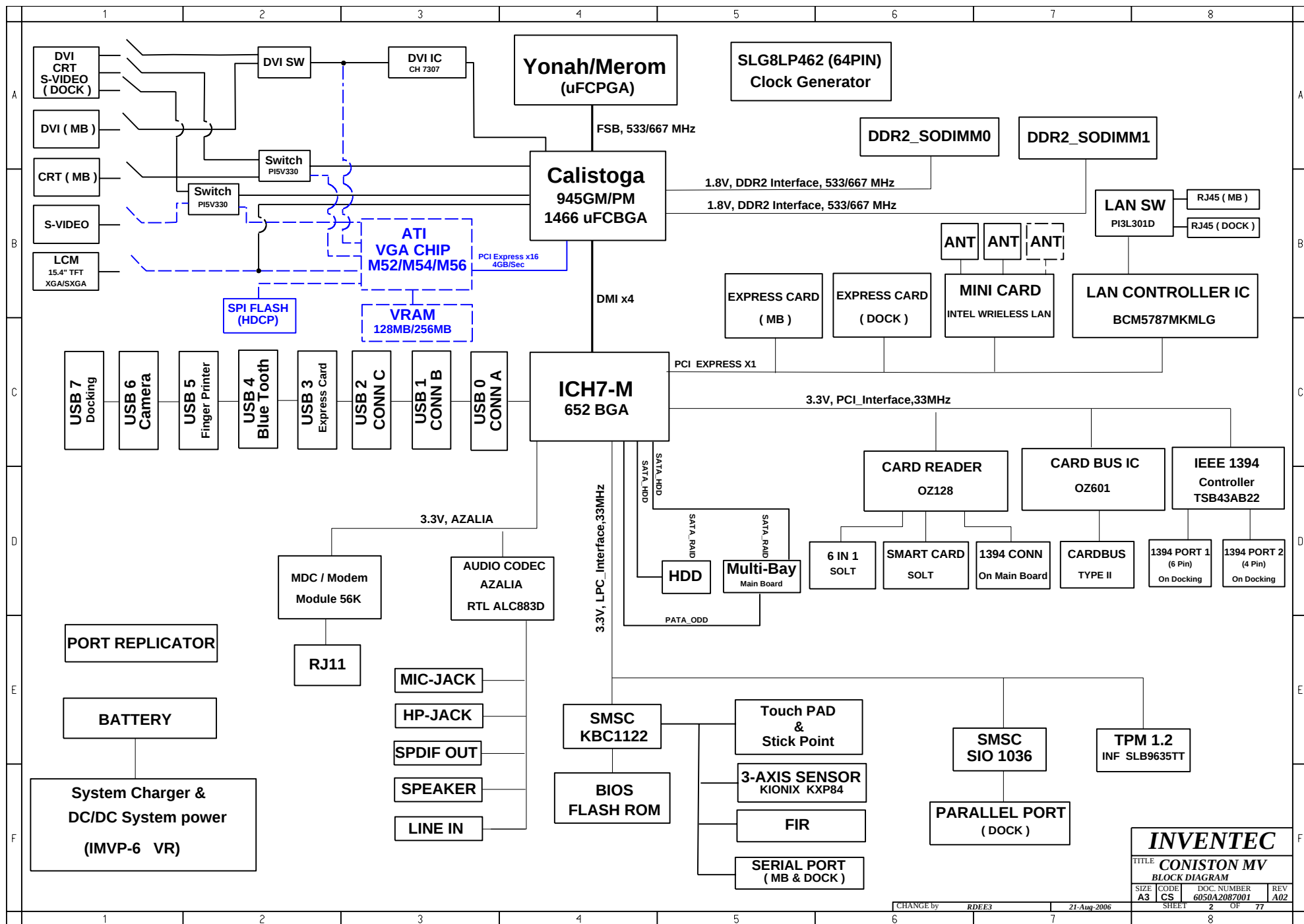


CONISTON 1.0

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1	TABLE OF CONTENTS	27	ATI M52P/M54P/M56P #1	53	SUPER I/O CONTROLLER& BIOS
2	SYSTEM BLOCK DIAGRAM	28	ATI M52P/M54P/M56P #2	54	THERMAL SENSOR & FAN
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4	DC & BATTERY CHANGER	30	ATI M52P/M54P/M56P #4	56	1394 CONNECTOR
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7	CPU POWER (+VCC_CORE)	33	GPU VRAM #1	59	CARDBUS CONNECTOR
8	SYSTEM POWER (+VCCP / +V1.5S)	34	GPU VRAM #2	60	SMART CARD & 5 IN 1 CONN.
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10	SYSTEM POWER	36	CRT CONNECTOR	62	AUDIO CODEC
11	SYSTEM POWER	37	LCD INTERFACE	63	AUDIO AMP. & JACK
12	SYSTEM POWER	38	TV-OUT SWITCH	64	USB CONNECTOR
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16	YONAH PROCESSOR #3	42	ICH7-M #4	68	LED & WIRELESS SWCH
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25	DDR II CONNECTOR (DIMM II)	51	RJ45 CONNECTOR	77	MULTIBAY ODD BOARD
26	DDR II DECOUPLING	52	KBC CONTROLLER		

DATE	CHANGE NO.	REV
1		2

	EE	DATE	POWER	DATE	INVENTEC TITLE CONISTON MV
DRAWER					
DESIGN					
CHECK					
RESPONSIBLE					
SIZE 3 VER :					SIZE CODE DOC. NUMBER REV
FILE NAME : XXXX-XXXXXX-XX					A3 CS 6050A2087001 A02
P/N XXXXXXXXXXXX					SHEET 1 OF 77



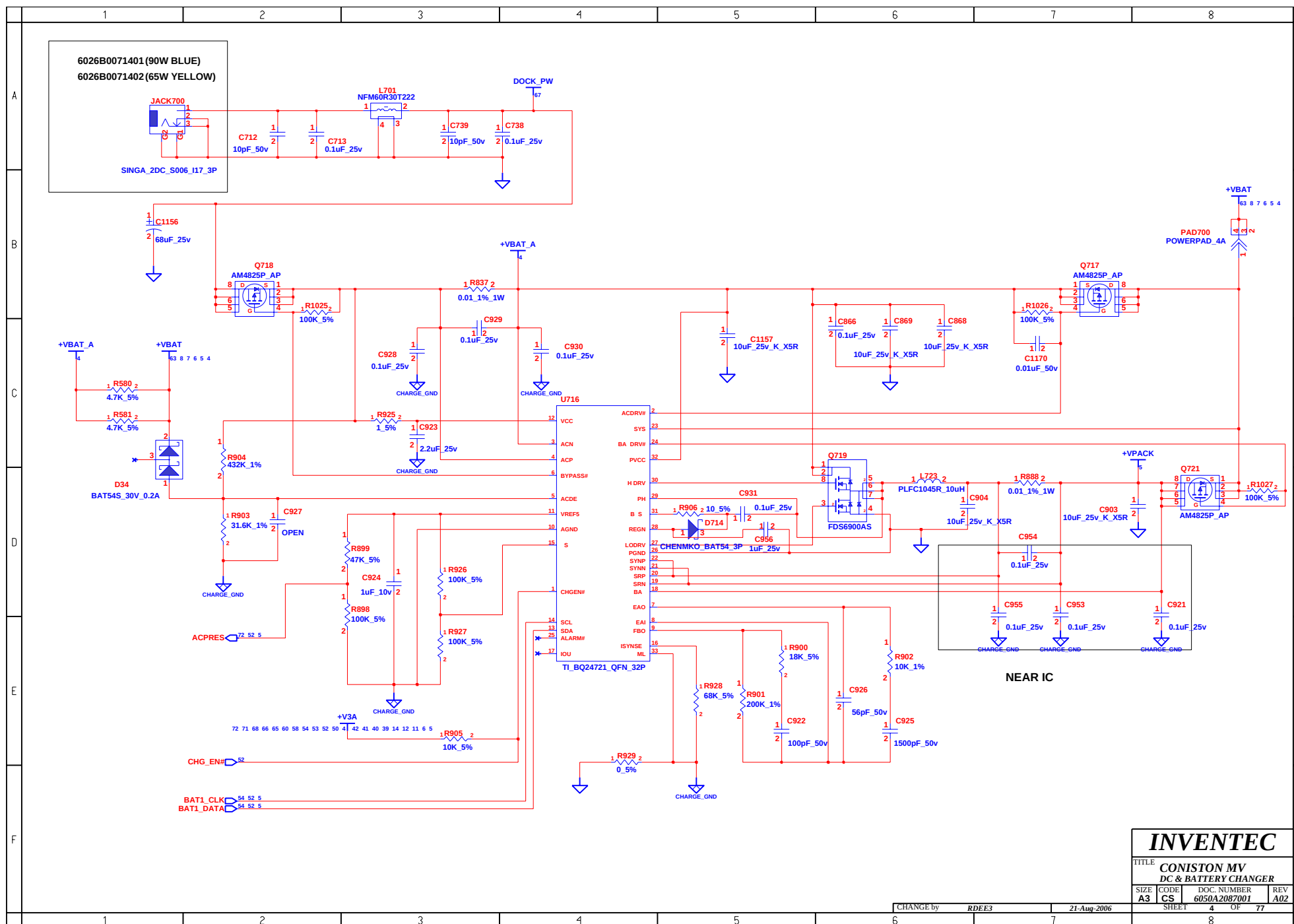
INVENTEC

TITLE **CONISTON MV**
BLOCK DIAGRAM

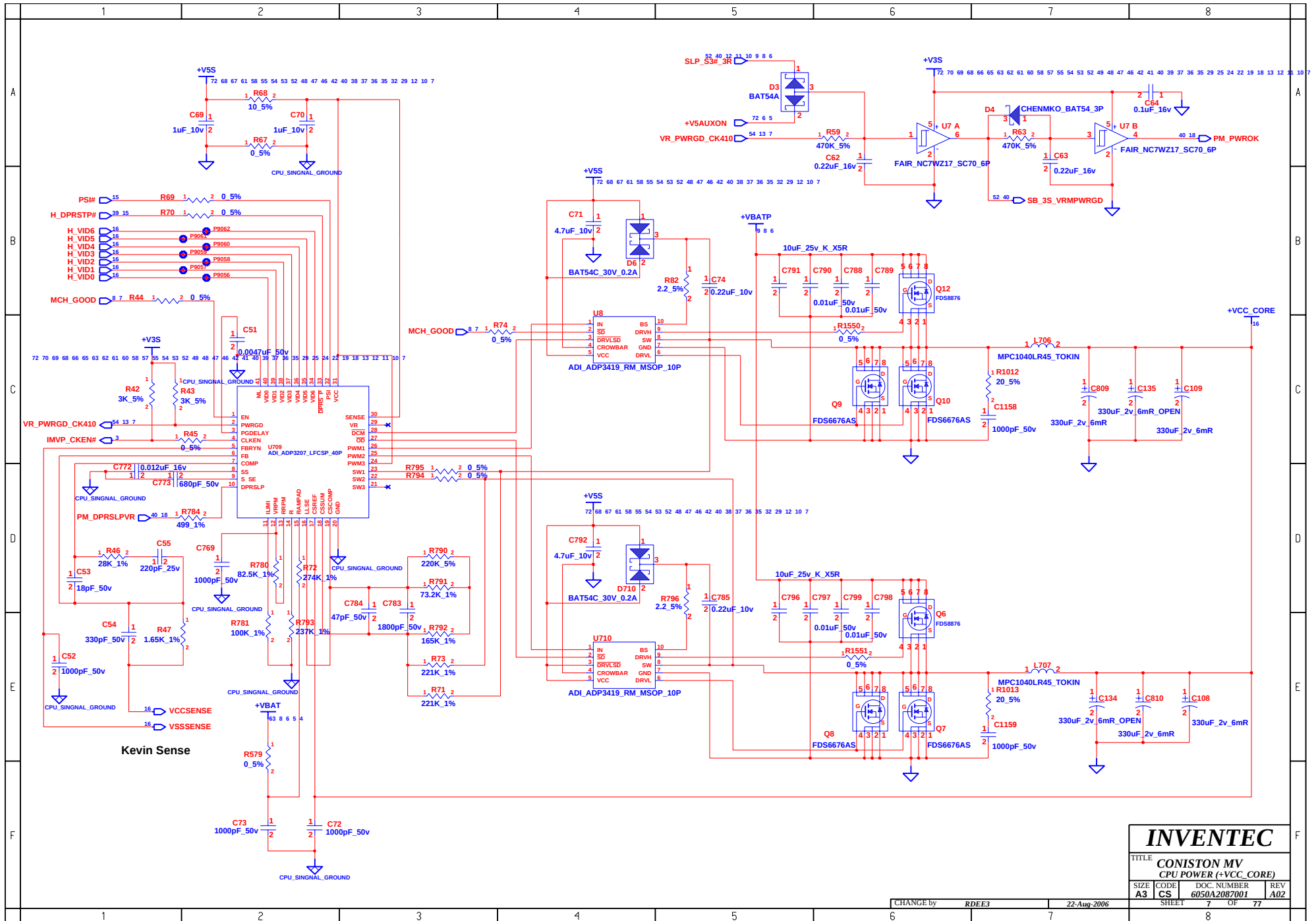
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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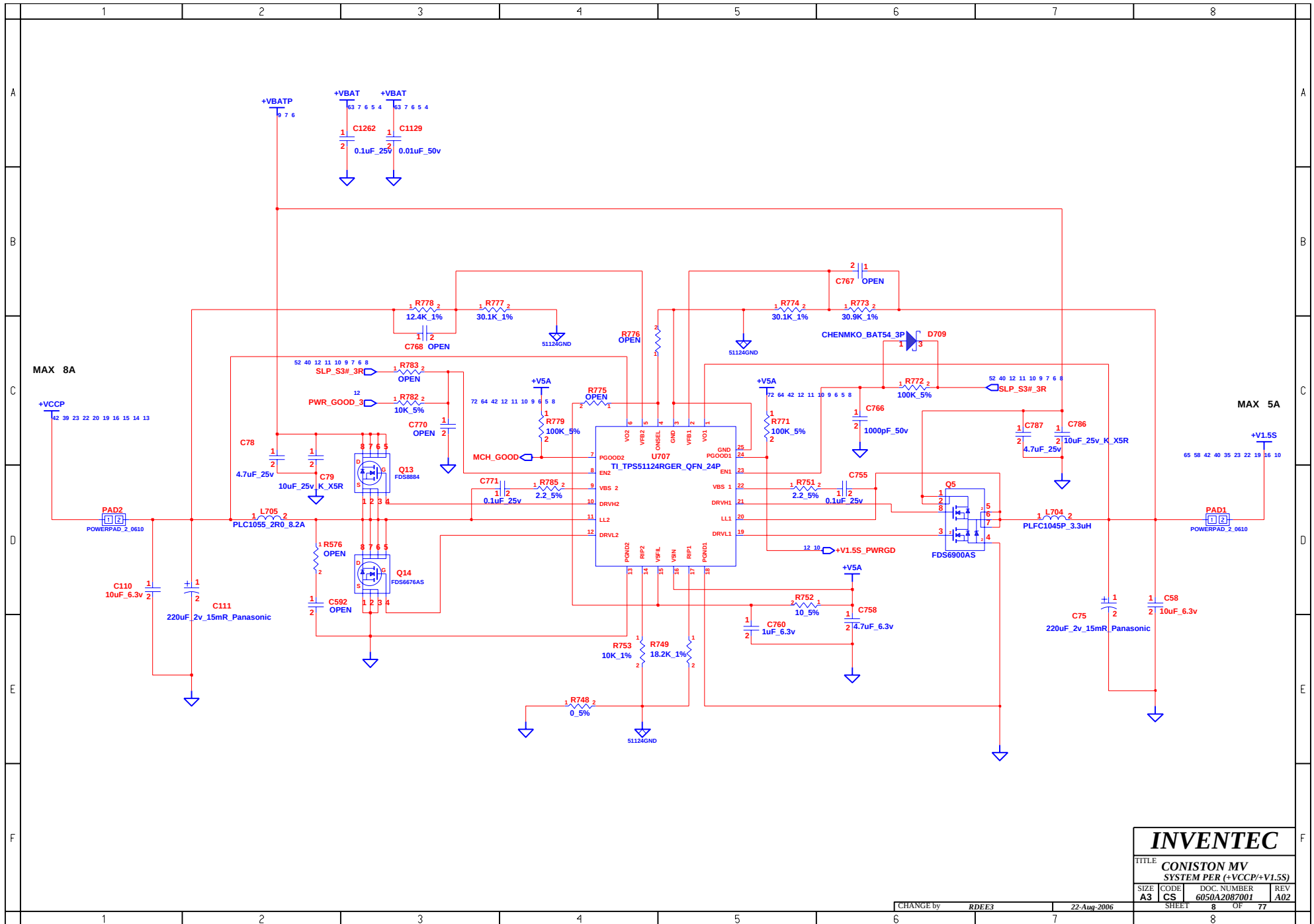
CHANGE by **RDEE3** 21-Aug-2006

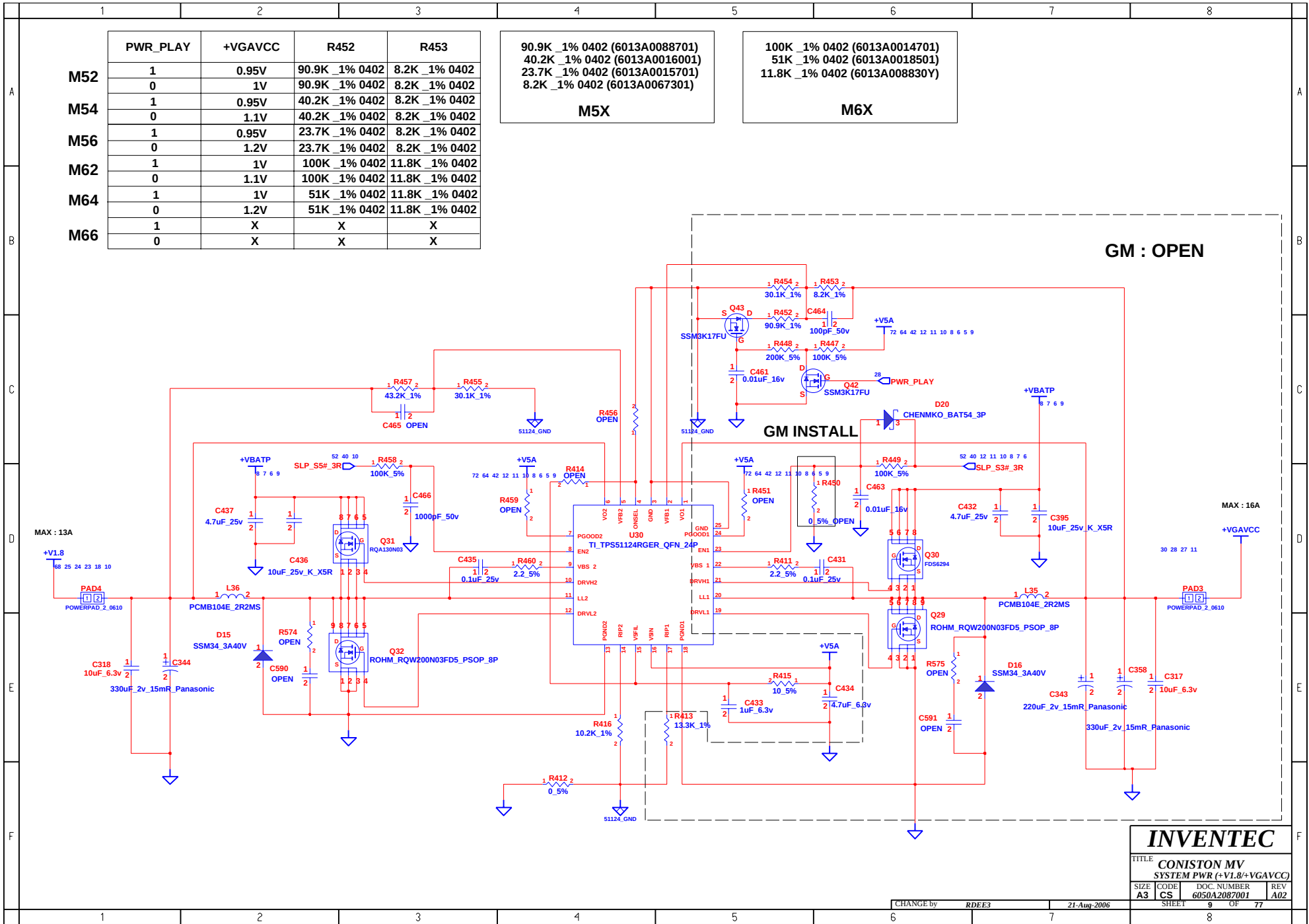
SHEET 2 OF 77

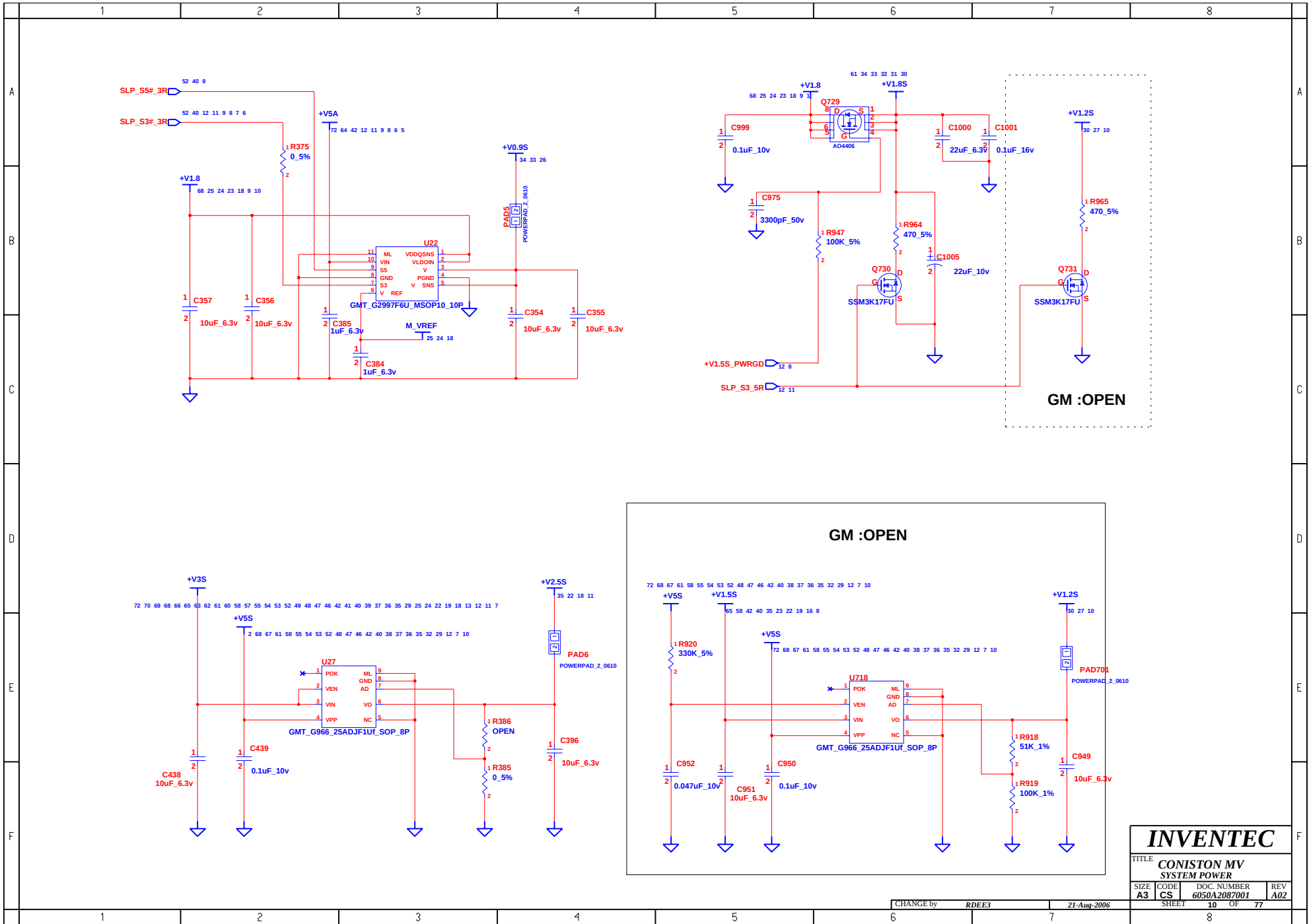




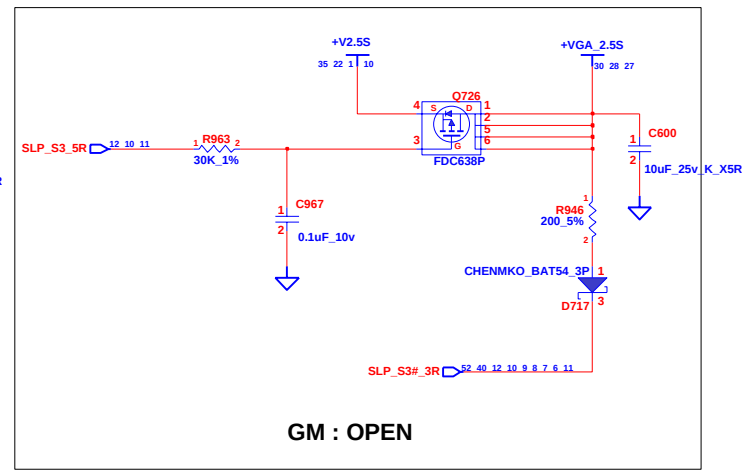
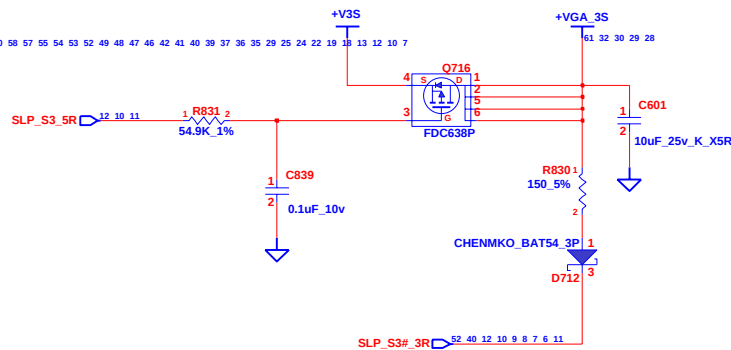
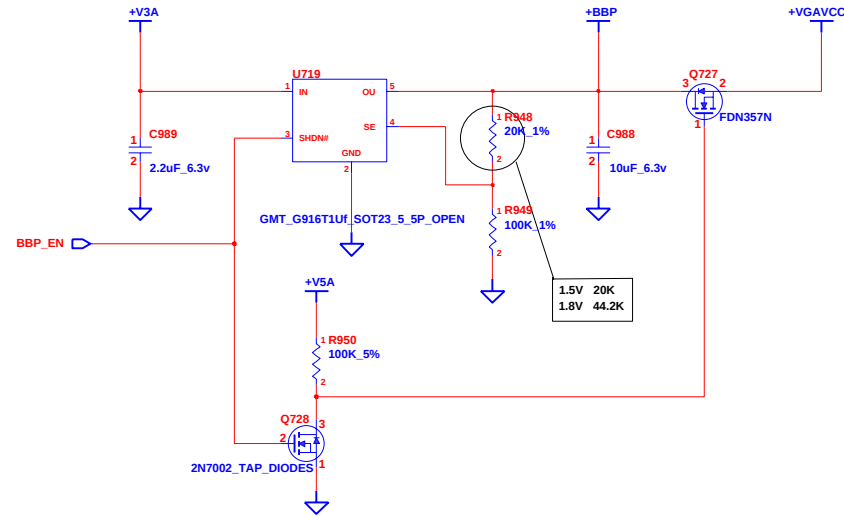








