

	1	2	3	4	5	6	7	8
A								
B								
C	Pantanal							
D	CS-BUILD							
E	2007 0314							
F								

DATE	CHANGE NO.	REV
1		2
		3
		4
		5
		6
		7
		8

DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE = 3 VER :				
FILE NAME : XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX			
SHEET 1 OF 75				

INVENTEC			
TITLE Pantanal			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01

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

Pantanal
CS-BUILD

2007 0314

DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE =	3			VER :
FILE NAME :	XXXX-XXXXXX-XX			
P/N	XXXXXXXXXXXX			

INVENTEC			
TITLE Pantanal			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
SHEET 1	OF 75		

DATE	CHANGE NO.	REV
1		2
3		4
5		6
7		8

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

Pantanal

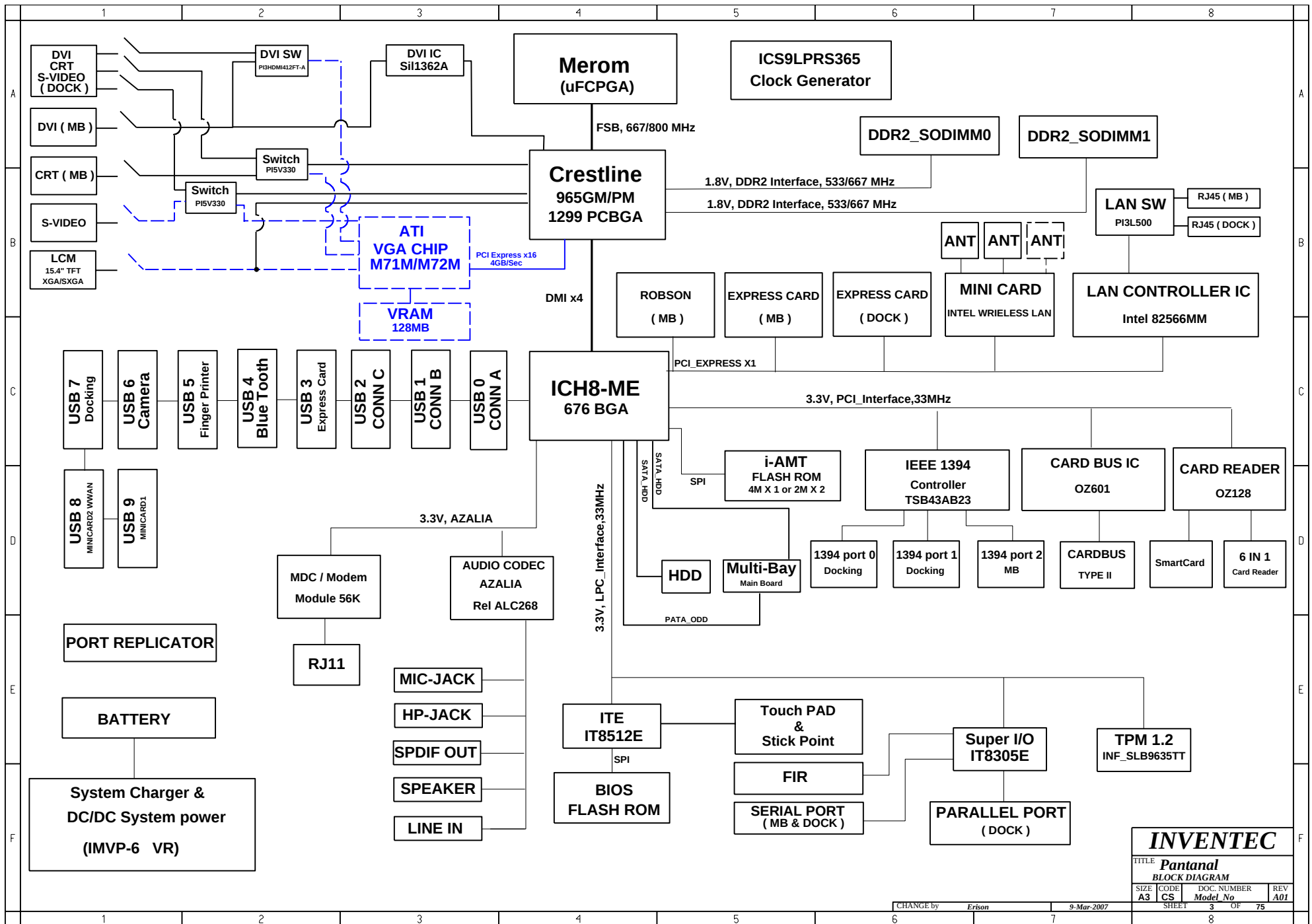
CS-BUILD

2007 0314

DATE	CHANGE NO.	REV

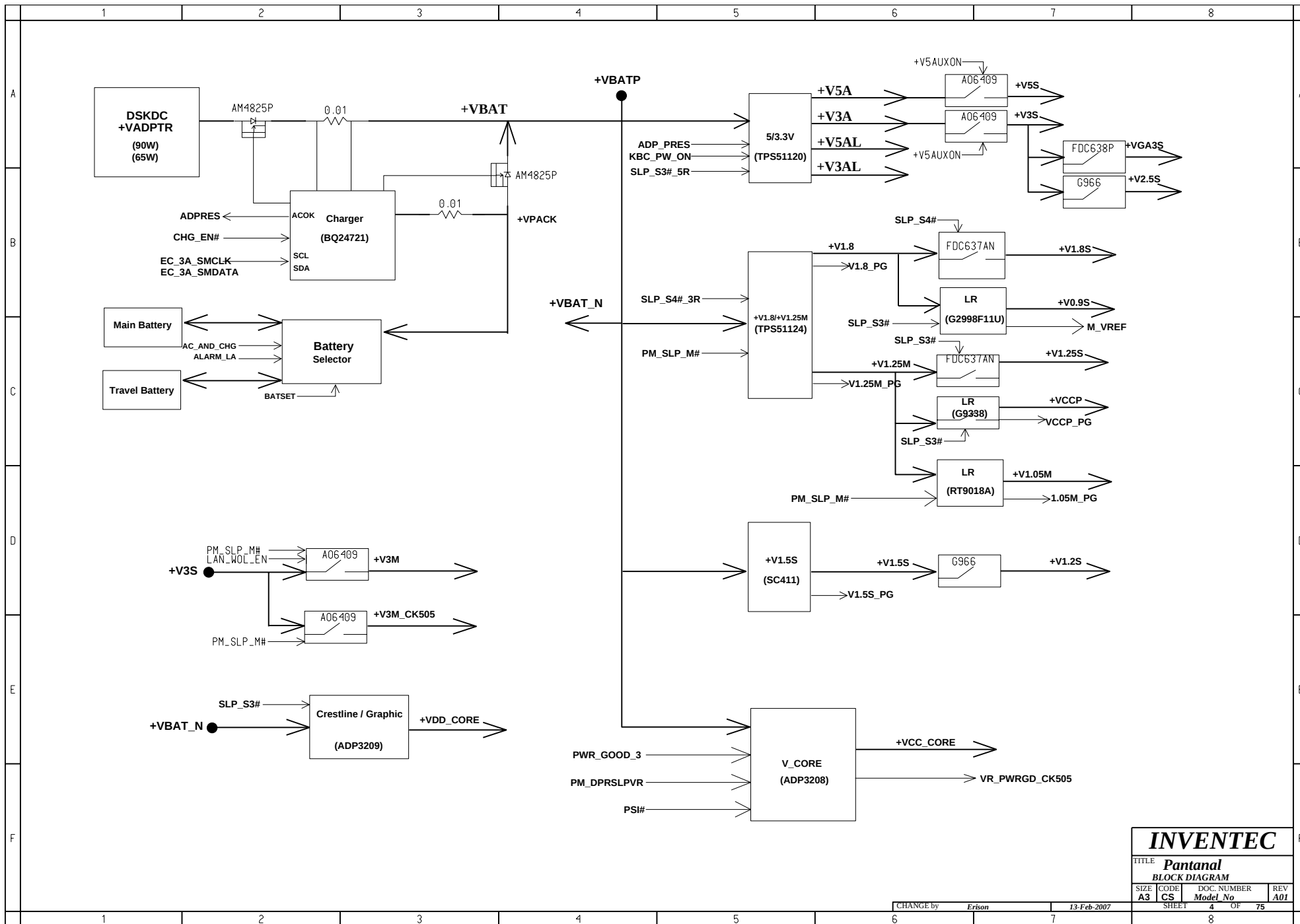
DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE = 3		VER :		
FILE NAME : XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX			

SHEET	1	OF	75
TITLE	INVENTEC <i>Pantanal</i>		
SIZE	A3	CODE	CS
DOC. NUMBER	Model No		REV A01



INVENTEC

TITLE Pantanal			
BLOCK DIAGRAM			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by Erison		9-Mar-2007	
SHEET 3		OF 75	



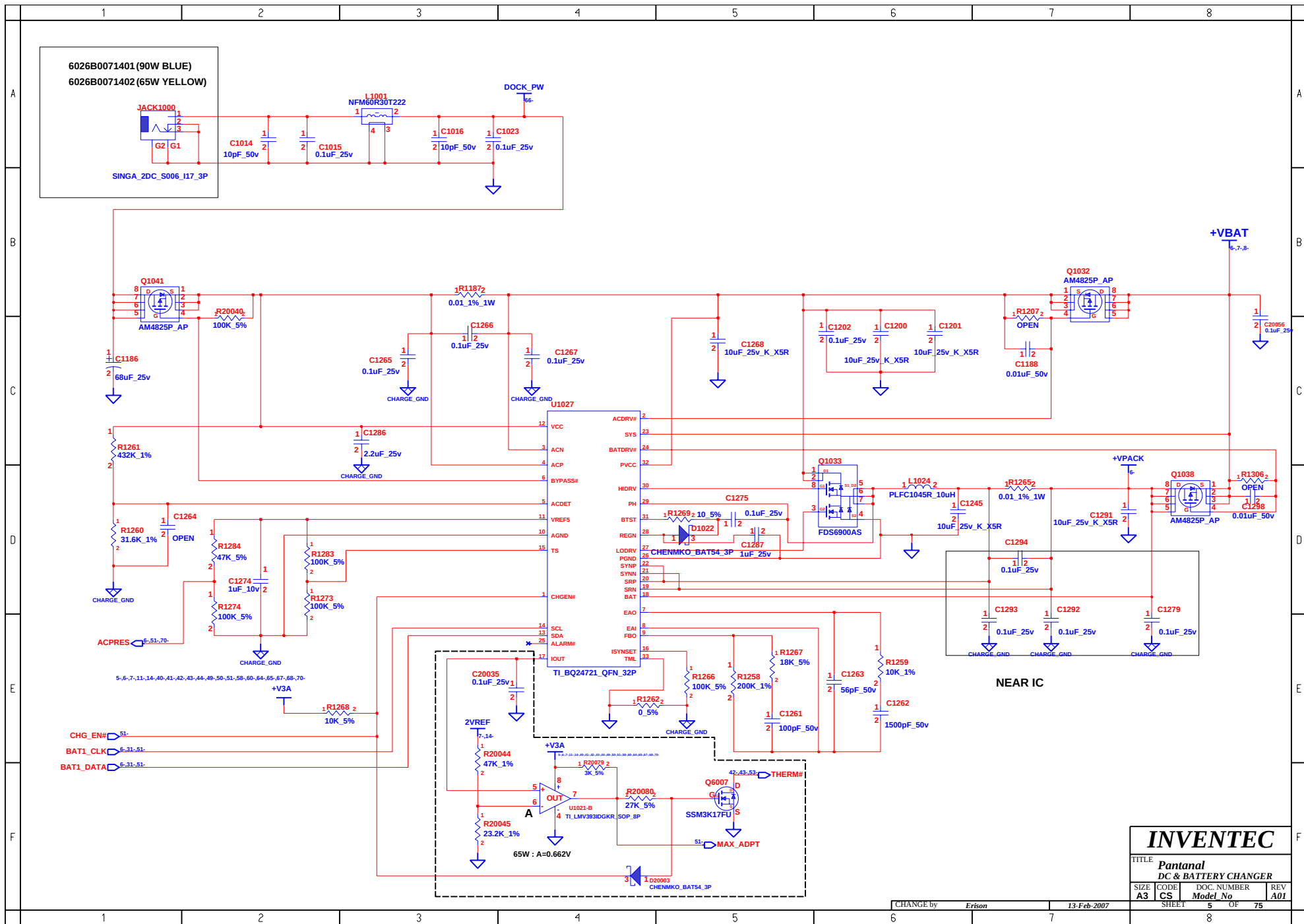
INVENTEC

TITLE **Pantanal**
BLOCK DIAGRAM

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Erison* 13-Feb-2007

SHEET 4 OF 75



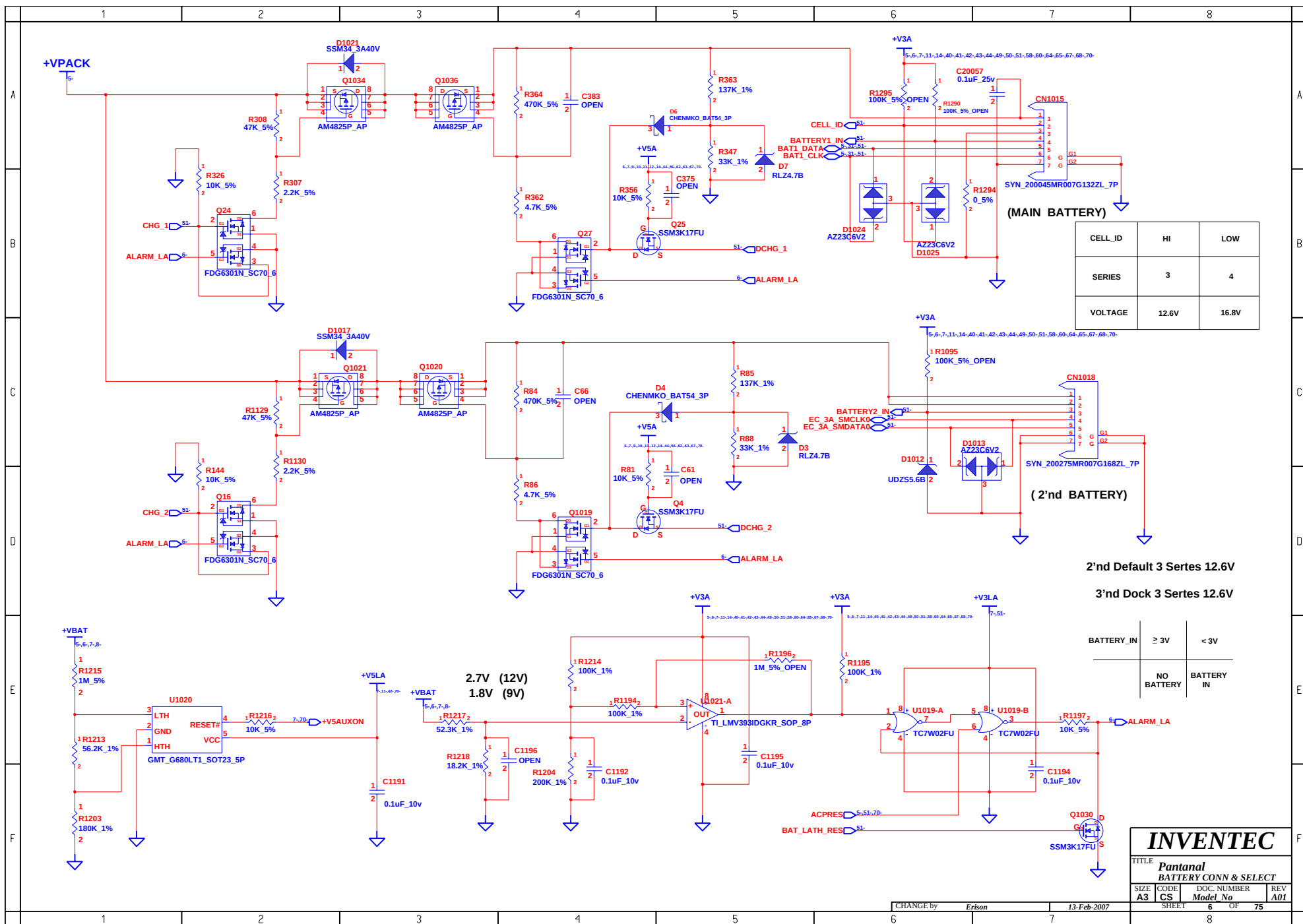
INVENTEC

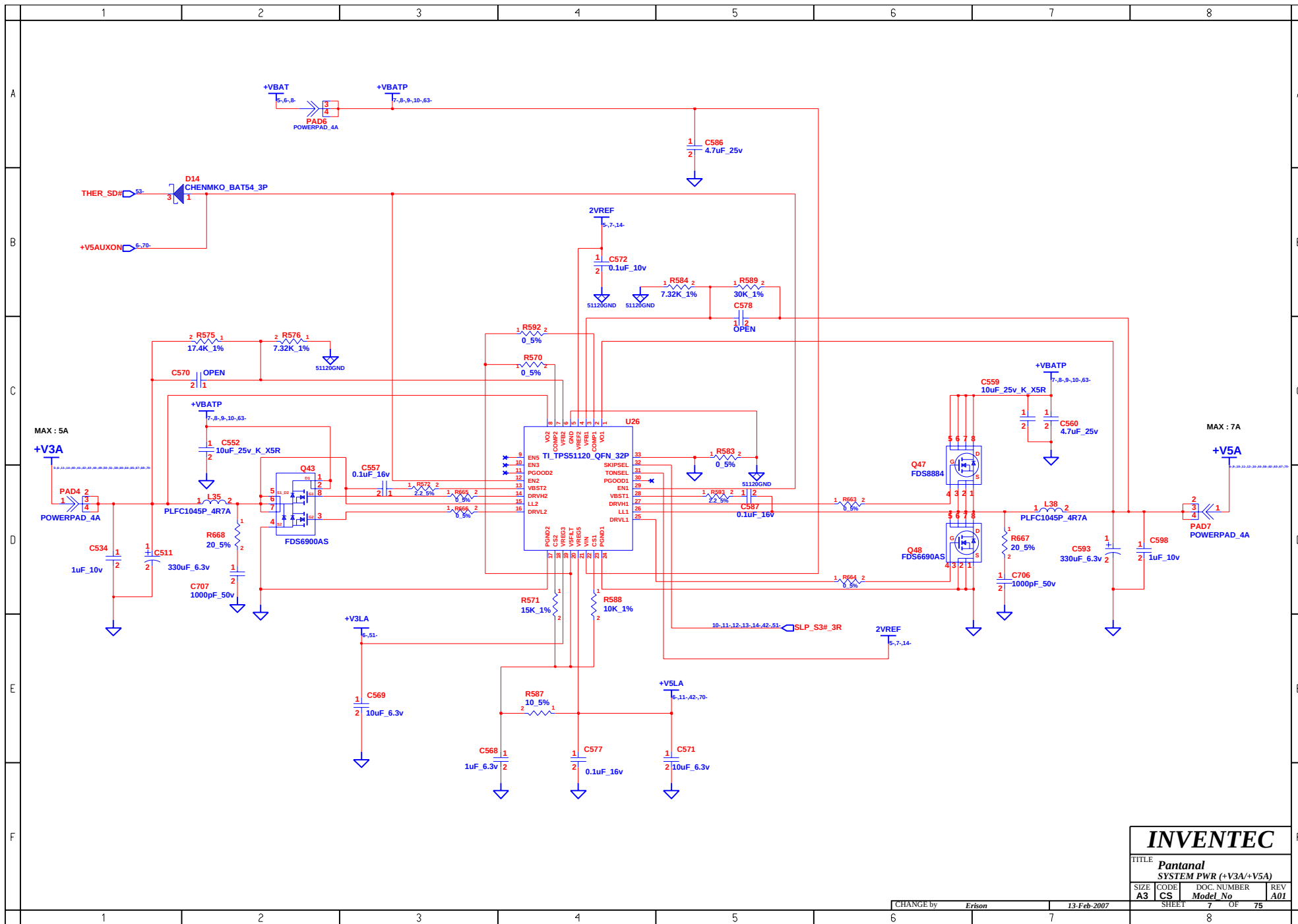
TITLE			
Pantanal			
DC & BATTERY CHARGER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison

13-Feb-2007

SHEET 5 OF 75



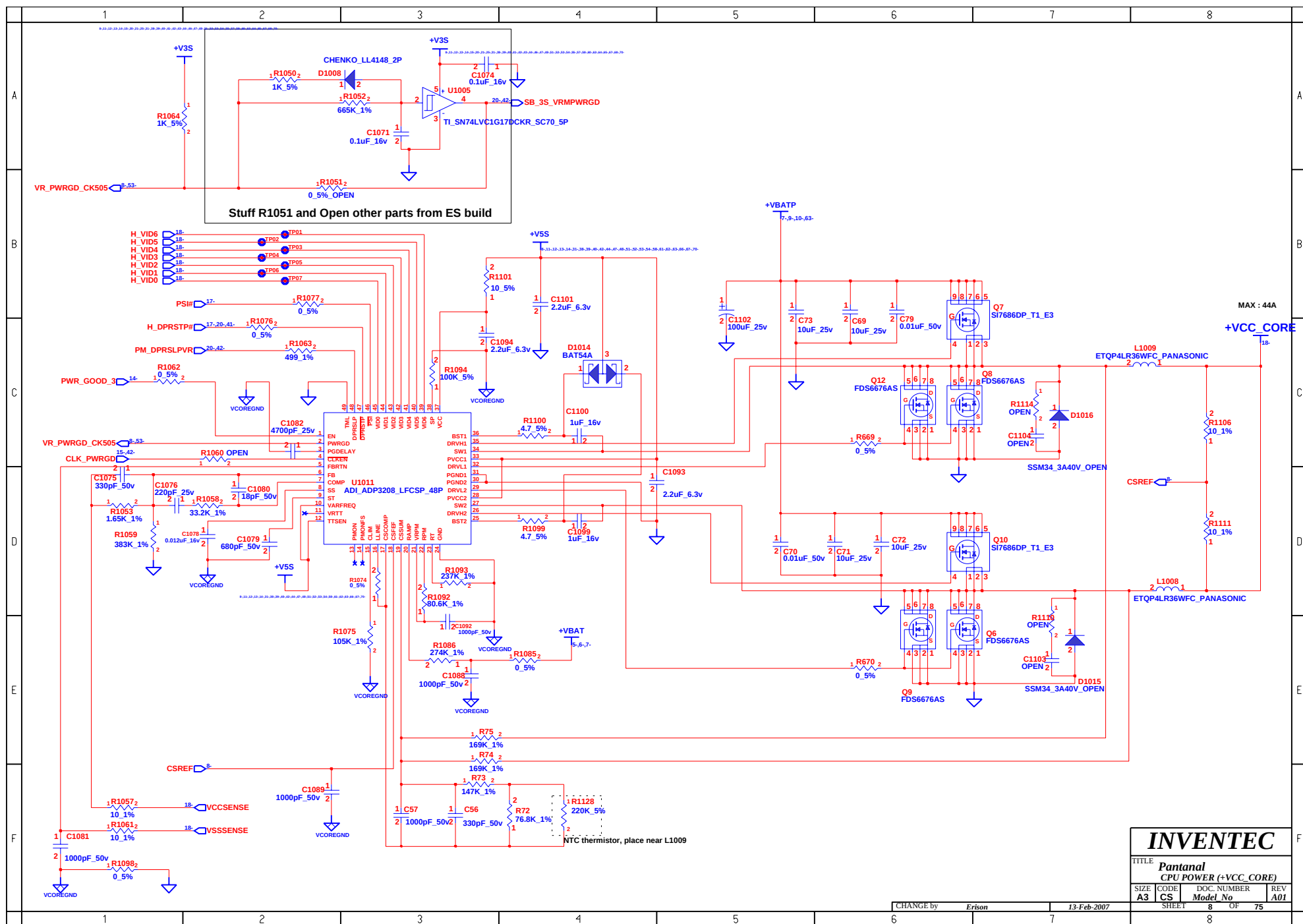


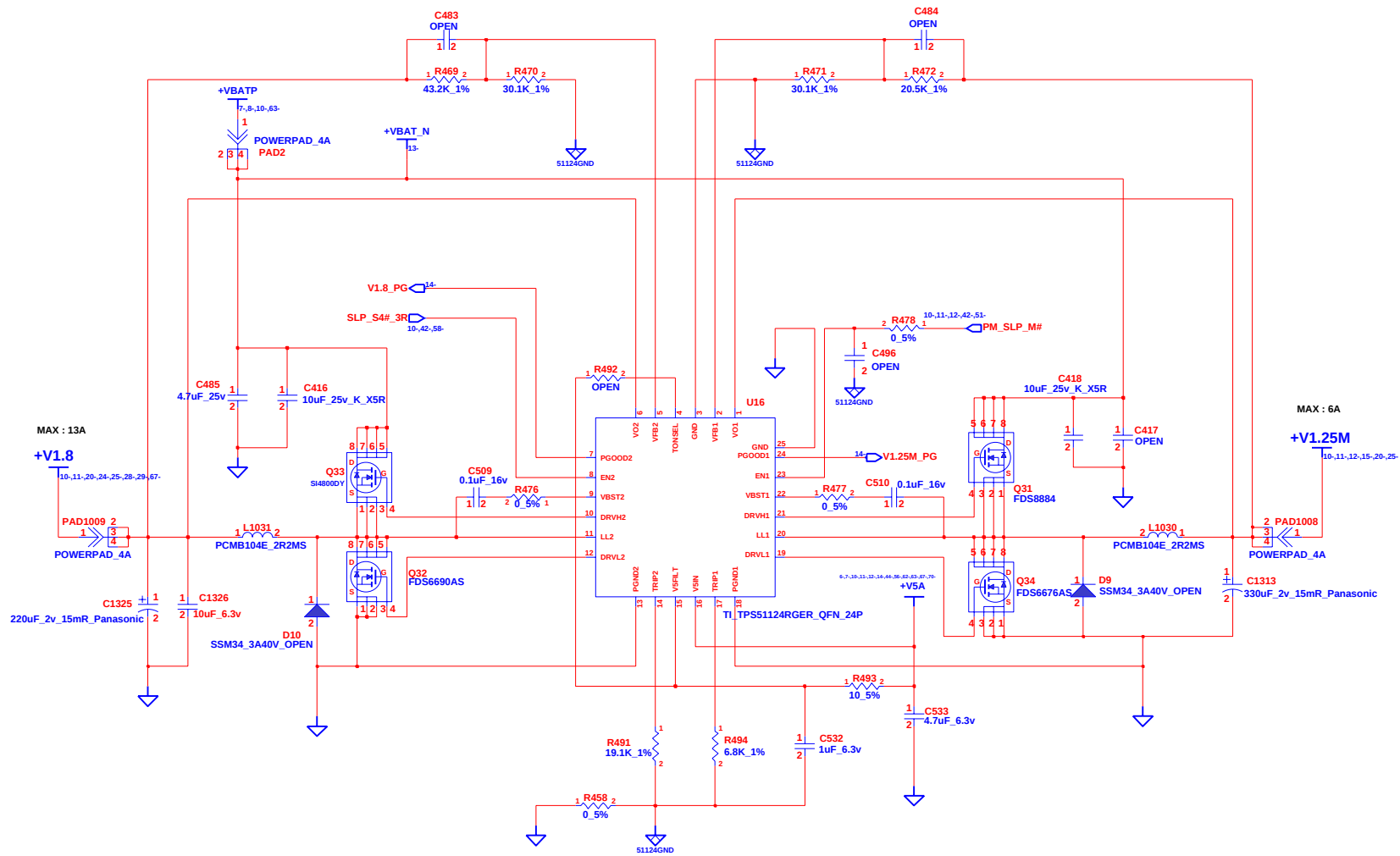
INVENTEC

TITLE			
Pantanal			
SYSTEM PWR (+V3A/+V5A)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 13-Feb-2007

