

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

PHOENIX
SACRAMENTO
10A PLUS
CS BUILD

2008/02/25

DATE	CHANGE NO.	REV
1	2	

DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE = 3		VER :		
FILE NAME : XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX			

INVENTEC			
TITLE Phoenix/Sacramento 10A PLUS COVER PAGE			
SIZE A3	CODE CS	DOC. NUMBER 1310A21750	REV X01
SHEET 1		OF 53	

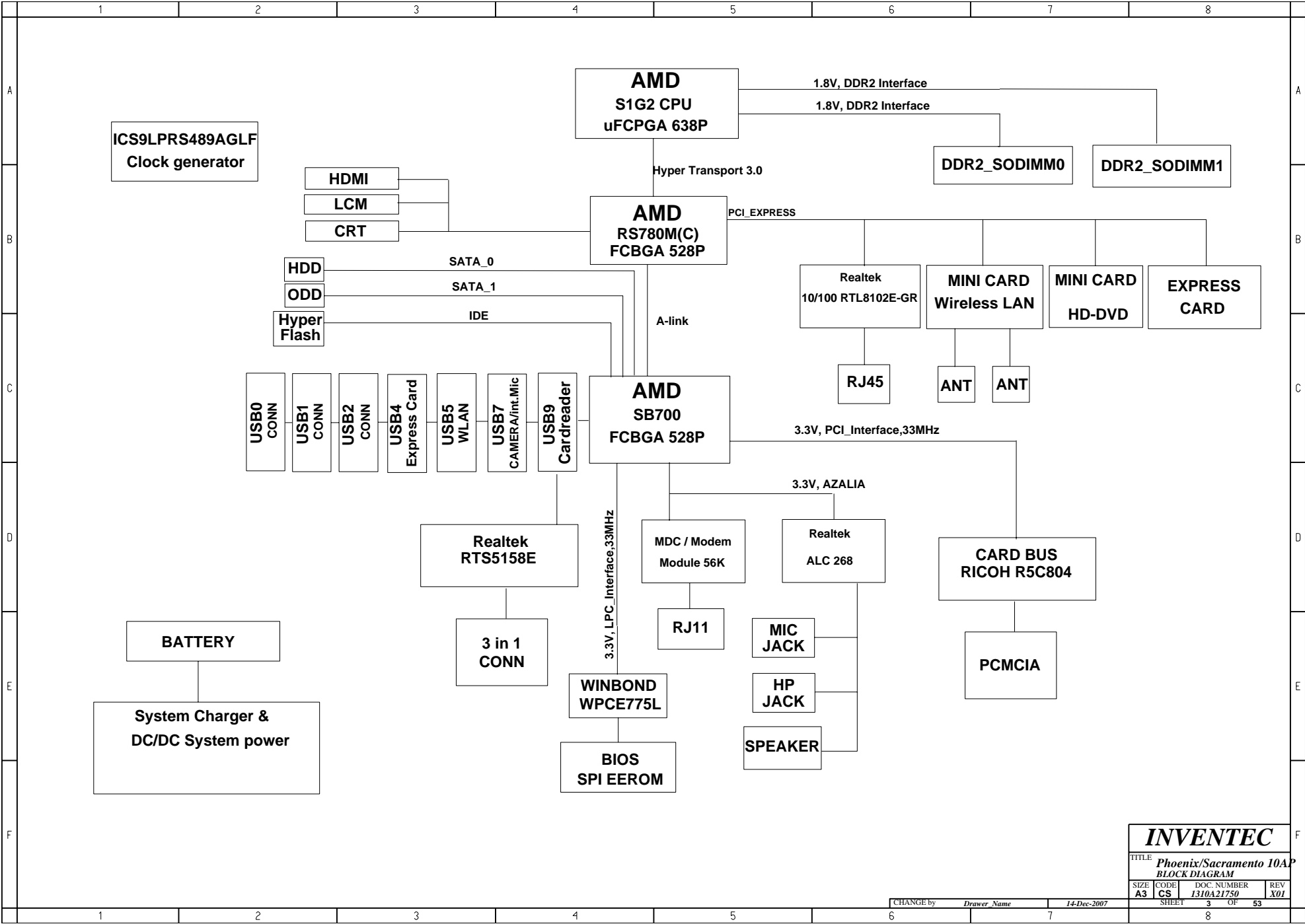
	1	2	3	4	5	6	7	8	
--	---	---	---	---	---	---	---	---	--

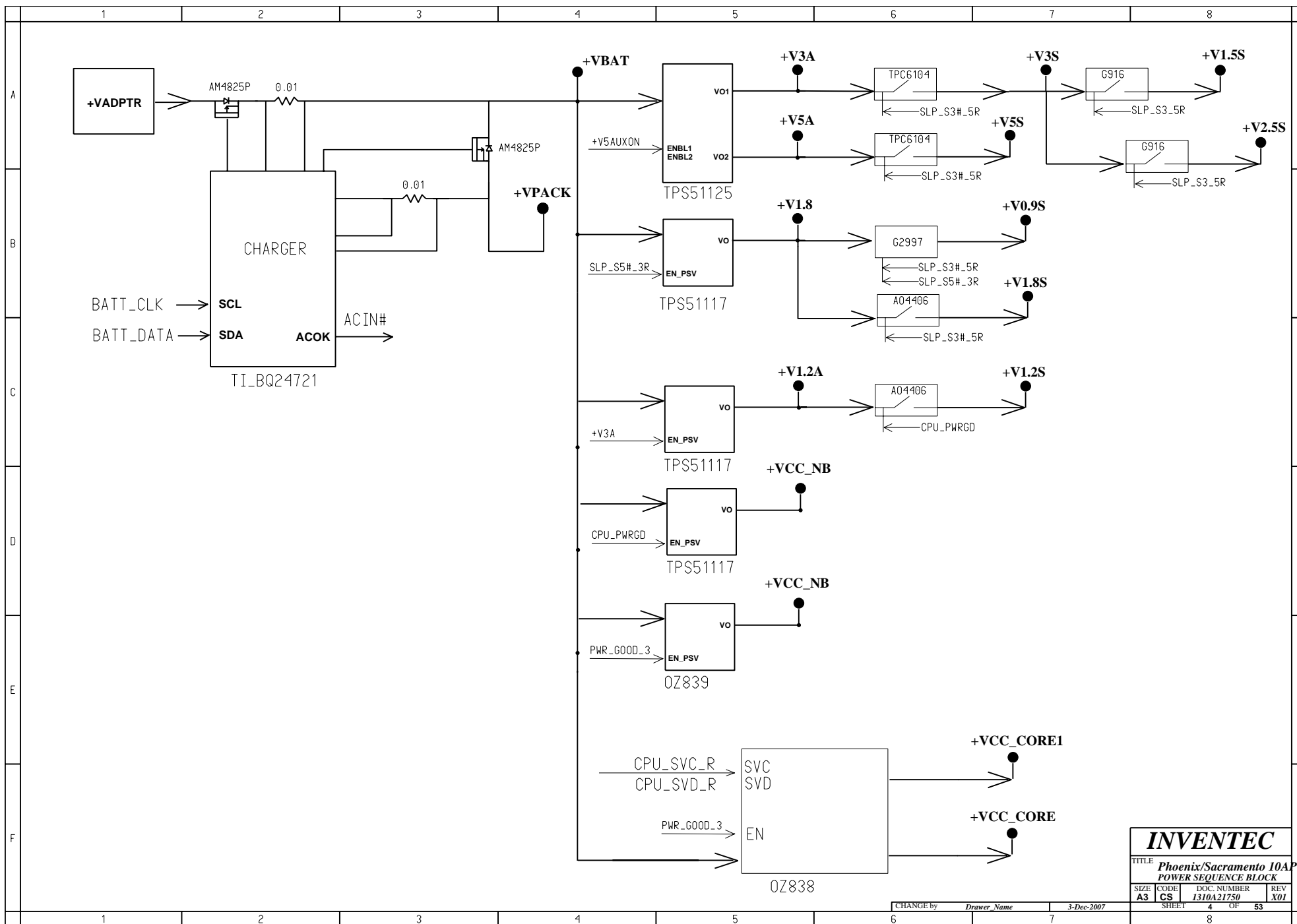
	1	2	3	4	5	6	7	8	
A	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> TABLE OF CONTENTS </div>								A
B									B
C									C
D									D
E									E
F									F

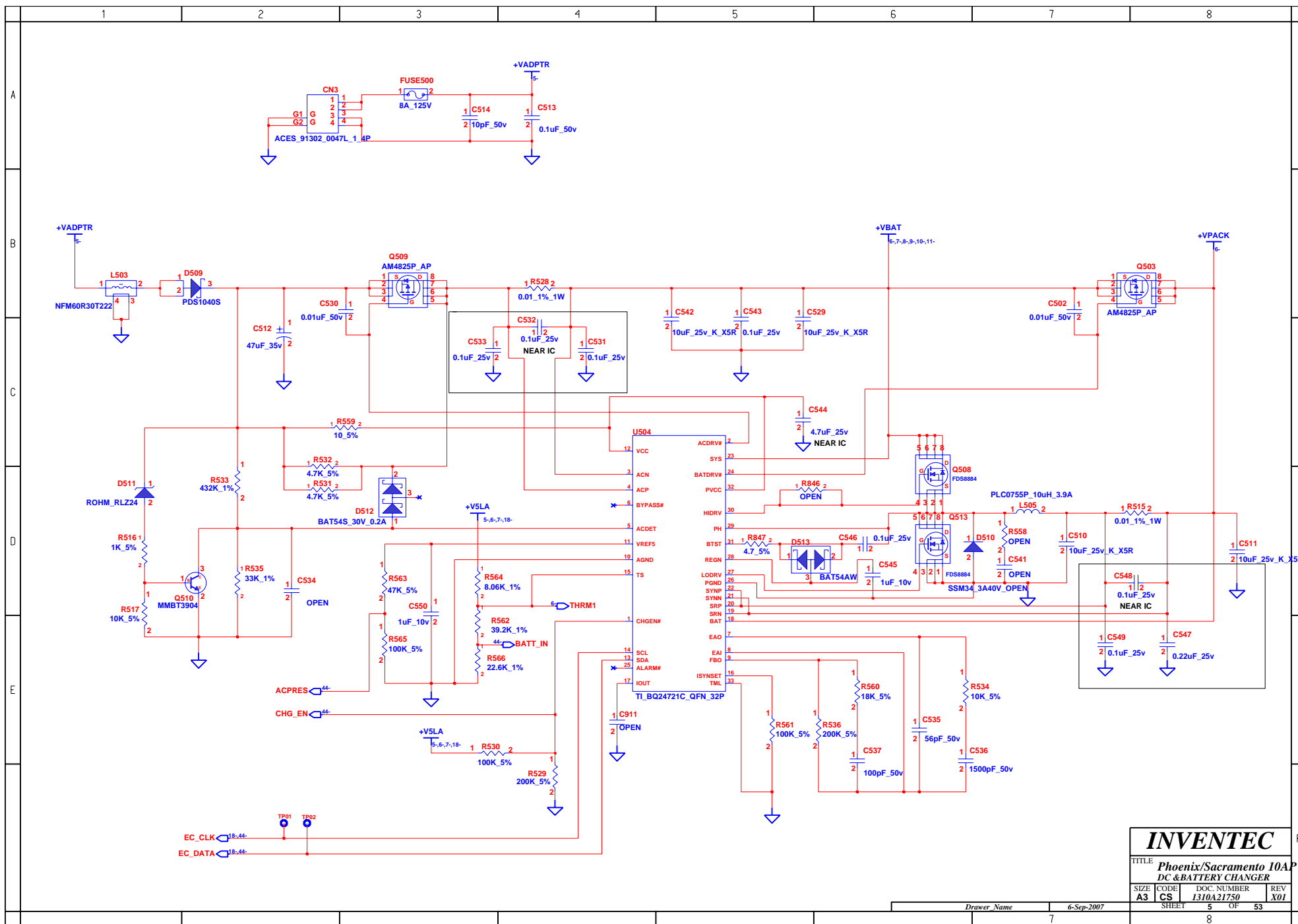
PAGE	PAGE
1 COVER PAGE	31 S/B 3/4
2 INDEX	32 S/B 4/4
3 BLOCK DIAGRAM	33 CARDBUS CONTROLLER
4 POWER SEQUENCE BLOCK	34 PCMCIA CONN
5-12 SYSTEM POWER	35 EXPRESS CARD CONN
13 CLOCK GENERATOR	36 3 IN 1 CARD READER
14 CPU 1/4	37 LAN CONTROLLER
15 CPU 2/4	38 RJ45 & TRANSFORMER
16 CPU 3/4	39 WLAN & HD_DVD
17 CPU 4/4	40 SATA HDD & ODD CONN
18 FAN & THERMAL CONTROLLER	41 CAMERA CONN
19 N/B 1/4	42 HYPER FLASH
20 N/B 2/4	43 USB CONN
21 N/B 3/4	44 KBC
22 N/B 4/4	45 K/B & TP/B CONN
23 DDR2 DIMM0	46 AZALIA CODEC
24 DDR2 DIMM1	47 AUDIO AMP & MIC & HP
25 DDR TERMINATIONS	48 MDC 1.5 CONN
26 CRT CONN	49 LED & HOTKEY/B CONN
27 HDMI CONN	50 EMI CAPACITOR
28 LVDS CONN	51 KILL SWITCH& LID SWITCH
29 S/B 1/4	52 SCREW HOLE
30 S/B 2/4	53 DAUGHTER BOARD

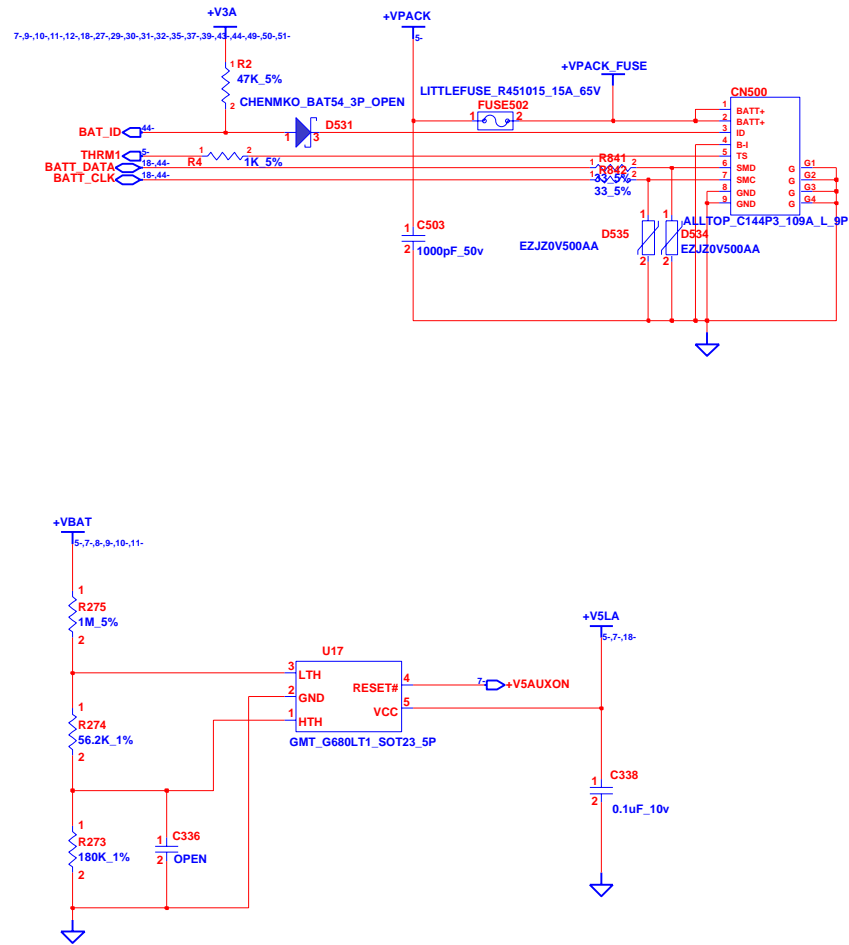
INVENTEC			
TITLE Phoenix/Sacramento 10A			
INDEX			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01
CHANGE by <i>Drawer Name</i>		28-Sep-2007	
SHEET		2	OF 53

