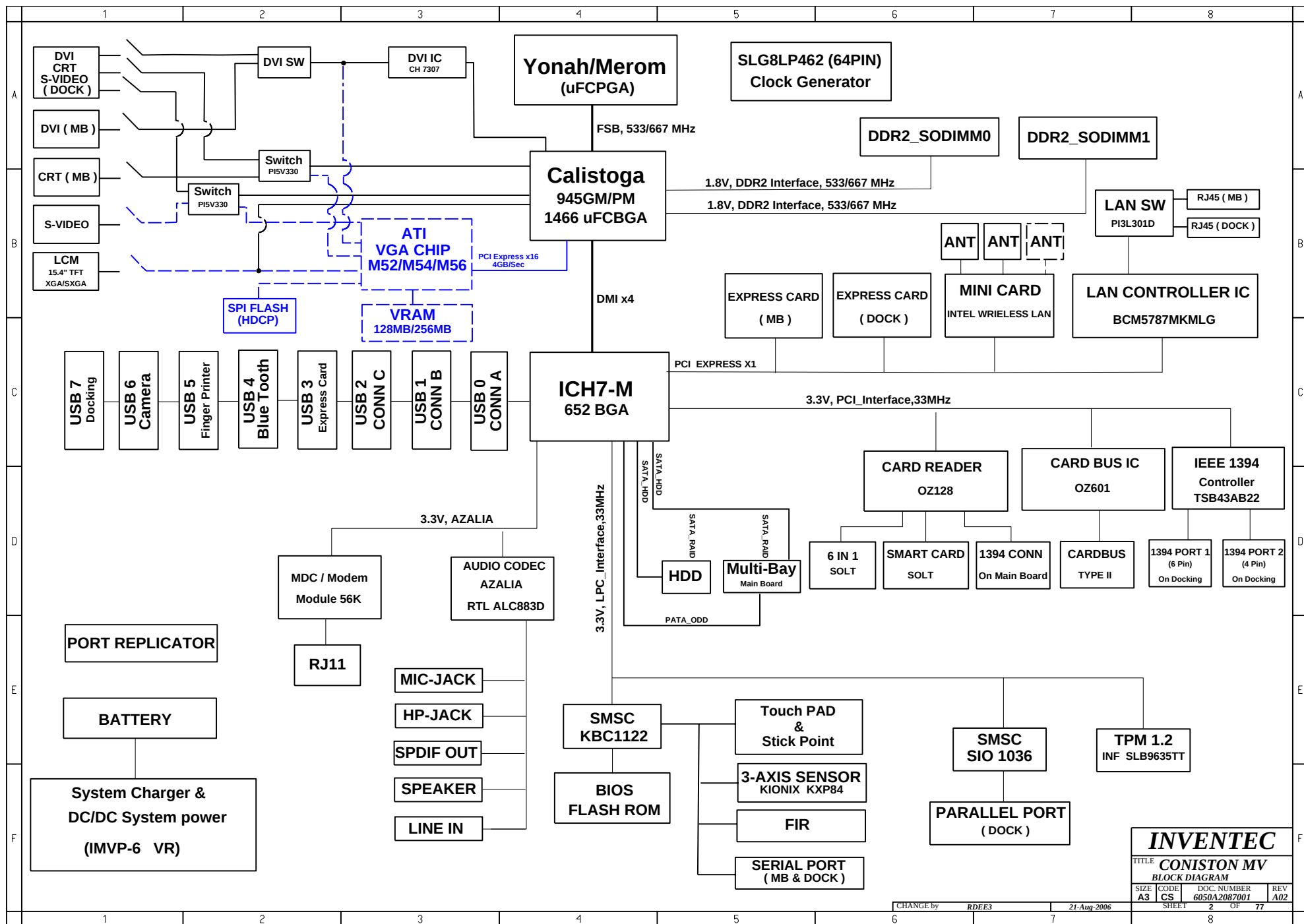


CONISTON 1.0

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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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26	DDR II DECOUPLING	52	KBC CONTROLLER		

DATE	CHANGE NO.	REV
1		2

DRAWER	EE	DATE	POWER	DATE	INVENTEC TITLE CONISTON MV		
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



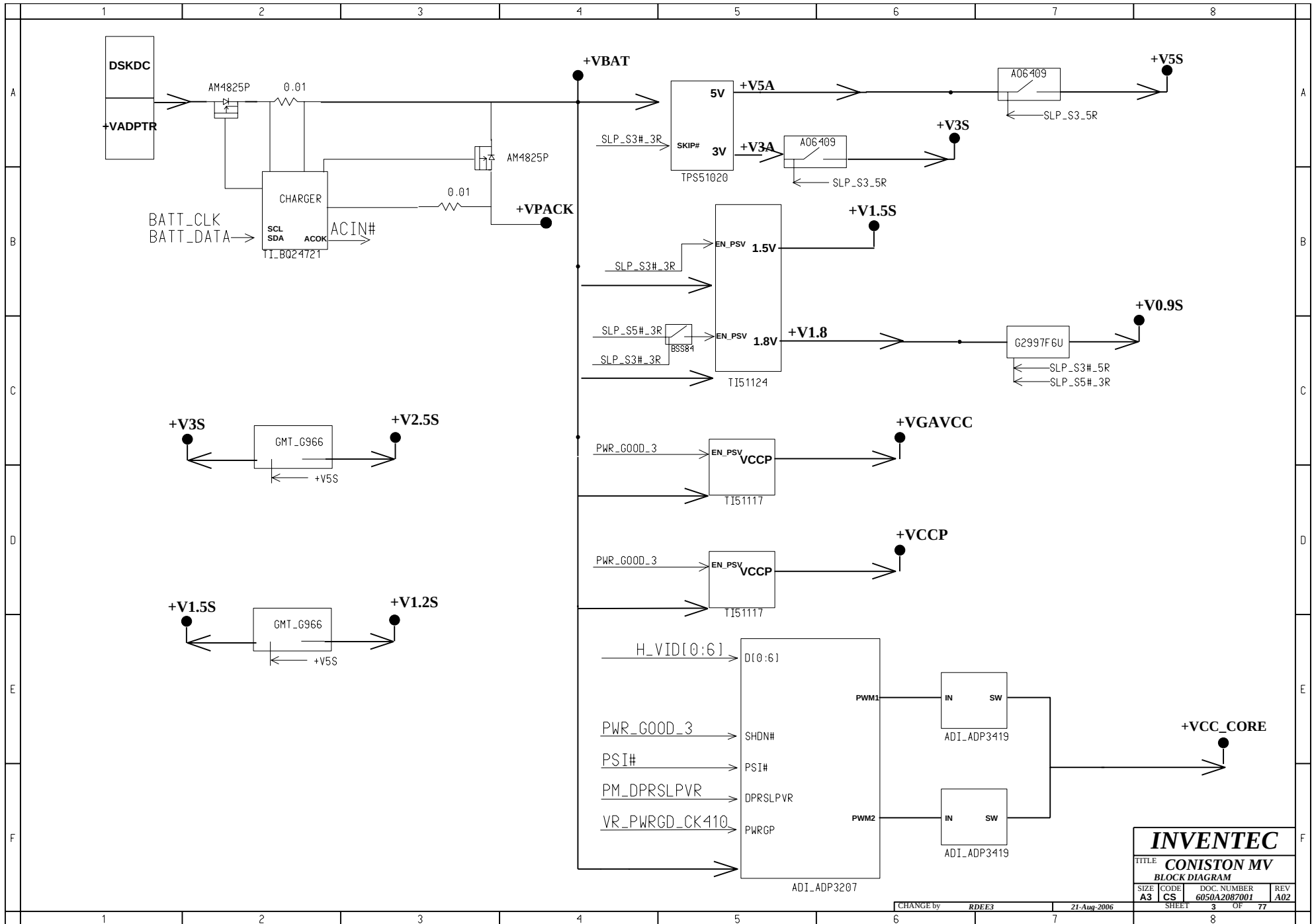
INVENTEC

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



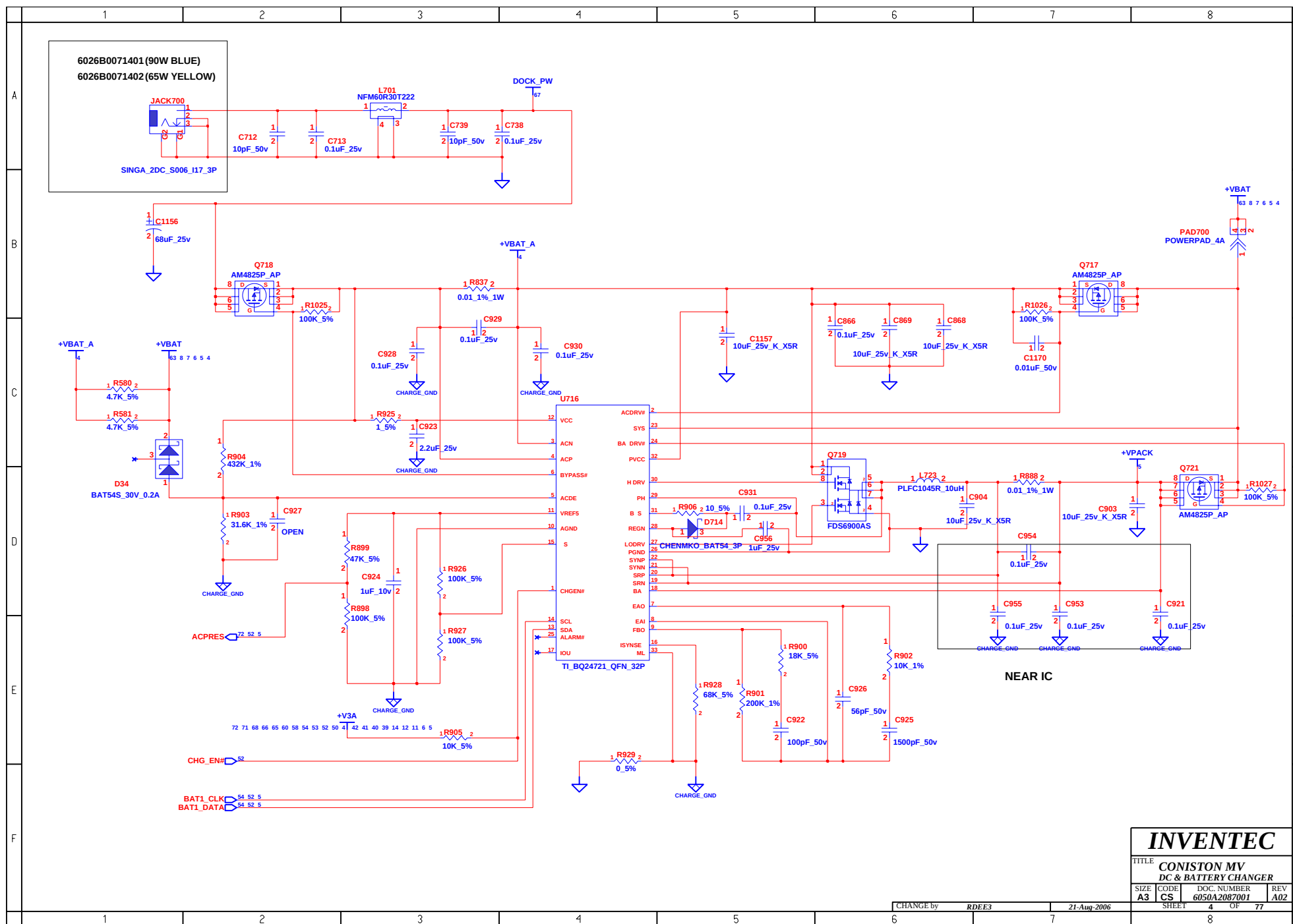
INVENTEC

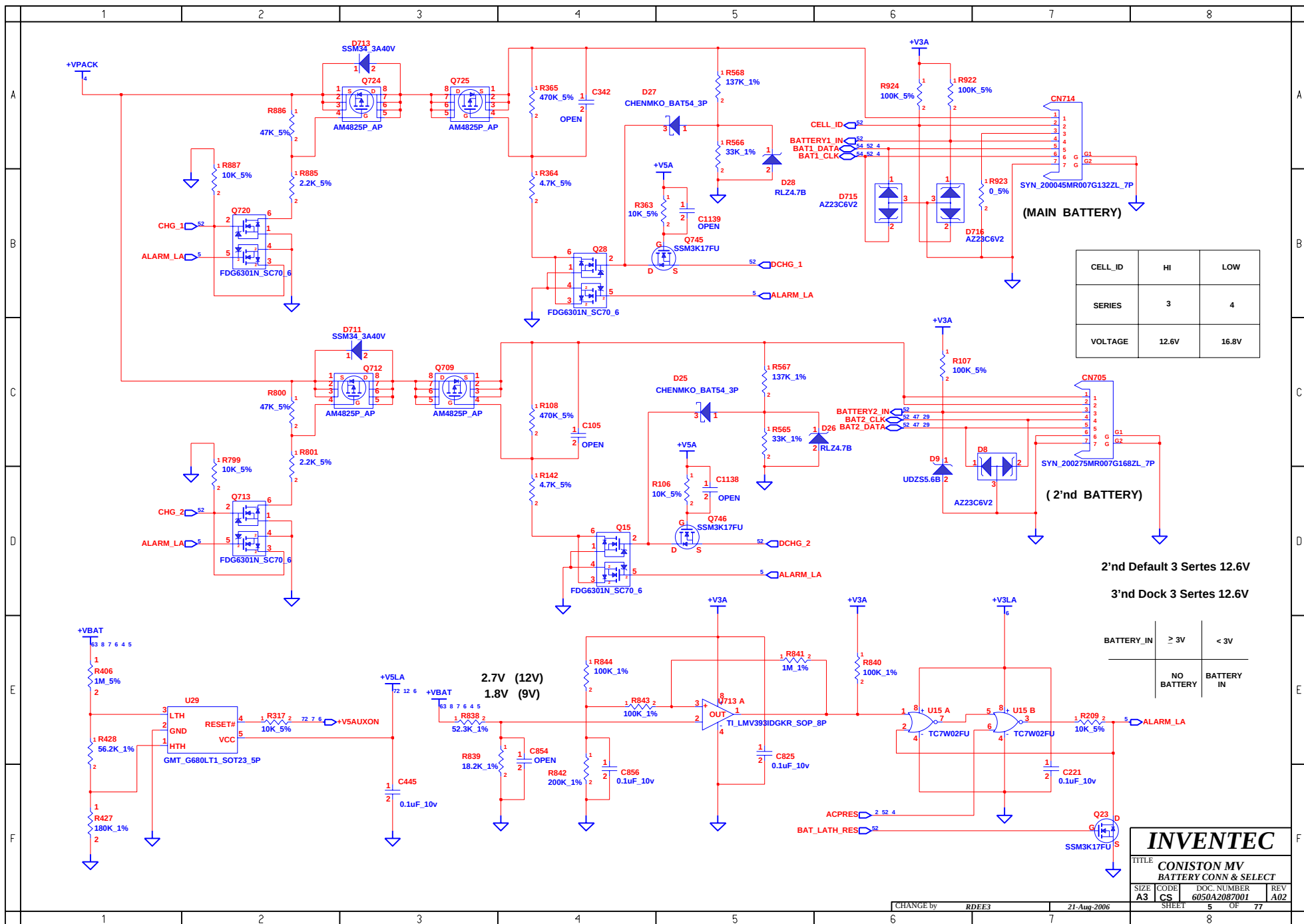
TITLE **CONISTON MV**
BLOCK DIAGRAM

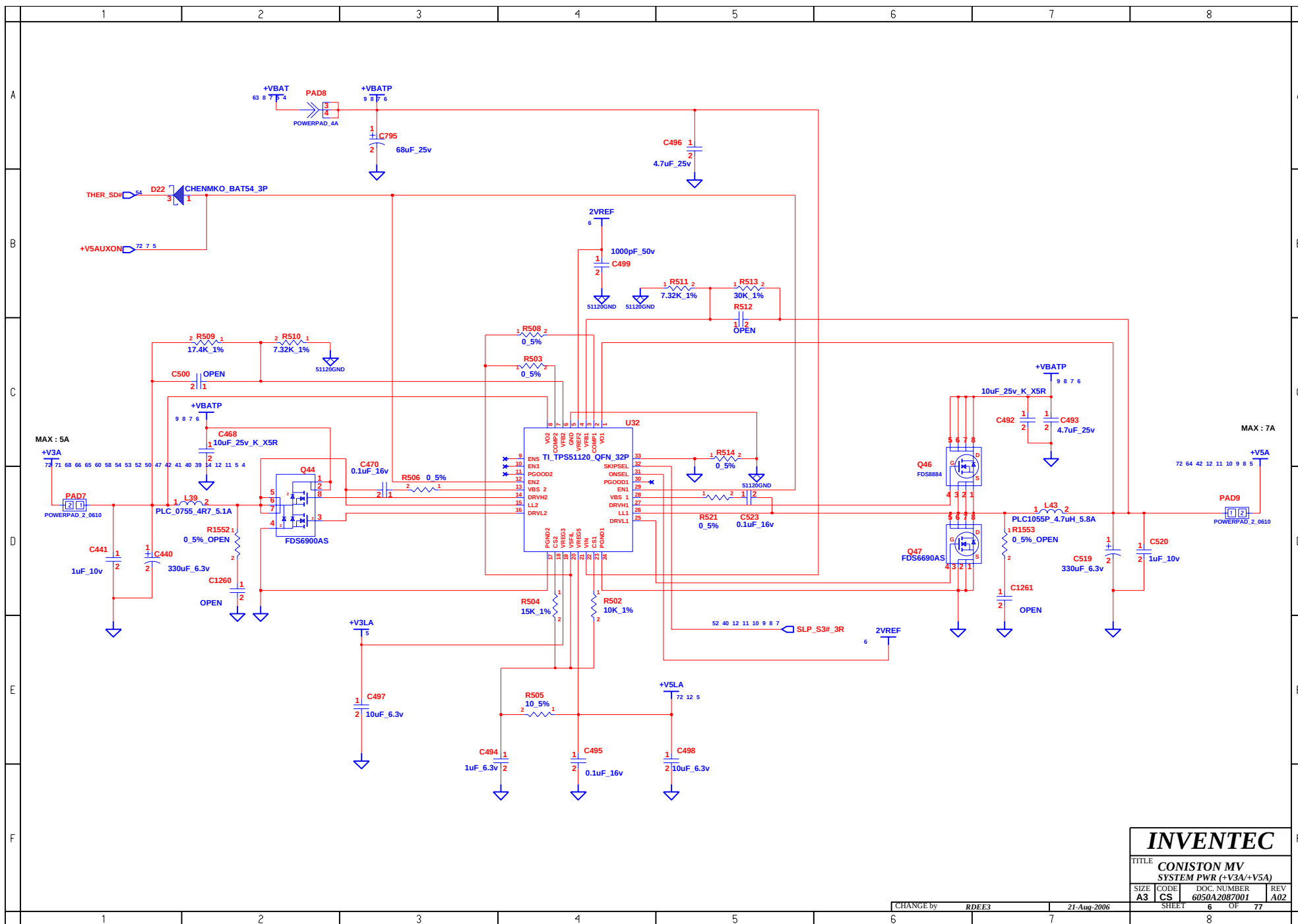
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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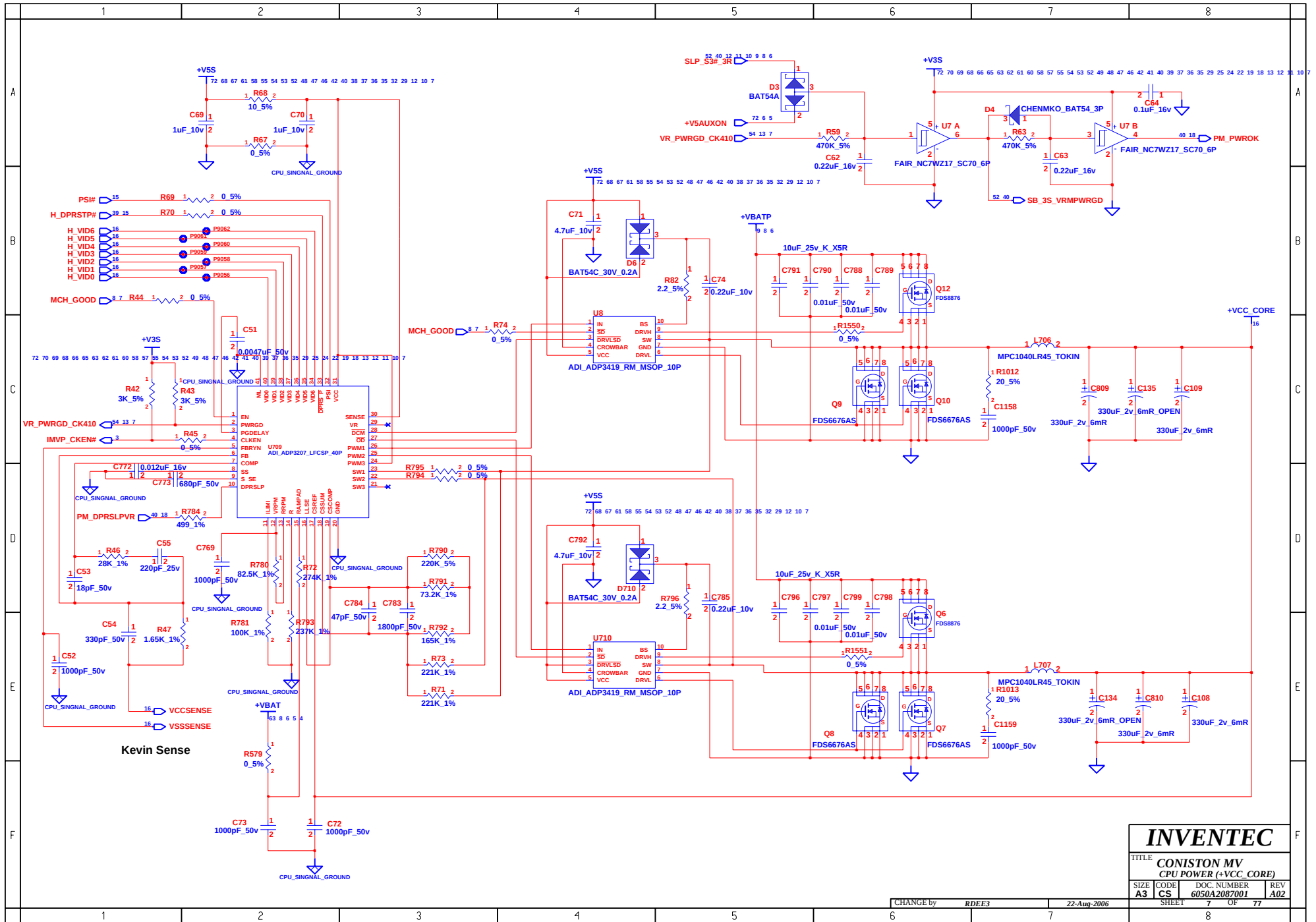
CHANGE by **RDEE3** 21-Aug-2006

