

	1	2	3	4	5	6	7	8																																																																																			
A	THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF INVENTEC CORPORATION AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION, INVENTEC CORPORATION 2010 ALL RIGHT RESERVED								A																																																																																		
B	HSF Property : Halogen-Free								B																																																																																		
C	<div>JOURNEY MV BUILD 2010.12.12</div>								C																																																																																		
D									D																																																																																		
E									E																																																																																		
F									F																																																																																		
	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																												DATE	CHANGE NO.	REV			<table><tr><td>DRAWER</td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td></tr><tr><td>DESIGN</td><td></td><td></td><td></td><td></td></tr><tr><td>CHECK</td><td></td><td></td><td></td><td></td></tr><tr><td>RESPONSIBLE</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">SIZE = 3</td></tr><tr><td colspan="5">FILE NAME : XXXX-XXXXXX-XX</td></tr><tr><td>P/N</td><td colspan="4">XXXXXXXXXXXX</td></tr></table>	DRAWER	EE	DATE	POWER	DATE	DESIGN					CHECK					RESPONSIBLE					SIZE = 3					FILE NAME : XXXX-XXXXXX-XX					P/N	XXXXXXXXXXXX				<table><tr><td colspan="4">INVENTEC</td></tr><tr><td colspan="4">TITLE JOURNEY</td></tr><tr><td>SIZE</td><td>CODE</td><td>DOC. NUMBER</td><td>REV</td></tr><tr><td>A3</td><td>CS</td><td>310A2406601-0-MTR</td><td>A01</td></tr><tr><td colspan="2">SHEET</td><td>1</td><td>OF 60</td></tr></table>	INVENTEC				TITLE JOURNEY				SIZE	CODE	DOC. NUMBER	REV	A3	CS	310A2406601-0-MTR	A01	SHEET		1	OF 60	
DATE	CHANGE NO.	REV																																																																																									
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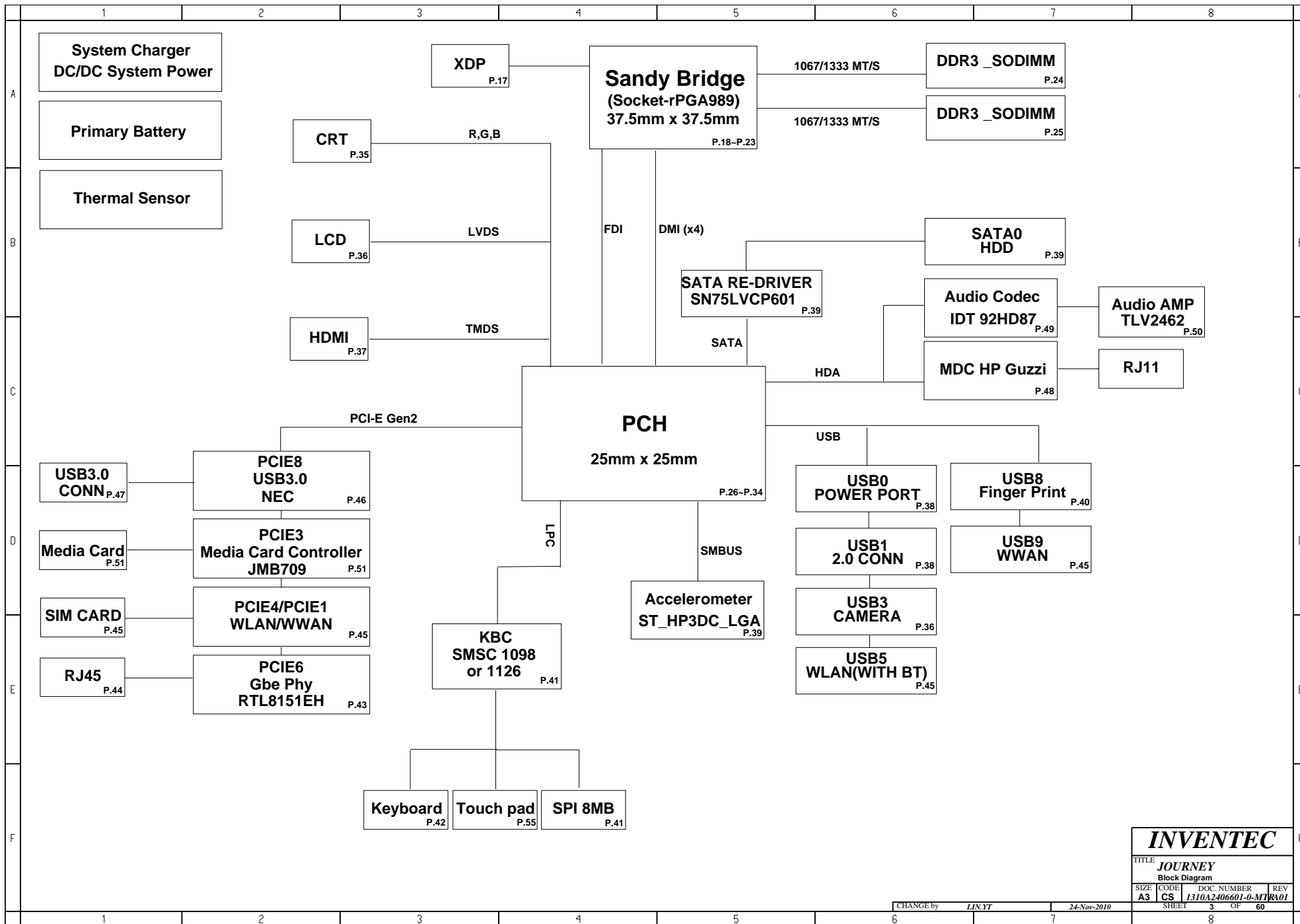
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6- SELECT & BATTERY CONN	27- PCH2	56- DB-POWER BOARD
7- SYSTEM POWER(3V/5V)	28- PCH3	57- DB PICK BOARD
8- SYSTEM POWER(+V1.5/+V0.75S)	29- PCH4	58- DB LAUNCH BOARD
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18- SANDY BRIDGE1	39- SATA CONN & G-SENSOR	
19- SANDY BRIDGE2	40-FINGER PRINTER CNTR	
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21- SANDY BRIDGE3	42- Keyboard/ Point Stick	
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	52- POWER / BATTERY / Wireless LED	
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INVENTEC

TITLE JOURNEY Index			
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CHANGE by **LIN.YT** 29-Sep-2010



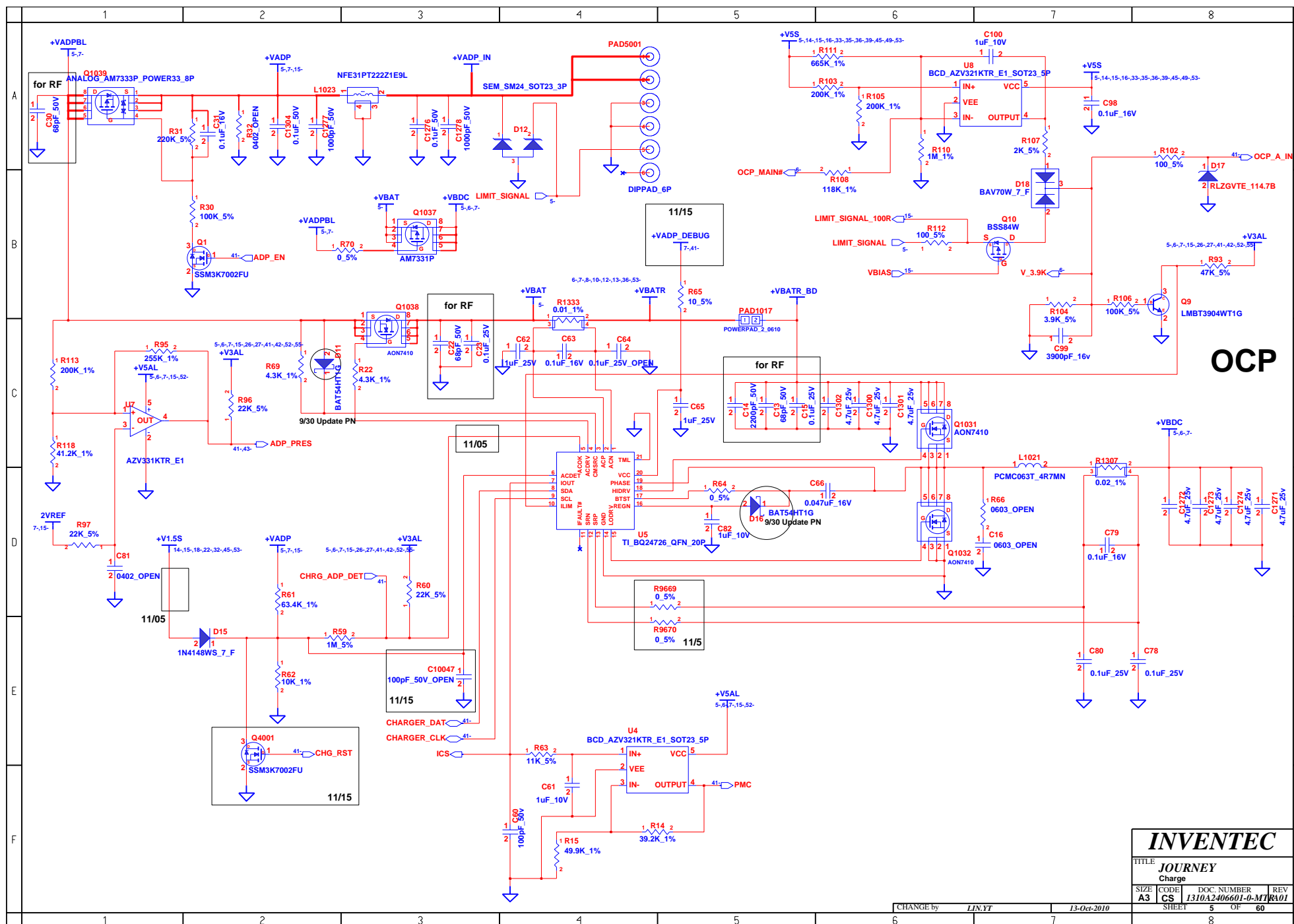
INVENTEC

TITLE **JOURNEY**
Block Diagram

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	R01

CHANGE by **LIN.YT** 24-Nov-2010

SHEET 3 OF 60



7.2A

Battery CONN

9/16 Update PN & Pin define

Turbo Boost

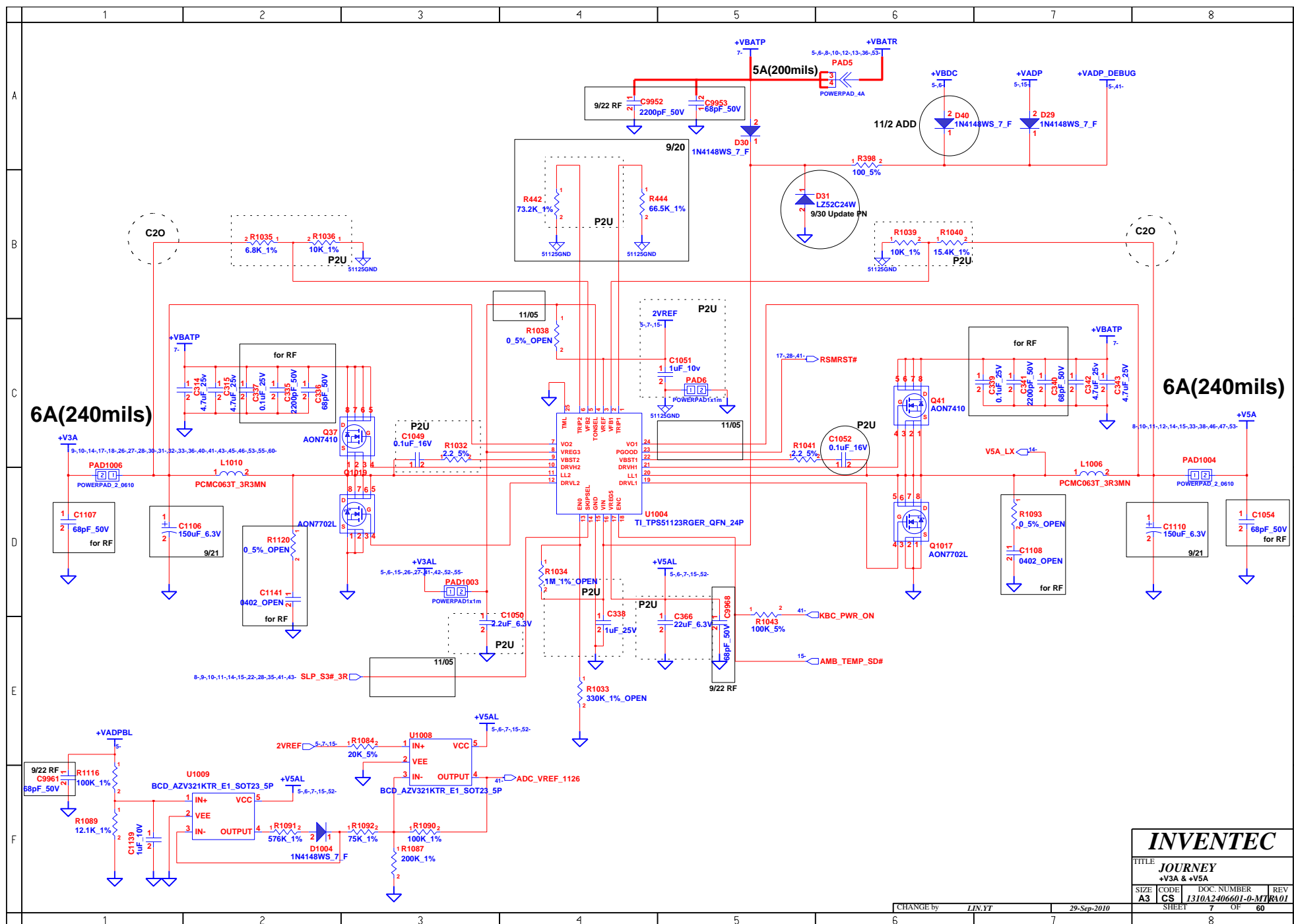
11/17 BOM Change to NA

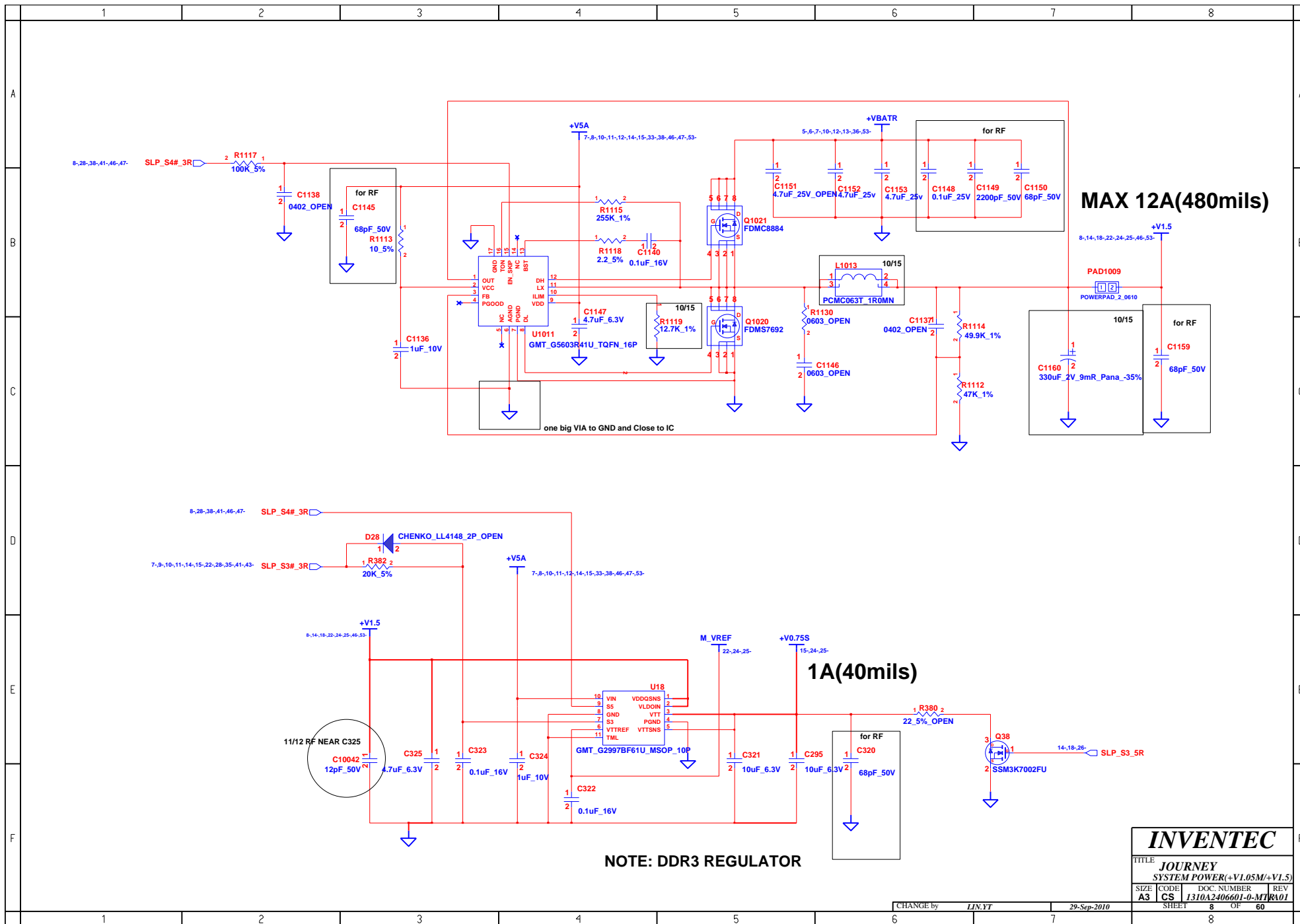
11/05

INVENTEC

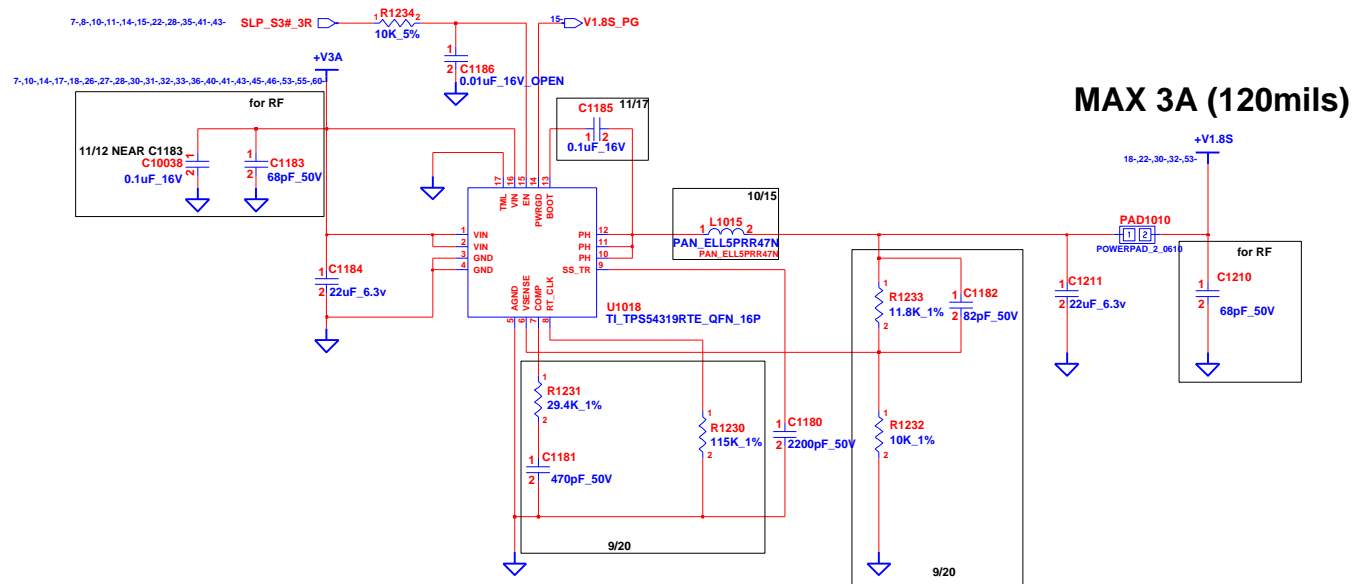
TITLE: JOURNEY			
SELECT & BATTERY CONN			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A2406601-0-MT	REV: R01
SHEET: 6		OF: 60	

