

87654321

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.

2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.

3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV

ZONE

ECN

DESCRIPTION OF CHANGE

CK APPD

ENG APPD

DATE

DATE

01

279015

ENGINEERING RELEASED

06/06/03

?

Sep 17 12:11:39 2003

Schematic , MLB , "Axtena "

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POWER RAIL DEFINITIONS

RUN

SLEEP

SHUTDOWN

+2_5V_MAIN

ON

ON

OFF

+3V_MAIN

ON

ON

OFF

+5V_MAIN

ON

ON

OFF

+5V_SLEEP

ON

OFF

OFF

+12V_MAIN

ON

ON

ON

+12V_SLEEP

ON

OFF

OFF

FW_PWR

ON

ON

OFF

+1.8V_SLEEP

ON

OFF

OFF

+MAXBUS_SLEEP

ON

OFF

OFF

PCB,UL RECOGNIZED, MIN.130 DEG. C TEMP. RATING AND V-0 FLAME RATING PER UL 796 & UL 94. PCB TO BE SILK-SCREENED WITH UL/CUL RECOGNITION MARK, MANUFACTURER'S UL FILE NUMBER, UL PCB MATERIAL DESIGNATION, TEMPERATURE RATING AND FLAME RATING.

DIMENSIONS ARE IN MILLIMETERS

XX : _____

X.XX : _____

X.XXX : _____

ANGLES : _____

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

METRIC

DRAWER

ENG APPD

QA APPD

RELEASE

DESIGN CK

MFG APPD

DESIGNER

SCALE

NONE

MATERIAL/FINISH NOTED AS APPLICABLE

D

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TITLE

SCHEMATIC , MLB

DRAWING NUMBER

051-6497

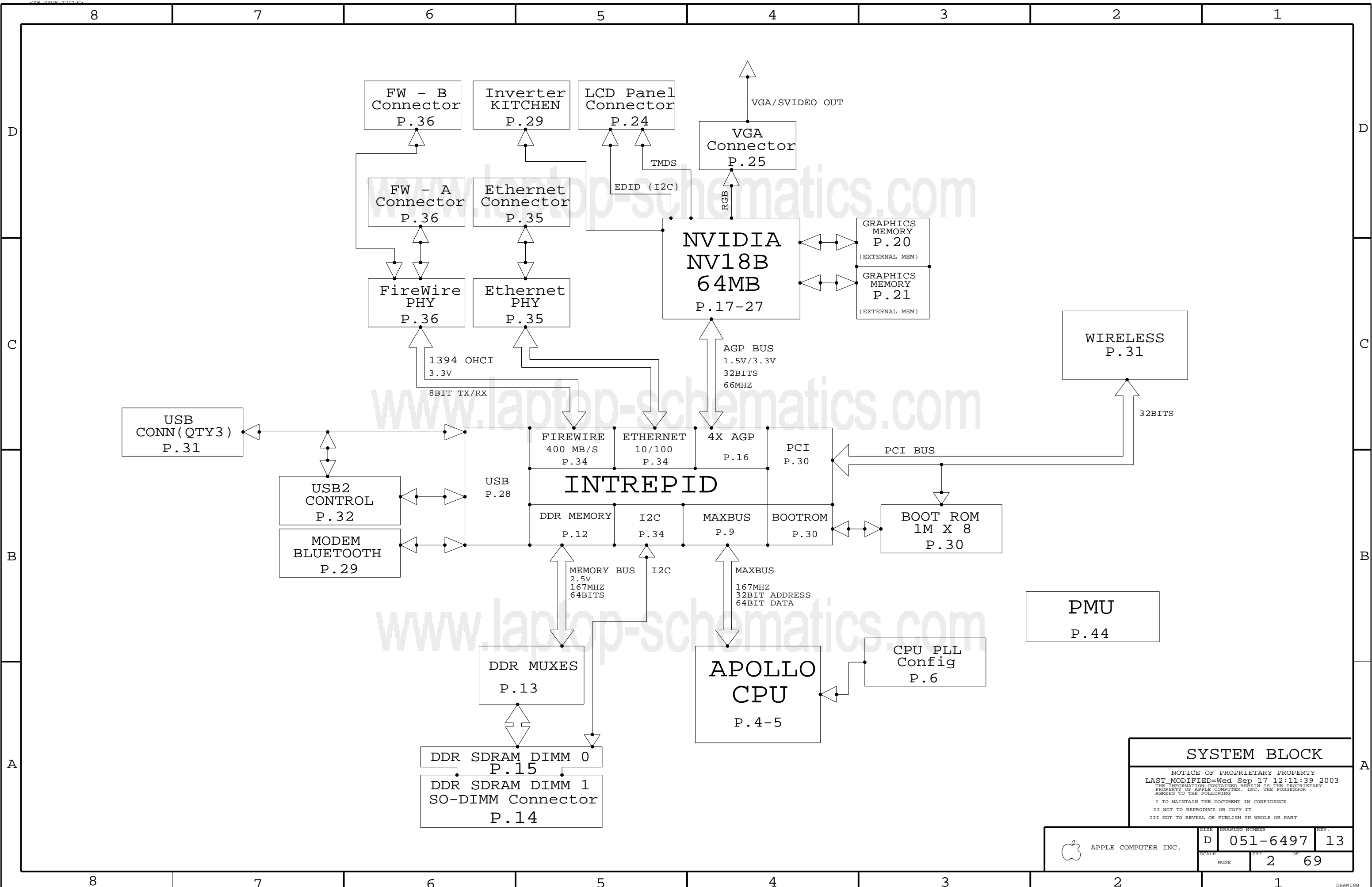
REV.

13

SHT 1 OF 69

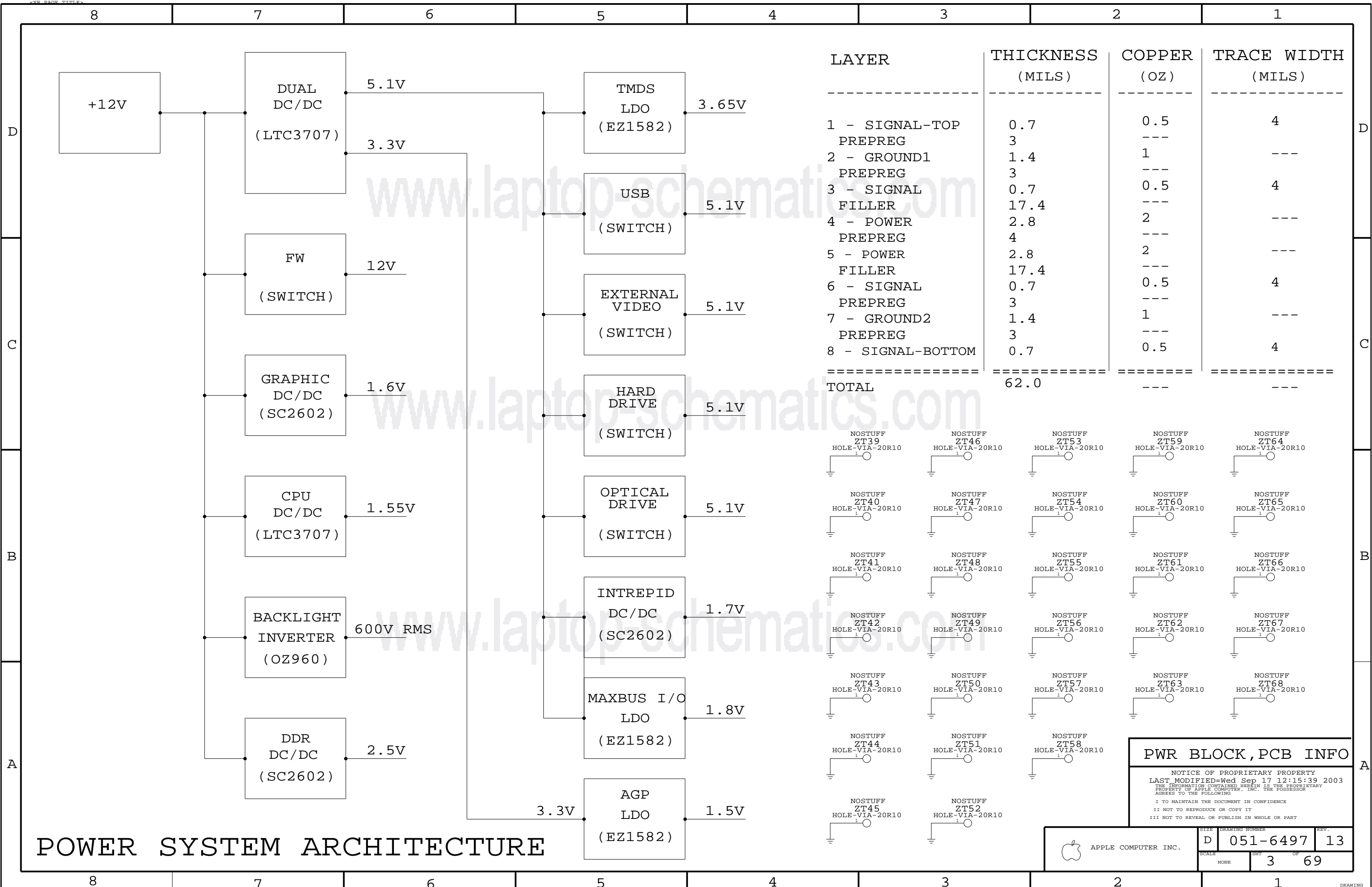
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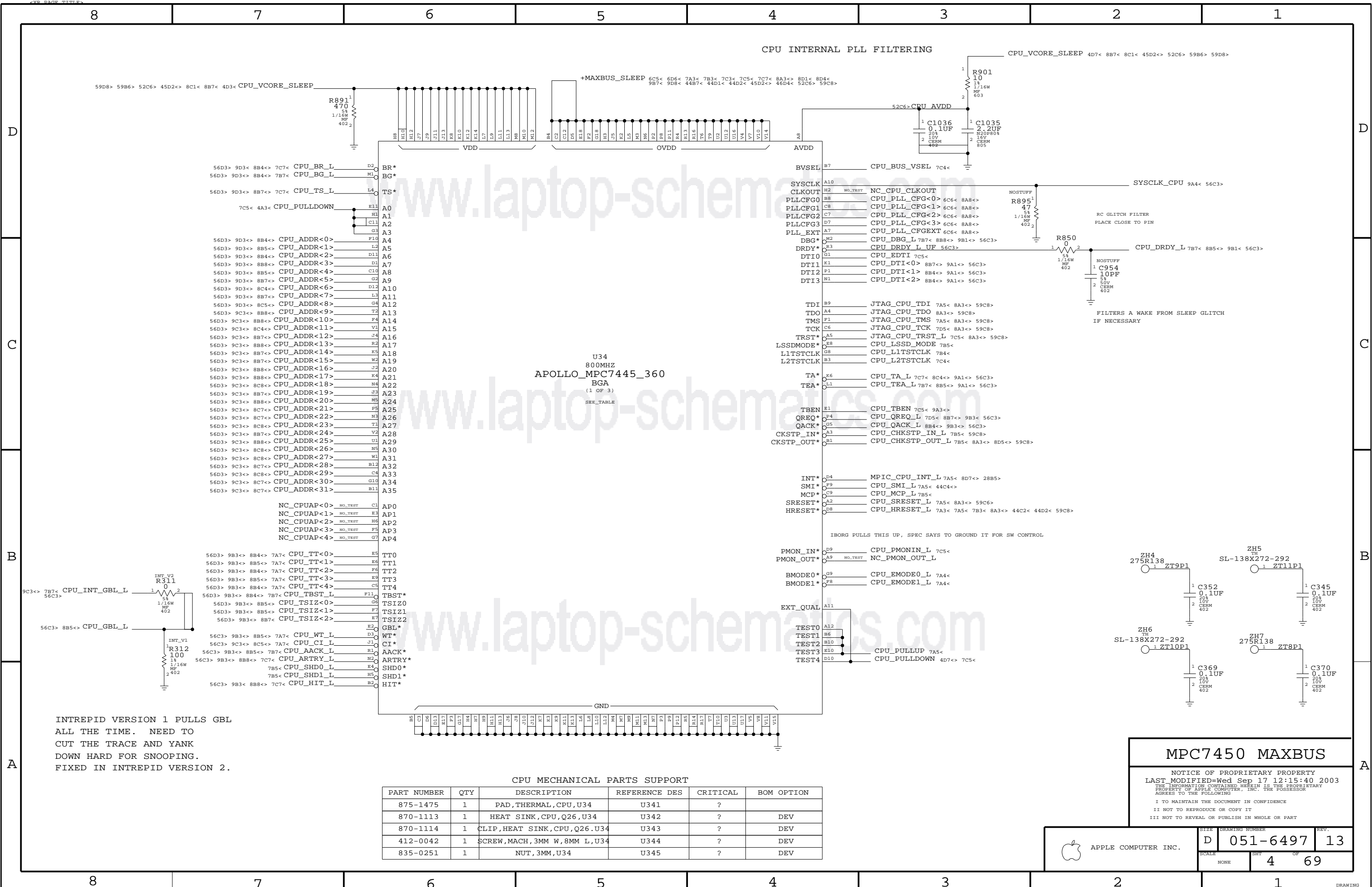
DRAWING



SYSTEM BLOCK		
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NONE		2	69





INTREPID VERSION 1 PULLS GBL
ALL THE TIME. NEED TO
CUT THE TRACE AND YANK
DOWN HARD FOR SNOOPING.
FIXED IN INTREPID VERSION 2.

CPU MECHANICAL PARTS SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
875-1475	1	PAD, THERMAL, CPU, U34	U341	?	
870-1113	1	HEAT SINK, CPU, Q26, U34	U342	?	DEV
870-1114	1	CLIP, HEAT SINK, CPU, Q26, U34	U343	?	DEV
412-0042	1	SCREW, MACH, 3MM W, 8MM L, U34	U344	?	DEV
835-0251	1	NUT, 3MM, U34	U345	?	DEV

