

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

ASPEN

UMA MV - BUILD

FINAL BUILD 2004.12.13

DATE	CHANGE NO.	REV
1		2

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

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6- SELECT & BATTERY CONN
7- SYSTEM POWER(3V/5V/12V)
8- SYSTEM POWER(V1.2L/V2.5S)
9- SYSTEM POWER(VGAVCC/V1.5A)
10- D/B SYSTEM POWER(V1.8/VCCP)
11- CPU POWER(VCC_CORE)
12- SYSTEM POWER (V0.9)
13- POWER(SLEEP)
14- POWER(SEQUENCE)
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16- DOTHAN-1
17- DOTHAN-2
18- DOTHAN-3
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20- THERMAL&FAN CONTROLLER
21- ALVISO-1
22- ALVISO-2
23- ALVISO-3
24- ALVISO-4
25- ALVISO-5
26- DDR2-DIMM0
27- DDR2-DIMM1
28- DDR2-DAMPING

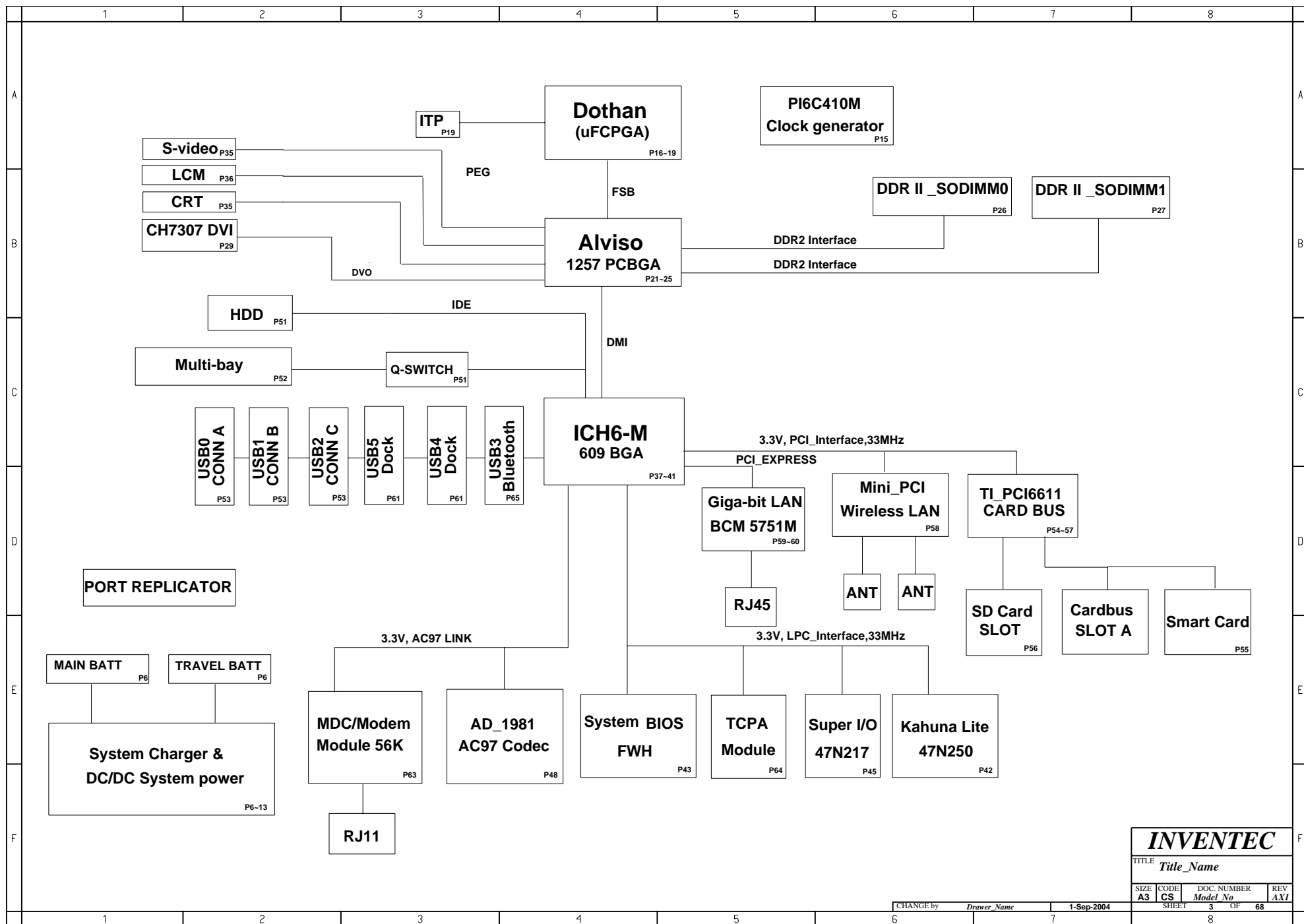
PAGE
29- DVI-CONTROLLER
30- BLANK
31- BLANK
32- BLANK
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34- BLANK
35- CRT& SVEDIO CONN
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37- ICH6-1
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62- SCREW
63- MDC CONN
64- TCPA CONN
65- BLUETOOTH
66- LED / LID_SWITCH
67- LED BOARD / CNN ( LED DAUGHTER BOARD)

**INVENTEC**TITLE *Title\_Name*

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <b>AXI</b>
SHEET <b>2</b>		OF <b>68</b>	

CHANGE by *Drawer Name* 1-Sep-2004



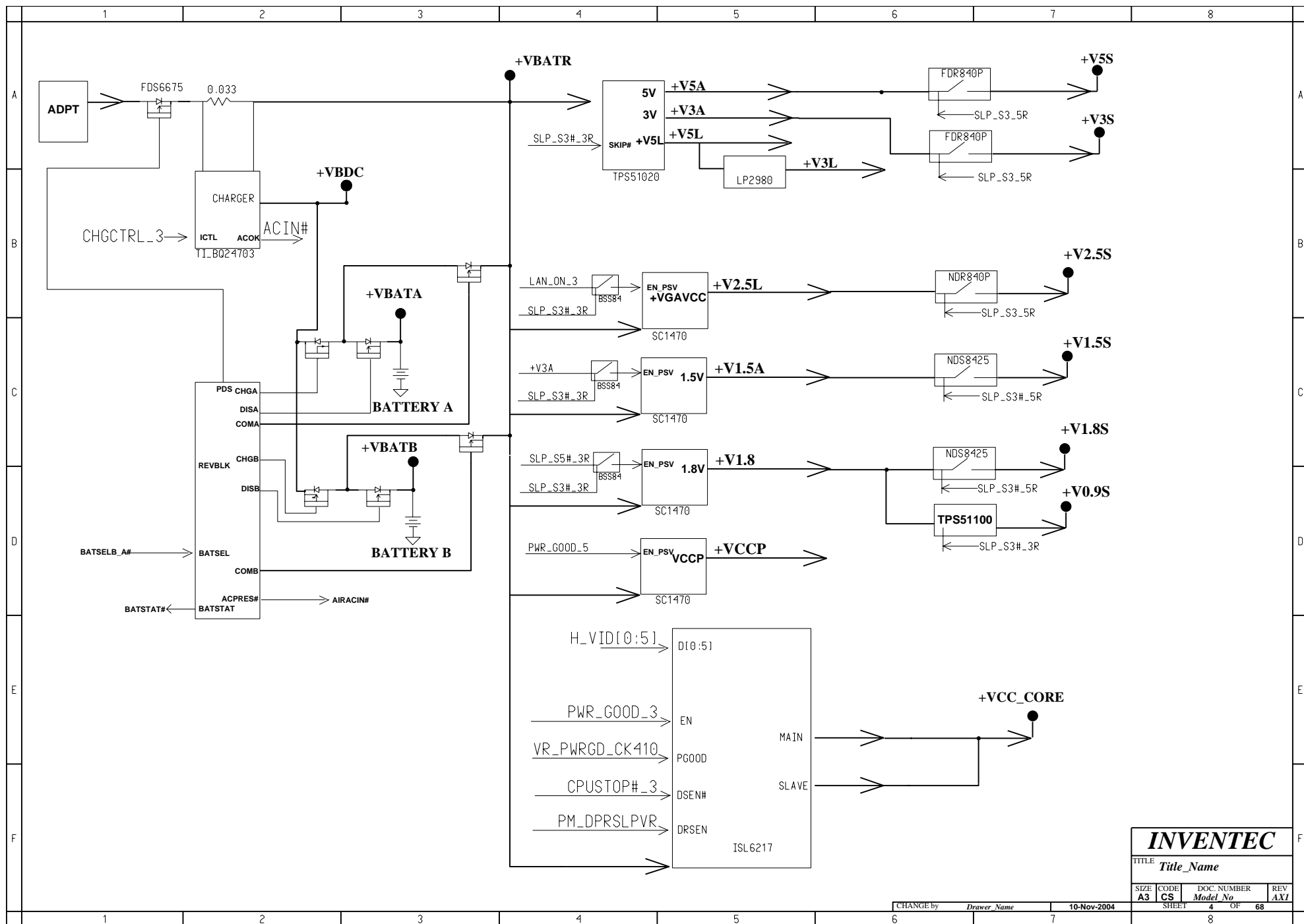
**INVENTEC**

TITLE Title\_Name

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by Drawer\_Name 1-Sep-2004

SHEET 3 OF 68



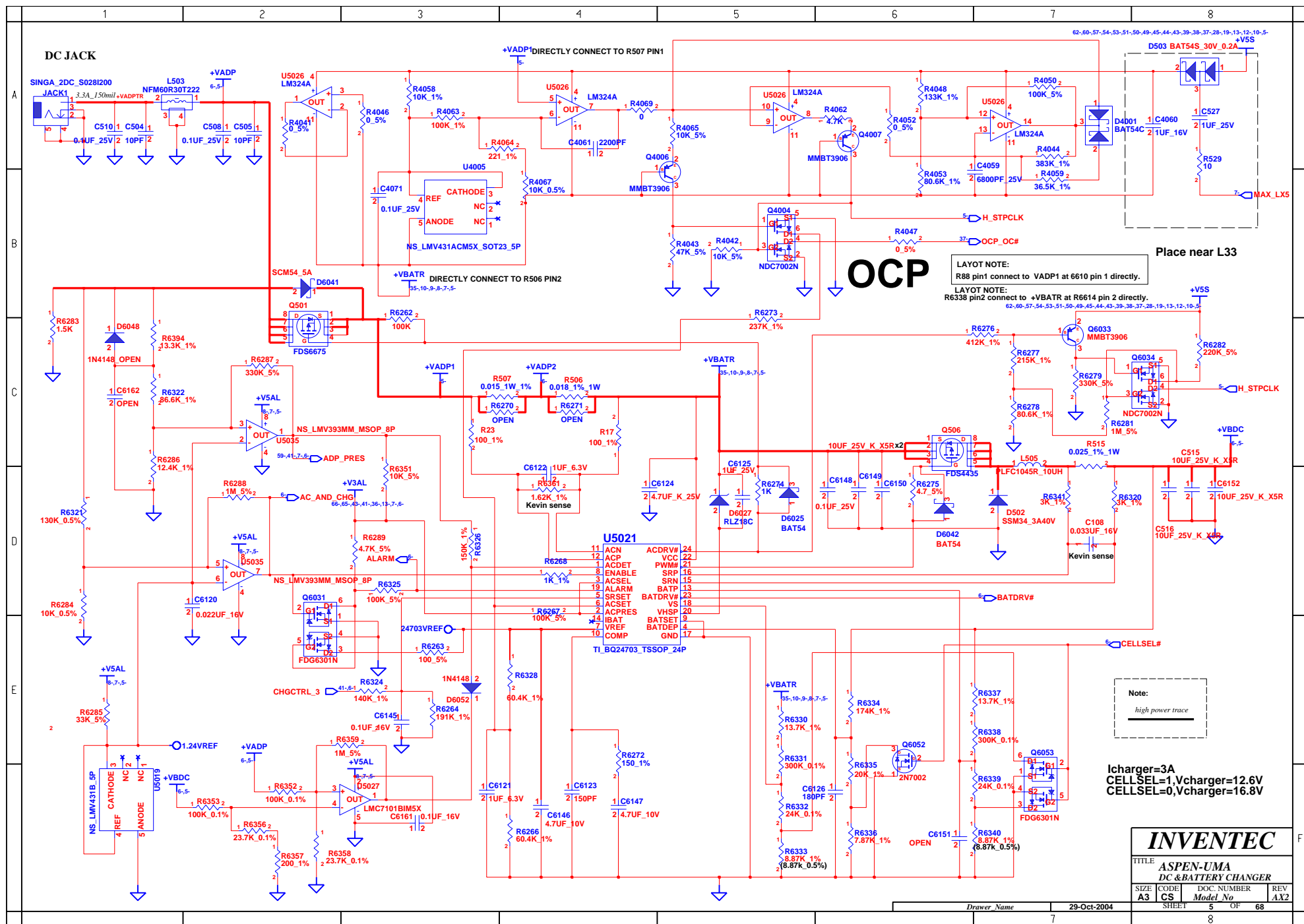
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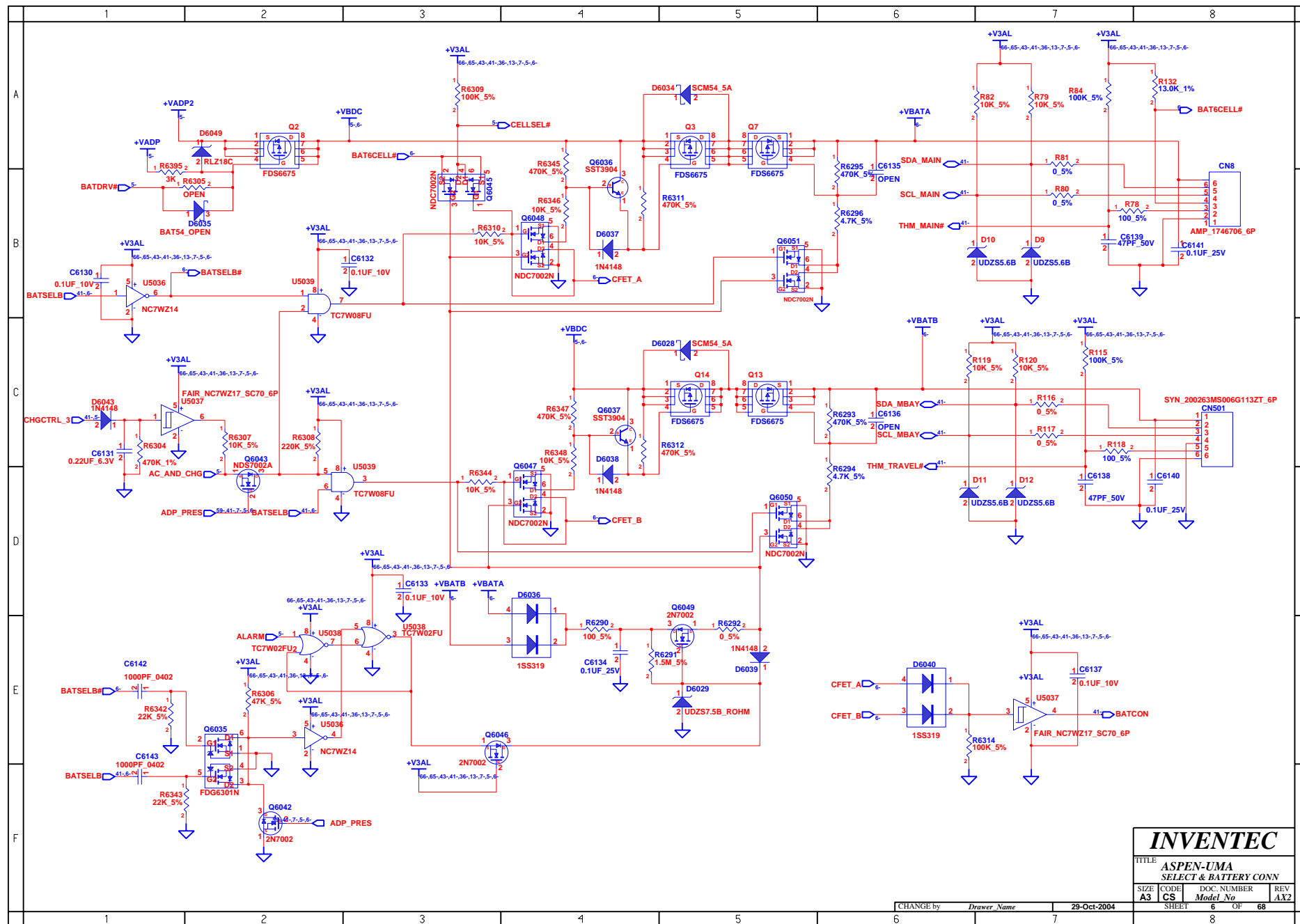
TITLE Title\_Name

