

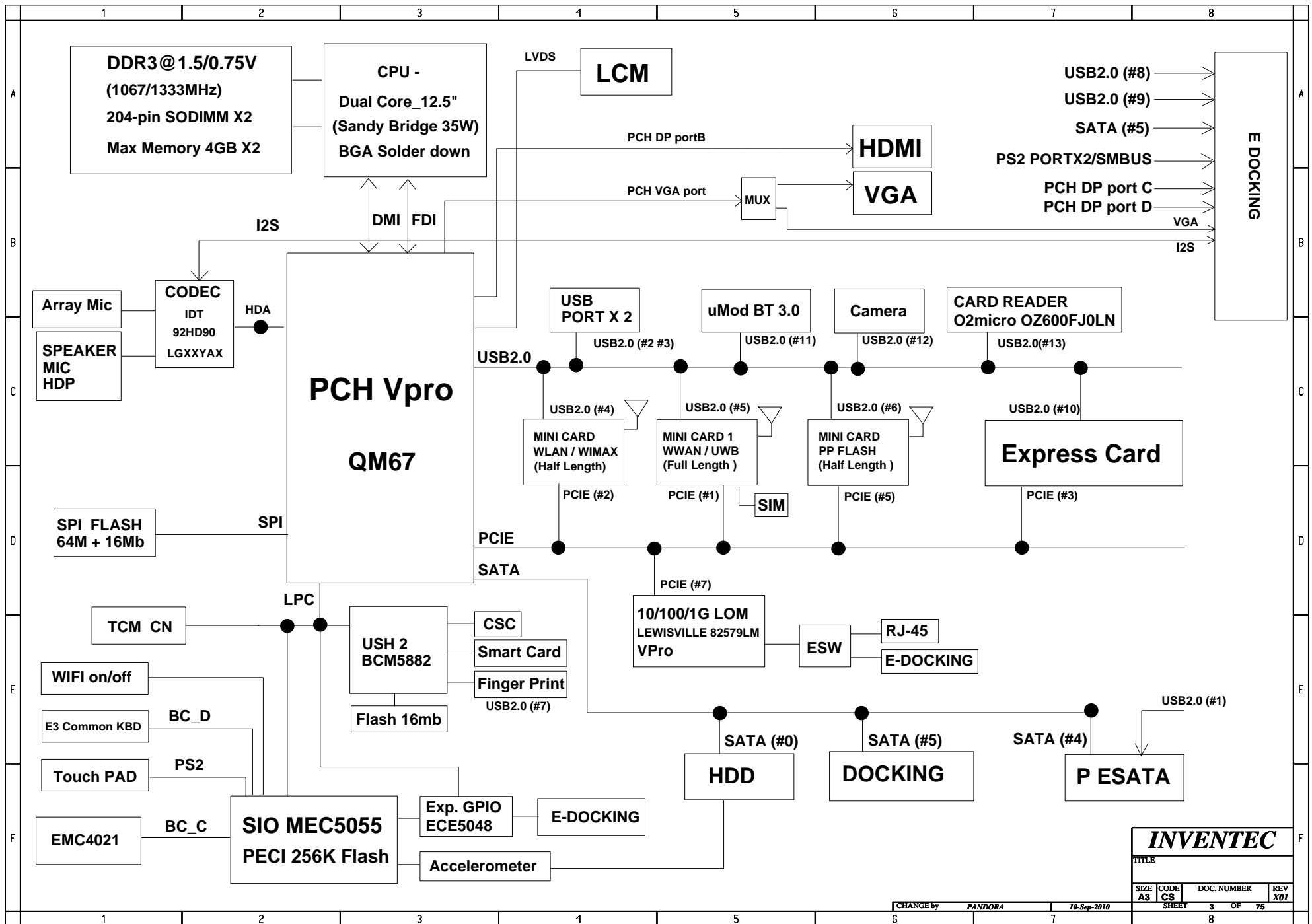
[illegible]

# TABLE OF CONTENTS

PAGE	PAGE	PAGE
1. Cover Page	31. PCH 1	59. CRT CONN
2. Index	32. PCH 2	60. LCM CONN
3. 12.5 UMA Block Diagram	33. PCH 3	61. HDMI
4. Blank	34. PCH 4	62. LED
5. SMB Diagram	35. PCH 5	63. EXPRESS CARD
6. Power Block Diagram	36. PCH 6	64. CARD READER OZ600FJOLN
7. Power on Sequence	37. PCH 7 POWER	65. KB CONN & TP
8. Power	38. PCH 8 POWER	66. Power Button / RF switch / Hall Sensor
9. UMA Power Charger	39. PCH 9 GND	67. E DOCKING/LAN MUX/VGA MUX
10.UMA Power AC IN	40. BLANK	68. TCM
11.UMA Power Battery	41. SATA HDD	69. SCREW
12.UMA Power +3A/+5A	42. USB & ESATA	70. EMI
13.UMA Power +V1.5/+V0.75S	43. USB Conn	DB
14.UMA Power VCCP/+V1.05_LAN_M	44. Blue Tooth	71. Cover Page
15.UMA Power +V0.85S/+V1.8S	45. EC 5055	72. BIOS BOARD
16.UMA VGFX_CORE	46. Expander ECE5048	73. HALLSENSOR BOARD
17.UMA Power VCORE	47. AUDIO CODEC	74. WLAN SW BOARD
18.UMA Power +V3S/+V5S/+V1.5S	48. MDC/Speaker/Jack	75. SPI BOARD
19.UMA Power	49. LAN 82579LM	
20.UMA Power	50. RJ45/Transformer	
21.CPU 1	51. WLAN	
22.CPU 2	52. WWAN	
23.CPU 3 DRAM	53. FLASH PP	
24.CPU 4 POWER	54. SIM CARD	
25.CPU 5 POWER	55. G SENSOR	
26.CPU 6 GND	56. BCM5882	
27.ITP CONN	57. BCM5882	
28.FAN & THERMAL	58. FP/ RFID / SM card	
29.DDR3 DIMM0		
30.DDR3 DIMM1		

INVENTEC			
TITLE			
INDEX			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		2 OF	75

CHANGE by PANDORA 19-Aug-2010



**INVENTEC**

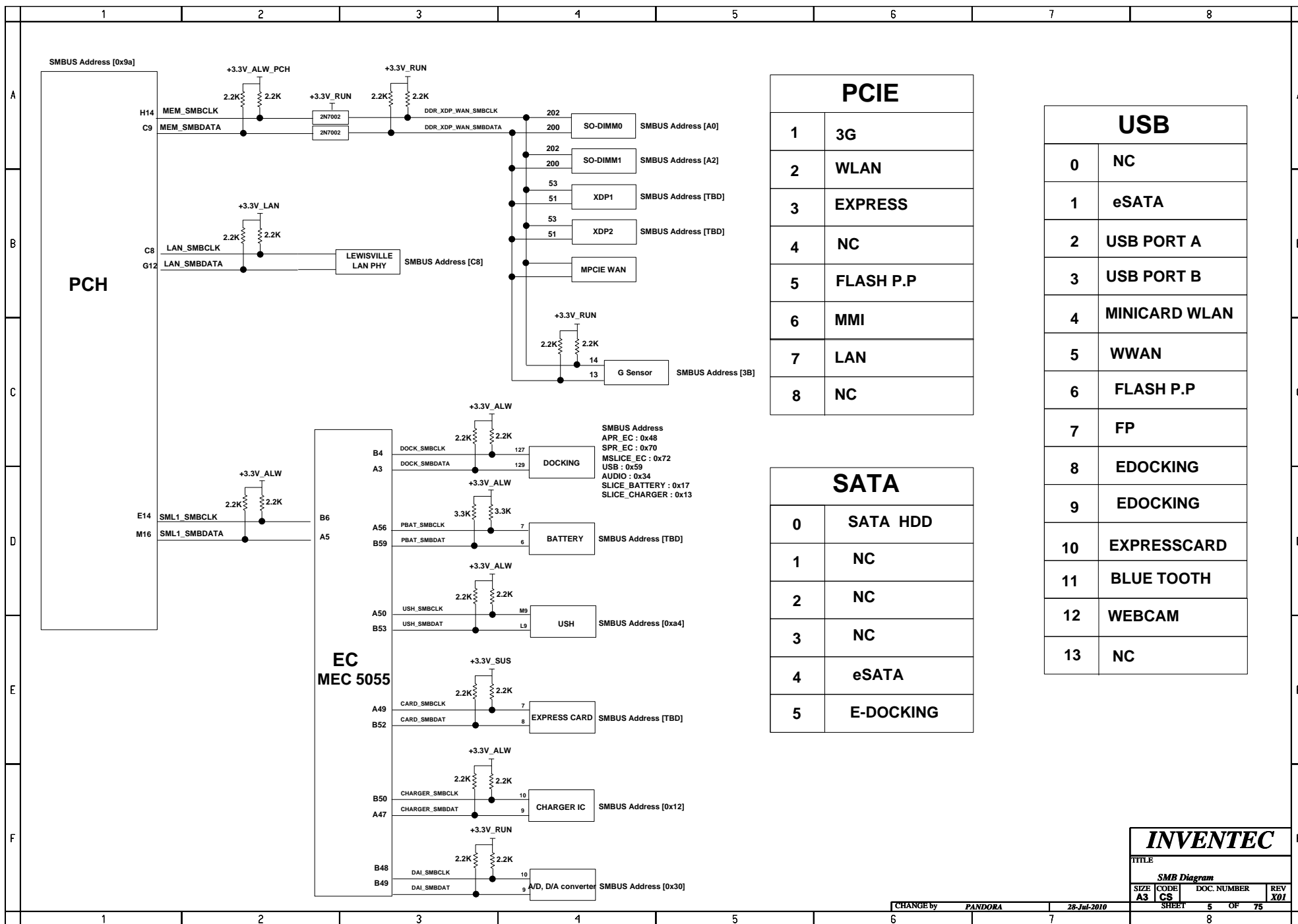
TITLE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	3 OF 75	X01

CHANGE by PANDORA 10-Sep-2010

SHEET 3 OF 75

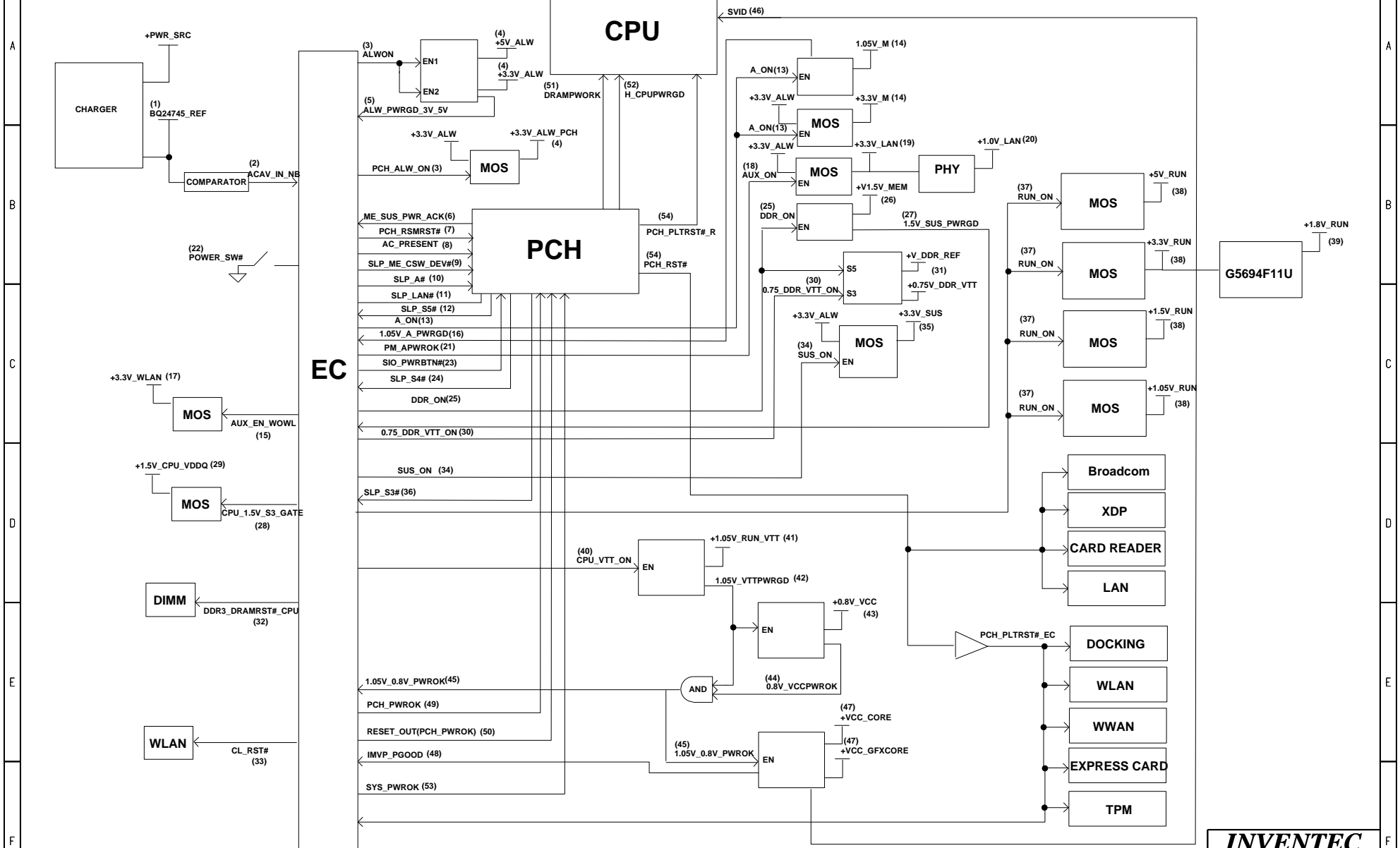
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>PANDORA</i>		<i>19-Jul-2010</i>	
1	2	3	4	5	6	7	8		

<i><b>INVENTEC</b></i>			
TITLE			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>	SHEET <b>4</b> OF <b>75</b>	<i><b>X01</b></i>





# VIDA PWRON SEQUENCE



PROPRIETARY NOTE: THIS SHEET OF ENGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL") THIS DOCUMENT MAY NOT BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION, NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

DELL CONFIDENTIAL/PROPRIETARY

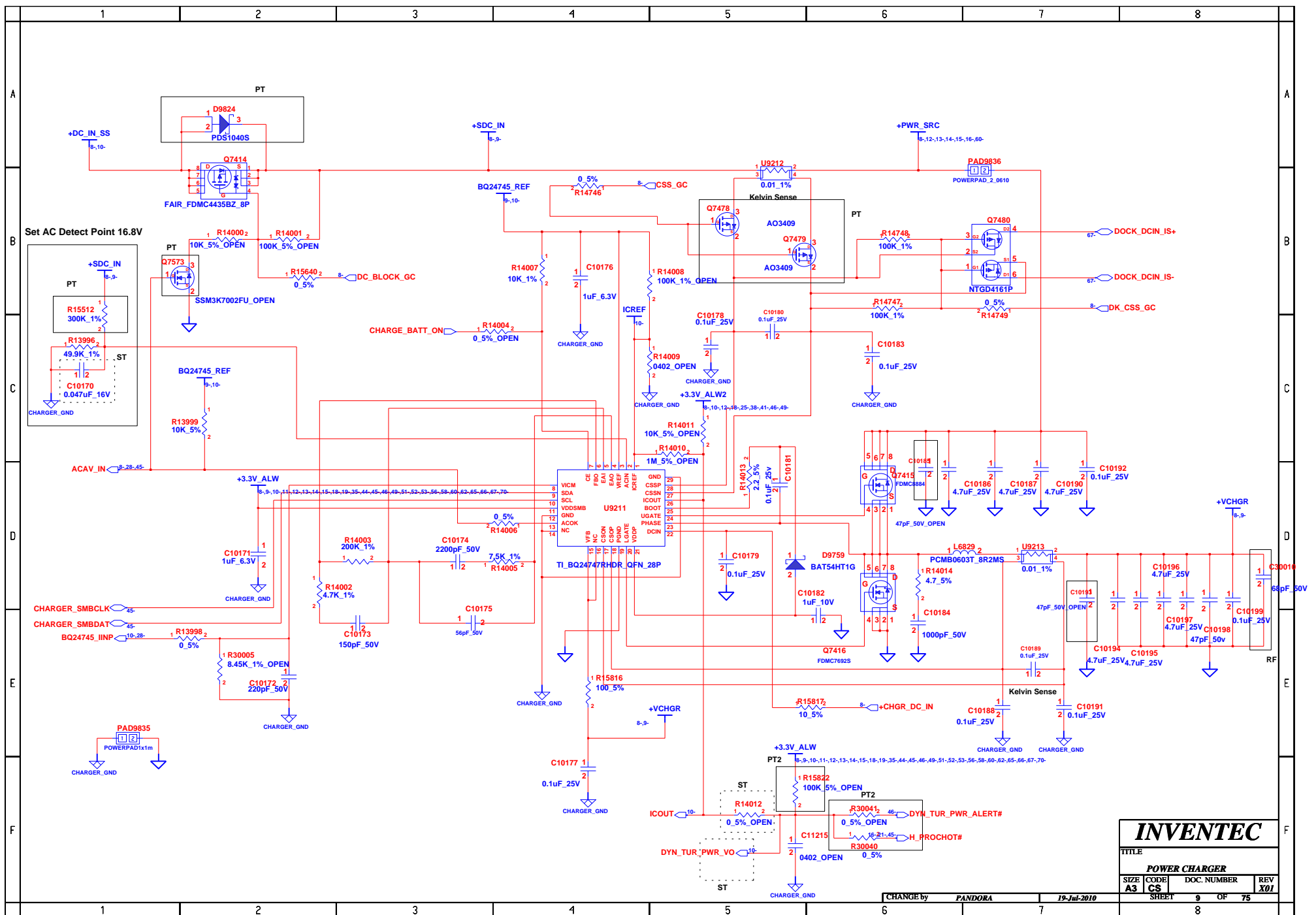
**INVENTEC**

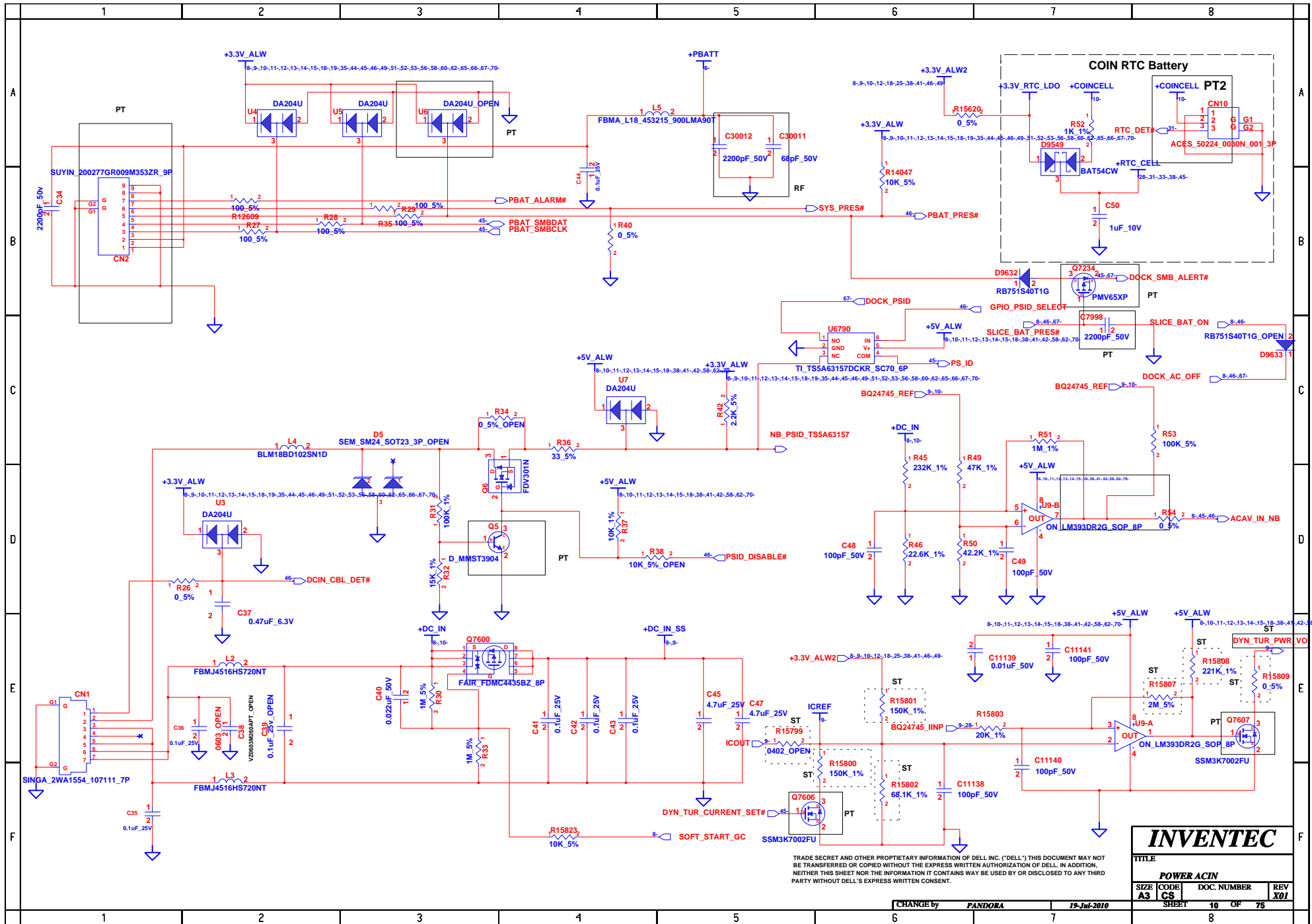
TITLE			
Power On Sequence			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		7 OF	75