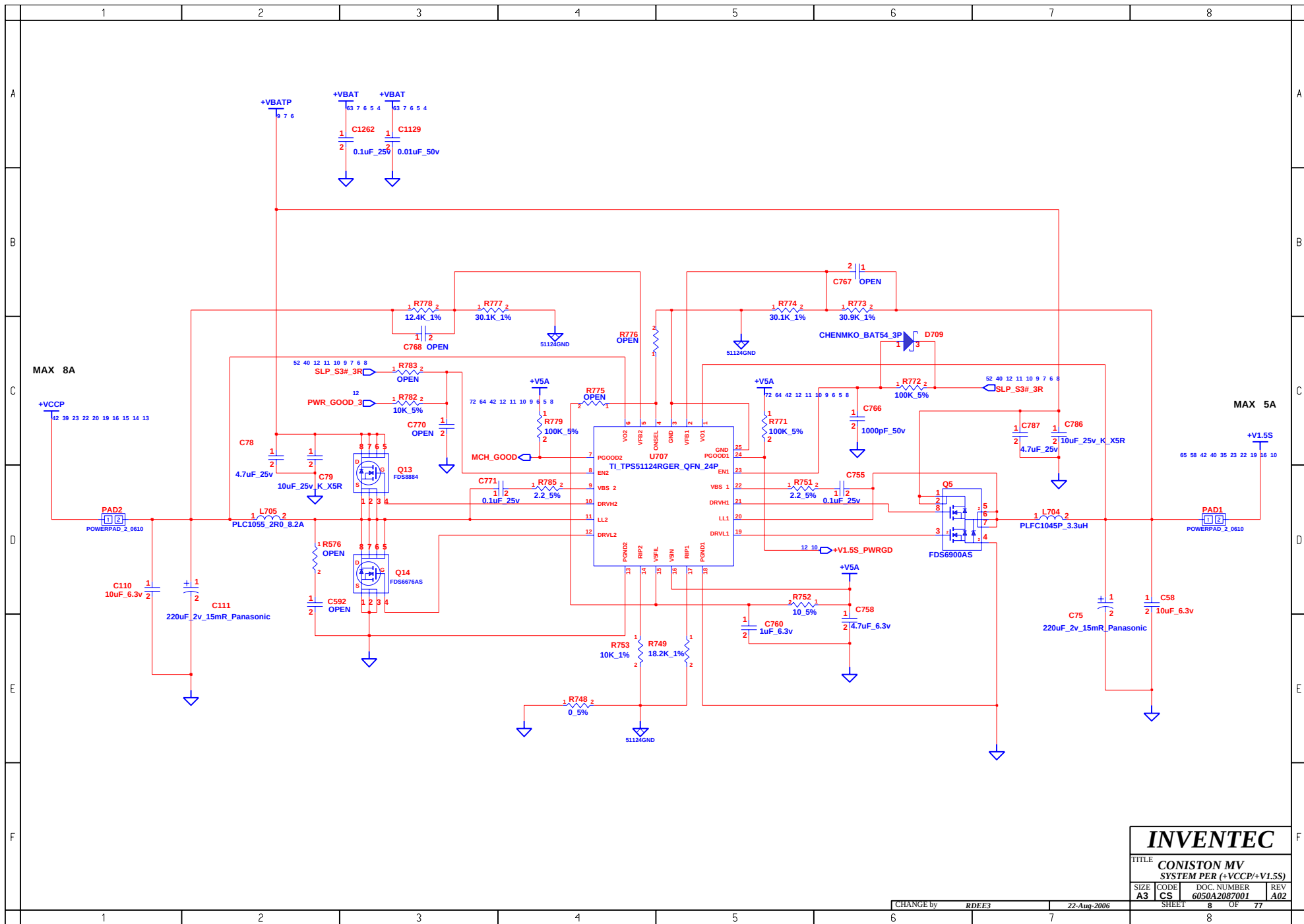
SHEET 3 OF 77

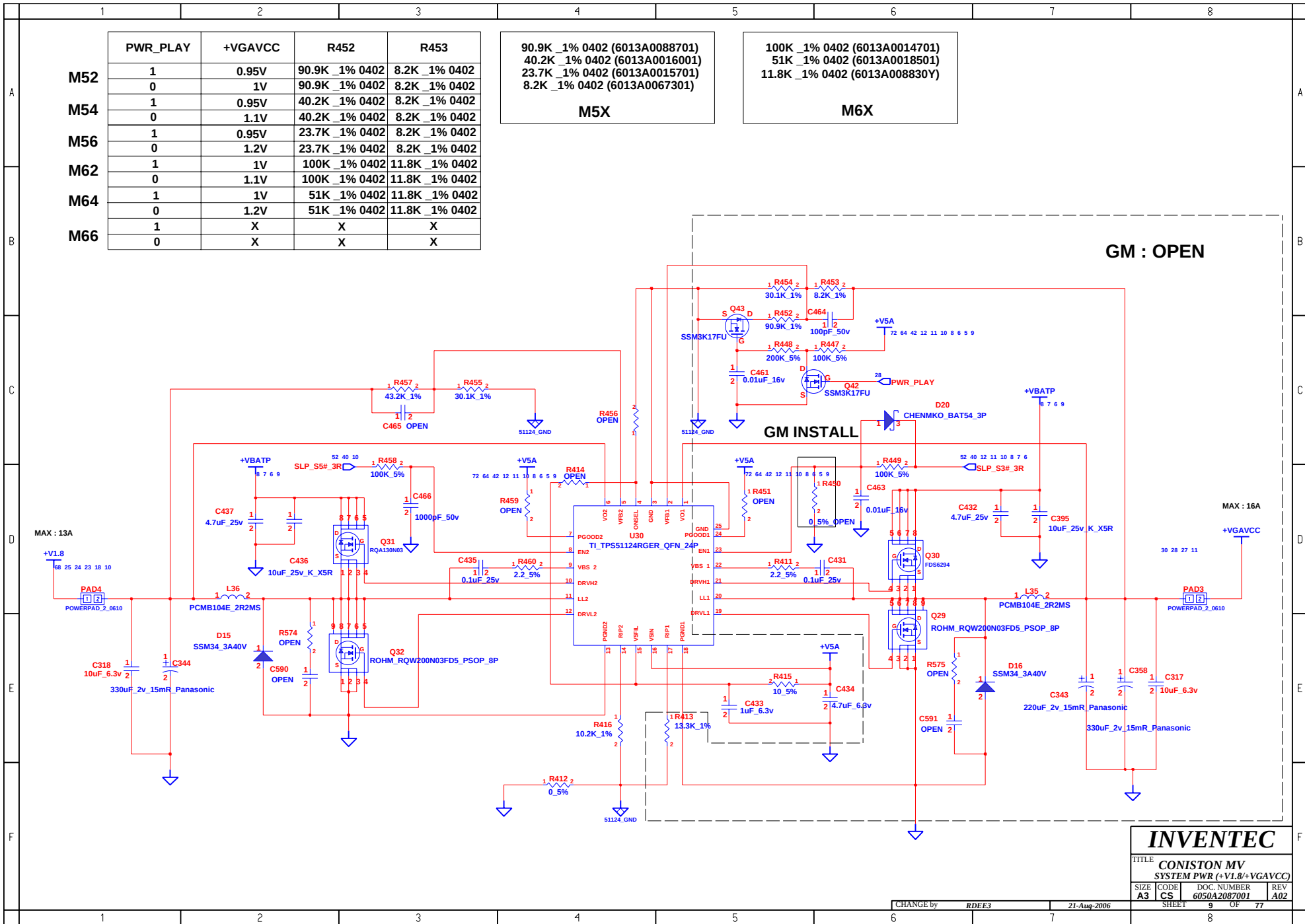


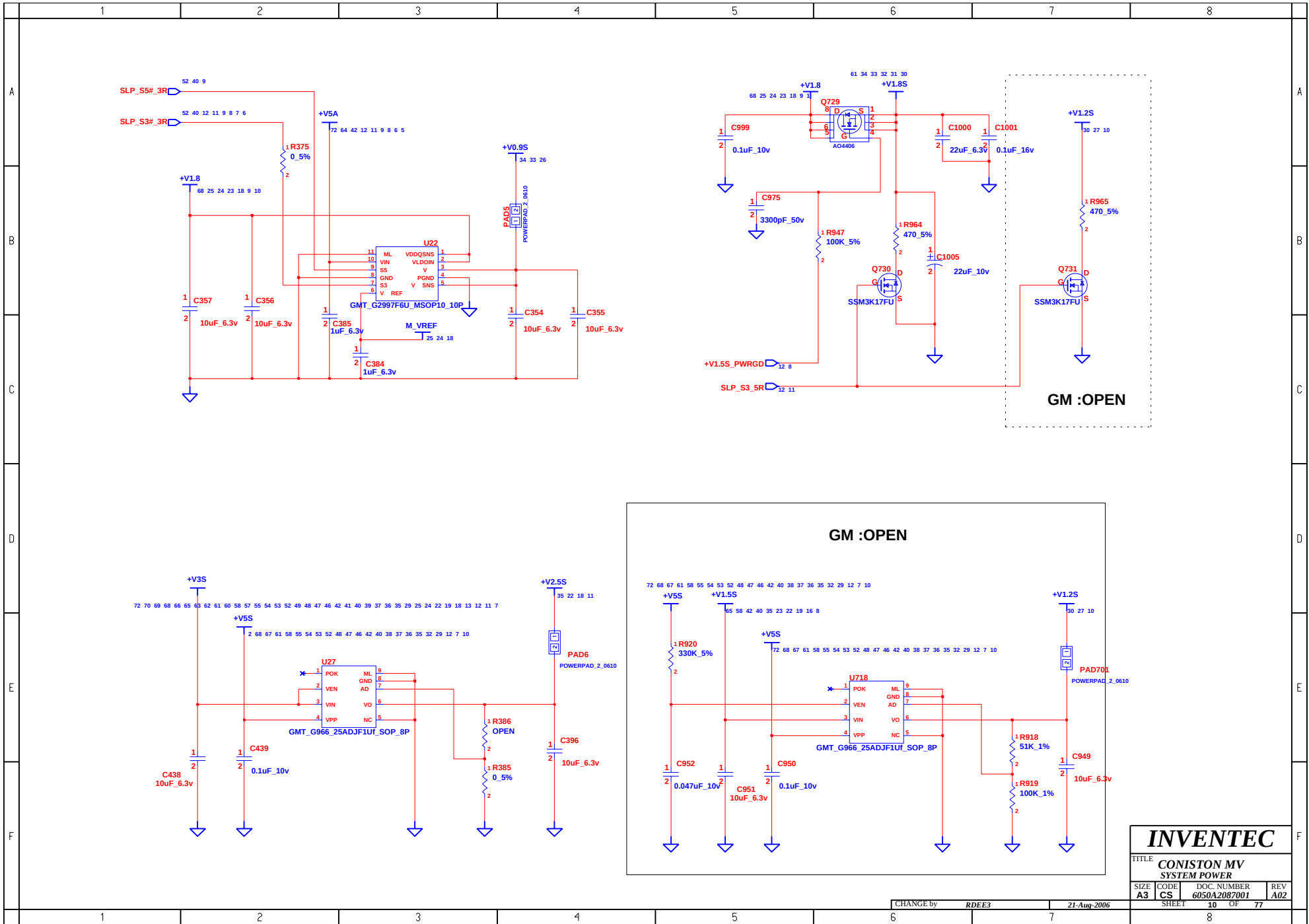












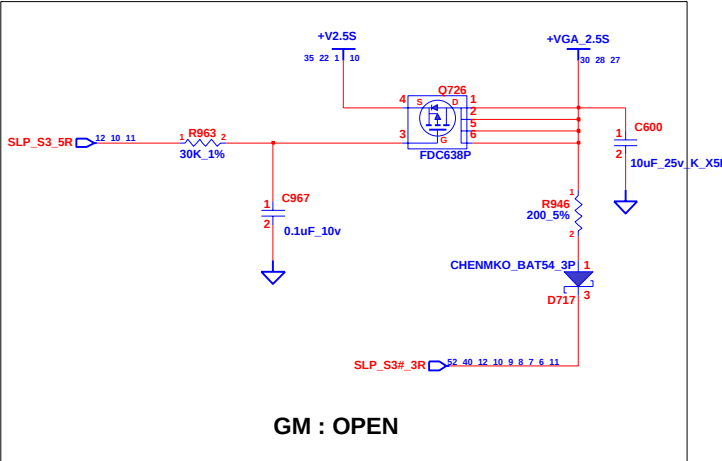
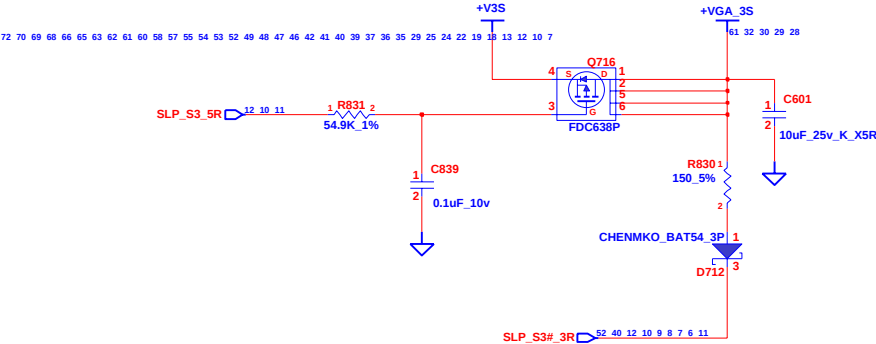
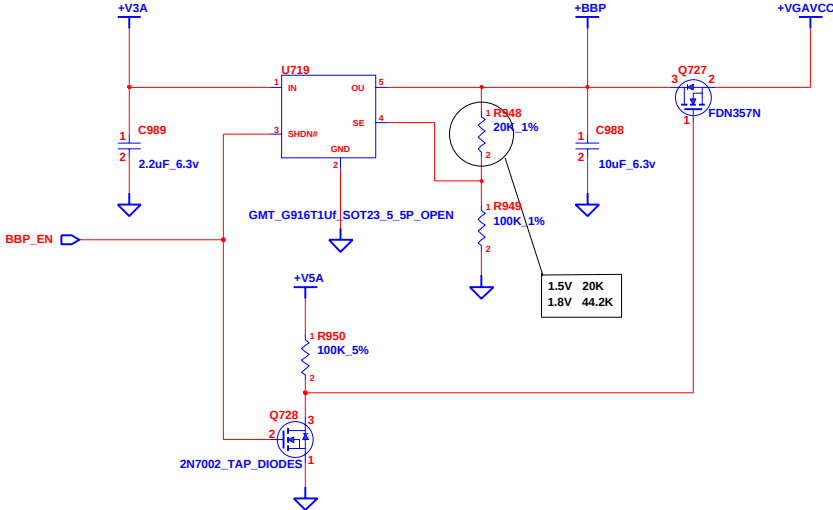
INVENTEC

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

CHANGE by RDEE3 21-Aug-2006

SHEET 10 OF 77

ONLY FOR M56

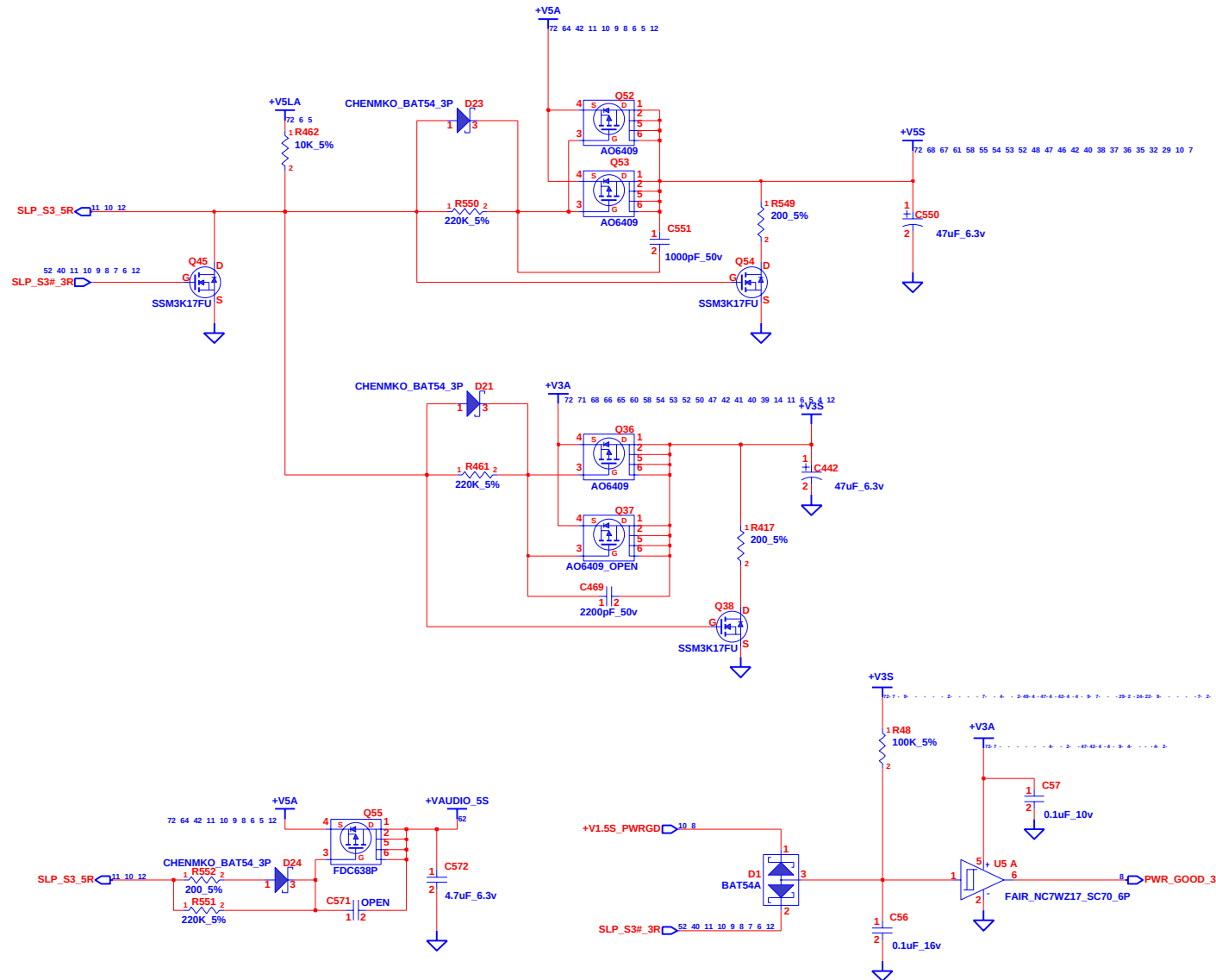


GM : OPEN

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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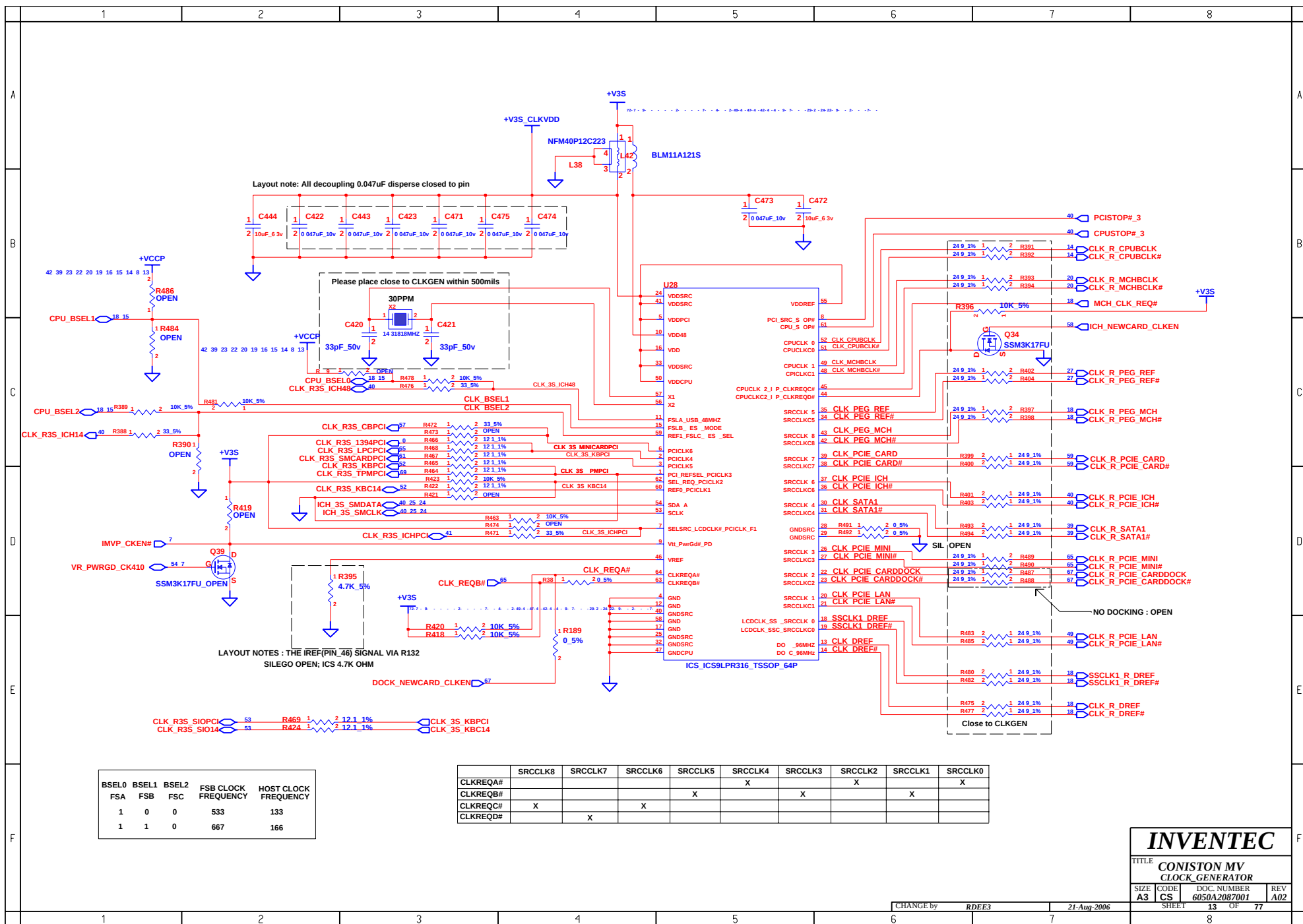


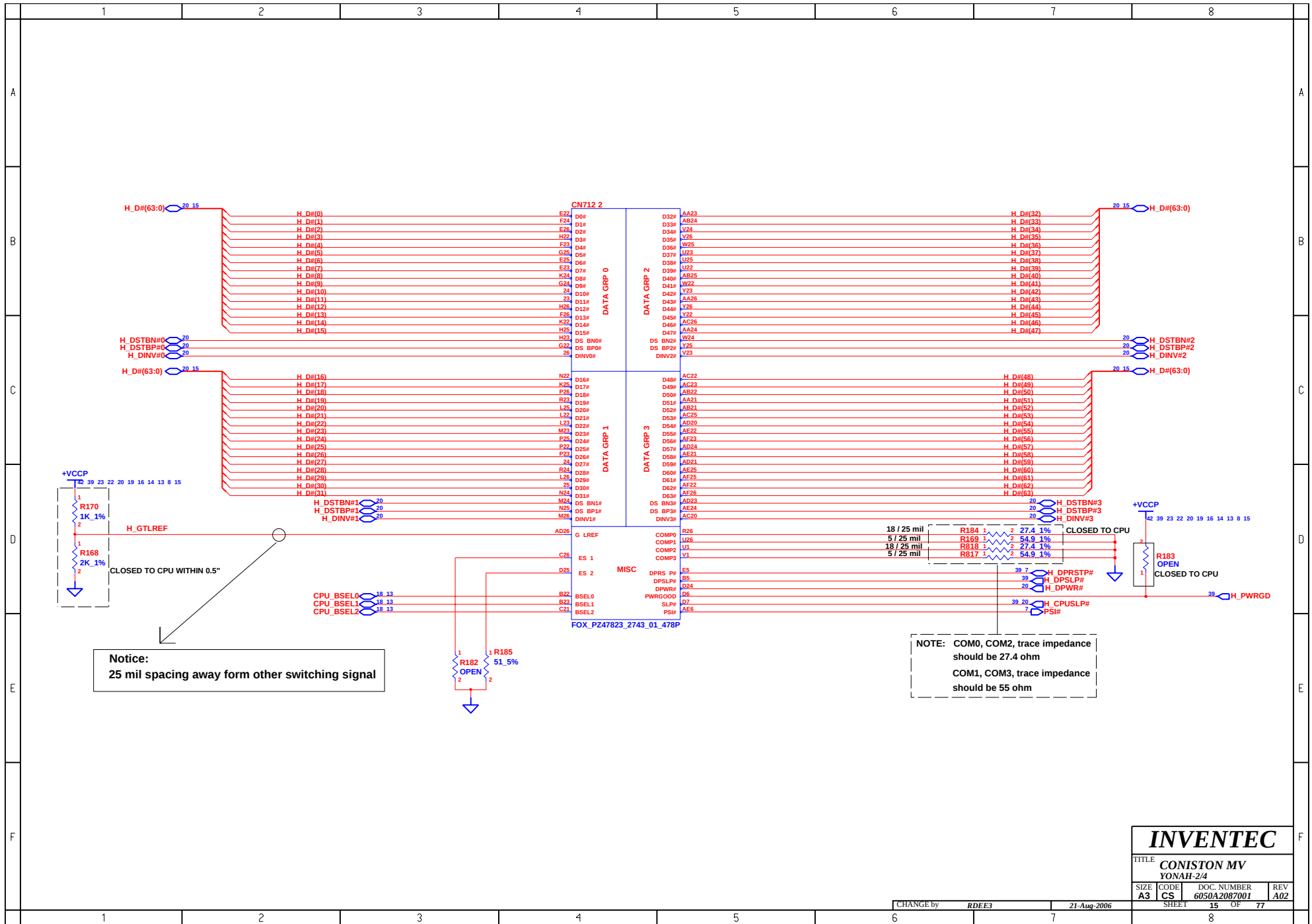
INVENTEC

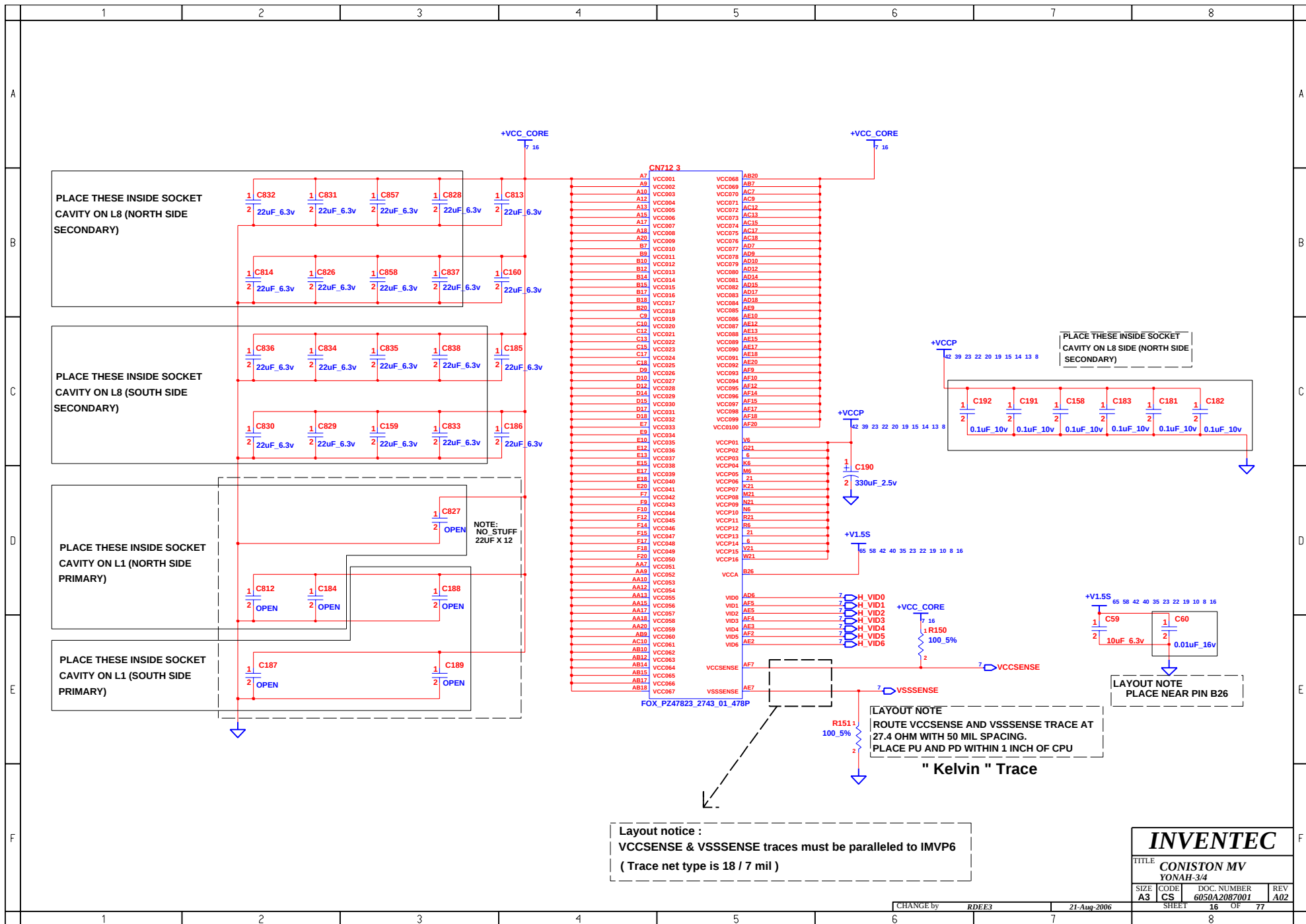
TITLE CONISTON MV SYSTEM POWER			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02