ONLY FOR M56

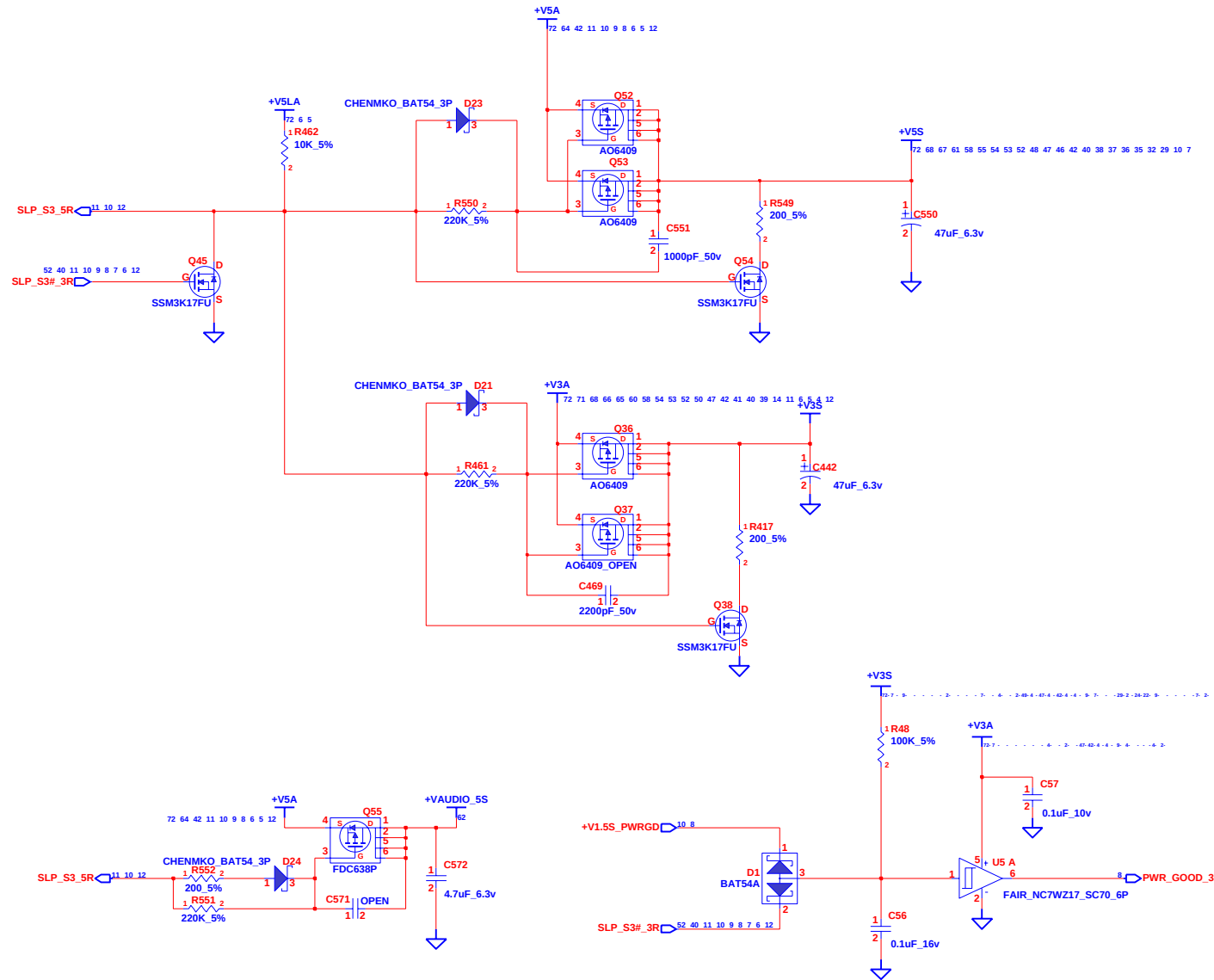


GM : OPEN

INVENTEC

TITLE			
CONISTON MV SYSTEM POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02
SHEET		11	OF 77

CHANGE by	RDEE3	21-Aug-2006
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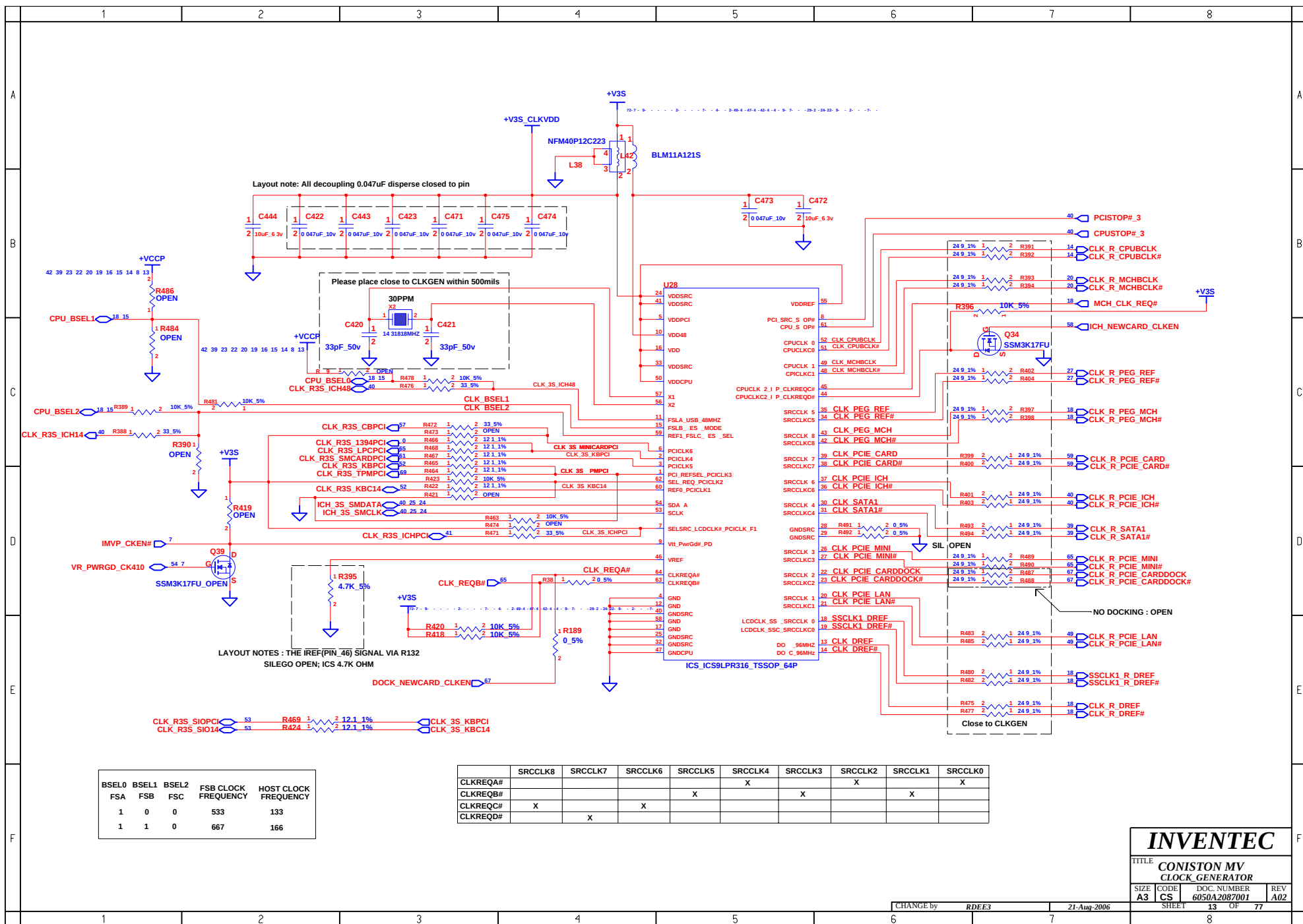


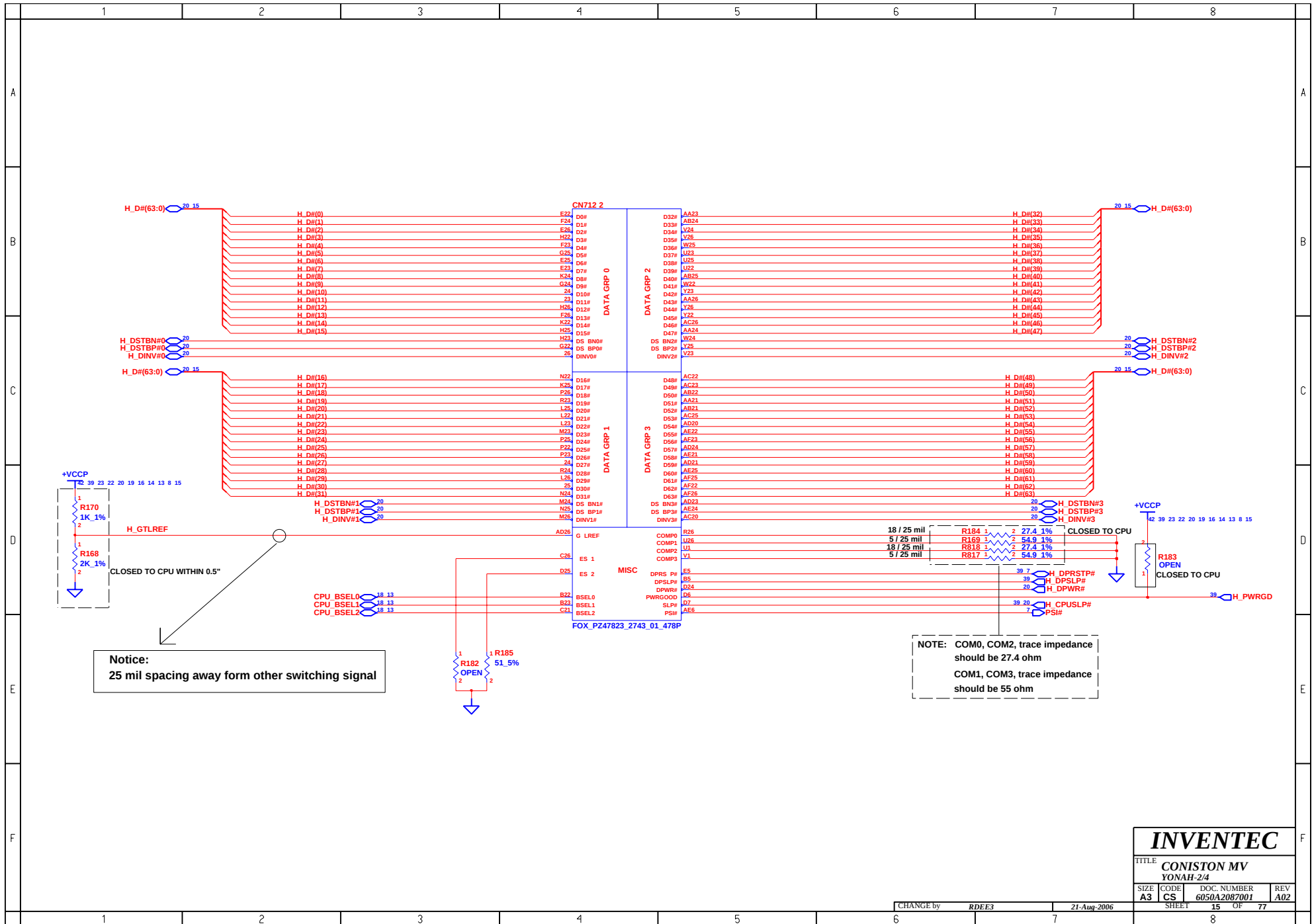
INVENTEC

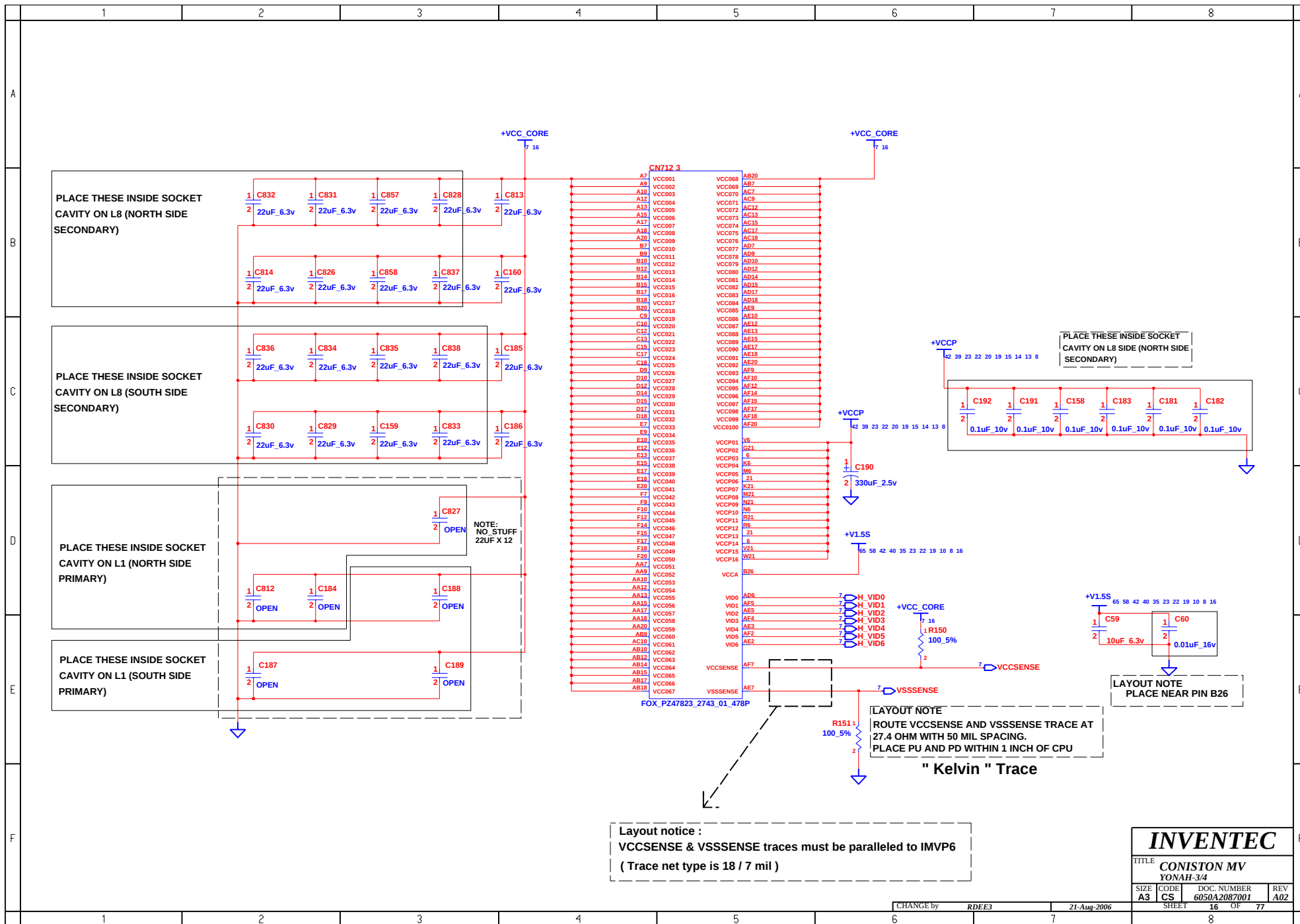
TITLE CONISTON MV SYSTEM POWER			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02

CHANGE by RDEE3 21-Aug-2006

SHEET 12 OF 77







1 2 3 4 5 6 7 8

A

B

C

D

E

F

CN712 4

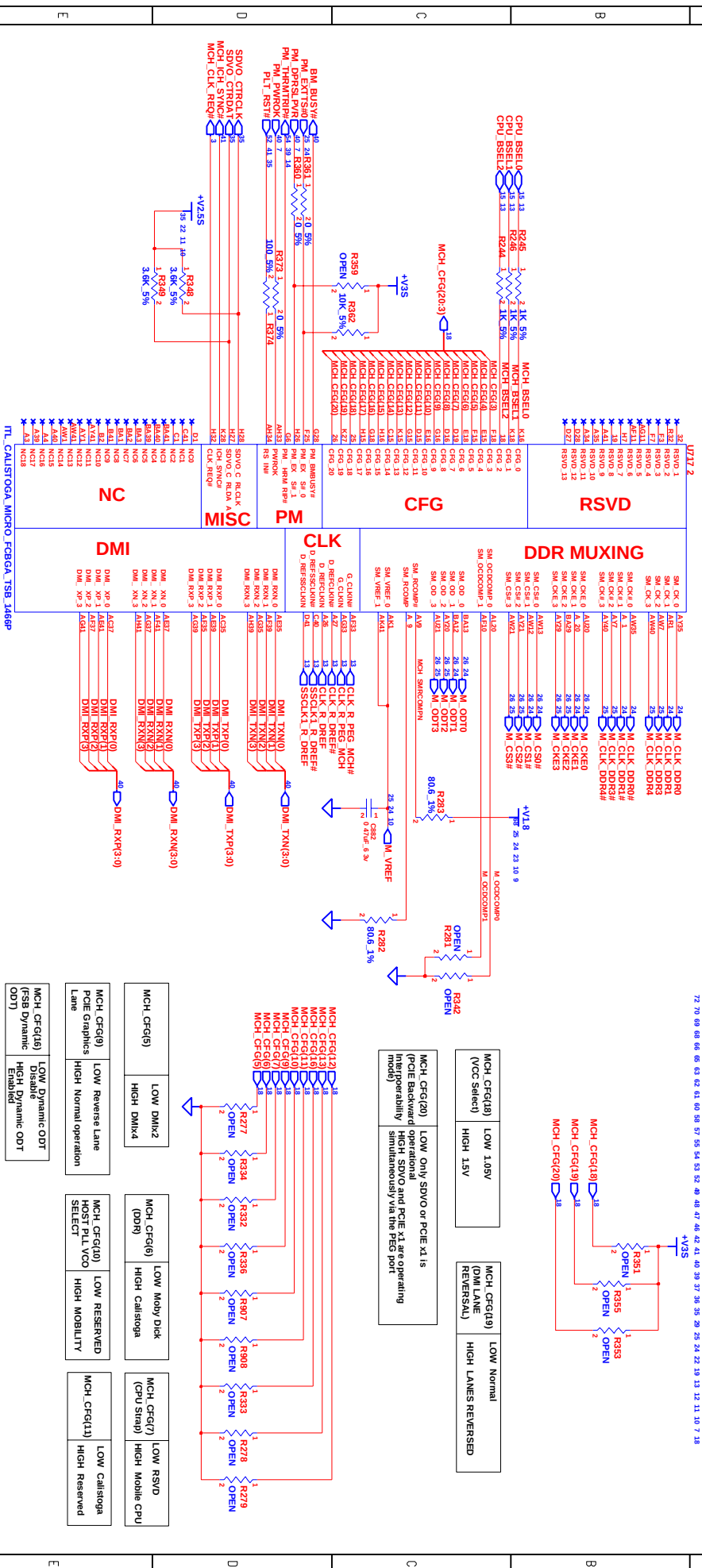
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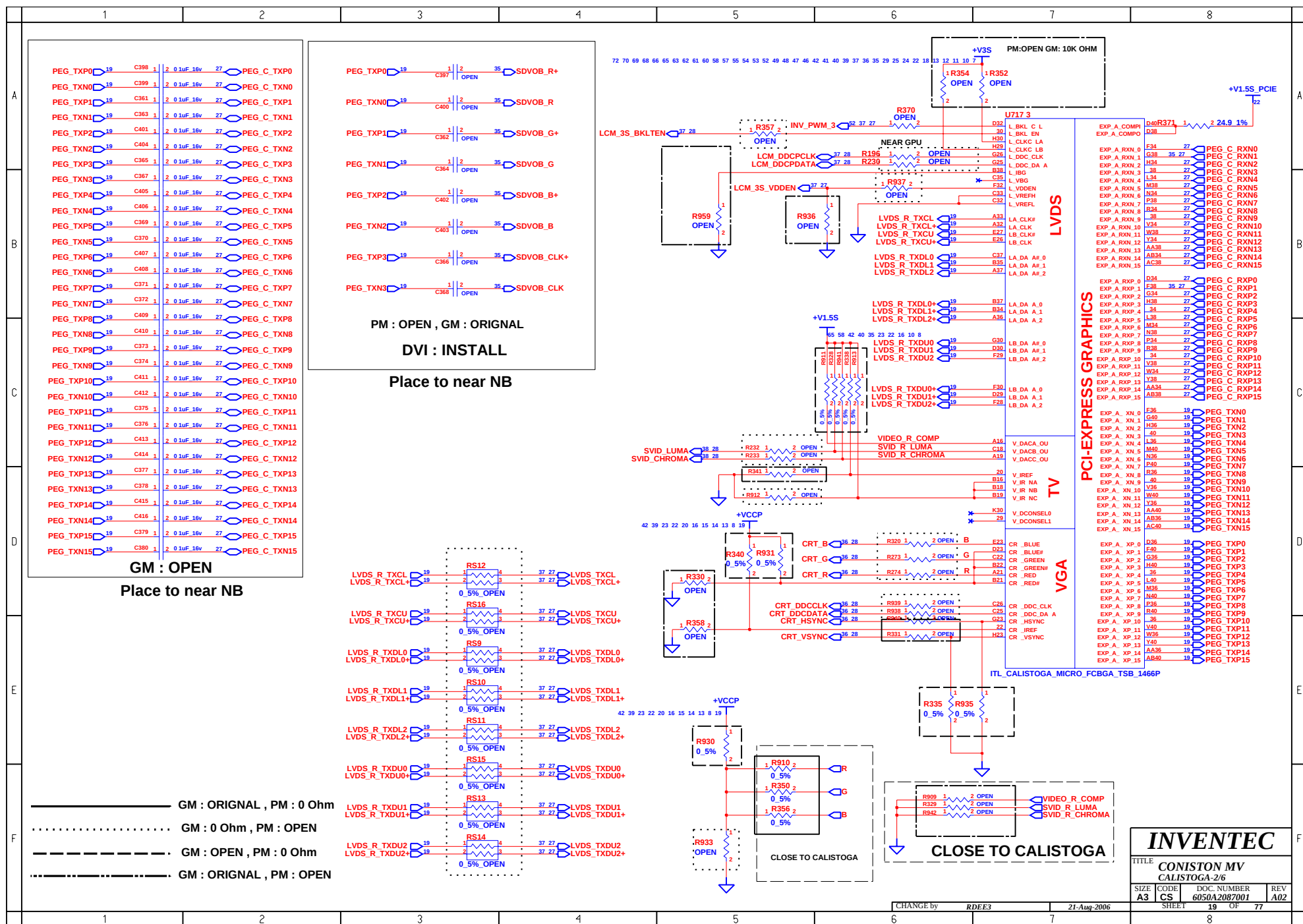
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TITLE			
CONISTON MV			
YONAH-4/4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