CHANGE by PANDORA 7-Sep-2010

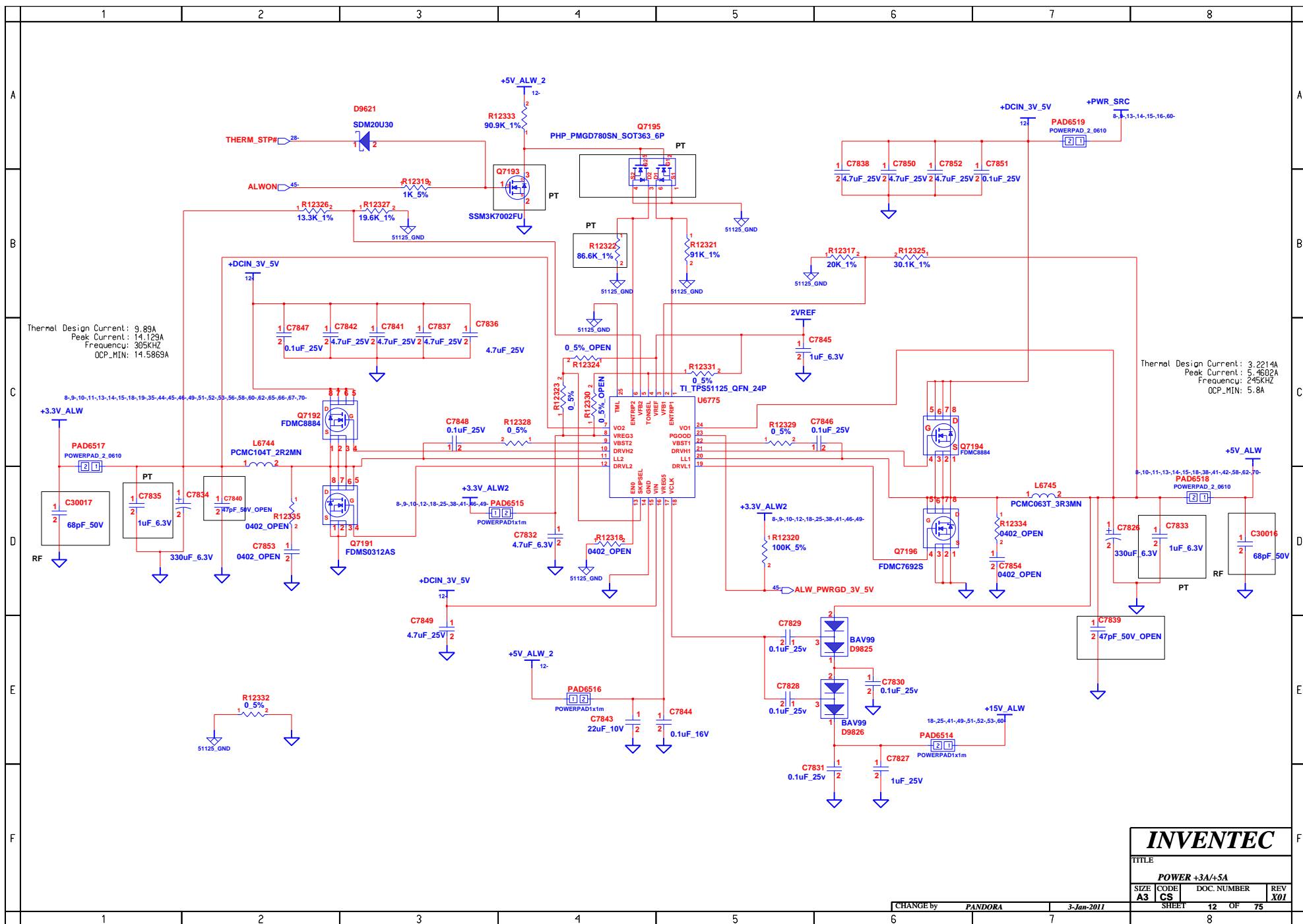


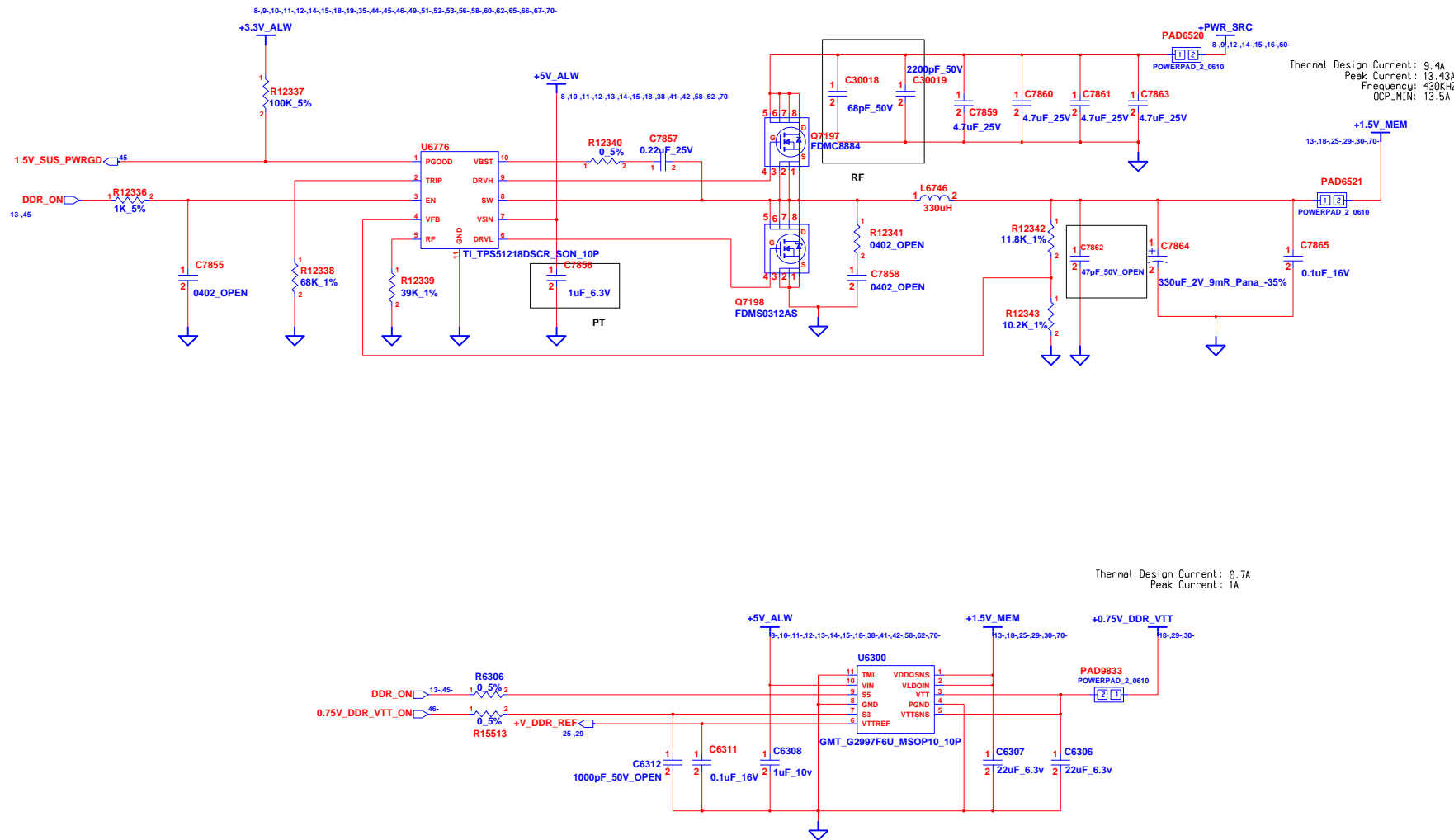










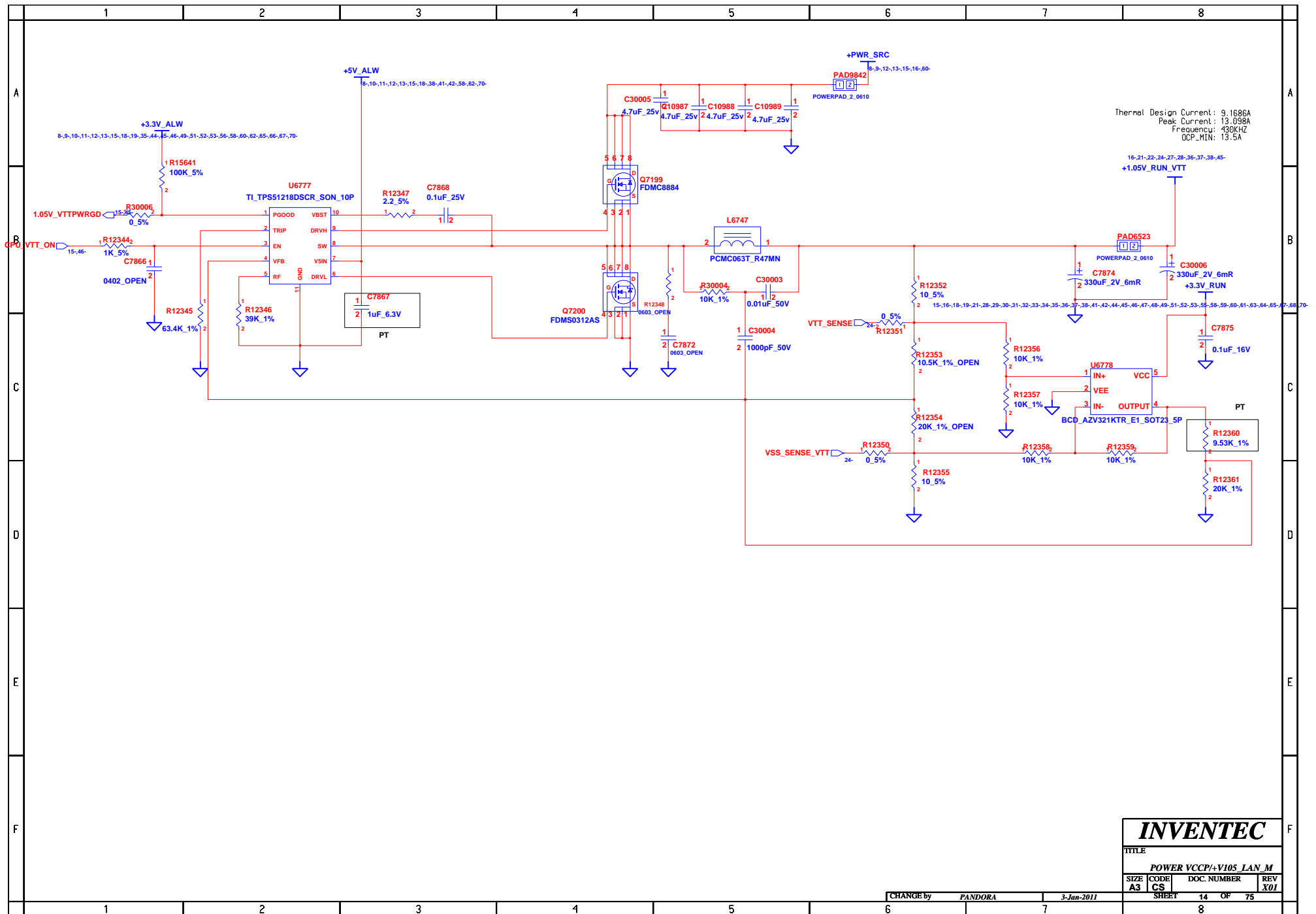


**INVENTEC**

TITLE			
POWER +V1.5/+V0.75S			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01

CHANGE by PANDORA 3-Jan-2011

SHEET 13 OF 75



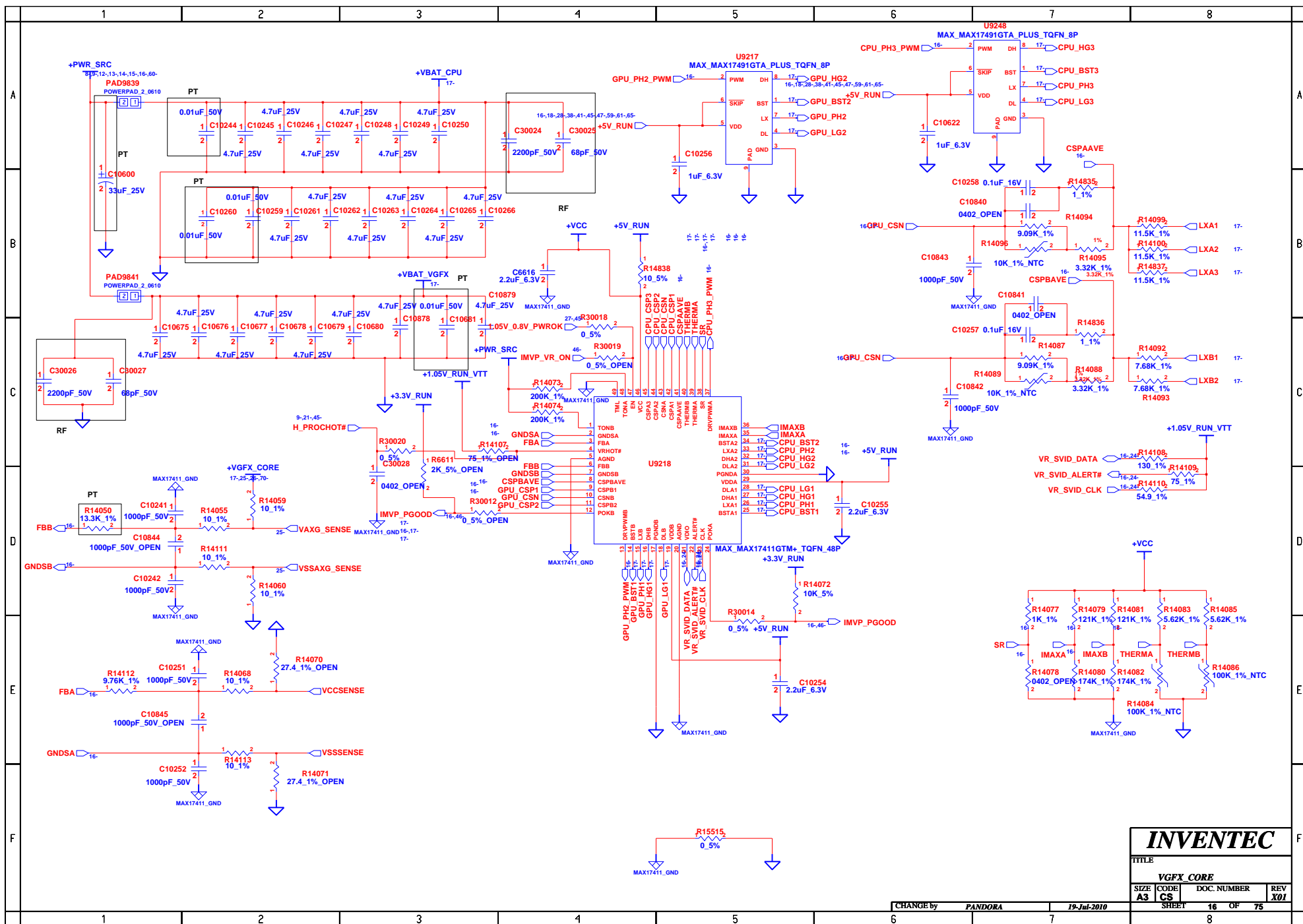
**INVENTEC**

TITLE			
POWER VCCP/+V105 LAN_M			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	14	X01