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

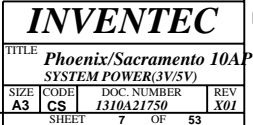


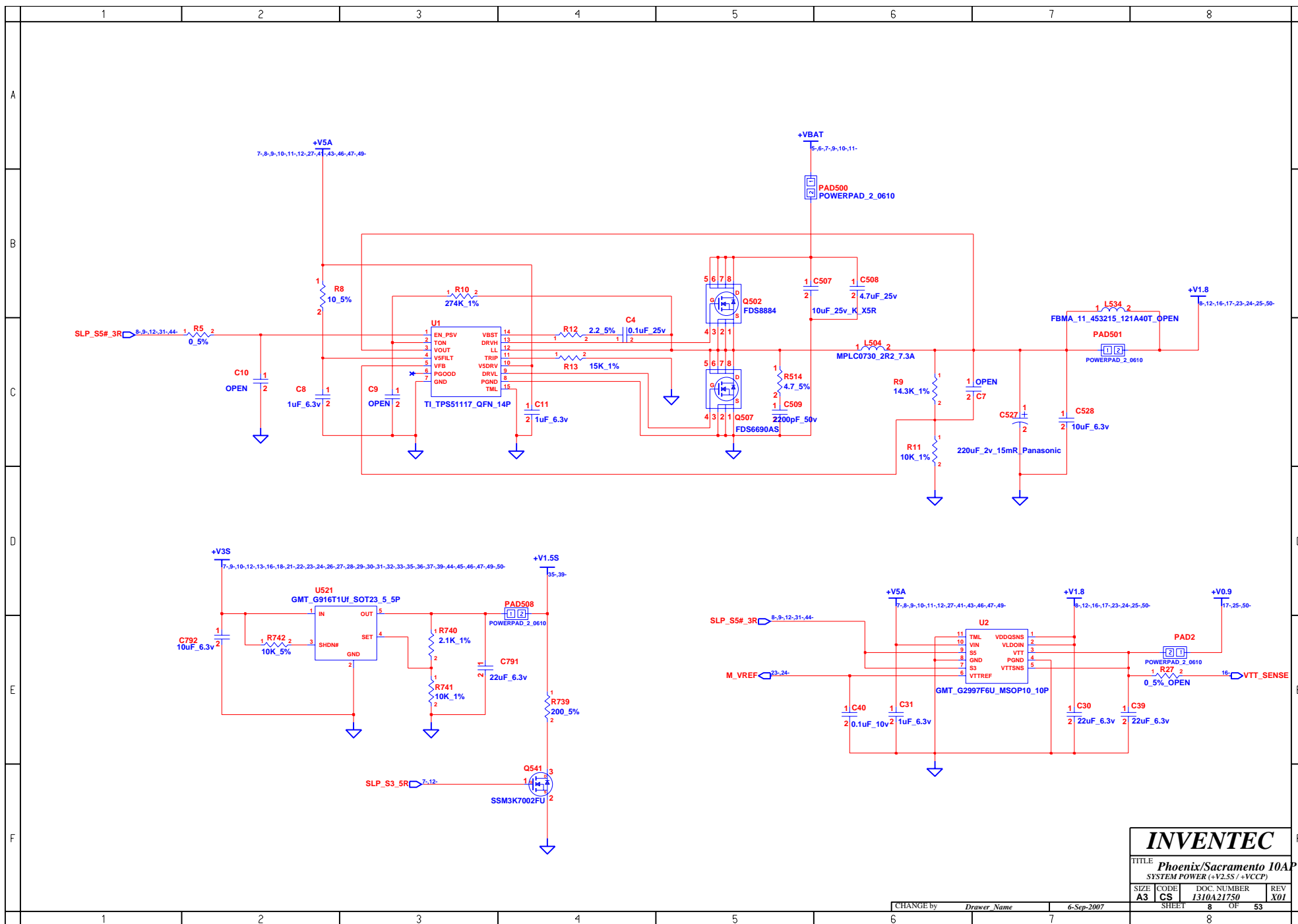


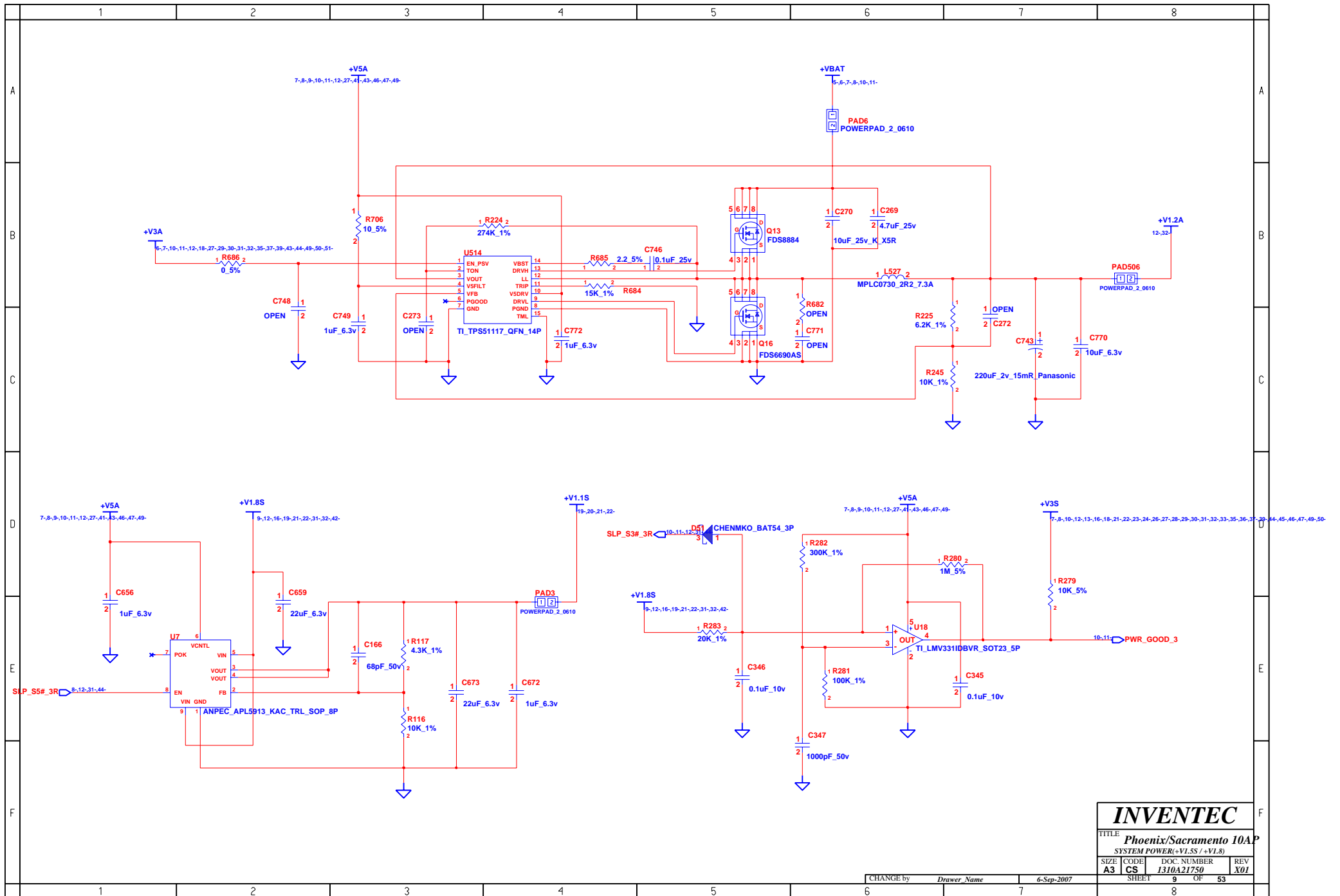


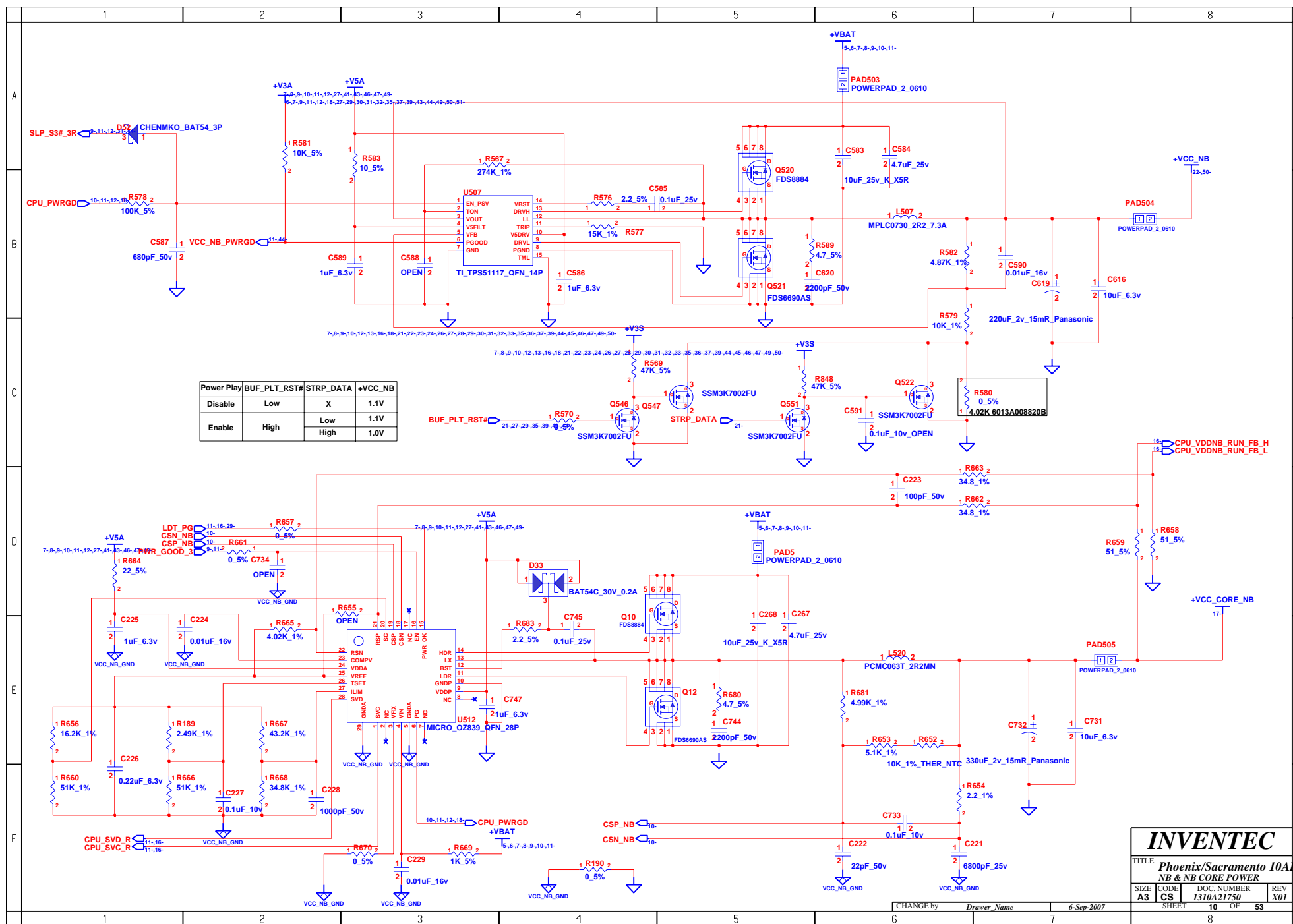


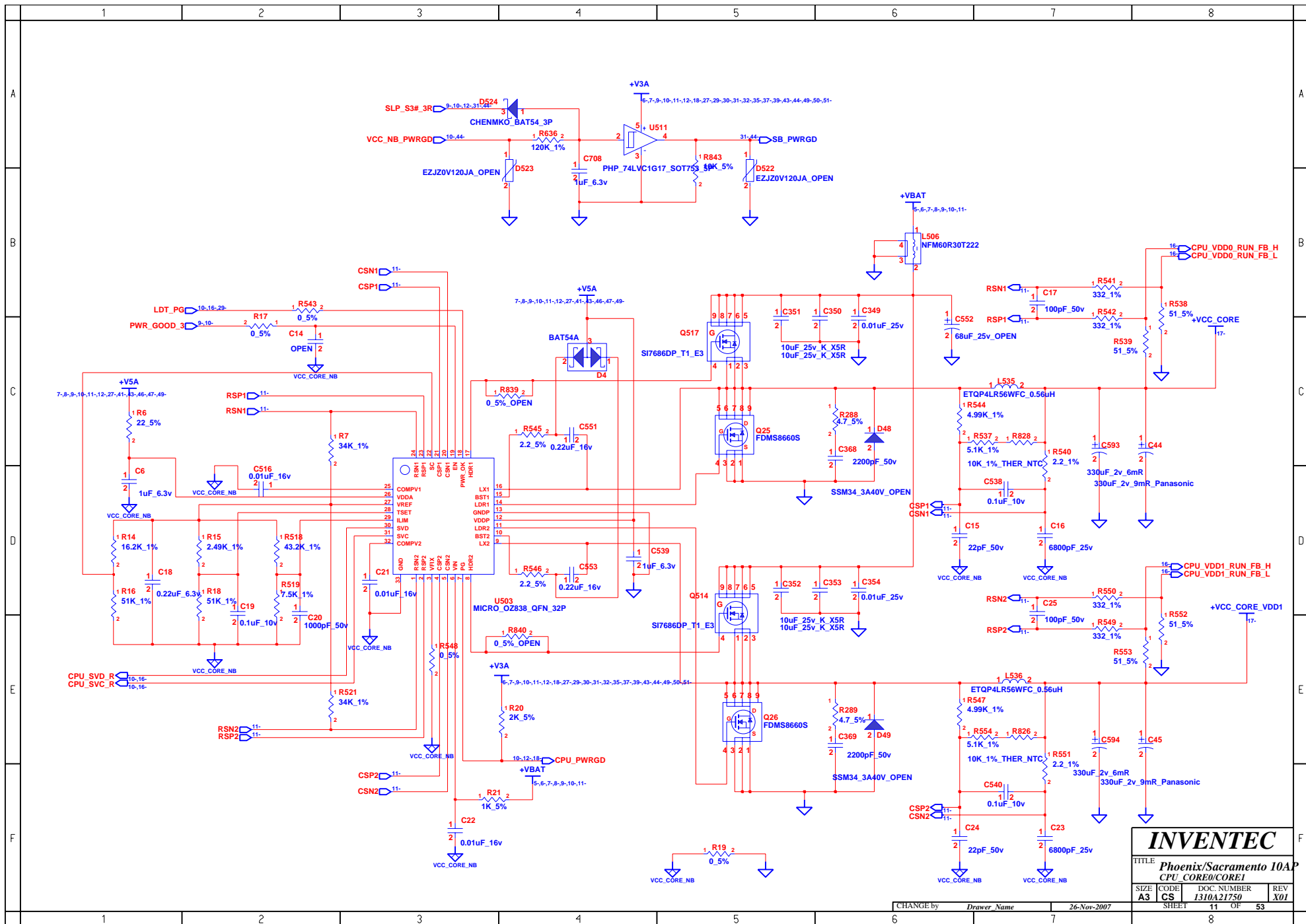
INVENTEC			
TITLE: Phoenix/Sacramento 10A BATTERY CONN			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A21750	REV: X01
CHANGE by: Drawer Name		6-Sep-2007	
SHEET: 6		OF: 53	
1		8	



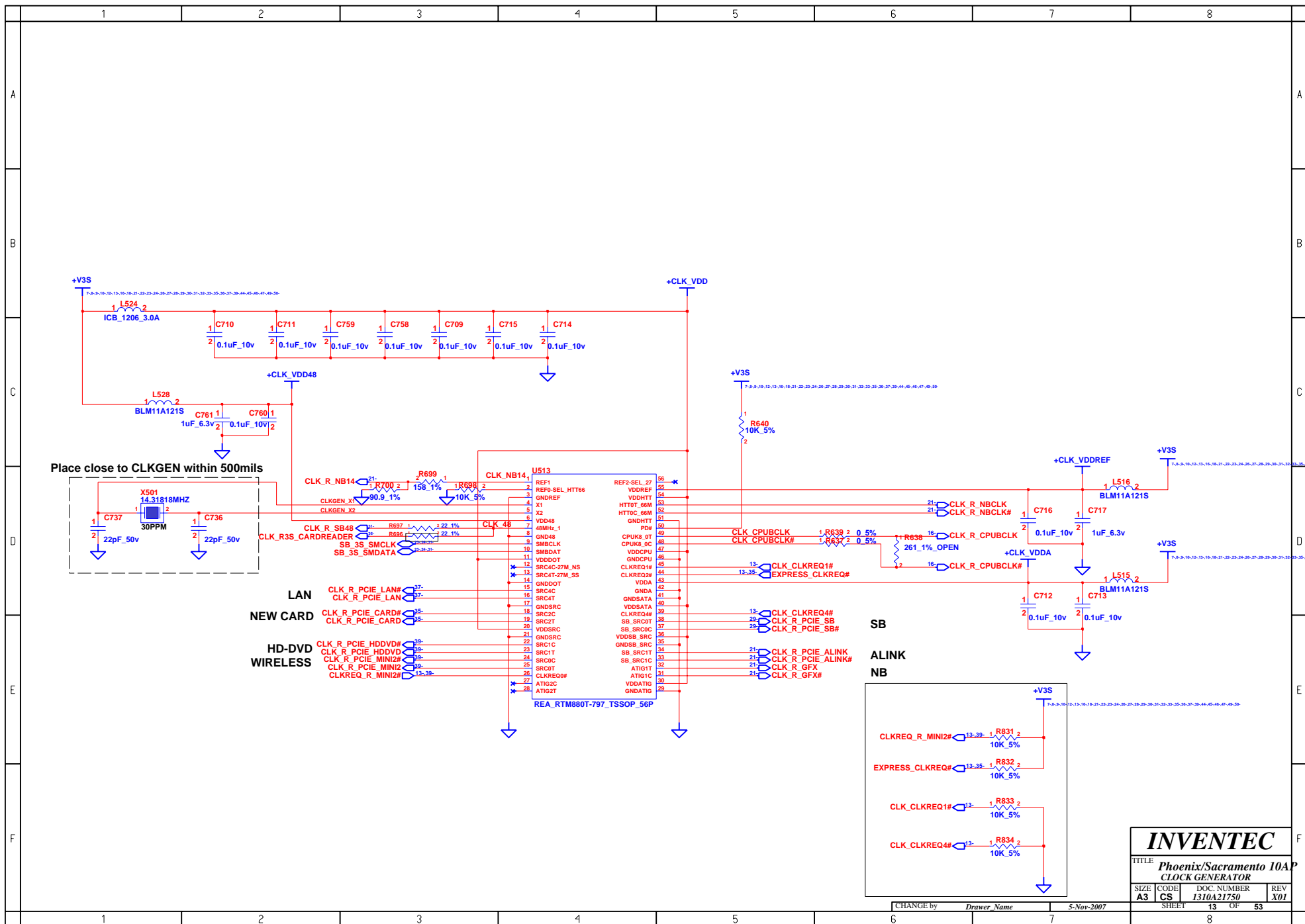


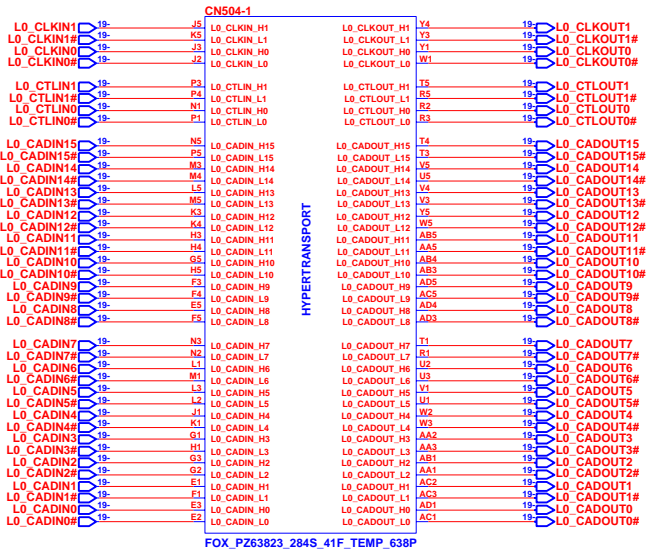




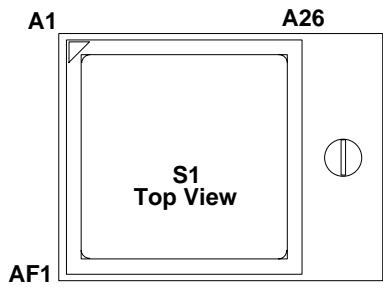


INVENTEC			
TITLE: Phoenix/Sacramento 10A CPU CORE0/CORE1			
SIZE: A3	CODE: CS	DOC. NUMBER: I310A21750	REV: X01
CHANGE by: Drawer Name		26-Nov-2007	SHEET 11 OF 53





Layout: Add stitching caps if crossing plane split.