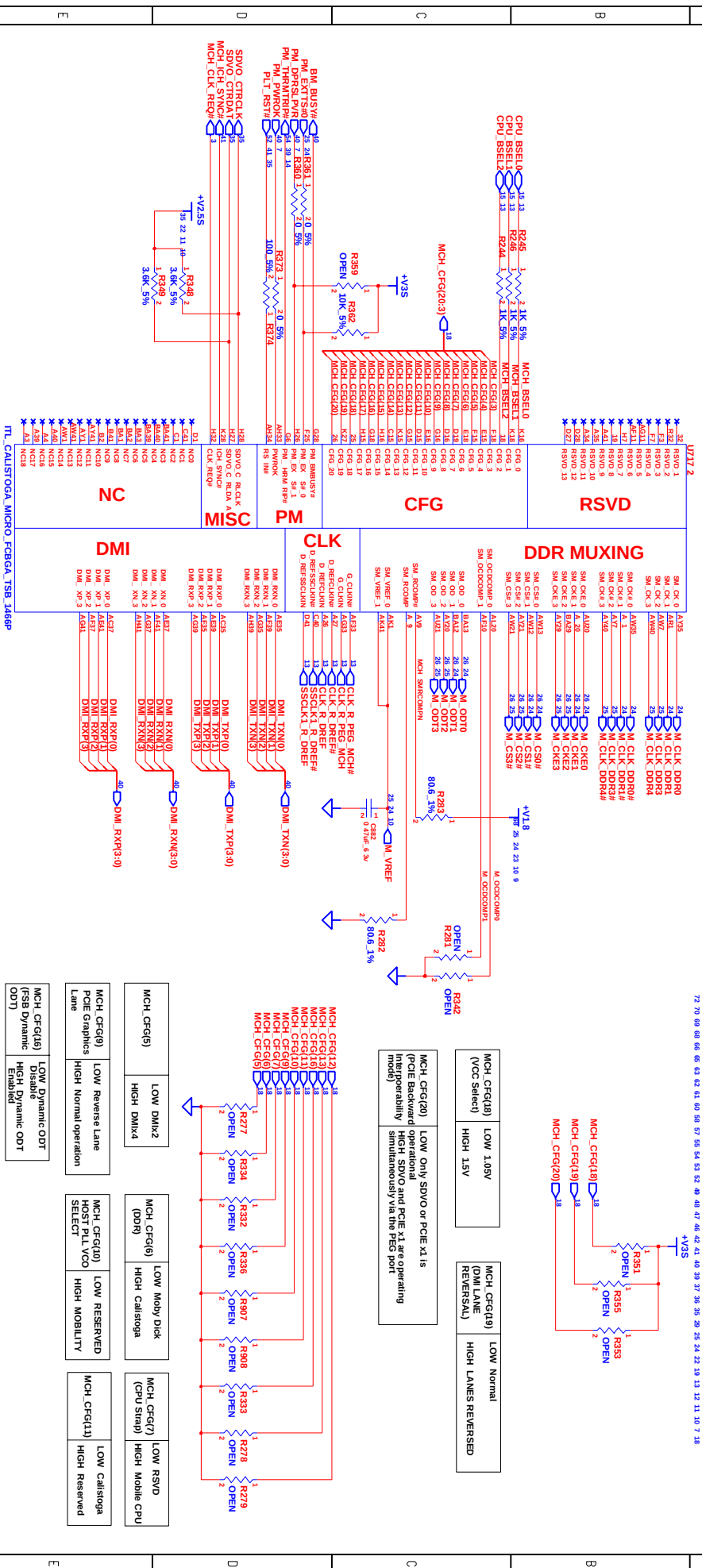
CHANGE by RDEE3 21-Aug-2006

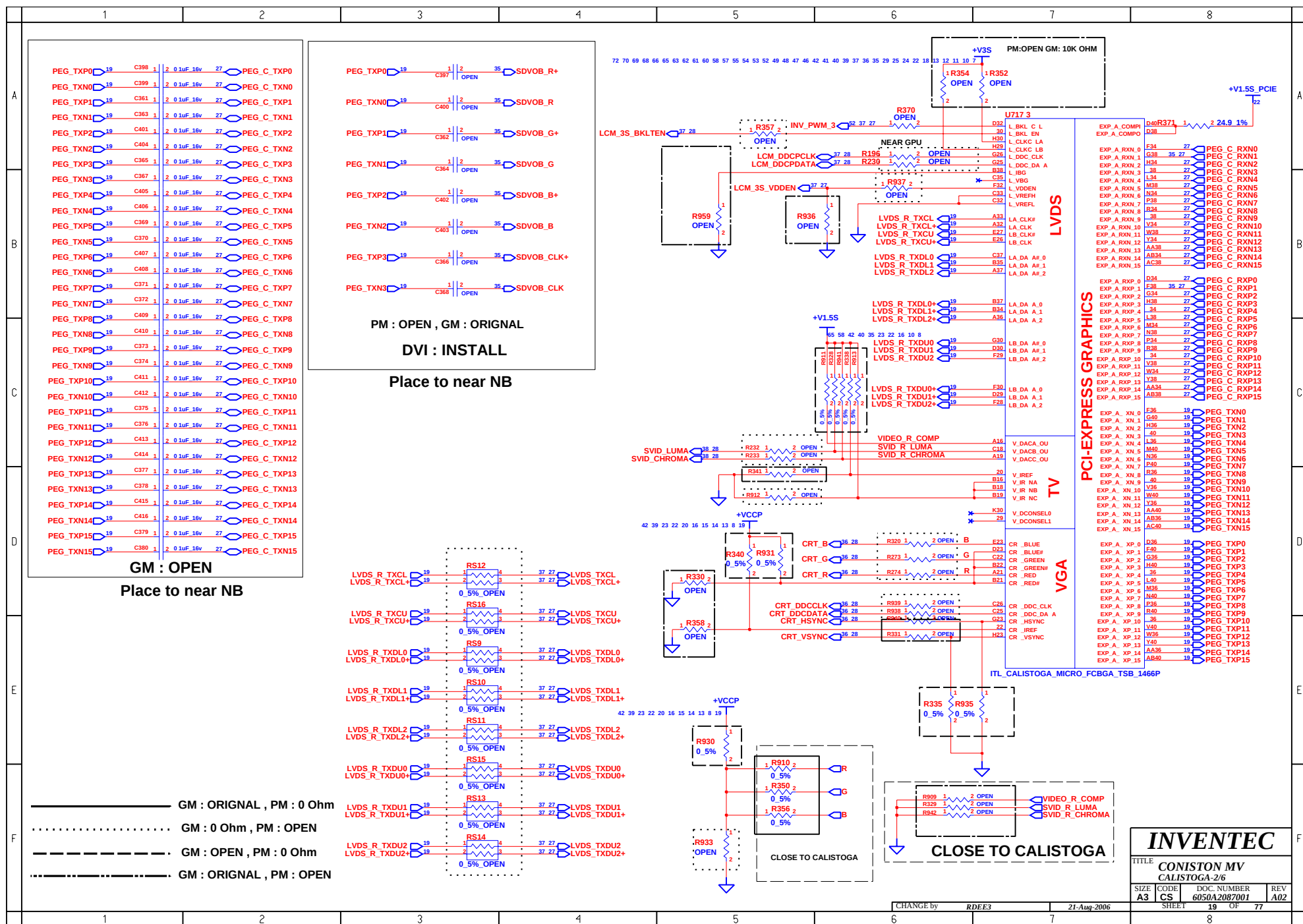
SHEET 12 OF 77

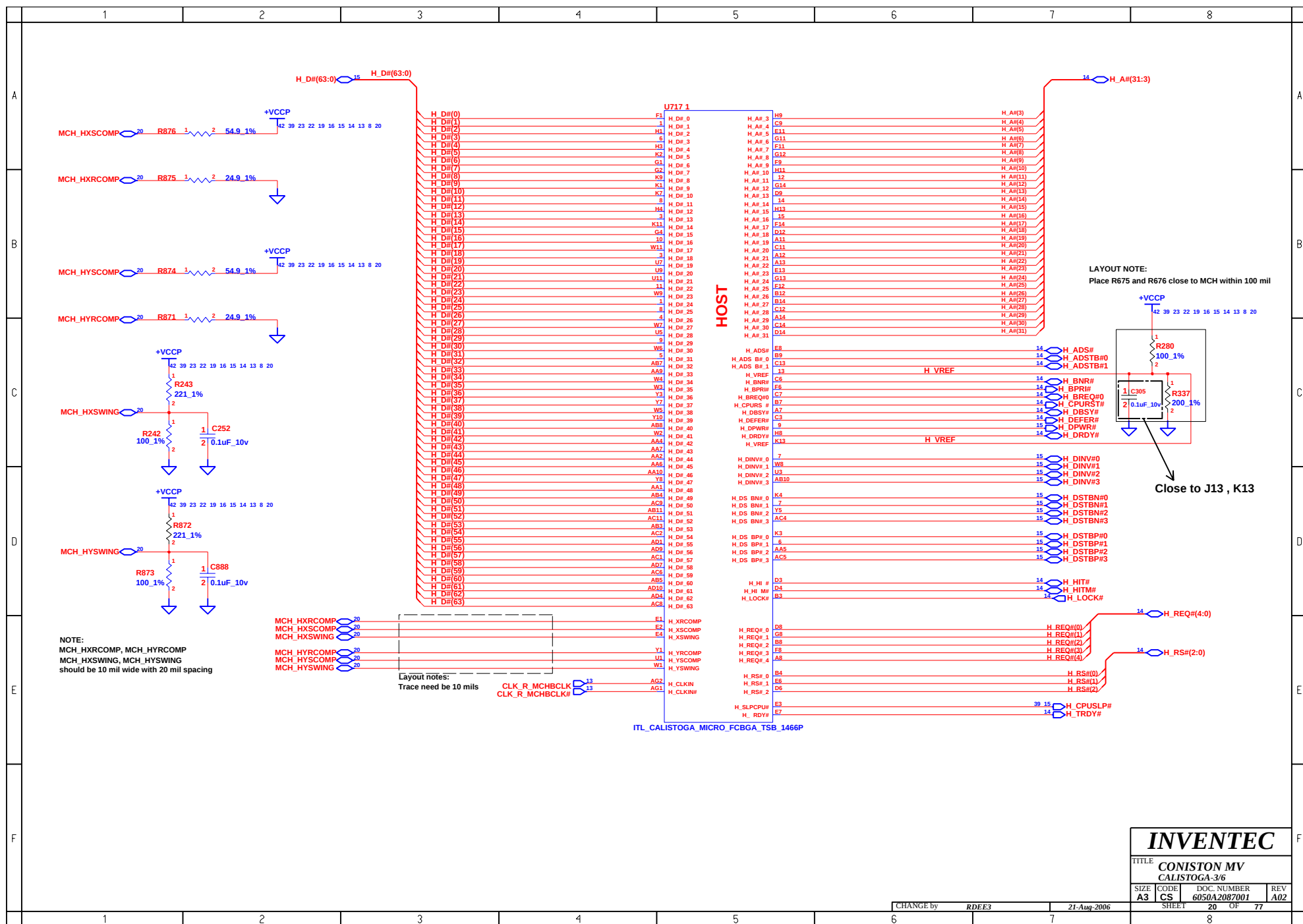


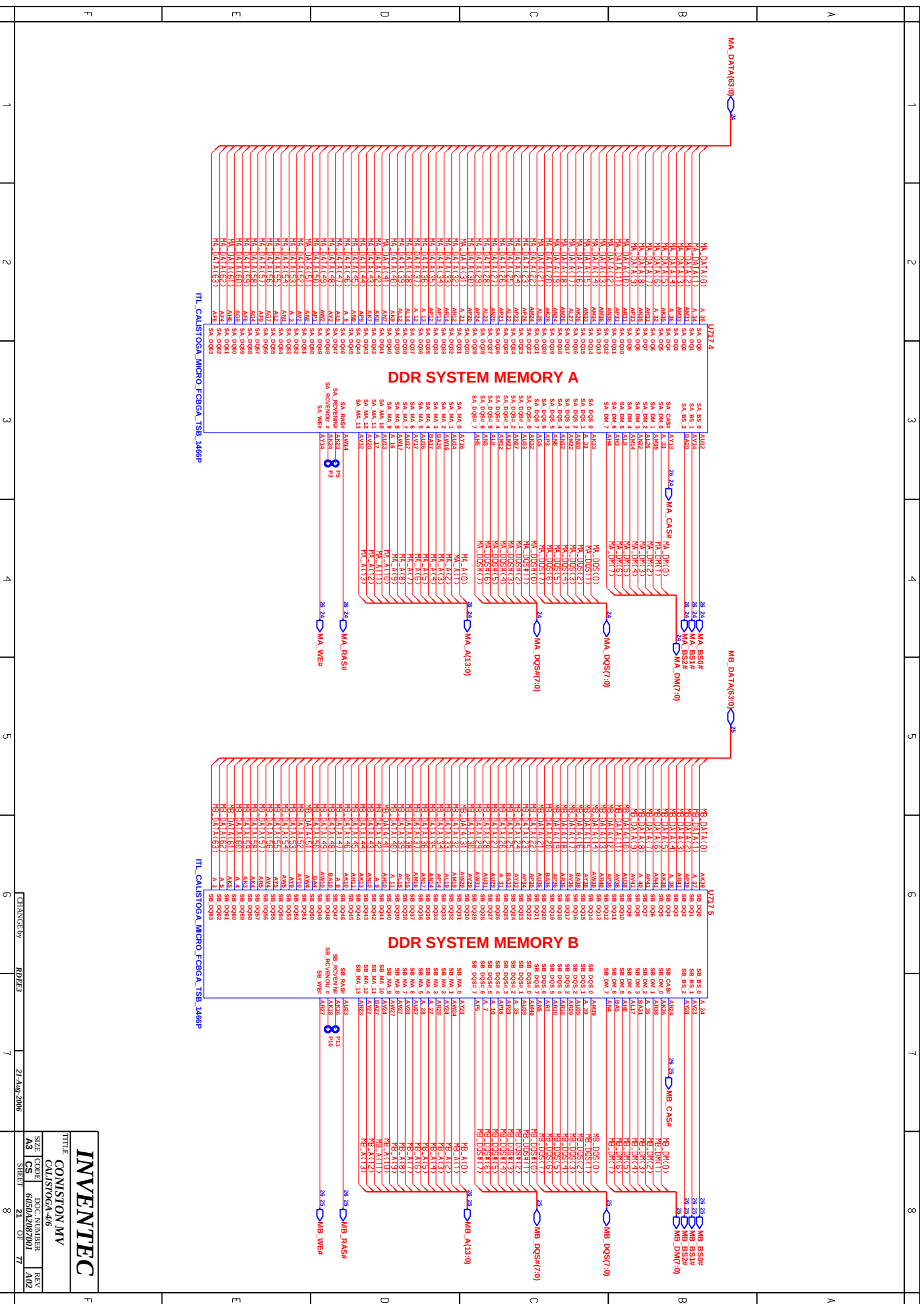


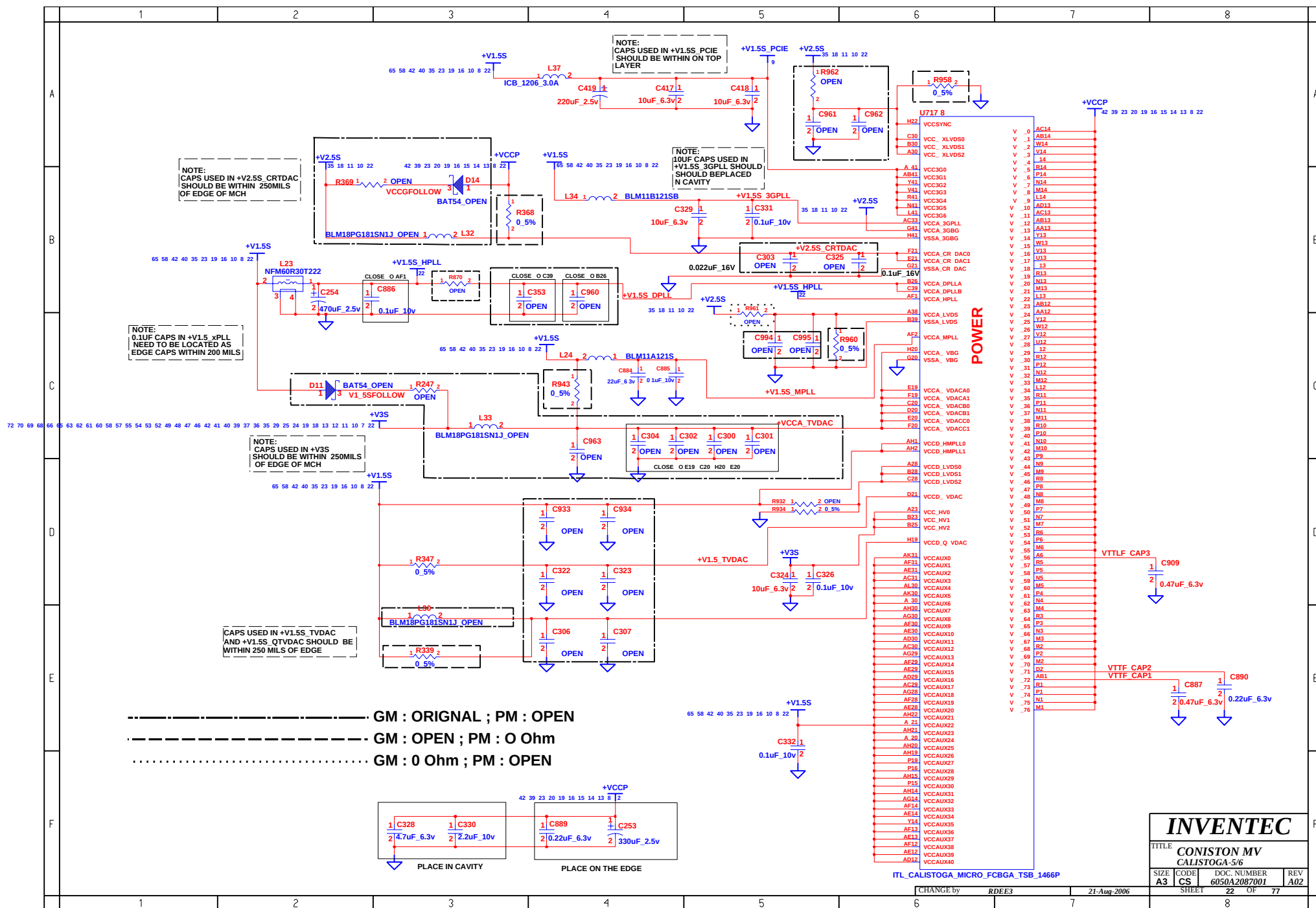


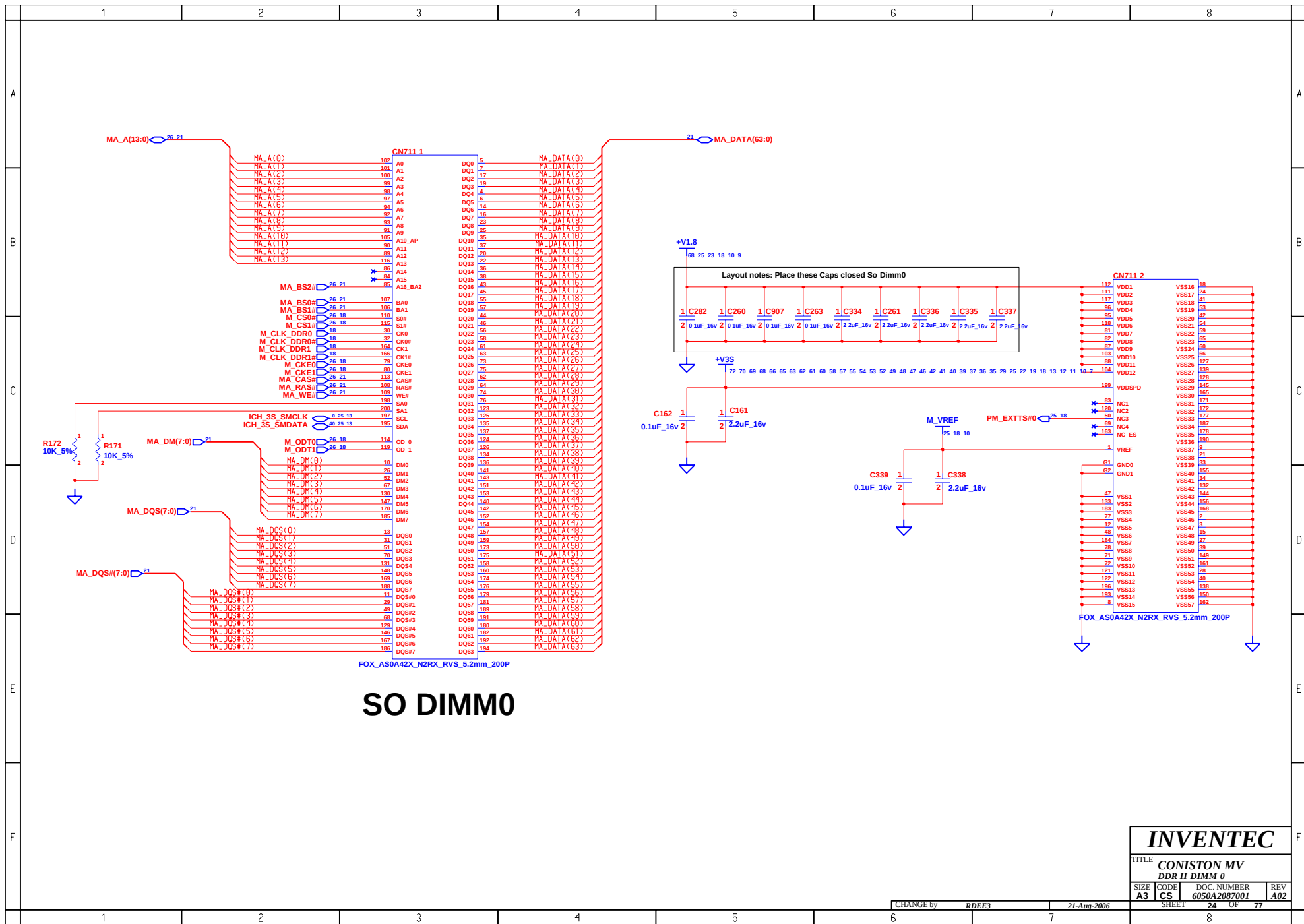












SO DIMM0

FOX_AS0A42X_N2RX_RVS_5.2mm_200P

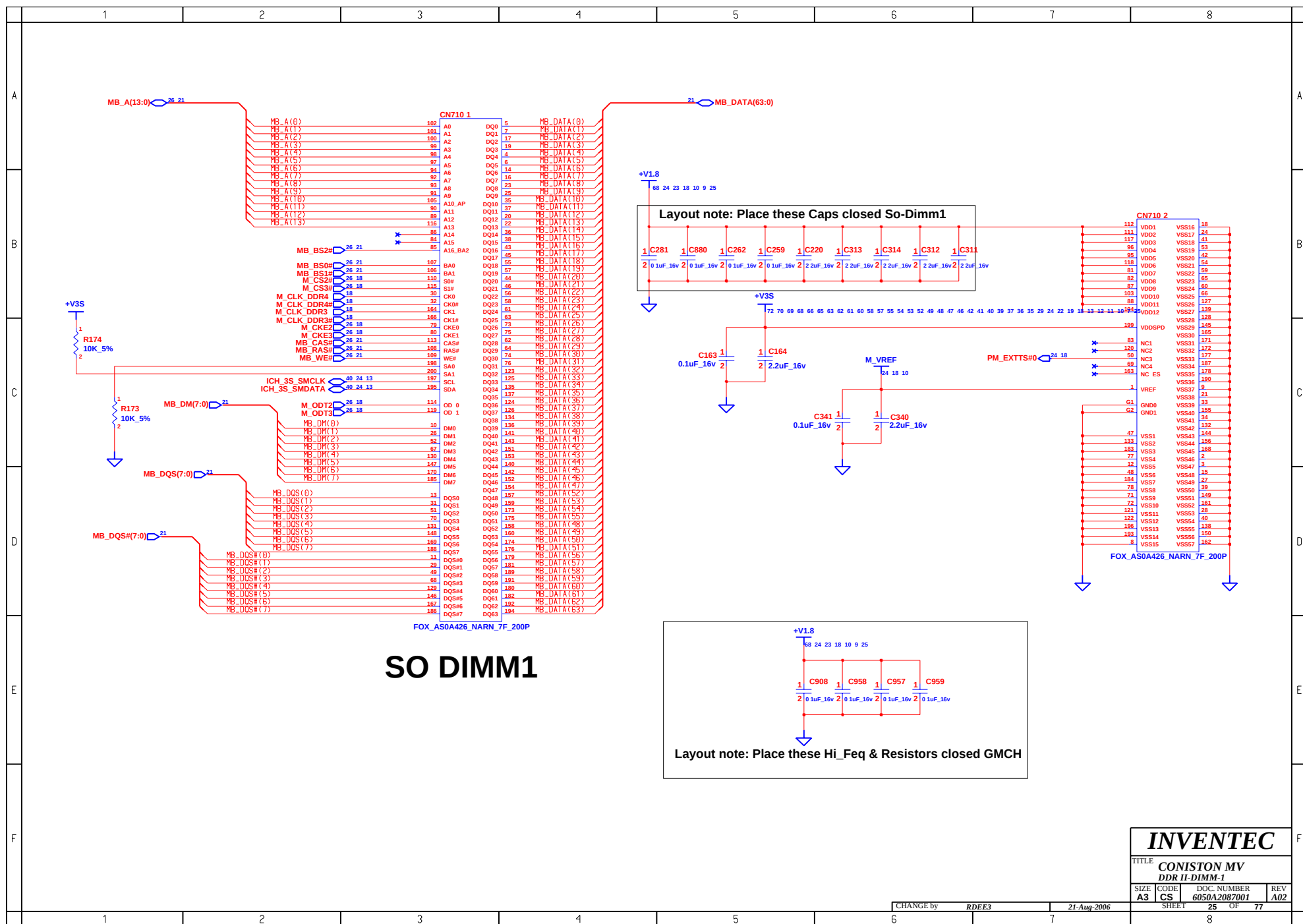
INVENTEC

TITLE
CONISTON MV
DDR II-DIMM-0

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by RDEE3 21-Aug-2006

SHEET 24 OF 77





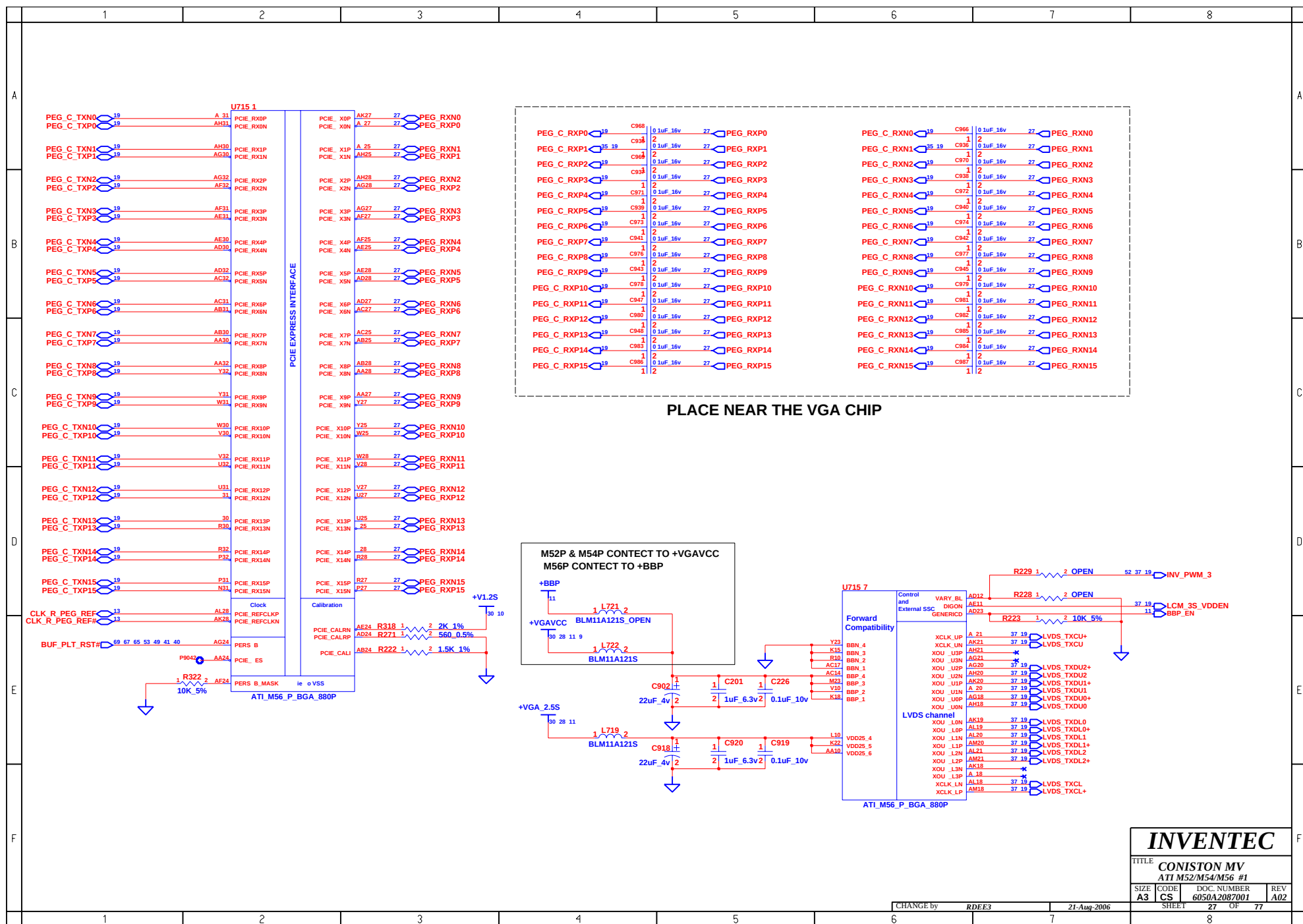
INVENTEC

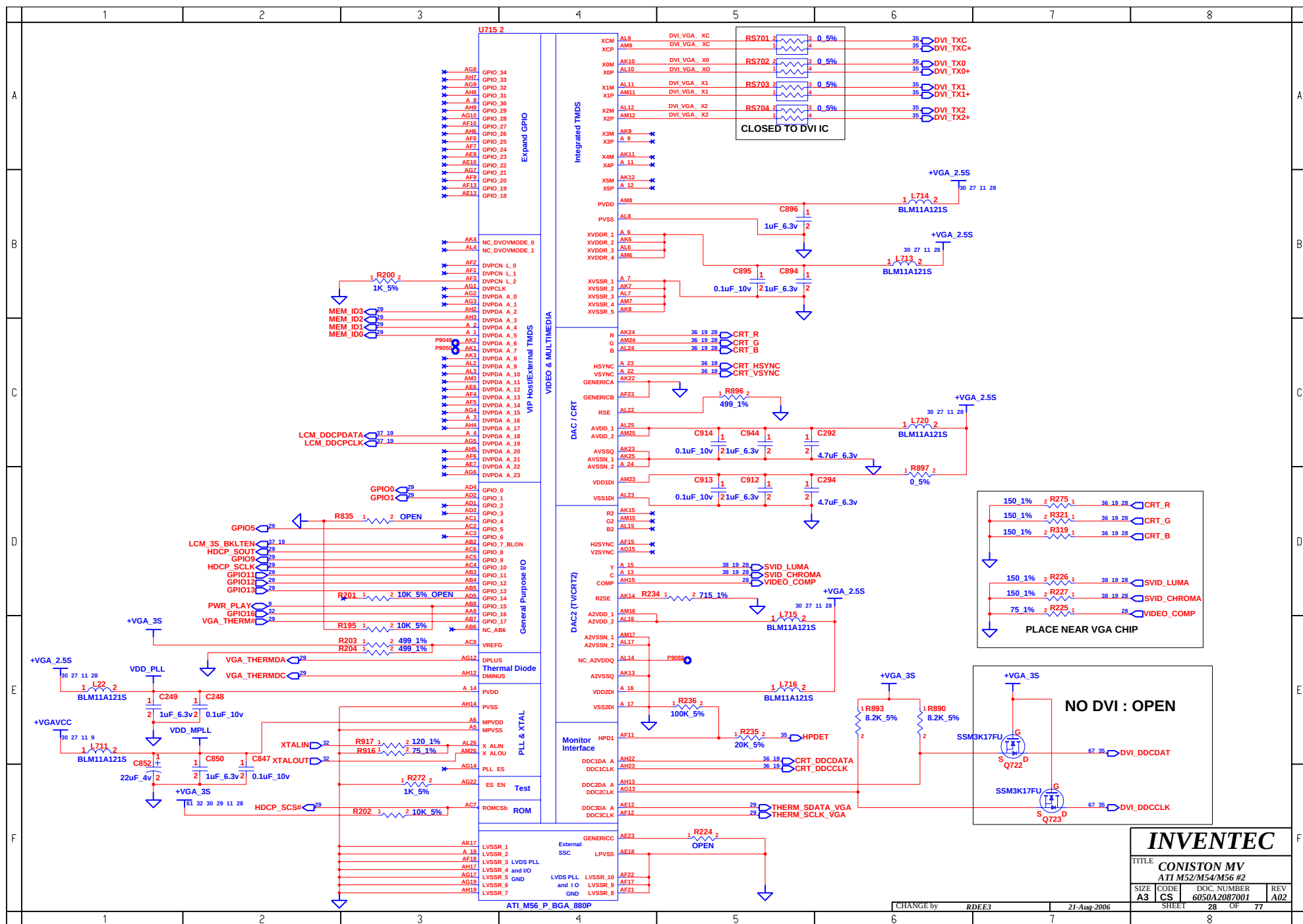
TITLE	CONISTON MV DDR II-DAMPING
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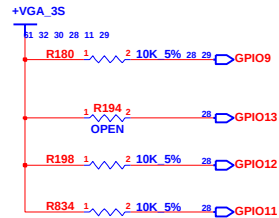
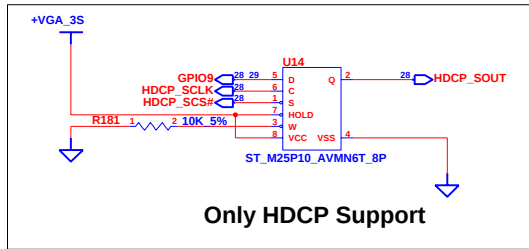
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

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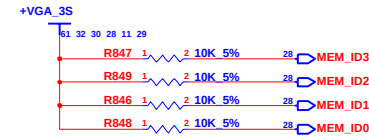
CS	6050A2087001
SHEET	26 OF 71





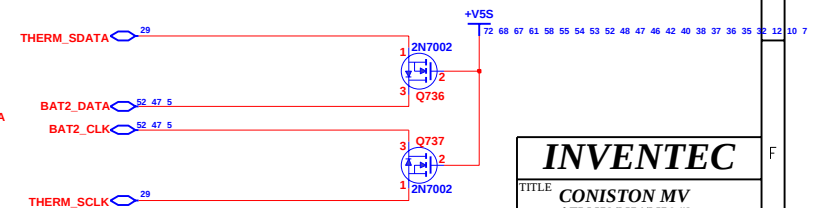
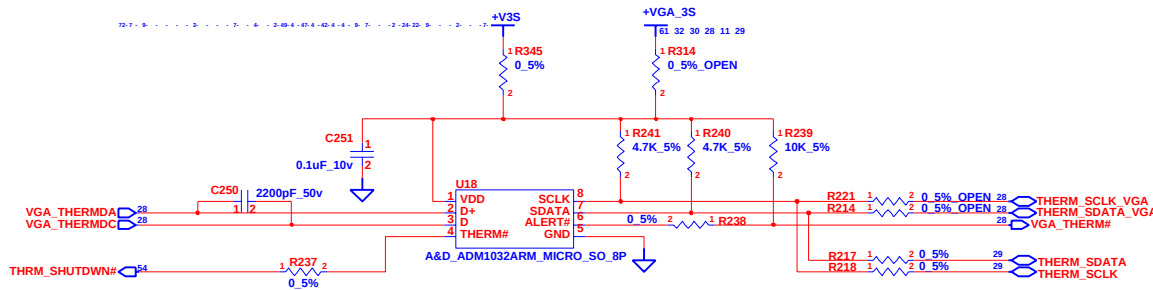


GPIO9,(13 11)	M56 VMEM CFG9,(11 13)-Memory Type
000X	NO ROM, MEM AP SIZE=00(128M)
001X	NO ROM, MEM AP SIZE=01(256M)
010X	NO ROM, MEM AP SIZE=10(64M)
011X	NO ROM, MEM AP SIZE=11(RESERVER)
ROM attached	GPIO(13 12) memory aperture size
1011	1M serial M25P10 ROM



