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B									B
C									C
D									D
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ST145a - UMA

AMD PLATFORM

DB Build

2009/07/23

DATE	CHANGE NO.	REV
1	2	

DRAWER	EE	DATE	POWER	DATE	INVENTEC
DESIGN					
CHECK					
RESPONSIBLE					
SIZE = 3					TITLE
FILE NAME : XXXX-XXXXXX-XX					ST145a - DIS
P/N XXXXXXXXXXXX					Project Name
SIZE	A3	CODE	CS	DOC. NUMBER	REV
SHEET 1 OF 53					X01

12.1.1.1

12.1.1.2

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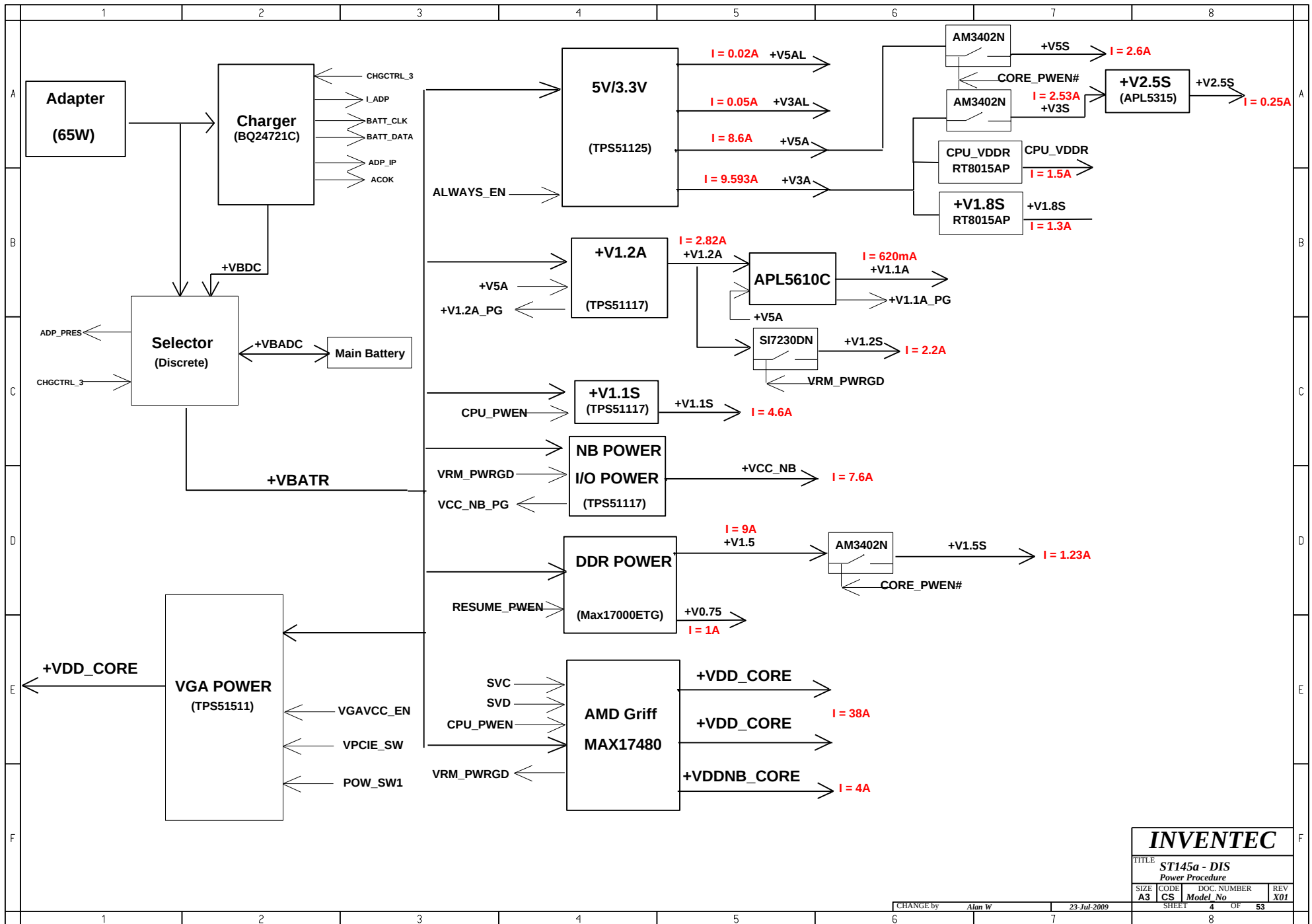
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12.1.1.2

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<i>ST145a - DIS</i> <i>Block Diagram</i>			
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A3	CS	<i>Model No</i>	<i>X01</i>
SHEET		3	OF 53

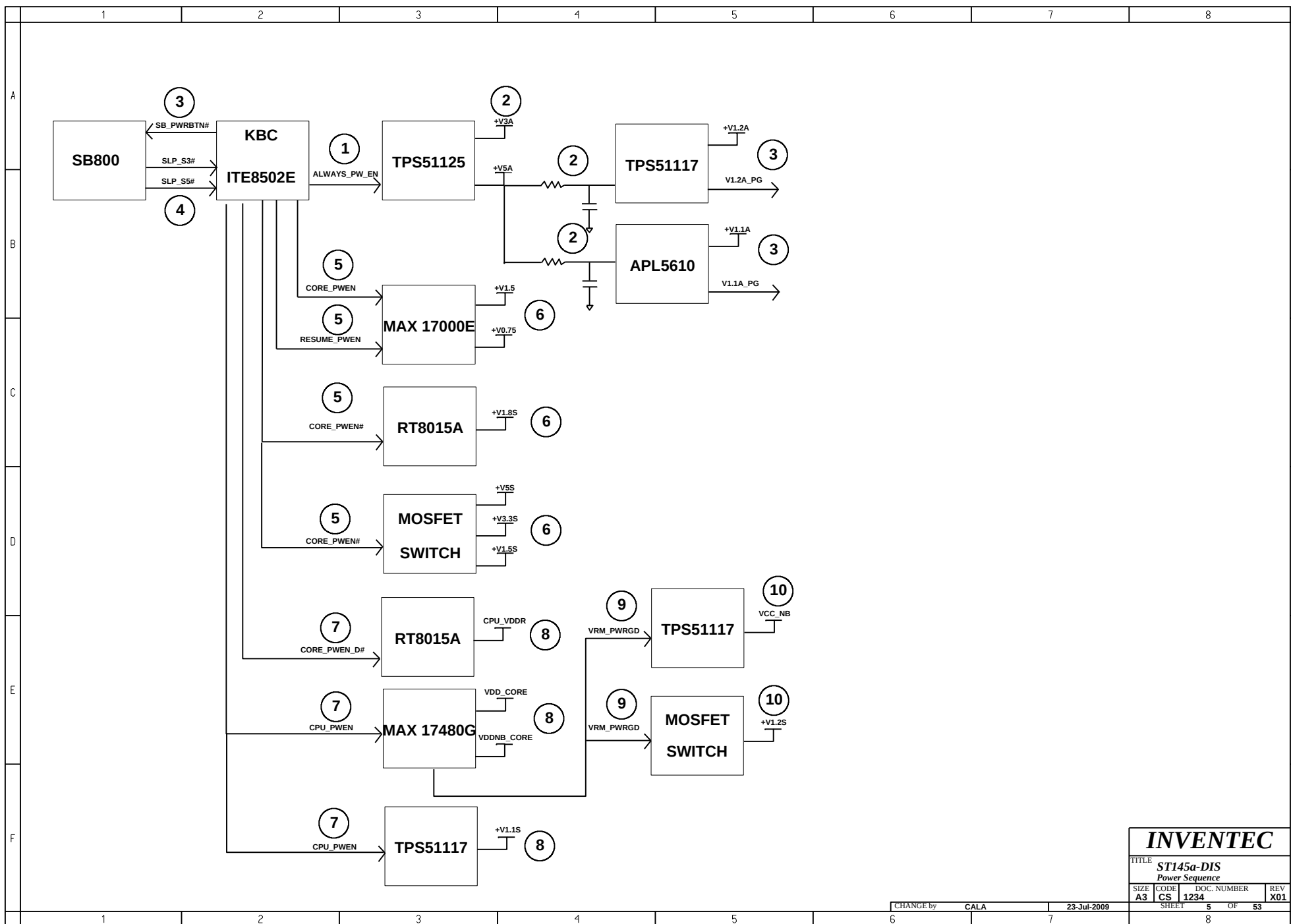
CHANGE by	Alan W	23-Jul-2009
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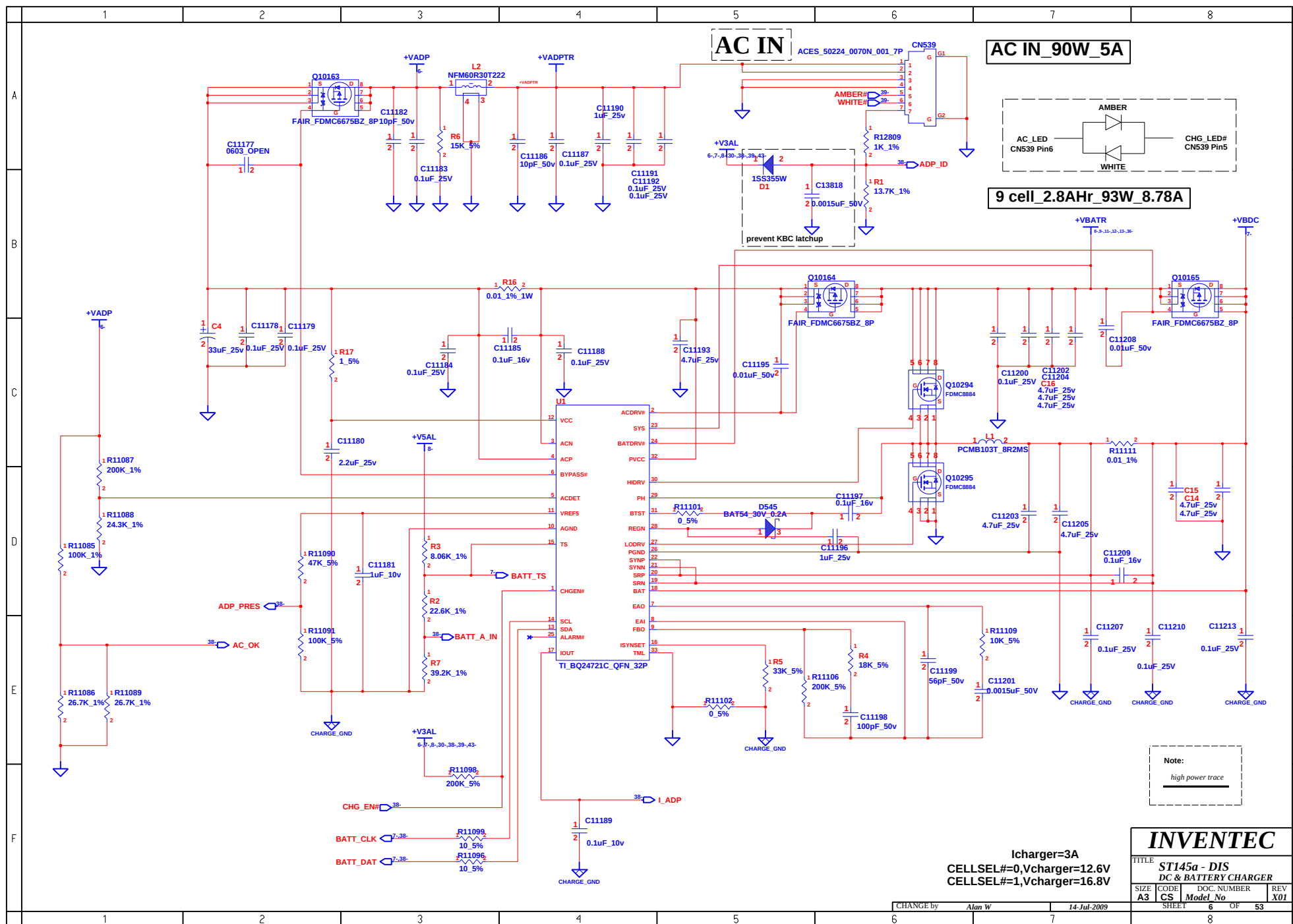


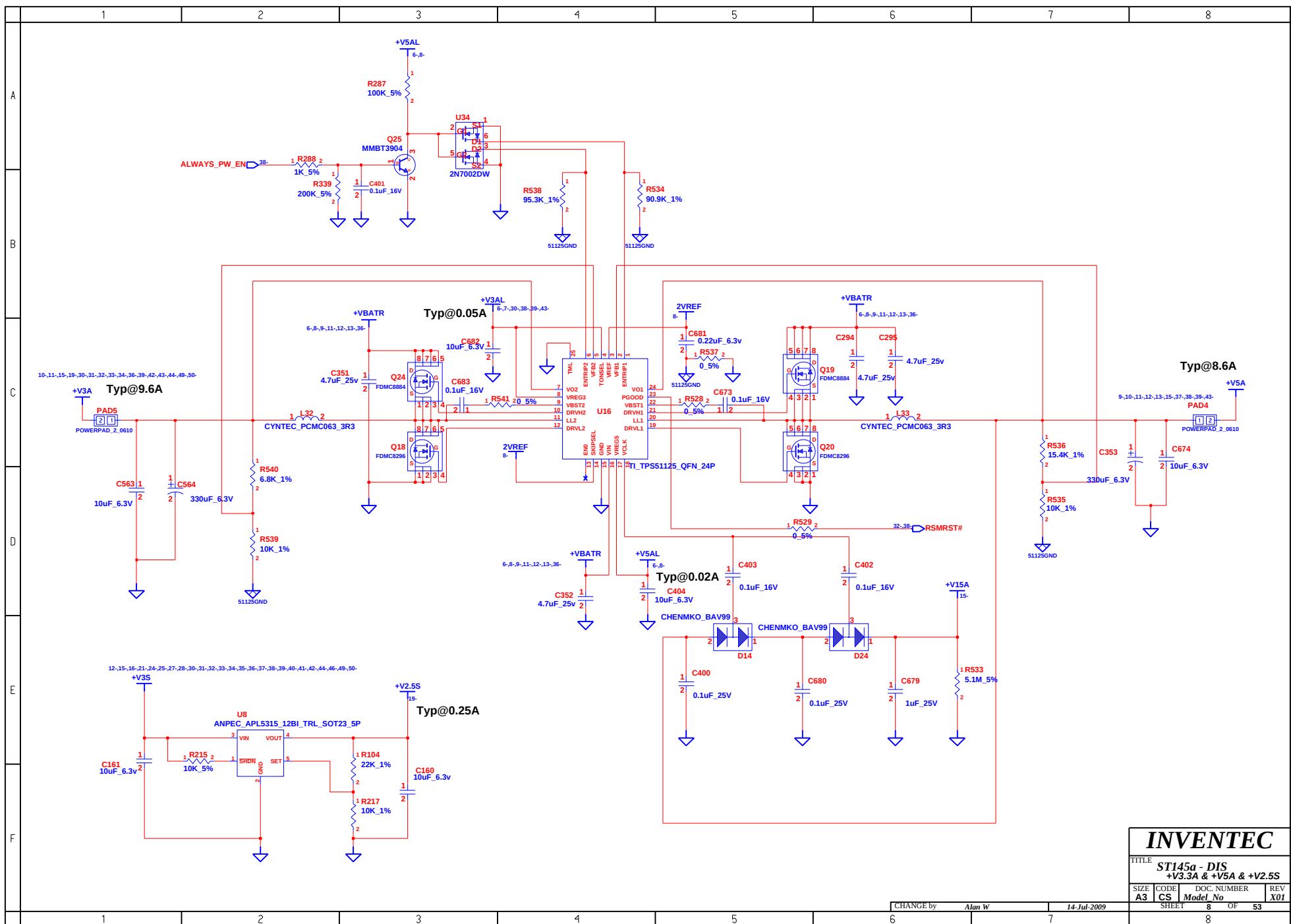
INVENTEC

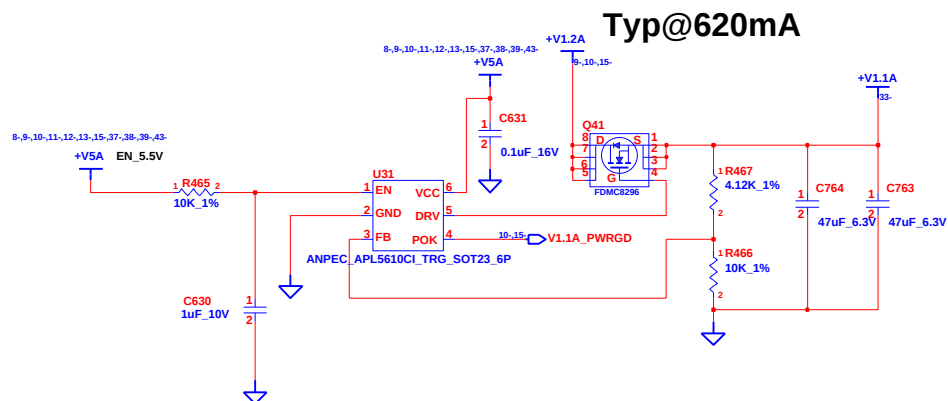
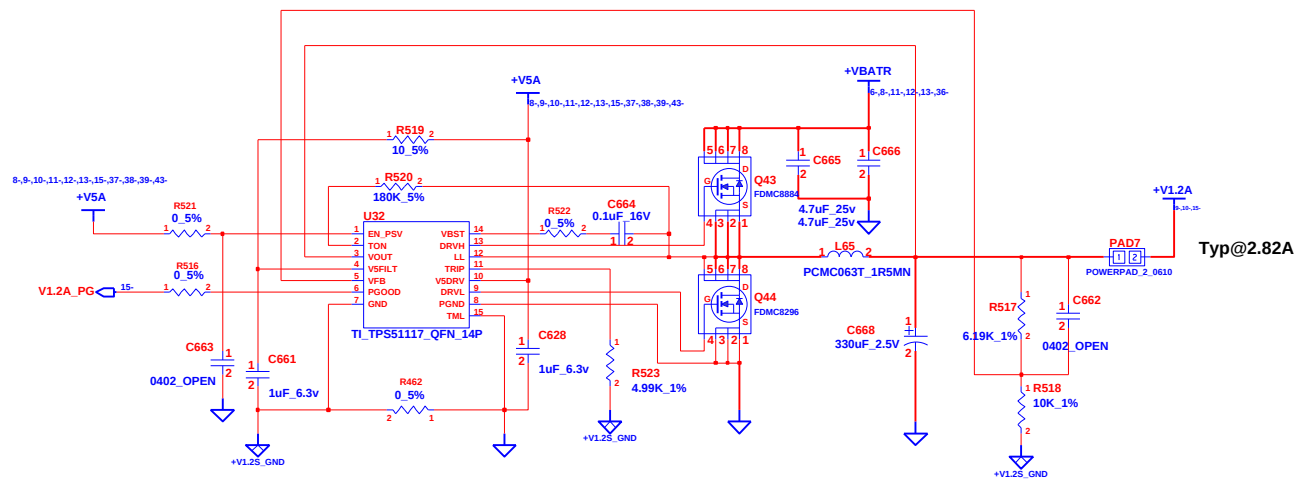
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ST145a - DIS			
Power Procedure			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		4	OF 53