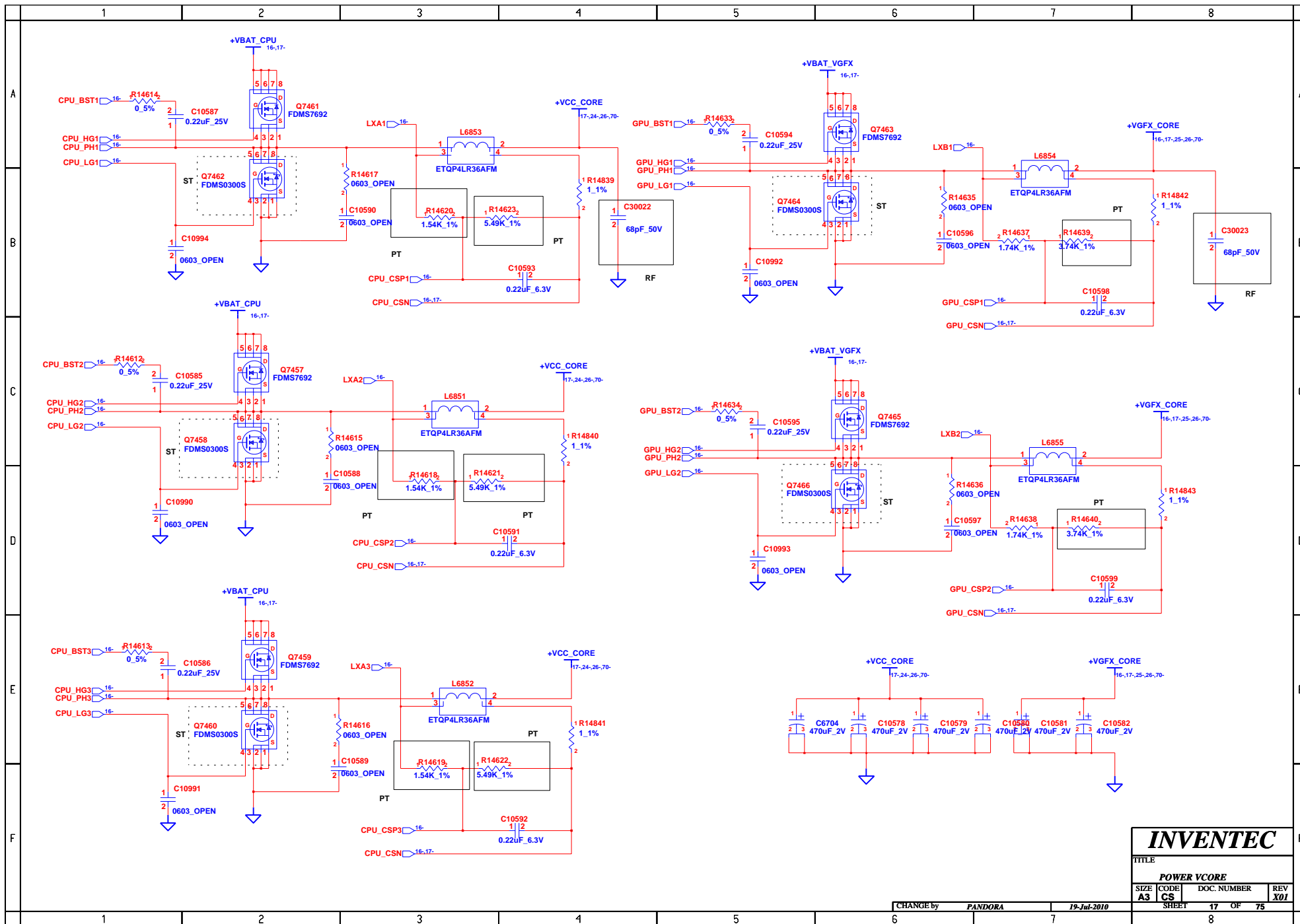
CHANGE by PANDORA 3-Jan-2011

SHEET 14 OF 75







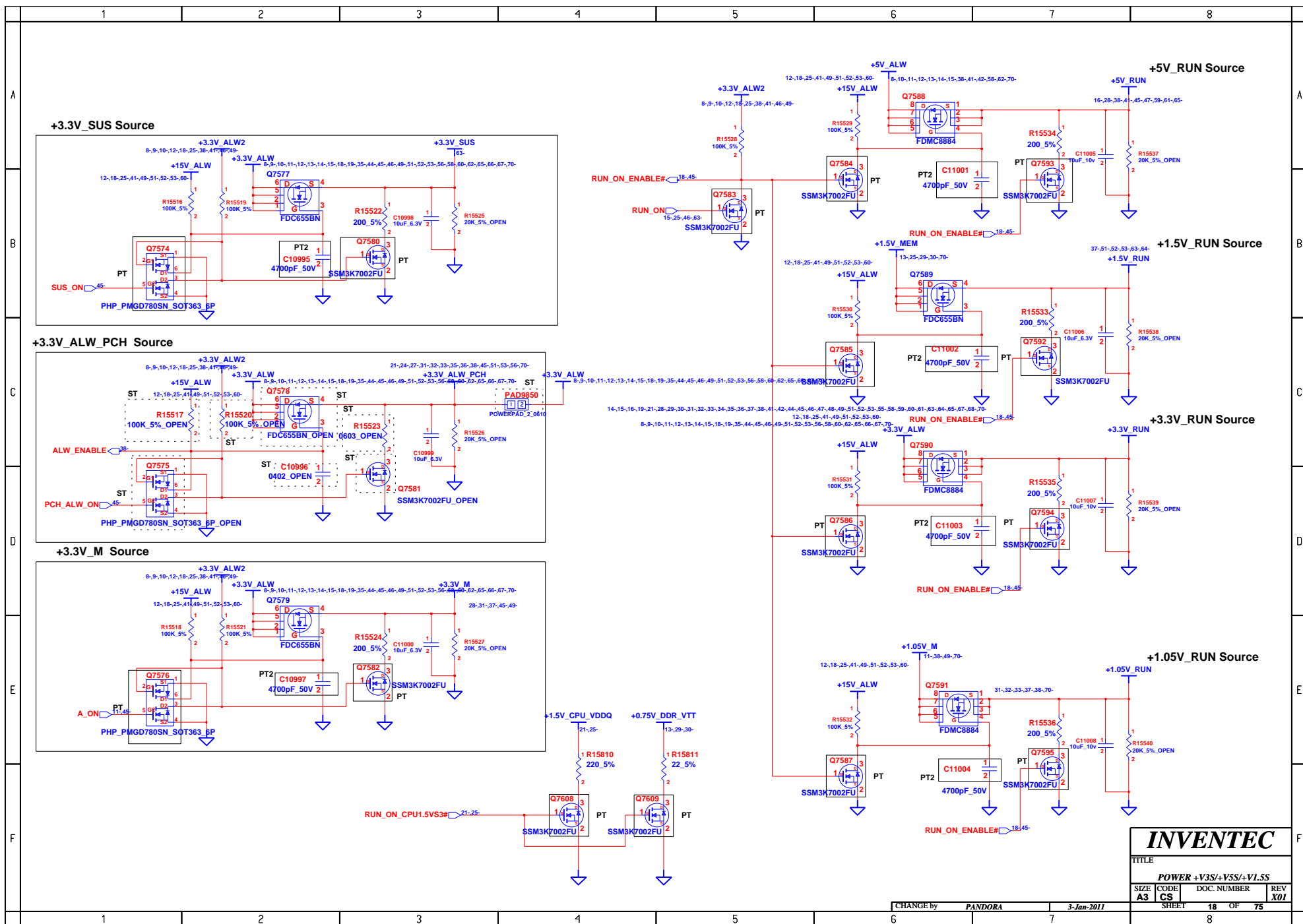


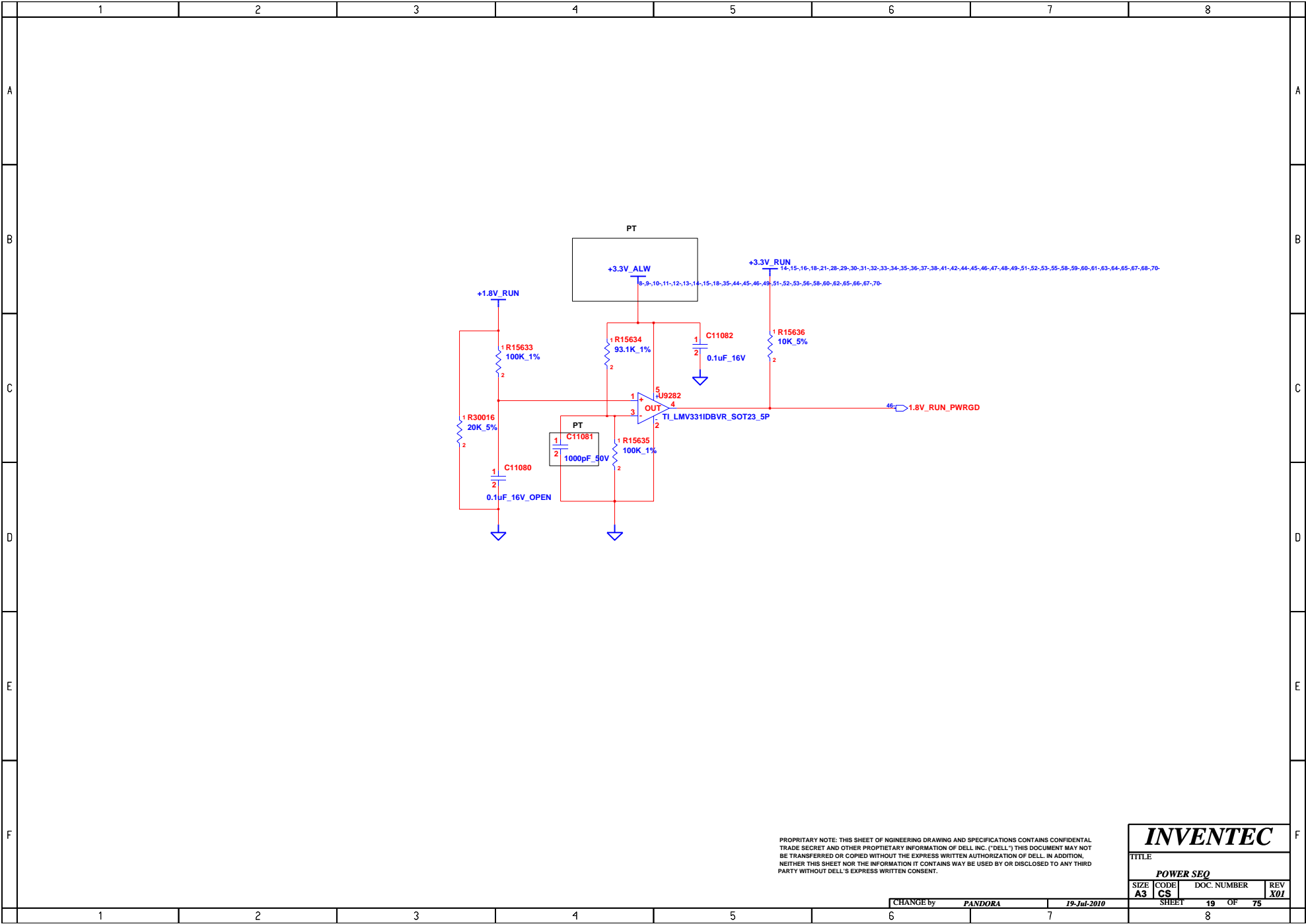
**INVENTEC**

TITLE			
POWER VCORE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	17	X01

CHANGE by PANDORA 19-Jul-2010

SHEET 17 OF 75

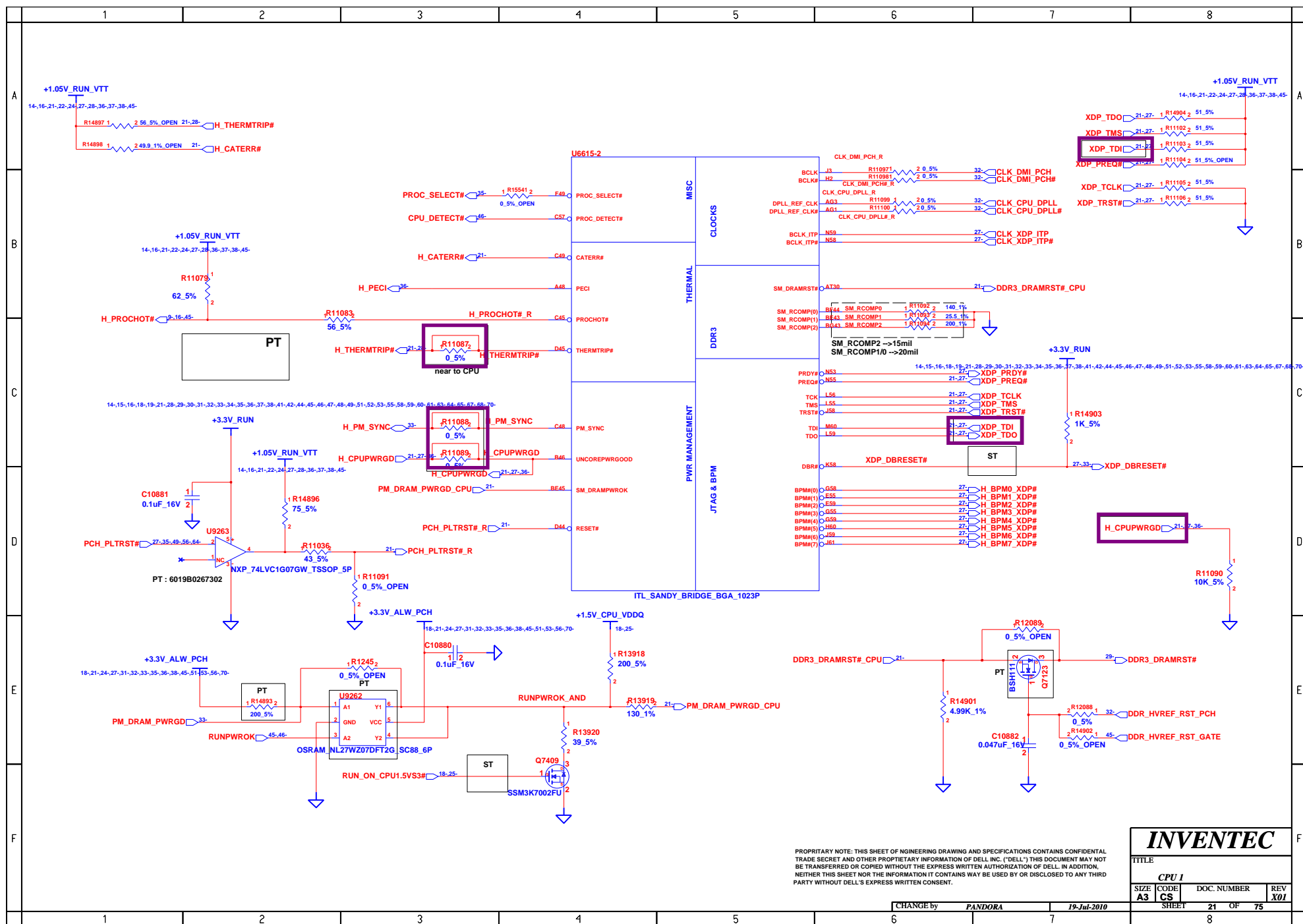


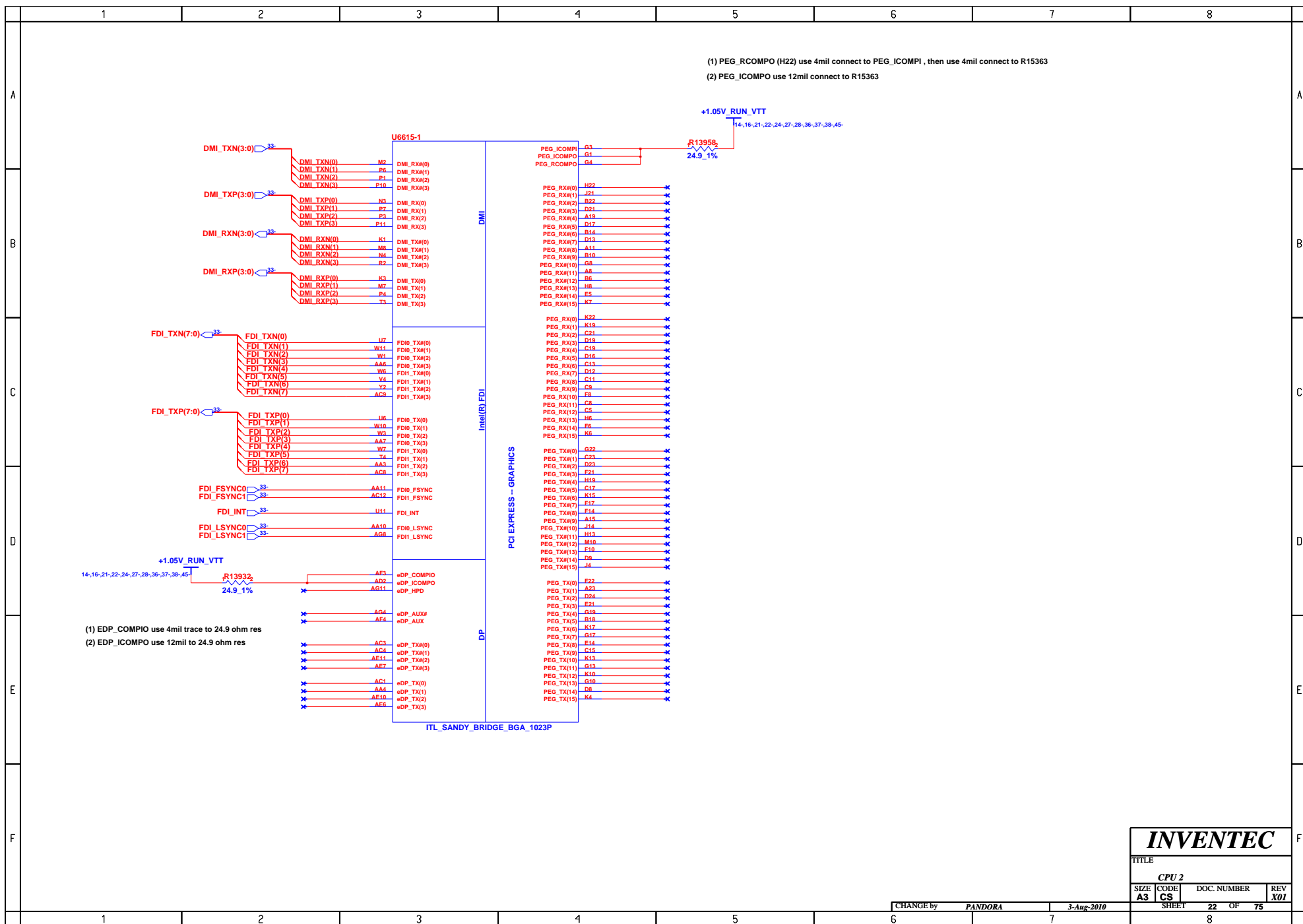


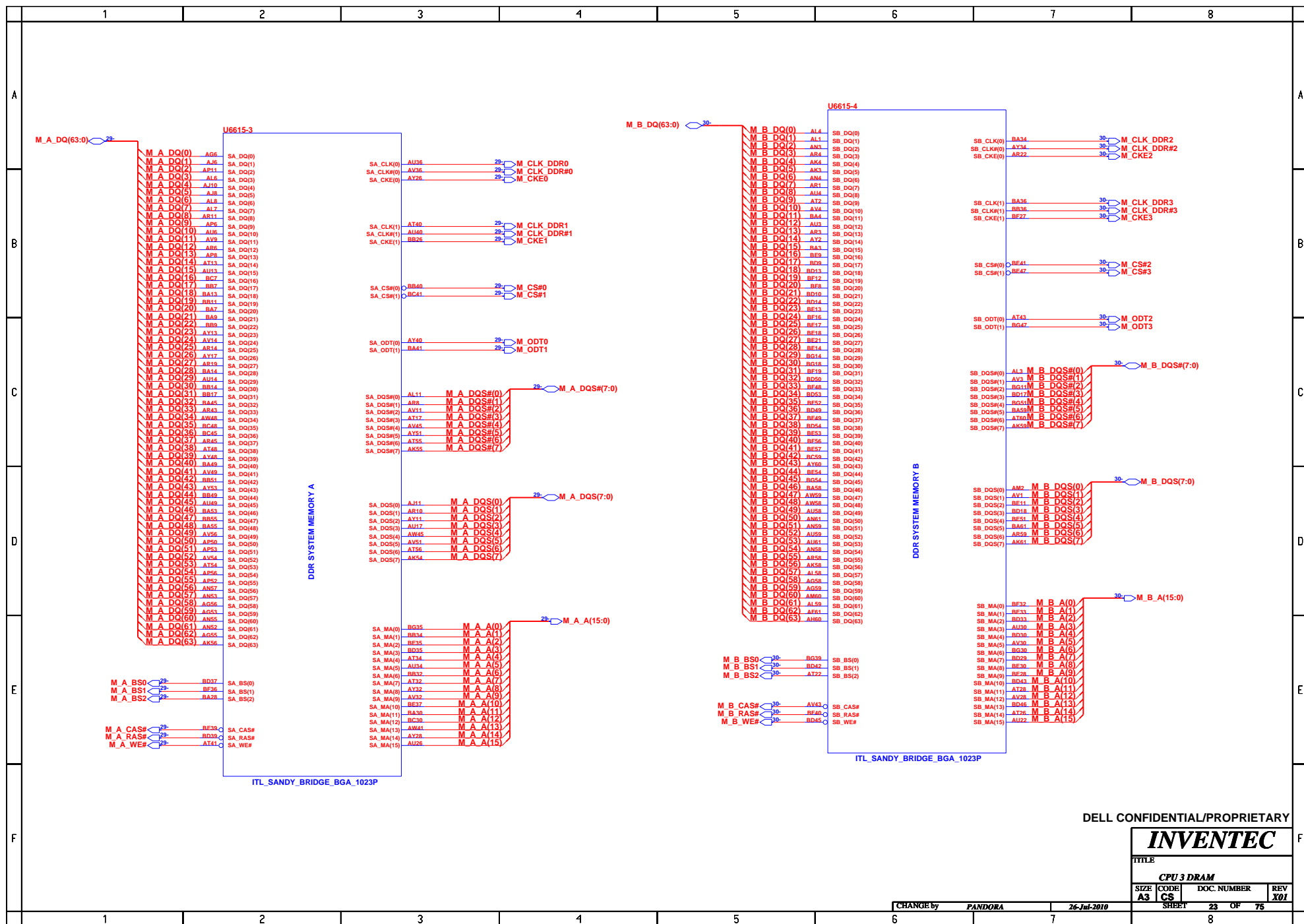
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

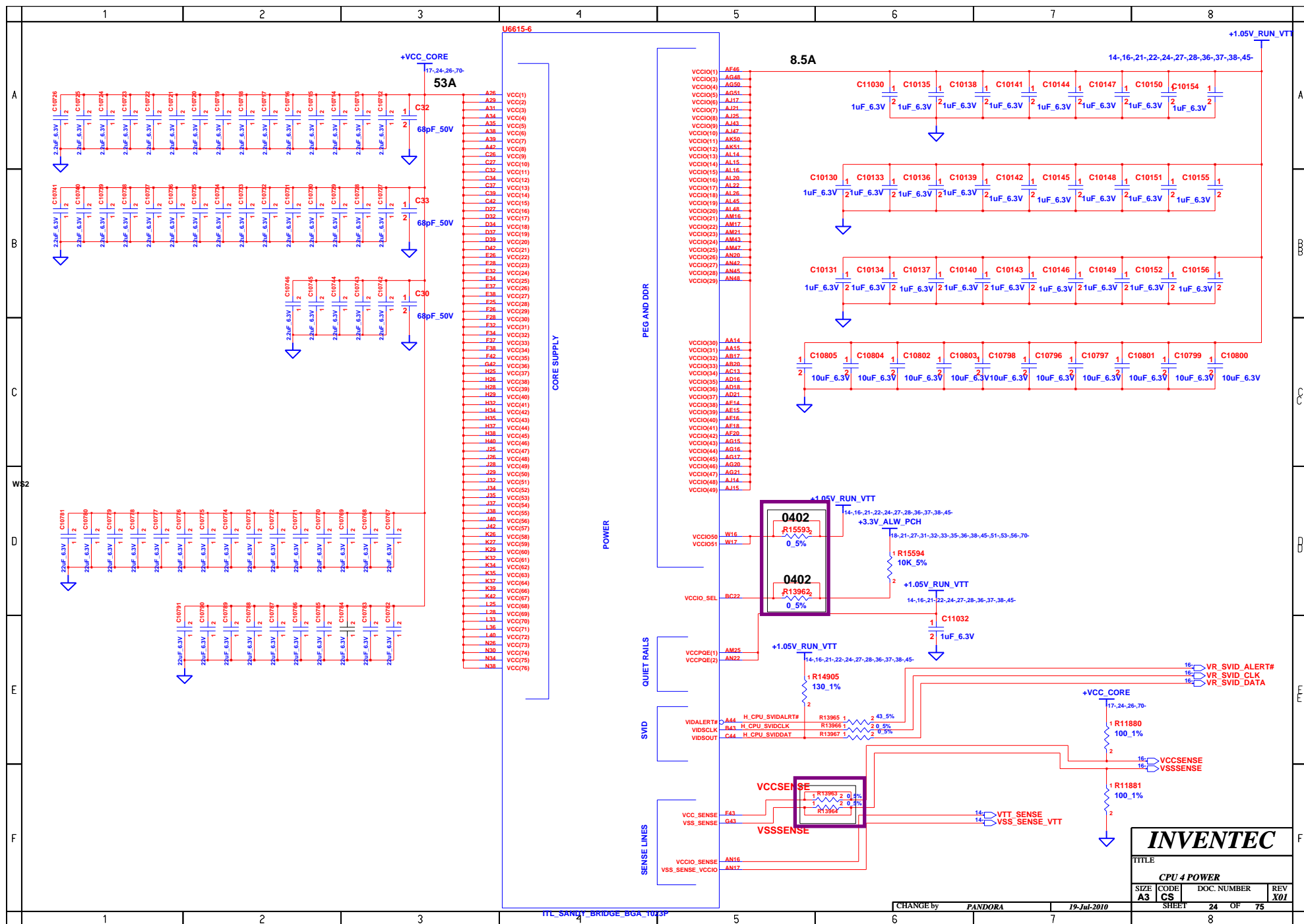
<b>INVENTEC</b>			
TITLE			
POWER SEQ			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		20	OF 75

CHANGE by PANDORA 19-Jul-2010

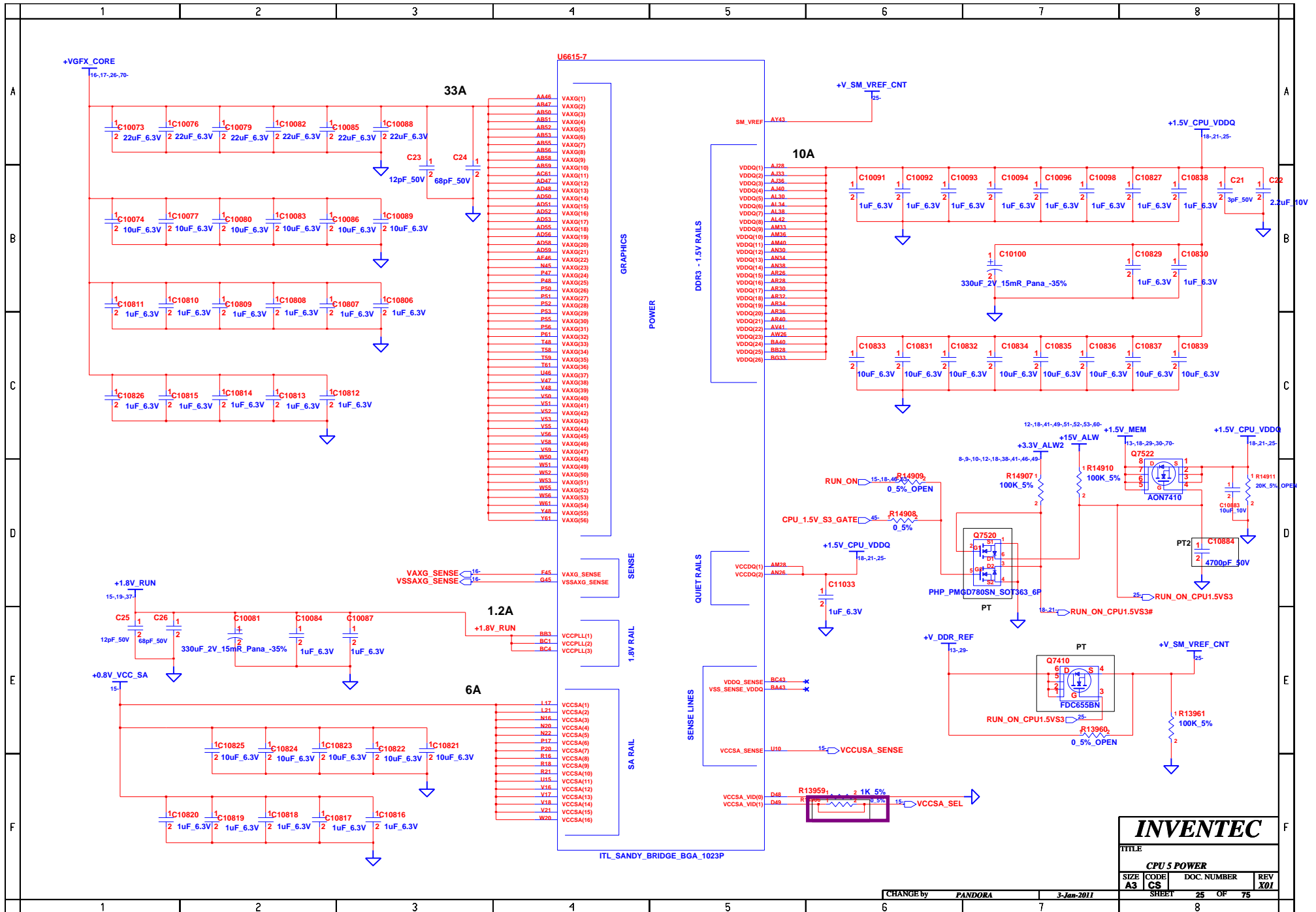








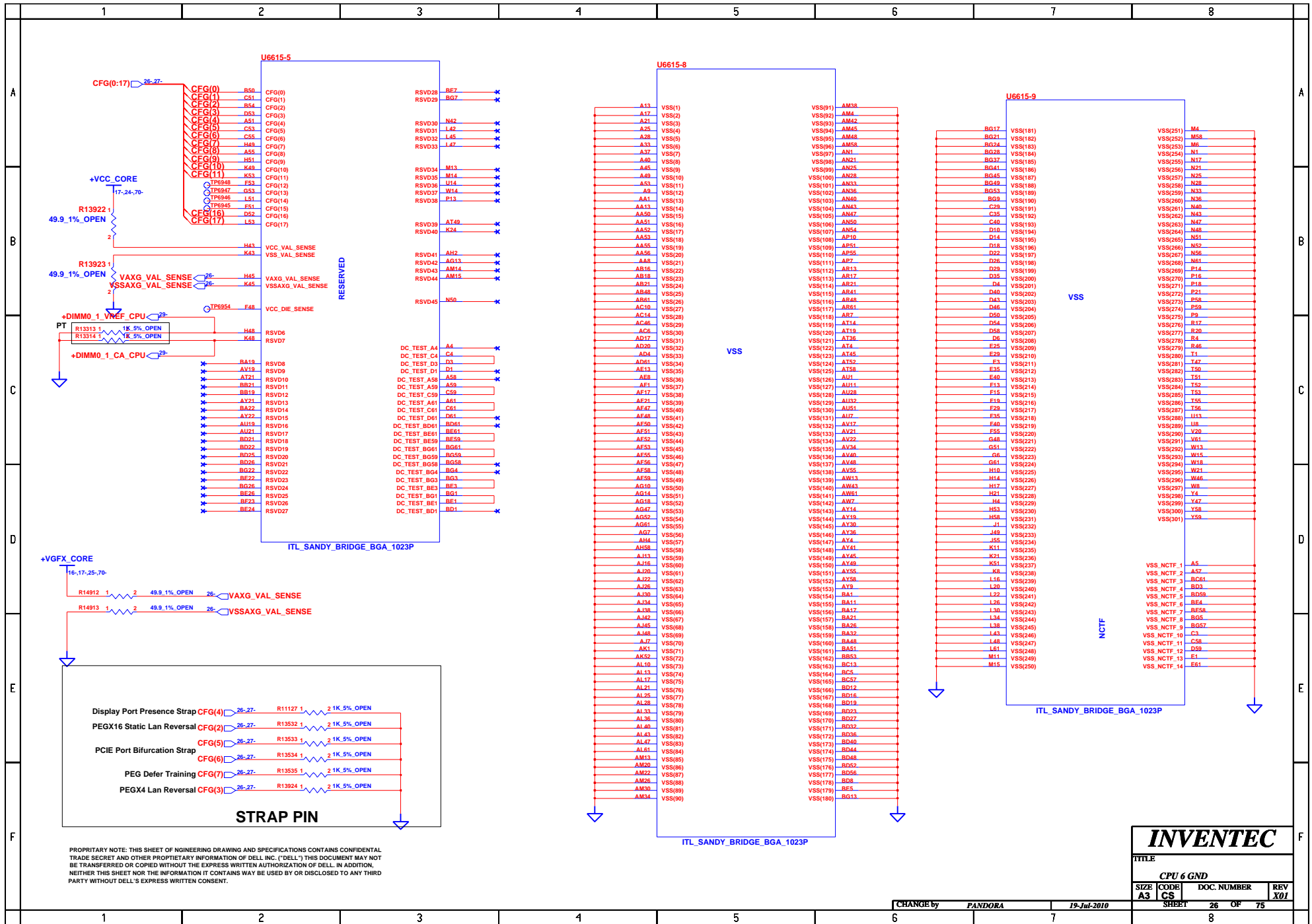


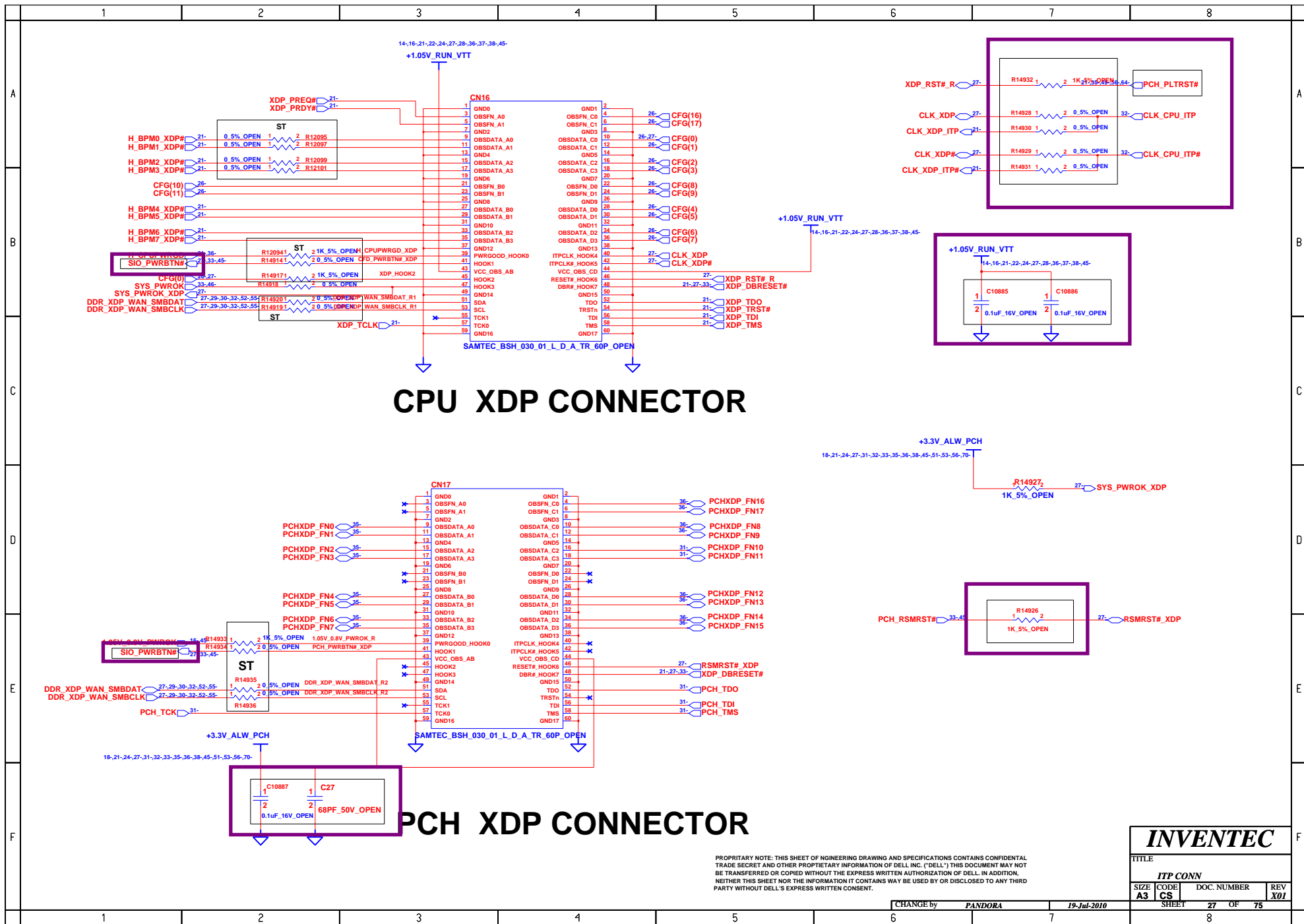


**INVENTEC**

TITLE			
CPU 5 POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		25 OF	75
		8	