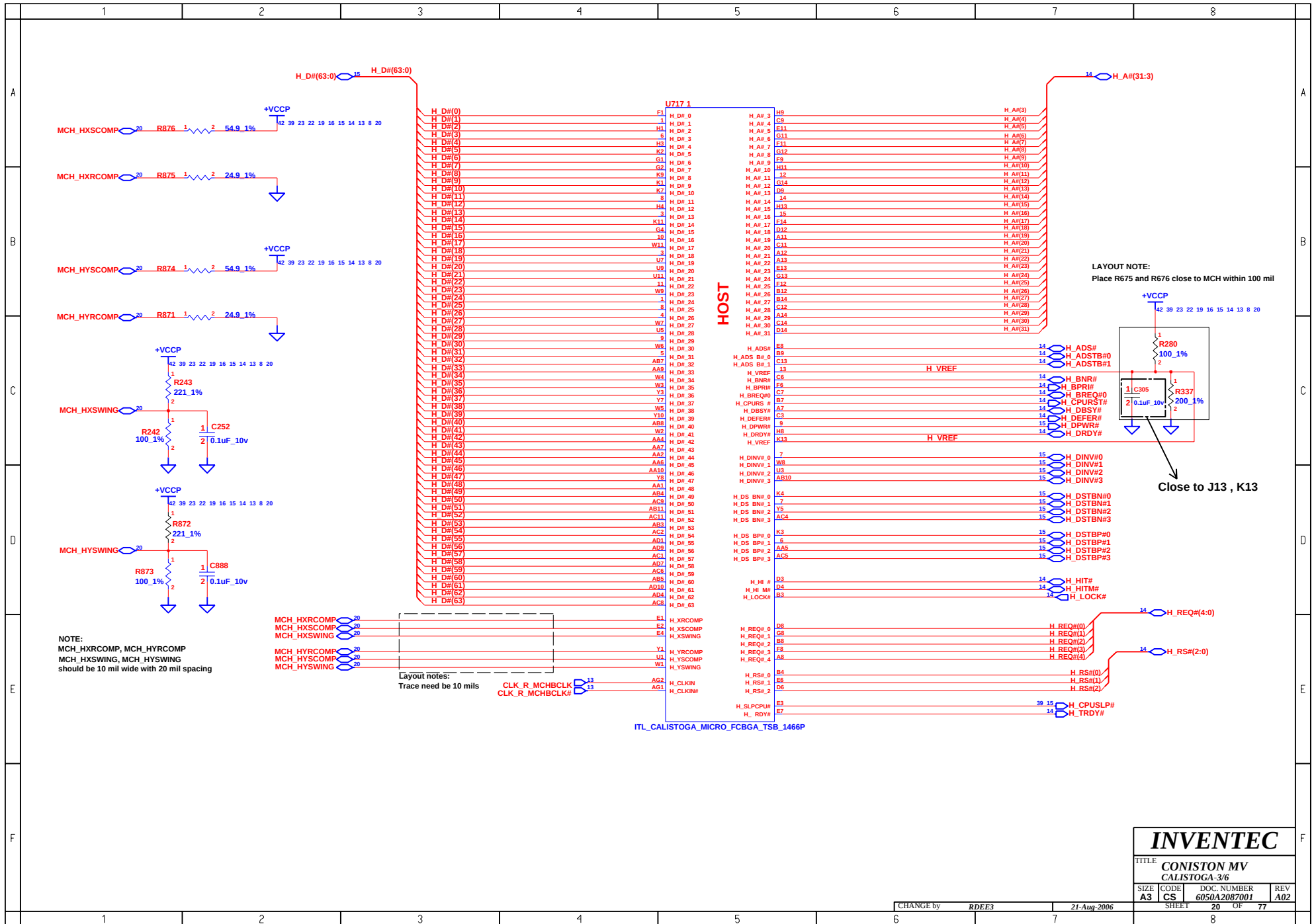
CHANGE by RDEF3 21-Aug-2006

SHEET 17 OF 77

8







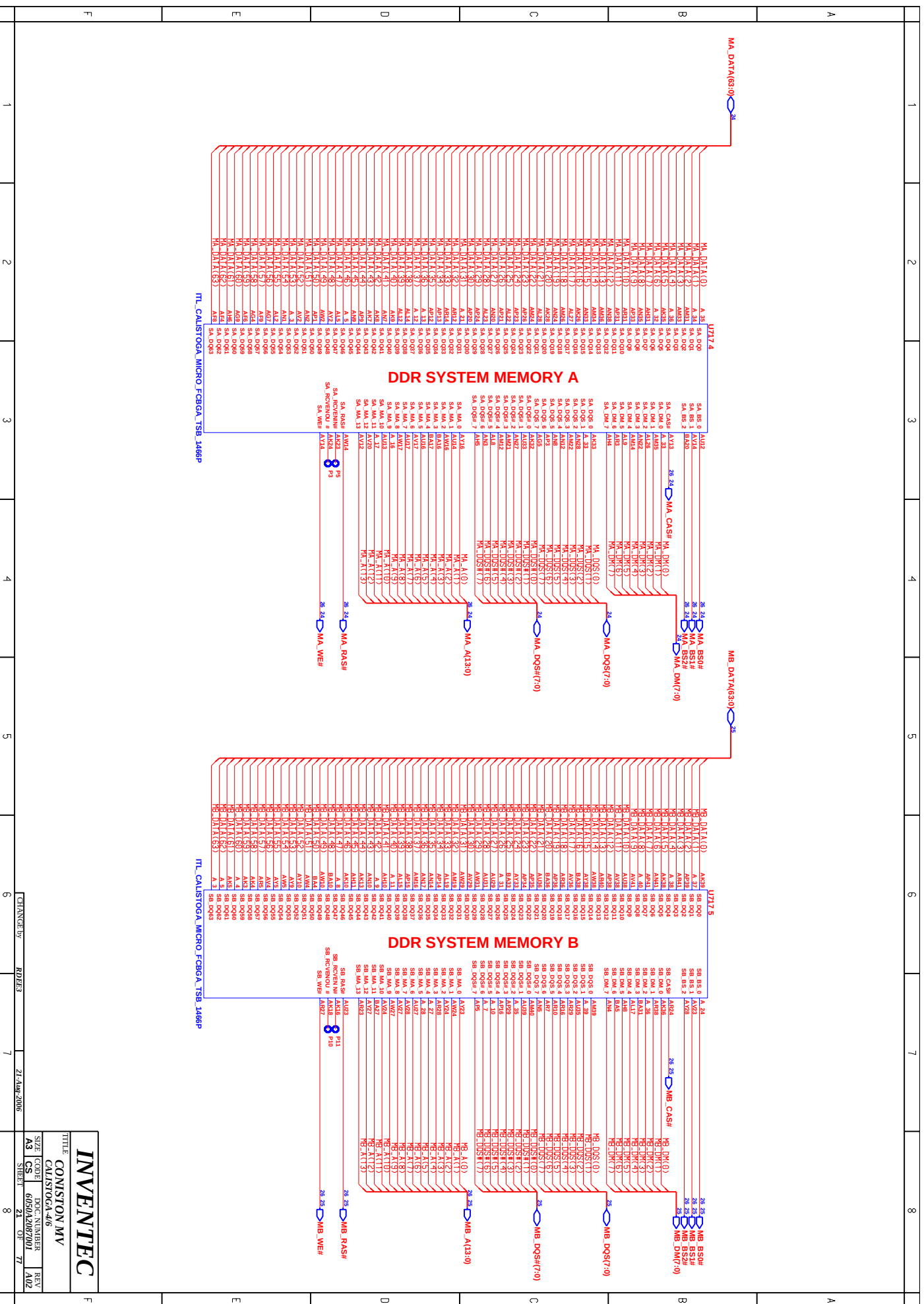
INVENTEC

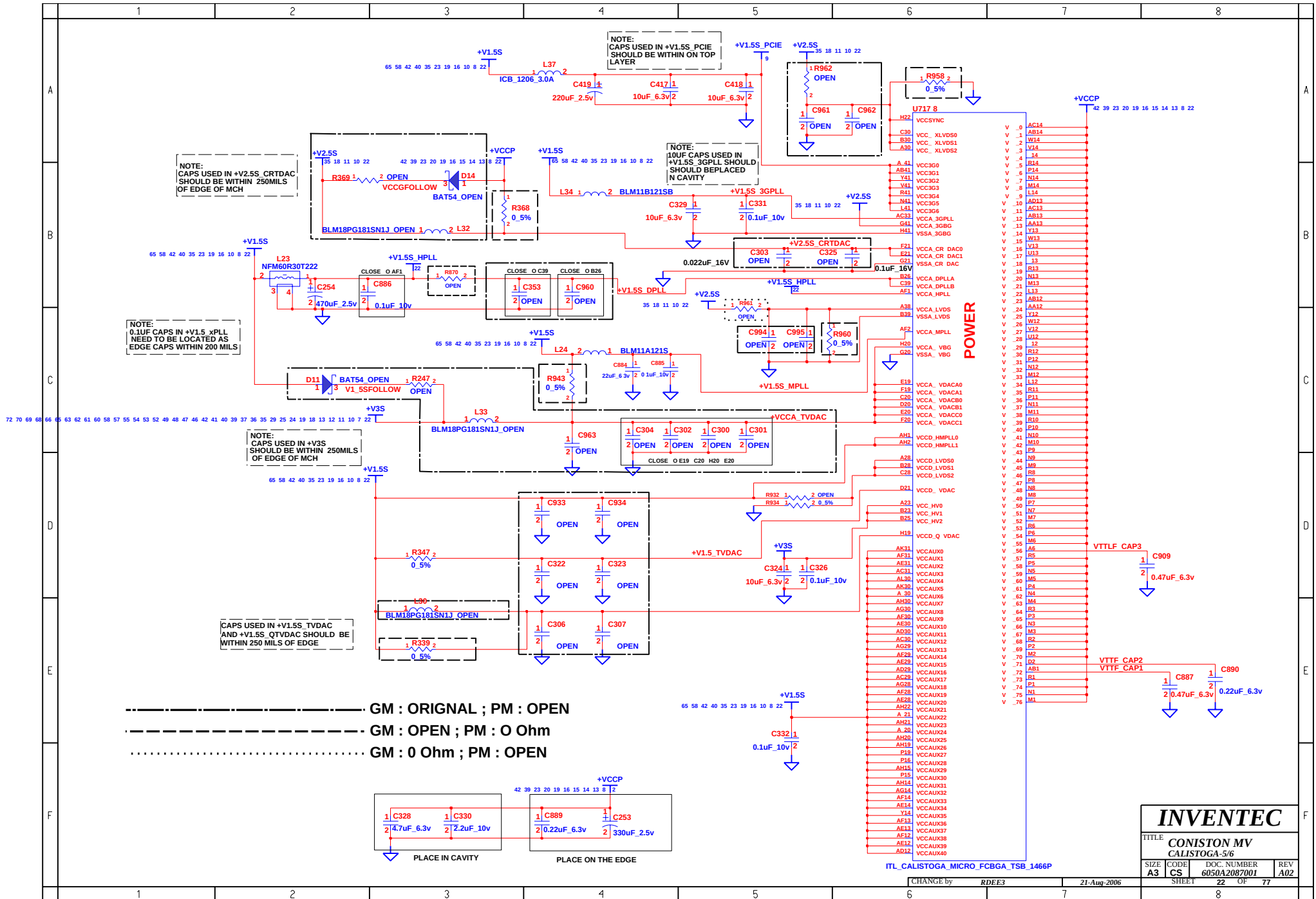
TITLE
CONISTON MV
CALISTOGA-3/6

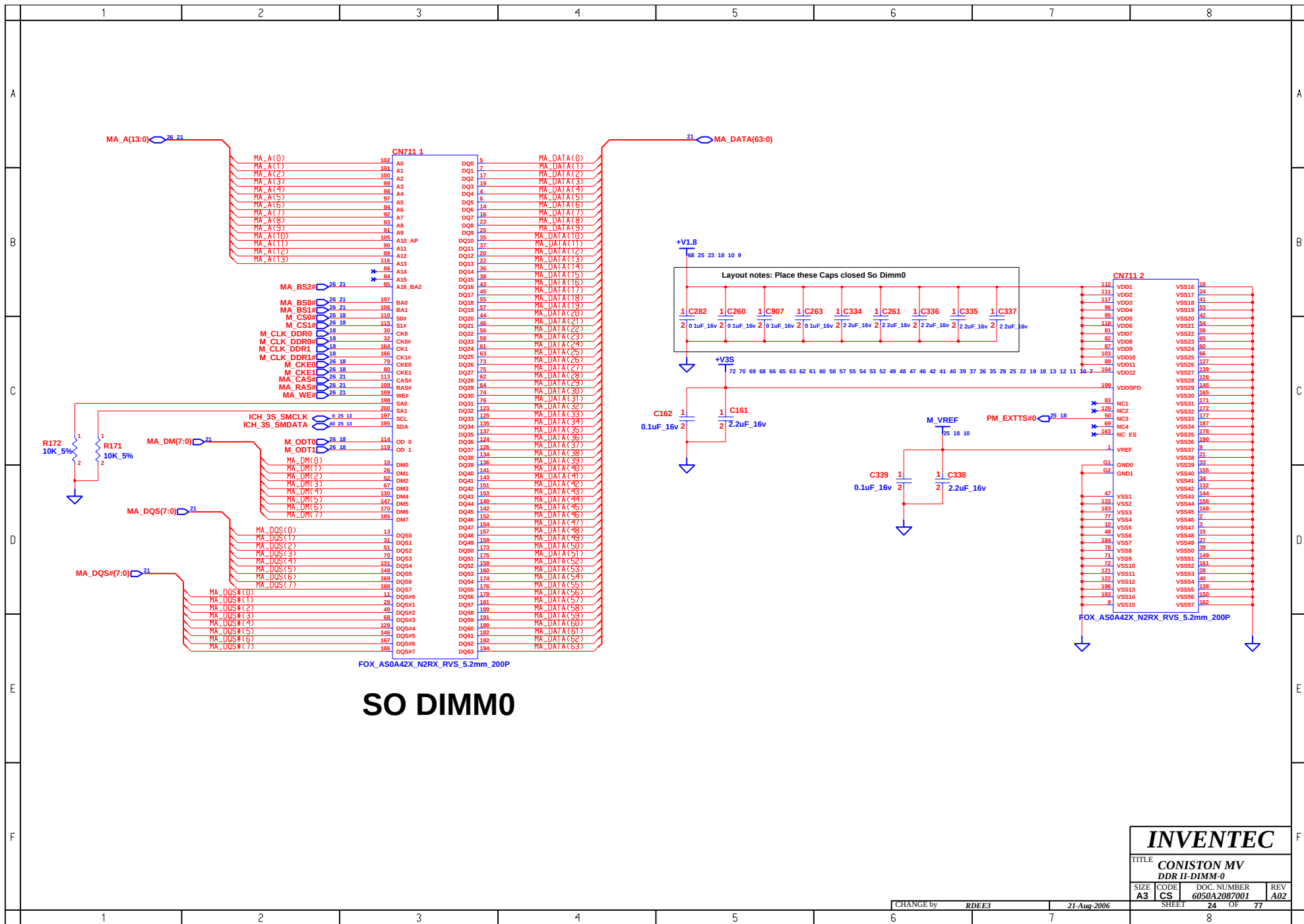
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by RDEE3 21-Aug-2006

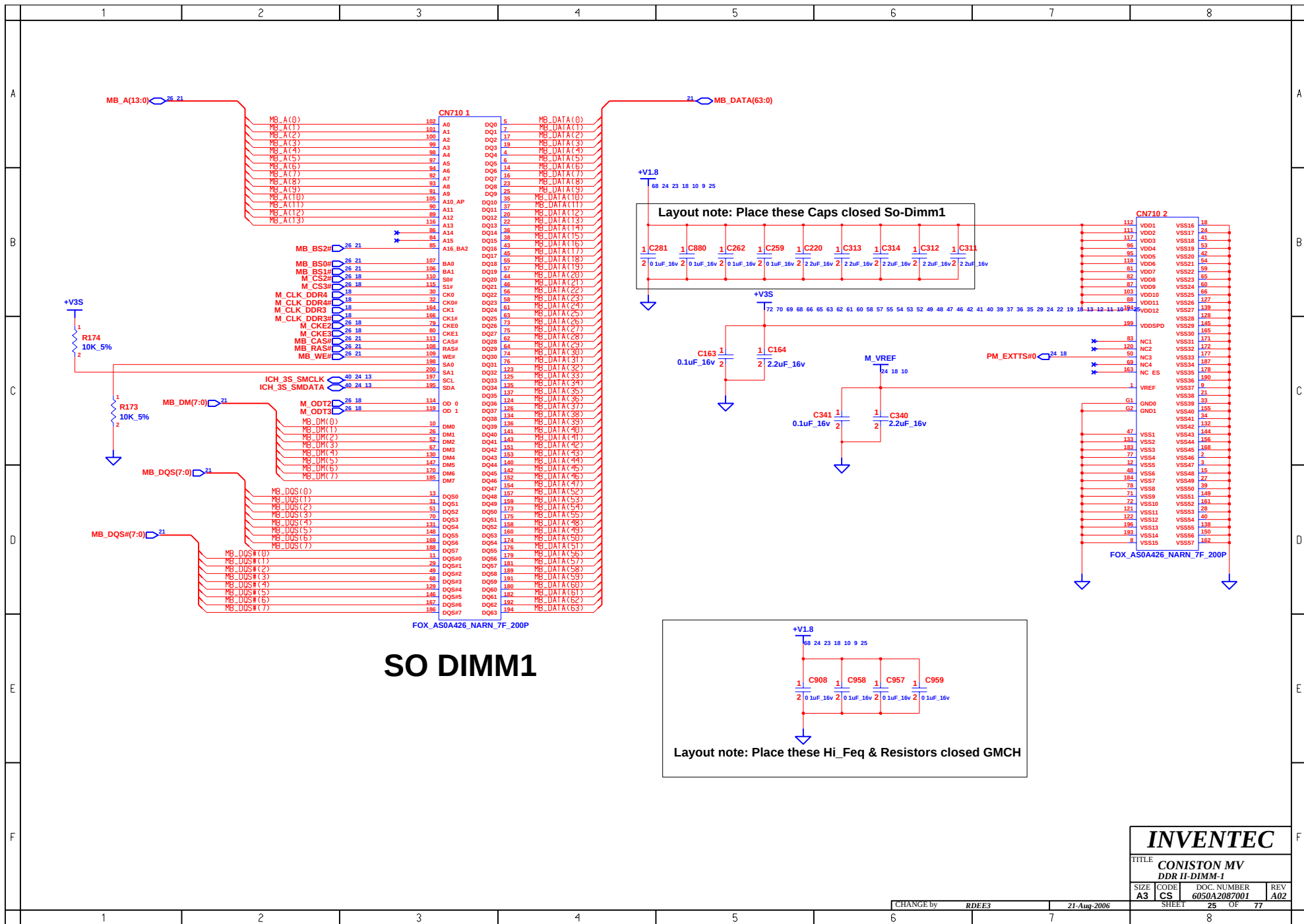
SHEET 20 OF 77







INVENTEC			
TITLE CONISTON MV DDR II-DIMM-0			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 24		OF 77	





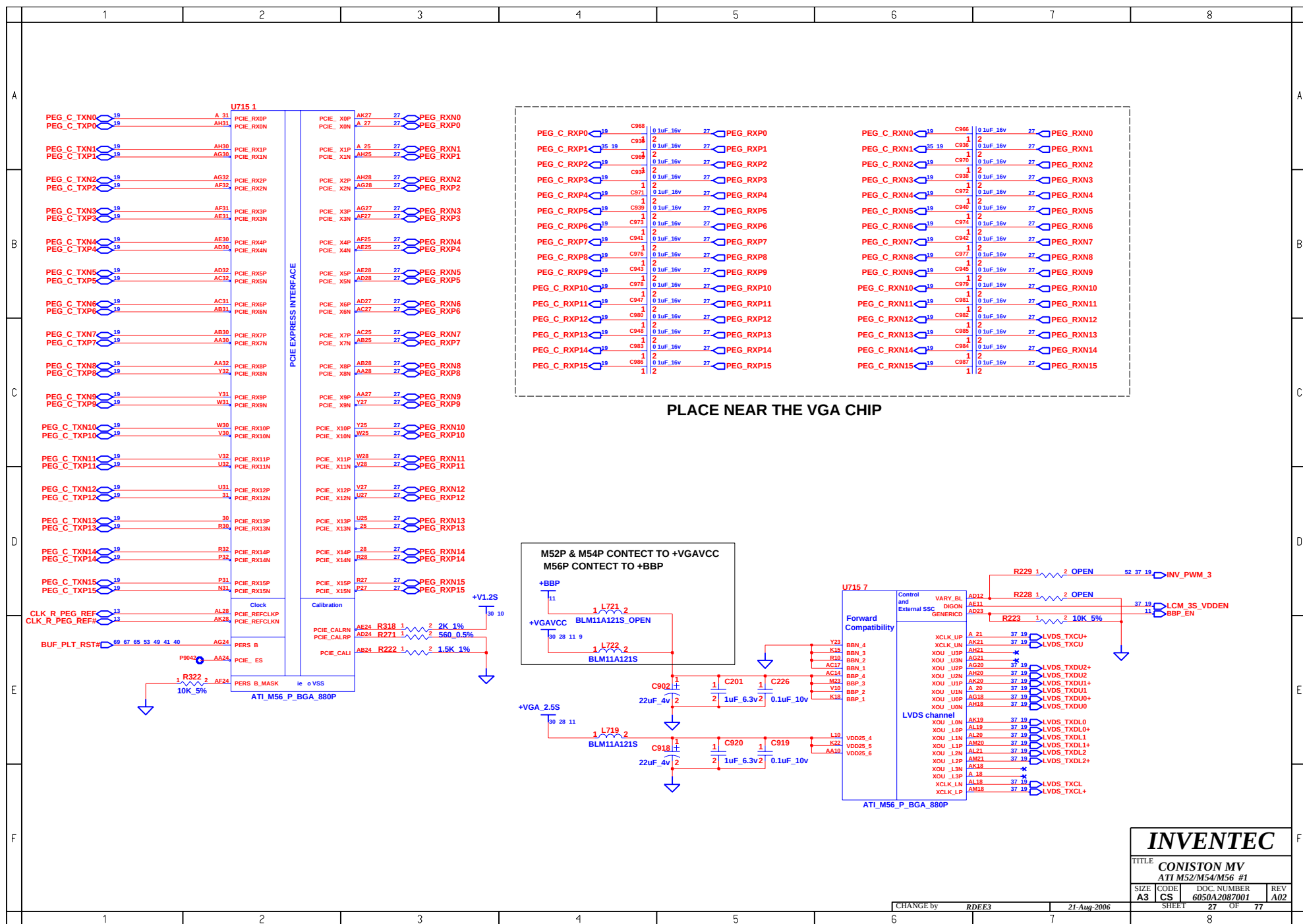
INVENTEC

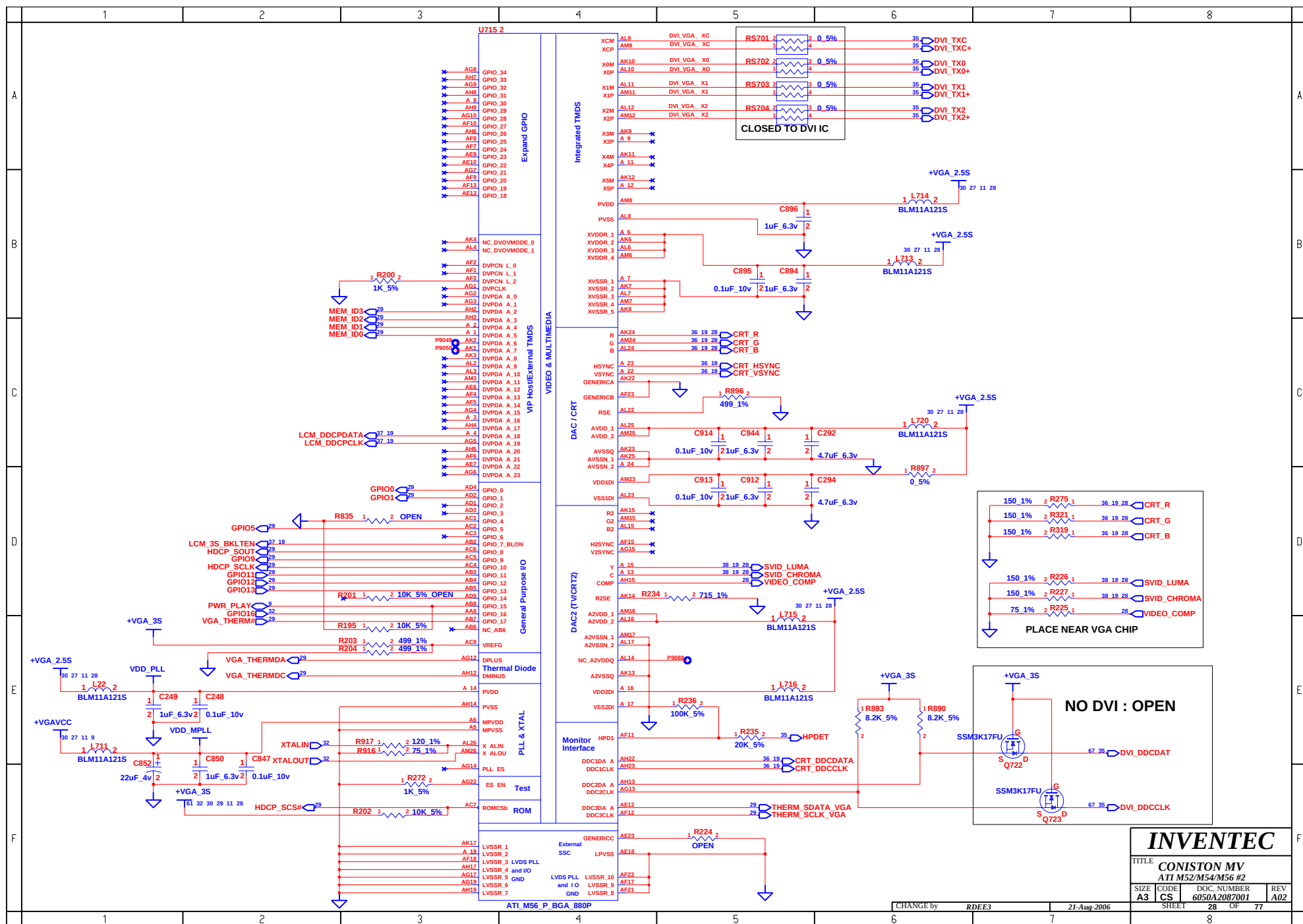
TITLE	CONISTON MV DDR II-DAMPING
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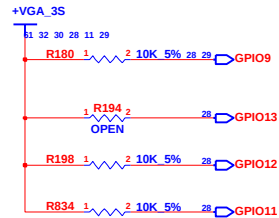
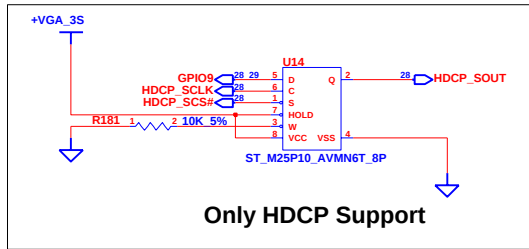
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by	<i>RDEE3</i>	21-Aug-2006
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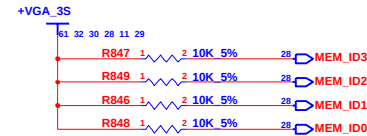
CS	6050A2087001
SHEET	26 OF 71





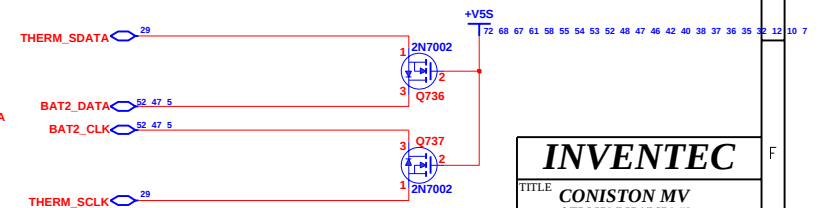
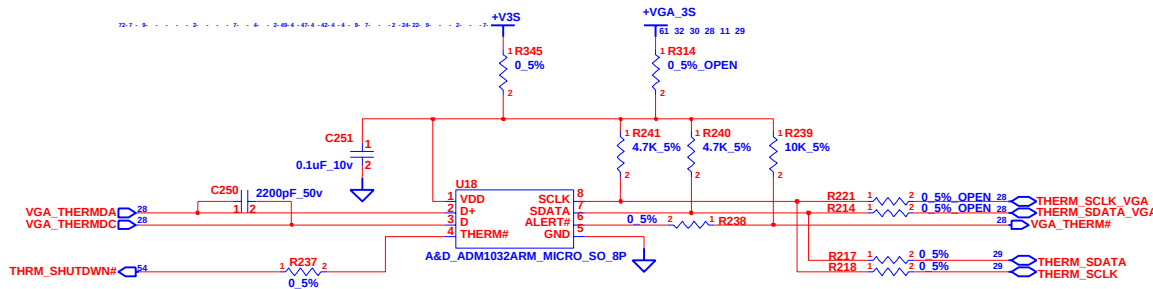


GPIO9,(13 11)	M56 VMEM CFG9,(11 13)-Memory Type
000X	NO ROM, MEM AP SIZE=00(128M)
001X	NO ROM, MEM AP SIZE=01(256M)
010X	NO ROM, MEM AP SIZE=10(64M)
011X	NO ROM, MEM AP SIZE=11(RESERVER)
ROM attached	GPIO(13 12) memory aperture size
1011	1M serial M25P10 ROM



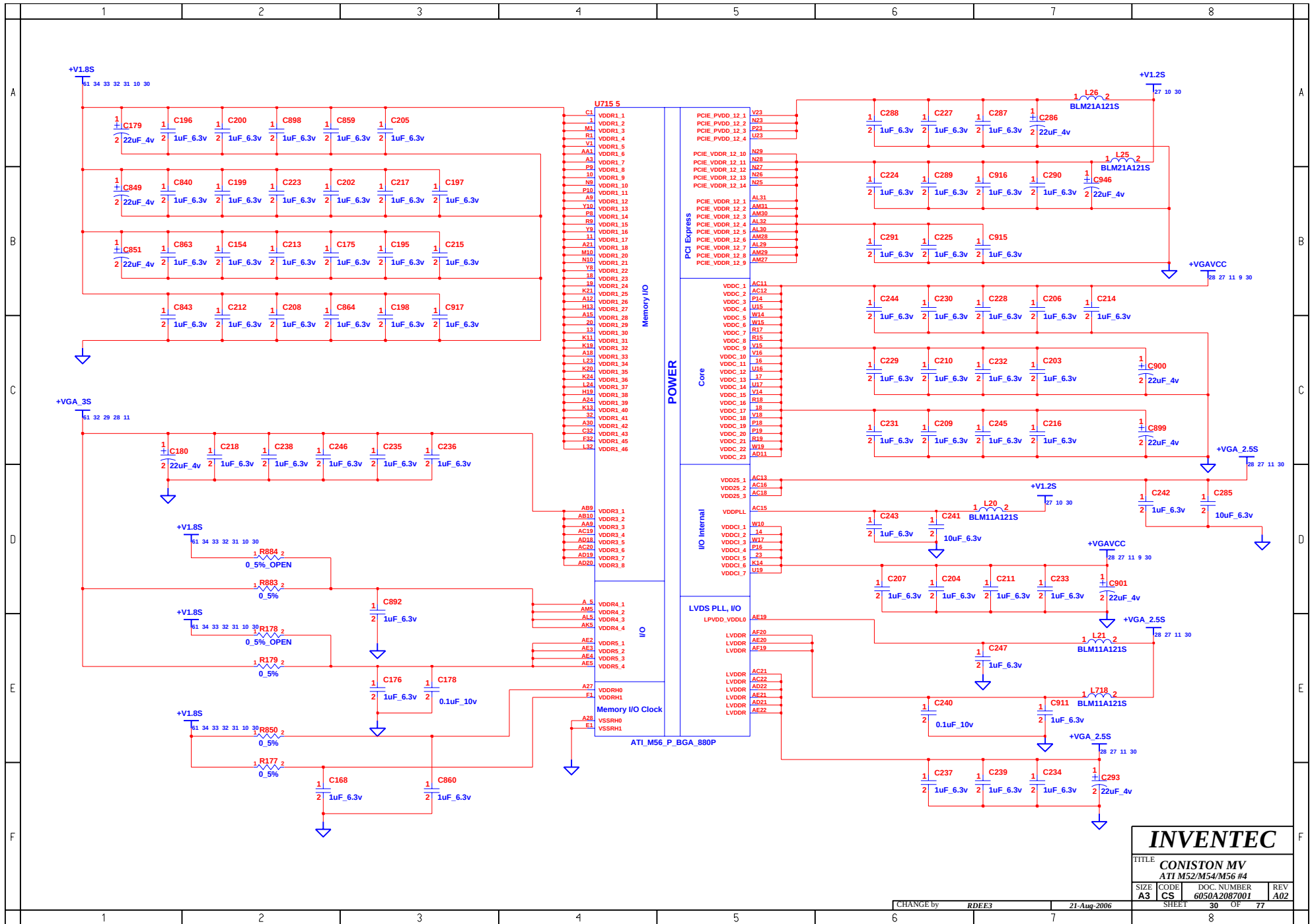
MEM_ID(3 0)	M56VMEM_CFG(3 0)-Memory Type
00h	SAMSUNG 16M x 16 (64MB)
01h	SAMSUNG 16M x 16 (128MB)
02h	TBD
03h	TBD
04h	Hynix 16M x 16 (64MB)
05h	Hynix 16M x 16 (128MB)
06h	TBD
07h	TBD
08h	Infineon 16M x 16 (64MB)
09h	Infineon 16M x 16 (128MB)
0Ah	TBD
0Bh	TBD
0Ch	SAMSUNG 32M x 16 4pcs(256MB)
0Dh	Hynix 32M x 16 4 pcs(256MB)
0Eh	Infineon 32M x 16 4 pcs(256MB)
0Fh	TBD