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
------------	------------	-------------------------	------------

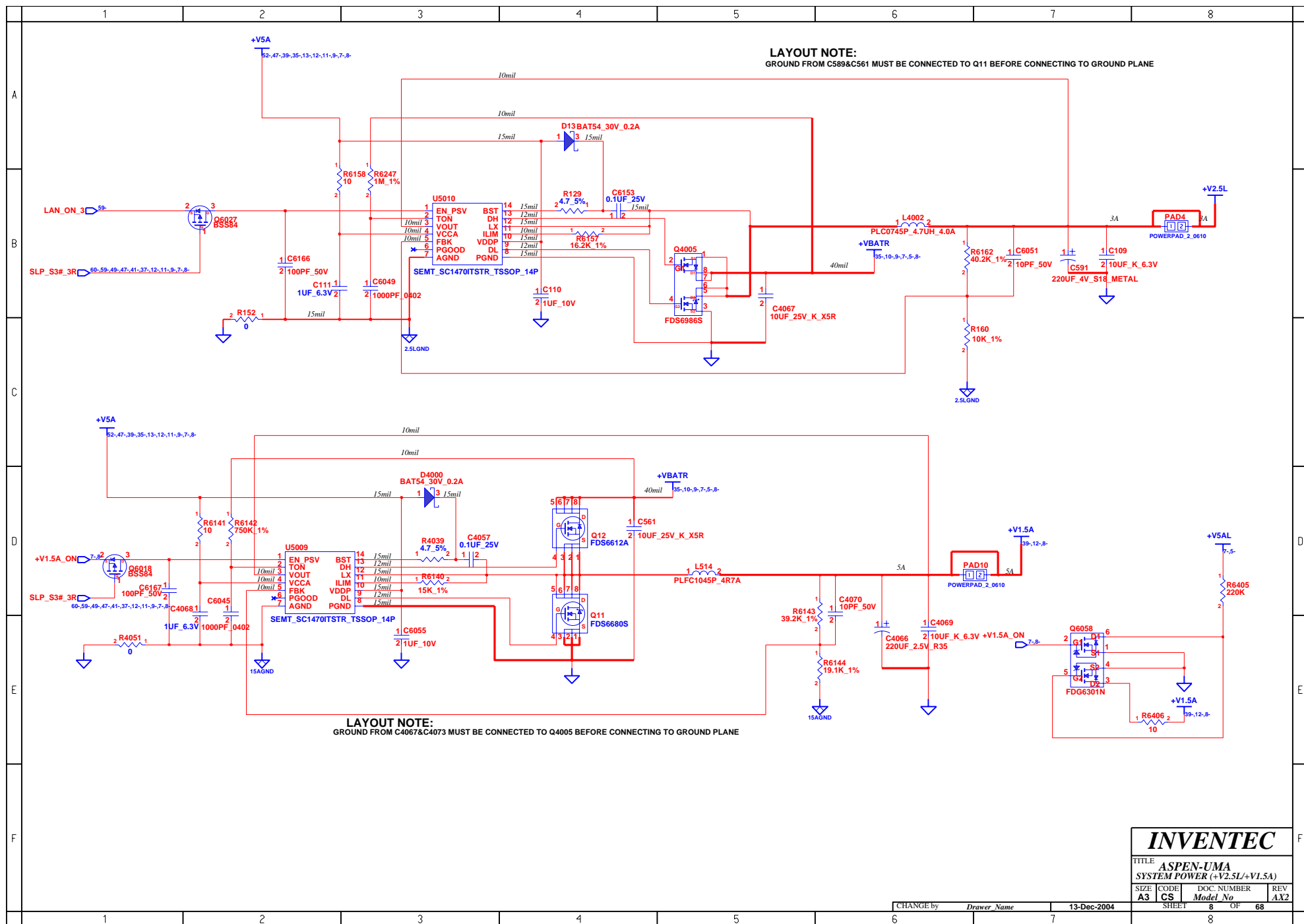
CHANGE by Drawer Name 10-Nov-2004

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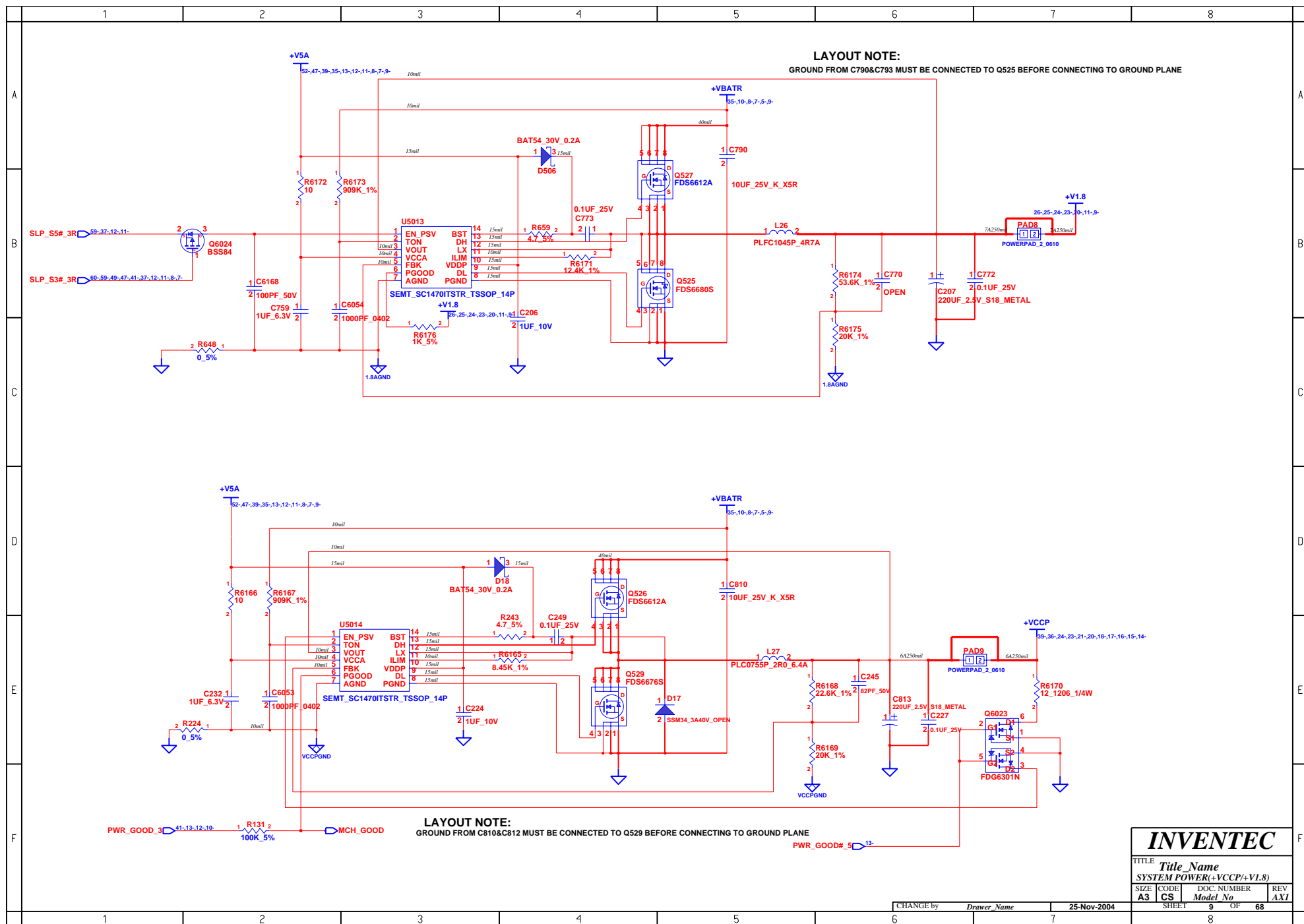