SHEET 7 OF 75



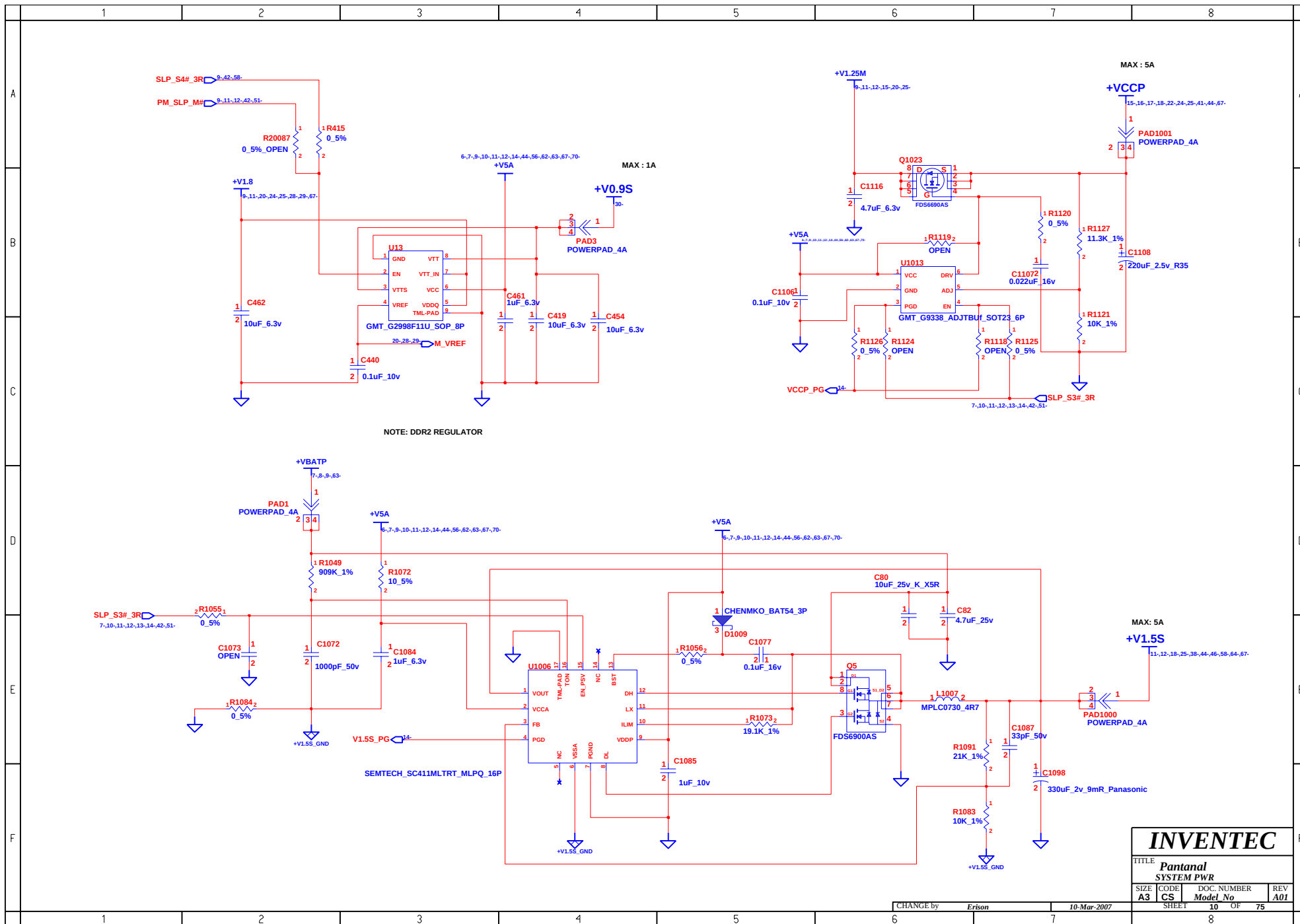


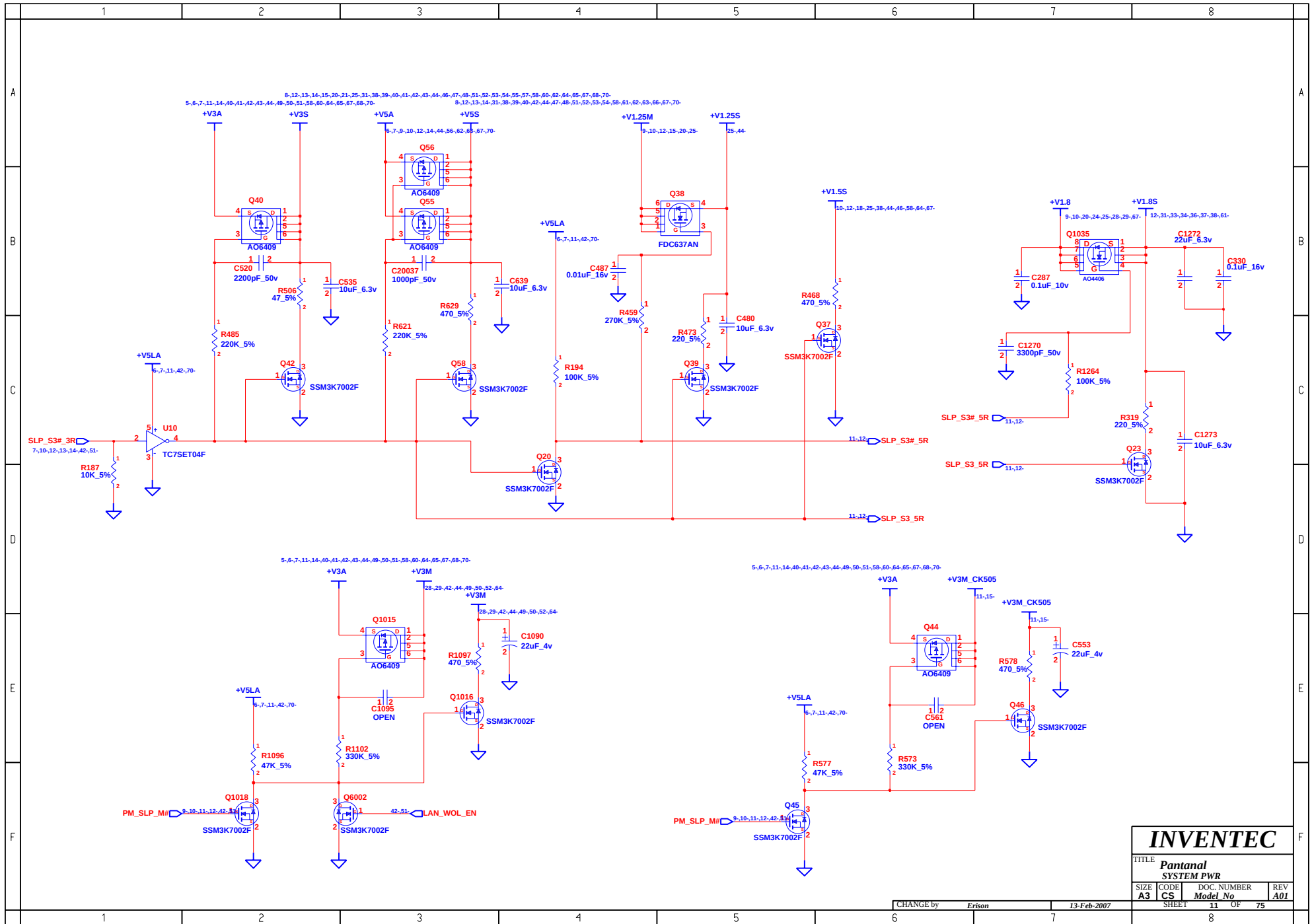
INVENTEC

TITLE			
Pantanal SYSTEM PWR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 13-Feb-2007

SHEET 9 OF 75



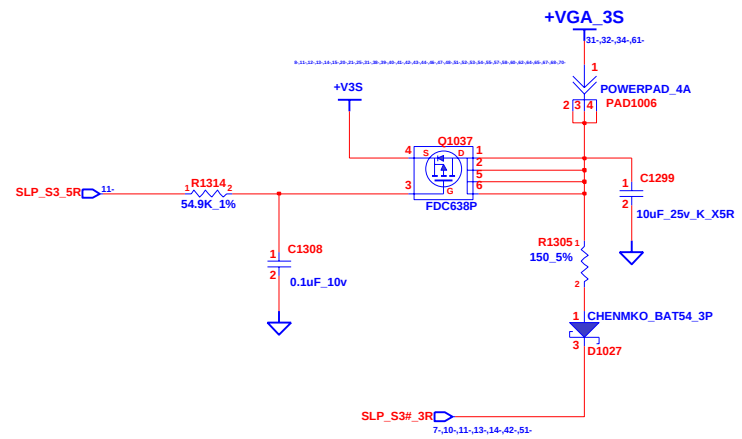
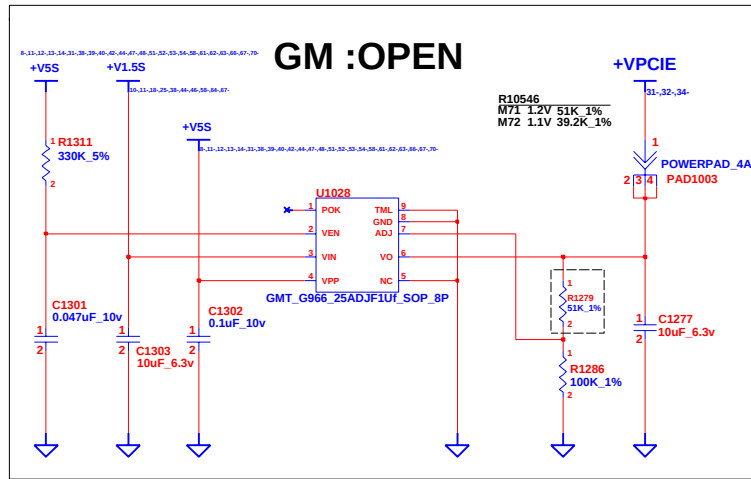
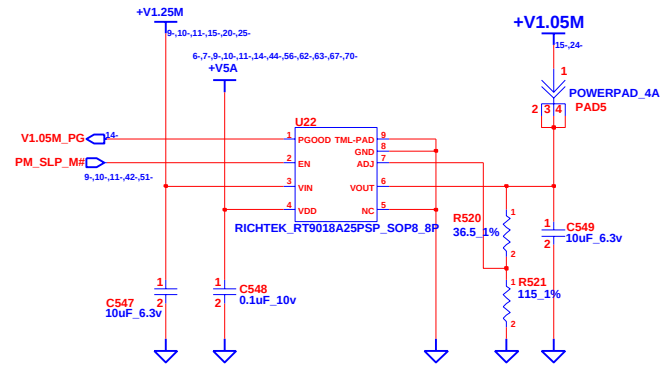
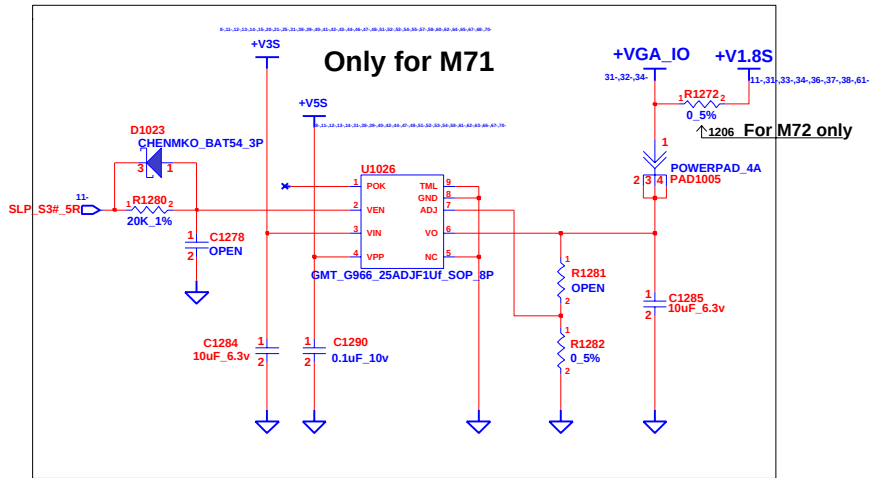


INVENTEC

TITLE			
Pantanal SYSTEM PWR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 13-Feb-2007

SHEET 11 OF 75

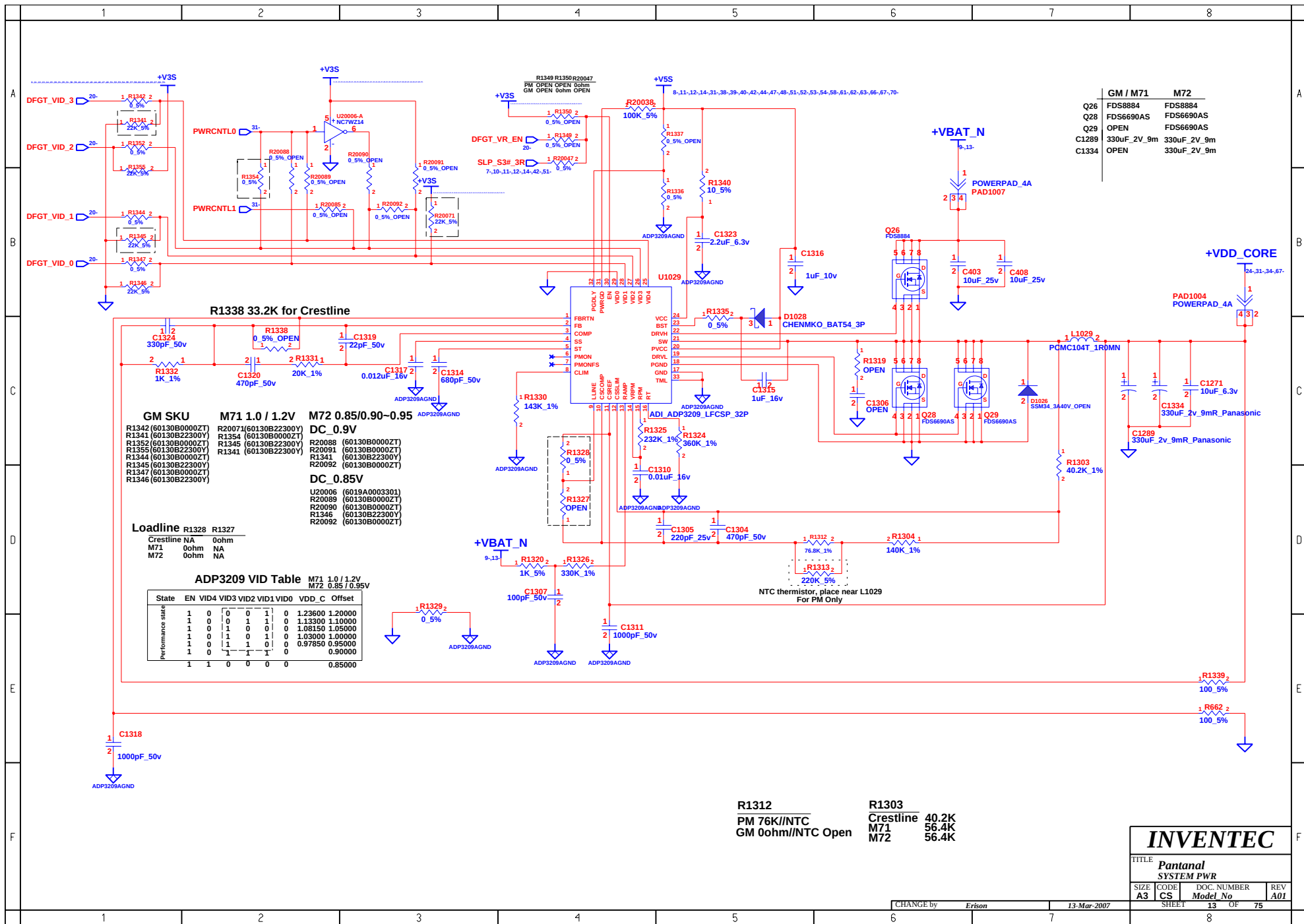


INVENTEC

TITLE			
Pantanal SYSTEM PWR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 13-Feb-2007

SHEET 12 OF 75



GM / M71		M72
Q26	FDS8884	FDS8884
Q28	FDS6690AS	FDS6690AS
Q29	OPEN	FDS6690AS
C1289	330uF_2V_9m	330uF_2V_9m
C1334	OPEN	330uF_2V_9m

GM SKU	M71 1.0 / 1.2V	M72 0.85/0.90-0.95
R1342 (60130B0000ZT)	R20071 (60130B22300Y)	DC 0.9V
R1341 (60130B22300Y)	R1354 (60130B0000ZT)	
R1352 (60130B0000ZT)	R1345 (60130B22300Y)	
R1355 (60130B22300Y)	R1341 (60130B22300Y)	
R1344 (60130B0000ZT)		
R1345 (60130B22300Y)		
R1347 (60130B0000ZT)		
R1346 (60130B22300Y)		

DC 0.85V
U20006 (6019A0003301)
R20089 (60130B0000ZT)
R20090 (60130B0000ZT)
R1346 (60130B22300Y)
R20092 (60130B0000ZT)

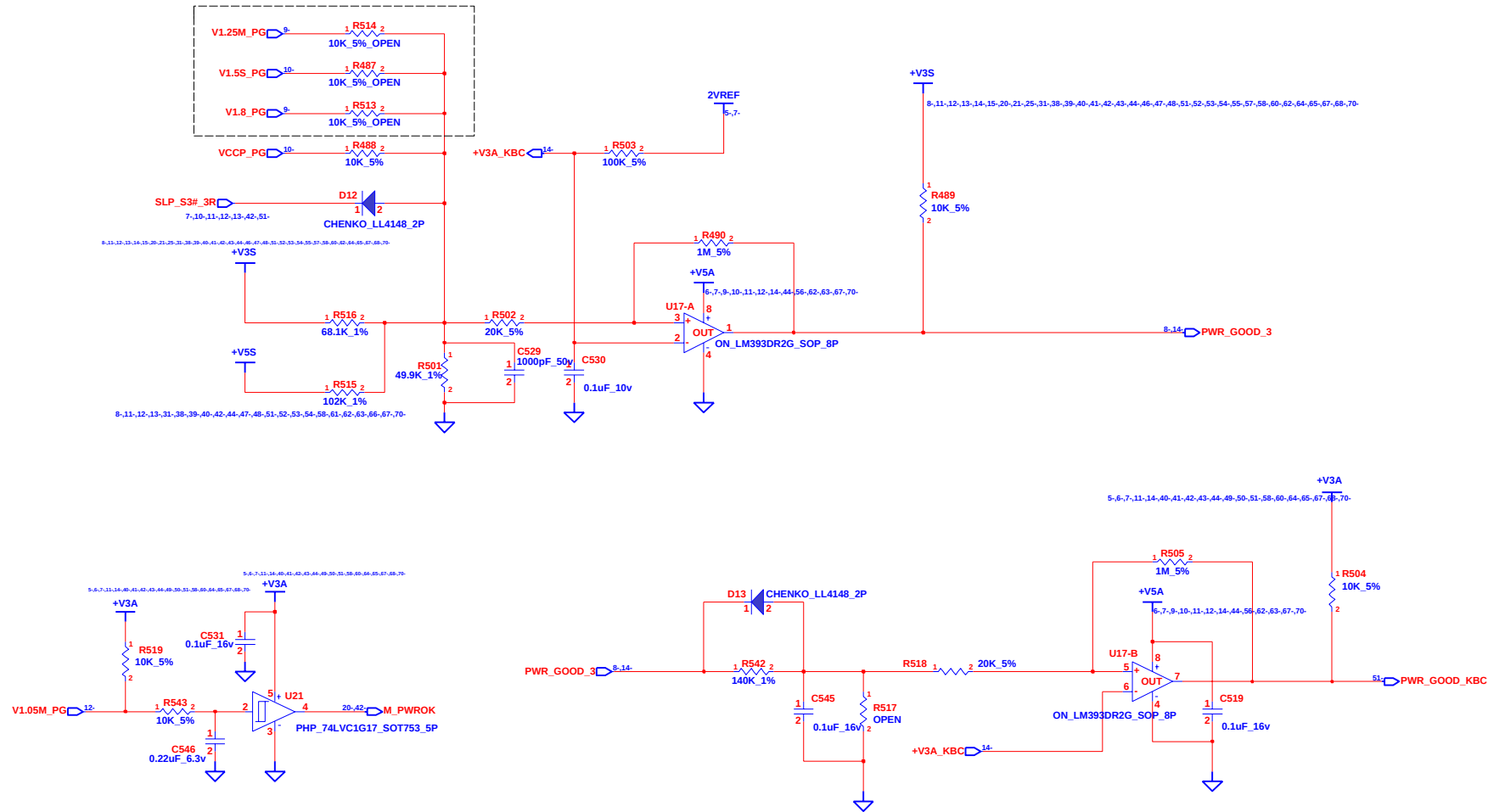
Loadline	R1328	R1327
Crestline NA	0ohm	
M71	0ohm	NA
M72	0ohm	NA

ADP3209 VID Table M71 1.0 / 1.2V M72 0.85 / 0.95V								
State	EN	VID4	VID3	VID2	VID1	VID0	VDD_C	Offset
Performance state	1	0	0	0	1	0	1.23600	1.20000
	1	0	0	1	1	0	1.13300	1.10000
	1	0	1	0	0	0	1.08150	1.05000
	1	0	1	0	1	0	1.03000	1.00000
	1	0	1	1	0	0	0.97850	0.95000
	1	0	1	1	1	0	0.90000	
	1	1	0	0	0	0	0.85000	

R1312	R1303
PM 76K/NTC	Crestline 40.2K
GM 0ohm/NTC Open	M71 56.4K
	M72 56.4K

INVENTEC			
TITLE Pantanal SYSTEM PWR			
SIZE A3	CODE CS	DOC. NUMBER	REV A01
SHEET 13		OF 75	

CHANGE by	Erison	13-Mar-2007
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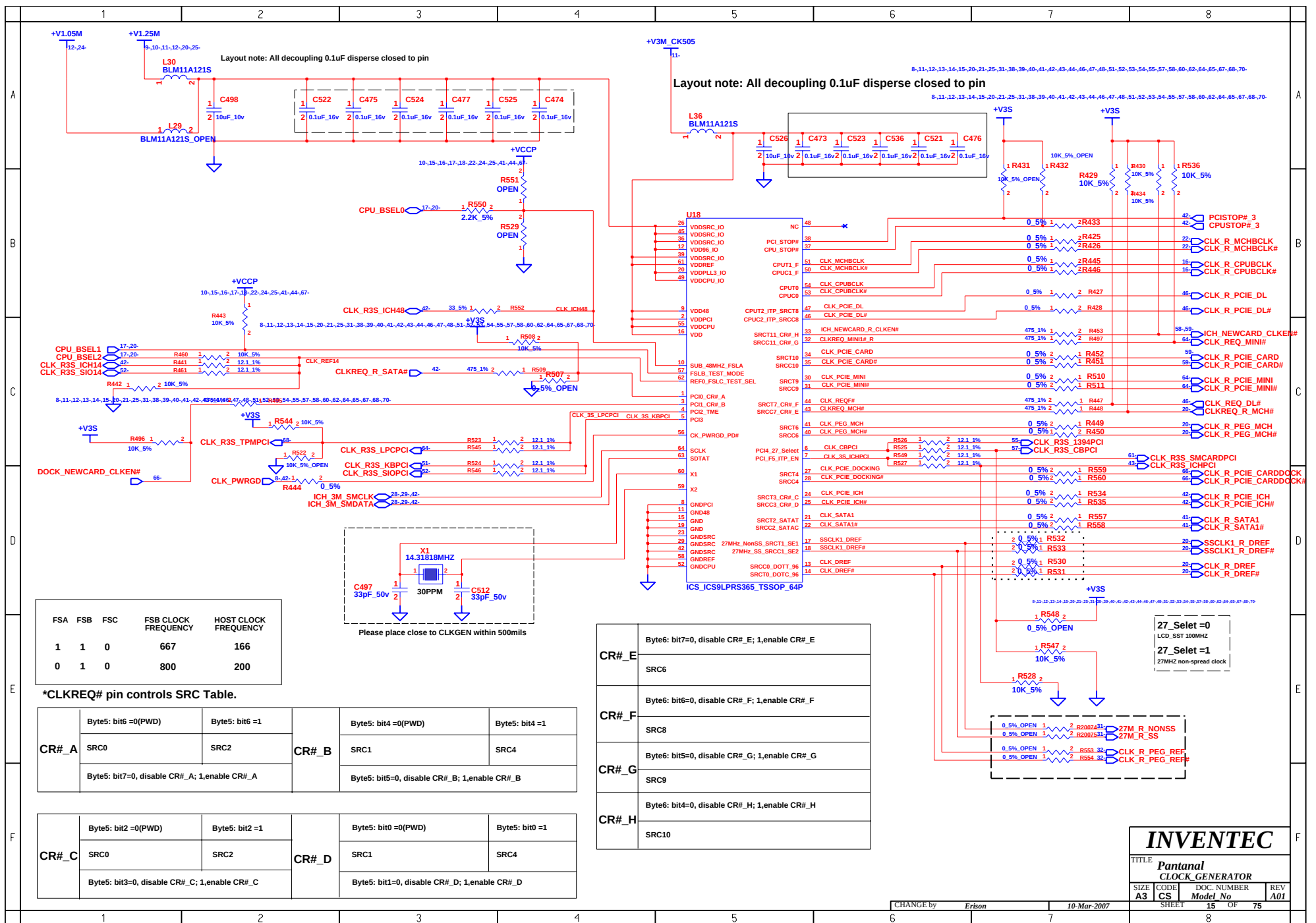


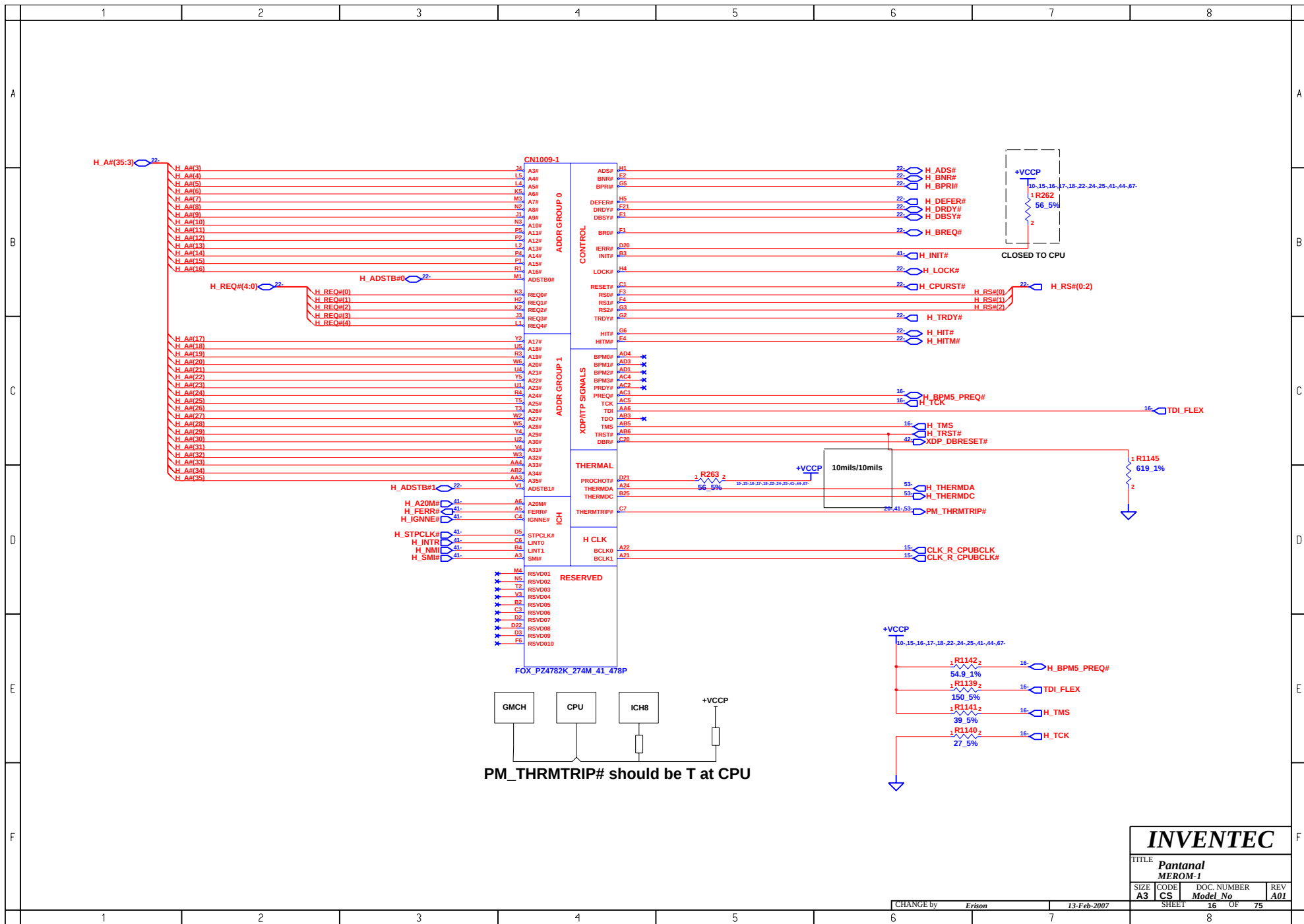
INVENTEC

TITLE			
Pantanal SYSTEM PWR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Erison* 13-Feb-2007

SHEET 14 OF 75

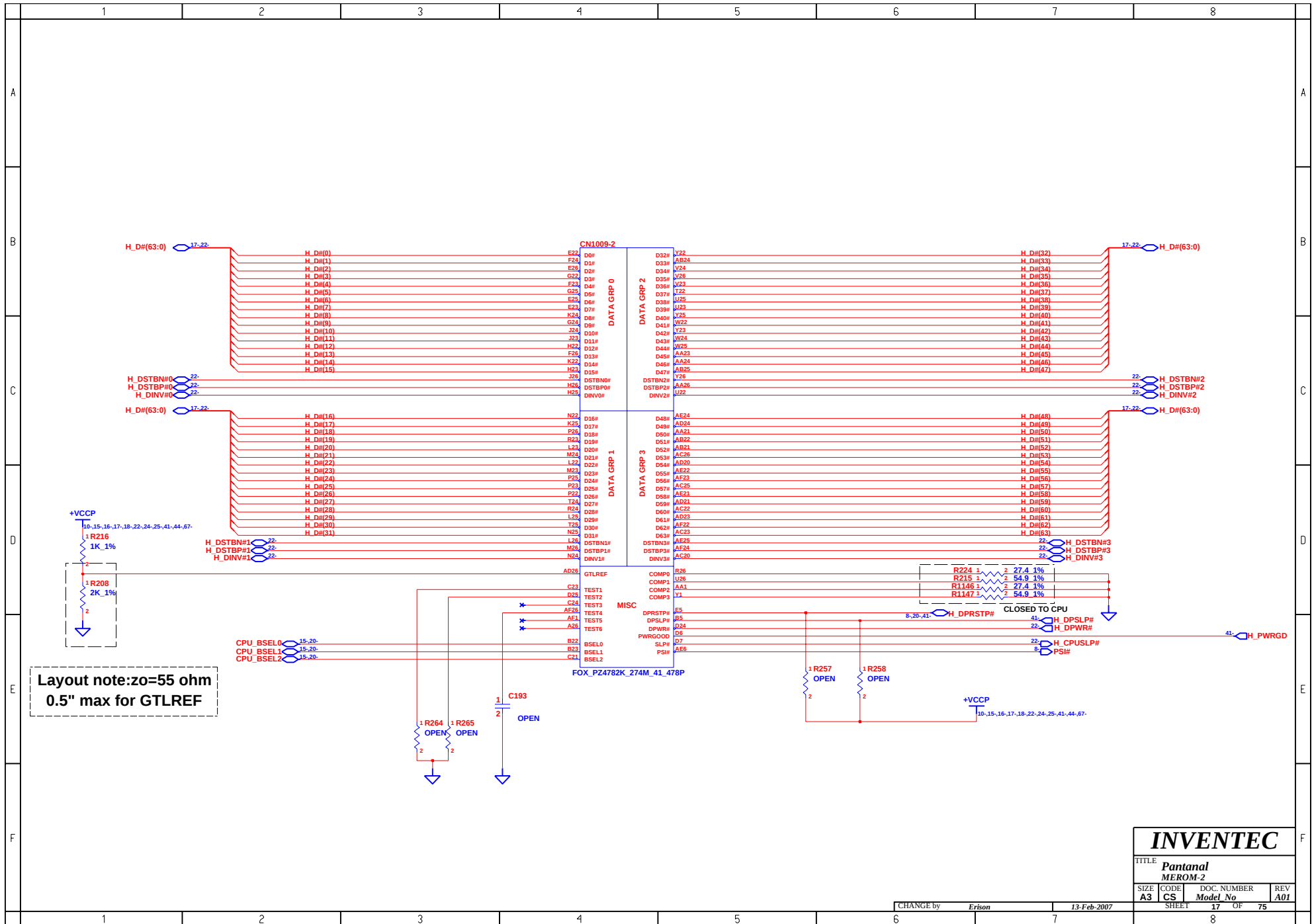


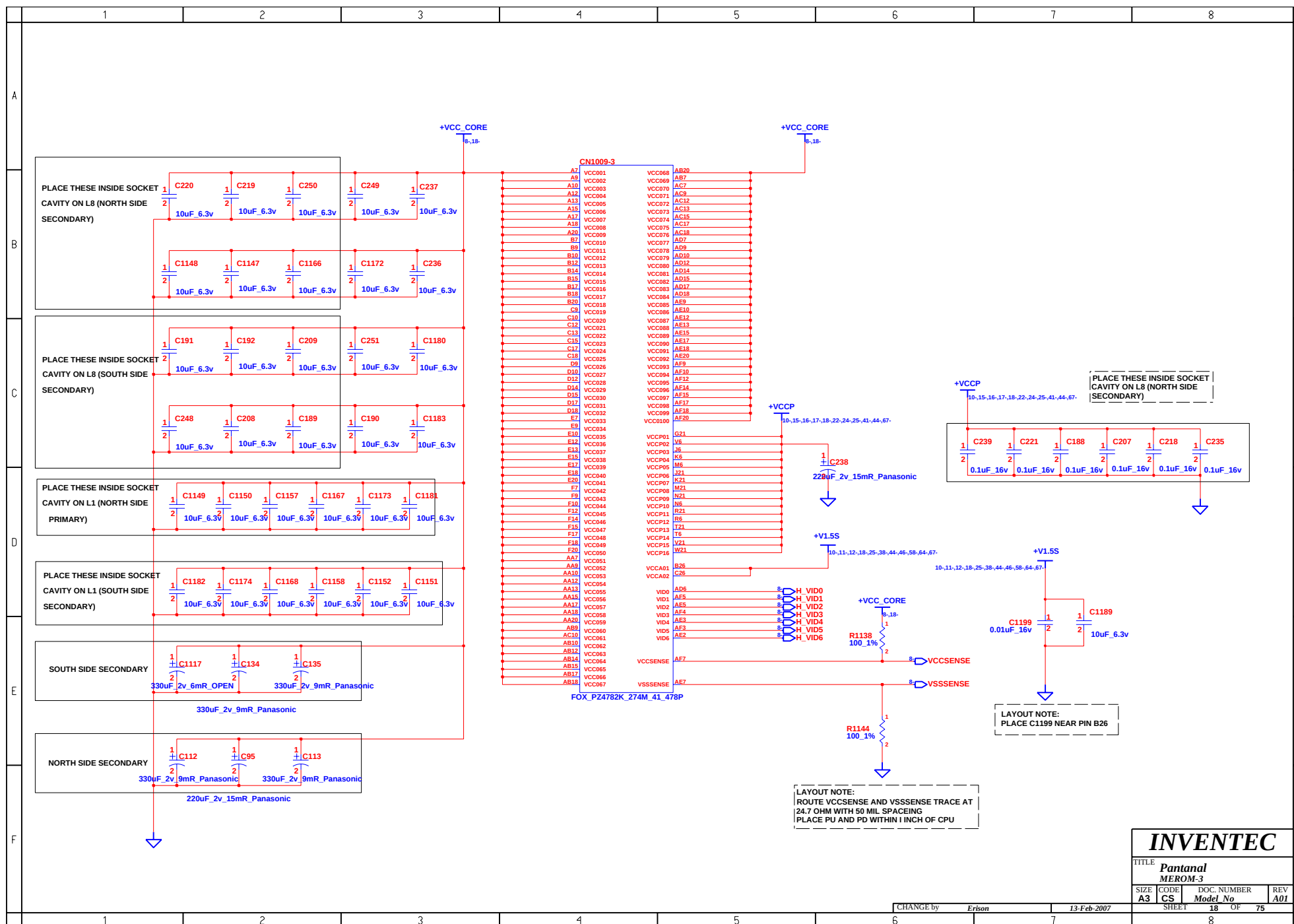


INVENTEC			
TITLE			
Pantanal			
MEROM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