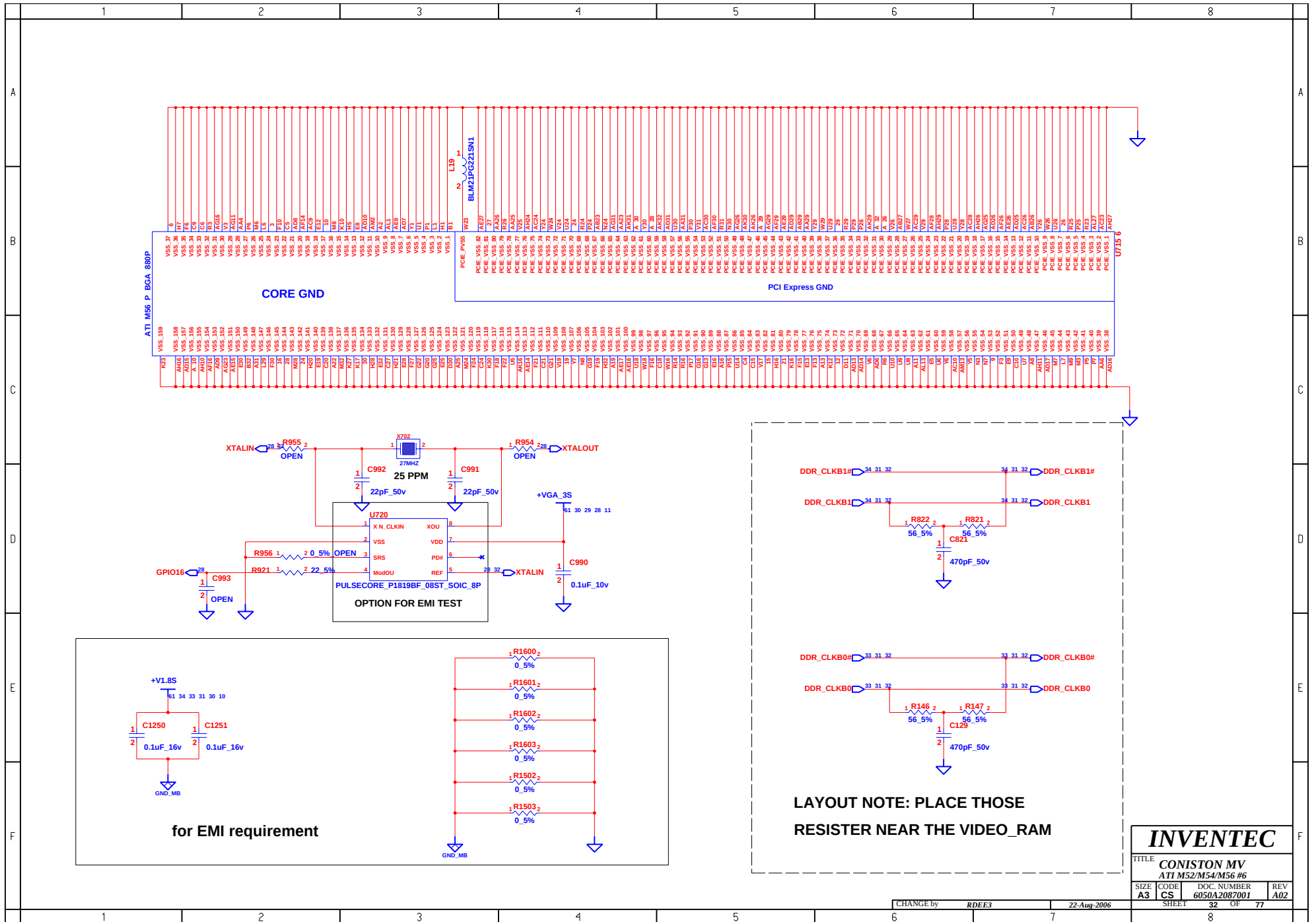
GPIO(0)
Transmitter Power Savings Enable
0 50 % Tx output swing
1 Full Tx output swing
GPIO(1)
Transmitter De-emphasis Enable
0 Tx de-emphasis disabled
1 Tx de-emphasis enable

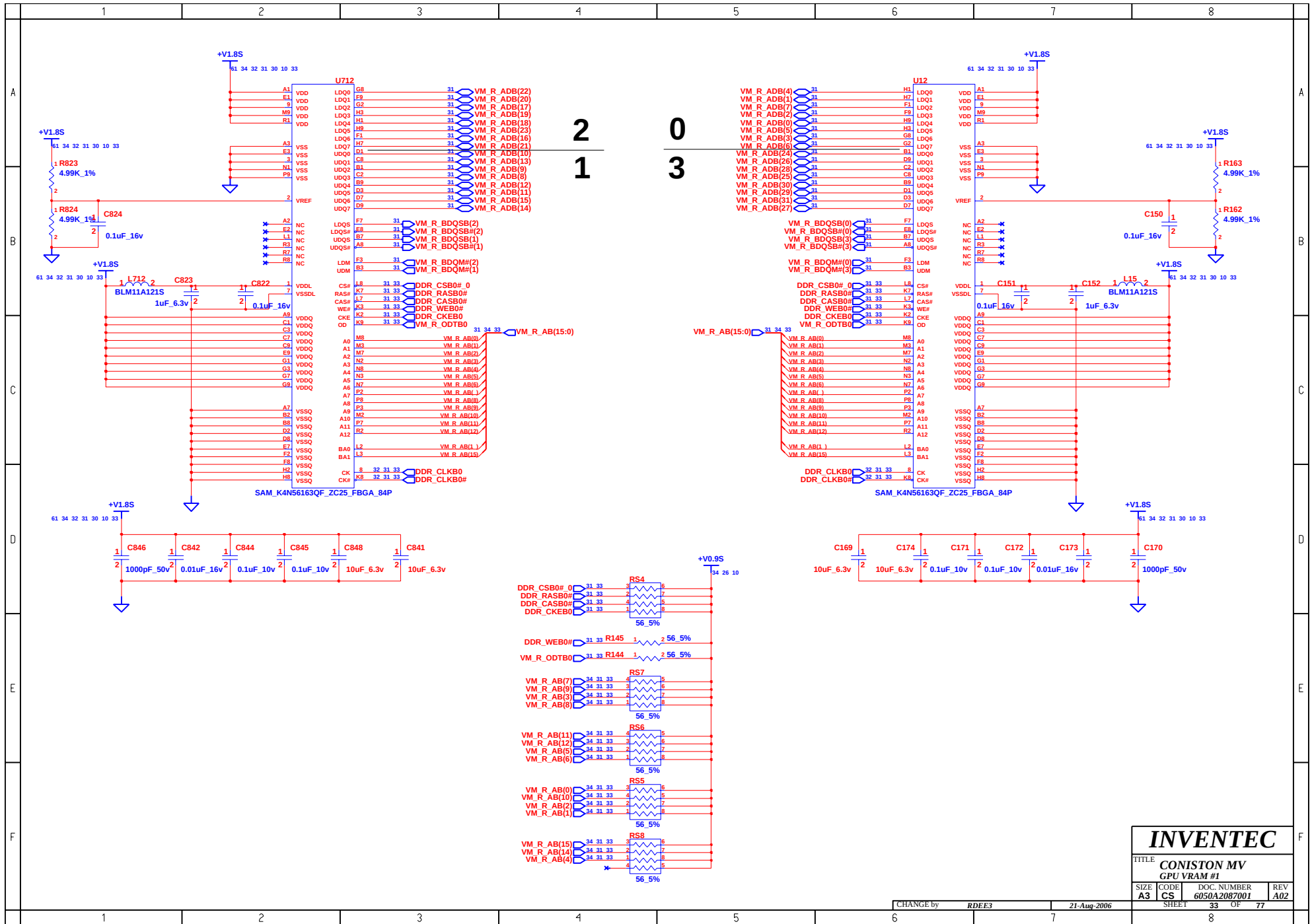


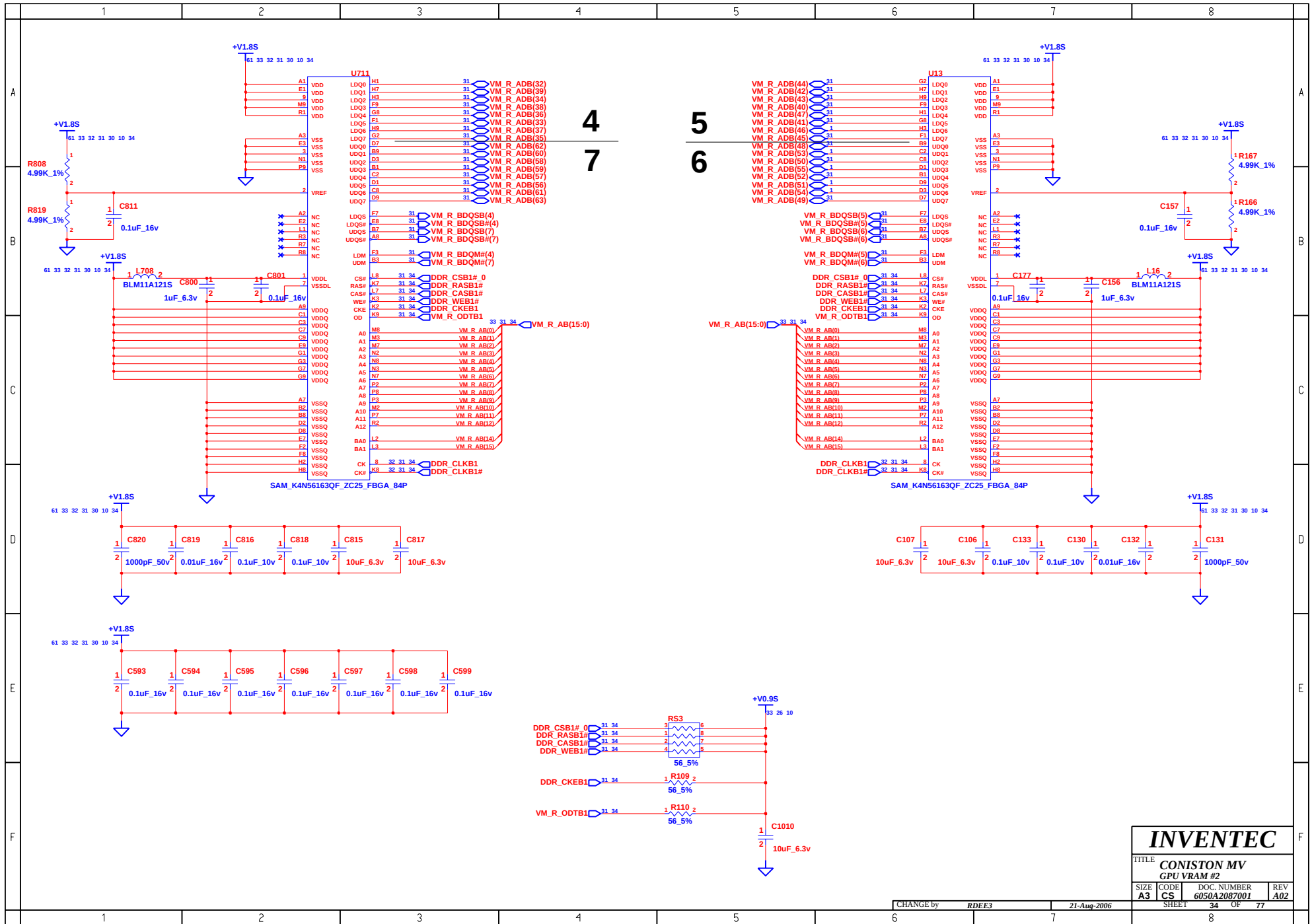
INVENTEC			
TITLE CONISTON MV ATI M52/M54/M56 #3			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 29		OF 77	

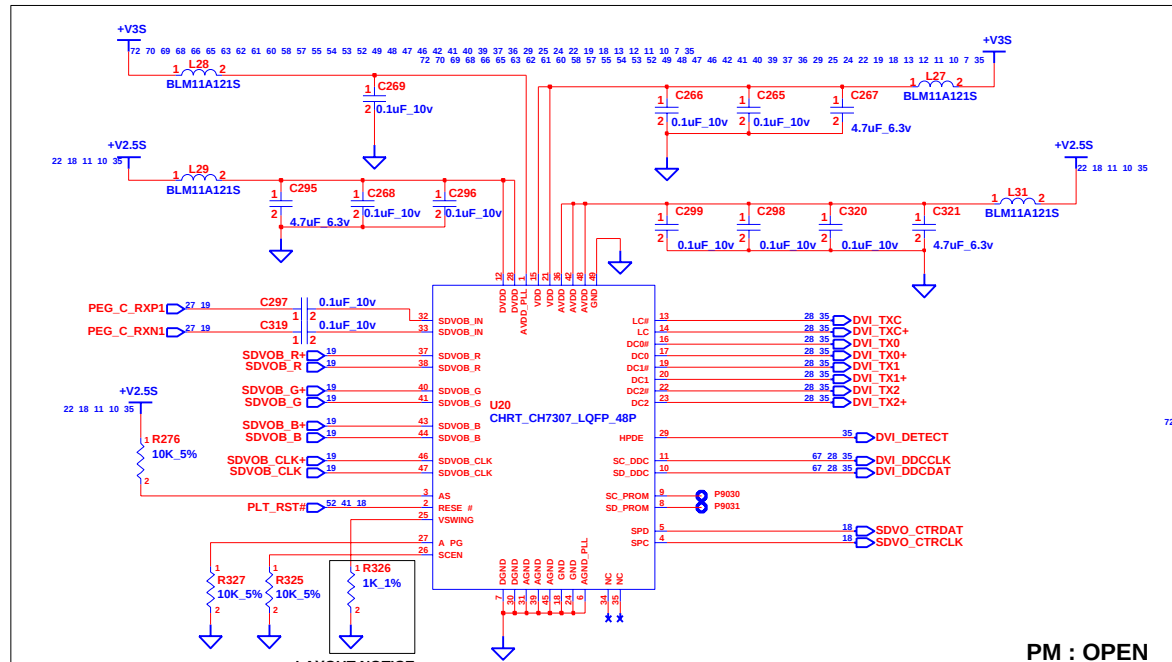
CHANGE by RDEE3 21-Aug-2006





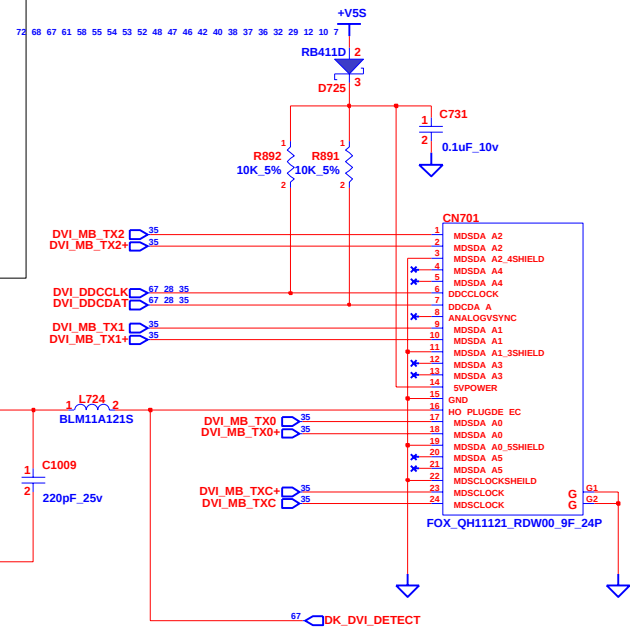
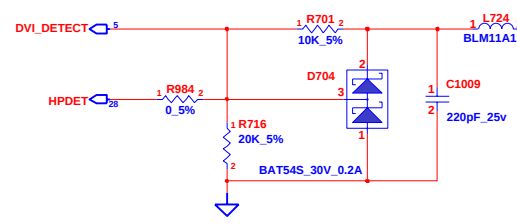
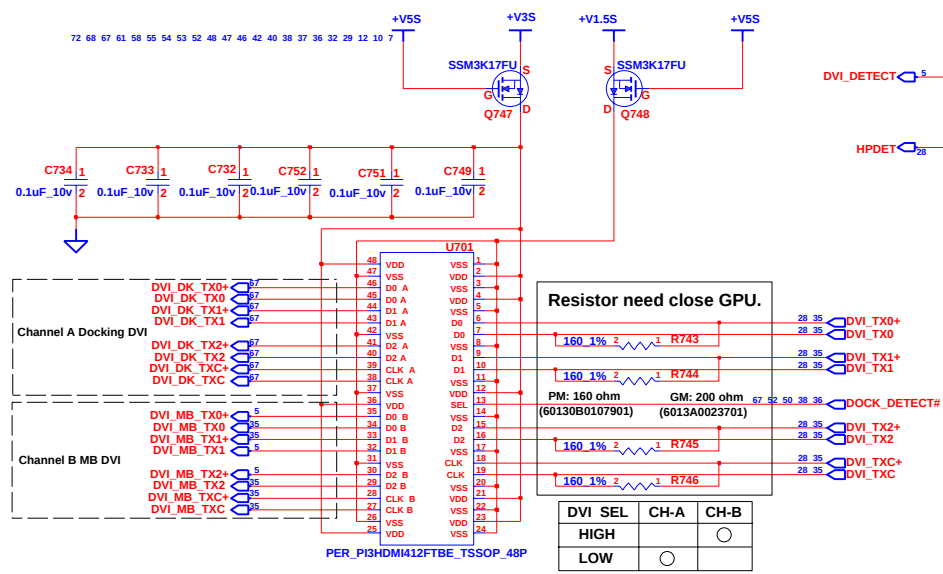
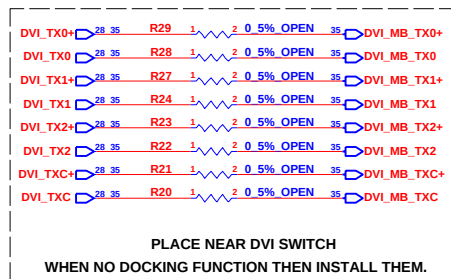






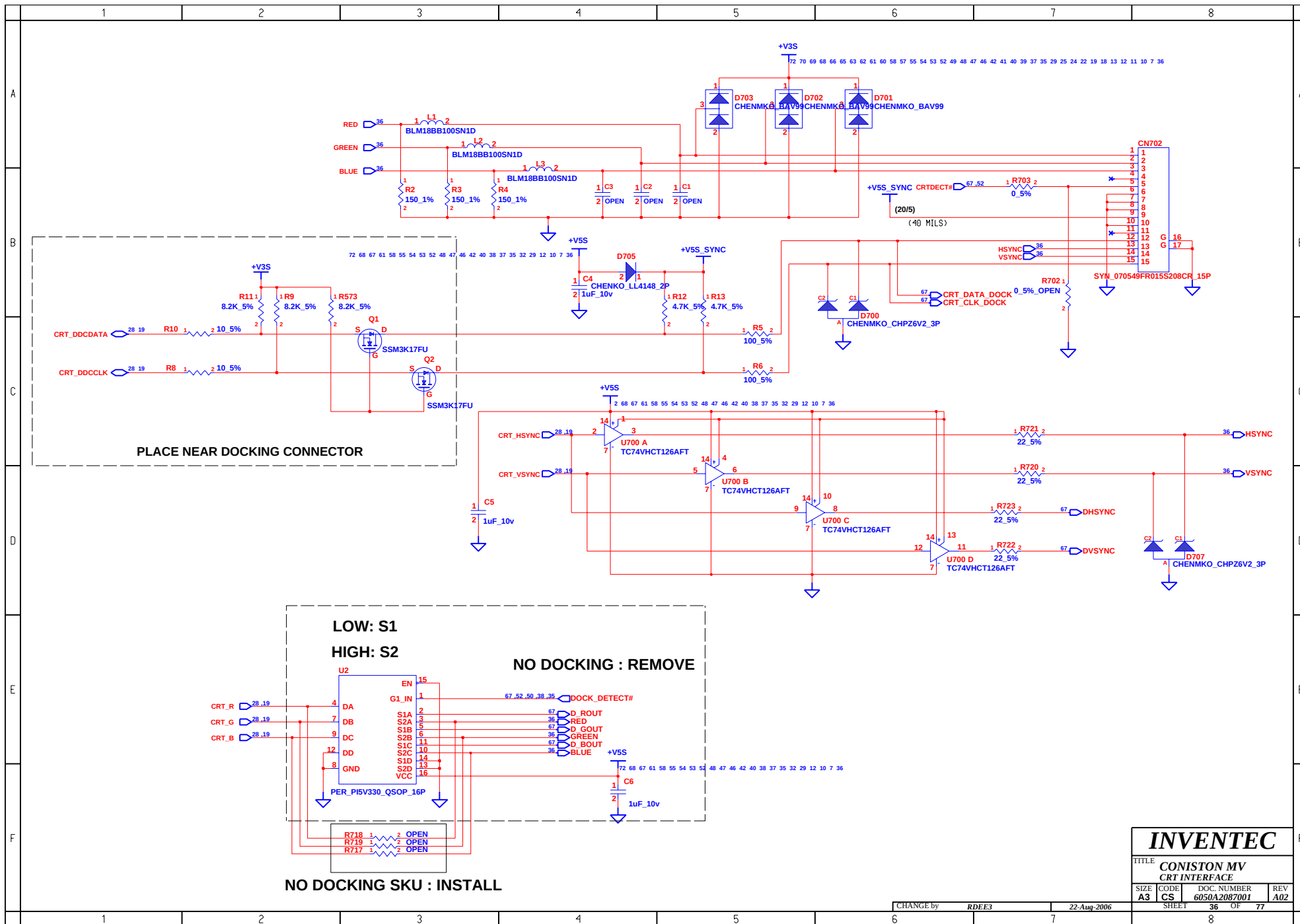
LAYOUT NOTICE:
Using short be connected between this pin and TGND
using short and wide traces.