CHANGE by: LIN.YT 29-Sep-2010

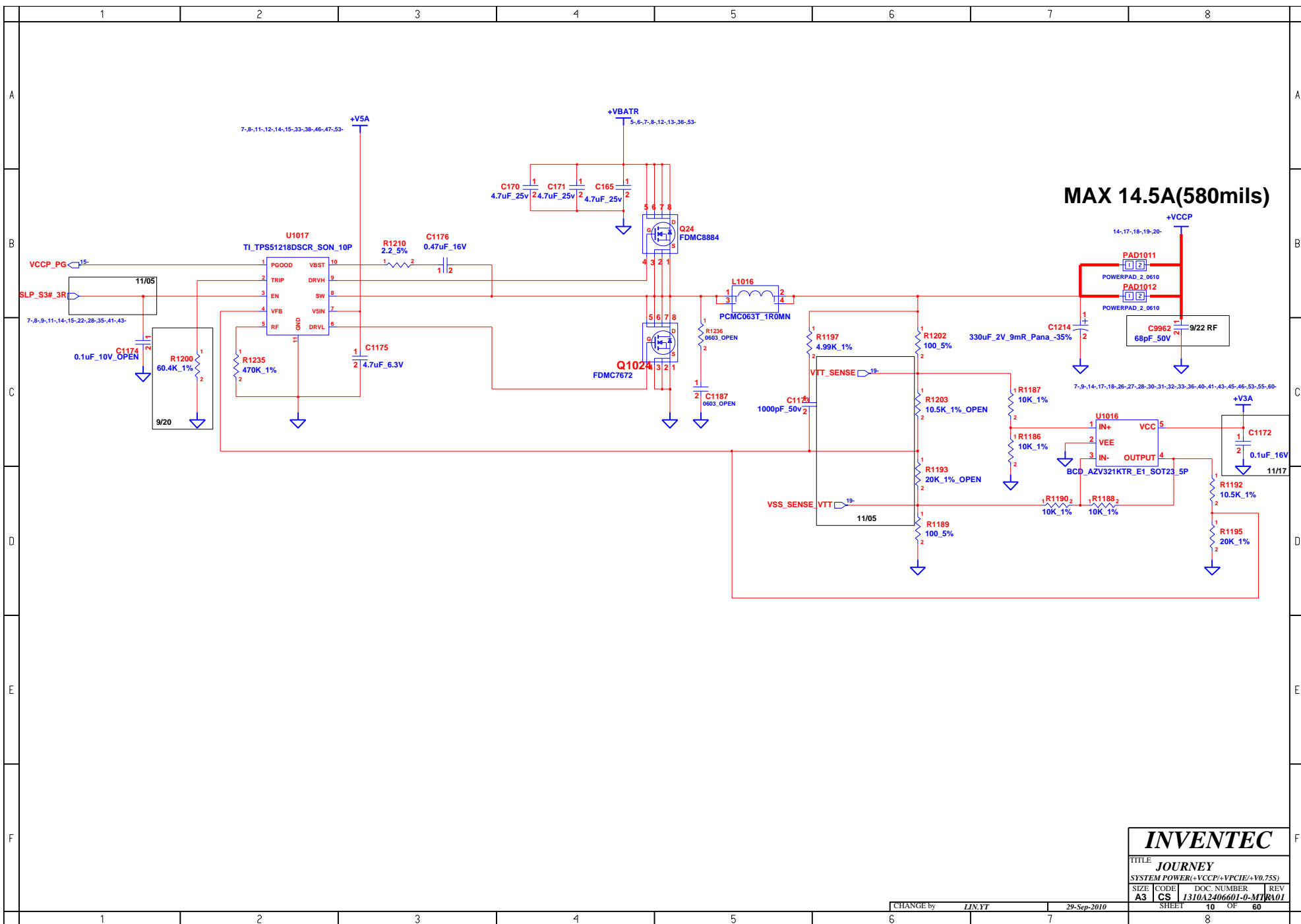


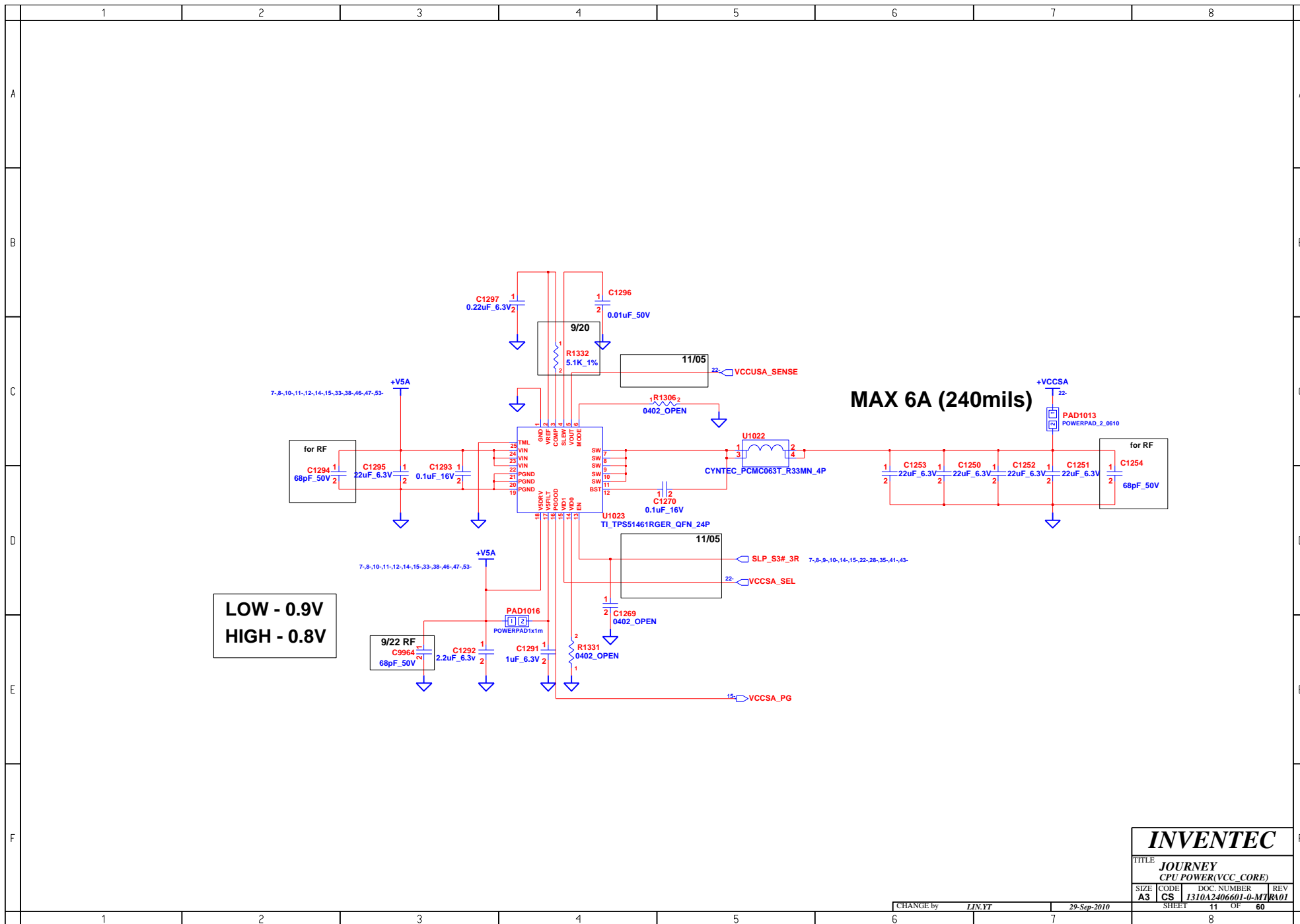


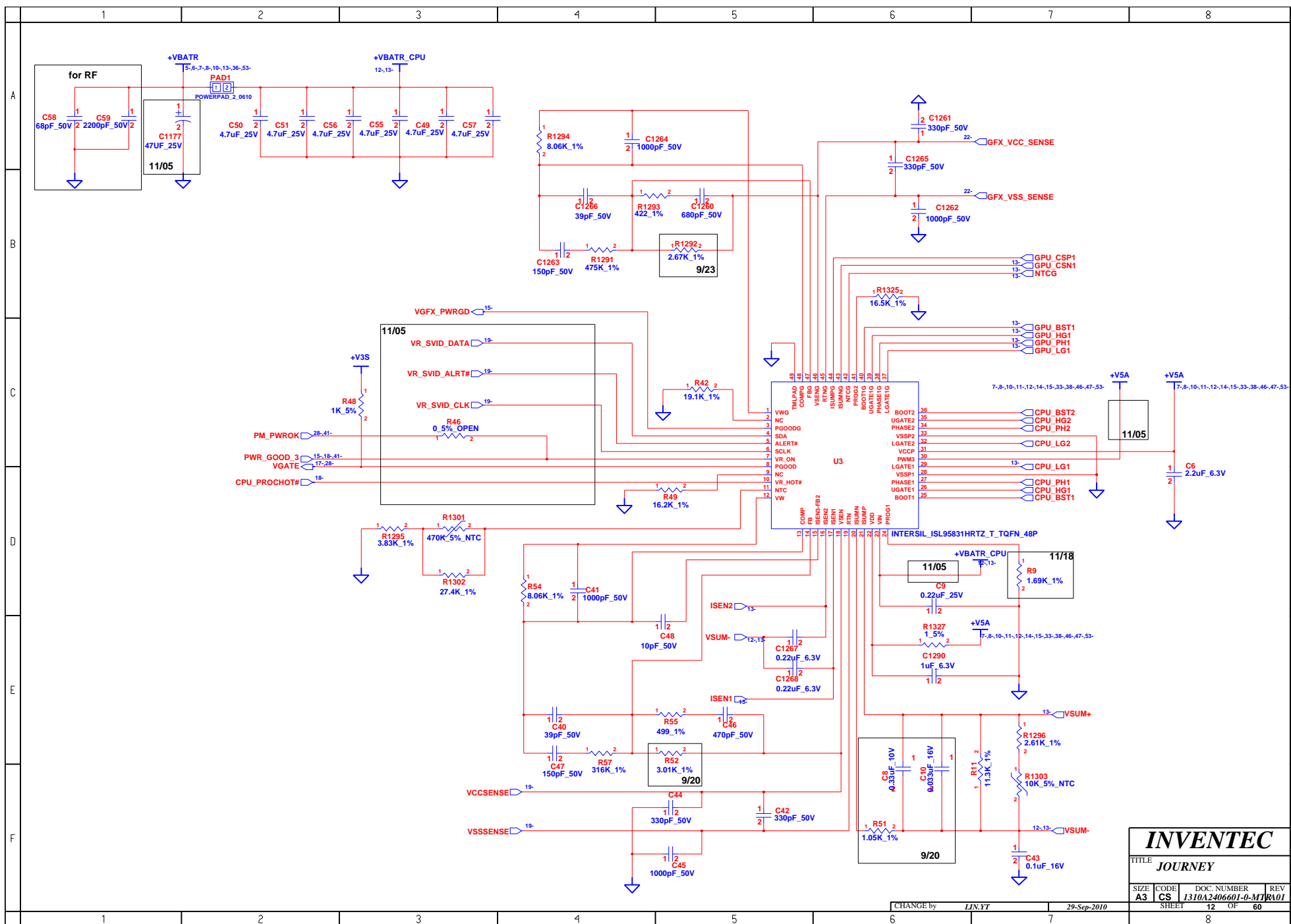
INVENTEC			
TITLE JOURNEY			
SYSTEM POWER(+V1.05M/+V1.5)			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MTR	REV R01
CHANGE by LJN.YT		29-Sep-2010	
SHEET 8		OF 60	



INVENTEC			
TITLE JOURNEY			
GPU POWER(VDD_CORE/+V1.8S)			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
CHANGE by LIN.YT		12-Nov-2010	
SHEET 9		OF 60	







VCC_CORE (SV 35W-->MAX 53A)

53A(2120mils)

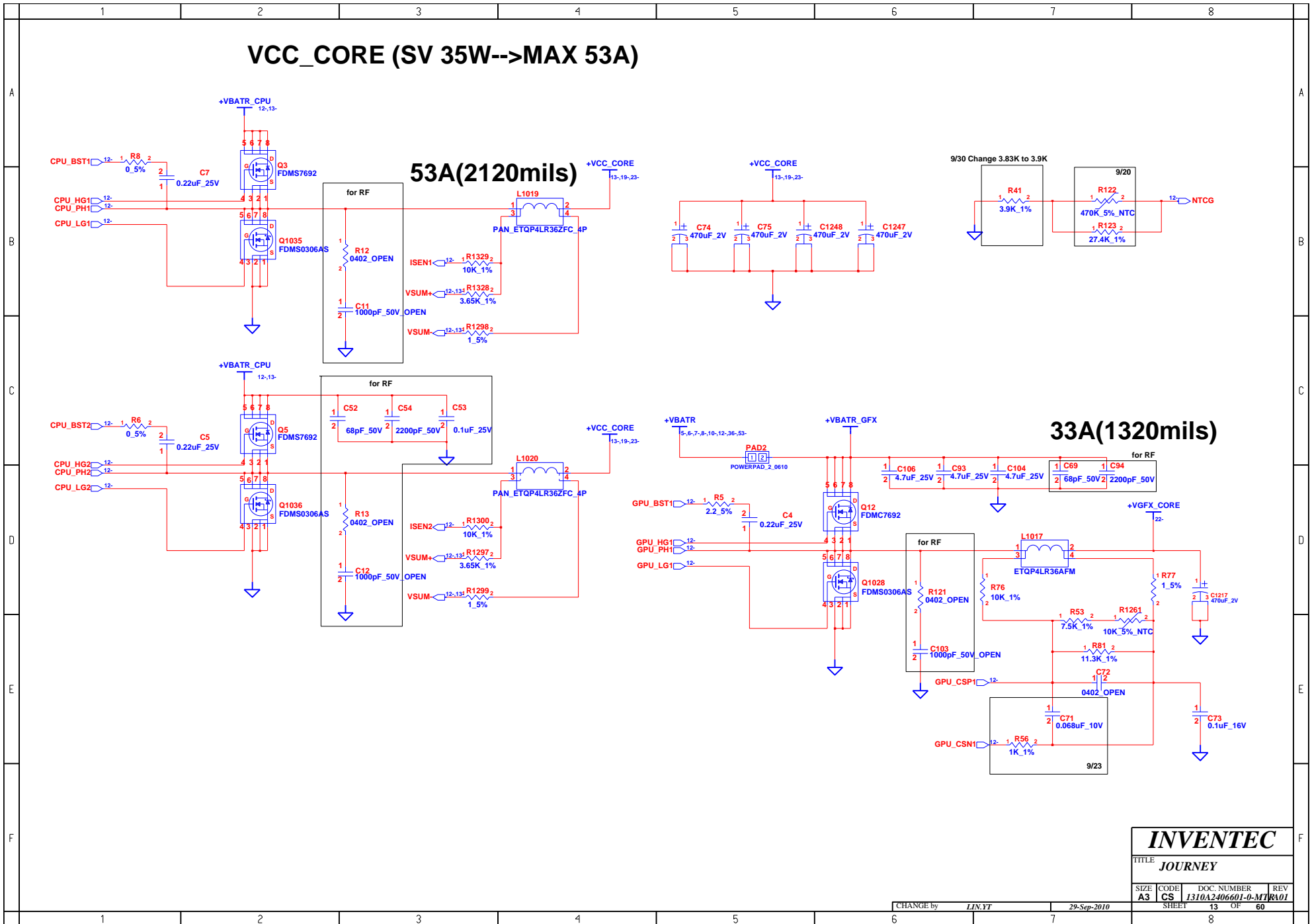
33A(1320mils)

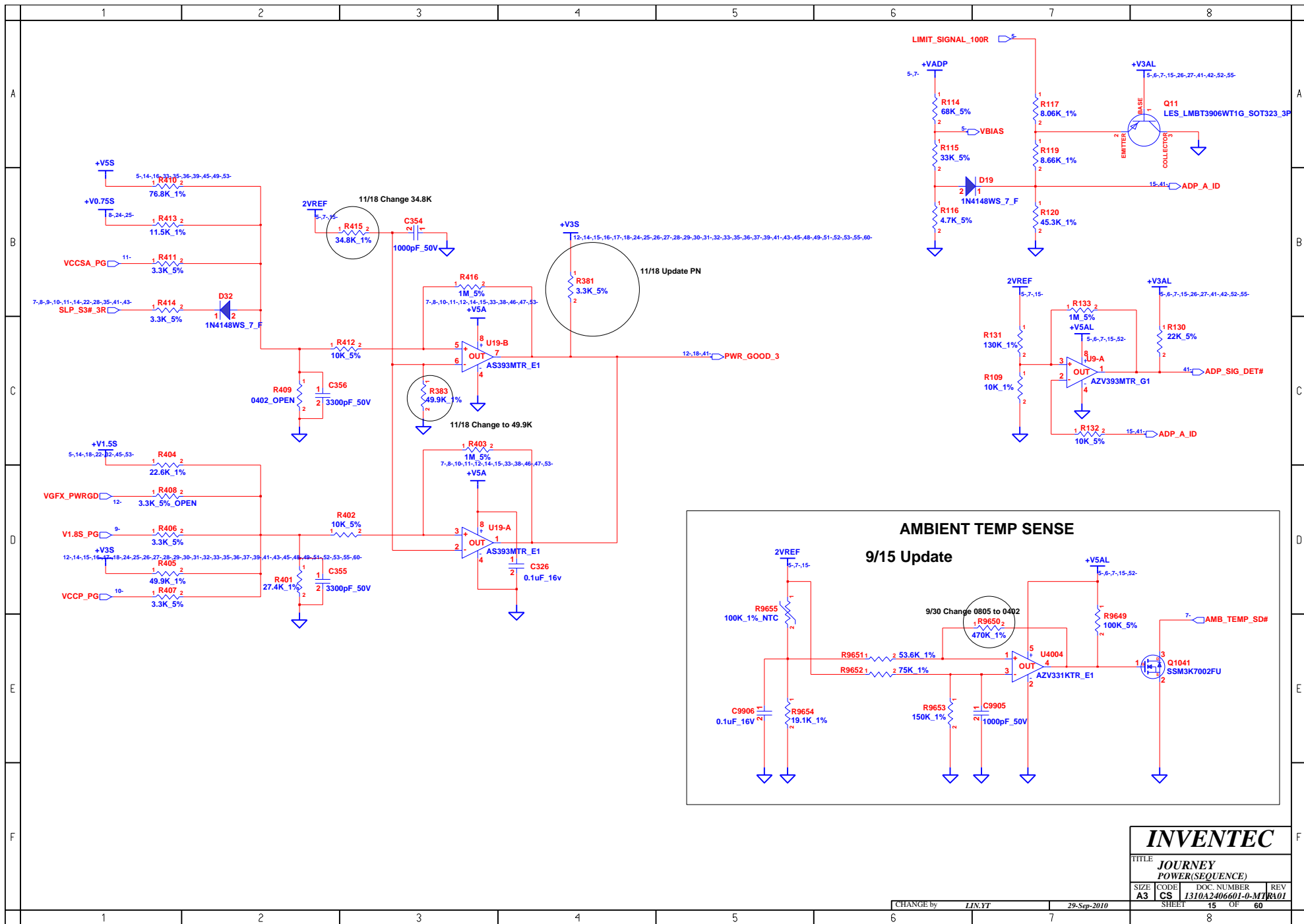
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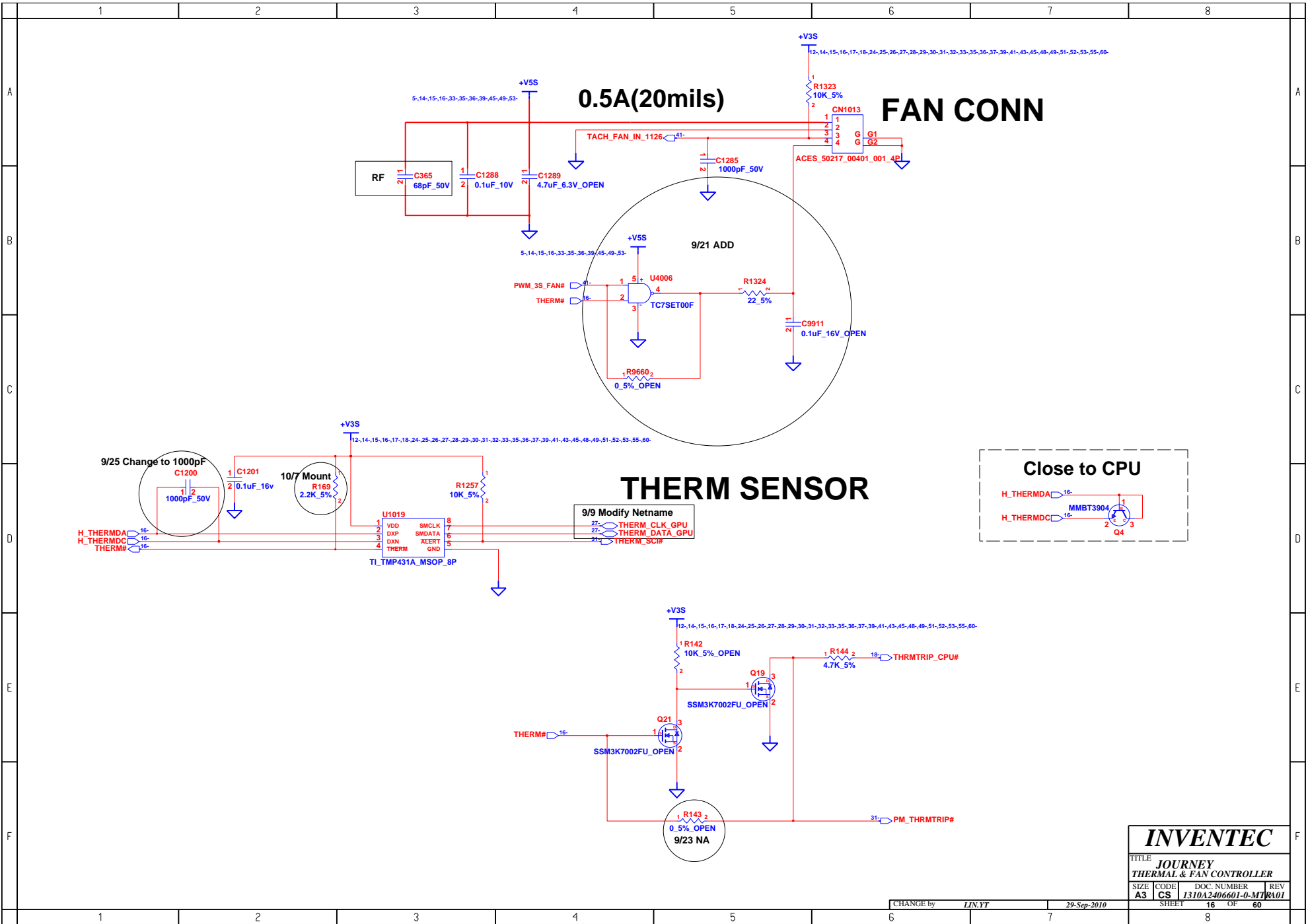
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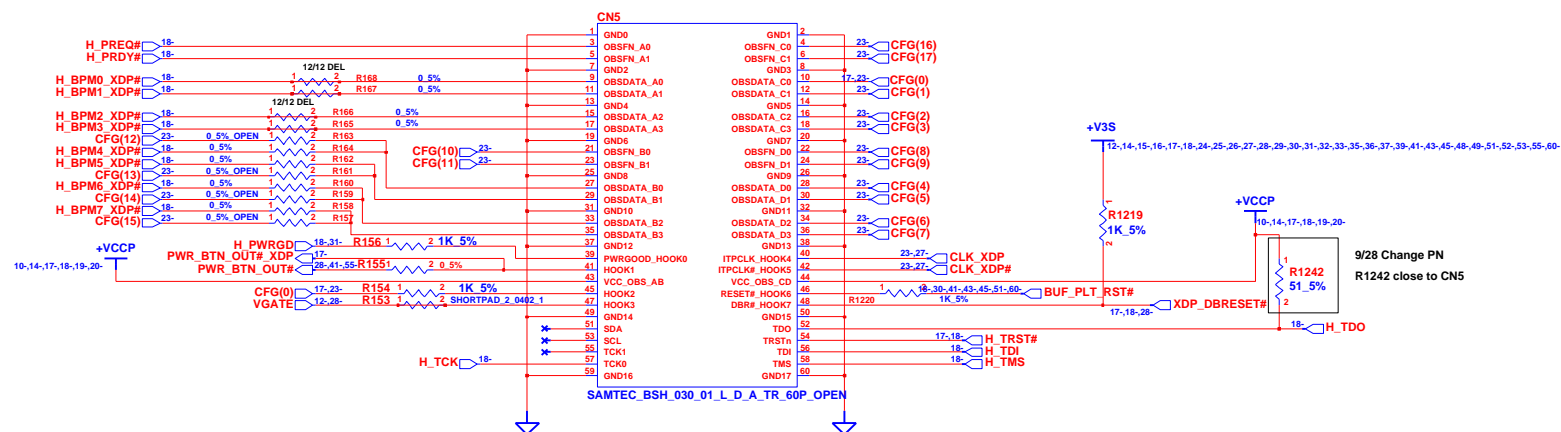
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
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CHANGE by **LIN.YT** 29-Sep-2010