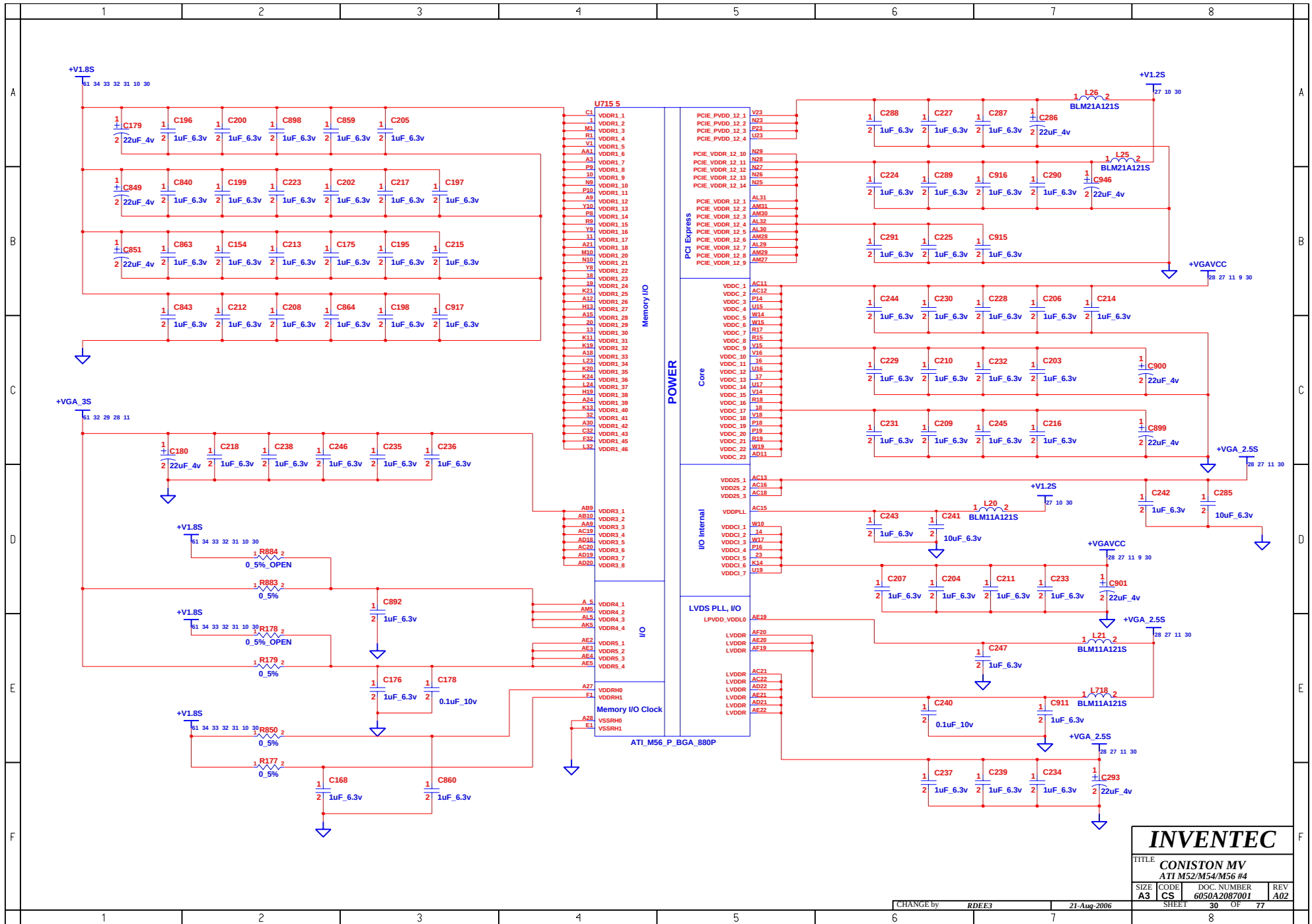
MEM ID(3 0)	M56VMEM CFG(3 0)-Memory Type
00h	SAMSUNG 16M x 16 (64MB)
01h	SAMSUNG 16M x 16 (128MB)
02h	TBD
03h	TBD
04h	Hynix 16M x 16 (64MB)
05h	Hynix 16M x 16 (128MB)
06h	TBD
07h	TBD
08h	Infineon 16M x 16 (64MB)
09h	Infineon 16M x 16 (128MB)
0Ah	TBD
0Bh	TBD
0Ch	SAMSUNG 32M x 16 4pcs(256MB)
0Dh	Hynix 32M x 16 4 pcs(256MB)
0Eh	Infineon 32M x 16 4 pcs(256MB)
0Fh	TBD

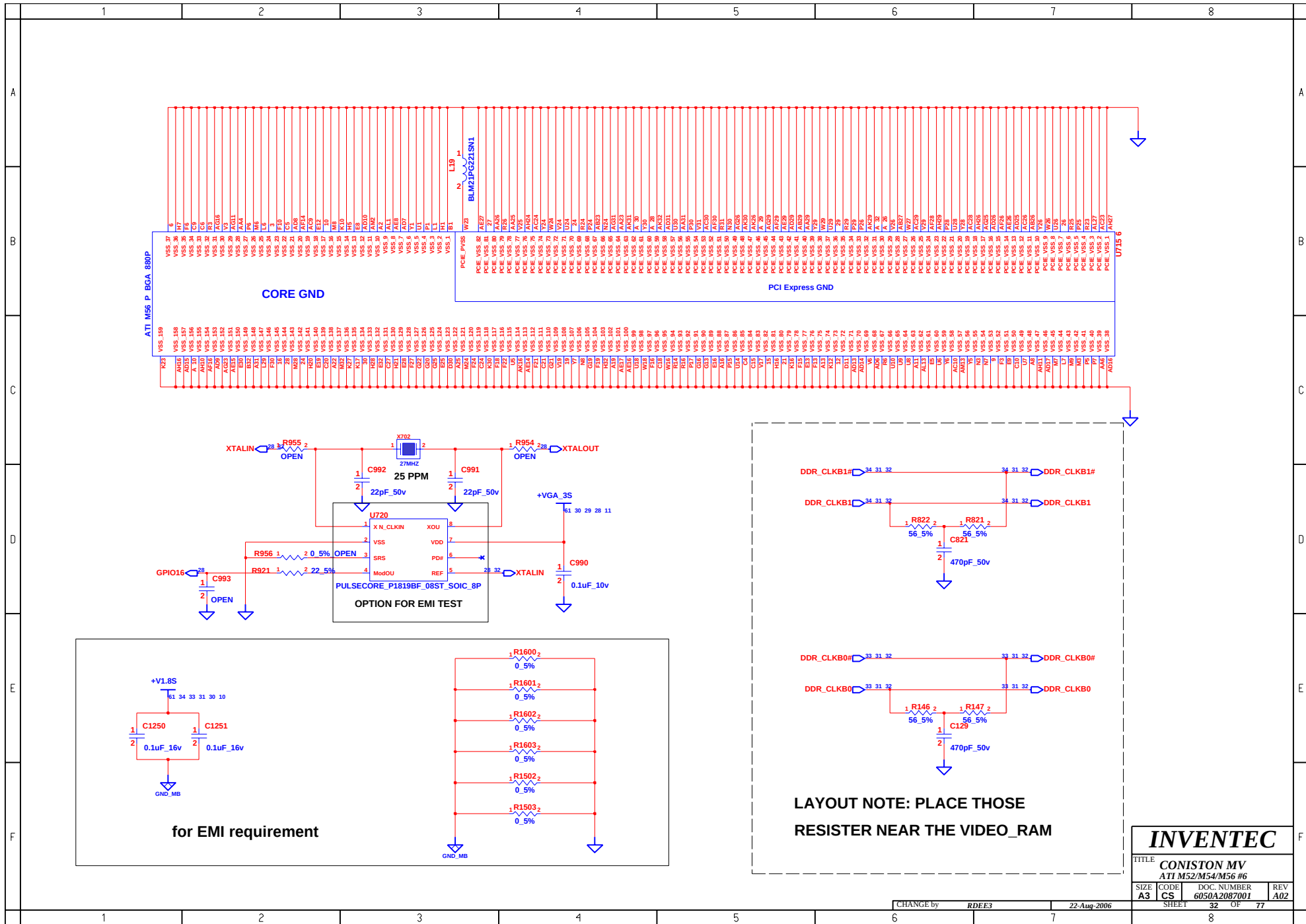
GPIO(0)
Transmitter Power Savings Enable
0 50 % Tx output swing
1 Full Tx output swing
GPIO(1)
Transmitter De-emphasis Enable
0 Tx de-emphasis disabled
1 Tx de-emphasis enable



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

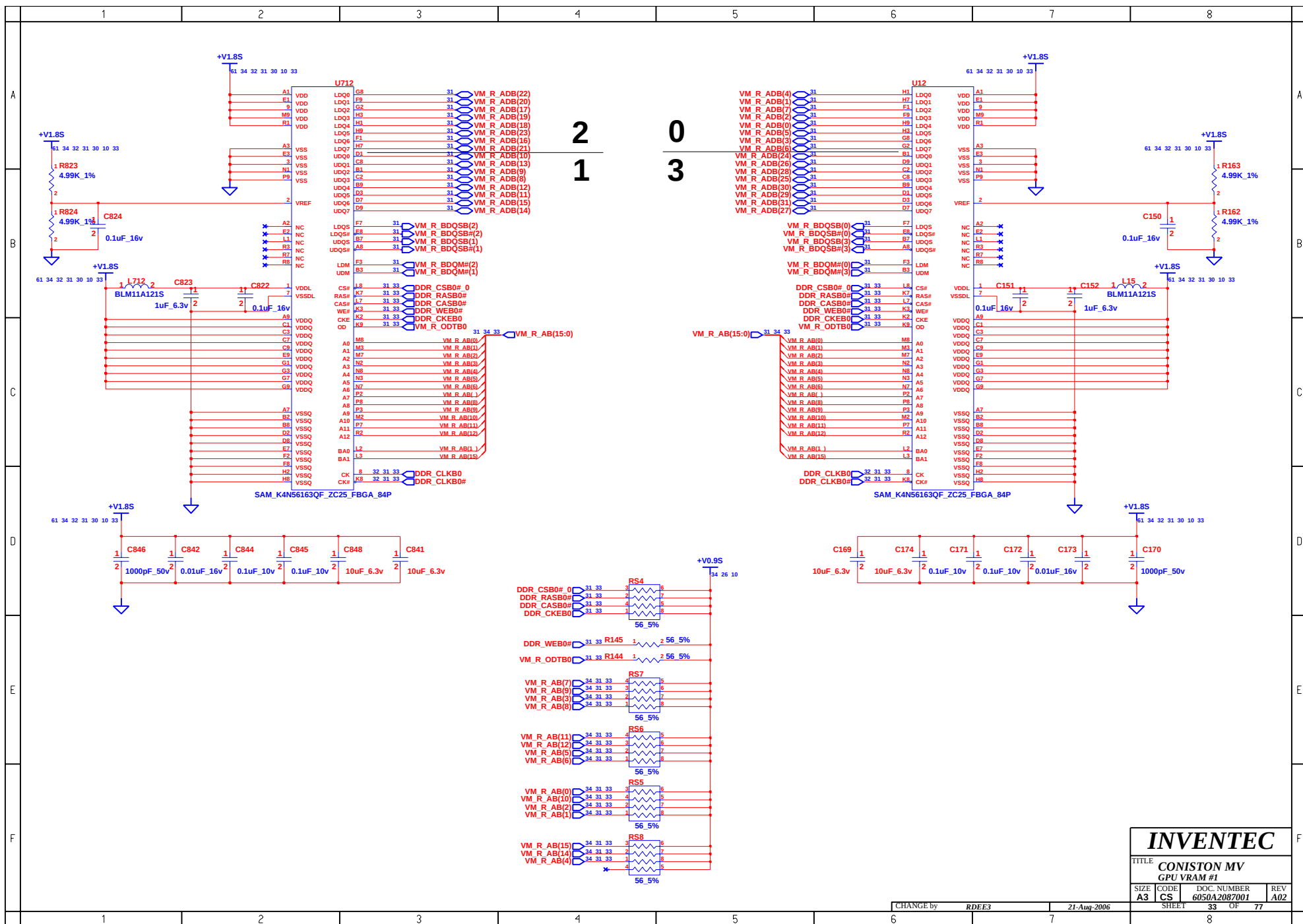


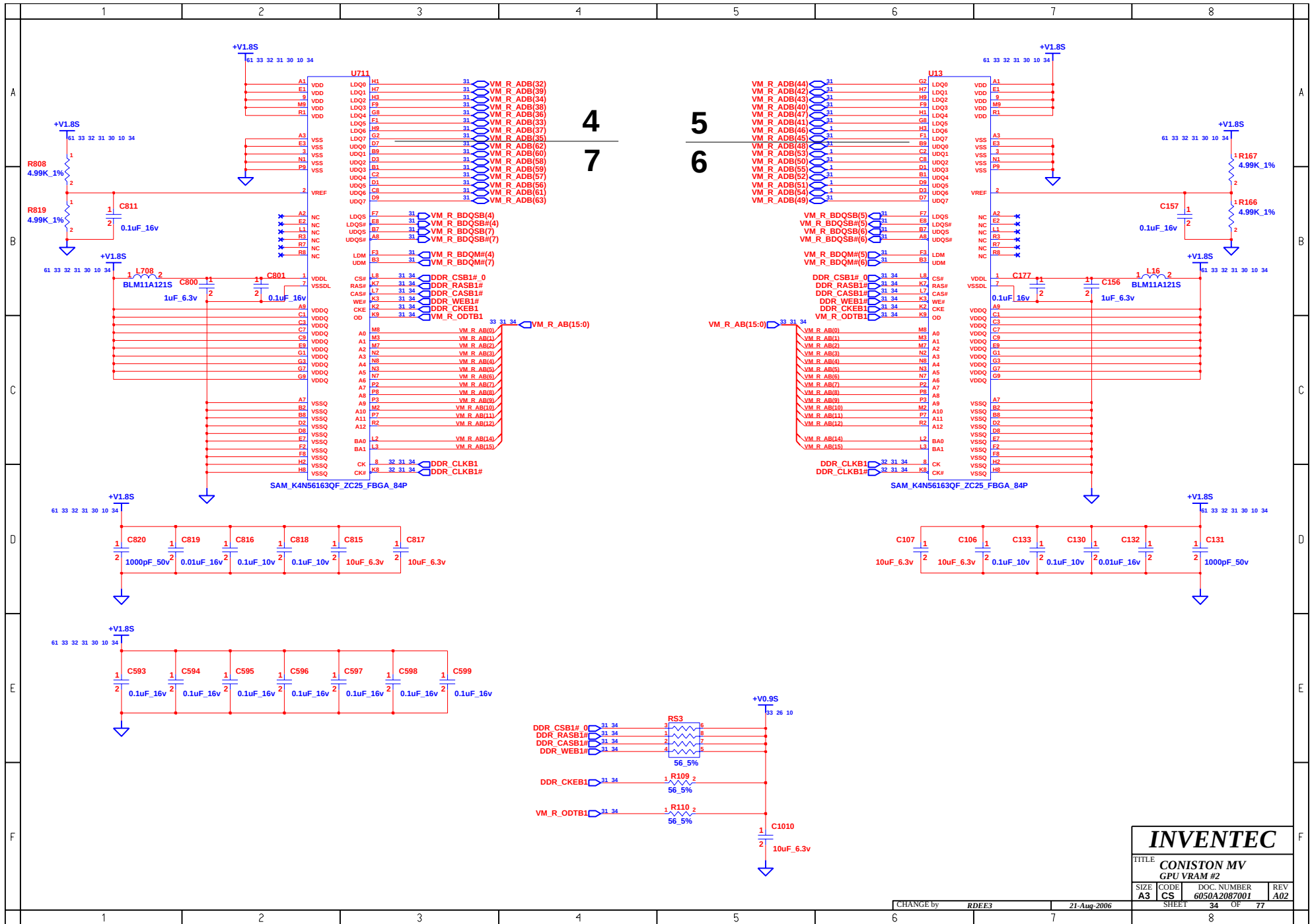


INVENTEC

TITLE CONISTON MV ATI M52/M54/M56 #6			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 32		OF 77	

CHANGE by RDE3 22-Aug-2006

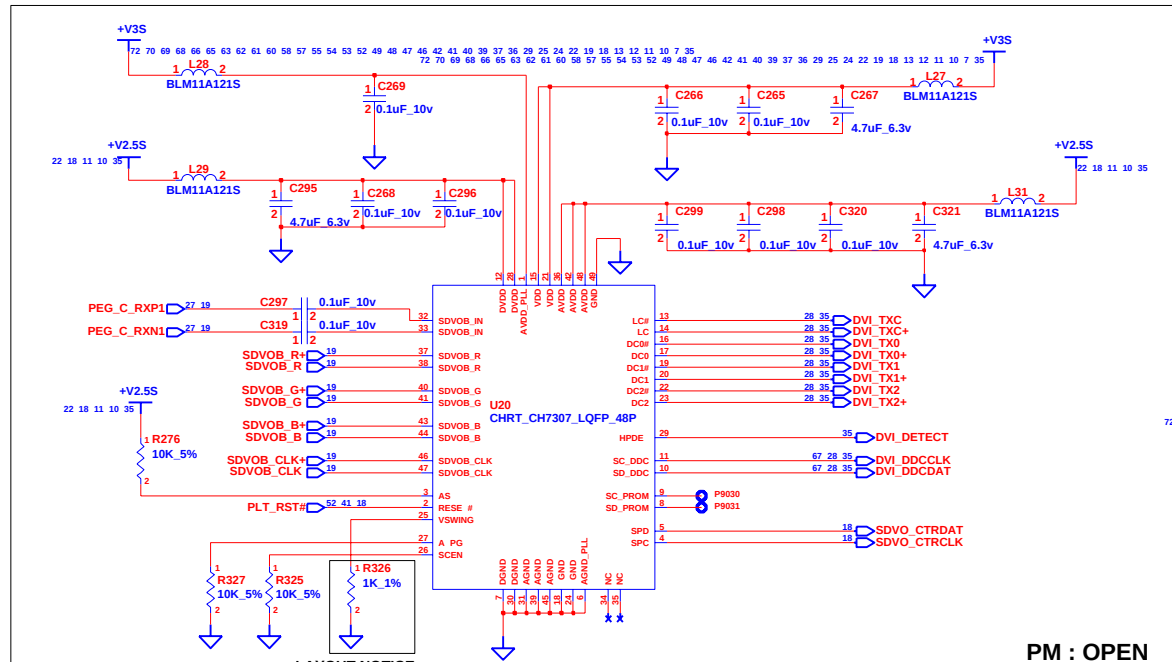




INVENTEC

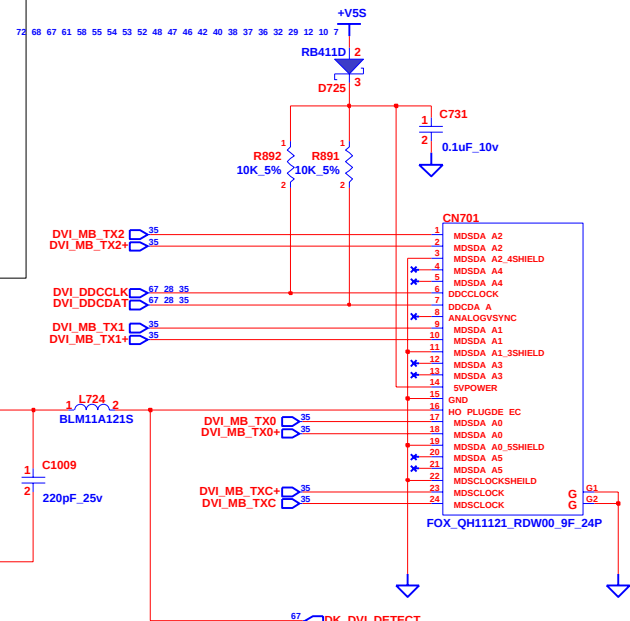
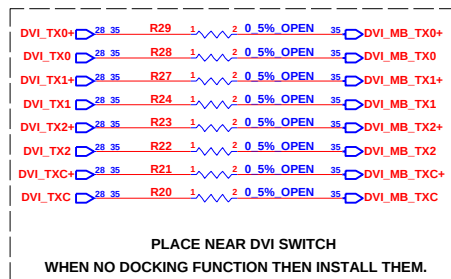
TITLE CONISTON MV GPU VRAM #2			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 34 OF 77			

CHANGE by RDEE3 21-Aug-2006

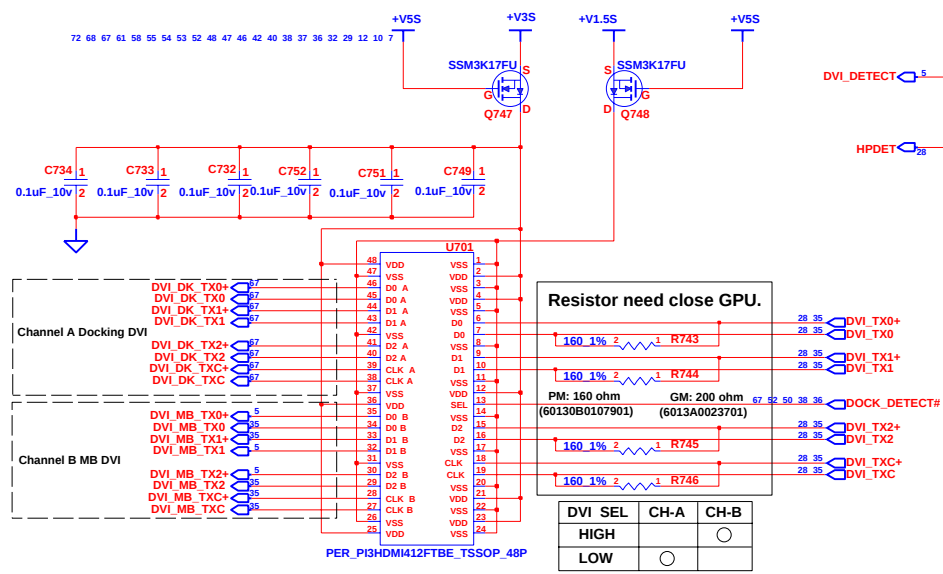


LAYOUT-notice:
Using short be connected between this pin and TGND
using short and wide traces.