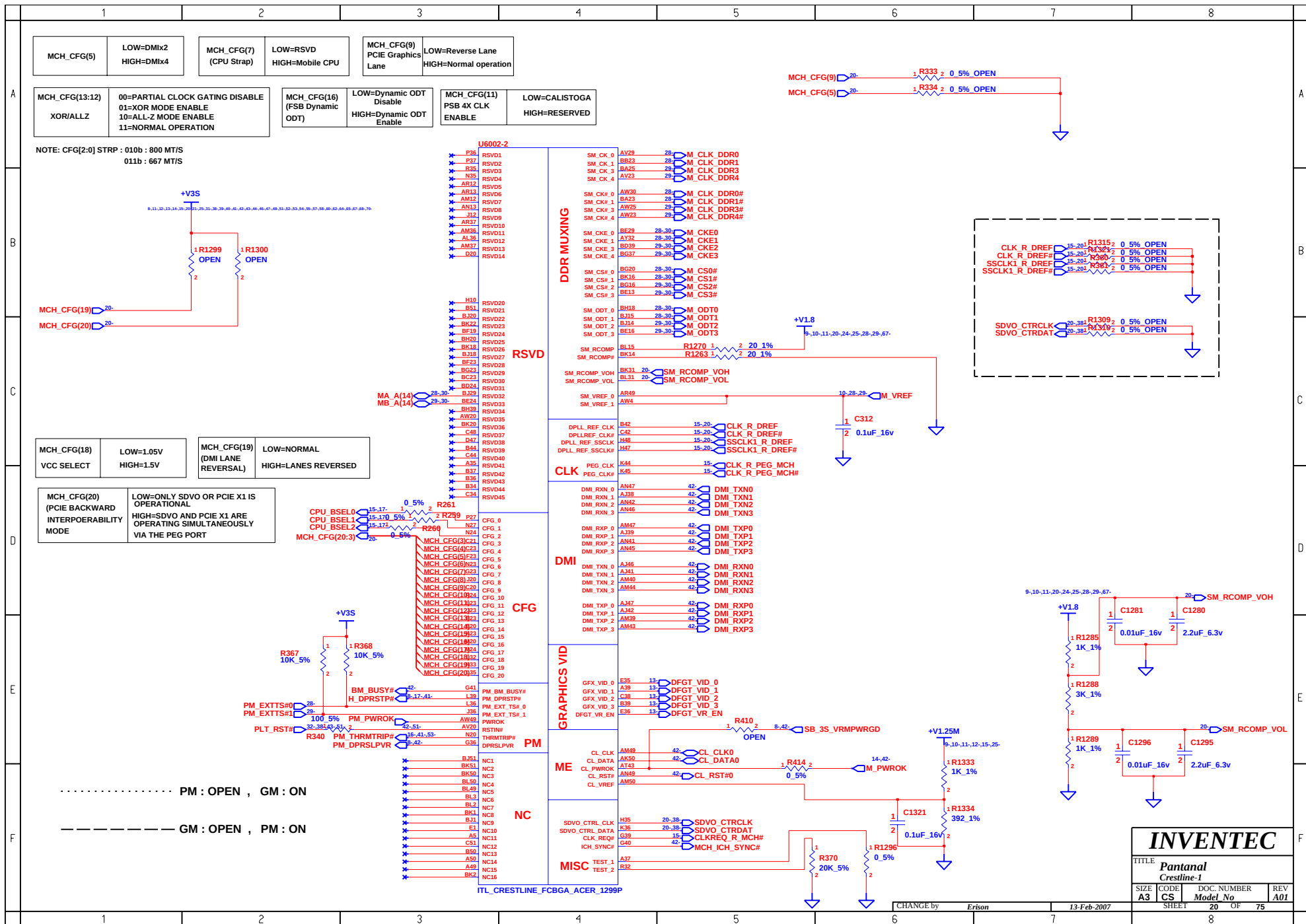
CHANGE by Erison 13-Feb-2007

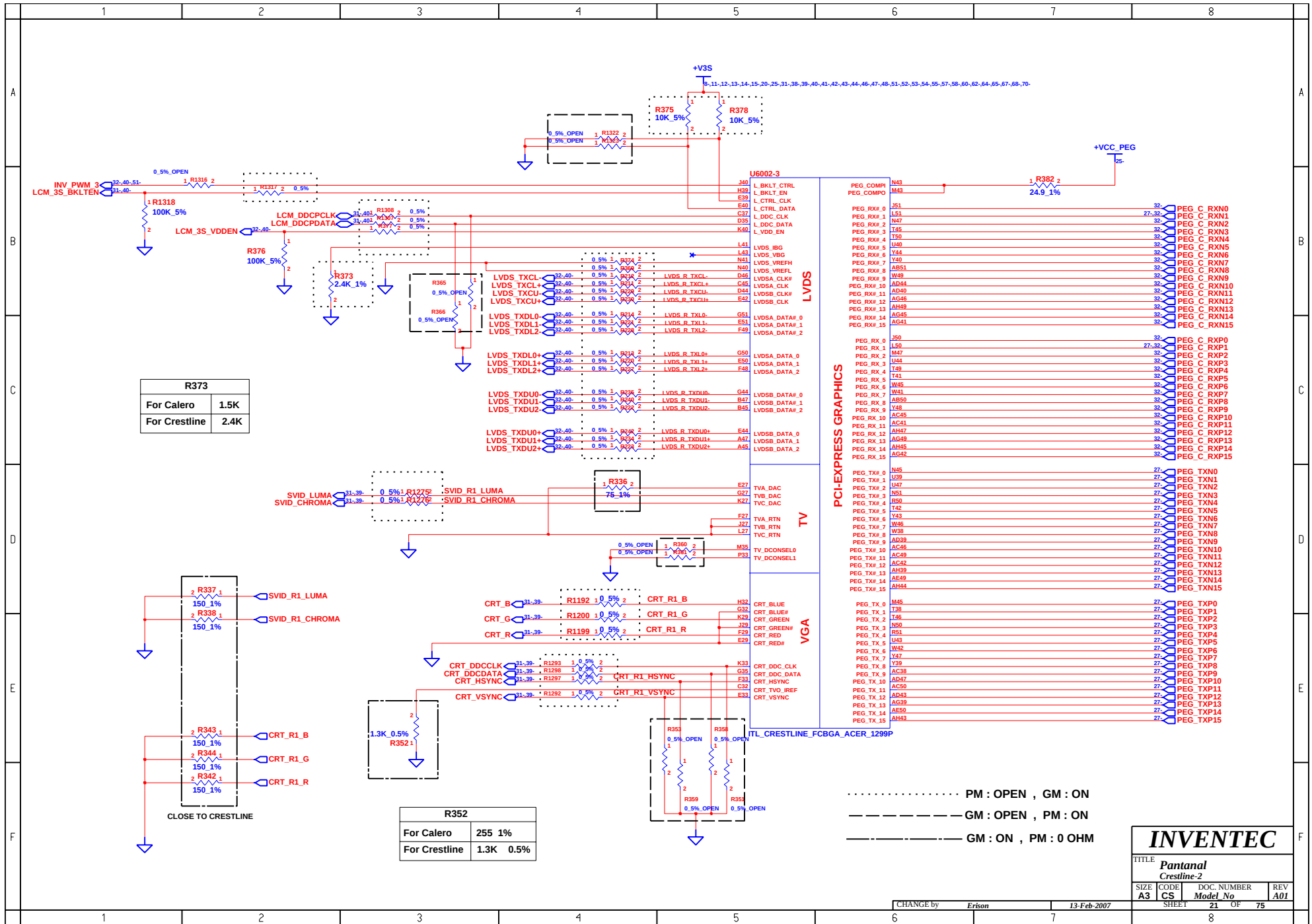
SHEET 16 OF 75

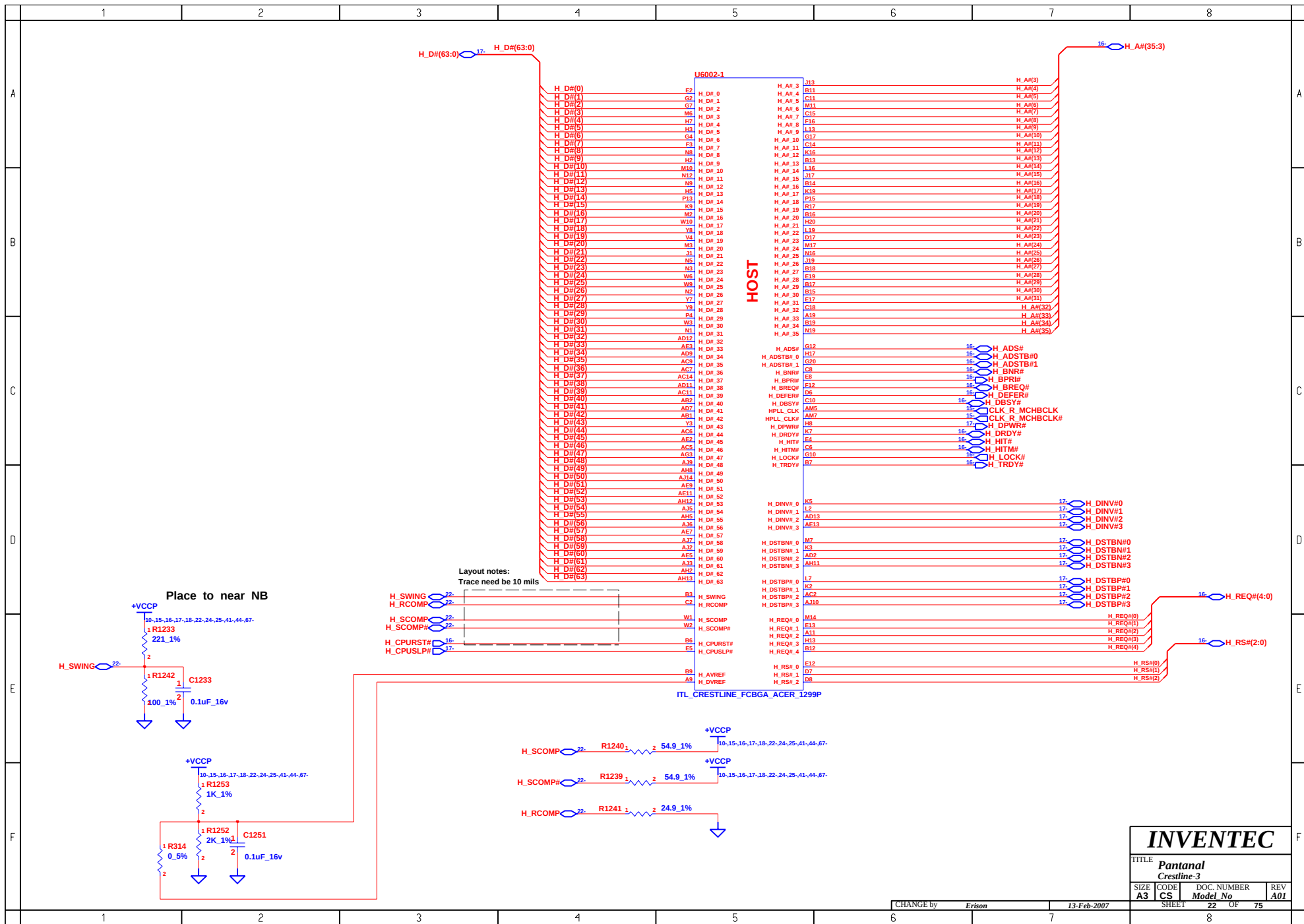




[illegible]





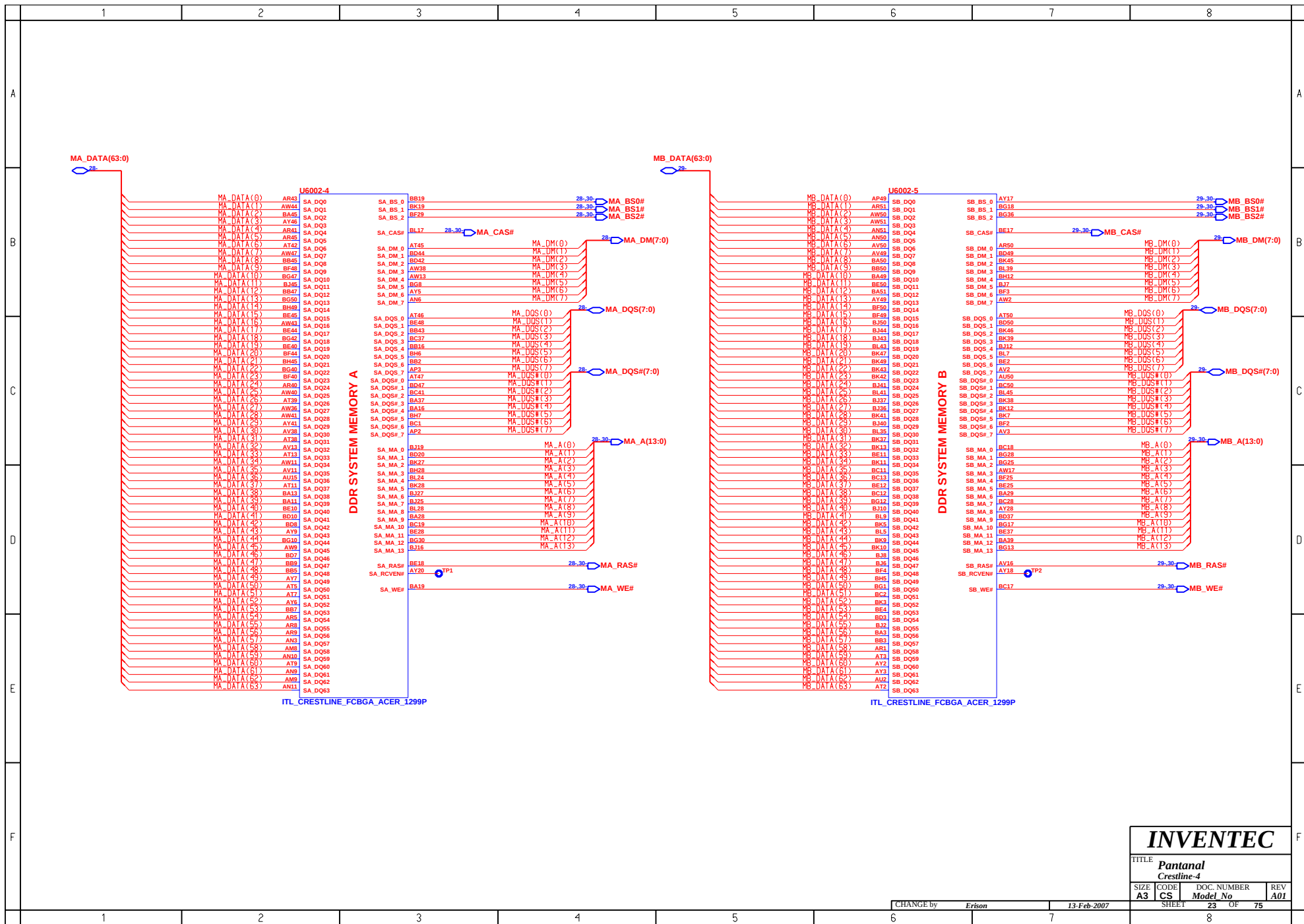


INVENTEC

TITLE			
Pantanal			
Crestline-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Erison* 13-Feb-2007

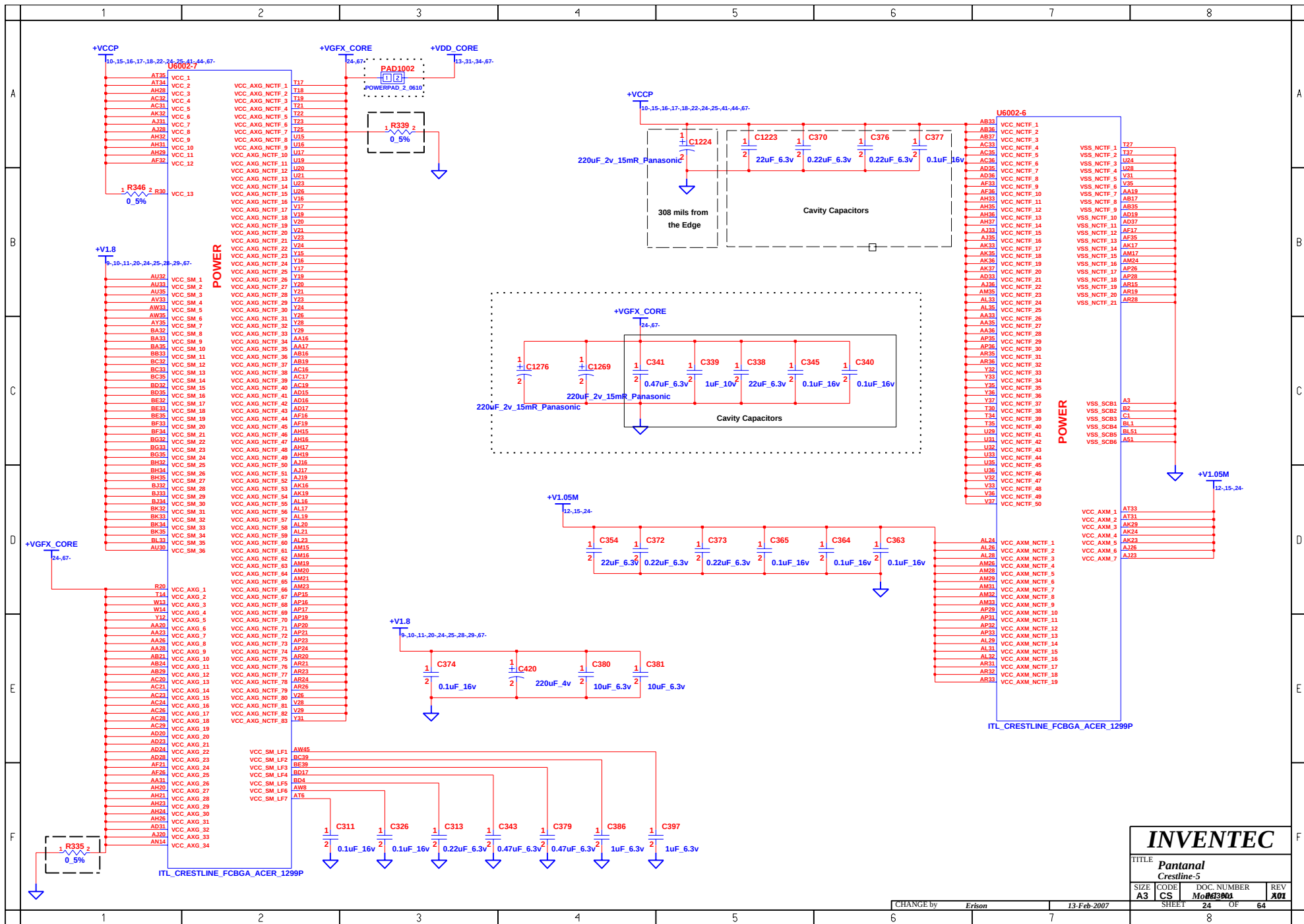
SHEET 22 OF 75



INVENTEC

TITLE Pantanal Crestline-4			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01

CHANGE by Erison		13-Feb-2007	SHEET 23	OF 75
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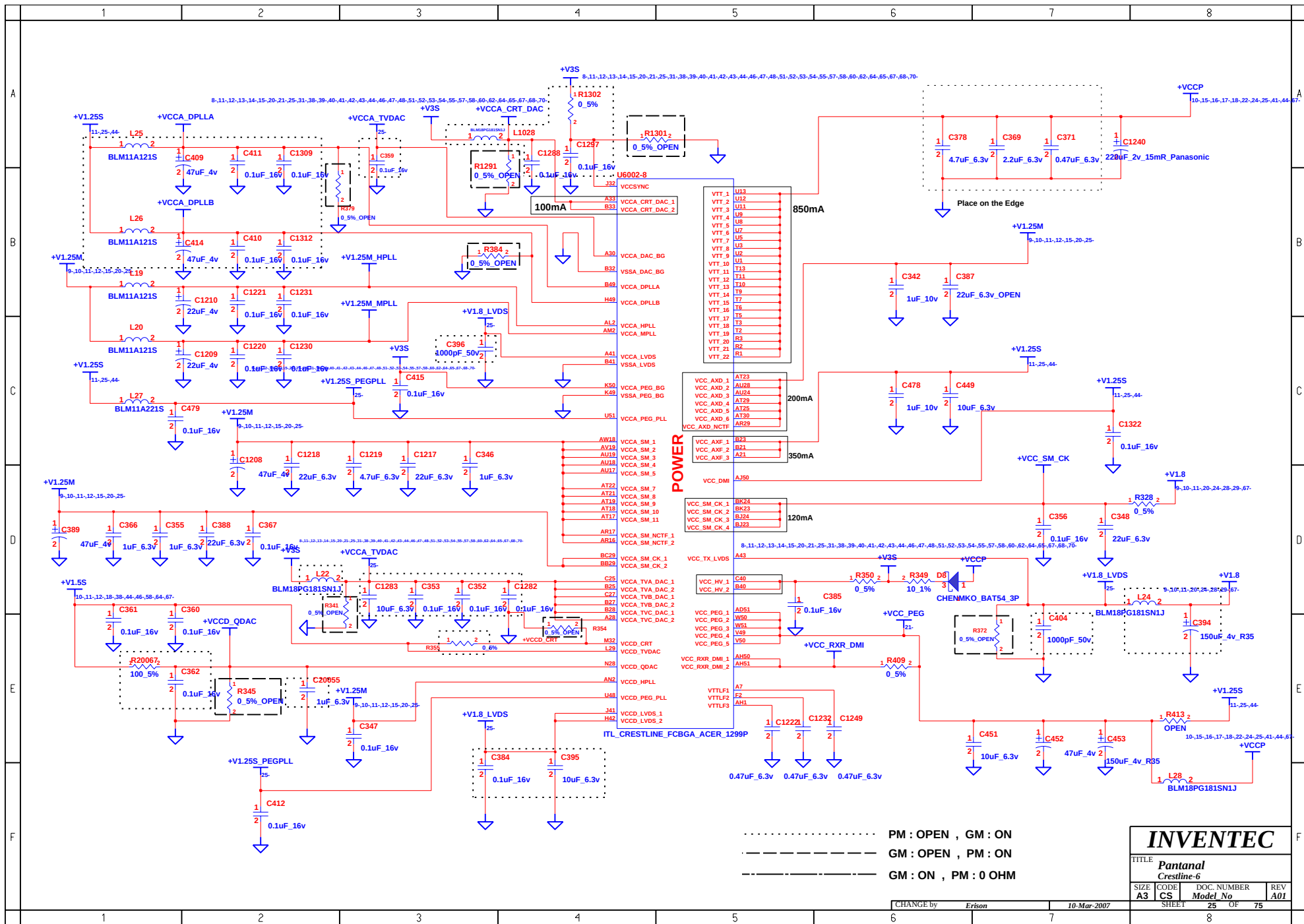