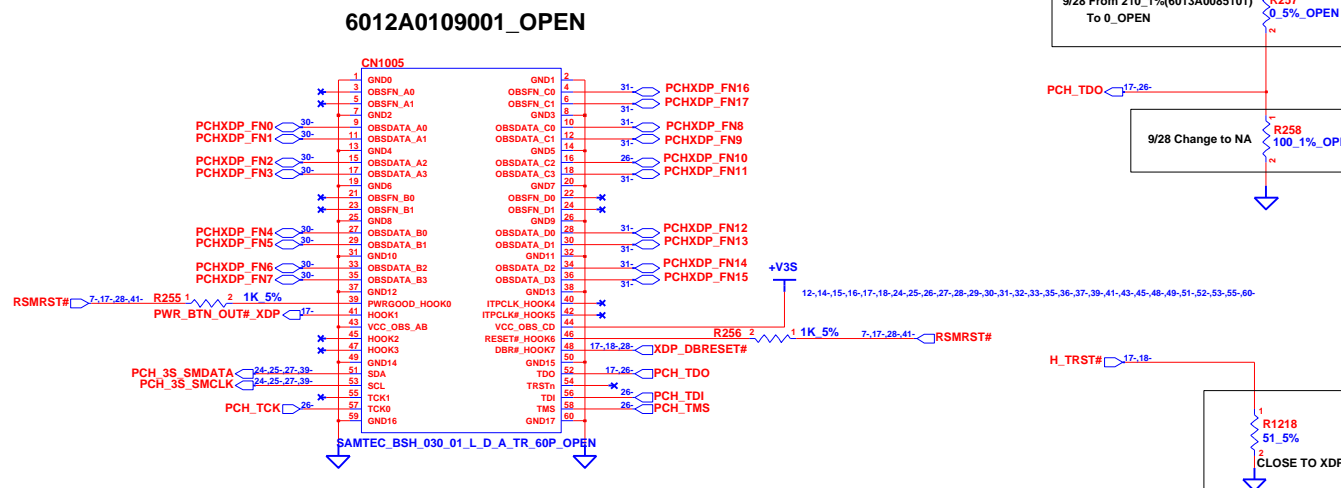








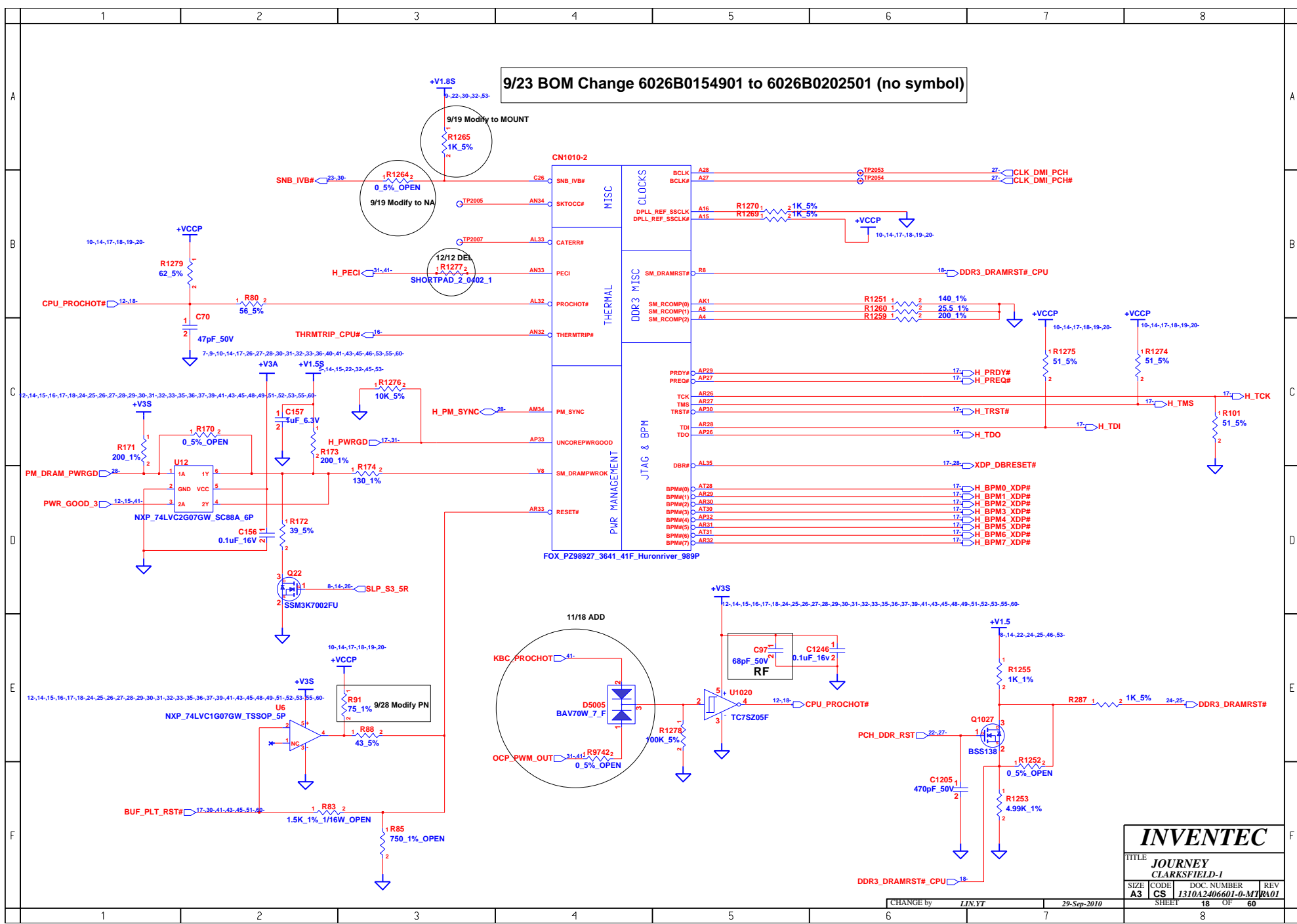
CPU XDP CONNECTOR



PCH XDP CONNECTOR

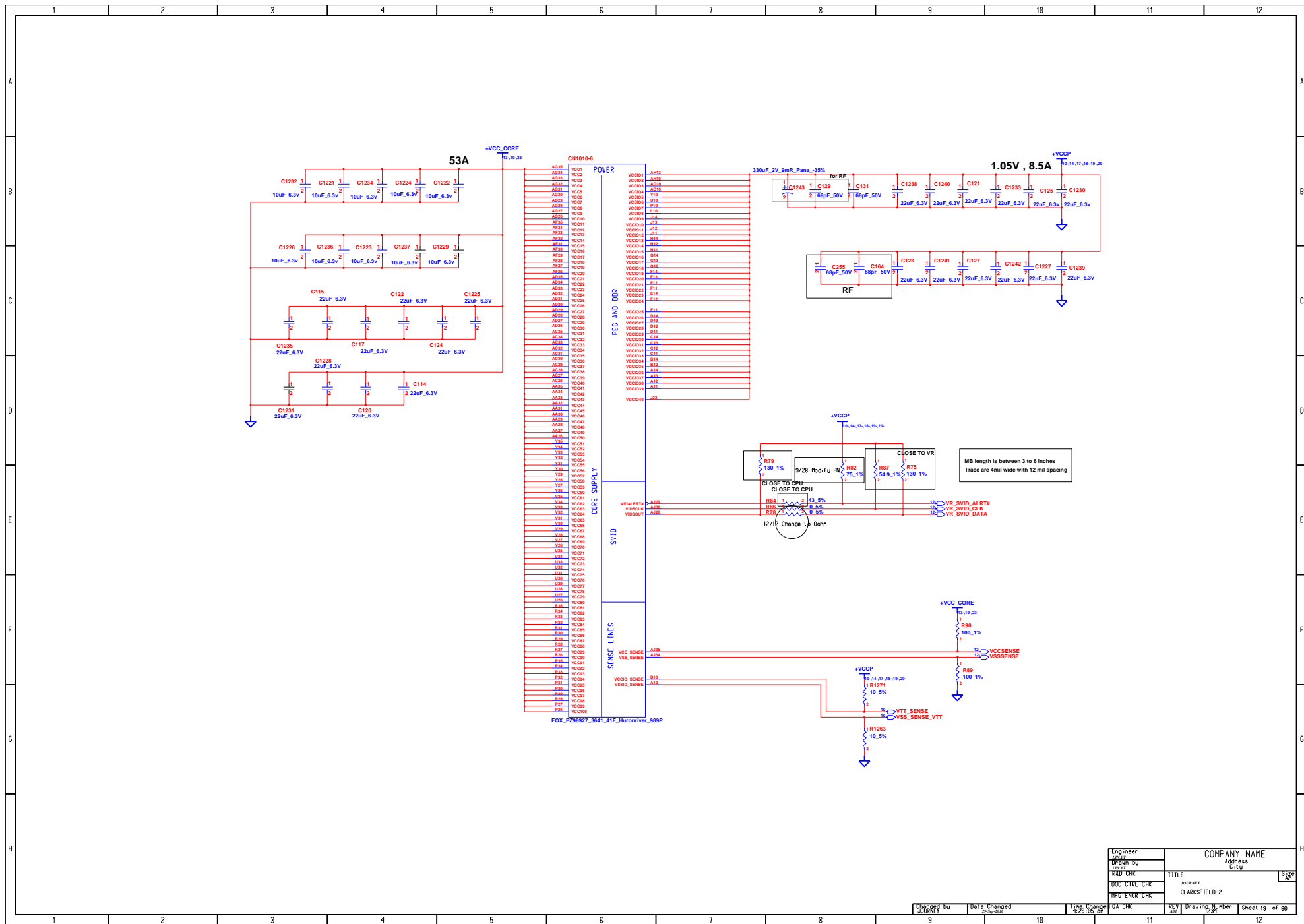
<i>INVENTEC</i>			
TITLE <i>JOURNEY</i>			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MTR	REV RA01
SHEET		17 OF	60

9/23 BOM Change 6026B0154901 to 6026B0202501 (no symbol)

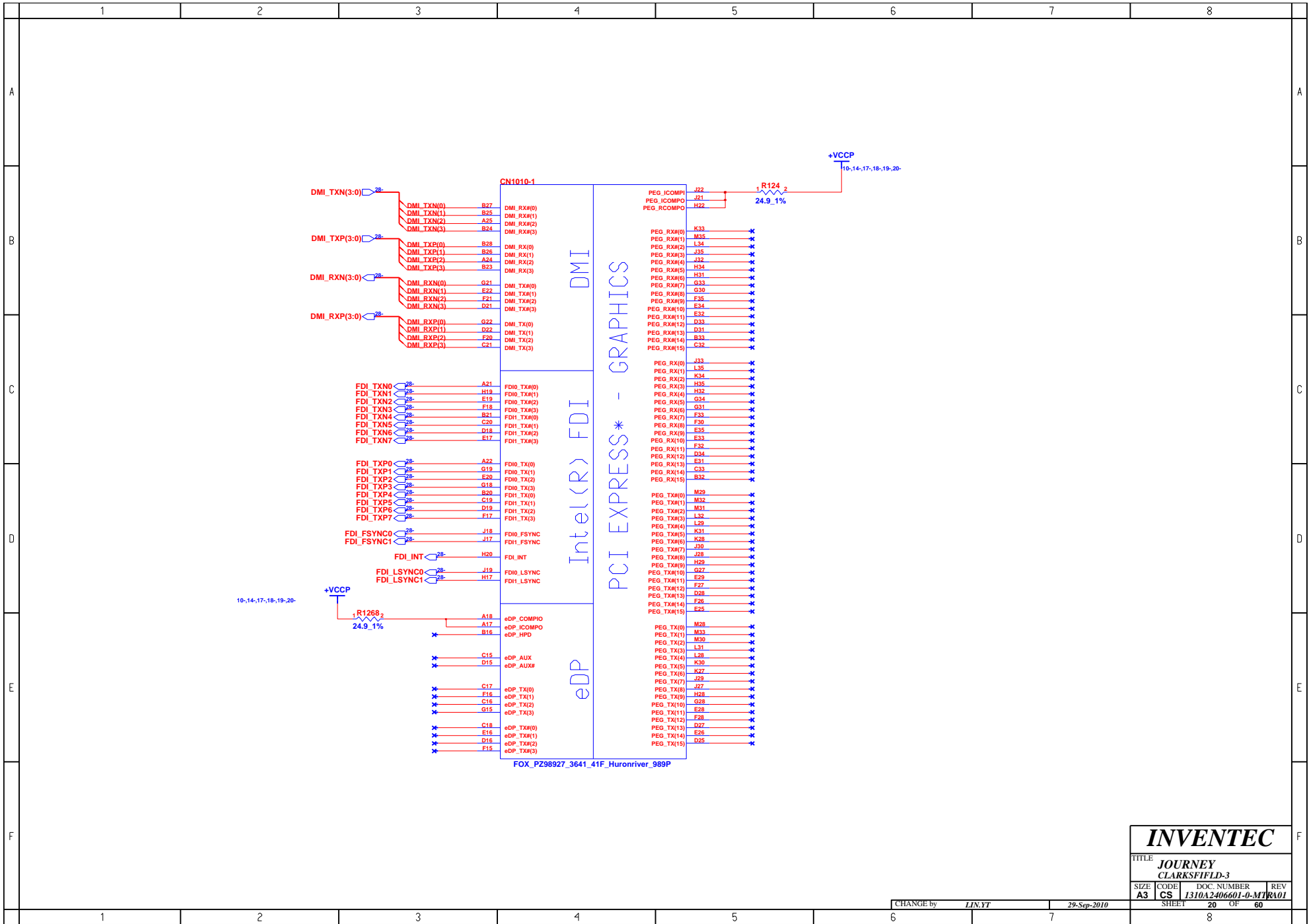


INVENTEC			
TITLE JOURNEY CLARKSFIELD-1			
SIZE A3	CODE CS	DOC NUMBER 1310A2406601-0-MT	REV R101
SHEET 18		OF 60	

CHANGE by LIN.YT 29-Sep-2010



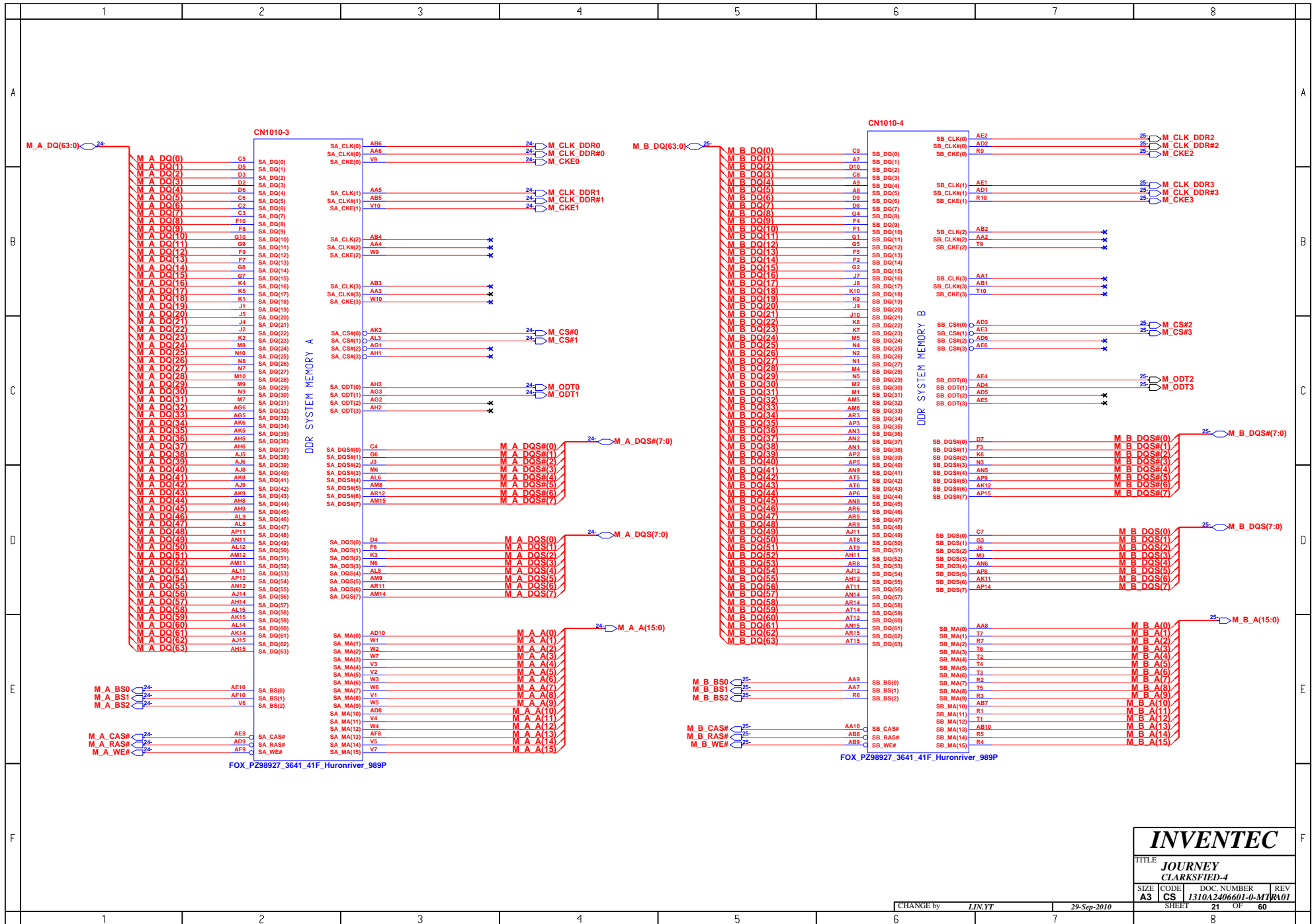
Engineer	DESIGN	COMPANY NAME
Drawn by	REVISED	Address
Check	REVISED	City
DOC CTRL CHK	DATE	STATE
ENG ENGR CHK	CLARKFIELD-2	
DATE		
Drawing Number	Sheet 19 of 60	



