATE 6-5-78	TITLE BOARD, PRINTED WIRING ADC CONTROLLER	CLASS CODE 2-7010
SURFACE TREATMENT AS SPECIFIED				APPROVED	DATE 11-16-78	SCALE ~ SHEET 2 OF 2 DWG NO 3180 6870 ~~2769 4934~~	REV. 4

DWG NO 3180 6870 ~~2769 4934~~ SHEET 2 OF 2 RELEASED FEB 01 80 ER 03450



NOTE:
PIN "A" OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FURTHEST TO THE RIGHT



NOTES:

1. FOR ASSEMBLY SEE ~~2769 4942 REV C~~ 3180 6870 Rev A
~~FOR FINAL ASSEMBLY SEE 2769 4967(PL) 57.6 KHz~~
~~2769 4975(PL) 153.6 KHz~~

2. CO-ORDINATE WITHIN THE LOGIC SYMBOL INDICATES LOCATION OF PACKAGE.

3. CODES USED FOR DENOTING COMPONENT PART NUMBERS ARE AS FOLLOWS:

I.C.'S

T2-N - 1447 3516	T1SN - 2600 1495
T1-N - 1447 3532	THDN - 1674 4963
CR4N - 1447 3771	LDIN - 1848 4576
M1-N - 1471 4356	LSI1 - 1845 9875
M2-N - 1471 4364	CDAN - 1846 5229
~~[illegible]~~	TR2N - 2472 2548
T2SN - 2600 1487	S2-N - 2472 5566

LSI1 - 18459875

RESISTOR PACKAGE
A - 1846 4610
B - 1846 5203
C - 2472 7992

CRYSTAL
XTAL - ~~SEE NOTE 5~~ 1537 2683

~~DIODE~~
~~[illegible]~~

4. ALL FRONTPLANE PINS INDICATED WITH AN ASTERISK MUST MATE WITH FRONTPLANE PINS OF ASSEMBLY LOCATED IN ADJACENT BOARD SLOT. SEE APPLICABLE PWB & I/O CONNECTOR LOCATION CHART.

5. SPEED:
~~FOR 57.6 KHz CRYSTAL USE 180pF CAPACITOR (C6)~~
~~FOR 153.6 KHz CRYSTAL USE 47pF CAPACITOR (C6)~~
INSERT JUMPERS AS INDICATED IN TABLE.

TRANSMISSION SPEED OPTIONS

RATE NORMAL	RATE FALLBACK	1.2288 MHz
200	150	C-16, E-A, X-8
300	200	C-16, E-B, X-8
400	300	C-8, E-A, X-8
600	300	C-16, E-C, X-8
600	400	C-8, E-B, X-8
800	600	C-4, E-A, X-8
1200	600	C-8, E-C, X-8
1200	800	C-4, E-B, X-8
1600	1300	C-2, E-A, X-8
2400	1200	C-4, E-C, X-8
2400	1600	C-2, E-B, X-8
3200	2400	C-1, E-A, X-8
4800	2400	C-2, E-C, X-8
4800	3200	C-1, E-B, X-8
9600	4800	C-1, E-C, X-8
19200	9600	C-1, E-C, X-4

(Crossed-out table: RATE NORMAL / FALLBACK, 2769 4967 (PL) 57.6 KHz)

~~NORMAL~~	~~FALLBACK~~	~~57.6 KHz~~
~~75~~	~~56.25~~	~~C-1[illegible], E-A~~
~~112.5~~	~~75~~	~~C-16, E-[illegible]~~
~~150~~	~~112.5~~	~~C-8, E-A~~
~~225~~	~~112.5~~	~~C-1[illegible], E-C~~
~~225~~	~~150~~	~~C-8, E-[illegible]~~
~~300~~	~~225~~	~~C-4, E-A~~
~~450~~	~~225~~	~~C-8, E-C~~
~~450~~	~~300~~	~~C-4, E-B~~
~~600~~	~~450~~	~~C-2, E-A~~
~~900~~	~~450~~	~~C-4, E-C~~
~~900~~	~~600~~	~~C-2, E-B~~
~~1200~~	~~900~~	~~C-1, E-A~~
~~1800~~	~~900~~	~~C-[illegible], E-C~~
~~1800~~	~~1200~~	~~C-1, E-[illegible]~~
~~3600~~	~~1800~~	~~C-1, E-C~~

6. CHARACTER FORMAT
FACTORY DELIVERY FORMAT IS THE ASCII 7-BIT CODE FOR ASYNCHRONOUS OPERATION. 1 START BIT, 7 DATA BITS IN ASCII CODES, 1 EVEN PARITY BIT AND 1 STOP BIT. IT CAN BE ALTERATED BY SELECTING FOLLOWING JUMPERS:
   1. PARITY JUMPER (IPS/): ODD PARITY: J1; EVEN PARITY: NO J1 JUMPER
   2. STOP BITS JUMPER (12SB/): 2 STOP BITS: J4; 1 STOP BIT: NO J4 JUMPER
   3. DATA BITS JUMPERS (INB1/, INB2/)

DATA BITS	JUMPERS
5	NONE
6	J3
7	J2
8	J3, J2

7. DATA SET ACCOMMODATION JUMPERS
FOR OTHER THAN THE NORMAL SOFTWARE SELECTION OF THE TRANSMISSION RATE: REMOVE JUMPER DS RATE/-RATE AND ALTER BY SELECTING FROM THE FOLLOWING JUMPERS:

	JUMPER
1) STF	STF/0-RATE
2) DS RATE SW. (MANUAL SELECTION)	DS RATE SW-RATE

UNLESS OTHERWISE SPECIFIED:
ALL DISCRETE RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2W
ALL RESISTOR PKG RESISTANCE VALUES ARE IN OHMS, ±2%, 1/8W

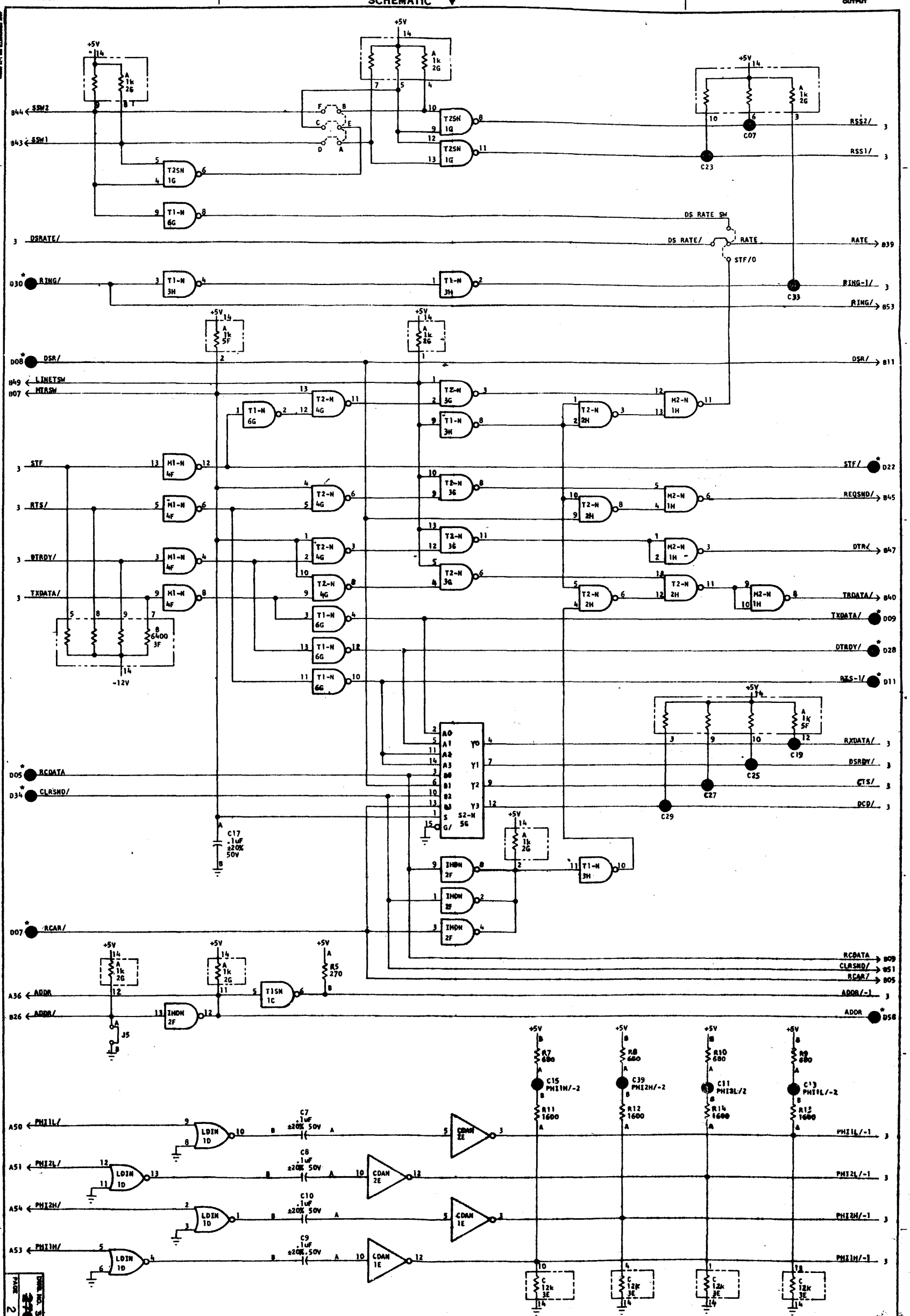
C.C.2-9520

PAGE 1 OF 3 | DWG. NO. 3180 6888 ~~2769 4959~~ | RELEASED FEB. 01, 80 | REV | ER03450

Burroughs Corporation
SMALL SYSTEMS GROUP, PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT, U.S. AMERICA

TITLE	SCHEMATIC, BOARD, FADC CONTROLLER
SYSTEM	
DRAWN	CHECKED
APPROVED	RELEASED FEB. 01, 80
DWG. NO.	3180 6888 ~~2769 4959~~
REV LETTER	A
PAGE	1 of 3

INPUT | SCHEMATIC | OUTPUT



Burroughs Corporation	TITLE SCHEMATIC, BOARD, FADC CONTROLLER	DWG. NO. 3160688	
SMALL SYSTEMS GROUP PLYMOUTH, MICHIGAN 48170 — PLYMOUTH PLANT U.S. AMERICA	SYSTEM	2700-4956	
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT	DRAWN / CHECKED / APPROVED / RELEASED FEB 01 80	REV LETTER = A	PAGE 3 of 3

PAGE 2 OF 3 — DWG. NO. 3160688 — 2700-4956

INPUT | SCHEMATIC | OUTPUT

A47 ← 16KHZ

XTAL 1.2288 MHz

T2-N 6B

R18 1K

C19 0.1uF 50V

R19 1K

C20 120pF 50V

C18

CR4N 5B

C03?

C24?

C35

CR4N 5H

CR4N 6H

SEE NOTE 5

T1-N 3H

C17

C21

C09

TOCO

RCLX16
TCLX16
TIMEREF
CLK
XTAL
TPS
INB1
INB2
T2SB
INP
PHI1L
PHI2L
PHI2H
PHI1H
RSS2
RSS1
RING
RCDATA
DSR
CTS
DCD
ADDR

B29 ← INP/

INB2/

T2SB/

GND SEE NOTE 7

J3 SEE NOTE 6

J4 SEE NOTE 6

J1 SEE NOTE 6

J2 SEE NOTE 6

IPS/

INB1/

INB2/

PHI1L/-1
PHI2L/-1
PHI2H/-1
PHI1H/-1
RSS2/
RSS1/
RING-1/
RXDATA/
DSRDY/
CTS/
DCD/
ADDR/-1

RTEST/
TTEST/

D03 * CCFF/

A39 ← IOX

A40 ← CONT/

A44 ← INIT

A38 ← DIR/

A05 ← WT0

A07 ← WT1

A09 ← WT2

A11 ← WT3

A13 ← WT4

A15 ← WT5

A17 ← WT6

A19 ← WT7

T2SN 1G

T1SN 1C

C05

R1 270

R4 270

R3 270

R2 270

TR2N 1A

TR2N 2A

TR2N 1B

MDS1
MDS2
W1
R1
TE
RE
R2
W2
T1/
I1/
I2/
T2/

IOX
CONT/
INIT
DIR/
I/00
I/01
I/02
:/03
I/04
I/05
I/06
I/07

LSIC 4C

B 6400 3B

-12V

CLX16/

RQST/

RCL/

M1-N 4F

M1-N 2F

C31

REQ/ → A35

RCLTP C37

B 6400 3F

TRDATA
DTR
RTS
STF

TXDATA/ 2
DTRDY/ 2
RTS/ 2
STF 2

DM
BR
WAF
DSRATE

M1-N 1F

DM/ → B32
DM/ D36

ORIG/ → B42
ORIG/ D38

SSB → B30
SSB D56

DSRATE/ 2
DSRATE/ D39

PRD0 → A06
DIN0/ D16
DIN1/ D14
PRD1 → A08
PRD2 → A10
DIN2/ D50
DIN3/ D48
PRD3 → A12
PRD4 → A14
DIN4/ D46
DIN5/ D44
PRD5 → A16
PRD6 → A18
DIN6/ D45
DIN7/ D42
PRD7 → A20
DIR/-1 D26

PAGE 3 OF 3

DWG. NO. 3180 6888 ~~2700 4050~~

Burroughs Corporation
SMALL SYSTEMS GROUP
PLYMOUTH, MICHIGAN 48170
PLYMOUTH PLANT
U. S. AMERICA

TITLE SCHEMATIC, BOARD, FADC CONTROLLER
SYSTEM
DRAWN ~~[illegible]~~
CHECKED
APPROVED
RELEASED FEB.01.80
REV LETTER * A
DWG. NO. 3180 6888 ~~2700 4050~~
PAGE 3 OF 3

INPUTS A B C OUTPUTS D

E.R/E.C.N. NUMBER	E.R/E.C.N. DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	ARTWORK DATE	CHANGE DESCRIPTION	DRN	ENG
ER02879		A	A	A	A	A	A	A	A	A	A	A								MAR 31 '79			
ECN03665	JUN.30.80	B	B	A	A	A	A	A	A	A	A	A									SHT. 2, ITEM 1 & 2 PART Nº ALTERED. JUN.30.80	G.N.	[illegible]
ECN03757	JUL. 4, 80	B	B	A	A	A	A	A	A	A	A	A									INACTIVE	A.R	[illegible]
ECN 04071	DEC 9, 80	A	A	A	A	A	A	A	A	A	A	A								MAR 31, 79	1 CUT & 3 LINKS ADDED UNDER EMER. REWORK INSTR. 04071	CB.	

(Status of sheet column groups: CONTROL PAGE; SCHEMATICS; BASEBOARD; HOLE LOCNS; SOLDER MASK)

INDICATES CHANGE PRODUCT ENGINEERING DEC. 9, 1980

EMERGENCY REWORK INSTRUCTION ECN 04071

ORIGINAL

Burroughs

SPECIFICATION S.D.C.Y.