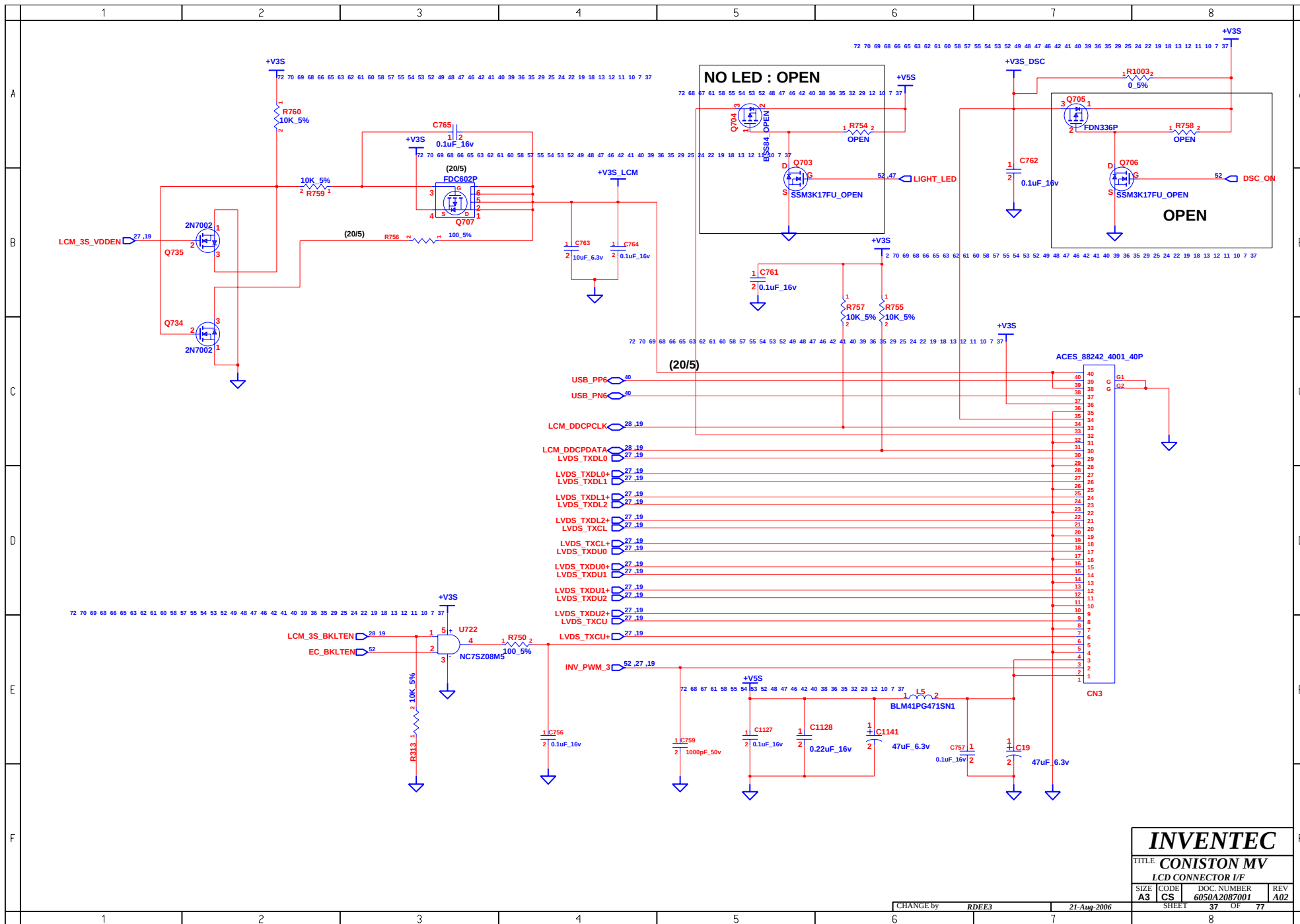
PM : OPEN

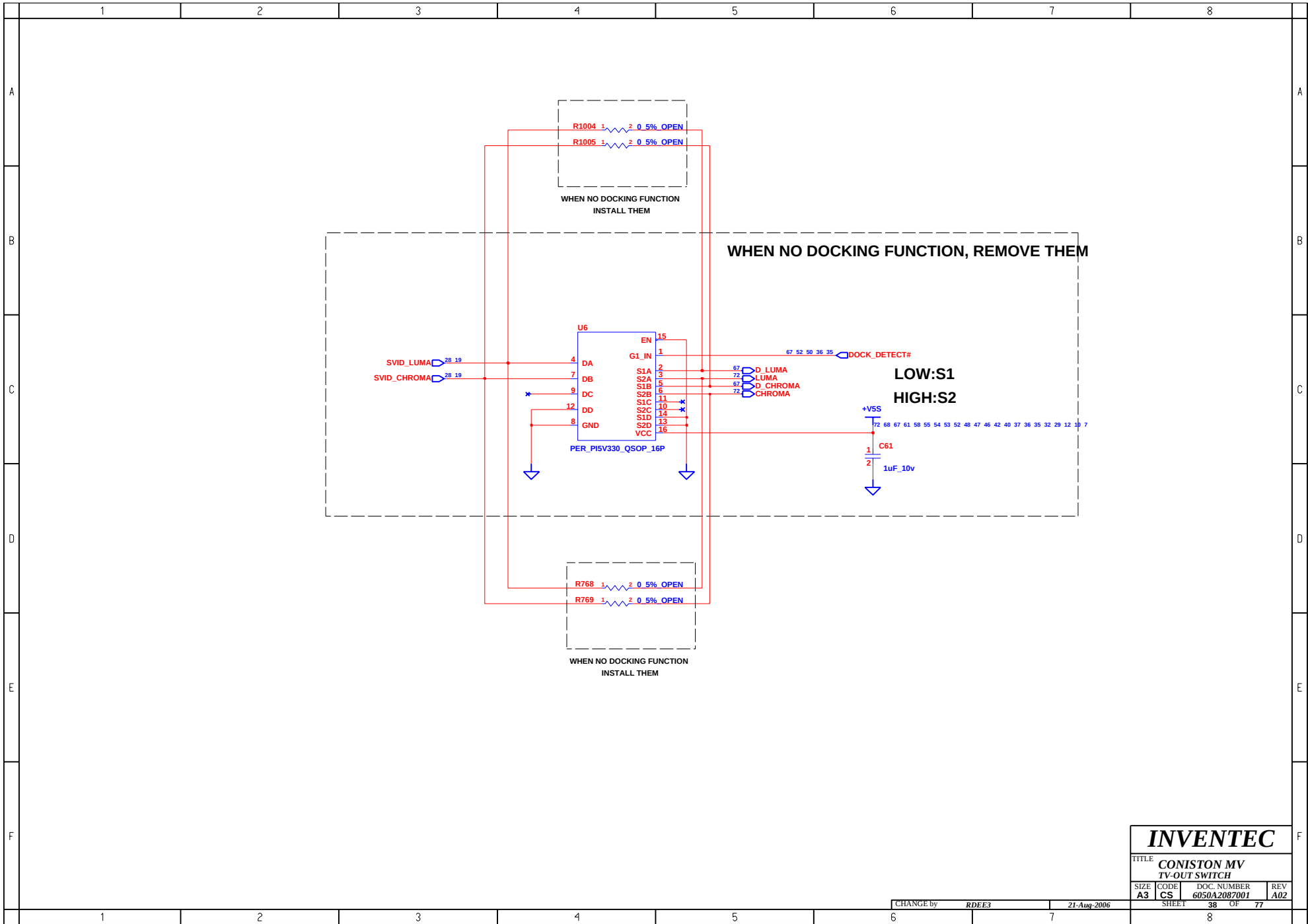


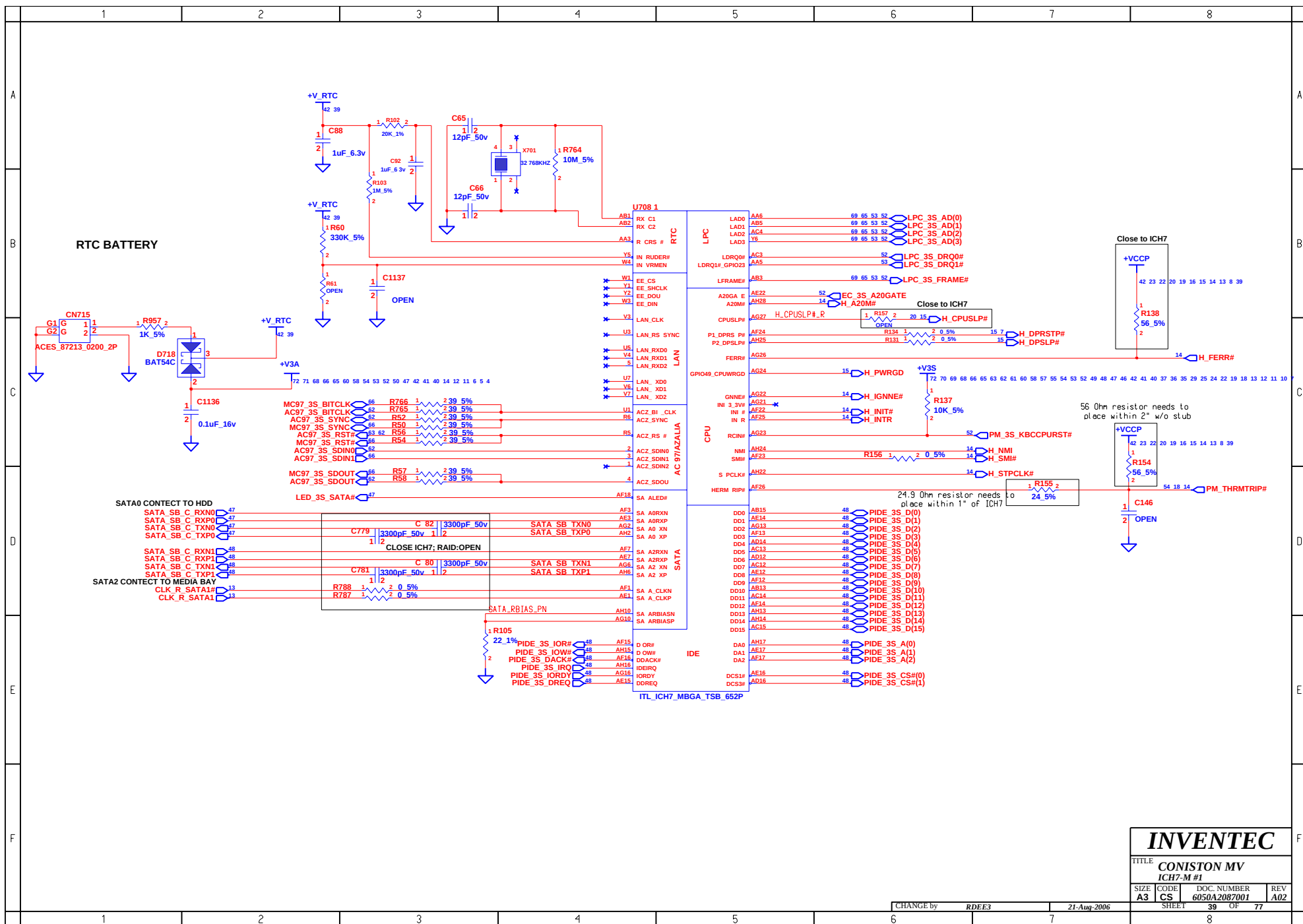
DVI-D CONNECTOR

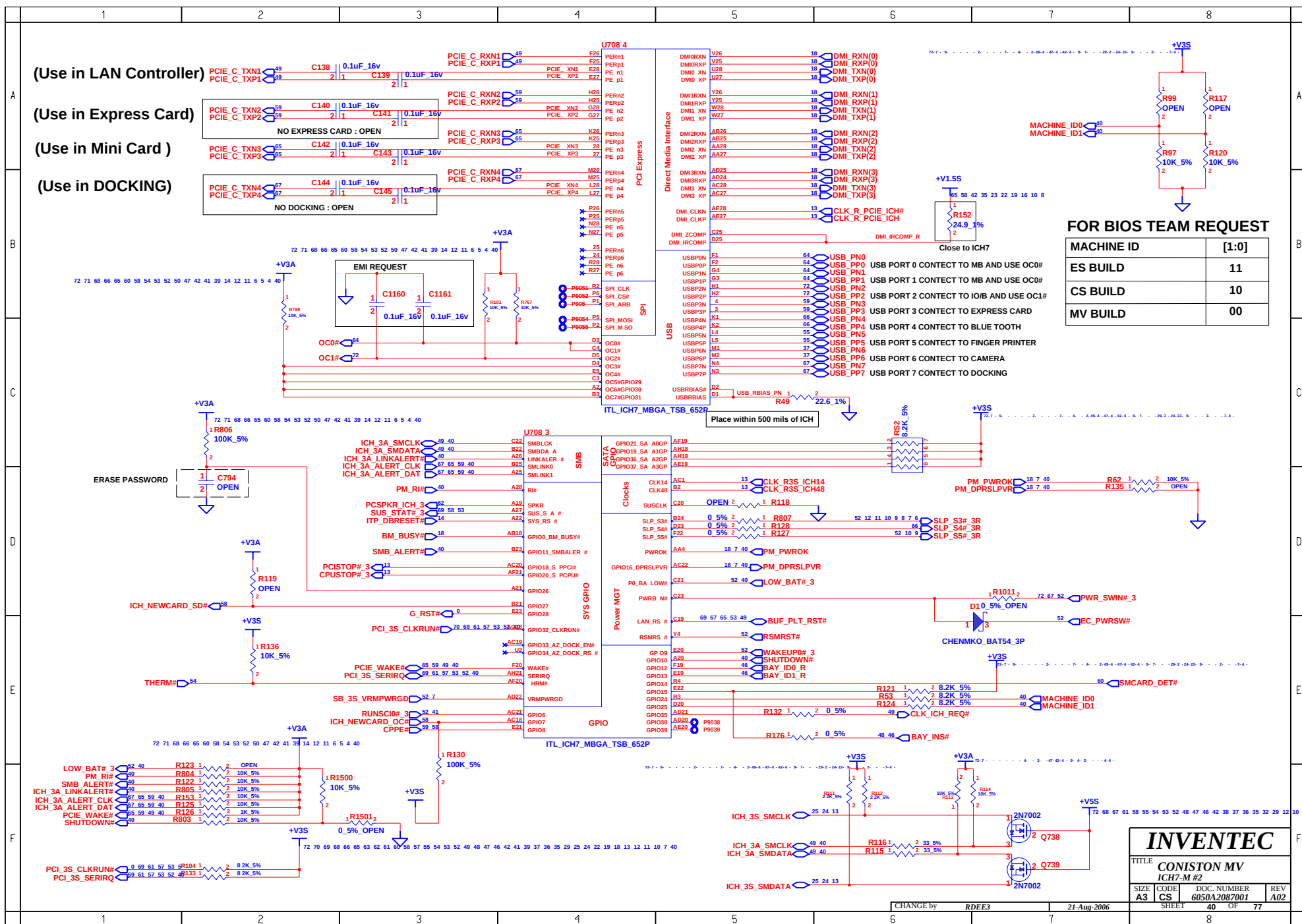
INVENTEC			
TITLE CONISTON MV			
SDVO TO DVI & DVI CONN.			
SIZE	CODE	DOC NUMBER	REV
A3	CS	6050A2087001	A02

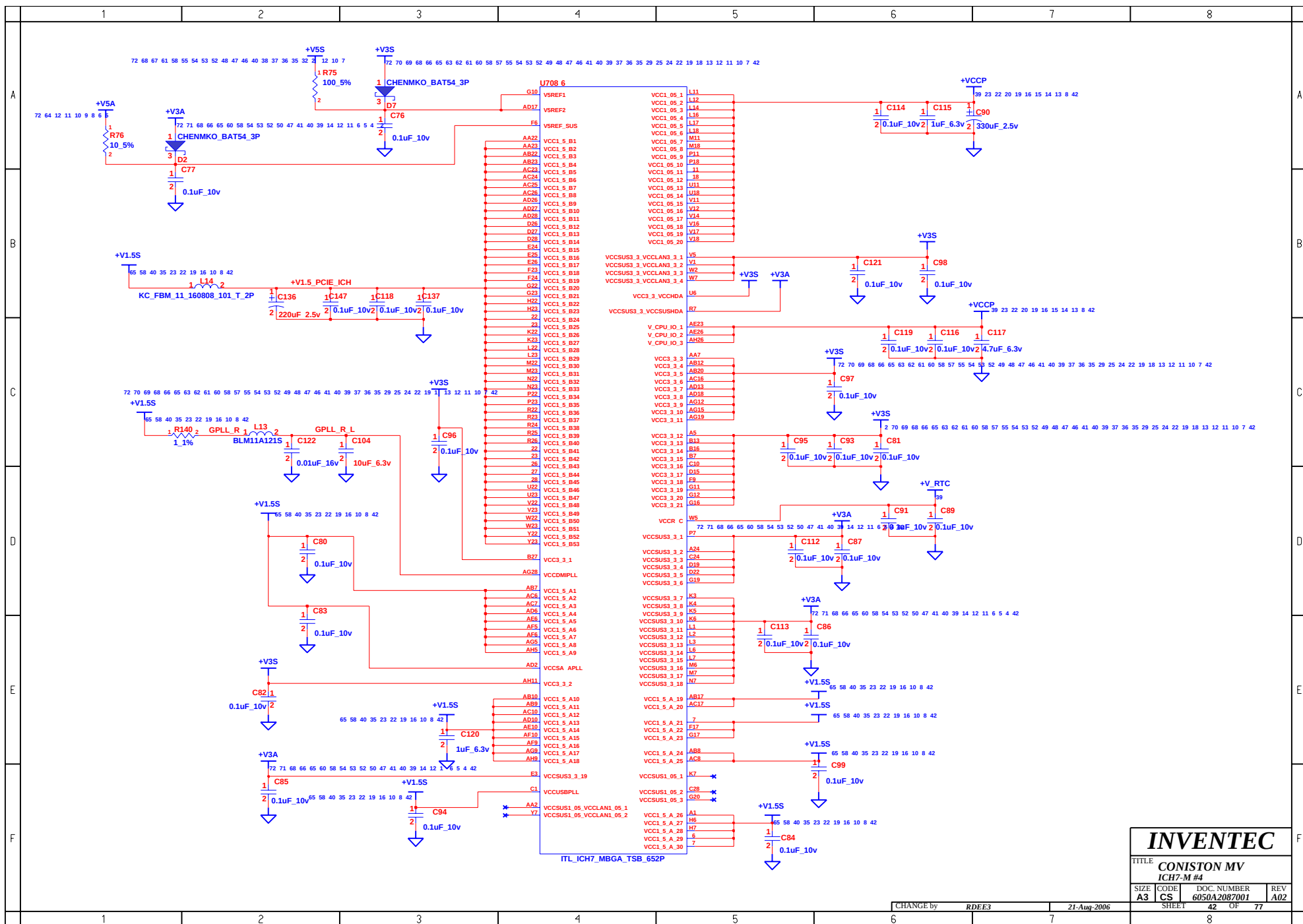












[illegible]

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE CONISTON MV			
RAID CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02
SHEET		44	OF 77

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
						6	7	8	

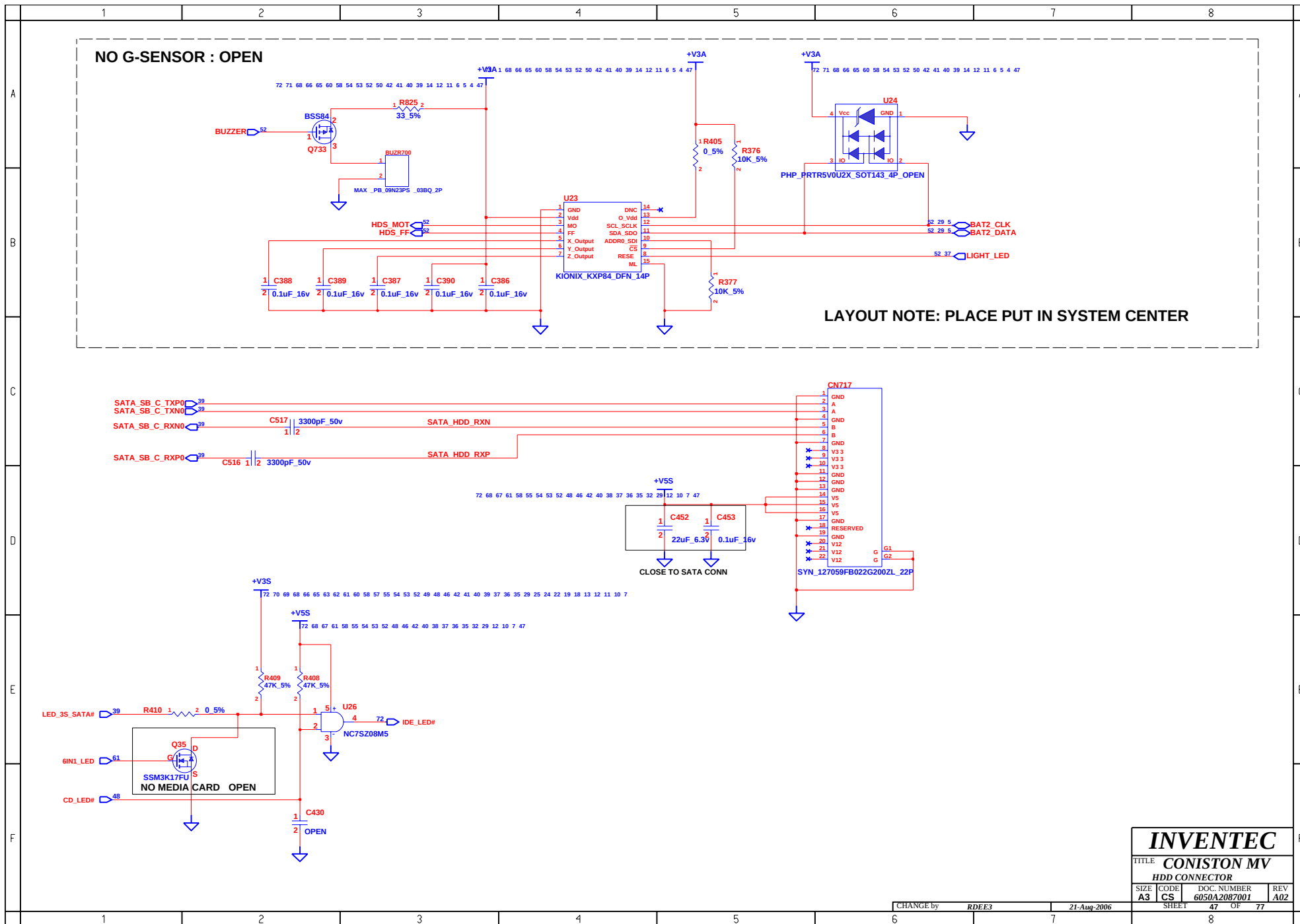
INVENTEC

TITLE **CONISTON MV
RAID CONTROLLER #2**

SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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SHEET **45** OF **77**

[illegible]

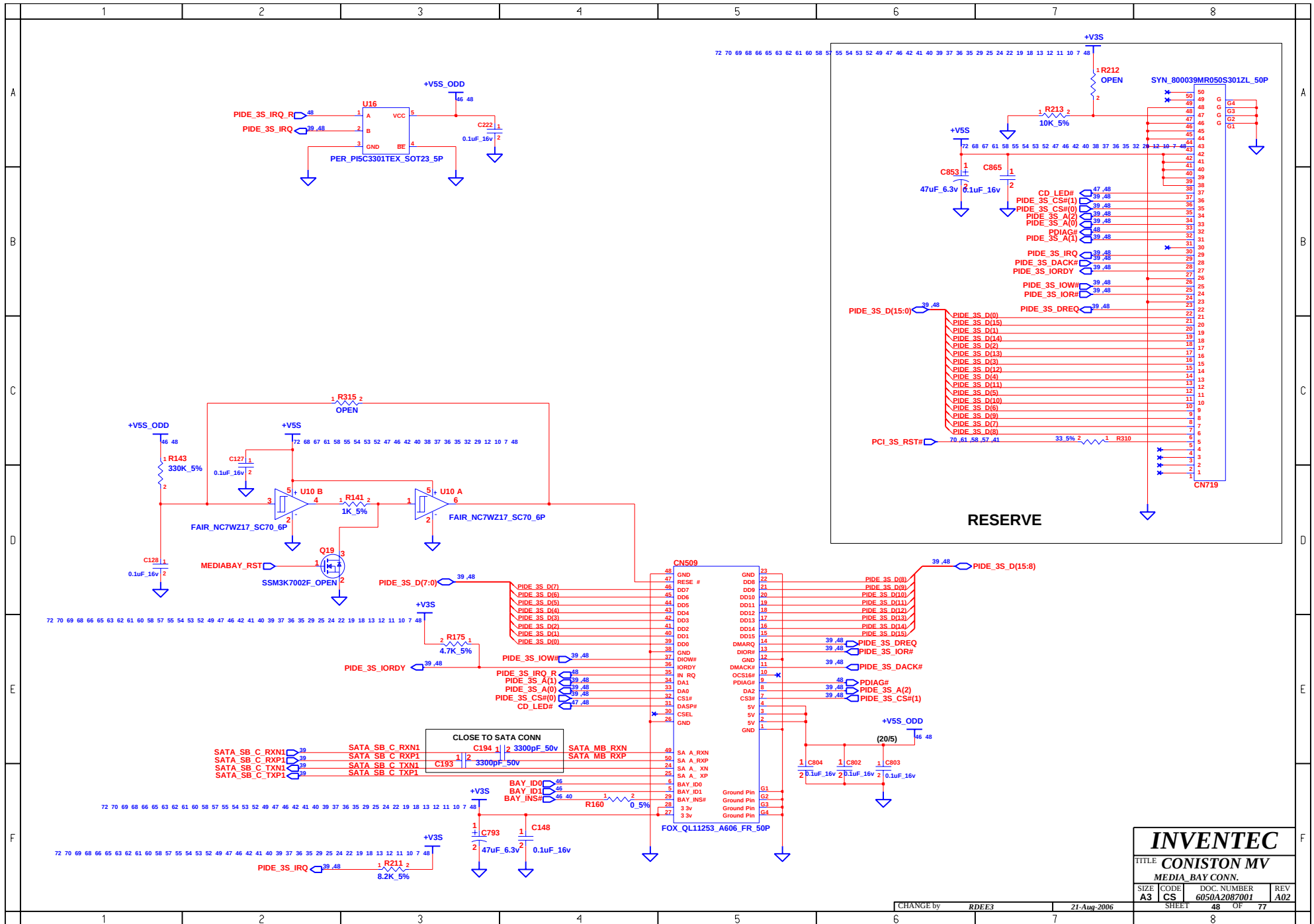


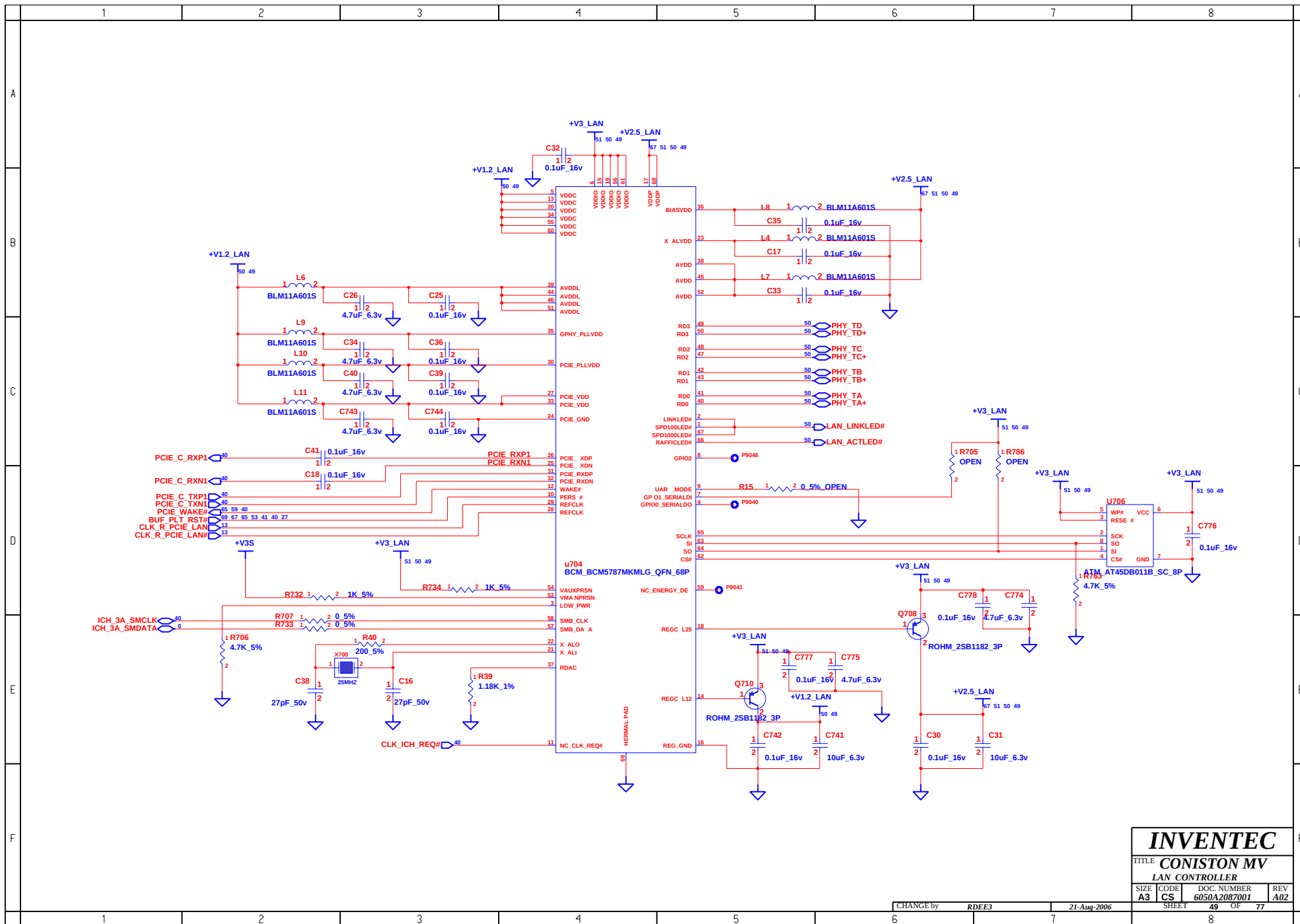
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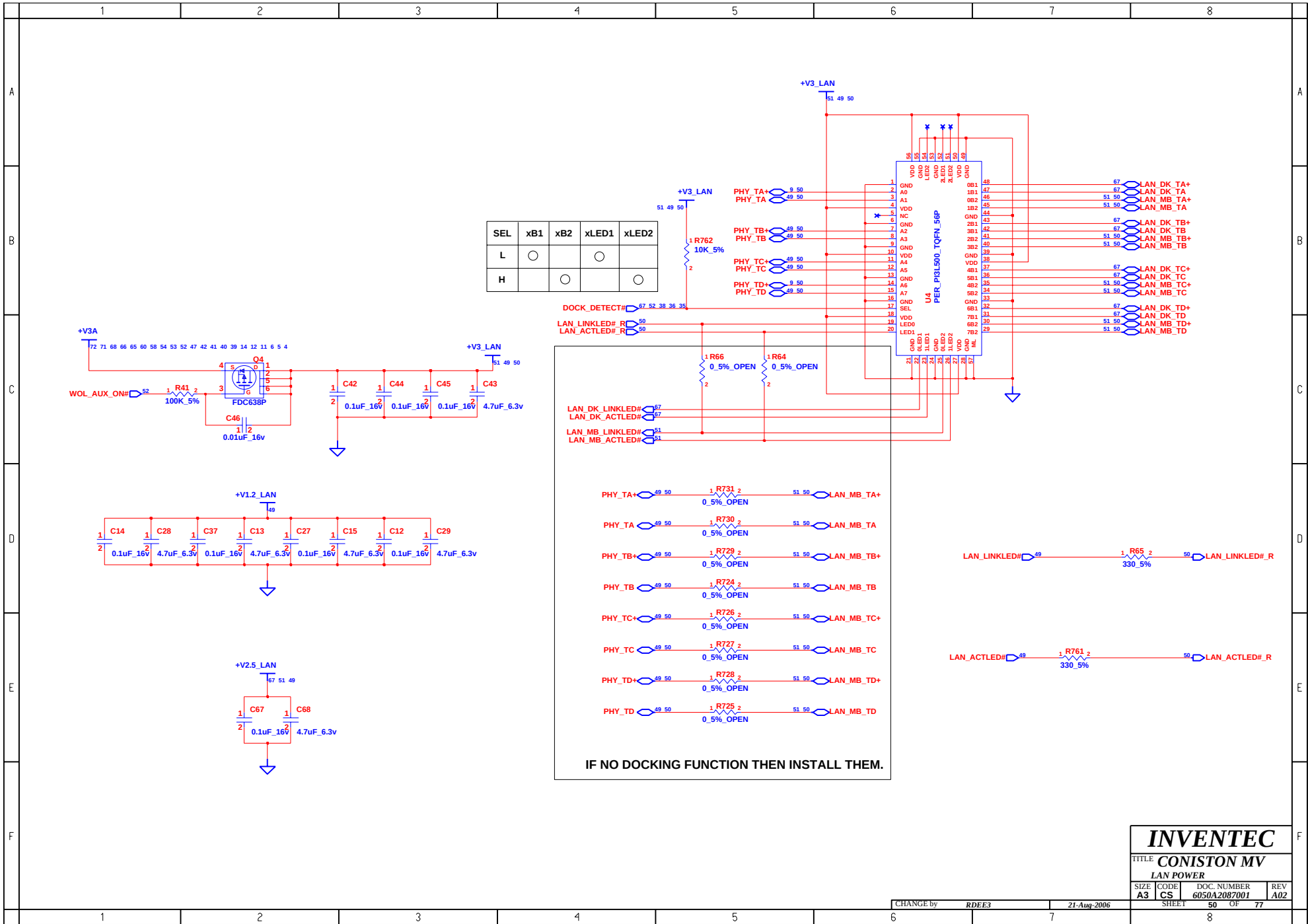
TITLE **CONISTON MV**
HDD CONNECTOR