INVENTEC

TITLE			
JOURNEY CLARKSFIELD-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	R01
SHEET		20	OF 60

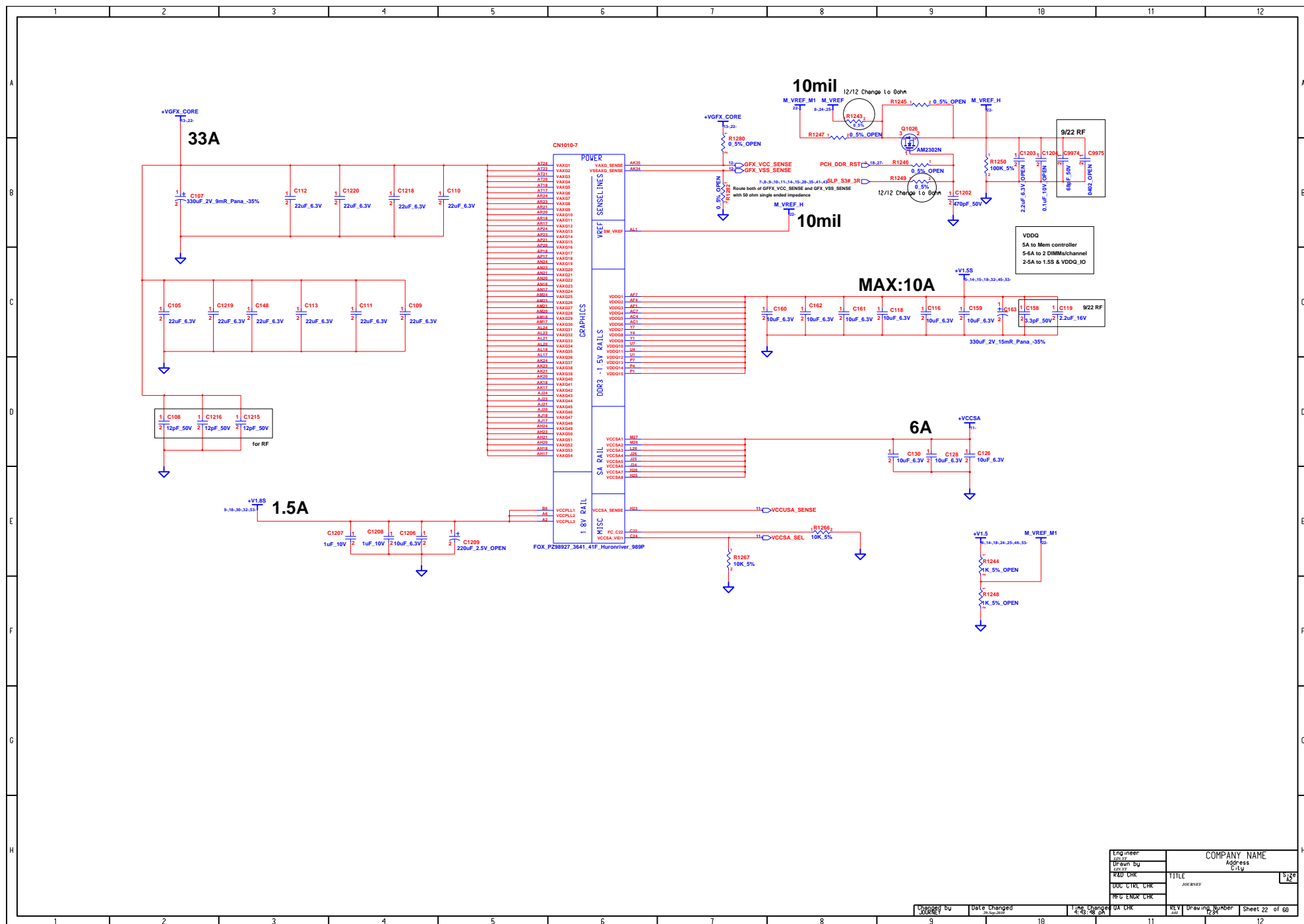
CHANGE by LIN.YT 29-Sep-2010

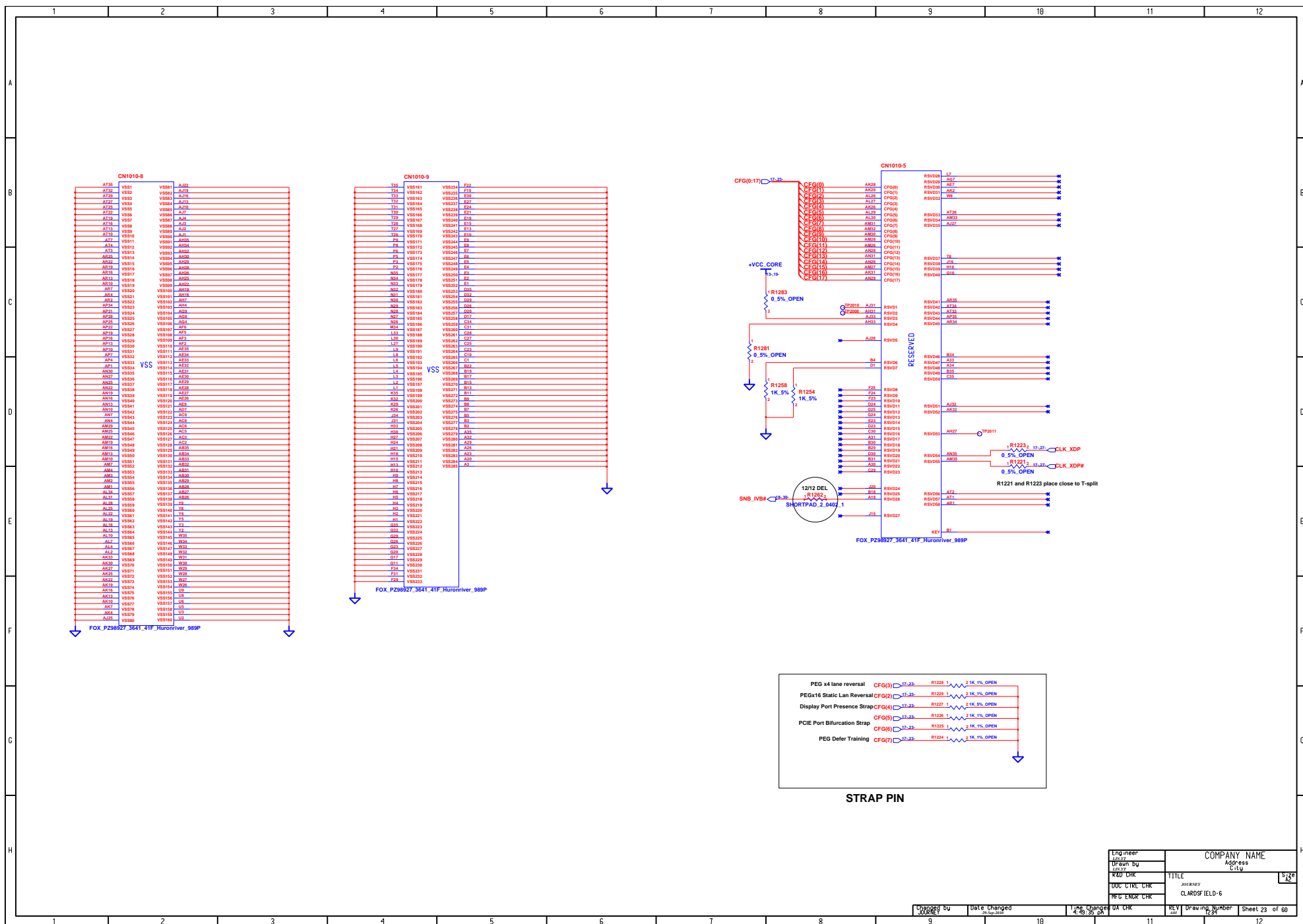


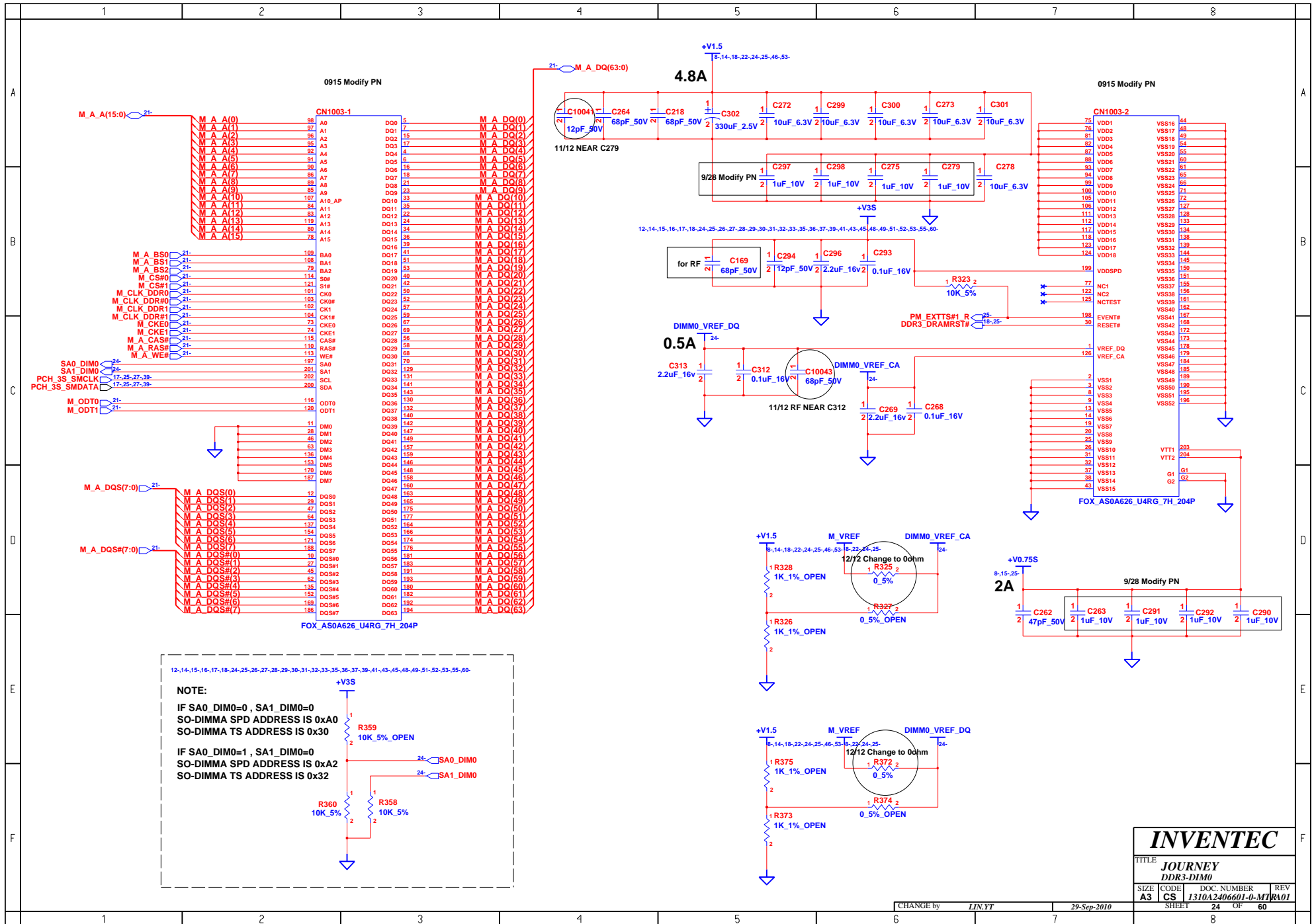
INVENTEC

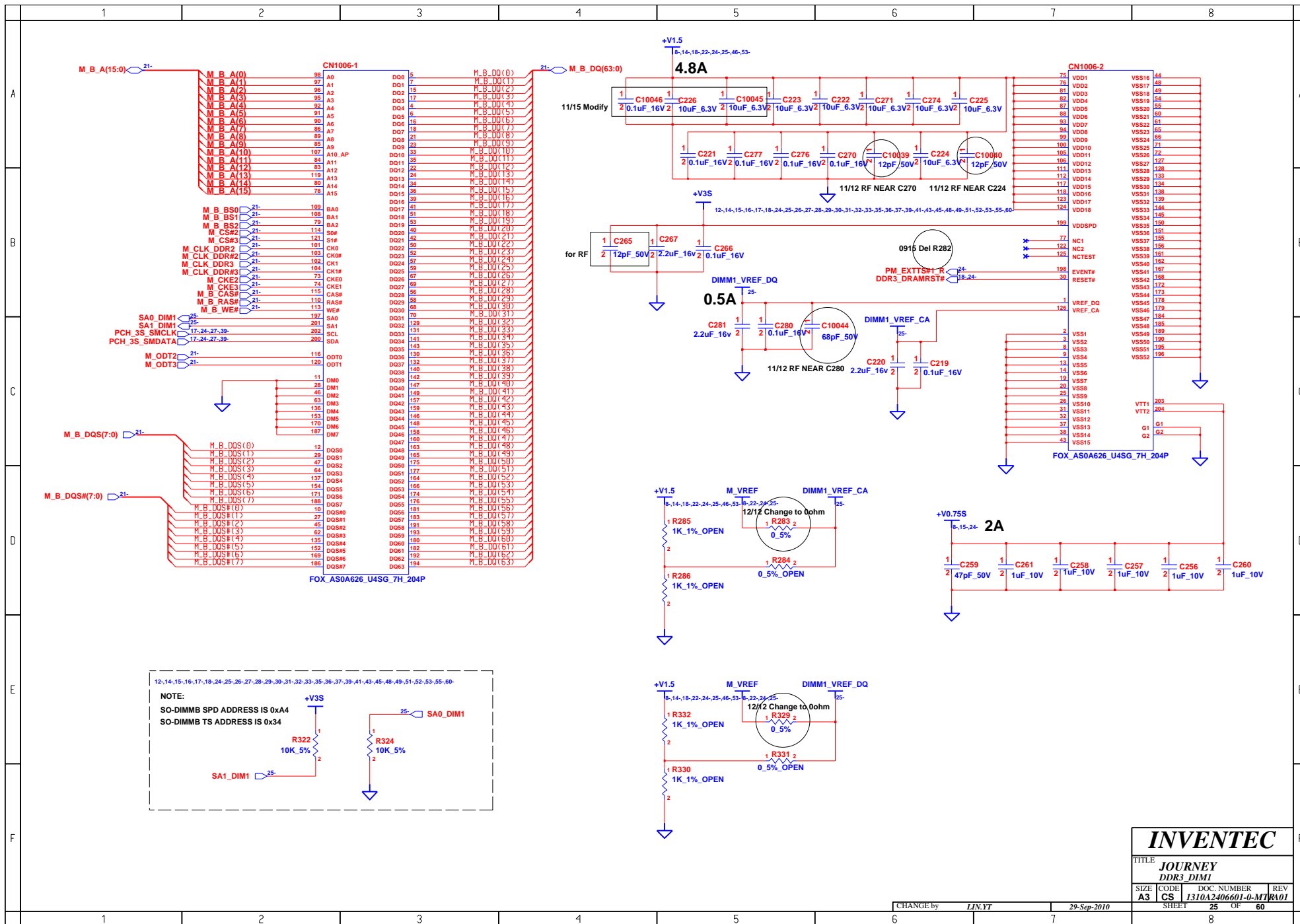
TITLE: JOURNEY CLARKSFIED-4			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A2406601-0-MT	REV: R01
SHEET: 21		OF: 60	