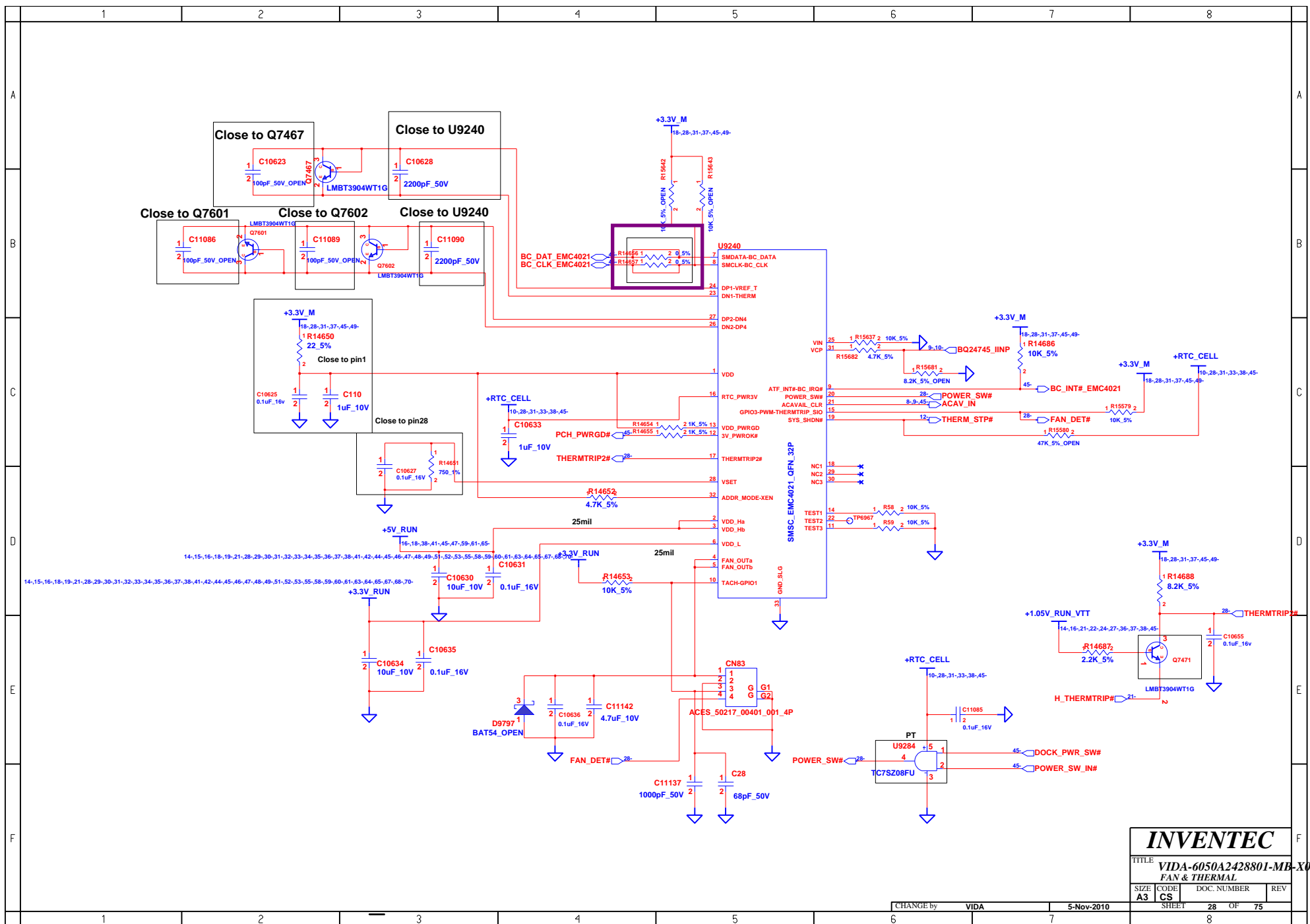
CHANGE by PANDORA 3-Jan-2011





PROPRIETARY NOTE: THIS SHEET OF ENGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL"). THIS DOCUMENT MAY NOT BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION, NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

INVENTEC			
TITLE			
ITP CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		27 OF 75	

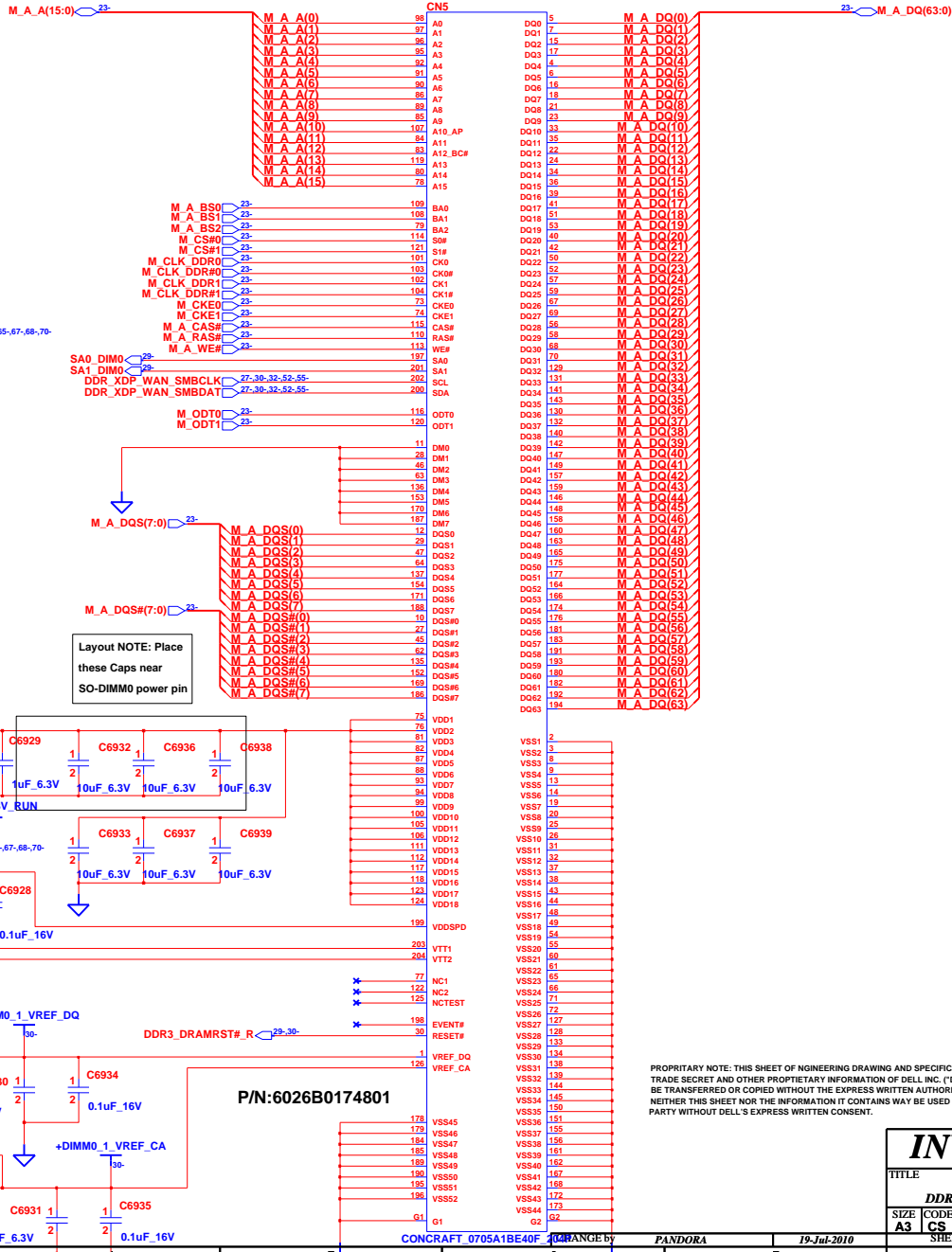


CHA

NOTE:

IF SA0\_DIM0=0, SA1\_DIM0=0  
SO-DIMMA SPD ADDRESS IS 0xA0  
SO-DIMMA TS ADDRESS IS 0x30

IF SA0\_DIM0=1, SA1\_DIM0=0  
SO-DIMMA SPD ADDRESS IS 0xA2  
SO-DIMMA TS ADDRESS IS 0x32



**CHB**

P/N: 6026B0157613

Layout Note: Place these Caps near SO-DIMM1 power pin

NOTE:  
SO-DIMMB SPD ADDRESS IS 0xA4  
SO-DIMMB TS ADDRESS IS 0x34

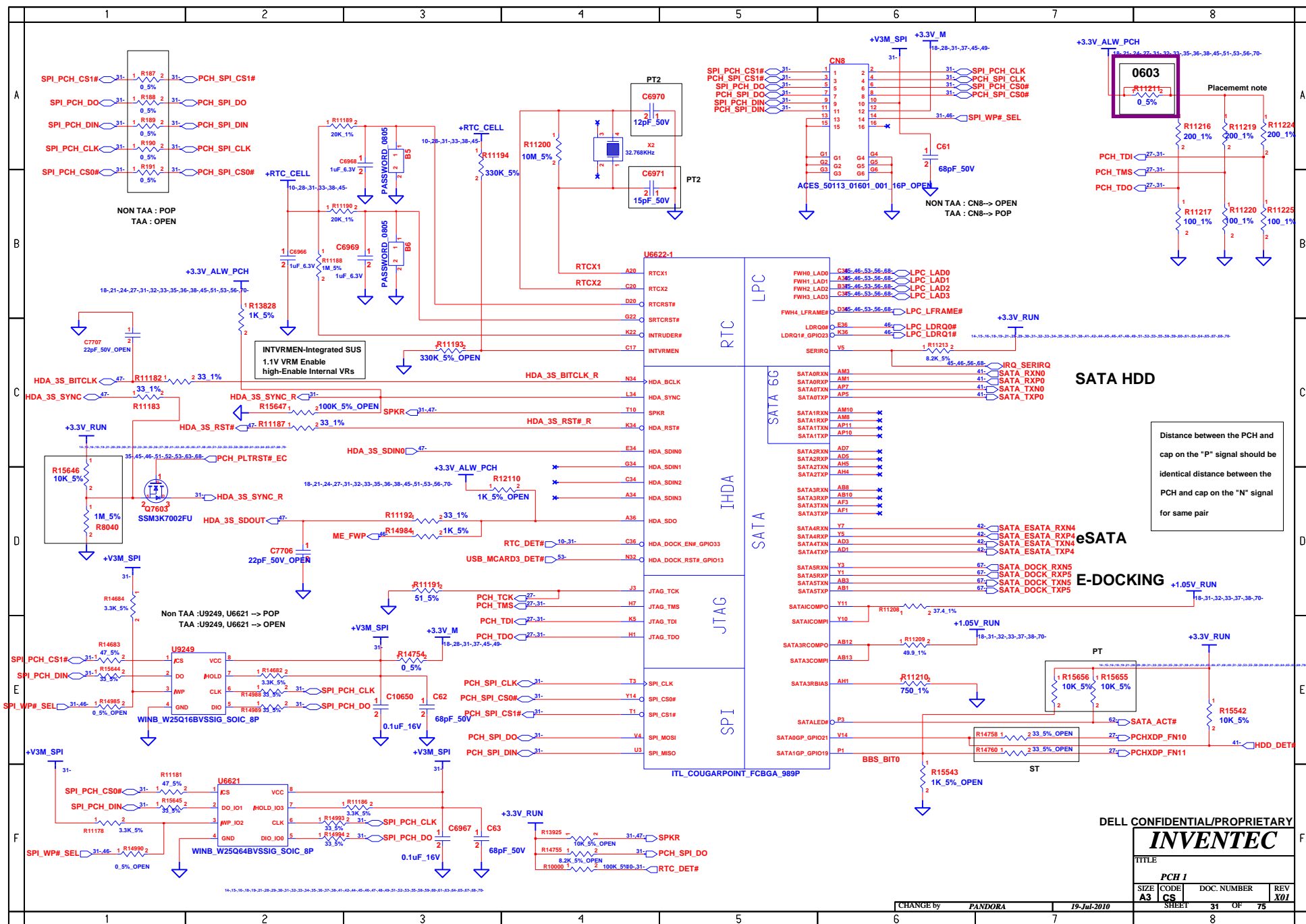
INVENTEC

SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01

CHANGE by PANDORA 19-Jul-2010 SHEET 8 OF 75

**INVENTEC**

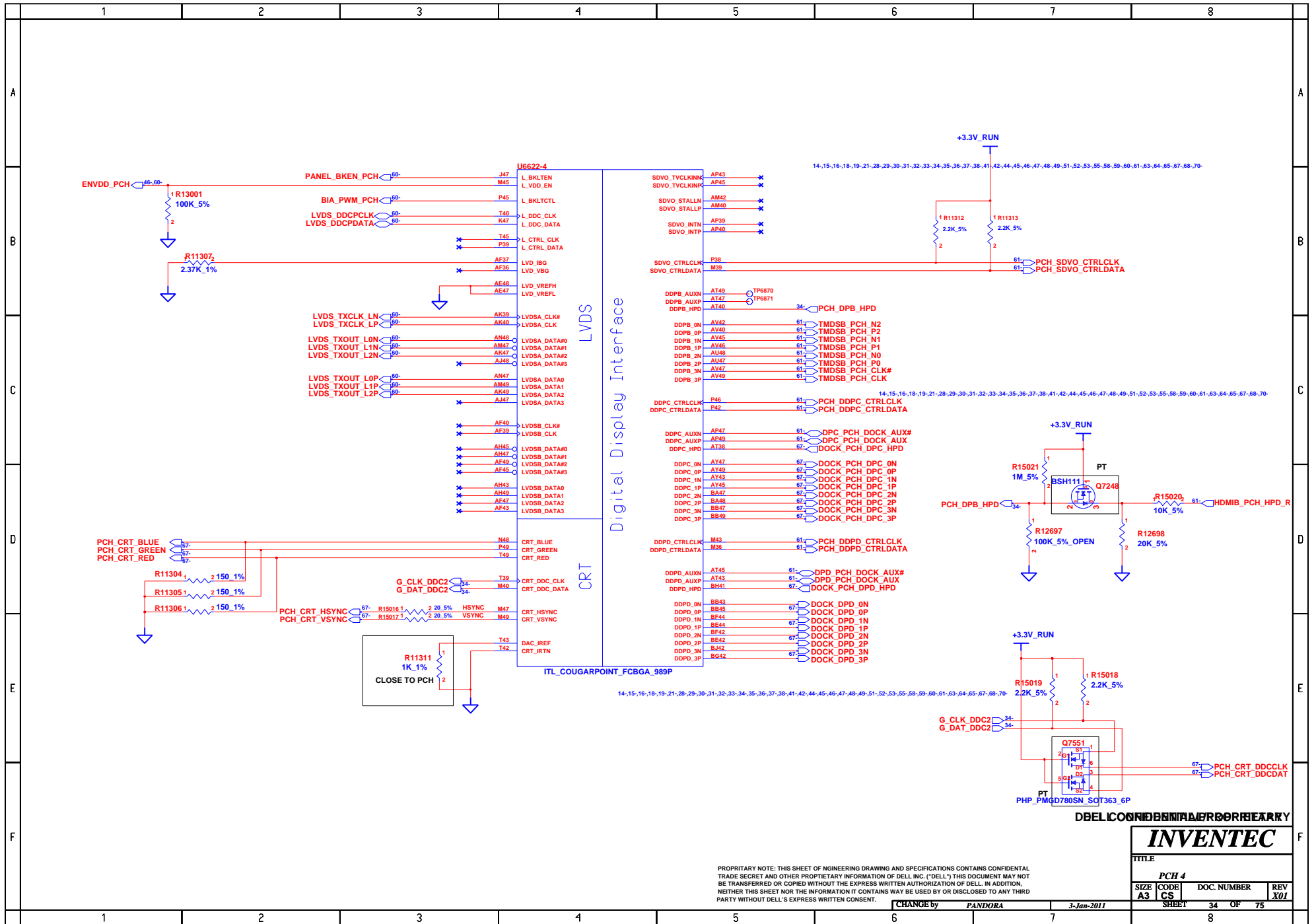
TITLE			
<b><i>DDR3 DIMM1</i></b>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV <b>X01</b>
SHEET		30	OF 75
8			







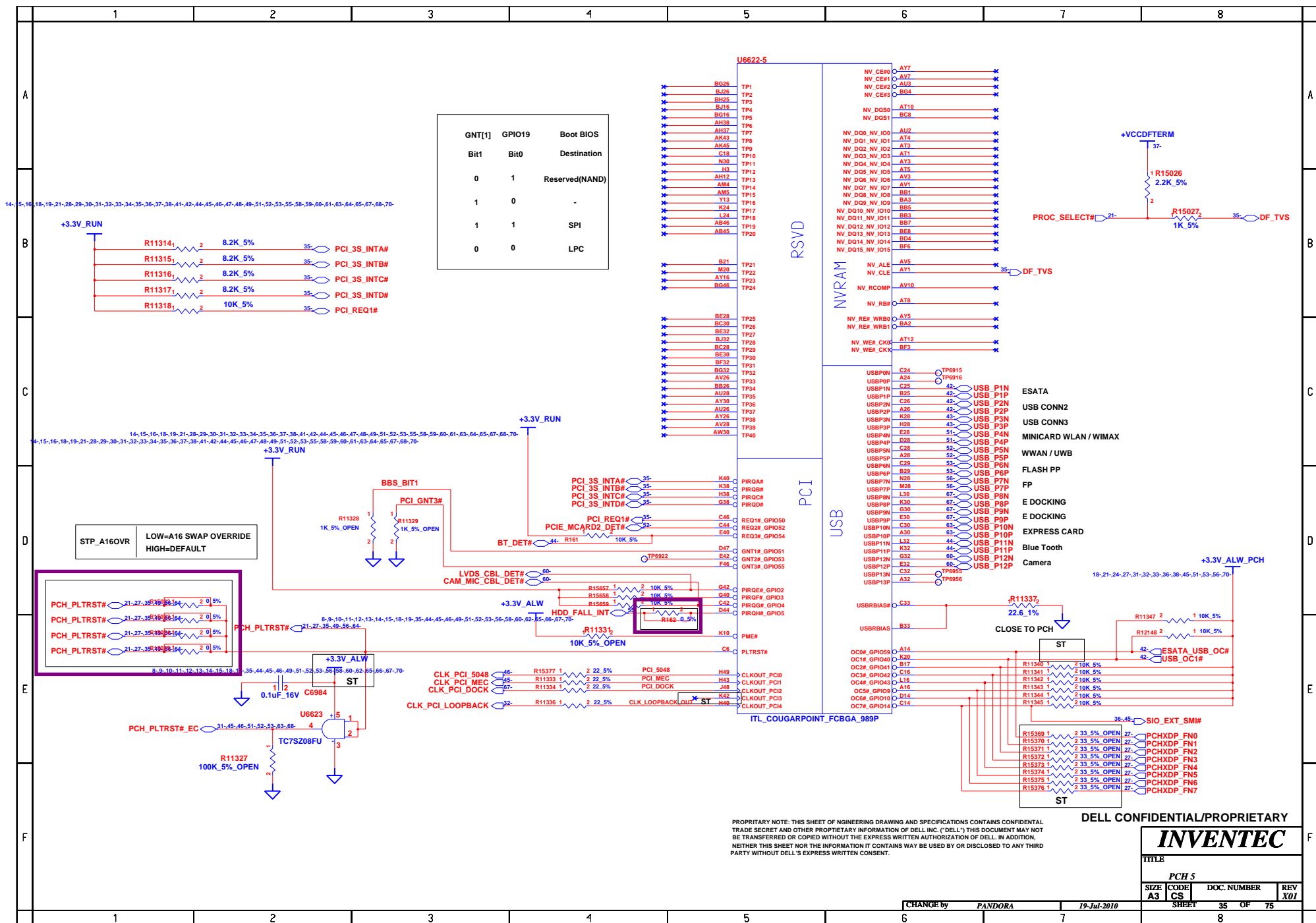


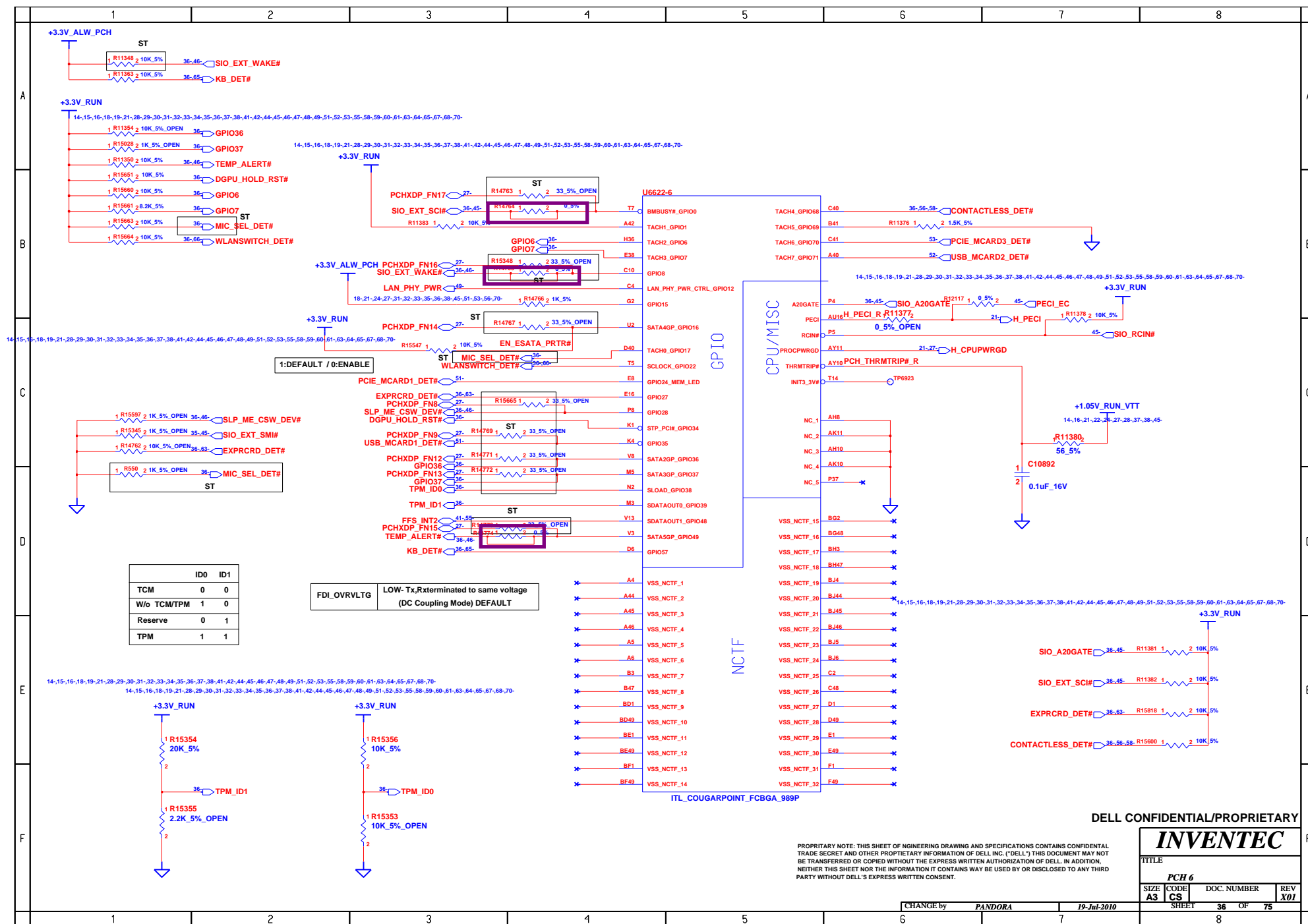


PROPRIETARY NOTE: THIS SHEET OF ENGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL") THIS DOCUMENT MAY NOT BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION, NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