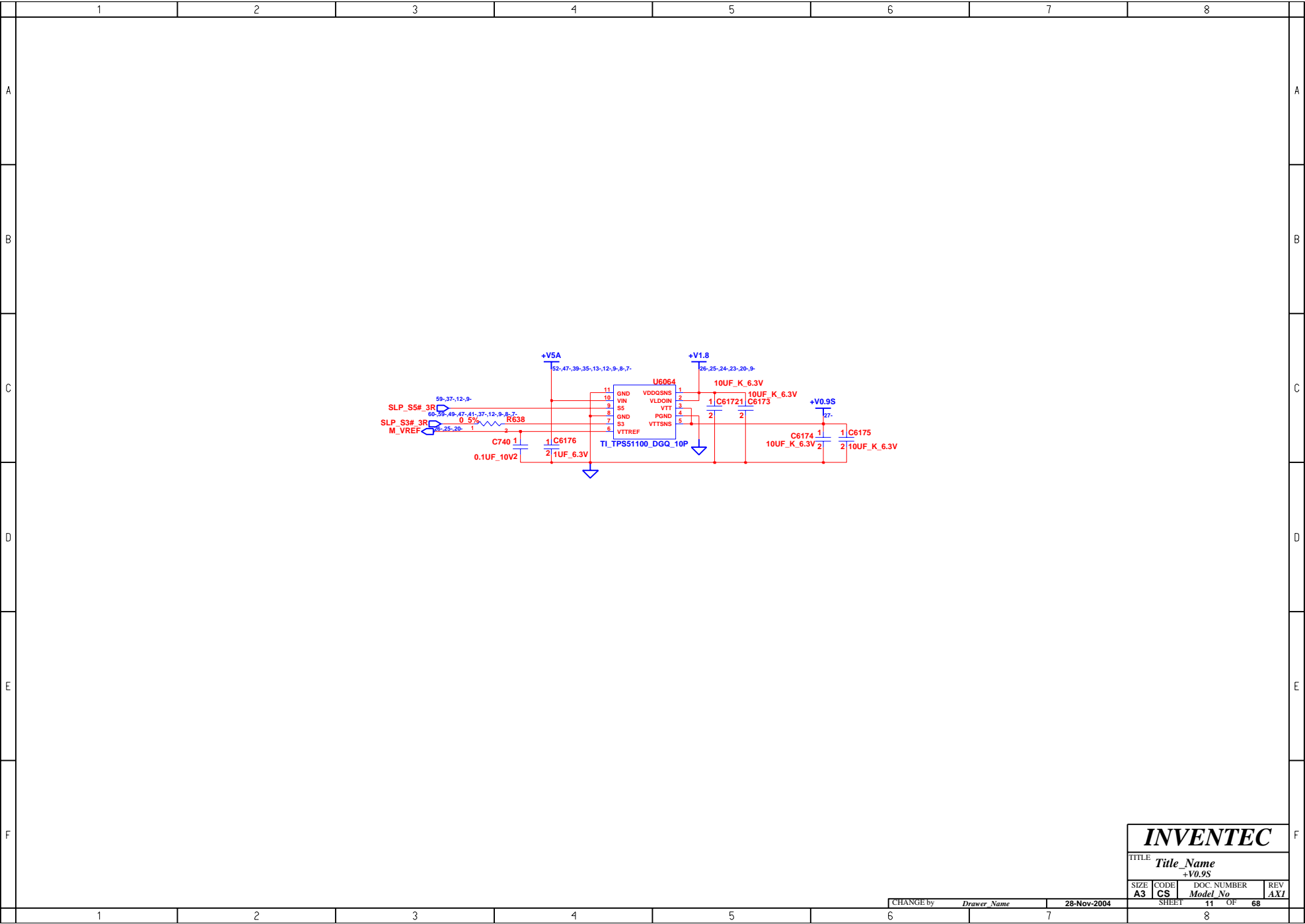










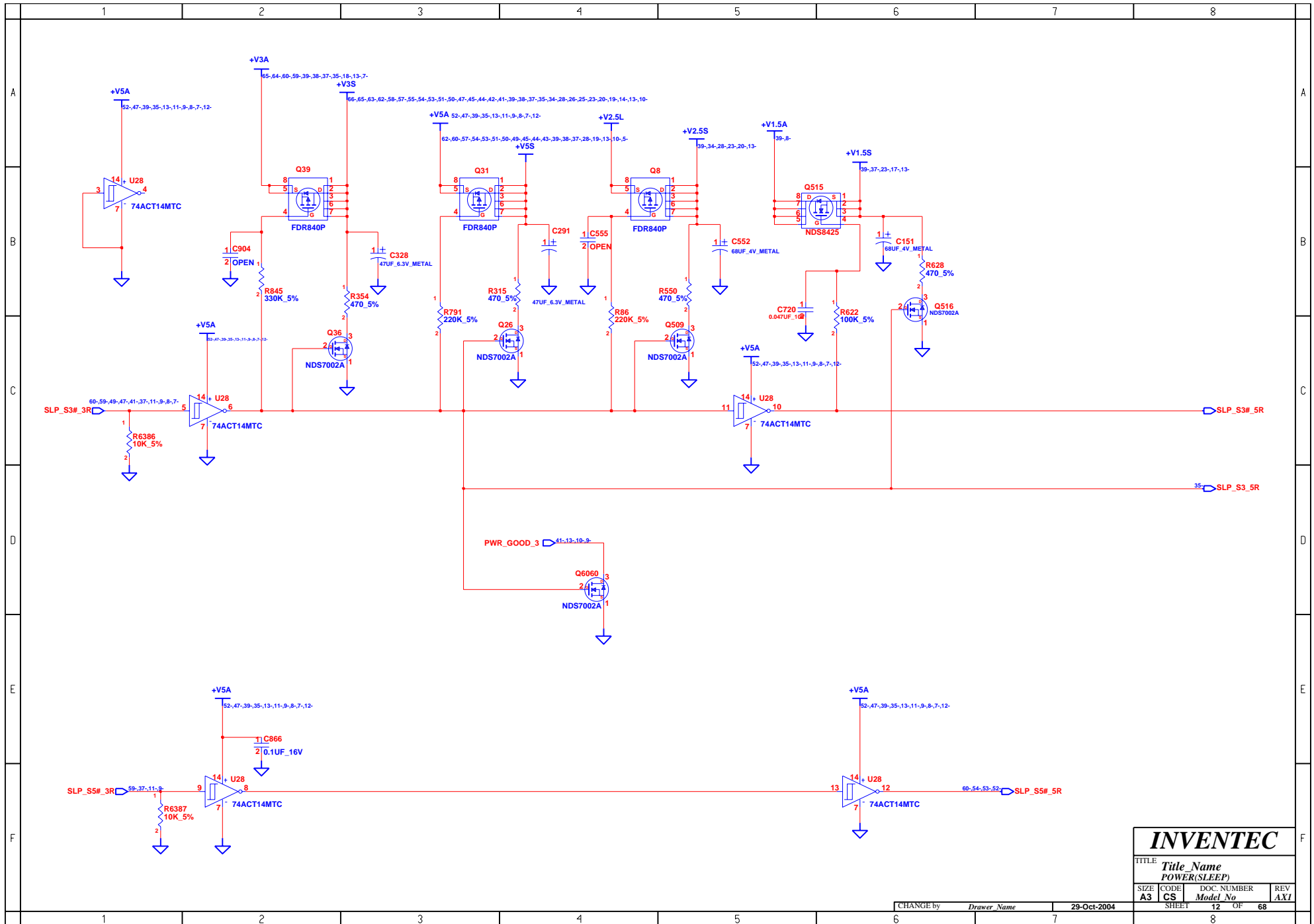


**INVENTEC**

TITLE			
Title_Name			
+V0.9S			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by Drawer Name 28-Nov-2004

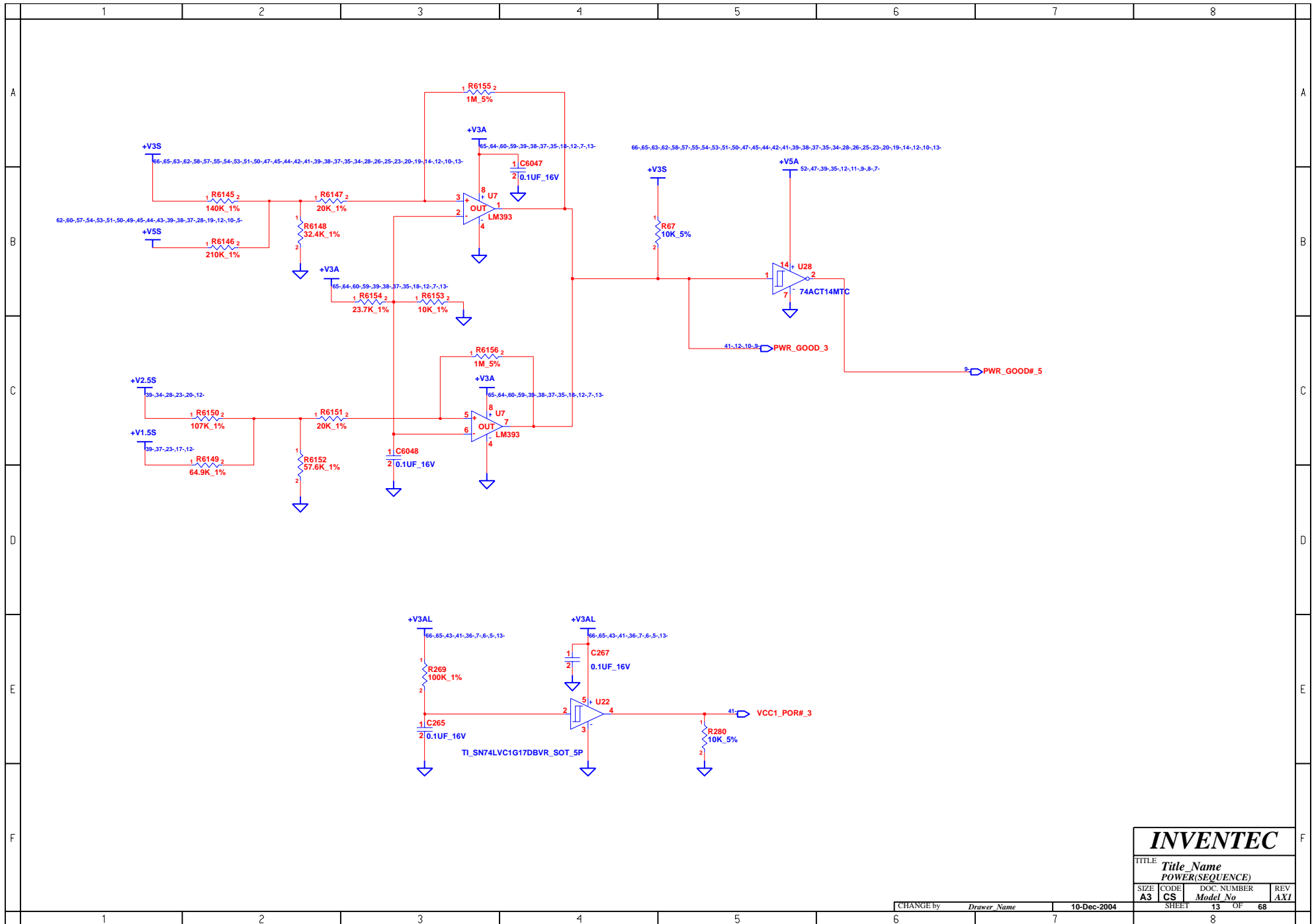
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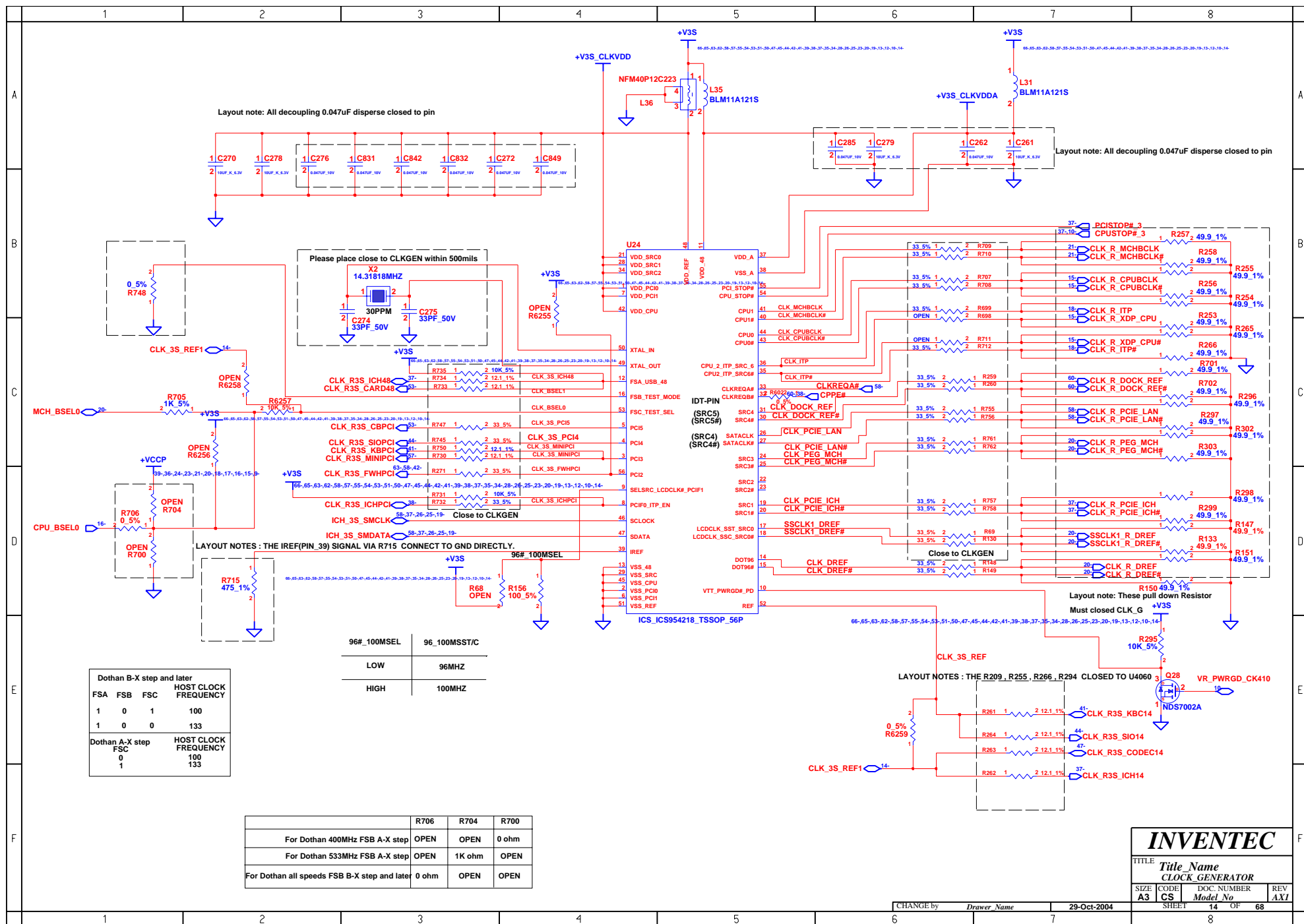
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Title Name			
POWER(SLEEP)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		12	OF 68

CHANGE by *Drawer Name* 29-Oct-2004

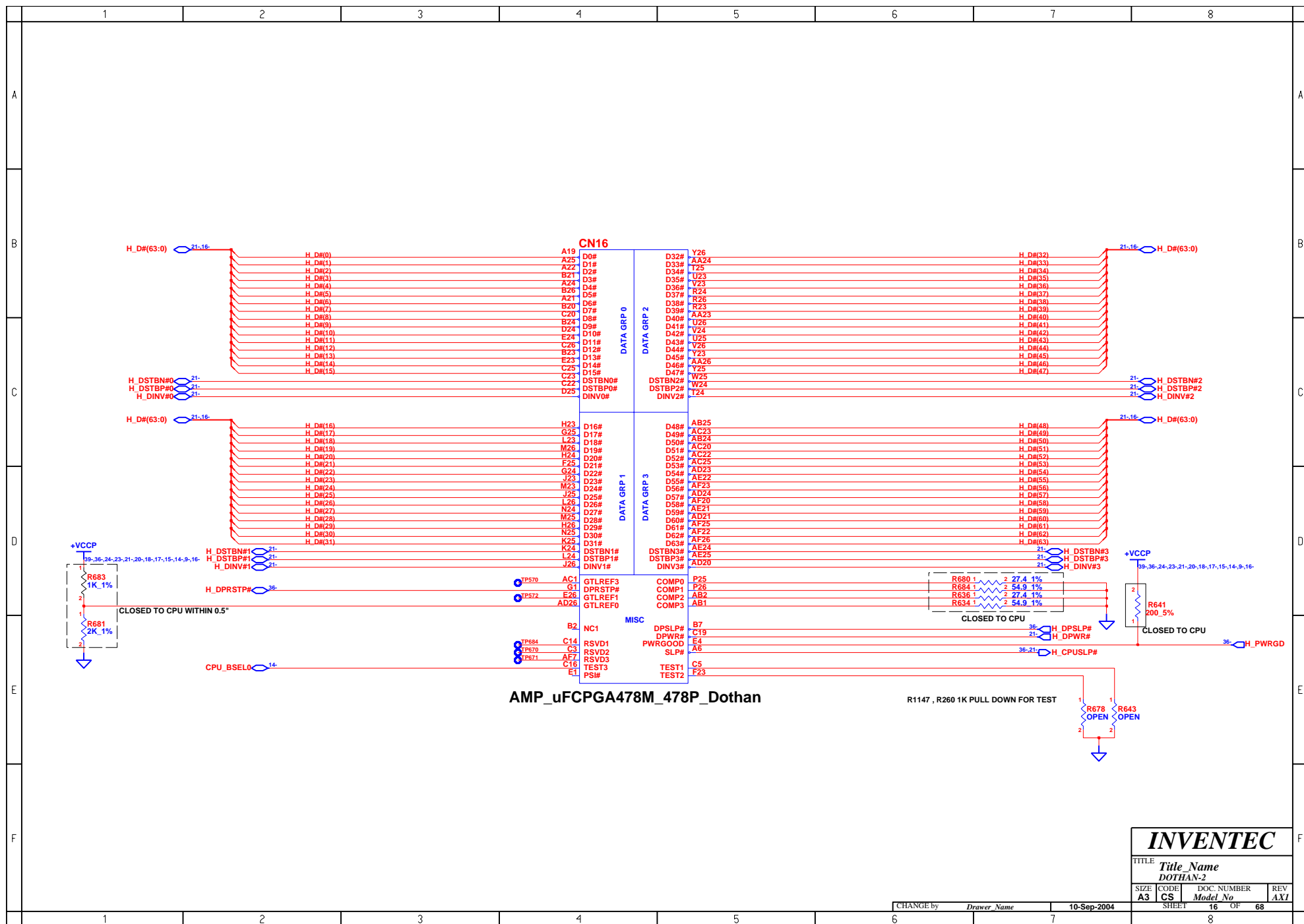


**INVENTEC**

TITLE			
Title Name			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
CHANGE by		10-Dec-2004	
Drawer Name			
SHEET		13	OF 68
		8	