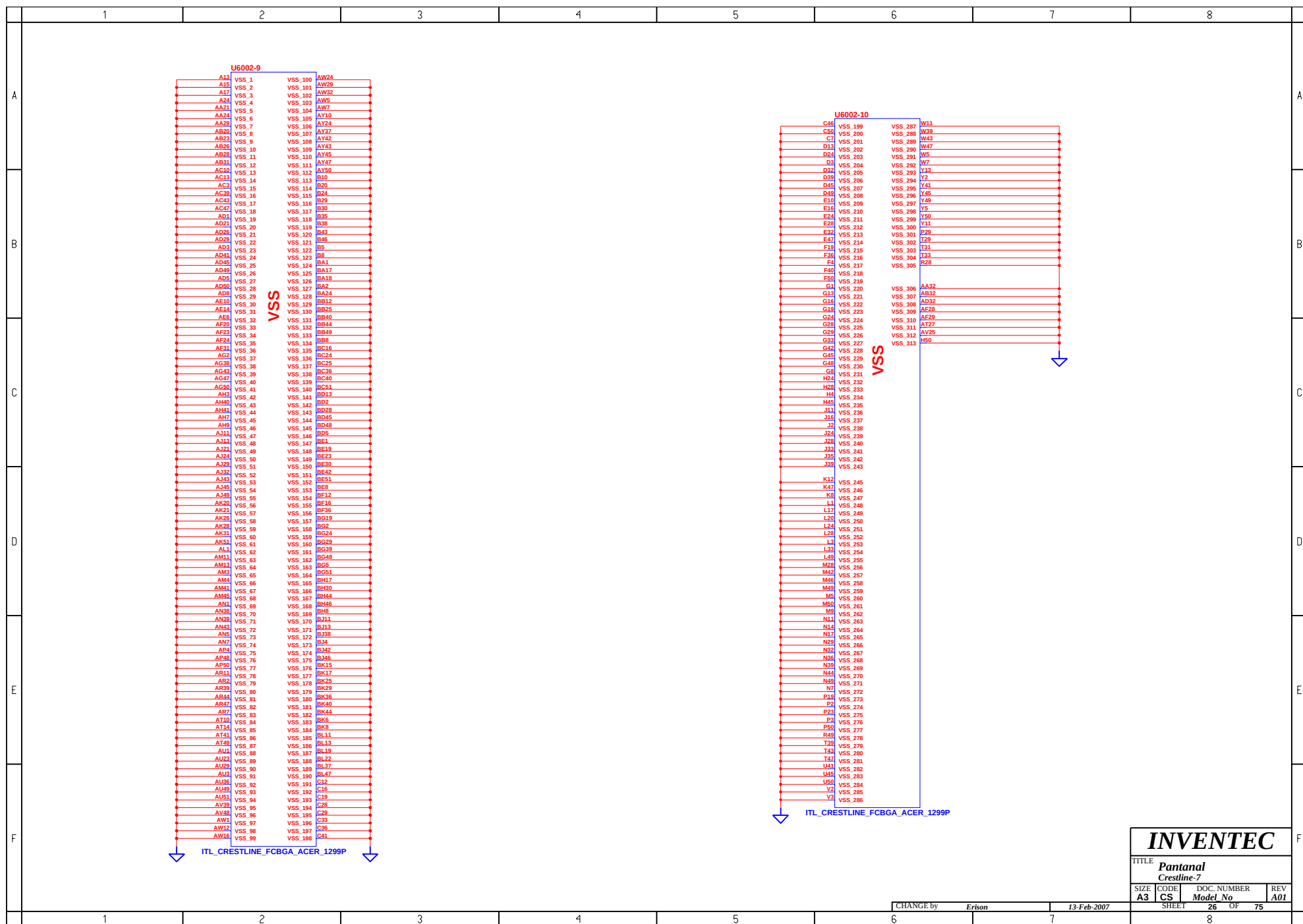
INVENTEC

TITLE Pantanal Crestline-5			
SIZE A3	CODE CS	DOC. NUMBER Mo#013000	REV A01

CHANGE by Erison 13-Feb-2007

SHEET 24 OF 64





	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	

PEG_TXP0

21-27-

C441

1

2

0.1uF 16v

32-

PEG_C_TXP0

PEG_TXP1

21-27-

C447

1

2

0.1uF 16v

32-

PEG_C_TXP1

PEG_TXP2

21-27-

C445

1

2

0.1uF 16v

32-

PEG_C_TXP2

PEG_TXP3

21-27-

C443

1

2

0.1uF 16v

32-

PEG_C_TXP3

PEG_TXP4

21-

C458

1

2

0.1uF 16v

32-

PEG_C_TXP4

PEG_TXP5

21-

C456

1

2

0.1uF 16v

32-

PEG_C_TXP5

PEG_TXP6

21-

C432

1

2

0.1uF 16v

32-

PEG_C_TXP6

PEG_TXP7

21-

C466

1

2

0.1uF 16v

32-

PEG_C_TXP7

PEG_TXP8

21-

C431

1

2

0.1uF 16v

32-

PEG_C_TXP8

PEG_TXP9

21-

C434

1

2

0.1uF 16v

32-

PEG_C_TXP9

PEG_TXP10

21-

C470

1

2

0.1uF 16v

32-

PEG_C_TXP10

PEG_TXP11

21-

C468

1

2

0.1uF 16v

32-

PEG_C_TXP11

PEG_TXP12

21-

C437

1

2

0.1uF 16v

32-

PEG_C_TXP12

PEG_TXP13

21-

C438

1

2

0.1uF 16v

32-

PEG_C_TXP13

PEG_TXP14

21-

C472

1

2

0.1uF 16v

32-

PEG_C_TXP14

PEG_TXP15

21-

C459

1

2

0.1uF 16v

32-

PEG_C_TXP15

PEG_TXN0

21-27-

C442

1

2

0.1uF 16v

32-

PEG_C_TXN0

PEG_TXN1

21-27-

C448

1

2

0.1uF 16v

32-

PEG_C_TXN1

PEG_TXN2

21-27-

C446

1

2

0.1uF 16v

32-

PEG_C_TXN2

PEG_TXN3

21-27-

C444

1

2

0.1uF 16v

32-

PEG_C_TXN3

PEG_TXN4

21-

C457

1

2

0.1uF 16v

32-

PEG_C_TXN4

PEG_TXN5

21-

C455

1

2

0.1uF 16v

32-

PEG_C_TXN5

PEG_TXN6

21-

C433

1

2

0.1uF 16v

32-

PEG_C_TXN6

PEG_TXN7

21-

C465

1

2

0.1uF 16v

32-

PEG_C_TXN7

PEG_TXN8

21-

C430

1

2

0.1uF 16v

32-

PEG_C_TXN8

PEG_TXN9

21-

C435

1

2

0.1uF 16v

32-

PEG_C_TXN9

PEG_TXN10

21-

C469

1

2

0.1uF 16v

32-

PEG_C_TXN10

PEG_TXN11

21-

C467

1

2

0.1uF 16v

32-

PEG_C_TXN11

PEG_TXN12

21-

C436

1

2

0.1uF 16v

32-

PEG_C_TXN12

PEG_TXN13

21-

C439

1

2

0.1uF 16v

32-

PEG_C_TXN13

PEG_TXN14

21-

C471

1

2

0.1uF 16v

32-

PEG_C_TXN14

PEG_TXN15

21-

C460

1

2

0.1uF 16v

32-

PEG_C_TXN15

GM : OPEN

Place to near NB

PEG_TXP0

21-27-

C424

1

2

OPEN

38-

SDVOB_R+

PEG_TXN0

21-27-

C425

1

2

OPEN

38-

SDVOB_R-

PEG_TXP1

21-27-

C422

1

2

OPEN

38-

SDVOB_G+

PEG_TXN1

21-27-

C423

1

2

OPEN

38-

SDVOB_G-

PEG_TXP2

21-27-

C428

1

2

OPEN

38-

SDVOB_B+

PEG_TXN2

21-27-

C429

1

2

OPEN

38-

SDVOB_B-

PEG_TXP3

21-27-

C426

1

2

OPEN

38-

SDVOB_CLK+

PEG_TXN3

21-27-

C427

1

2

OPEN

38-

SDVOB_CLK-

PM : OPEN , GM : ORIGINAL

PEG_C_RXN1

21-32-

1

R394

2

0.5%

OPEN

38-

PEG_C1_RXN1

PEG_C_RXP1

21-32-

1

R393

2

0.5%

OPEN

38-

PEG_C1_RXP1

DVI : INSTALL

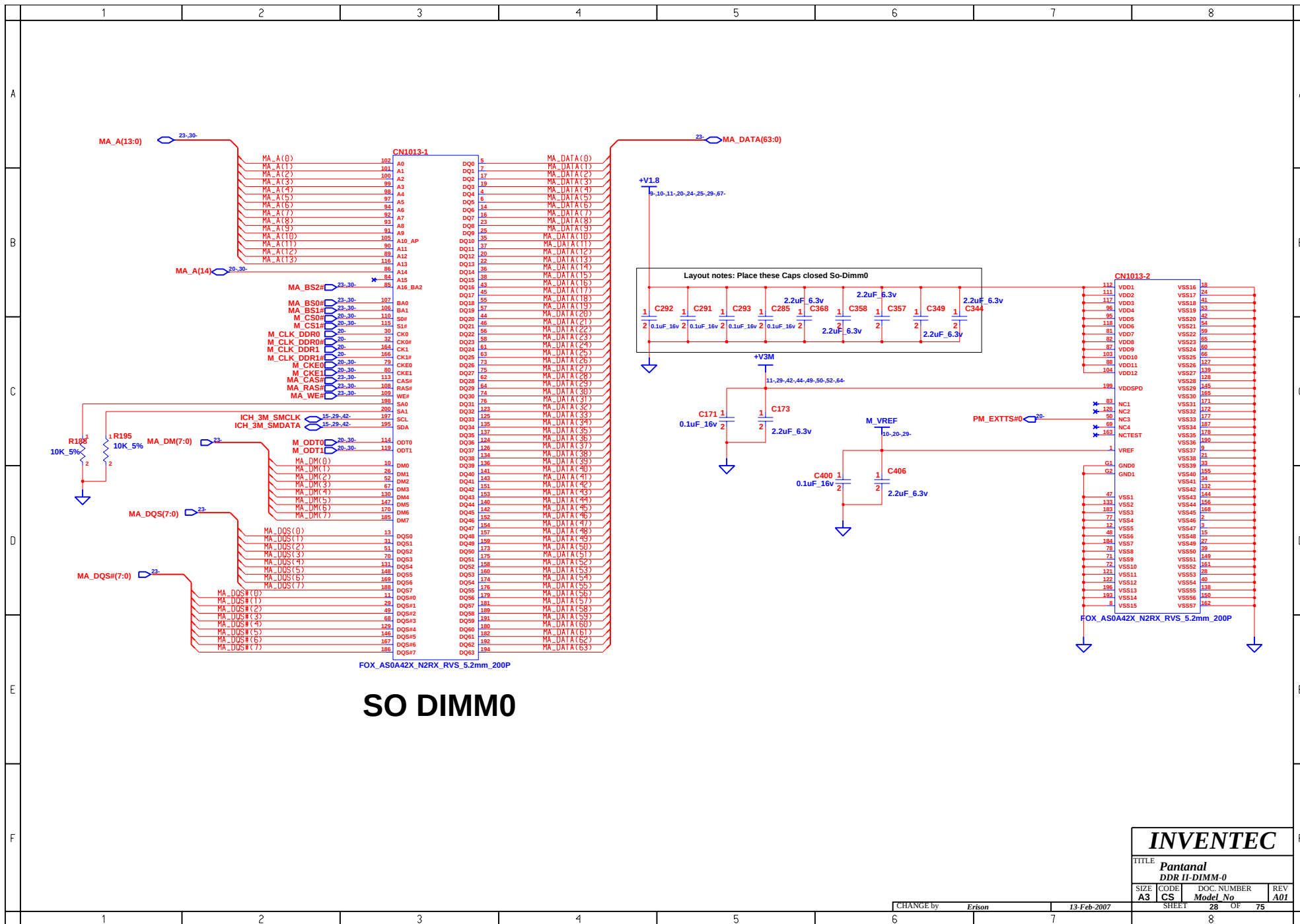
PM : OPEN , GM : SHORT

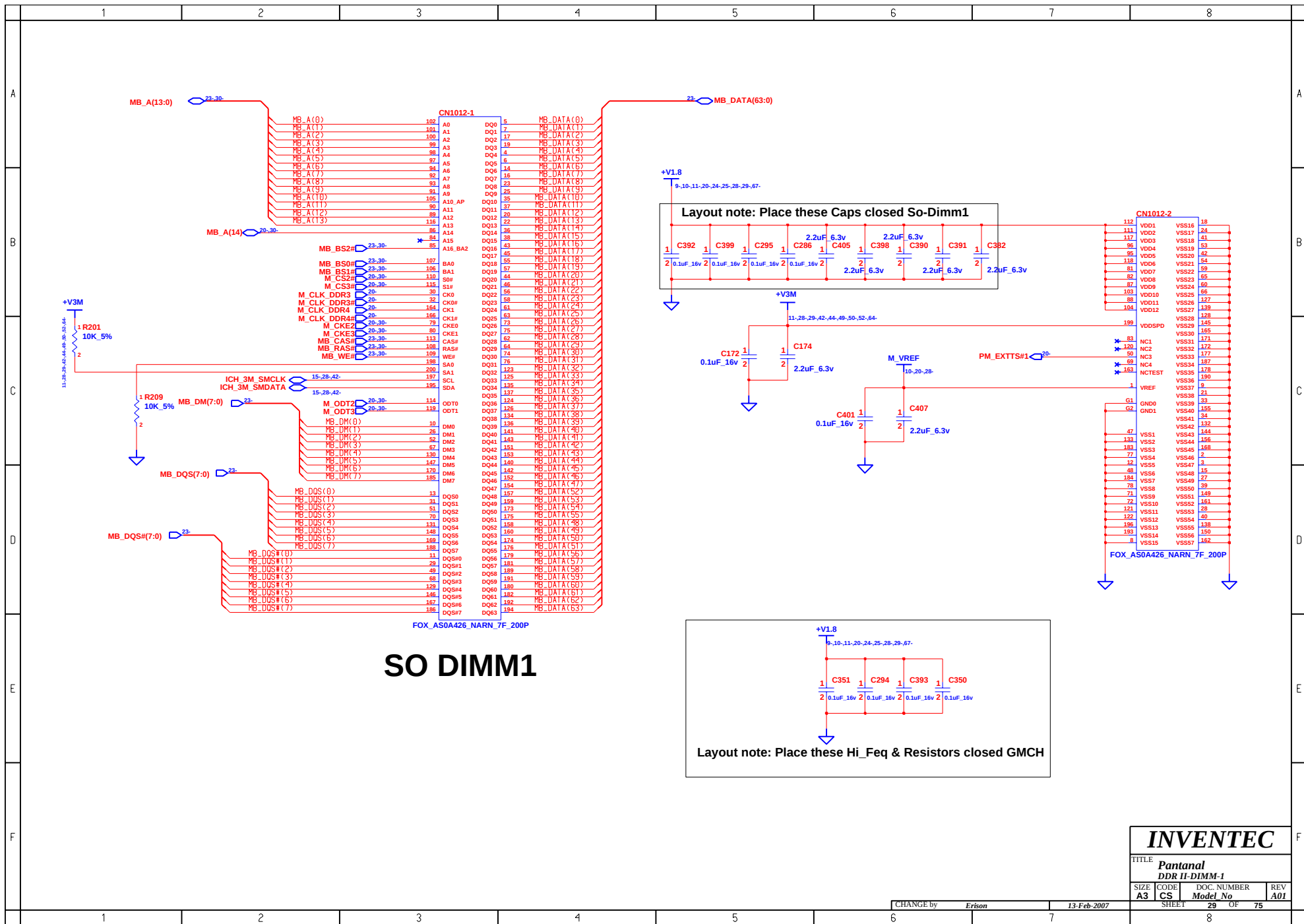
INVENTEC

TITLE			
Pantanal			
PCI-E to SDVO			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 13-Feb-2007

SHEET 27 OF 75





SO DIMM1

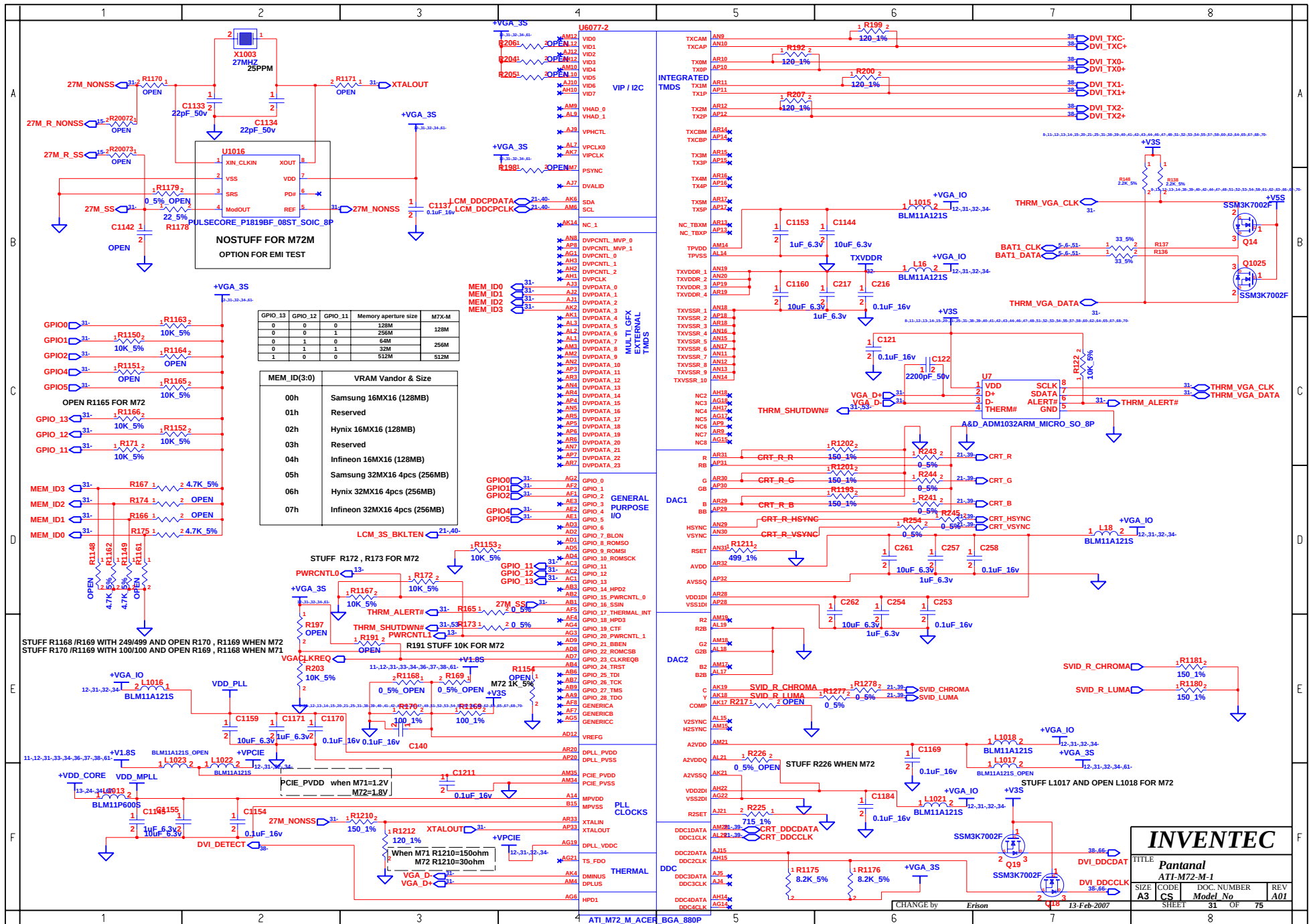
Layout note: Place these Hi_Feq & Resistors closed GMCH

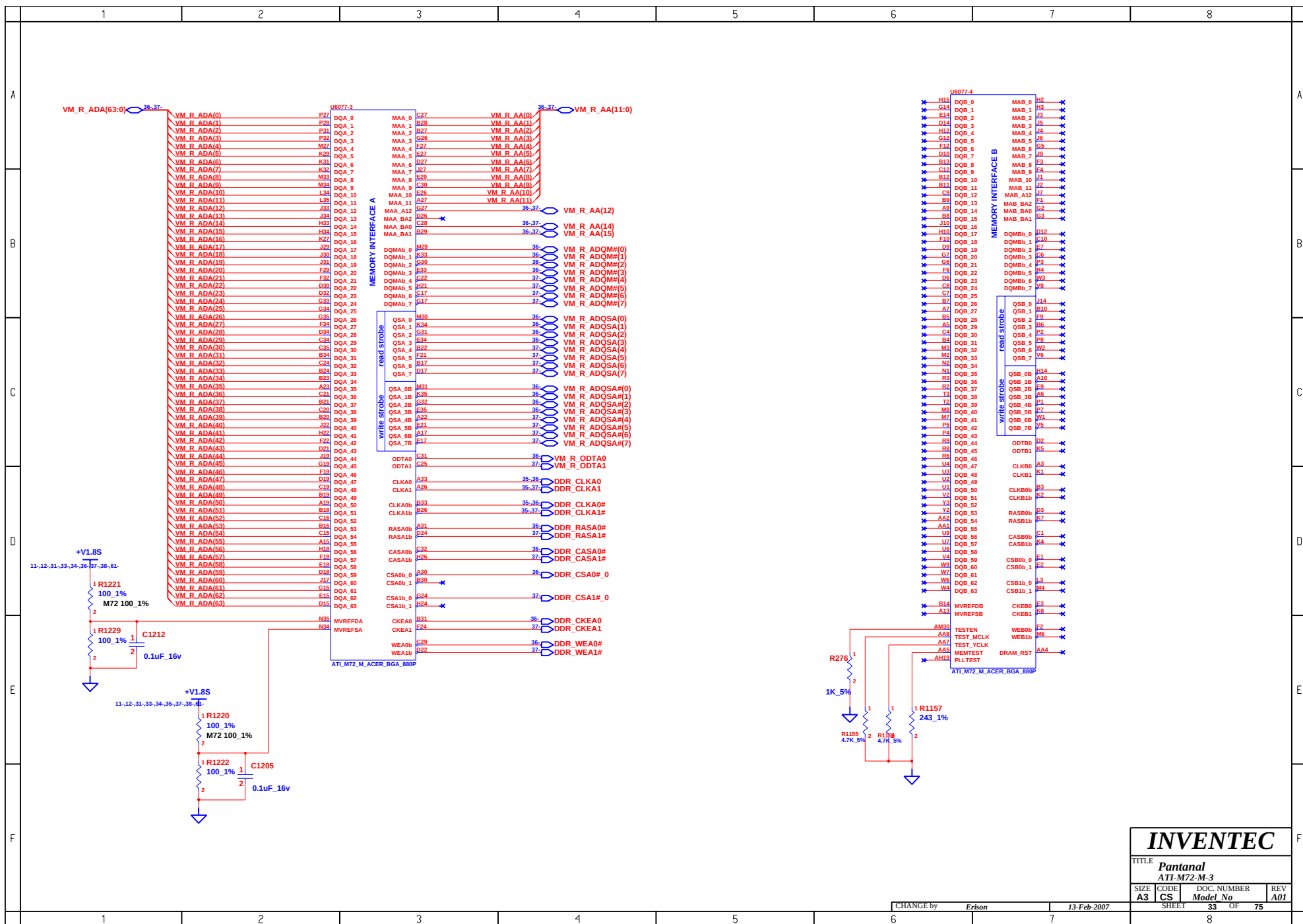
INVENTEC

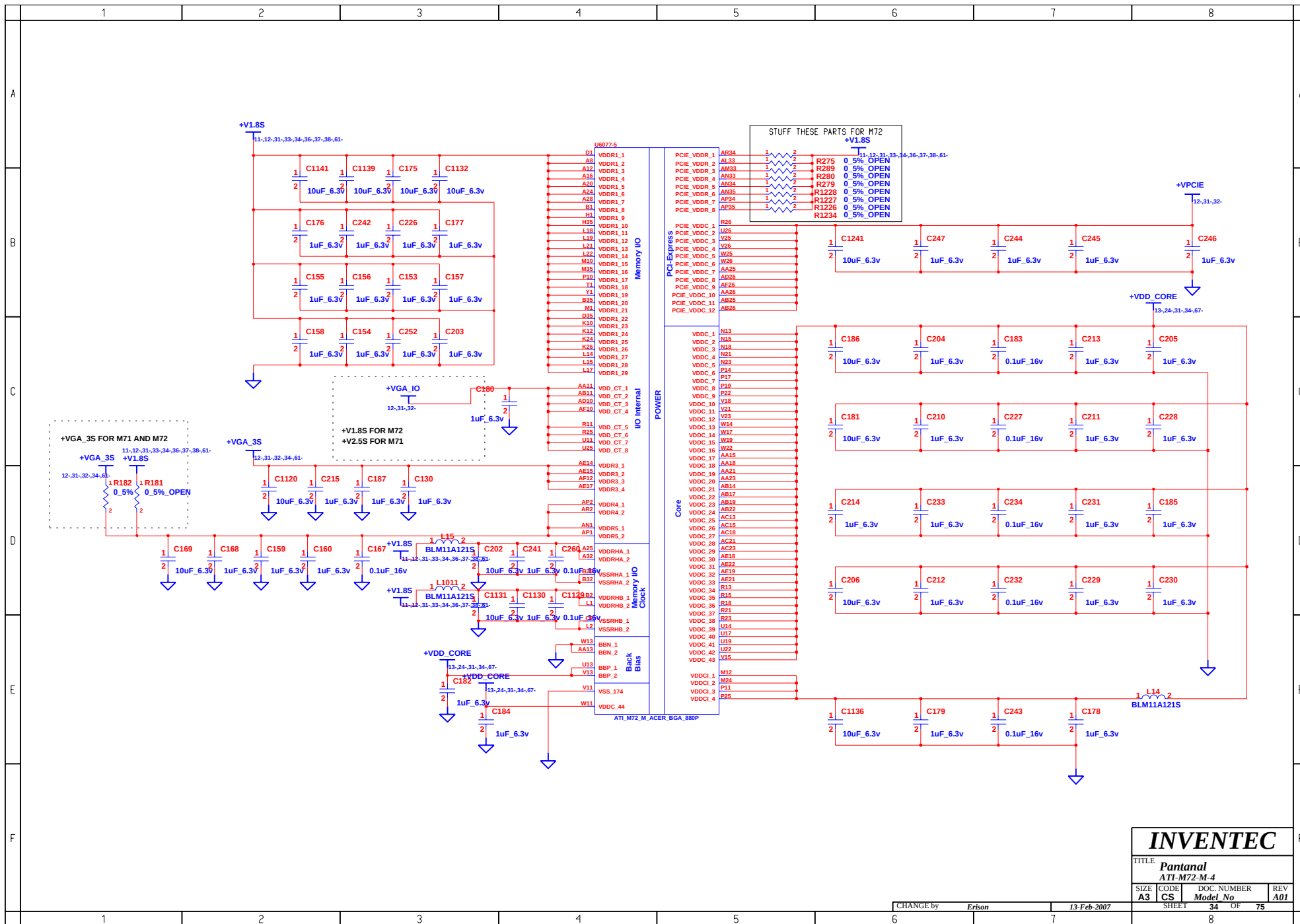
TITLE			
Pantanal			
DDR II-DIMM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 13-Feb-2007

SHEET 29 OF 75



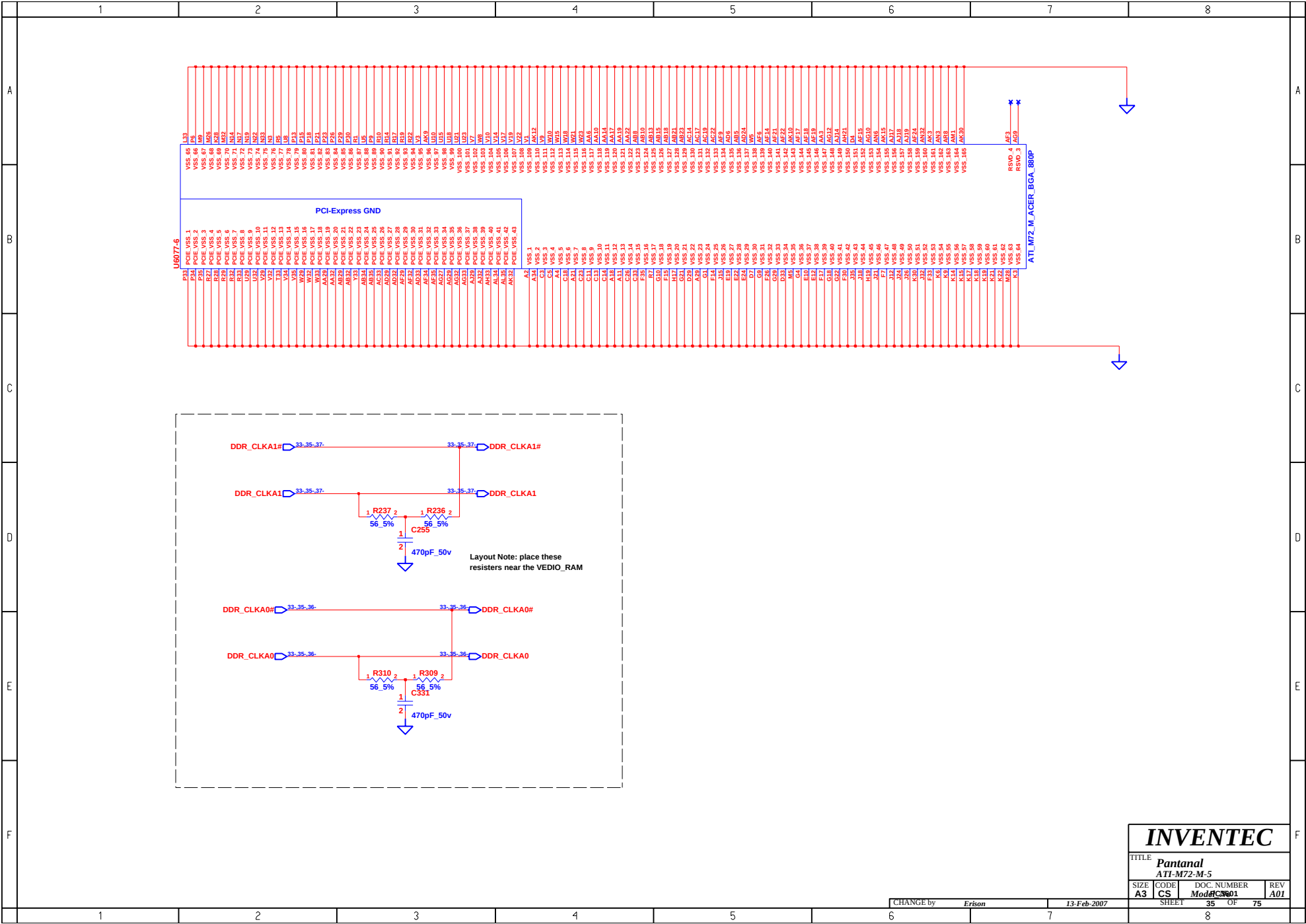




INVENTEC

TITLE
Pantanal
ATI-M72-M-4

CHANGE by **Erison** 13-Feb-2007
SHEET 34 OF 75

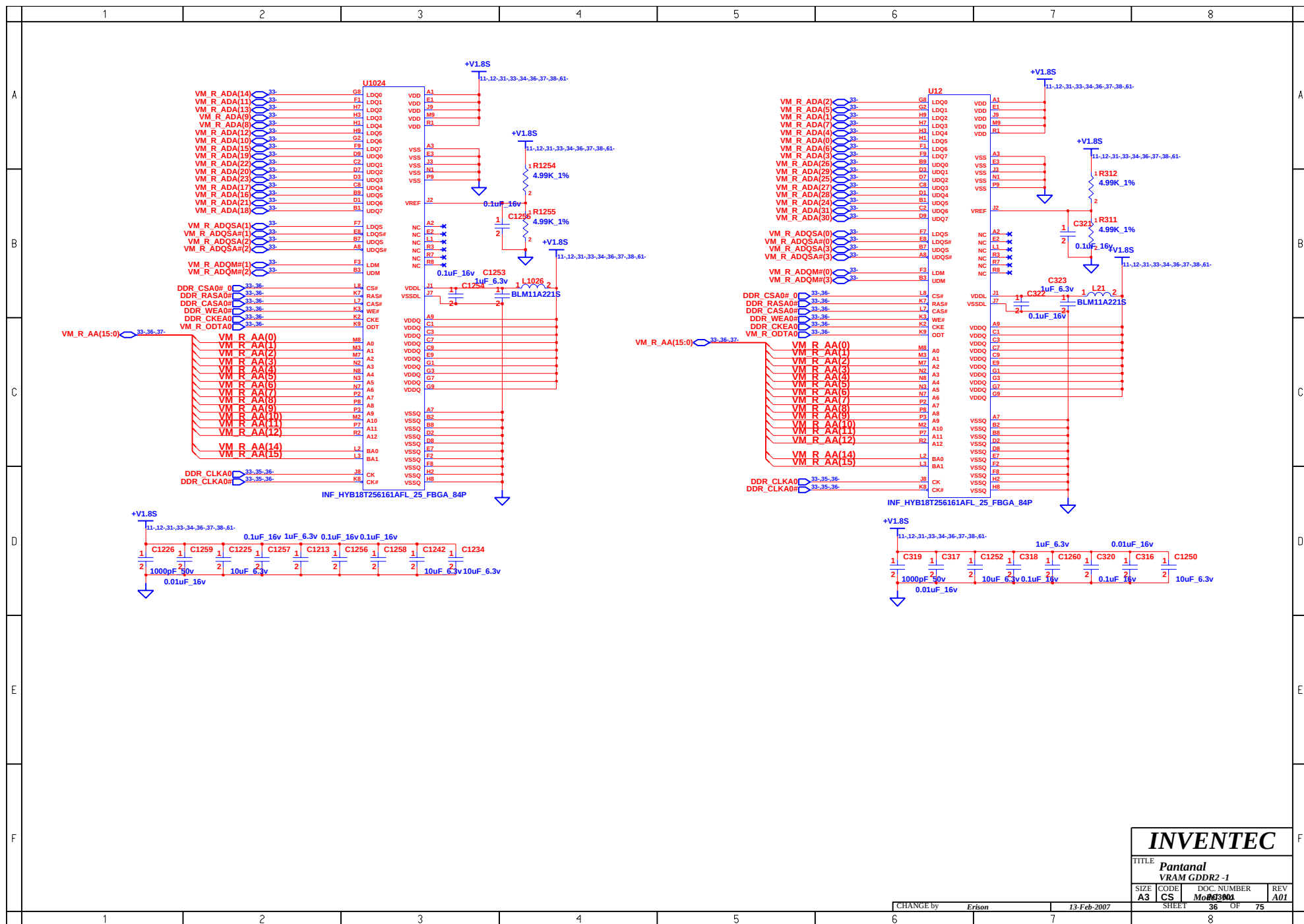


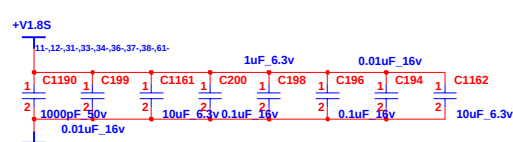
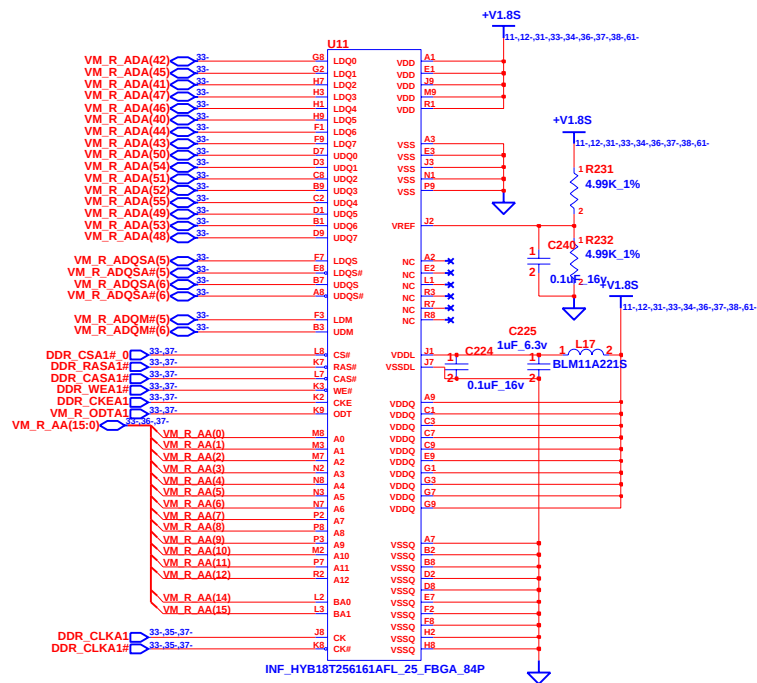
INVENTEC