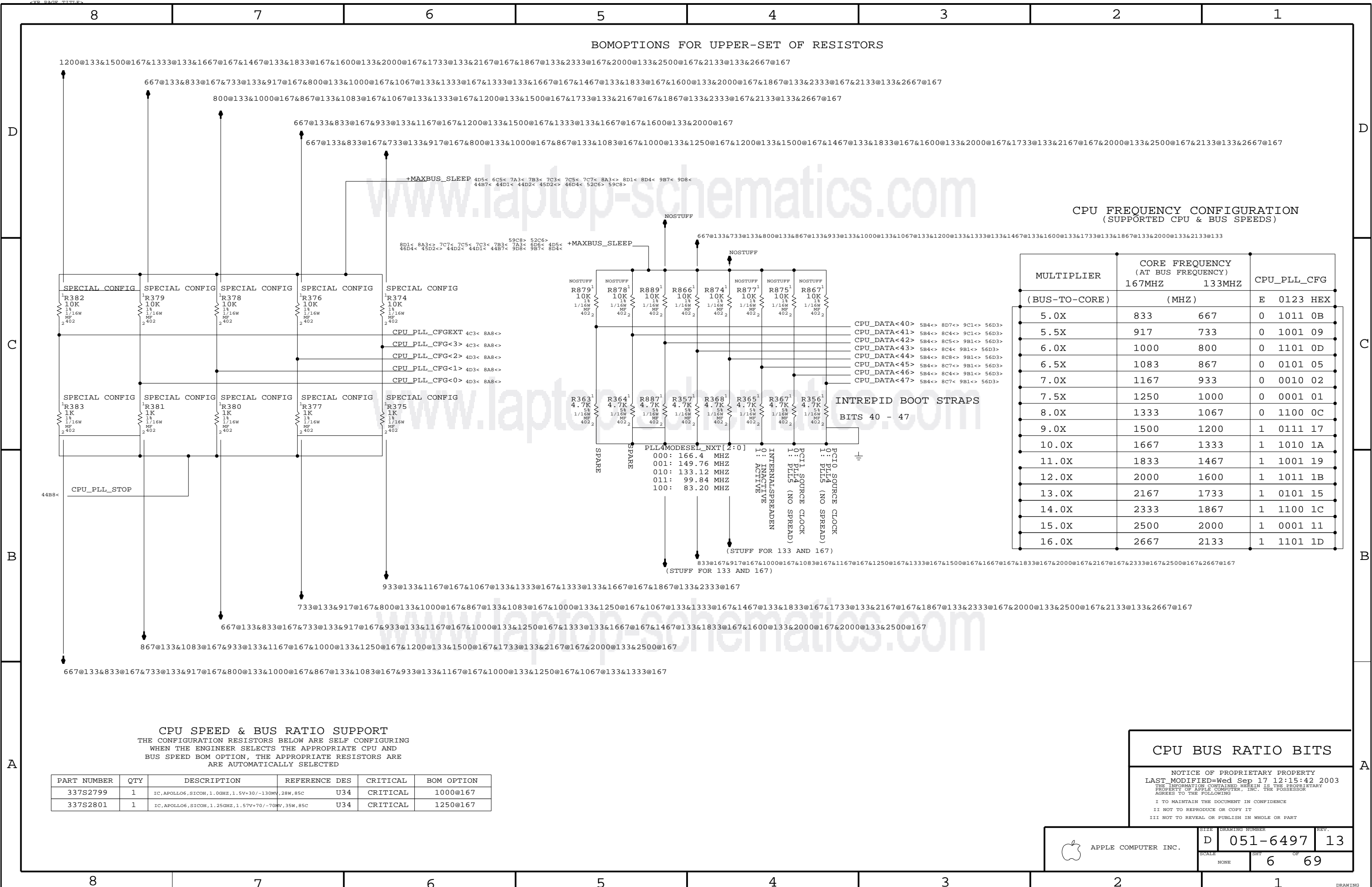
MPC7450 MAXBUS

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NONE	4	69

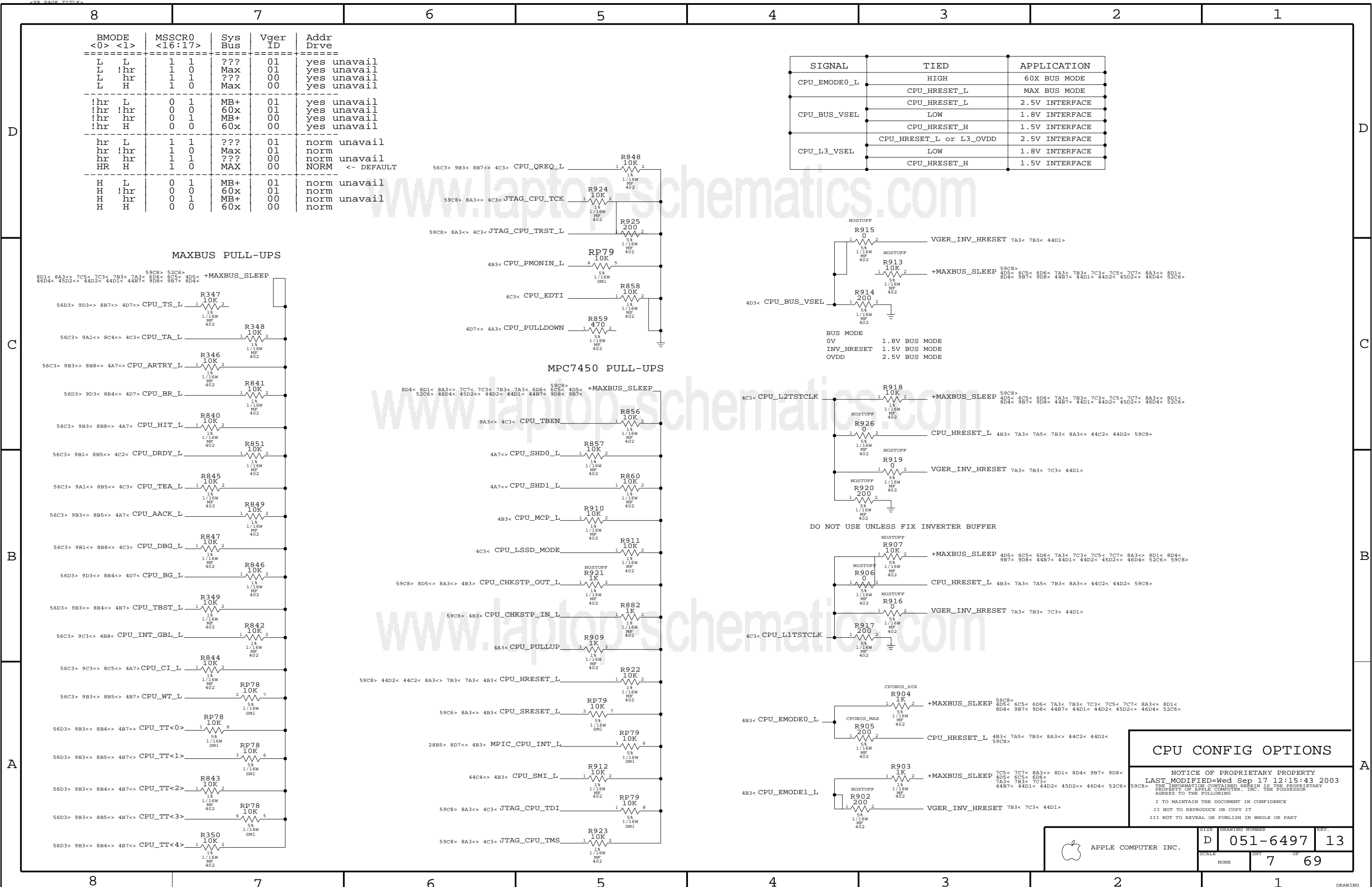


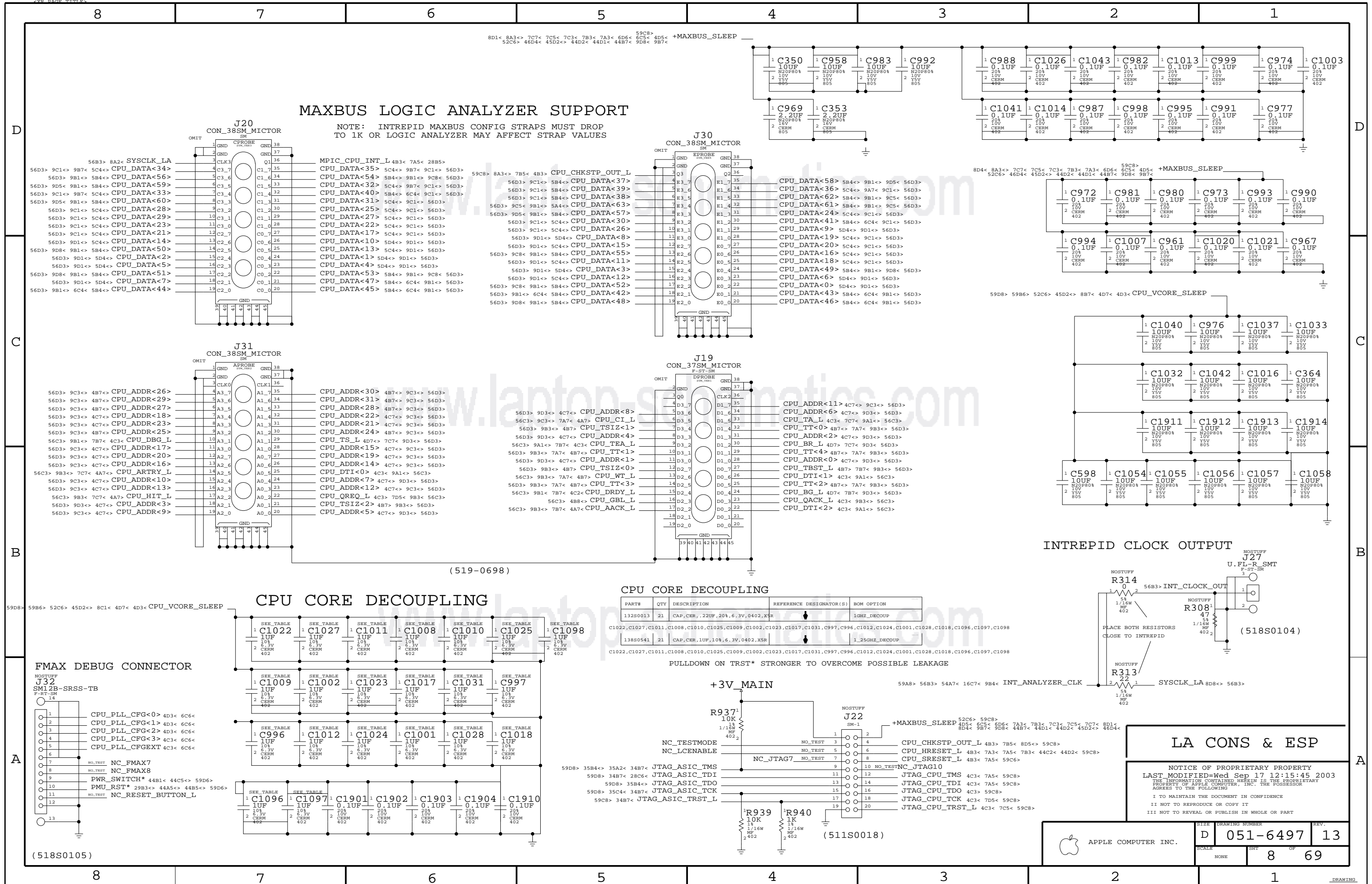
CPU BUS RATIO BITS

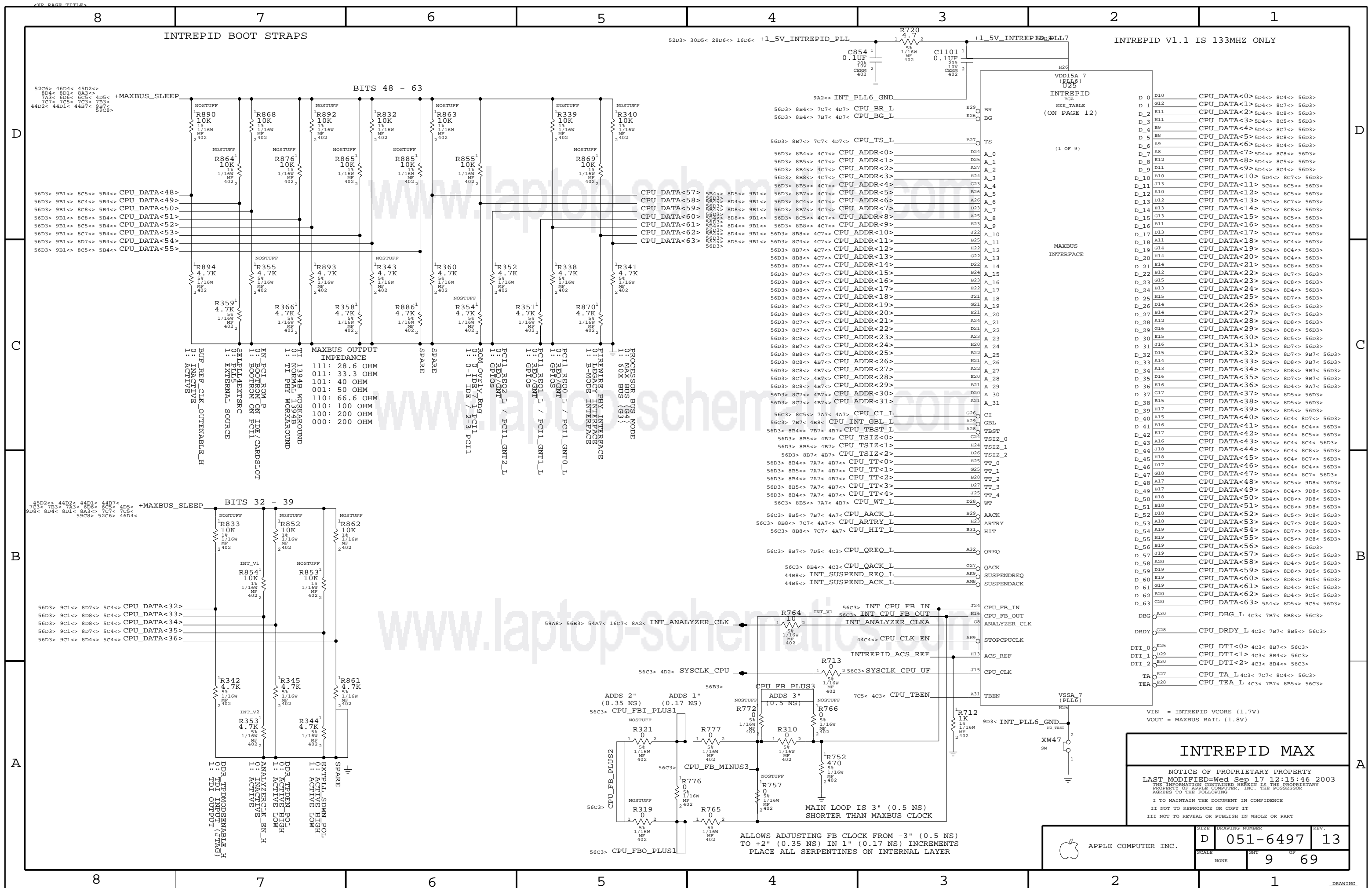
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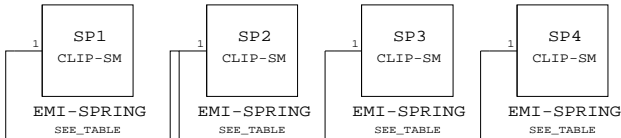
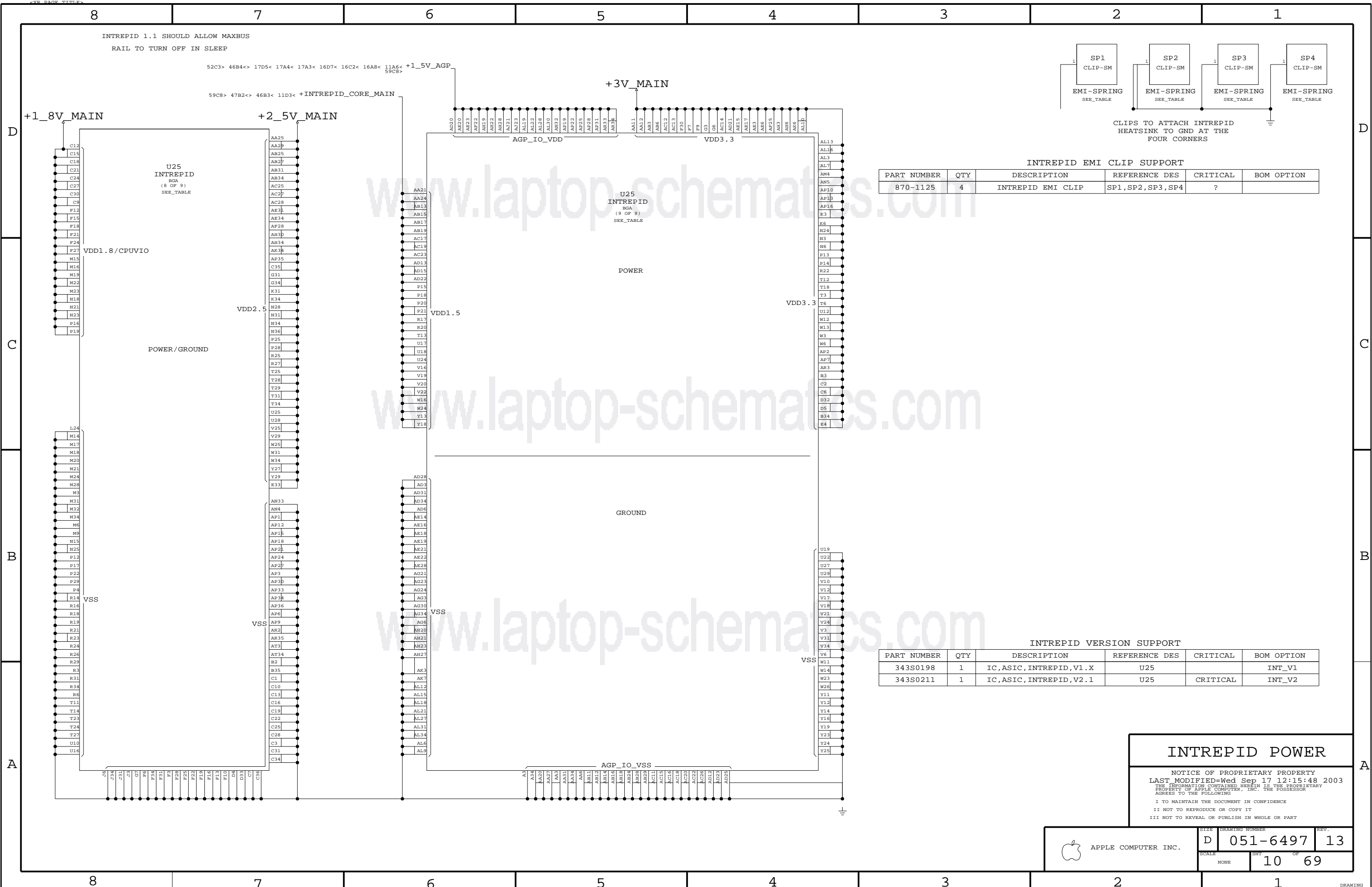
 APPLE COMPUTER INC.

SIZE	D	DRAWING NUMBER	051-6497	REV.	13
SCALE	NONE	SHT	6	OF	69









CLIPS TO ATTACH INTREPID
HEATSINK TO GND AT THE
FOUR CORNERS

INTREPID EMI CLIP SUPPORT					
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
870-1125	4	INTREPID EMI CLIP	SP1,SP2,SP3,SP4	?	

INTREPID VERSION SUPPORT					
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
343S0198	1	IC,ASIC,INTREPID,V1.X	U25		INT_V1
343S0211	1	IC,ASIC,INTREPID,V2.1	U25	CRITICAL	INT_V2

INTREPID POWER

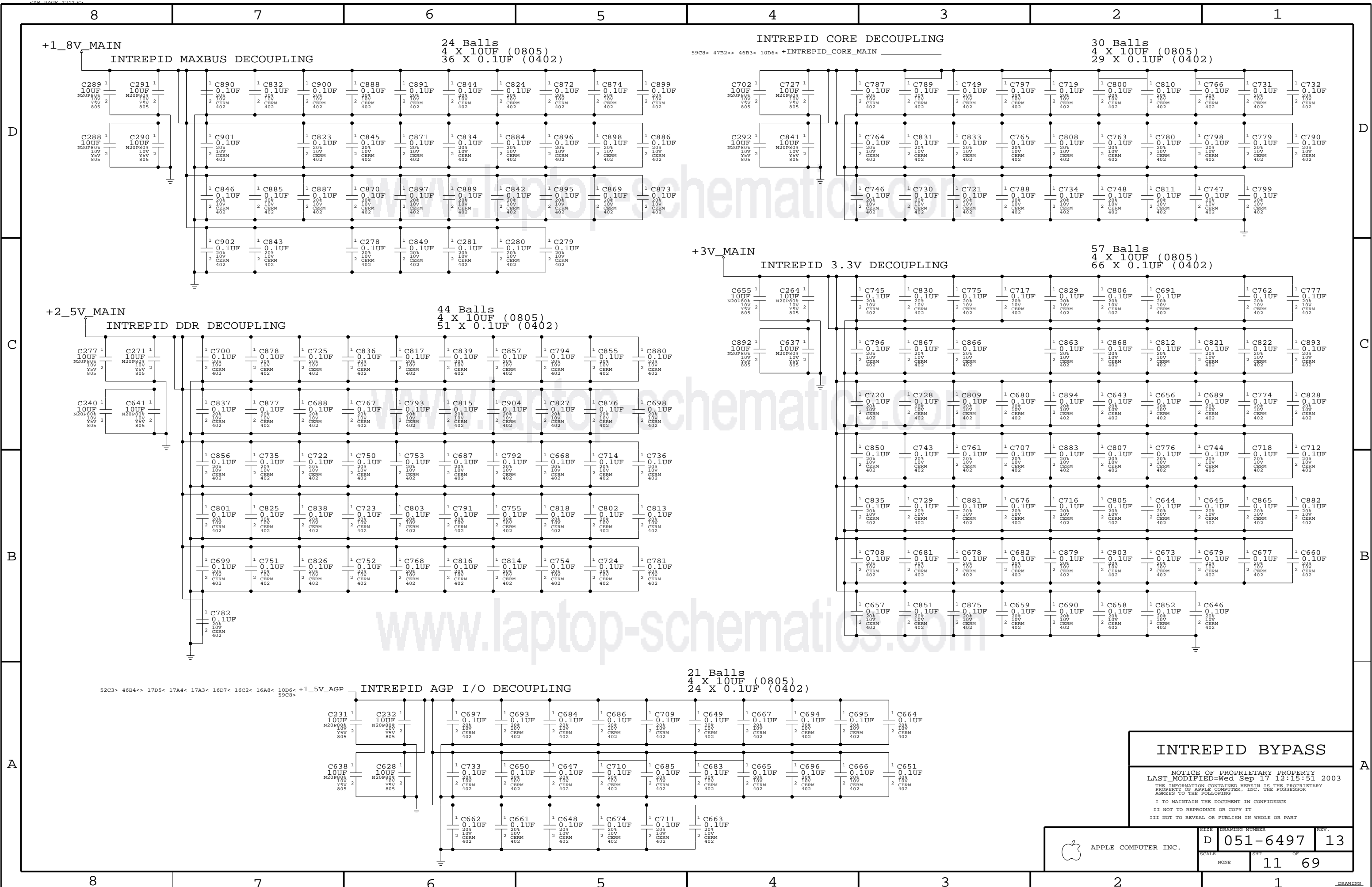
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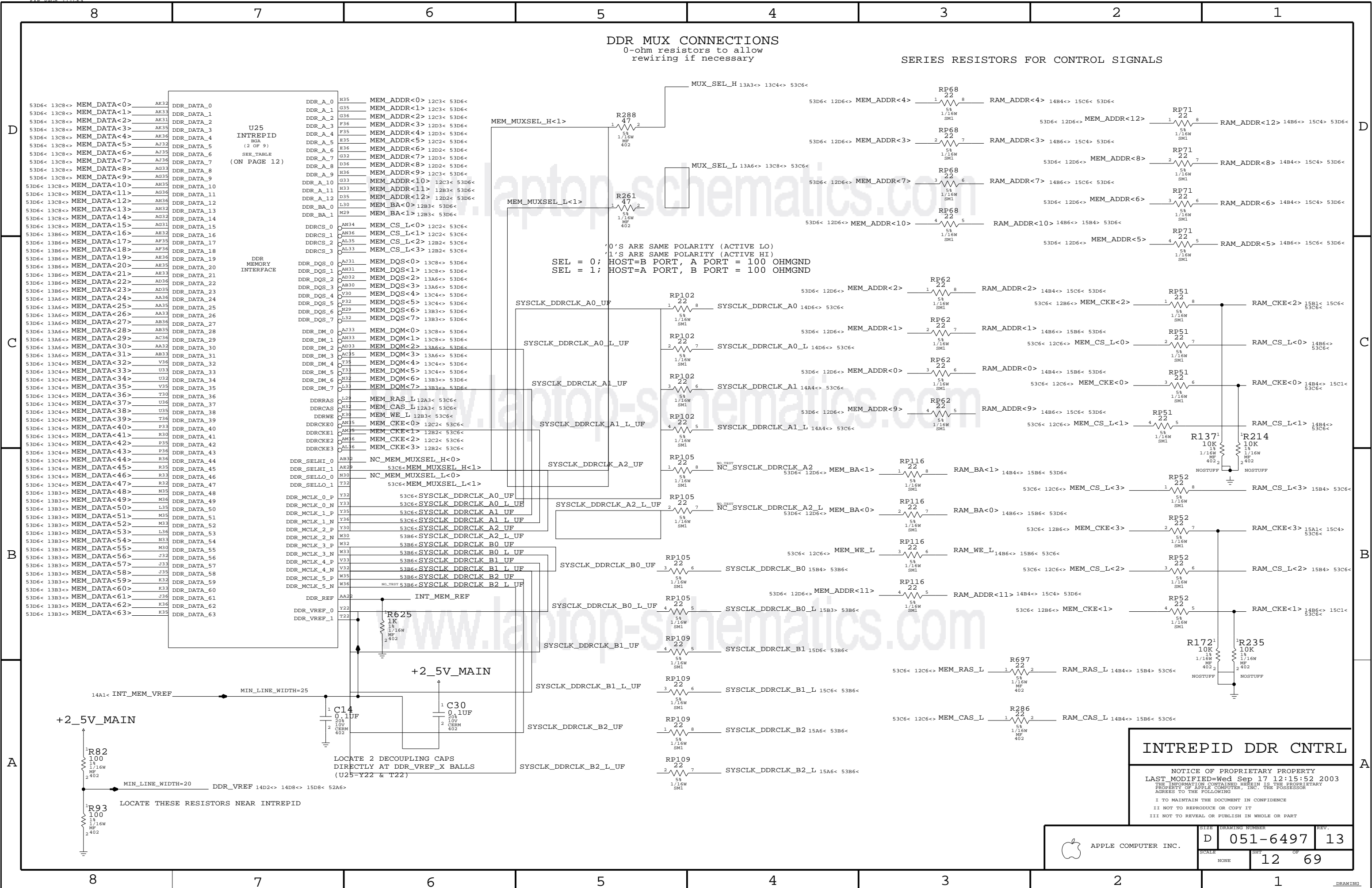
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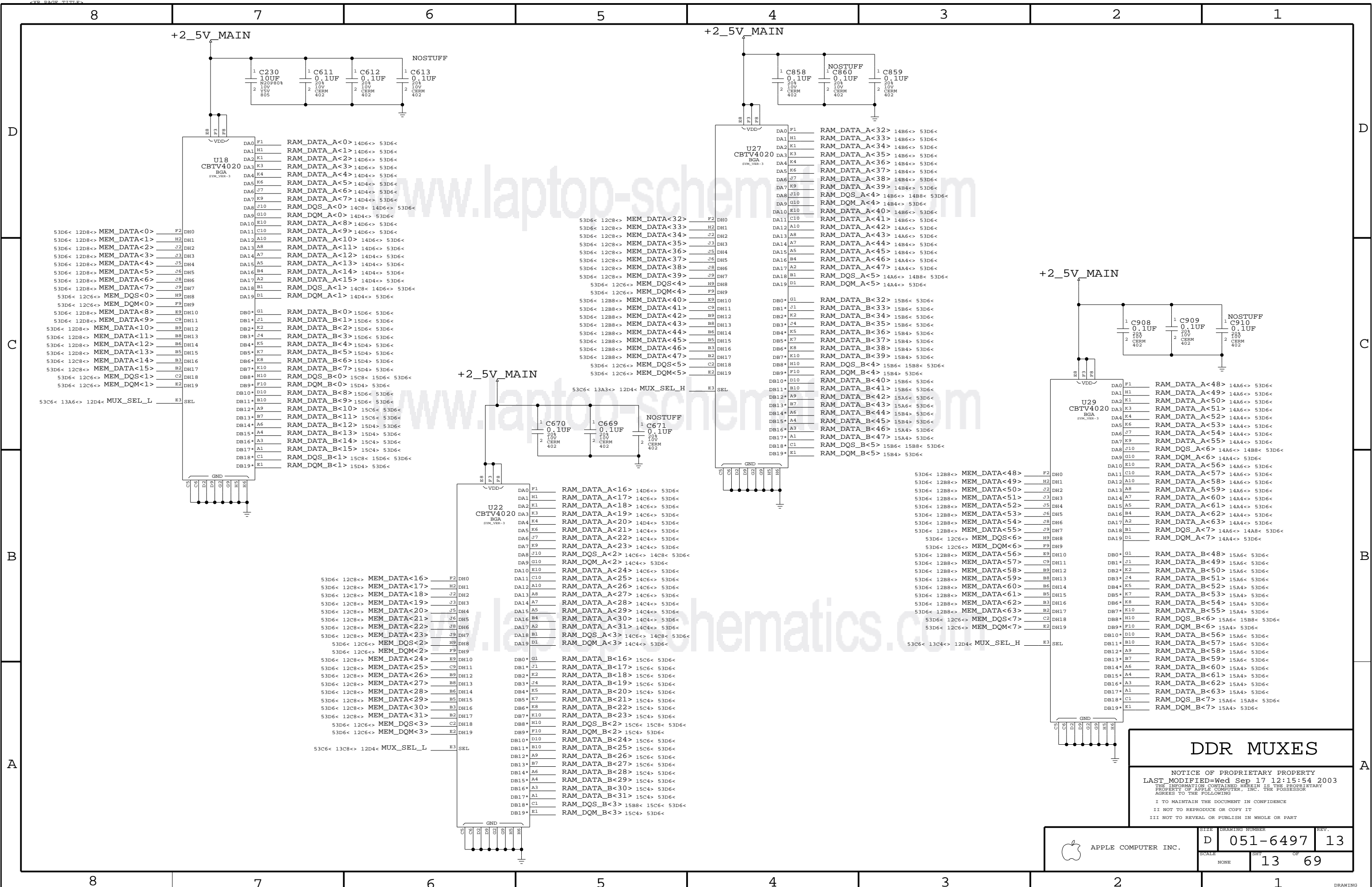