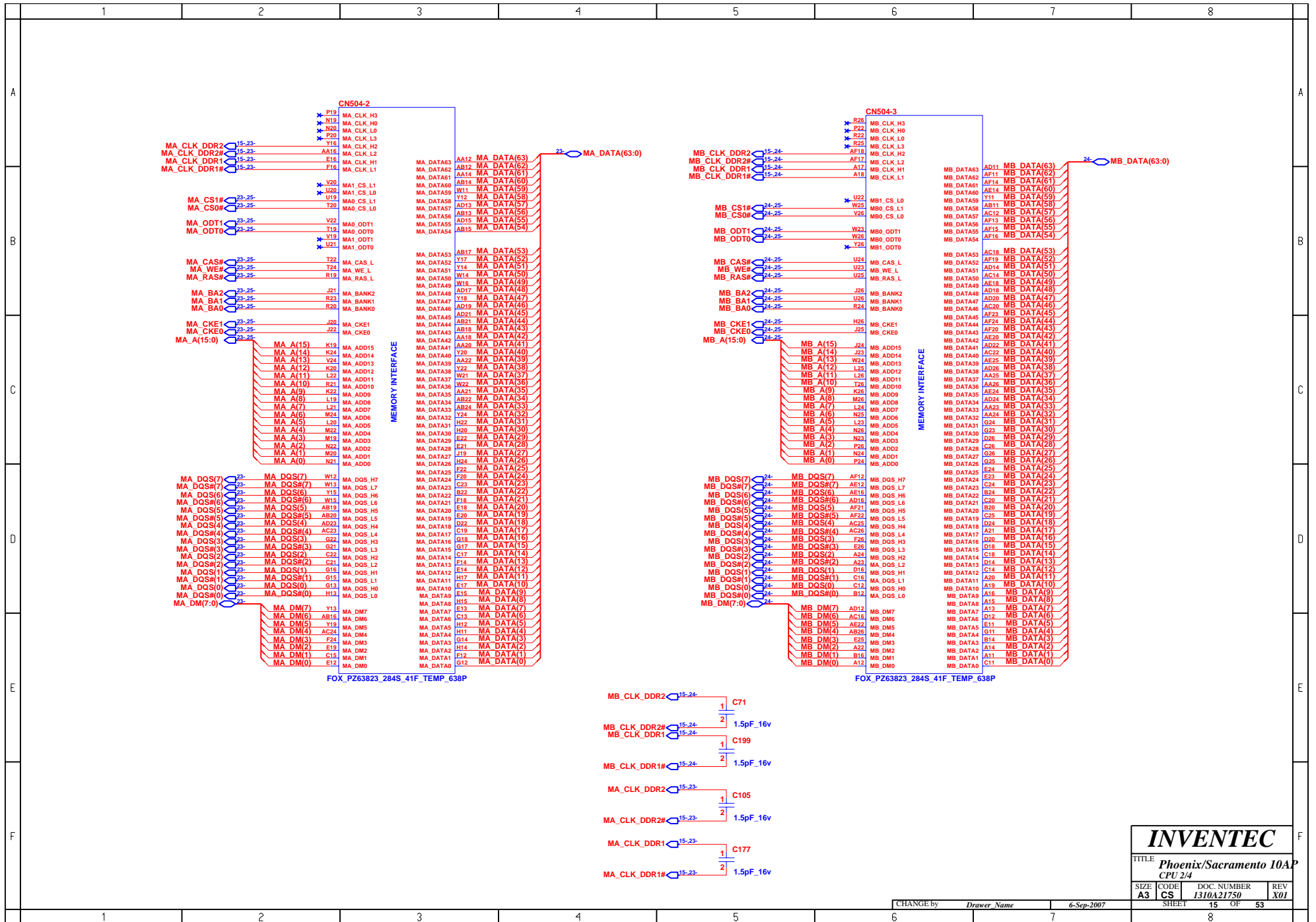


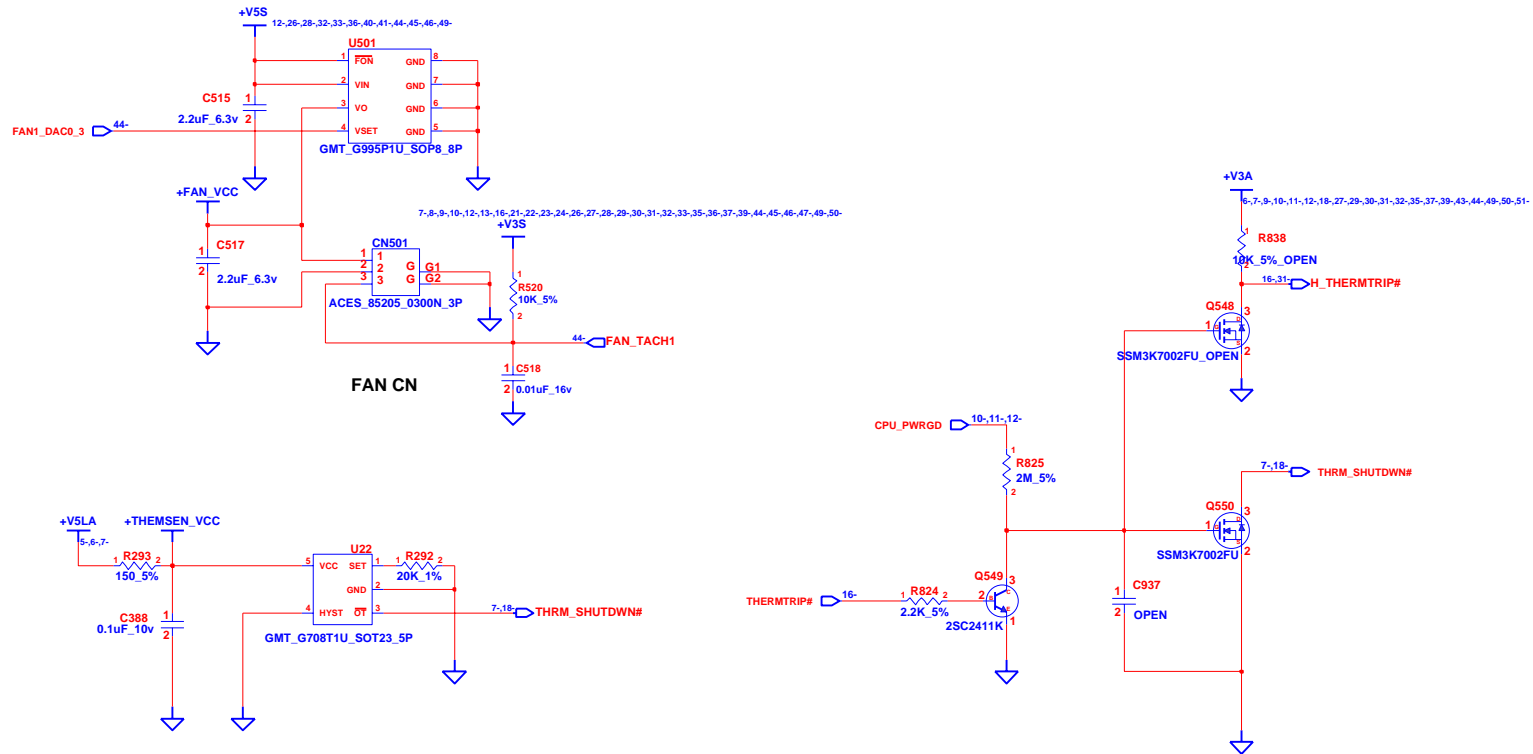
INVENTEC

TITLE **Phoenix/Sacramento 10A**
CPU 14

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01

SHEET 14 OF 53

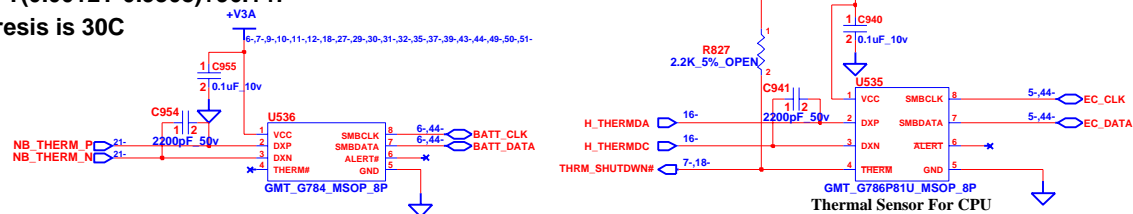




Thermal shutoff at 93C +/-3C from 60C to 100C

$RSET = T(0.0012T - 0.9308) + 96.147$

Hysteresis is 30C



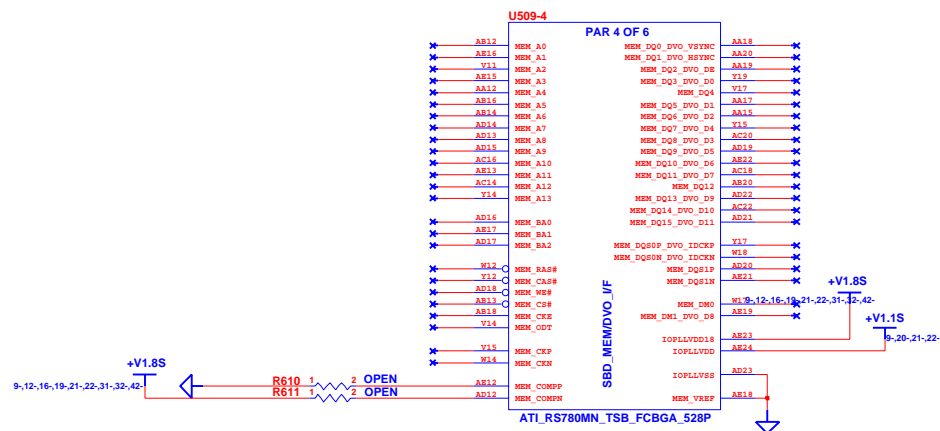
INVENTEC

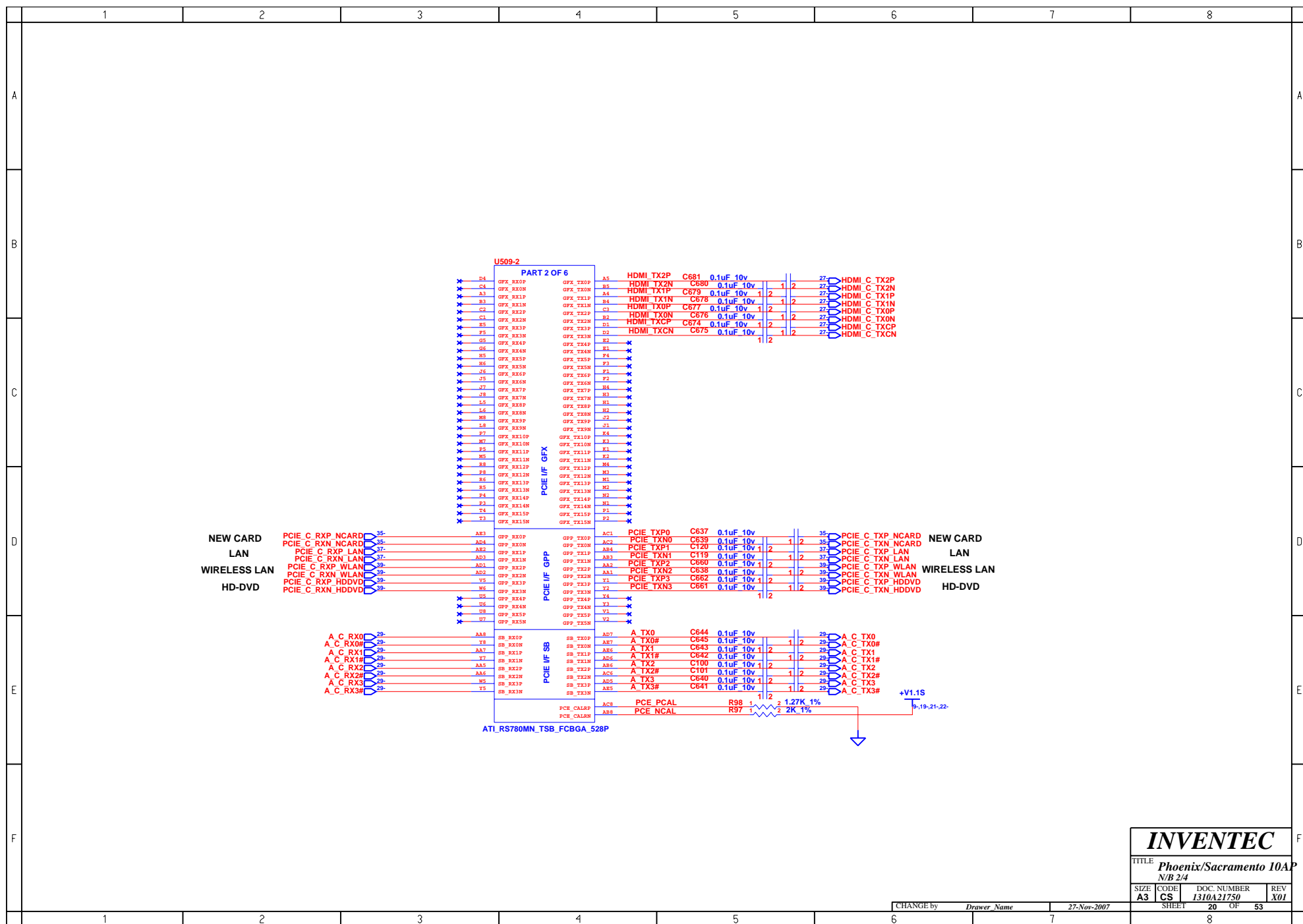
TITLE **Phoenix/Sacramento 10AP**
FAN & THERMAL CONTROLLER

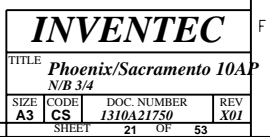
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01