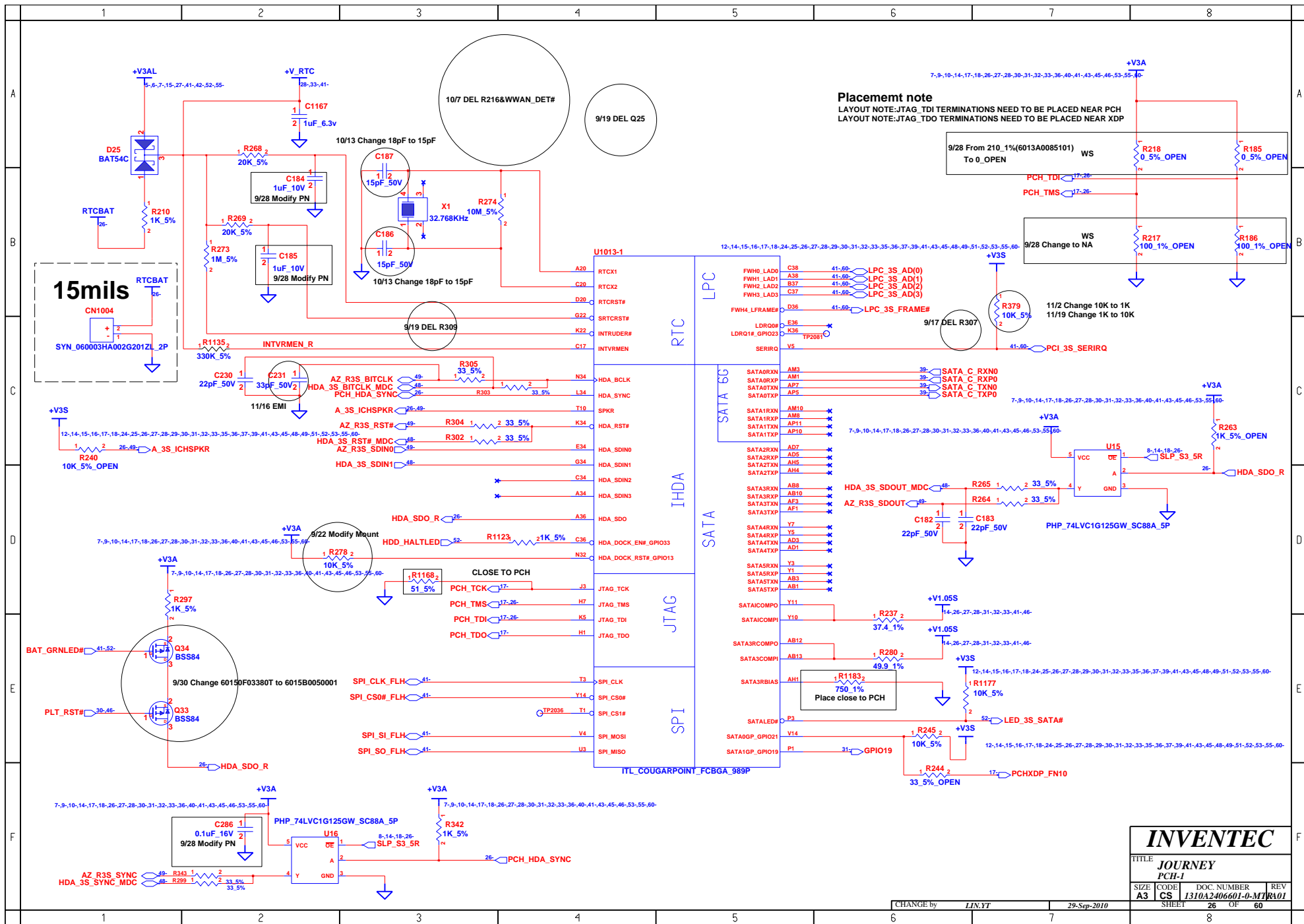
CHANGE by: LIN.YT 29-Sep-2010







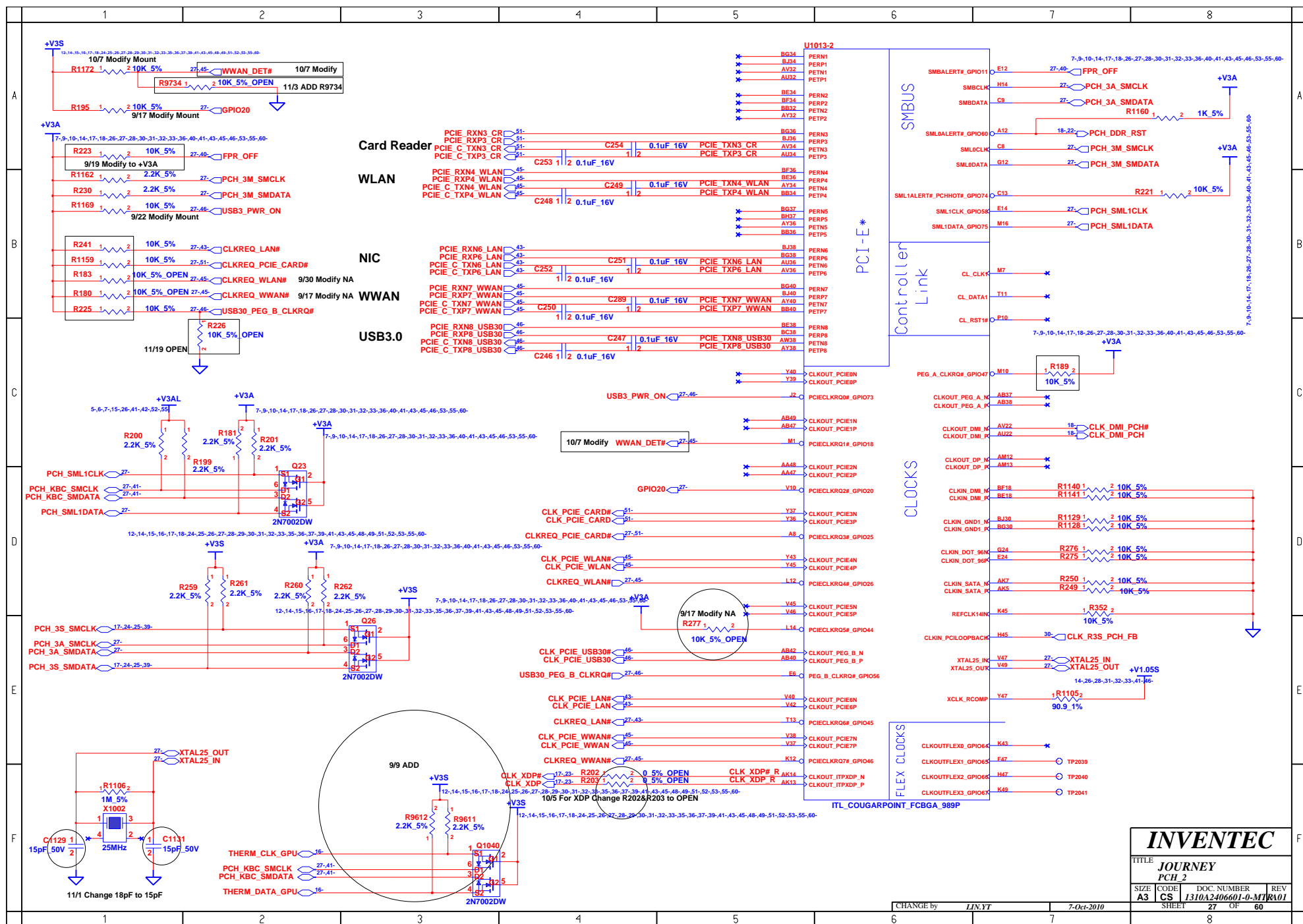


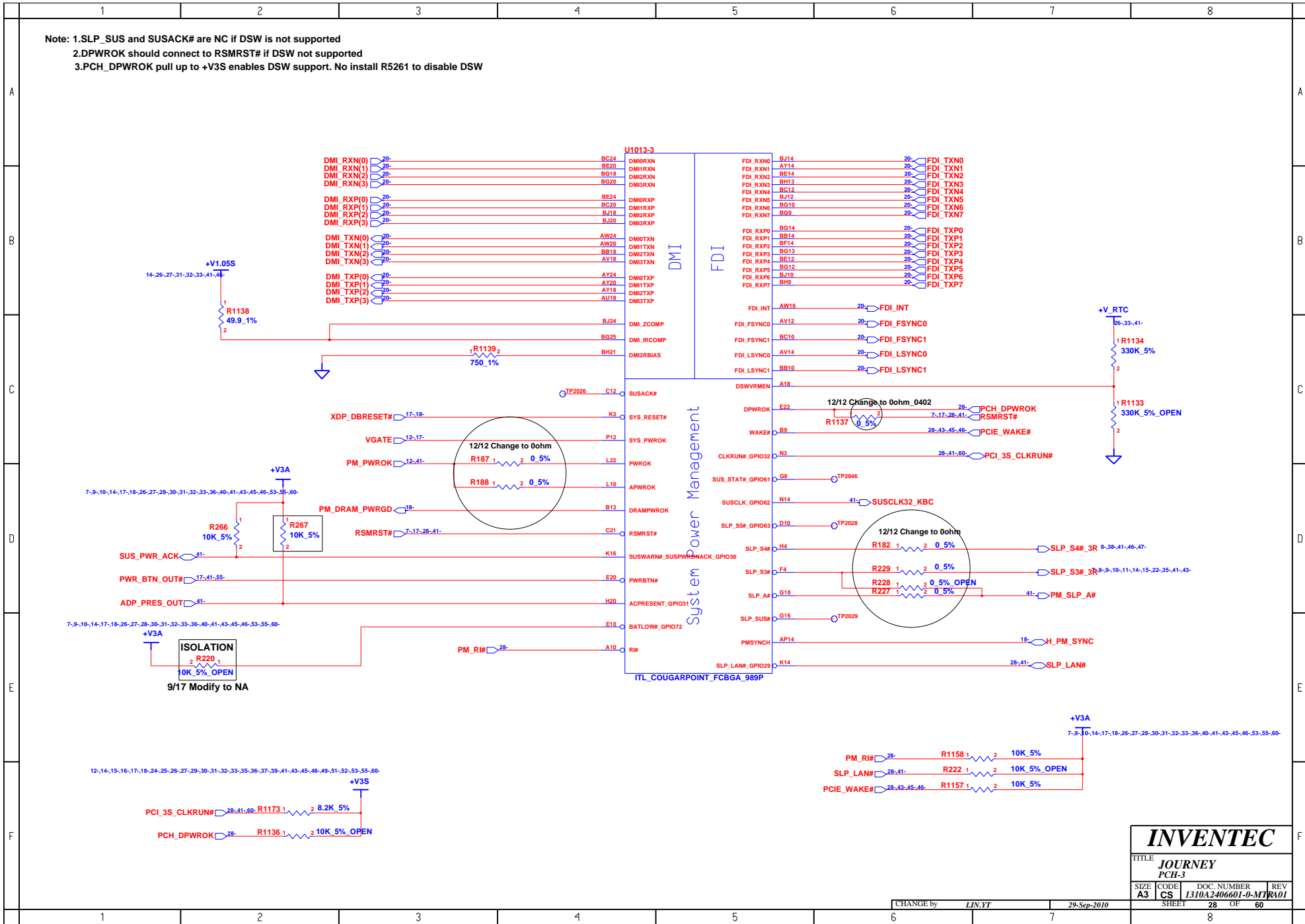


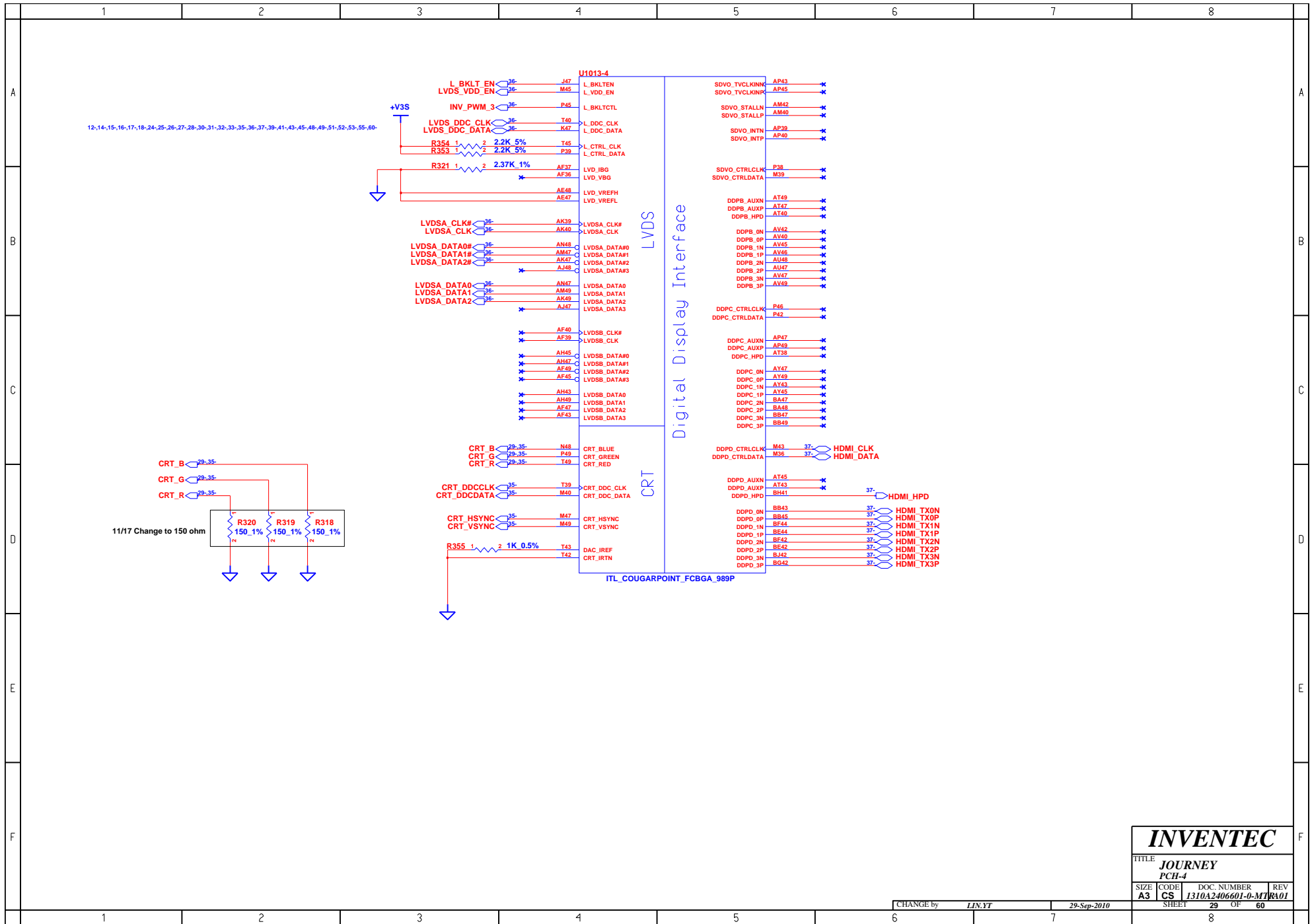
Placement note
LAYOUT NOTE: JTAG_TDI TERMINATIONS NEED TO BE PLACED NEAR PCH
LAYOUT NOTE: JTAG_TDO TERMINATIONS NEED TO BE PLACED NEAR XDP

INVENTEC			
TITLE JOURNEY			
PCH-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
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CHANGE by LIN.YT 29-Sep-2010



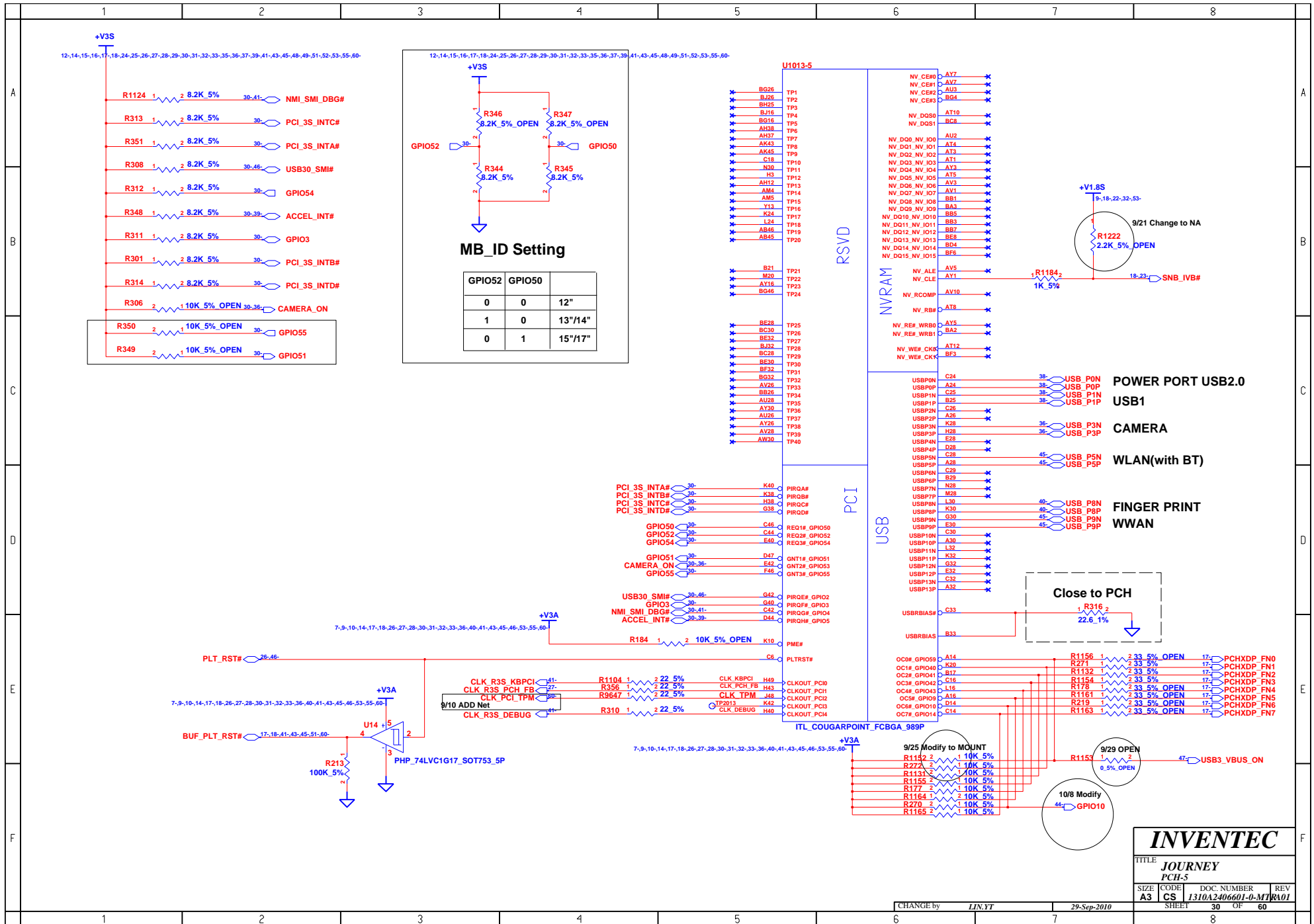


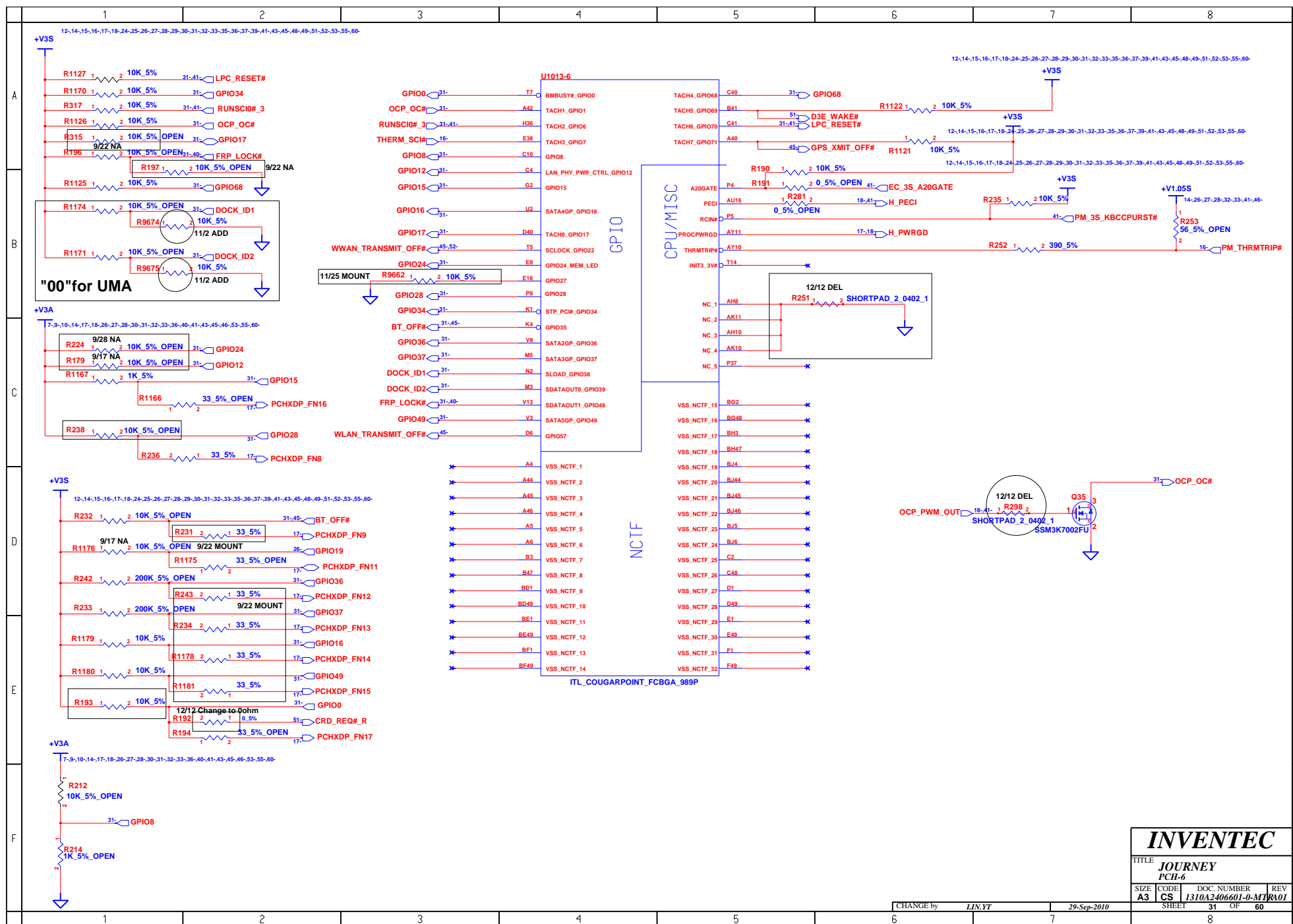


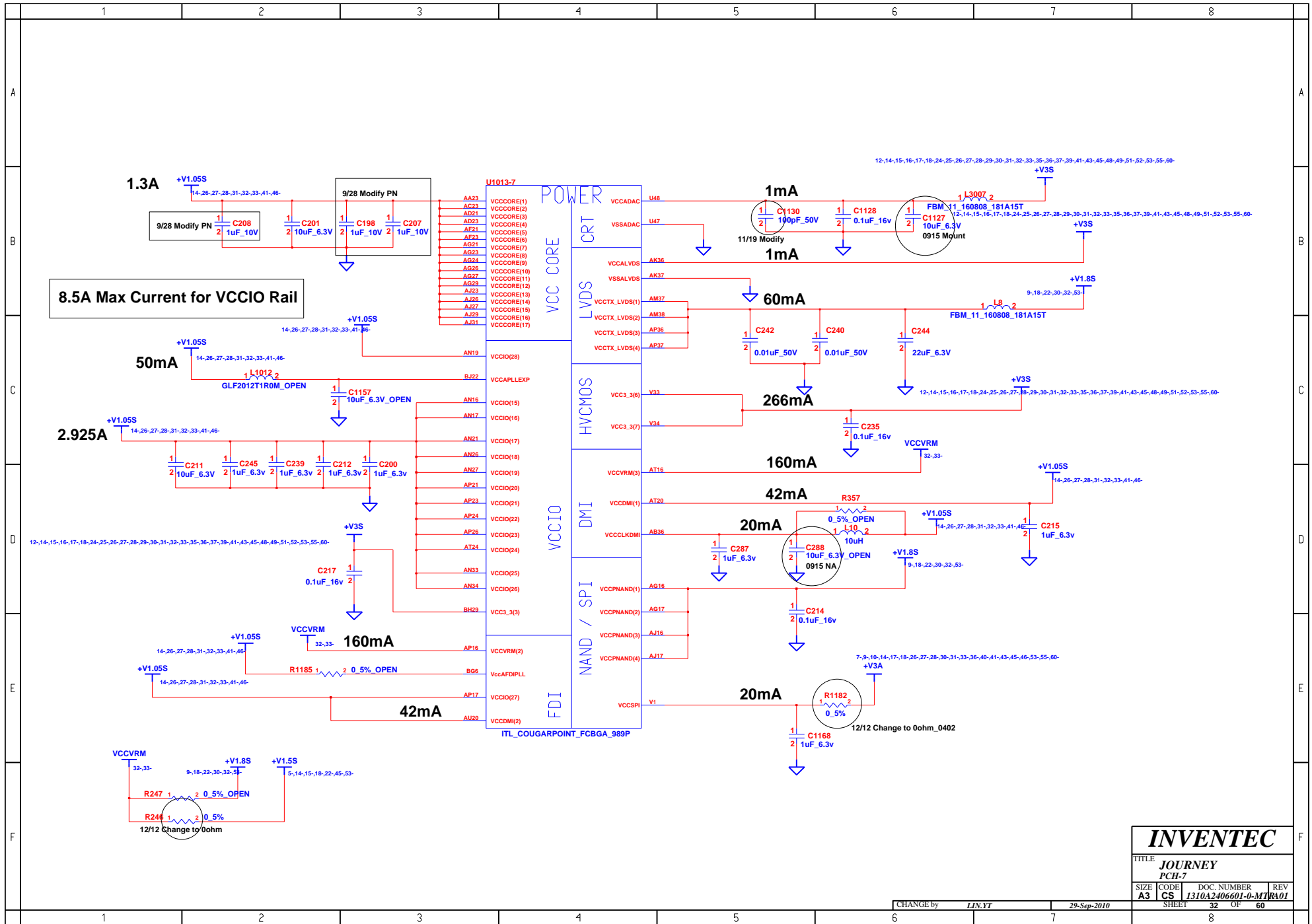
INVENTEC

TITLE JOURNEY PCH-4			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
SHEET 29		OF 60	