JMS MAR '79

OCT 5, 79

3181 1375

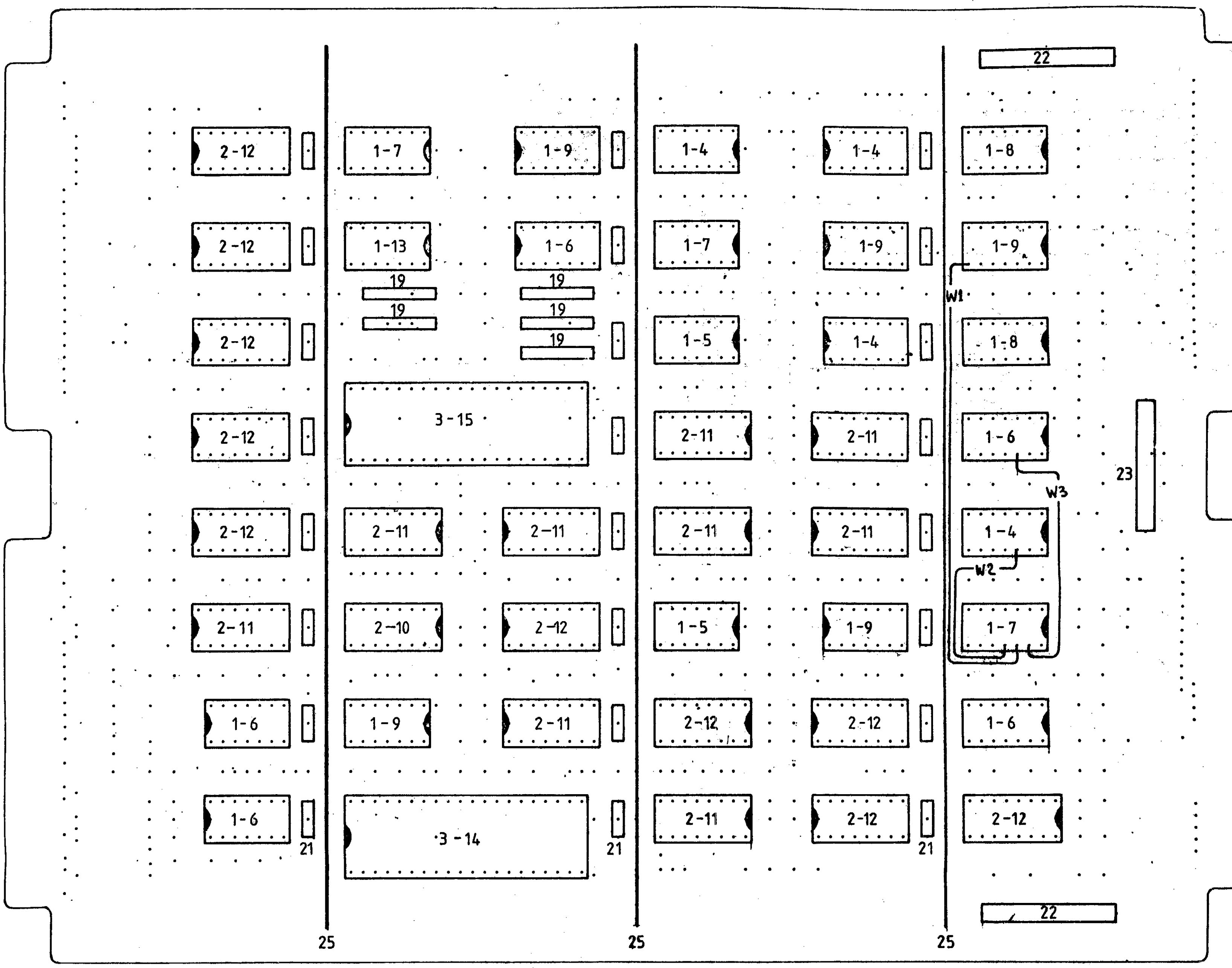
~~3180 3224~~

A1

B A 1 11

INPUTS

OUTPUTS



NOTES:

1. MAXIMUM HEIGHT OF IC PACKAGES IN SOCKET .450 FROM CARD SURFACE
2. INSERT IC PACKAGES IN SOCKETS AFTER FLOW SOLDER
3. ASSEMBLE THESE COMPONENTS AFTER FLOW SOLDER

UNLESS OTHERWISE SPECIFIED

1. MAXIMUM HEIGHT OF COMPONENTS .38 FROM BOARD SURFACE
2. SOLDER ALL TERMINATIONS, SEE SPECIFICATION 81 F
3. LEAD PROTRUSION FROM BOARD SURFACE .06 MAX.

LIST OF COMPONENTS (REF)

ITEM	DESCRIPTION	PART NO	CODE	REQ
1	SOCKET 14 PIN	2853 5706		22
2	SOCKET 16 PIN	2853 5714		20
3	★ SOCKET 40 PIN	2770 2448 ~~2633032~~		2
4	I.C. SN 7400	1447 3516	T2-N	4
5	I.C. SN 7402	2600 4911	T2N N	2
6	I.C. SN 7404	1447 3532	T1-N	5
7	I.C. SN 7408	1447 3524	T2AN	3
8	I.C. SN 7420	14473565	T4-N	2
9	I.C. SN 7474	14473607	DF-N	5
10	I.C. SN 7485	14492052	MC4N	1
11	I.C. SN 74157	14473797	S2-N	9
12	I.C. SN 74175	14491278	DR4N	10
13	I.C. SN 7438	14473581	B2CN	1
14	TRANSMITTER PT 1482 B	2571 9972		1
15	RECEIVER PR1472 B	25719980		1
16				
17				
18				
19	RESISTOR 1KΩ ¼W	12681318		5
20				
21	CAPACITOR 0.1μF 50V	2848 3956		24
22	CAPACITOR 100μF 10V	1267 9353		2
23	CAPACITOR 47μF 20V	1267 9262		1
24				
25	BUS BAR	28489805		3
26				
27				
28				
29				
30				

ITEM	DESCRIPTION	PART NO	CODE	REQ
31				
32				
33				
34				
35				
36				
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60				

★ INDICATES CHANGES PRODUCT ENGINEERING DEC. 5, 1980

EMERGENCY REWORK INSTRUCTIONS ECN 04071

FOR SCHEMATIC SEE SHEETS 2 THRU. 6
FOR BASE BOARD SEE SHEET 9
FOR HOLE LOCATIONS SEE SHEET 10
FOR SOLDER MASK SEE SHEET 11

FOR PARTS LIST SEE 3181 1367 ~~3180 3704~~ ★

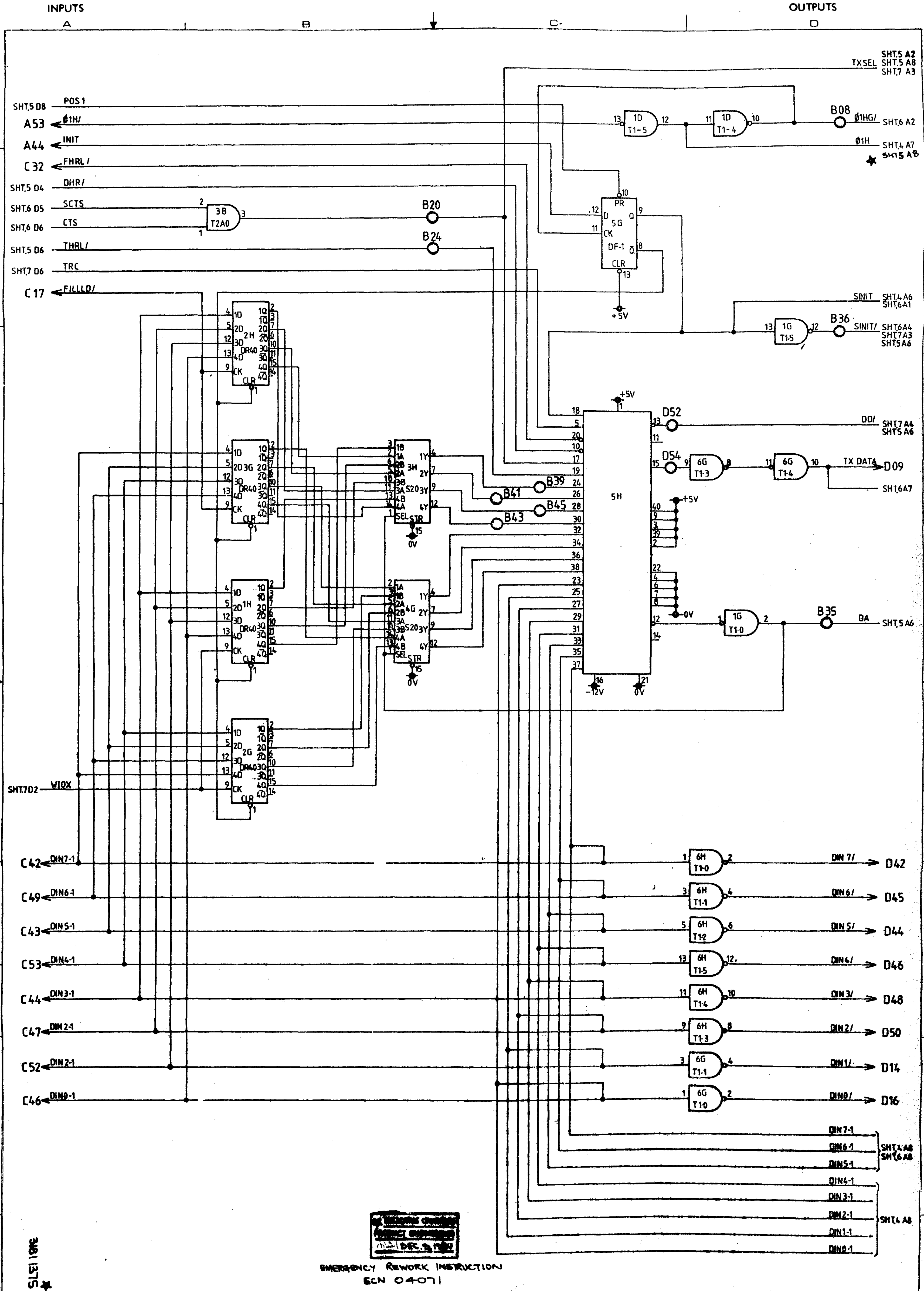
DO NOT SCALE

Burroughs — SMALL SYSTEMS DIVISION, BURROUGHS MACHINES LIMITED, CUMBERNAULD, SCOTLAND U.K.

TITLE	P.W.B. SPECIFICATION FOR S.D.C.Y.		
DRAWN	JMS	DATE	MAR. 79
DRG. SIZE	A1	DRAWING No.	3181 1375 ★ ~~3180 3224~~
REV	~~B~~ A	PAGE	2 of 11

3181 1375 ~~3180 3224~~ ★

OCT 5,79


INPUTS
OUTPUTS
SHT.5 D8 POS 1
A53 Ø1H/
A44 INIT
C32 FHRL/
SHT.5 D4 DHR/
SHT.6 D5 SCTS
SHT.6 D6 CTS
SHT.5 D6 THRL/
SHT.7 D6 TRC
C17 FILLLD/
SHT.7 D2 WIOX
C42 DIN7-1
C49 DIN6-1
C43 DIN5-1
C53 DIN4-1
C44 DIN3-1
C47 DIN2-1
C52 DIN2-1
C46 DIN0-1
TXSEL SHT.5 A2 SHT.5 A8 SHT.7 A3
B08 Ø1HG/ SHT.6 A2
Ø1H SHT.4 A7 SHT.5 A8
SINIT SHT.4 A6 SHT.6 A1
B36 SINIT/ SHT.6 A4 SHT.7 A3 SHT.5 A6
D52 DD/ SHT.7 A4 SHT.5 A6
D54 TX DATA D09
SHT.6 A7
B35 DA SHT.5 A6
B20
B24
B39
B41
B45
B43
5G DF-1
5H
3B T2A0
2H DR40
3G DR40
1H DR40
2G DR40
3H S20
4G S20
+5V
0V
-12V
DIN 7/ D42
DIN 6/ D45
DIN 5/ D44
DIN 4/ D46
DIN 3/ D48
DIN 2/ D50
DIN 1/ D14
DIN 0/ D16
DIN 7-1
DIN 6-1
DIN 5-1
SHT.4 A8 SHT.6 A8
DIN 4-1
DIN 3-1
DIN 2-1
DIN 1-1
DIN 0-1
SHT.4 A8
EMERGENCY REWORK INSTRUCTION
ECN 04071
3181 1375

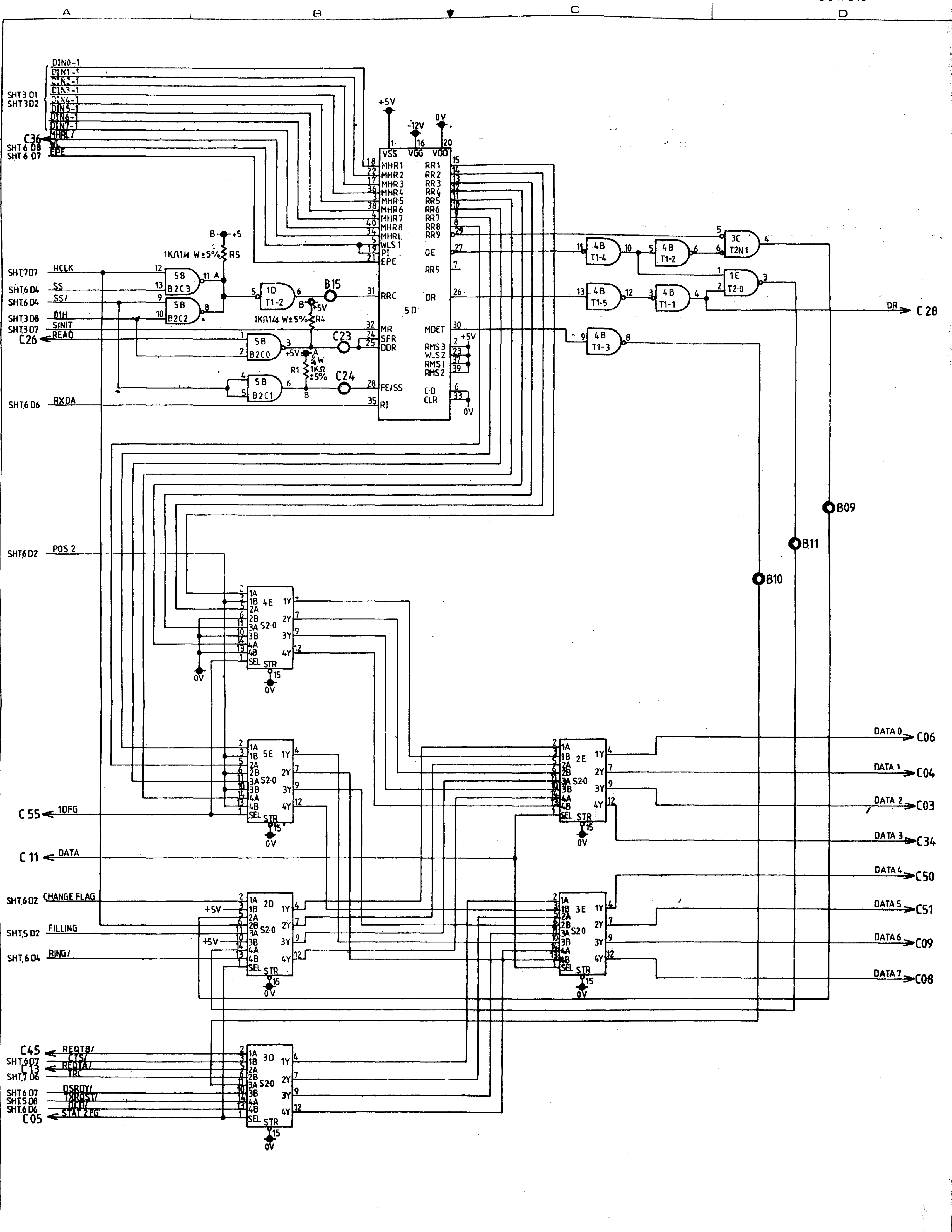
PAGE	DRAWING No	RELEASED		
3 of 11	~~3180 3224~~	OCT 5 '79		

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

DSGN. CONTROL 308	TITLE SPECIFICATION SDC'Y			
DSGN ENGR	DATE MAR 79	DRAWN JMS	DATE MAR 31 '79	DRAWING No 3181 1375 ~~3180 3224~~
APPROVED	DATE 3 Dec 79	CHECKED	DATE	
ENG. COMP.	DATE	DRG. SIZE A1	CLASS CODE 2-7045	REV A	PAGE 3 of 11

INPUTS OUTPUTS



DIN0-1 DIN1-1 DIN2-1 DIN3-1 DIN4-1 DIN5-1 DIN6-1 DIN7-1
SHT3 D1
SHT3 D2
C36 MHRL/
SHT6 D8
SHT6 D7 EPE
+5V
-12V
0V
VSS VGG VDD
MHR1 MHR2 MHR3 MHR4 MHR5 MHR6 MHR7 MHR8 MHRL WLS1 PI EPE
RR1 RR2 RR3 RR4 RR5 RR6 RR7 RR8 RR9
OE
RR9
DR
5D
RRC
MR SFR DDR
MDET
RMS3 WLS2 RMS1 RMS2
FE/SS
C-D CLR
RI
1KΩ1/4 W±5% R5
1KΩ1/4 W±5% R4
R1 1/4W 1KΩ ±5%
SHT7D7 RCLK
SHT6 D4 SS
SHT6 D4 SS/
SHT3 D8 Ø1H
SHT3 D7 SINIT
C26 READ
SHT6 D6 RXDA
5B B2C3
5B B2C2
1D T1-2
B15
5B B2C0
C23
5B B2C1
C24
4B T1-4
4B T1-2
3C T2N-1
1E T2-0
4B T1-5
4B T1-1
4B T1-3
DR C28
B09
B11
B10
SHT6 D2 POS 2
4E S2-0
5E S2-0
2E S2-0
C55 1DFG
C11 DATA
SHT.6 D2 CHANGE FLAG
SHT.5 D2 FILLING
SHT.6 D4 RING/
2D S2-0
3E S20
DATA 0 C06
DATA 1 C04
DATA 2 C03
DATA 3 C34
DATA 4 C50
DATA 5 C51
DATA 6 C09
DATA 7 C08
C45 REQTB/
SHT6 D7 CTS/
C13 REQTA/
SHT.7 D6 TRC
SHT6 D7 DSRDY/
SHT5 D8 TXRQST/
SHT6 D6 DCD/
C05 STAT 2FG
3D S20