CHANGE by *Drawer Name* 6-Sep-2007

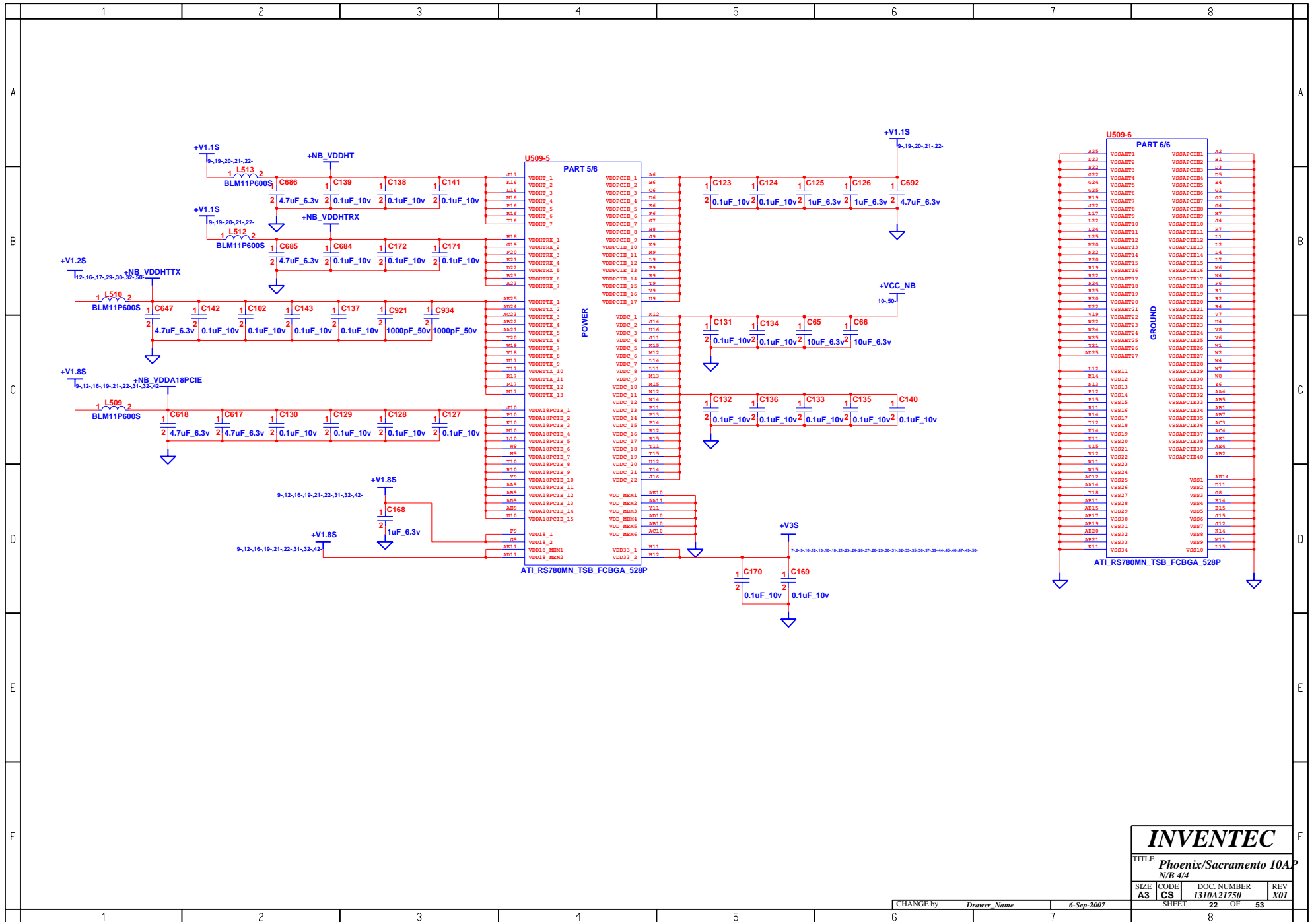
SHEET 18 OF 53

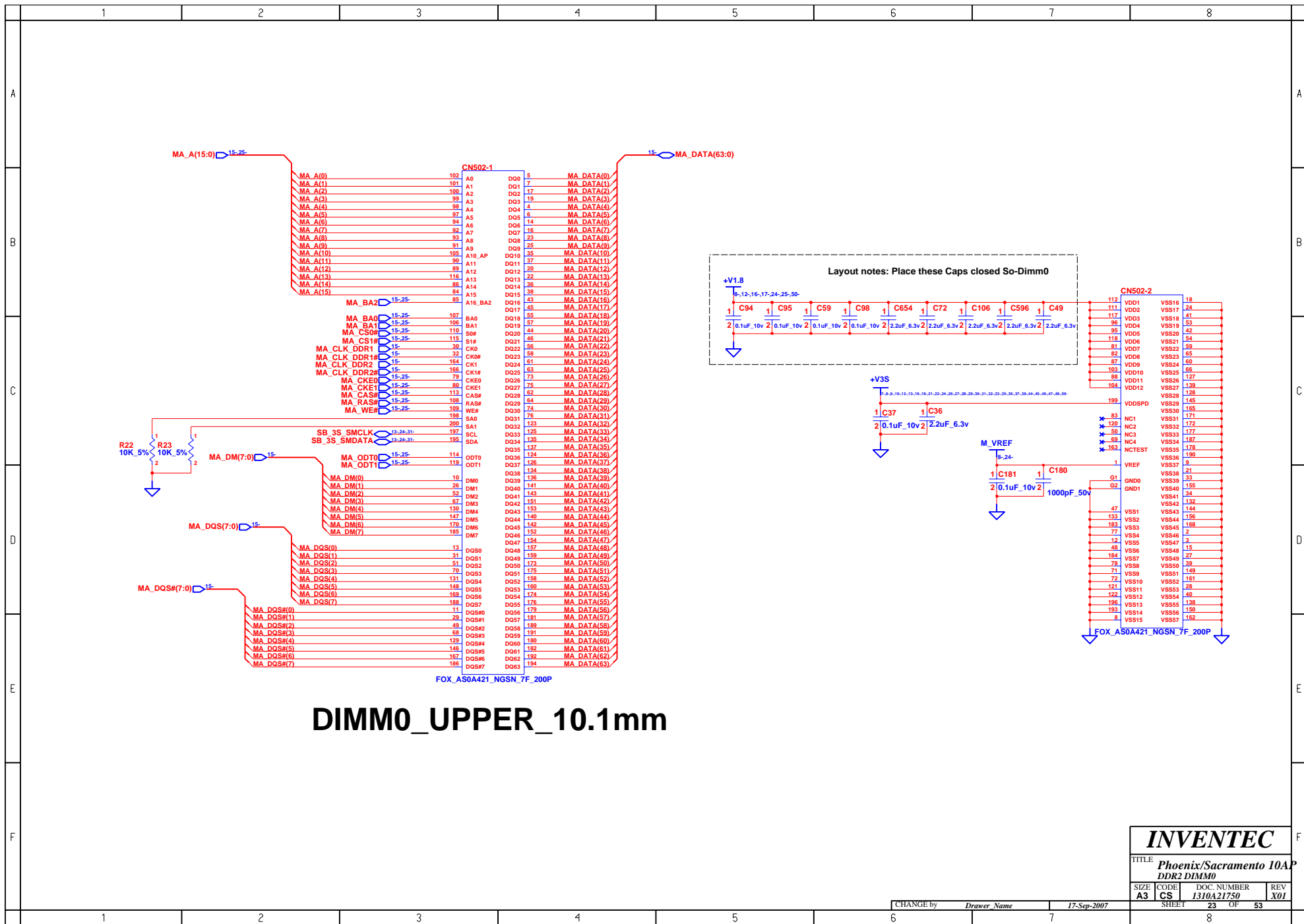






CHANGE by <i>Drawer Name</i>		29-Nov-2007	A3	CS	1310A21750	A01
6	7			SHEET	21 OF 53	



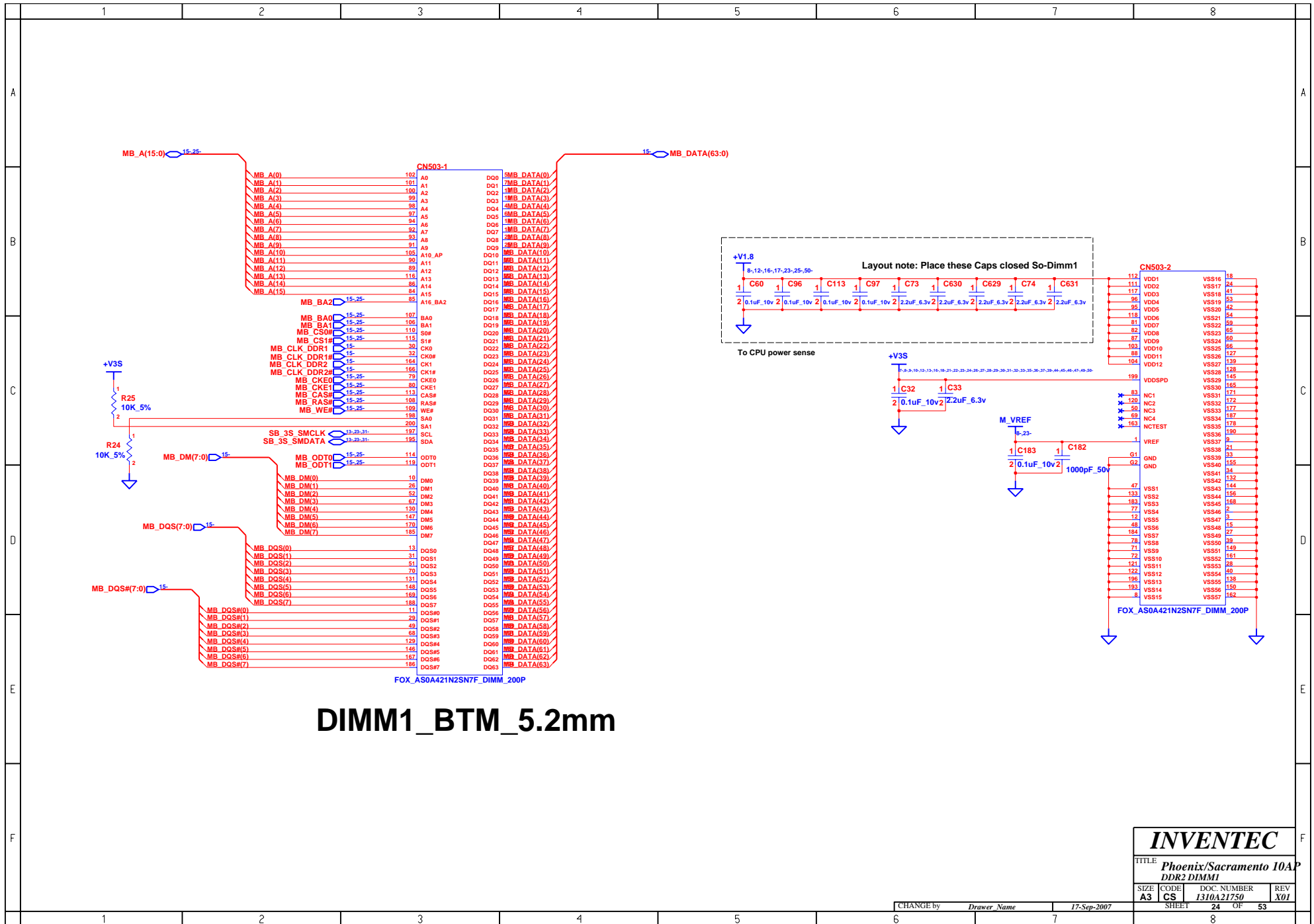


DIMM0_UPPER_10.1mm

INVENTEC			
TITLE: Phoenix/Sacramento 10A2			
DDR2 DIMM0			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01

CHANGE by: Drawer Name 17-Sep-2007

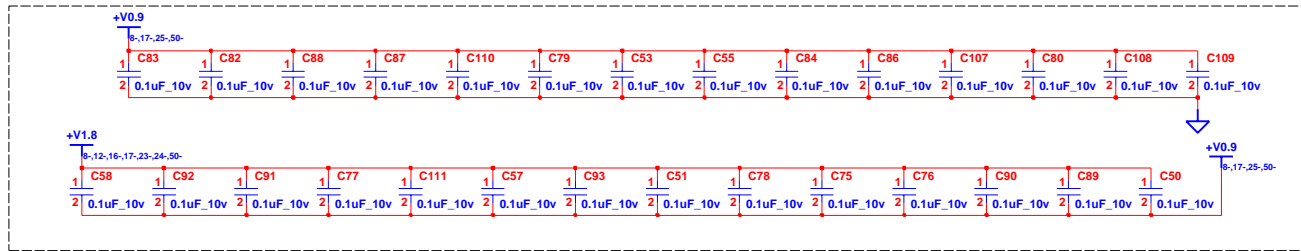
SHEET 23 OF 53



INVENTEC			
TITLE: Phoenix/Sacramento 10A ² DDR2 DIMM1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01