CHANGE by Alan W 23-Jul-2009









INVENTEC

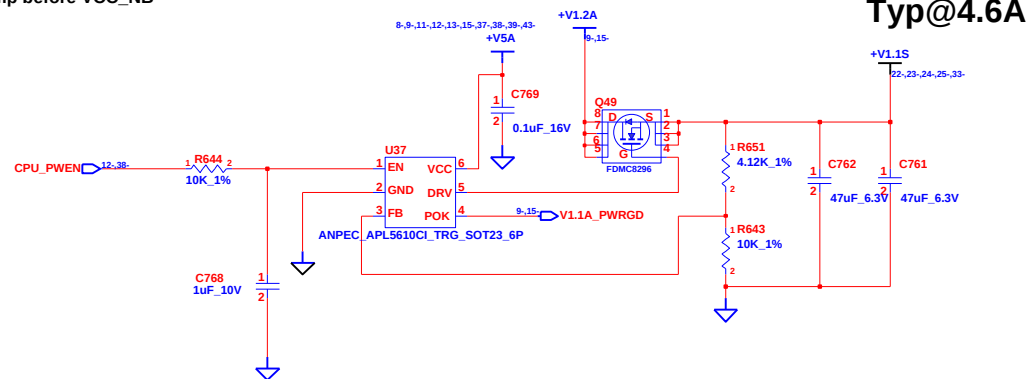
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ST145a - DIS
+V1.2A & VCC_NB

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model_No	X01

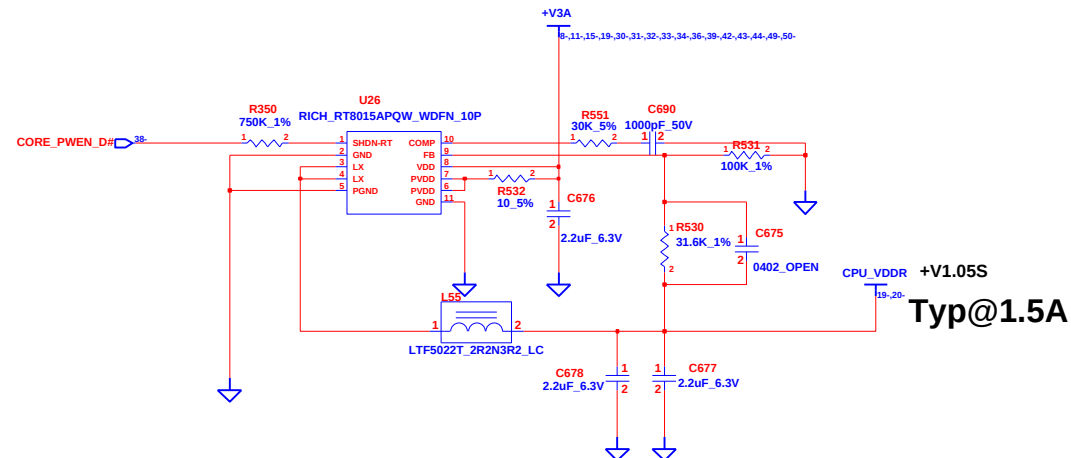
CHANGE by Alan W 14-Jul-2009

SHEET 9 OF 53

1. +V1.8S ramp before +V1.1S
2. +V3.3S ramp before +V1.1S
3. +V1.1S ramp before VCC_NB



Typ@4.6A

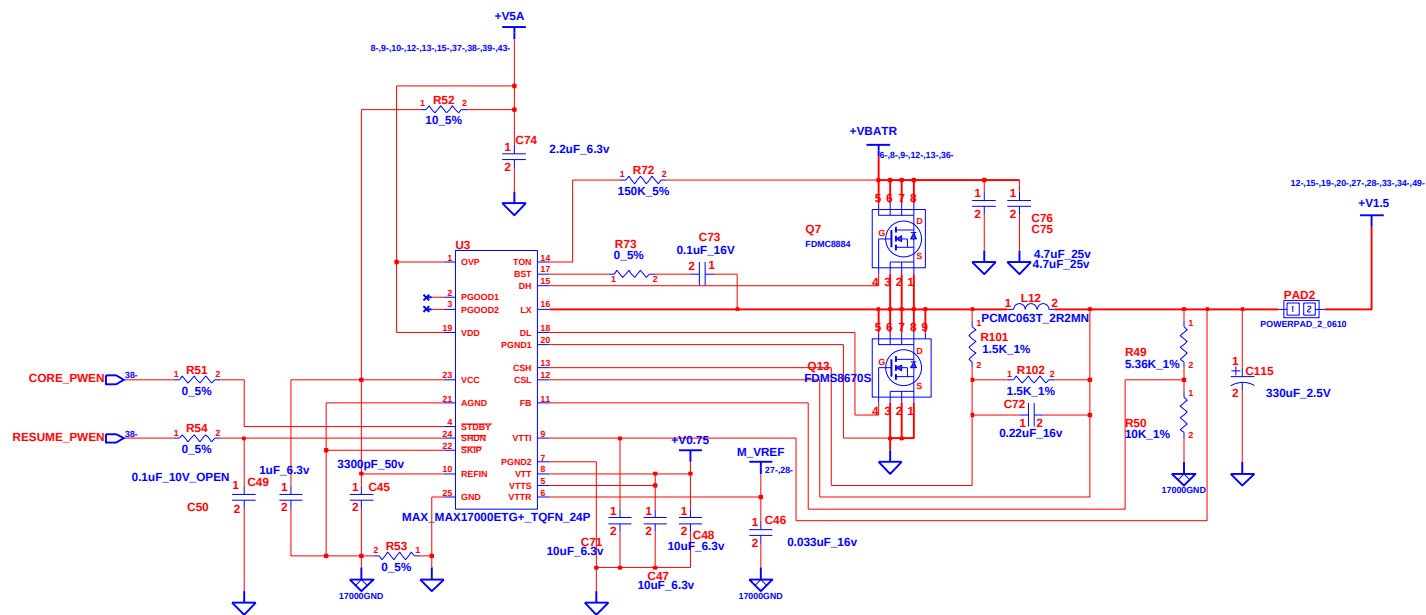


Typ@1.5A

INVENTEC

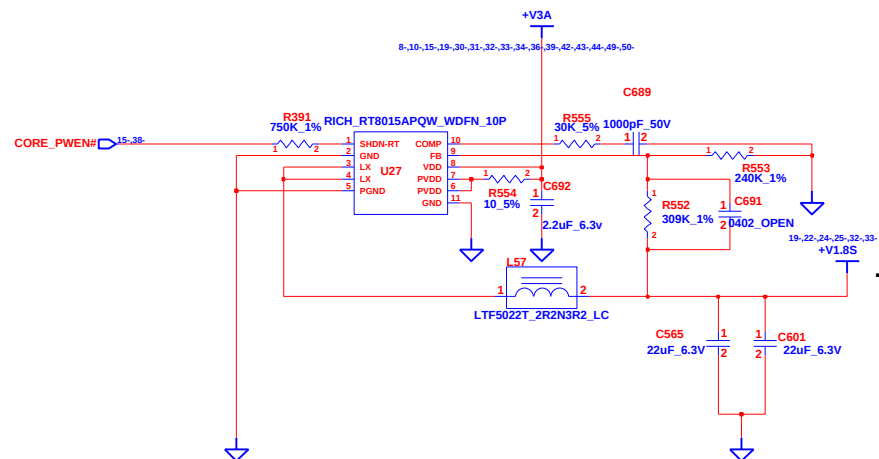
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ST145a - DIS			
CPU_VDDR & +V1.1A & +V1.1S			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		OF	REV
10		53	

CHANGE by Alan W 14-Jul-2009



Typ@9A

NOTE: DDR3 REGULATOR



Typ@1.3A

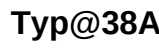
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ST145a - DIS
DDR3 POWER

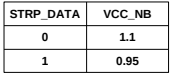
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A3	CS	Model No	X01

CHANGE by Alan W 14-Jul-2009

SHEET 11 OF 53

F

CHANGE by	Alan W	14-Jul-2009
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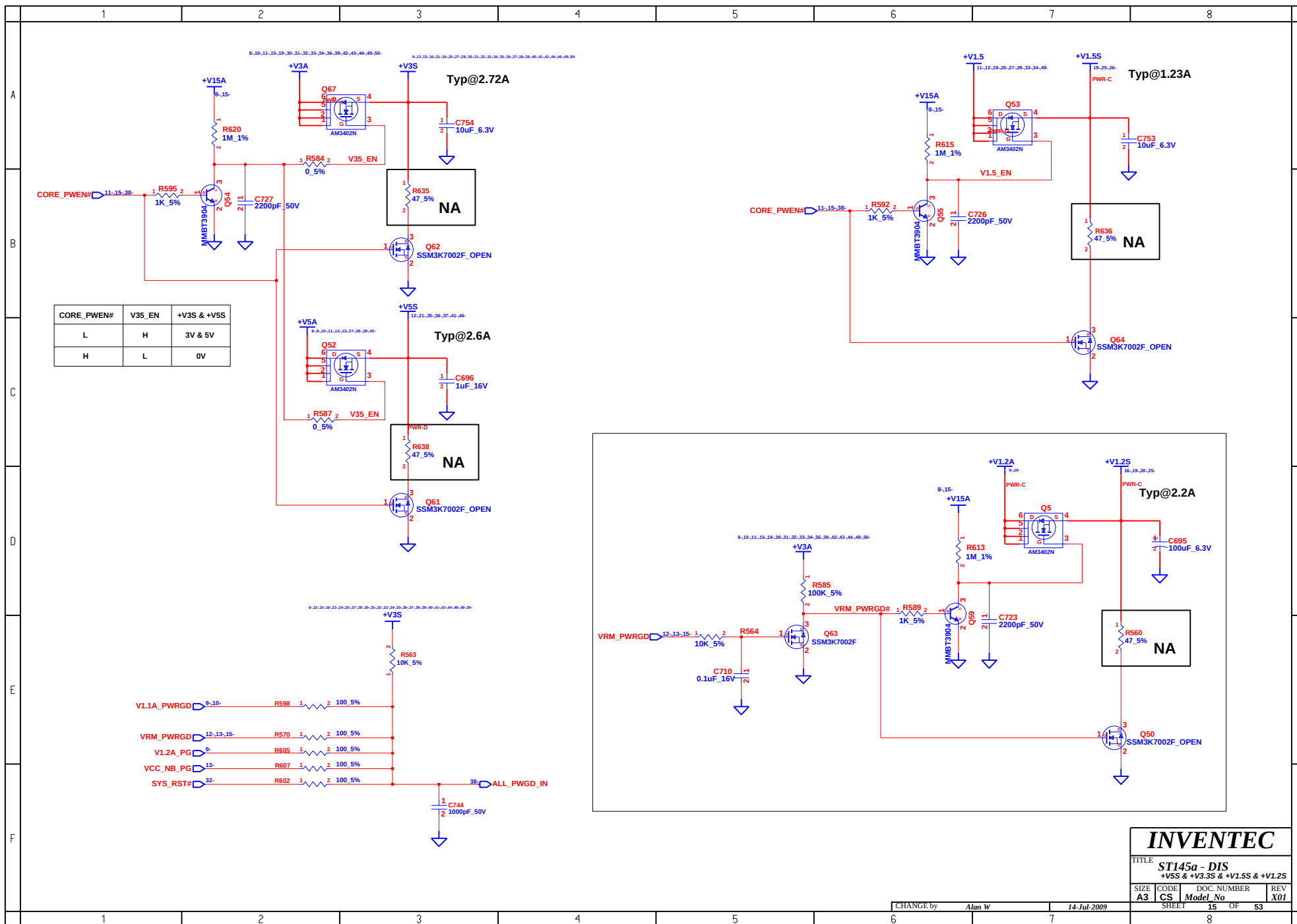


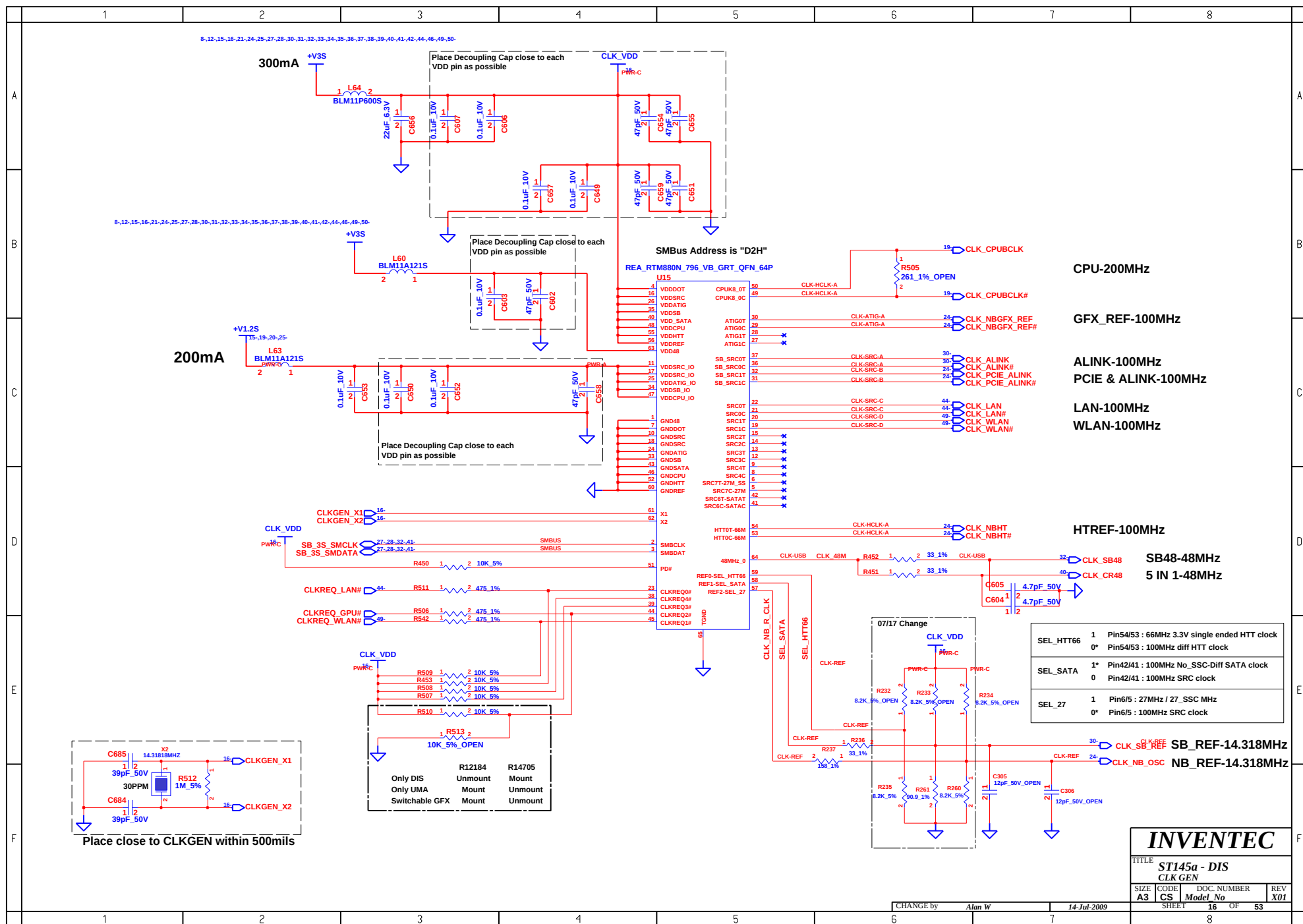
CHANGE by	Alan W	15-Jul-2009
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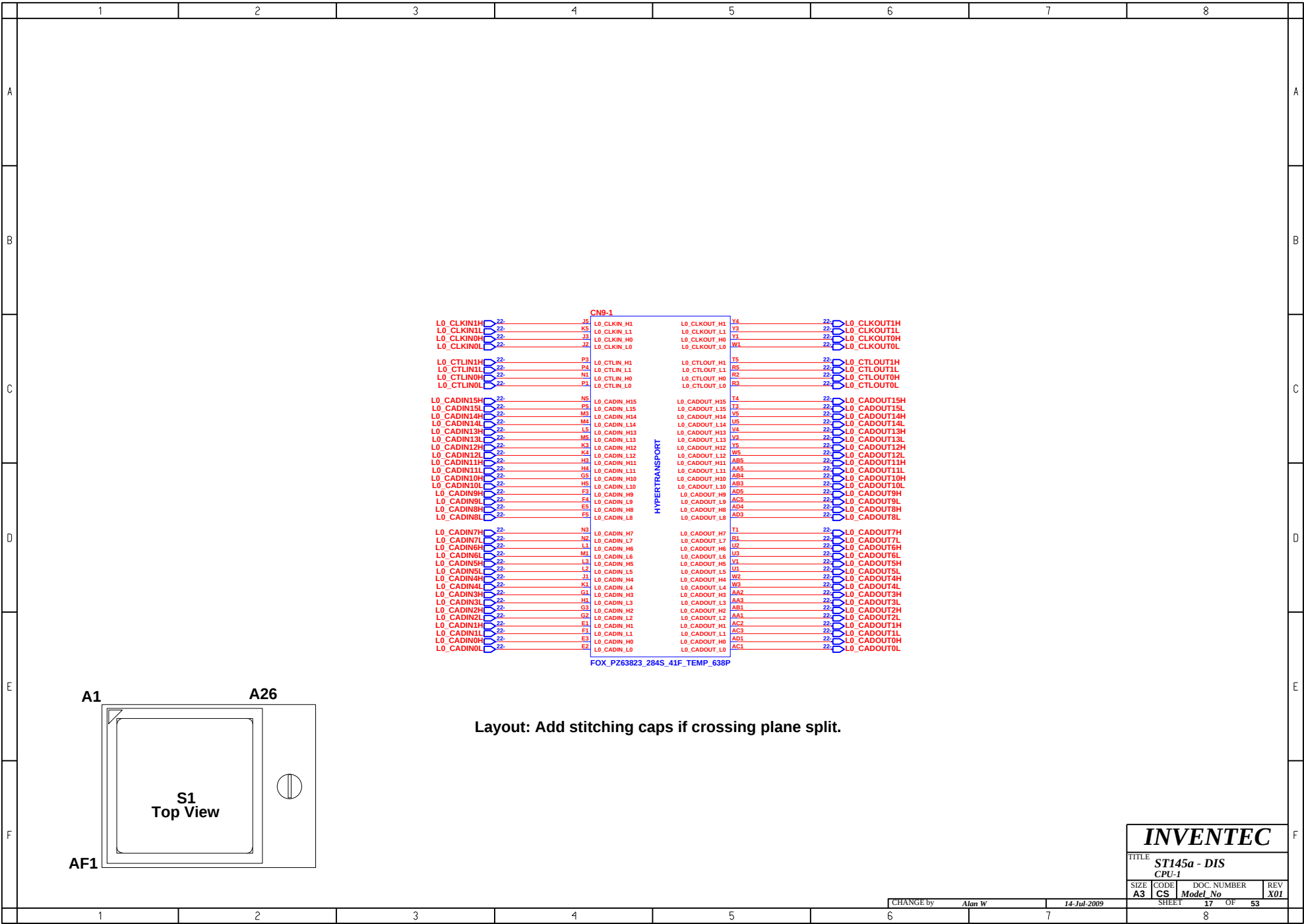
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A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE ST145a - DIS +VDD_CORE & +VPCIE			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
SHEET		14	OF 53