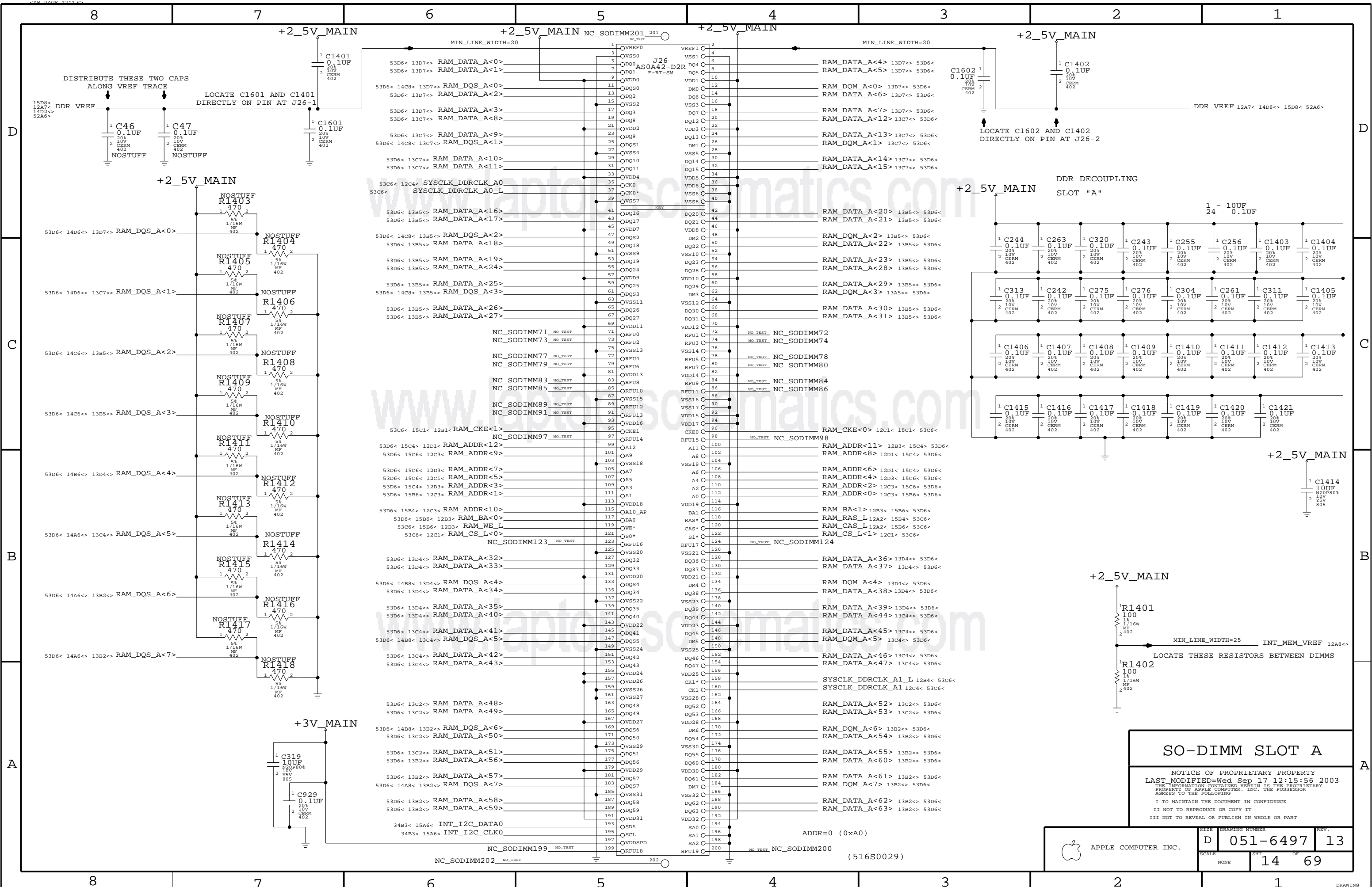
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SIZE	DRAWING NUMBER	REV.
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NONE	10	69