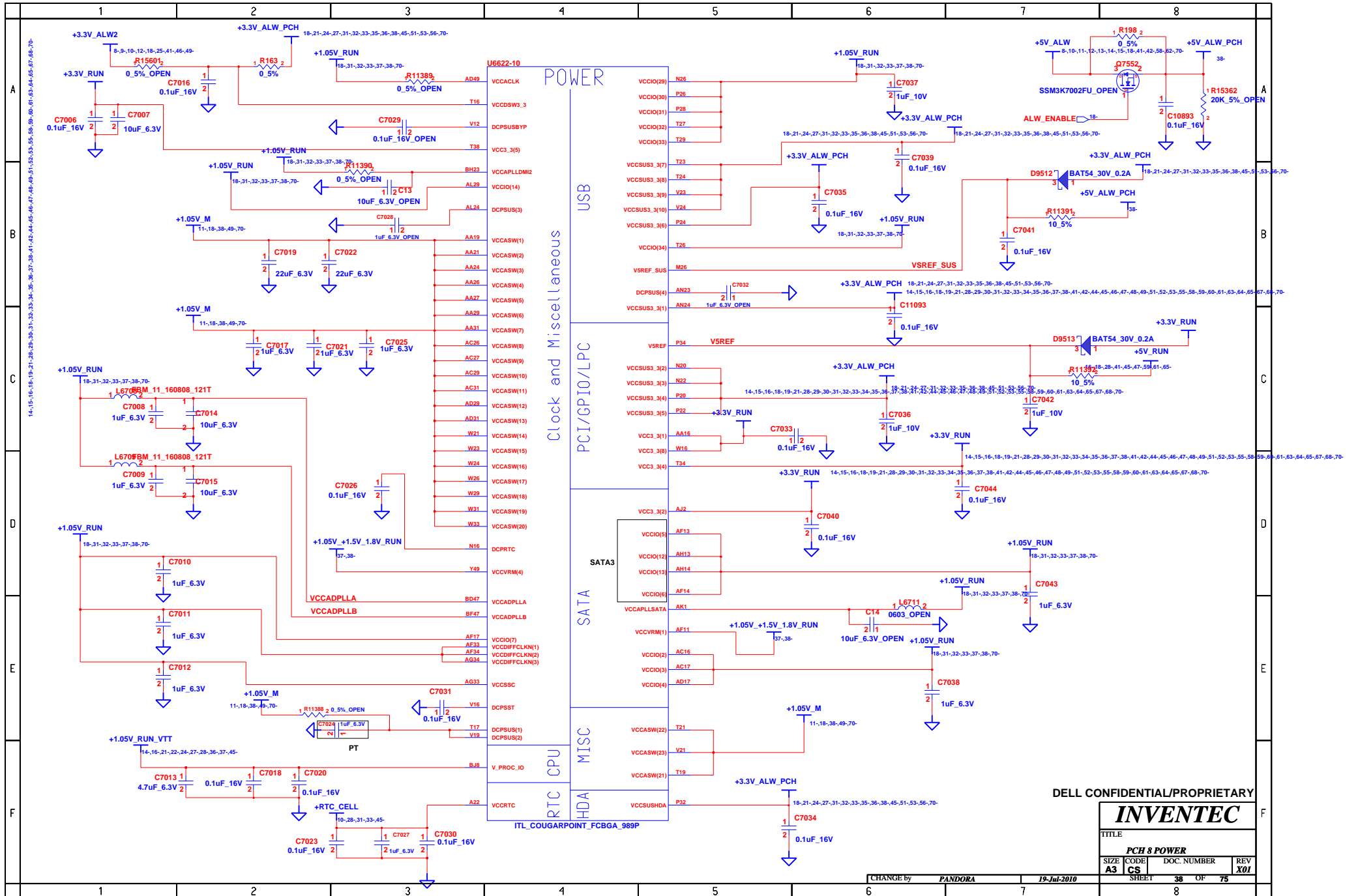
CHANGE by PANDORA 3-Jan-2011

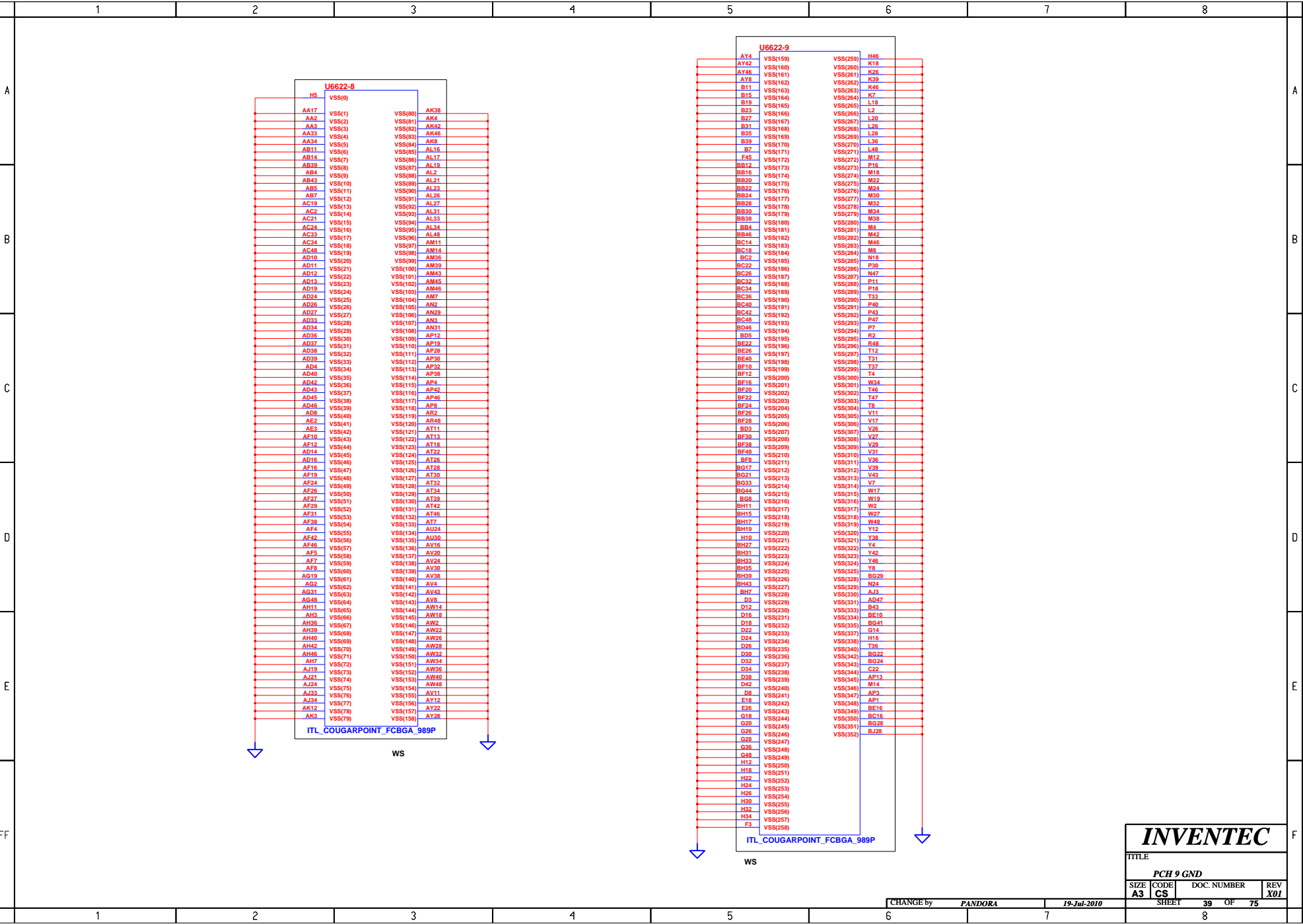
INVENTEC				
TITLE				
PCH 4				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	SHEET	34	OF 75
8				











INVENTEC

TITLE

PCH 9 GND

SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01

SHEET	39	OF	75
-------	----	----	----

CHANGE by PANDORA 19-Jul-2010

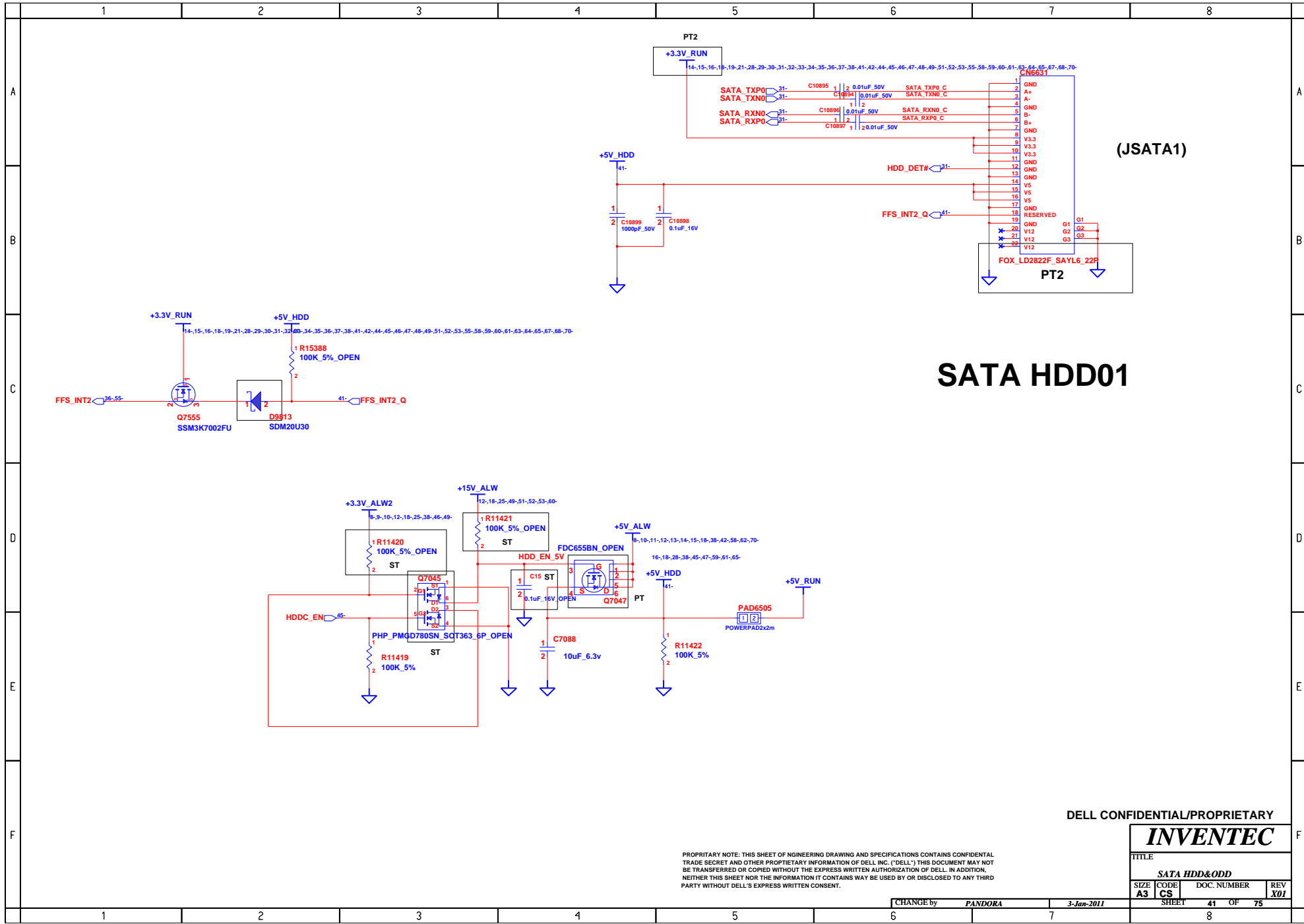
8

	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE			
CAMERA			
SIZE A3	CODE CS	DOC. NUMBER	REV X01
SHEET		40	OF 75

CHANGE by PANDORA 19-Jul-2010





SATA HDD01

DELL CONFIDENTIAL/PROPRIETARY

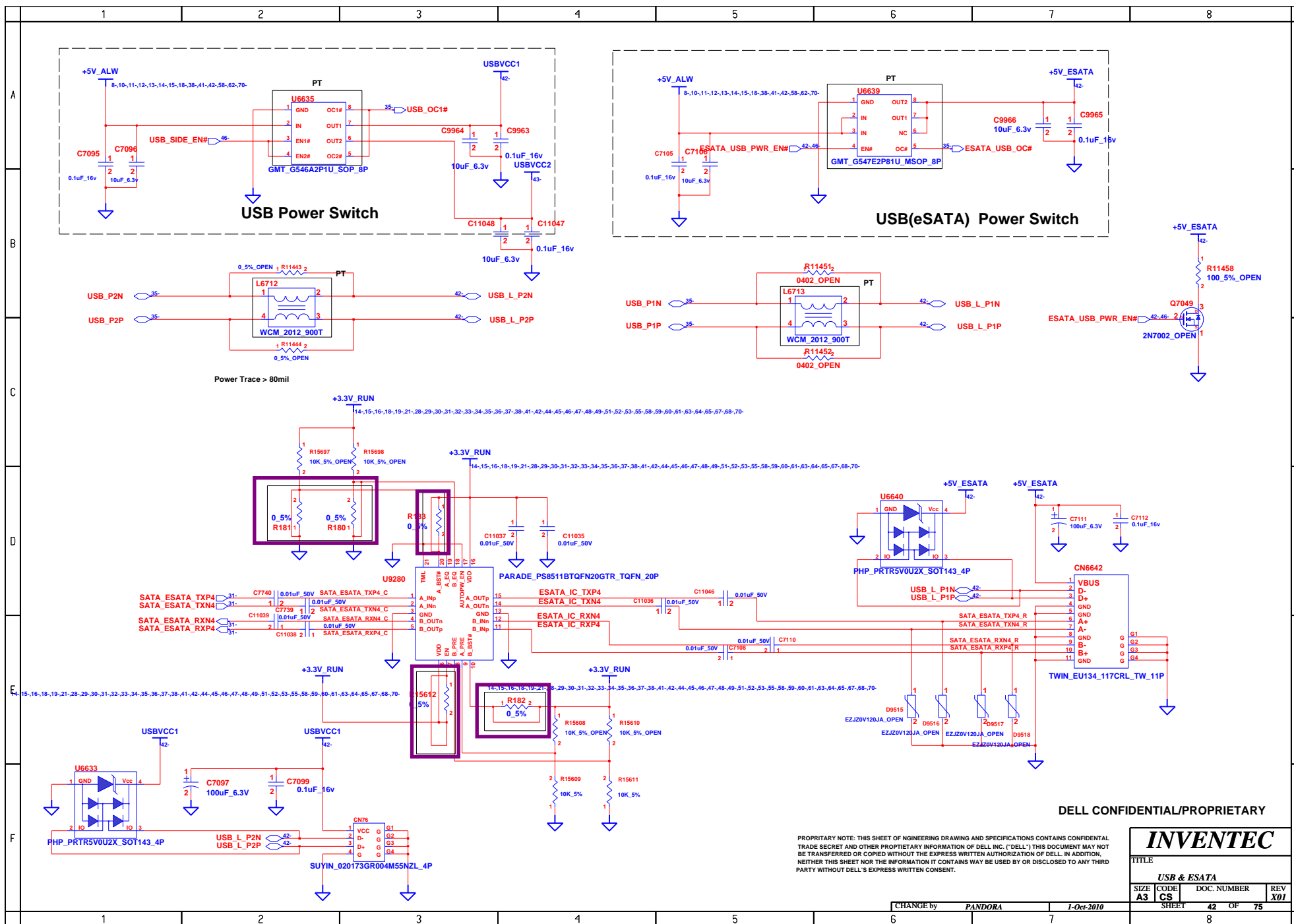
INVENTEC

PROPRIETARY NOTE: THIS SHEET OF ENGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL") THIS DOCUMENT MAY NOT BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION, NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

TITLE			
SATA HDD&ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01

CHANGE by PANDORA 3-Jan-2011

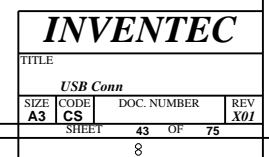
SHEET 41 OF 75

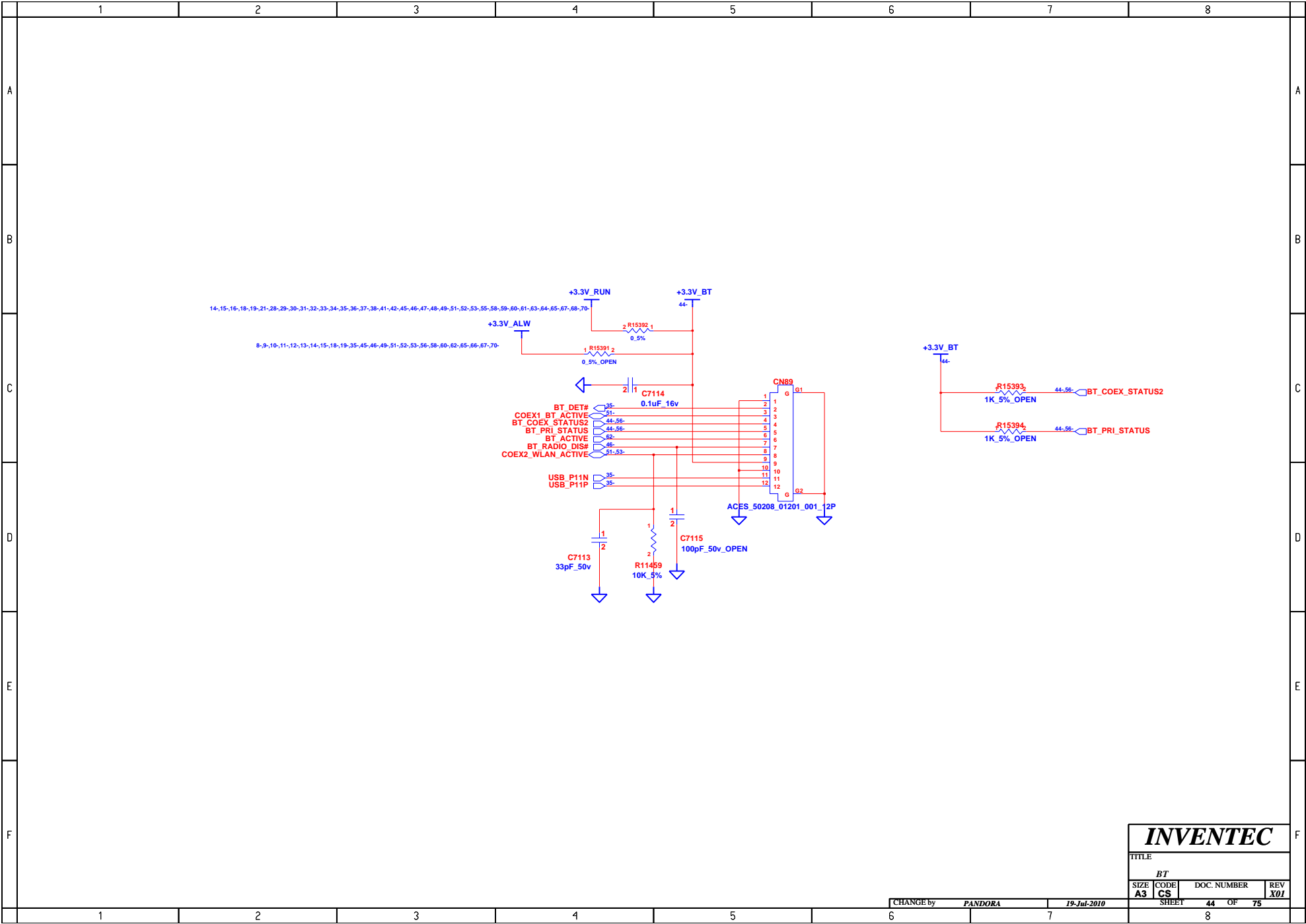


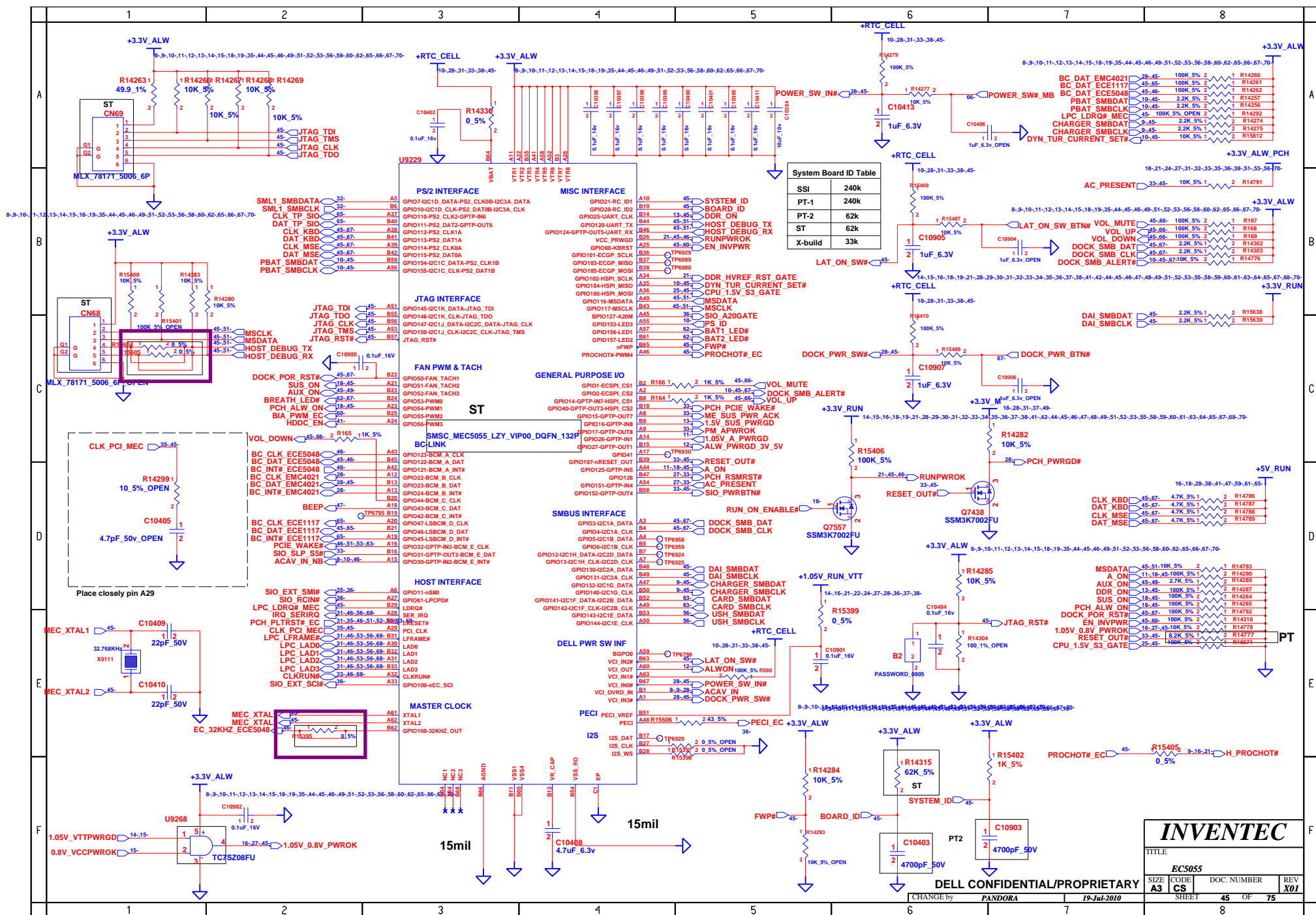
PROPRIETARY NOTE: THIS SHEET OF ENGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL") THIS DOCUMENT MAY NOT BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION, NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

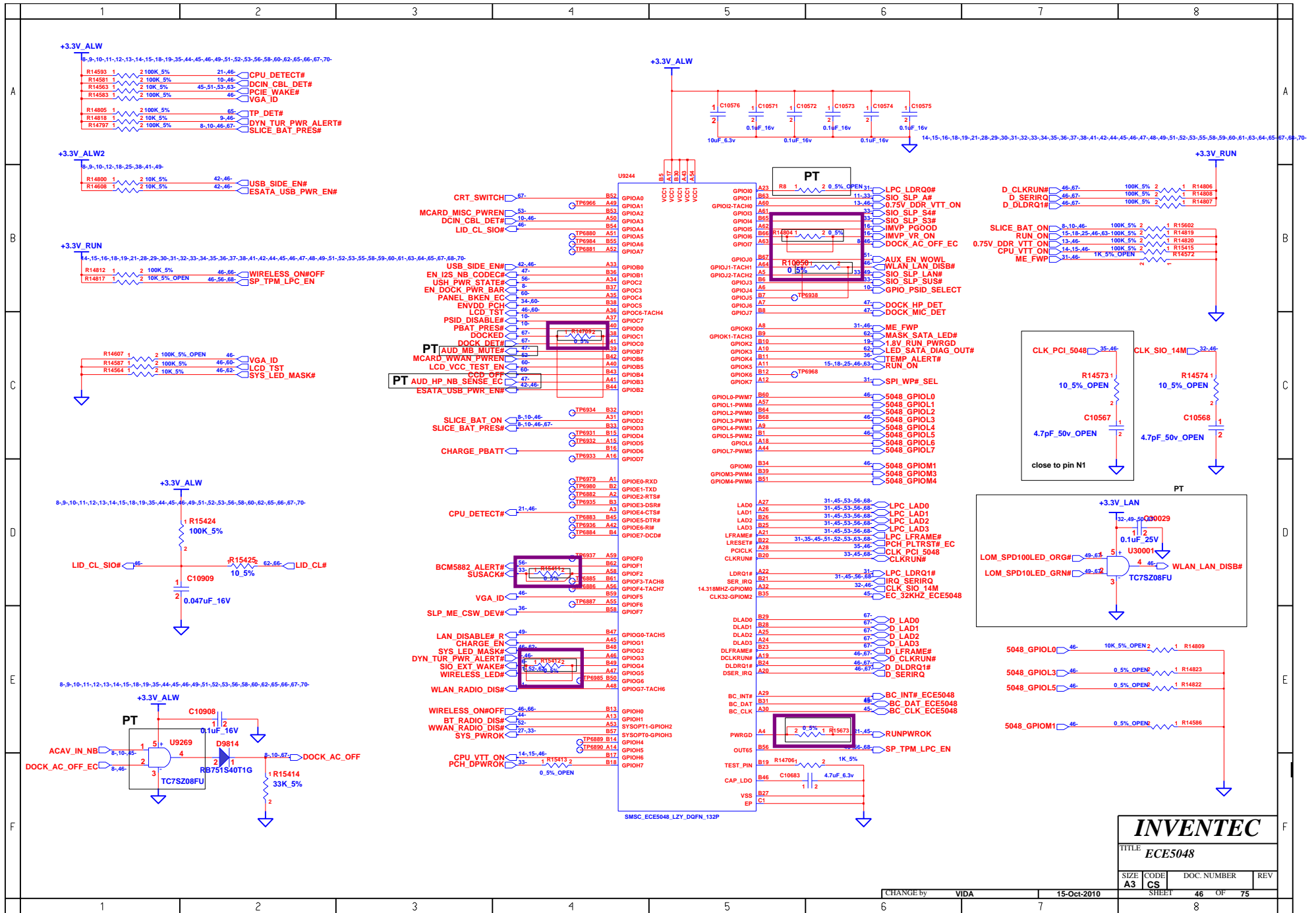
INVENTEC			
TITLE			
USB & ESATA			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		42 OF	75