☆ 3181 1375

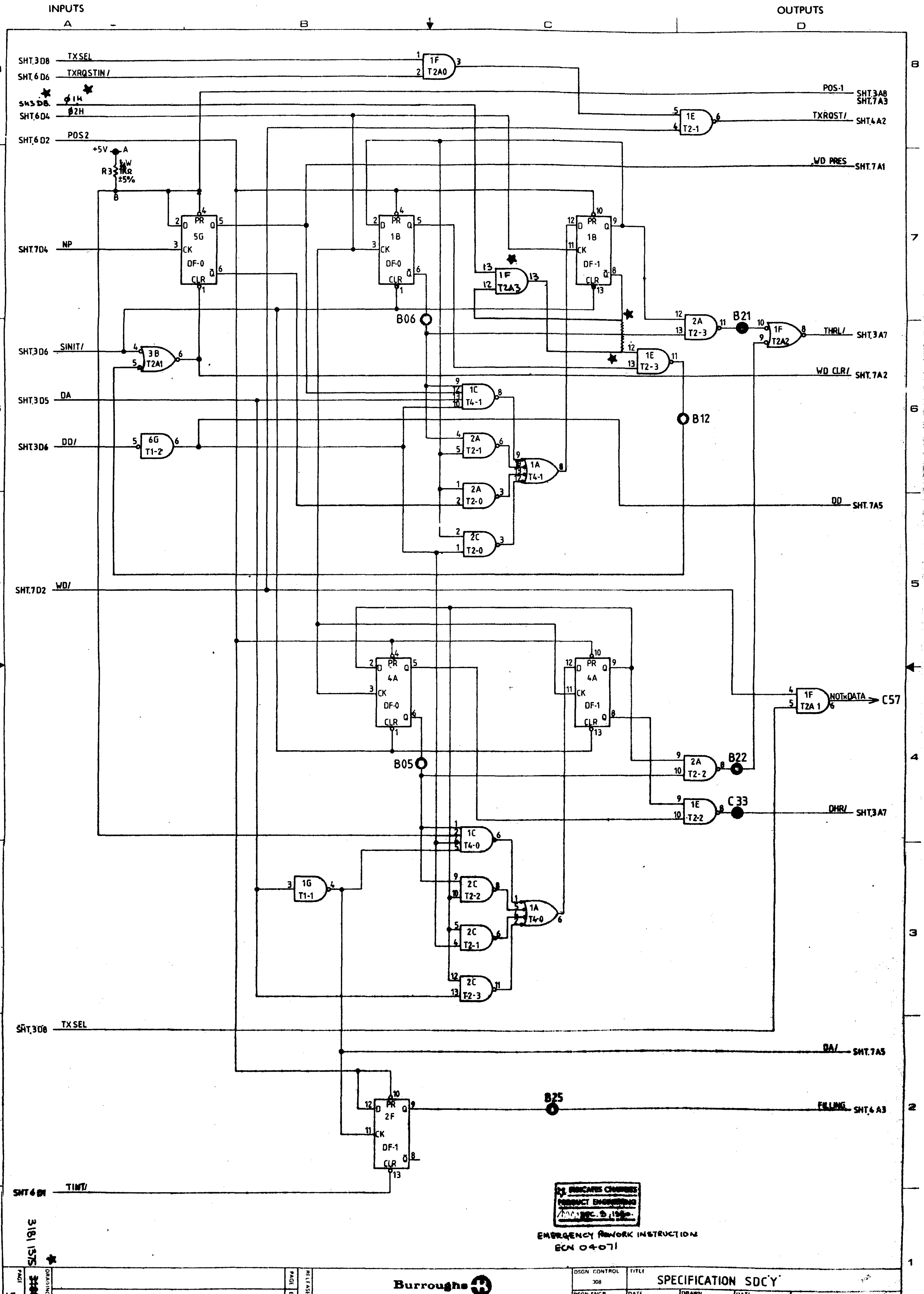
☆ INDICATES CHANGE
PRODUCT ENGINEERING
DEC 5 1980

EMERGENCY REWORK INSTRUCTION
ECN 04071

PAGE	4 of 11
DRAWING No	~~3180 3224~~ ☆
RELEASED	OCT 5 '79

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD SCOTLAND, U.K.

DSGN CONTROL	308
TITLE	SPECIFICATION SDCY
DRAWN	JMS
DATE	MAR 31 '79
DRAWING No	3181 1375 ☆ (~~3180 3224~~)
DRG SIZE	A1
CLASS CODE	2-7045
REV	A
PAGE	4 of 11



3181 1375

Burroughs

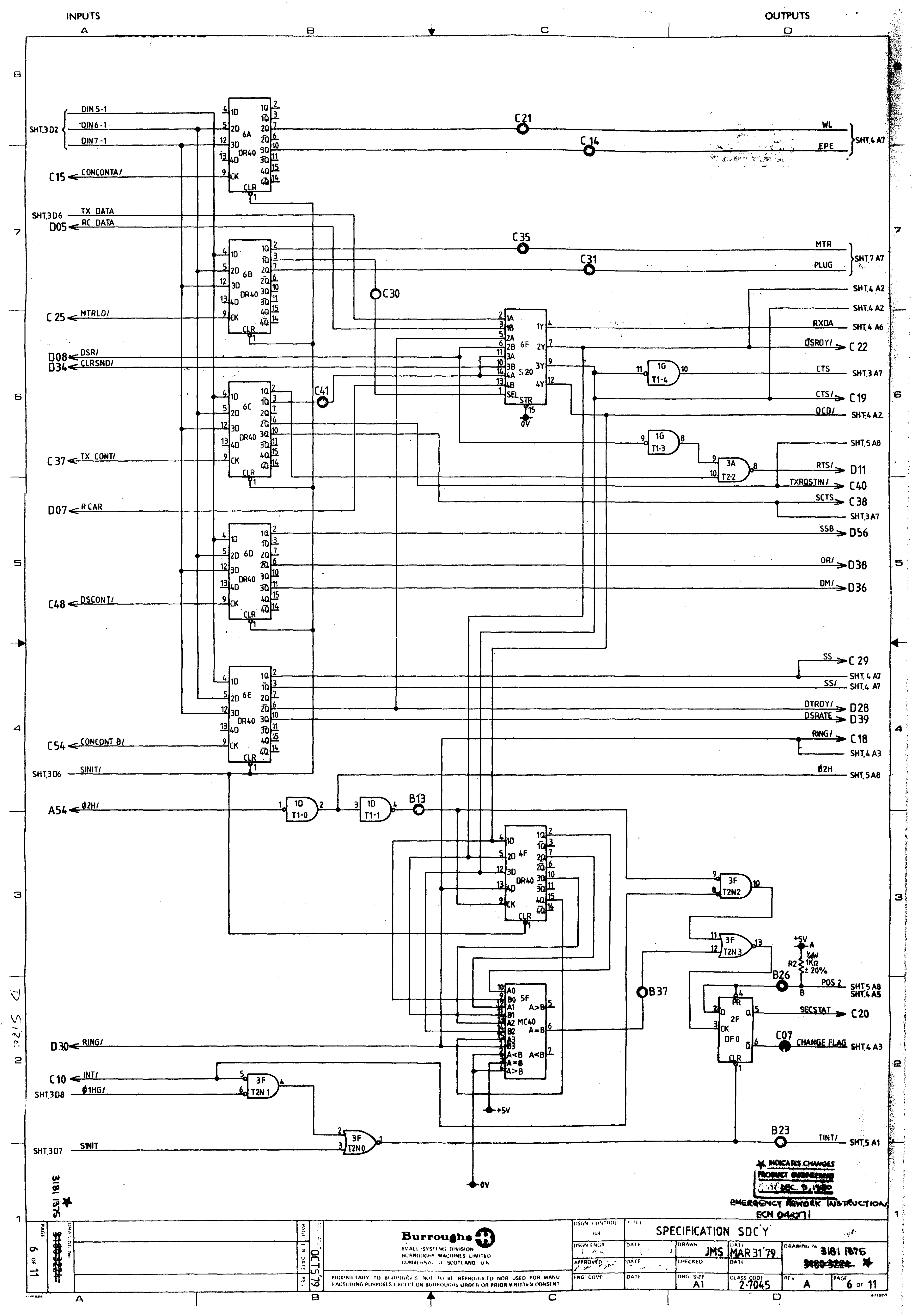
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

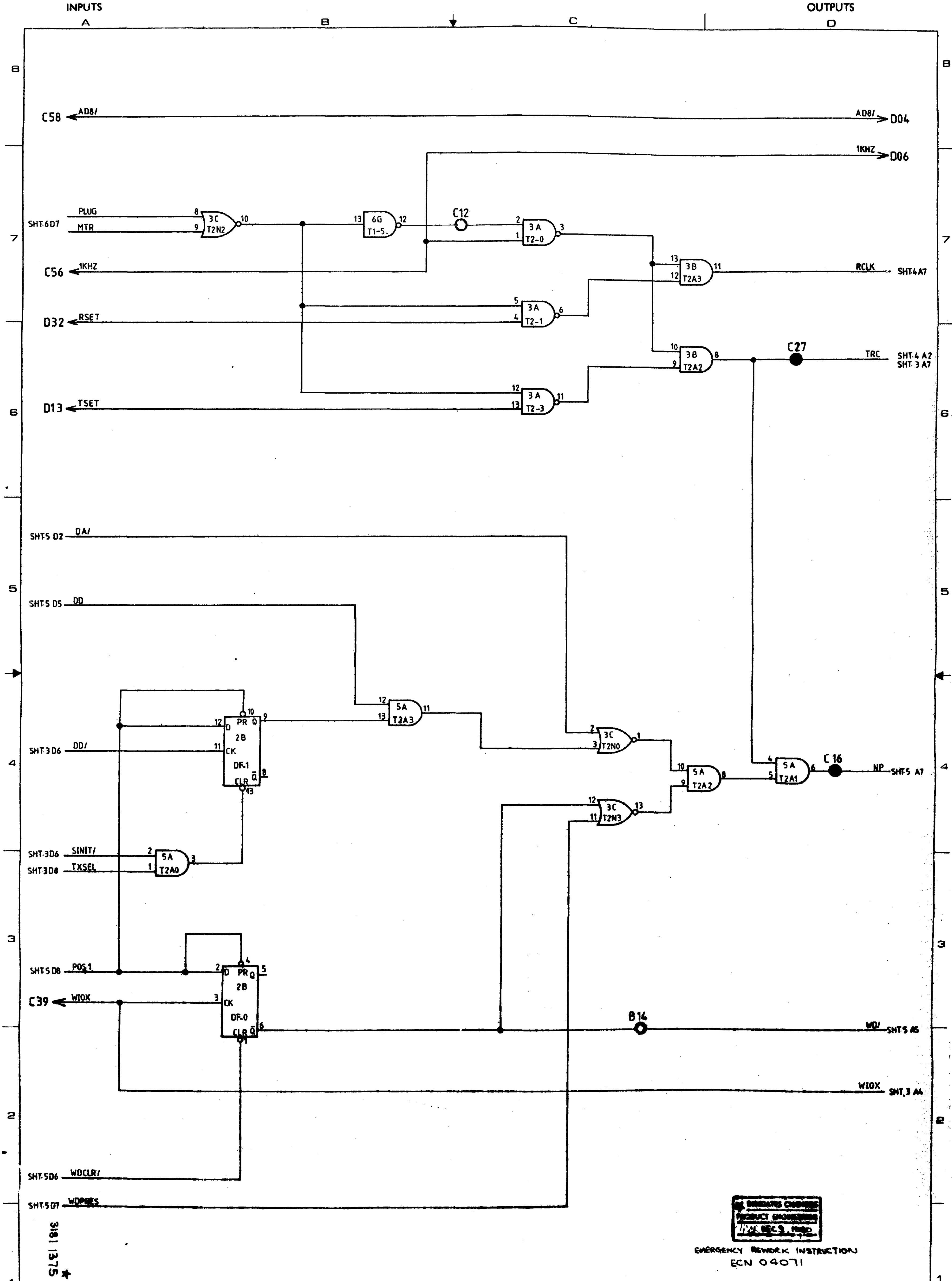
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

RELEASED OCT 5 '79

DSGN CONTROL	TITLE			
308	SPECIFICATION SDCY			
DSGN ENGR	DATE	DRAWN JMS	DATE MAR 31 '79	DRAWING No. 3181 1375 ~~3180 3284~~
APPROVED	DATE 3 Dec 79	CHECKED	DATE	
ENG. COMP	DATE	DRG. SIZE A1	CLASS CODE 2-7065	REV. A PAGE 5 of 11

PAGE 5 of 11 DRAWING No. ~~3180 3284~~


INPUTS
OUTPUTS
A
B
C
D
SHT.3 D2
DIN 5-1
DIN 6-1
DIN 7-1
C15
CONCONTA/
6A
DR40
C21
C14
WL
EPE
SHT.4 A7
SHT.3 D6
TX DATA
RC DATA
D05
6B
C35
C31
MTR
PLUG
SHT.7 A7
C30
C25
MTRLD/
6F
S 20
SHT.4 A2
RXDA
SHT.4 A6
DSRDY/
C 22
D08
DSR/
D34
CLRSND/
1G
T1-4
CTS
SHT.3 A7
C41
6C
CTS/
C19
DCD/
SHT.4 A2
T1-3
SHT.5 A8
3A
T2-2
RTS/
D11
C 37
TX CONT/
TXRQSTIN/
C40
SCTS
C38
D07
R CAR
6D
SSB
D56
OR/
D38
DM/
D36
C48
DSCONT/
6E
SS
C 29
SHT.4 A7
SS/
DTRDY/
D28
DSRATE
D39
RING/
C18
SHT.4 A3
C54
CONCONT B/
SINIT/
Ø2H
A54
Ø2H/
1D
T1-0
T1-1
B13
4F
3F
T2N2
T2N3
+5V
R2
1/4W
1KΩ
± 20%
B26
POS 2
SHT.5 A8
SHT.4 A5
5F
MC40
B37
2F
DF0
SECSTAT
C20
C07
CHANGE FLAG
D30
RING/
C10
INT/
Ø1HG/
SHT.3 D8
T2N1
SINIT
SHT.3 D7
T2N0
B23
TINT/
SHT.5 A1
0V
3181 1876
★ INDICATES CHANGES
PRODUCT ENGINEERING
DEC. 9, 1980
EMERGENCY REWORK INSTRUCTION
ECN 04071
PAGE 6 of 11
OCT 5 '79
Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD SCOTLAND U.K.
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT
SPECIFICATION SDC'Y
DRAWN JMS
MAR 31 '79
DRG SIZE A1
CLASS CODE 2-7045
REV A
PAGE 6 of 11
DRAWING No 3181 1876
3180 3224



SPECIFICATION. SDC'Y'

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND U.K.