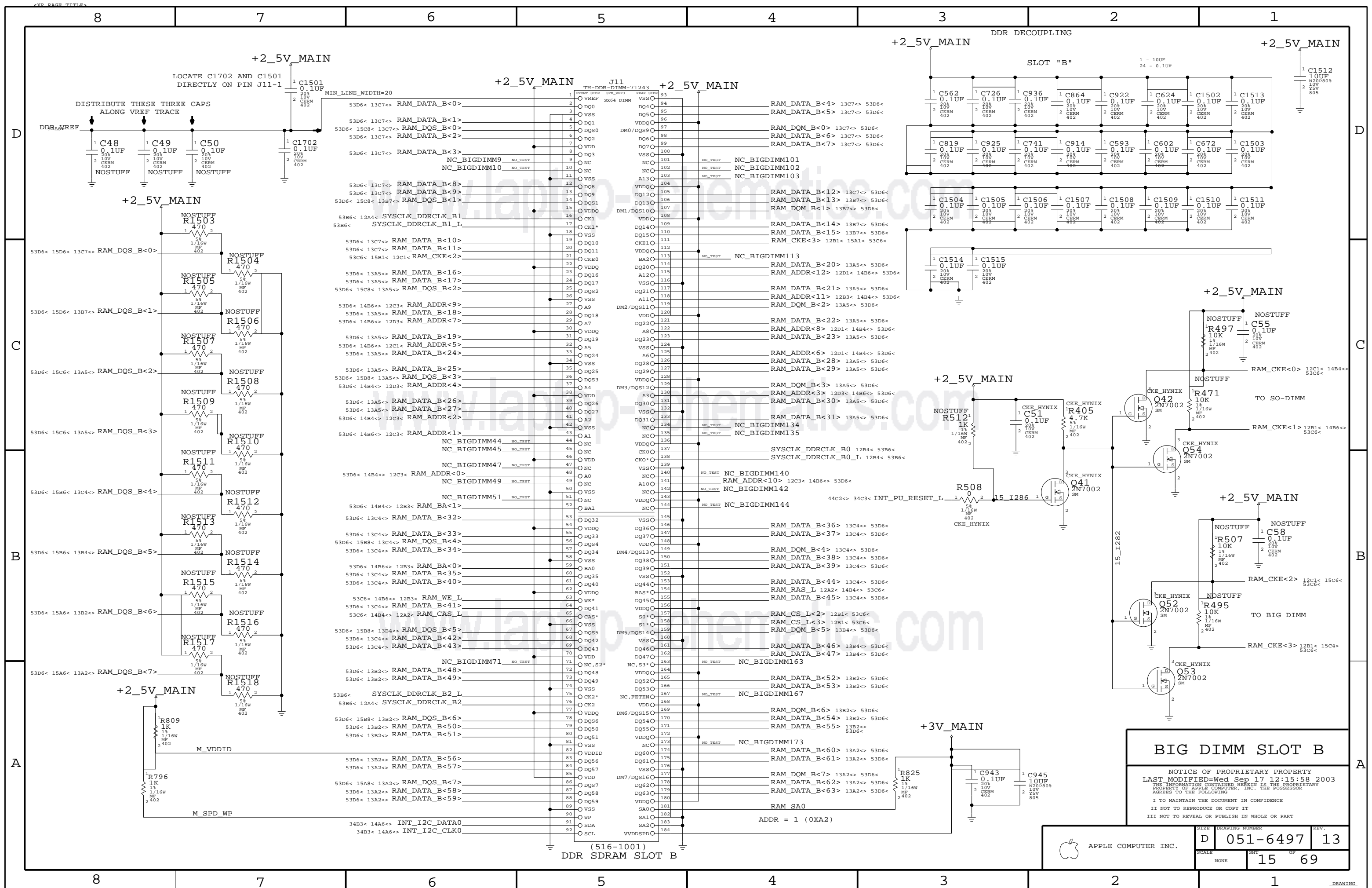


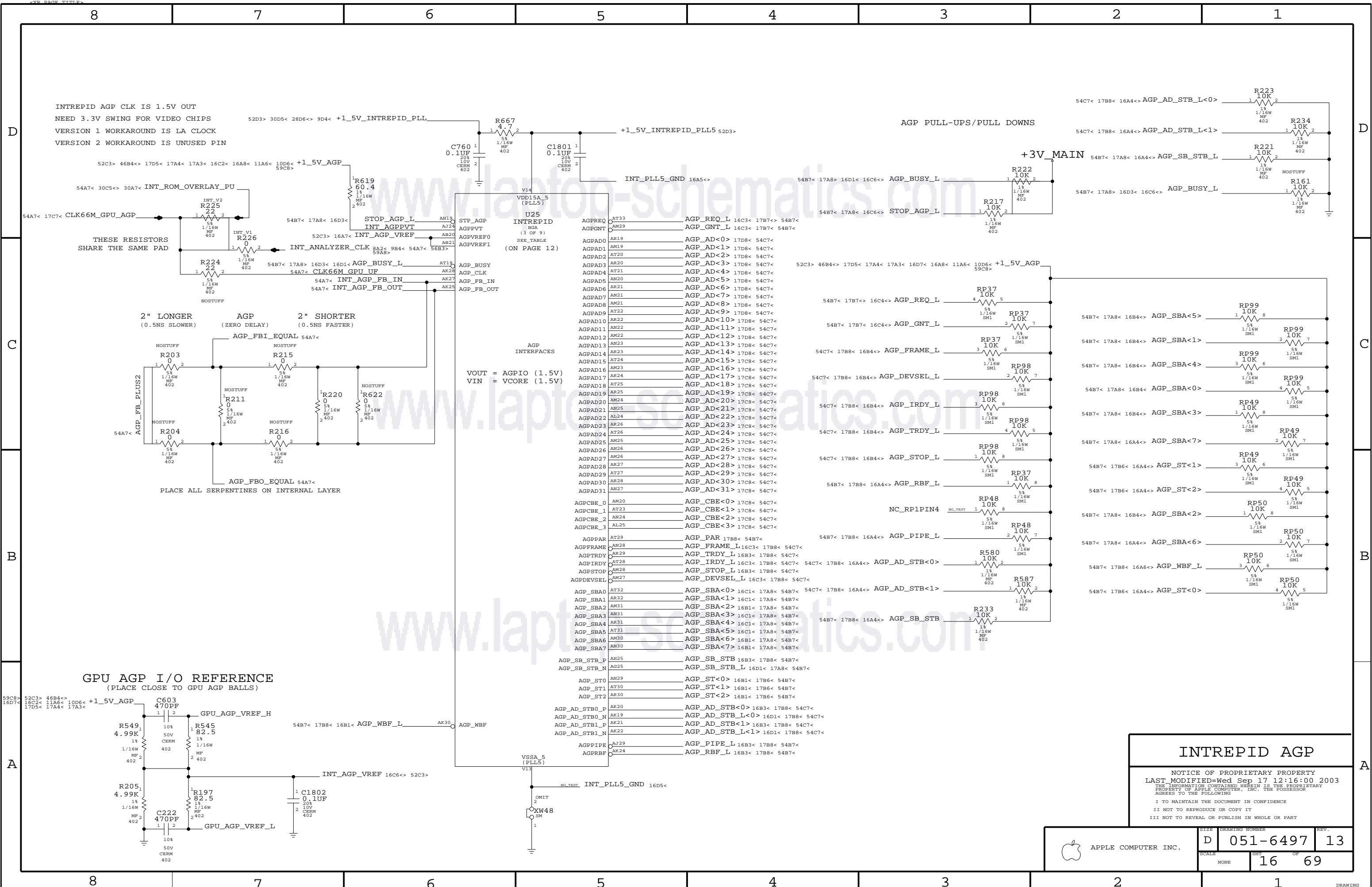


SO-DIMM SLOT A

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	NONE	14	69



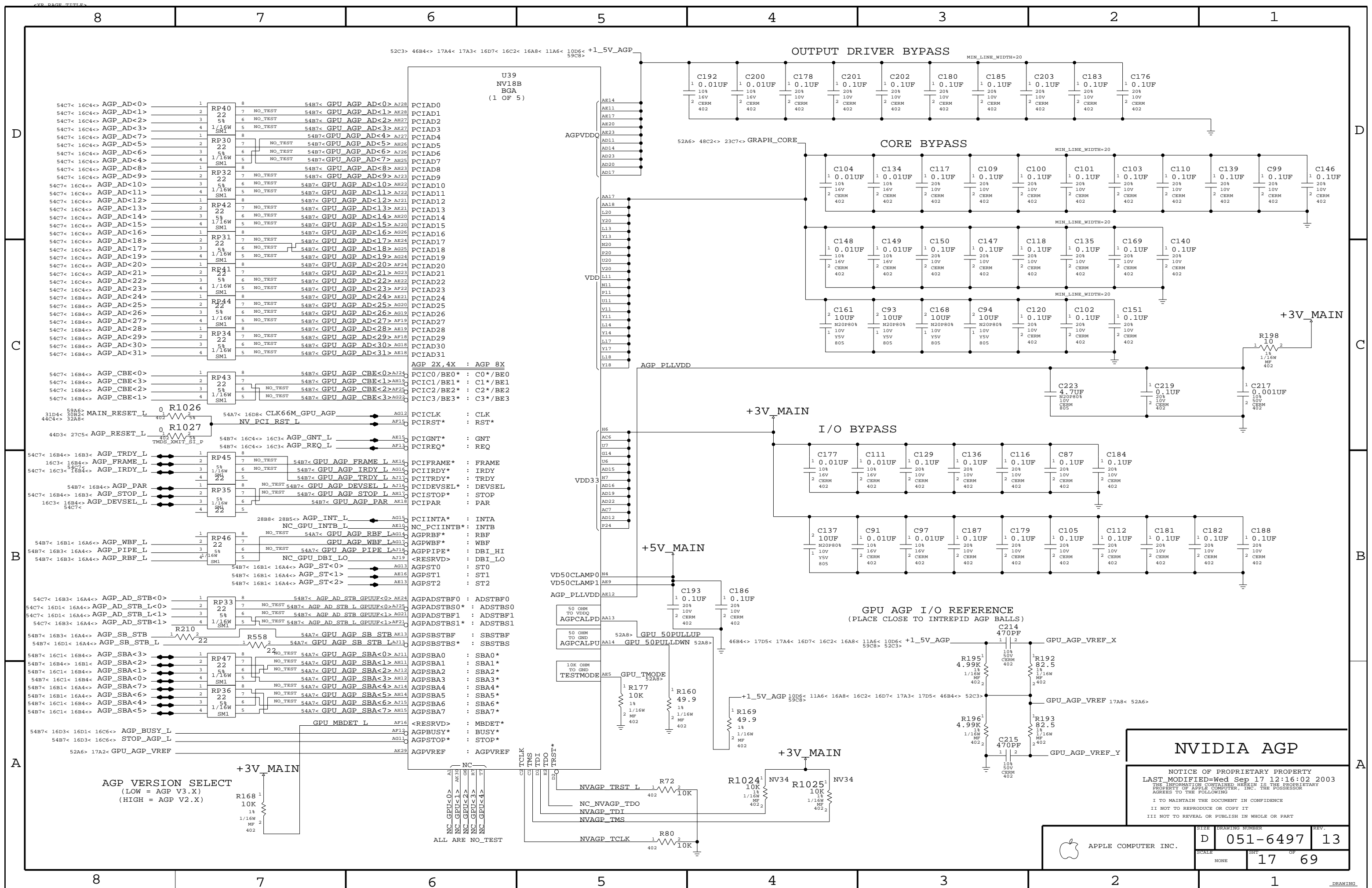


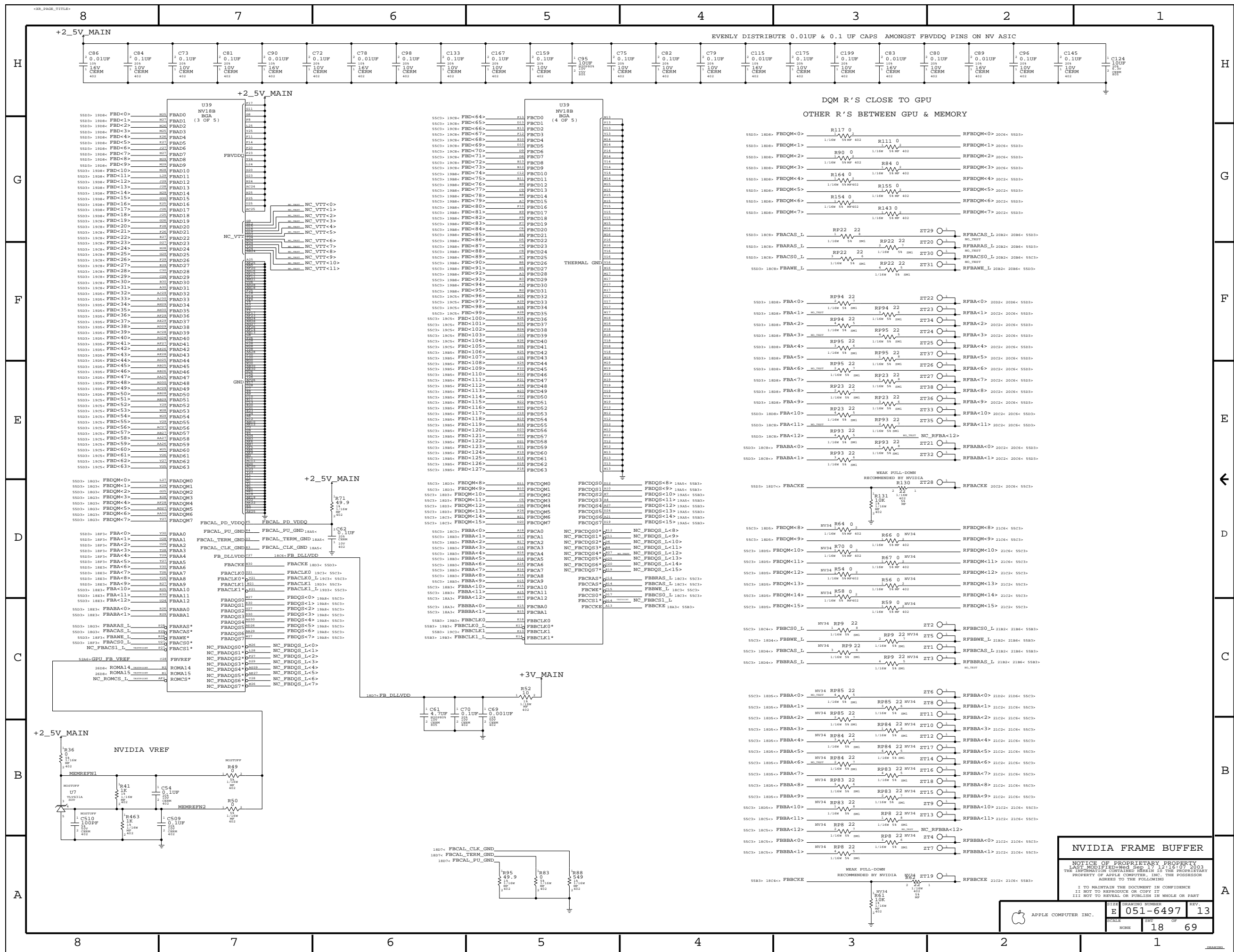
INTREPID AGP

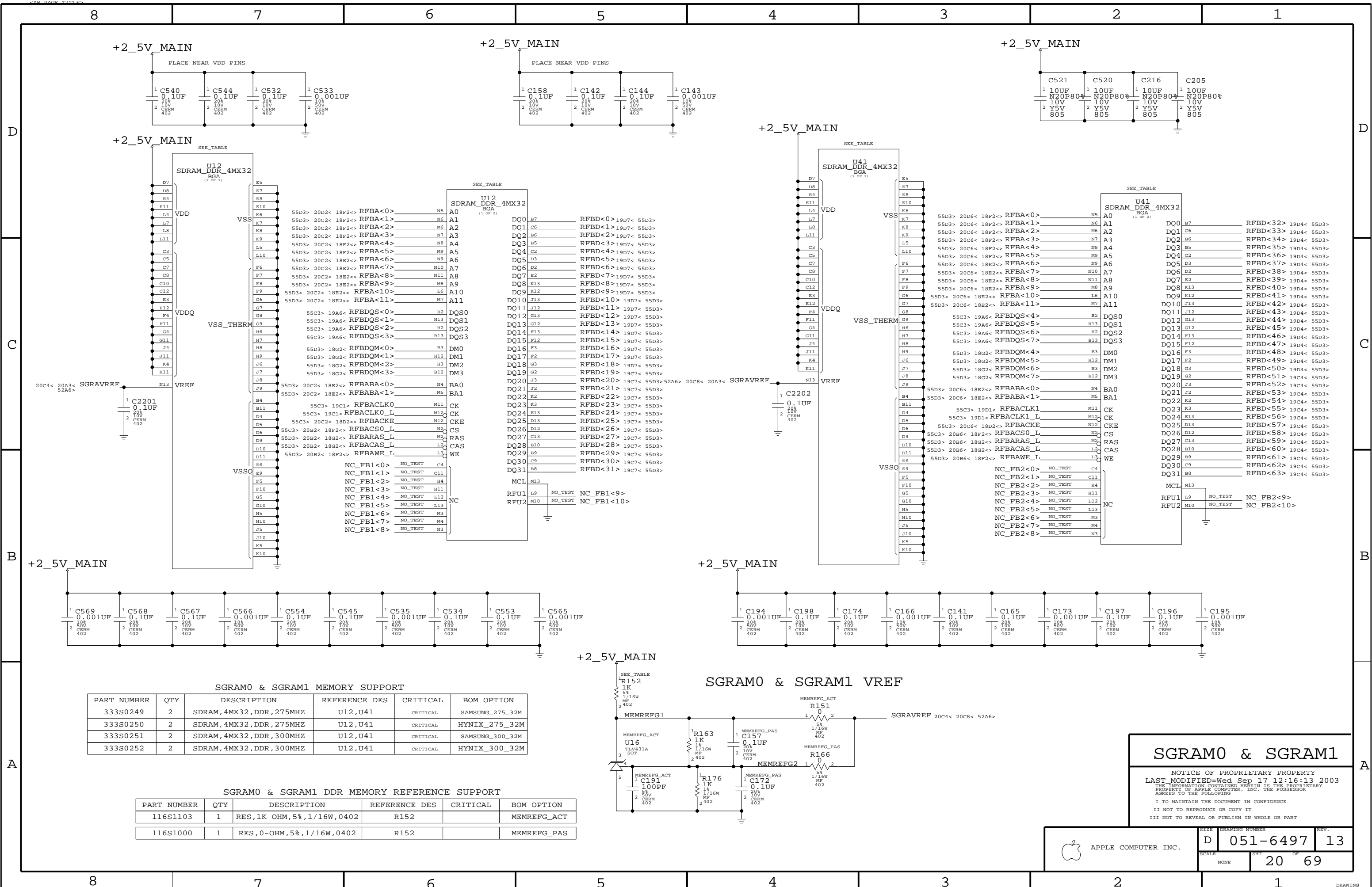
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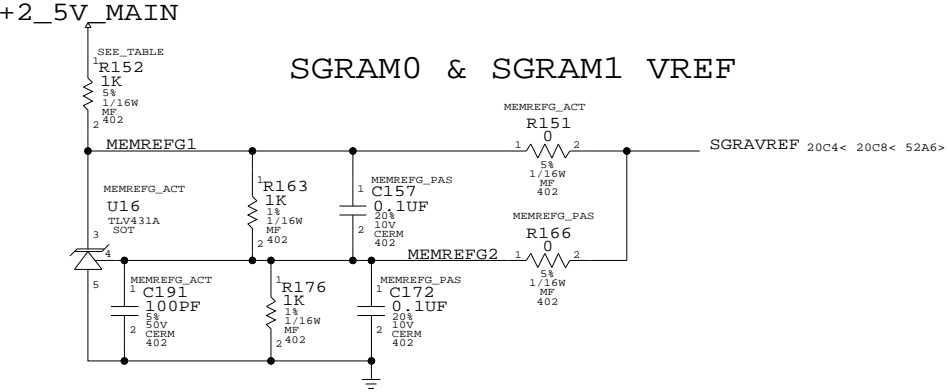






SGRAM0 & SGRAM1 MEMORY SUPPORT					
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
333S0249	2	SDRAM, 4MX32, DDR, 275MHZ	U12, U41	CRITICAL	SAMSUNG_275_32M
333S0250	2	SDRAM, 4MX32, DDR, 275MHZ	U12, U41	CRITICAL	HYNIX_275_32M
333S0251	2	SDRAM, 4MX32, DDR, 300MHZ	U12, U41	CRITICAL	SAMSUNG_300_32M
333S0252	2	SDRAM, 4MX32, DDR, 300MHZ	U12, U41	CRITICAL	HYNIX_300_32M

SGRAM0 & SGRAM1 DDR MEMORY REFERENCE SUPPORT					
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116S1103	1	RES, 1K-OHM, 5%, 1/16W, 0402	R152	CRITICAL	MEMREFG_ACT
116S1000	1	RES, 0-OHM, 5%, 1/16W, 0402	R152		MEMREFG_PAS



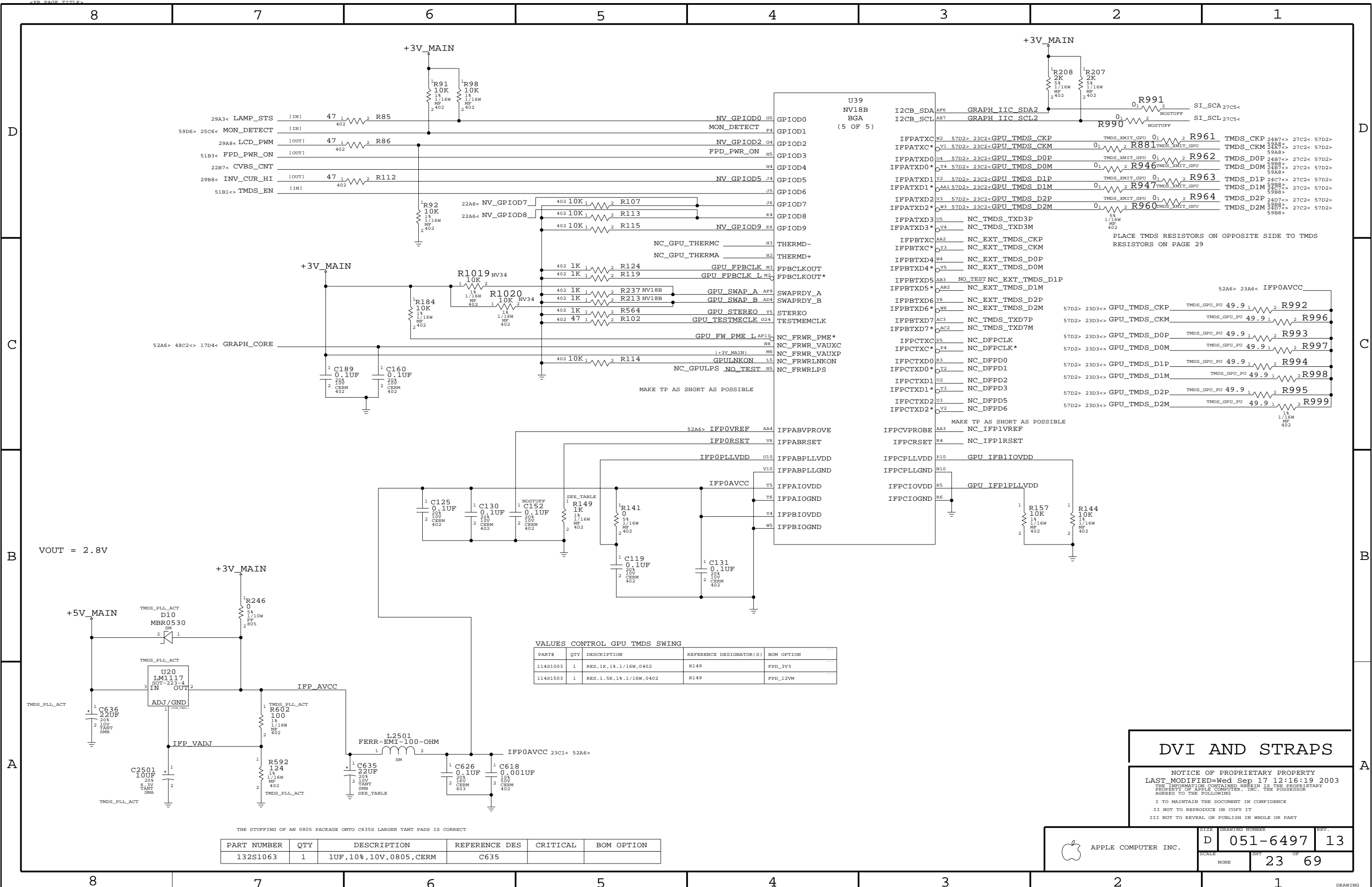
SGRAM0 & SGRAM1

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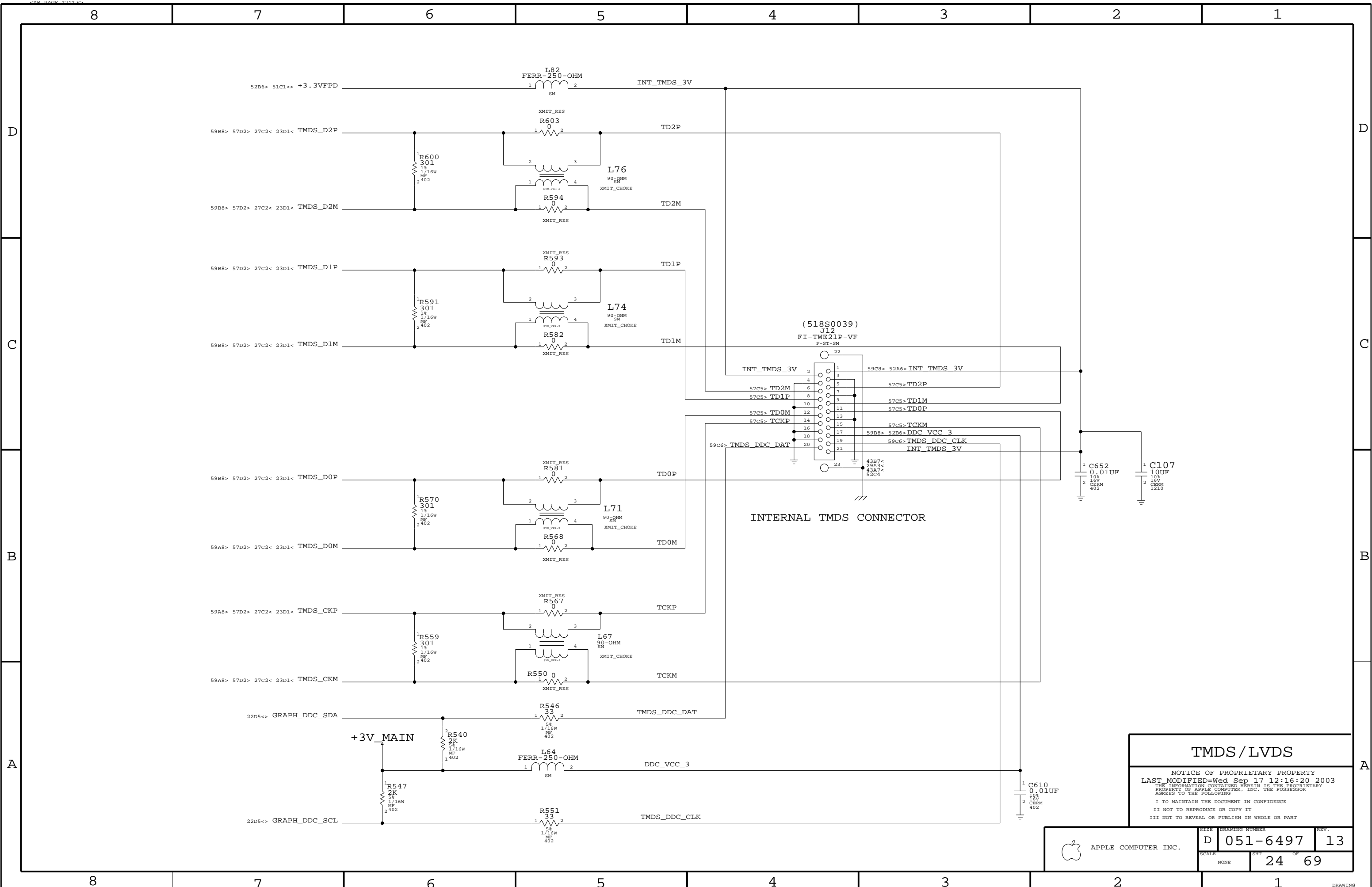
SIZE	DRAWING NUMBER	REV.
D	051-6497	13
SCALE	SHT	OF
NONE	20	69

AA



PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
132S1063	1	1UF,10%,10V,0805,CERM	C635		

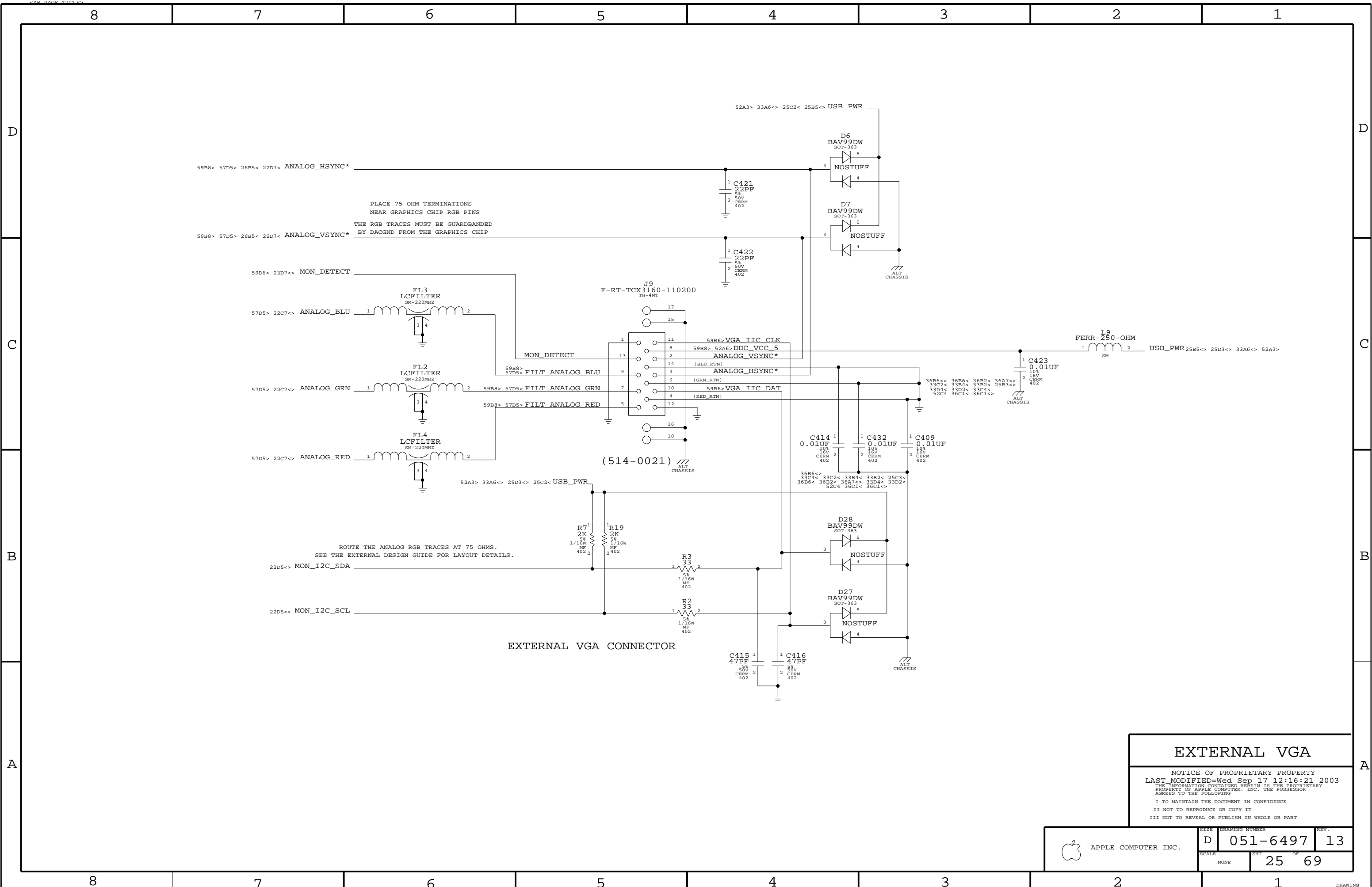
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	NONE	23	69



TMDS/LVDS

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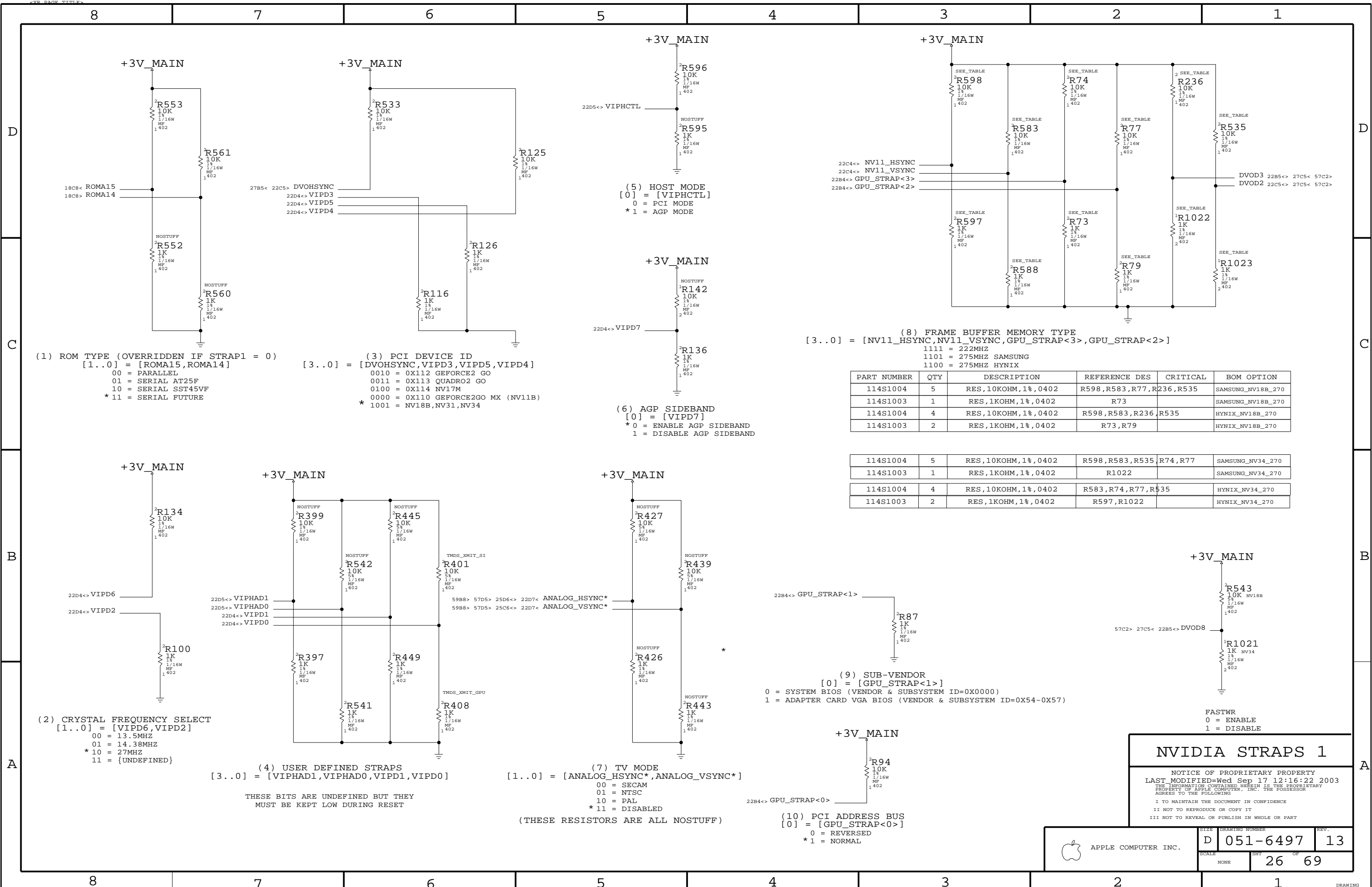
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	24		69