CHANGE by **PANDORA** **1-Oct-2010**









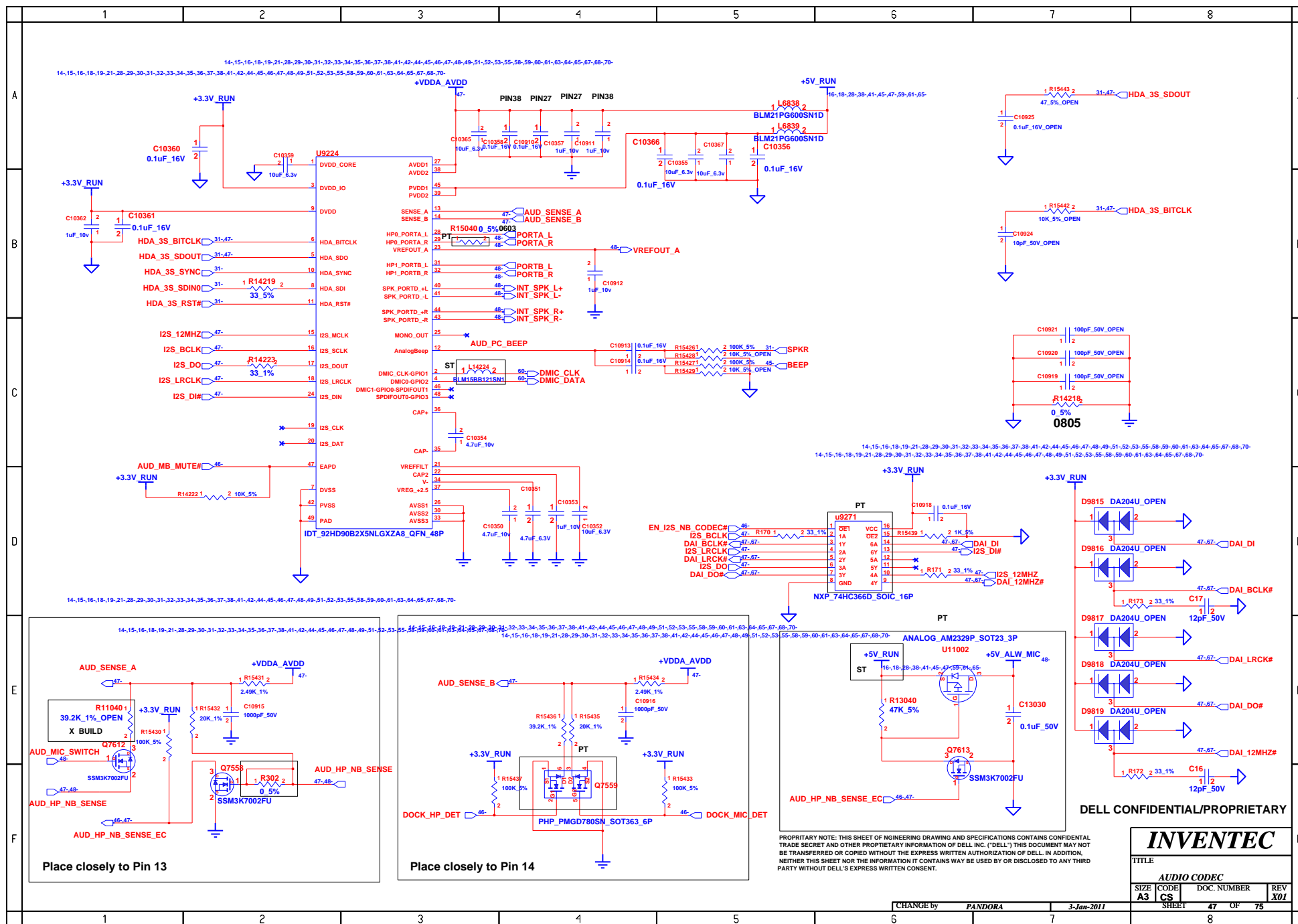
**INVENTEC**

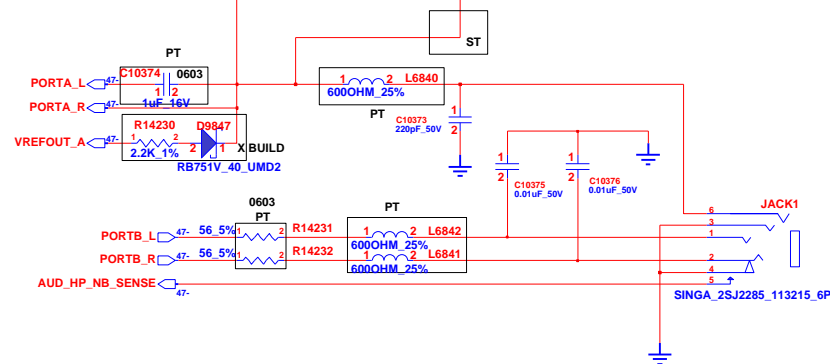
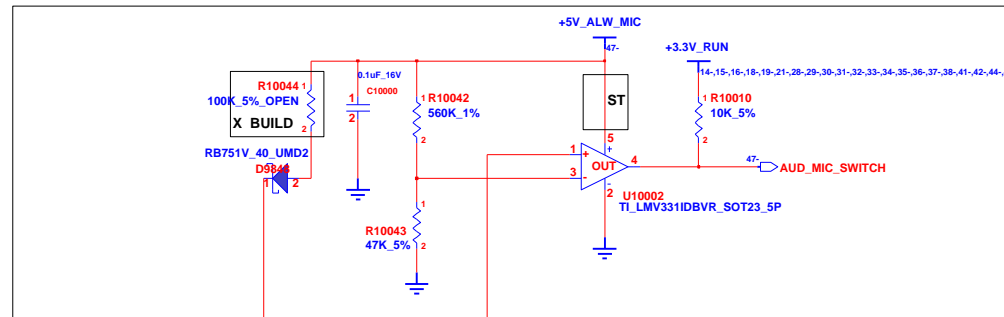
TITLE  
ECE5048

SIZE	CODE	DOC. NUMBER	REV
A3	CS		

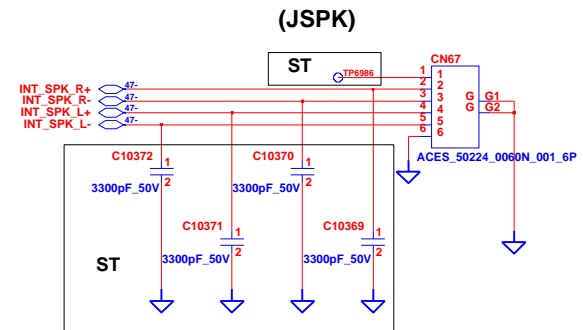
CHANGE by VIDA 15-Oct-2010

SHEET 46 OF 75





(JCOMBO)



(JSPK)

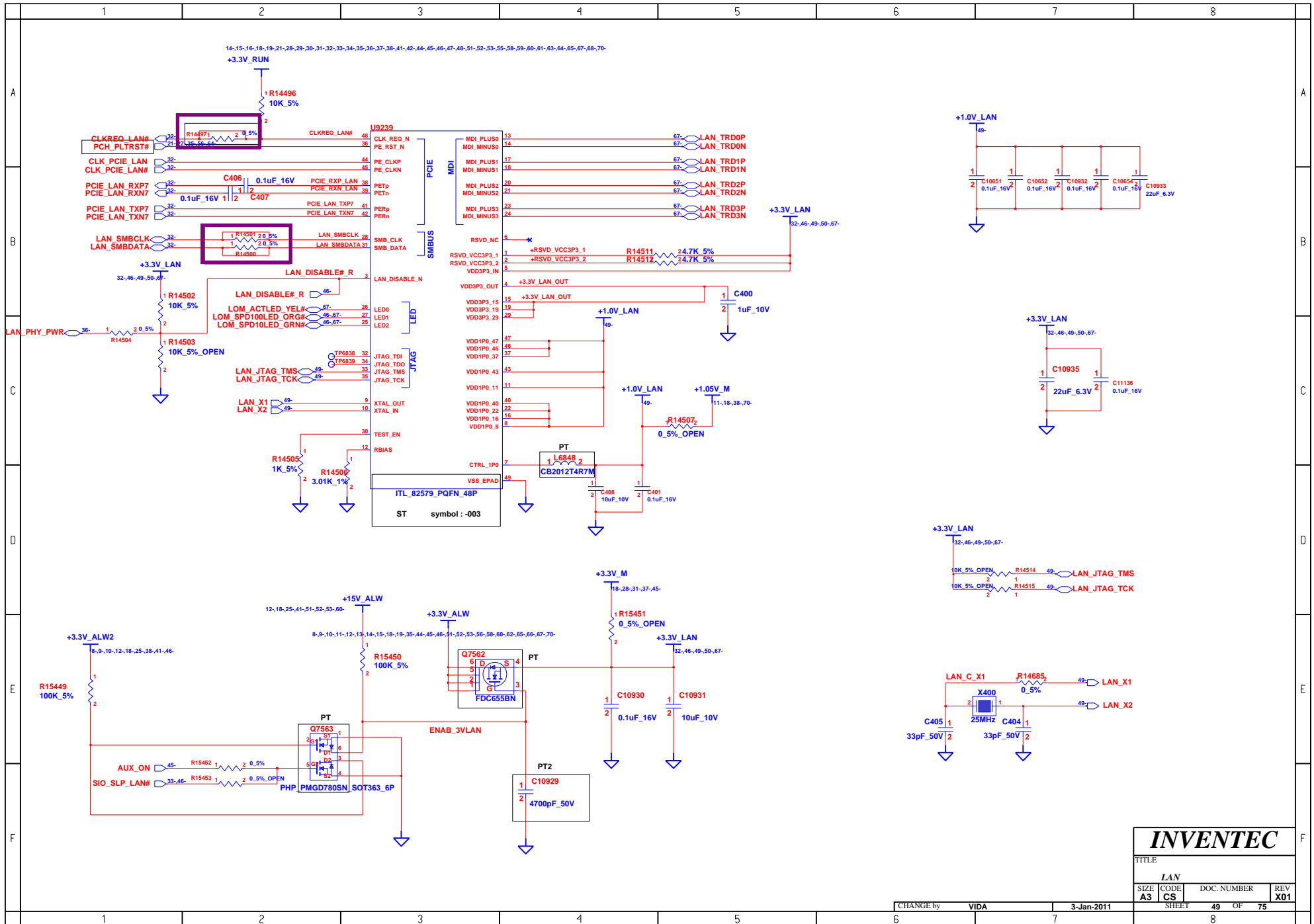
**INVENTEC**

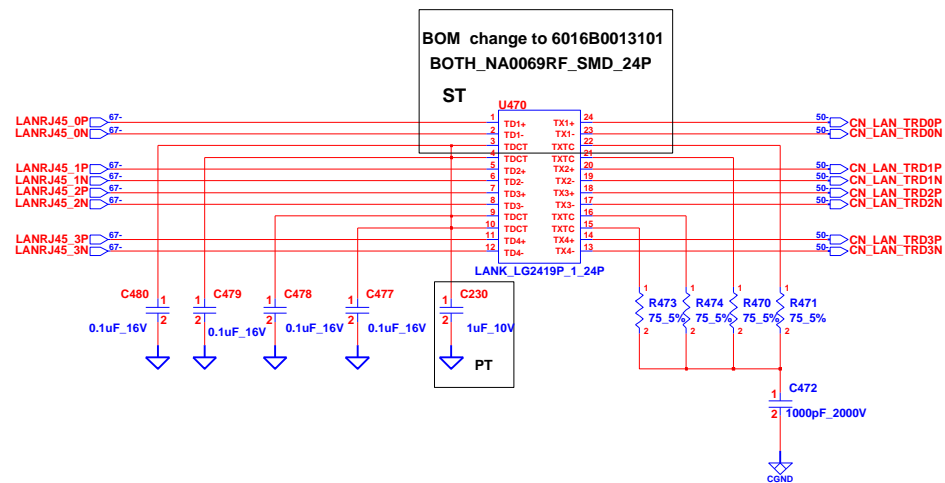
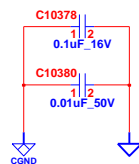
TITLE			
MDC/Speaker/Combo JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01

CHANGE by PANDORA 19-Jul-2010

SHEET 48 OF 75

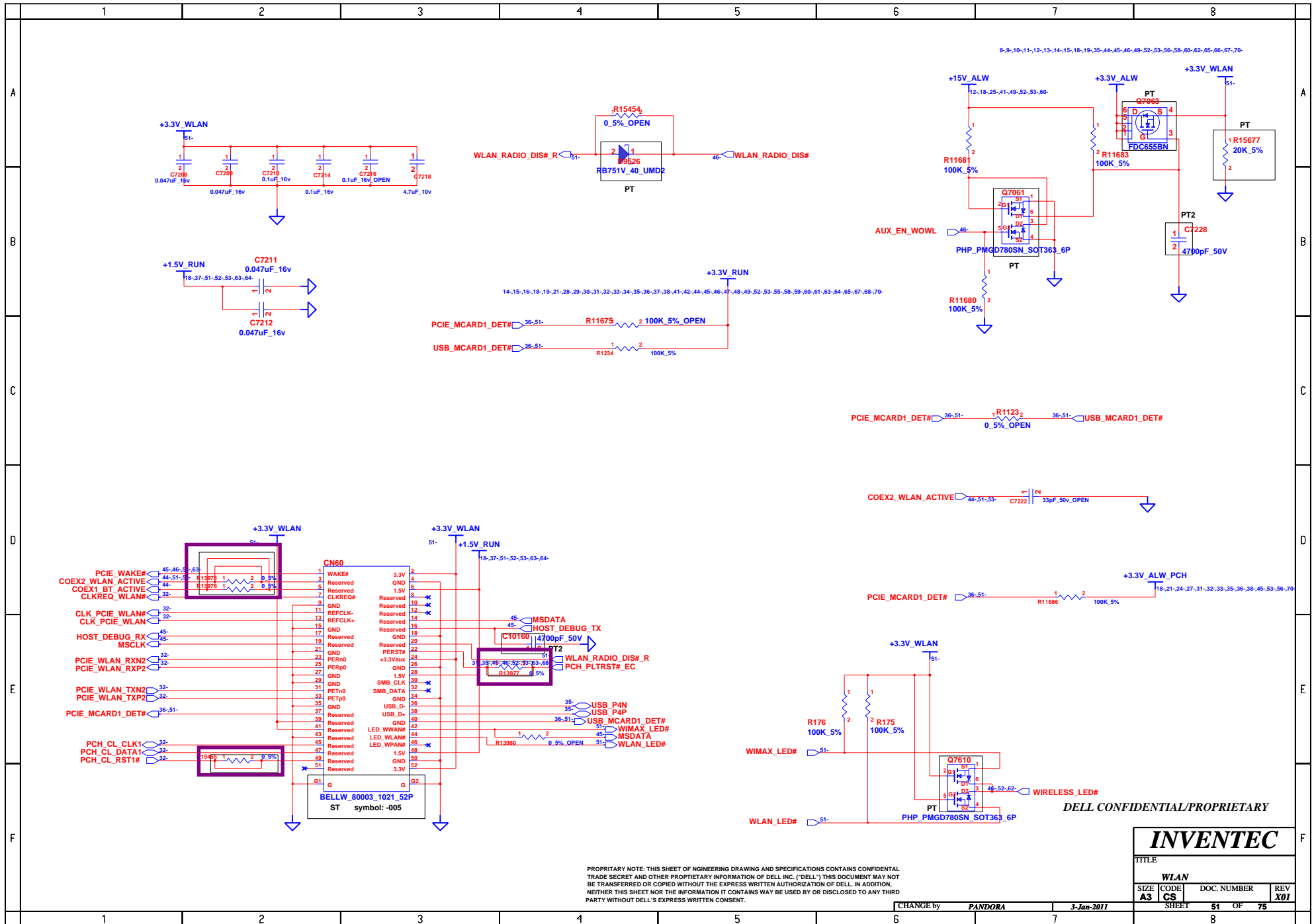






SI 11470

TITLE			
<b><i>RJ45/TRANSFORMER</i></b>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>		<b>X01</b>
SHEET		50	OF 75

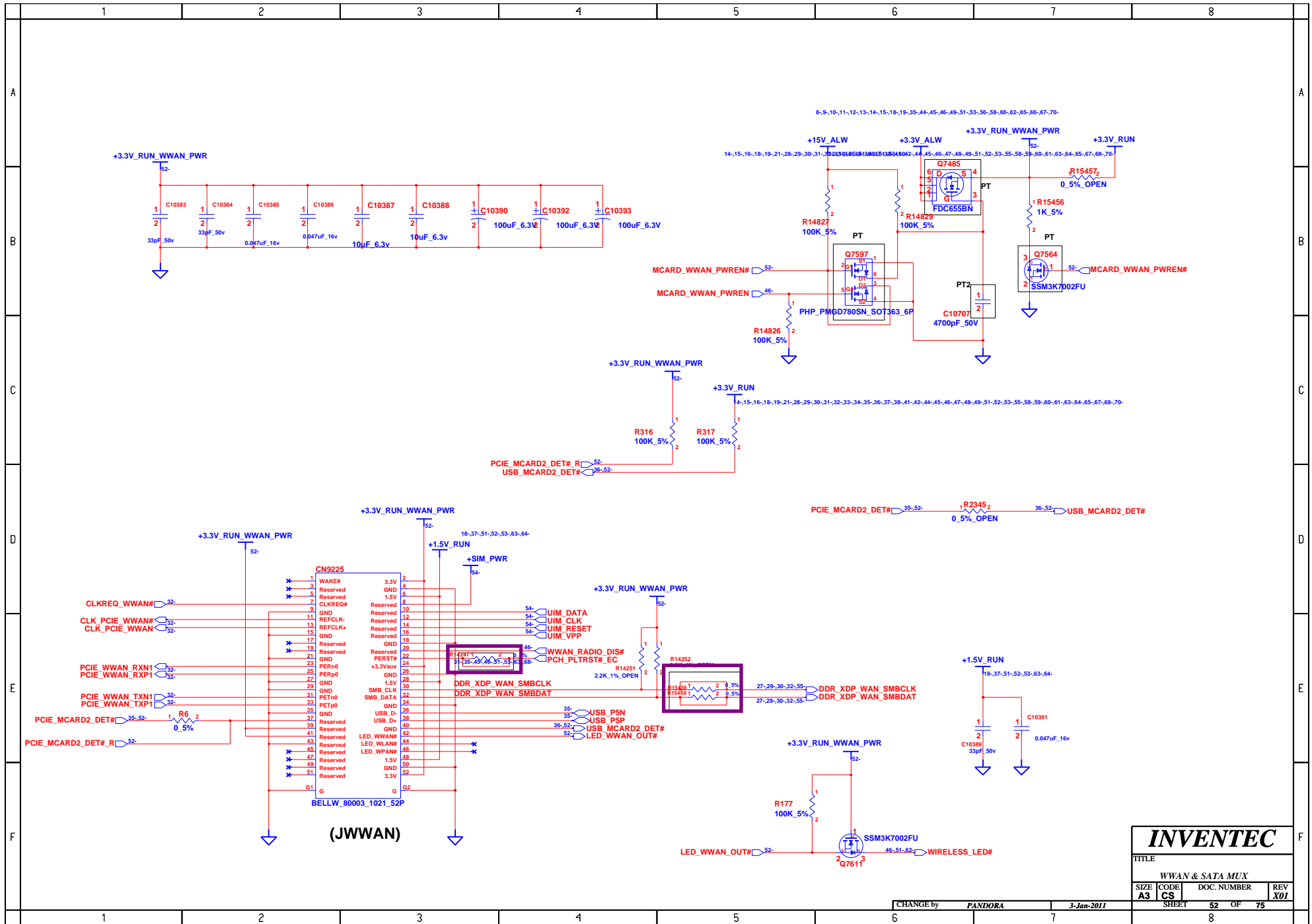


PROPRIETARY NOTE: THIS SHEET OF ENGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL") THIS DOCUMENT MAY NOT BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION, NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

CHANGE by **PANDORA** **3-Jan-2011**

**INVENTEC**

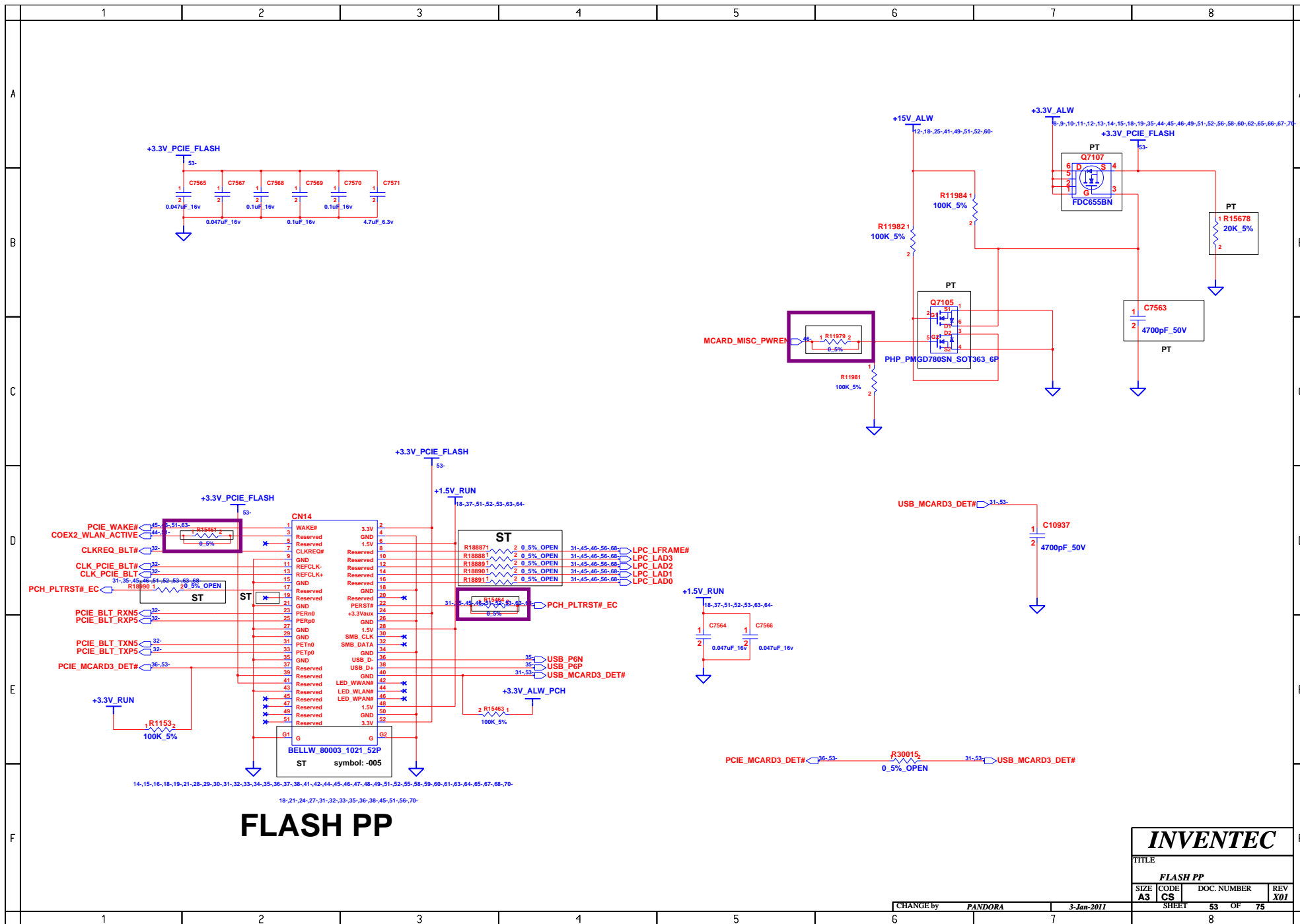
TITLE			
WLAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		51	OF 75



**INVENTEC**

TITLE		
WWAN & SATA MUX		
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>REV X01</b>
SHEET	52	OF 75