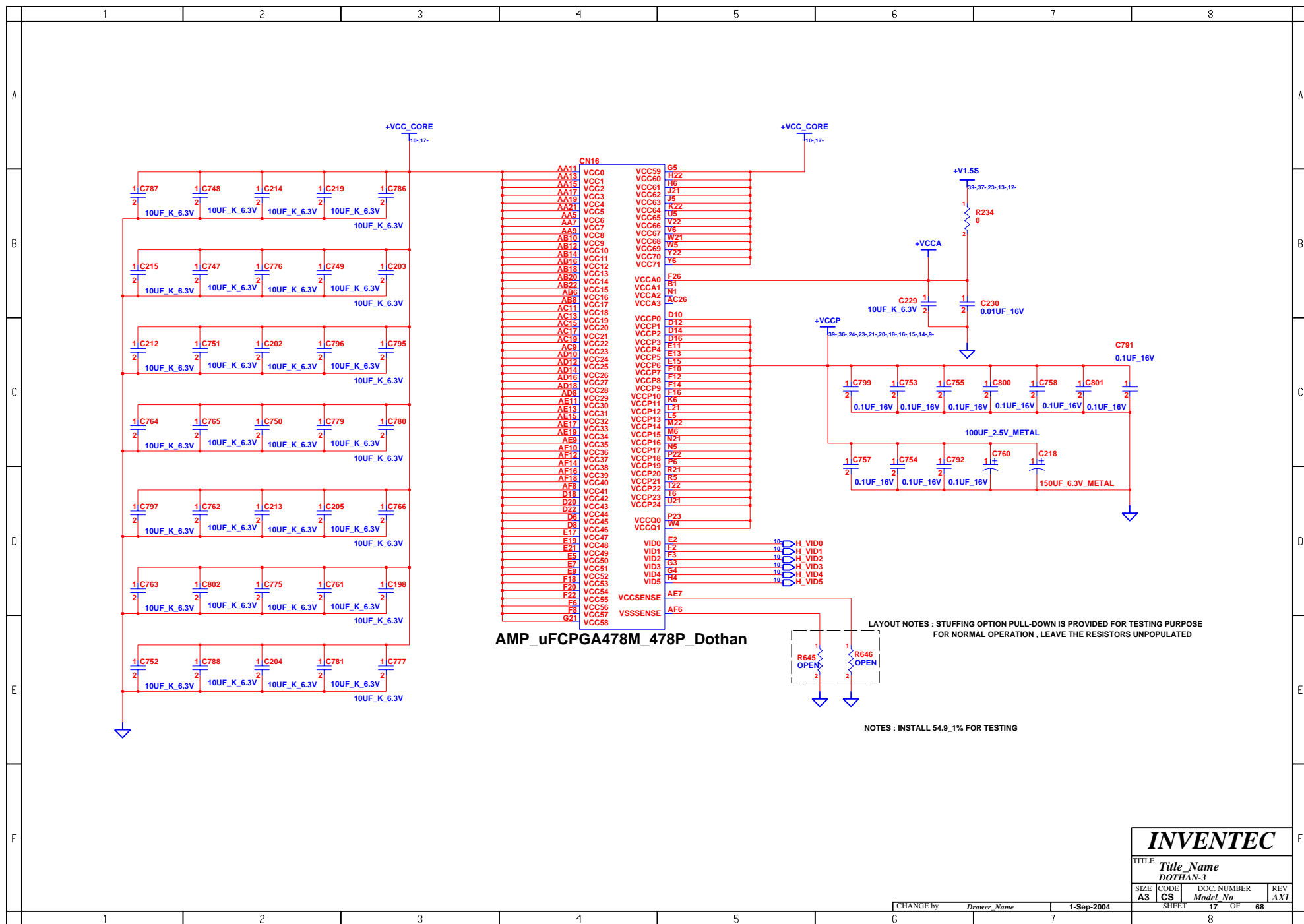
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TITLE			
Title Name			
DOTHAN-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawer Name* 10-Sep-2004

SHEET 16 OF 68





**INVENTEC**

TITLE			
Title Name			
DOTHAN-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