CHANGE by *Alan W* 23-Jul-2009





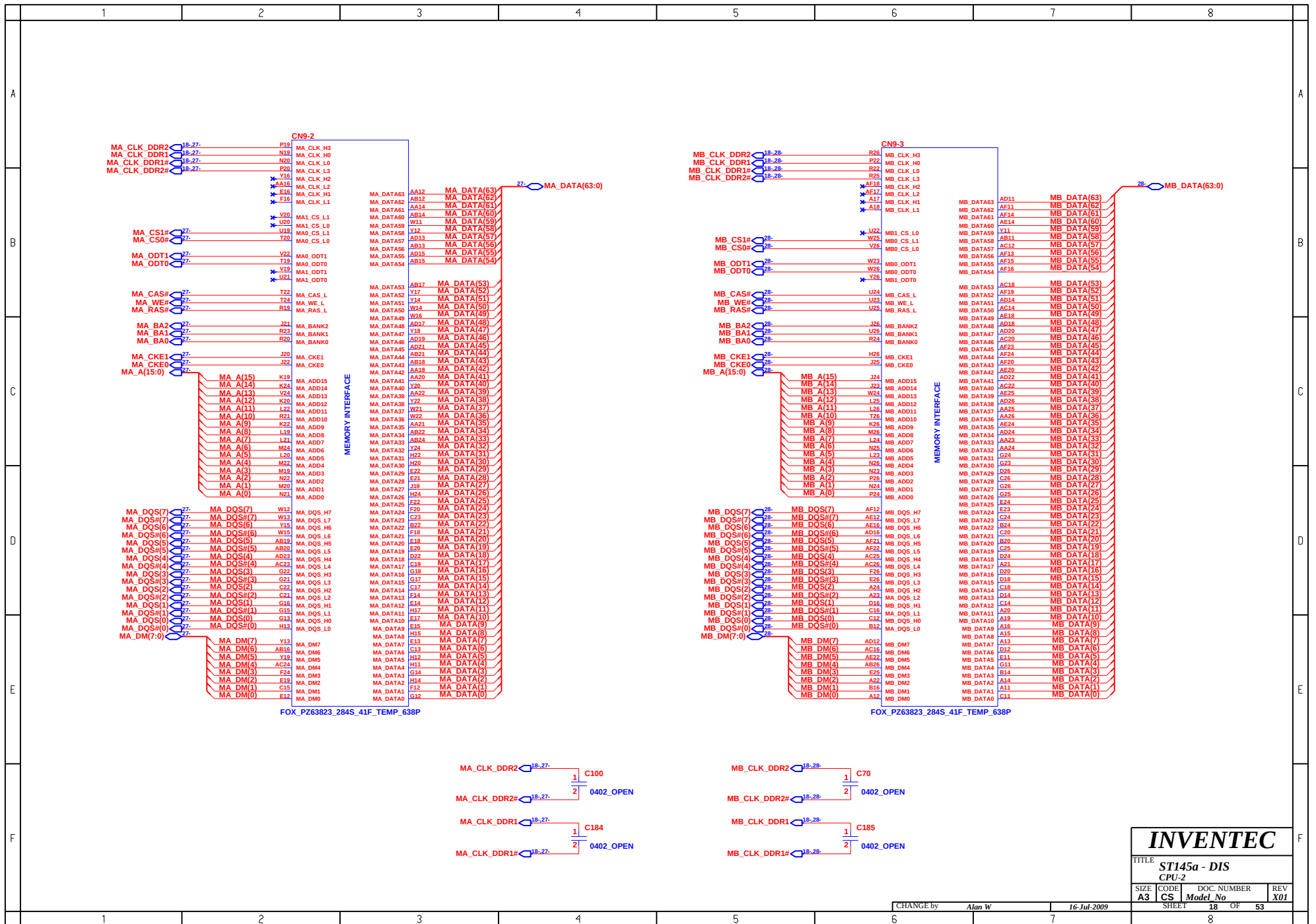


INVENTEC

TITLE
ST145a - DIS
CPU-1
SIZE CODE DOC. NUMBER REV
A3 CS Model No 17 OF 53 X01

CHANGE by Alan W 14-Jul-2009

8

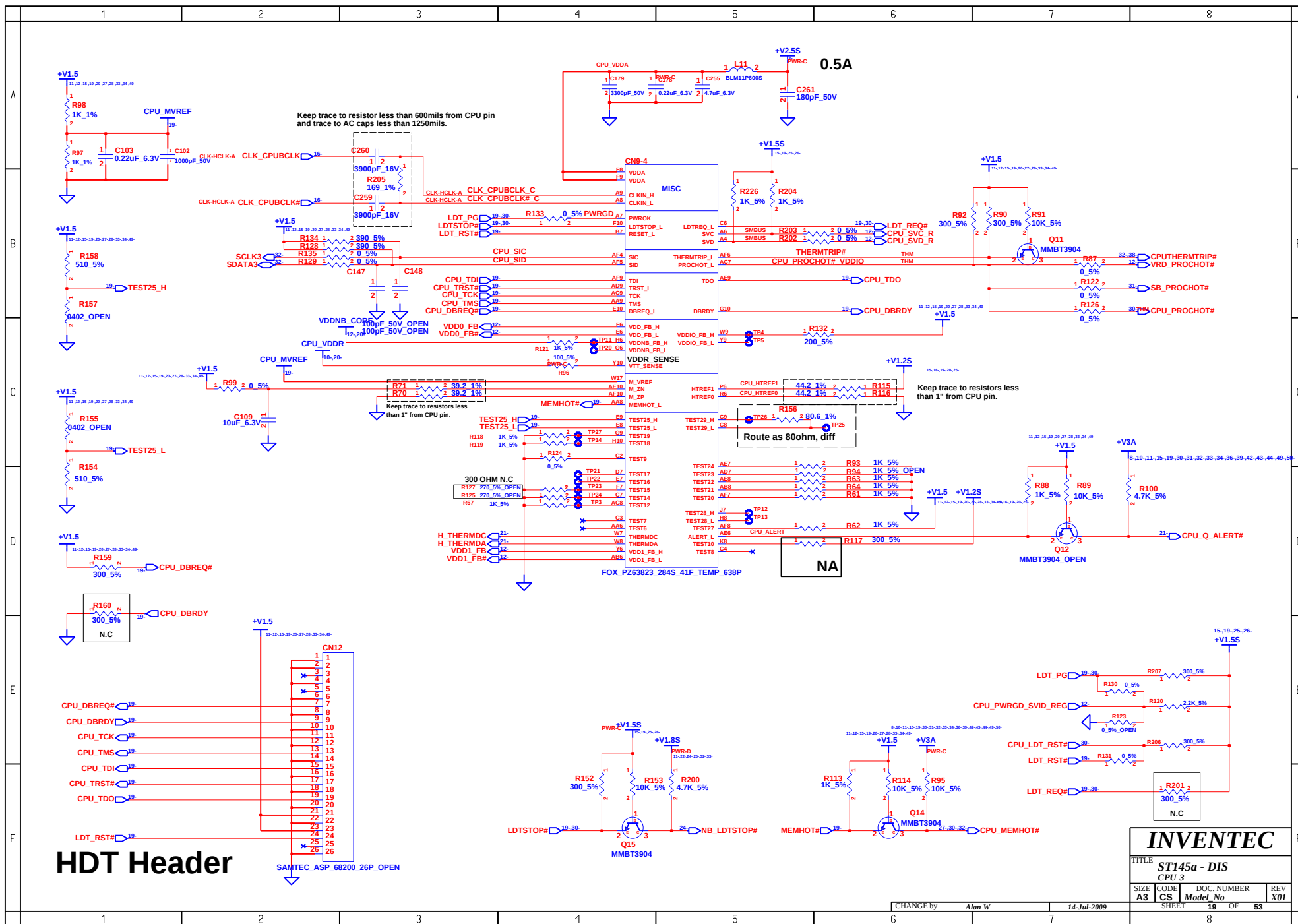


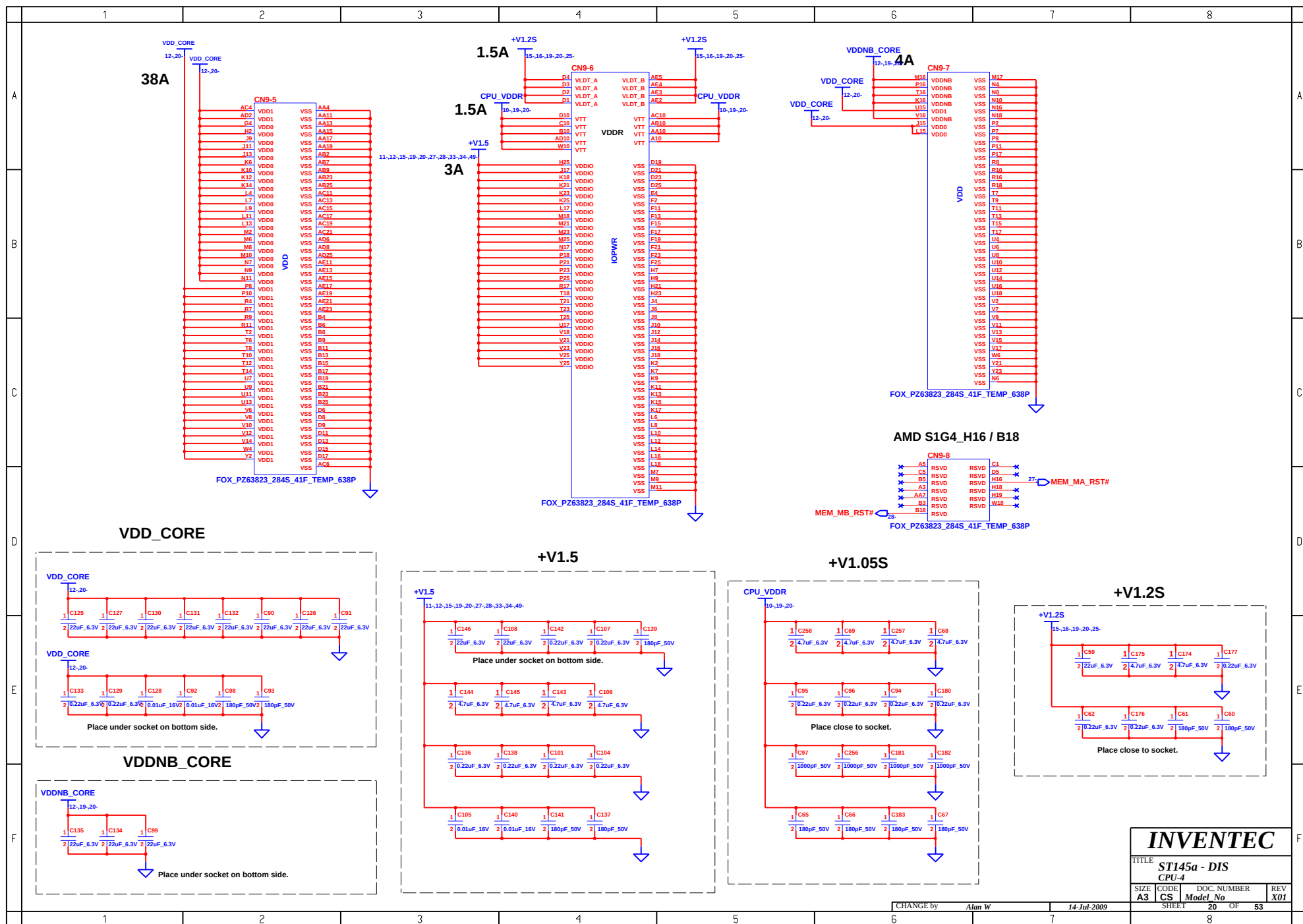
INVENTEC

TITLE
ST145a - DIS
CPU-2

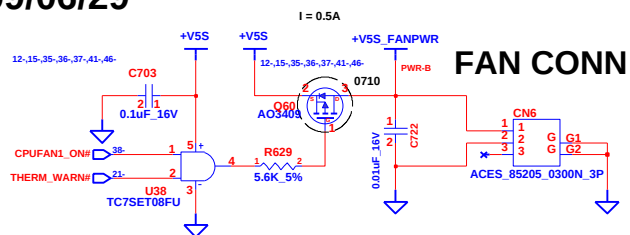
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		18	OF 53