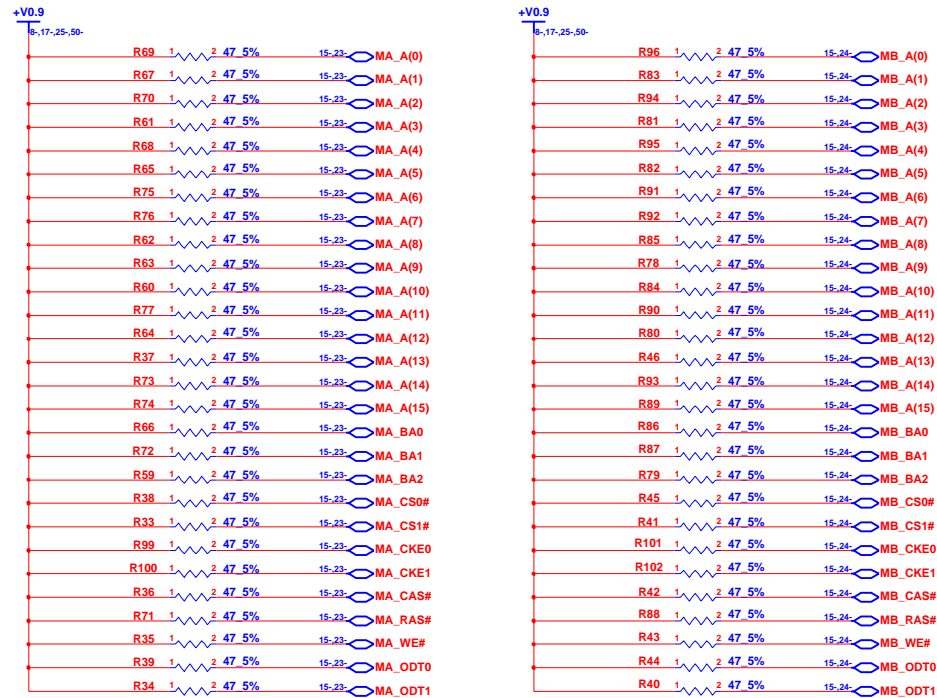
CHANGE by: Drawer Name 17-Sep-2007

SHEET 24 OF 53



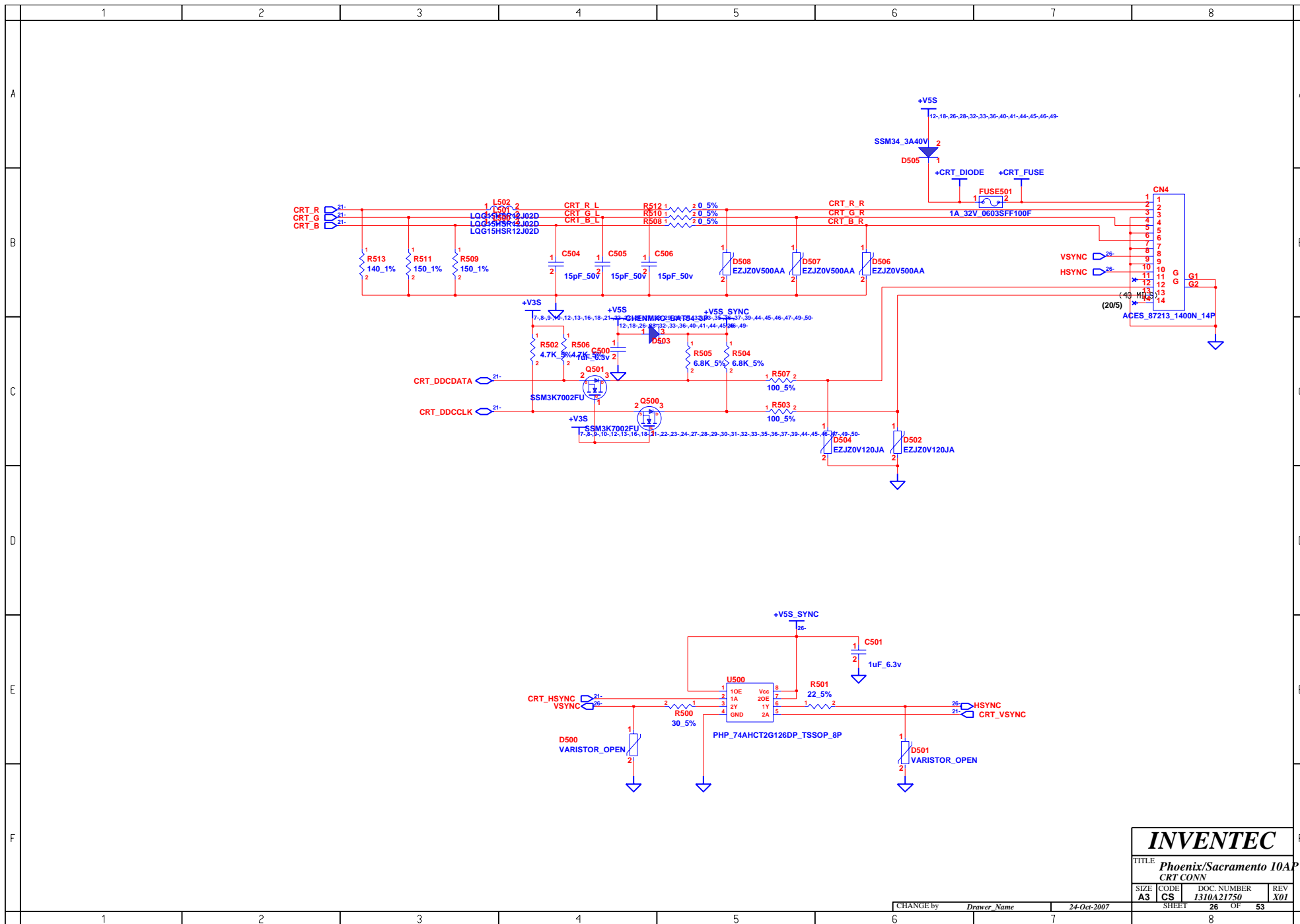
To CPU power sense

Place CAPs close to DIMM

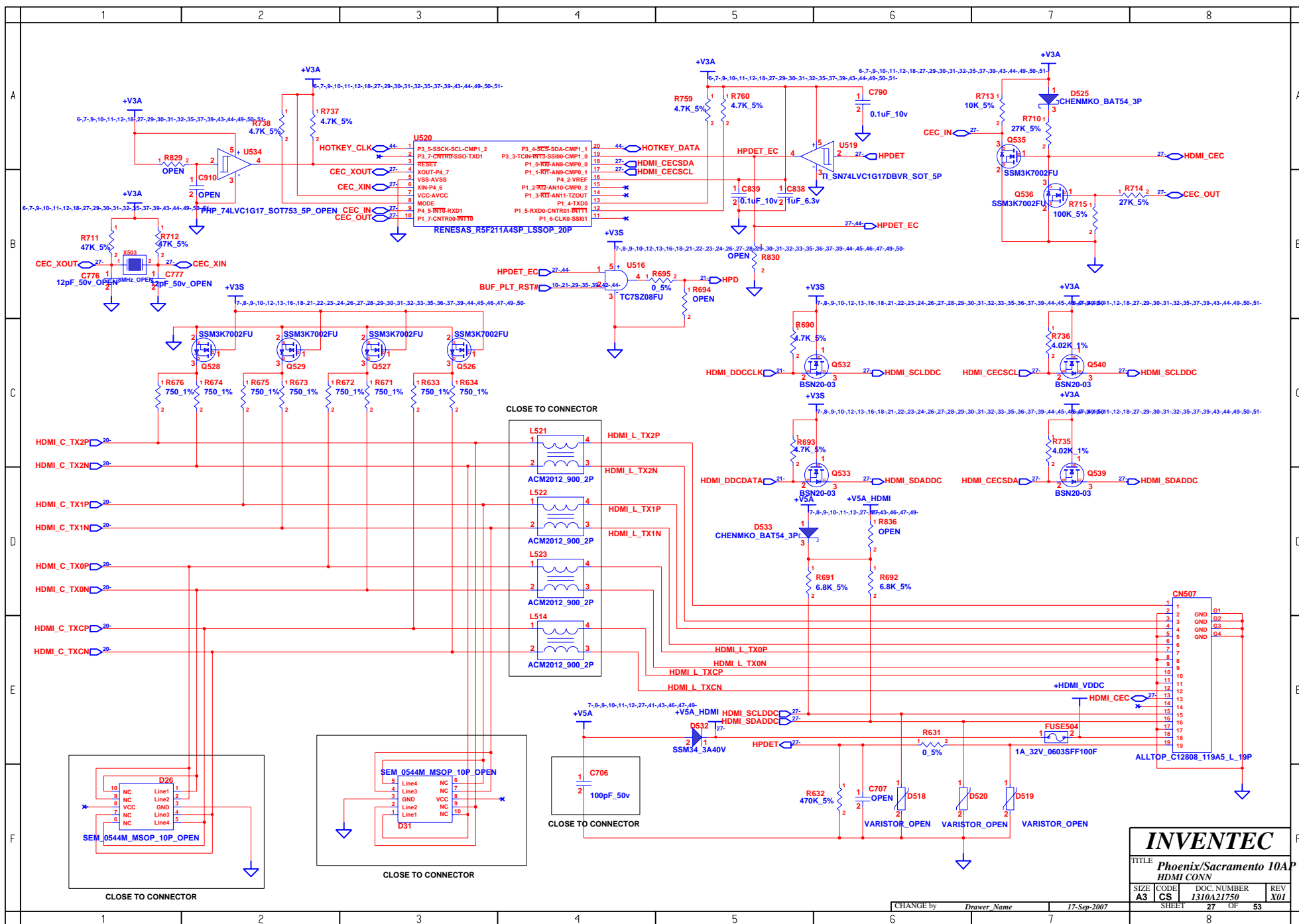


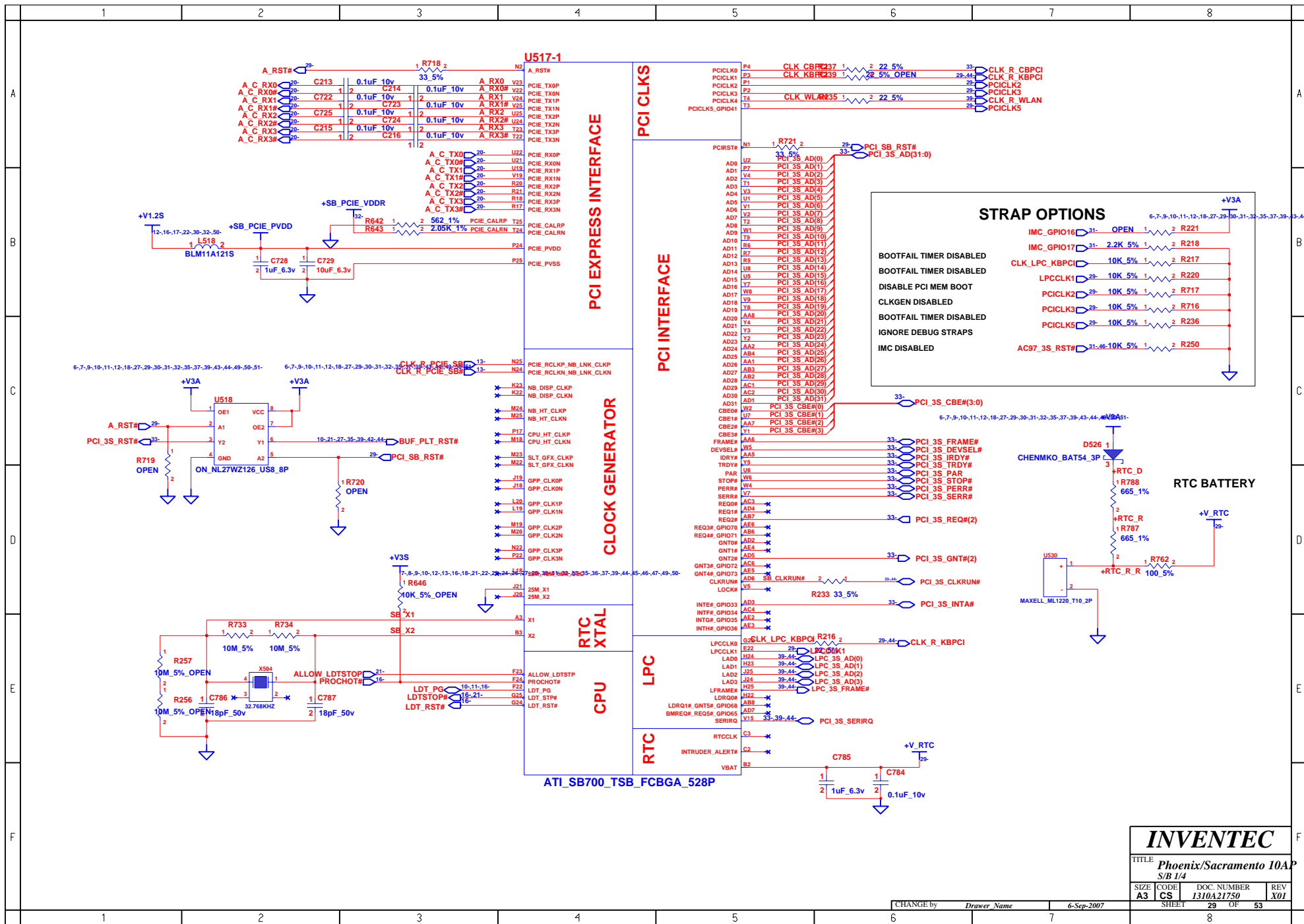
INVENTEC			
TITLE: Phoenix/Sacramento 10AP			
DDR TERMINATIONS			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01
SHEET		25	OF 53

CHANGE by: Drawer Name 6-Sep-2007

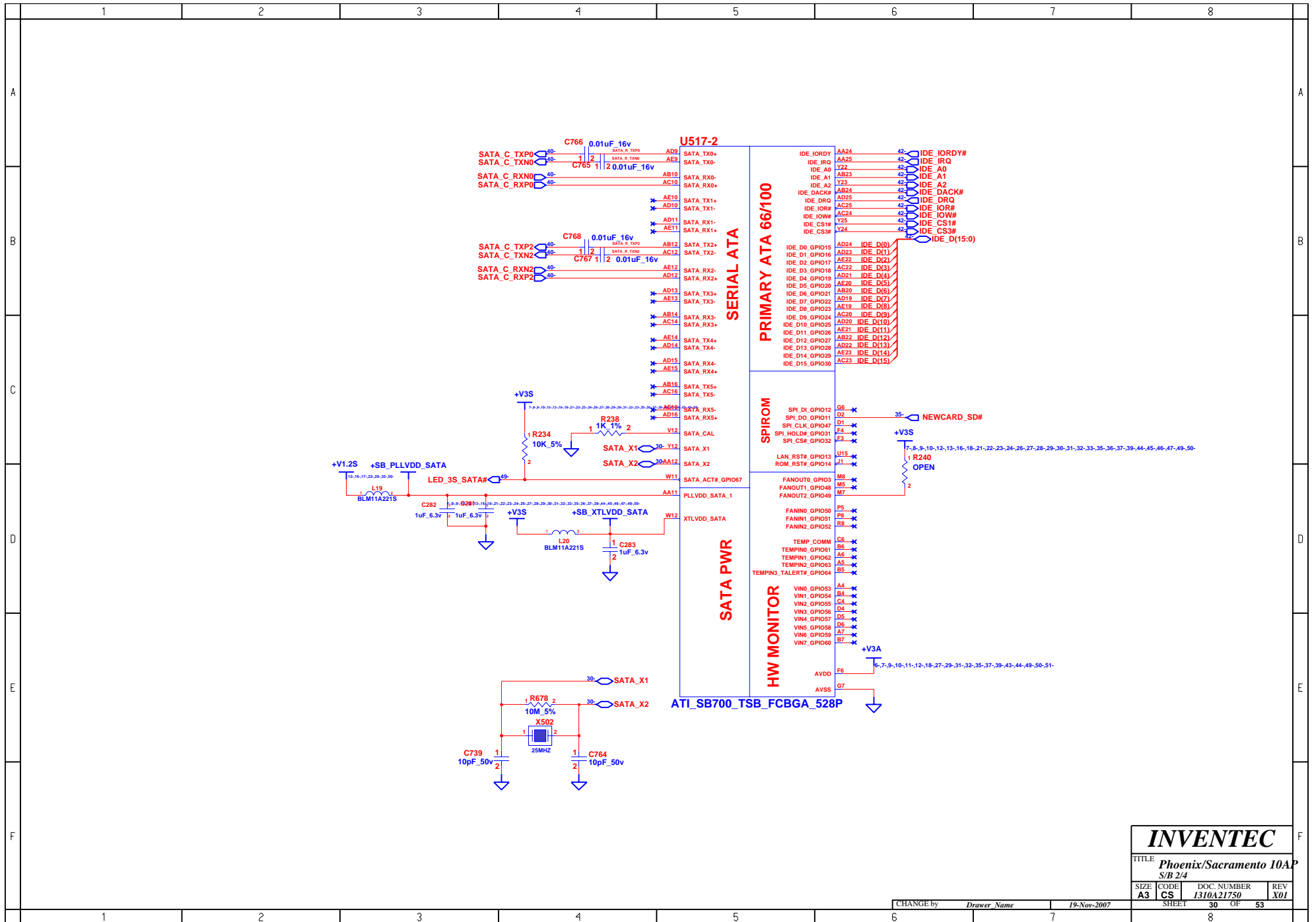


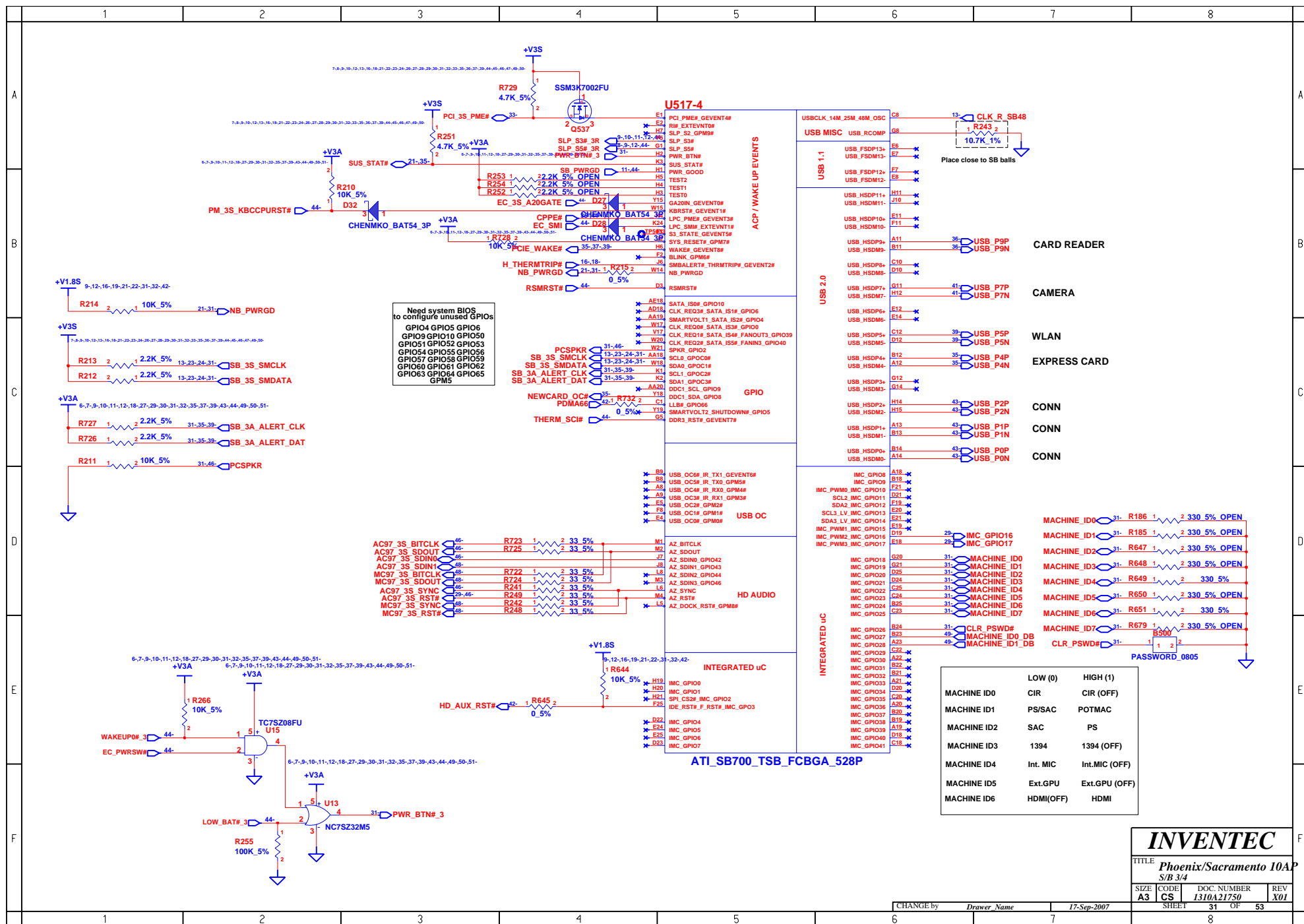
INVENTEC			
TITLE Phoenix/Sacramento 10A P CRT CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A21750	REV X01
CHANGE by Drawer Name		24-Oct-2007	SHEET 26 OF 53