TITLE			
Pantanal			
ATI-M72-M-5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model#C9001	A01

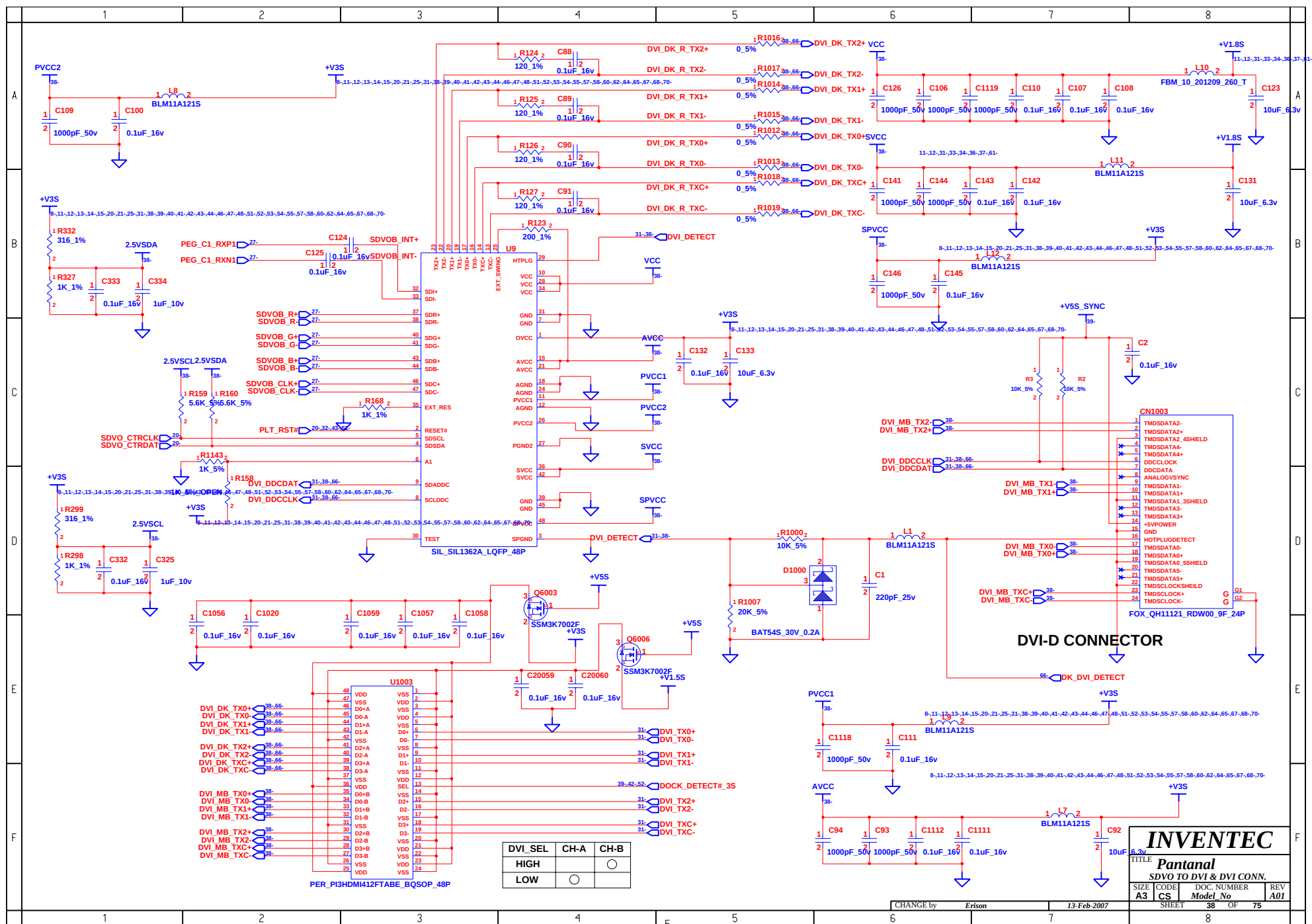
CHANGE by Erison 13-Feb-2007

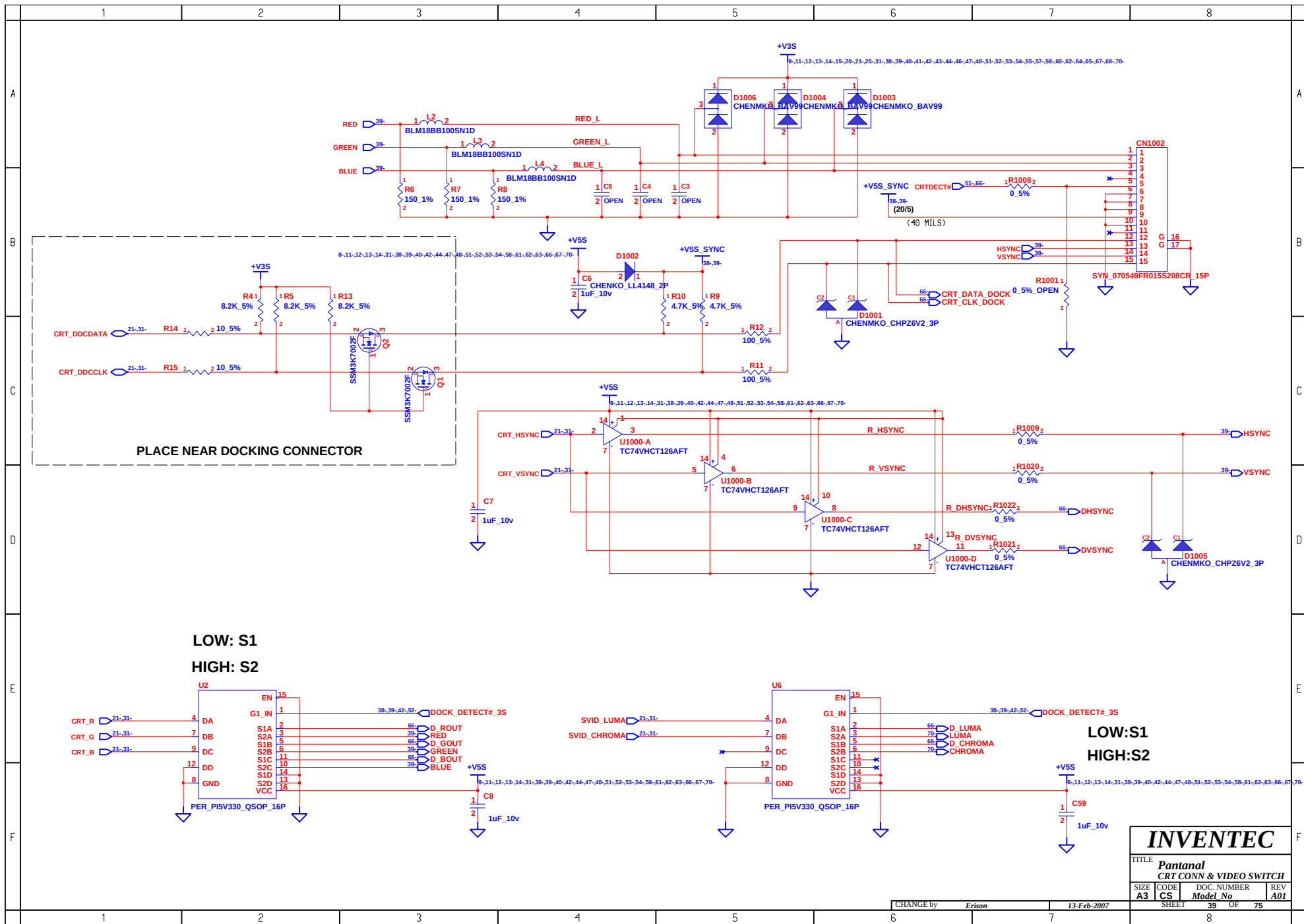
SHEET 35 OF 75

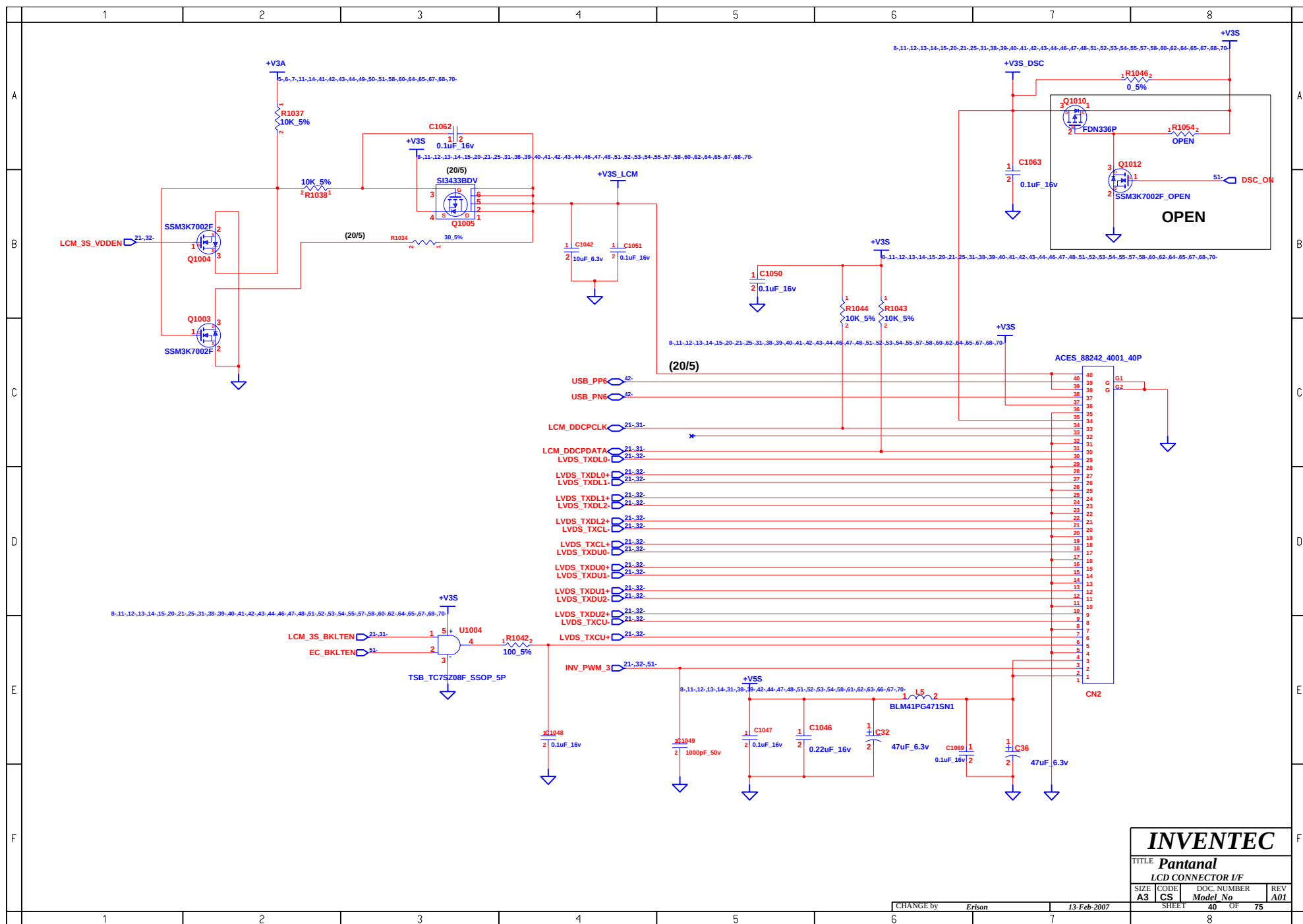


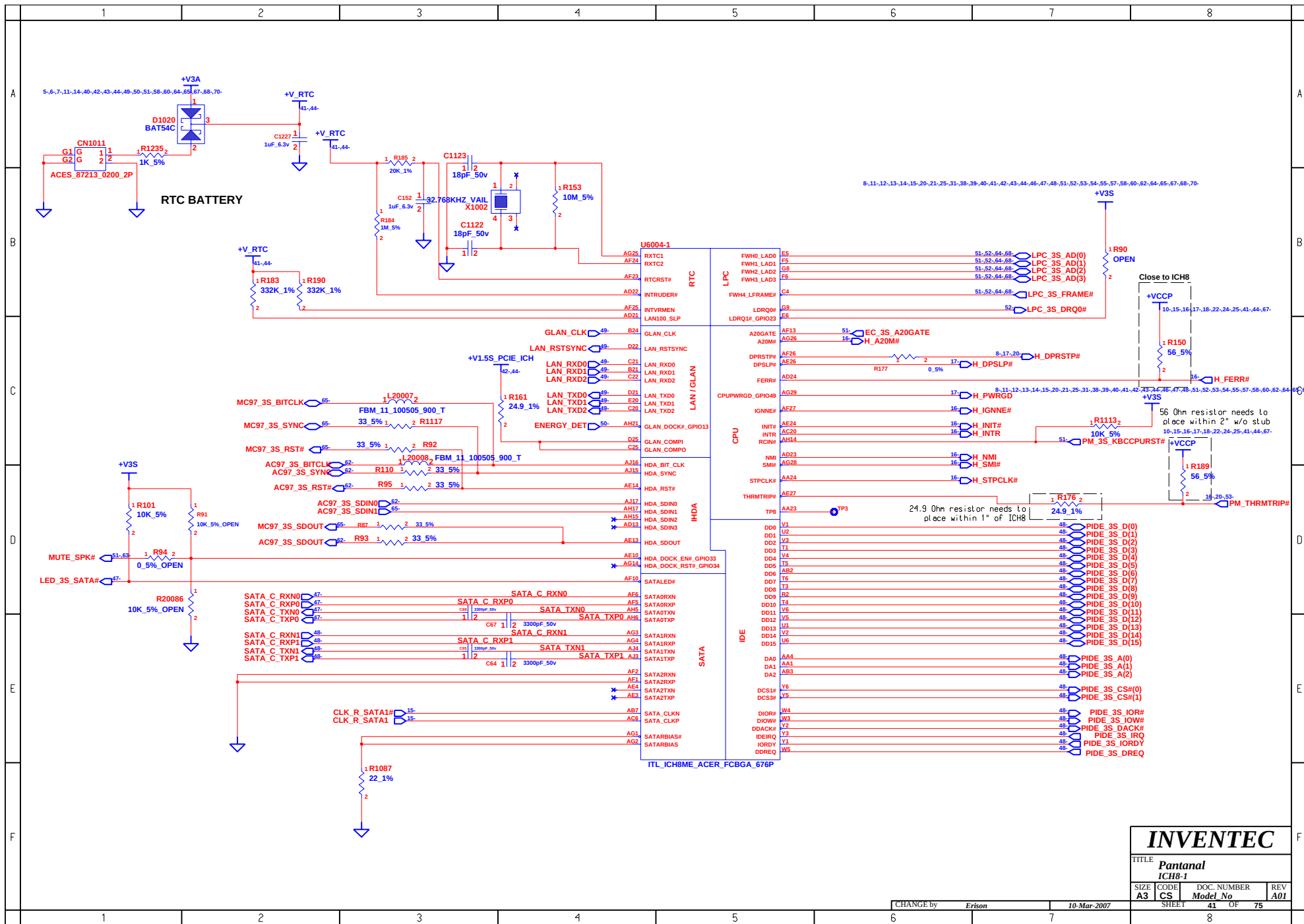


TITLE			
<i>Pantanal</i> <i>VRAM GDDR2-2</i>			
SIZE	CODE	DOC. NUMBER	REV
<i>A3</i>	<i>CS</i>	<i>Model No</i>	<i>A01</i>







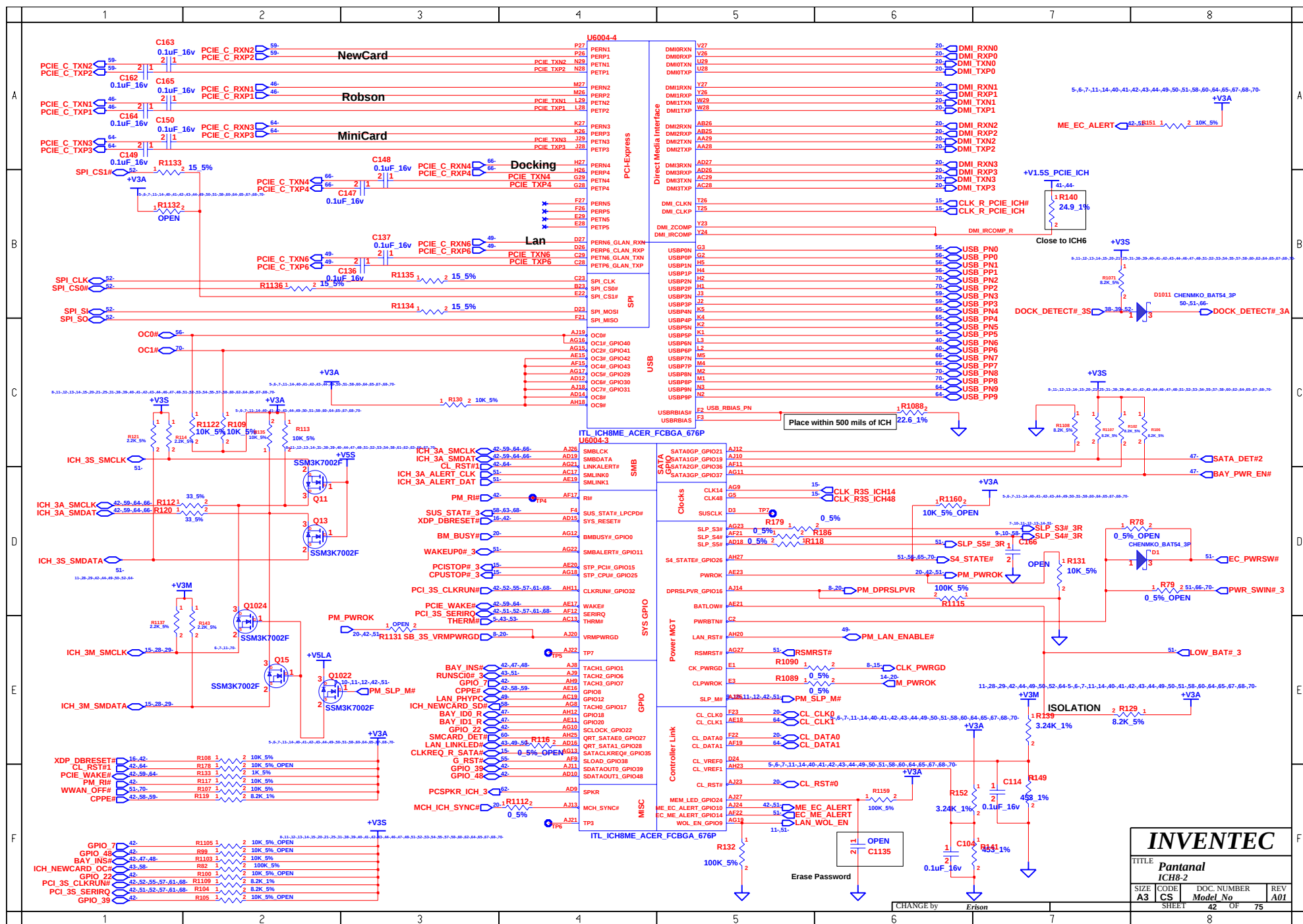


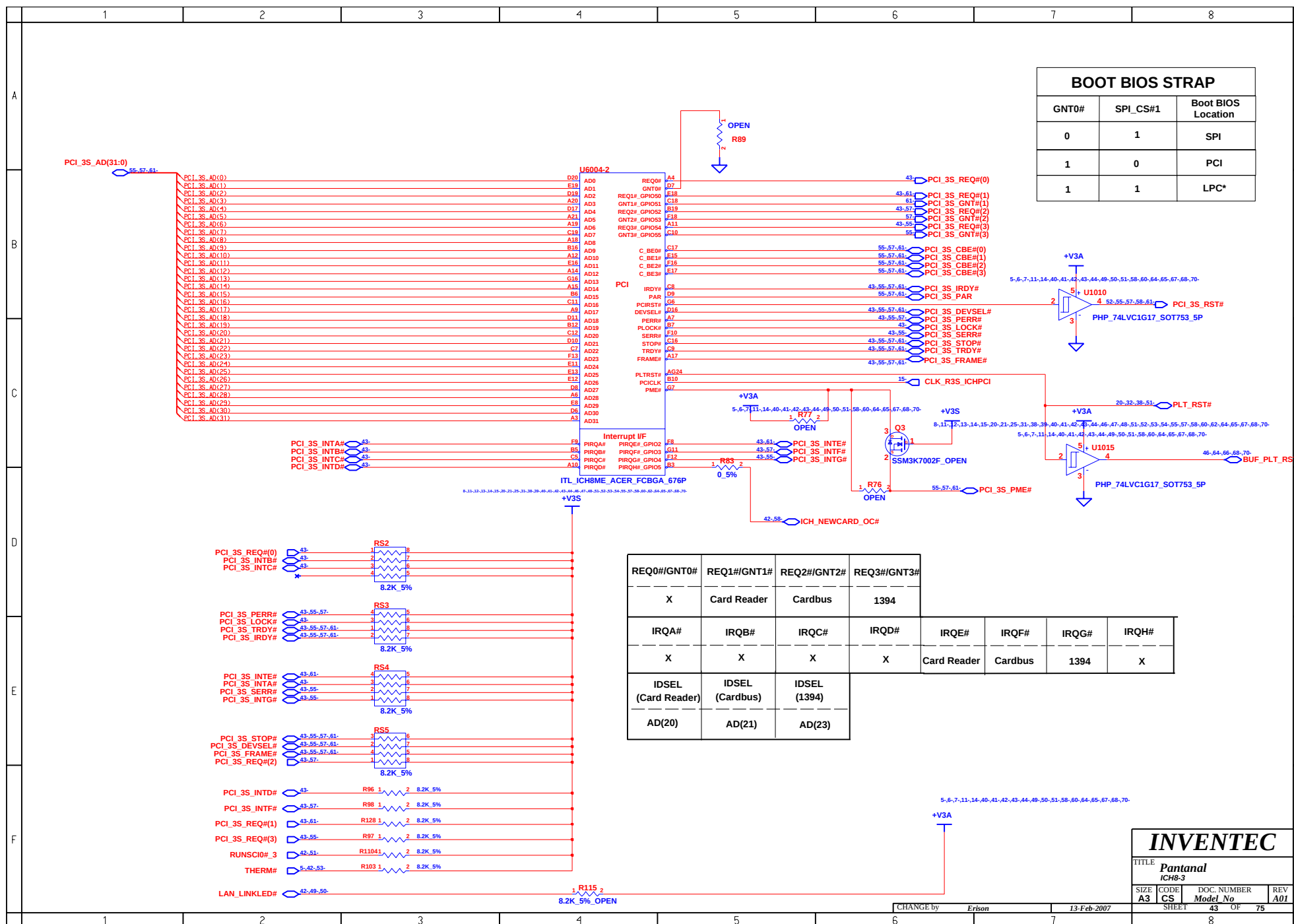
INVENTEC

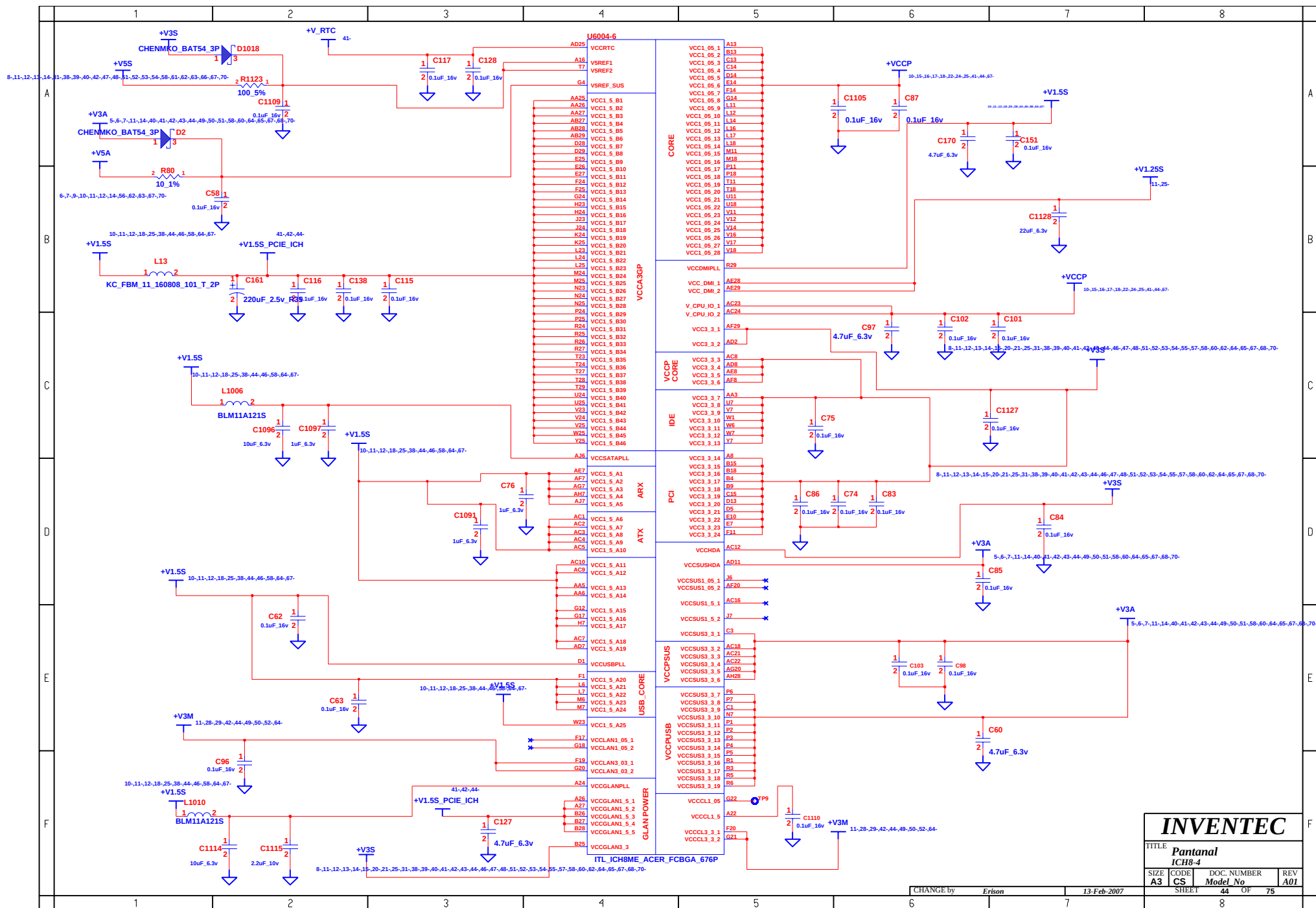
TITLE			
Pantanal			
ICH8-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 10-Mar-2007

SHEET 41 OF 75







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

UG004-5

A23 VSS001 VSS099 K7
AA1 VSS002 VSS100 L1
AA2 VSS003 VSS101 L13
AA7 VSS004 VSS102 L15
AA5 VSS005 VSS103 L26
AB1 VSS006 VSS104 L27
AB24 VSS007 VSS105 L4
AC11 VSS008 VSS106 L5
AC14 VSS009 VSS107 M12
AC25 VSS010 VSS108 M13
AC26 VSS011 VSS109 M14
AC27 VSS012 VSS110 M15
AD17 VSS013 VSS111 M16
AD20 VSS014 VSS112 M17
AD28 VSS015 VSS113 M23
AD29 VSS016 VSS114 M28
AD1 VSS017 VSS115 M29
AD4 VSS018 VSS116 M3
AD6 VSS019 VSS117 N1
AE1 VSS020 VSS118 N11
AE12 VSS021 VSS119 N12
AE2 VSS022 VSS120 N13
AE22 VSS023 VSS121 N14
AD1 VSS024 VSS122 N15
AE26 VSS025 VSS123 N16
AE5 VSS026 VSS124 N17
AE6 VSS027 VSS125 N18
AE9 VSS028 VSS126 N29
AF14 VSS029 VSS127 N27
AF16 VSS030 VSS128 N4
AF18 VSS031 VSS129 N5
AF3 VSS032 VSS130 N6
AF4 VSS033 VSS131 P12
AG5 VSS034 VSS132 P13
AG6 VSS035 VSS133 P14
AH10 VSS036 VSS134 P15
AH13 VSS037 VSS135 P16
AH16 VSS038 VSS136 P17
AH19 VSS039 VSS137 P23
AH2 VSS040 VSS138 P28
AF28 VSS041 VSS139 P29
AH22 VSS042 VSS140 R11
AH24 VSS043 VSS141 R12
AH26 VSS044 VSS142 R13
AH3 VSS045 VSS143 R14
AH4 VSS046 VSS144 R15
AH6 VSS047 VSS145 R16
AJ5 VSS048 VSS146 R17
B11 VSS049 VSS147 R18
B14 VSS050 VSS148 R28
B17 VSS051 VSS149 R4
B2 VSS052 VSS150 T12
B20 VSS053 VSS151 T13
B22 VSS054 VSS152 T14
B6 VSS055 VSS153 T15
C24 VSS056 VSS154 T16
C26 VSS057 VSS155 T17
C27 VSS058 VSS156 T2
C6 VSS059 VSS157 U12
D12 VSS060 VSS158 U13
D15 VSS061 VSS159 U14
D18 VSS062 VSS160 U15
D2 VSS063 VSS161 U16
D4 VSS064 VSS162 U17
E21 VSS065 VSS163 U23
E24 VSS066 VSS164 U26
F4 VSS067 VSS165 U27
E9 VSS068 VSS166 U3
F15 VSS069 VSS167 U5
E24 VSS070 VSS168 V13
F28 VSS071 VSS169 V15
F29 VSS072 VSS170 V28
G1 VSS073 VSS171 V29
G1 VSS074 VSS172 W2
E2 VSS075 VSS173 W26
G10 VSS076 VSS174 W27
G13 VSS077 VSS175 Y28
G18 VSS078 VSS176 Y29
G23 VSS079 VSS177 Y4
G25 VSS080 VSS178 AB4
G26 VSS081 VSS179 AB23
G27 VSS082 VSS180 AB5
H25 VSS083 VSS181 AB6
H28 VSS084 VSS182 AD5
H29 VSS085 VSS183 JA
H1 VSS086 VSS184 W24
H6 VSS087 VSS NCTF_01 A1
J1 VSS088 VSS NCTF_02 A2
J26 VSS089 VSS NCTF_03 A28
J26 VSS090 VSS NCTF_04 A29
J27 VSS091 VSS NCTF_05 AH1
J4 VSS092 VSS NCTF_06 AH29
J5 VSS093 VSS NCTF_07 A31
K23 VSS094 VSS NCTF_08 A32
K28 VSS095 VSS NCTF_09 A328
K29 VSS096 VSS NCTF_010 A329
K3 VSS097 VSS NCTF_011 B1
K8 VSS098 VSS NCTF_012 B29