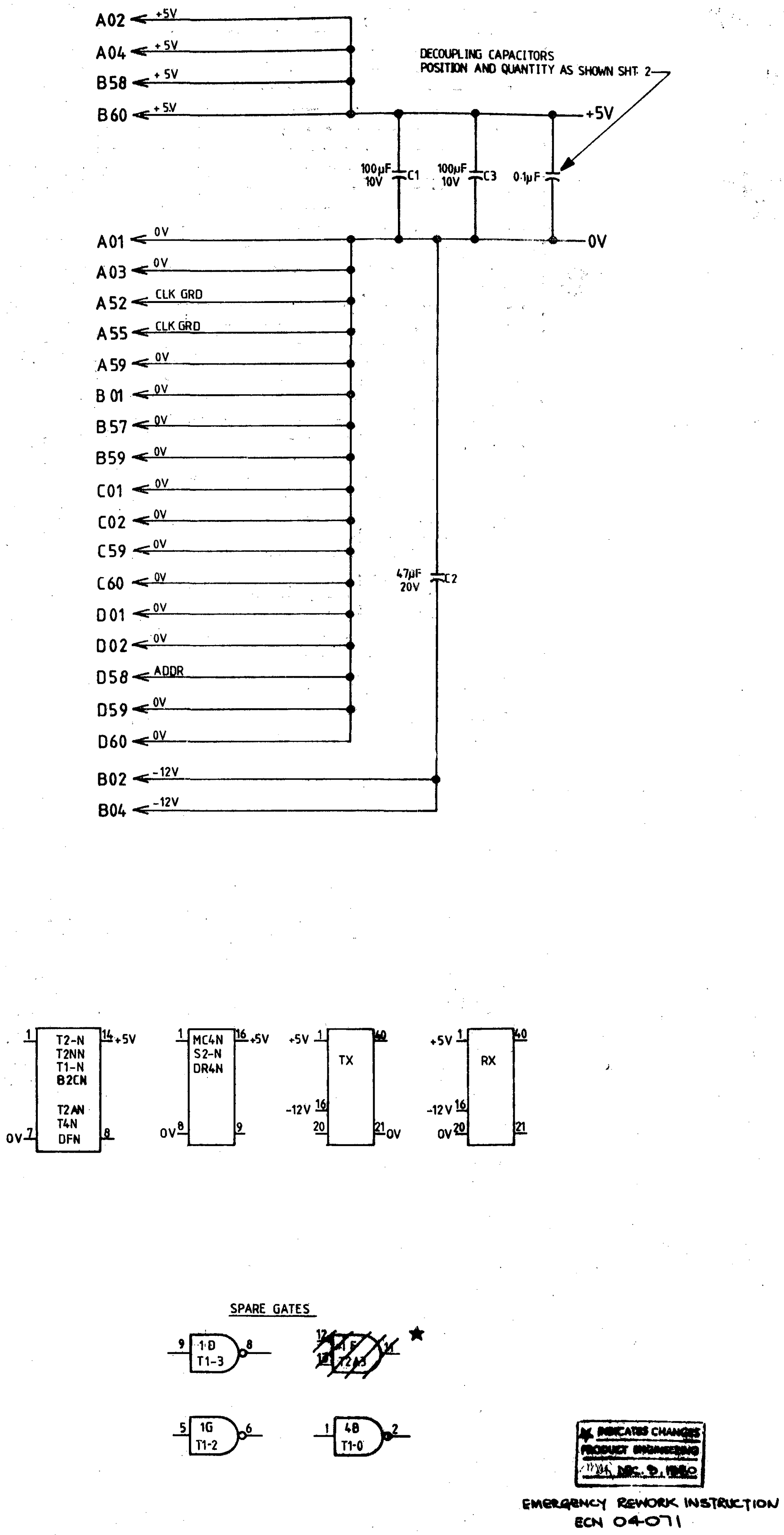
PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

DSGN CONTROL 308	TITLE SPECIFICATION. SDC'Y'			
DSGN ENGR	DATE	DRAWN JMS	DATE MAR 31,79	DRAWING No 3181 1375
APPROVED	DATE 3 Dec 79	CHECKED	DATE	
ENG COMP	DATE	DRG SIZE A1	CLASS CODE 2-7045	REV A	PAGE 7 OF 11

RELEASED OCT 5 '79

INPUTS

OUTPUTS



★ INDICATES CHANGES
PRODUCT ENGINEERING
DEC. 9, 1980

EMERGENCY REWORK INSTRUCTION
ECN 04-071

3181 1375 ★

PAGE 8 of 11 — DRAWING No. ~~3180-3224~~

RELEASED OCT 5 '79

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD SCOTLAND U.K.

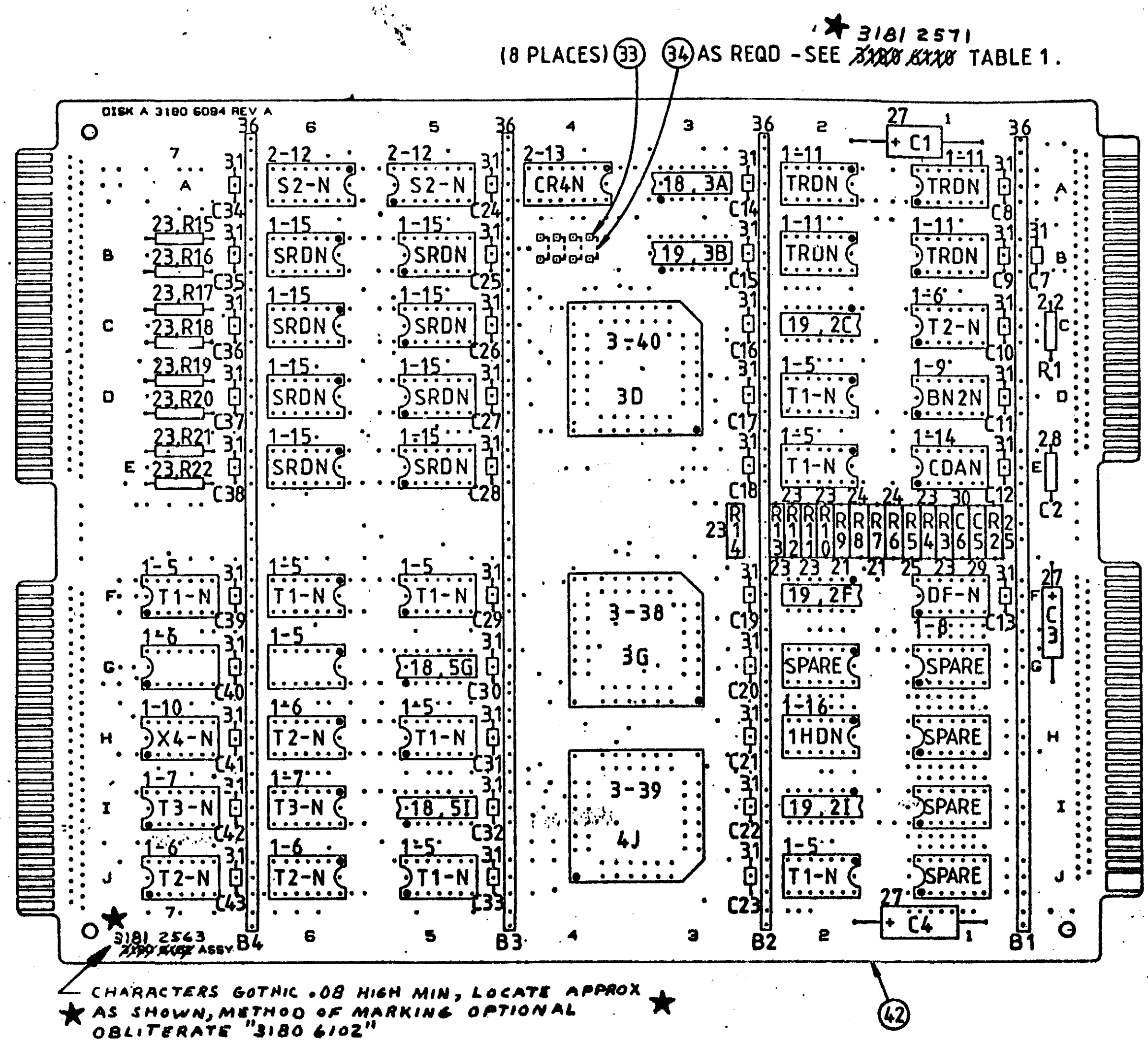
TITLE: SPECIFICATION SDCY

DRAWN: JMS — DATE: MAR 31, 79

DRG SIZE: A1 — CLASS CODE: 2-7045

DRAWING No. 3181 1375 (~~3180-3224~~)

REV A — PAGE 8 of 11



NOTES:-

1. FOR SCHEMATIC SEE ~~3180 6102~~ 3181 2571 ★
2. MAXIMUM HEIGHT OF ANY COMPONENT .45 FROM BOARD SURFACE.
3. UNLESS OTHERWISE SPECIFIED:-

3.1. SOLDER ALL TERMINATIONS. SEE SPECIFICATION 1446 3244.

3.2. LEAD PROTRUSION .06 MAX.

3.3. PIN 'A' OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FARTHEST TO THE RIGHT.

ITEM	CODE.	DESCRIPTION	SCH. SHT. №	PART №.	REQD
1	—	14 PIN SOCKET	—	2853 5706	33
2	—	16 PIN SOCKET	—	2853 5714	3
3	—	51 PIN SOCKET	—	1532 8123	3
4					
5	T1-N	I.C.	1,2,3,4,6,7	1447 3532	9
6	T2-N	"	1,2,3,4,5,6	1447 3516	5
7	T3-N	"	2,3	1447 3540	2
8	DF-N	"	1,7	1447 3607	1
9	BN2N	"	1,4	1848 4576	1
10	X4-N	"	7	1447 3698	1
11	TRDN	"	6	2571 0104	4
12	S2-N	"	7	1447 3797	2
13	CR4N	"	7	1447 3771	1
14	CDAN	"	4	1846 5229	1
15	SRDN	"	5	2571 5418	8
16	IHDN	"	1,3	1674 4963	1
17					
18	3A,5G,5I	1K RES MOD	1,2,3,4,5,6,7	2571 1912	3
19	2C,F,I,3B	6.2K " "	1,2,4,6	2571 0252	4
20					
21	R7,R9	RESISTOR 82	4	1268 1052	2
22	R1	" 100	6	1268 1078	1
23	R3,R4 R10 THRU R22	" 1K	4,6,7	1268 1318	15
24	R6,R8	" 2.2K	4	1268 1391	2
25	R2,R5	" 3.3K	4	1268 1433	2
26					
27	C1,C3,C4	CAPACITOR 47uF 20V	1	1267 9262	3
28	C2	" 0.1uF 50V	1	2300 5820	1
29	C5	" 680pF "	4	2300 5556	1
30	C6	" 1000pF "	4	2300 5572	1

ITEM	CODE.	DESCRIPTION	SCH. SHT. №	PART №.	REQD
31	C7,C8 THRU C43	CAPACITOR 0.12uF 50V	1,6	2848 3956	37
32					
33	—	MINISERT SOCKET	—	1239 1306	8
34	L1,L2 L3,L4	SPRING LINK	1,4	1536 3674	AR
35					
36	B1-B4	BUSBAR (10 CHIP)	—	2849 5786	4
37					
38	—	L.S.I.	2	2574 3162	1
39	—	"	3	2574 3170	1
40	—	"	4	2574 3188	1
41					
42	—	P.W.B.	—	3180 6094	1

EDA 63786
★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP —
DATE 3-27-81
STAMP PWB ASSY WITH "EDA 63786"
NEW RELEASE

RELEASED FEB 15, 80
REVISION ECN 03309 3180 6102 REPLACES 3180 6011 AND 3180 6029

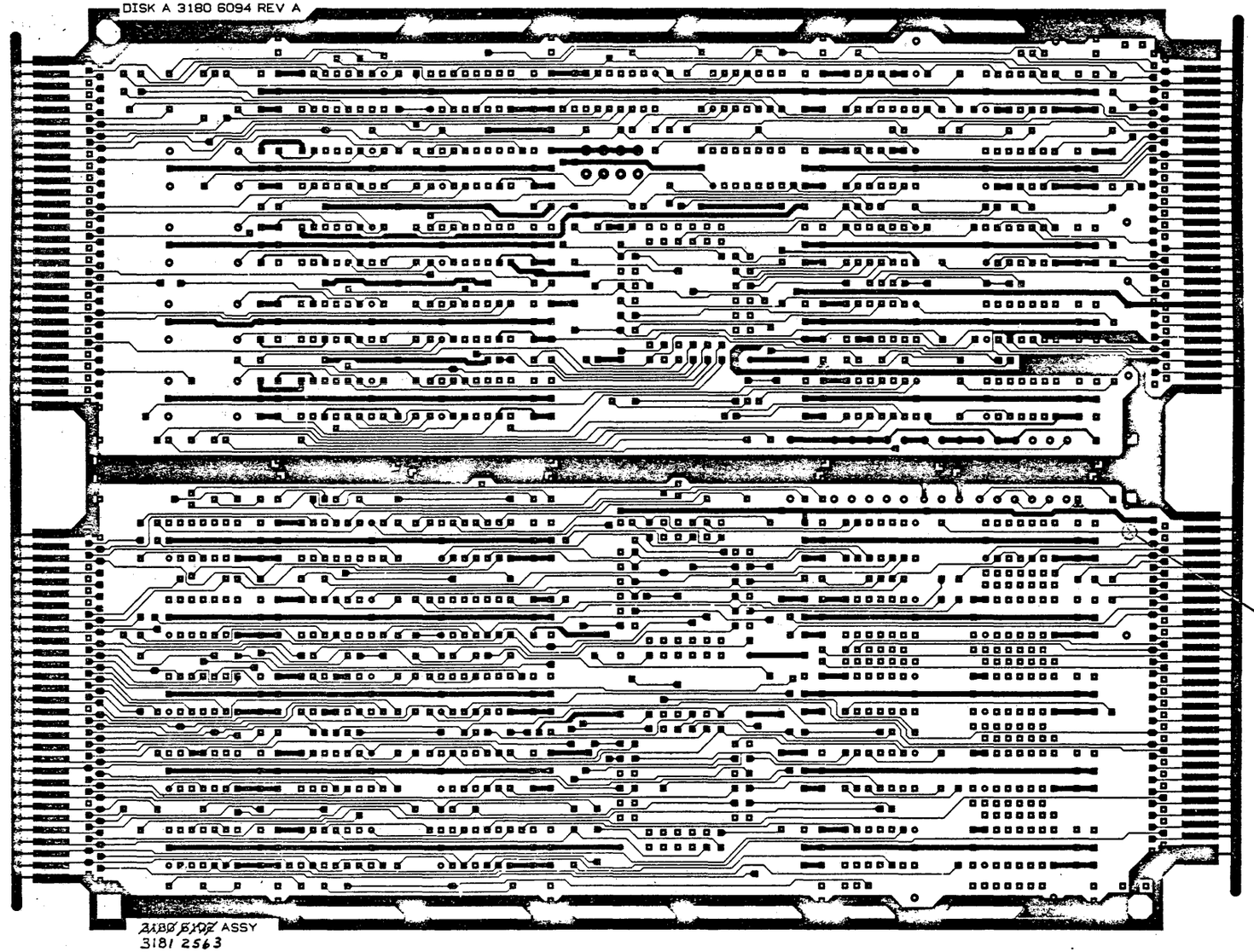
Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN CONTROL 308	TITLE P.W.B. ASSEMBLY , DISK A			
DSGN. ENGR. C.McK.	DATE FEB.15, 80	DRAWN C.H.	DATE FEB.15, 80	DRAWING No. ~~3180 6102~~ 3181 2563 ★
APPROVED	DATE	CHECKED	DATE 3/5/80	
ENG. COMP.	DATE	DRG SIZE A2	CLASS CODE 2-7045	REV. A — PAGE 1 OF 2 ★