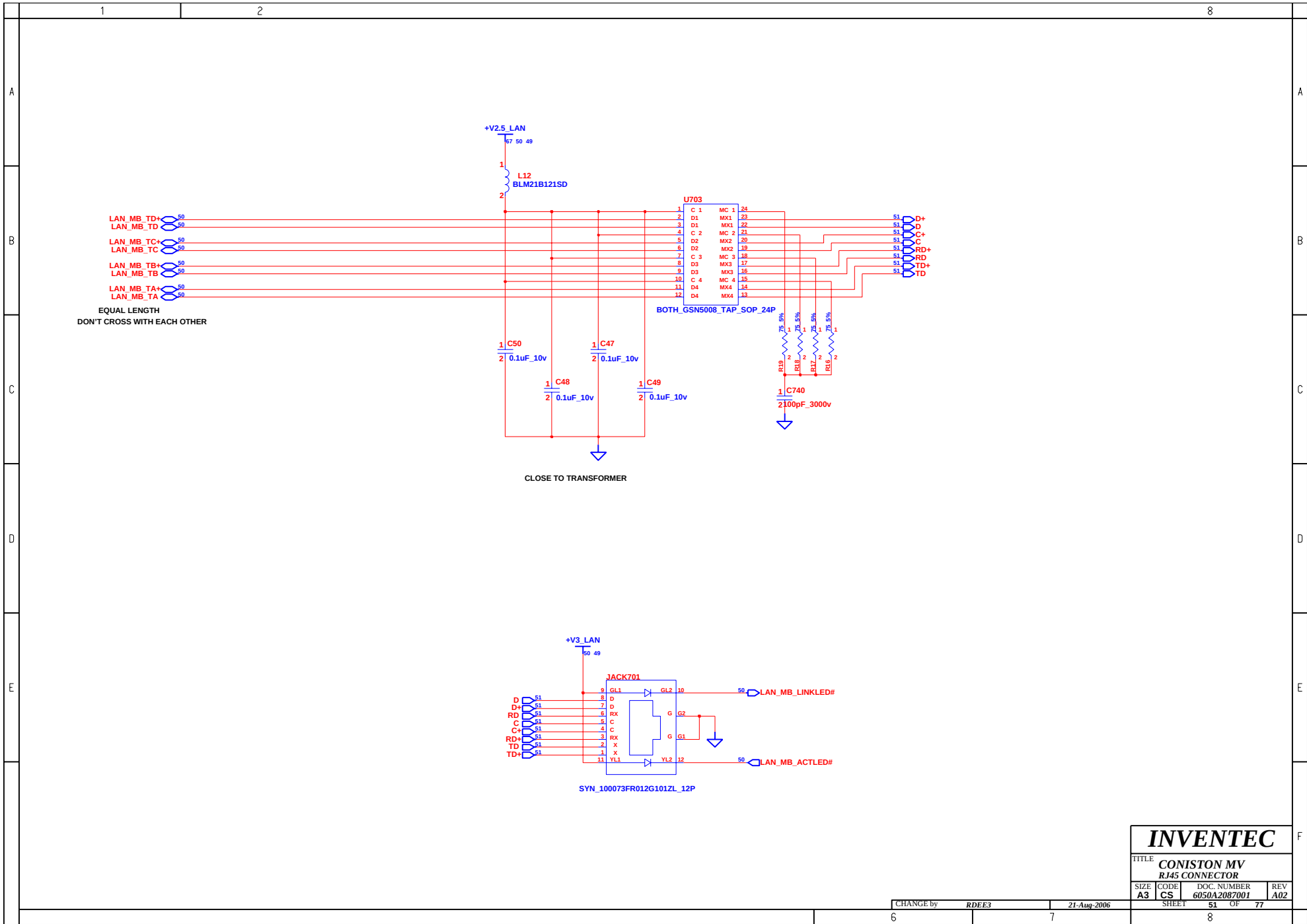
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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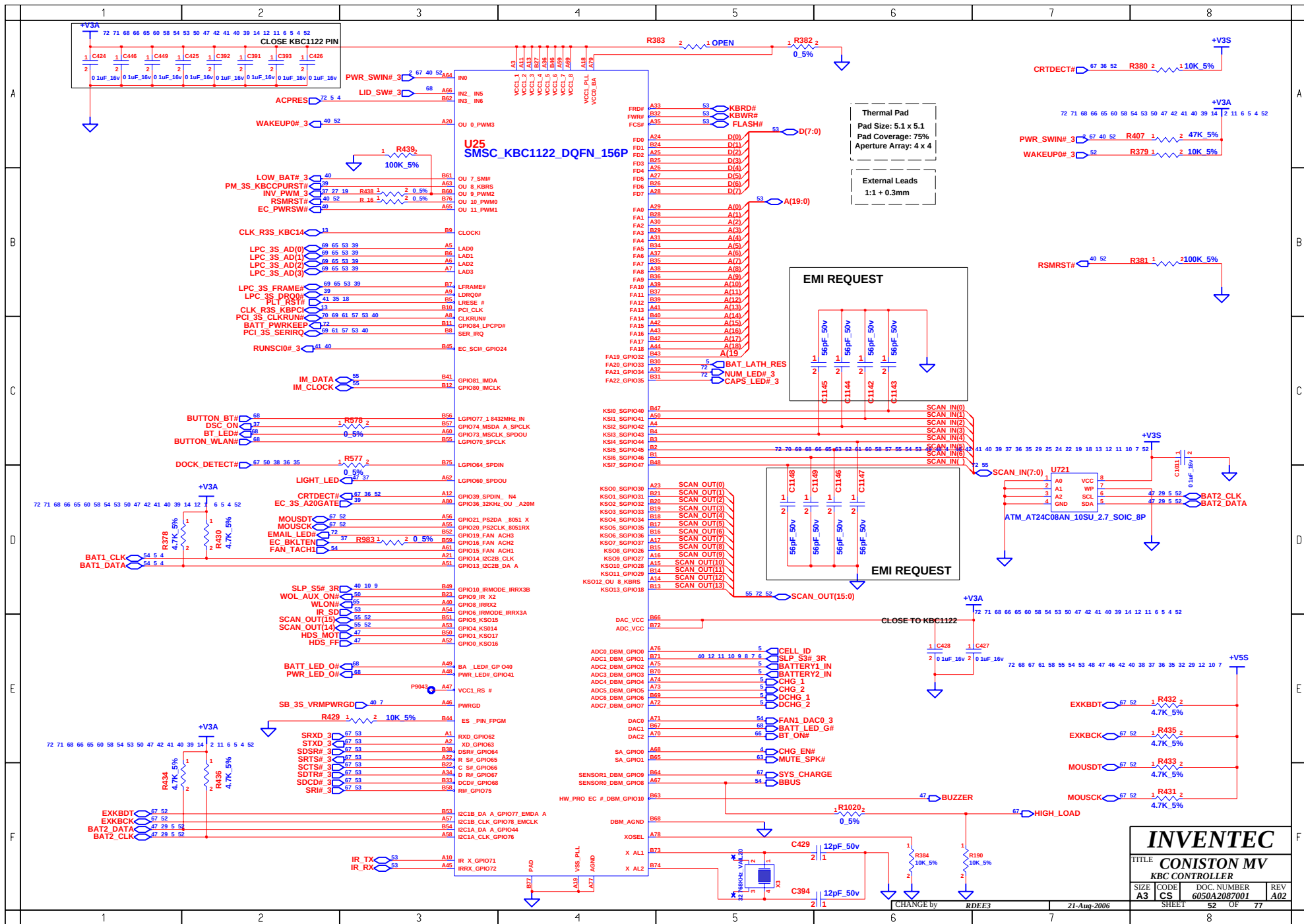
SHEET 47 OF 77









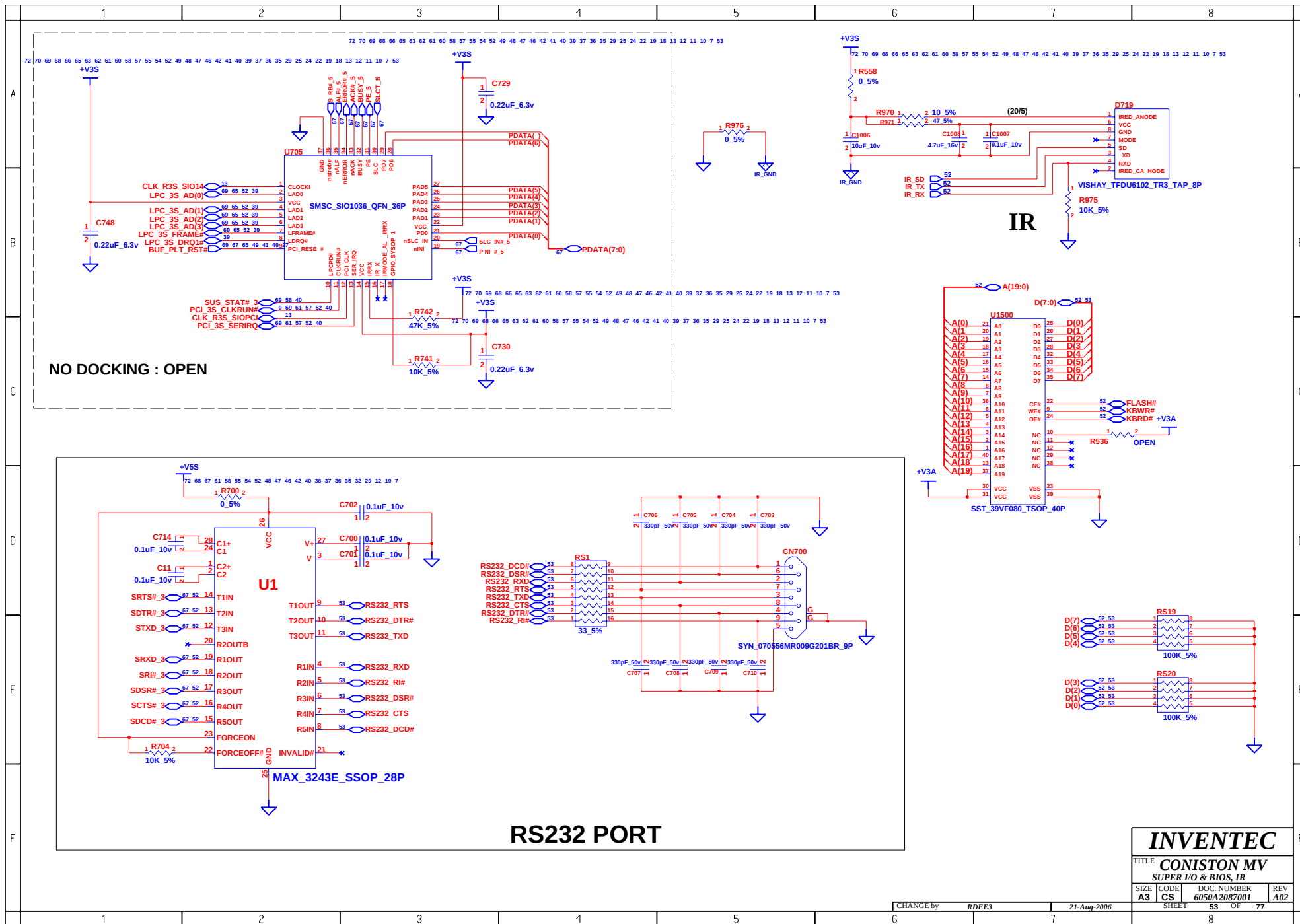


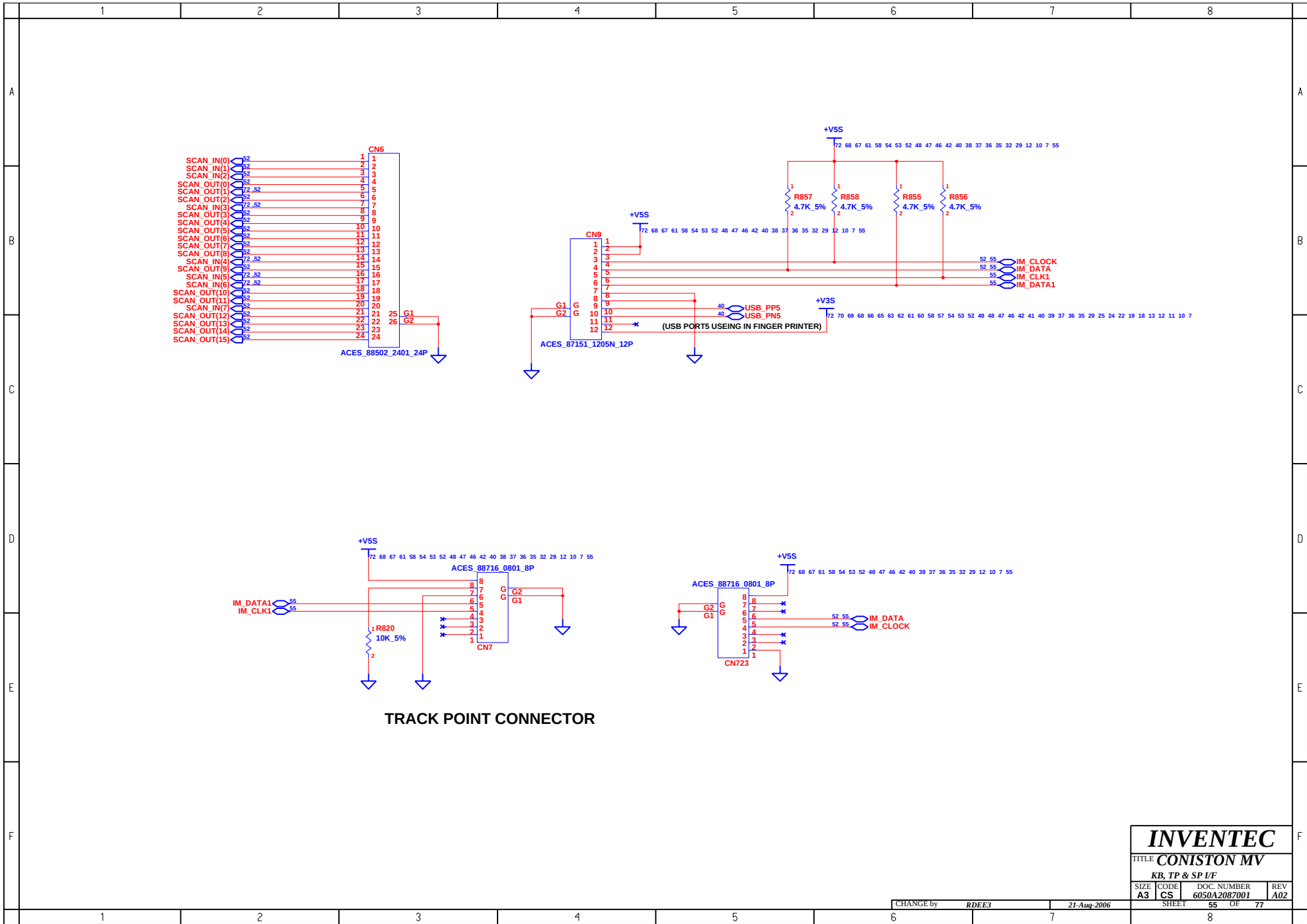
INVENTEC

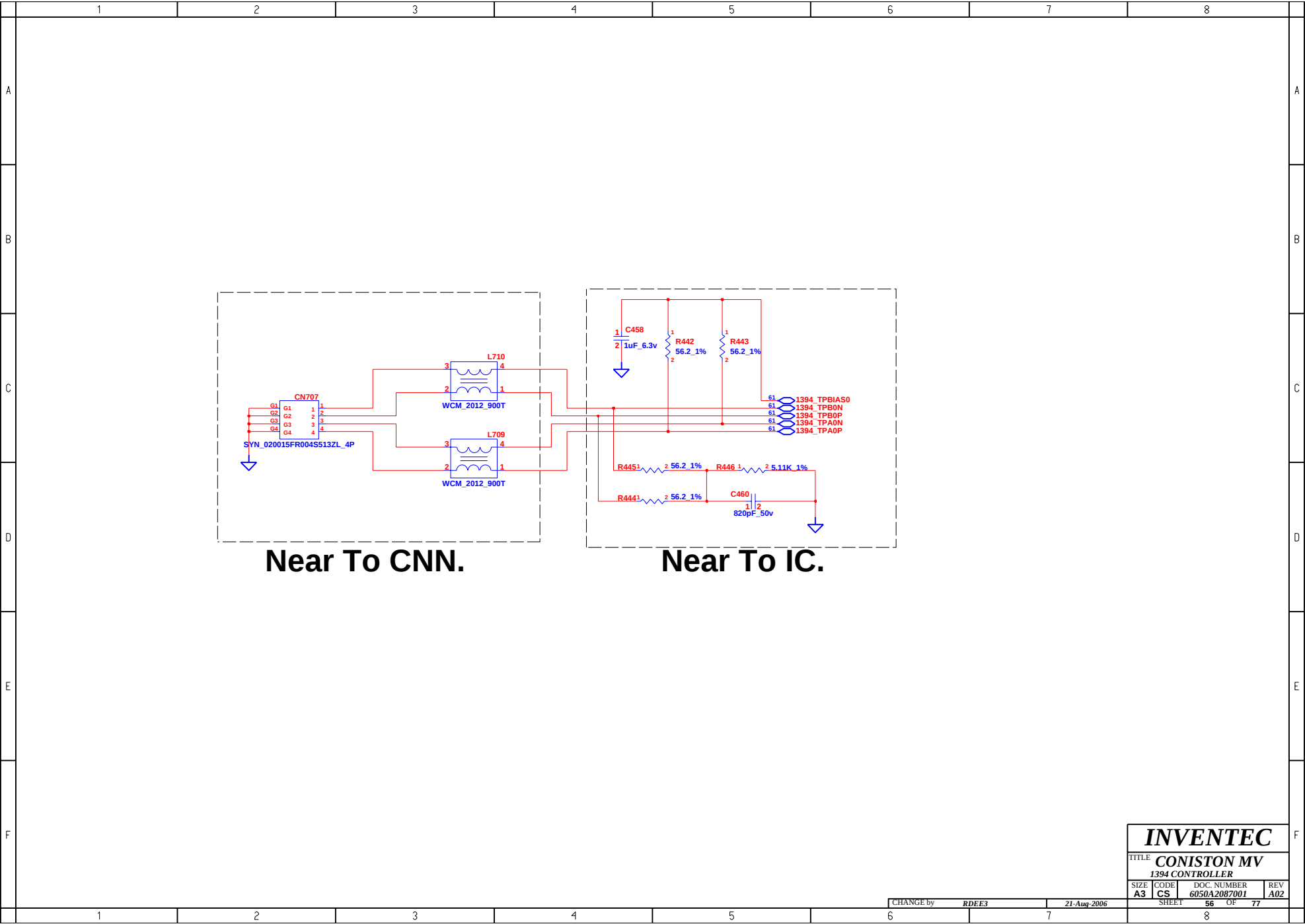
TITLE **CONISTON MV**
KBC CONTROLLER

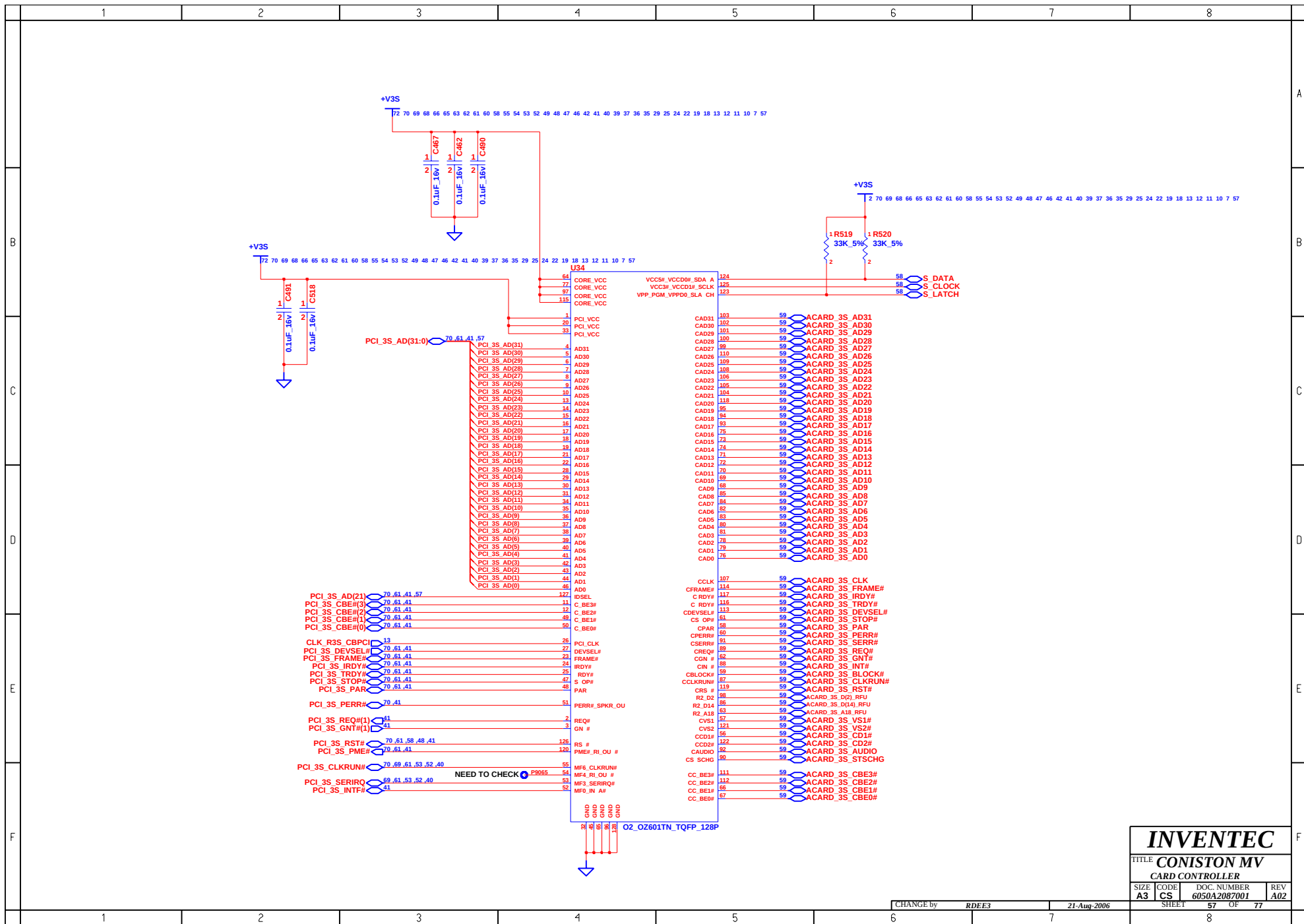
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

SHEET	52	OF	77
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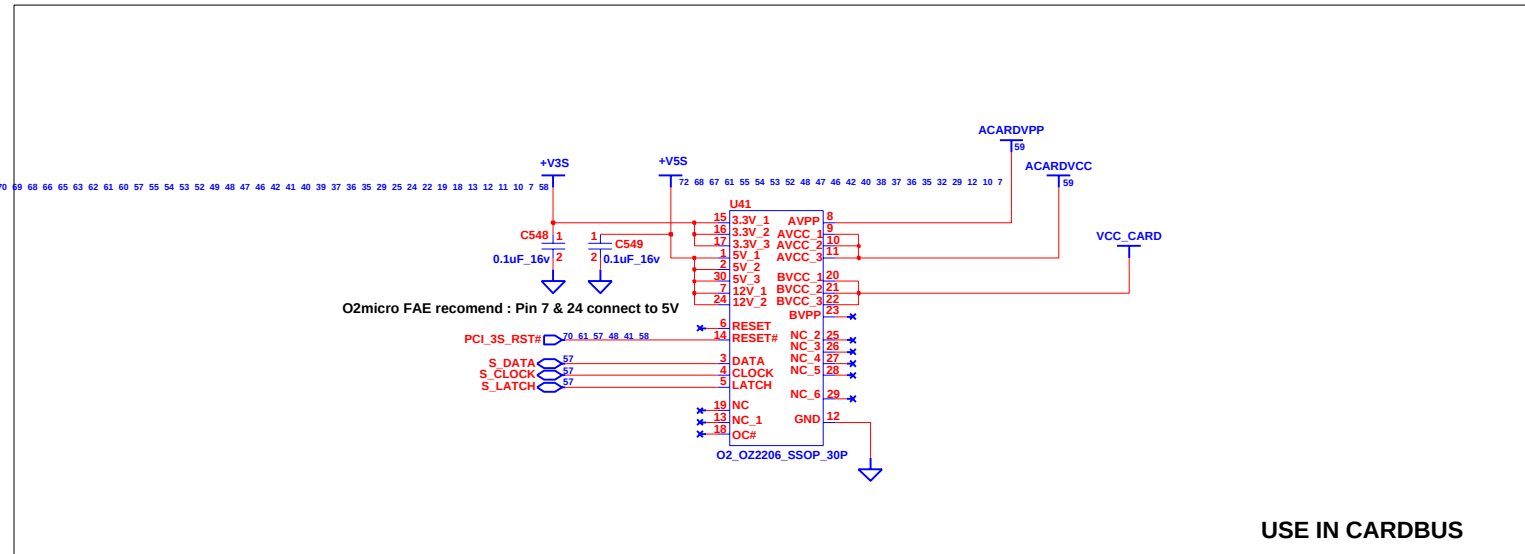
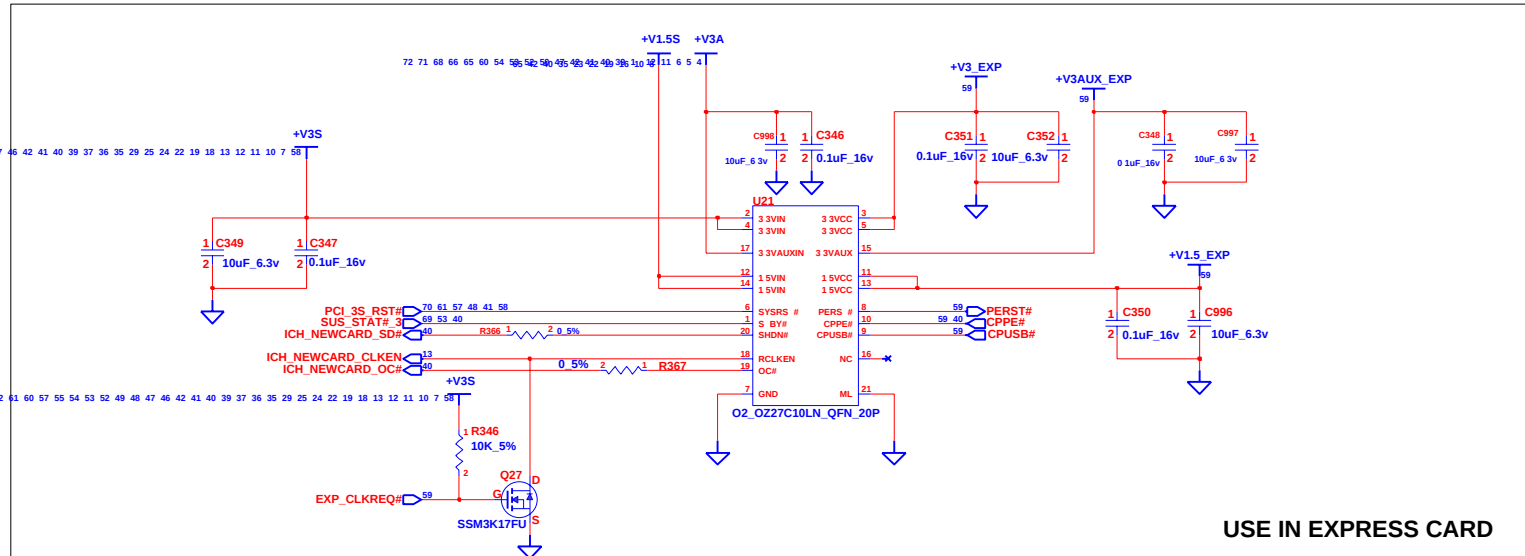
INVENTEC

TITLE **CONISTON MV**
CARD CONTROLLER

SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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SHEET 57 OF 77