PM : OPEN



DVI-D CONNECTOR



Resistor need close GPU.

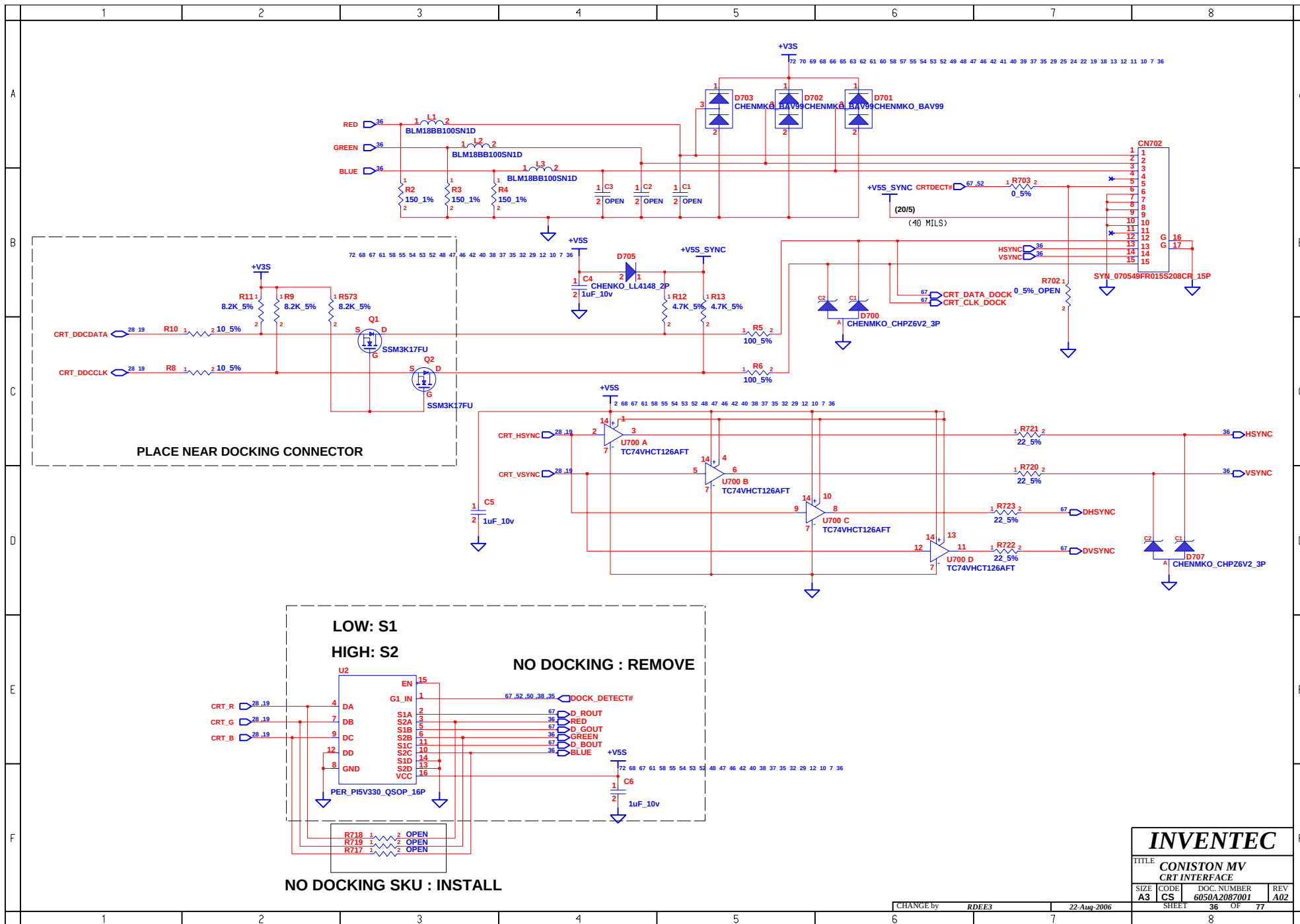
PM: 160 ohm (60130B0107901)	GM: 200 ohm (6013A0023701)
160_1% 2 R743	160_1% 2 R744
160_1% 2 R745	160_1% 2 R746

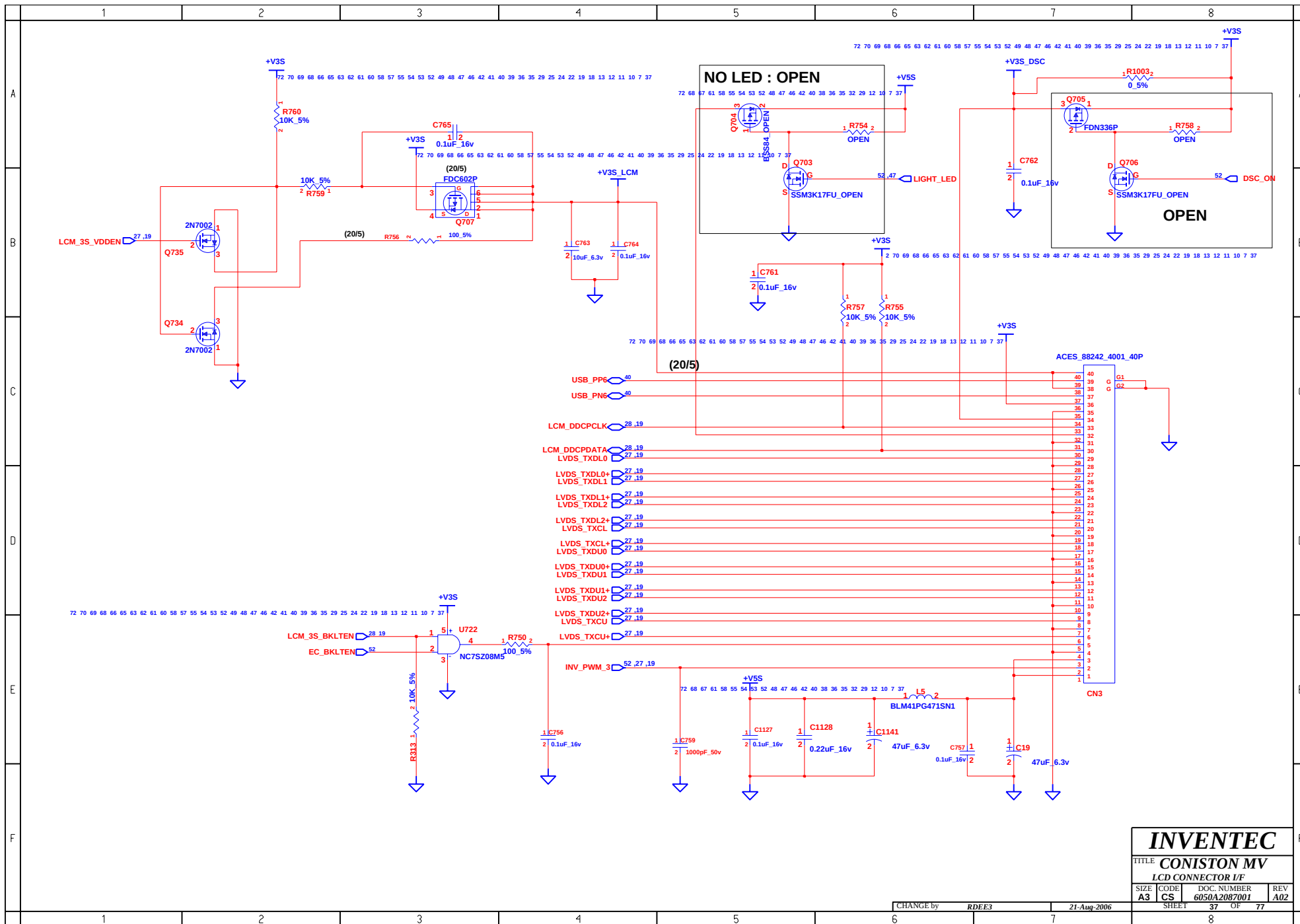
DVI SEL	CH-A	CH-B
HIGH		
LOW		

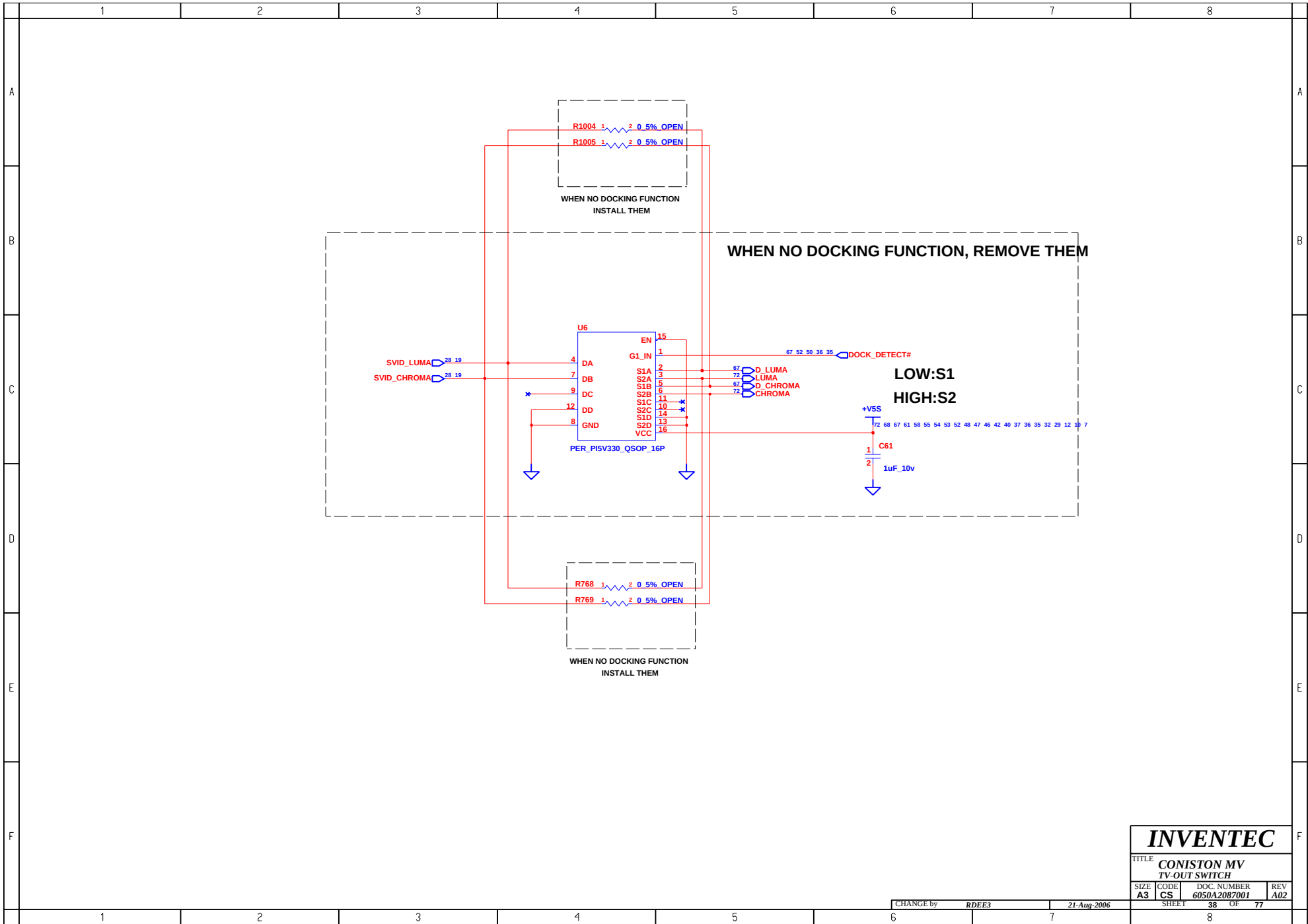
INVENTEC

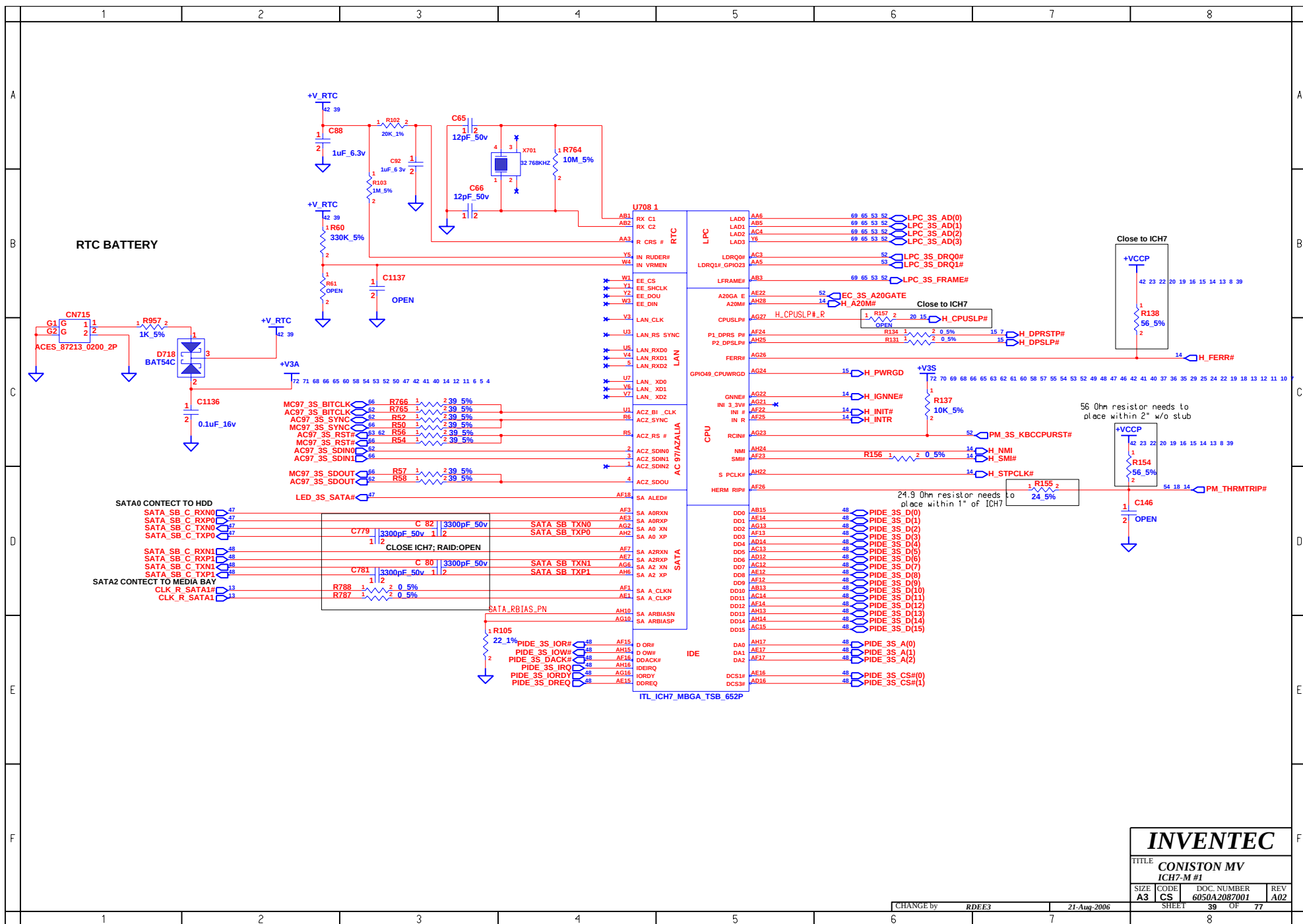
TITLE **CONISTON MV**
SDVO TO DVI & DVI CONN.

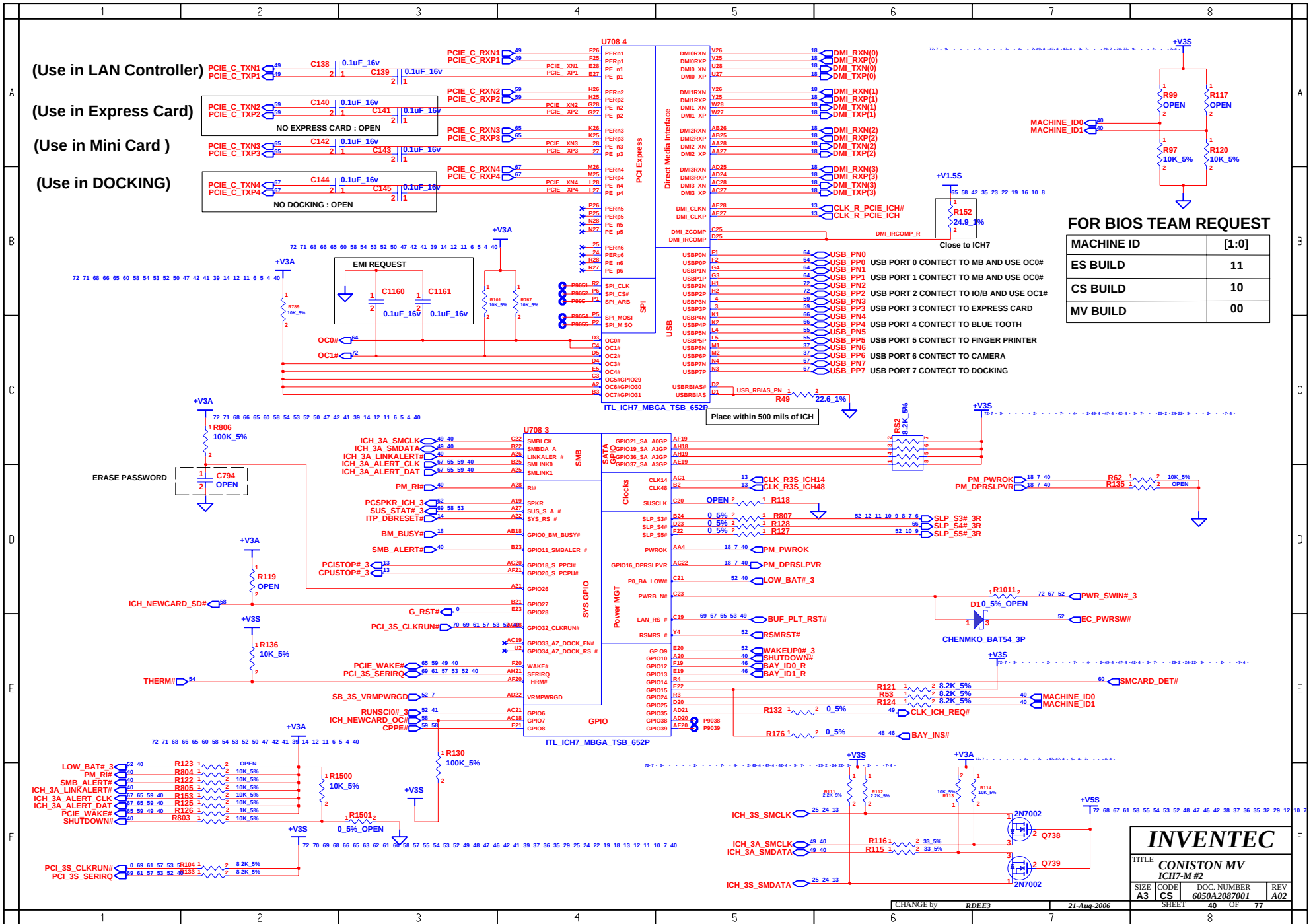
SIZE	CODE	DOC NUMBER	REV
A3	CS	6050A2087001	A02

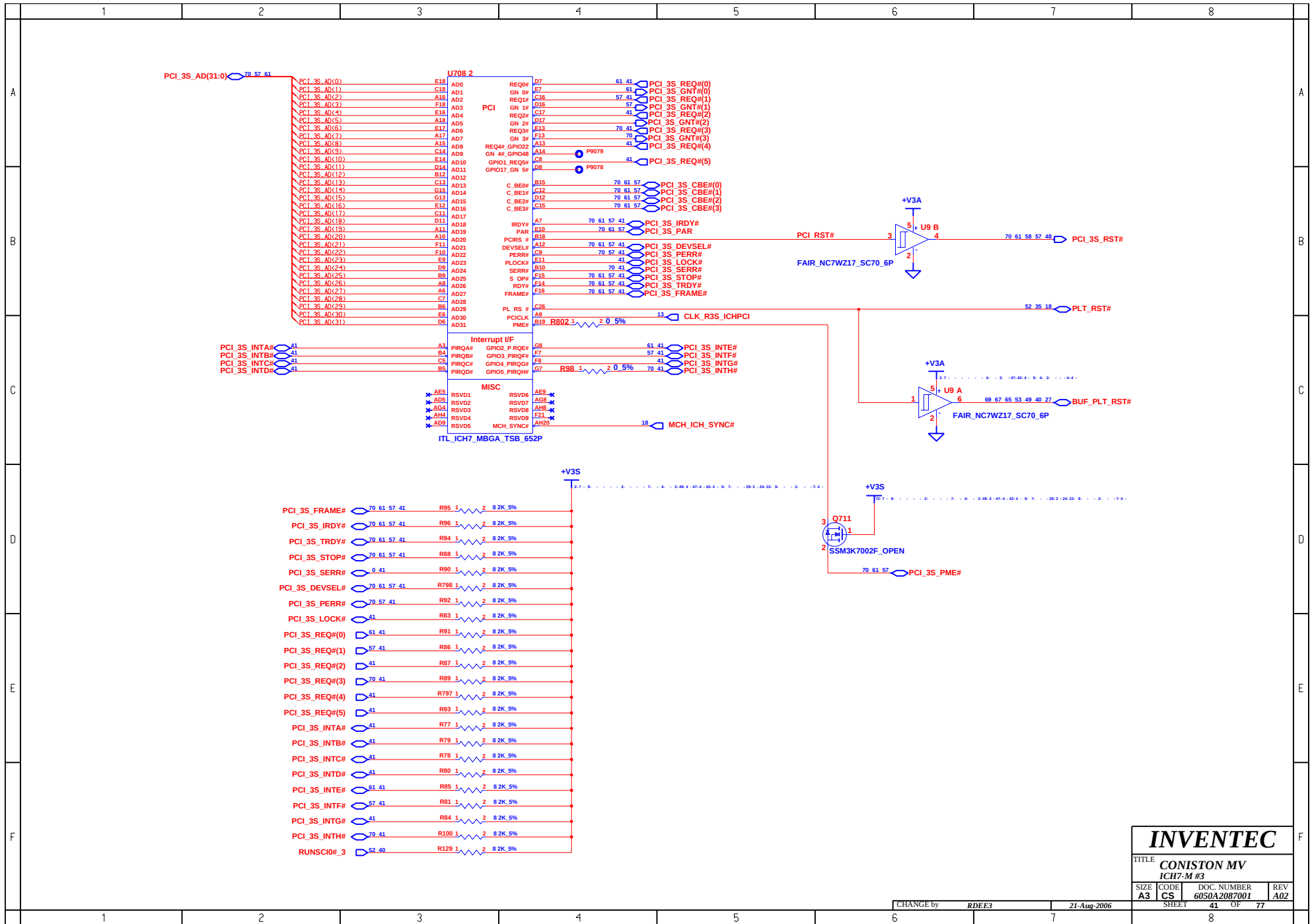






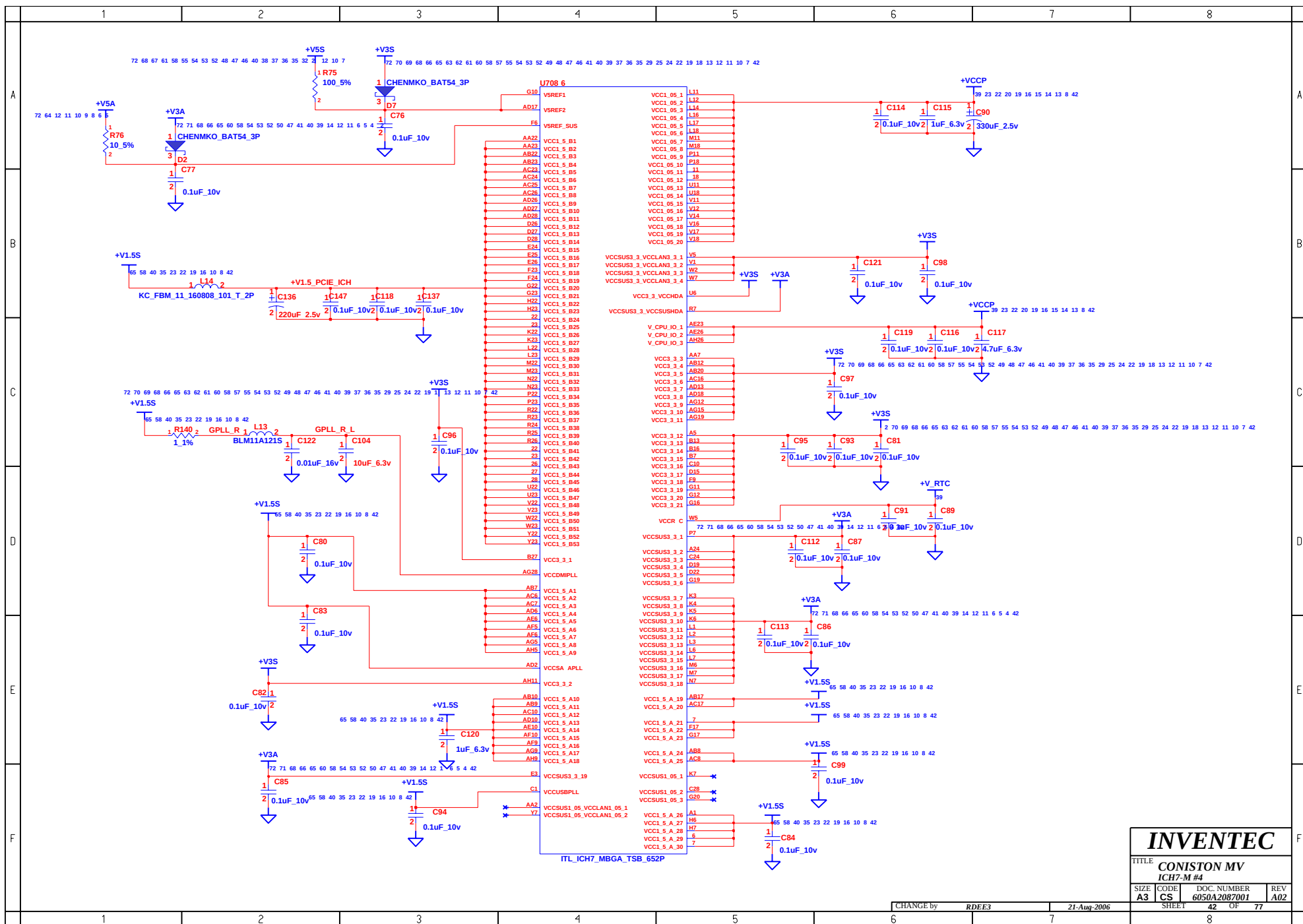






INVENTEC

TITLE			
CONISTON MV			
ICH7-M #3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02
CHANGE by		21-Aug-2006	
RDEE3			
SHEET		41	77