CHANGE by Alan W 16-Jul-2009

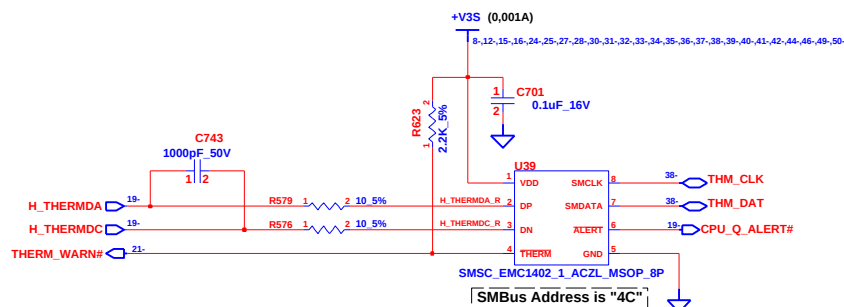




Circuit : Fixed 2009/06/29



From NB

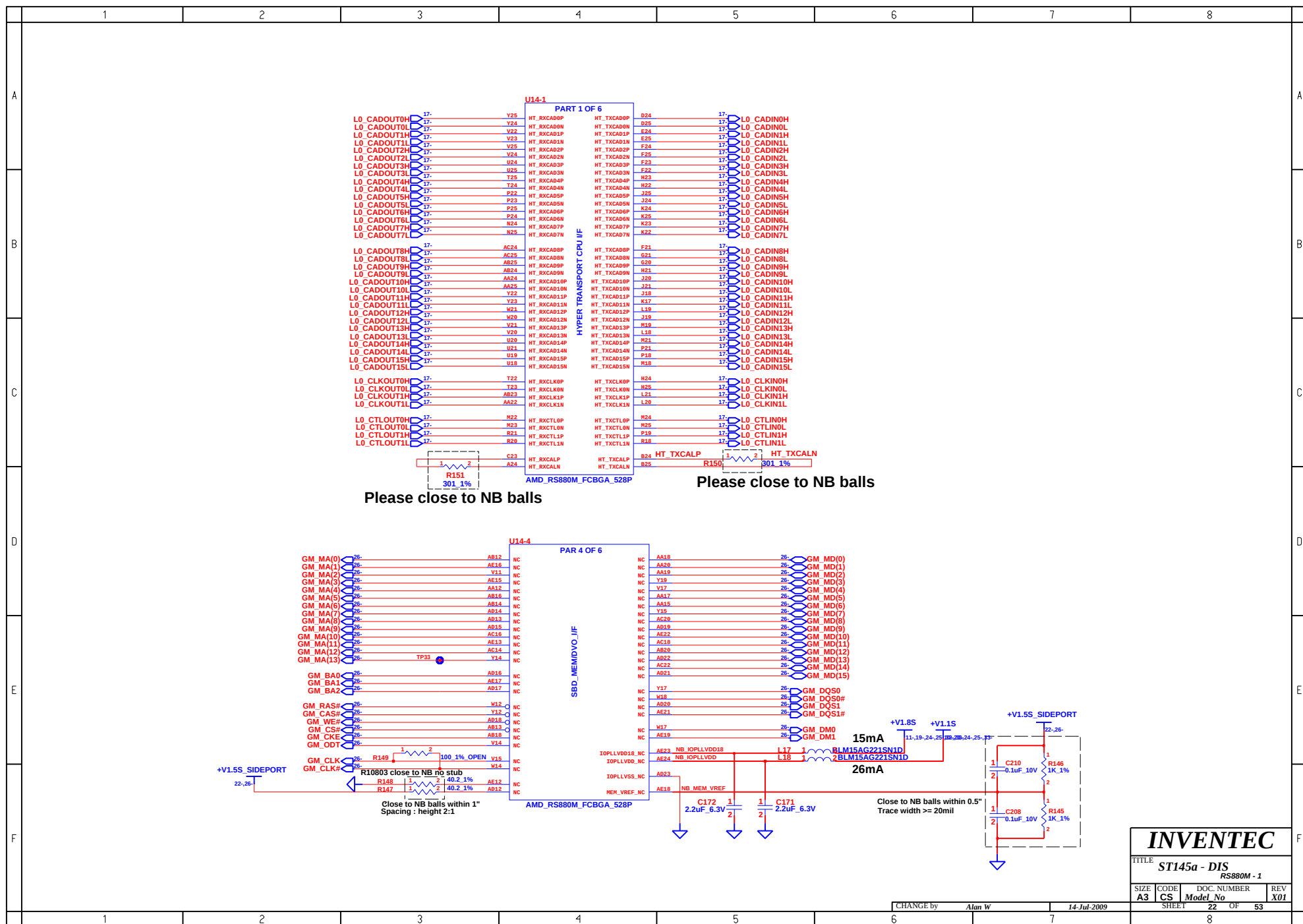


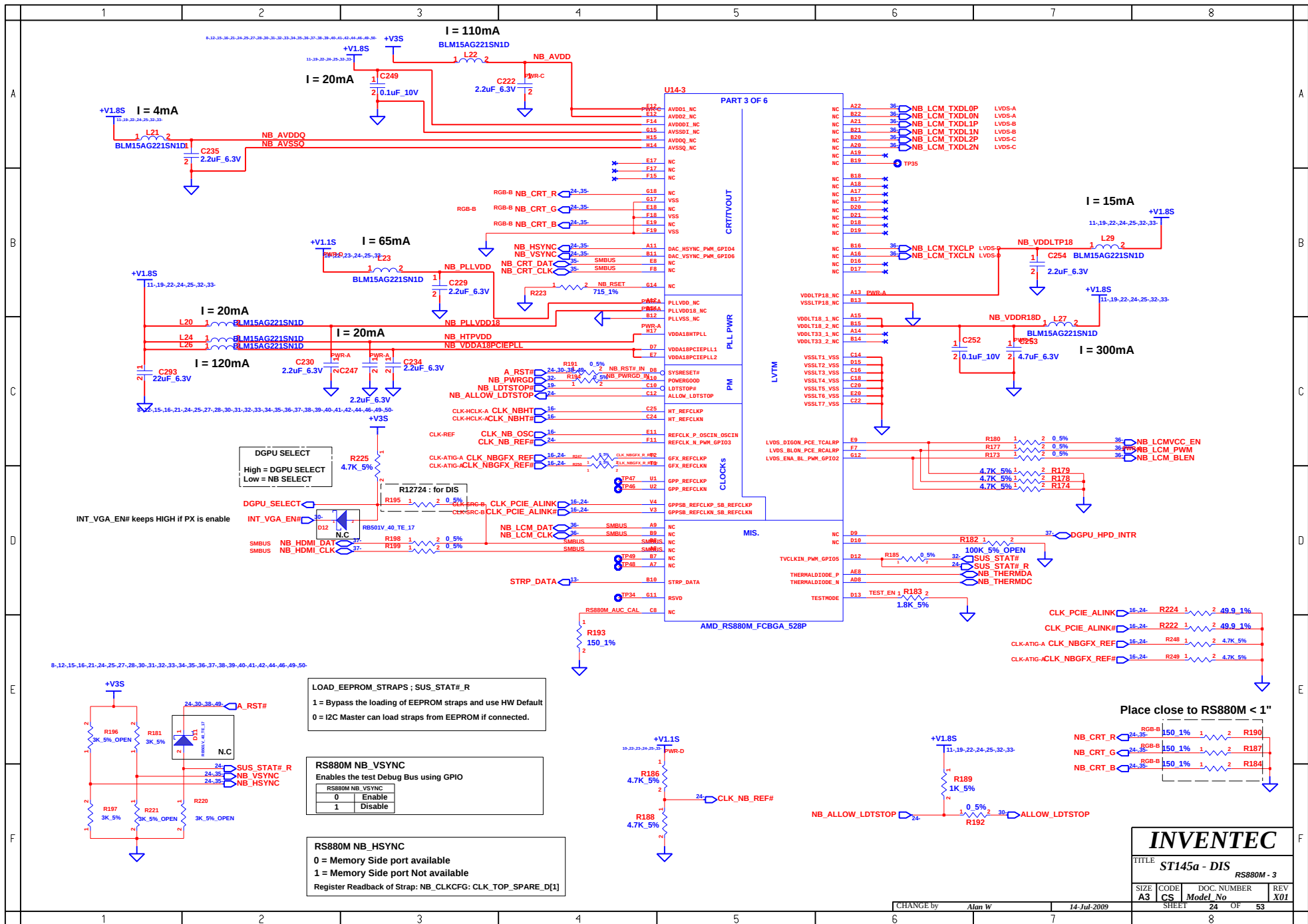
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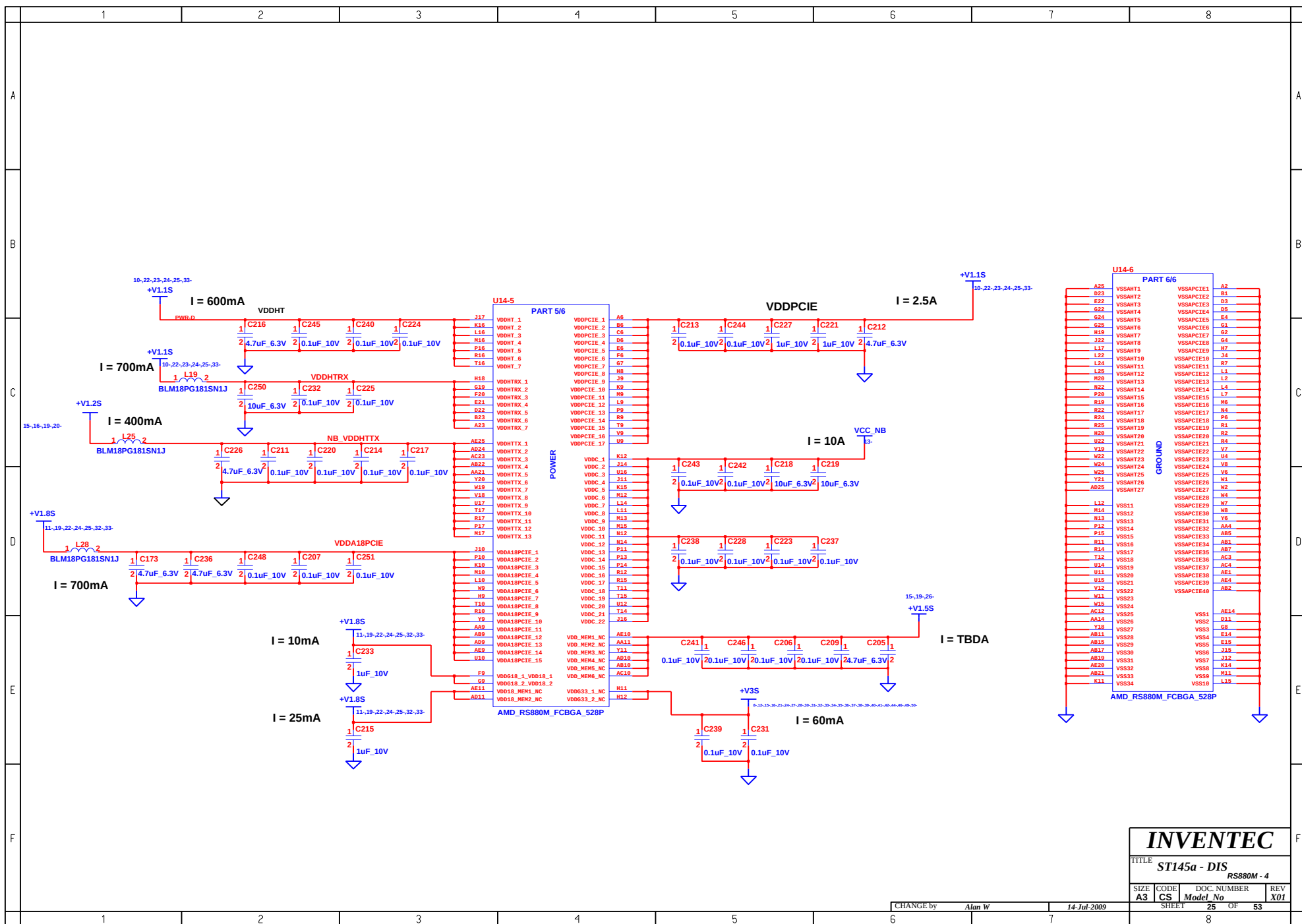
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ST145a - DIS			
FAN & THERMAL			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by Alan W 14-Jul-2009

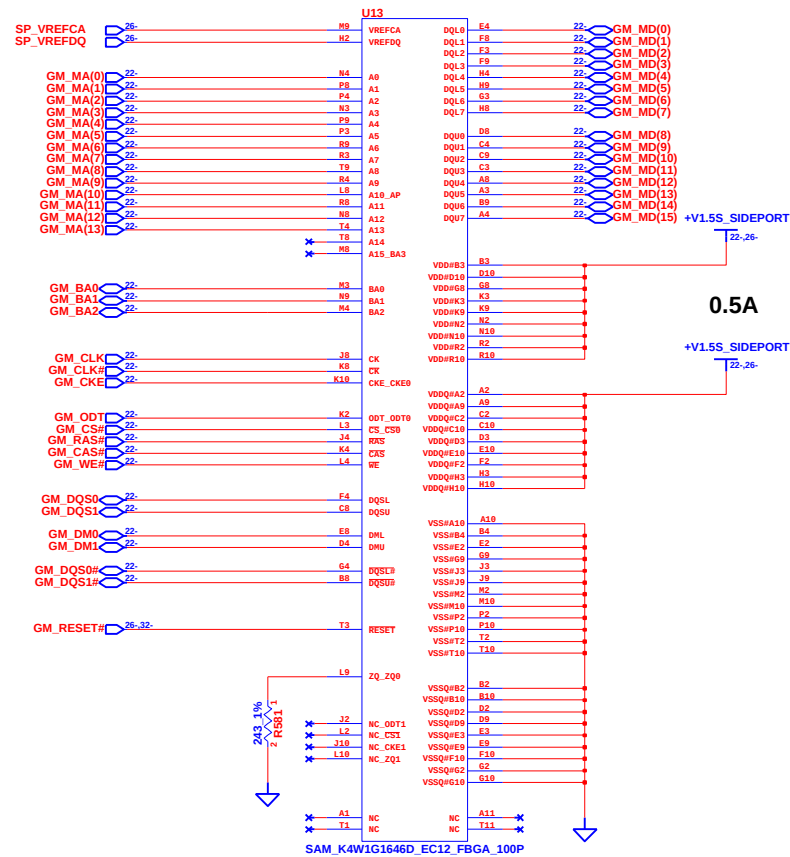
SHEET 21 OF 53



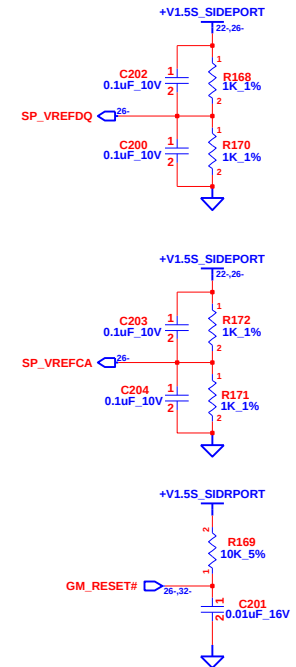
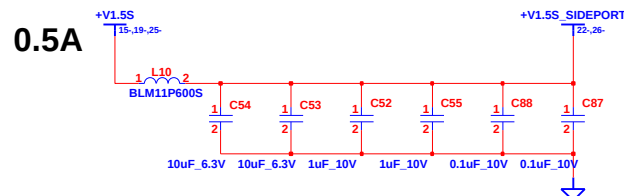




SIDE-PORT DDR III



E Die P/N = 6019B0648501



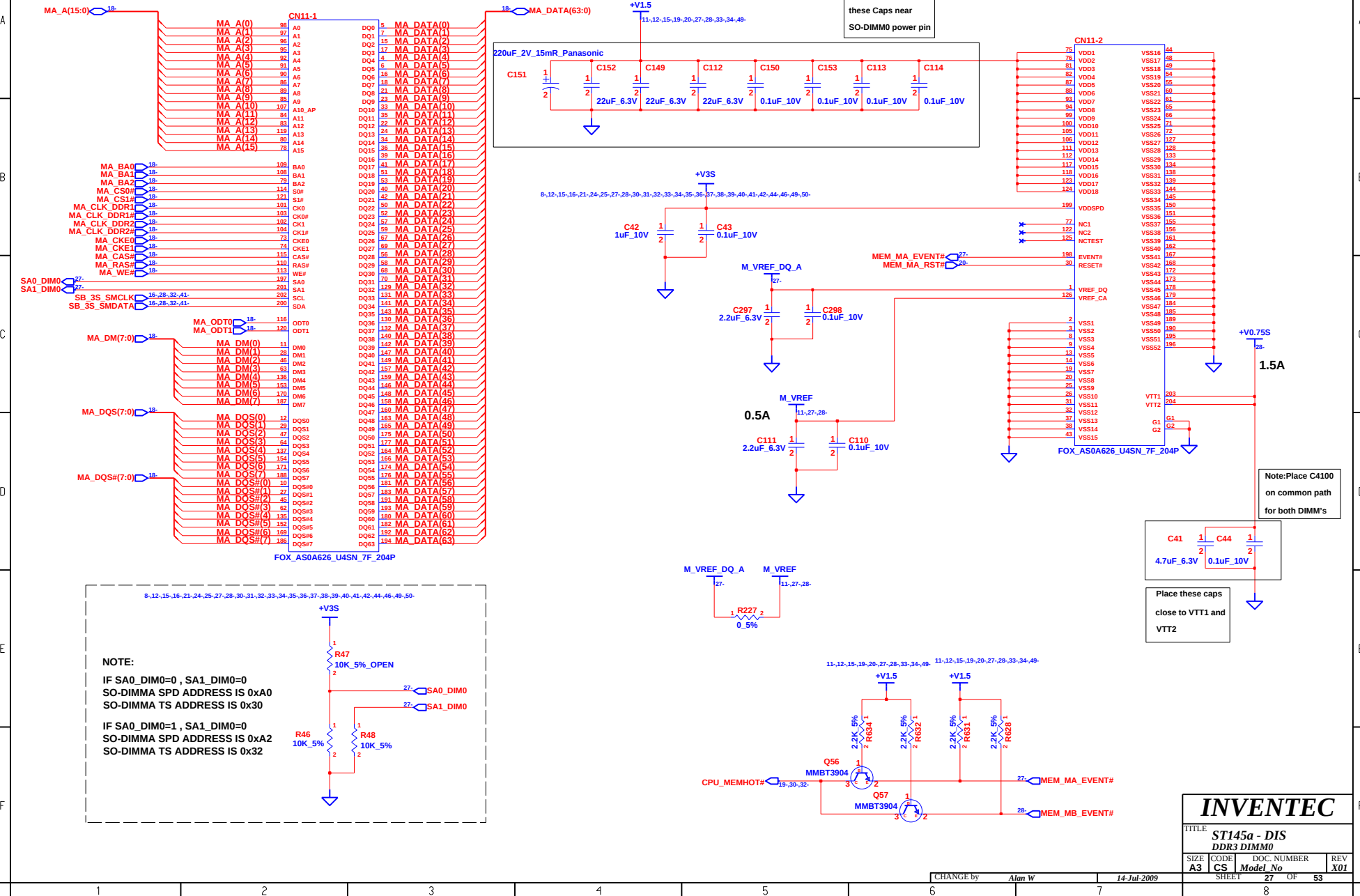
INVENTEC

TITLE			
ST145a - DIS			
SIDE-PORT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		26	OF 53

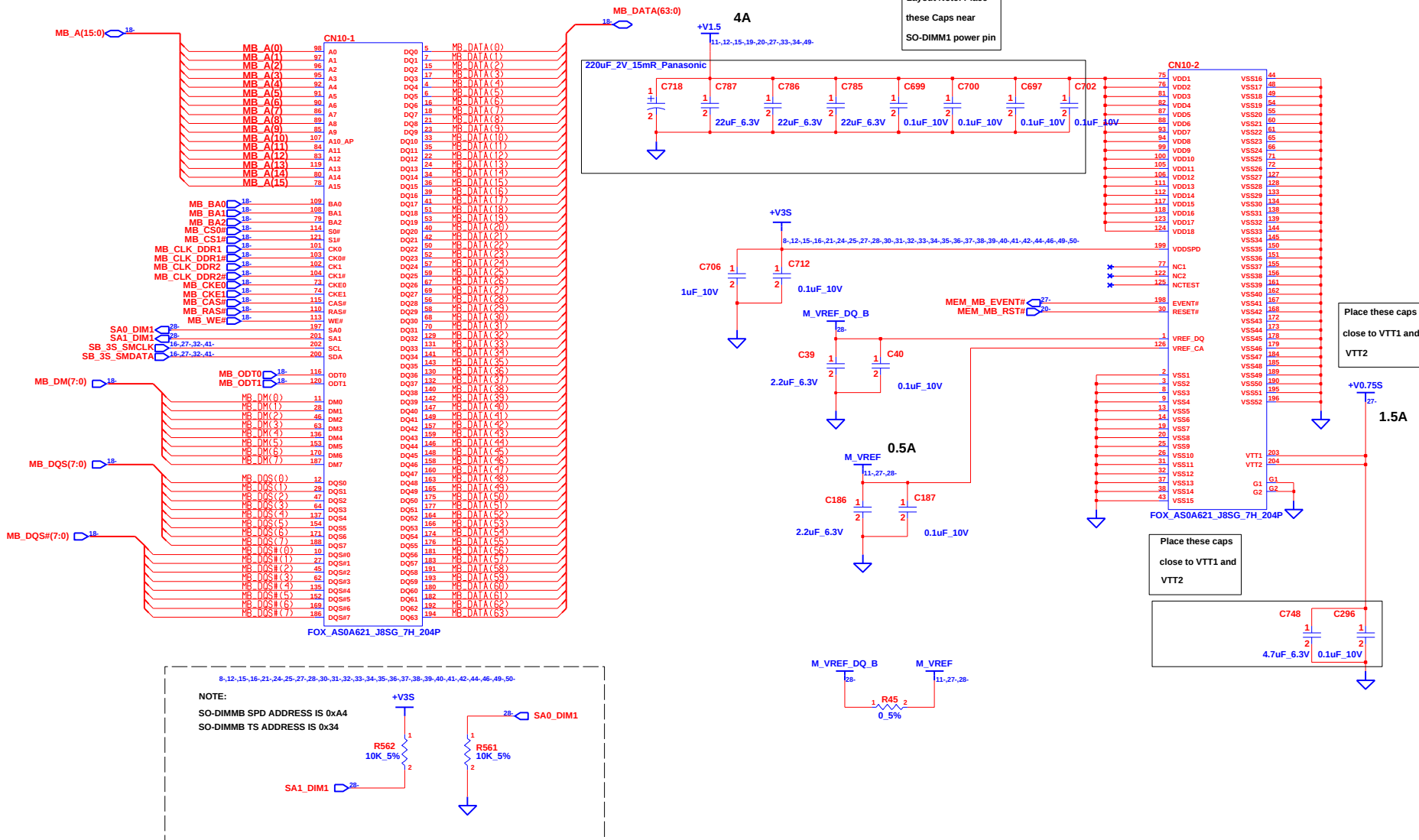
CHANGE by Alan W 14-Jul-2009

8

SO-DIMM0



SO-DIMM1



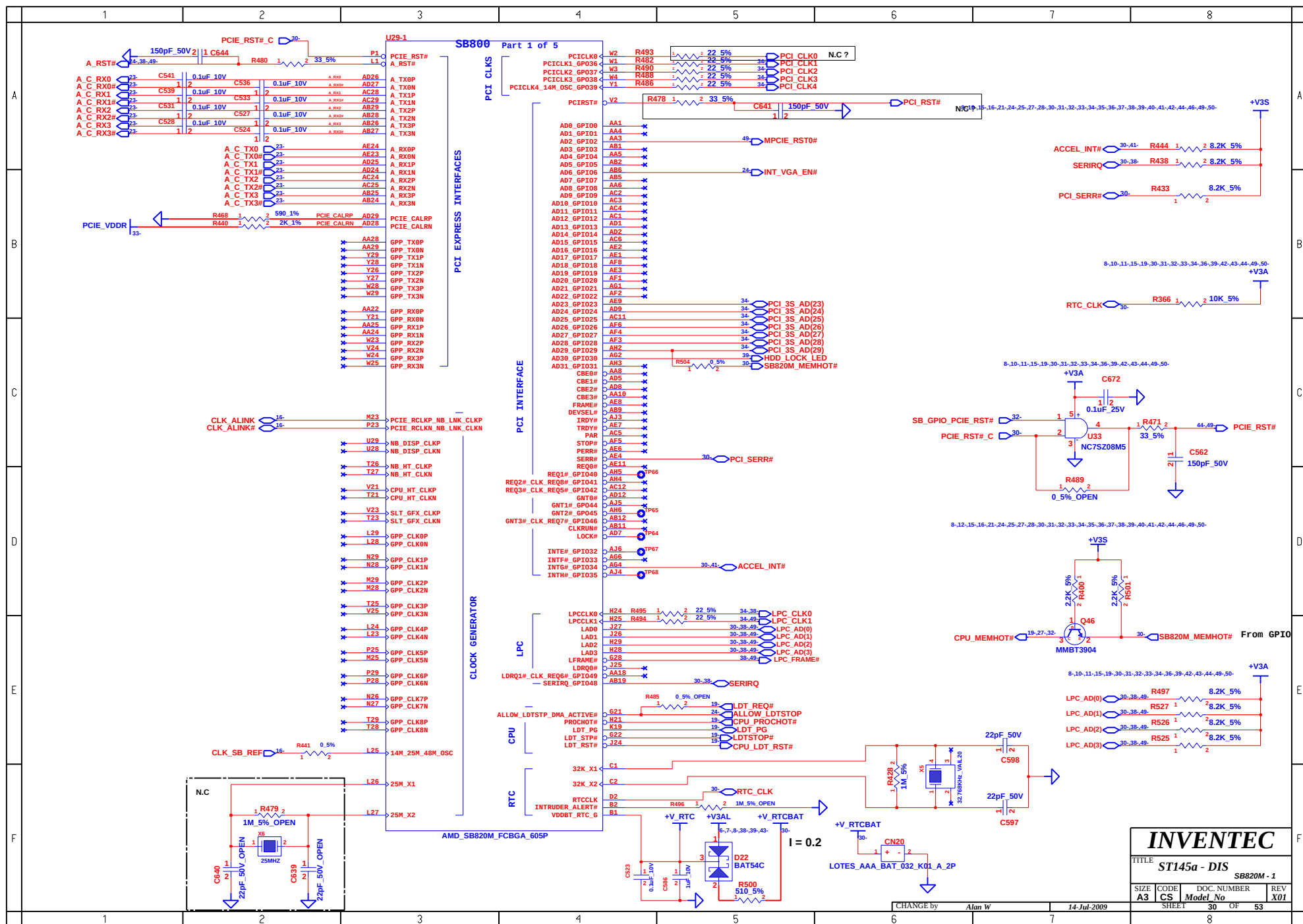
INVENTEC

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ST145a - DIS			
DDR3 DIMM1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		28	OF 53