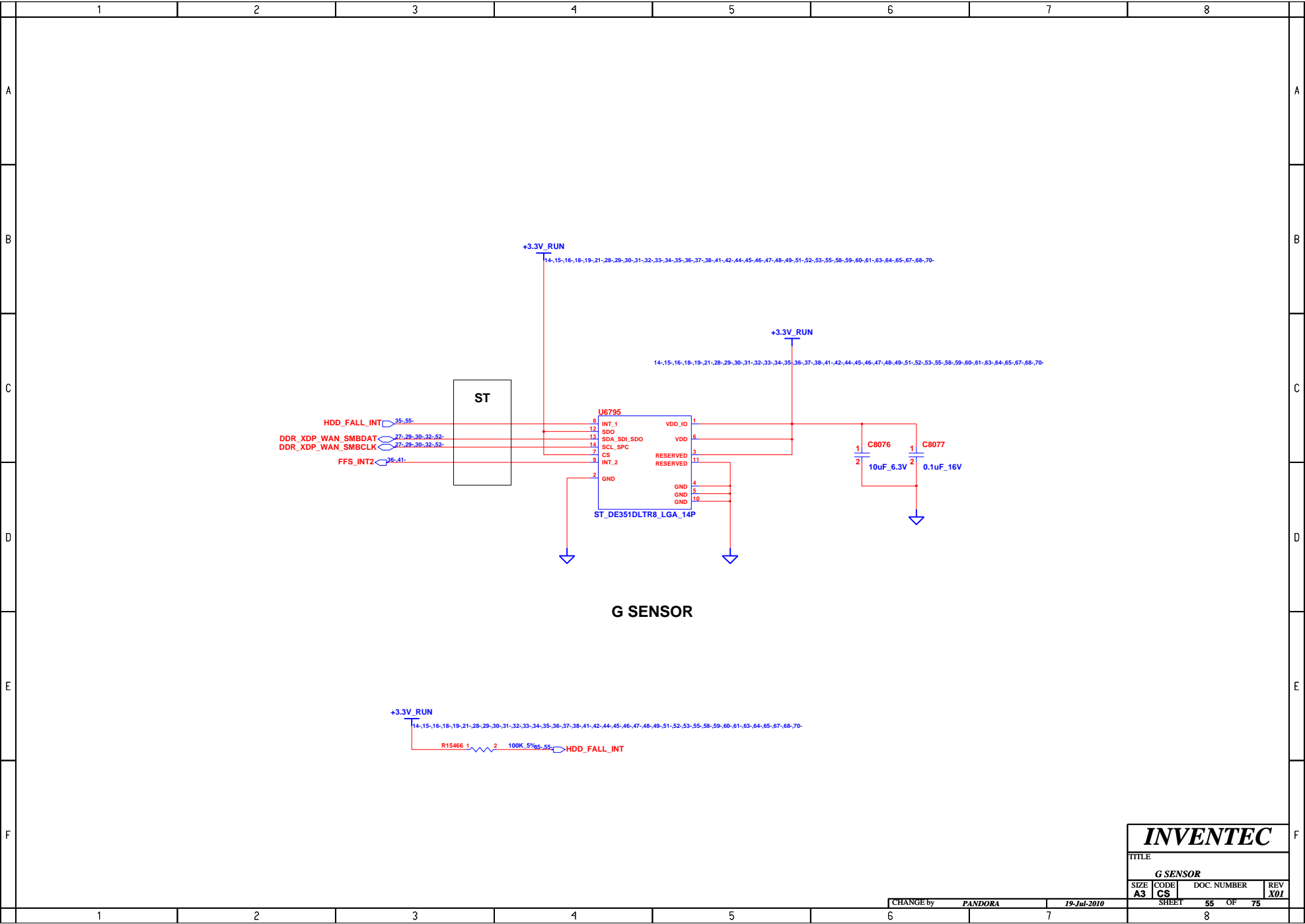
CHANGE by **PANDORA** 3-Jan-2011

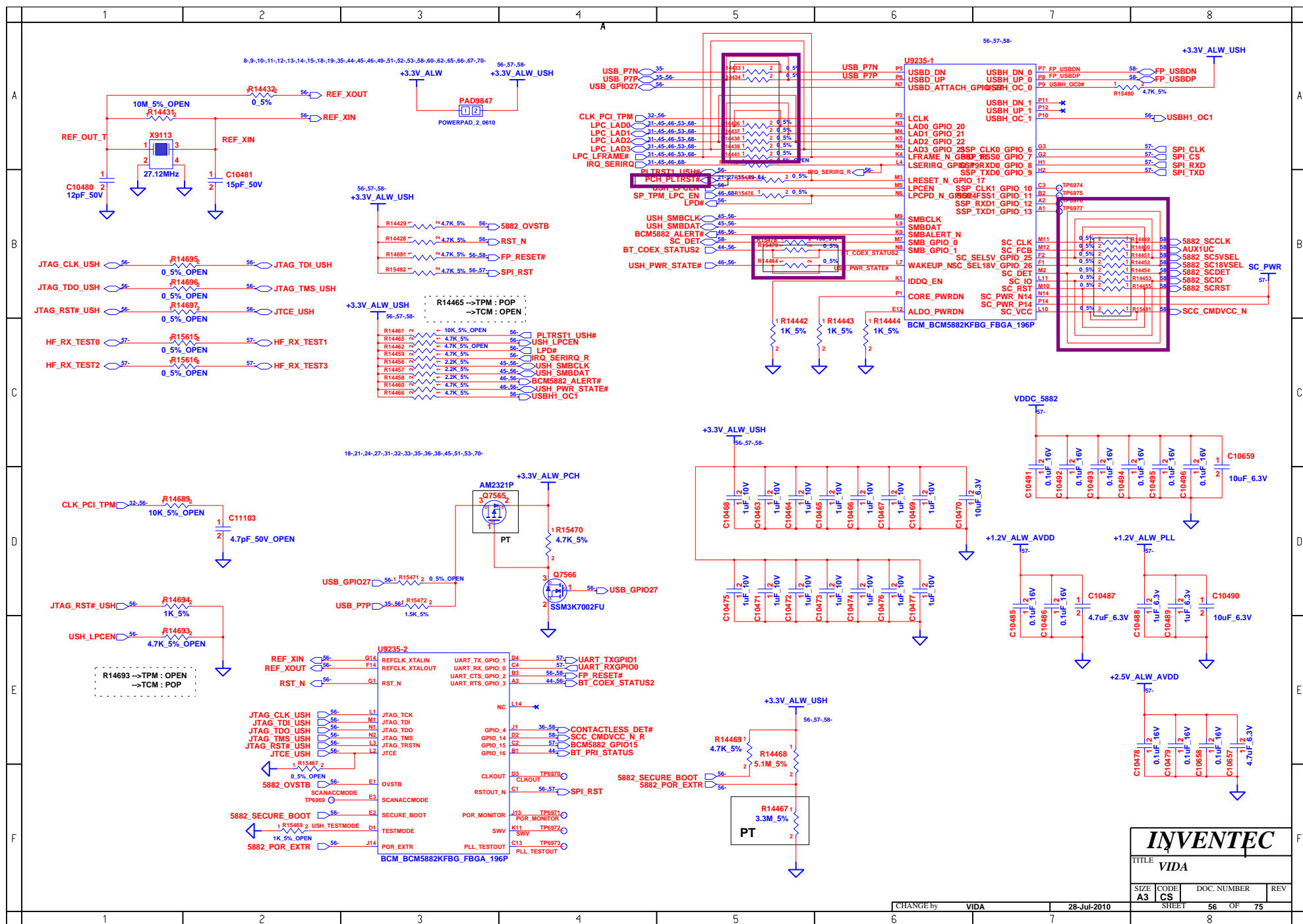


The schematic diagram illustrates the internal wiring of the UIM module. It features two primary integrated circuits: **D9676** (SEM\_SRV05\_4.TCT\_SOT23\_6P) and **CN79** (ACES\_91716\_00942\_9P). The circuit is powered by **+SIM\_PWR** and **+SIM\_PWR** rails. Key signals include **UIM\_RESET**, **UIM\_CLK**, **UIM\_VPP**, and **UIM\_DATA**. The diagram shows various passive components, including capacitors (C9275, C9274, C9272, C9273) with values of 33pF\_50v, and a larger capacitor (C9276) with a value of 1uF\_10v. Ground connections are indicated by blue triangles. The component values and part numbers are highlighted in red in the original image.

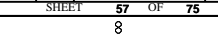
**(JSIM)**

<b><i>INVENTEC</i></b>			
TITLE			
<i>SIM CARD</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV <i>X01</i>
SHEET		54	OF 75

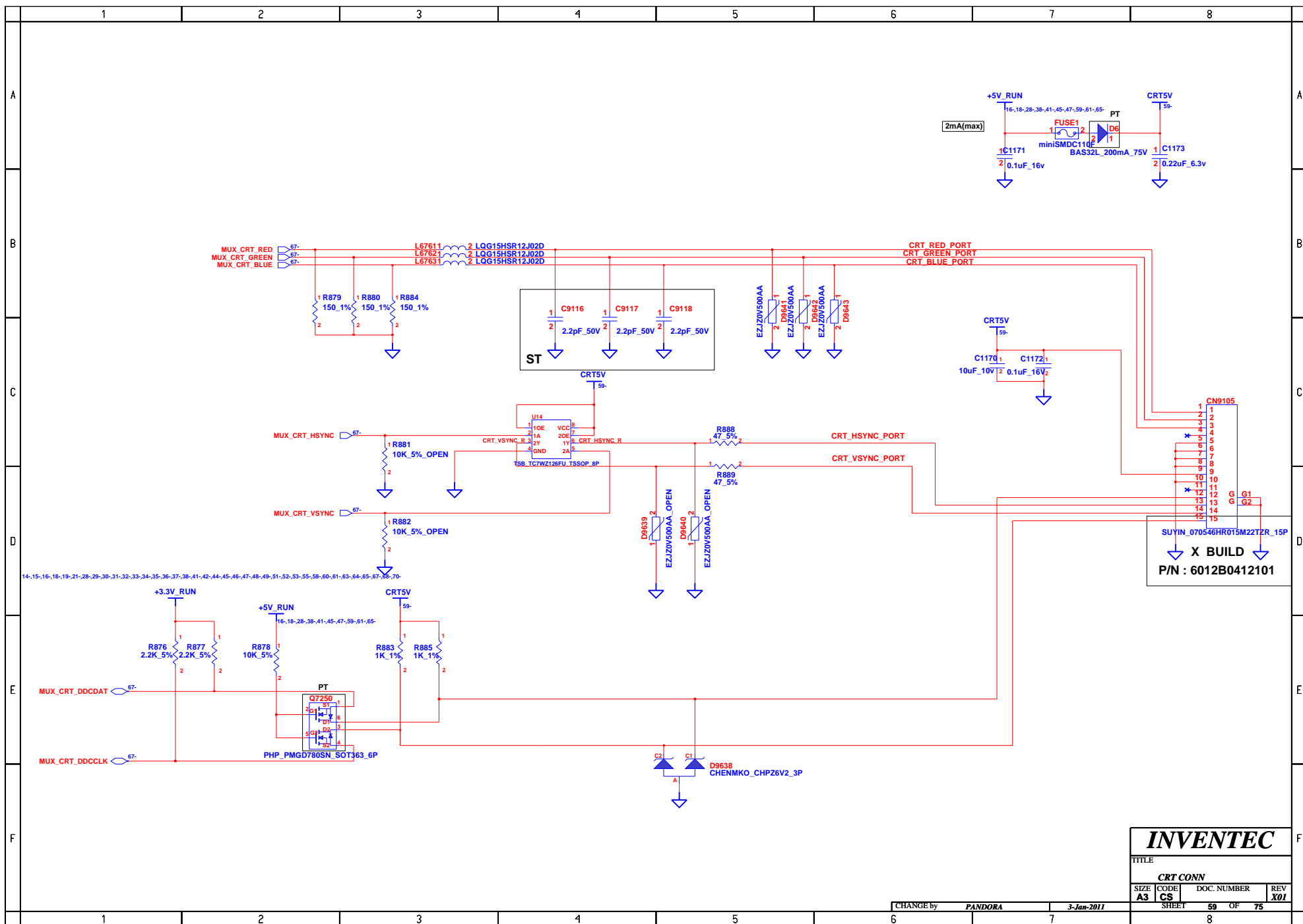


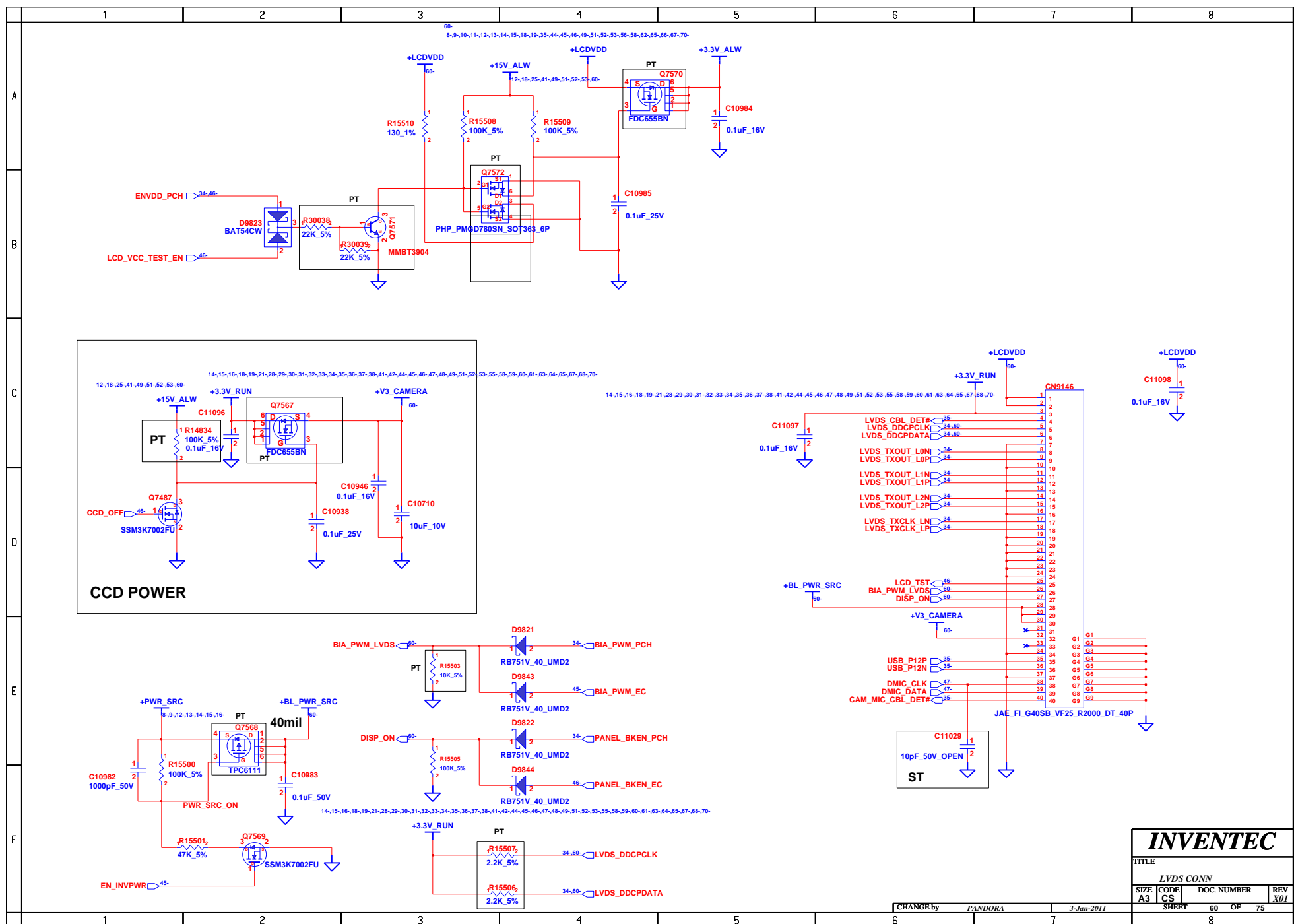


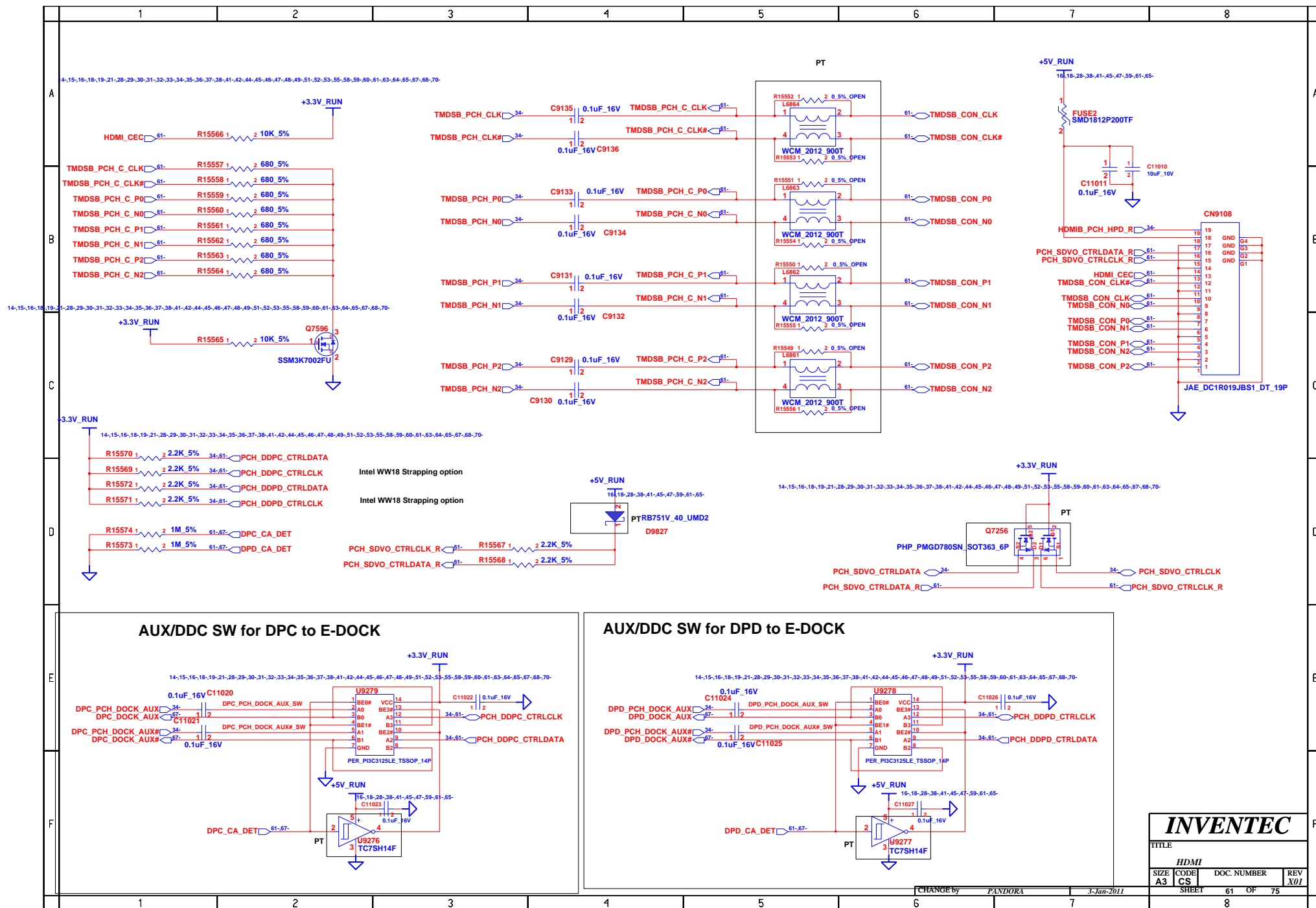


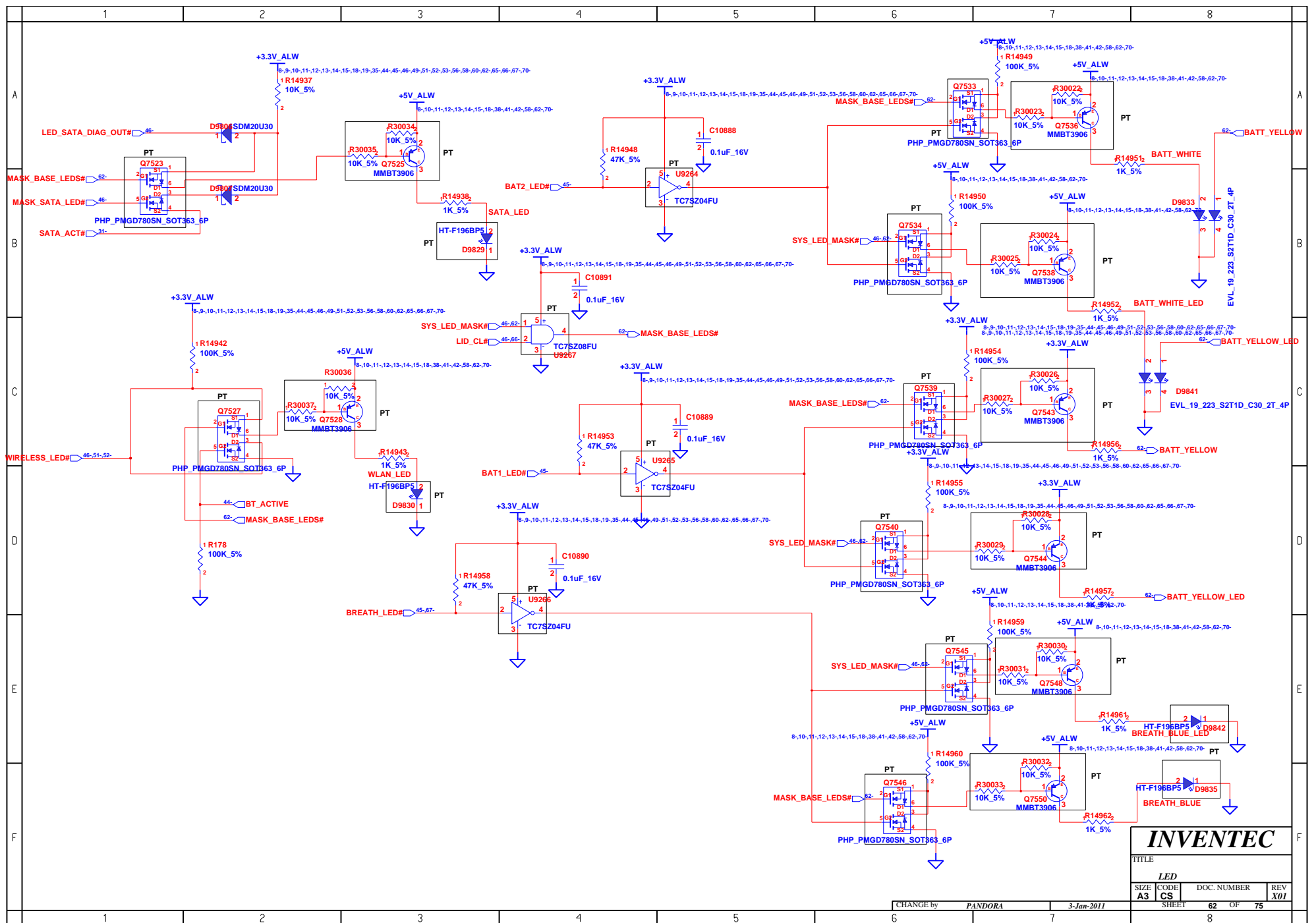




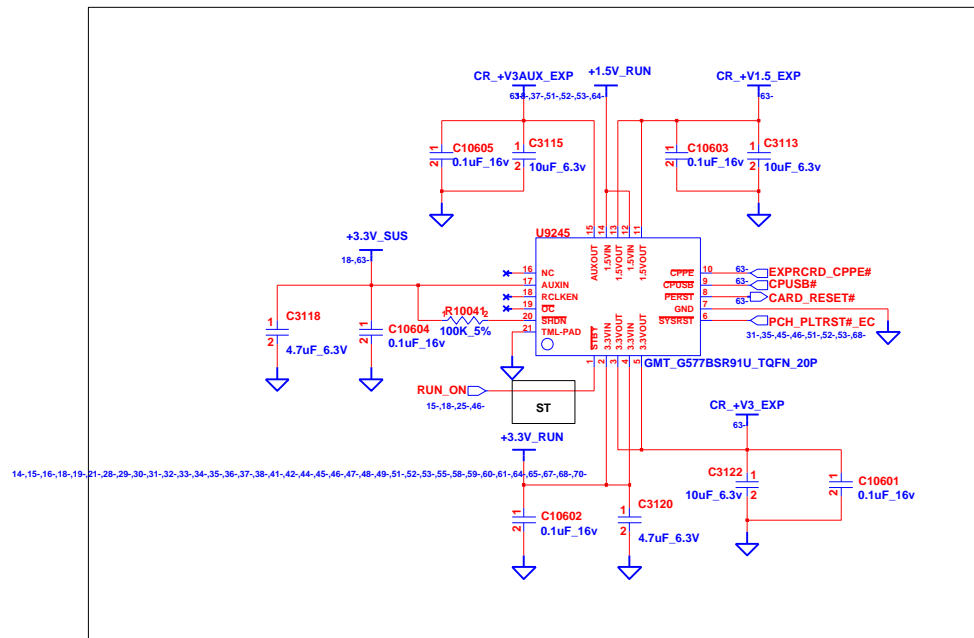
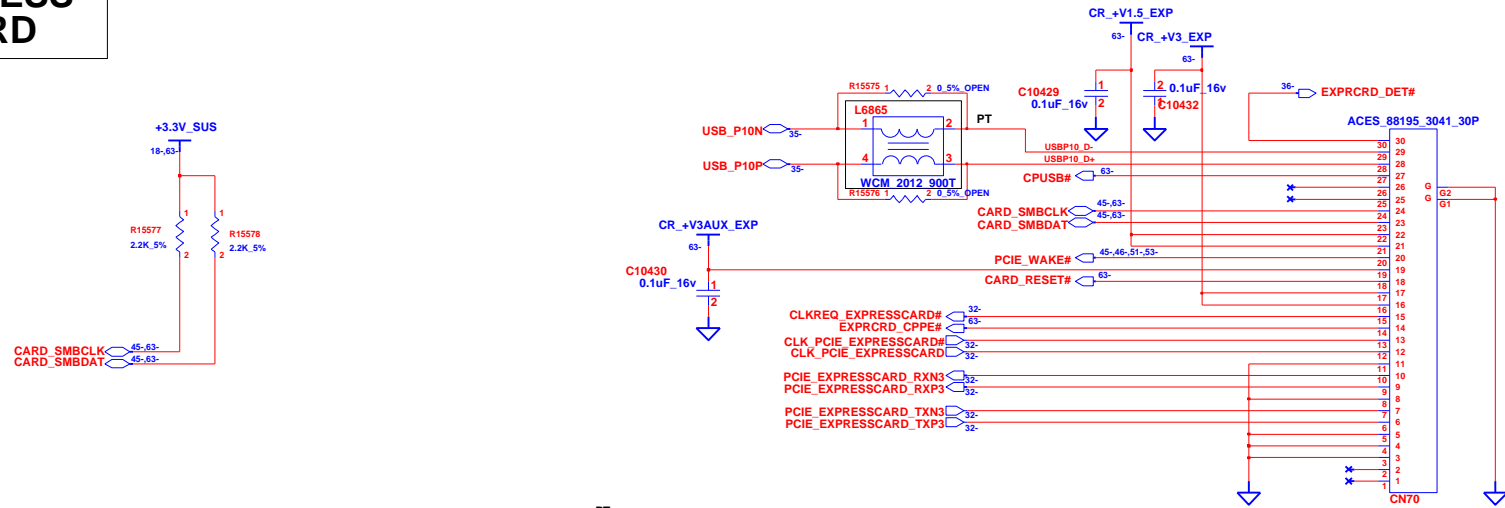