SHEET 17 OF 68

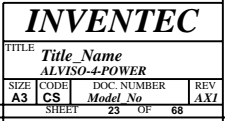






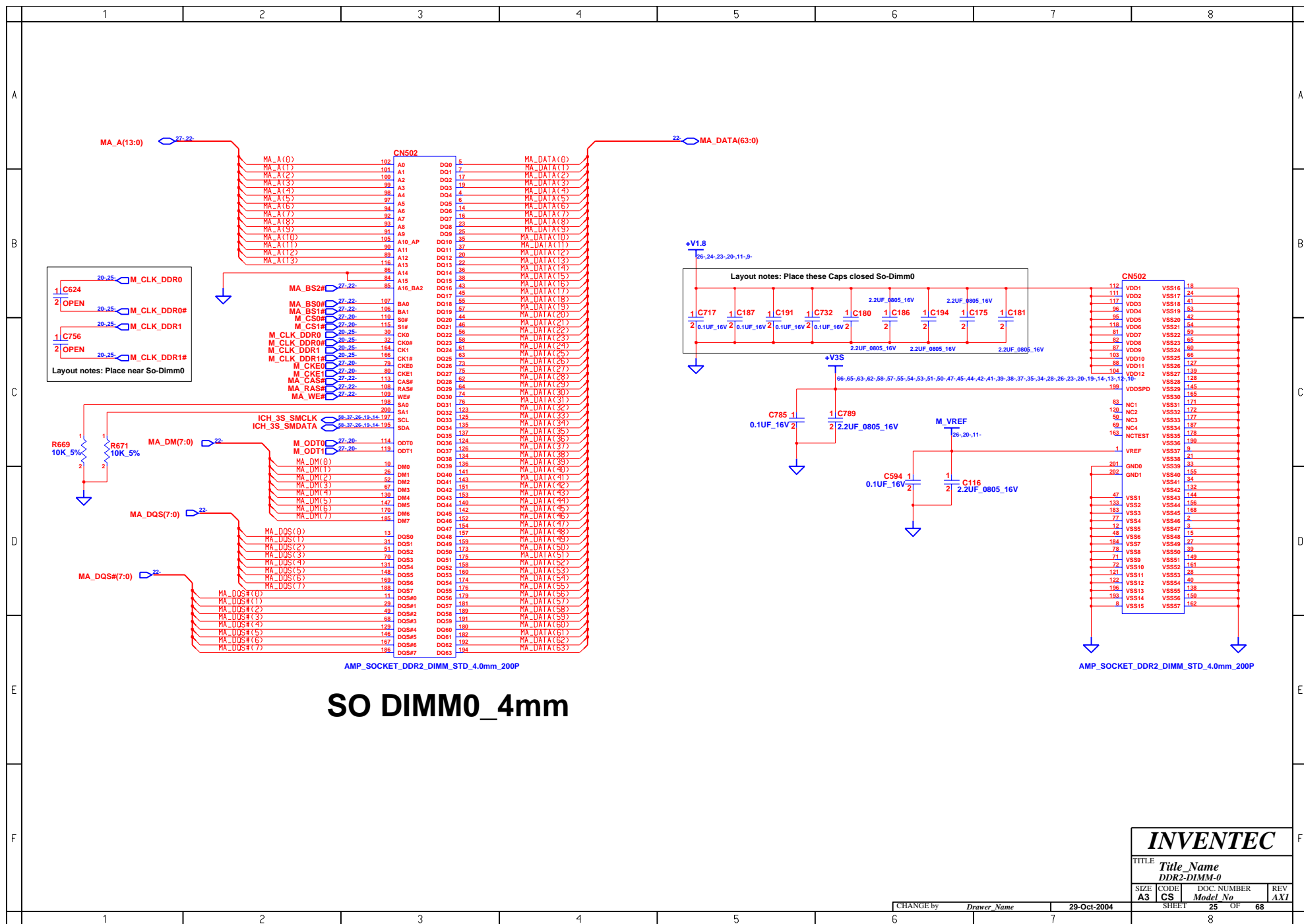


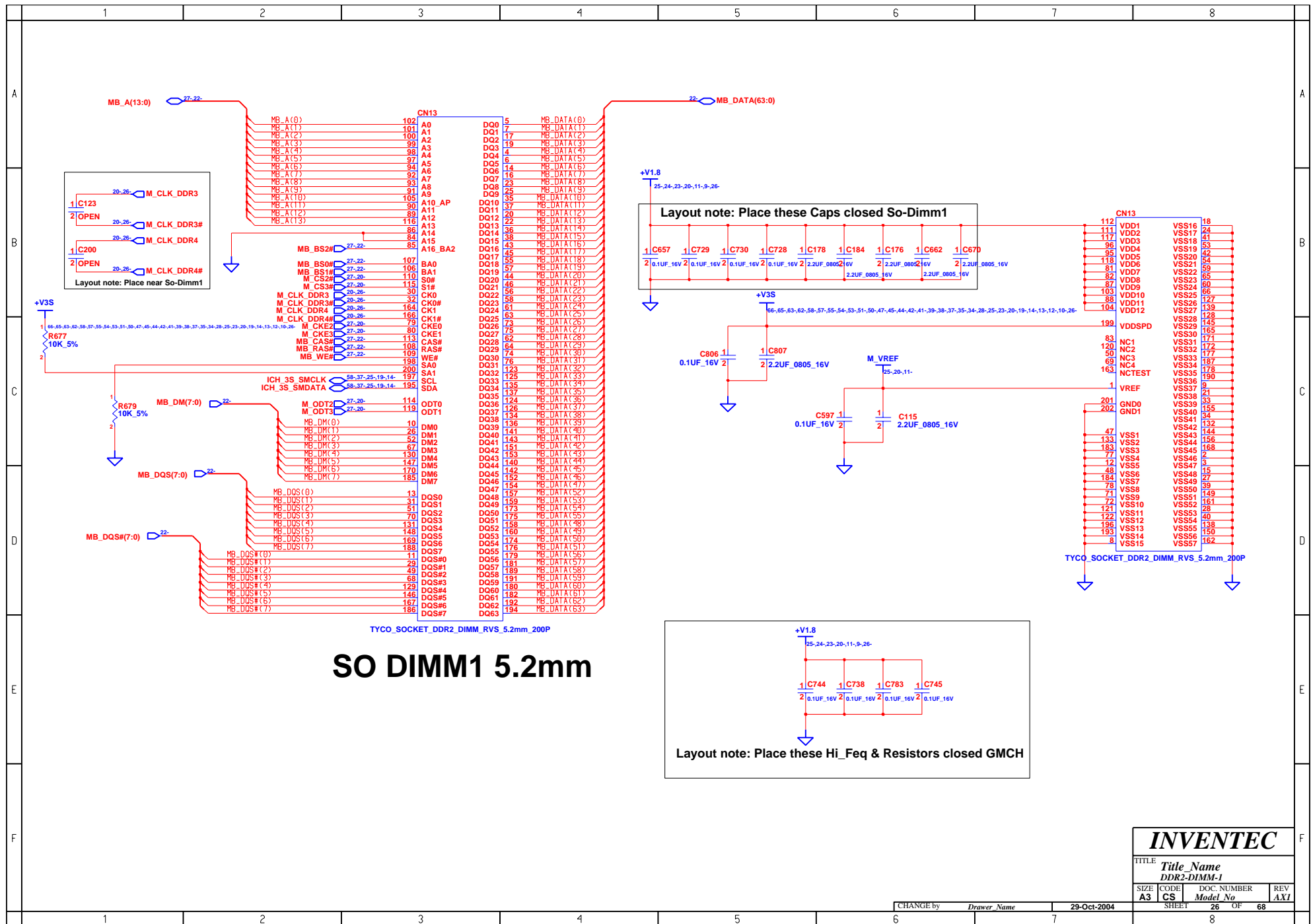


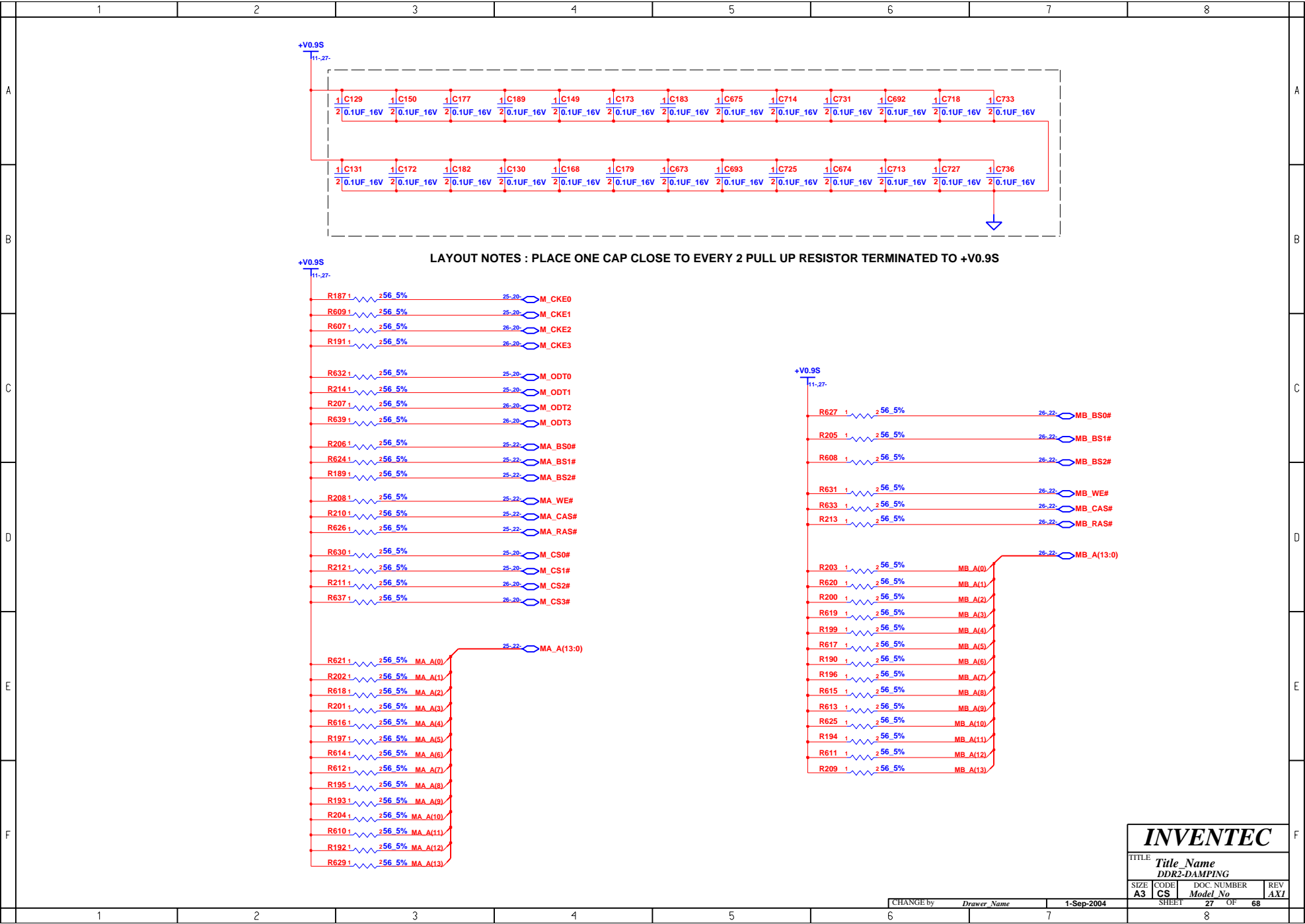








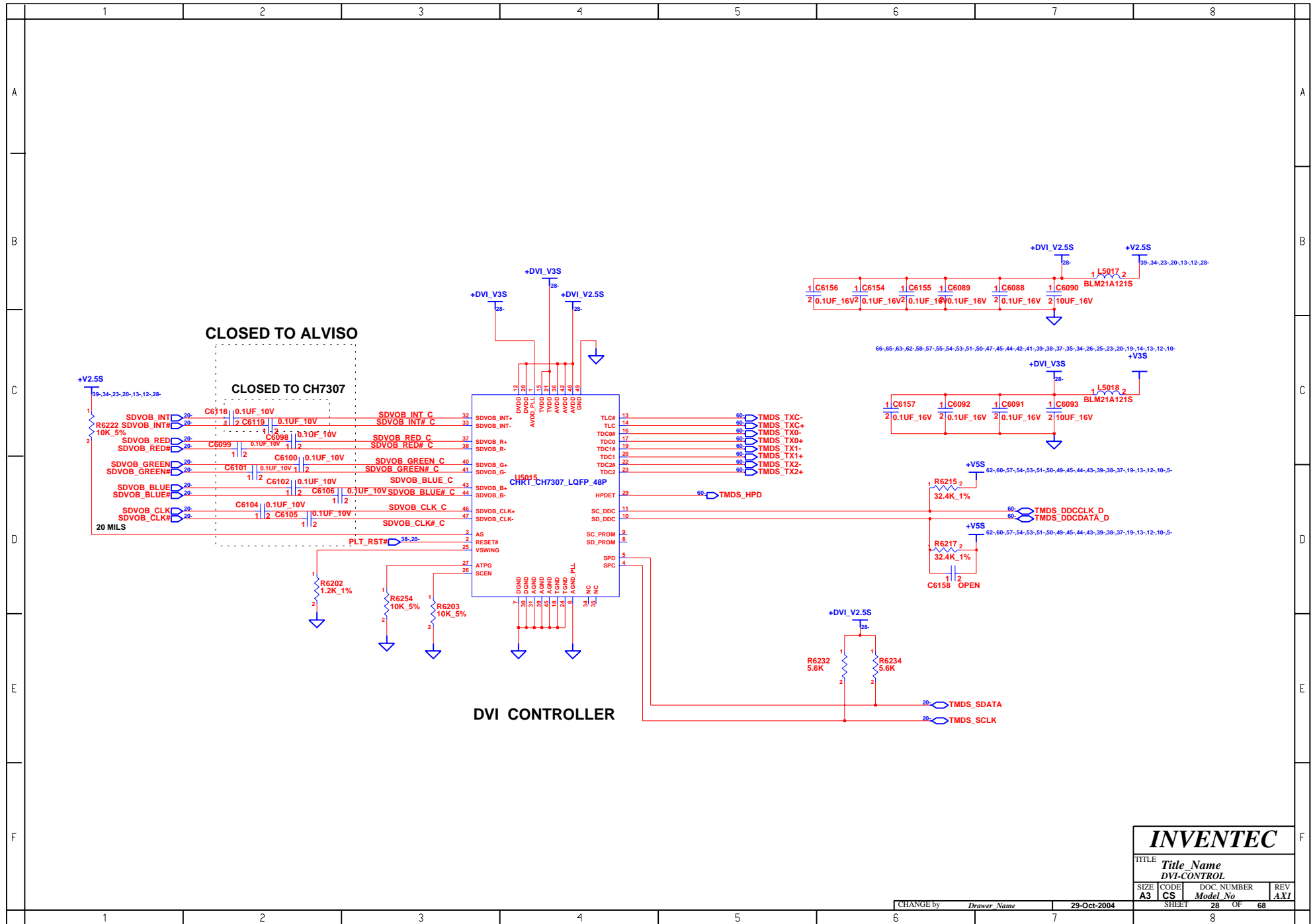




**INVENTEC**

TITLE			
Title Name			
DDR2-DAMPING			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		27	OF 68

CHANGE by *Drawer Name* 1-Sep-2004



	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  
Title\_Name  
ATI-M24-P-3

SIZE  
A3

CODE  
CS

DOC. NUMBER  
Model\_No

REV  
AXI

SHEET 29 OF 68

	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 <i>Title_Name</i> <i>ATI-M24-P-4</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <i>AXI</i>
CHANGE by <i>Drawer Name</i>		1-Sep-2004	
SHEET		30	OF 68

	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 <i>Title Name</i>			
VGA DAMPING RESISTOR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		31	OF 68

CHANGE by *Drawer Name* 27-Sep-2003

	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 Title_Name BLANK			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by Drawer Name		1-Sep-2004	
SHEET		32	OF 68



	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  
Title Name  
VIDEO RAM-2

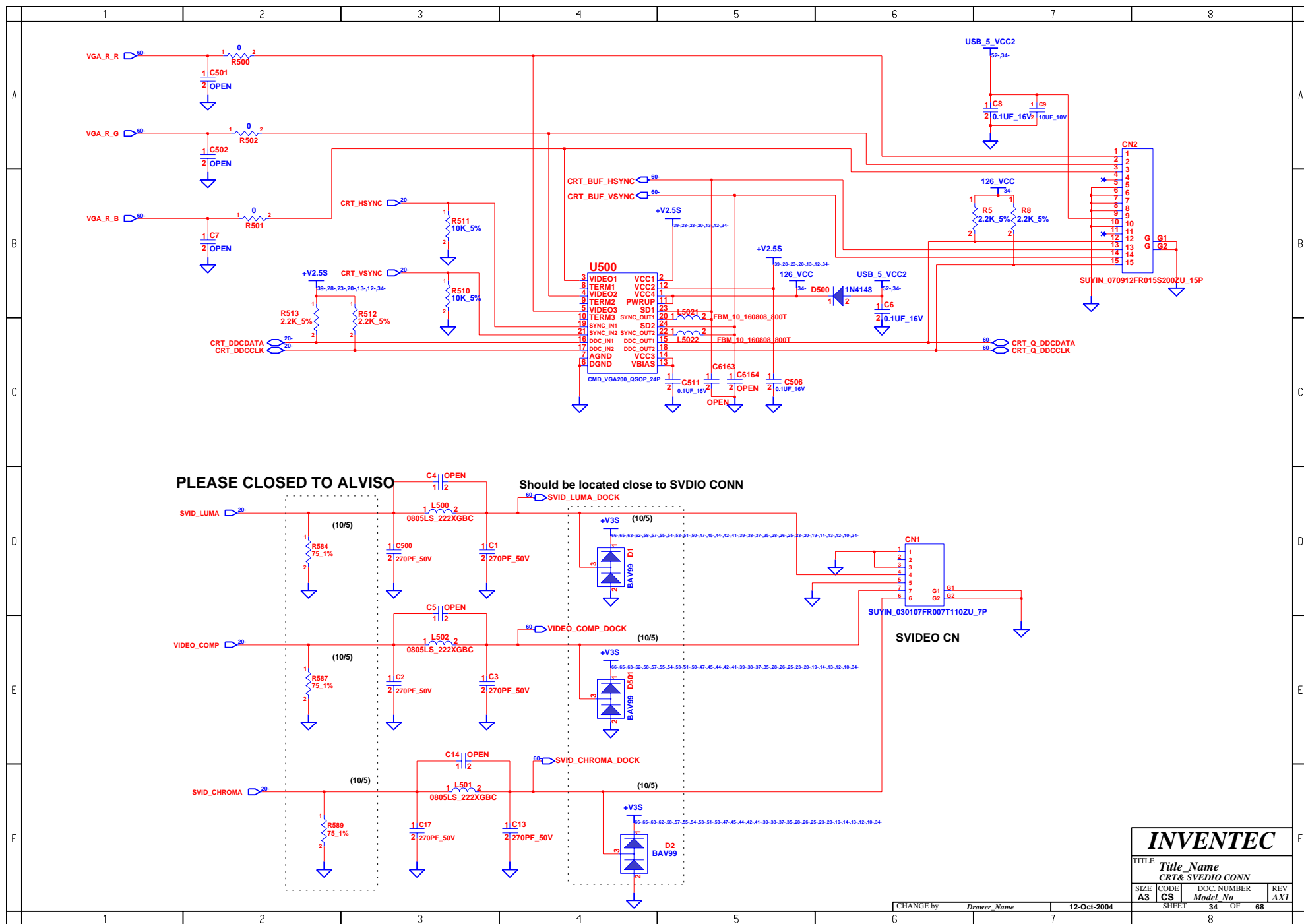
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A3