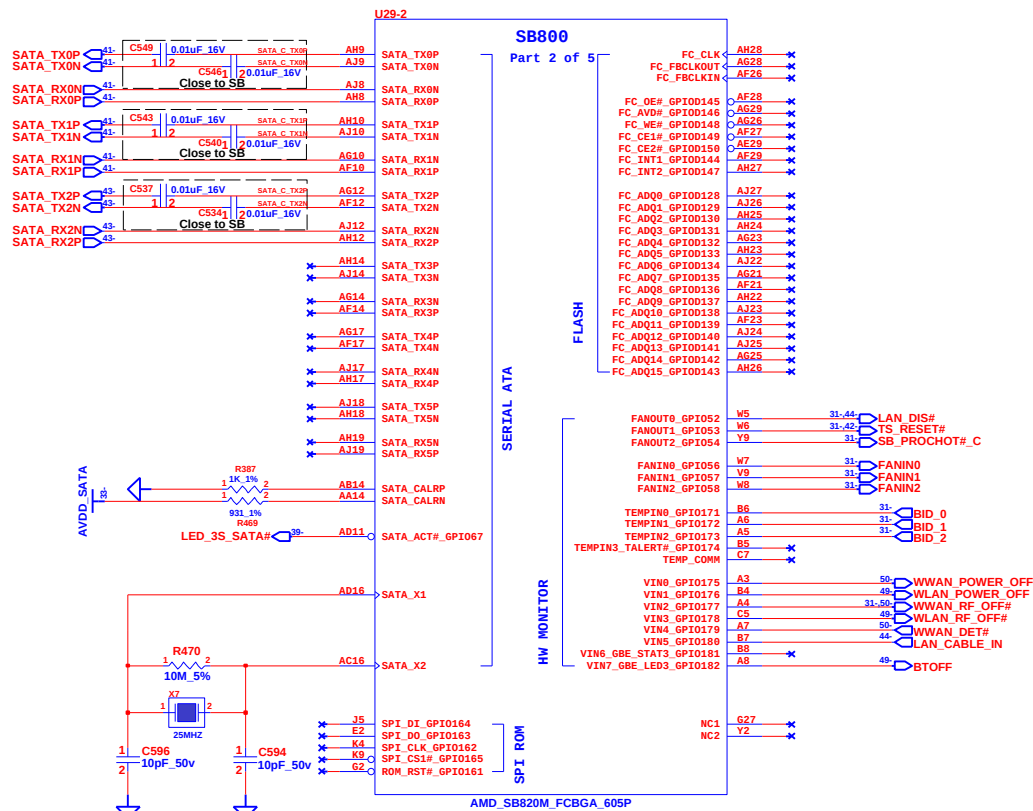
CHANGE by Alan W 14-Jul-2009

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B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Alan W</i>		<i>14-Jul-2009</i>	
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE <i>ST145a - DIS</i> <i>DDR3 DAMPING</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
SHEET		29	OF 53

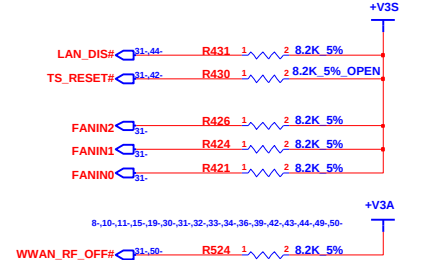
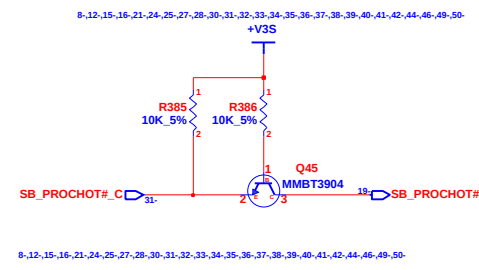
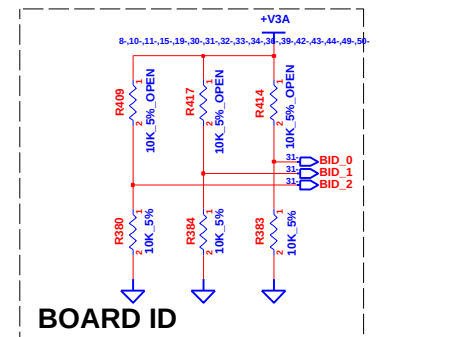


SATA_0 --- HDD
SATA_1--- ODD
SATA_2--- ESATA



	BID_1	BID_0
HYNIX	0	0
SAMSUNG	0	1
QIMONDA	1	0

	BID_2
0	UMA
1	DIS



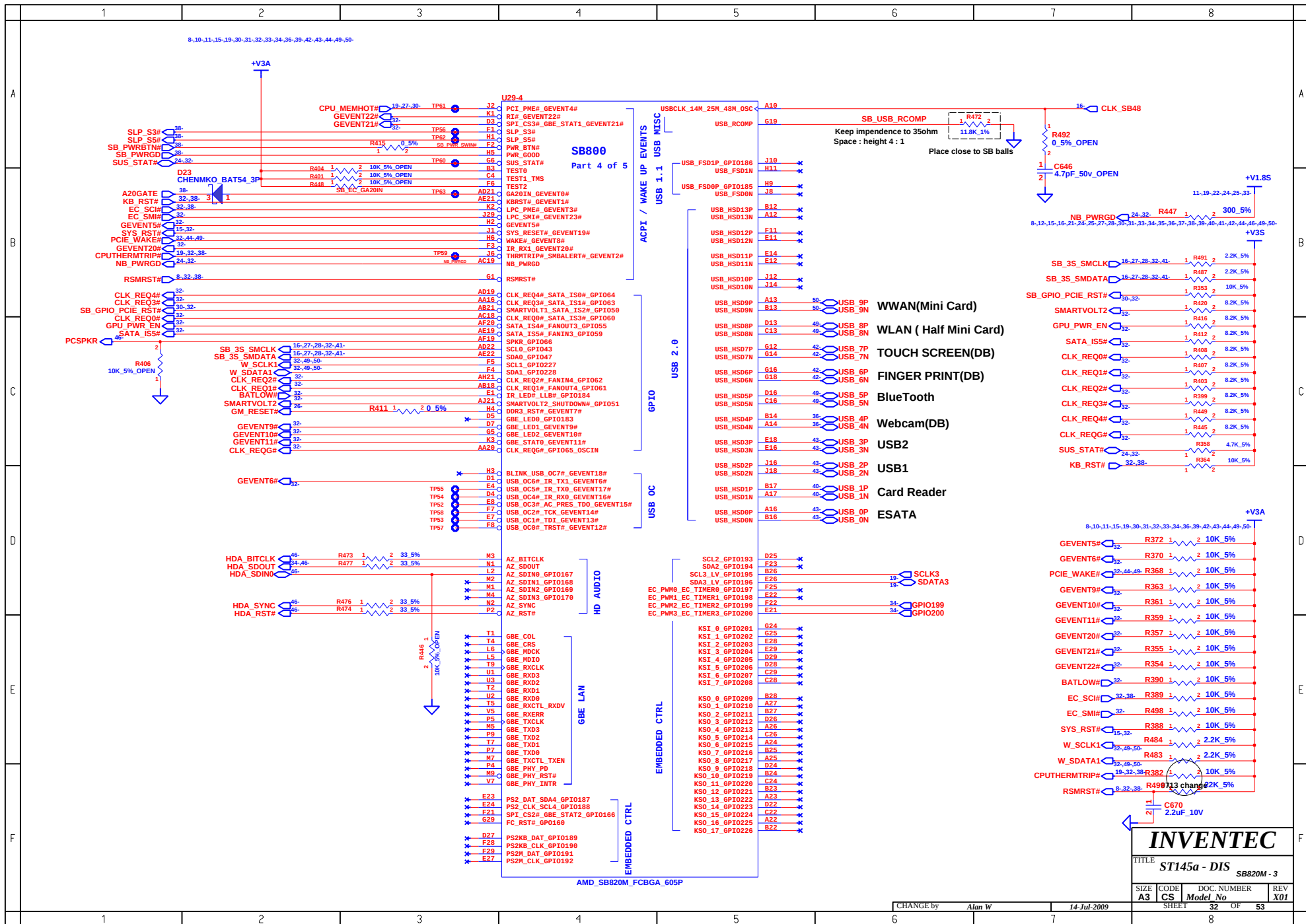
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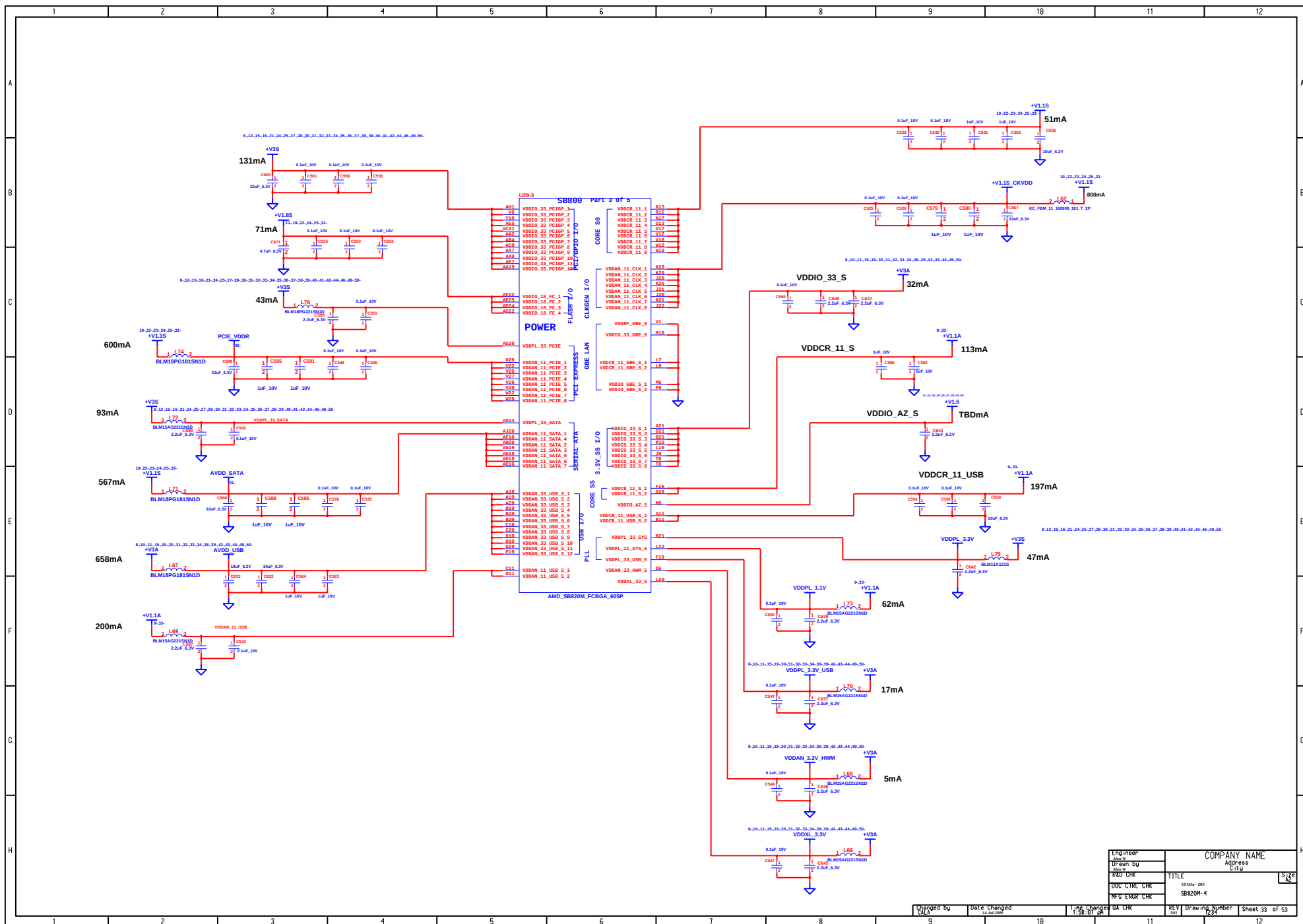
TITLE
ST145a - DIS
SB820M-2

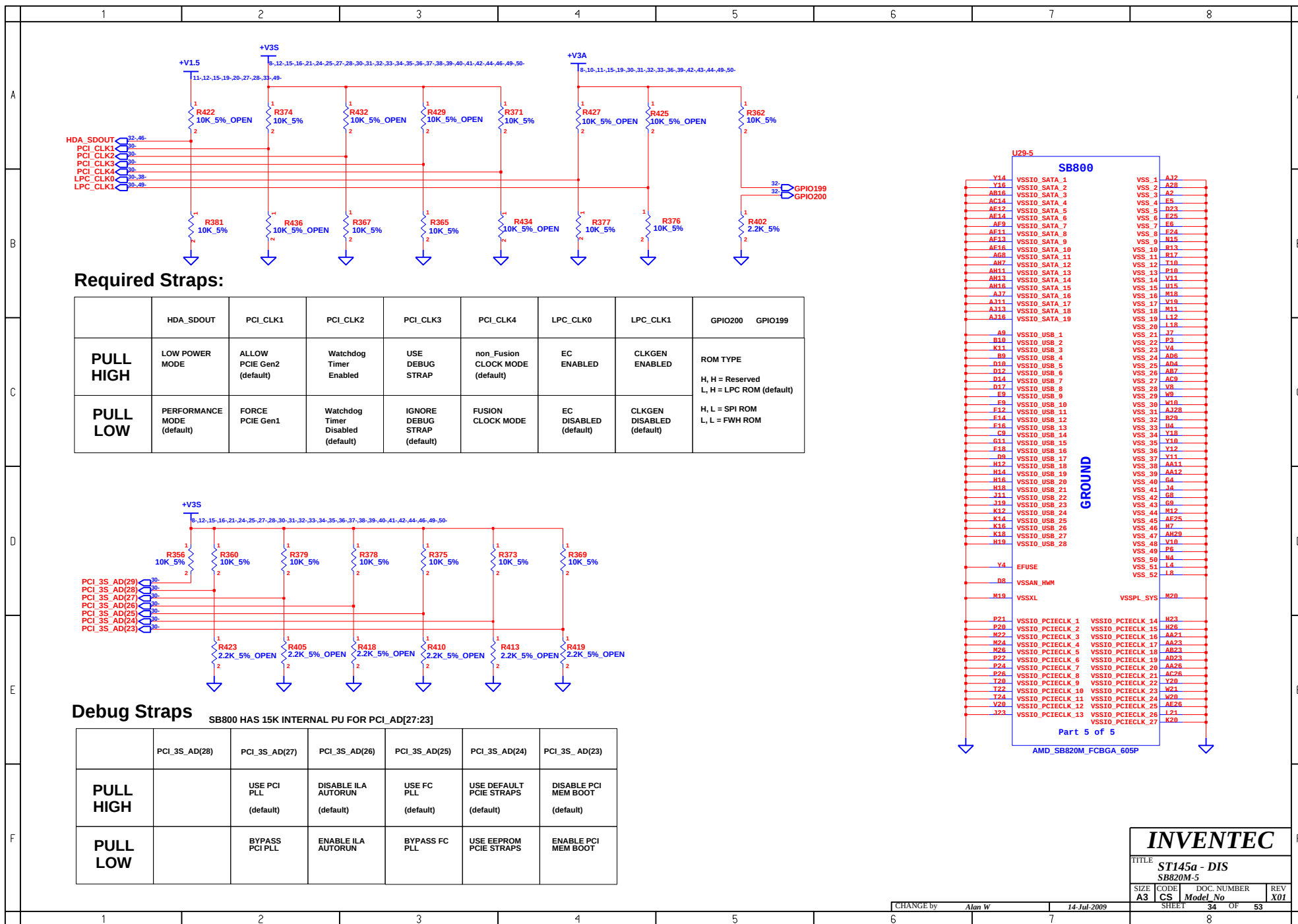
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A3 CS Model No 31 OF 53 X01