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

U708 5

A4

VSS1

A23

VSS2

B1

VSS3

B5

VSS4

B11

VSS5

B14

VSS6

B20

VSS7

B26

VSS8

B28

VSS9

C2

VSS10

C6

VSS11

C27

VSS12

D18

VSS13

D18

VSS14

D18

VSS15

D18

VSS16

D21

VSS17

D24

VSS18

E1

VSS19

E2

VSS20

E4

VSS21

E8

VSS22

E18

VSS23

F3

VSS24

F4

VSS25

F5

VSS26

F12

VSS27

F27

VSS28

F28

VSS29

G1

VSS30

G2

VSS31

G5

VSS32

G6

VSS33

G8

VSS34

G14

VSS35

G18

VSS36

G21

VSS37

G24

VSS38

G25

VSS39

G26

VSS40

H3

VSS41

H4

VSS42

H5

VSS43

H24

VSS44

H27

VSS45

H28

VSS46

J

VSS47

J

VSS48

J

VSS49

J

VSS50

J

VSS51

J

VSS52

J

VSS53

K27

VSS54

K28

VSS55

L13

VSS56

L15

VSS57

L24

VSS58

L25

VSS59

L26

VSS60

M1

VSS61

M4

VSS62

M5

VSS63

M14

VSS64

M13

VSS65

M14

VSS66

M15

VSS67

M16

VSS68

M17

VSS69

M24

VSS70

M27

VSS71

M28

VSS72

N1

VSS73

N2

VSS74

N5

VSS75

N6

VSS76

N11

VSS77

N12

VSS78

N13

VSS79

N14

VSS80

N15

VSS81

N16

VSS82

N17

VSS83

N18

VSS84

N24

VSS85

N25

VSS86

N26

VSS87

P1

VSS88

P4

VSS89

P12

VSS90

P13

VSS91

P14

VSS92

P15

VSS93

P16

VSS94

P21

VSS95

P24

VSS96

P27

VSS97

VSS98

P28

VSS99

R1

VSS100

R11

VSS101

R12

VSS102

R13

VSS103

R14

VSS104

R15

VSS105

R16

VSS106

R17

VSS107

R18

VSS108

S

VSS109

12

VSS110

13

VSS111

14

VSS112

15

VSS113

16

VSS114

17

VSS115

U4

VSS116

U12

VSS117

U13

VSS118

U14

VSS119

U15

VSS120

U16

VSS121

U17

VSS122

U24

VSS123

U25

VSS124

W26

VSS125

V2

VSS126

V13

VSS127

V15

VSS128

V24

VSS129

V27

VSS130

V28

VSS131

W6

VSS132

W24

VSS133

W25

VSS134

W26

VSS135

V3

VSS136

V24

VSS137

V27

VSS138

V28

VSS139

AA1

VSS140

AA24

VSS141

AA25

VSS142

AA26

VSS143

AB4

VSS144

AB6

VSS145

AB11

VSS146

AB14

VSS147

AB15

VSS148

AB19

VSS149

AB21

VSS150

AB27

VSS151

AB24

VSS152

AB28

VSS153

AC2

VSS154

AC5

VSS155

AC9

VSS156

AC11

VSS157

AD1

VSS158

AD1

VSS159

AD4

VSS160

AD7

VSS161

AD8

VSS162

AD11

VSS163

AD15

VSS164

AD19

VSS165

AD23

VSS166

AE2

VSS167

AE4

VSS168

AE8

VSS169

AE11

VSS170

AE13

VSS171

AE18

VSS172

AE21

VSS173

AE24

VSS174

AE25

VSS175

AF2

VSS176

AF4

VSS177

AF5

VSS178

AF11

VSS179

AF27

VSS180

AF28

VSS181

AG1

VSS182

AG3

VSS183

AG7

VSS184

AG11

VSS185

AG14

VSS186

AG17

VSS187

AG20

VSS188

AG25

VSS189

AH1

VSS190

AH3

VSS191

AH7

VSS192

AH12

VSS193

AH23

VSS194

AH27

ITL_ICH7_MBGA_TSB_652P

INVENTEC

TITLE
CONISTON MV
ICH7-M #5

SIZE
A3

CODE
CS

DOC. NUMBER
6050A2087001

REV
A02

SHEET 43 OF 77

CHANGE by
RDEE3

21-Aug-2006

1

2

3

4

5

6

7

8

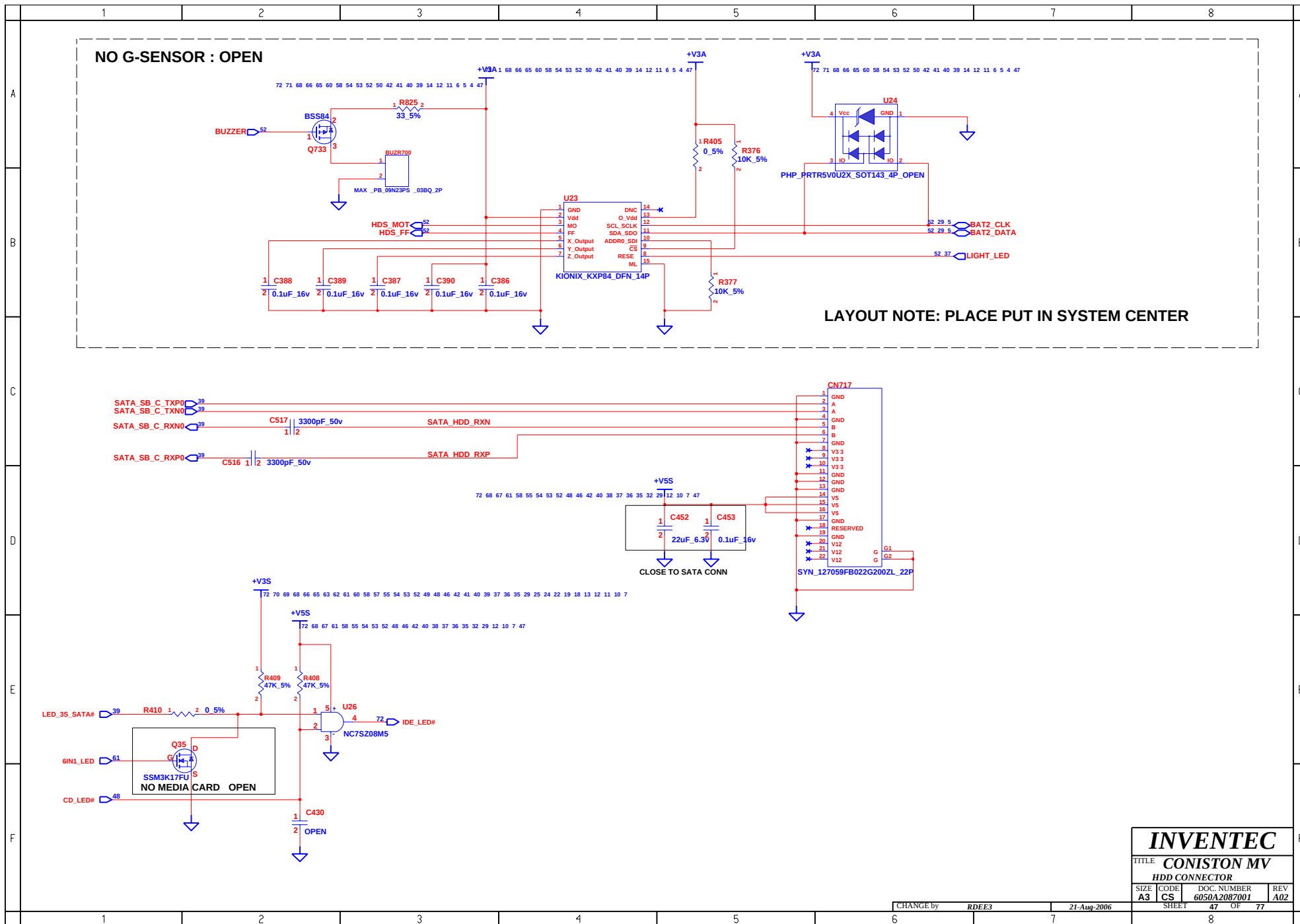
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
1	2	3	4	5	6	7	8		

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 <i>CONISTON MV RAID CONTROLLER #2</i>			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 45 OF 77			

[illegible]



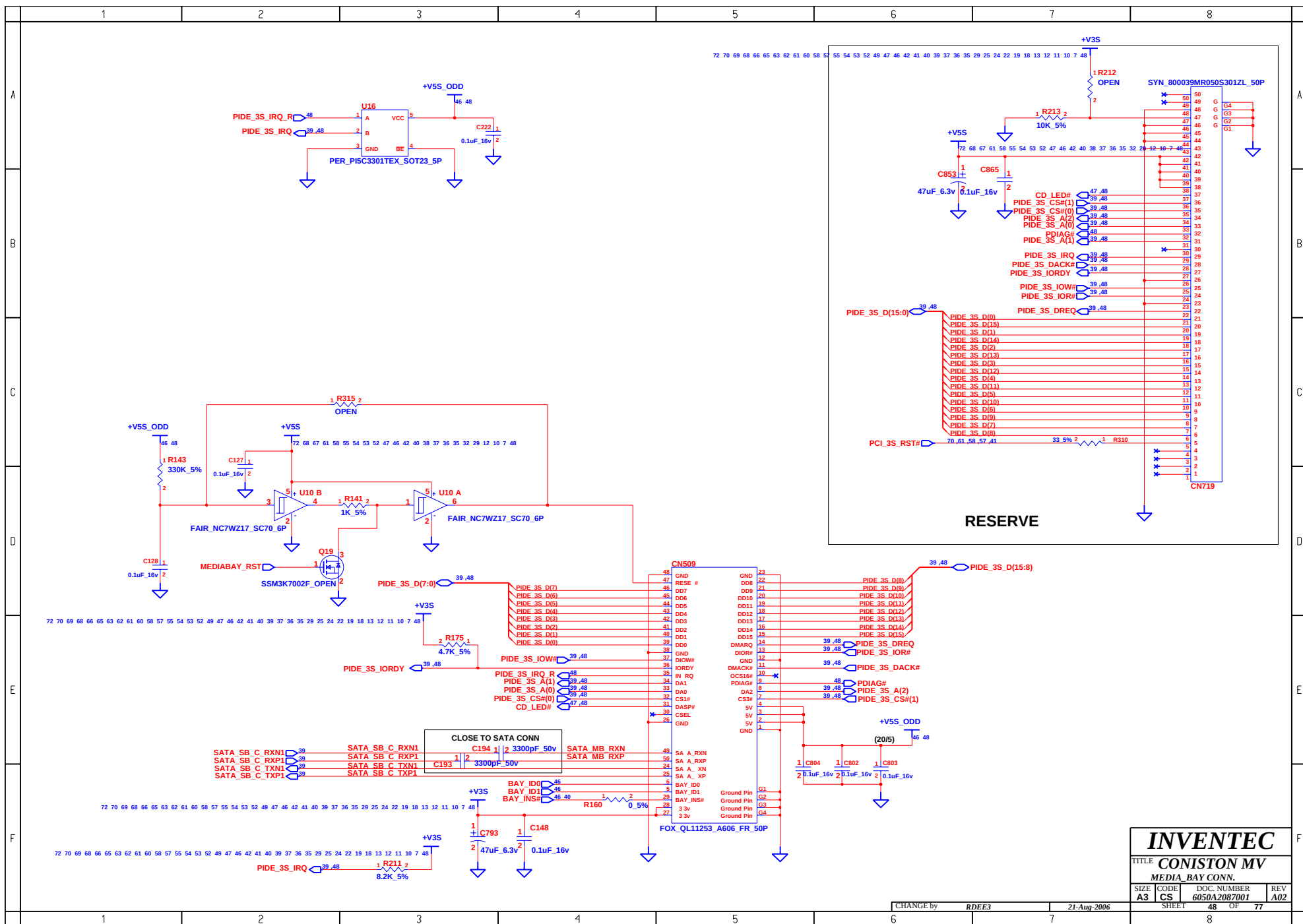
INVENTEC

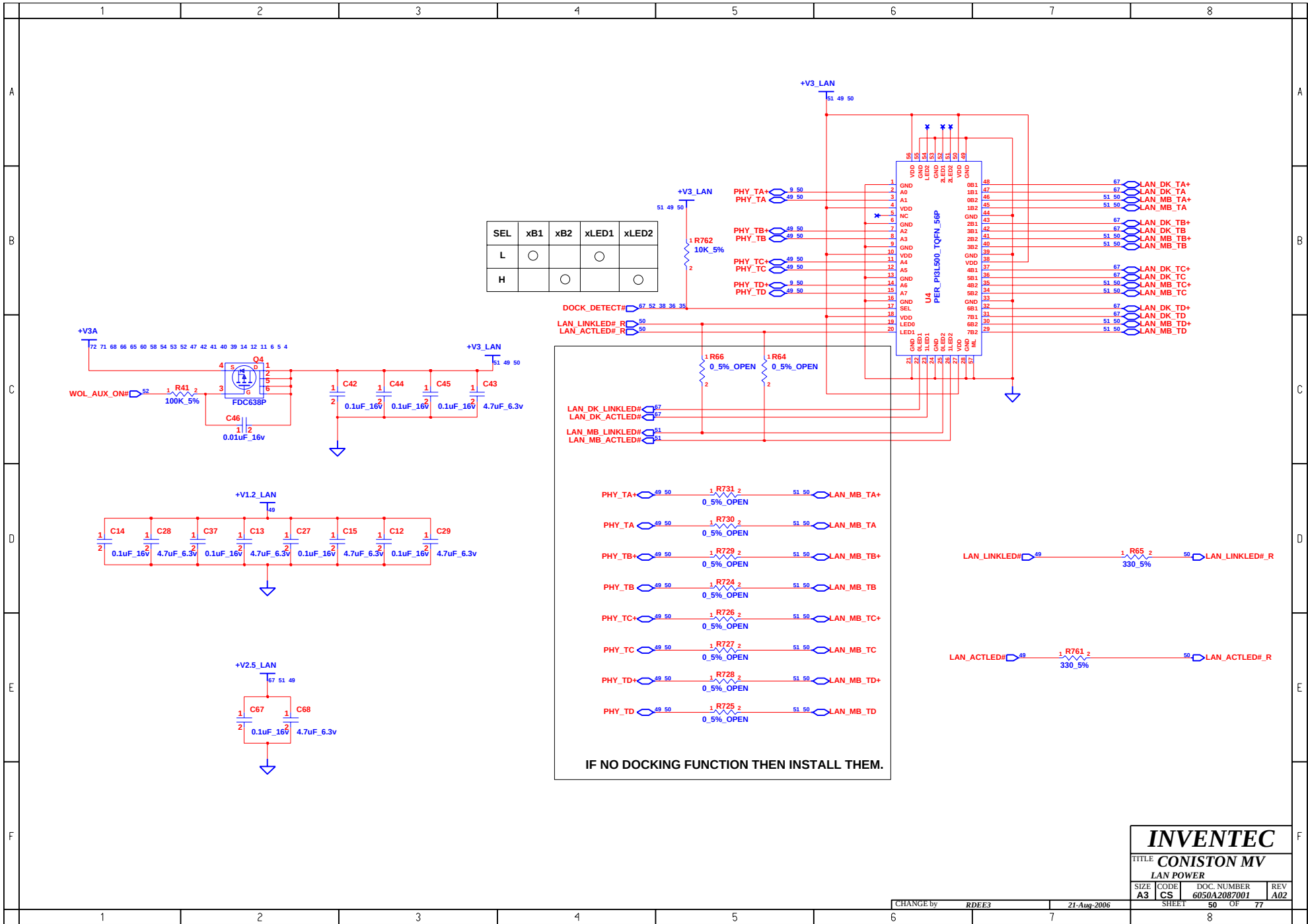
TITLE **CONISTON MV**
HDD CONNECTOR

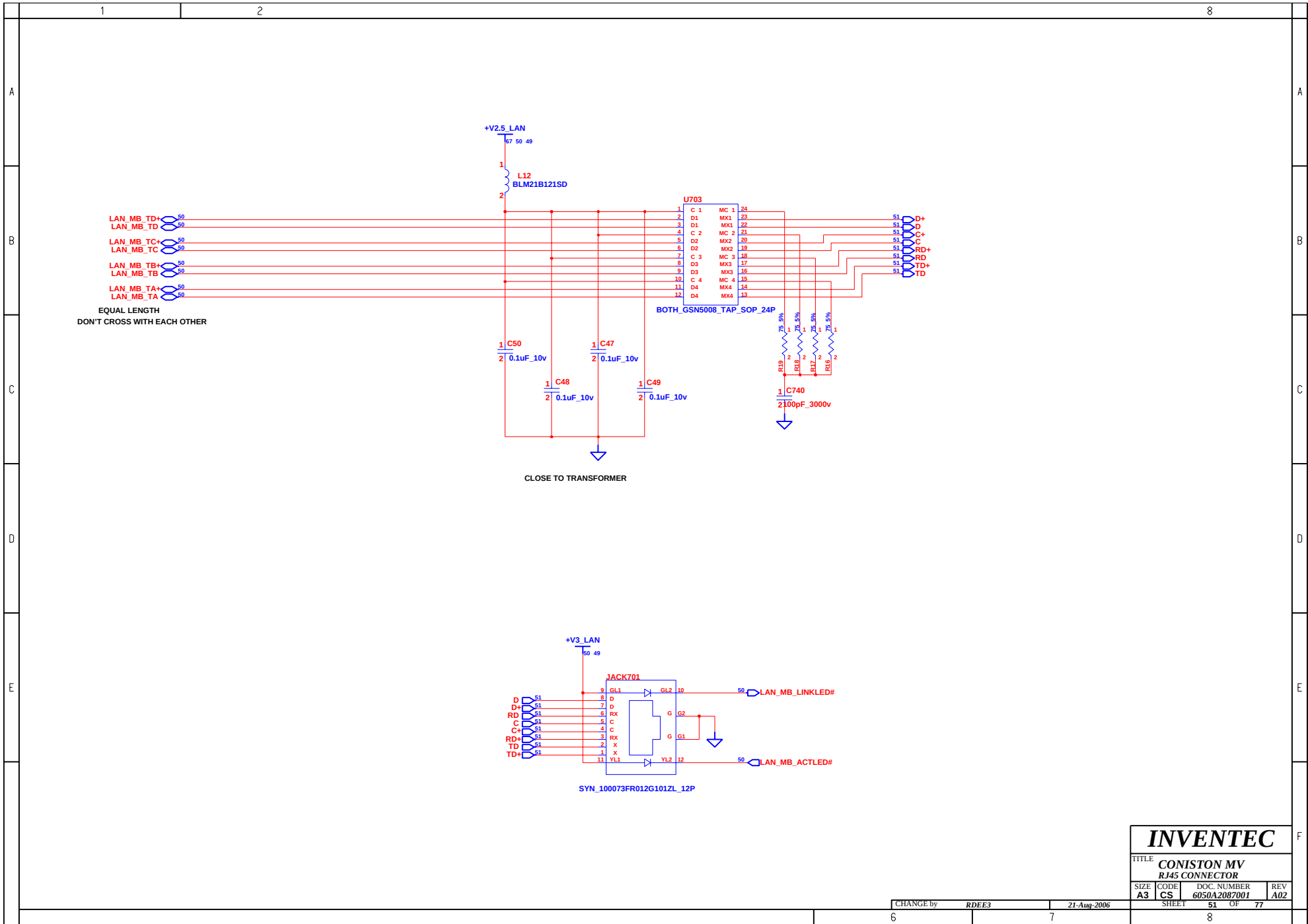
SIZE **A3** CODE **CS** DOC. NUMBER **6050A2087001** REV **A02**