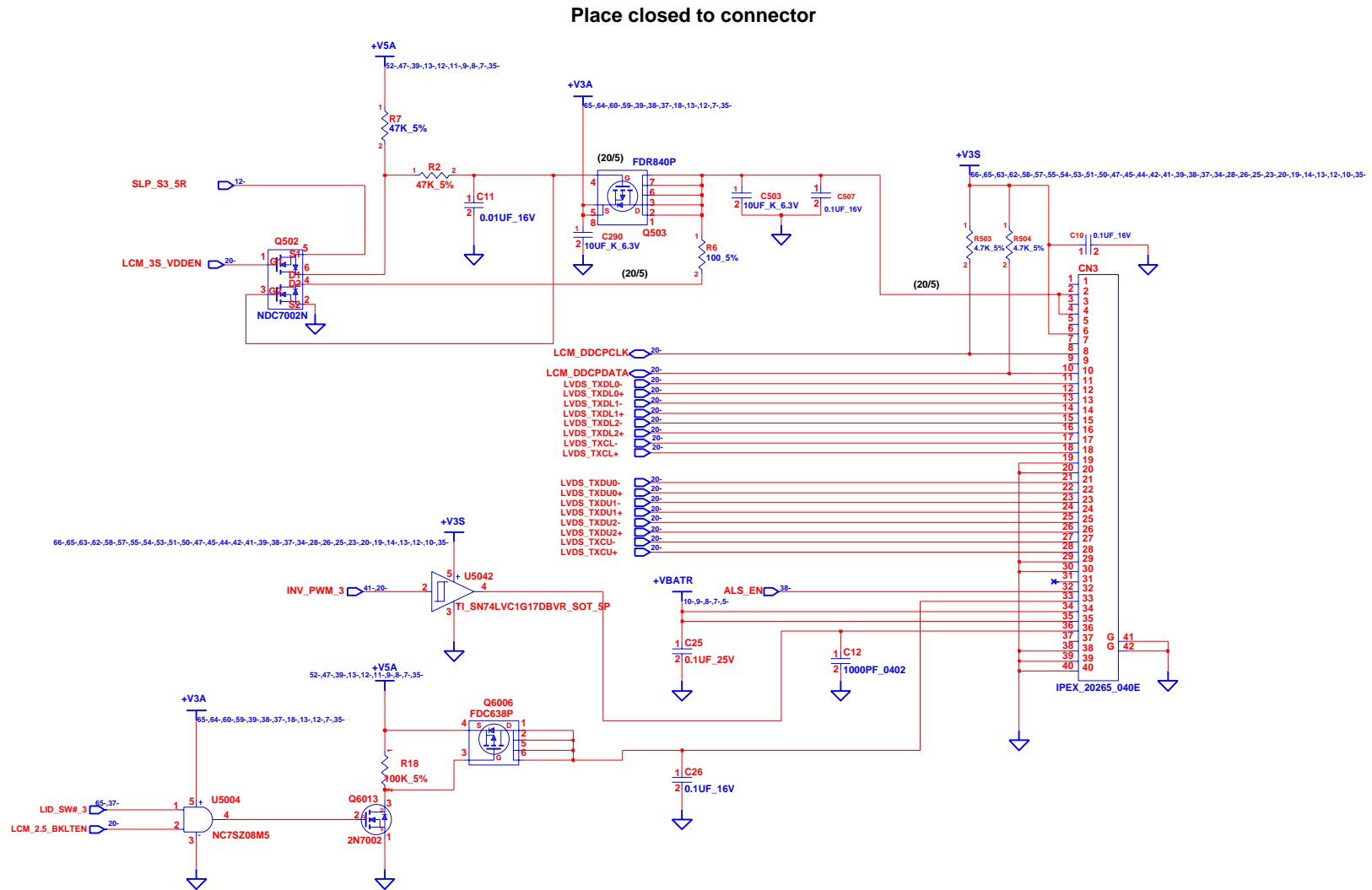
CODE  
CS

DOC. NUMBER  
Model No

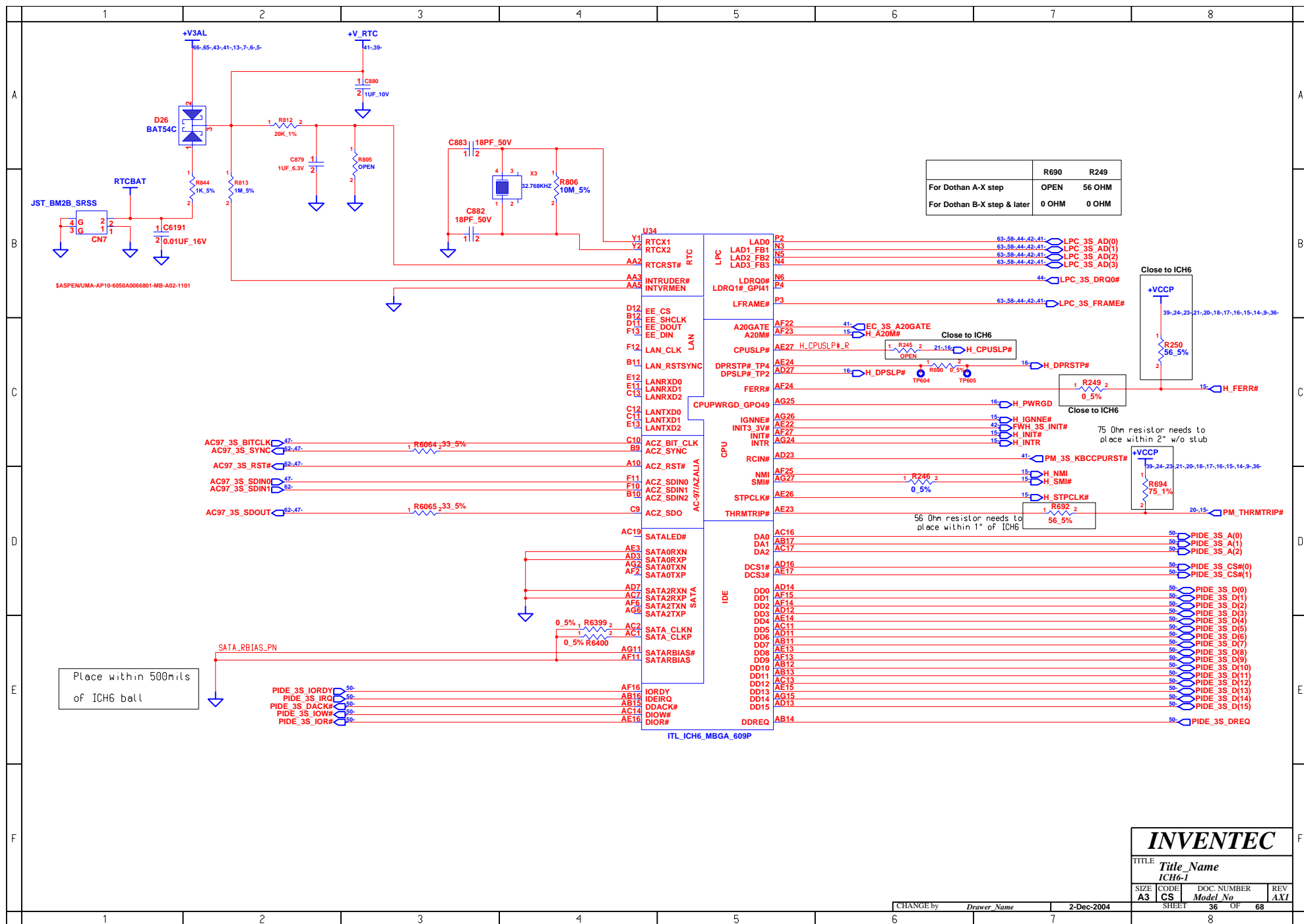
REV  
AXI

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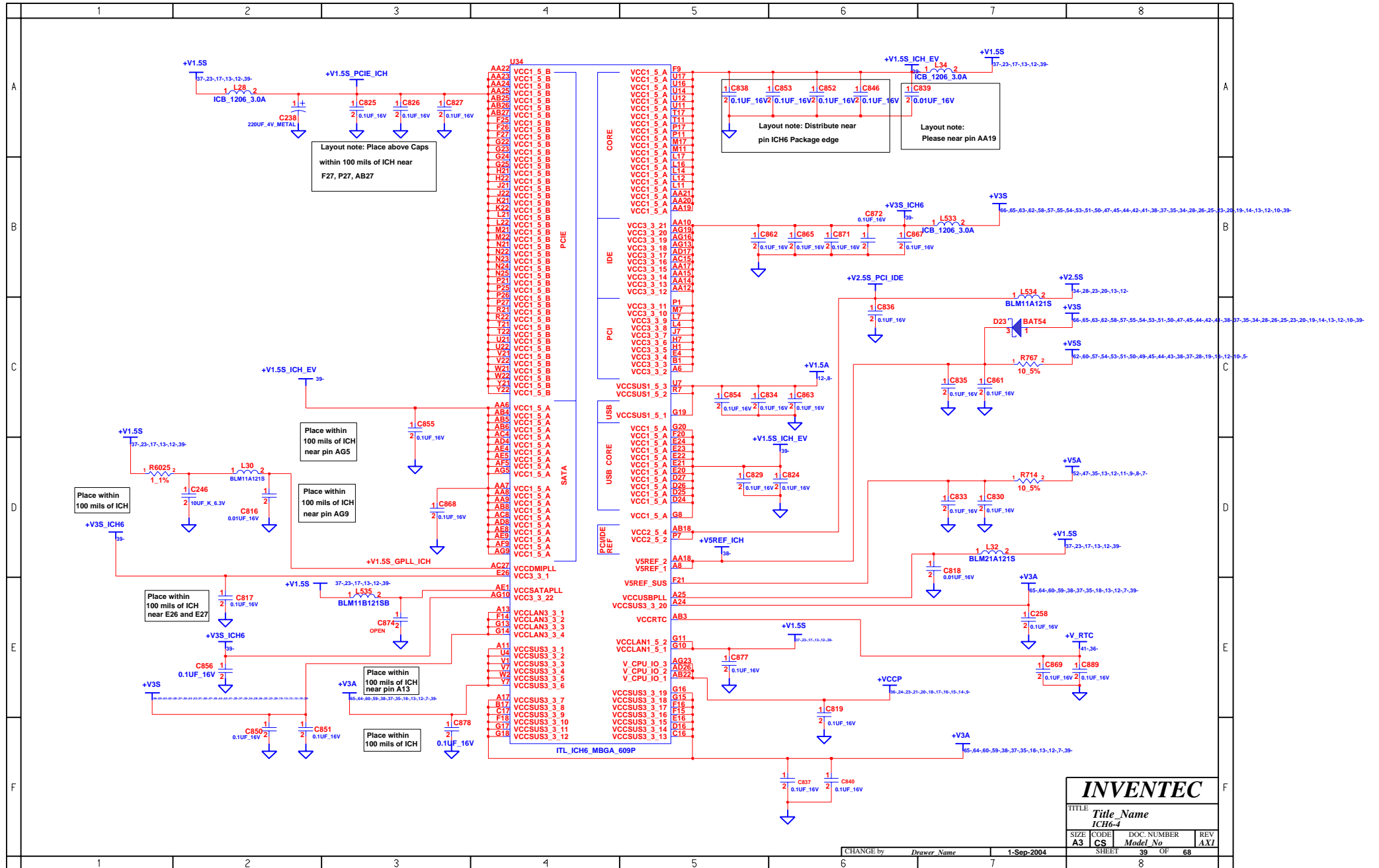


INVENTEC			
TITLE Title Name LCD CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by		1-Dec-2004	
SHEET		35	OF 68









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

U34

E27

V6

Y27

Y26

Y23

W7

W25

W24

W23

W1

V4

V27

V26

V23

U25

U24

U23

U19

U13

T7

T26

T23

T16

T15

T14

T13

T12

L1

R4

R25

R24

R23

R17

R16

R15

R14

R13

R12

R11

P22

P16

P15

P14

P13

P12

N7

N17

N16

N15

N14

N13

N12

N11

N1

M4

M27

M26

M23

M16

M15

M14

M13

M12

L25

L24

L23

L15

L13

K7

K27

K26

K23

K1

J5

J24

J23

H27

H26

H23

G9

G7

G21

G12

G1

VSS172

VSS171

VSS170

VSS169

VSS168

VSS167

VSS166

VSS165

VSS164

VSS163

VSS162

VSS161

VSS160

VSS159

VSS158

VSS157

VSS156

VSS155

VSS154

VSS153

VSS152

VSS151

VSS150

VSS149

VSS148

VSS147

VSS146

VSS145

VSS144

VSS143

VSS142

VSS141

VSS140

VSS139

VSS138

VSS137

VSS136

VSS135

VSS134

VSS133

VSS132

VSS131

VSS130

VSS129

VSS128

VSS127

VSS126

VSS125

VSS124

VSS123

VSS122

VSS121

VSS120

VSS119

VSS118

VSS117

VSS116

VSS115

VSS114

VSS113

VSS112

VSS111

VSS110

VSS109

VSS108

VSS107

VSS106

VSS105

VSS104

VSS103

VSS102

VSS101

VSS100

VSS99

VSS98

VSS97

VSS96

VSS95

VSS94

VSS93

VSS92

VSS91

VSS90

VSS89

VSS88

VSS87

F4

F22

F19

F17

E25

E19

E18

E15

E14

D22

D20

D18

D14

D13

D10

D1

C4

C22

C20

C18

C14

B25

B24

B23

B21

B19

B15

B13

AG7

AG3

AG22

AG20

AG17

AG14

AG12

AG1

AF7

AF3

AF26

AF12

AF10

AF1

AE6

AE25

AE21

AE2

AE12

AE11

AE10

AD6

AD24

AD2

AD18

AD15

AD10

AD1

AC3

AC6

AC26

AC24

AC23

AC22

AC10

AB9

AB7

AB2

AB19

AB10

AA1

AA4

AA16

AA13

AA11

A9

A7

A4

A26

A23

A21

A19

A15

A12

A1

ITL\_ICH6\_MBG\_609P

INVENTEC

TITLE

Title\_Name

ICH6-5

SIZE

A3

CODE

CS

DOC. NUMBER

Model No

REV

AXI

SHEET

40

OF

68

CHANGE by

Drawer Name

1-Sep-2004

1

2

3

4

5

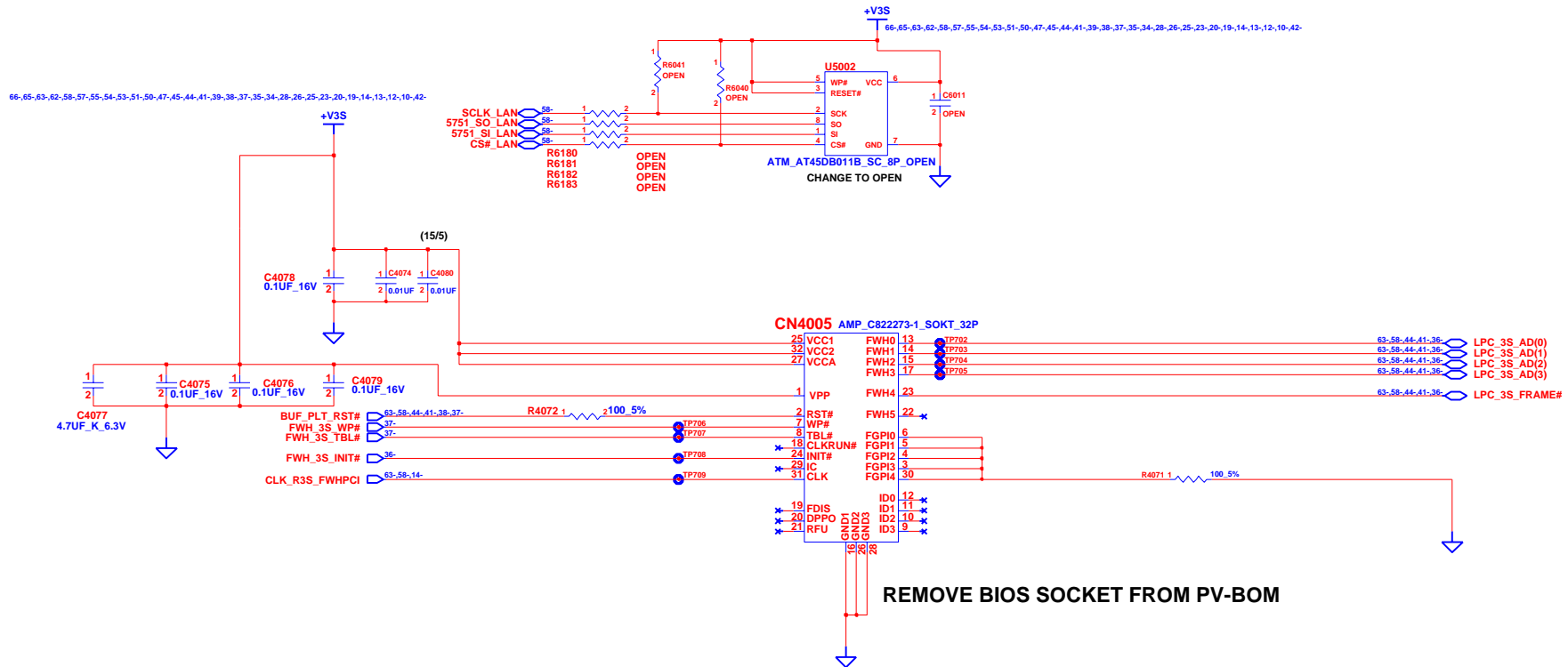
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7