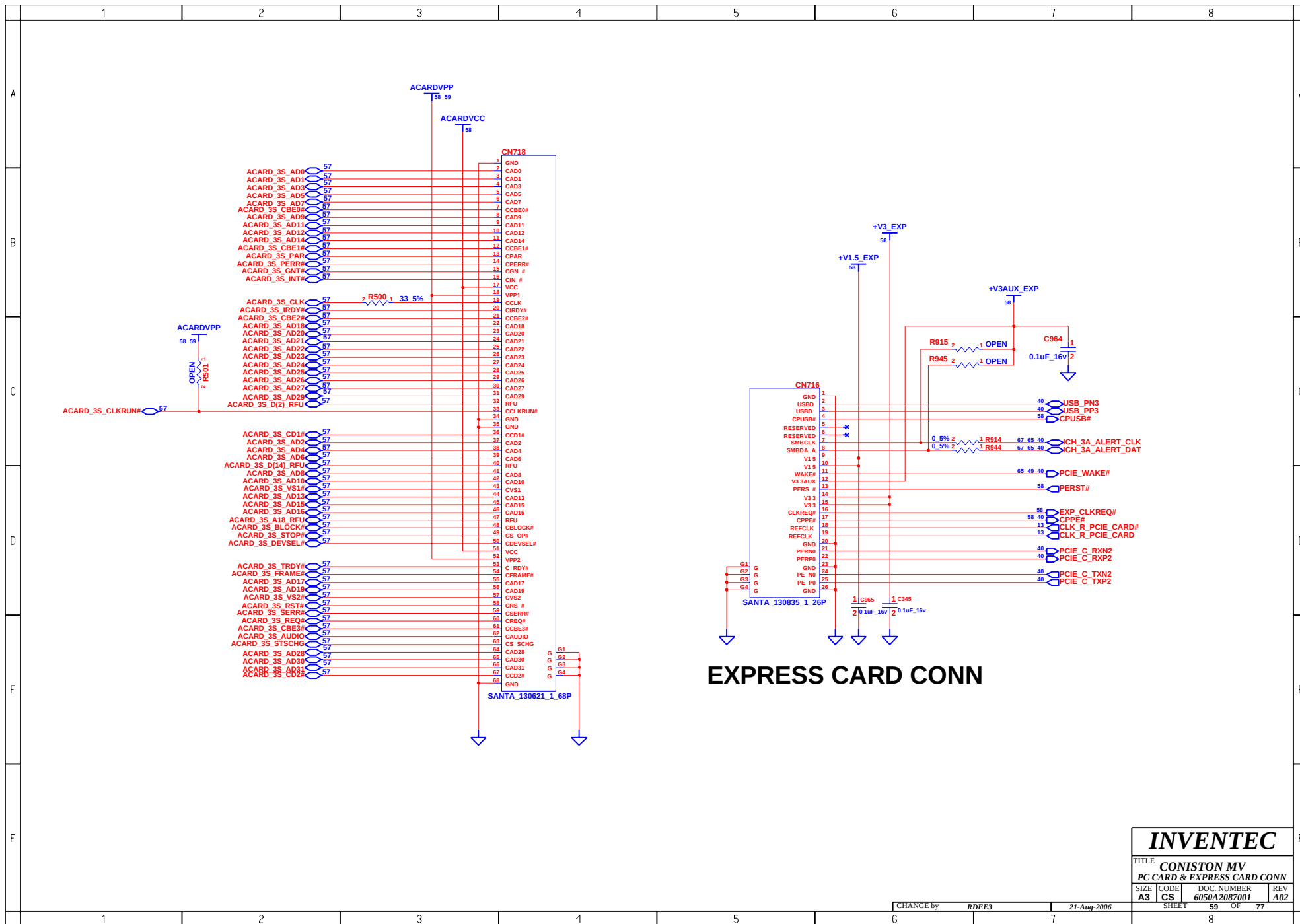
CHANGE by **RDEE3** 21-Aug-2006



INVENTEC				
TITLE CONISTON MV				
PC CARD & EXPRESS CARD POWER				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	6050A2087001	A02	

CHANGE by RDEE3 21-Aug-2006

SHEET 58 OF 77



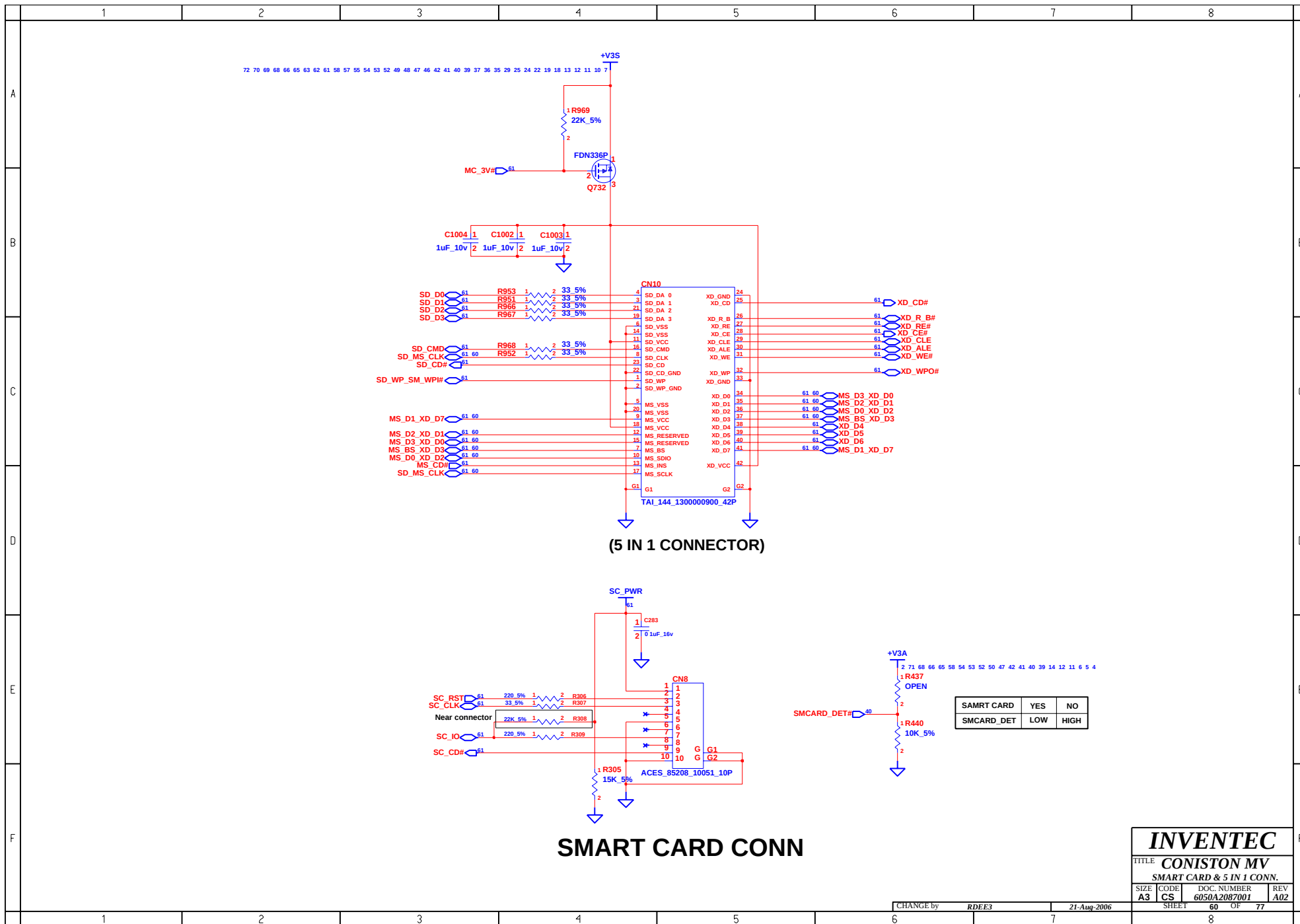
INVENTEC

TITLE
CONISTON MV
PC CARD & EXPRESS CARD CONN

SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
-------------------	-------------------	------------------------------------	-------------------

CHANGE by **RDEE3** 21-Aug-2006

SHEET **59** OF **77**



INVENTEC

TITLE **CONISTON MV**
SMART CARD & 5 IN 1 CONN.

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by **RDEE3** 21-Aug-2006

SHEET 60 OF 77

A



1

1

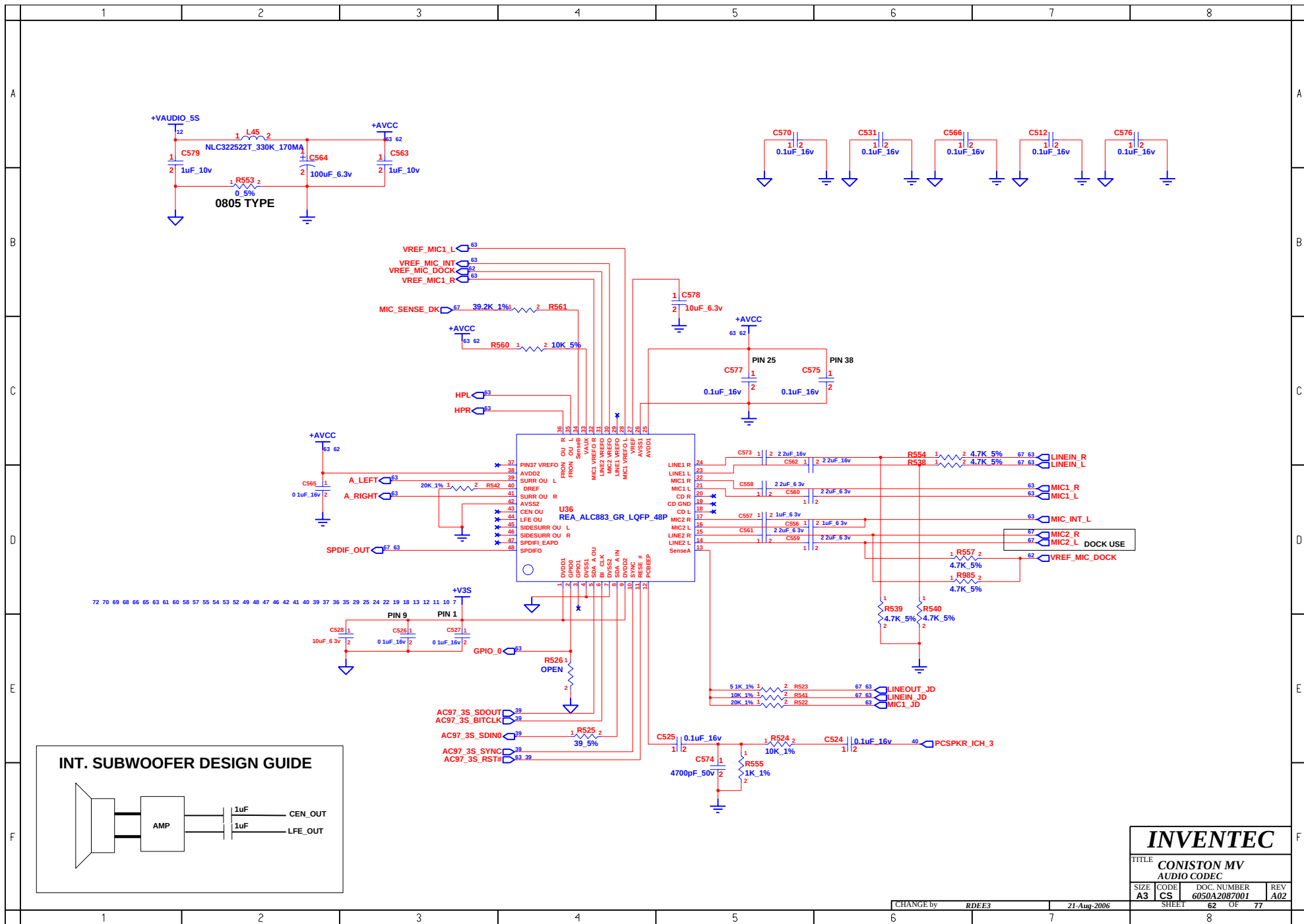
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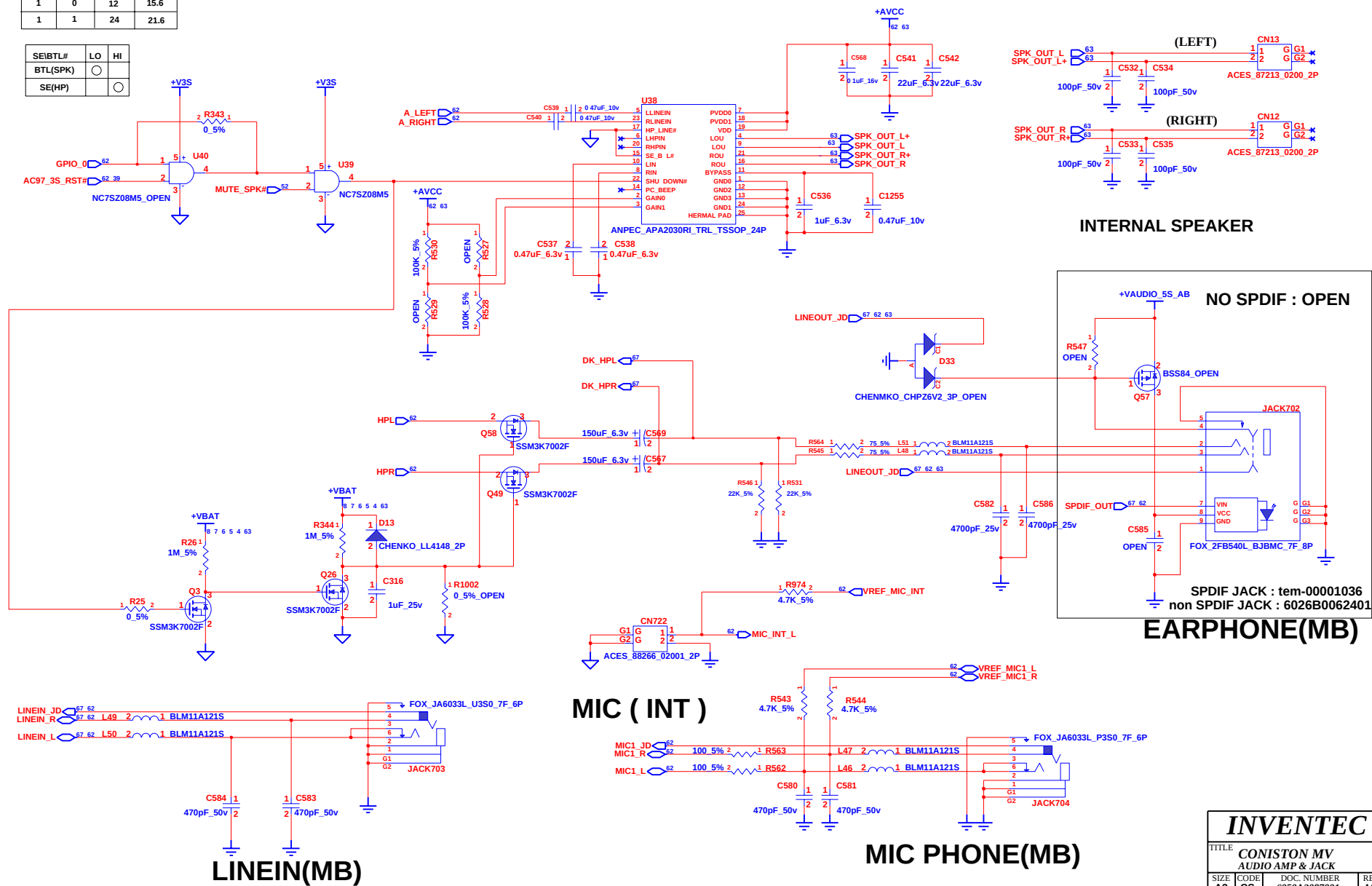
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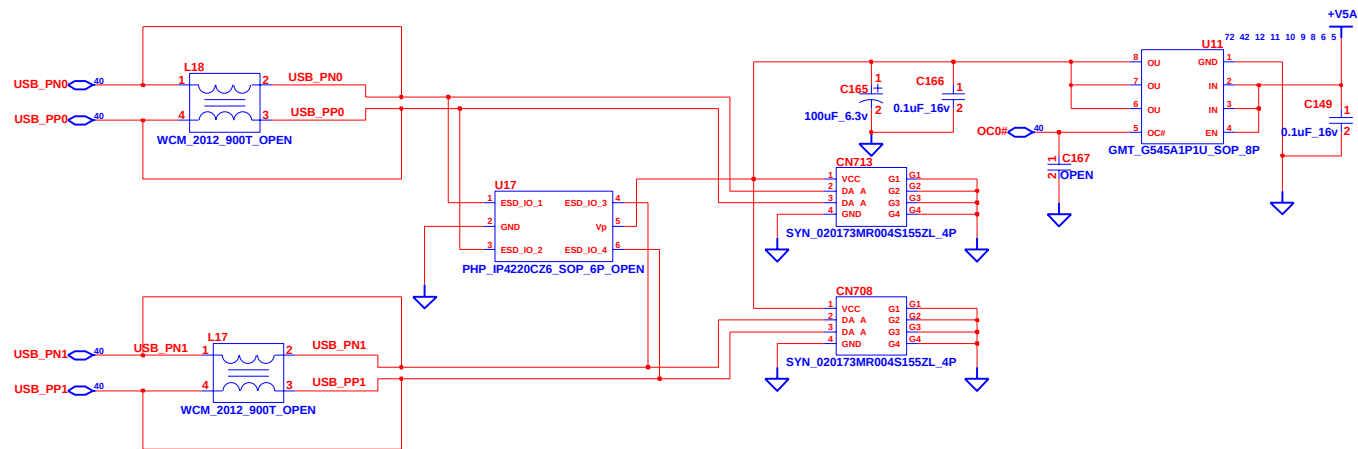


GAIN0	GAIN1	TI(dB)	APA(dB)
0	0	2	6
0	1	6	10
1	0	12	15.6
1	1	24	21.6

SEIBTL#	LO	HI
BTL(SPK)	☐	☐
SE(HP)	☐	☐



INVENTEC			
TITLE CONISTON MV AUDIO AMP & JACK			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
CHANGE by RDEE3		21-Aug-2006	
SHEET 63		OF 77	



USB PORT 0 & 1 USE IN MAIN BOARD

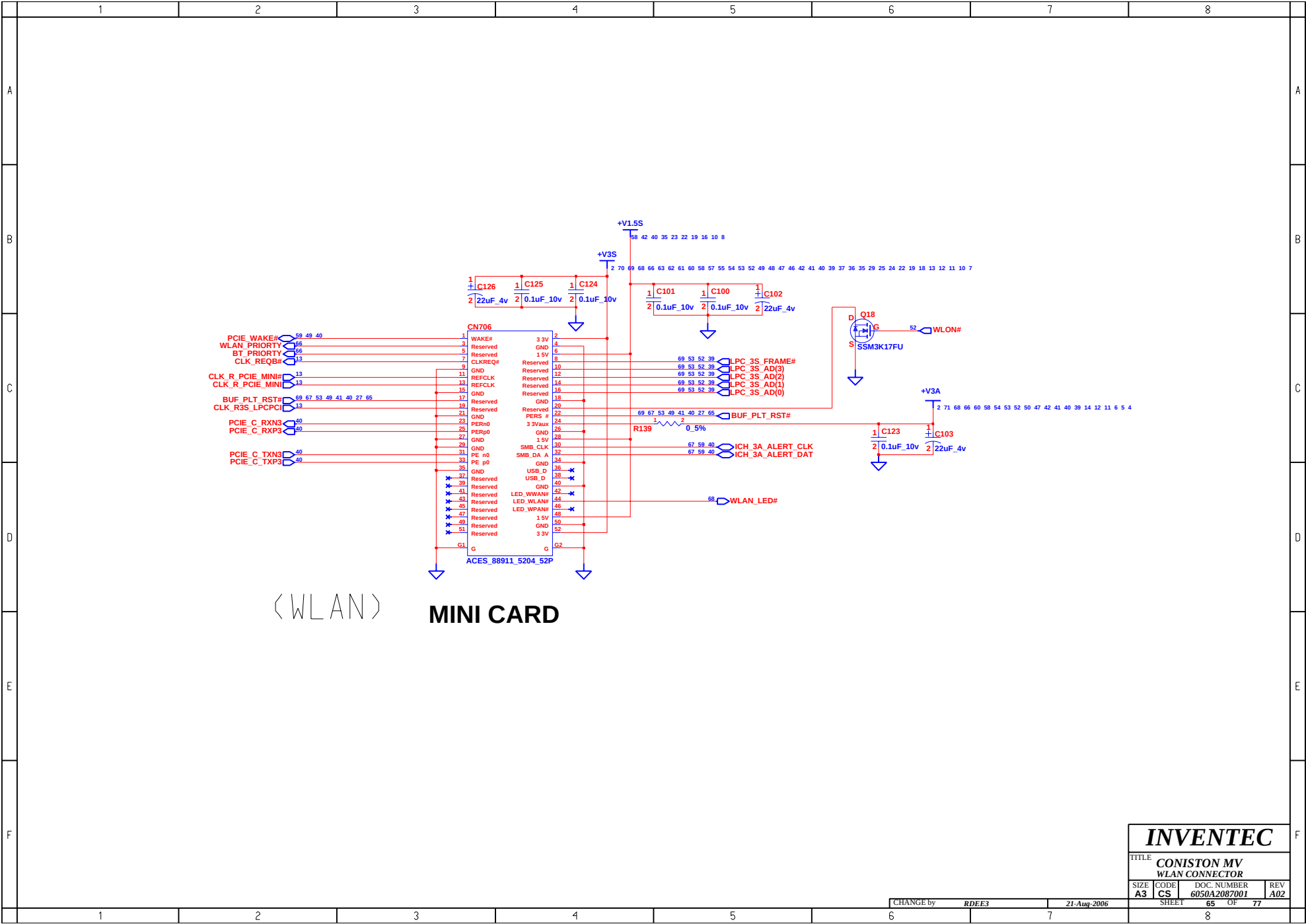
INVENTEC

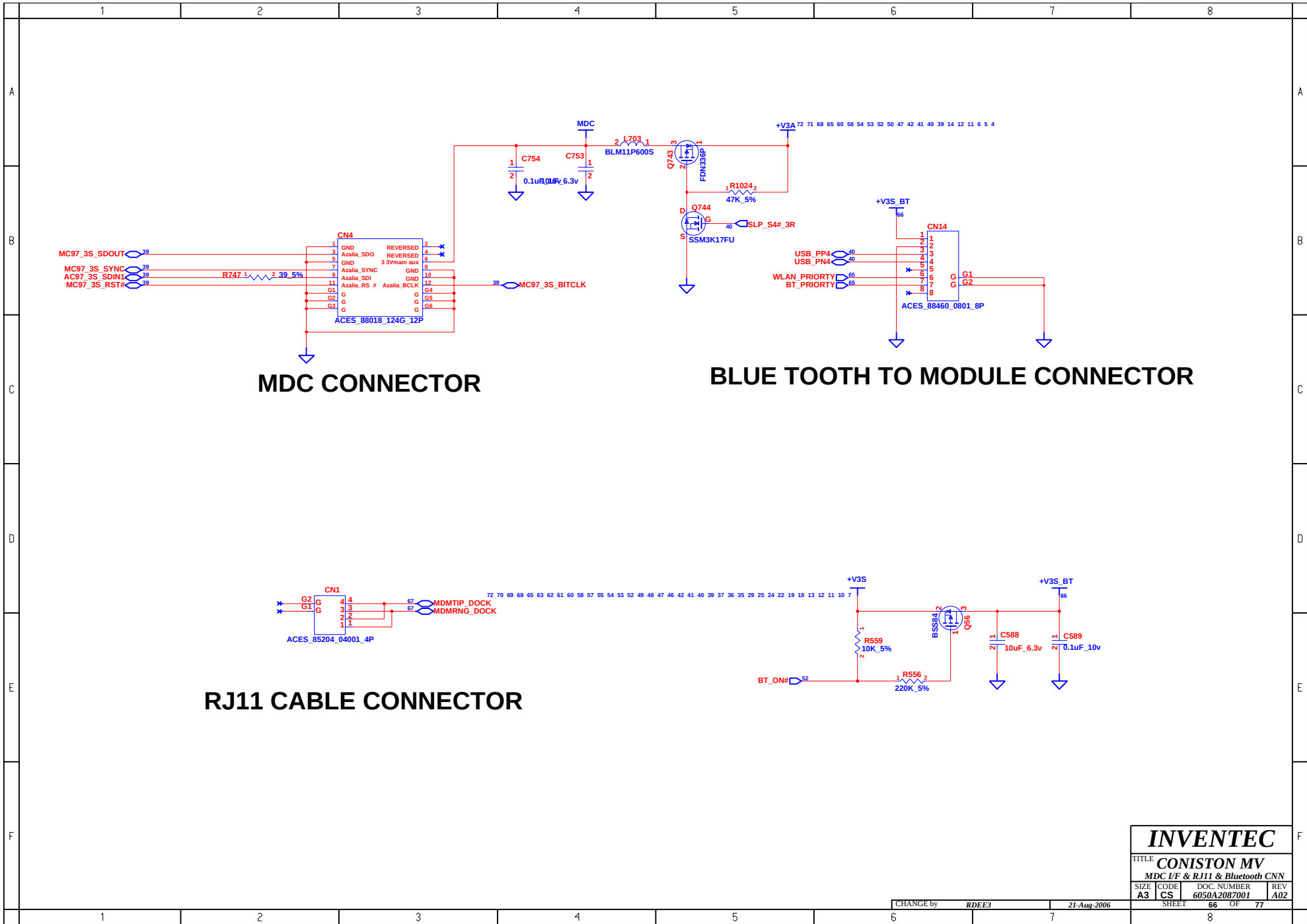
TITLE
**CONISTON MV
USB_PORT**

SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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CHANGE by **RDEE3** 21-Aug-2006

SHEET **64** OF **77**



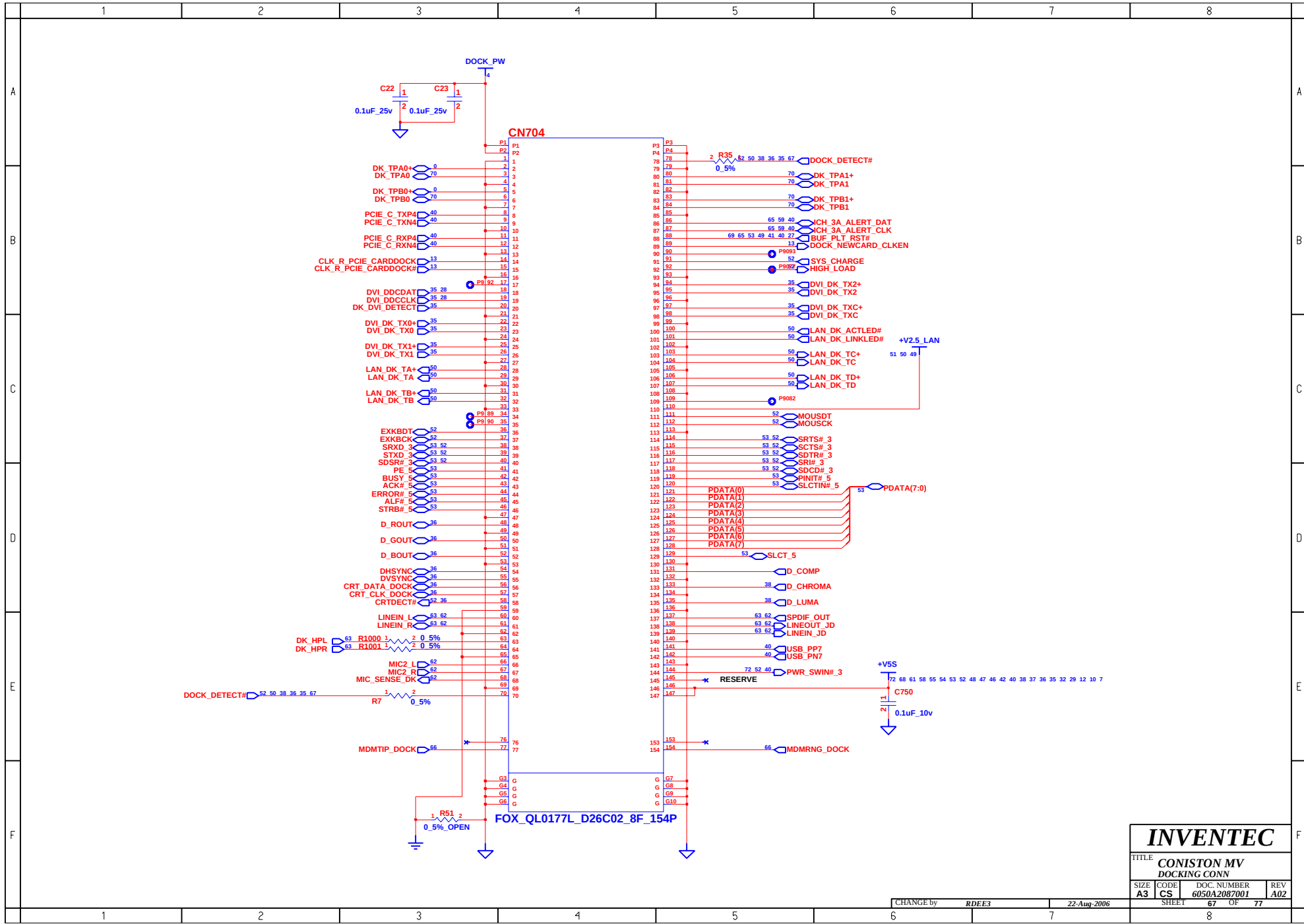


INVENTEC

TITLE CONISTON MV			
MDC I/F & RJ11 & Bluetooth CNN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by **RDEE3** 21-Aug-2006