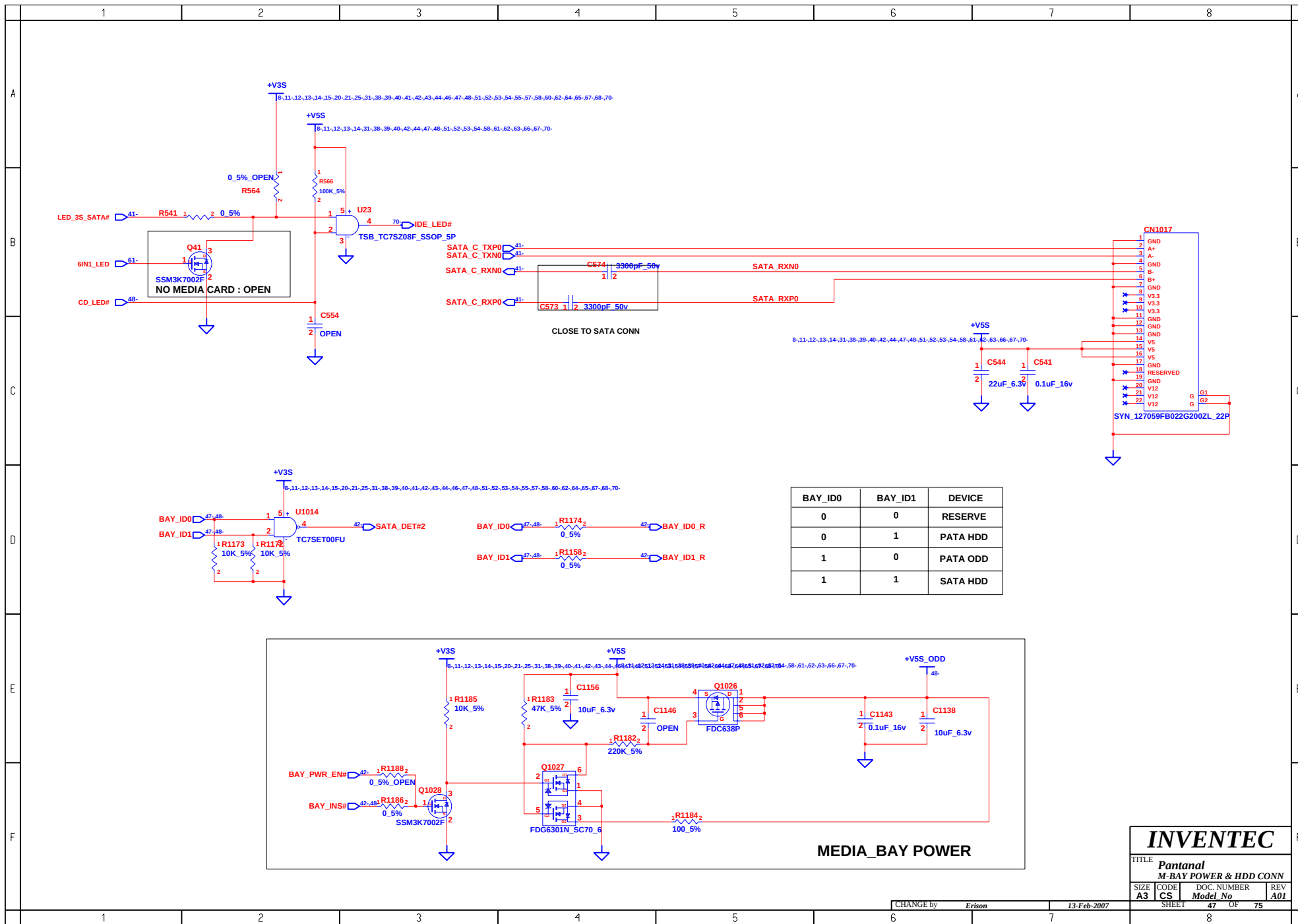
ITL_ICH8ME_ACER_FCBGA_676P



INVENTEC

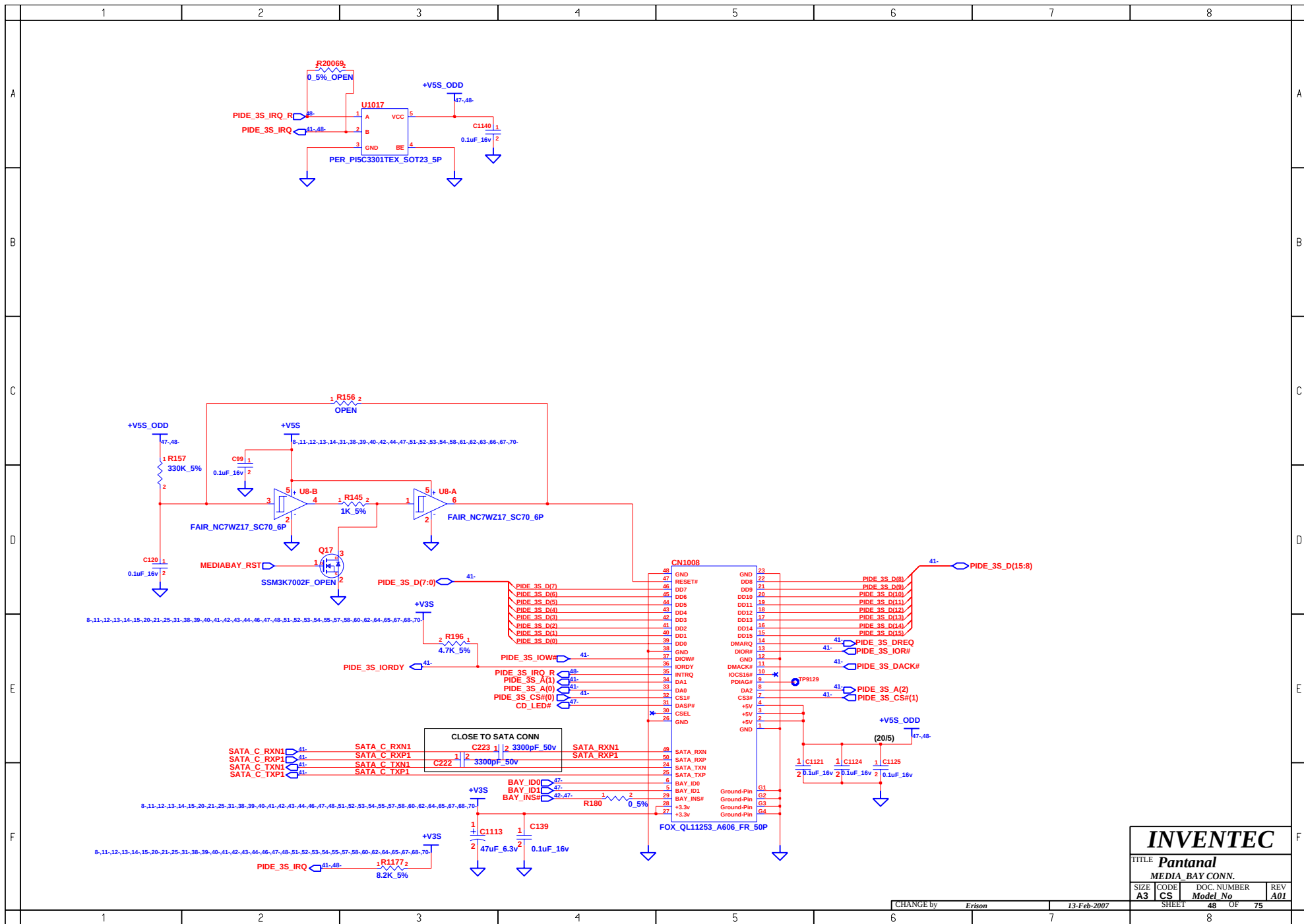
TITLE Pantanal ICH8-5			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
SHEET 45		OF 75	

CHANGE by Erison 13-Feb-2007



INVENTEC			
TITLE			
Pantanal			
M-BAY POWER & HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01
SHEET		47	OF 75

CHANGE by Erison 13-Feb-2007

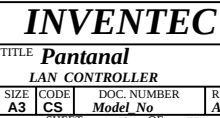


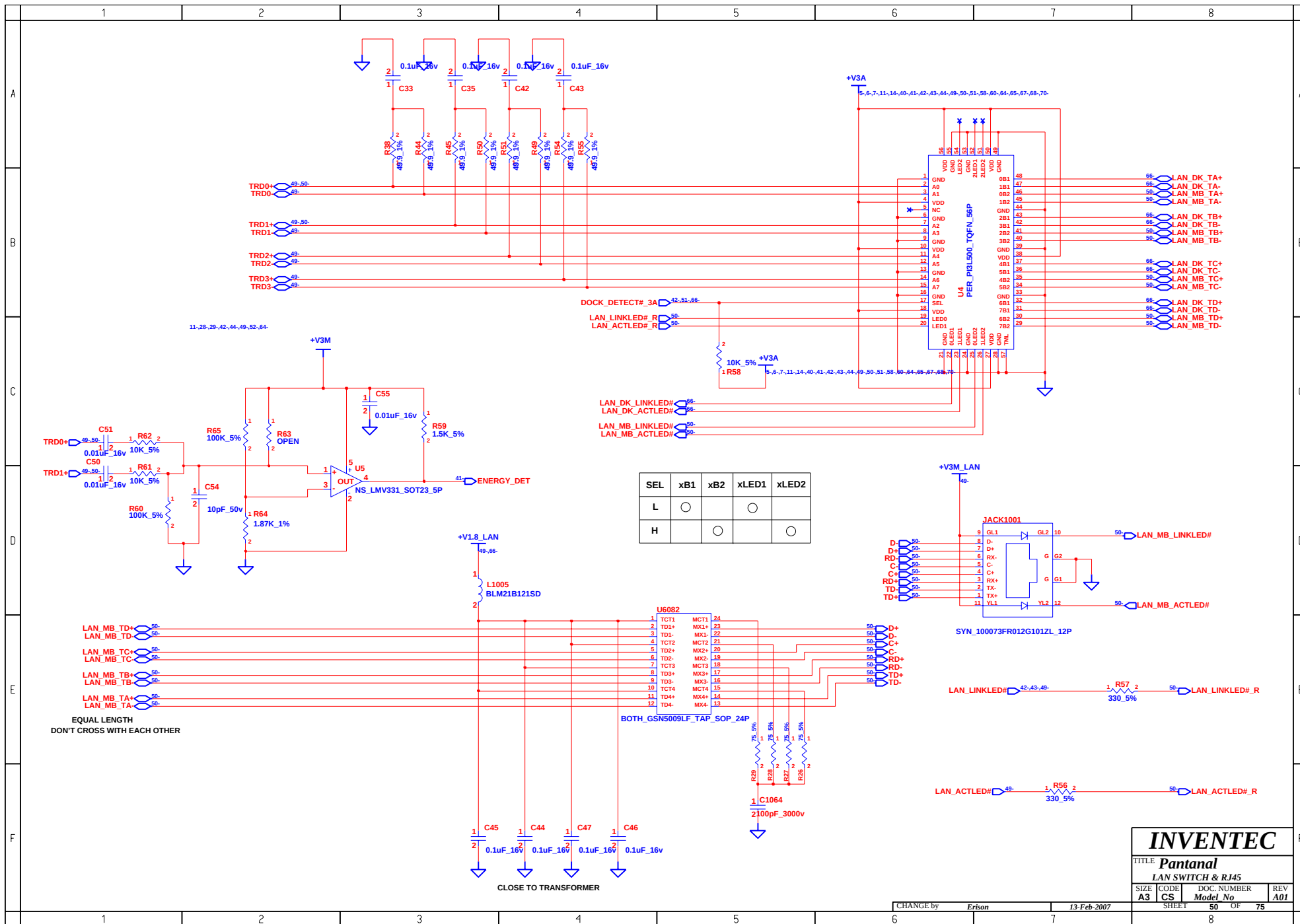
INVENTEC

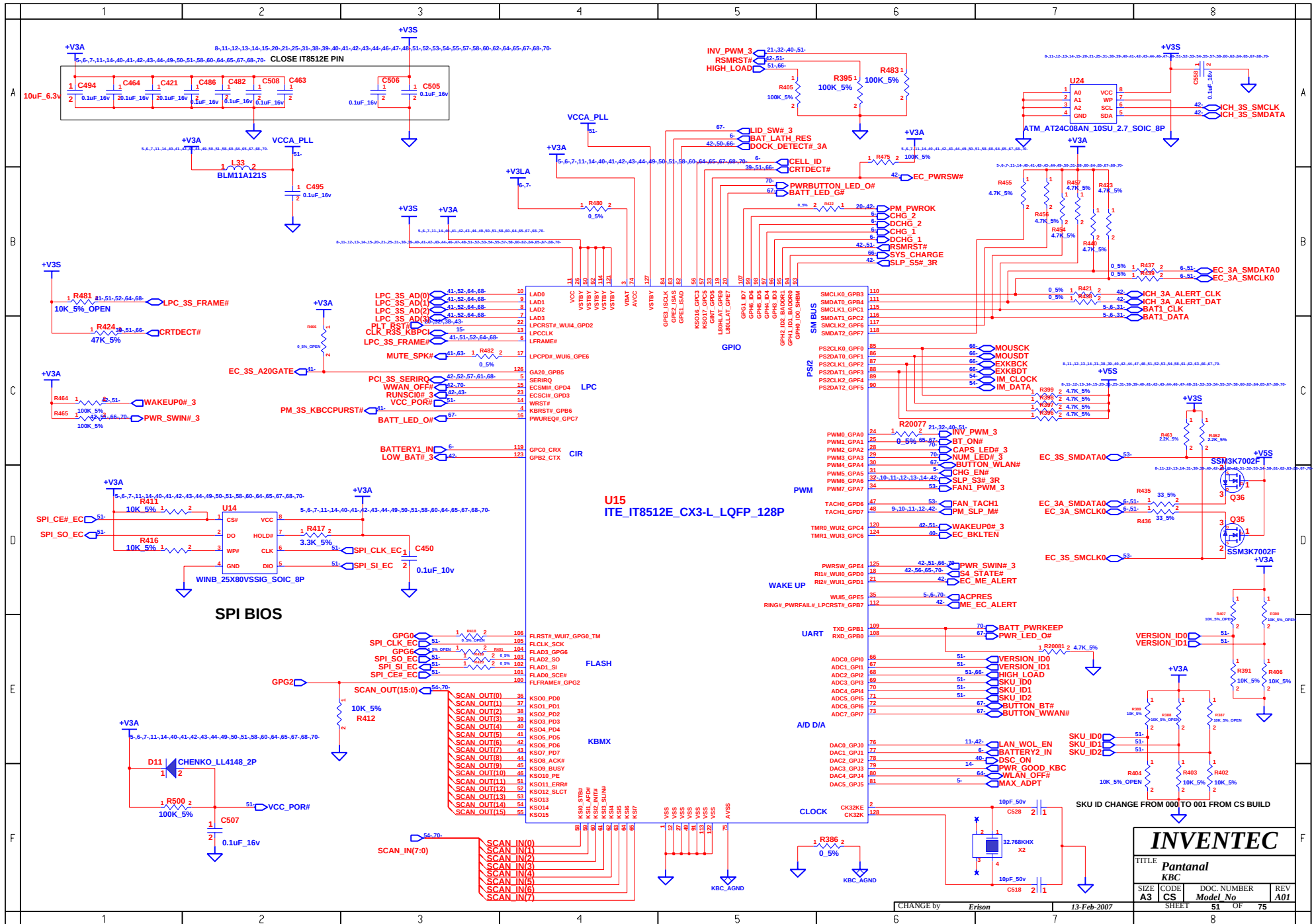
TITLE Pantanal			
MEDIA_BAY CONN.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