3181 2563 REV A
PAGE 2 OF 2
RELEASED EDA 63786

★

COMPONENT SIDE



3180 EXDE ASSY
3181 2563

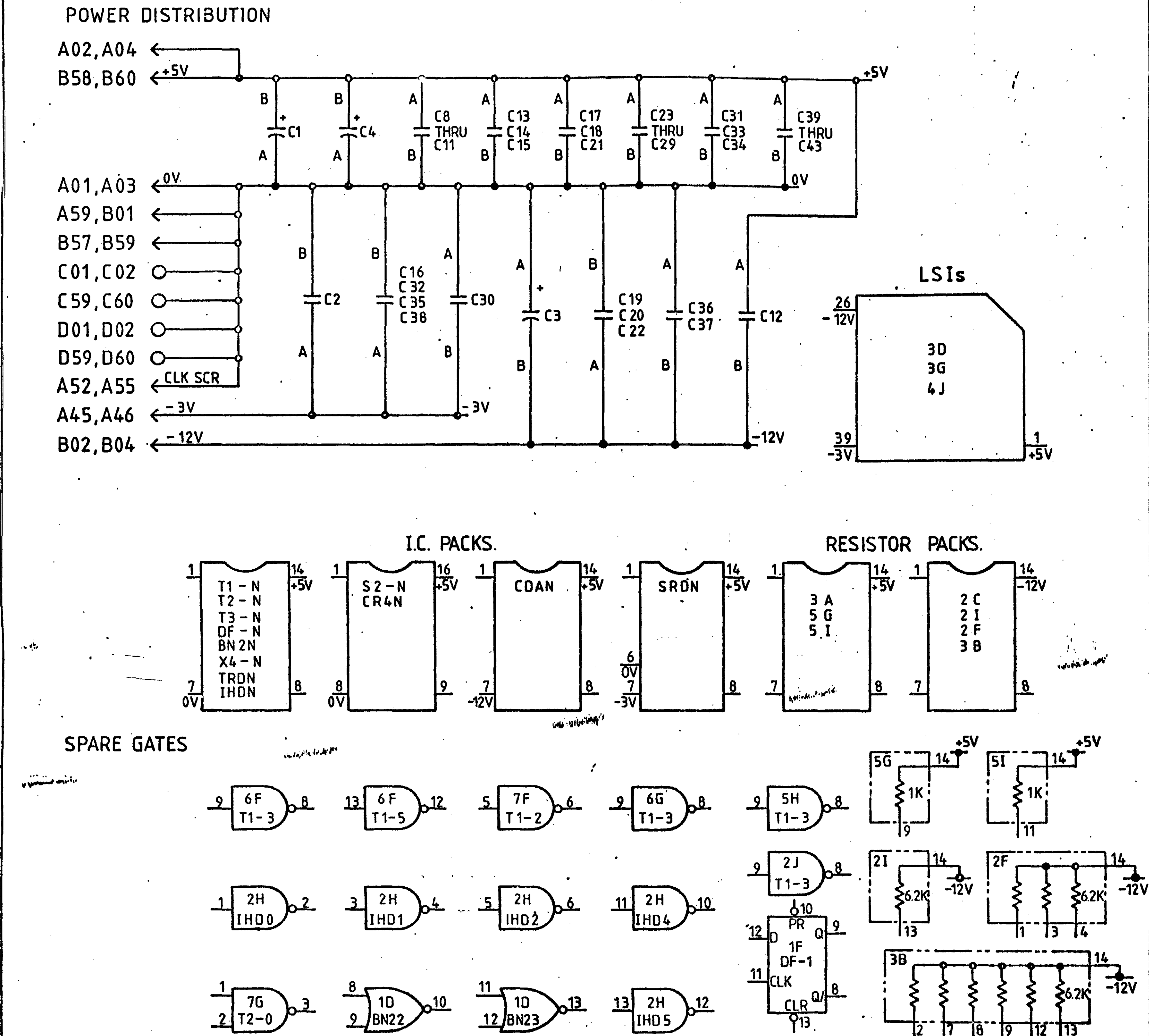
★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP —
DATE 3-27-81

★ BREAK CIRCUITRY AS SHOWN (1 PLACE)

★ 3181 2563 REV A

PAGE 2 OF 2

ORIGINAL



NOTES:~

1. FOR ASSEMBLY SEE ~~XXXX XXXX~~ 3181 2563★
2a. RESISTOR PACKAGE VALUES ARE IN OHMS ± 2%, 0.125W.
2b. DISCRETE RESISTOR VALUES ARE IN OHMS ± 5%, 0.25 W.
3. IDENTITY LINKS INSERTED AS SHOWN IN TABLE 1.
4. CONTROLLER 'A' CONNECTED TO SPINDLE WITH 2 DISKS. CONTROLLER 'B' CONNECTED TO SPINDLE WITH 1 DISK.

TABLE 1.

DISK.	CONT. REQD.		L1	L2	L3	L4
9480-11	1		OUT	IN	OUT	OUT
9480-12	1		OUT	IN	OUT	IN
9480-21	1		IN	IN	OUT	OUT
9480-22	1		IN	IN	OUT	IN
9481-11	1		IN	OUT	OUT	OUT
9481-12	1		IN	OUT	OUT	IN
9489-1	1		OUT	OUT	OUT	OUT
9489-2	1		OUT	OUT	OUT	IN
9493-9	1		IN	IN	IN	OUT
9493-18	1		IN	IN	IN	IN
9493-28	2	CONT. A	IN	IN	IN	IN
		CONT. B	IN	IN	IN	OUT
		SEE NOTE 4				
9493-37	2	BOTH CONTROLLERS	IN	IN	IN	IN

EDA 63786
★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316 V'D J.H.
GROUP —
DATE 3-27-81
NEW RELEASE

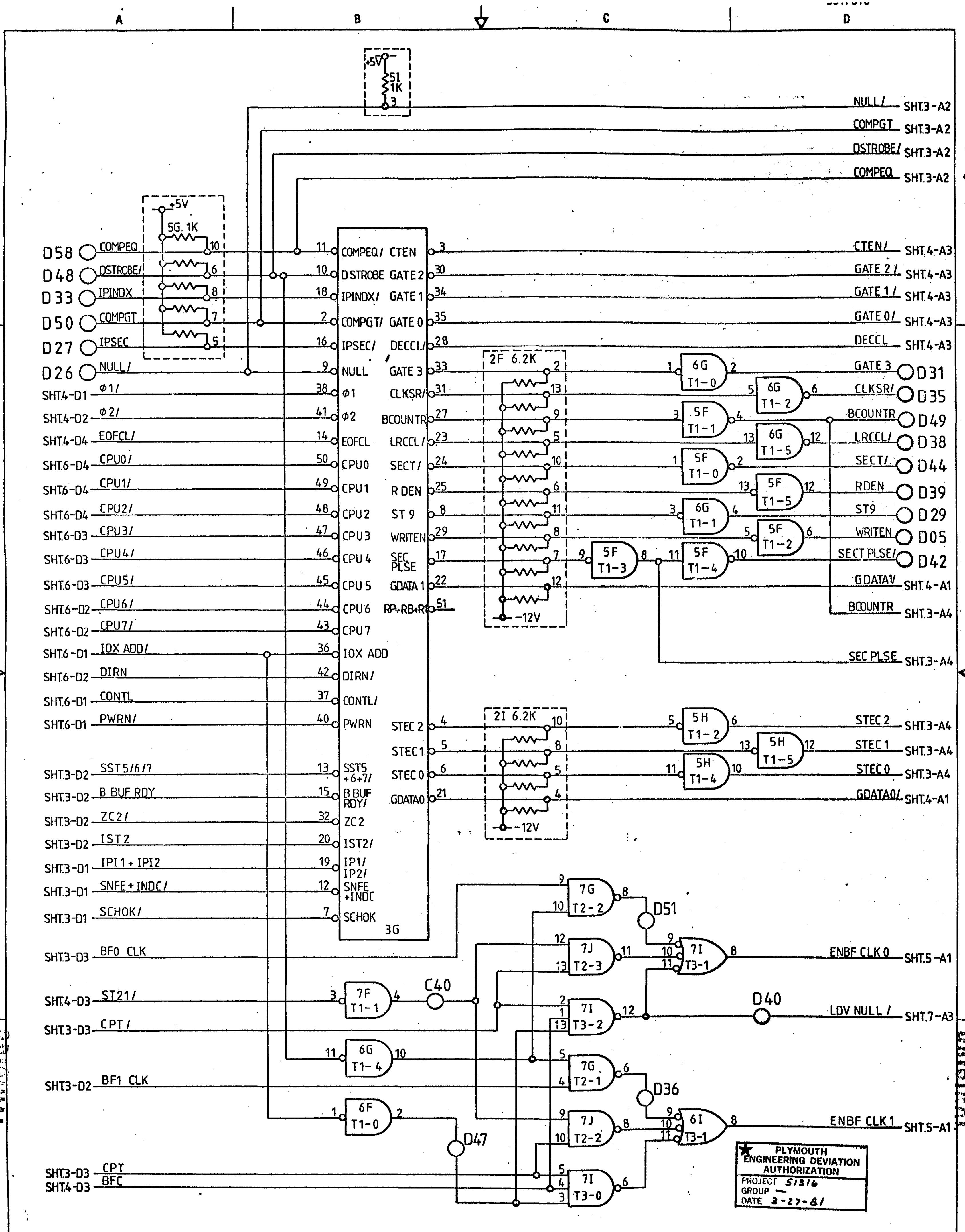
REVISION: 3180 6039 ECN 03769 3180 6110 RELEASE MFG FEB. 15, 80 RELEASED

Burroughs
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL 308	TITLE: SCHEMATIC, DISK A		
DSGN./ENGR. C.McK.	DATE FEB. 15, 80	DRAWN H.N.	DATE FEB. 15, 80
APPROVED	DATE	CHECKED Craig H.	DATE 2/5/80
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520

DRAWING No. ~~3180 6110~~ 3181 2571★ REV. A

1248LT/1561



★ PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP —
DATE 3-27-81

RELEASED FEB. 15, 80 / REVISION ECN 03269	Burroughs — SMALL SYSTEMS DIVISION, BURROUGHS MACHINES LIMITED, CUMBERNAULD, SCOTLAND, U.K.	DSGN. CONTROL 308	TITLE SCHEMATIC, DISK A		
		DSGN./ENGR. C.McK.	DATE FEB. 15, 80	DRAWN H.N.	DATE FEB. 15, 80
		APPROVED	DATE	CHECKED Craig McKye	DATE 2/5/80
	PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.	ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520

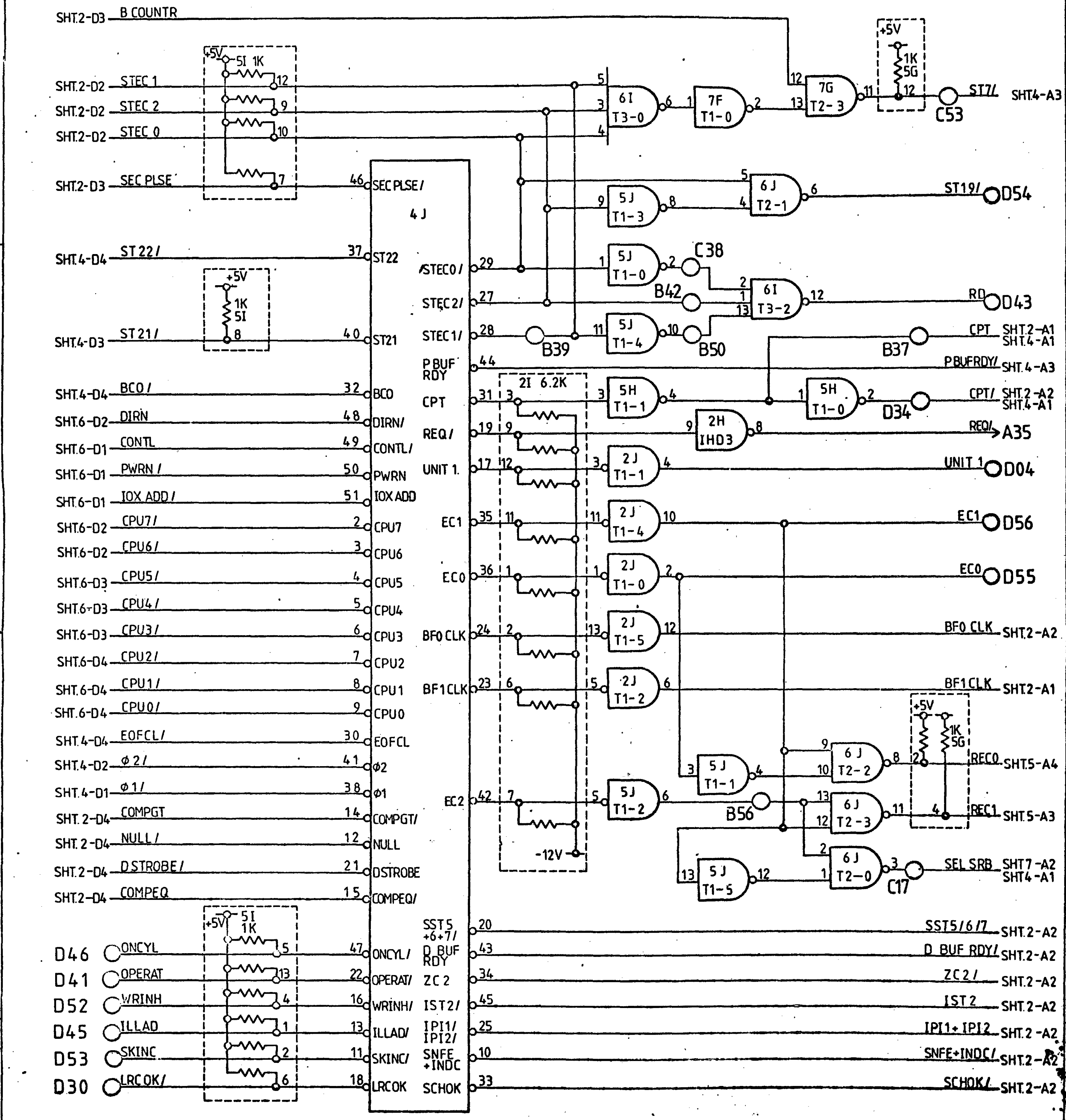
DRAWING No. ~~3180 6110~~ 3181 2571 ★

REV. A | PAGE 2 OF 7

1246LT/1661

A B C D

A B C D



4 3 2 1

PLYMOUTH ENGINEERING DEVIATION AUTHORIZATION
PROJECT 51316
GROUP —
DATE 3-27-81

ORIGINAL

REVISION	RELEASED		
ECN 03209	FEB 15 80		

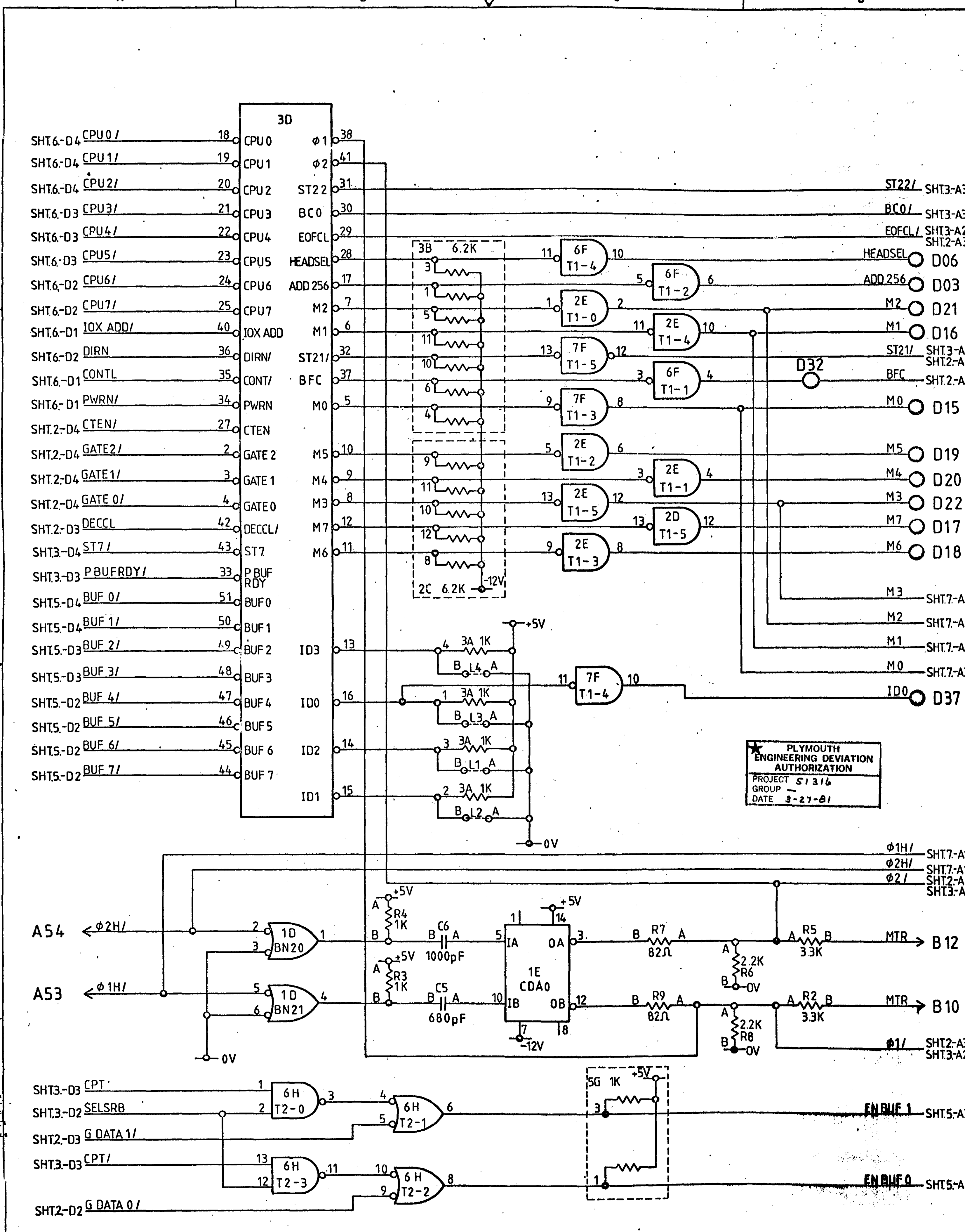
Burroughs

SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL 308	TITLE SCHEMATIC , DISK A			
DSGN./ENGR. C.McK.	DATE FEB.15,80	DRAWN H.N.	DATE FEB.15,80	DRAWING No. 3X80 6XX0 3181 2571★
APPROVED	DATE	CHECKED	DATE 3/5/80	
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A PAGE 3 OF 7