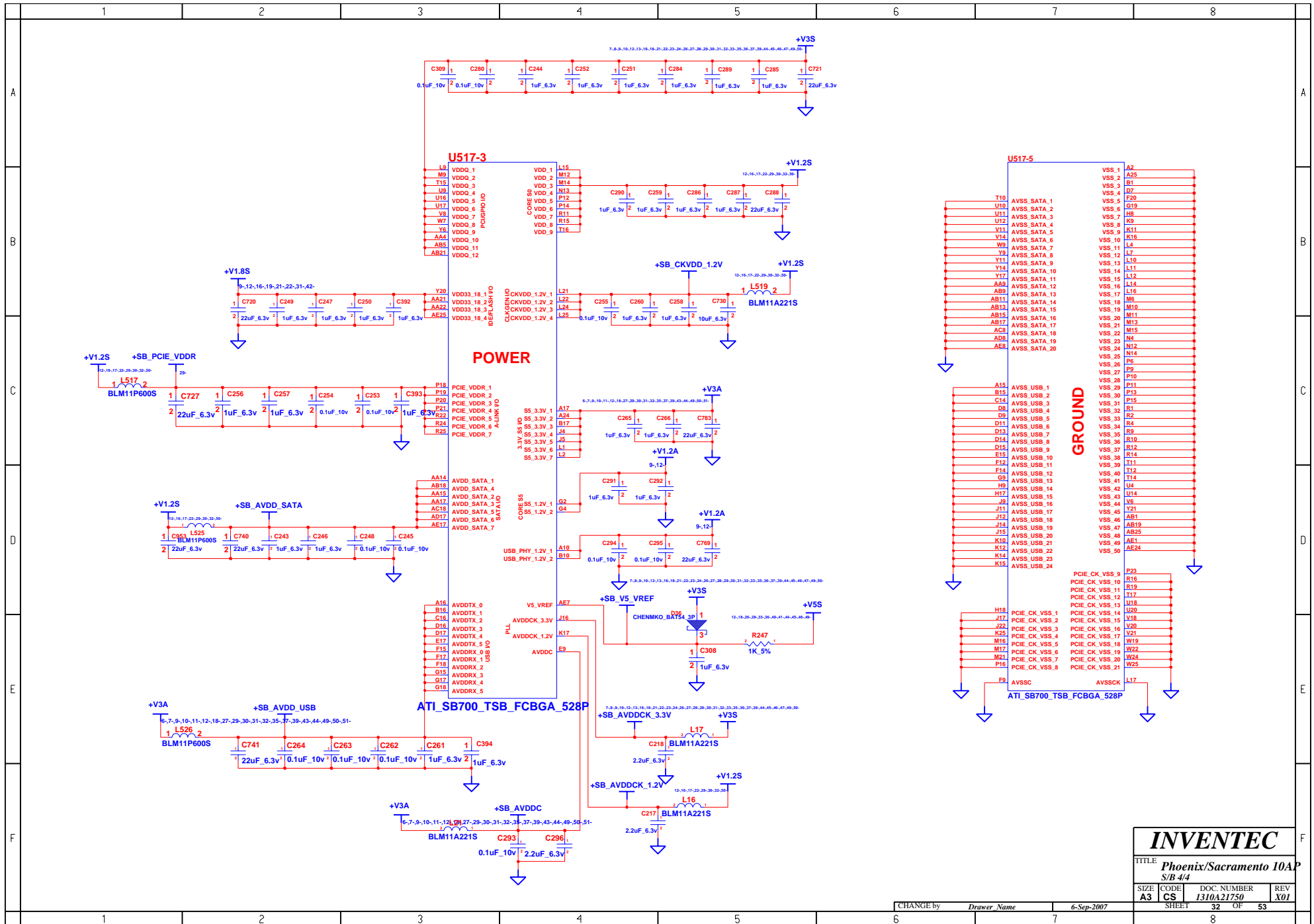




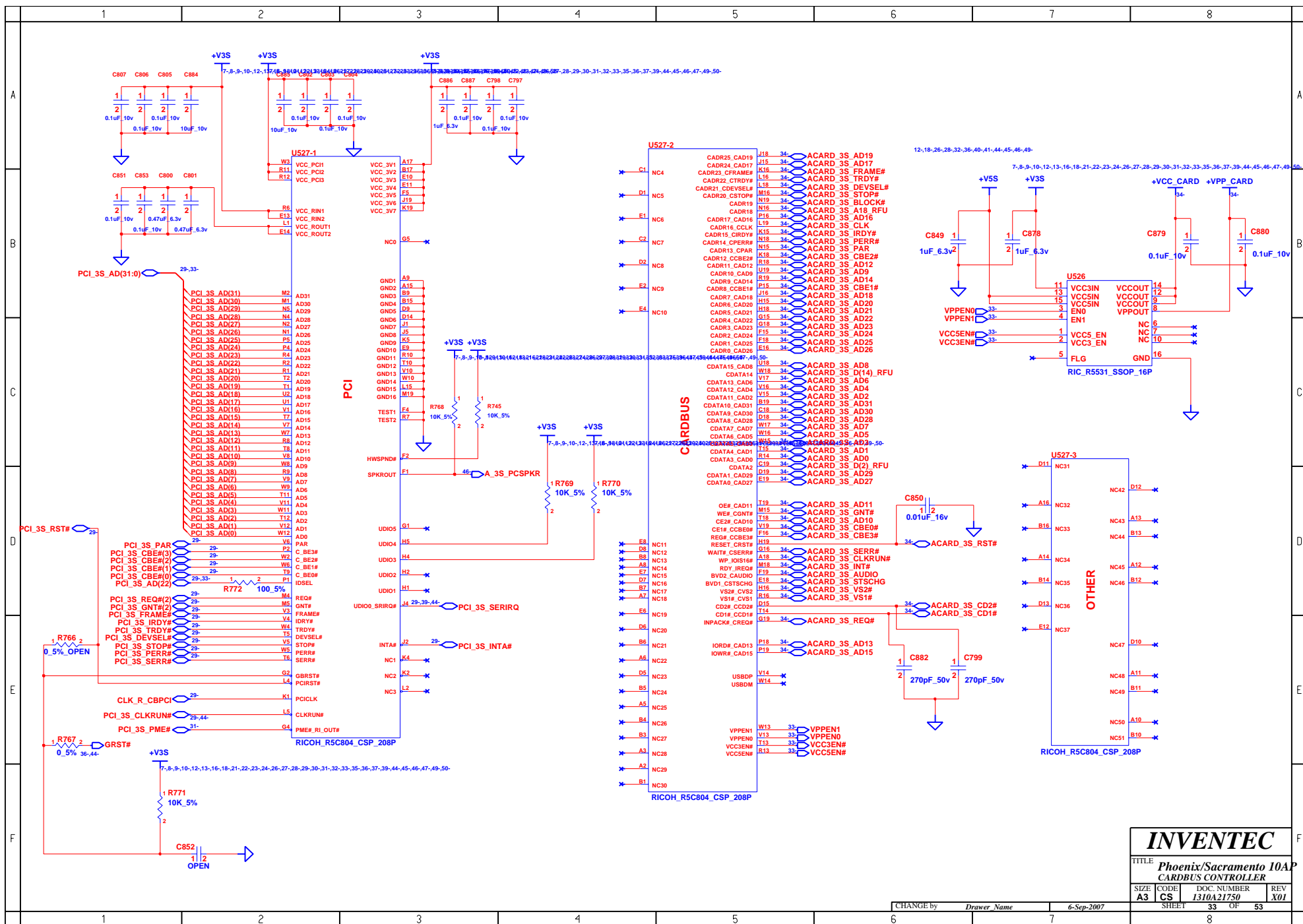
INVENTEC			
TITLE Phoenix/Sacramento 10A P/S/B 1/4			
SIZE A3	CODE CS	DOC. NUMBER 1310A21750	REV X01
CHANGE by Drawer Name		6-Sep-2007	
SHEET 29		OF 53	

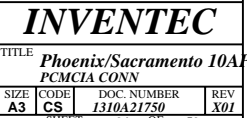


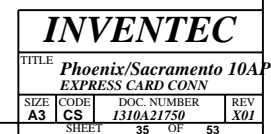


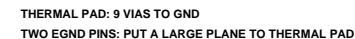
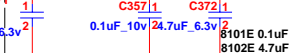


INVENTEC			
TITLE: Phoenix/Sacramento 10A P			
S/B 44			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A21750	X01
CHANGE by		Drawer Name	6-Sep-2007
SHEET		32	OF 53

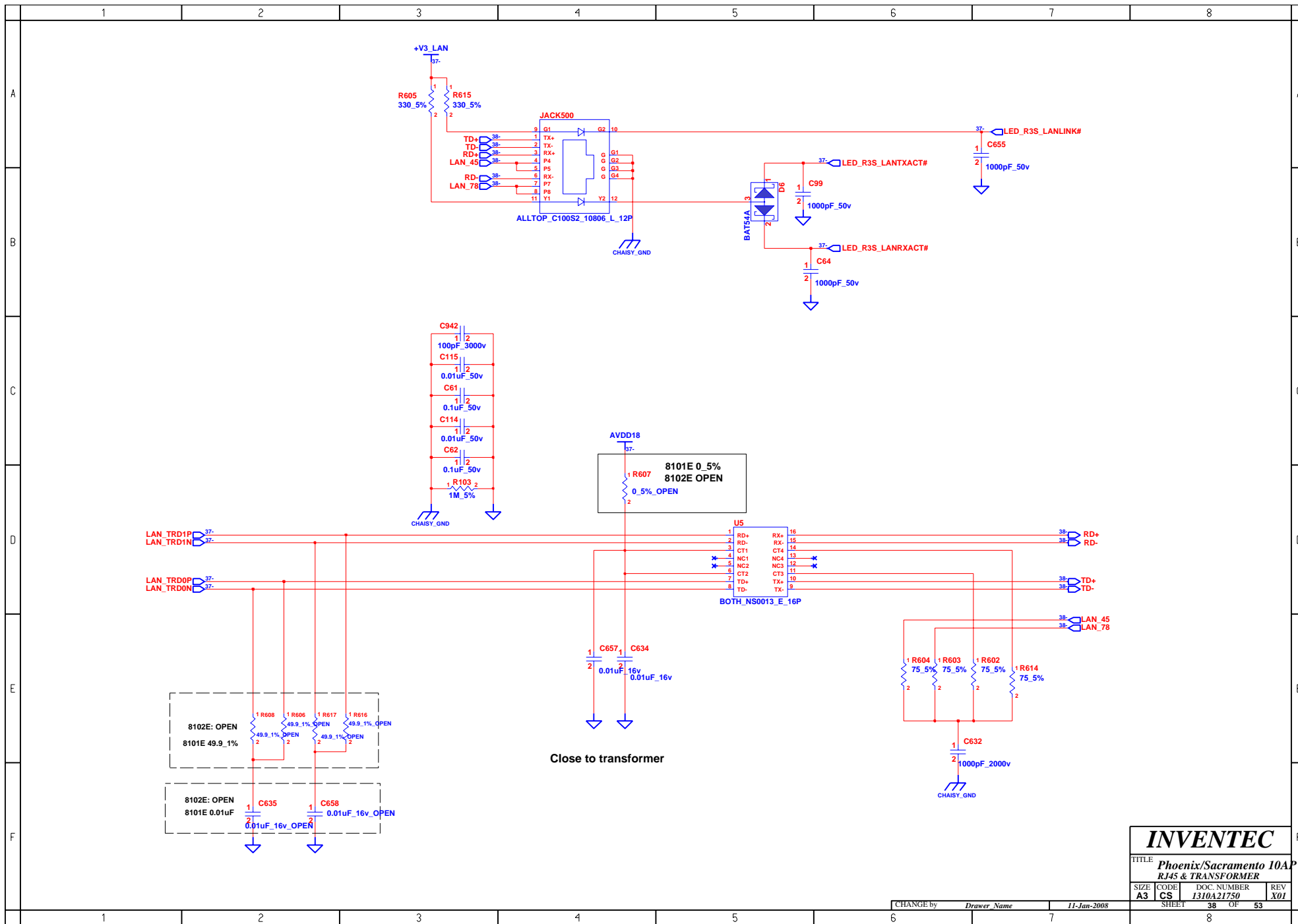






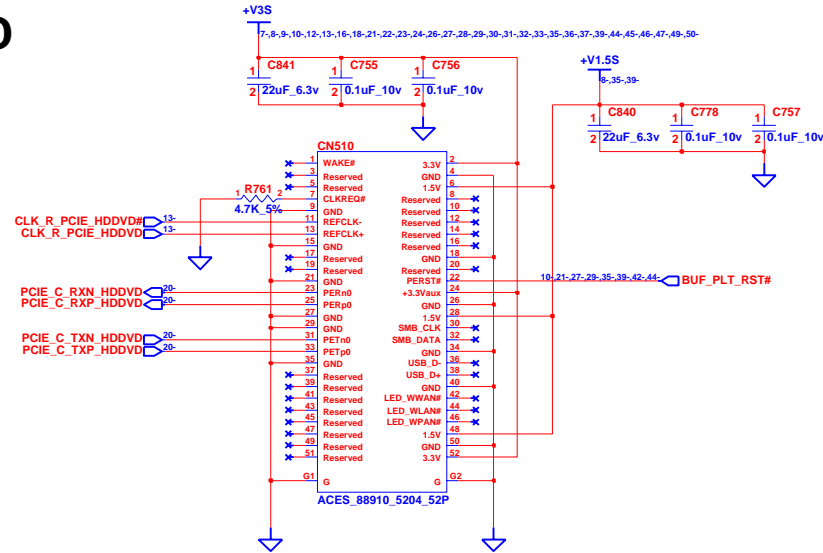


SHEET 37 OF 53

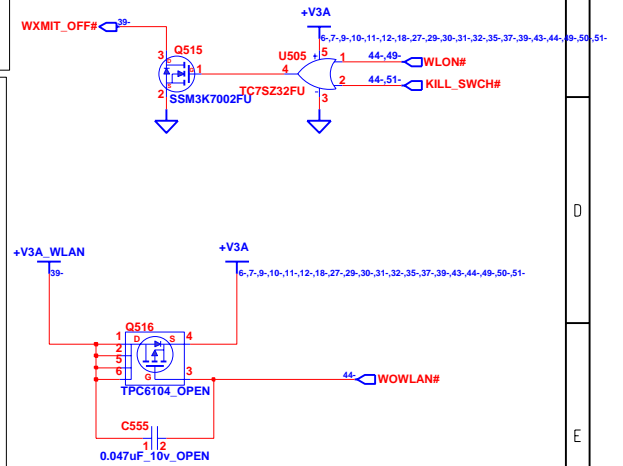
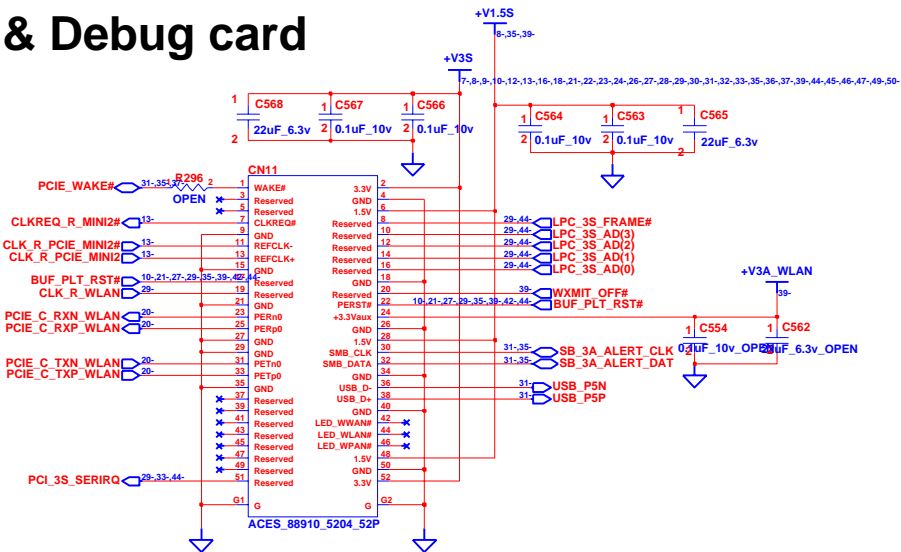


INVENTEC			
TITLE: Phoenix/Sacramento 10A RJ45 & TRANSFORMER			
SIZE: A3	CODE: CS	DOC. NUMBER: I310A21750	REV: X01
CHANGE by: Drawer Name		11-Jan-2008	
SHEET: 38		OF: 53	

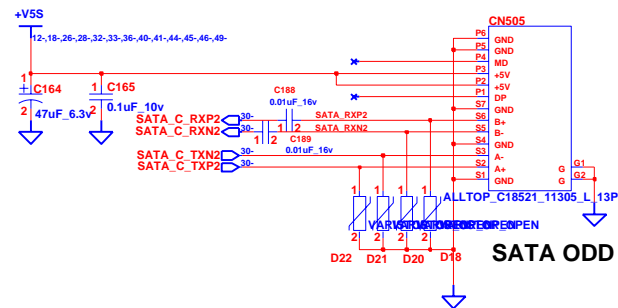
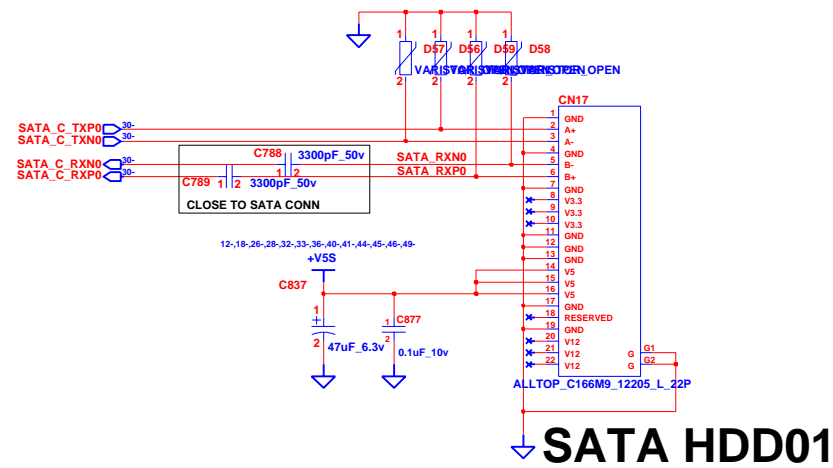
HD-DVD



Wireless & Debug card



INVENTEC			
TITLE: Phoenix/Sacramento 10A ² WLAN & HD-DVD			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A21750	REV: X01
CHANGE by: Drawer Name		6-Sep-2007	
SHEET: 39		OF: 53	



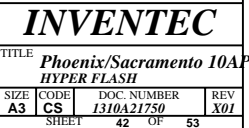
INVENTEC			
TITLE: Phoenix/Sacramento 10A ²			
SATA HDD & ODD CONN			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A21750	REV: X01
CHANGE by: Drawer Name		26-Sep-2007	
SHEET: 40		OF: 53	