CHANGE by **LJN.YT** 29-Sep-2010

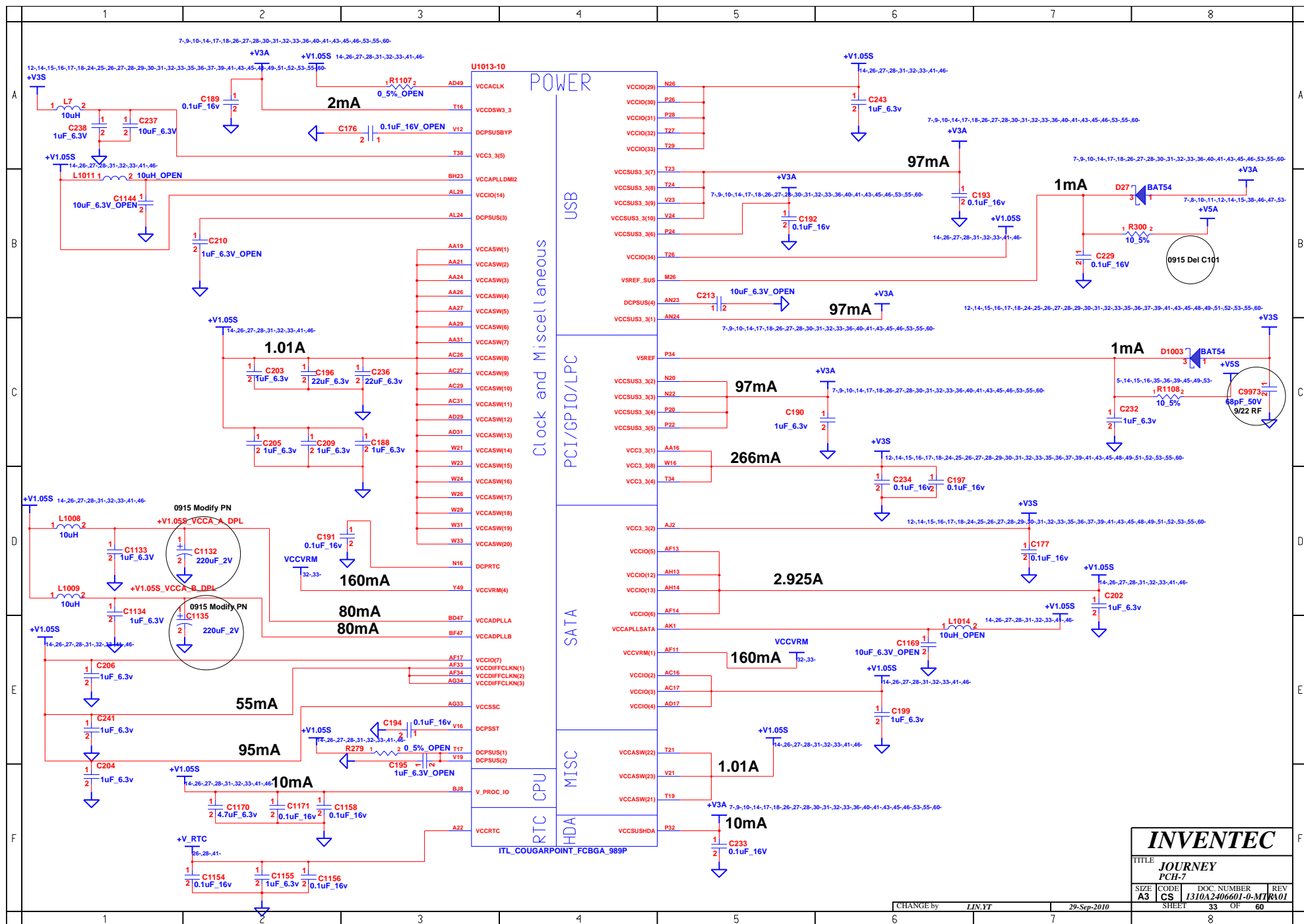






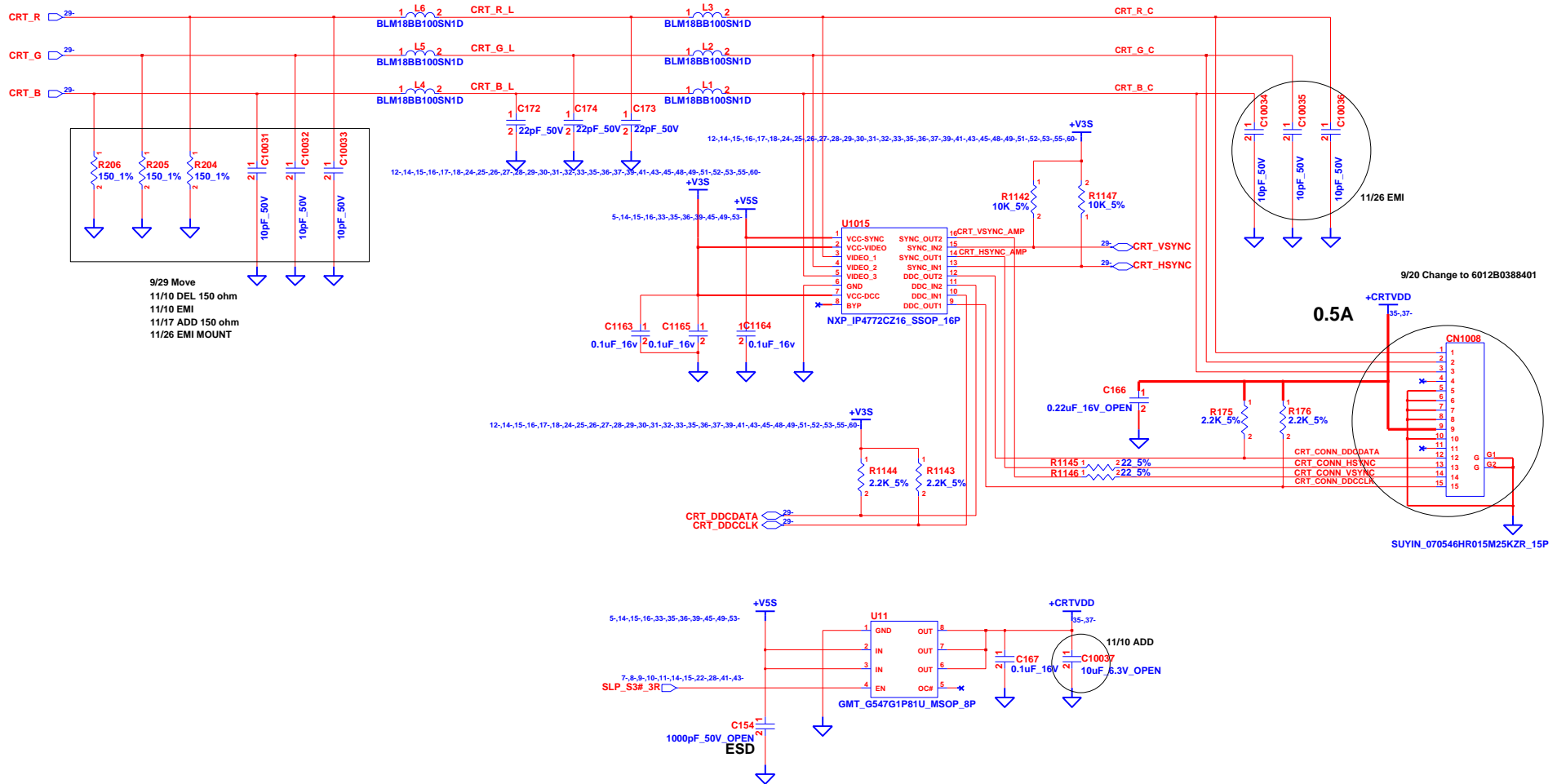
INVENTEC

TITLE JOURNEY PCH-7			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
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[illegible]

CRT



INVENTEC			
TITLE JOURNEY CRT & DP			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
CHANGE by LIN.YT		29-Sep-2010	
SHEET 35		OF 60	

A



A

22

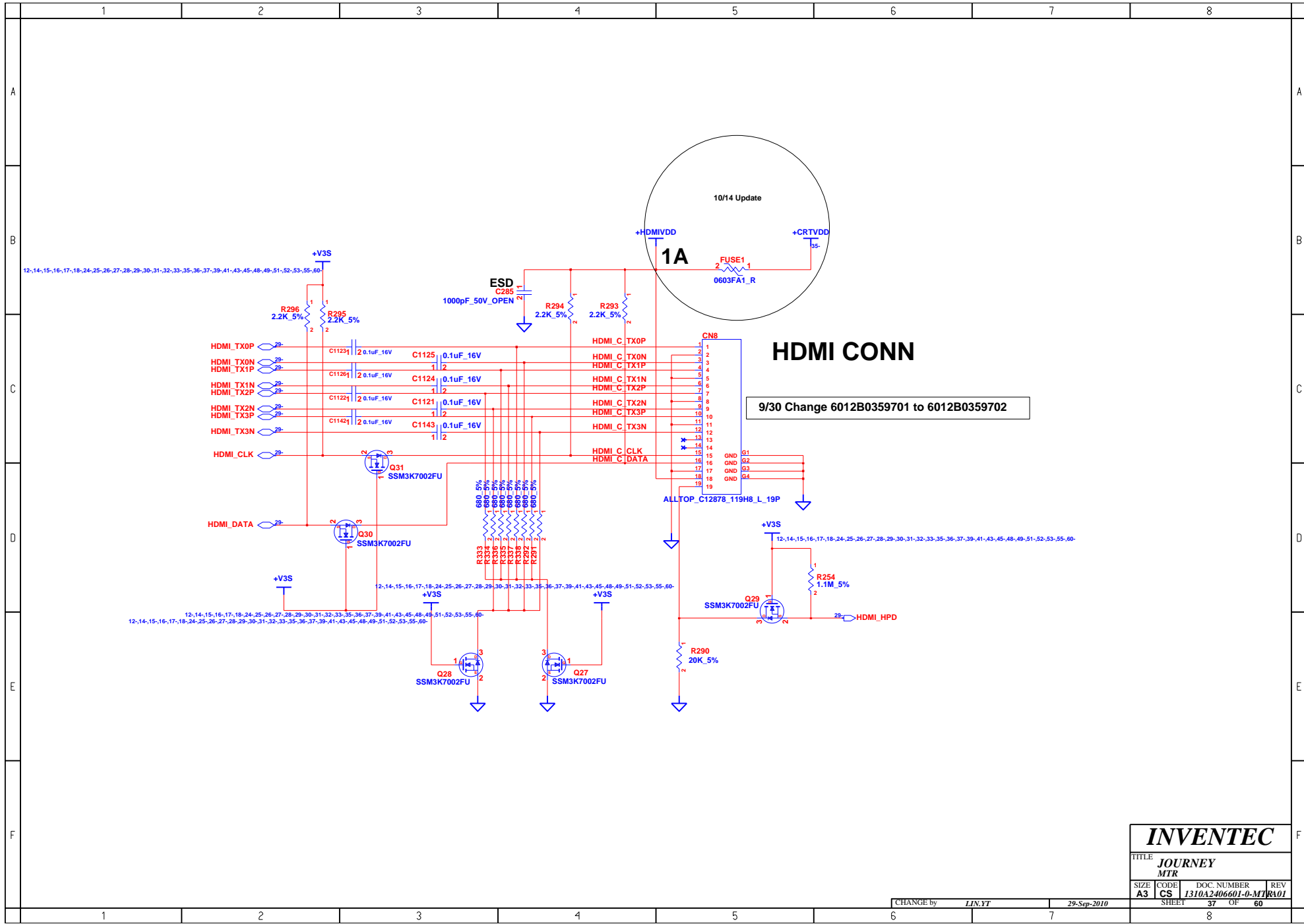
C

D

E

F

CHANGE by	<i>LIN, YT</i>	<i>29-Sep-2010</i>
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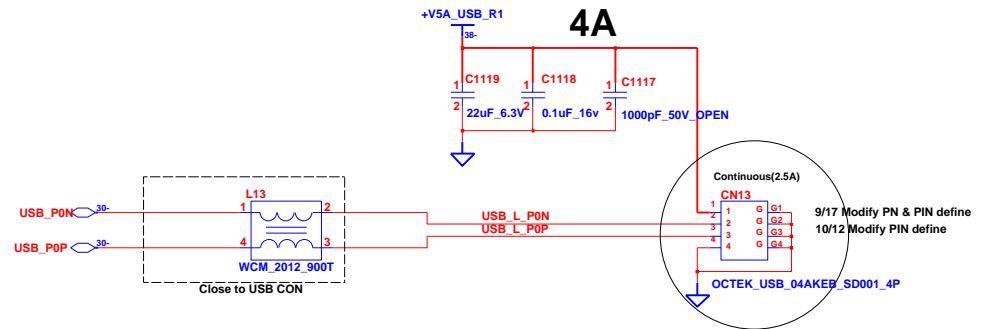
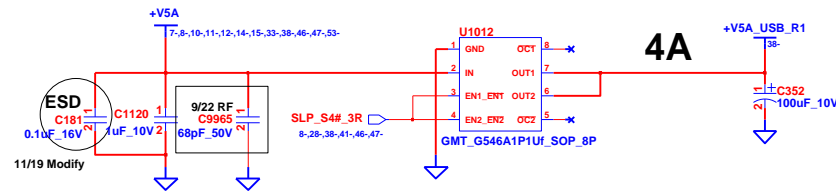
INVENTEC

TITLE			
JOURNEY			
MTR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MTR	R01
SHEET		37	OF 60

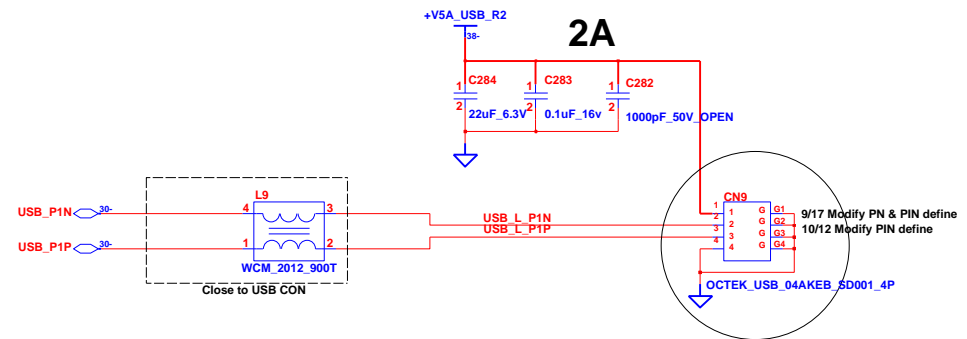
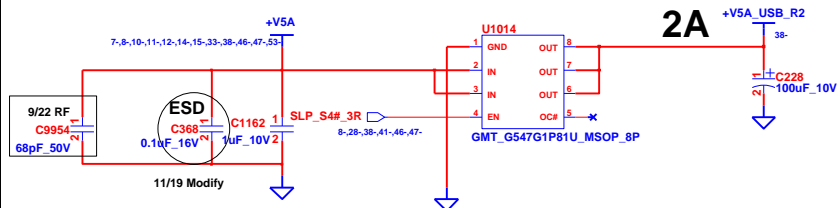
CHANGE by LIN.YT 29-Sep-2010

USB2.0 CONN(Right side)

USB Power port Conn



USB 2.0 Conn



INVENTEC

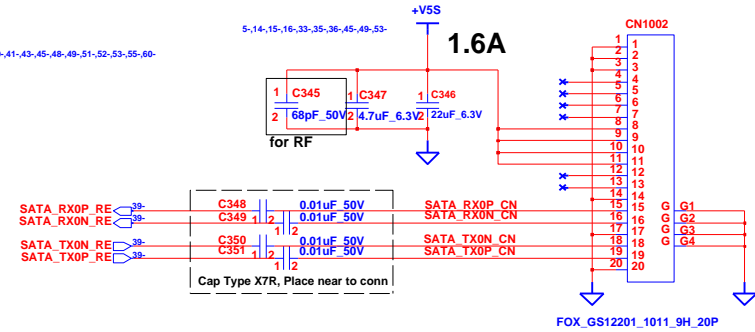
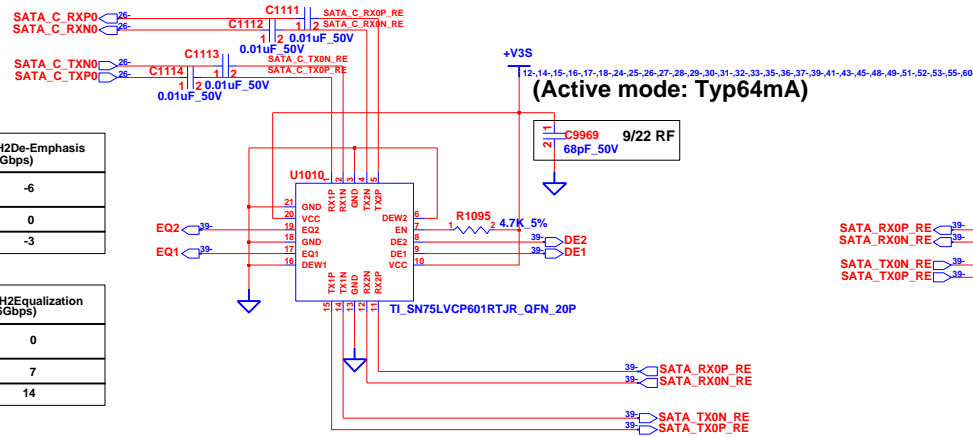
TITLE			
JOURNEY			
USB & SATA COMBO			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	R101
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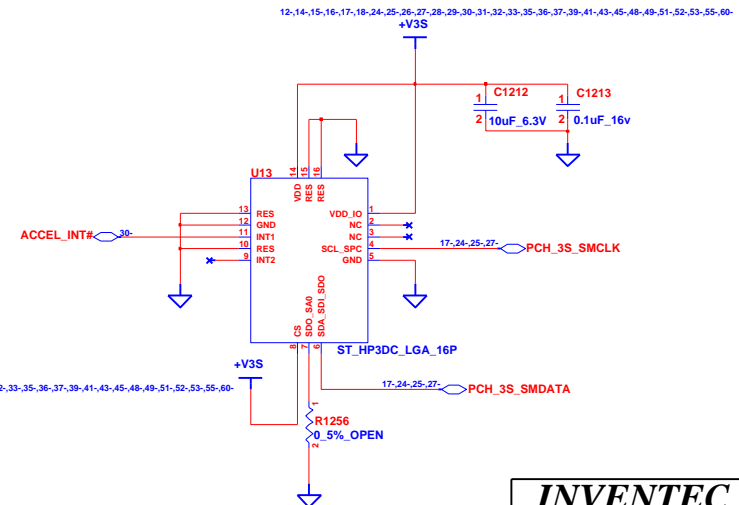
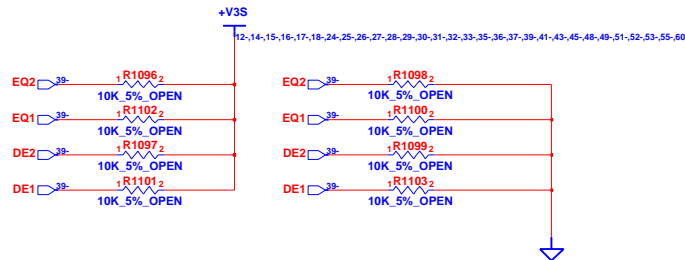
SATA HDD CONN & G-SENSOR