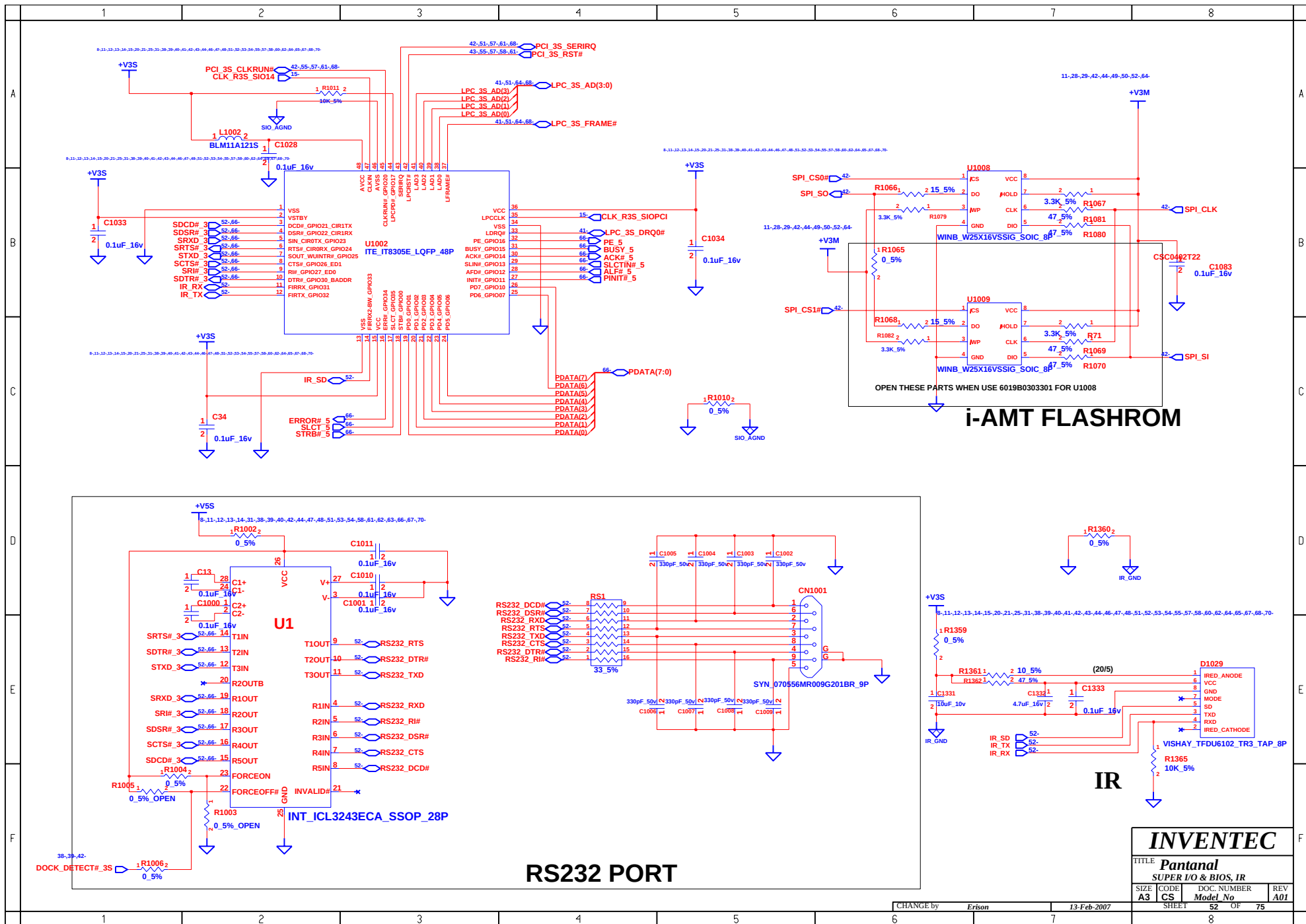
CHANGE by *Erison* 13-Feb-2007

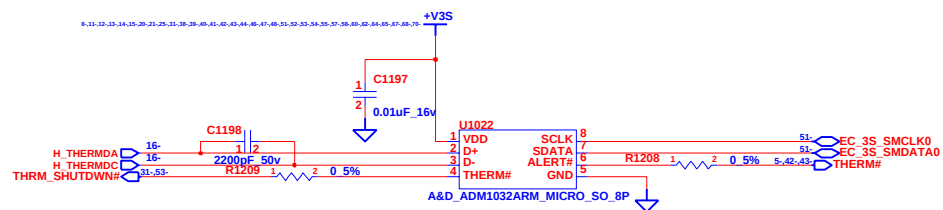
SHEET 48 OF 75

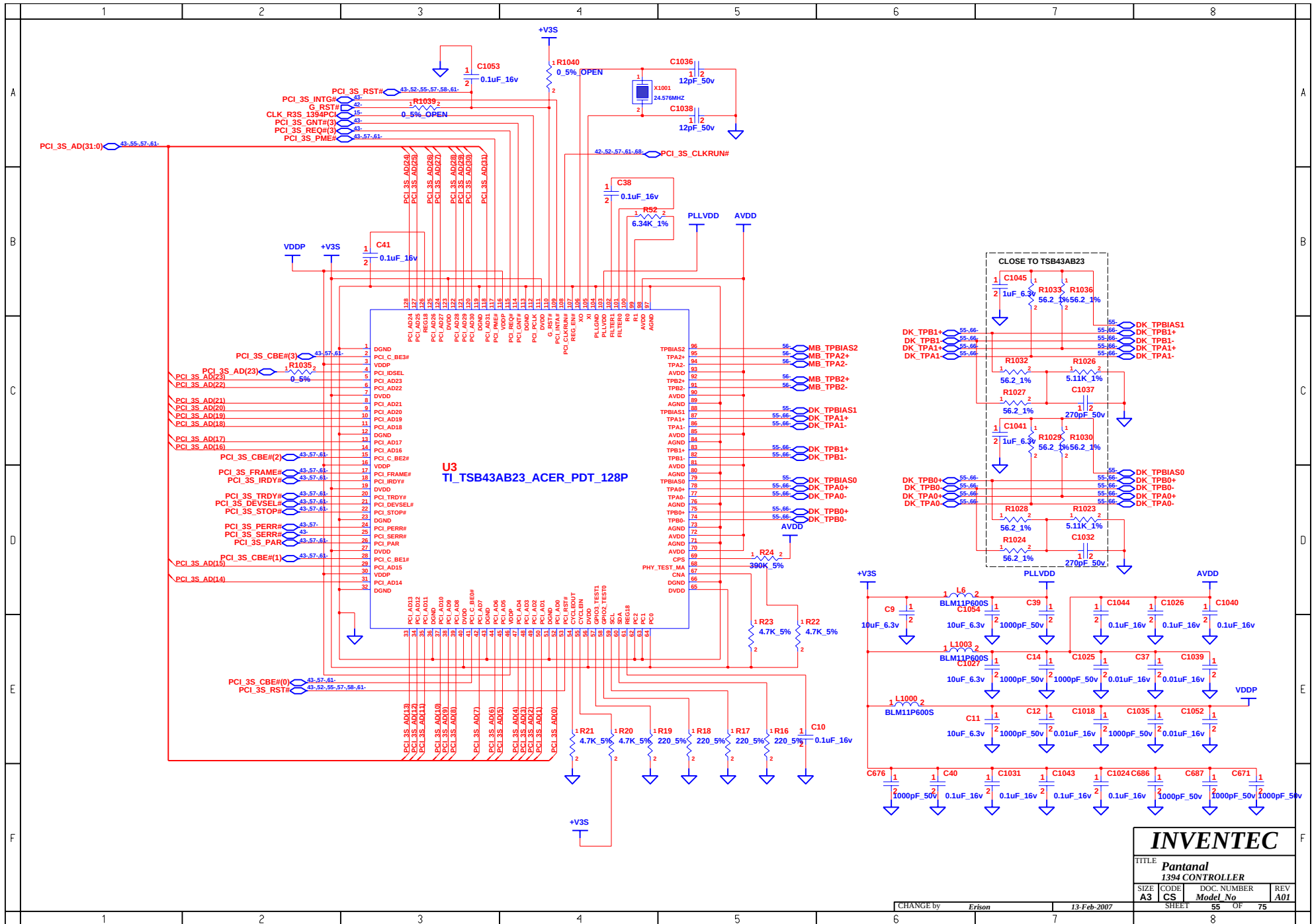


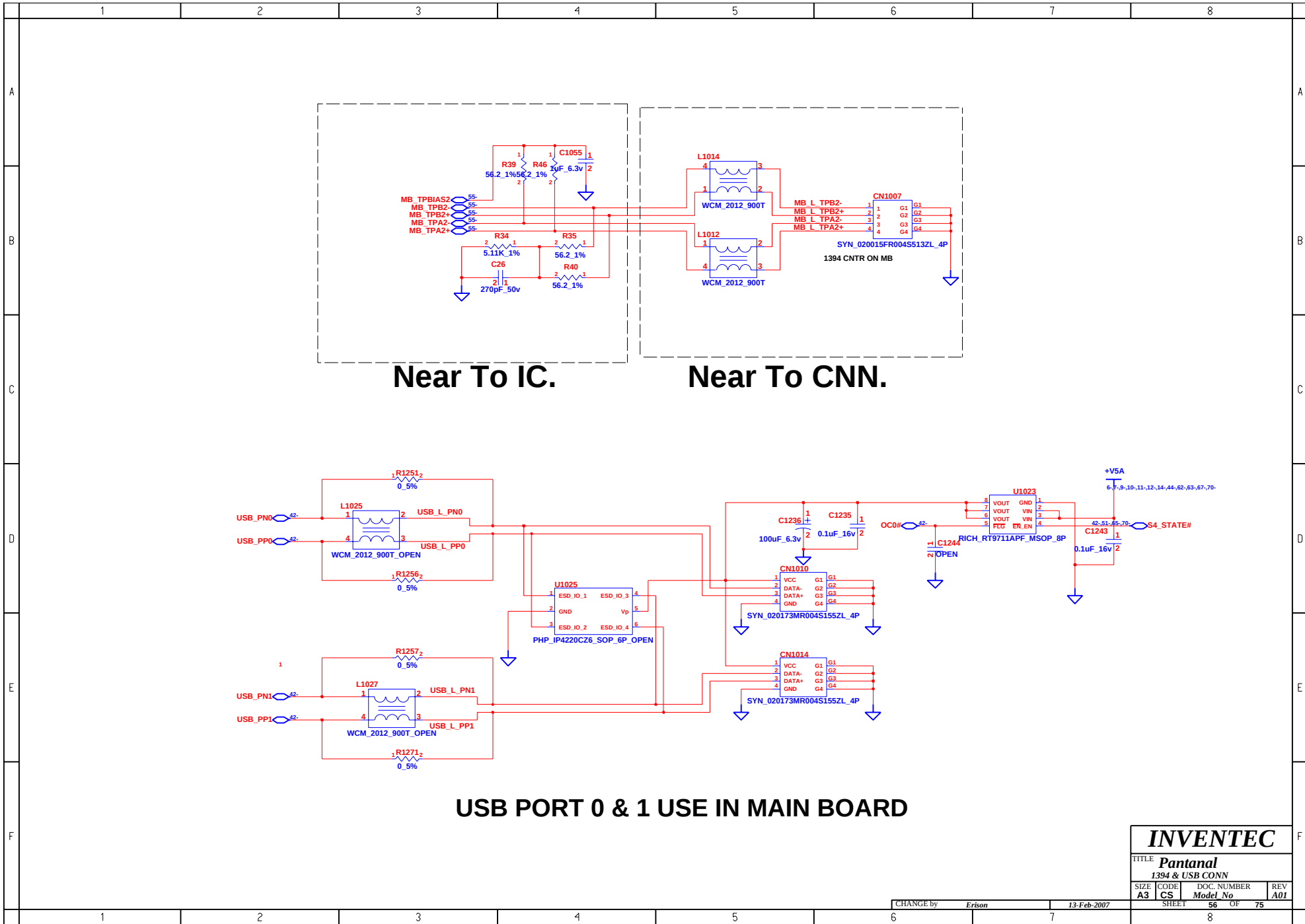








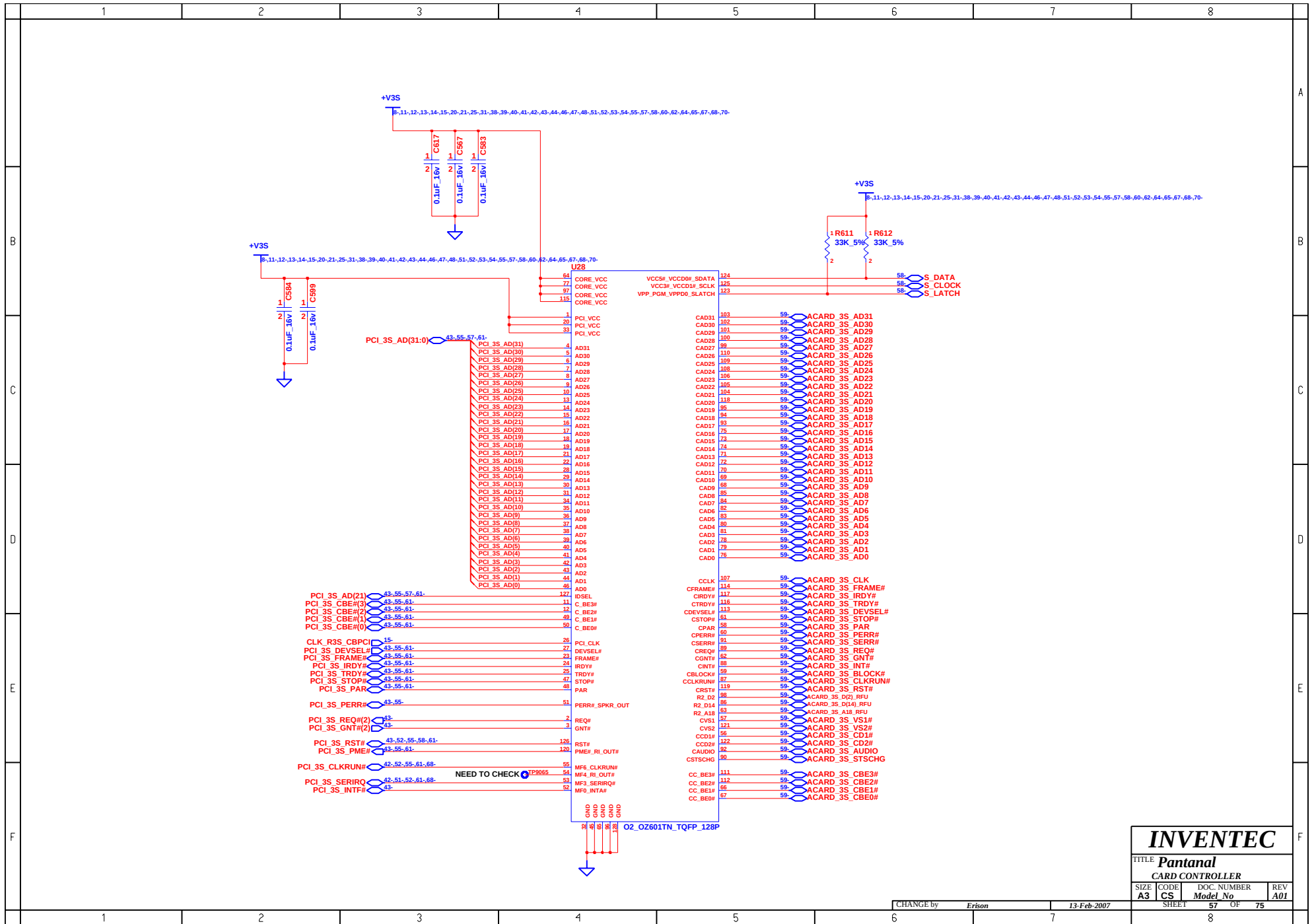


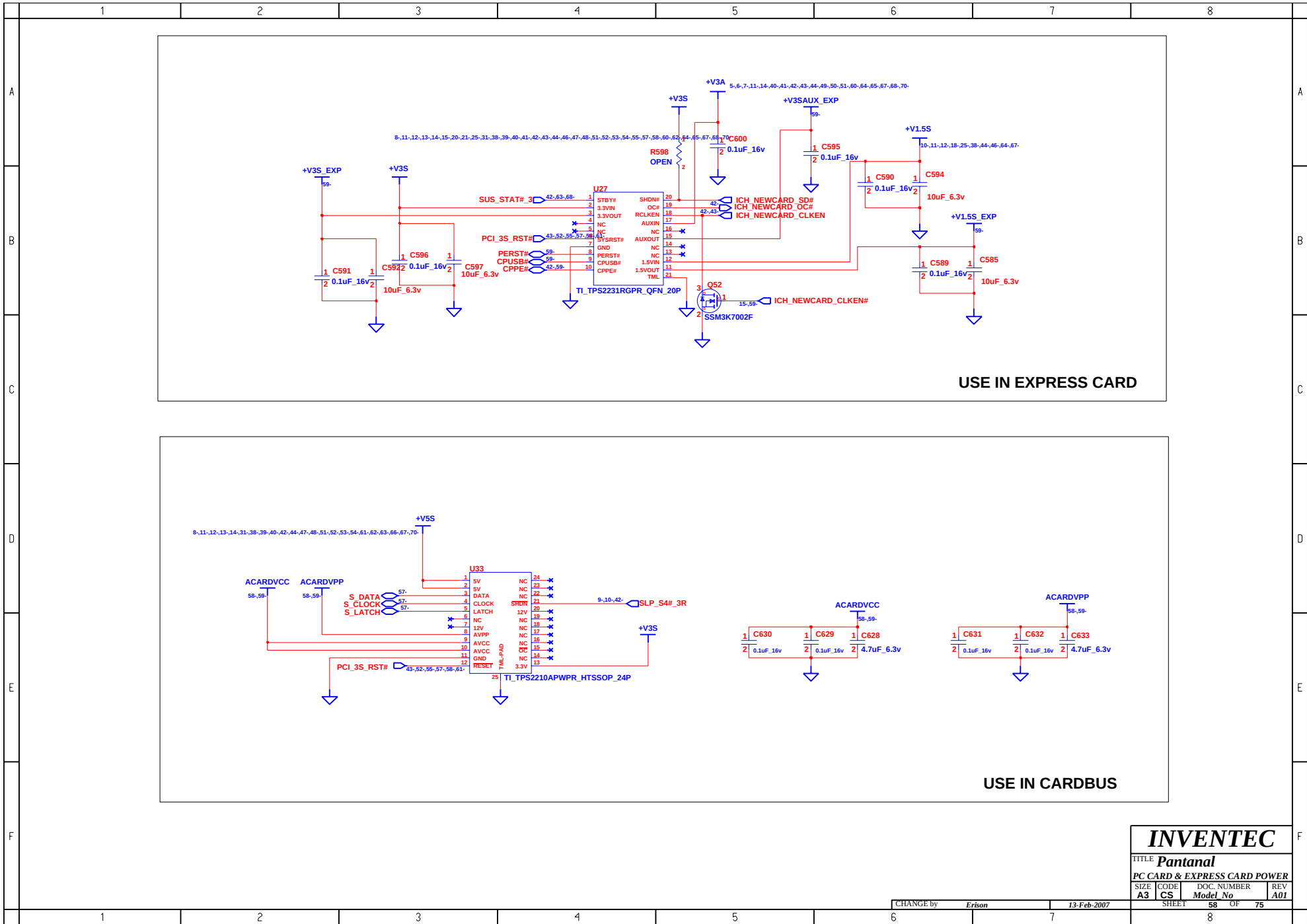


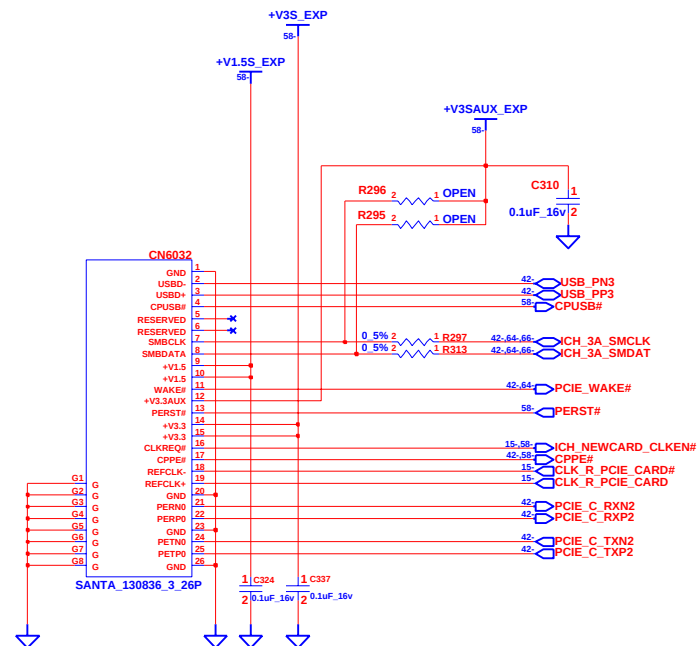
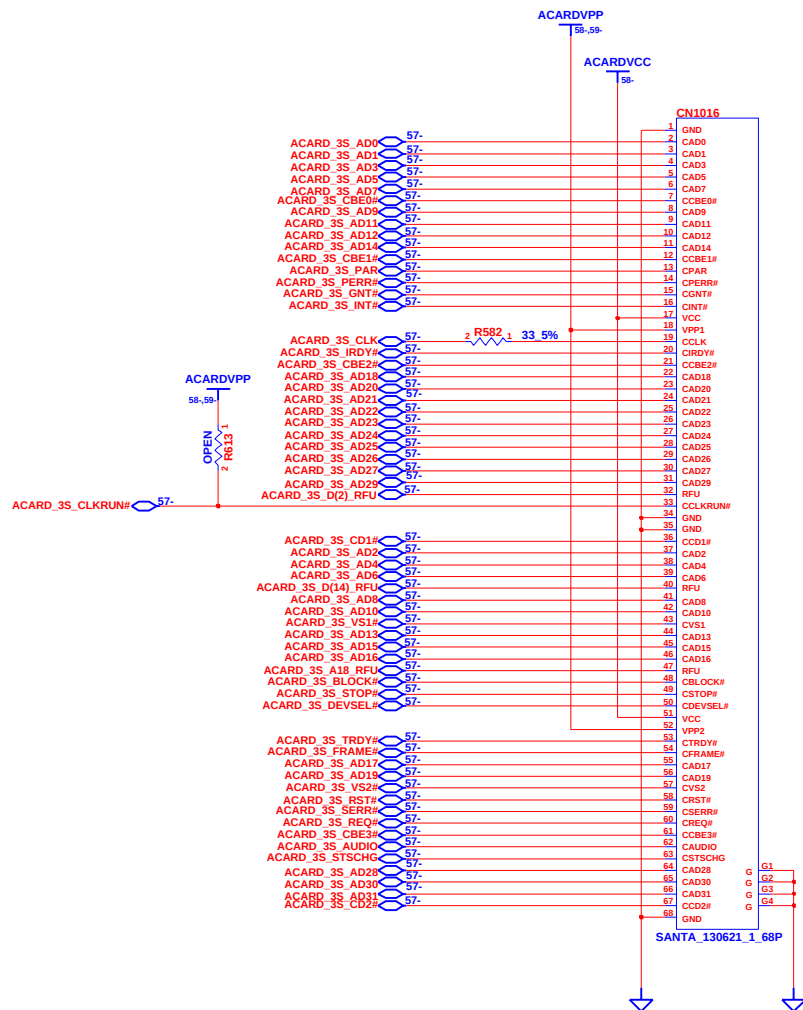
INVENTEC

TITLE Pantanal			
1394 & USB CONN			
SIZE A3	CODE CS	DOC. NUMBER	REV A01
Model No		SHEET 56	OF 75

CHANGE by *Erison* 13-Feb-2007







EXPRESS CARD CONN

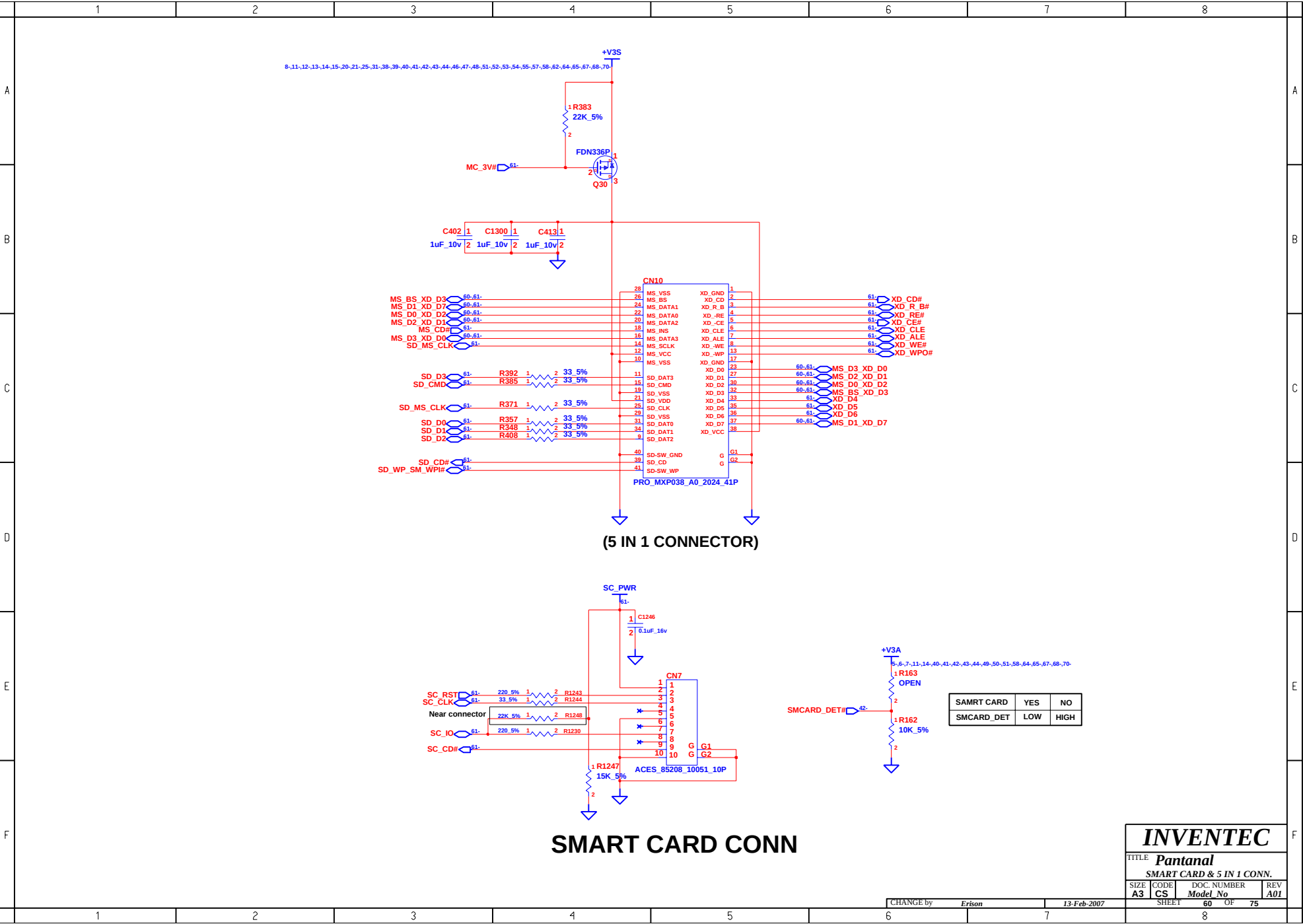
INVENTEC

TITLE	<i>Pantanal</i> PC CARD & EXPRESS CARD CONN
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model_No	A01

CHANGE by	<i>Erison</i>	<i>13-Feb-2007</i>
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SHEET 59 OF 75



INVENTEC

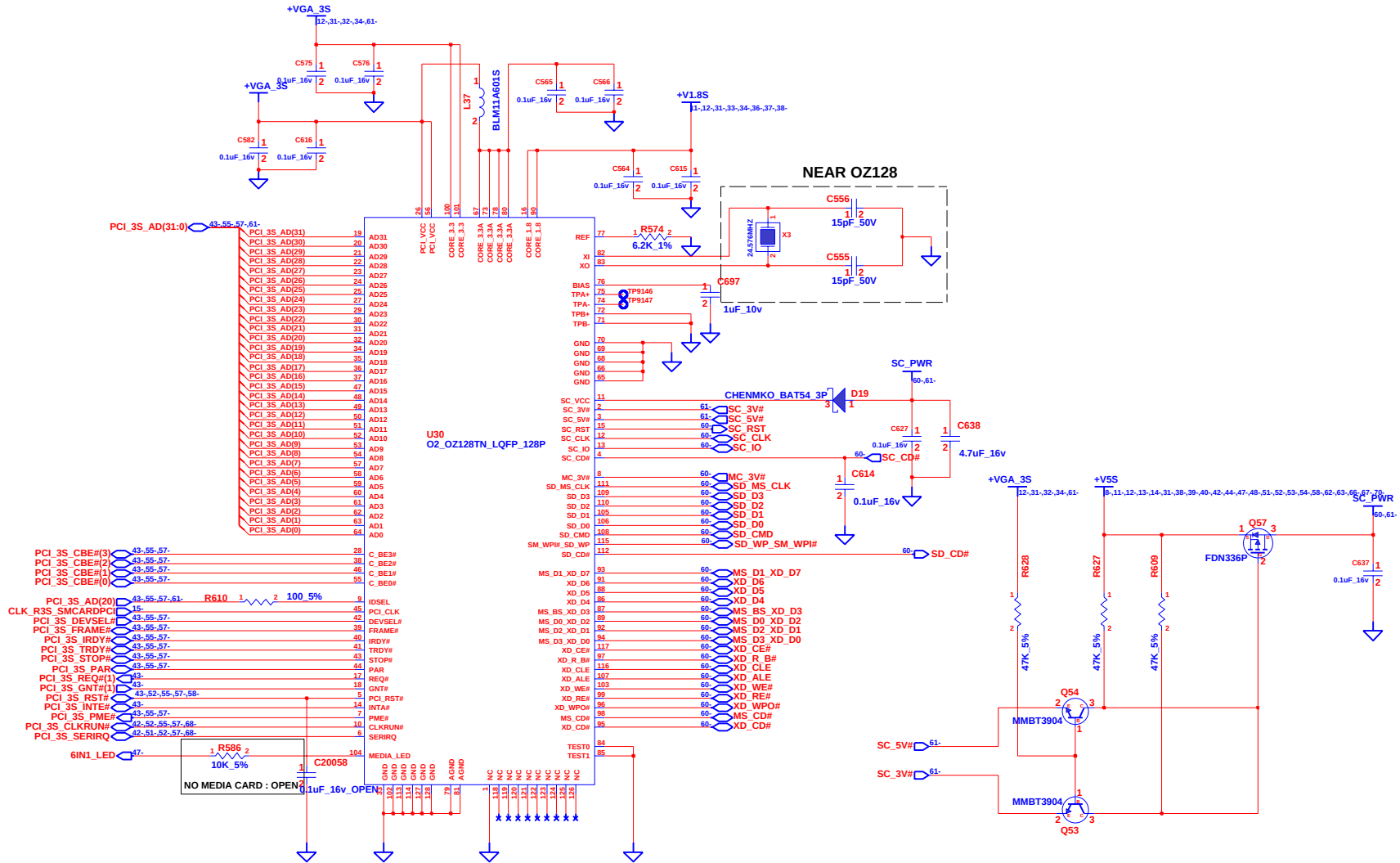
TITLE **Pantanal**
SMART CARD & 5 IN 1 CONN.

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Erison* 13-Feb-2007

SHEET 60 OF 75

NOTE: +V1.8S NEED POWER ON FASTER THAN +VGA_3S

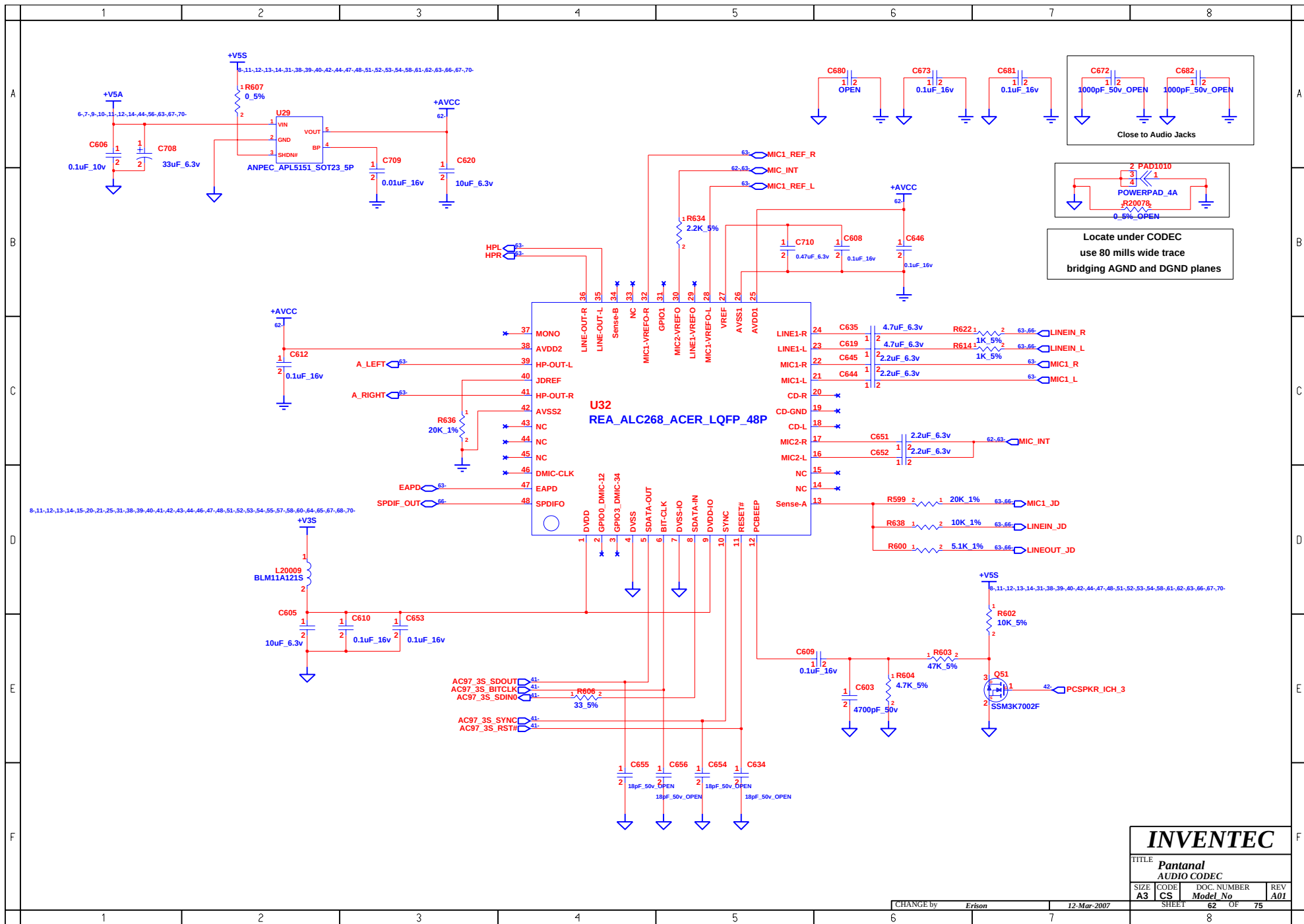


INVENTEC

TITLE			
Pantanal SMART CARD IC & SC POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Erison* 13-Feb-2007

SHEET 61 OF 75

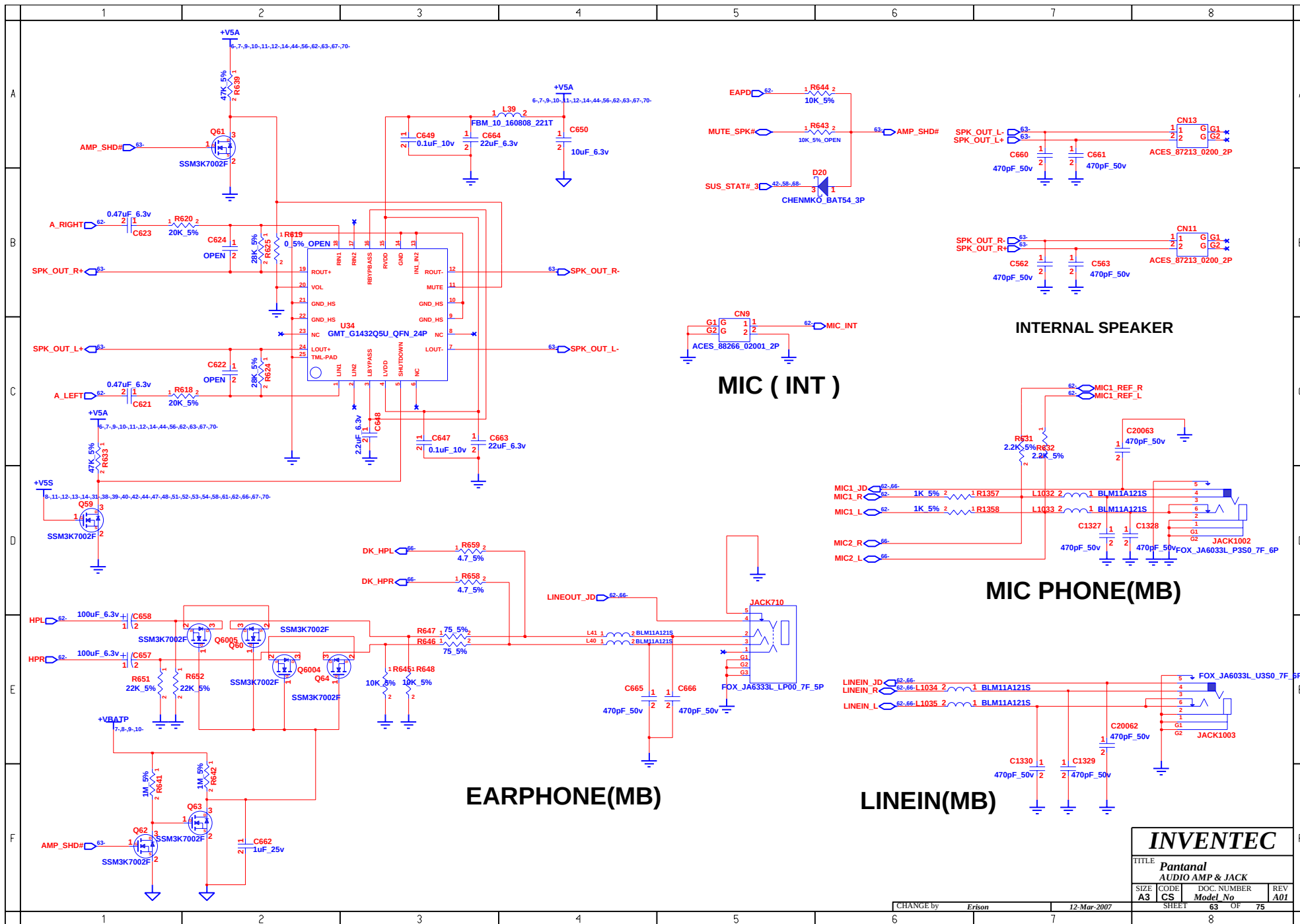


INVENTEC

TITLE			
Pantanal AUDIO CODEC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Erison 12-Mar-2007

SHEET 62 OF 75



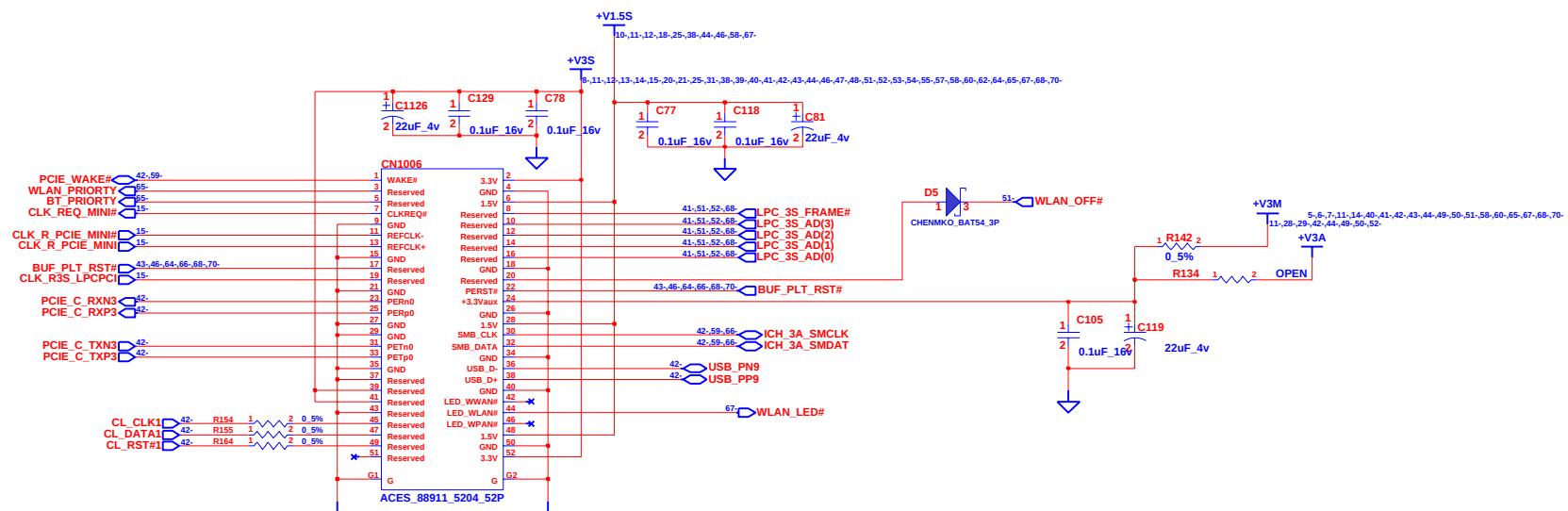
INVENTEC

TITLE
**Pantanal
AUDIO AMP & JACK**

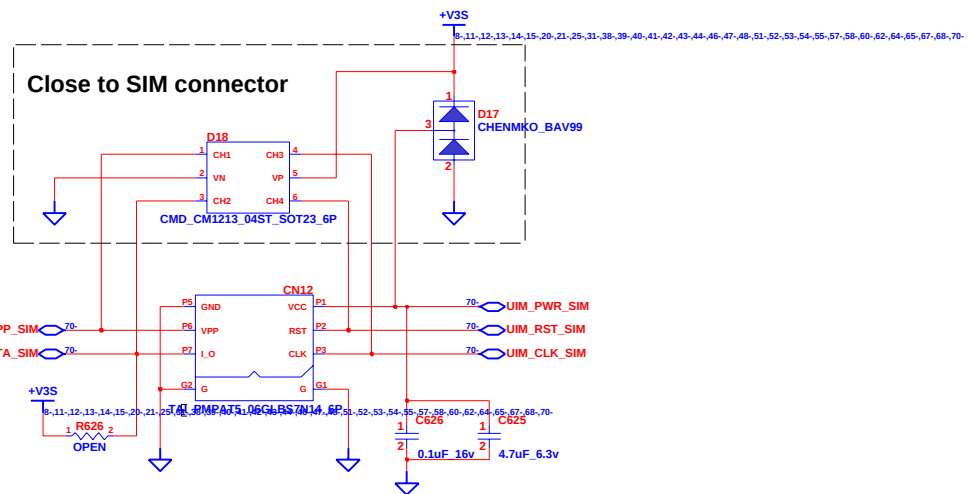
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
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CHANGE by *Erison* 12-Mar-2007

SHEET 63 OF 75

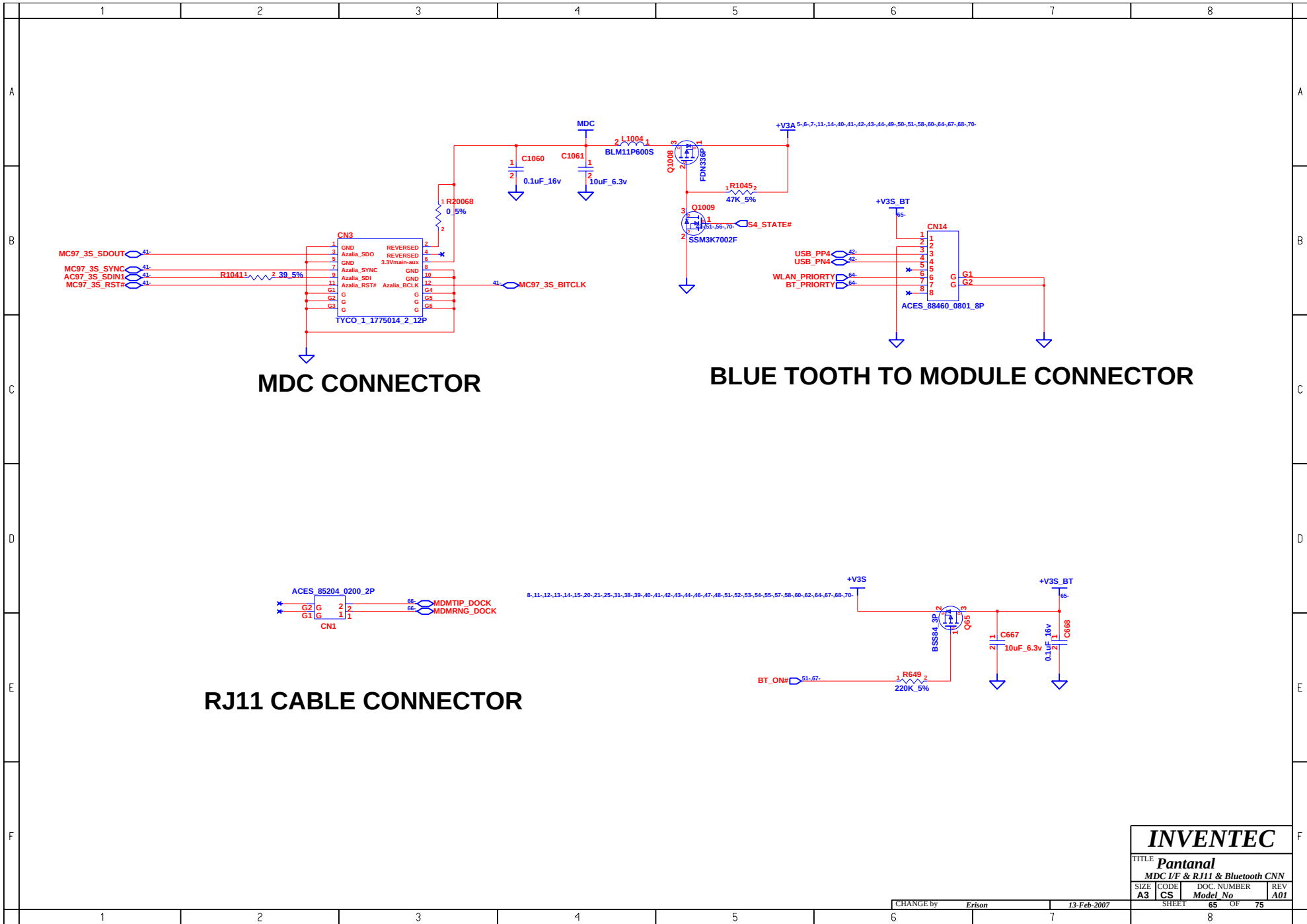


(WLAN)