CHANGE by Alan W 14-Jul-2009

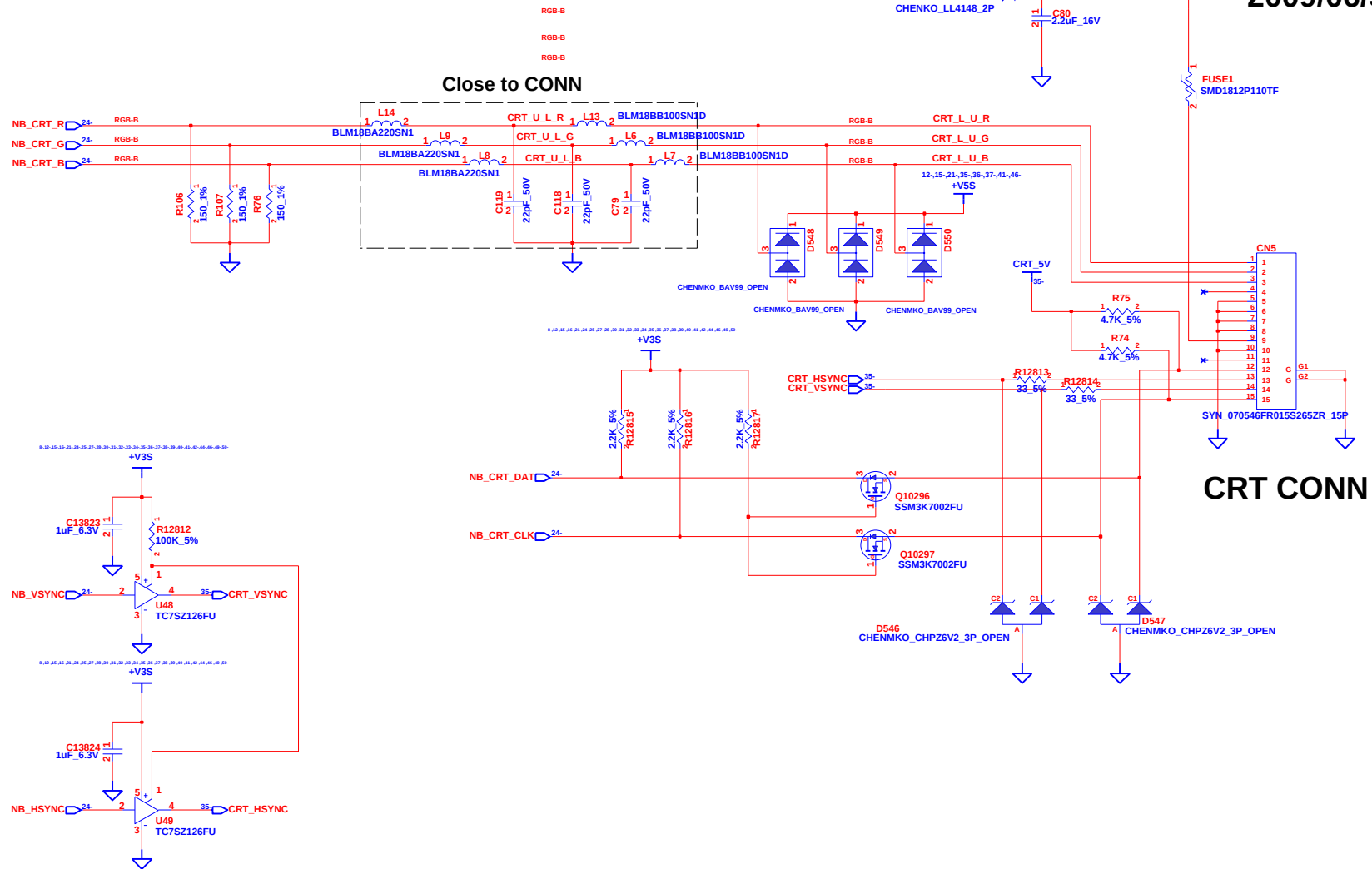
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PE_GPIO2	S1	S2
L	ON	OFF
H	OFF	ON

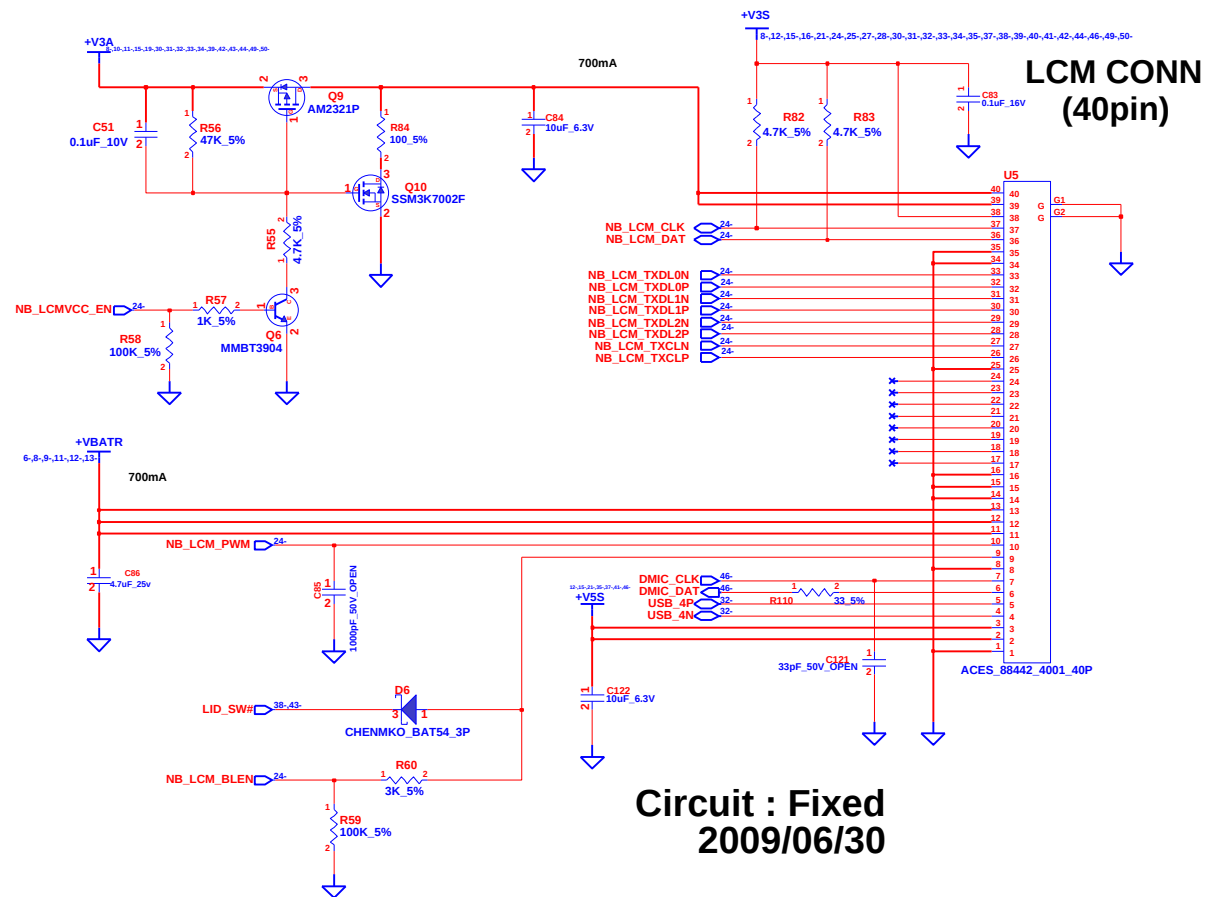


INVENTEC

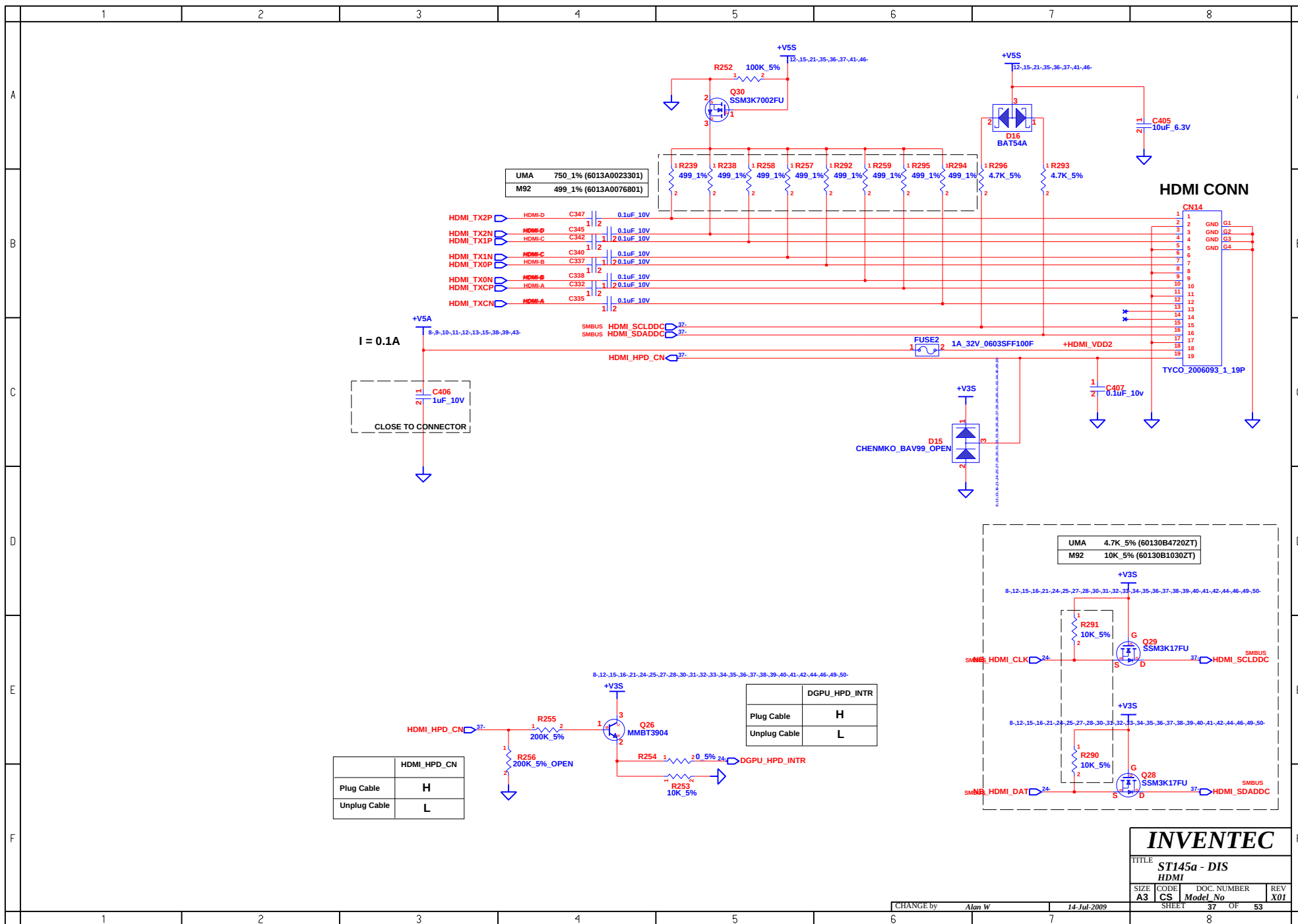
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ST145a - DIS			
CRT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		35	OF 53

CHANGE by Alan W 14-Jul-2009

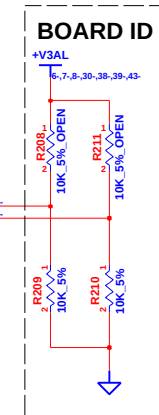
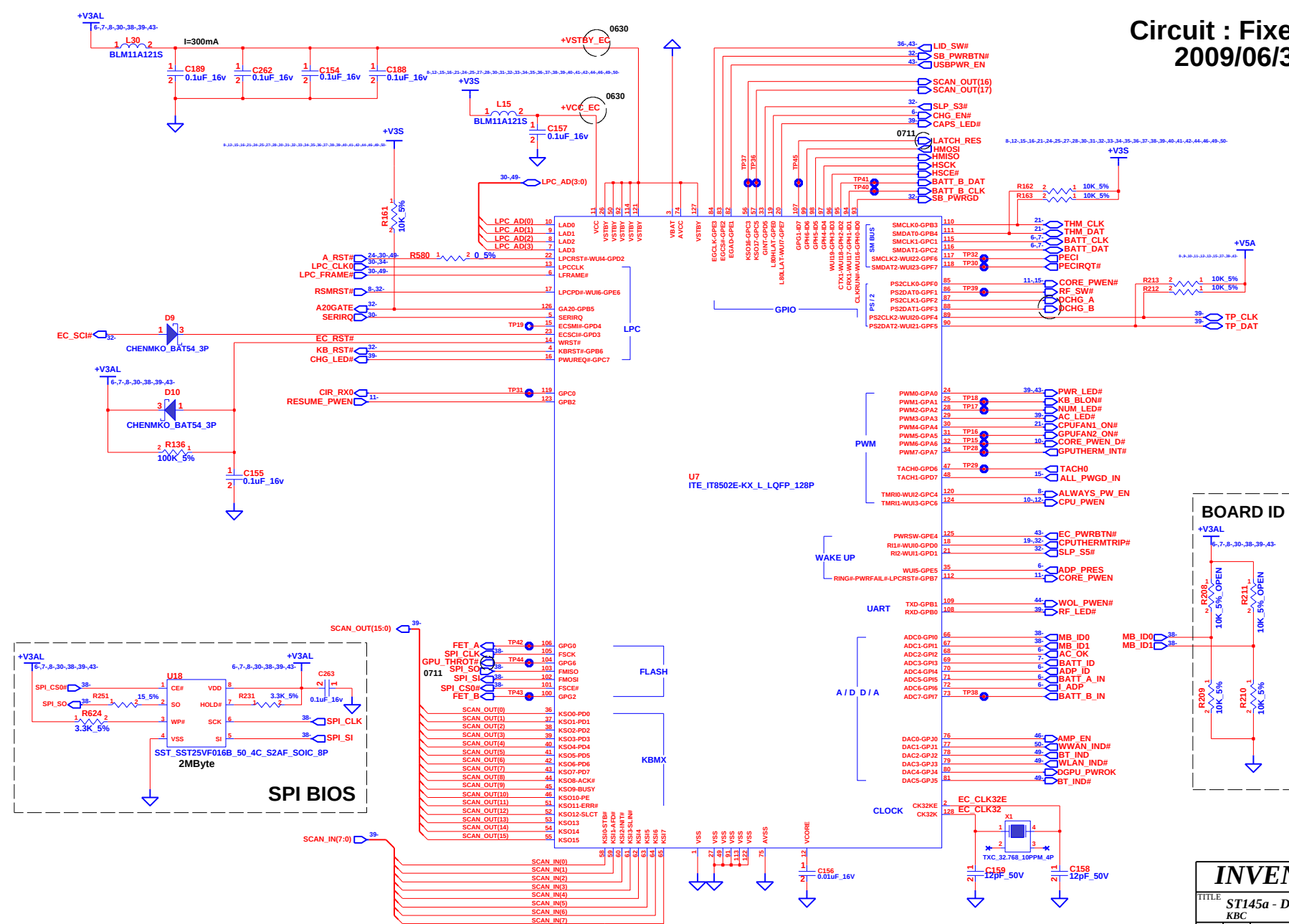
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INVENTEC			
TITLE			
ST145a - DIS			
LCM CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		14-Jul-2009	
Alan W			
SHEET		36	OF 53
		8	



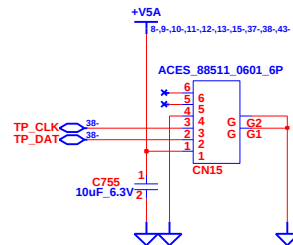
Circuit : Fixed 2009/06/30



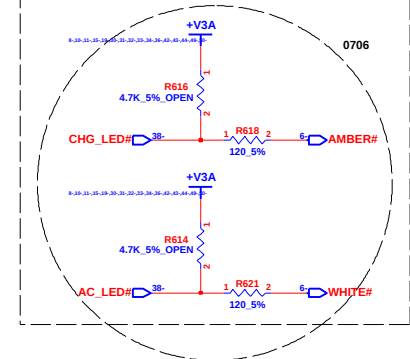
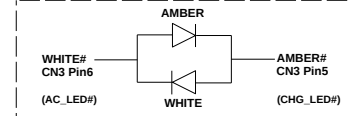
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TITLE ST145a - DIS				
KBC				
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X	
SHEET 38		OF 53		

CHANGE by Alan W 14-Jul-2009

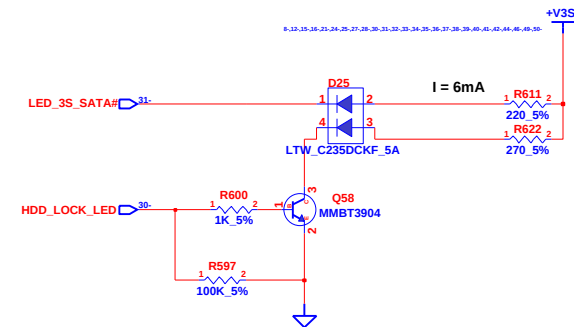
TouchPad Module CONN



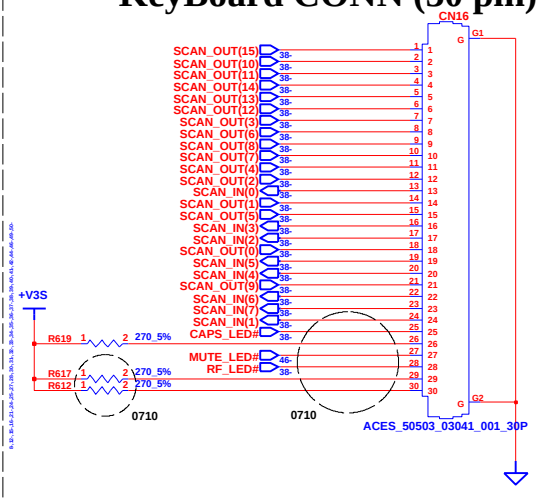
DC-JACK LED



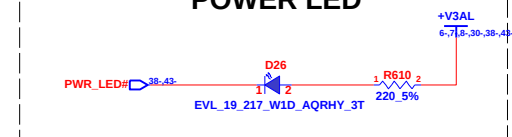
SATA LED & HDD-HALTED LED



KeyBoard CONN (30 pin)



POWER LED



INVENTEC

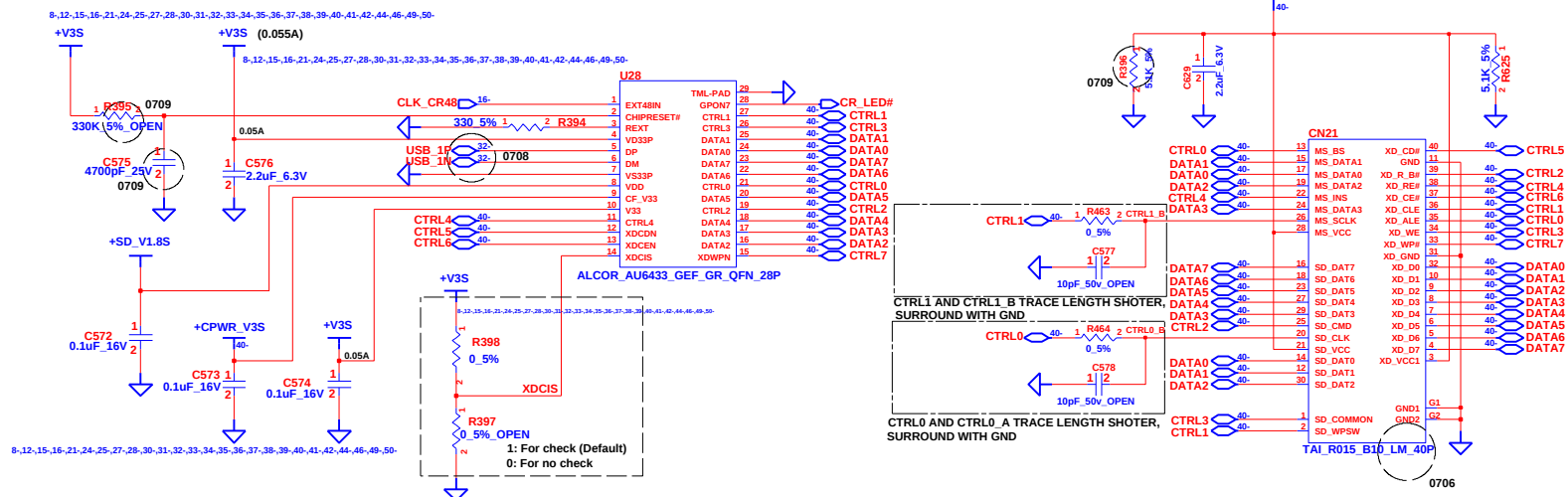
TITLE			
ST145a - DIS			
KEYBOARD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		39	OF 53