DE1/DE2	CH1/CH2De-Emphasis dB(@6Gbps)
NC (default)	-6
0	0
1	-3

EQ1/EQ2	CH1/CH2Equalization dB(@6Gbps)
NC (default)	0
0	7
1	14



ACCELEMETOR

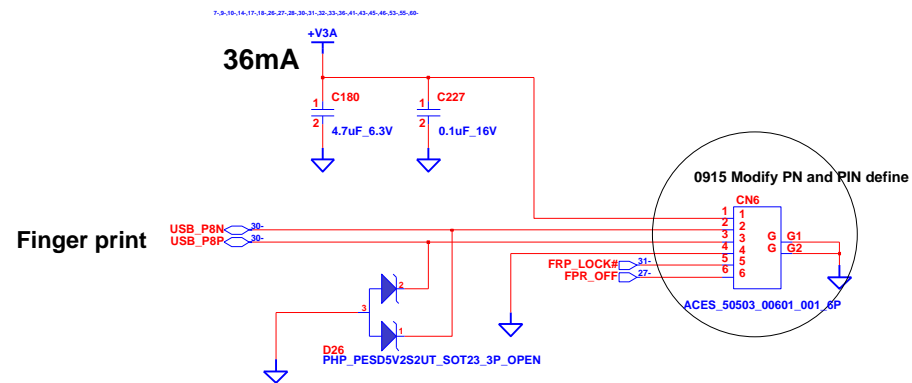


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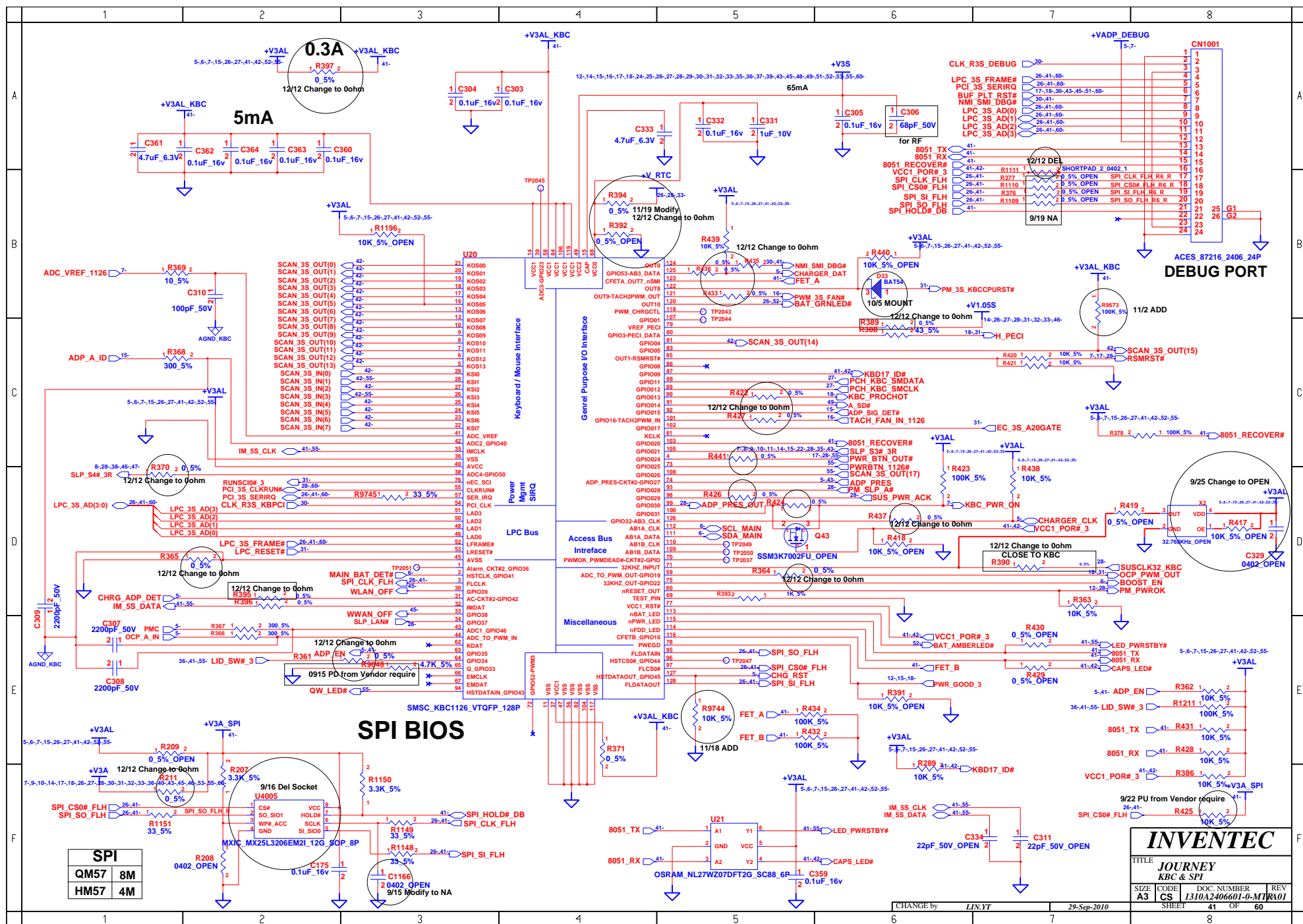
TITLE			
JOURNEY			
SATA HDD & ODD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2406601-0-MT	R01
SHEET		OF	60

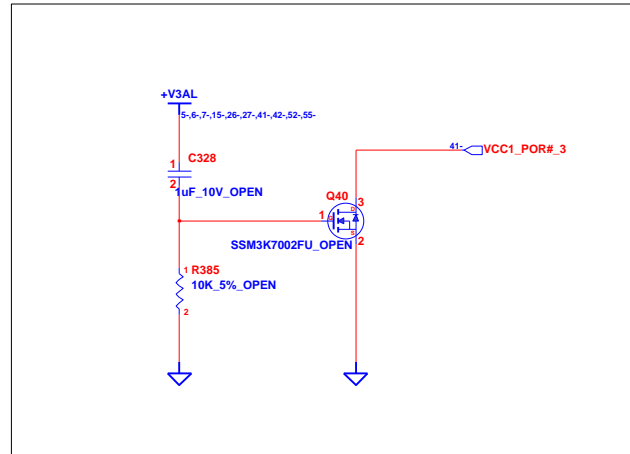
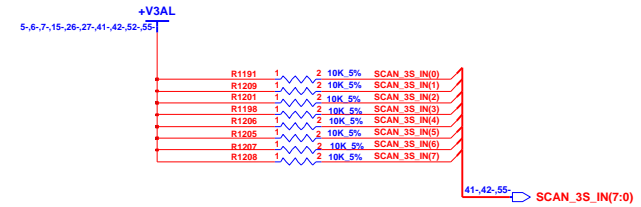
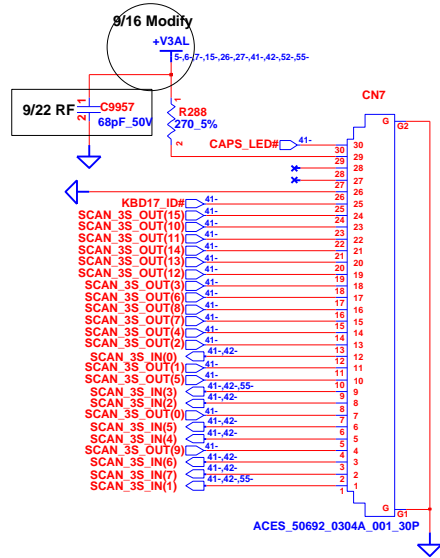
CHANGE by LIN.YT 29-Sep-2010

MB to FP BOARD



INVENTEC			
TITLE JOURNEY			
BLUETOOTH & FINGER PRINTER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	R01
CHANGE by LIN.YT		29-Sep-2010	
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CLOSE TO KBC

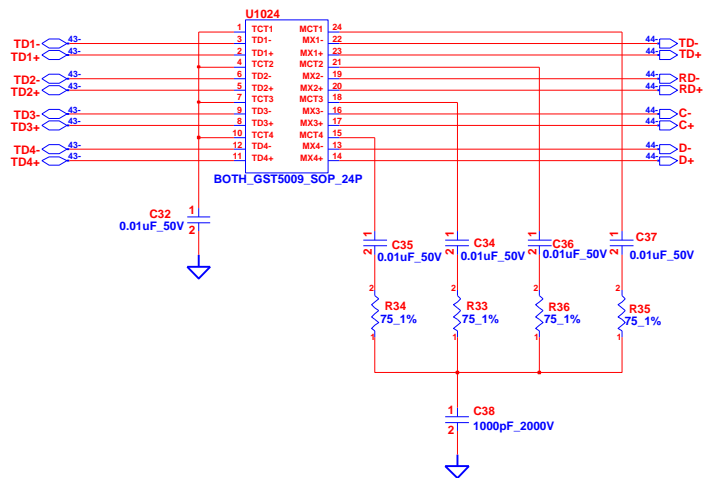
INVENTEC			
TITLE JOURNEY KEYBOARD & STICK POINT			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
SHEET 42		OF 60	

CHANGE by LIN.YT 29-Sep-2010

1

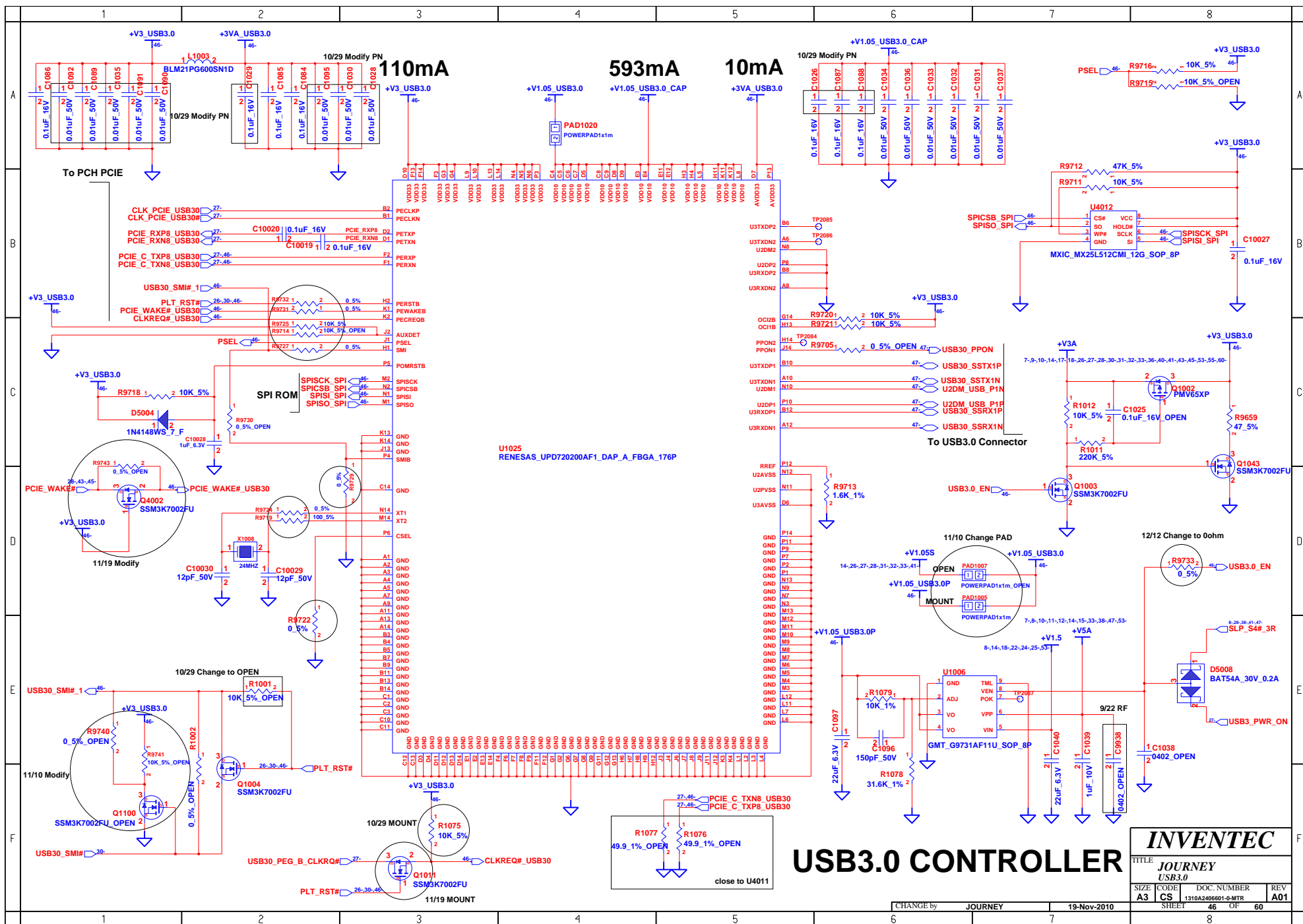


TITLE			
JOURNEY LAN INTERFACE			
SIZE	CODE	DOC. NUMBER	REV
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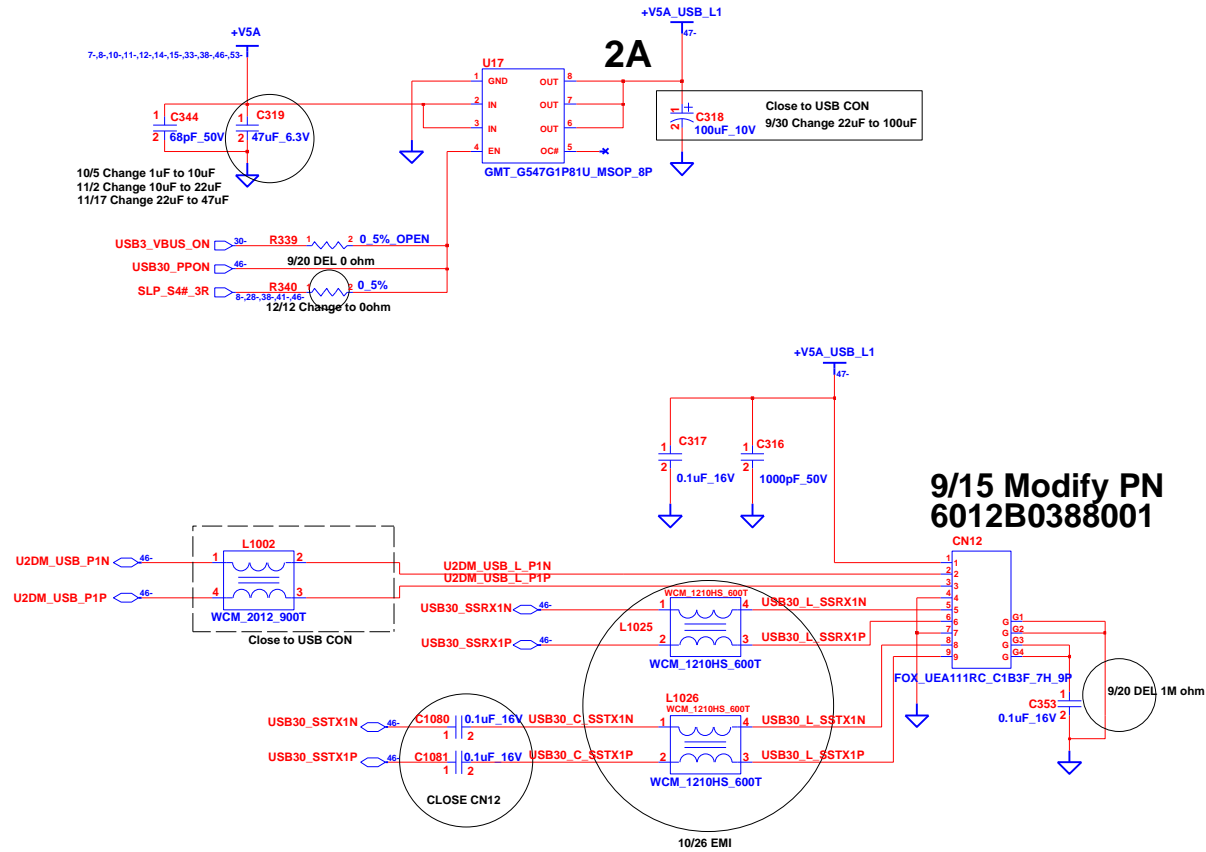
[illegible]

To place one 0.1uF at each pin 1 , 4 , 7 , 10
and place the 1uF in the spot that
is as close as possible to all 4 pins

INVENTEC			
TITLE JOURNEY LAN RJ45 CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV RA01
SHEET		44	OF 60



USB3.0 CONN(Left side)

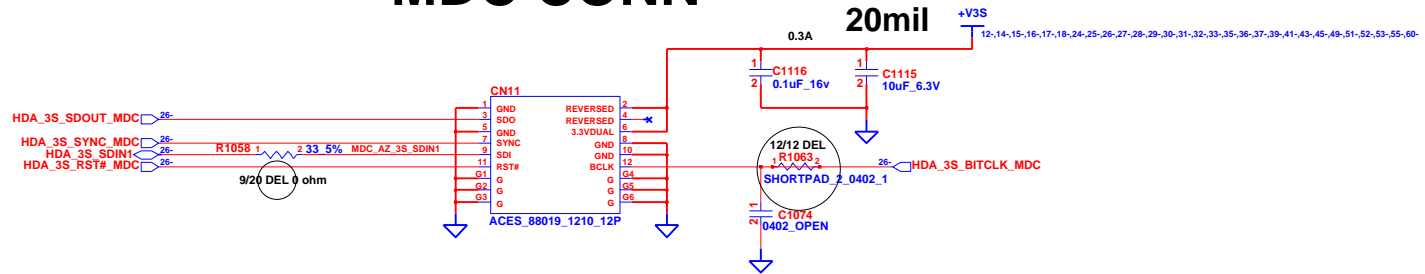


INVENTEC

TITLE			
JOURNEY			
power /wlan /wlan /Bt LED			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	R01
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CHANGE by LIN.YT 29-Sep-2010

MDC CONN



INVENTEC			
TITLE			
JOURNEY			
SIZE	CODE	DOC. NUMBER	REV
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CHANGE by		SHEET	
LIN.YT		48 OF 60	
29-Sep-2010		8	

AUDIO

9/20 Modify Netname

SPK OUT R+
SPK OUT R-
SPK OUT L-
SPK OUT L+

CN14

1 2 3 4
G G G1 G2

C1004
220pF_25V_OPEN

C1003
220pF_25V_OPEN

C1002
220pF_25V_OPEN

C1001
220pF_25V_OPEN

ACES_50224_00401_001_4P

AUDIO_GND

For JOURNEY

TITLE			
JOURNEY			
SCREW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MTR	A01
SHEET		49	OF 60

CHANGE by	<i>LIN.YT</i>	<i>29-Sep-2010</i>
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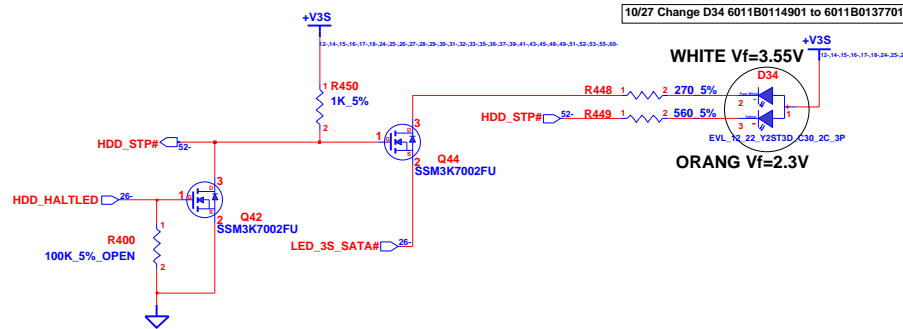
CARDREADER

TITLE			
JOURNEY SMART CARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MTR	A01
SHEET		51	OF 60

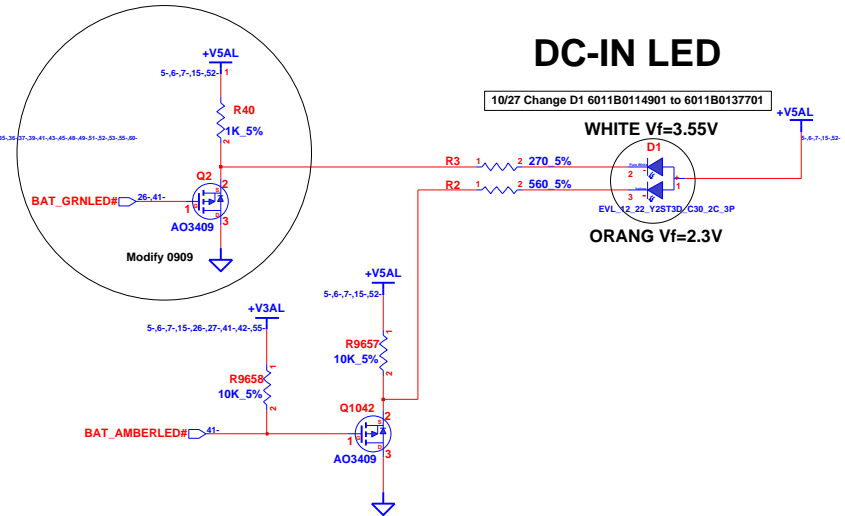
CHANGE by	<i>LIN.YT</i>	29-Sep-2010
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LED