EXTERNAL VGA

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NONE		25	69



(1) ROM TYPE (OVERRIDDEN IF STRAP1 = 0)
[1..0] = [ROMA15,ROMA14]
00 = PARALLEL
01 = SERIAL AT25F
10 = SERIAL SST45VF
* 11 = SERIAL FUTURE

(3) PCI DEVICE ID
[3..0] = [DVOHSYNC,VIPD3,VIPD5,VIPD4]
0010 = 0X112 GEFORCE2 GO
0011 = 0X113 QUADRO2 GO
0100 = 0X114 NV17M
0000 = 0X110 GEFORCE2GO MX (NV11B)
* 1001 = NV18B,NV31,NV34

(6) AGP SIDEBAND
[0] = [VIPD7]
* 0 = ENABLE AGP SIDEBAND
1 = DISABLE AGP SIDEBAND

(8) FRAME BUFFER MEMORY TYPE
[3..0] = [NV11_HSYNC,NV11_VSYNC,GPU_STRAP<3>,GPU_STRAP<2>]
1111 = 222MHZ
1101 = 275MHZ SAMSUNG
1100 = 275MHZ HYNIX

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
114S1004	5	RES,10KOHM,1%,0402	R598,R583,R77,R236,R535		SAMSUNG_NV18B_270
114S1003	1	RES,1KOHM,1%,0402	R73		SAMSUNG_NV18B_270
114S1004	4	RES,10KOHM,1%,0402	R598,R583,R236,R535		HYNIX_NV18B_270
114S1003	2	RES,1KOHM,1%,0402	R73,R79		HYNIX_NV18B_270

114S1004	5	RES,10KOHM,1%,0402	R598,R583,R535	R74,R77	SAMSUNG_NV34_270
114S1003	1	RES,1KOHM,1%,0402	R1022		SAMSUNG_NV34_270

114S1004	4	RES,10KOHM,1%,0402	R583,R74,R77,R535		HYNIX_NV34_270
114S1003	2	RES,1KOHM,1%,0402	R597,R1022		HYNIX_NV34_270

(9) SUB-VENDOR
[0] = [GPU_STRAP<1>]
0 = SYSTEM BIOS (VENDOR & SUBSYSTEM ID=0X0000)
1 = ADAPTER CARD VGA BIOS (VENDOR & SUBSYSTEM ID=0X54-0X57)

(10) PCI ADDRESS BUS
[0] = [GPU_STRAP<0>]
0 = REVERSED
* 1 = NORMAL

NVIDIA STRAPS 1

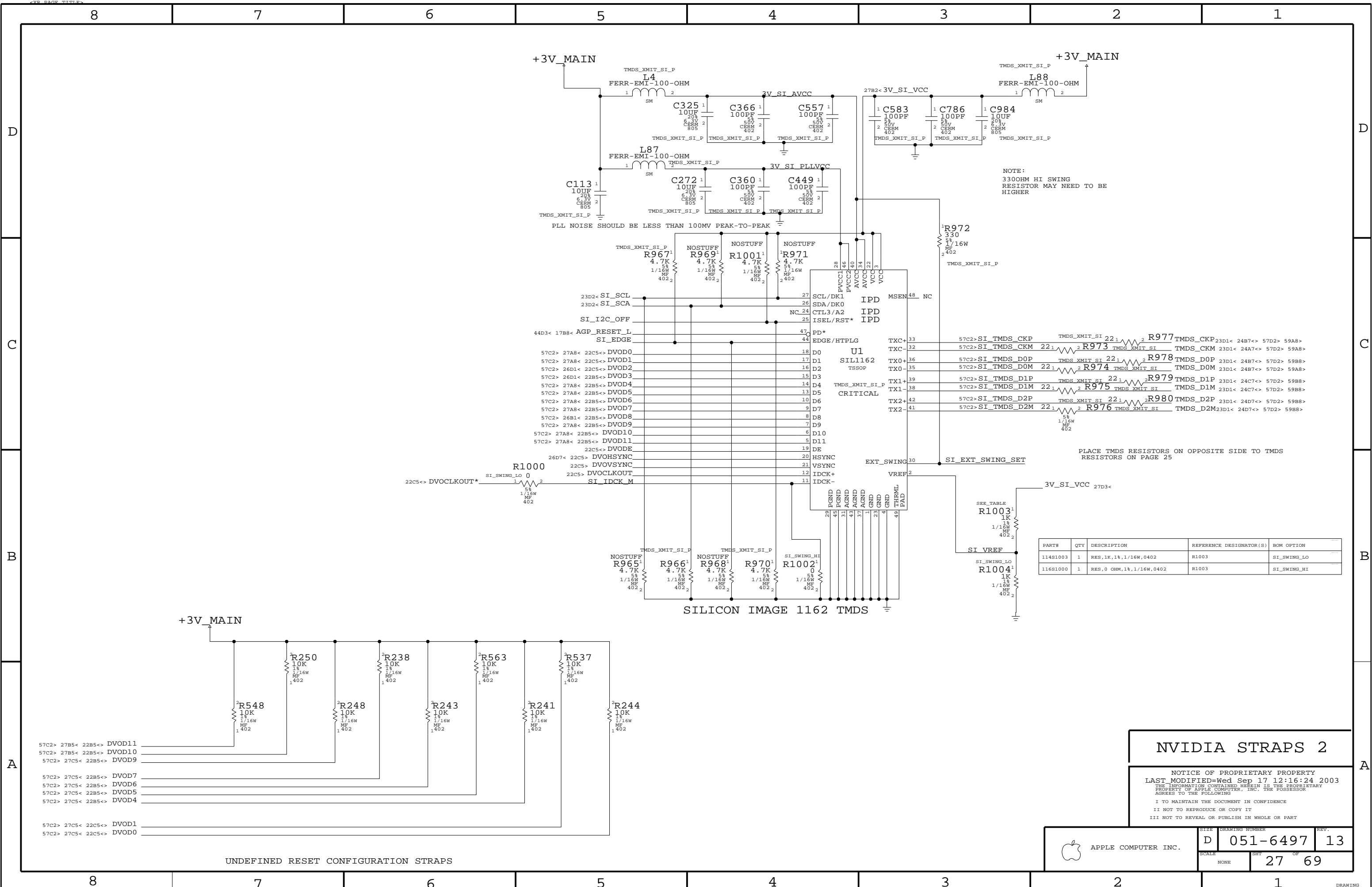
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NVIDIA STRAPS 2

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	NONE		27 69

D

C

B

A

D

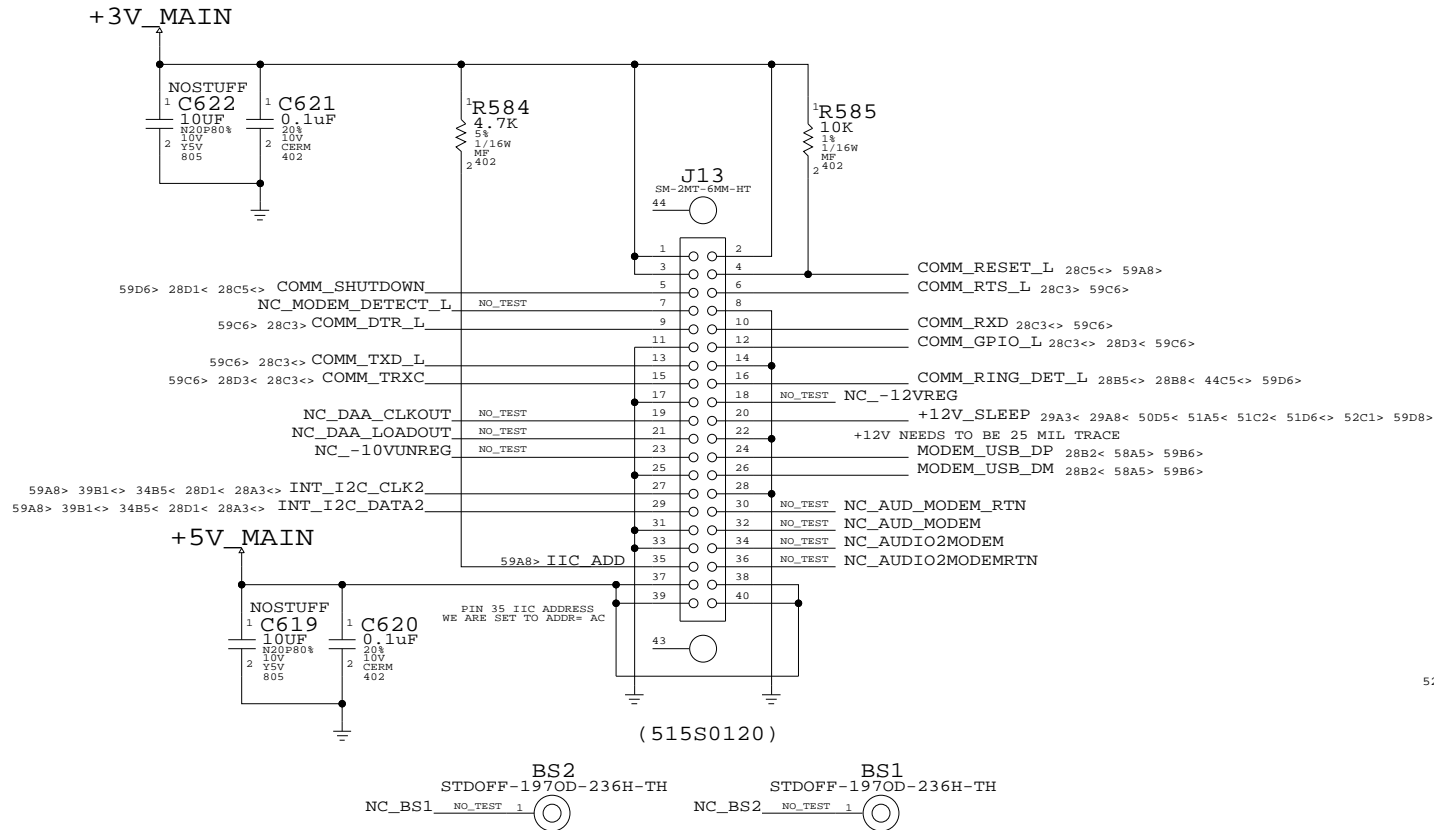
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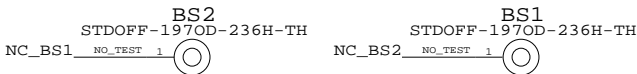
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MODEM BOARD CONNECTOR

(DASH II)



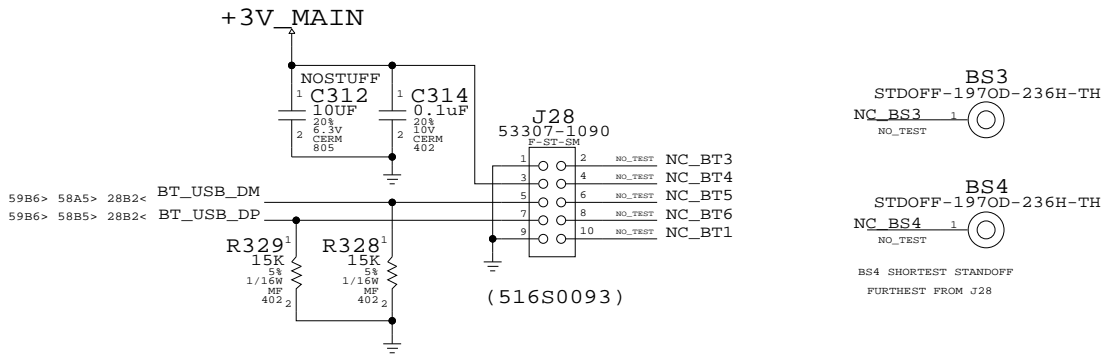
(515S0120)



MODEM STANDOFF SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
860-1034	2	STDOFF-19709-236H-TH	BS1,BS2		

BLUETOOTH CONNECTOR

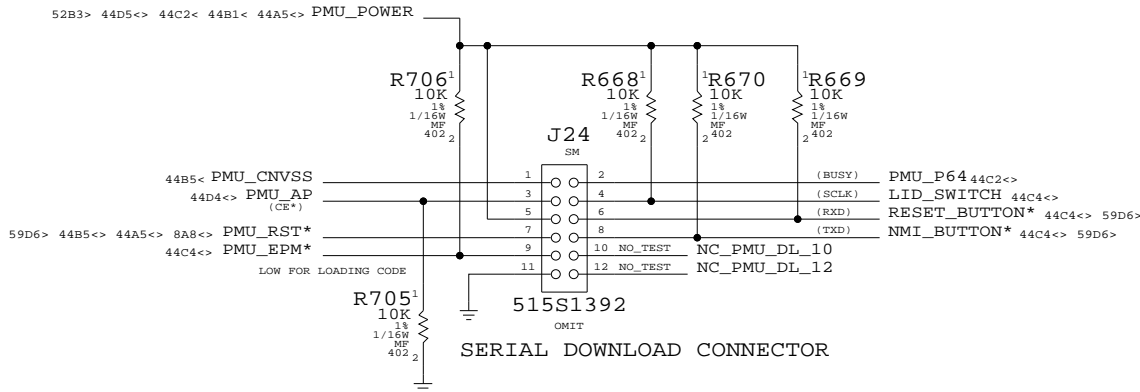


(516S0093)

BLUETOOTH CARD MOUNTING HARDWARE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
860-0170	1	STDOFF, BLUETOOTH, SHORT	BS4		
860-0171	1	STDOFF, BLUETOOTH, LONG	BS3		

SERIAL DOWNLOAD INTERFACE

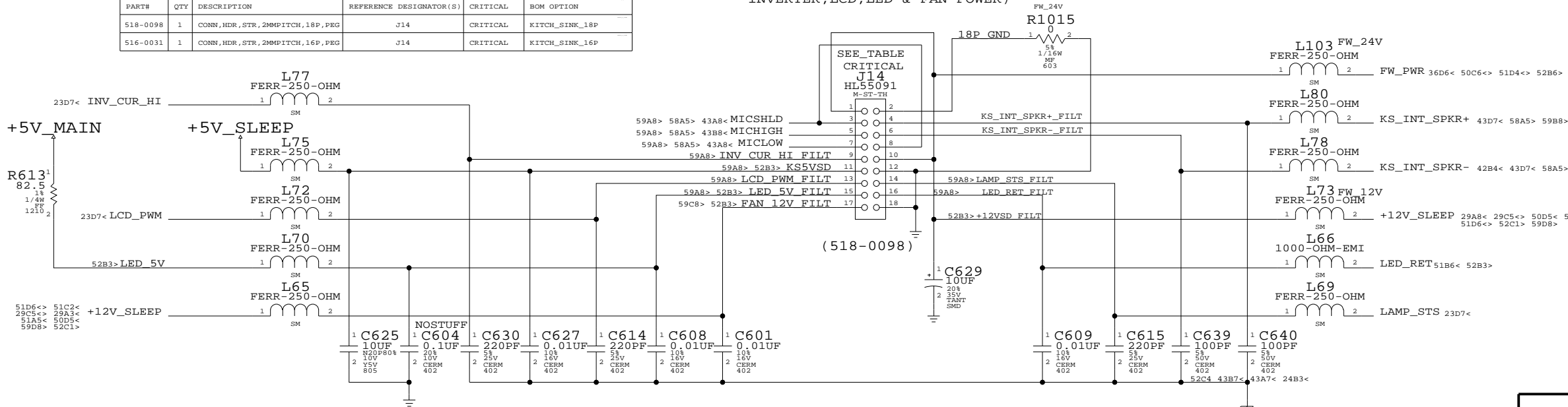


SERIAL DOWNLOAD CONNECTOR

'KITCHEN SINK' CONNECTOR

(MICROPHONE, INTERNAL SPEAKER CONNECTIONS
INVERTER, LCD, LED & FAN POWER)

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
518-0098	1	CONN,HDR,STR,2MMPITCH,18P,PEG	J14	CRITICAL	KITCH_SINK_18P
516-0031	1	CONN,HDR,STR,2MMPITCH,16P,PEG	J14	CRITICAL	KITCH_SINK_16P



(518-0098)

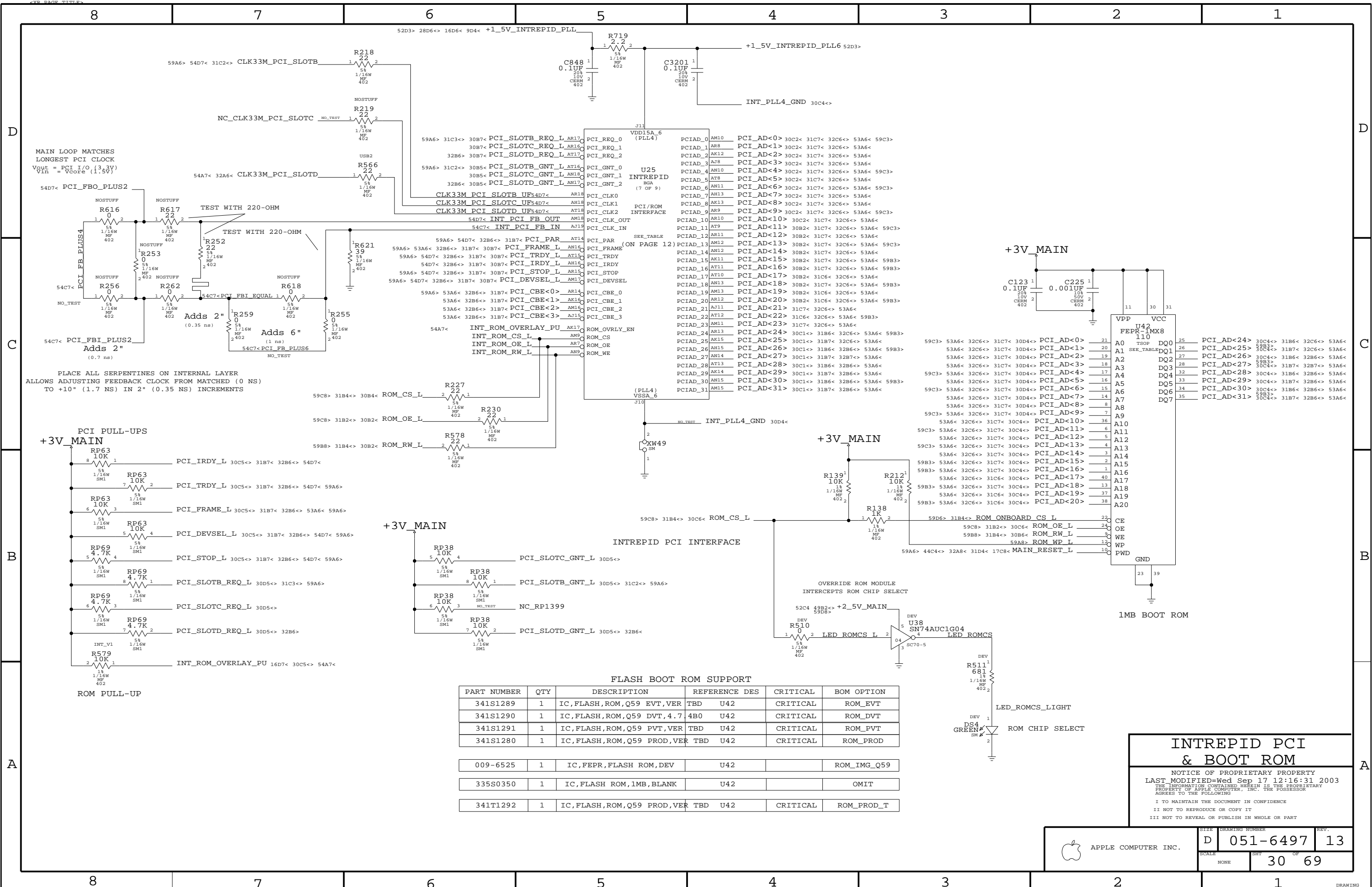
MODEM, BLUETOOTH, KITCHEN SINK & SERIAL DOWNLOAD

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NONE	29	69



PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
341S1289	1	IC, FLASH, ROM, Q59 EVT, VER	TBD U42	CRITICAL	ROM_EVT
341S1290	1	IC, FLASH, ROM, Q59 DVT, 4.7	4B0 U42	CRITICAL	ROM_DVT
341S1291	1	IC, FLASH, ROM, Q59 PVT, VER	TBD U42	CRITICAL	ROM_PVT
341S1280	1	IC, FLASH, ROM, Q59 PROD, VER	TBD U42	CRITICAL	ROM_PROD

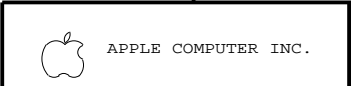
009-6525	1	IC, FEPR, FLASH ROM, DEV	U42		ROM_IMG_Q59
335S0350	1	IC, FLASH ROM, 1MB, BLANK	U42		OMIT
341T1292	1	IC, FLASH, ROM, Q59 PROD, VER	TBD U42	CRITICAL	ROM_PROD_T