8



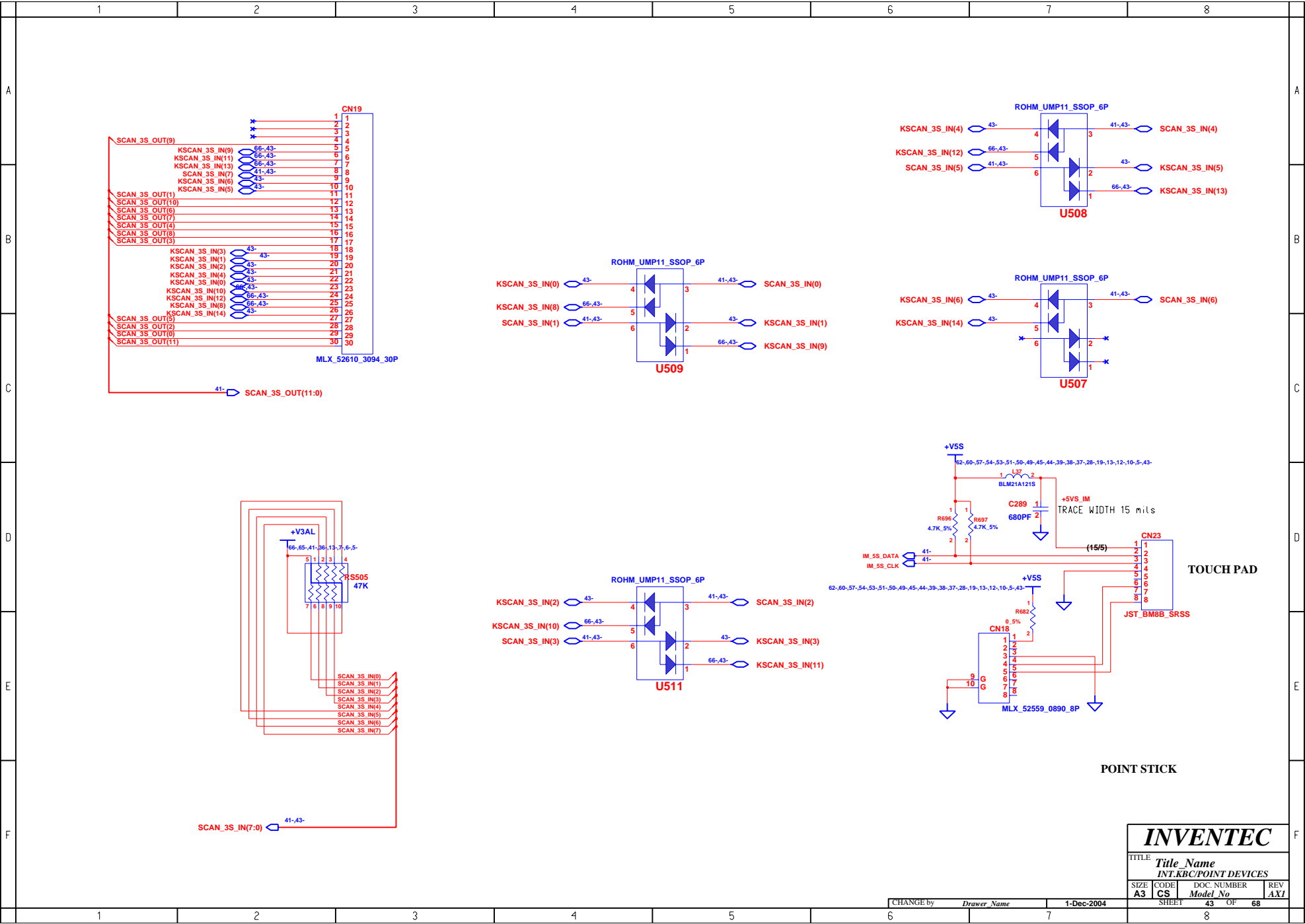




**INVENTEC**

TITLE			
Title_Name			
FWH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		42 OF	68

CHANGE by Drawer Name 1-Dec-2004



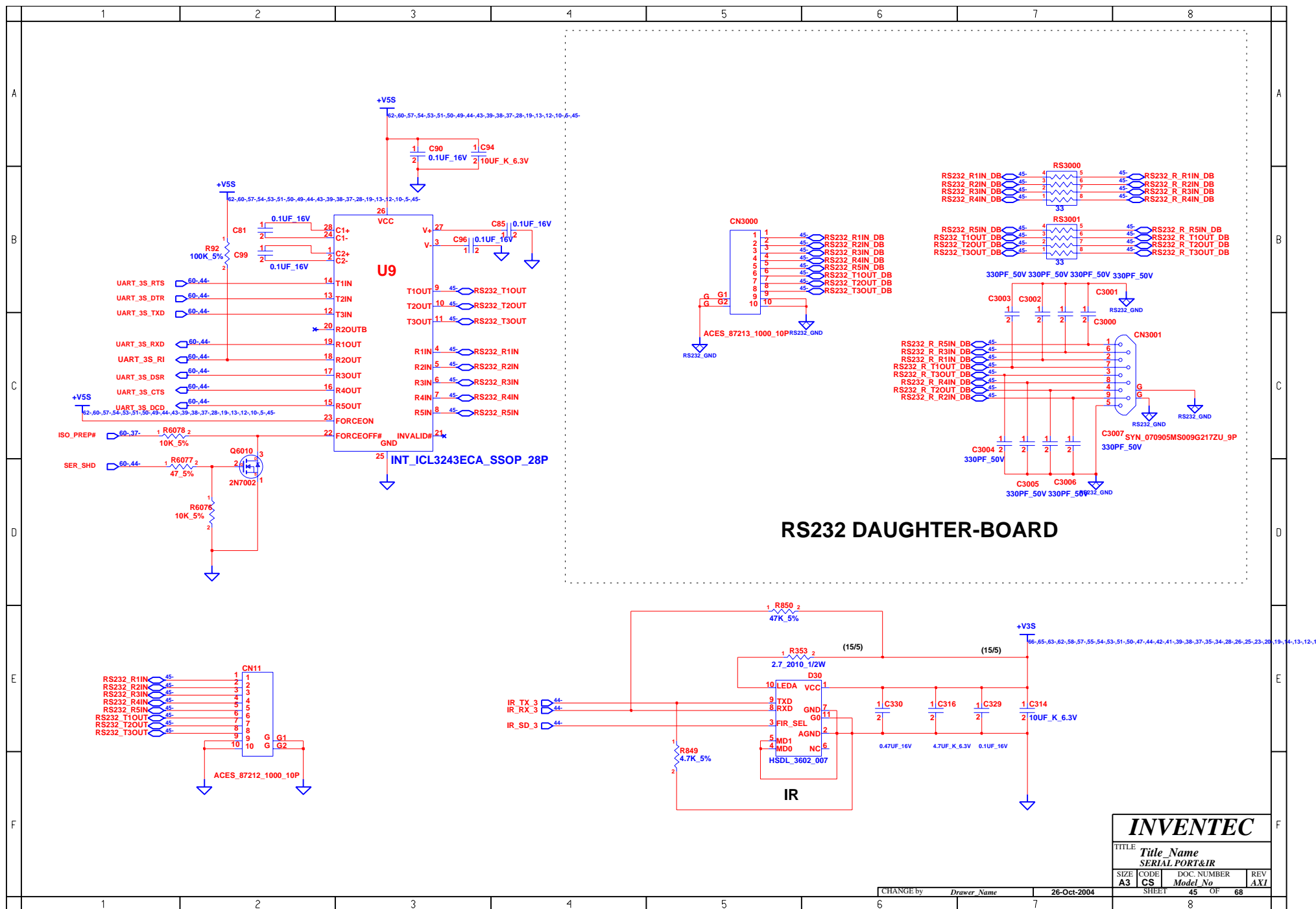
INVENTEC

TITLE			
Title Name			
INT.KBC/POINT DEVICES			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by: Drawer Name 1-Dec-2004

SHEET 43 OF 68





	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	

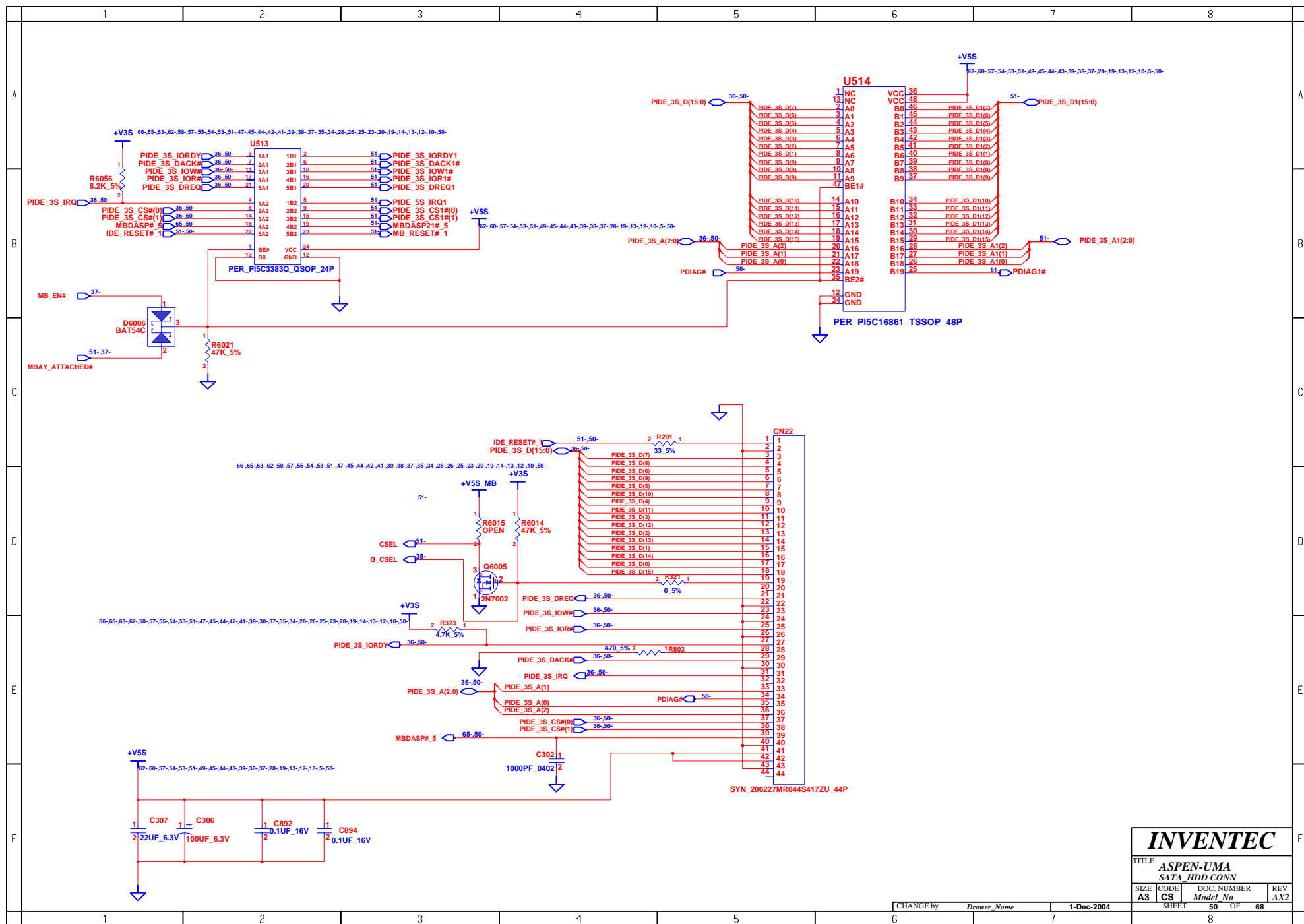
INVENTEC			
TITLE <i>Title Name</i> PARALLER PORT			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AXI
SHEET 46		OF 68	