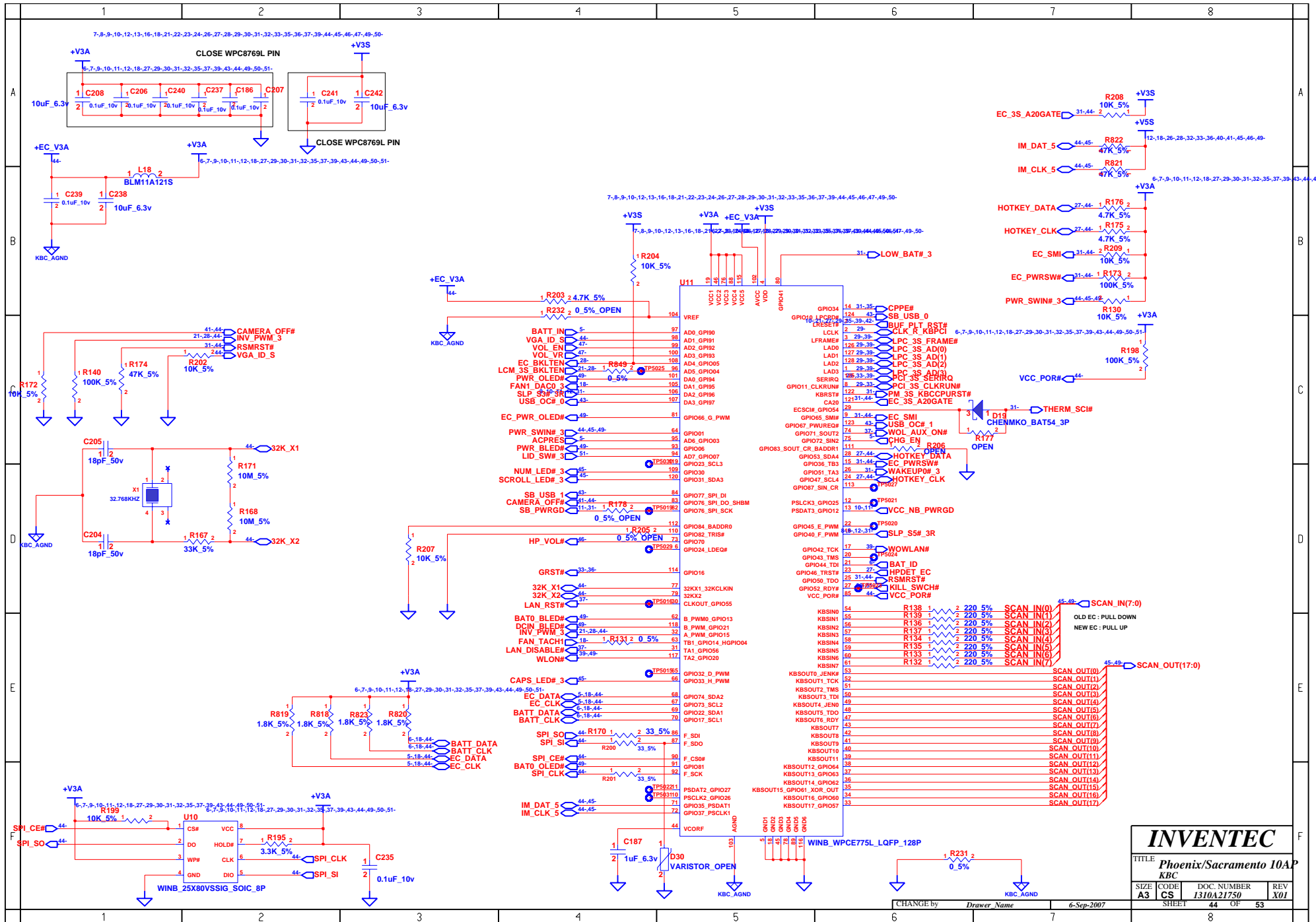


INVENTEC

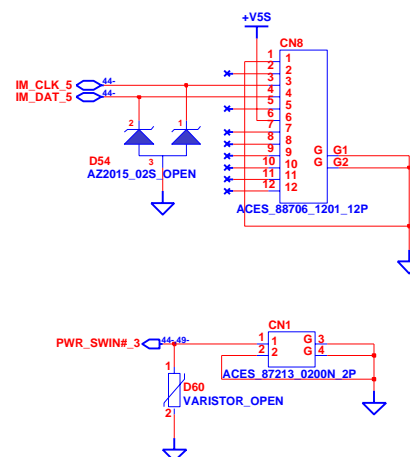
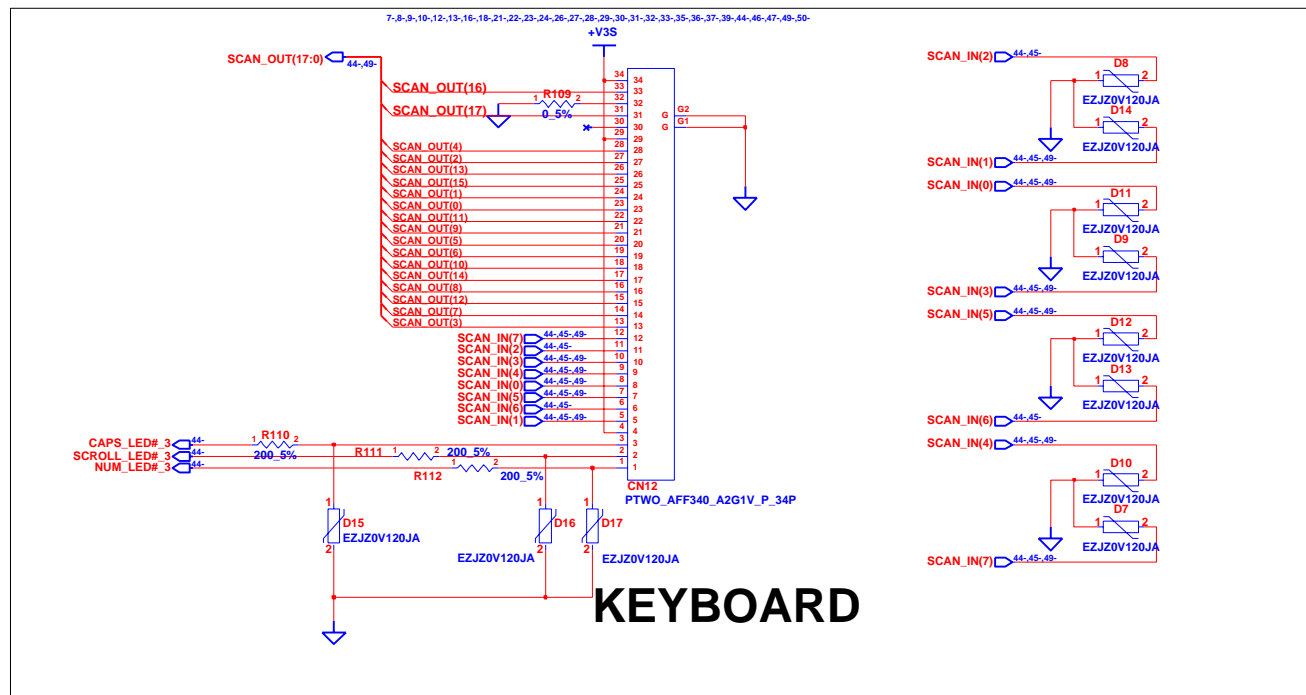
TITLE	<i>Phoenix/Sacramento 10AP</i> CAMERA CONN
-------	---

SIZE A3	CODE CS	DOC. NUMBER <i>1310A21750</i>	REV <i>X01</i>
SHEET 41 OF 53			





INVENTEC			
TITLE: Phoenix/Sacramento 10A			
KBC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01
SHEET		44 OF	53

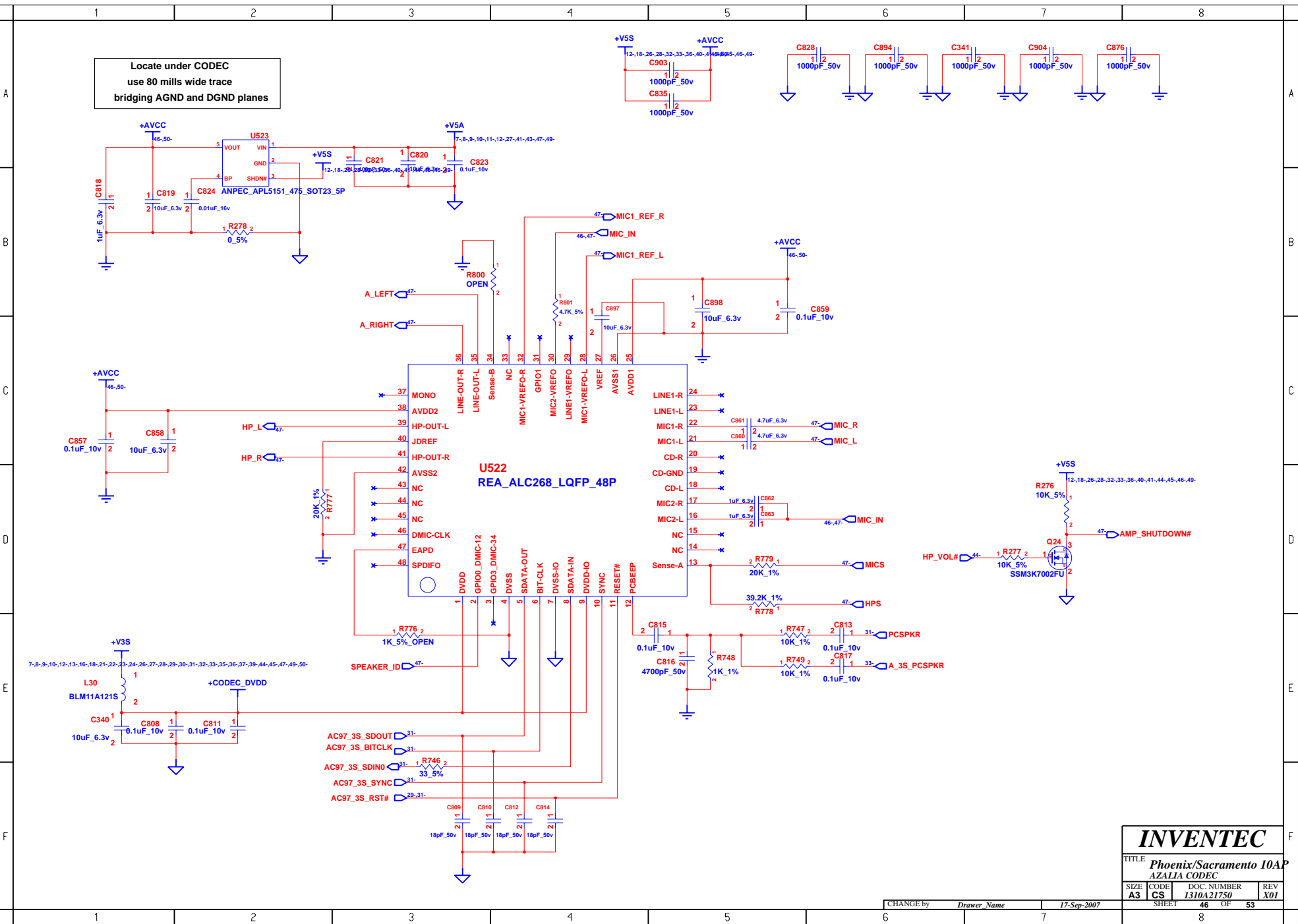


TITLE			
Phoenix/Sacramento 10A KBC & TP/B CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01
SHEET		45 OF	53

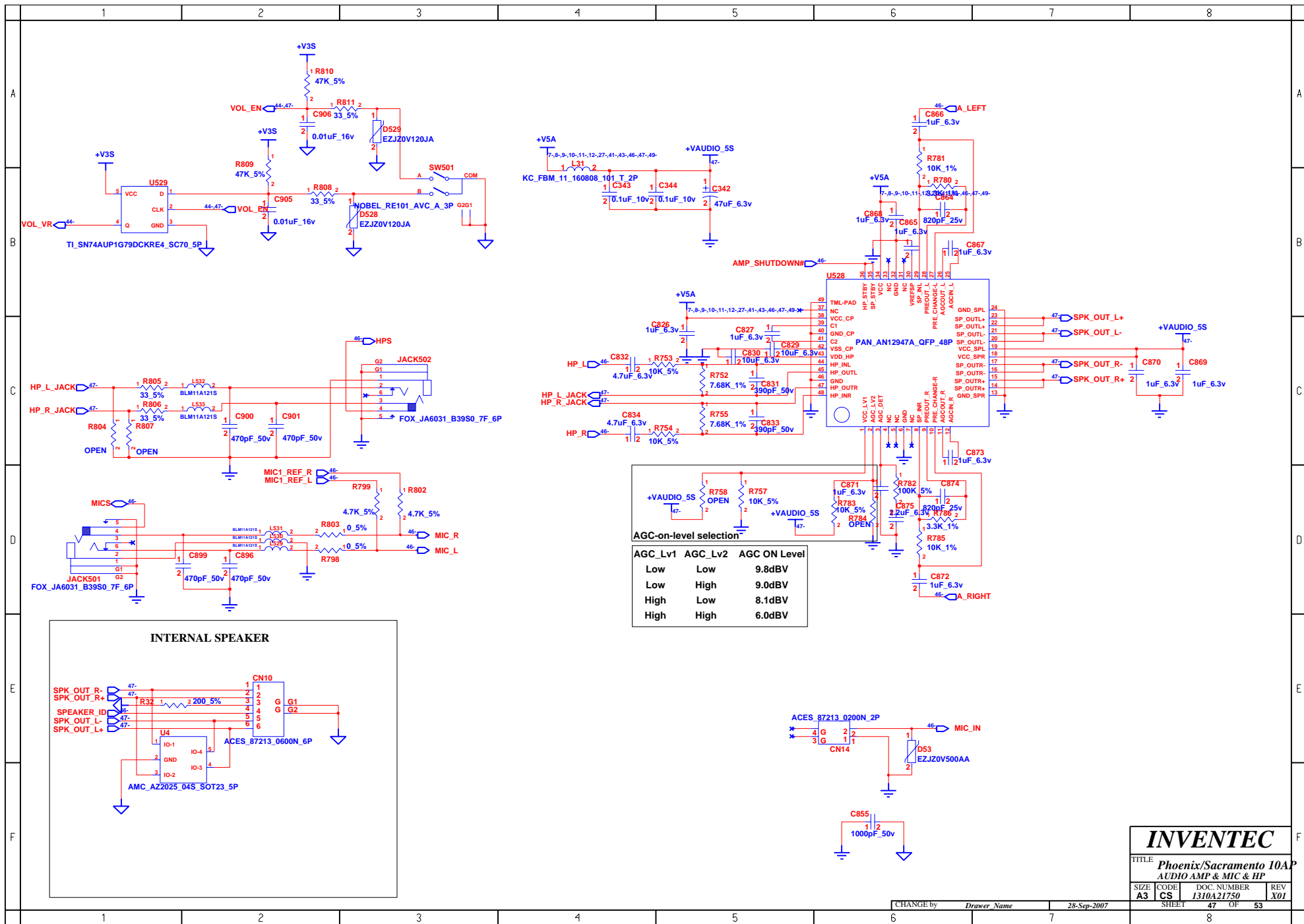
CHANGE by	<i>Drawer Name</i>	<i>1-Oct-2007</i>
-----------	--------------------	-------------------

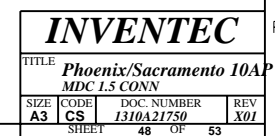
A3	CS	1310A21750
SHEET		45 OF 53

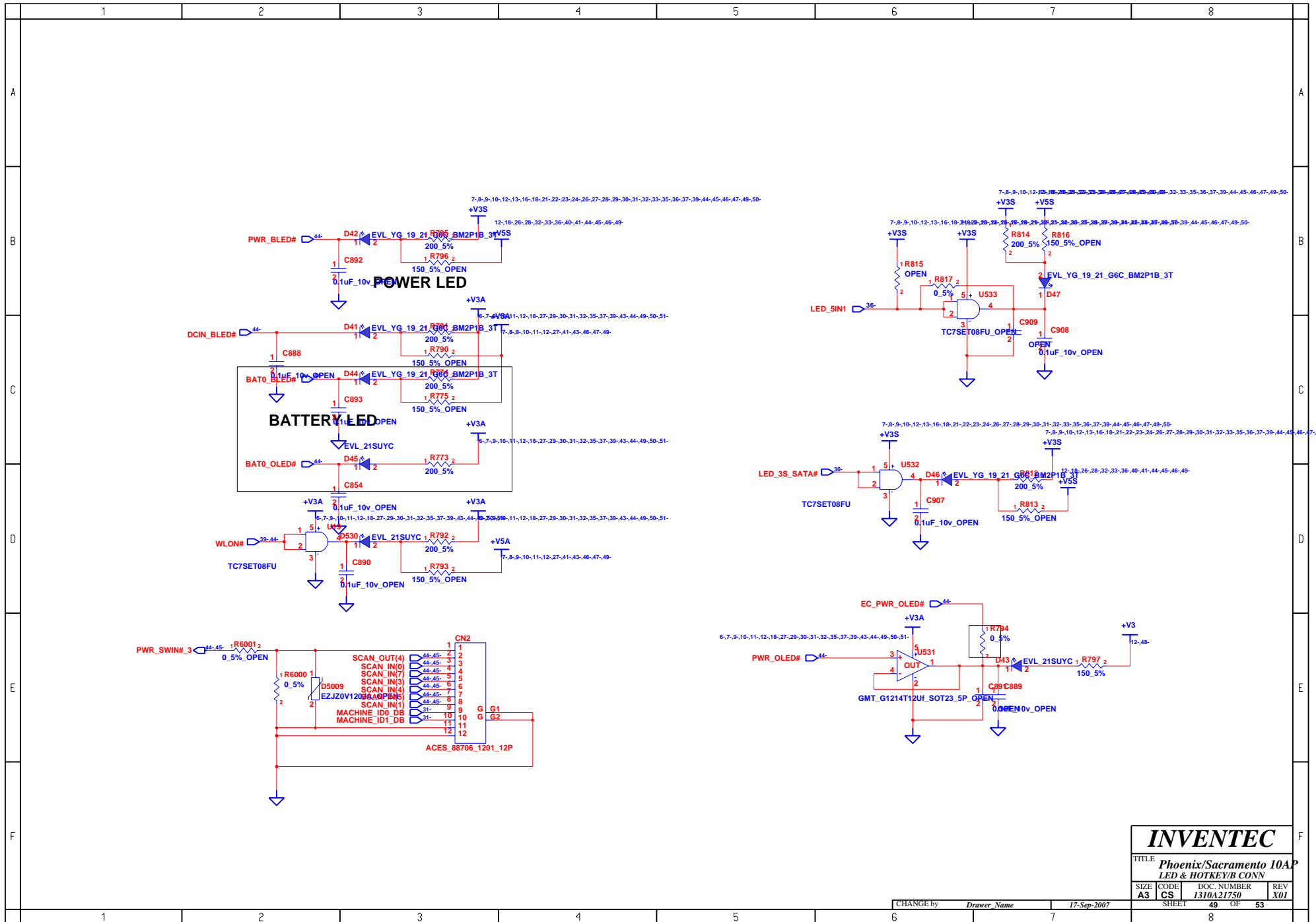
Locate under CODEC
use 80 mills wide trace
bridging AGND and DGND planes