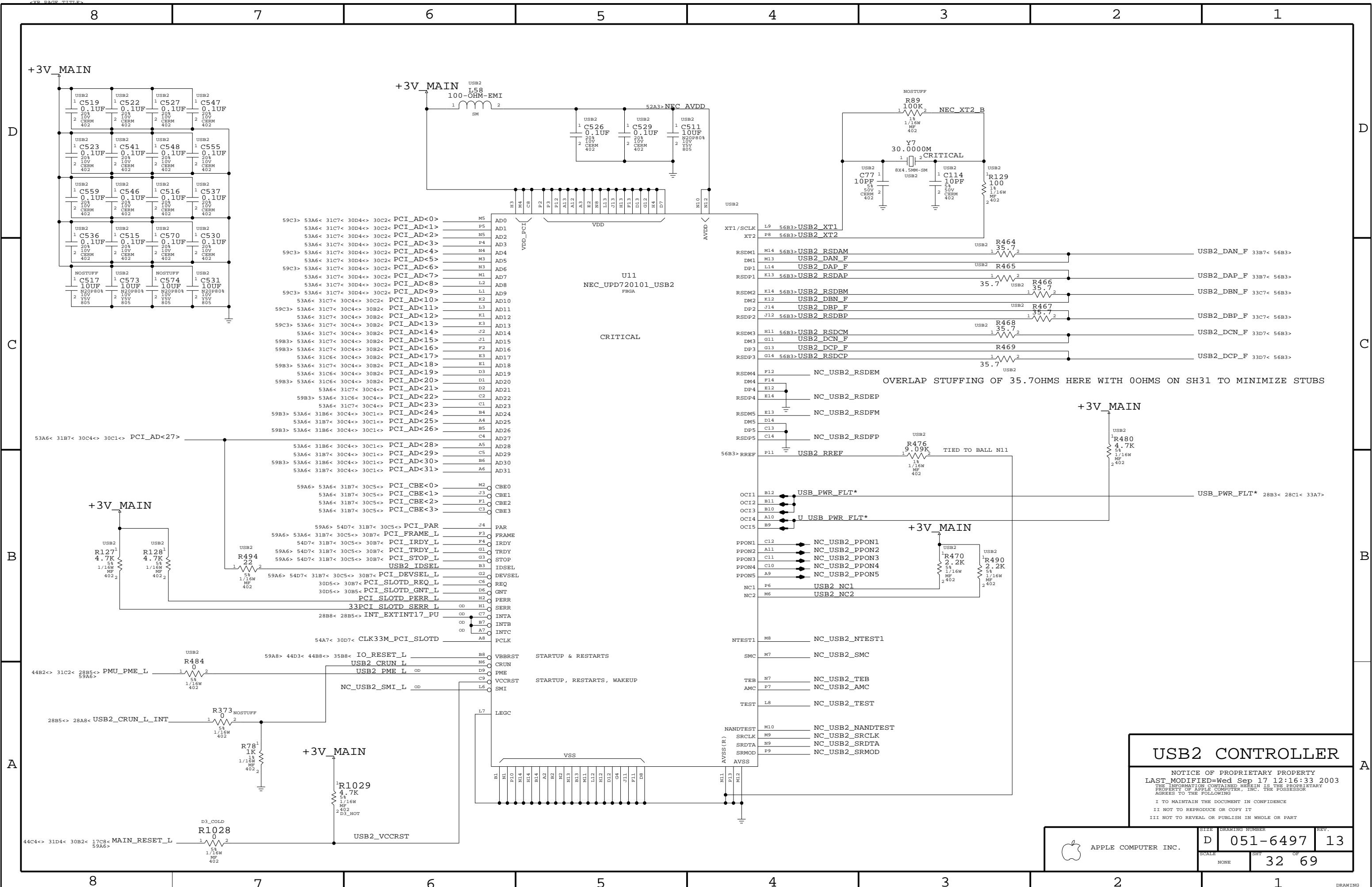
INTREPID PCI
& BOOT ROM

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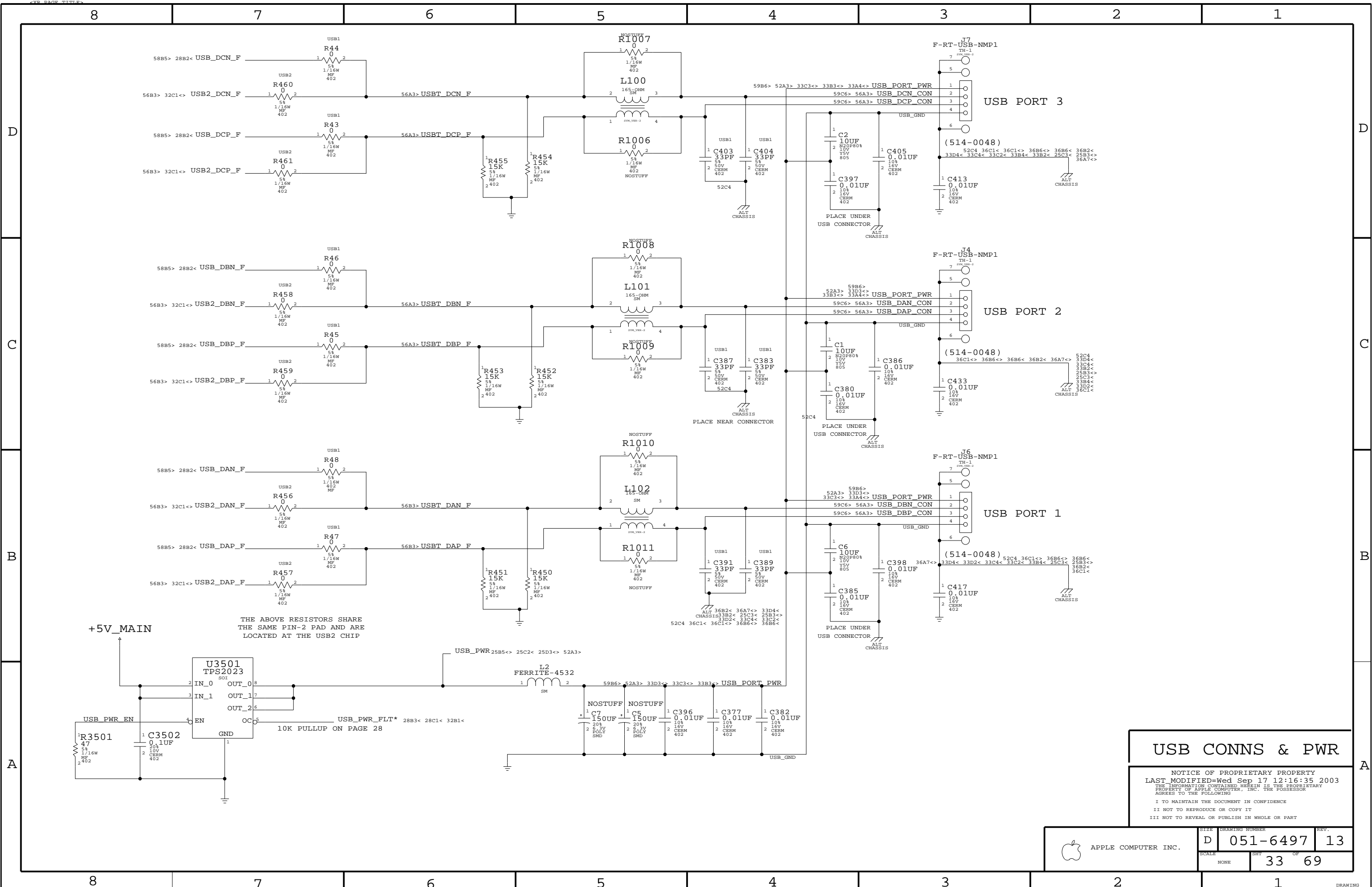
SIZE	DRAWING NUMBER	REV.
D	051-6497	13
SCALE	SHT	OF
NONE	30	69





USB2 CONTROLLER

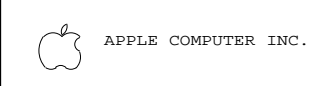
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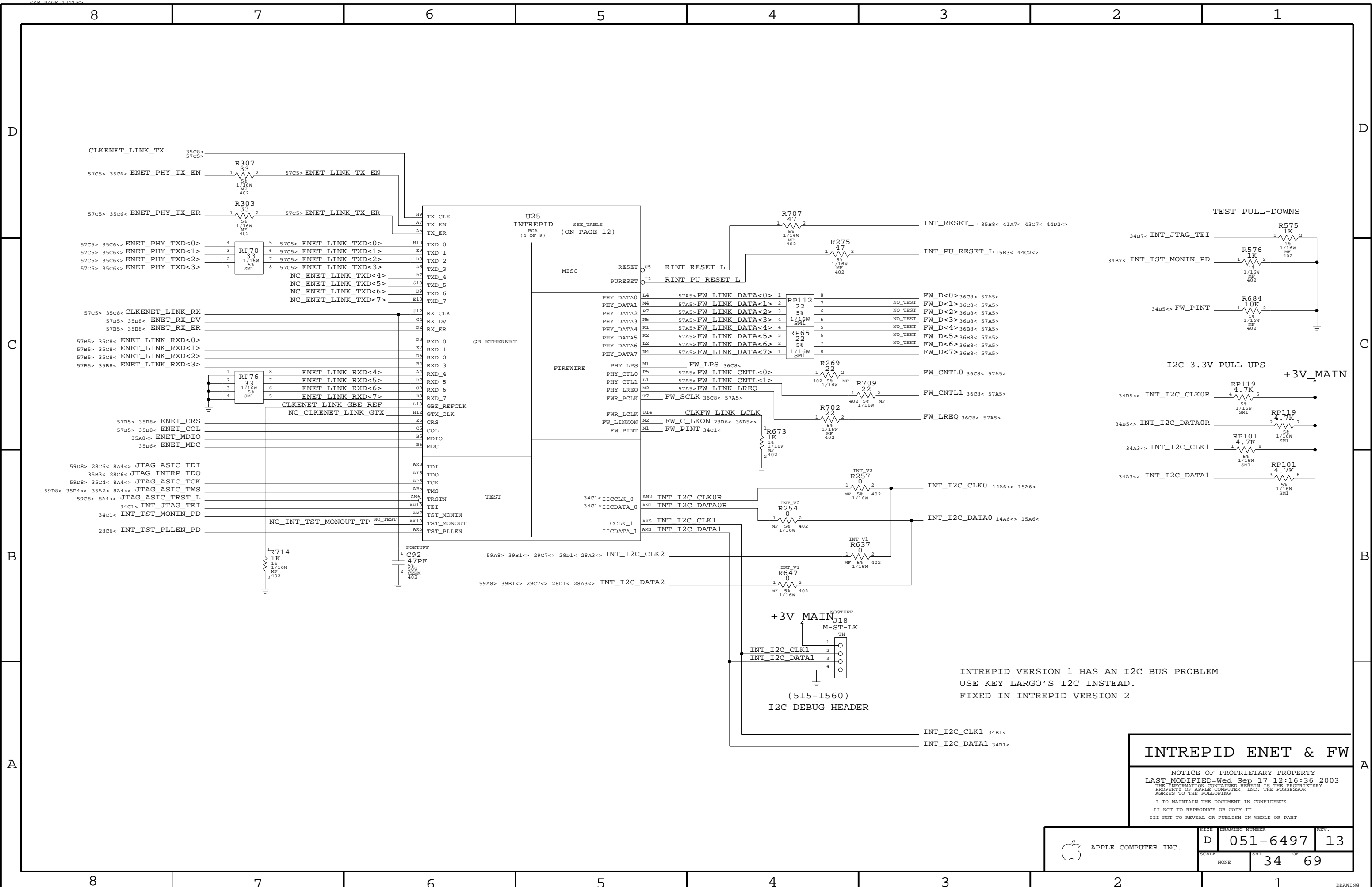


USB CONNS & PWR

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SIZE D	DRAWING NUMBER 051-6497	REV. 13
SCALE NONE	SHT 33	OF 69





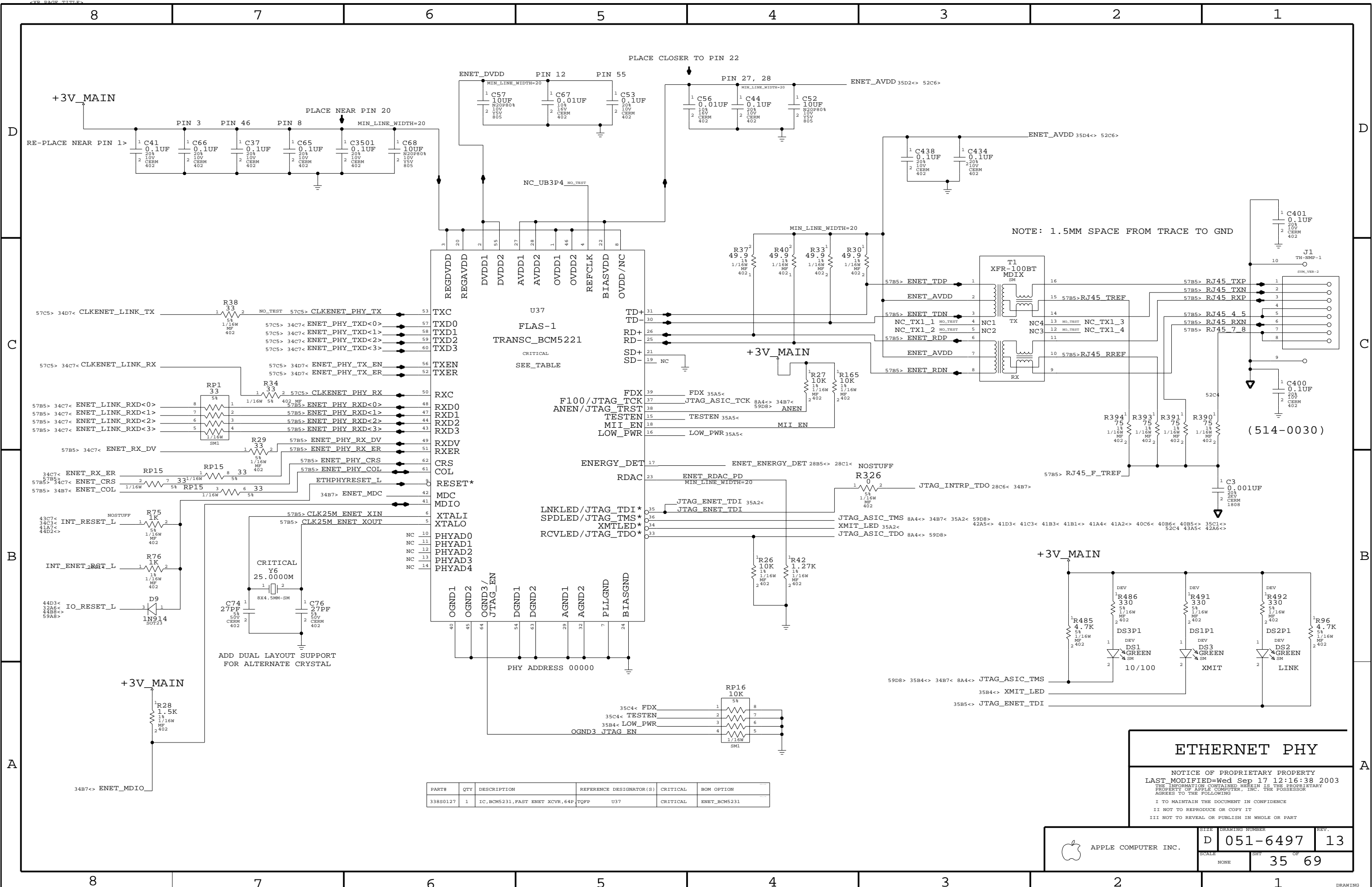
INTREPID ENET & FW

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6497	13
SCALE	SHT	34	OF 69
	NONE		

INTREPID VERSION 1 HAS AN I2C BUS PROBLEM
USE KEY LARGO'S I2C INSTEAD.
FIXED IN INTREPID VERSION 2

(515-1560)
I2C DEBUG HEADER



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S0127	1	IC, BCM5231, FAST ENET XCVR, 64P	TQFP U37	CRITICAL	ENET_BCM5231

ETHERNET PHY

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APPLE COMPUTER INC.