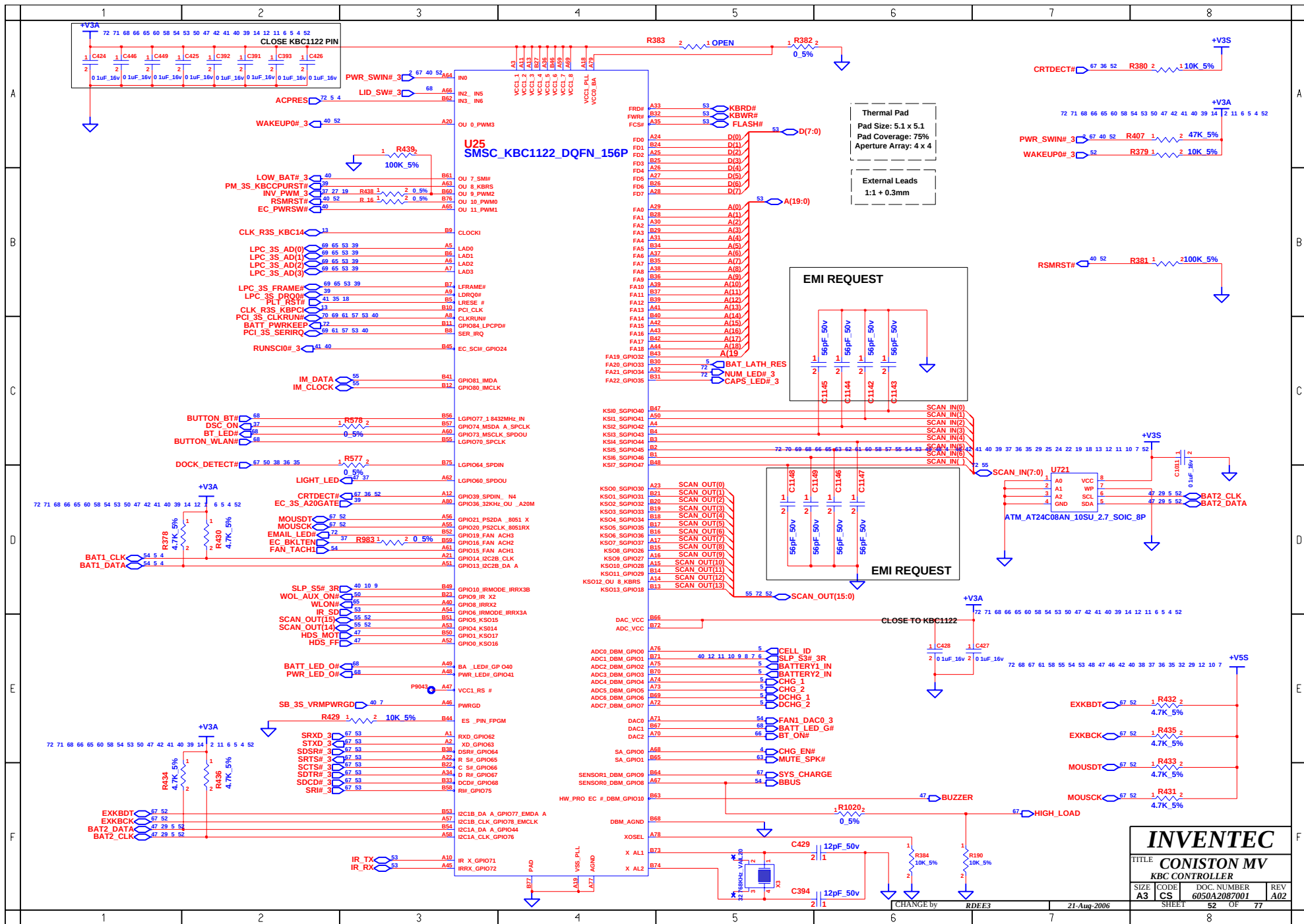
CHANGE by **RDEE3** 21-Aug-2006

SHEET **47** OF **77**









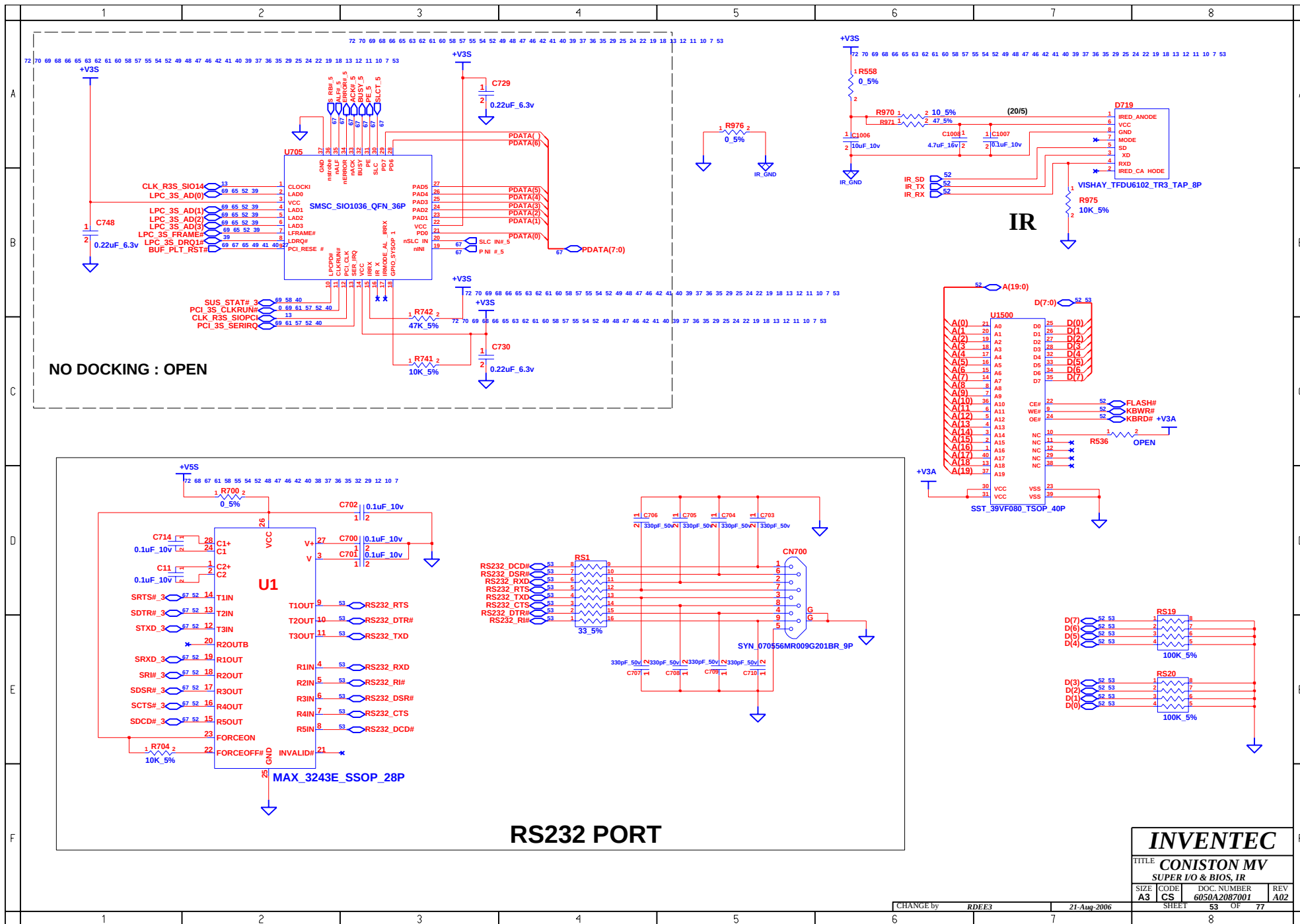
INVENTEC

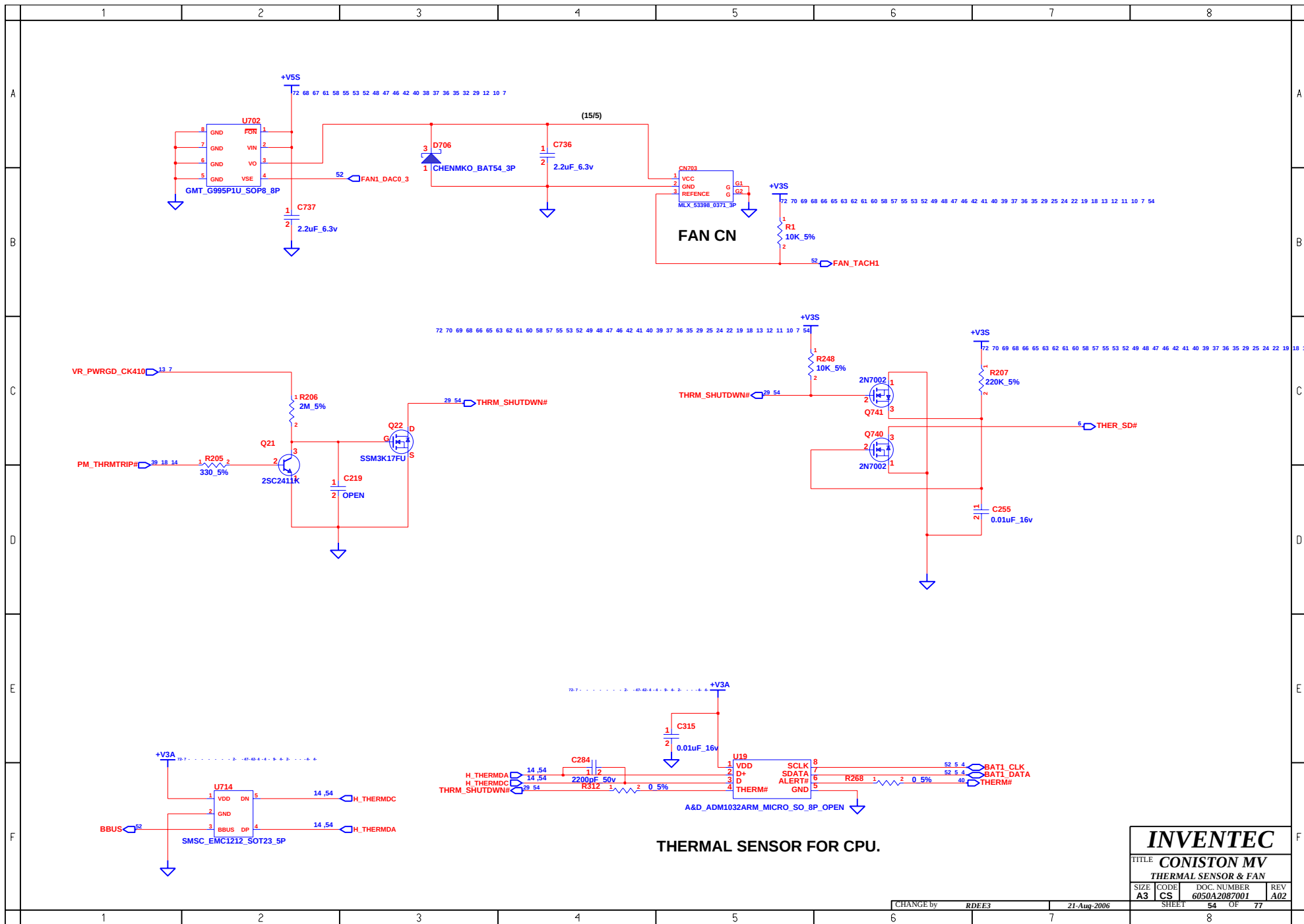
TITLE **CONISTON MV**

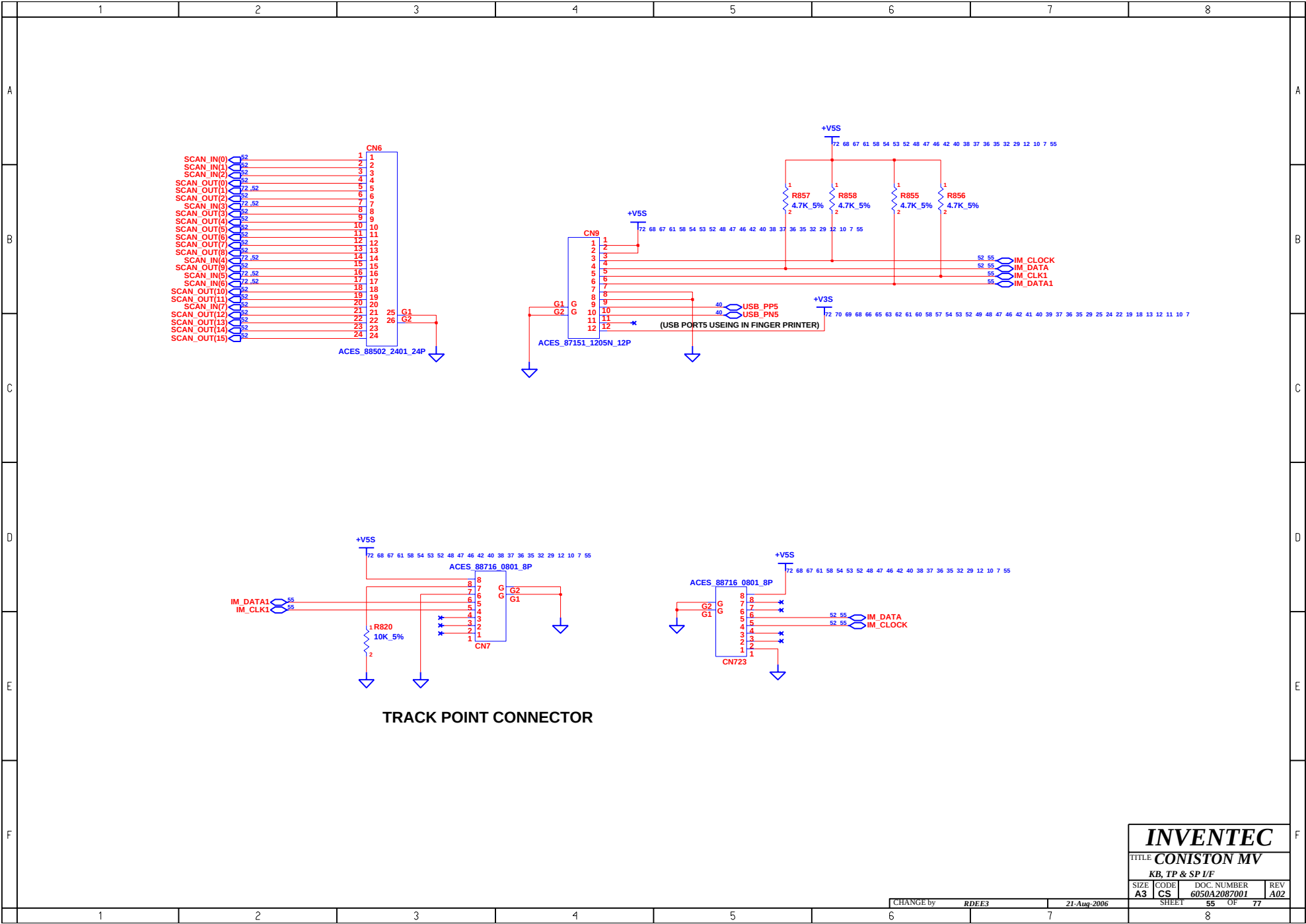
KBC CONTROLLER

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

SHEET 52 OF 77







INVENTEC

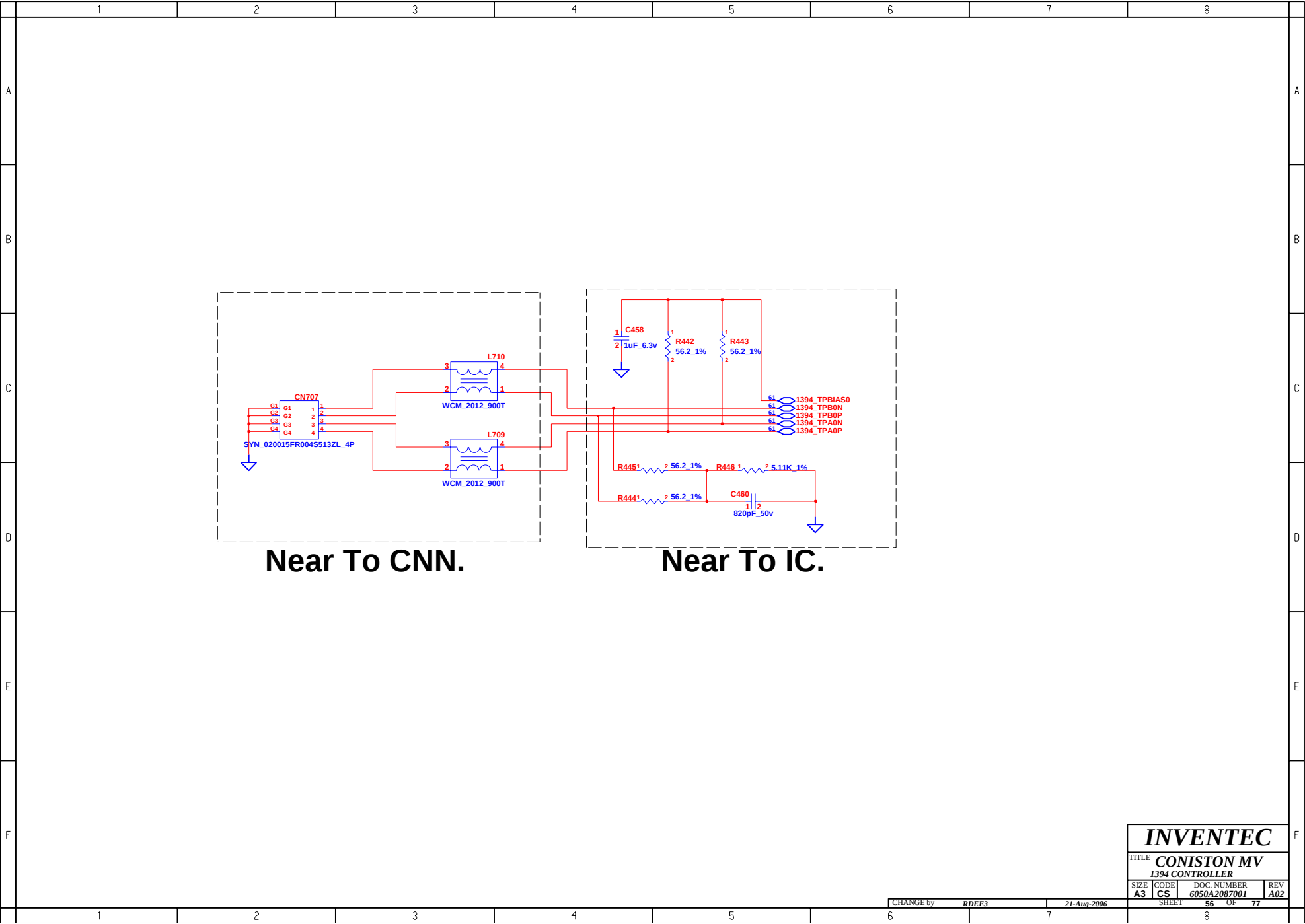
TITLE **CONISTON MV**

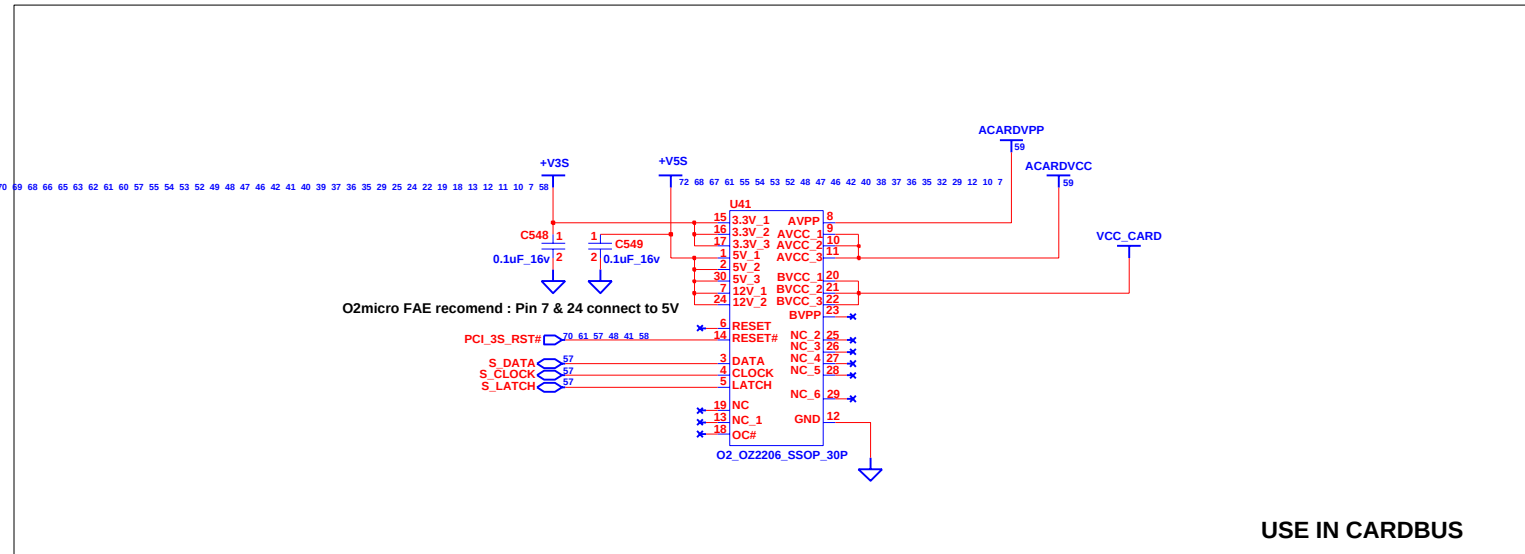
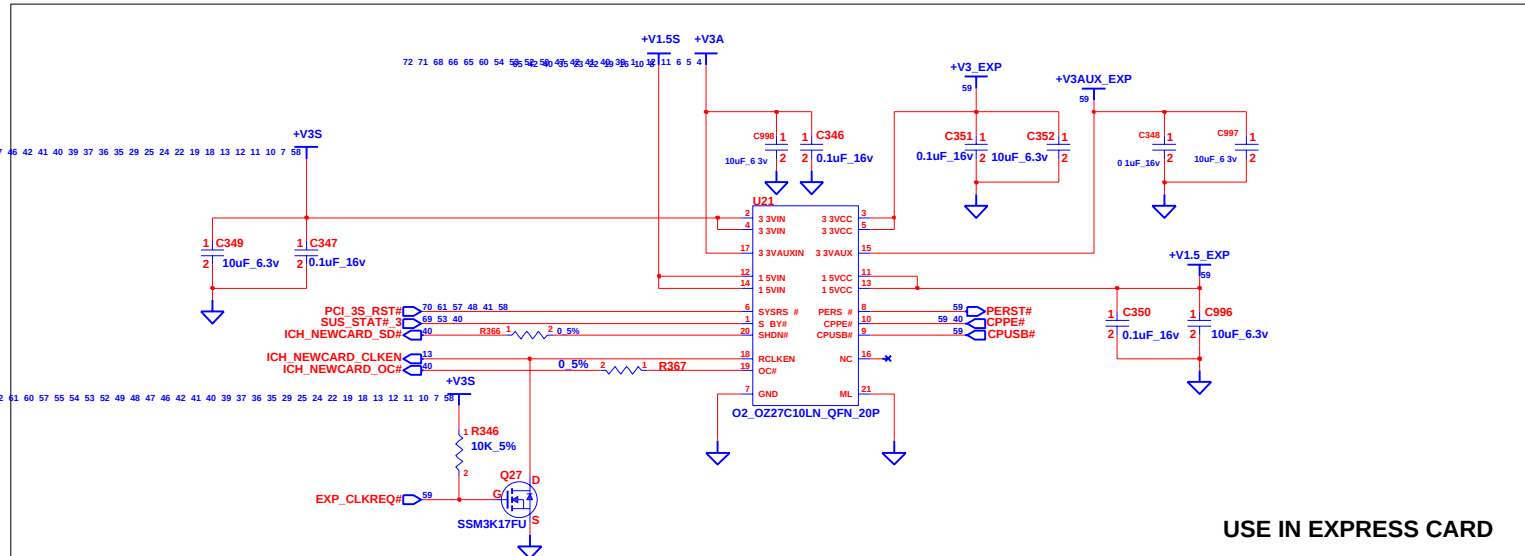
KB, TP & SP I/F

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

SHEET **55** OF **77**

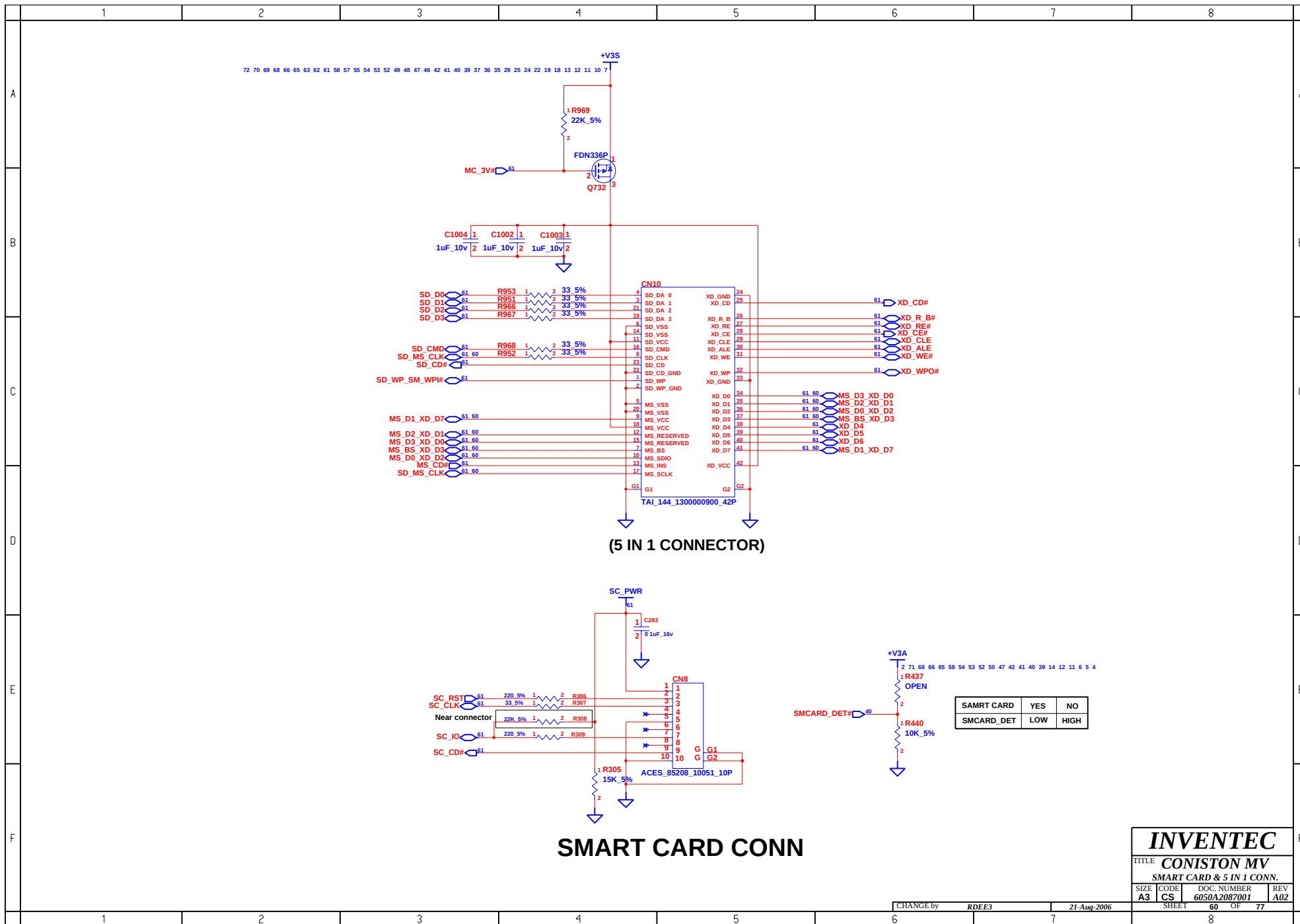




INVENTEC				
TITLE CONISTON MV				
PC CARD & EXPRESS CARD POWER				
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02	

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

SHEET 58 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

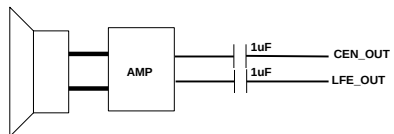
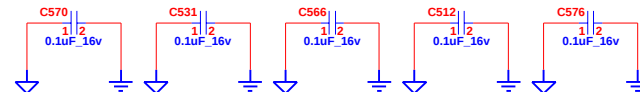
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1