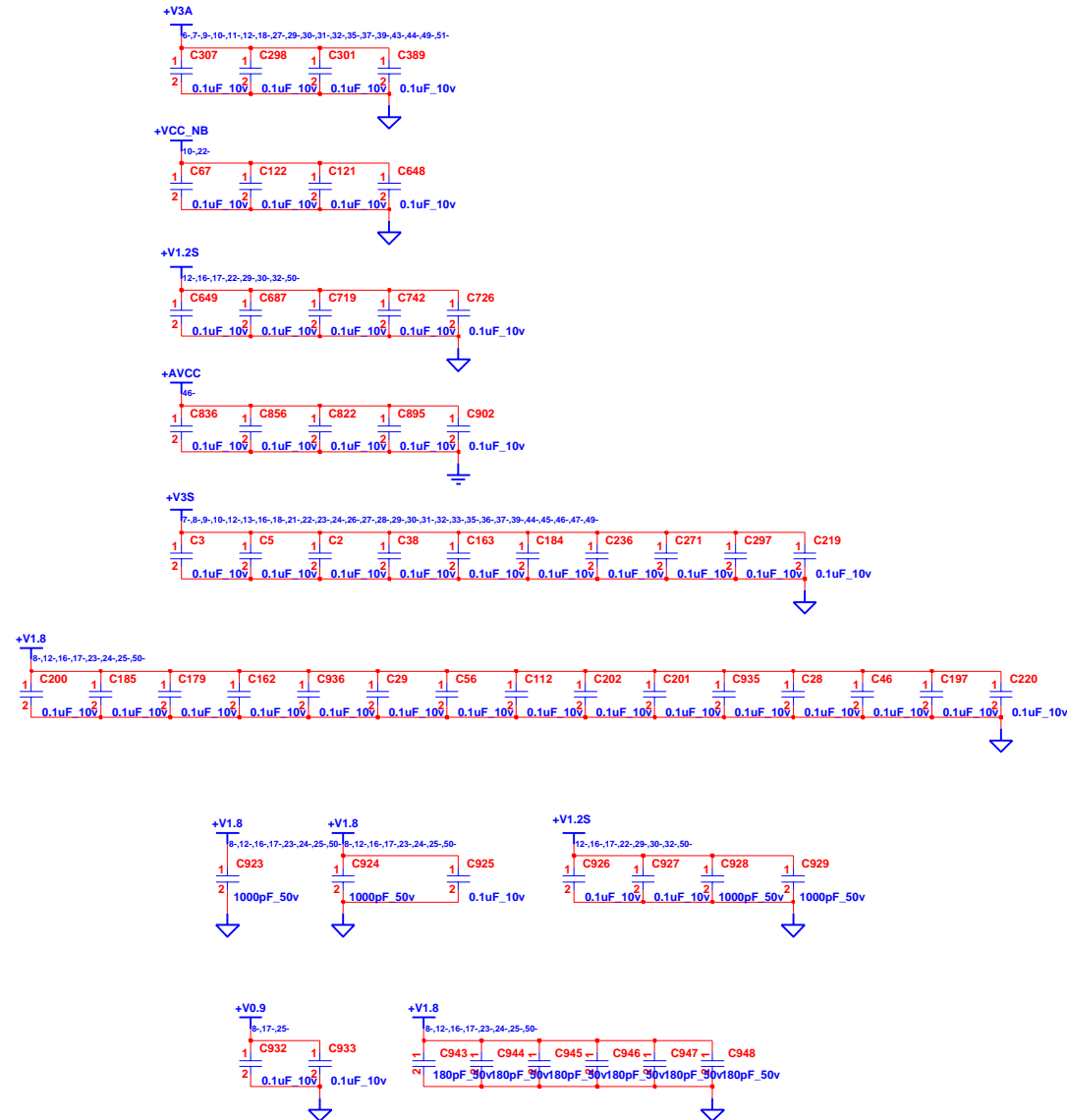
INVENTEC			
TITLE: Phoenix/Sacramento 10A2P AZALIA CODEC			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A21750	REV: X01
CHANGE by: Drawer Name		17-Sep-2007	
SHEET: 46		OF: 53	





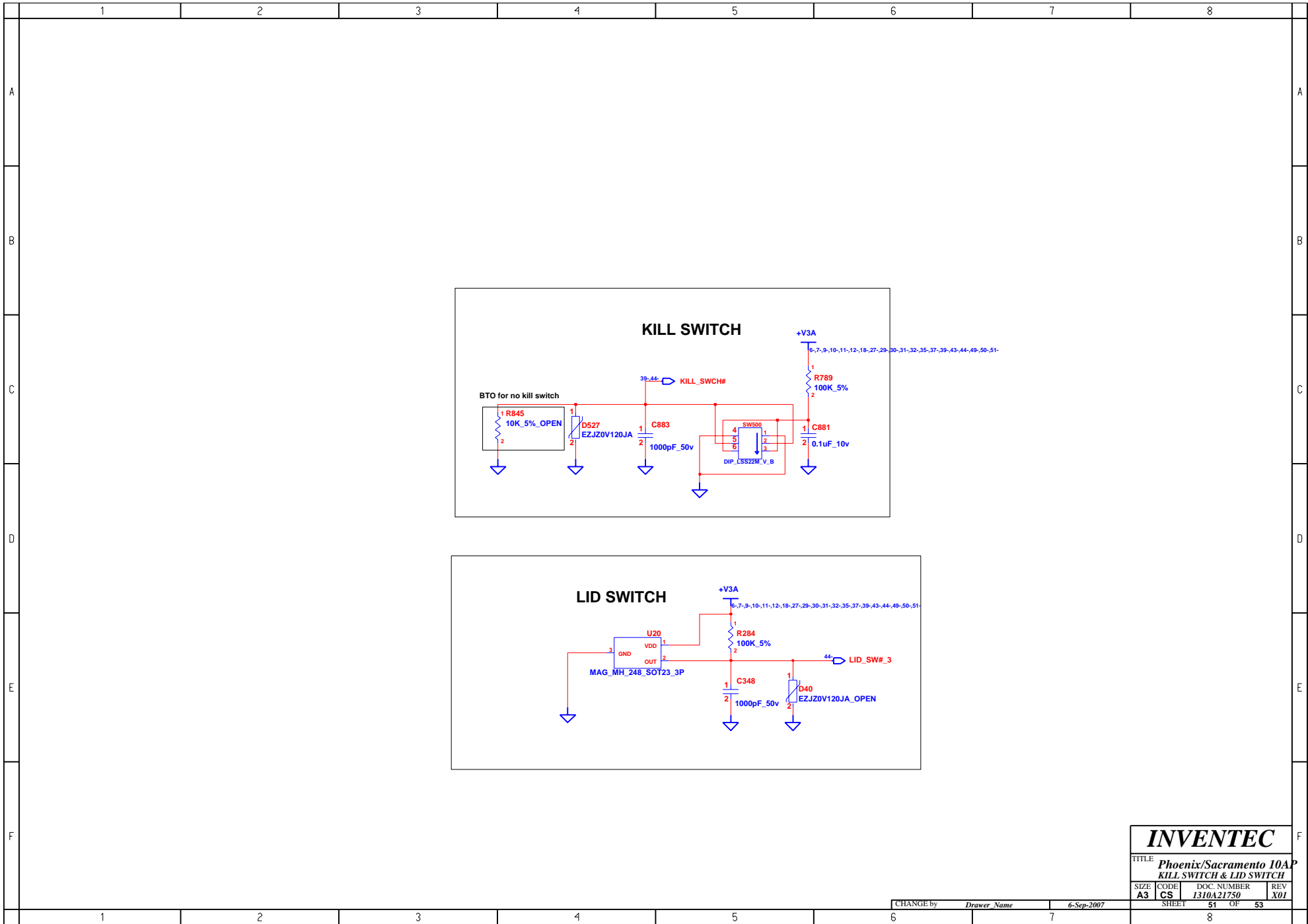


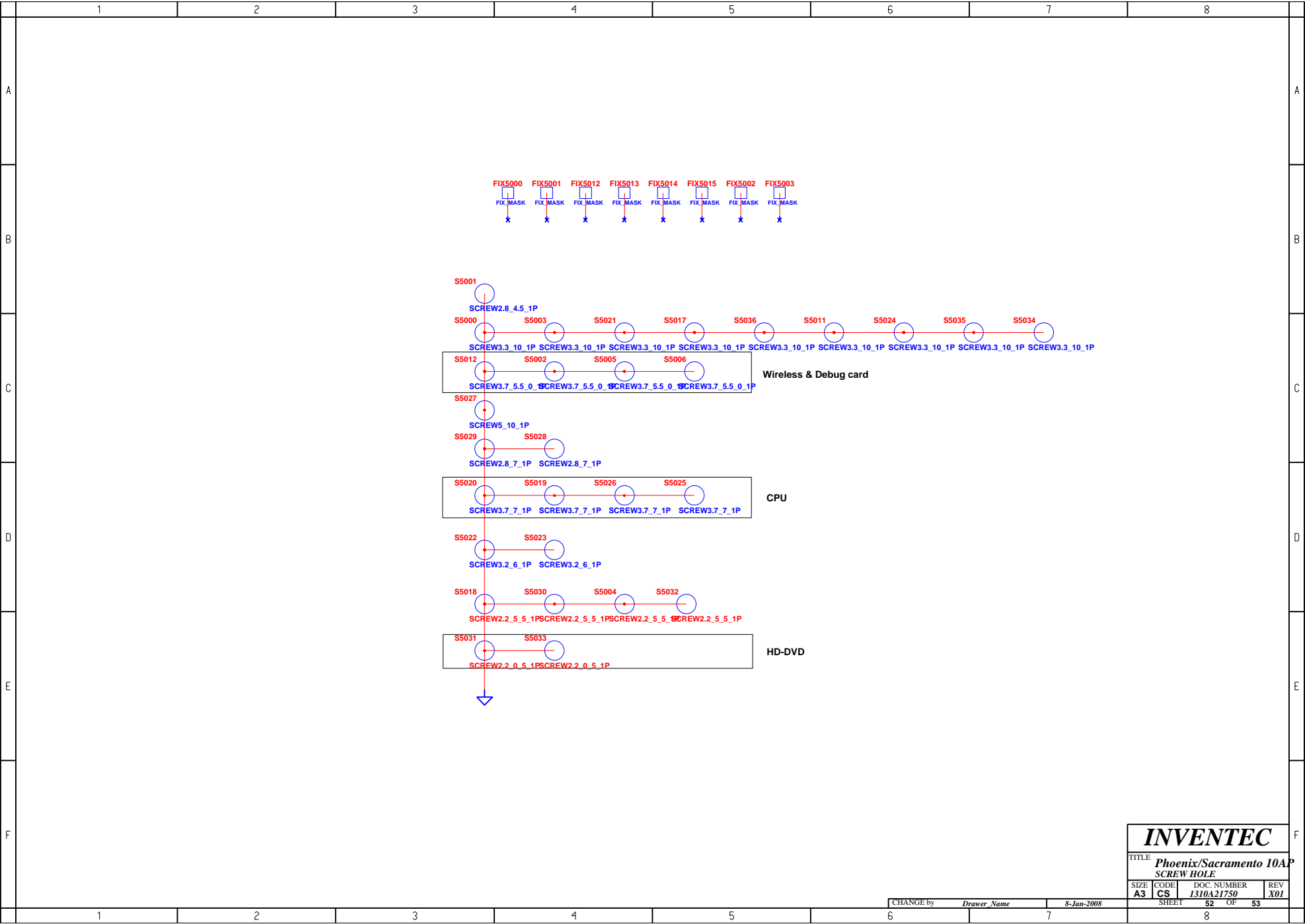
EMI CAPACITOR



INVENTEC				
TITLE: Phoenix/Sacramento 10A TOUCH PAD BOARD				
SIZE: A3	CODE: CS	DOC. NUMBER: I310A21750	REV: X01	
SHEET: 50		OF: 53		

CHANGE by: *Drawer Name* 28-Sep-2007

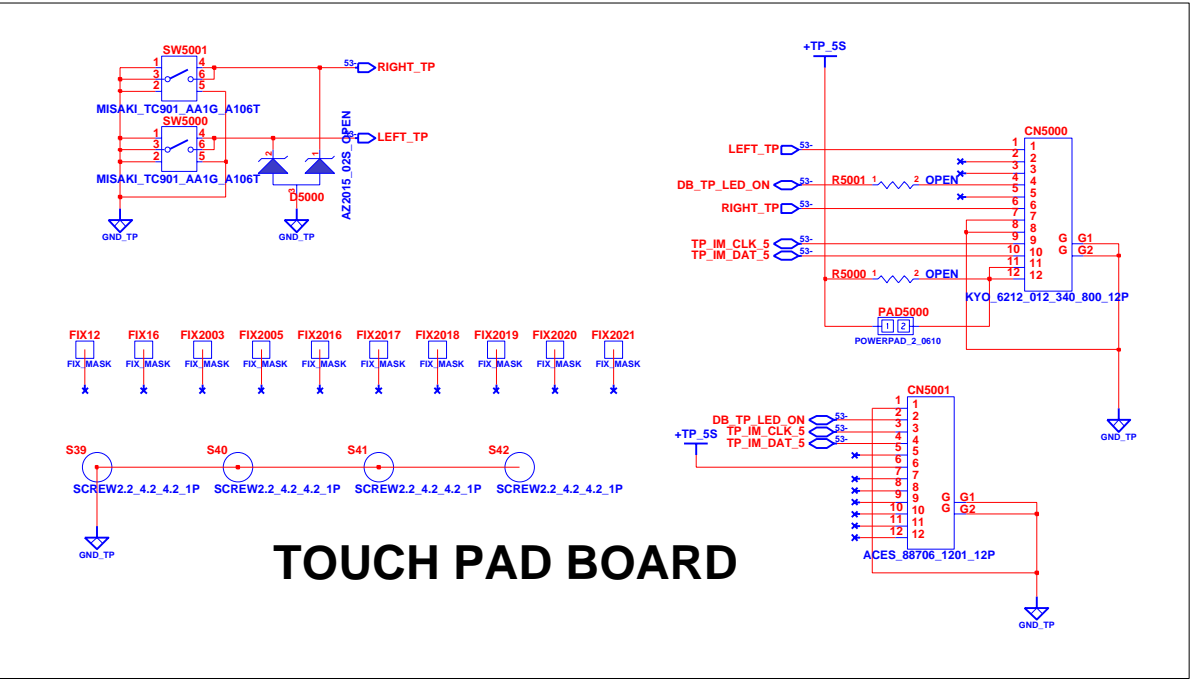
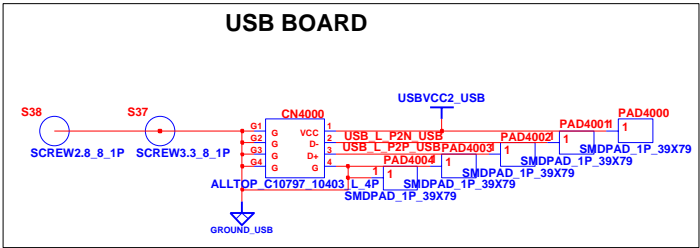
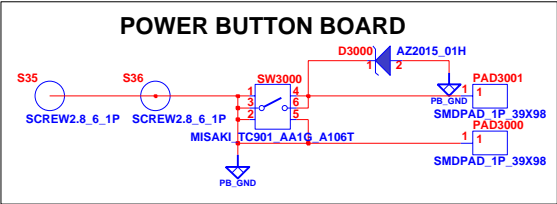




INVENTEC			
TITLE: Phoenix/Sacramento 10A2P SCREW HOLE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21750	X01

CHANGE by: *Drawer Name* 8-Jan-2008

SHEET 52 OF 53



INVENTEC			
TITLE: Phoenix/Sacramento 10A²			
DAUGHTER BOARD			
SIZE: A3	CODE: CS	DOC. NUMBER:	REV:
SHEET: 53		OF: 53	

CHANGE by: 25-Feb-2008