CHANGE by Alan W 14-Jul-2009

8

Circuit : Fixed 2009/07/08

Card Reader CONN

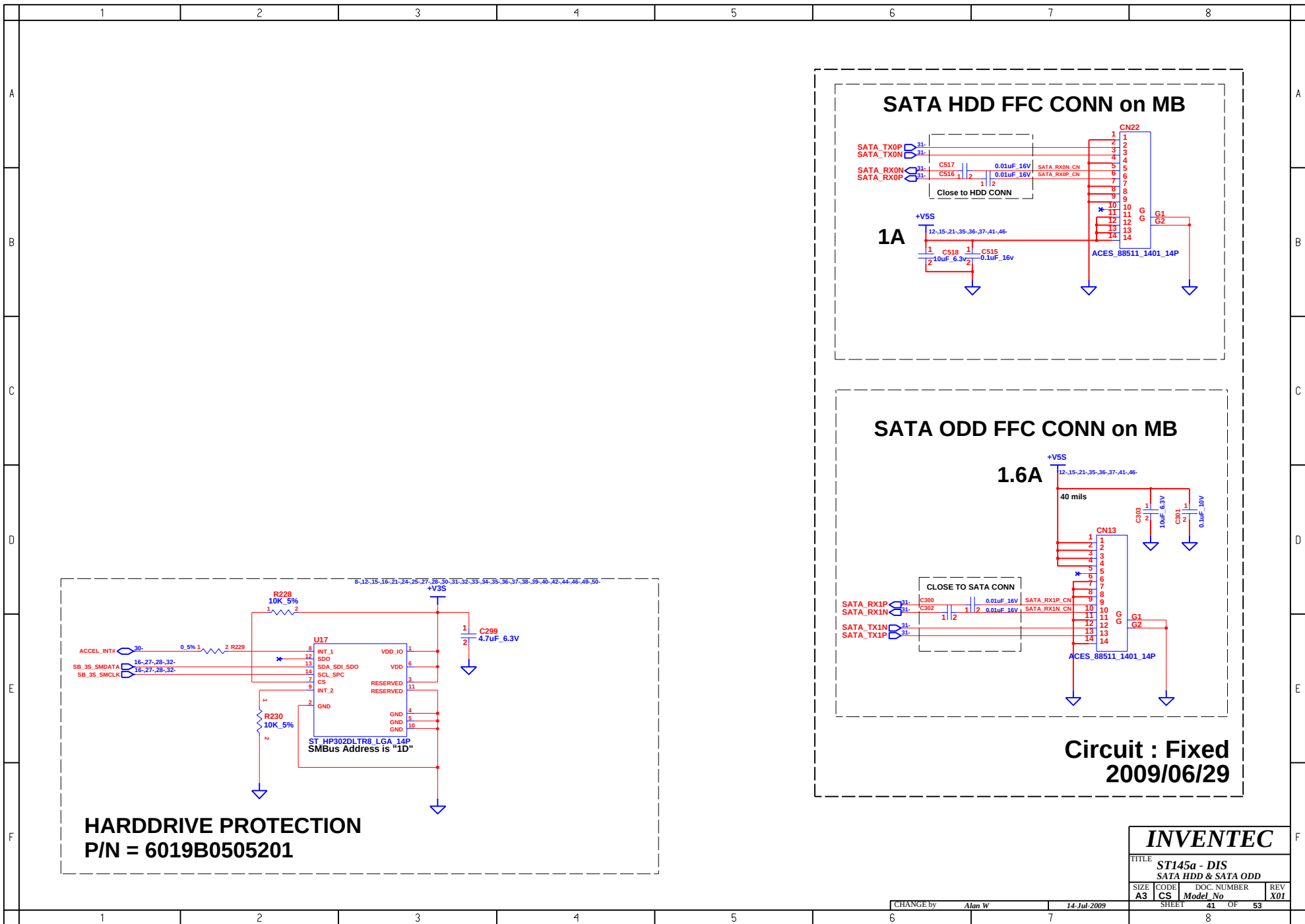


INVENTEC

TITLE			
ST145a - DIS			
AU6433 & CARDREADER CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		40 OF	53

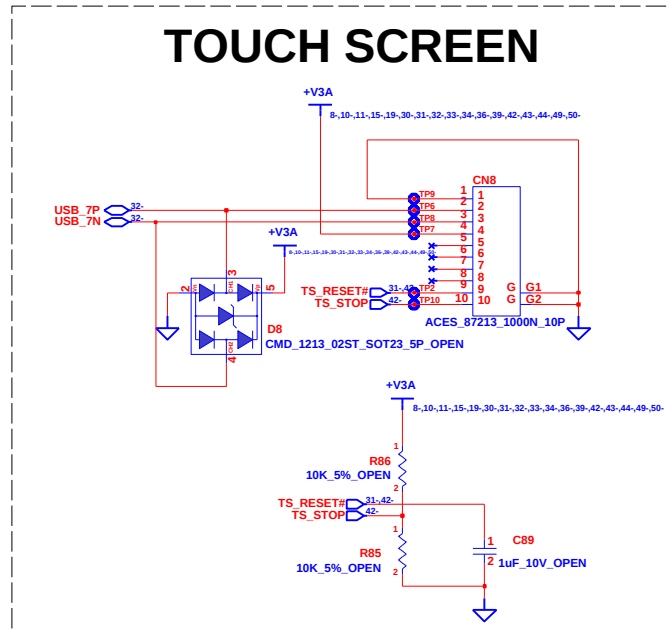
CHANGE by Alan W 14-Jul-2009

8

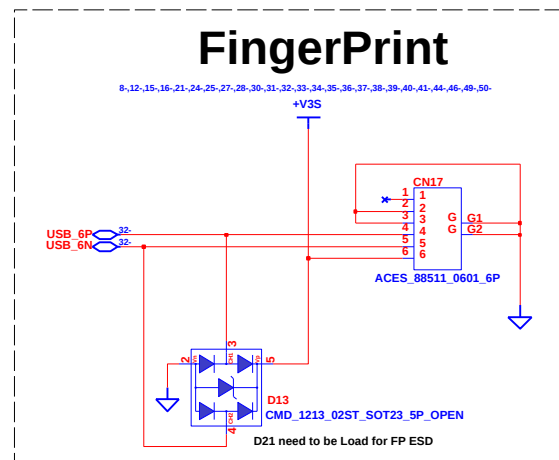


OPTION PART

TOUCH SCREEN



FingerPrint



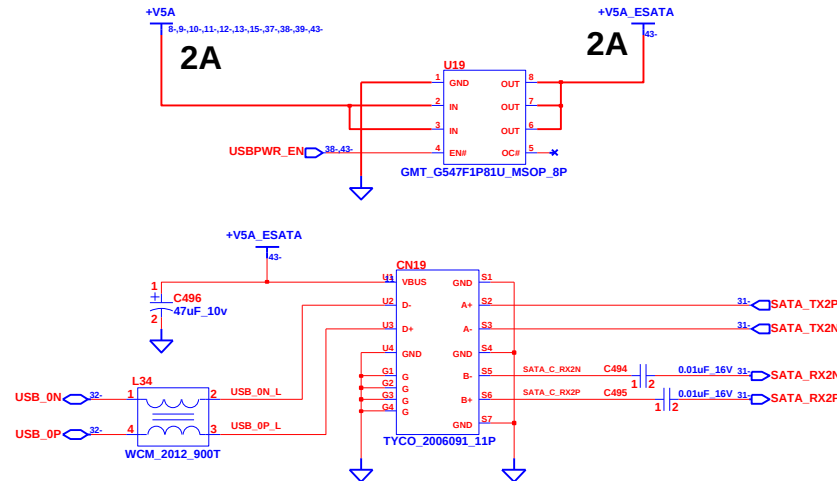
INVENTEC

TITLE			
ST145a - DIS			
TOUXH SCREEN & FINGERPRINT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		42	OF 53

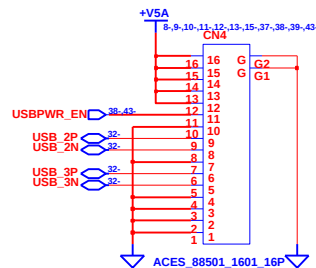
CHANGE by Alan W 14-Jul-2009

8

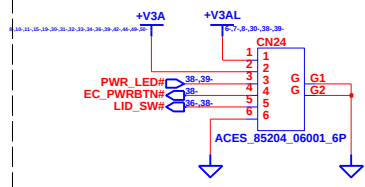
ESATA CONN (without Re-Driver chip)



USB BOARD Cable on MB



PBN Cable CN on MB



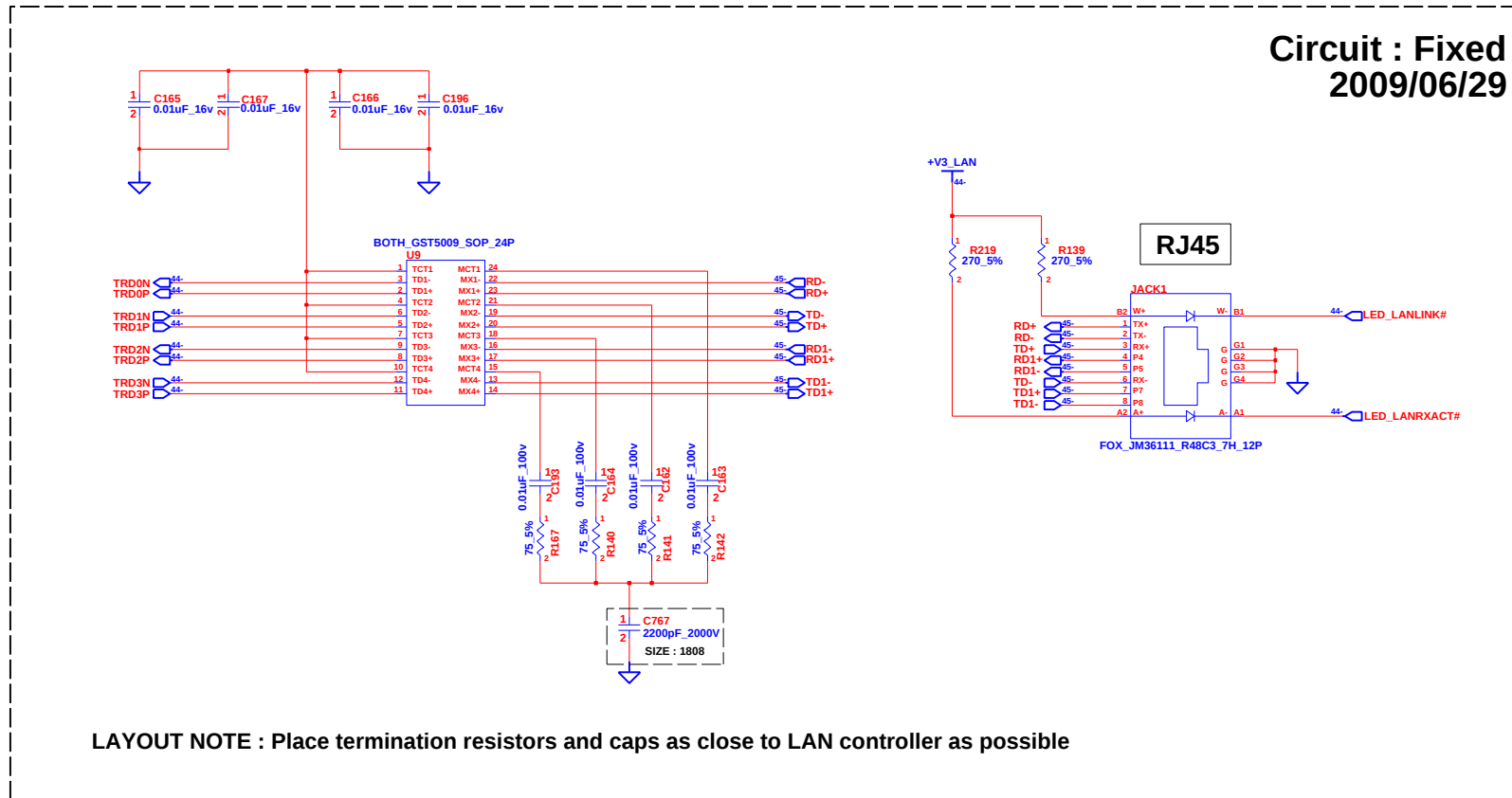
Circuit : Fixed
2009/06/29

INVENTEC

TITLE			
ST145a - DIS			
ESATA & USB BOARD CABLE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		43	OF 53

CHANGE by Alan W 14-Jul-2009

8

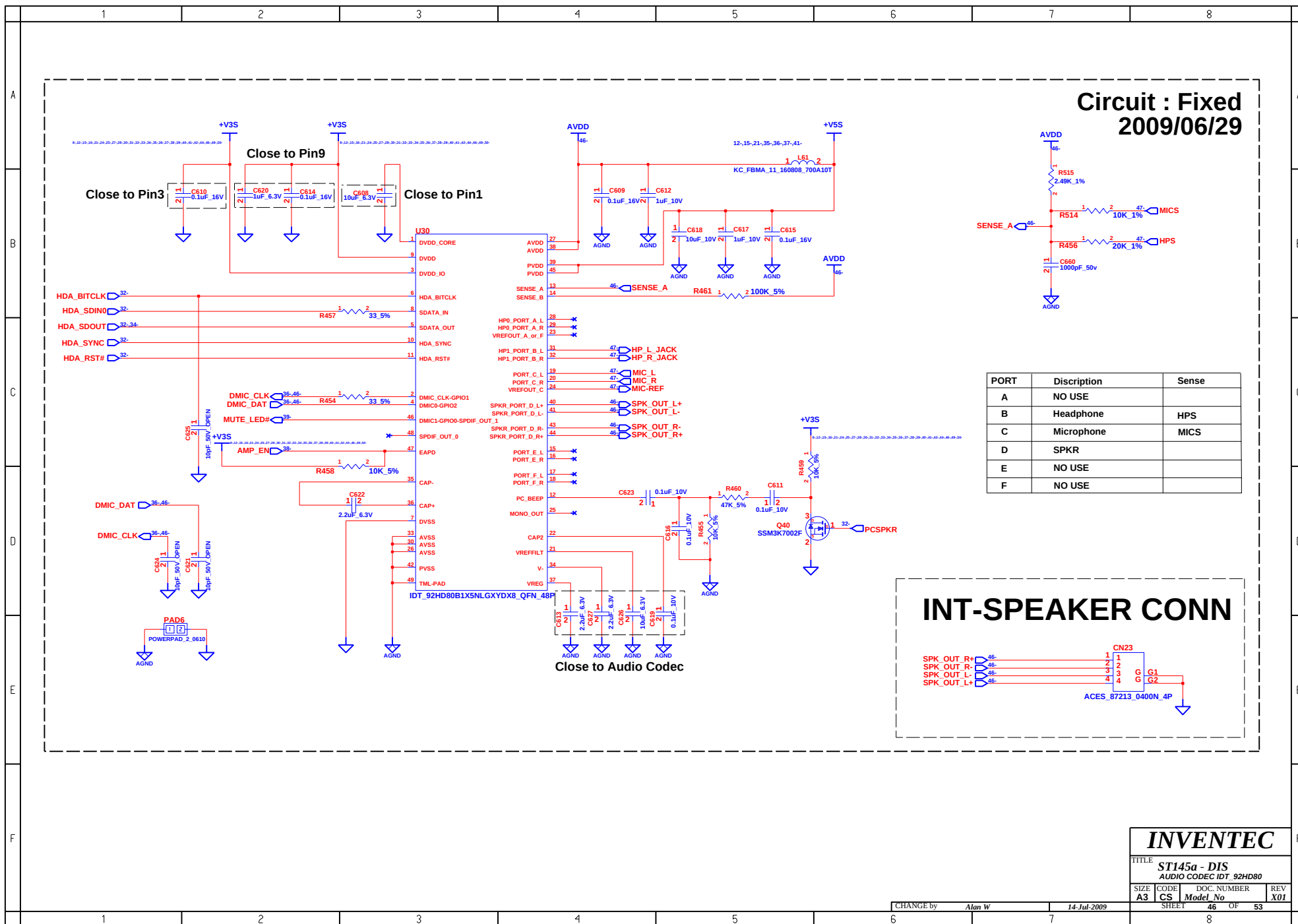


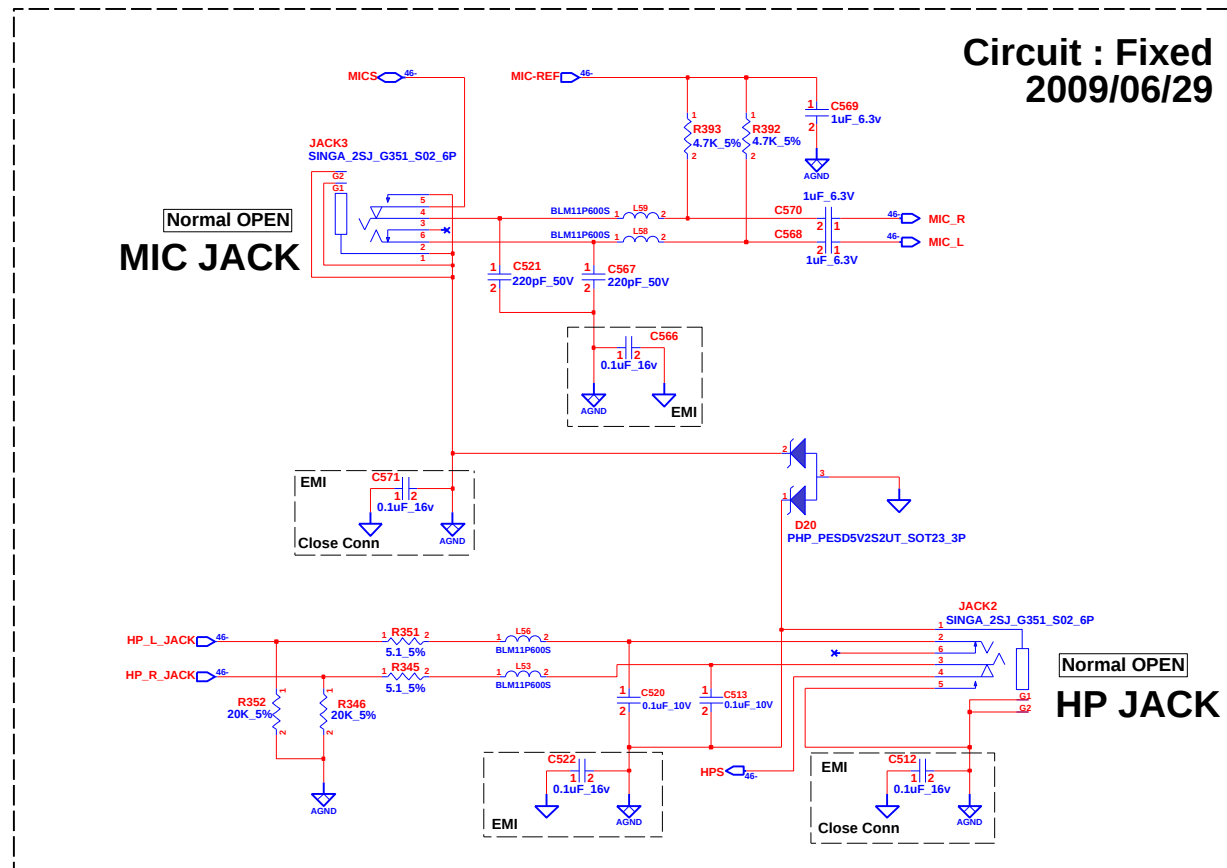
INVENTEC

TITLE			
ST145a - DIS			
LAN & RJ45 CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		45	OF 53