2246LT/1961

A B C D

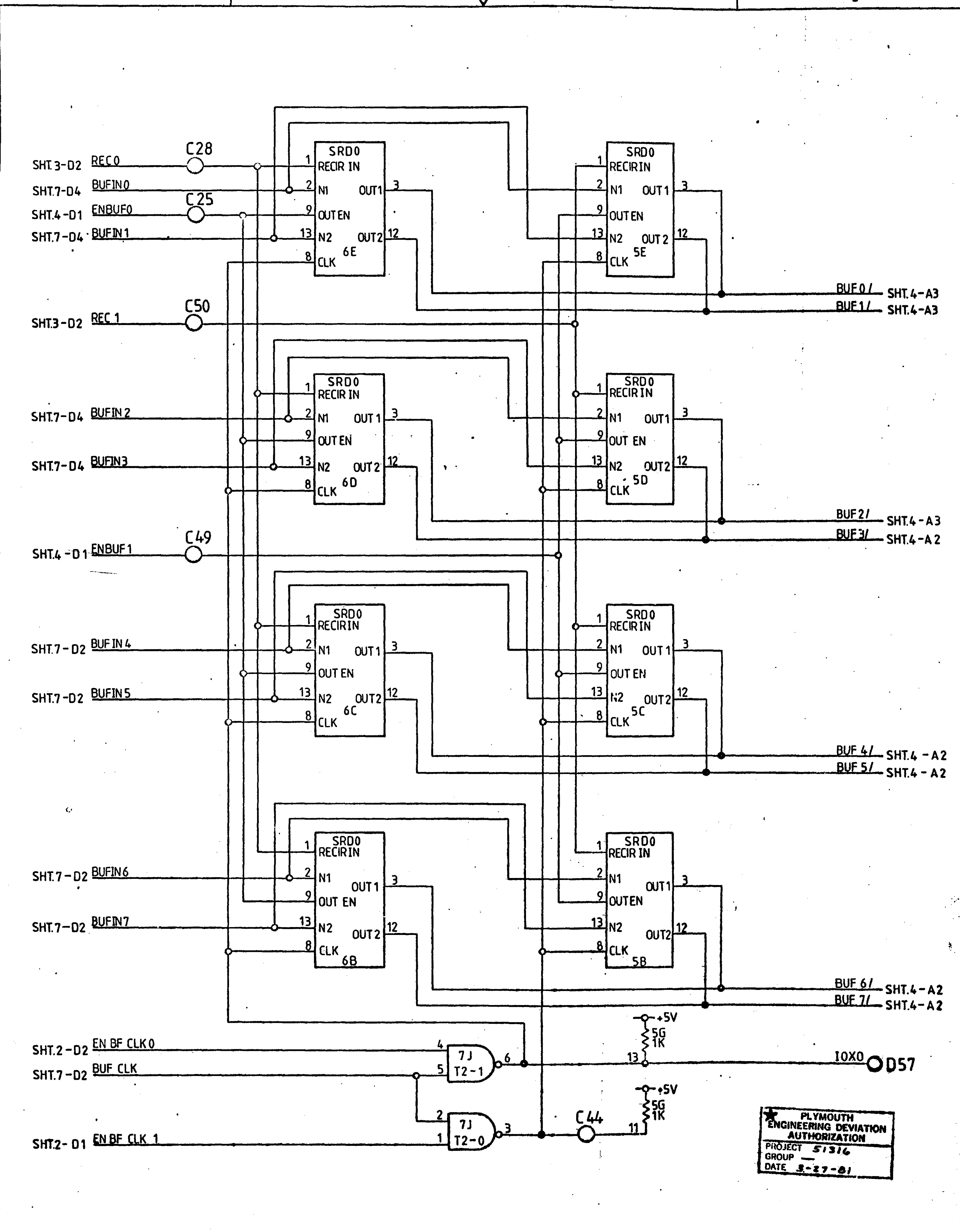


Burroughs

SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

RELEASED	FEB 15 80
REVISION	ECN 03269
DSGN. CONTROL	308
TITLE	SCHEMATIC, DISK A
DSGN./ENGR.	C.McK.
DATE	FEB. 15, 80
DRAWN	H.N.
DATE	FEB. 15, 80
APPROVED	
CHECKED	Gary Mc…
DATE	8/3/80
ENG. COMP.	
DRG. SIZE	A2.
CLASS CODE	2-9520
DRAWING No.	~~2180 6110~~ 3181 2571 ★
REV.	A
PAGE	4 OF 7

1246LT/1961

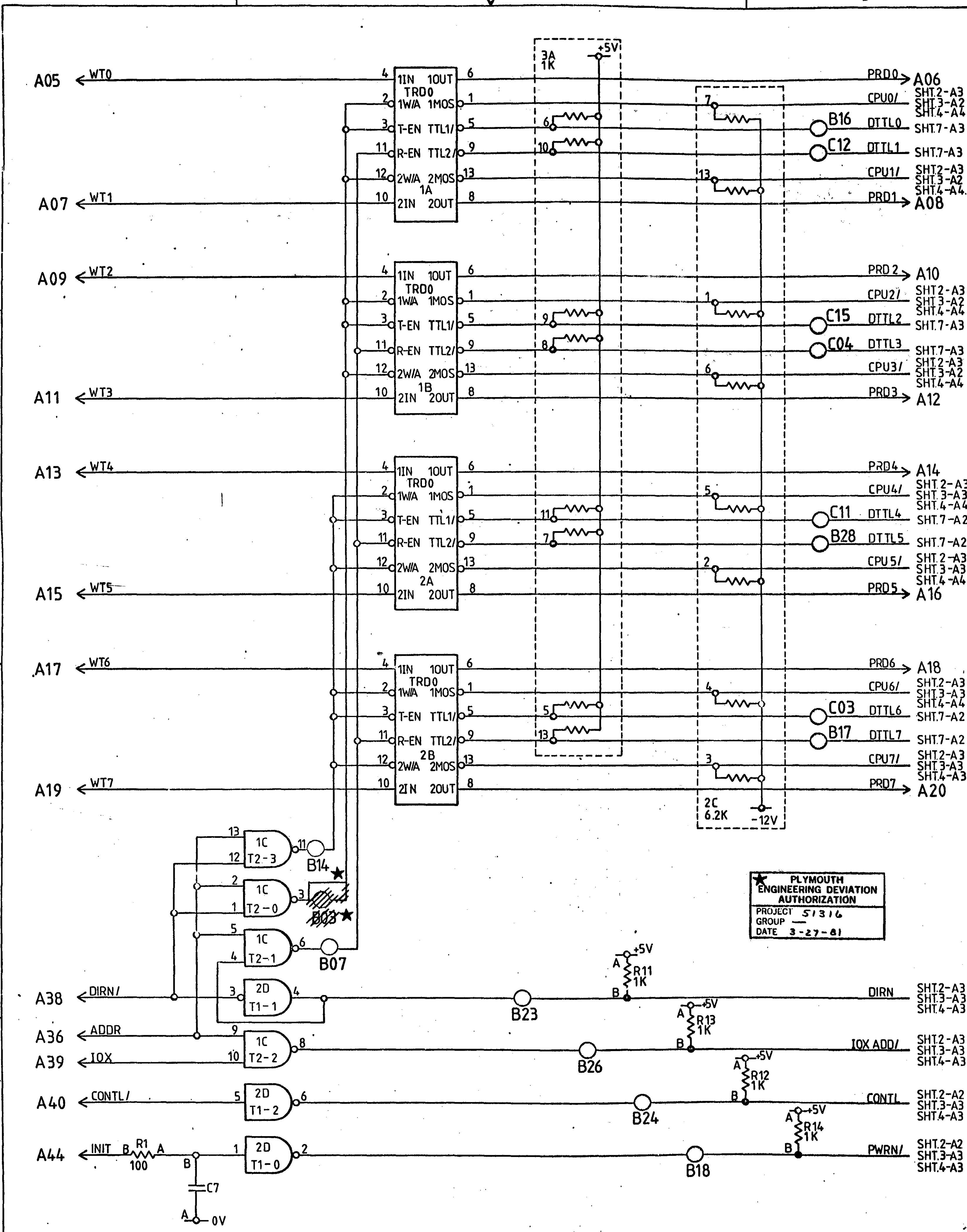


RELEASED FEB 15, 80
REVISION ECN 02269

Burroughs

SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL 308	TITLE SCHEMATIC, DISK A				
DSGN./ENGR. C. McK.	DATE FEB. 15, 80	DRAWN H.N.	DATE FEB. 15, 80.	DRAWING No. ~~3180 6110~~ 3181 2571 ★	
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A	PAGE 5 OF 7

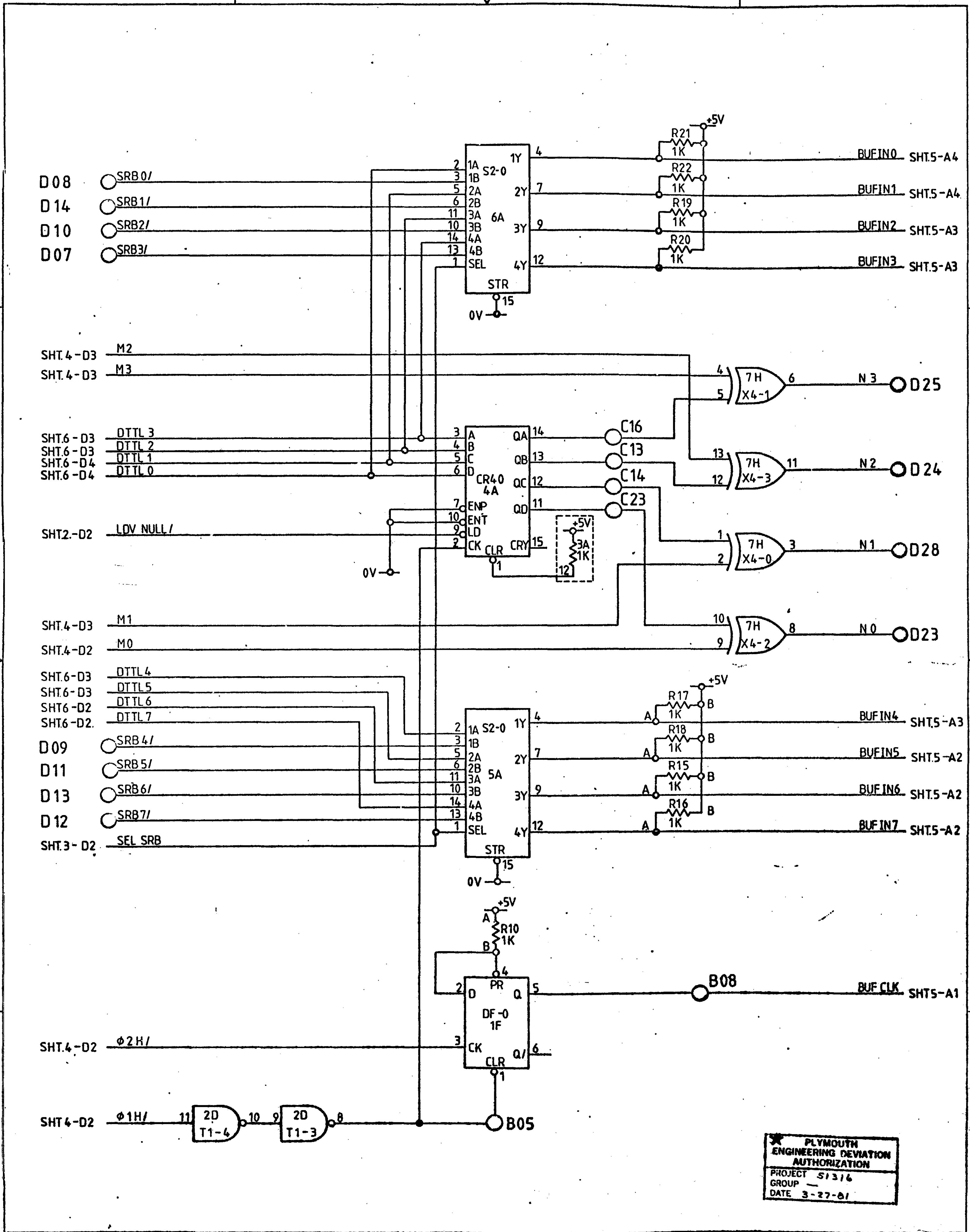


REVISION ECN 05309	RELEASED FEB. 15. 80	MFG.

Burroughs

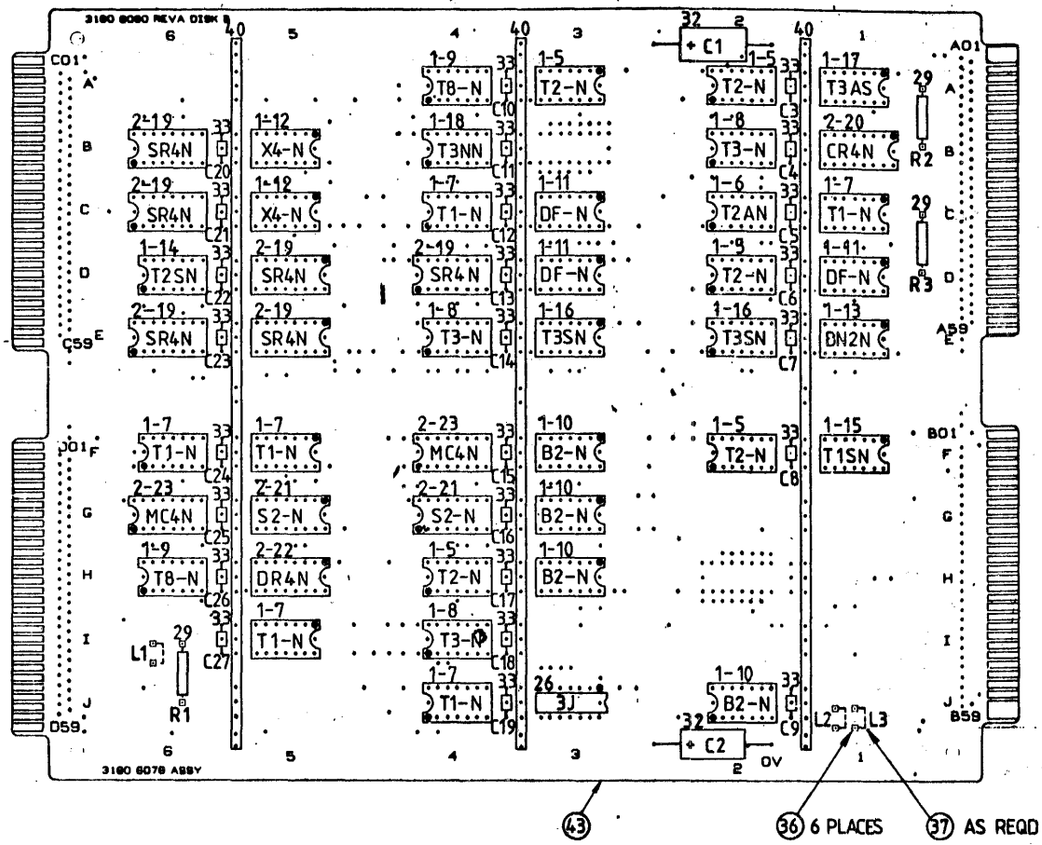
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL 308	TITLE SCHEMATIC, DISK A			
DSGN./ENGR. C.McK.	DATE FEB. 15, 80	DRAWN H.N.	DATE FEB. 15, 80	DRAWING No. ~~3180 6XXX~~ 3181 2571 ★
APPROVED	DATE	CHECKED	DATE 8/5/80	
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A — PAGE 6 OF 7



REVISION: ECN 03209	RELEASED: FEB 15 80	**Burroughs** SMALL SYSTEMS DIVISION, BURROUGHS MACHINES LIMITED, CUMBERNAULD, SCOTLAND, U.K.	DSGN. CONTROL 308	TITLE: SCHEMATIC, DISK A	
			DSGN./ENGR. C.McK.	DATE FEB. 15, 80	DRAWN H.N — DATE FEB. 15, 80 — DRAWING No. 3181 2571 ★
		PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.	APPROVED	DATE	CHECKED Craig McL — DATE 3/5/80
			ENG. COMP.	DATE	DRG. SIZE A2. — CLASS CODE 2-9520 — REV. A — PAGE 7 OF 7

1246LT/1961



(43) (36) 6 PLACES (37) AS REQD – SEE 3180 6086 TABLE 1.