(SIM-CARD)

INVENTEC			
TITLE			
Pantanal			
WLAN & SIM SOCKET			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01
CHANGE by		Erison	12-Mar-2007
SHEET		64	OF 75
		8	

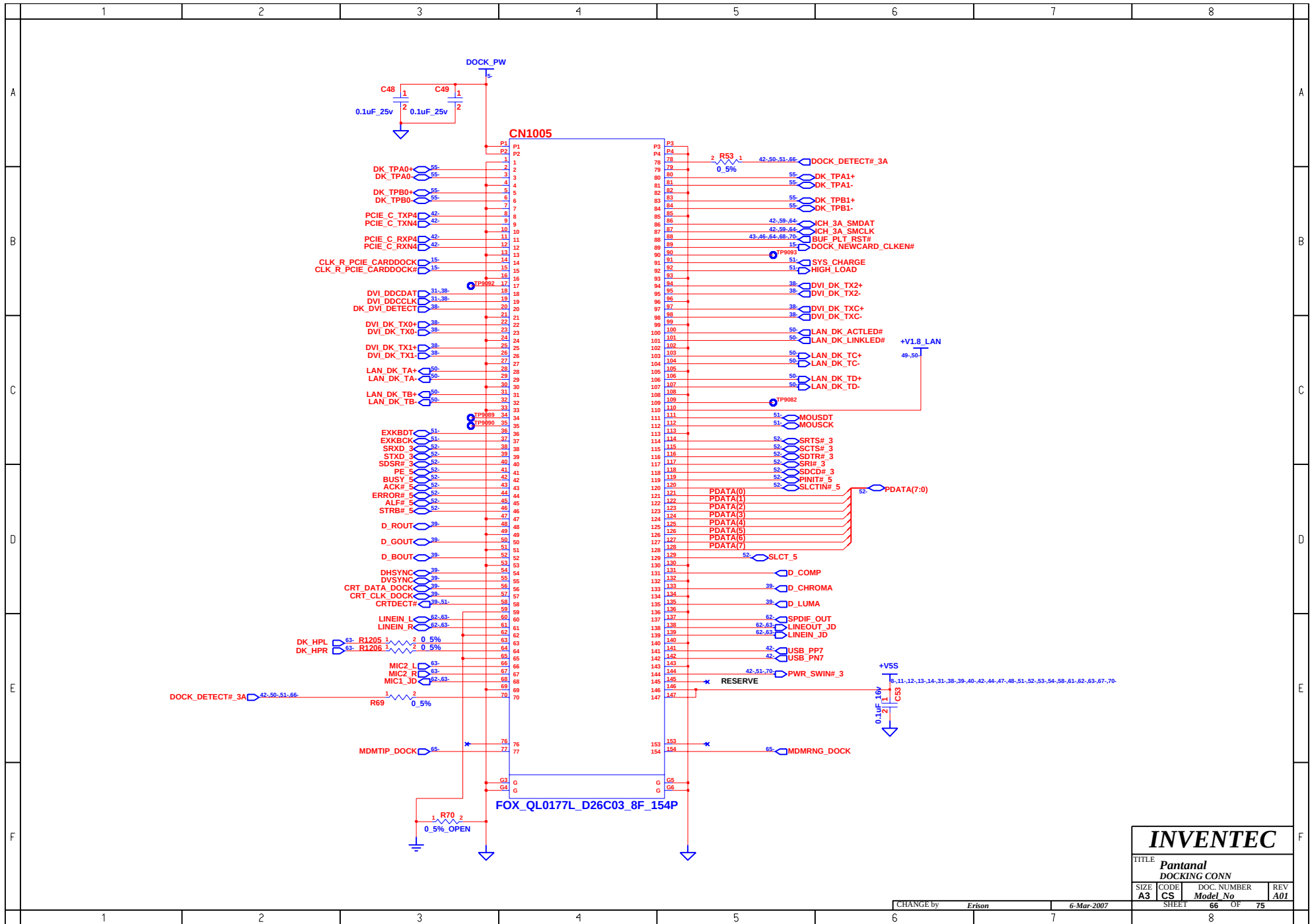


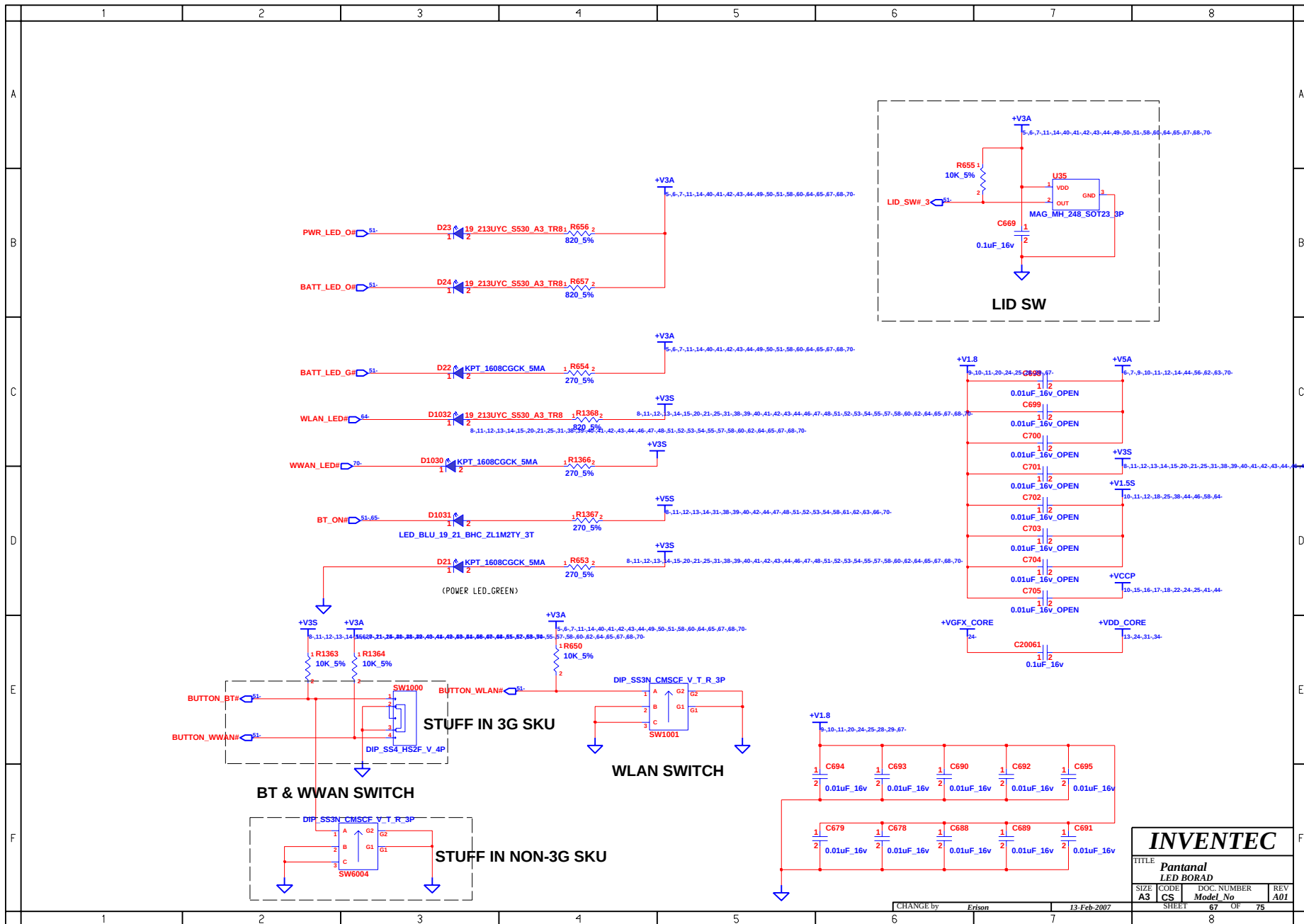
INVENTEC

TITLE Pantanal			
MDC I/F & RJ11 & Bluetooth CNN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01

CHANGE by *Erison* 13-Feb-2007

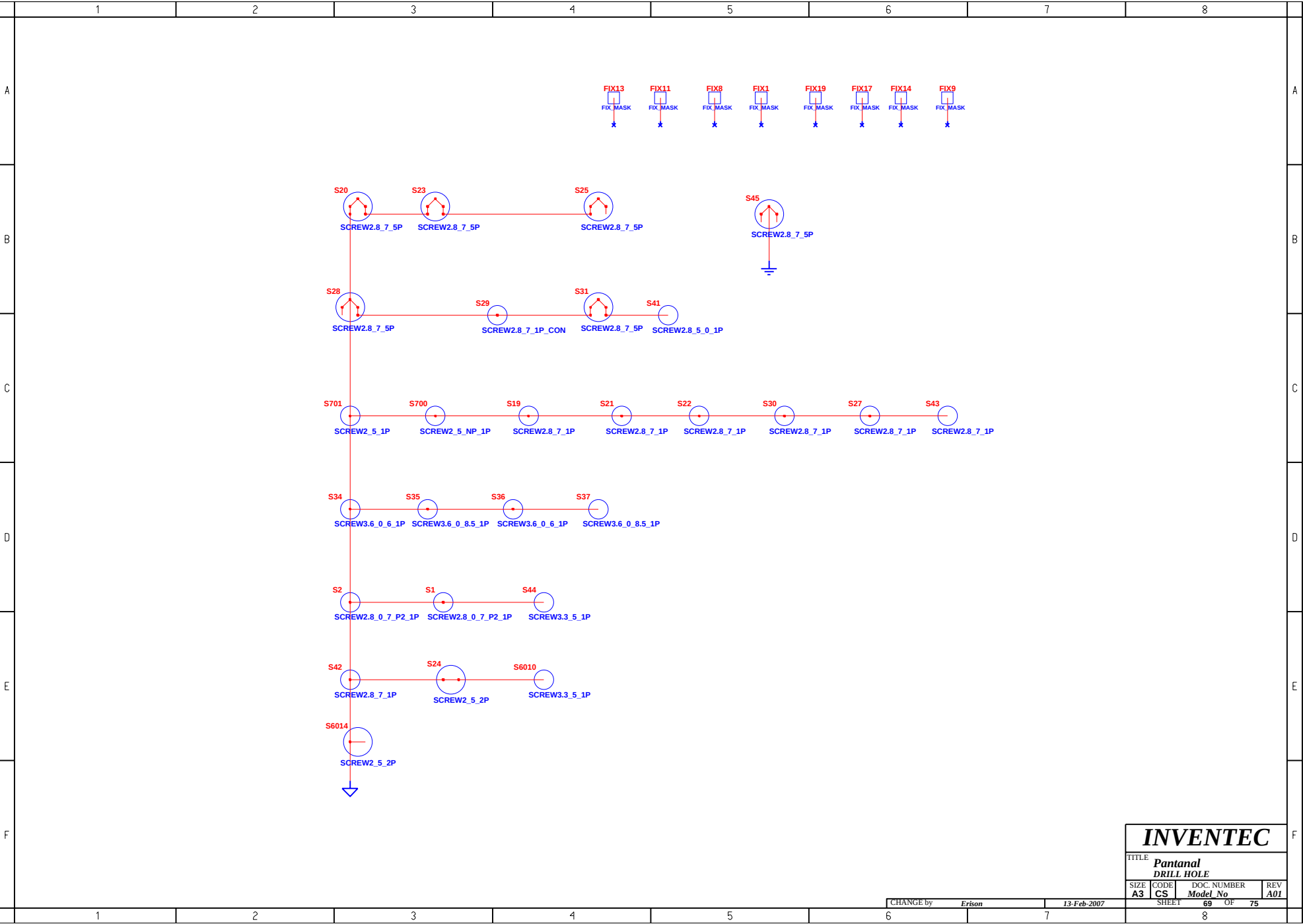
SHEET 65 OF 75





INVENTEC			
TITLE Pantanal LED BORAD			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
SHEET 67	OF 75	8	

CHANGE by Erlson 13-Feb-2007



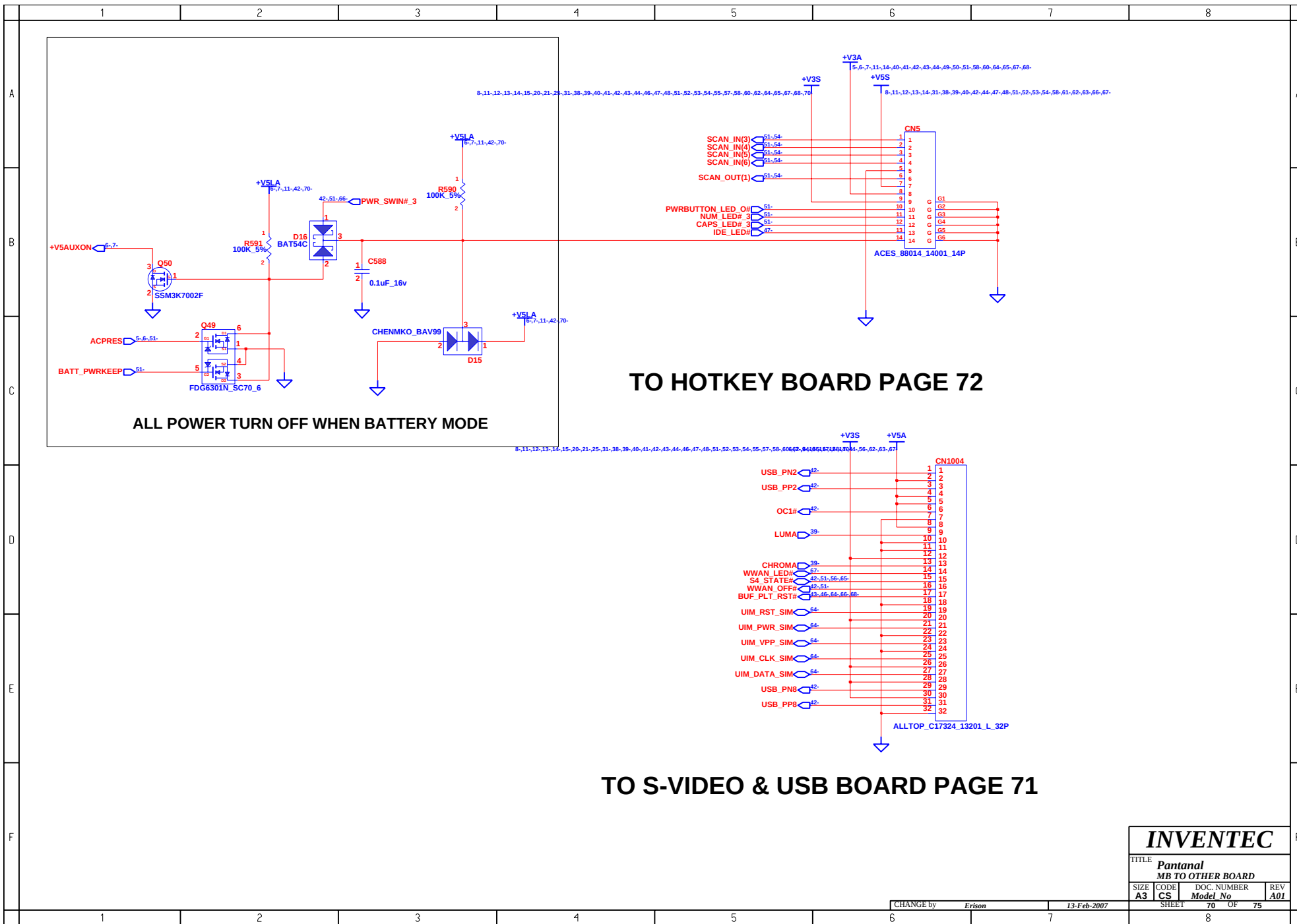
INVENTEC

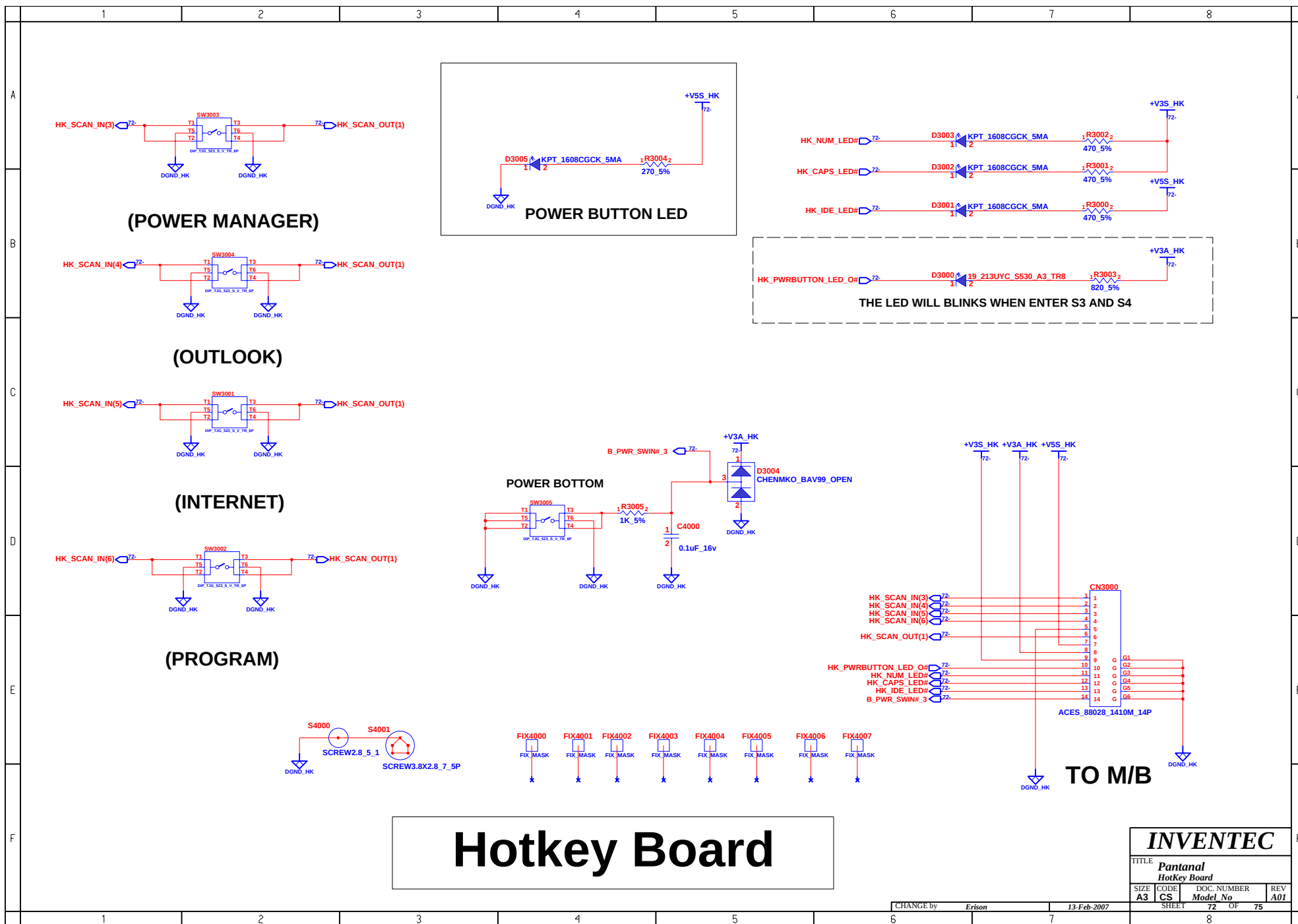
TITLE
**Pantanal
DRILL HOLE**

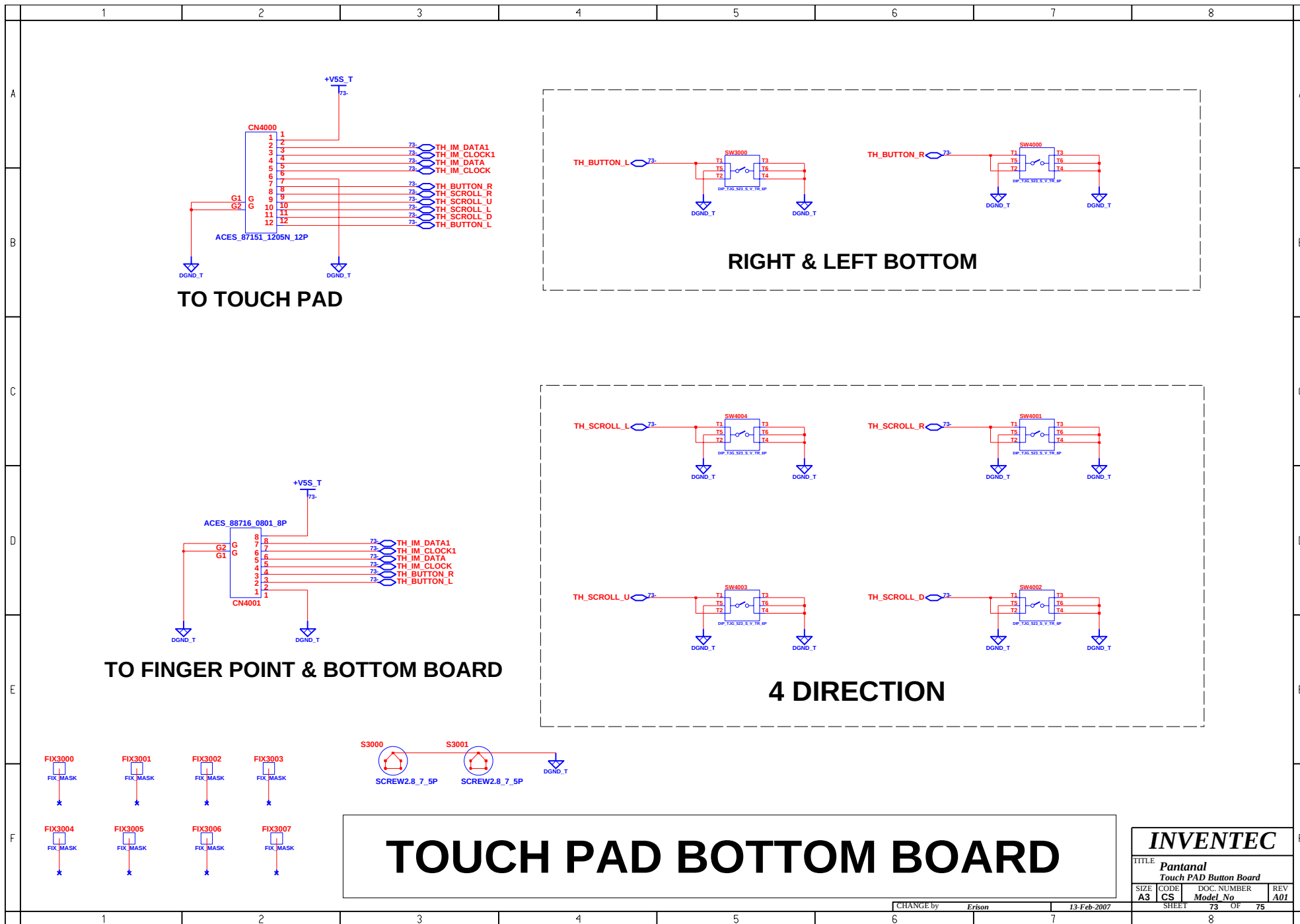
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

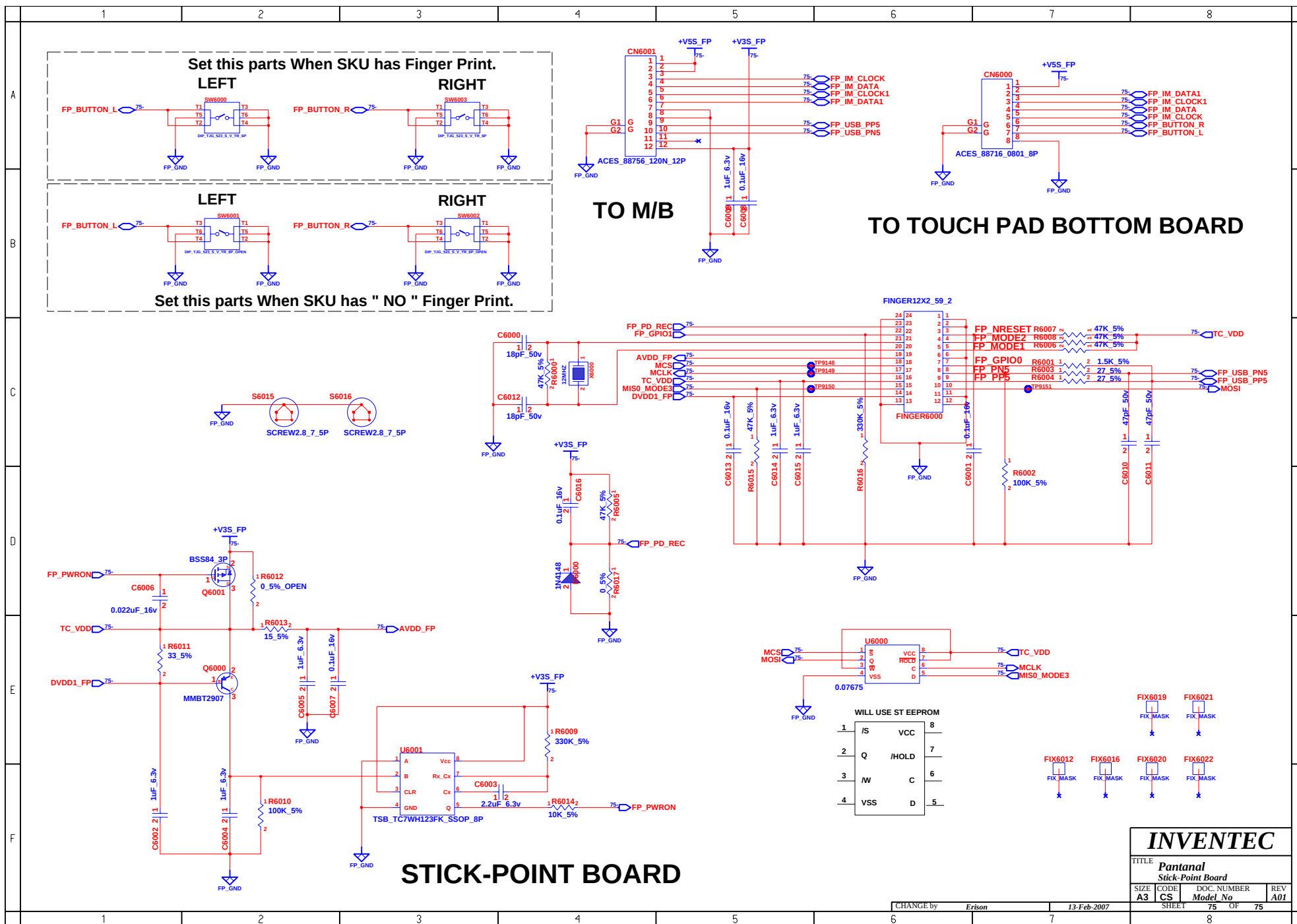
CHANGE by *Erison* 13-Feb-2007

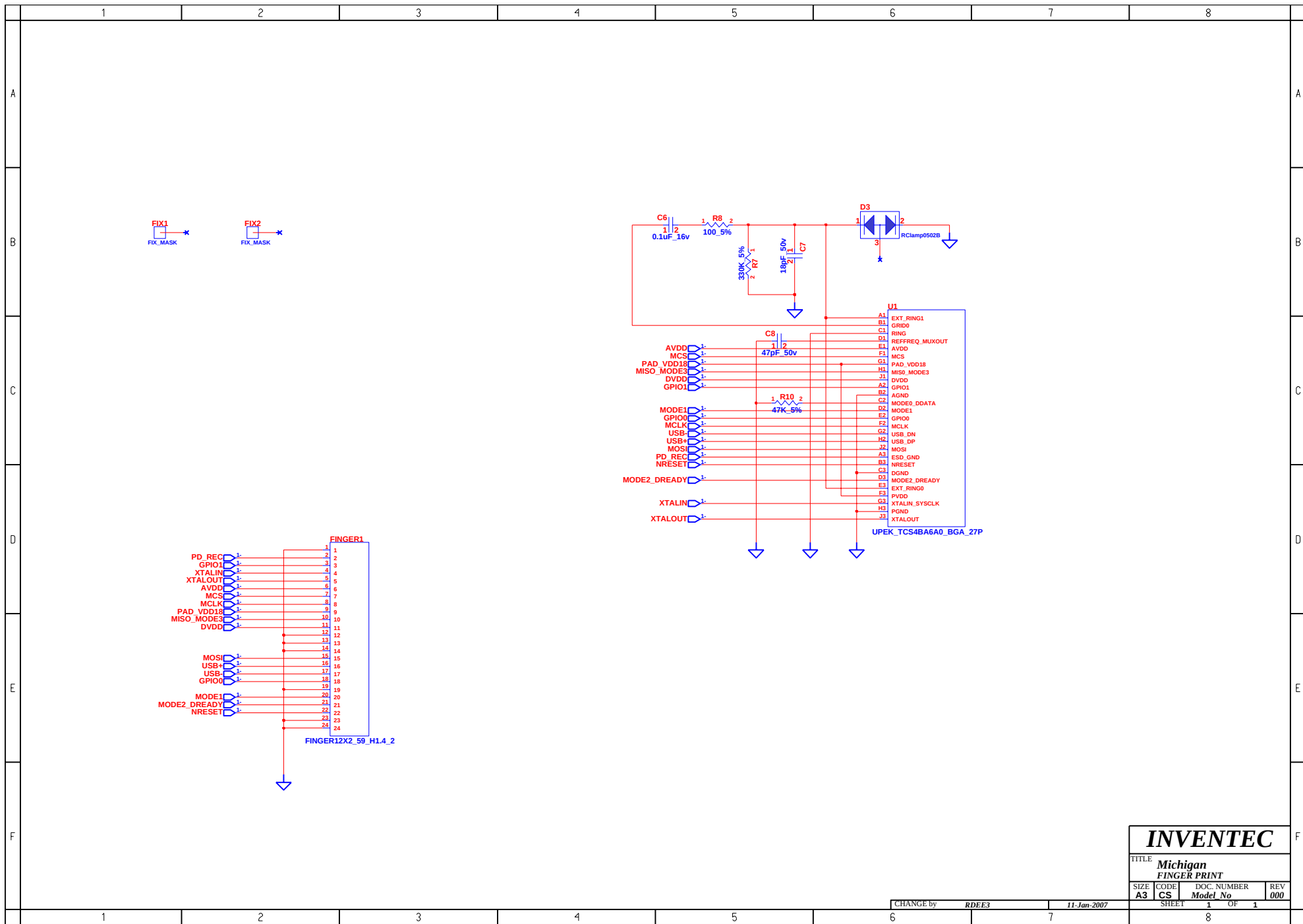
SHEET 69 OF 75











INVENTEC

TITLE
Michigan
FINGER PRINT

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	000

1 1