SIZE
D

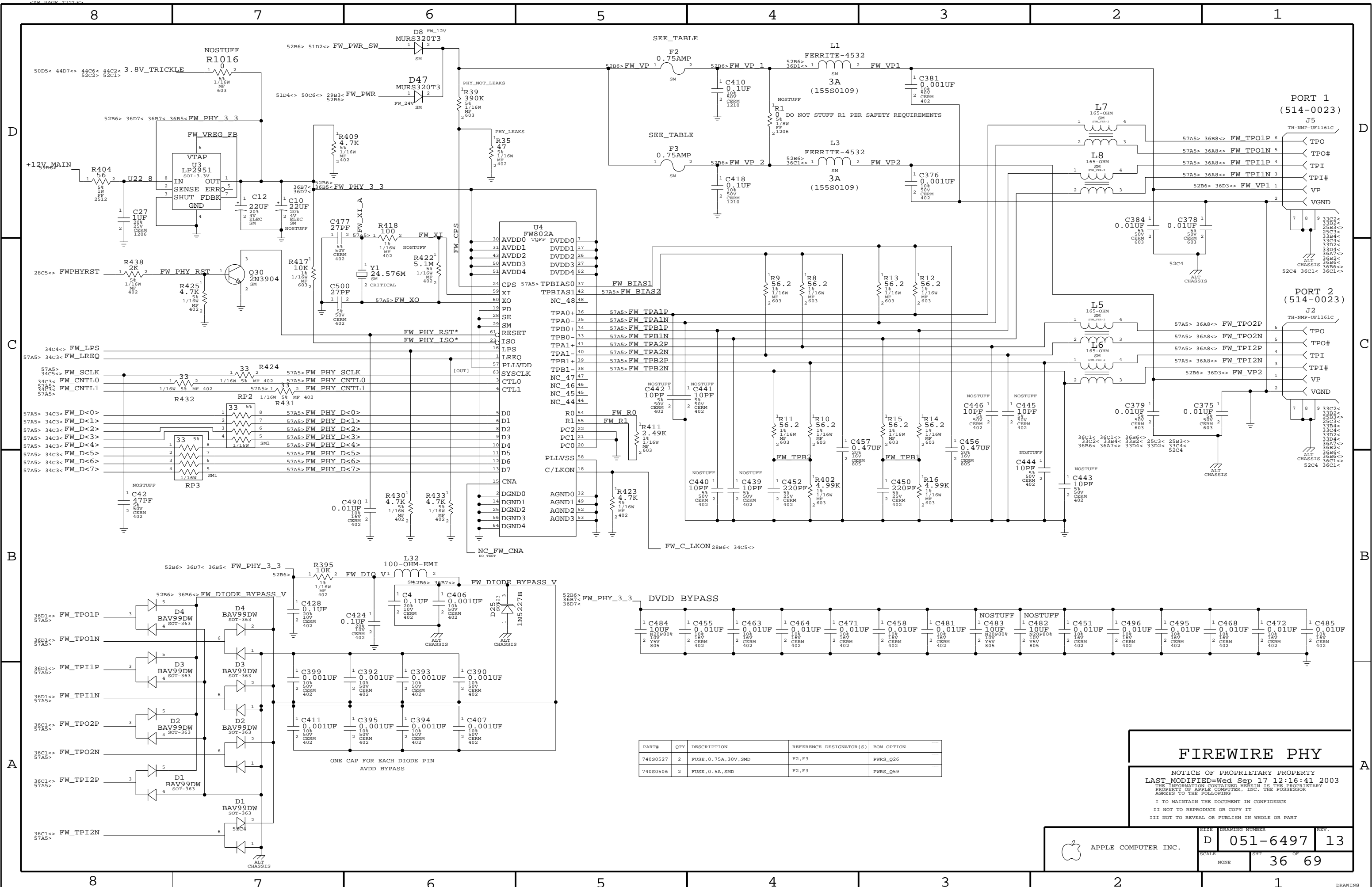
DRAWING NUMBER
051-6497

REV.
13

SCALE
NONE

SHT
35

OF
69



FIREWIRE PHY

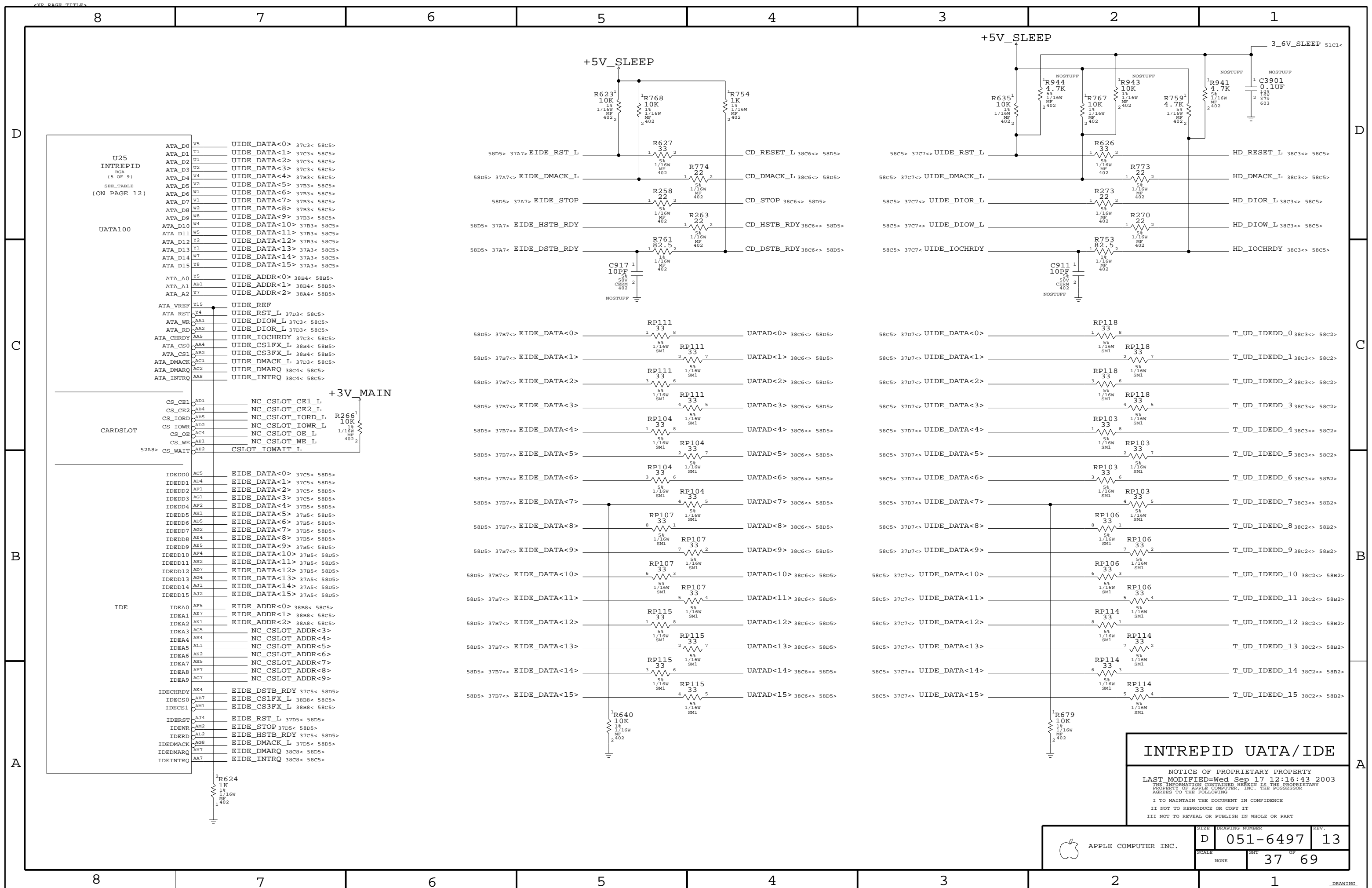
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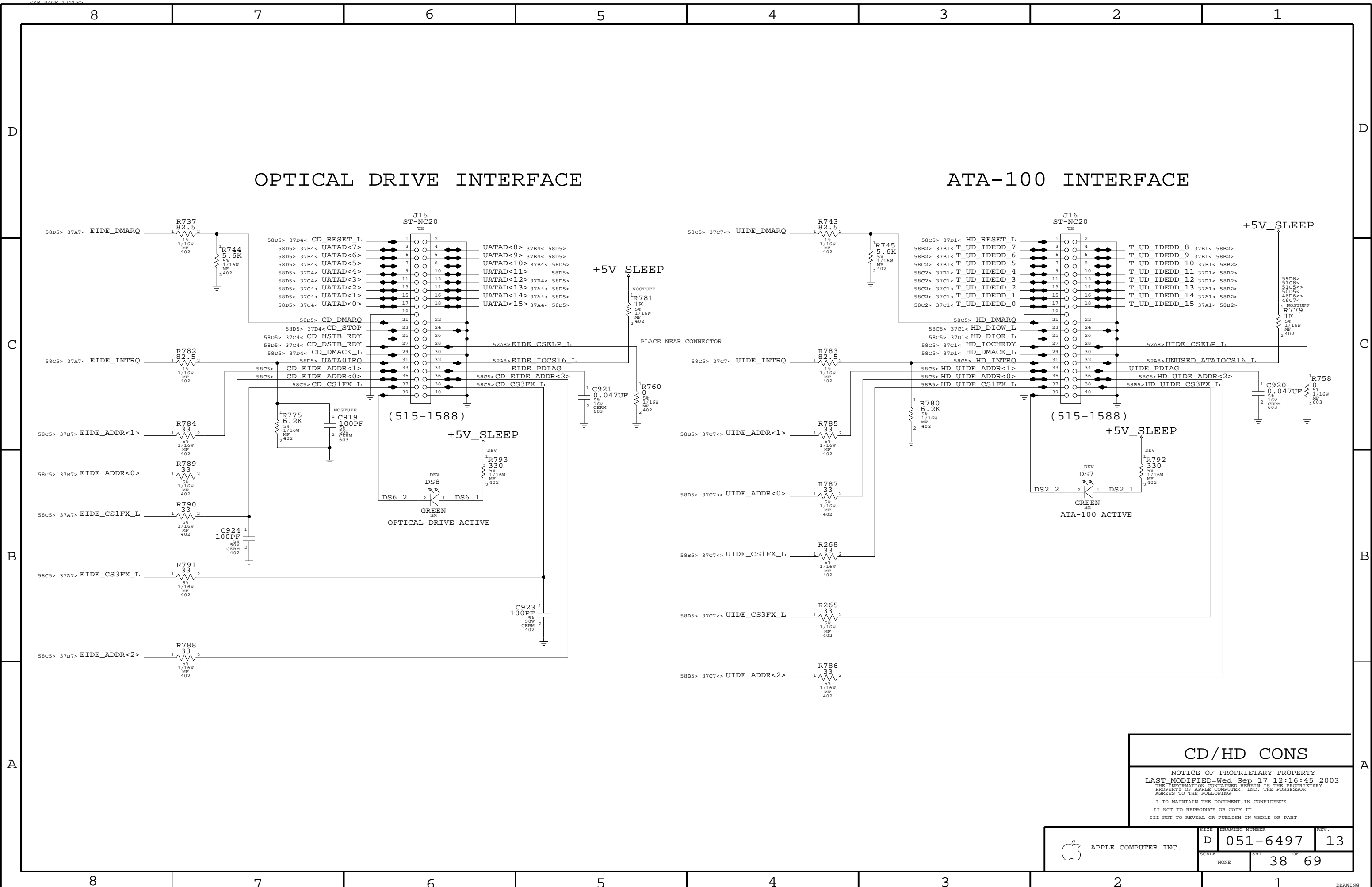
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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6497	13
SCALE	SHT	OF
NONE	36	69

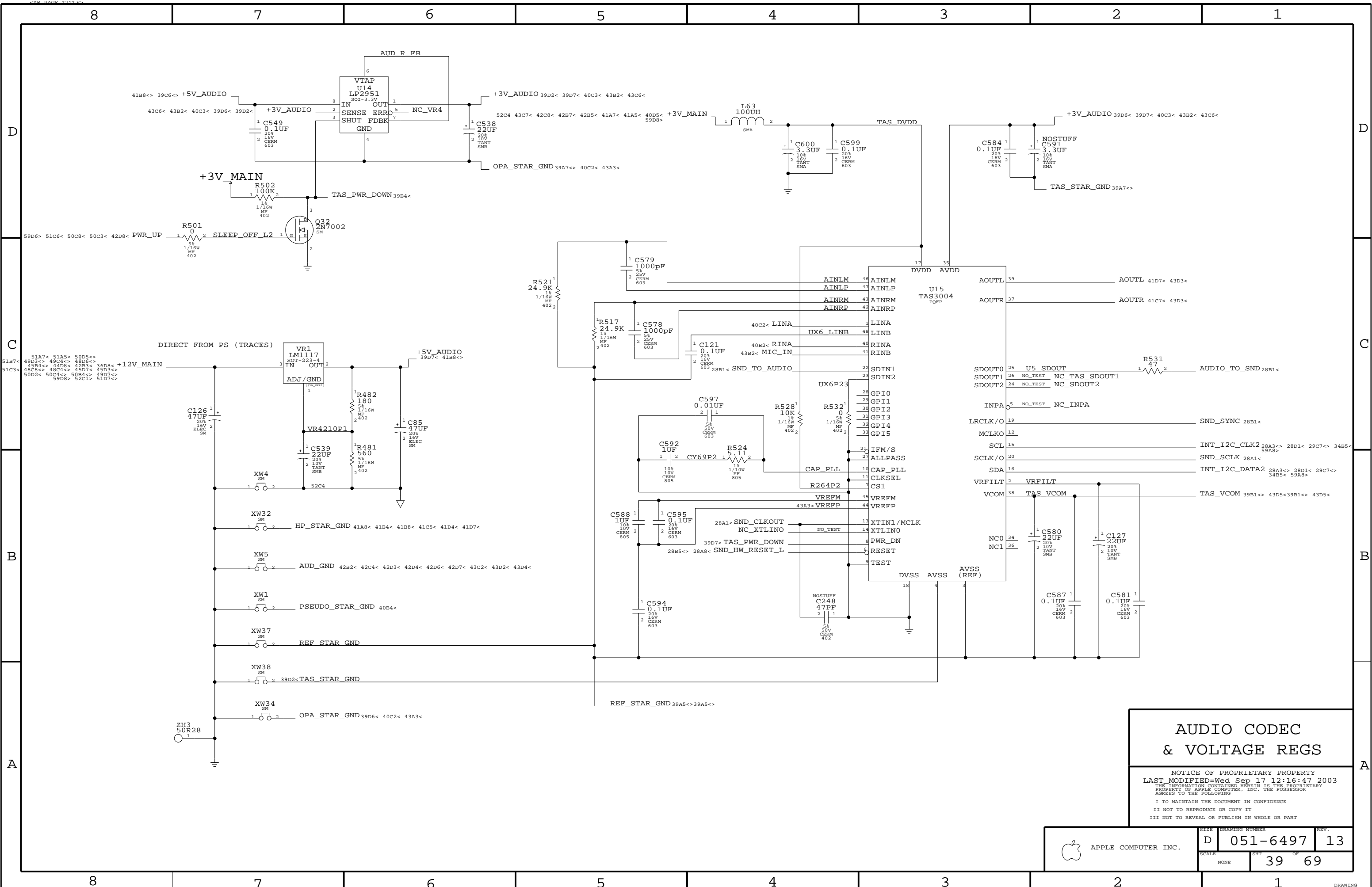




CD/HD CONS

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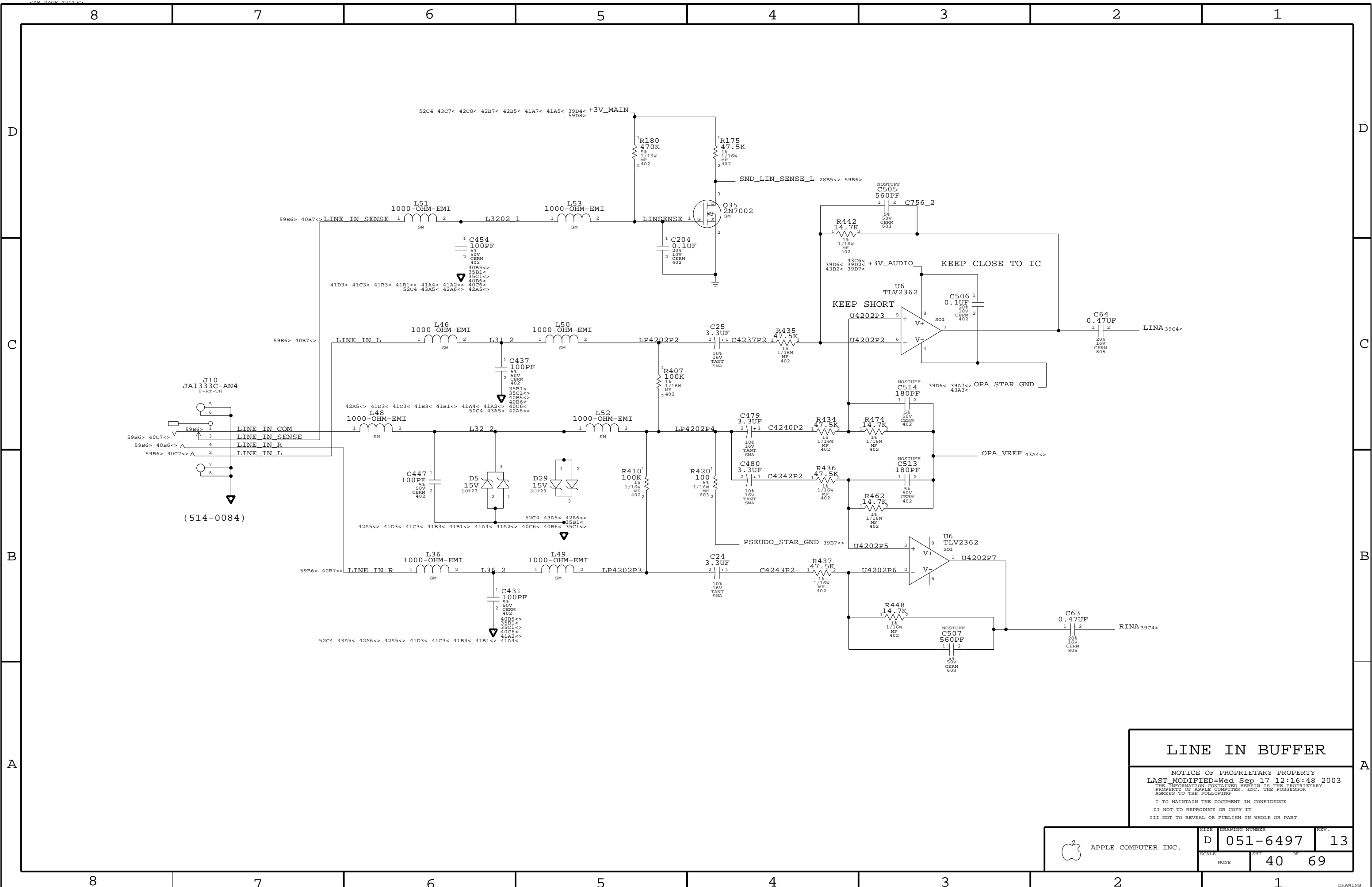
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6497	13
SCALE	SHT	OF	
	NONE	38	69



AUDIO CODEC
& VOLTAGE REGS

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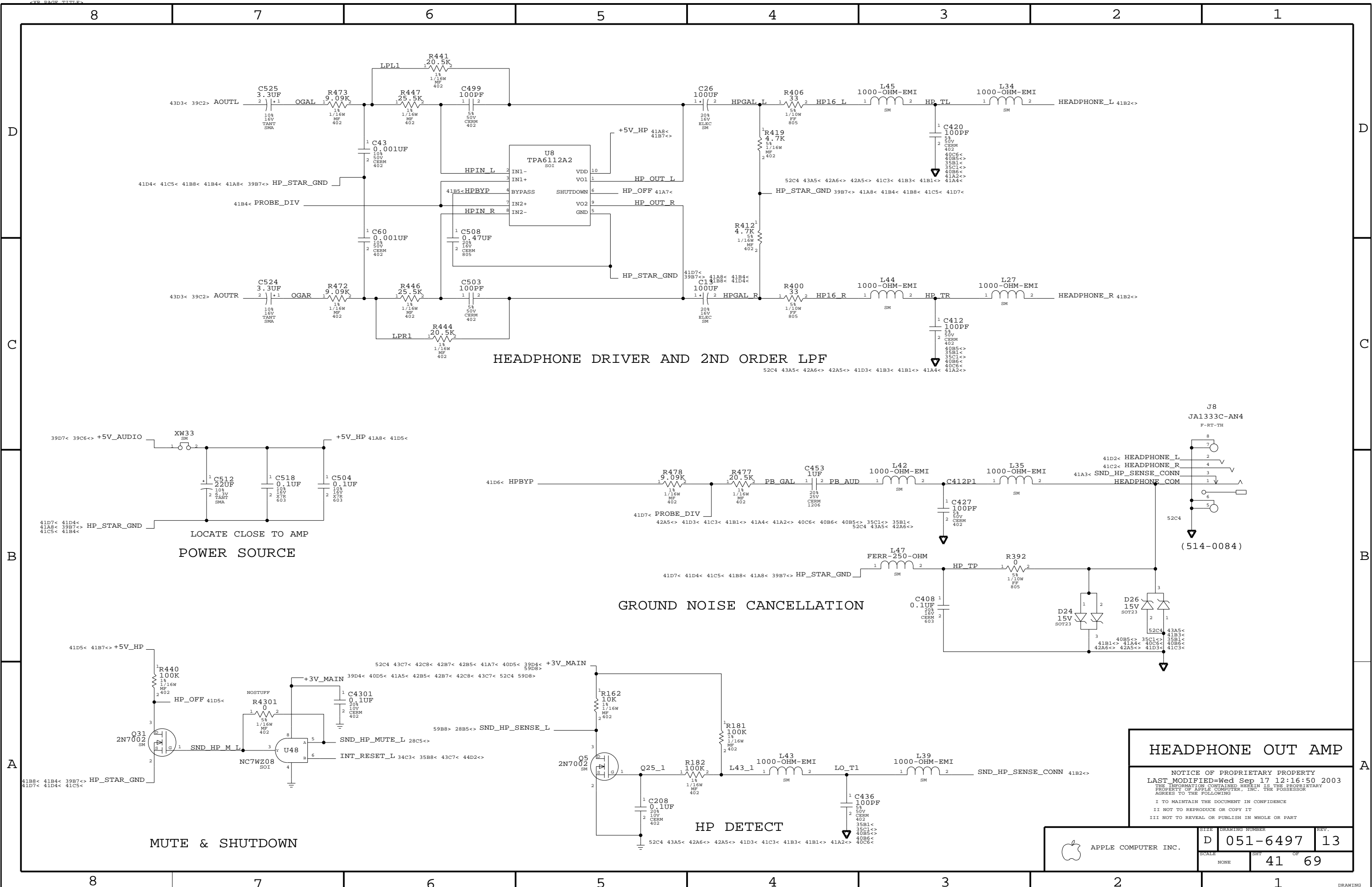
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6497	13
SCALE		SHT	OF
NONE		39	69



LINE IN BUFFER

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6497	13
	SCALE	SHT	OF
	NONE	40	69