NOTES:–

1. FOR SCHEMATIC SEE 3181 1904
2. MAXIMUM HEIGHT OF ANY COMPONENT .45 FROM BOARD SURFACE.
3. UNLESS OTHERWISE SPECIFIED:~
   - 3.1. SOLDER ALL TERMINATIONS SEE SPECIFICATION 1446 3244.
   - 3.2. LEAD PROTRUSION .06 MAX.
   - 3.3. PIN 'A' OF A TWO LEAD COMPONENT IS ALWAYS LOWEST OR FARTHEST TO THE RIGHT.

ITEM	CODE	DESCRIPTION	SCH SHT Nº	PART Nº	REQD
1	—	14 PIN D.I.L SOCKET	—	2853 5706	33
2	—	16 PIN D.I.L SOCKET	—	2853 5714	12
3					
4					
5	T2-N	I.C.	1,5,6,7	1447 3516	5
6	T2AN	"	5	1447 3524	1
7	T1-N	"	1,2,5,6,7	1447 3532	6
8	T3-N	"	1,2,5,6,7	1447 3540	3
9	T8-N	"	2,4	1447 3573	2
10	B2-N	"	3,7	1447 9596	4
11	DF-N	"	5,7	1447 3607	3
12	X4-N	"	2	1447 3698	2
13	BN2N	"	2,5	1848 4576	1
14	T2SN	"	7	2600 1487	1
15	T1SN	"	2,3,5,7	2600 1495	1
16	T3SN	"	7	2600 1503	2
17	T3AS	"	1,6	2600 1511	1
18	T3NN	"	2	2600 4929	1
19	SR4N	"	2,4	1447 3755	6
20	CR4N	"	6	1447 3771	1
21	S2-N	"	3	1447 3797	2
22	DR4N	"	6	1449 1278	1
23	MC4N	"	4	1449 2052	2
24					
25					
26	3J	RES. MOD.	1,3,6,7	1847 8230	1
27					
28					
29	R1,R2,R3	RESISTOR 1K	5,6	1268 1318	3
30					
31					
32	C1, C2	CAPACITOR 47uF 20V	1	1267 9262	2
33	C3THRU C27	" 0.12uF 50V	1	2848 3956	25
34					
35					
36	—	MINISERT SOCKET	—	1239 1306	6
37	L1,L2,L3	SPRING LINK	1,6,7	1536 3674	AS REQD
38					
39					
40	—	BUSBAR (10 CHIP)	—	2849 5786	3
41					
42					
43	—	P.W.B.	—	3180 6060	1

WAYNE 090

REVISION ~ ECN 04190 3181 1896 REPLACES 3180 6078

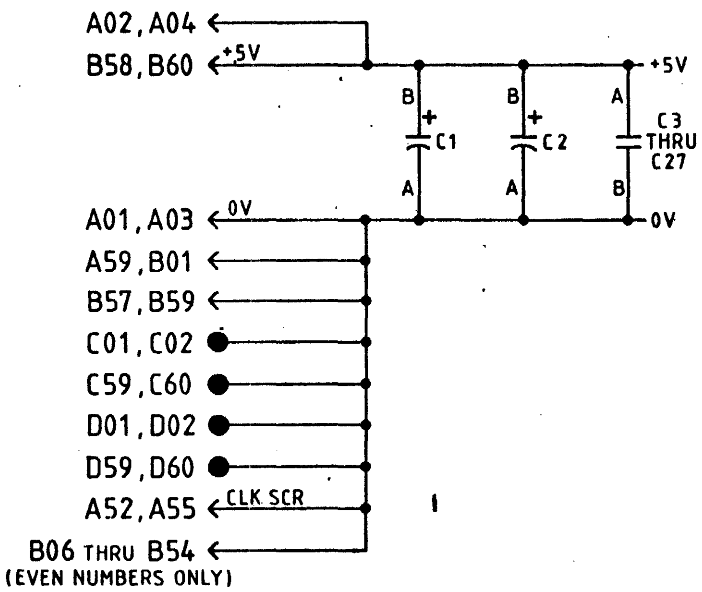
RELEASED FEB. 24 81

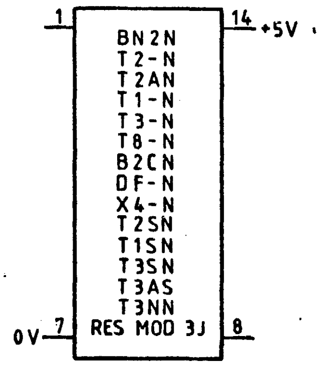
Burroughs

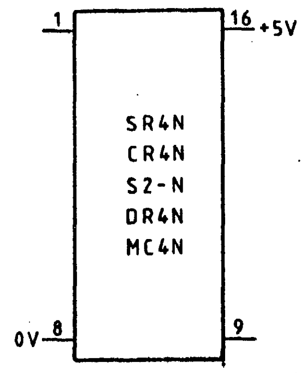
SMALL SYSTEMS DIVISION
BURROUGHS MACHINES LIMITED
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL 308	TITLE P.W.B. ASSEMBLY, DISK B				
DSGN/ENGR. C.McK.	DATE FEB. 23, 81	DRAWN C.B.	DATE FEB. 23, 81	DRAWING No 3181 1896	
APPROVED	DATE	CHECKED Craig McK	DATE		
ENG. COMP.	DATE	DRG. SIZE A2	CLASS CODE 2-7045	REV. A	PAGE 1 OF 1

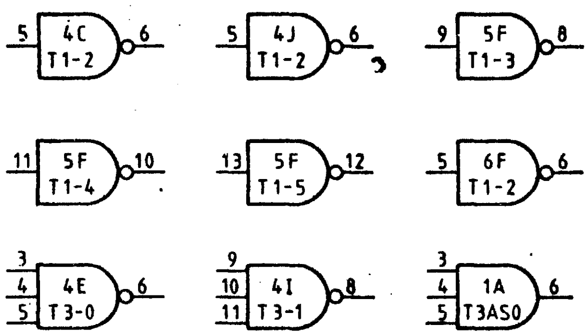
POWER DISTRIBUTION

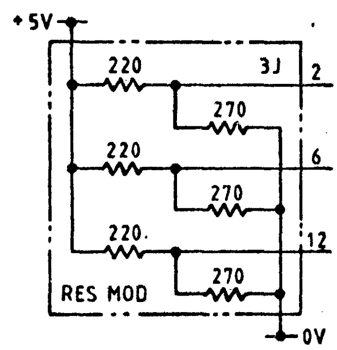






SPARE GATES





NOTES

1. FOR ASSEMBLY SEE 3181 1896
2a. RESISTOR MODULE VALUES ARE IN OHMS ± 2%, 0.125W.
2b. DISCRETE RESISTOR VALUES ARE IN OHMS ±5%, 0.25W.
3. LINKS L1, L2 & L3 TO BE INSERTED AS SHOWN IN TABLE 1.

TABLE 1

DISK	LINKS		
	L3	L2	L1
9489	OUT	IN	IN
9480			
9481			
9483	IN	OUT	OUT

REVISION	RELEASED				
ECN 04190 3181 1904 REPLACES 3180 6086	FEB. 24 81				

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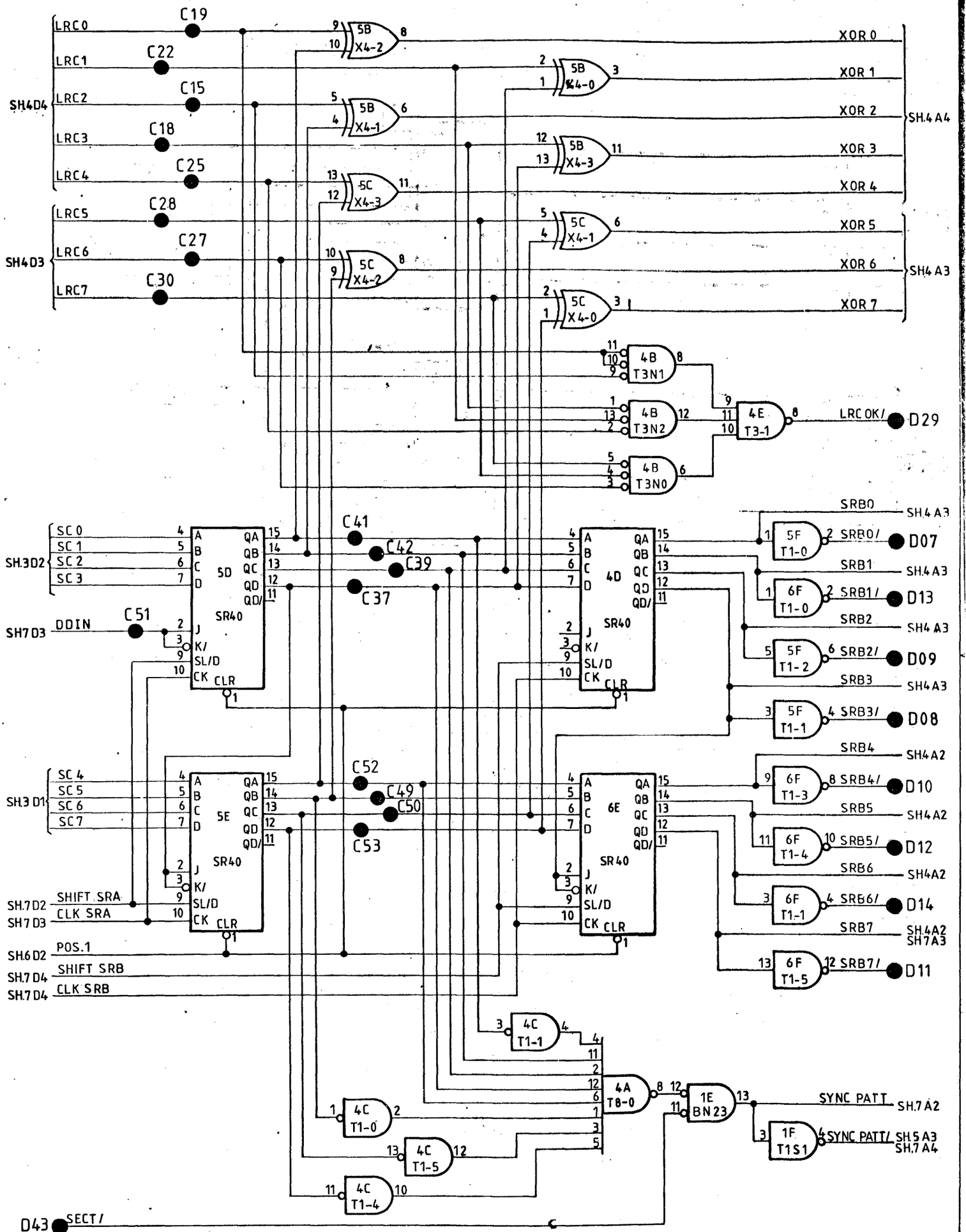
CUMBERNAULD, SCOTLAND, U.K.

DSGN. CONTROL	TITLE			
308	SCHEMATIC, DISK B			
DSGN./ENGR. C.McK.	DATE FEB. 23, 81	DRAWN C.B.	DATE FEB. 23, 81	DRAWING No. 3181 1904
APPROVED	DATE	CHECKED	DATE	
ENG. COMP.	DATE	DRG. SIZE A2	CLASS CODE 2-9520	REV. A — PAGE 1 OF 7



SEE SHEET 1

REVISION	RELEASED
ECN 04190	FEB. 24, 81

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APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A	PAGE 2. OF 7

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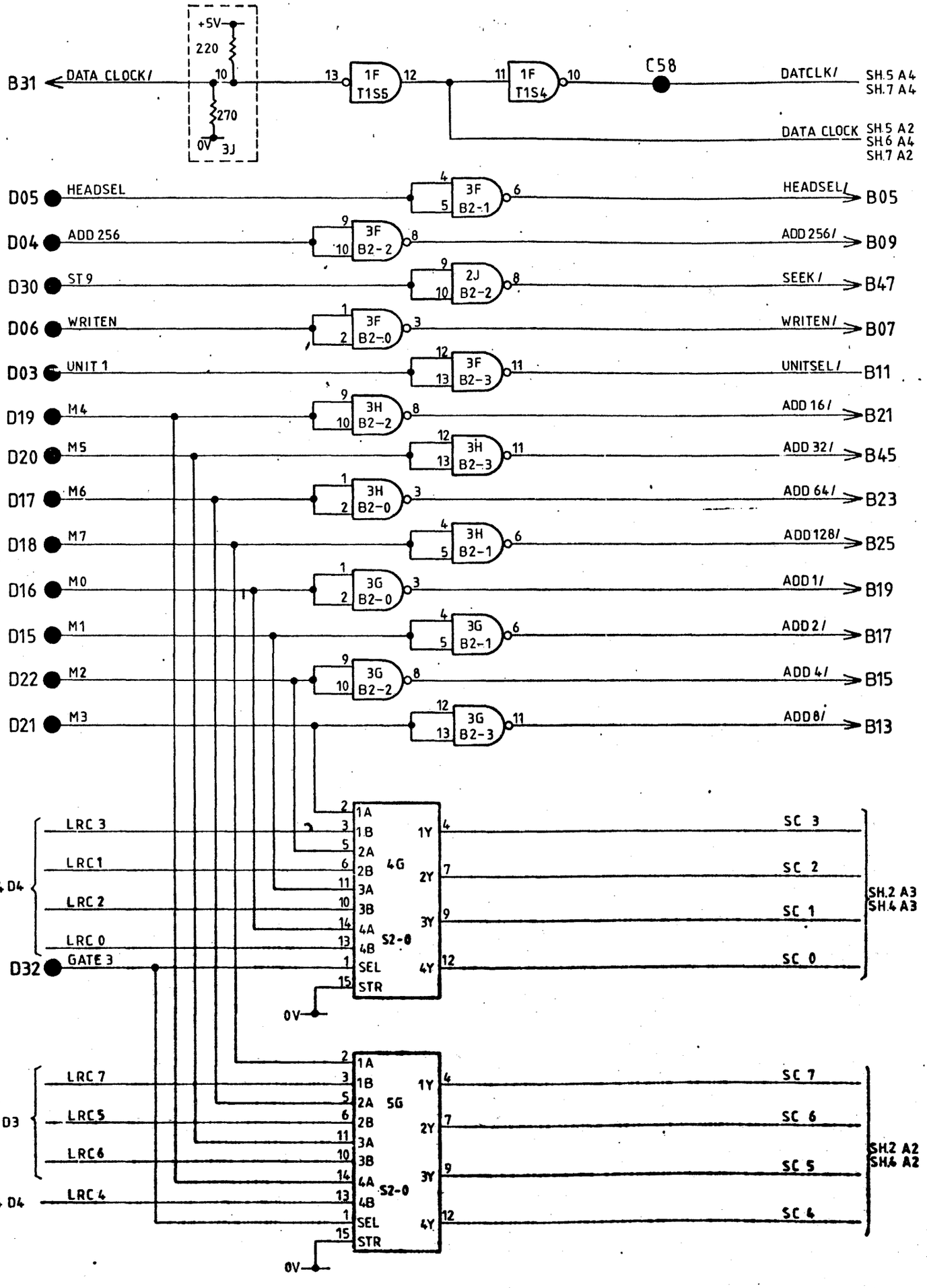