SHEET 66 OF 77

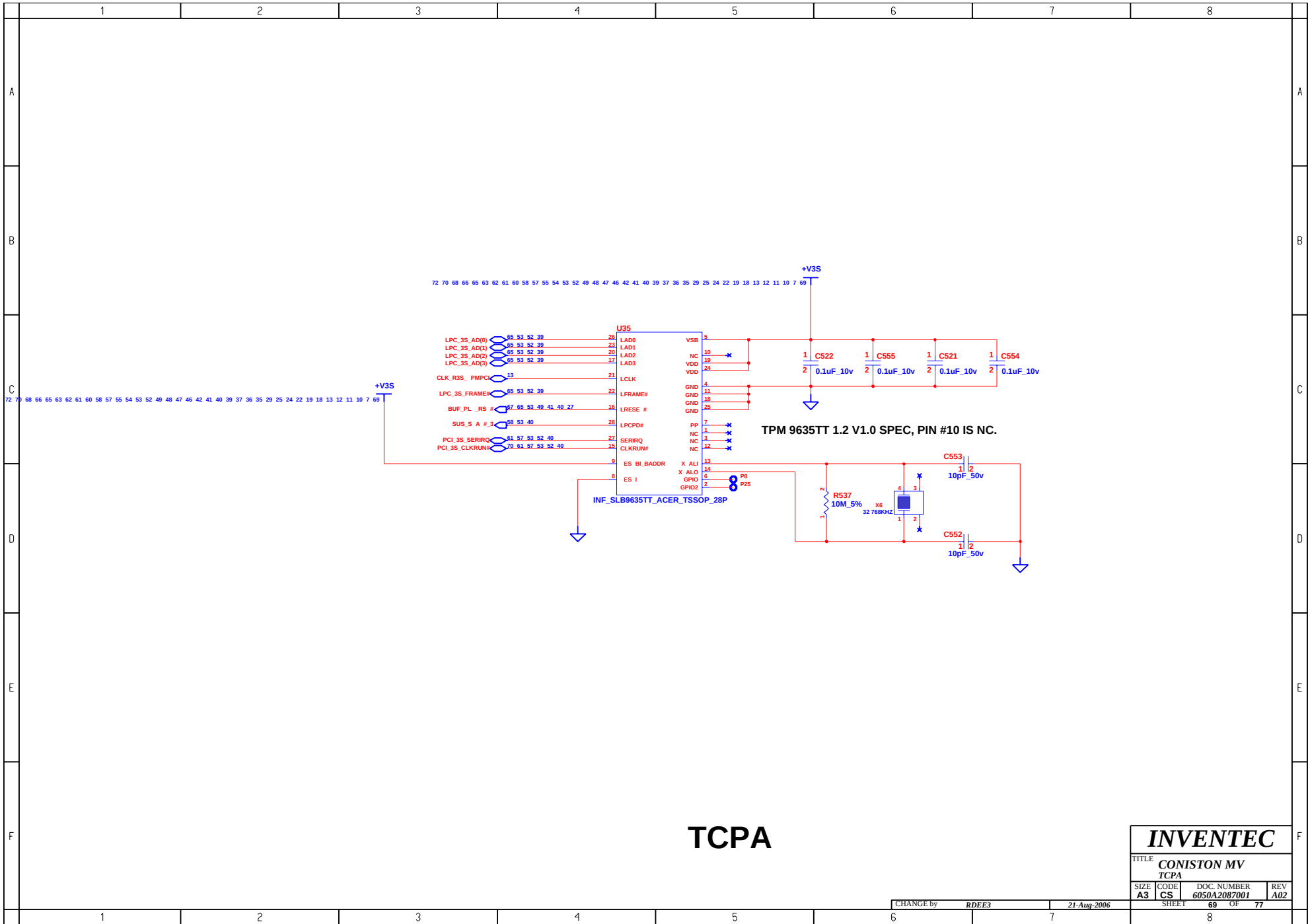


INVENTEC

TITLE
**CONISTON MV
DOCKING CONN**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by **RDEE3** 22-Aug-2006
SHEET 67 OF 77



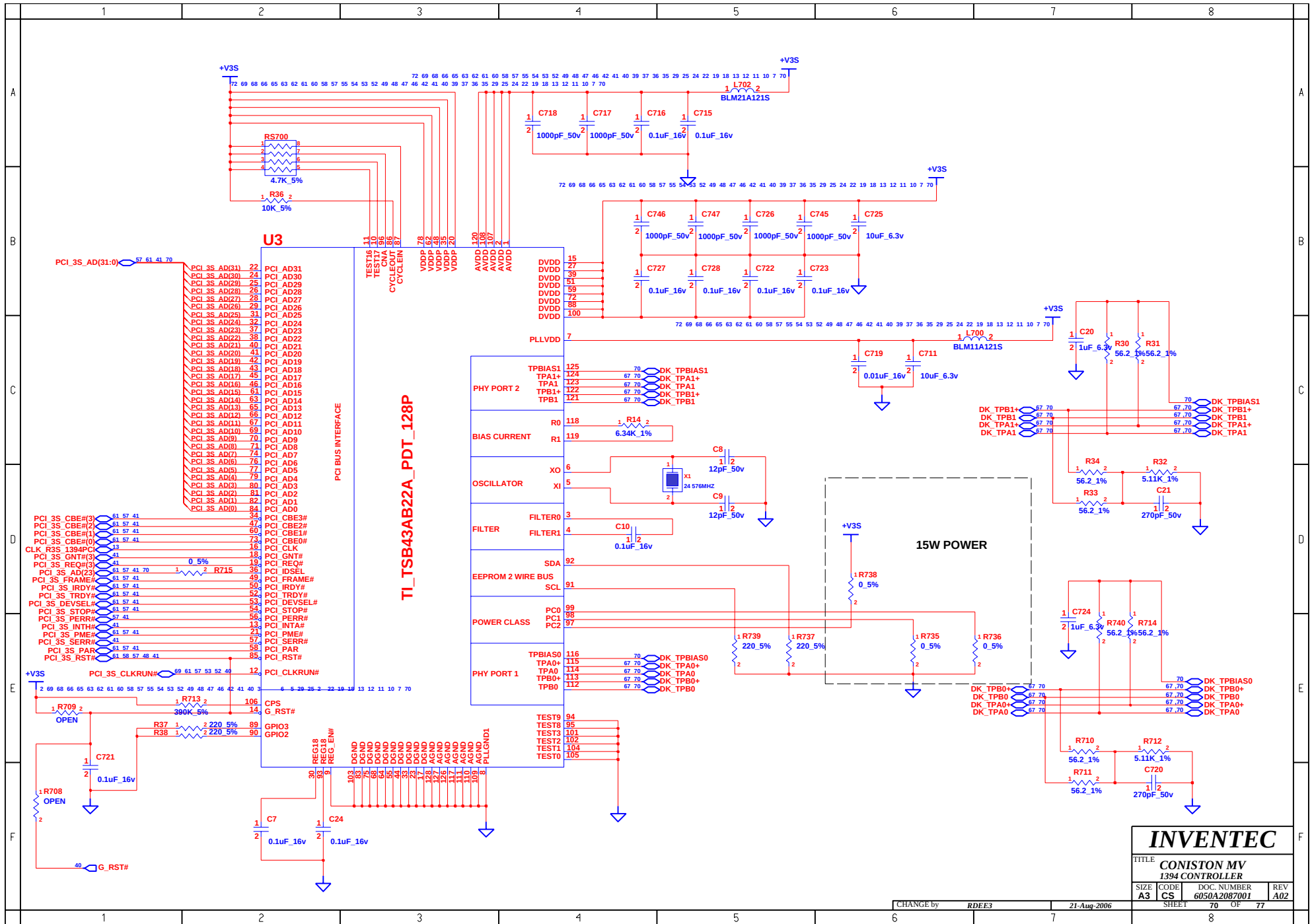
INVENTEC

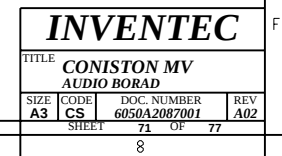
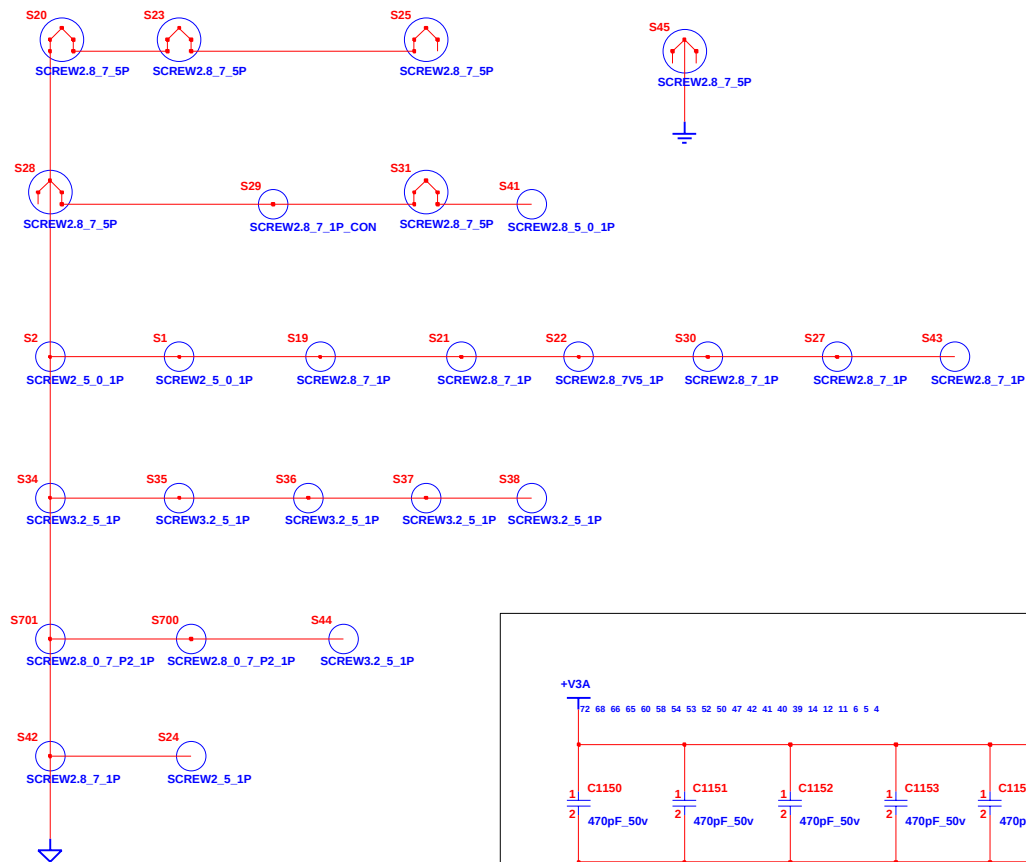
TITLE
CONISTON MV
TCPA

SIZE CODE DOC. NUMBER REV
A3 CS 6050A2087001 A02

CHANGE by RDEE3 21-Aug-2006

SHEET 69 OF 77

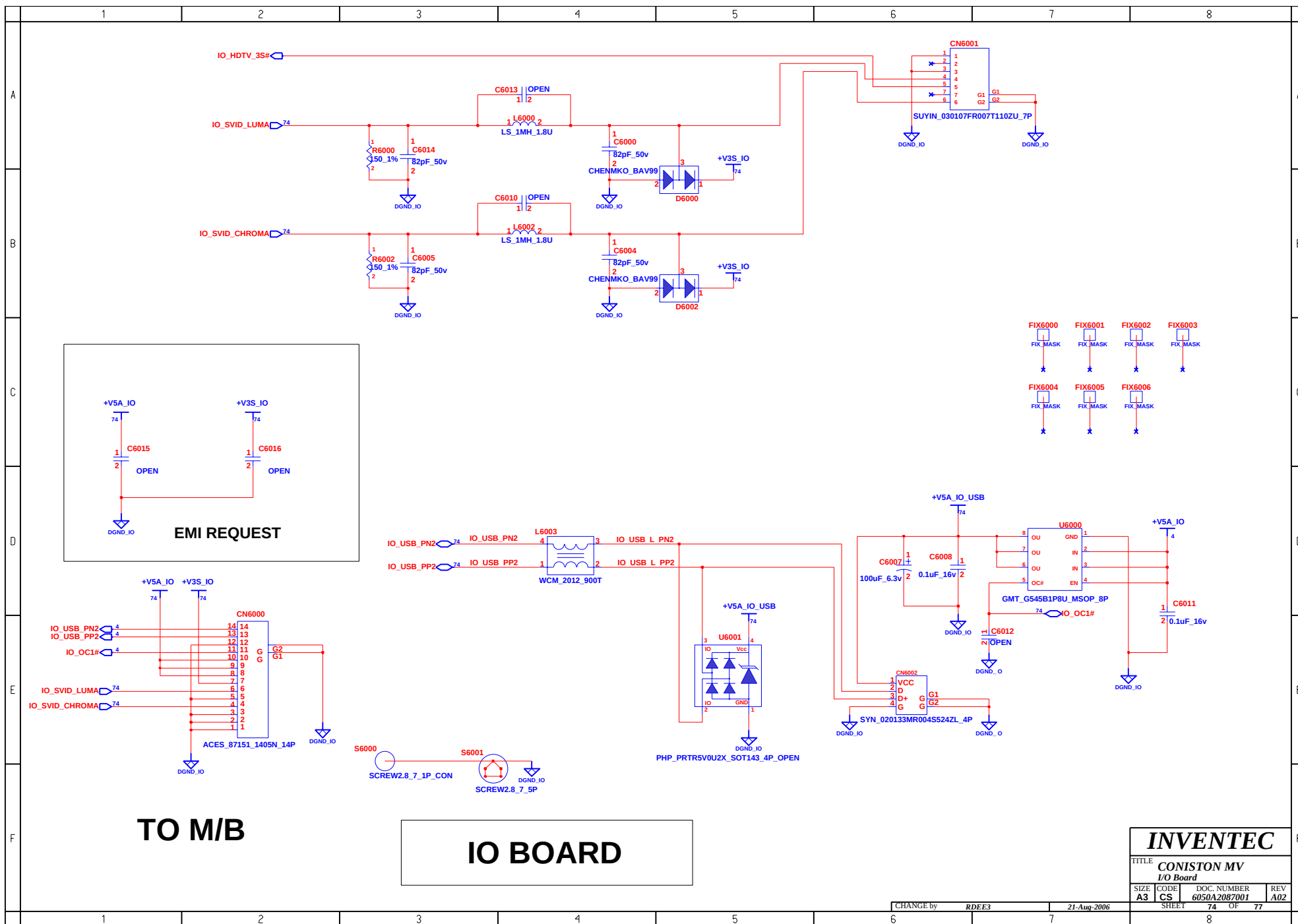


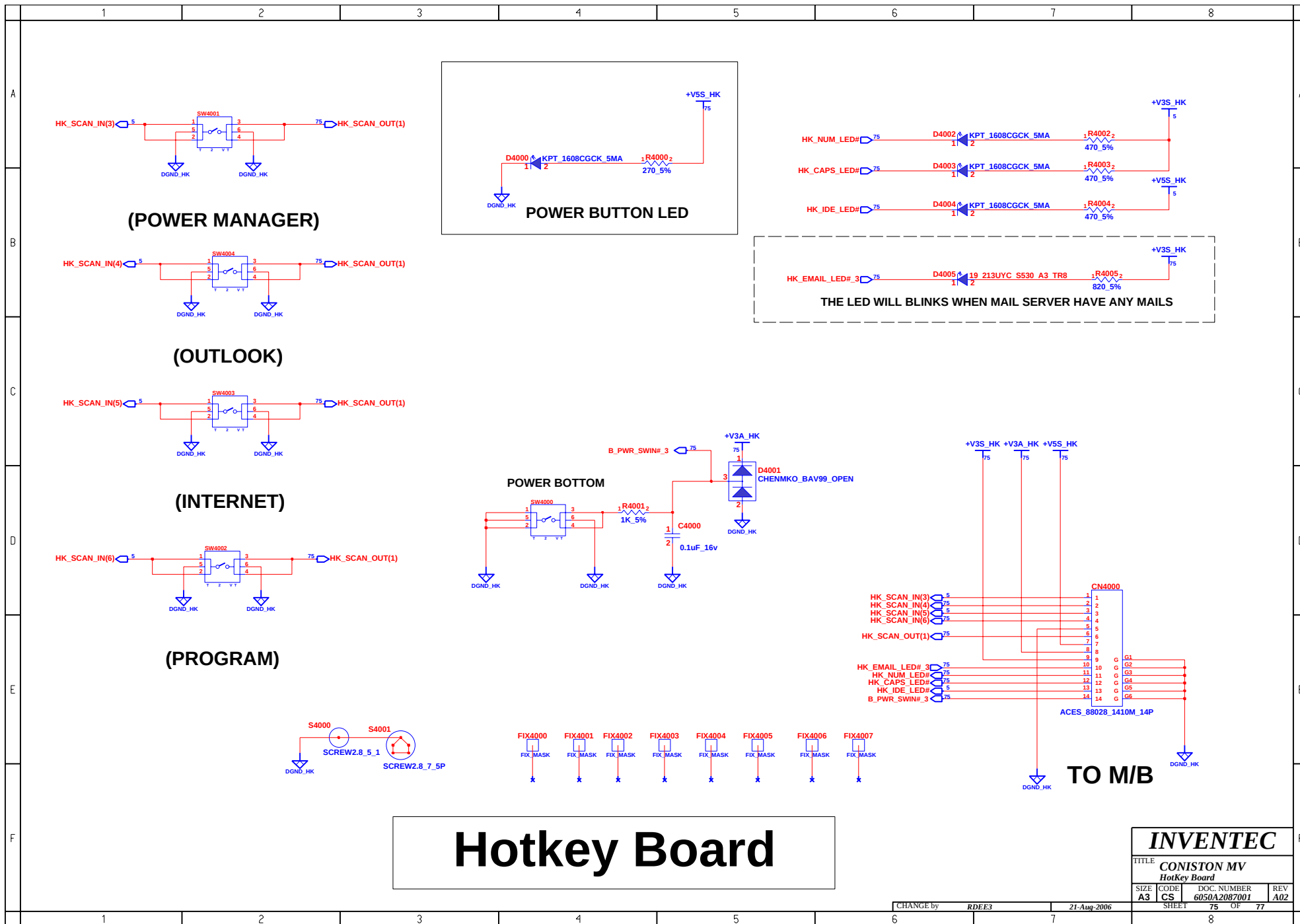


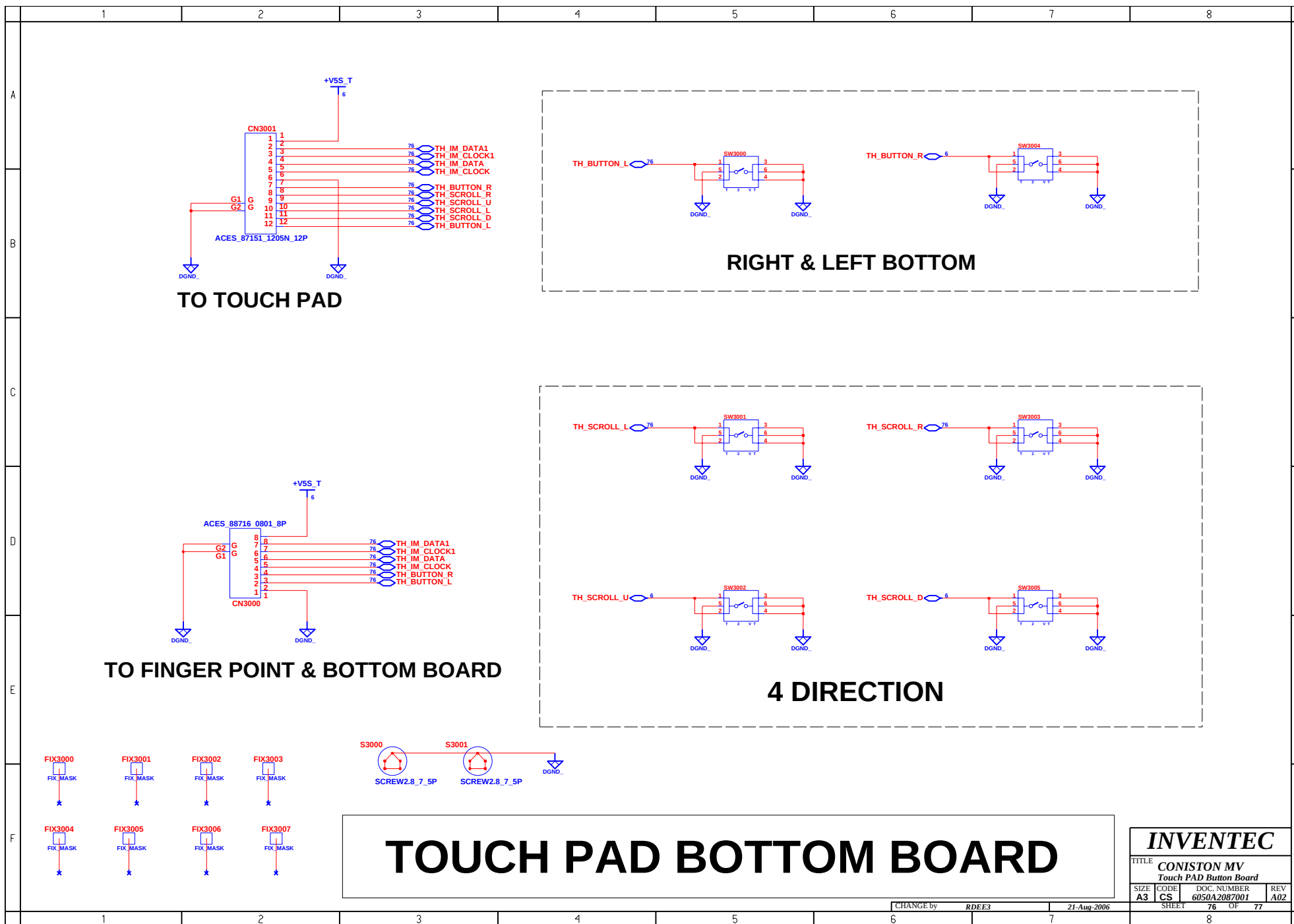
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
						6	7	8	

INVENTEC

TITLE <i>CONISTON MV Finger PRINTER Board</i>			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 73 OF 77			





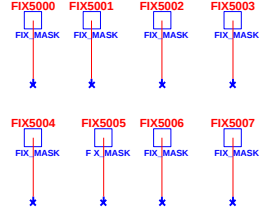
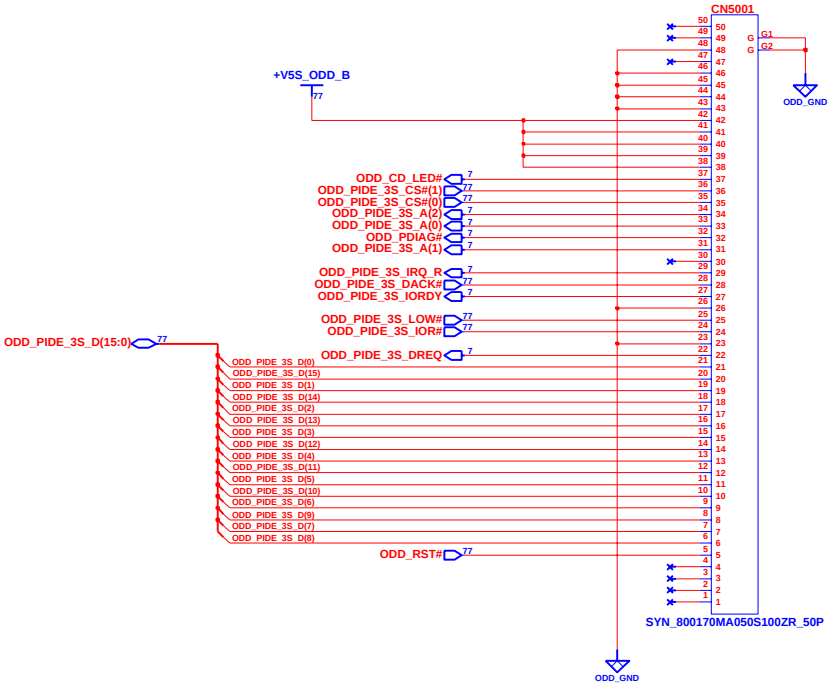
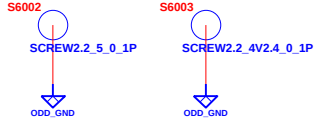
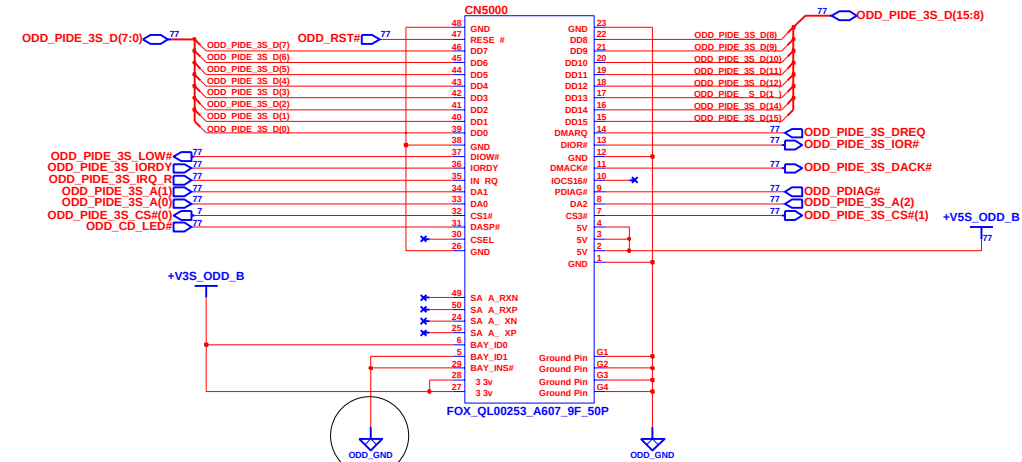


INVENTEC		
TITLE CONISTON MV Touch PAD Button Board		
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001
SHEET 76		REV A02

CHANGE by RDEE3 21-Aug-2006

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BAY_ID0	BAY_ID1	DEVICE
0	0	RESERVE
0	1	PATA HDD
1	0	PATA ODD
1	1	SATA HDD



INVENTEC

TITLE			CONISTON MV		
Multi-Bay ODD Board					
SIZE	CODE	DOC. NUMBER	REV		
A3	CS	6050A2087001	A02		

CHANGE by RDEE3 21-Aug-2006

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