# EXPRESS CARD

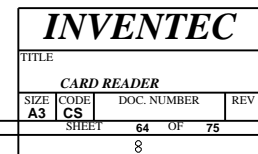


**INVENTEC**

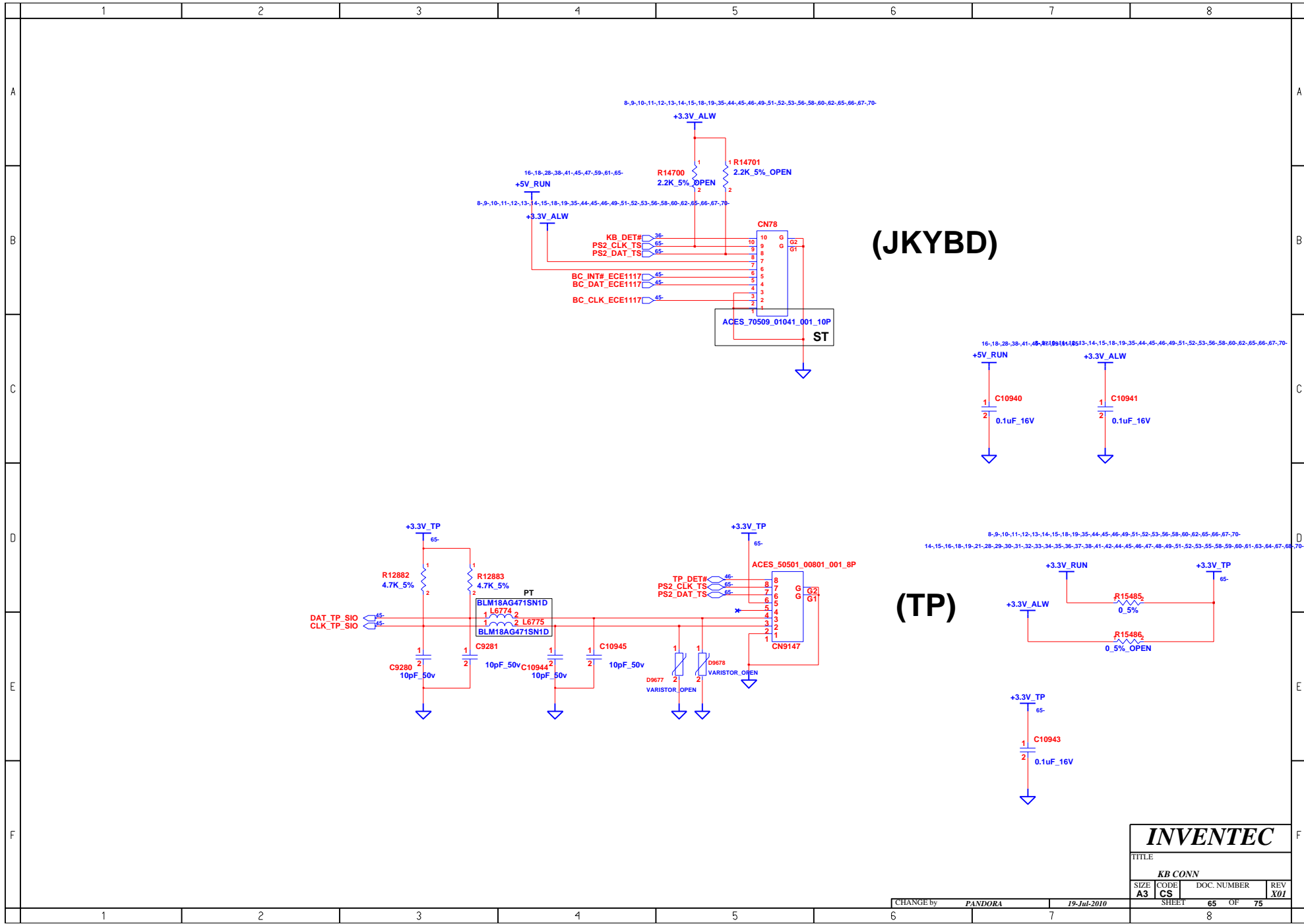
TITLE			
5138 CARD READER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01

CHANGE by PANDORA 19-Jul-2010

SHEET 63 OF 75







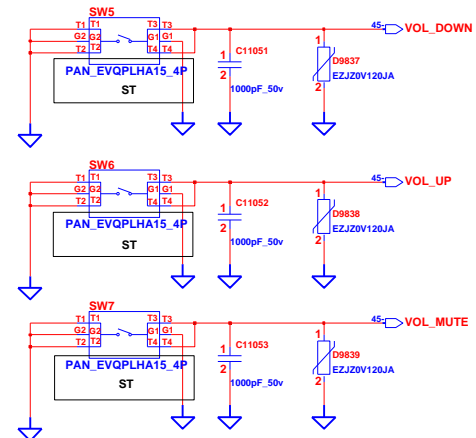
(JKYBD)

(TP)

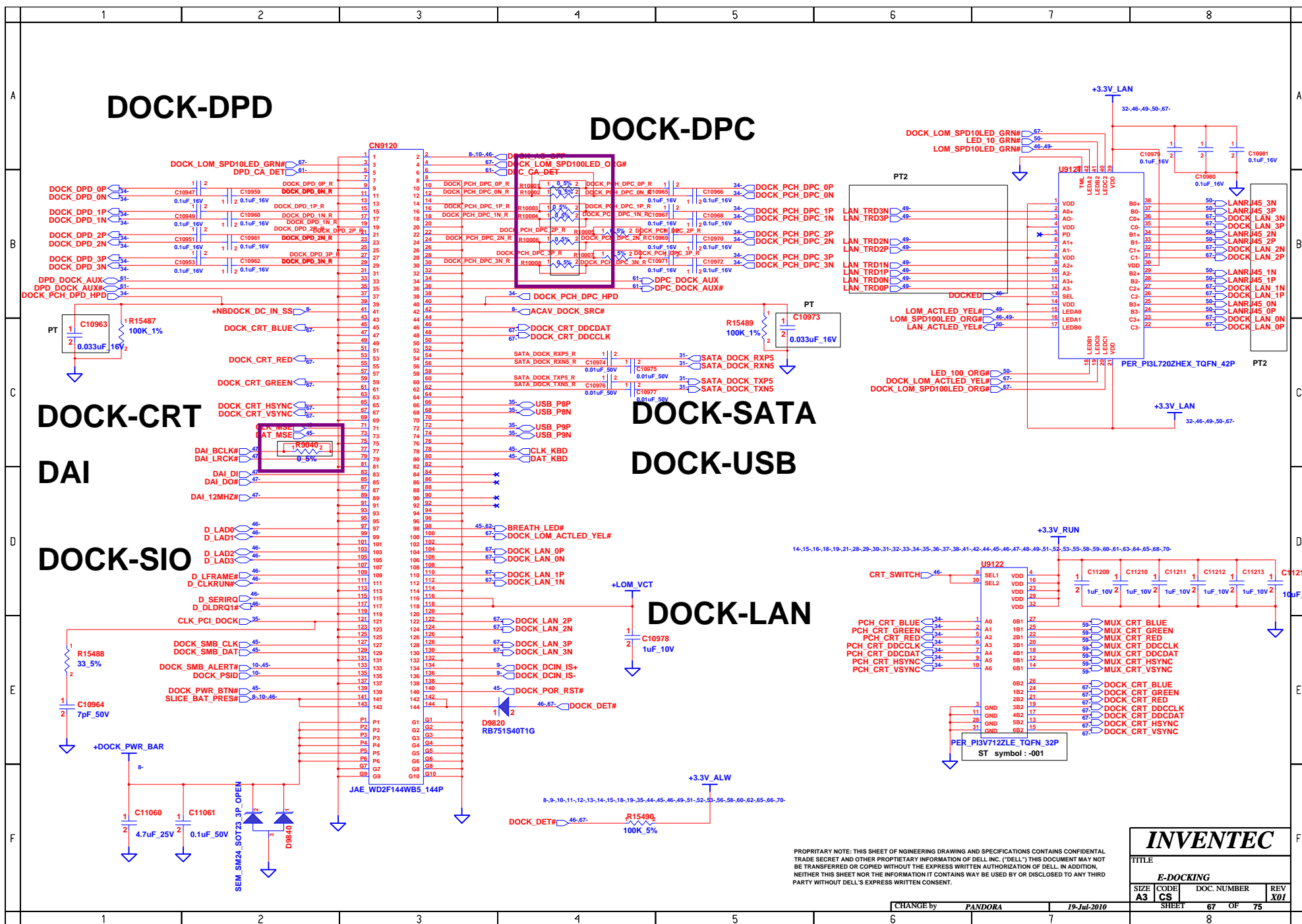
INVENTEC			
TITLE			
KB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		X01
SHEET		65	OF 75

CHANGE by PANDORA 19-Jul-2010

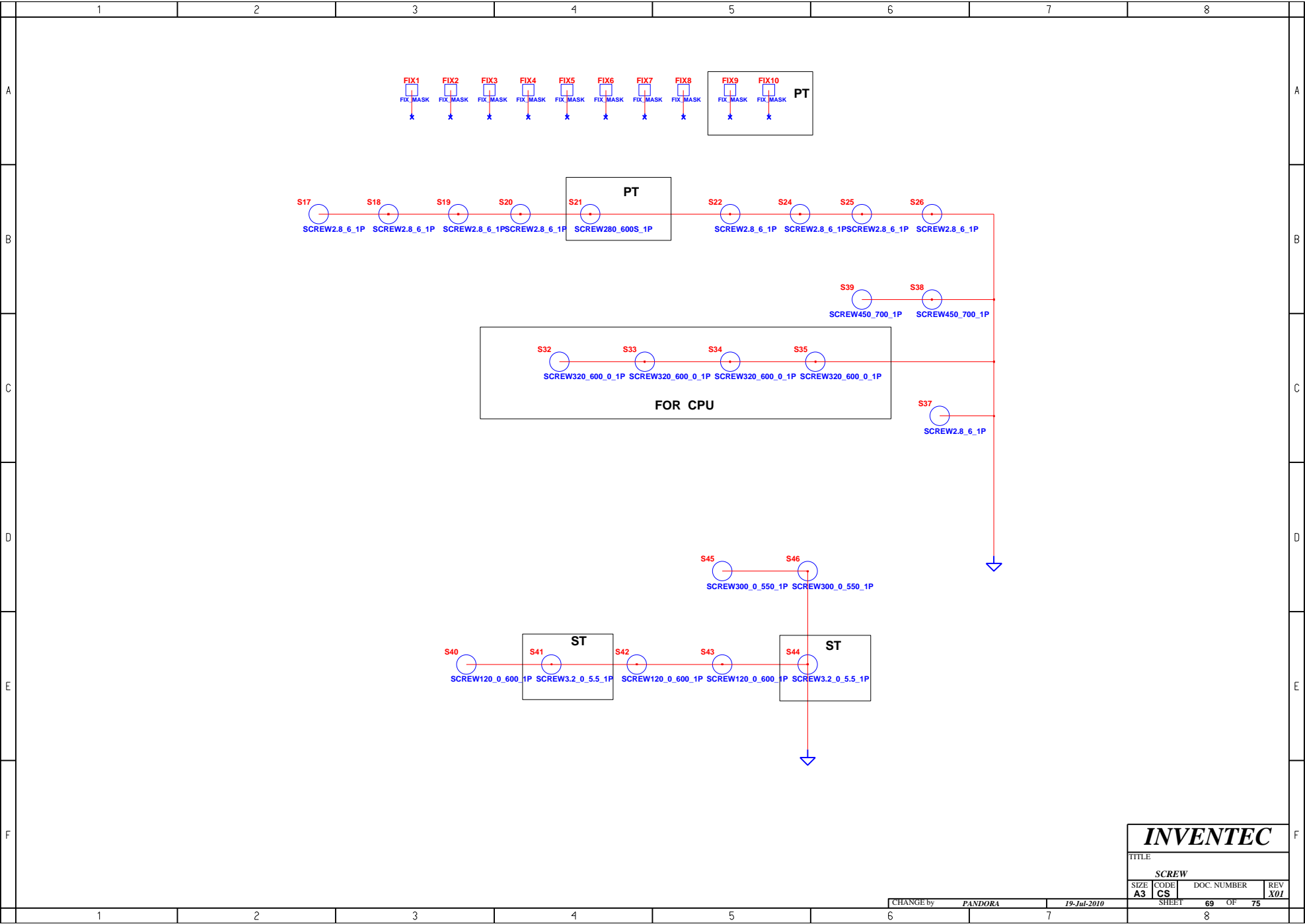
Pin 1 connection diagram for the ACES\_88266\_03001 module. The diagram shows a 3.3V\_ALW supply connected to pin 1 of the CN86 connector. Pin 1 is also connected to pins 8-9, 10-11, 12-13, 14-15, 16-18, 19-35, 44-45, 46-49, 51-52, 53-56, 58-60, 62-65, 66-67, and 70. The LID\_CLW signal is connected to pins 46 and 62. The module is labeled ACES\_88266\_03001 and has a 3P connector.

[illegible]

TITLE			
<i>POWER Button/RF Switch/HALL Sensor</i>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>		<b>X01</b>



[illegible]



**INVENTEC**

TITLE			
SCREW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	69 OF 75	X01

CHANGE by PANDORA 19-Jul-2010

SHEET 8



VIDA\_DB

ST BUILD

2010/12/29

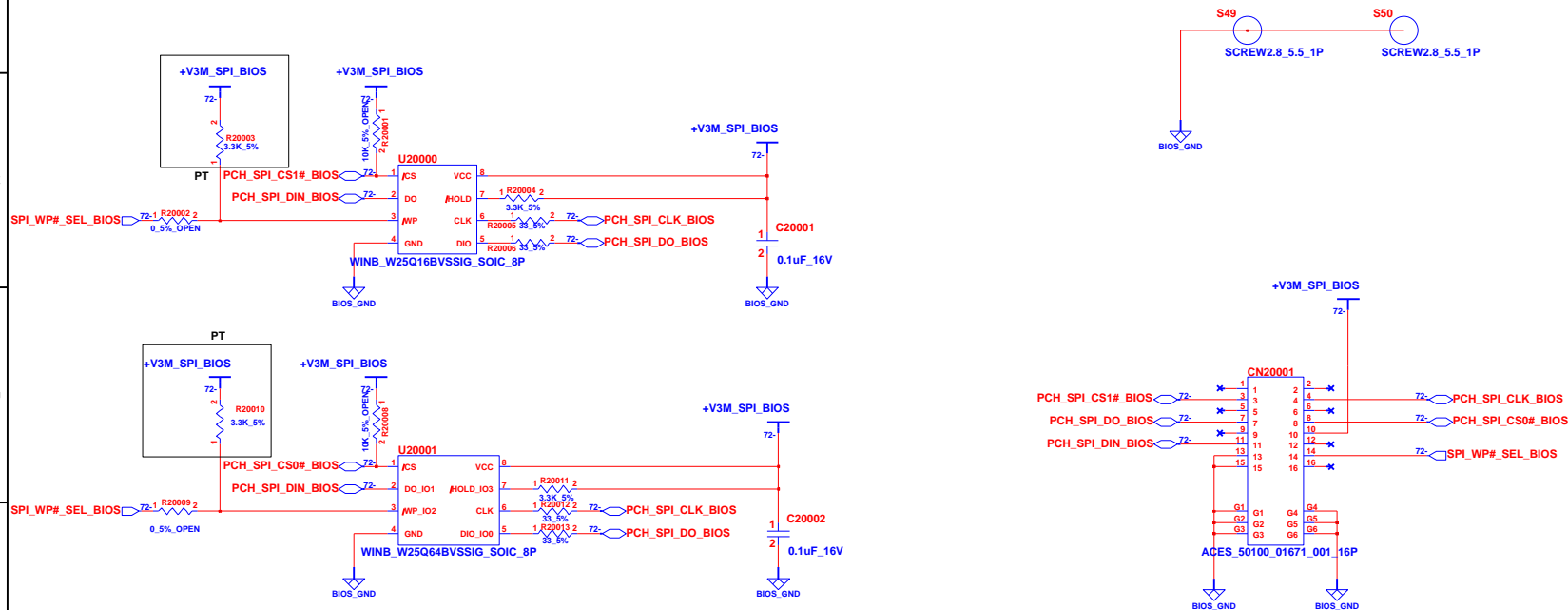
DELL CONFIDENTIAL/PROPRIETARY

PROPRITARY NOTE: THIS SHEET OF NGINEERING DRAWING AND SPECIFICATIONS CONTAINS CONFIDENTIAL  
TRADE SECRET AND OTHER PROPRIETARY INFORMATION OF DELL INC. ("DELL") THIS DOCUMENT MAY NOT  
BE TRANSFERRED OR COPIED WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF DELL. IN ADDITION,  
NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS WAY BE USED BY OR DISCLOSED TO ANY THIRD  
PARTY WITHOUT DELL'S EXPRESS WRITTEN CONSENT.

INVENTEC			
TITLE VIDA			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	SHEET 71 OF 75	

CHANGE by VIDA 29-Dec-2010

# BIOS BOARD



**INVENTEC**

TITLE  
**VIDA**

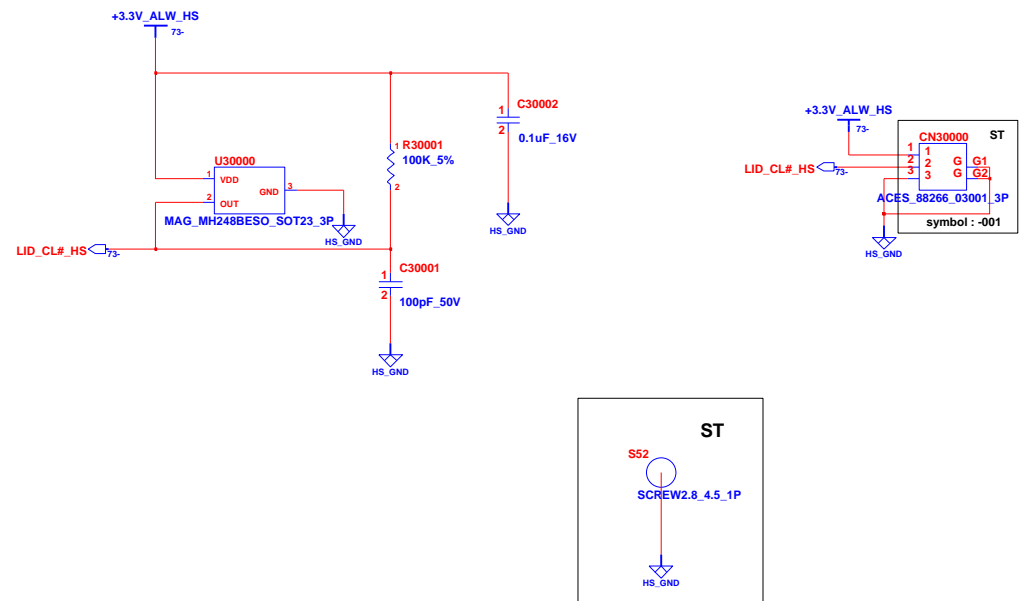
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>72</b>	REV <b>75</b>
-------------------	-------------------	--------------------------	------------------

CHANGE by **VIDA** 11-Sep-2010

SHEET 72 OF 75



# HALLSENSOR BOARD



**INVENTEC**

TITLE **VIDA**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	73 OF 75	

CHANGE by **VIDA** 4-Jan-2011

SHEET

8

WLAN SW BOARD

PT

CN40000

1 1  
2 2  
3 3  
4 4  
5 5  
6 6

RF\_PH  
WIRELESS\_ON/OFF\_SW  
AGES\_88706\_0601\_6P

SW\_GND

ST

SW40002  
DIP\_LSS22N\_V\_T-R\_6P

RF\_PH  
WIRELESS\_ON/OFF\_SW  
SW\_GND

INVENTEC

TITLE VIDA

SIZE	CODE	DOC. NUMBER	REV
A3	CS	74 OF 75	

CHANGE by VIDA 3-Jan-2011

SHEET 8 OF 75

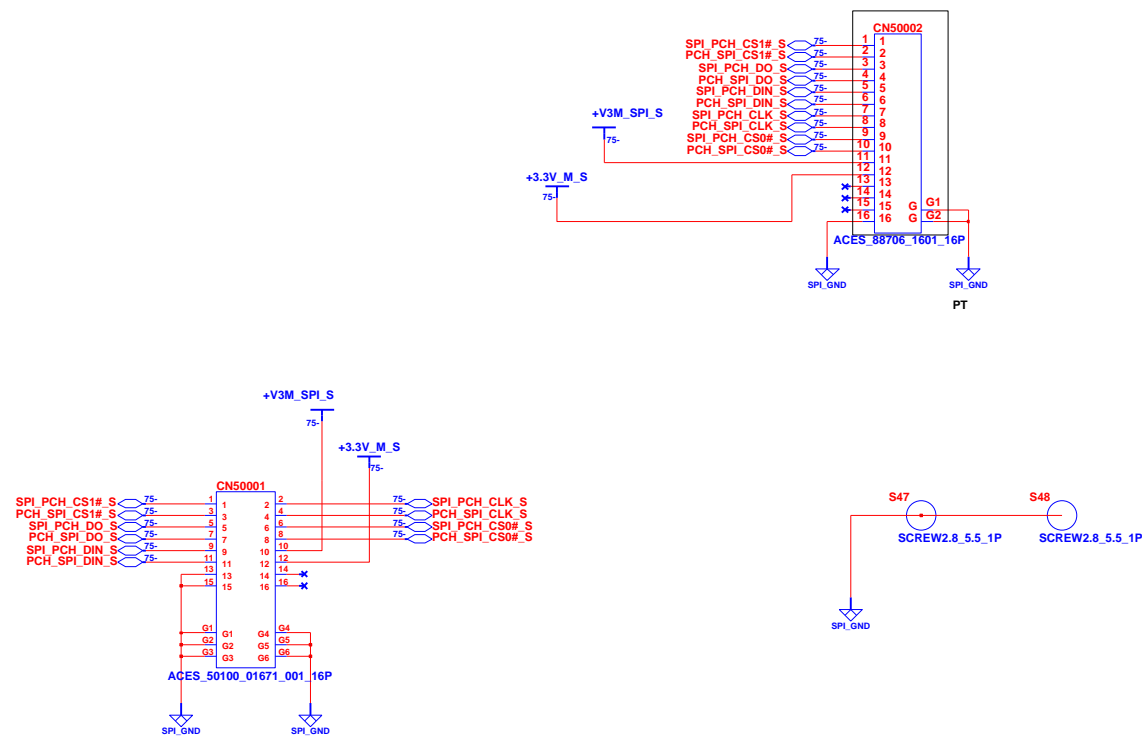
TITLE	<b><i>VIDA</i></b>
-------	--------------------

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
-------------------	-------------------	-------------	-----

SHEET 74 OF 75

CHANGE by	VIDA	3-Jan-2011
-----------	------	------------

# SPI BOARD



**INVENTEC**

TITLE <b>VIDA SPI BOARD</b>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		75	OF 75

CHANGE by **VIDA** 16-Aug-2010