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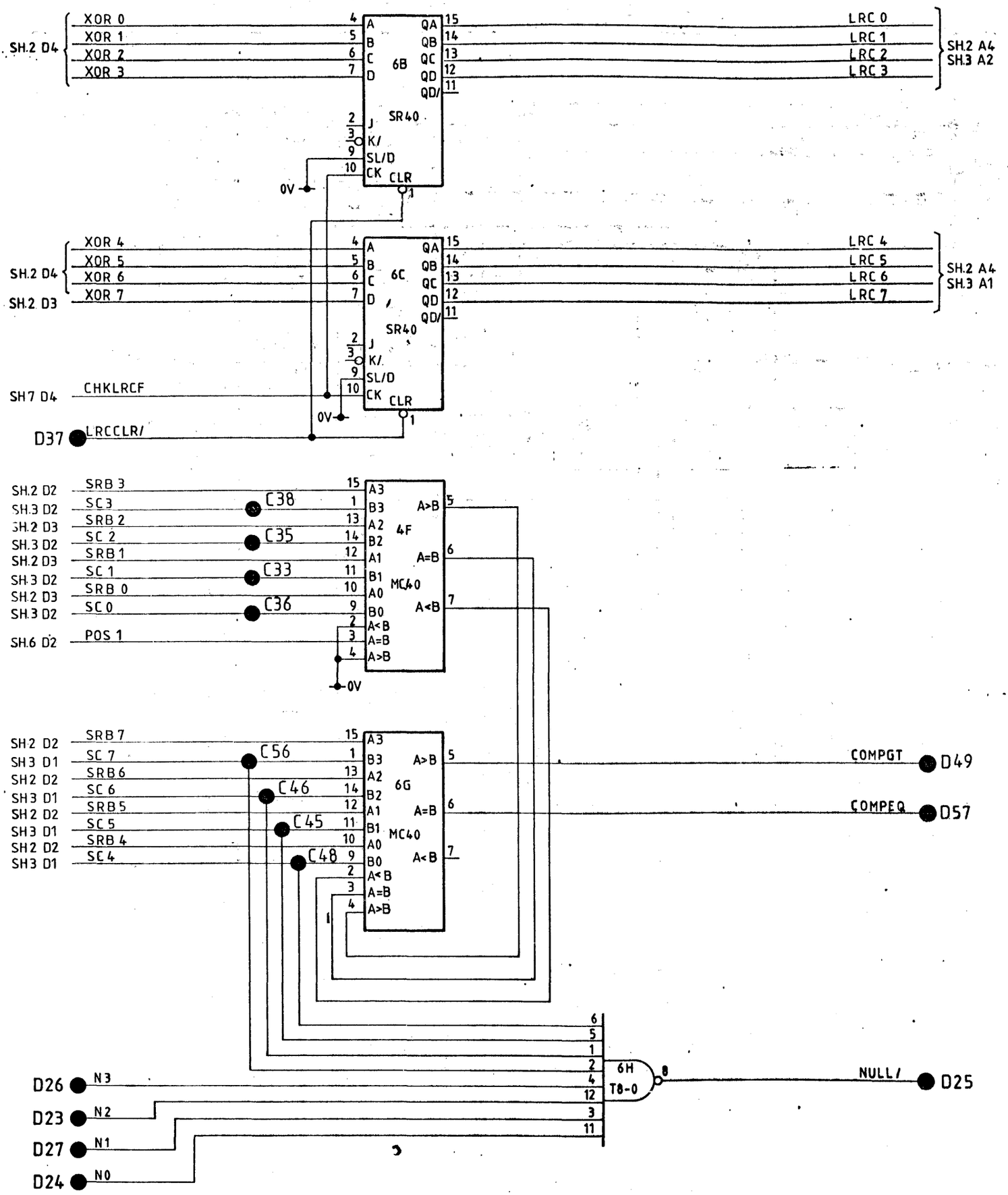
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A	PAGE 3 of 7

ORIGINAL



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DSGN./ENGR. C.McK.	DATE FEB. 23,81	DRAWN C.B	DATE FEB. 23 81	DRAWING No. 3181 1904	
APPROVED	DATE	CHECKED	DATE		
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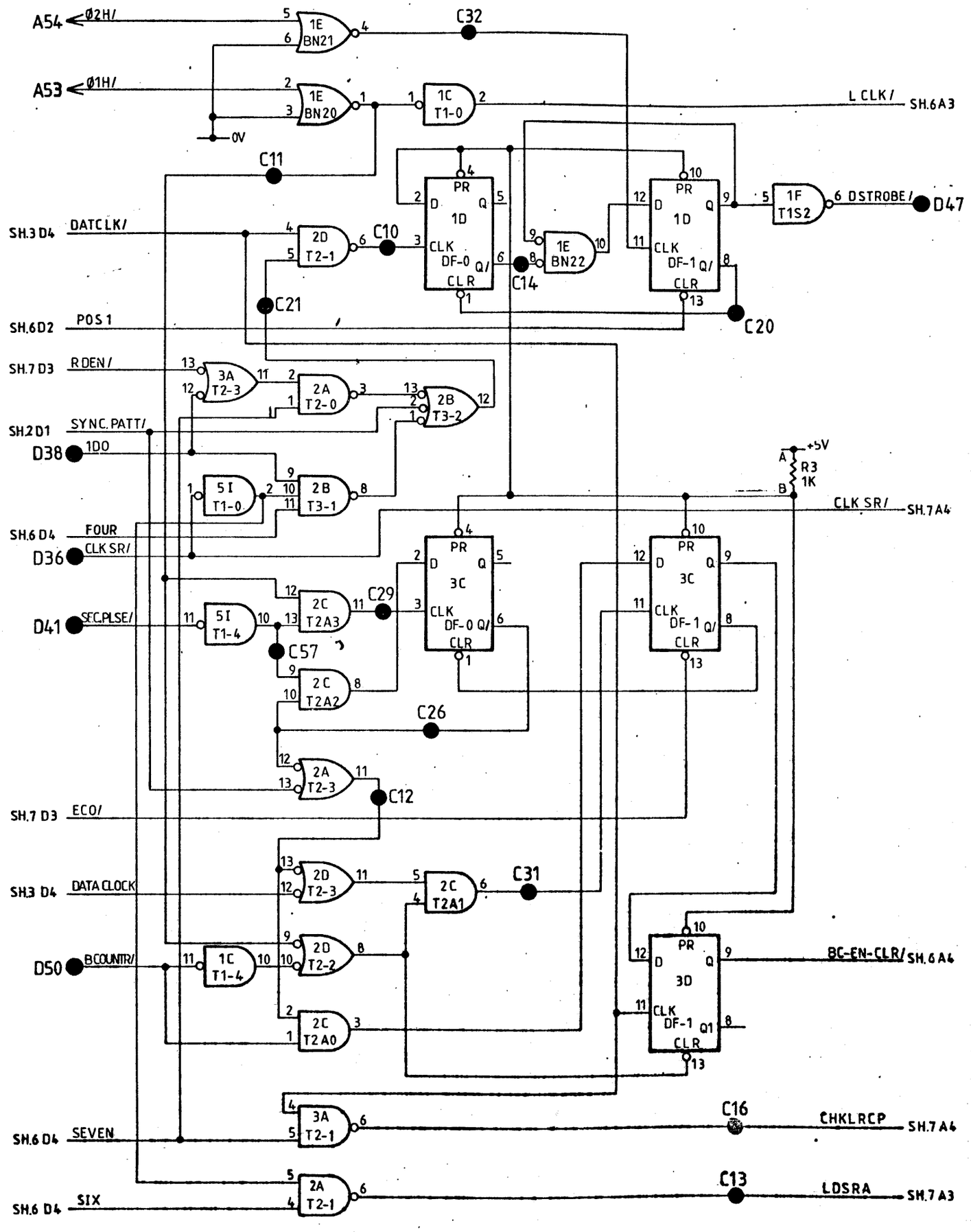

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DSGN. CONTROL 308	TITLE SCHEMATIC , DISK B				
DSGN./ENGR. C.McK.	DATE FEB. 23, 81	DRAWN C.B.	DATE FEB. 23 81	DRAWING No. 3181 1904	
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A	PAGE 5 OF 7

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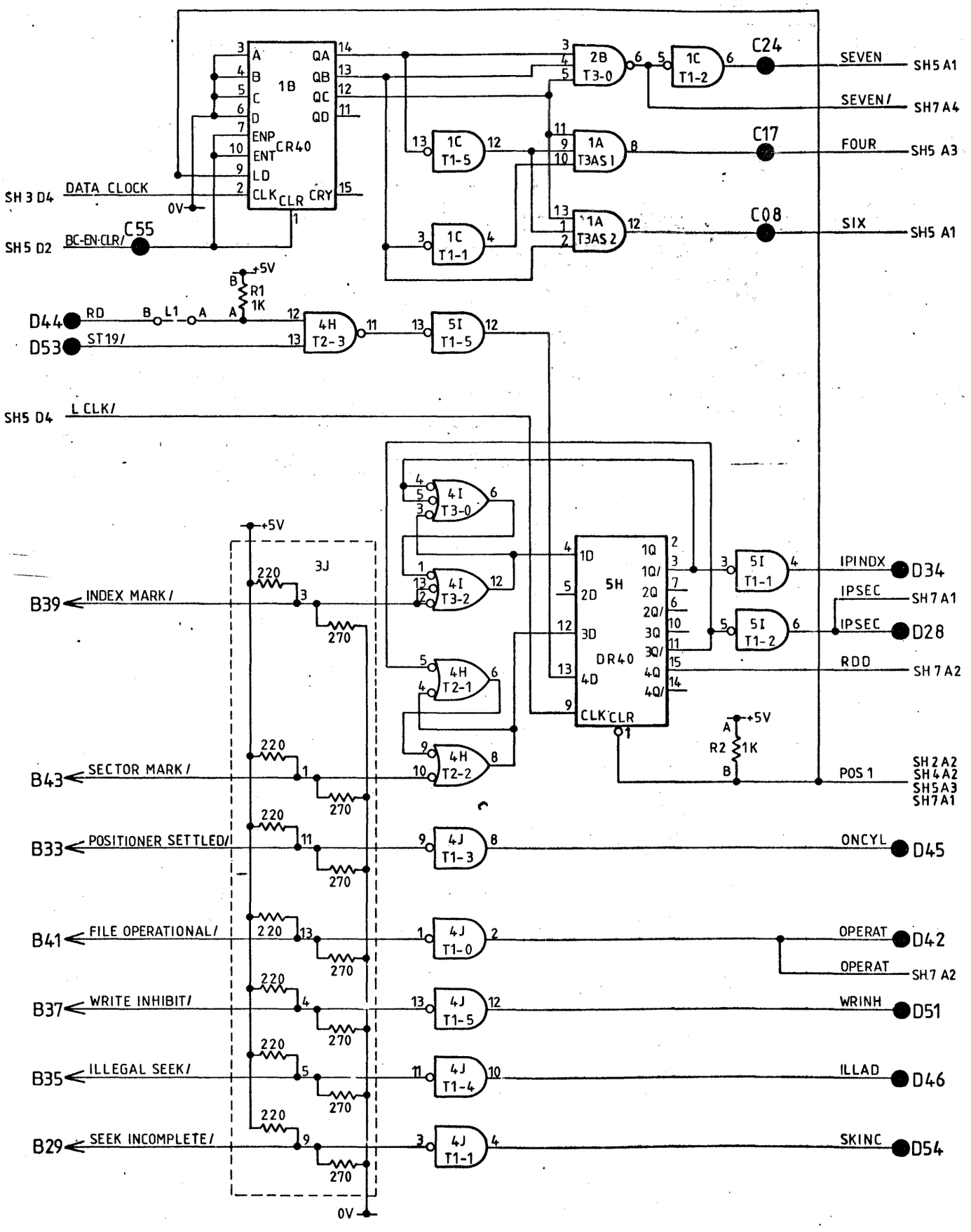

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DSGN. CONTROL 308	TITLE SCHEMATIC DISK B				
DSGN./ENGR. C.McK.	DATE FEB. 23,8	DRAWN C.B.	DATE FEB. 23 80	DRAWING No. 3181 1904	
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A	PAGE 6 OF 7

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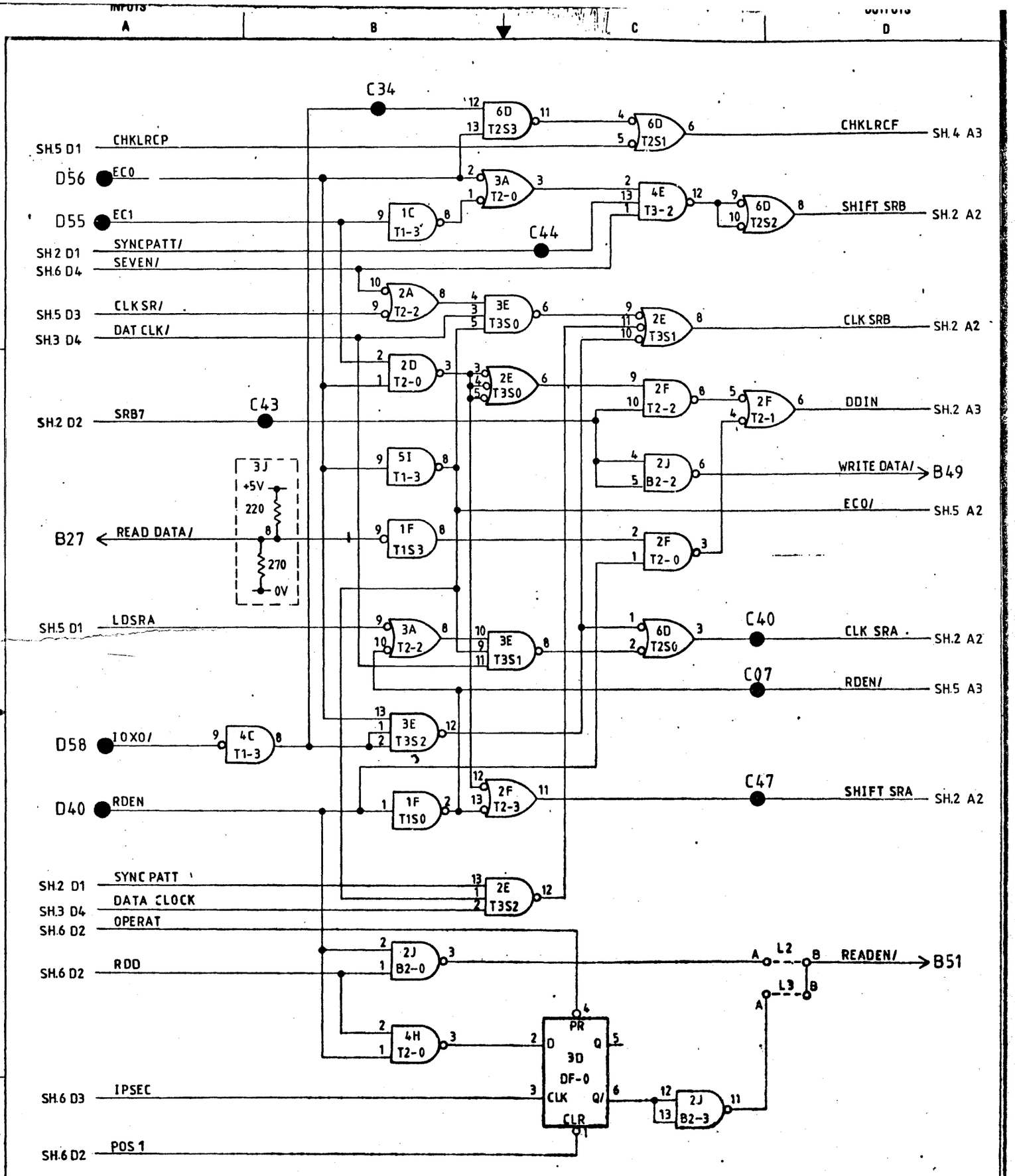

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DSGN. CONTROL 308	TITLE SCHEMATIC , DISK B				
DSGN./ENGR. C.McK.	DATE FEB. 23, 81	DRAWN C.B.	DATE FEB. 23 81	DRAWING No. 3161 1904	
APPROVED	DATE	CHECKED	DATE		
ENG. COMP.	DATE	DRG. SIZE A2.	CLASS CODE 2-9520	REV. A	PAGE 7 OF 7

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