HEADPHONE DRIVER AND 2ND ORDER LFP

POWER SOURCE

GROUND NOISE CANCELLATION

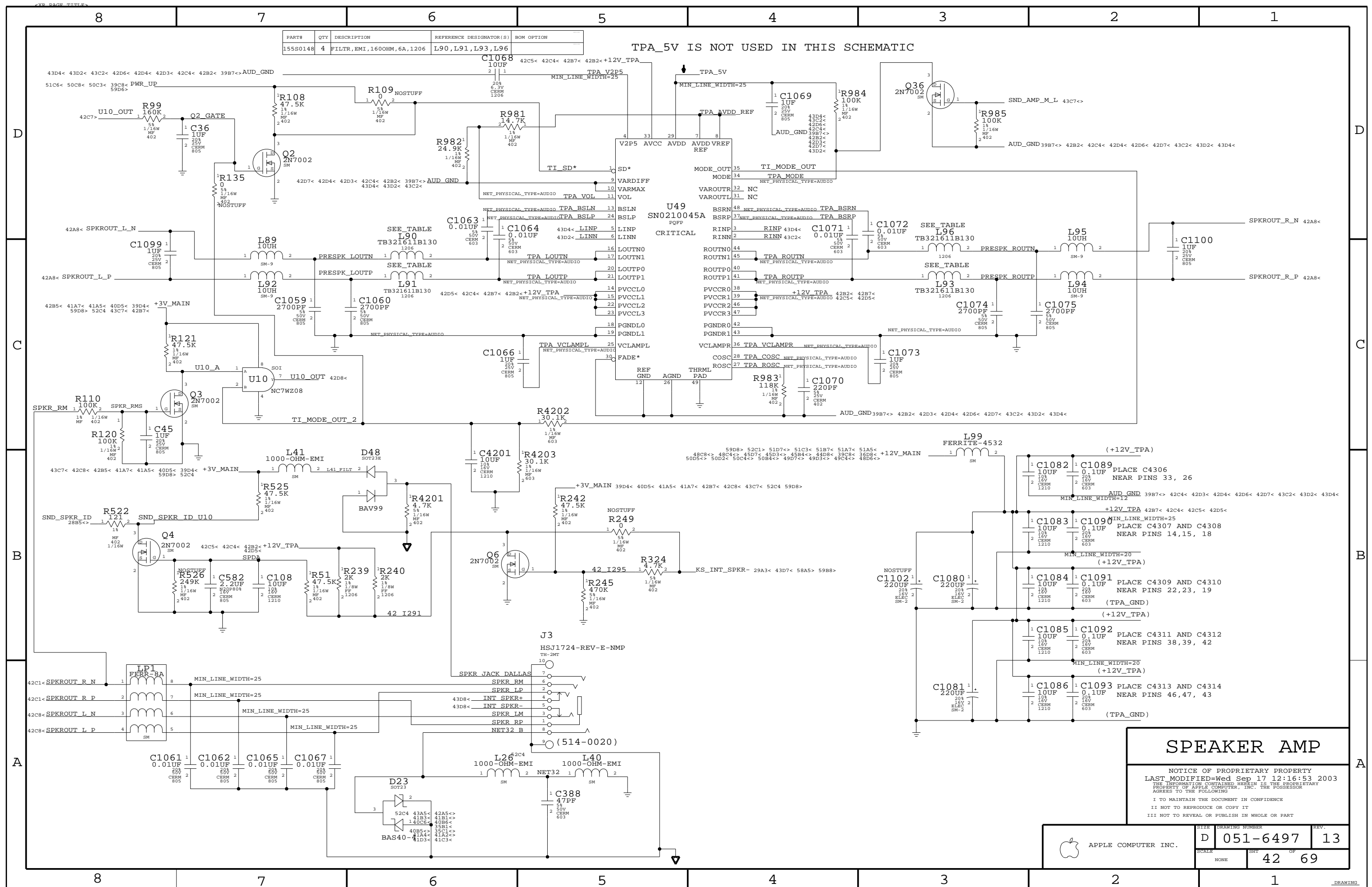
HP DETECT

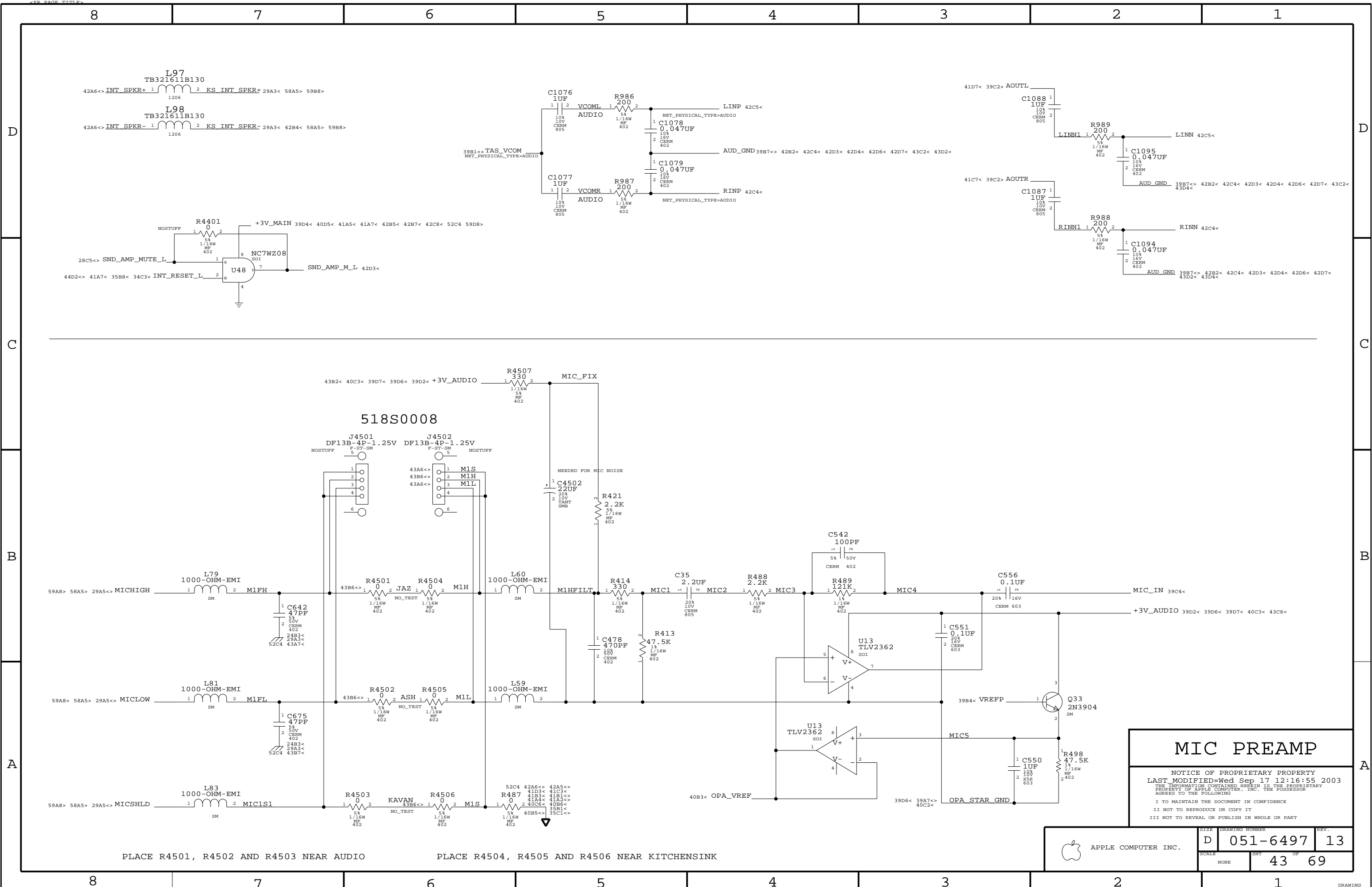
MUTE & SHUTDOWN

HEADPHONE OUT AMP

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6497	13
SCALE	SHT		OF
	41		69





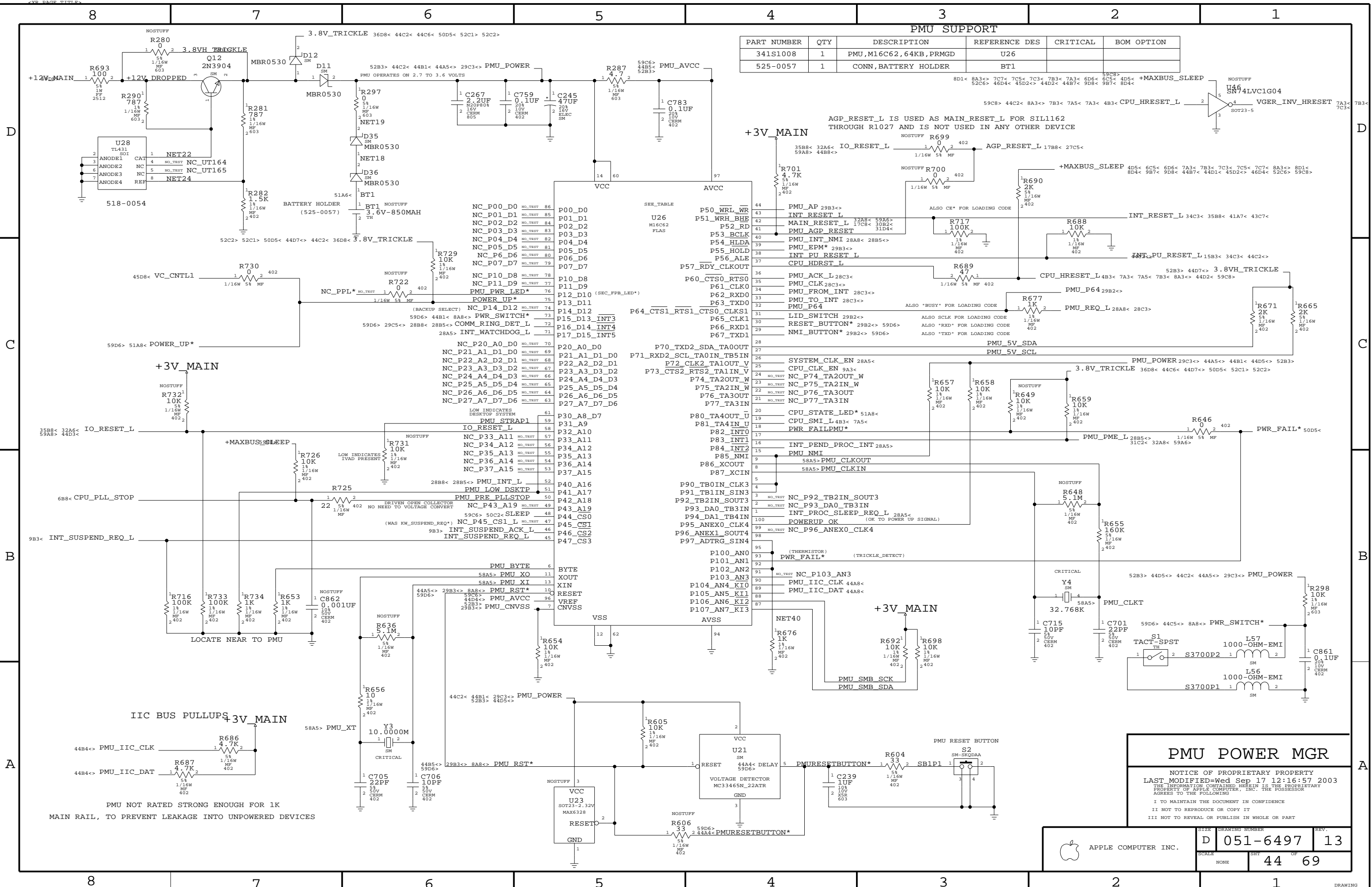
PLACE R4501, R4502 AND R4503 NEAR AUDIO

PLACE R4504, R4505 AND R4506 NEAR KITCHENSINK

MIC PREAMP

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6497	13
SCALE	SHT	OF	
	NONE	43	69



D

C

B

A

D

C

B

A

D

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A

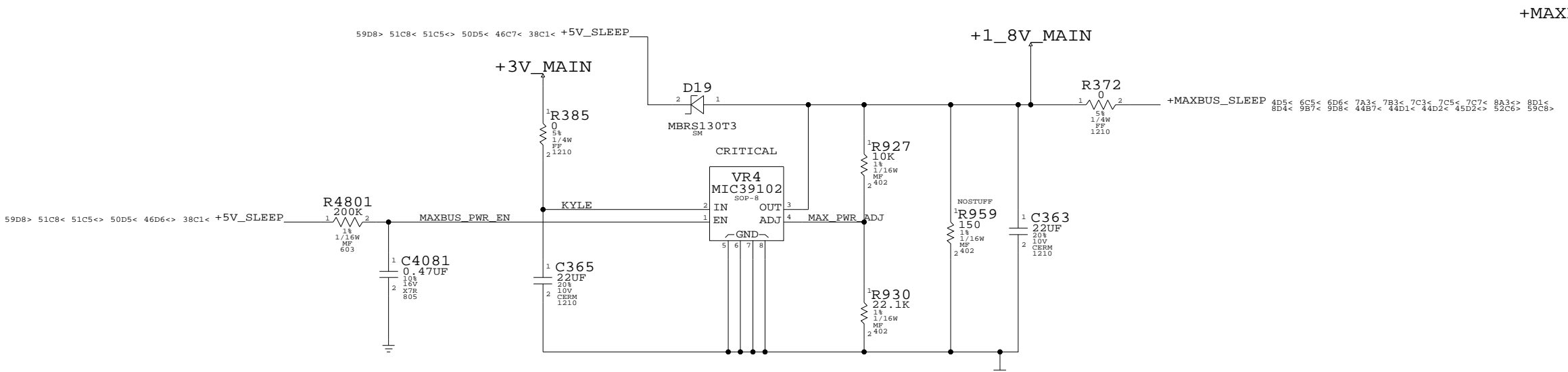
D

C

B

A

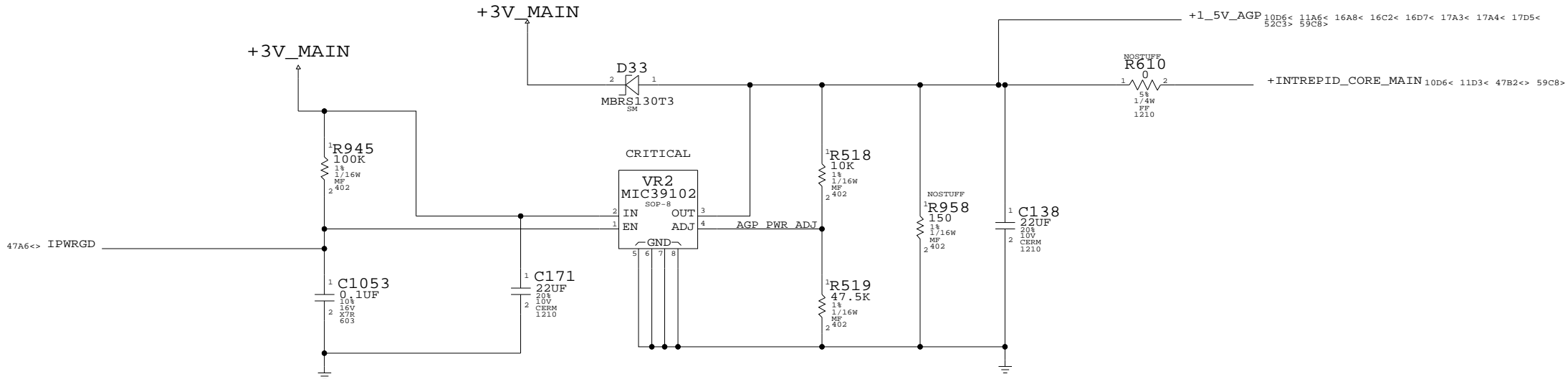
INTREPID MAXBUS & CPU OVDD POWER CONVERTER
(OFF DURING SLEEP)



MAXBUS I/O SUPPLY SUPPORT					
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
114S4754	1	RES,FF,47.5K-OHM,1%	R930		MAXIO_1'50V
114S3014	1	RES,FF,30.1K-OHM,1%	R930		MAXIO_1'65V
114S2674	1	RES,FF,26.7K-OHM,1%	R930		MAXIO_1'70V
114S2214	1	RES,FF,22.1K-OHM,1%	R930		MAXIO_1'80V

+1_5V_AGP 1.5V, +/-5%, .6W


AGP I/O POWER CONVERTER



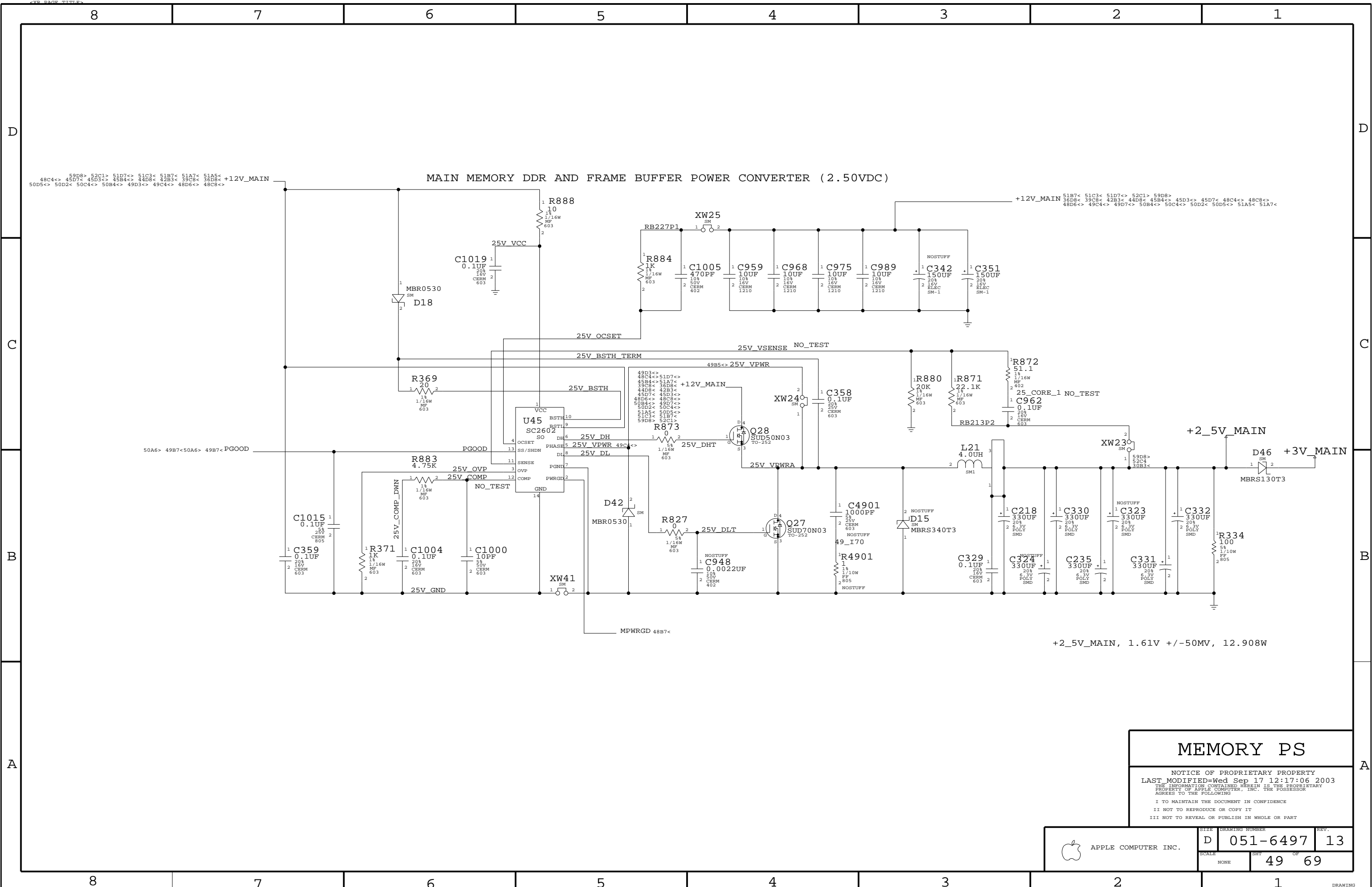
AGP I/O SUPPLY SUPPORT					
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
114S4754	1	RES,FF,47.5K-OHM,1%	R519		AGPIO_1'50V
114S3014	1	RES,FF,30.1K-OHM,1%	R519		AGPIO_1'65V
114S2674	1	RES,FF,26.7K-OHM,1%	R519		AGPIO_1'70V
114S2214	1	RES,FF,22.1K-OHM,1%	R519		AGPIO_1'80V

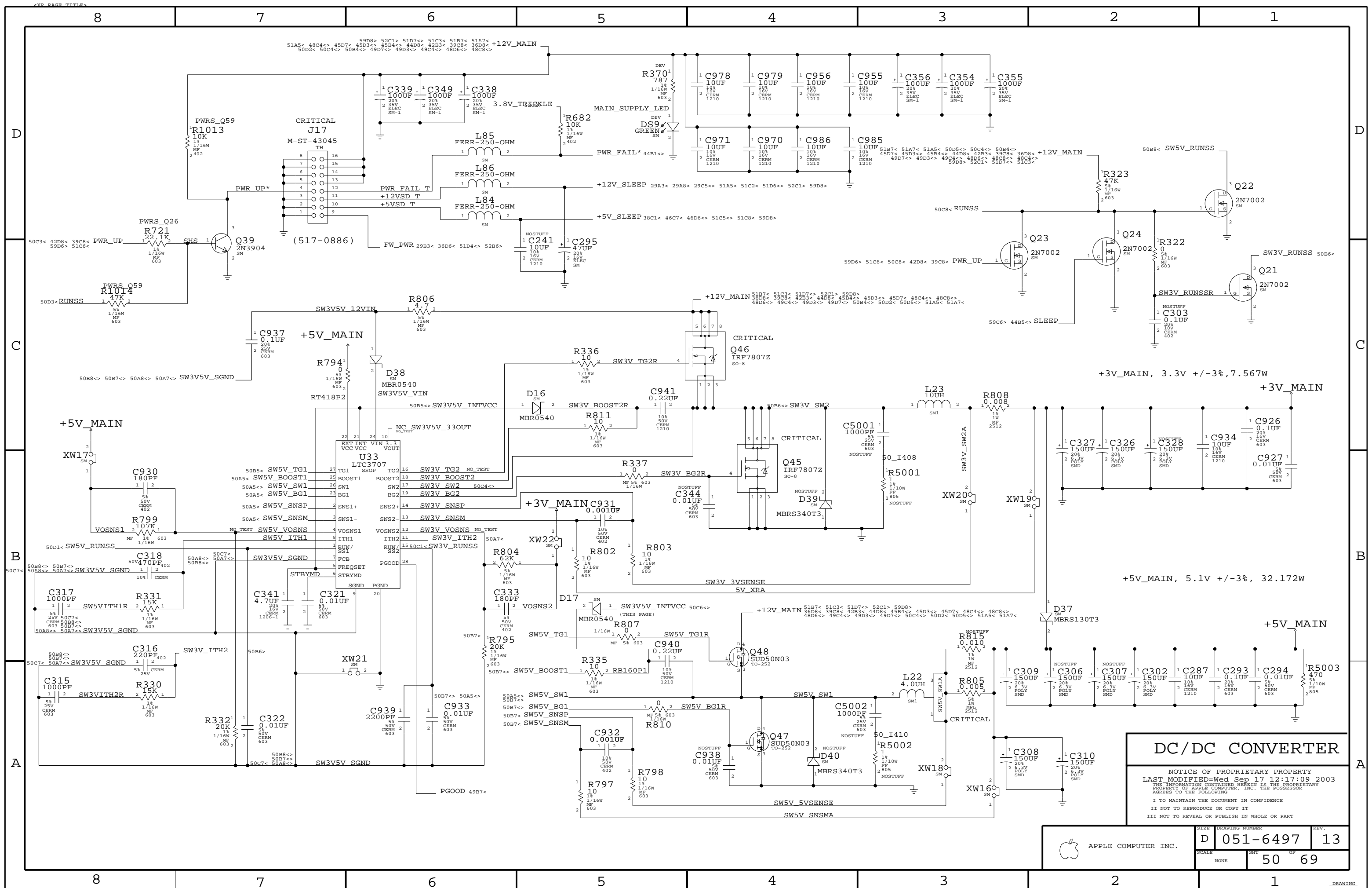
CPU & AGP VREGS

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6497	13
SCALE	SHT	OF
NONE	46	69





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[illegible]