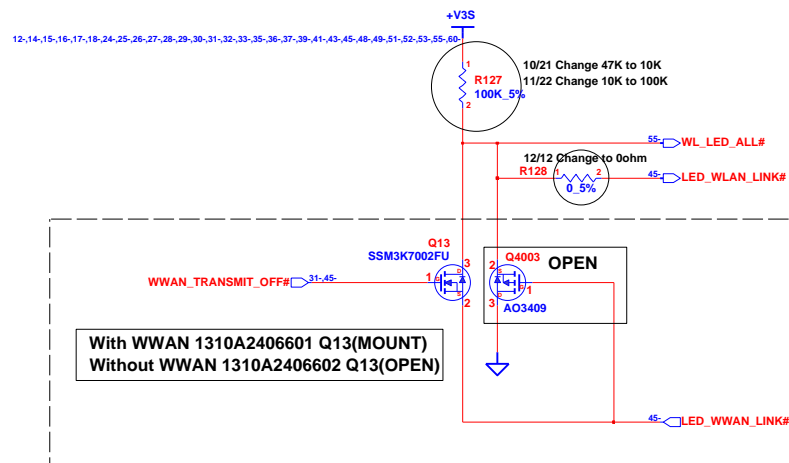
SATA LED & HDD-HALTED LED



DC-IN LED



WLAN_WWAN_Bluetooth_LED



INVENTEC

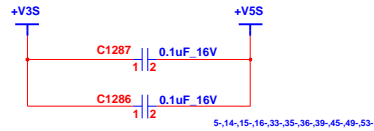
TITLE
JOURNEY

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	RA01
SHEET		52	OF 60

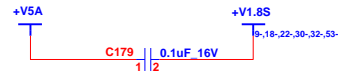
CHANGE by LIN.YT 29-Sep-2010

STITCHING CAPS

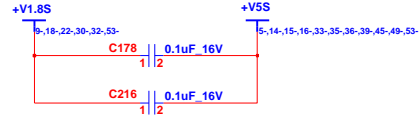
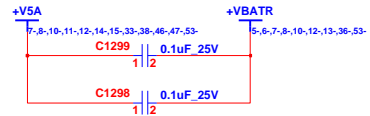
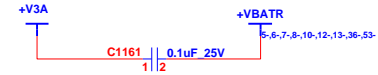
12,14,15,16,17,18,24,25,26,27,28,29,30,31,32,33,35,36,37,39,41,43,45,48,49,51,52,53,55,60-



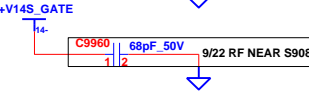
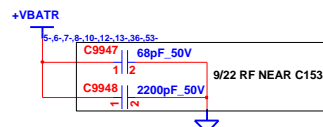
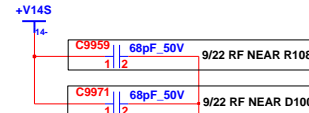
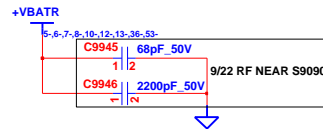
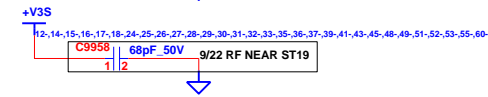
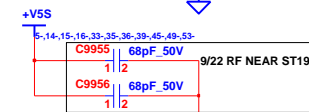
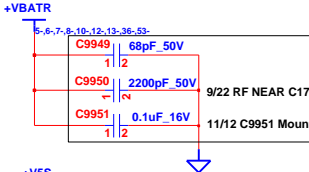
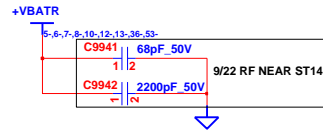
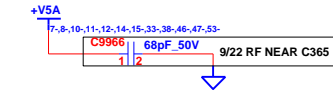
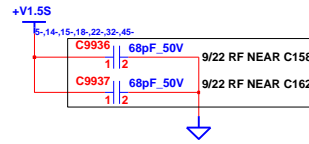
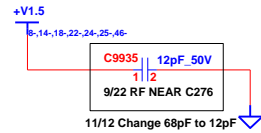
7,8,10,11,12,14,15,33,38,46,47,53-



7,8,10,14,17,18,26,27,28,30,31,32,33,36,40,41,43,45,46,55,60-



12,14,15,16,17,18,24,25,26,27,28,29,30,31,32,33,35,36,37,39,41,43,45,48,49,51,52,53,55,60-



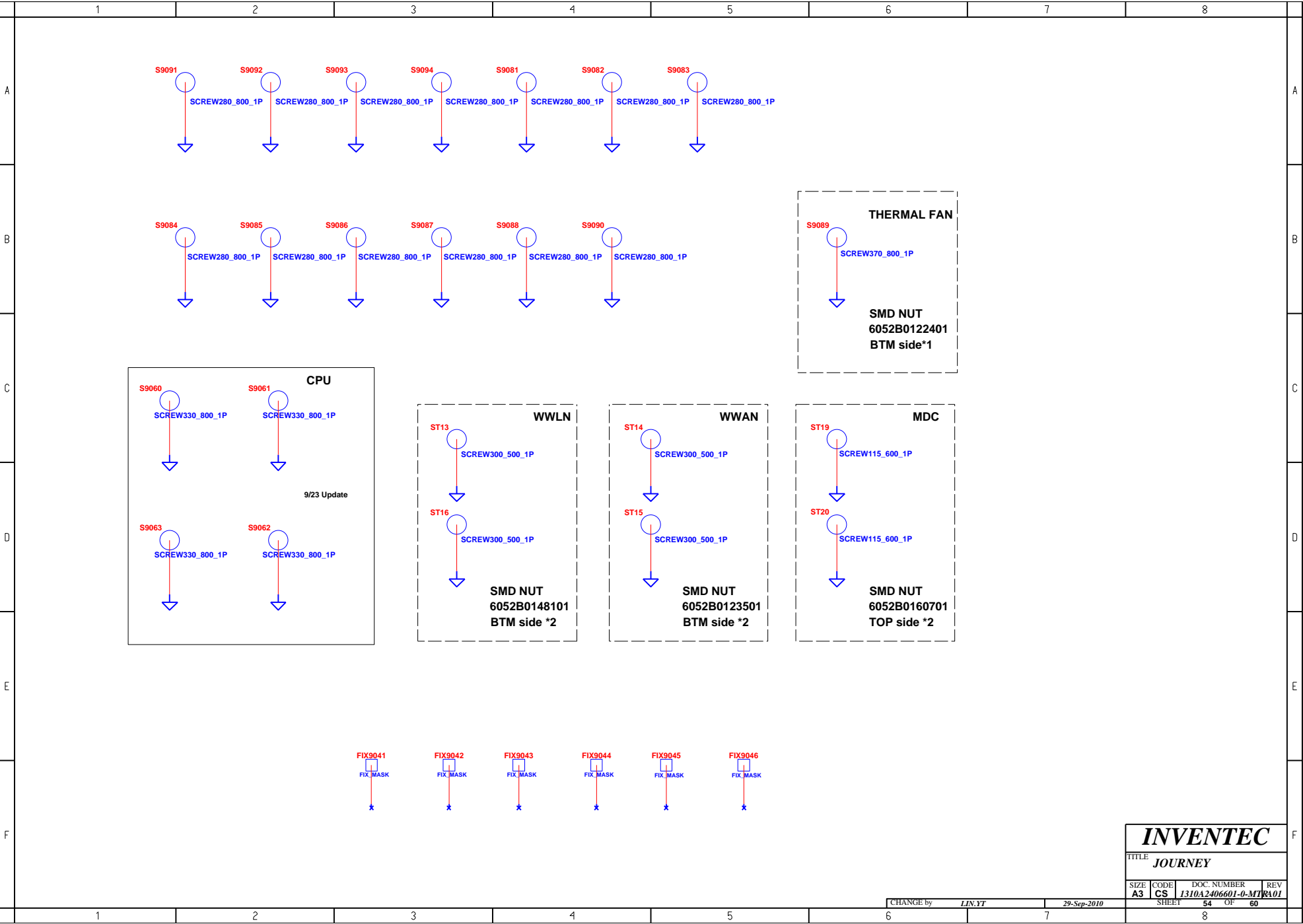
INVENTEC

TITLE **JOURNEY**

SIZE **A3** CODE **CS** DOC. NUMBER **1310A2406601-0-MT** REV **R01**

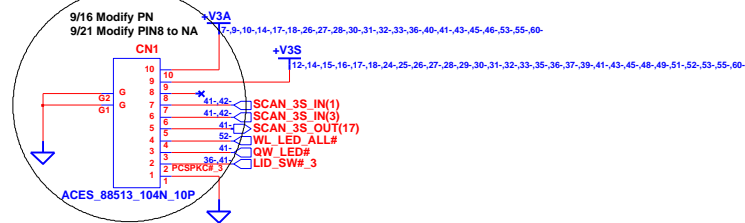
CHANGE by **LIN.YT** 29-Sep-2010

SHEET **53** OF **60**

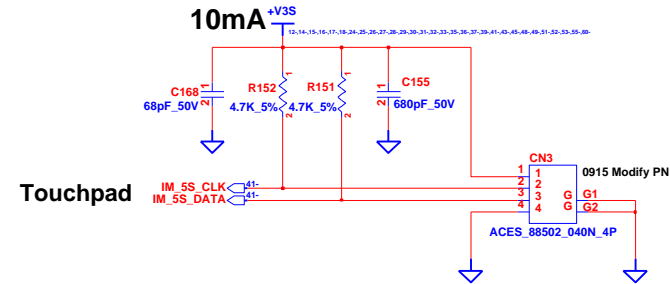


Wire to board Conn on MB

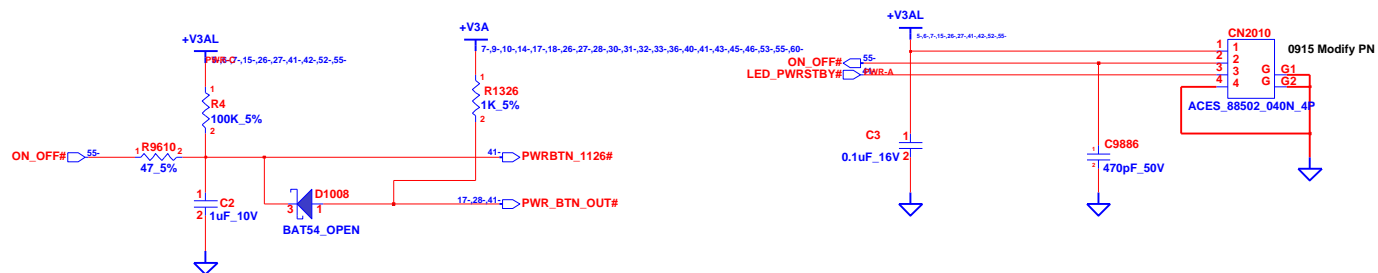
MB to Launch BOARD



MB to PICK Button BOARD



MB to POWER BOARD



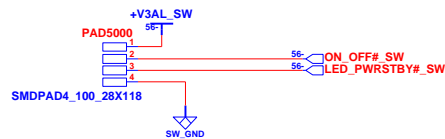
INVENTEC

TITLE JOURNEY CARD READER			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
SHEET 55		OF 60	

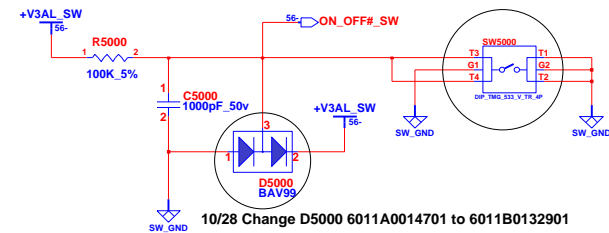
CHANGE by **LIN.YT** 29-Sep-2010

DB Power Board

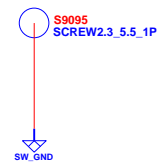
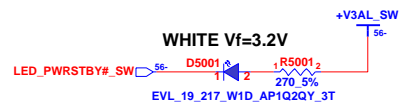
PWR SW W/B CONN



Power Button



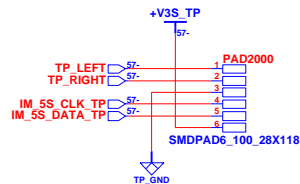
Power / Standby LED



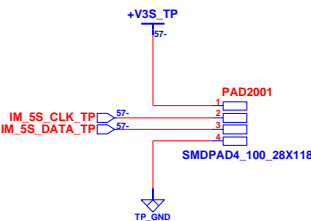
INVENTEC			
TITLE JOURNEY			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
CHANGE by LIN.YT		29-Sep-2010	
SHEET 56		OF 60	

DB PICK Button Board

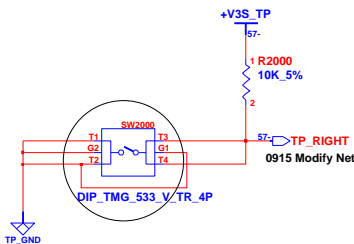
To Touchpad Module



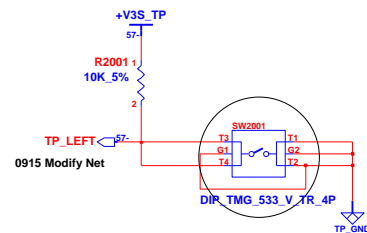
To MB KBC



RIGHT BUTTON



LEFT BUTTON



FIX9021
FIX_MASK

FIX9022
FIX_MASK

INVENTEC

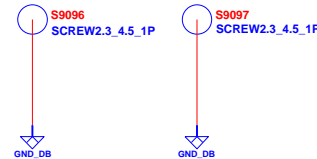
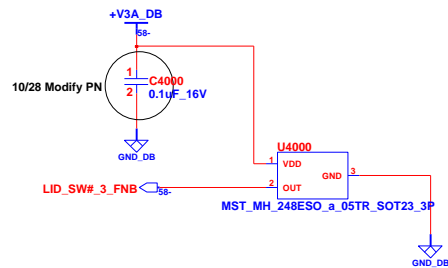
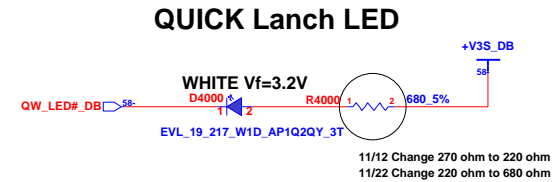
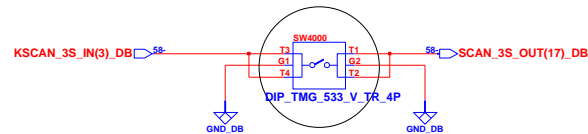
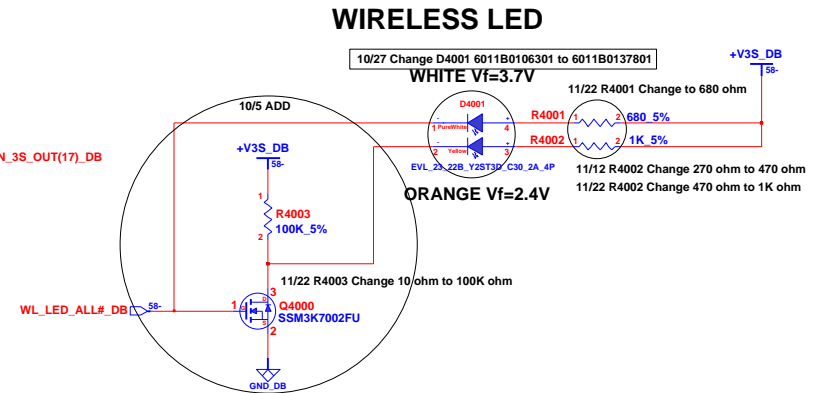
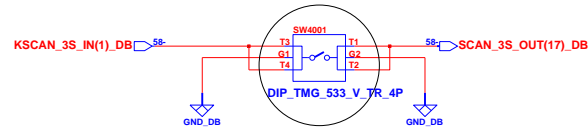
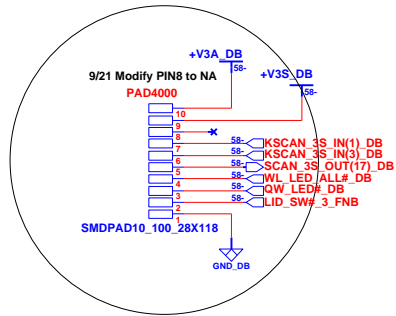
TITLE **JOURNEY**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2406601-0-MT	R01

CHANGE by **LIN.YT** 26-Oct-2010

SHEET 57 OF 60

DB LAUNCH BOARD(Wireless LED & Quick LED H-SENSOR)

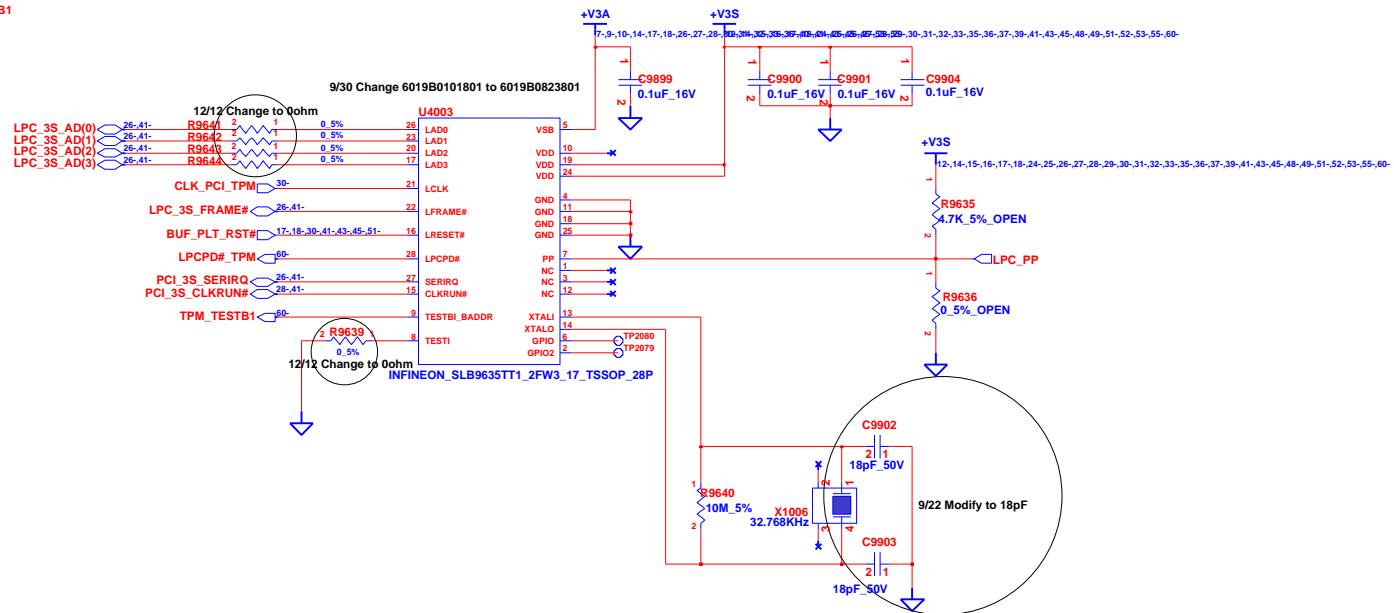
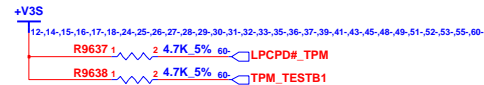


<i>INVENTEC</i>				
TITLE <i>JOURNEY</i>				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	<i>1310A2406601-0-MT</i>	<i>R01</i>	
SHEET		58	OF	60

CHANGE by LIN.YT 29-Sep-2010

	1	2	3	4	5	6	7	8	
A	<div>DB DIGITAL MIC Board</div>								A
B	<div><div>9/20 DEL</div></div>								B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE JOURNEY			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
CHANGE by LIN.YT		29-Sep-2010	
SHEET 59		OF 60	



INVENTEC			
TITLE JOURNEY			
SIZE A3	CODE CS	DOC. NUMBER 1310A2406601-0-MT	REV R01
SHEET 60		OF 60	

CHANGE by LJN.YT 29-Sep-2010