1

1

1

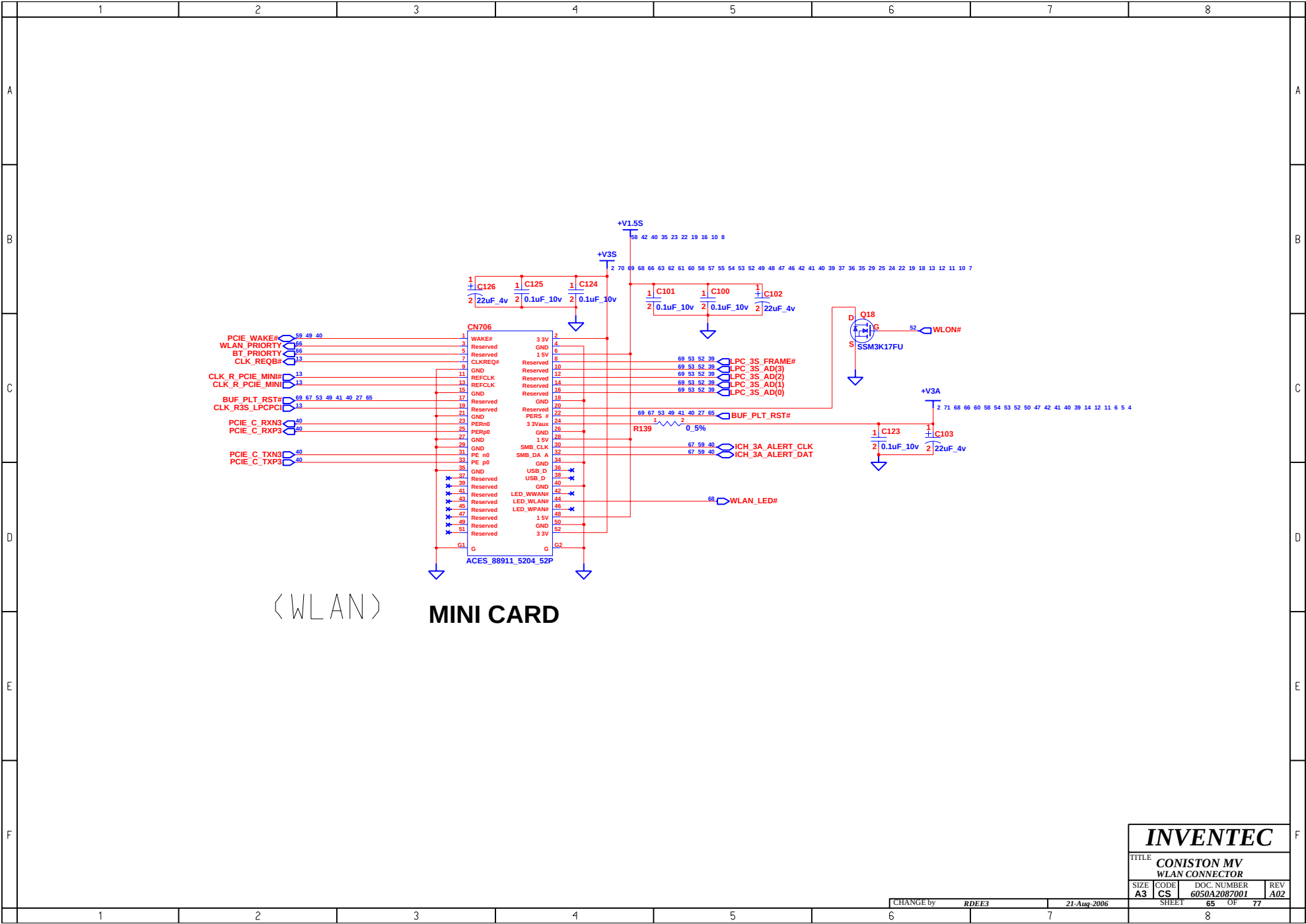


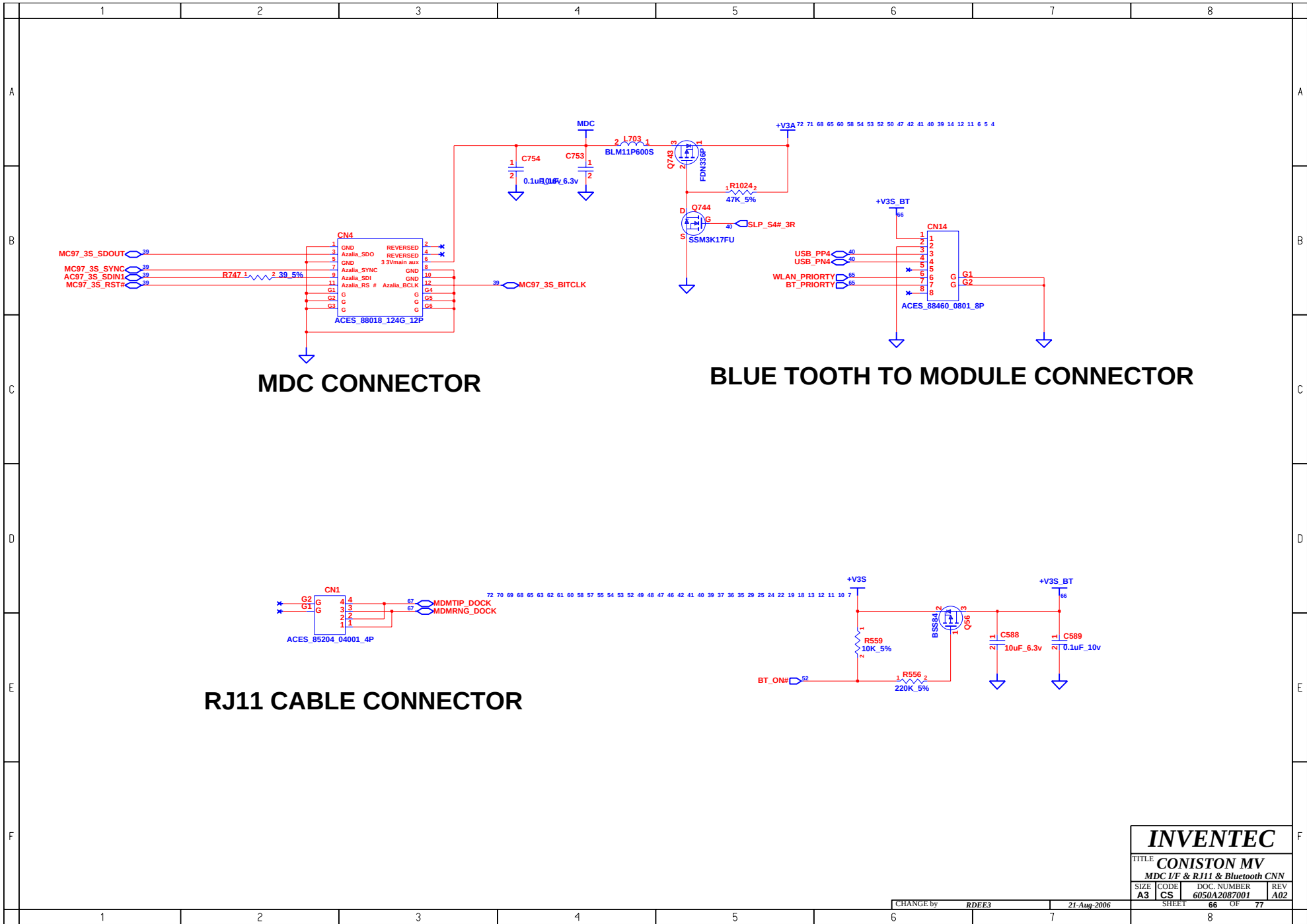
CS	6050A2087001
SHEET	62 OF 77

SEIBTL#	LO	HI
BTL(SPK)	○	
SE(HP)		○









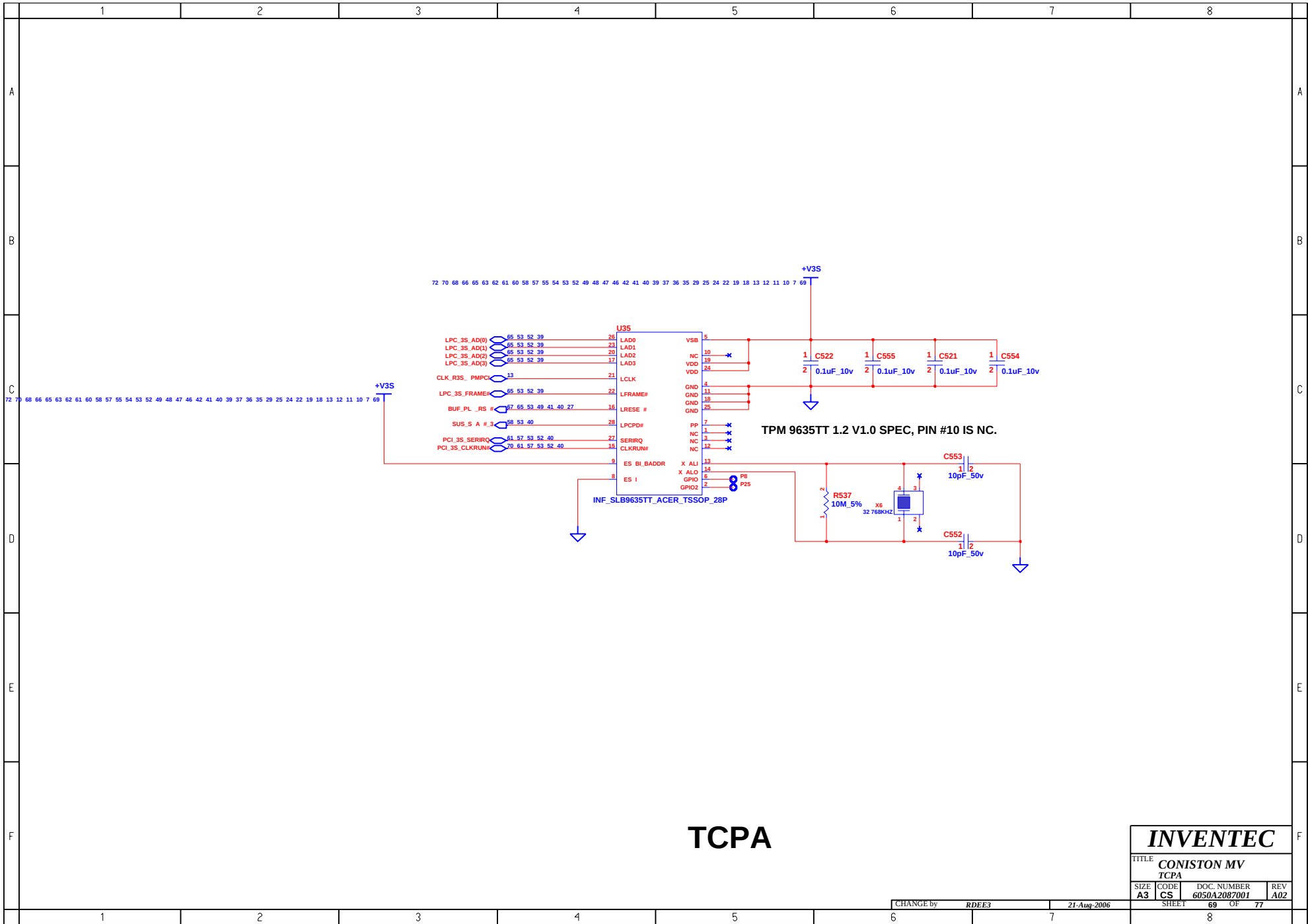
INVENTEC

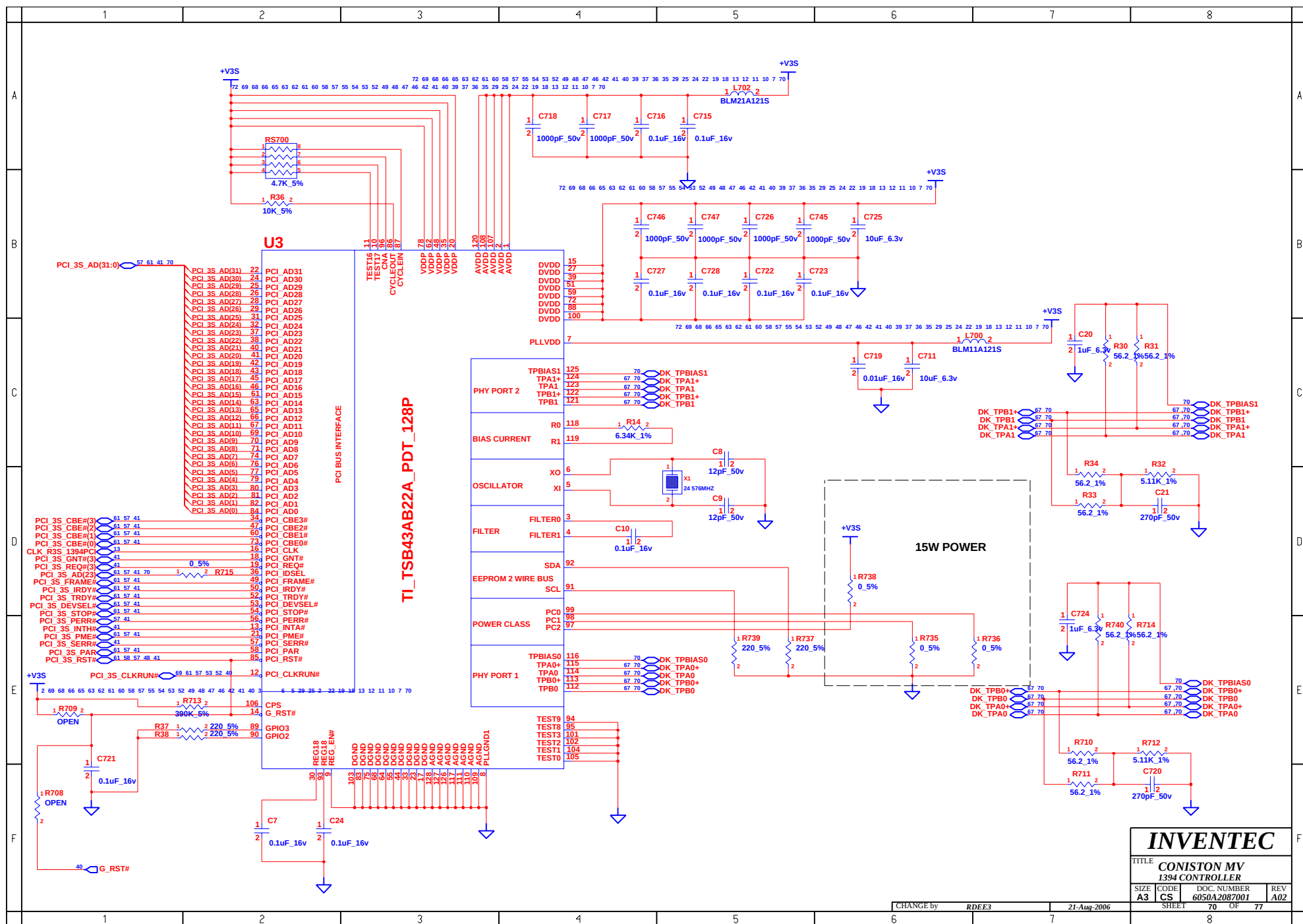
TITLE **CONISTON MV**
MDC I/F & RJ11 & Bluetooth CNN

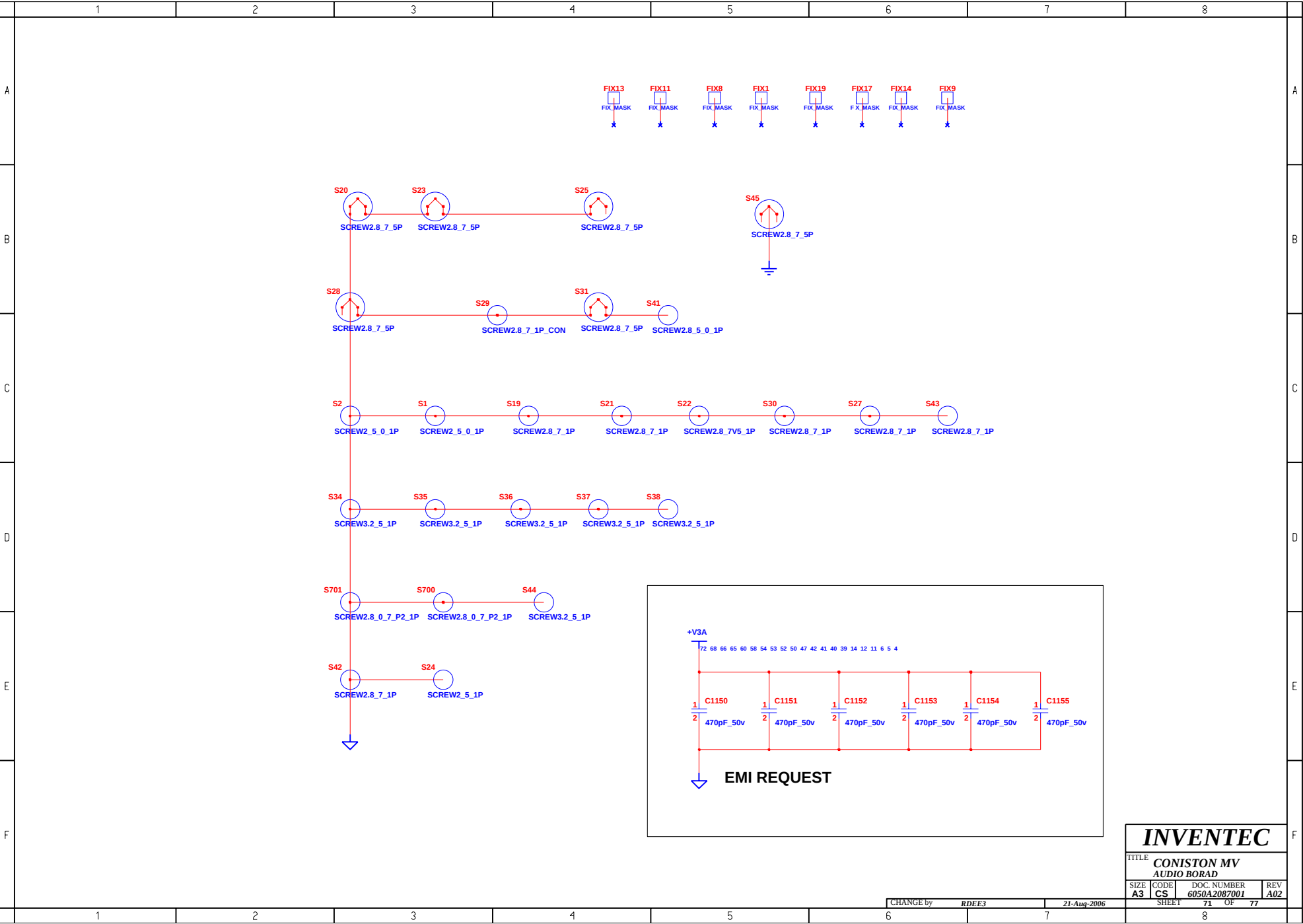
SIZE **A3** CODE **CS** DOC. NUMBER **6050A2087001** REV **A02**

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

SHEET **66** OF **77**







INVENTEC

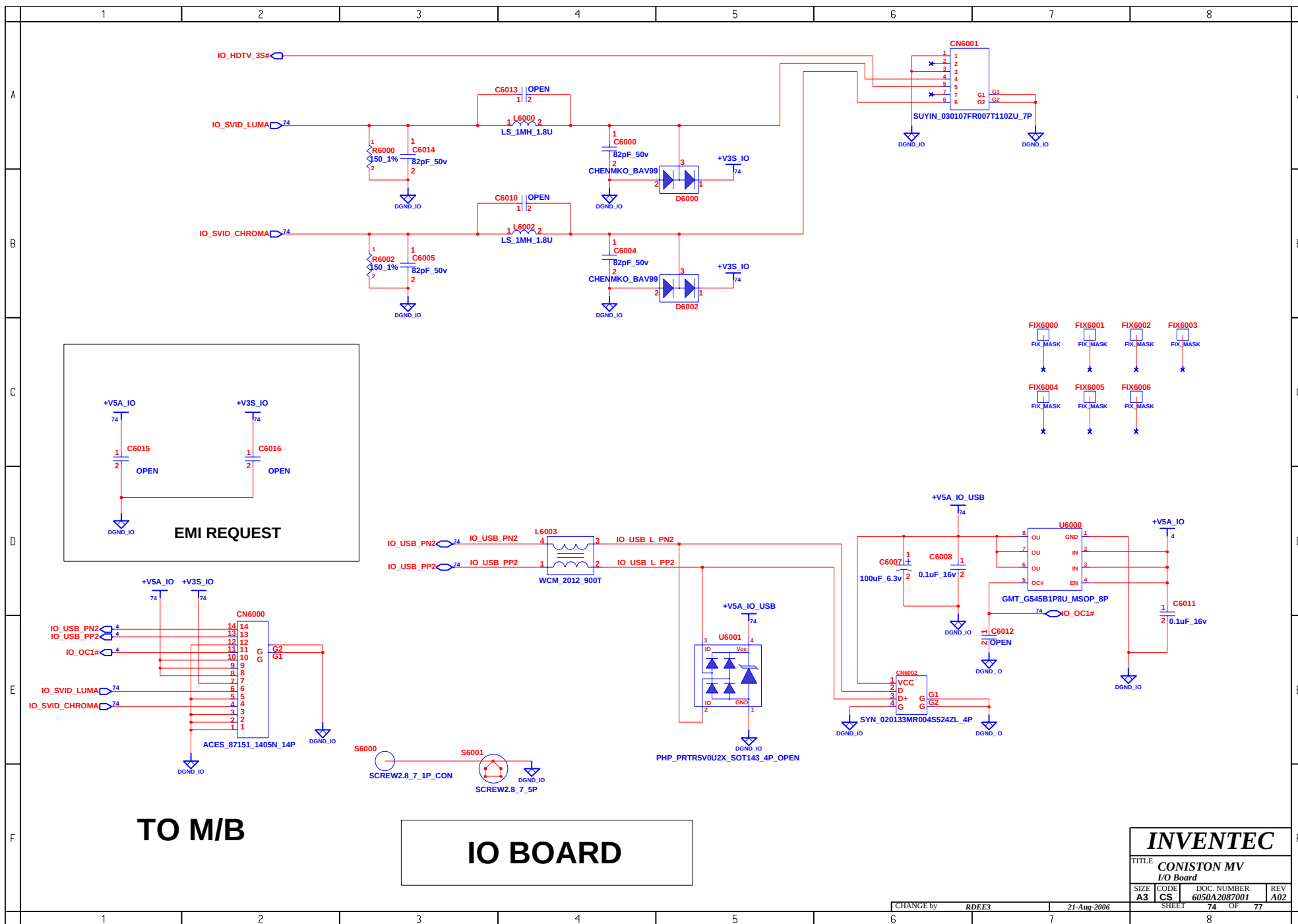
TITLE			
CONISTON MV			
AUDIO BORAD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

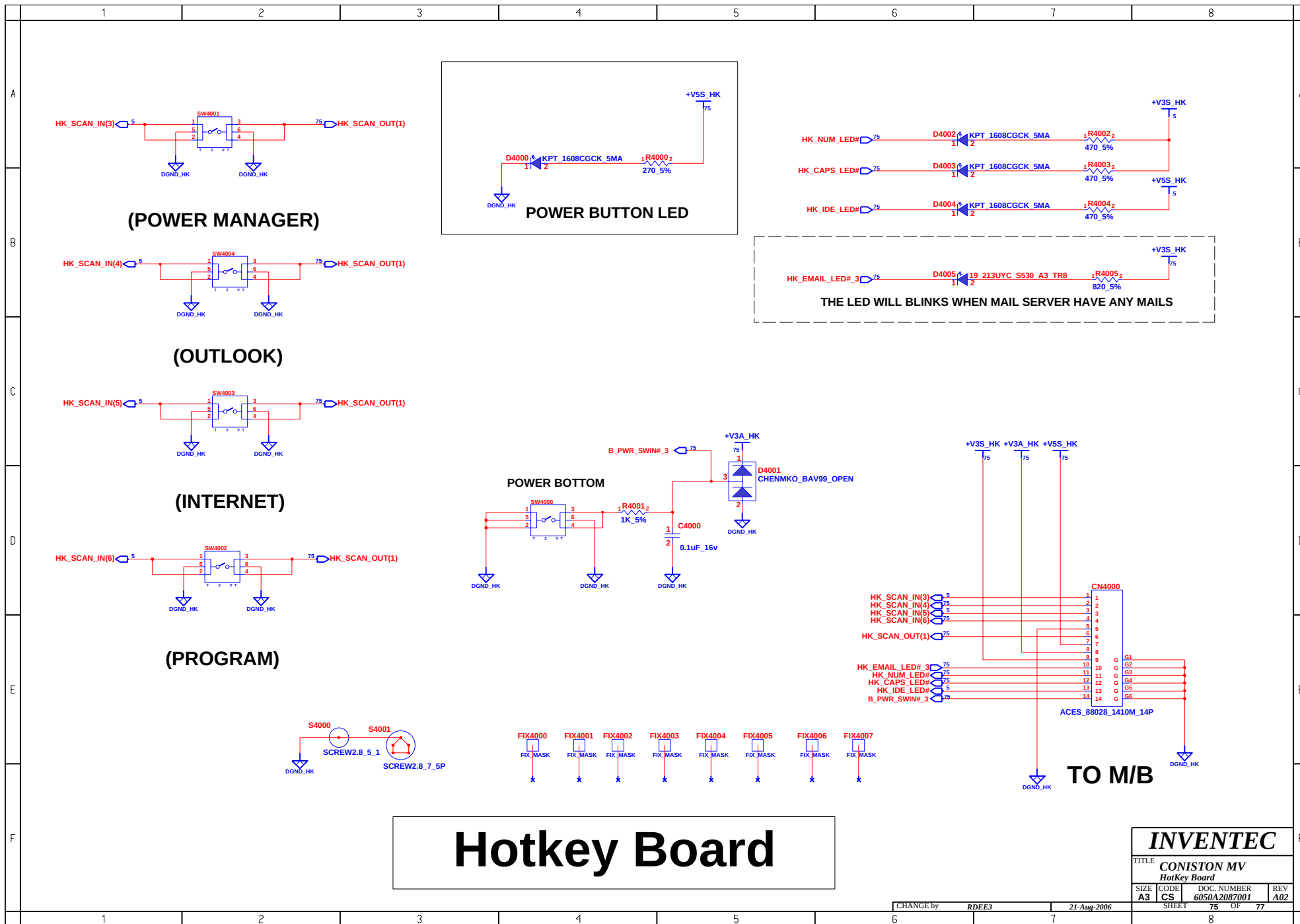
CHANGE by RDEE3 21-Aug-2006

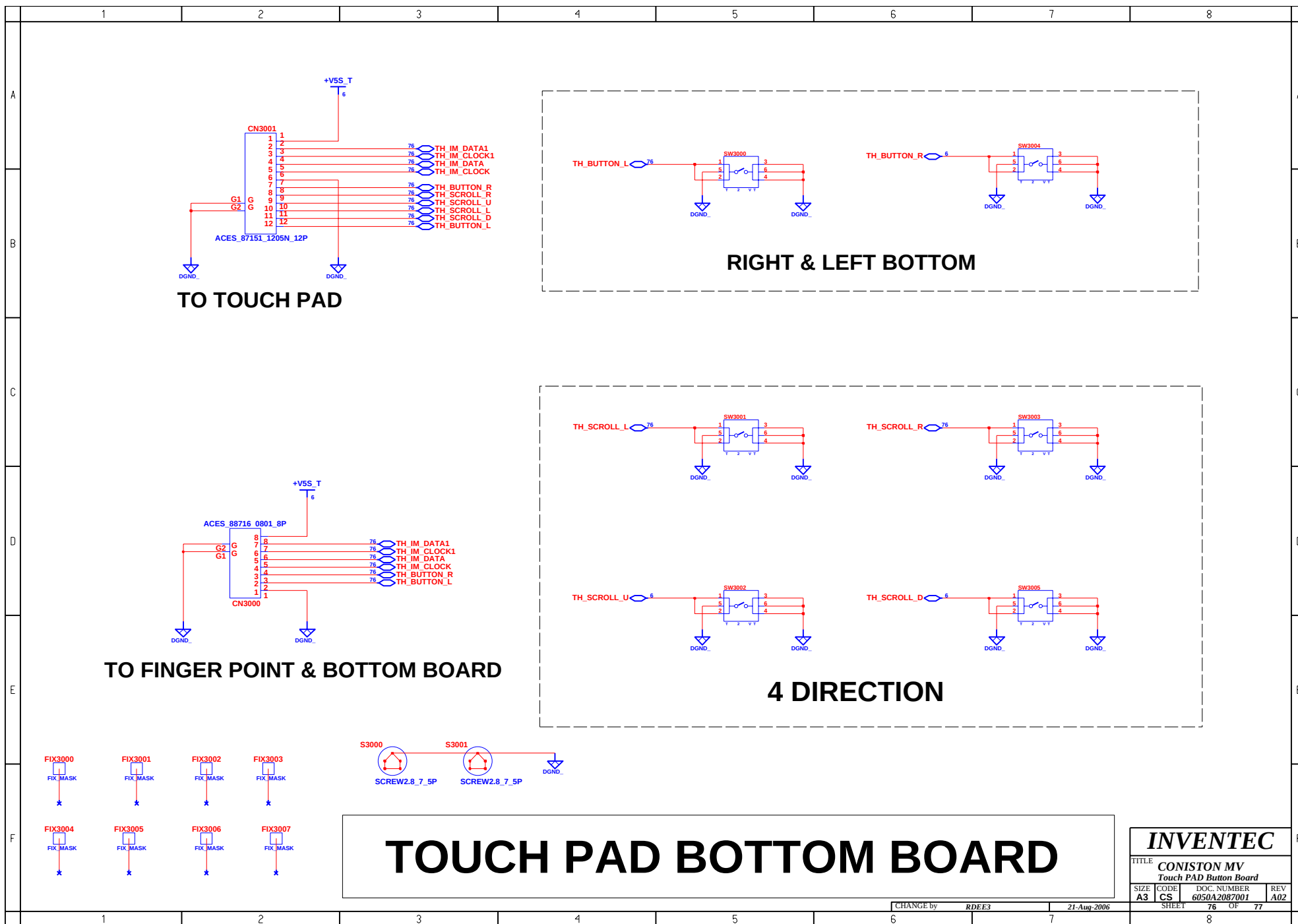
SHEET 71 OF 77

	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	
1	2	3	4	5	6	7	8		

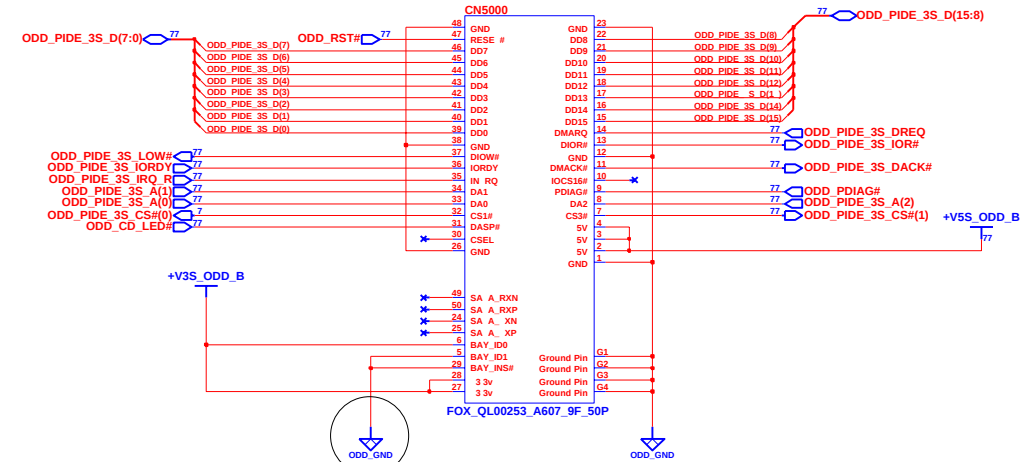
INVENTEC			
TITLE <i>CONISTON MV Finger PRINTER Board</i>			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 73 OF 77			



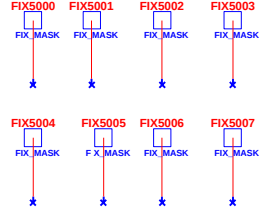
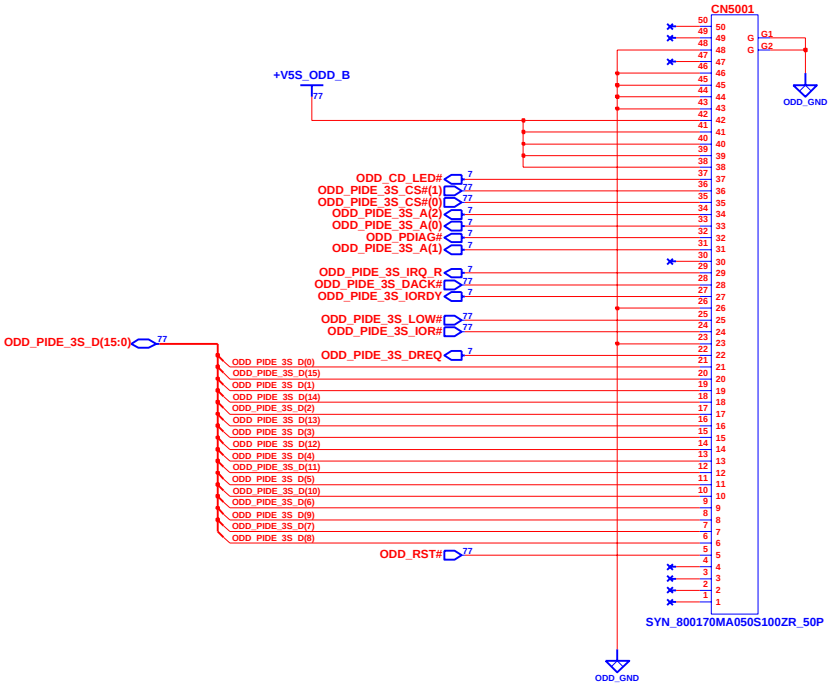
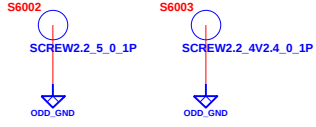




BAY_ID0	BAY_ID1	DEVICE
0	0	RESERVE
0	1	PATA HDD
1	0	PATA ODD
1	1	SATA HDD



WHEN SYSTEM "BAY INS#" GET A "LOW" SYSTEM WILL TURN ON ODD POWER.



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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