CHANGE by Alan W 14-Jul-2009

8



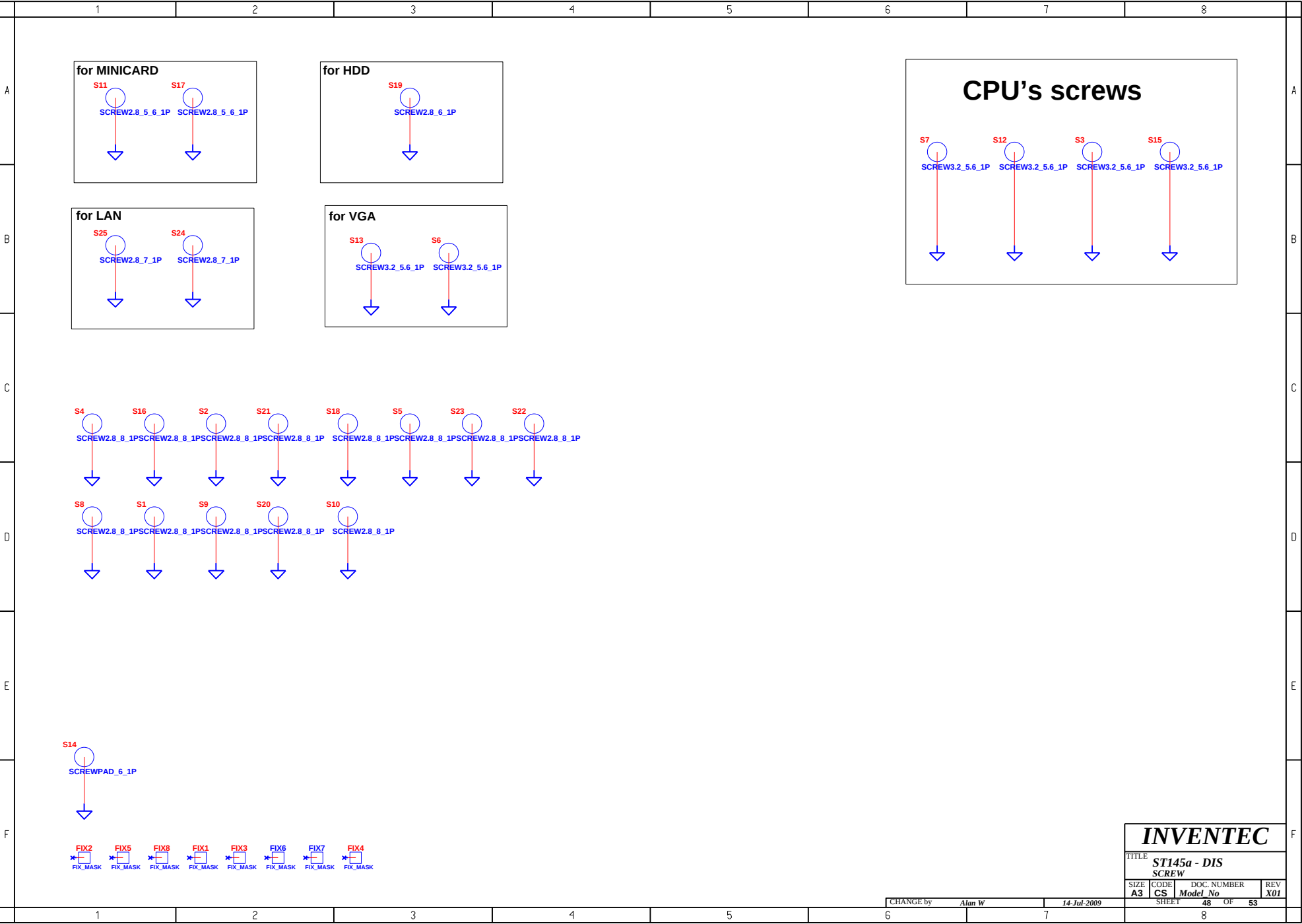


INVENTEC

TITLE			
ST145a - DIS			
AUDIO JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by Alan W 14-Jul-2009

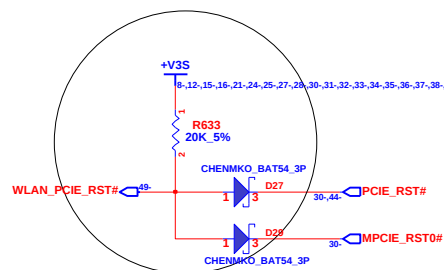
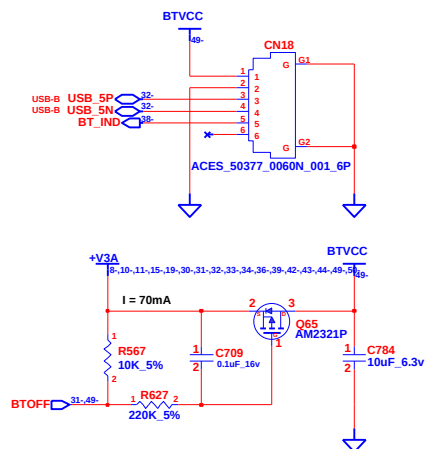
SHEET 47 OF 53



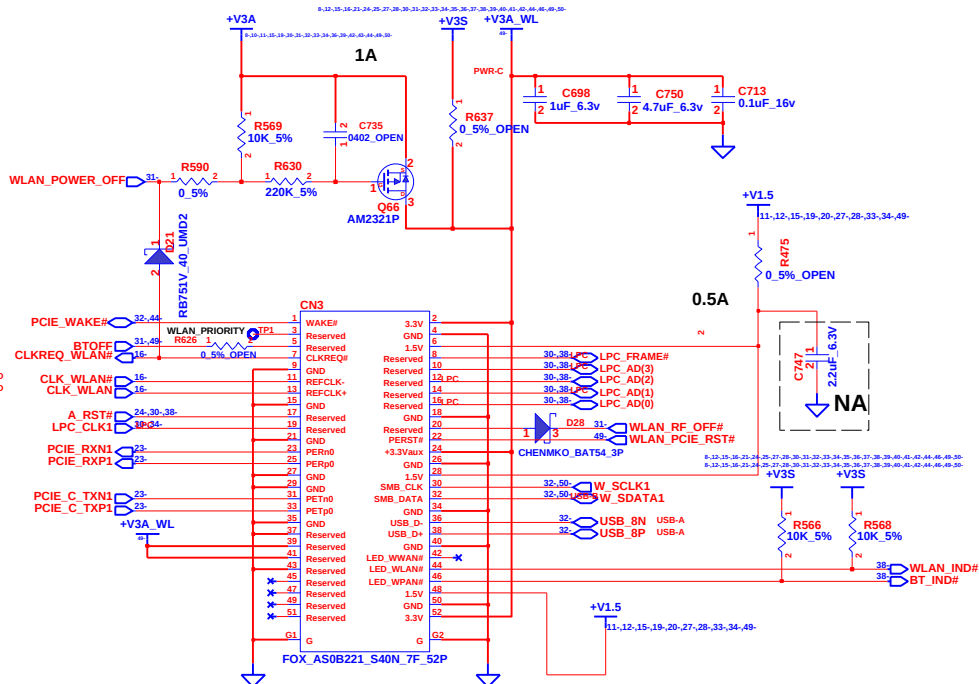
INVENTEC			
TITLEST145a - DIS SCREW			
SIZEA3	CODECS	DOC. NUMBERModel No	REVX01
SHEET		48	OF 53

CHANGE by Alan W 14-Jul-2009

BLUETOOTH CONN



WLAN CONN (MINICARD)



	PCH	SB800I820
WLAN_RF_OFF#	GPIO57	GPIO12
WLAN_POWER_OFF	GPIO35	GPIO176

Circuit : Fixed
2009/06/29

INVENTEC

TITLE
ST145a - DIS
WLAN & BT CONN

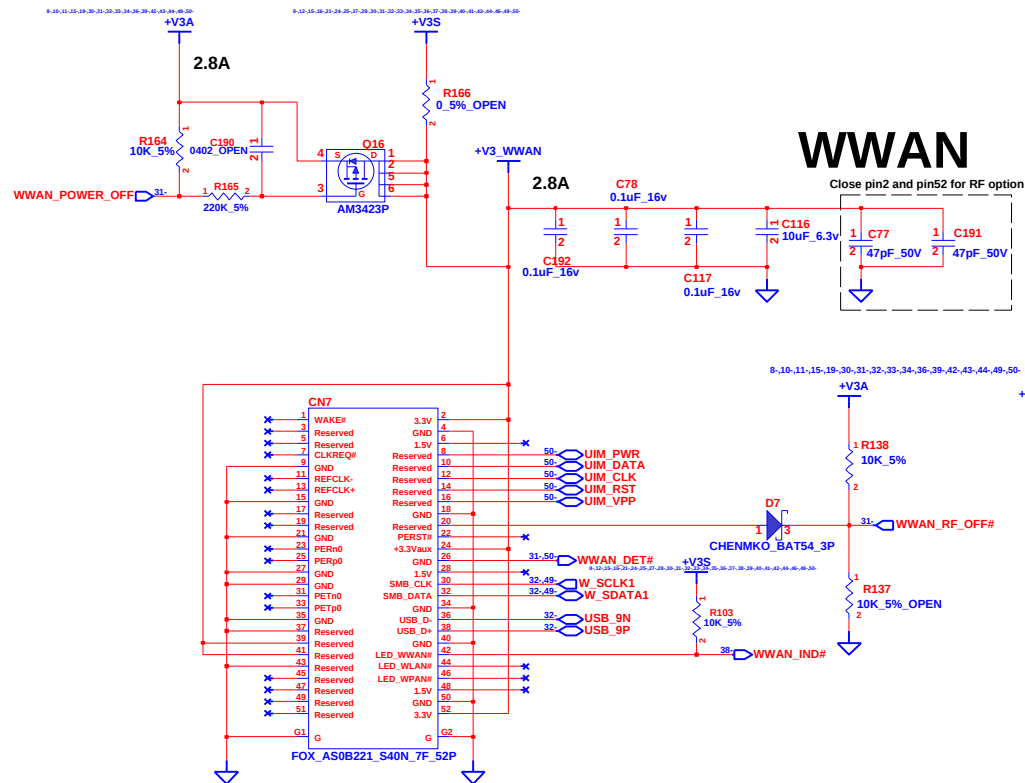
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by Alan W 14-Jul-2009

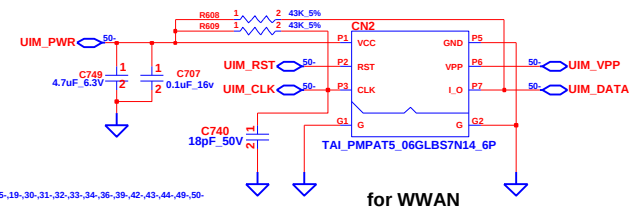
SHEET 49 OF 53

OPTION PART

Circuit : Fixed
2009/06/29



SIM CARD CONN



	PCH	SB800i820
WWAN_RF_OFF#	GPIO27	GPIO11
WWAN_POWER_OFF	GPIO24	GPIO175
WWAN_DET#	GPIO22	GPIO13

INVENTEC

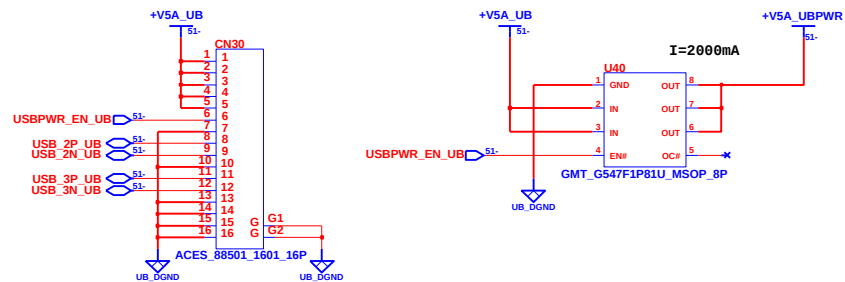
TITLE
ST145a - DIS
WWAN & SIM CARD CONN

SIZE CODE CS DOC. NUMBER REV
A3 Model No X01

CHANGE by Alan W 14-Jul-2009

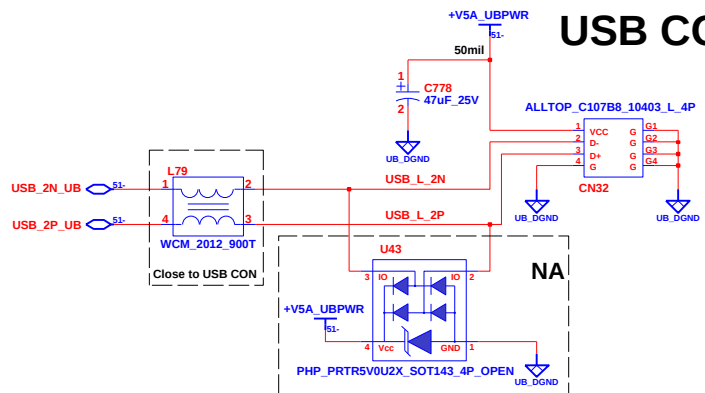
SHEET 50 OF 53

USB BOARD Cable ON UB

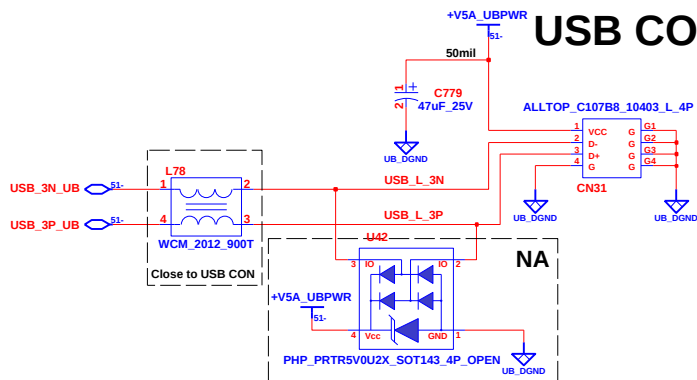


Circuit : Fixed
2009/06/29

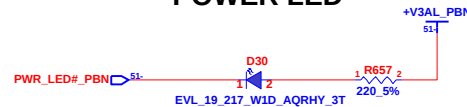
USB CONN01



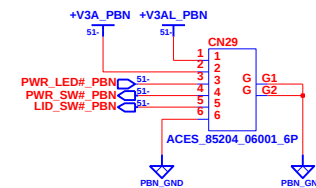
USB CONN02



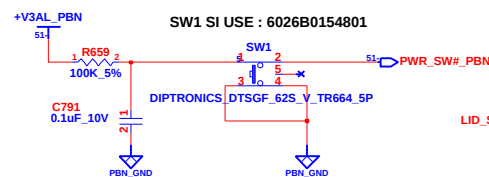
POWER LED



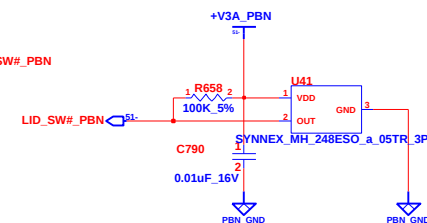
PBN Cable CN on PBN



POWER BUTTON



LID SWITCH



Circuit : Fixed
2009/06/29

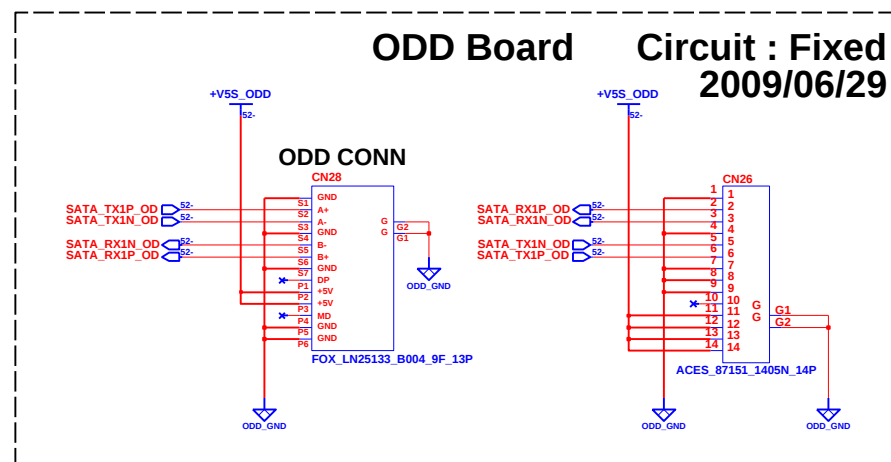
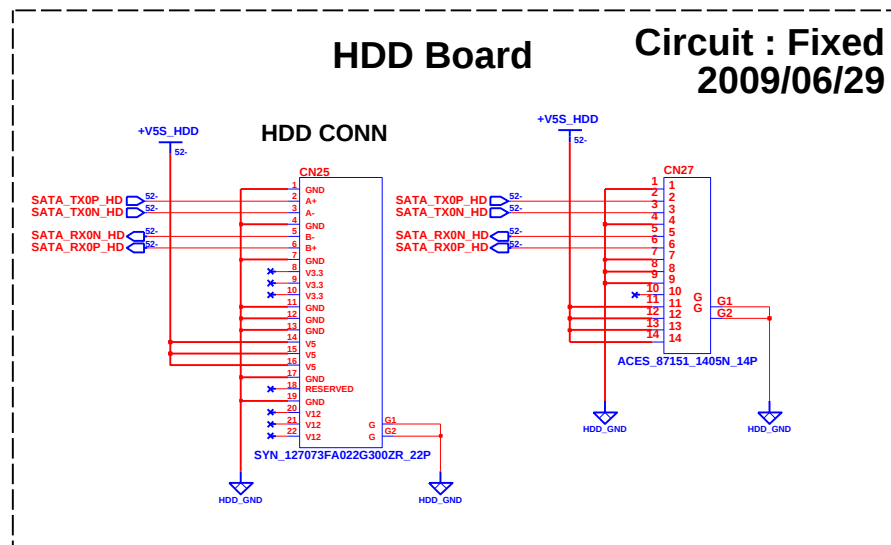
INVENTEC

TITLE
ST145a - DIS

SIZE CODE DOC. NUMBER REV
A3 CS Model No X01

CHANGE by Alan W 14-Jul-2009

SHEET 51 OF 53



INVENTEC			
TITLE			
ST145a - DIS			
Subwoofer AMP & CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		52 OF	53
		8	

CHANGE by Alan W 14-Jul-2009