**INVENTEC**

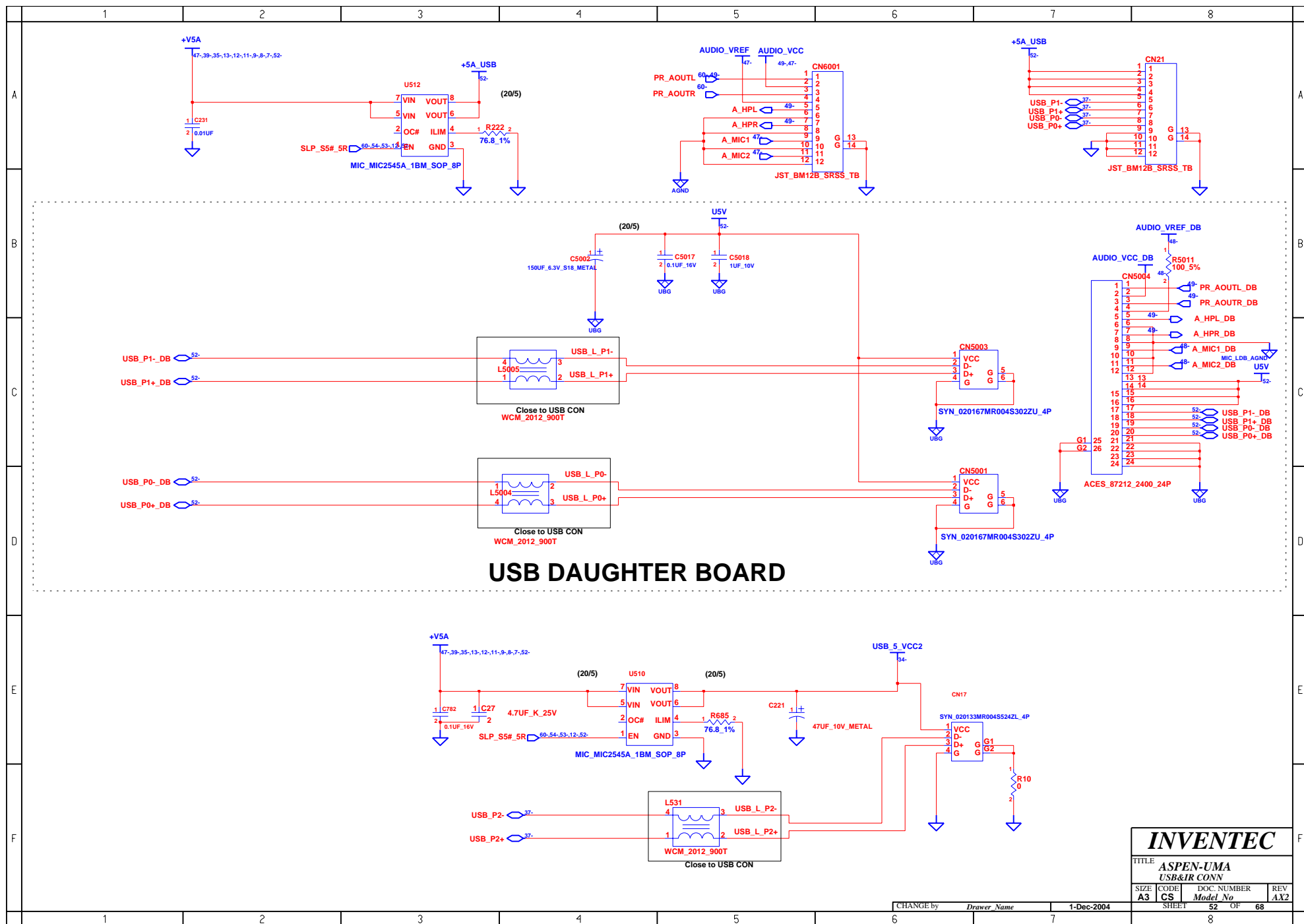
TITLE  
ASPEN-UMA  
SATA HDD CONN

SIZE CODE DOC. NUMBER REV  
A3 CS Model No AX2

CHANGE by Drawer Name 1-Dec-2004

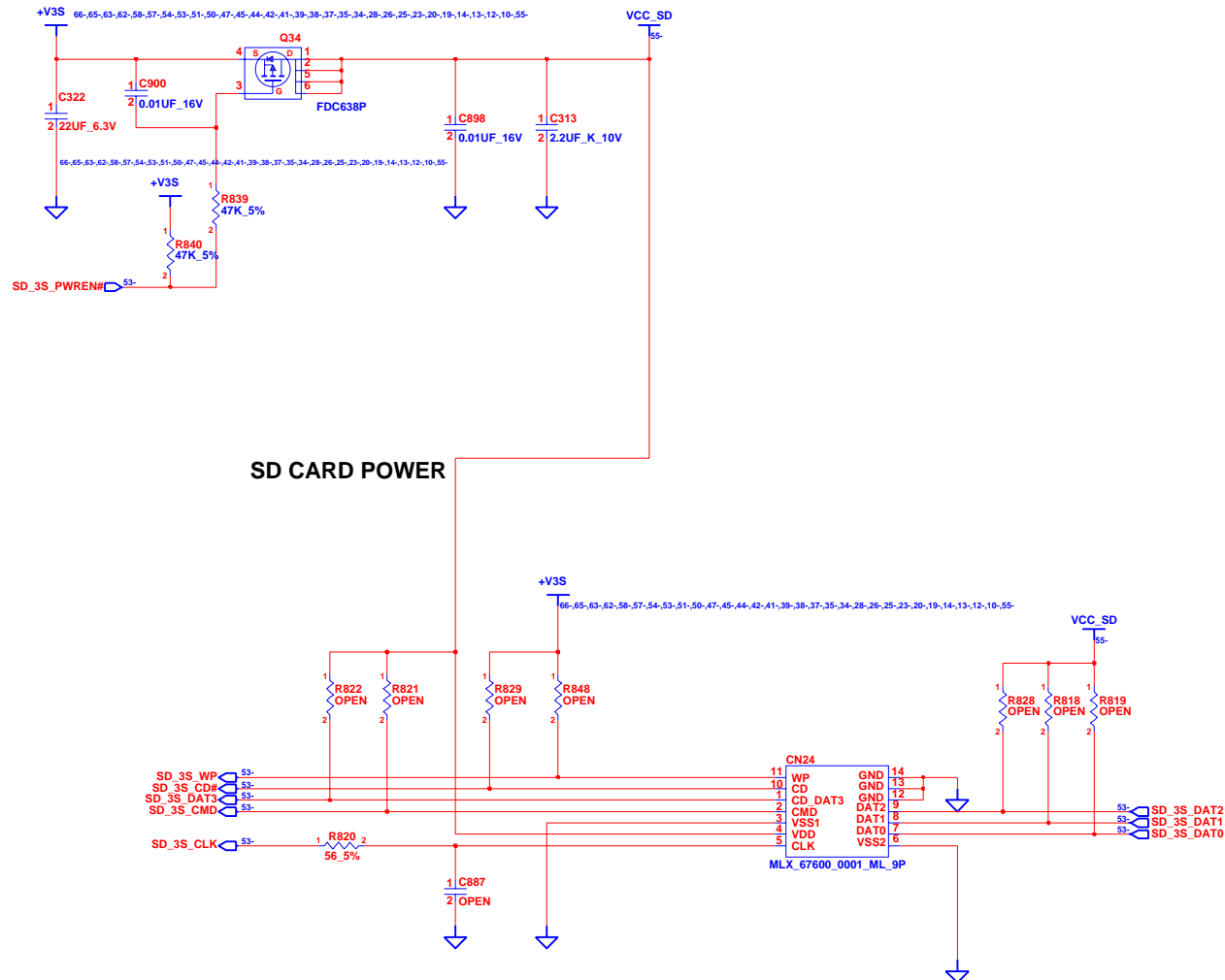
SHEET 50 OF 68











INVENTEC			
TITLE ASPEN-UMA SD CARD CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AX2
SHEET 55 OF 68			

CHANGE by *Drawer Name* 1-Dec-2004

	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

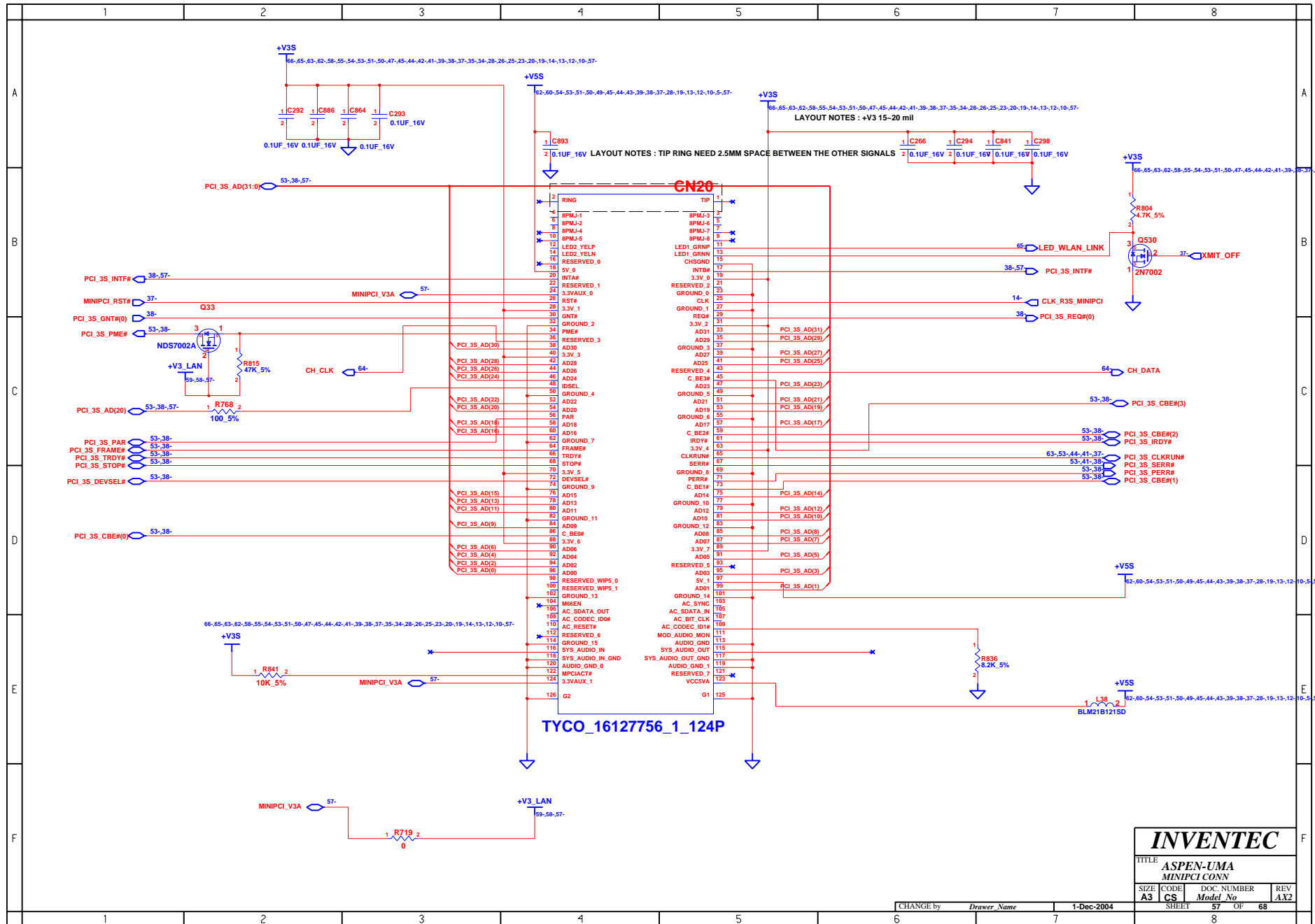
TITLE ASPEN-UMA  
DAUGHTER BOARD CNN

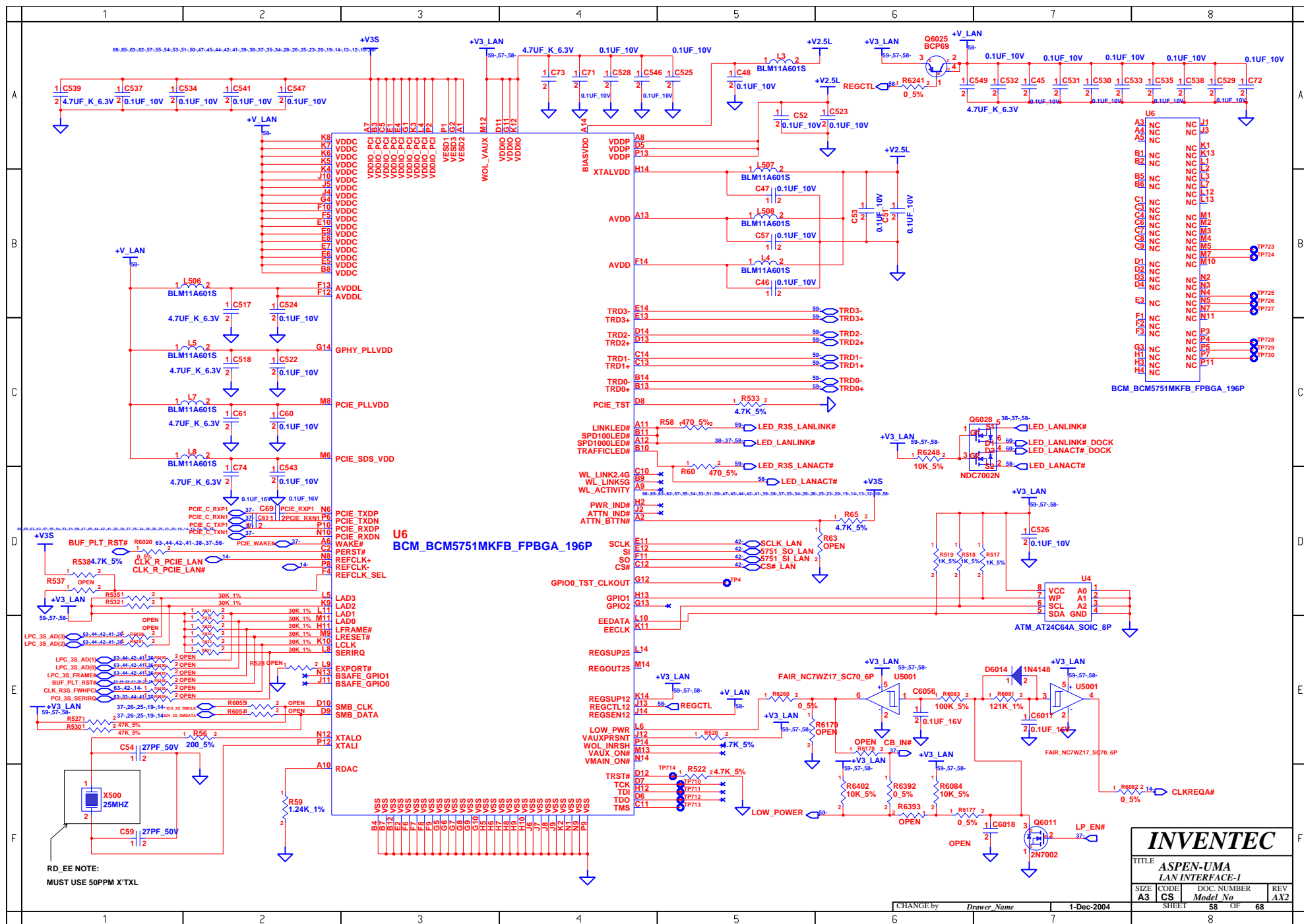
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A3	CS	Model No	AX2

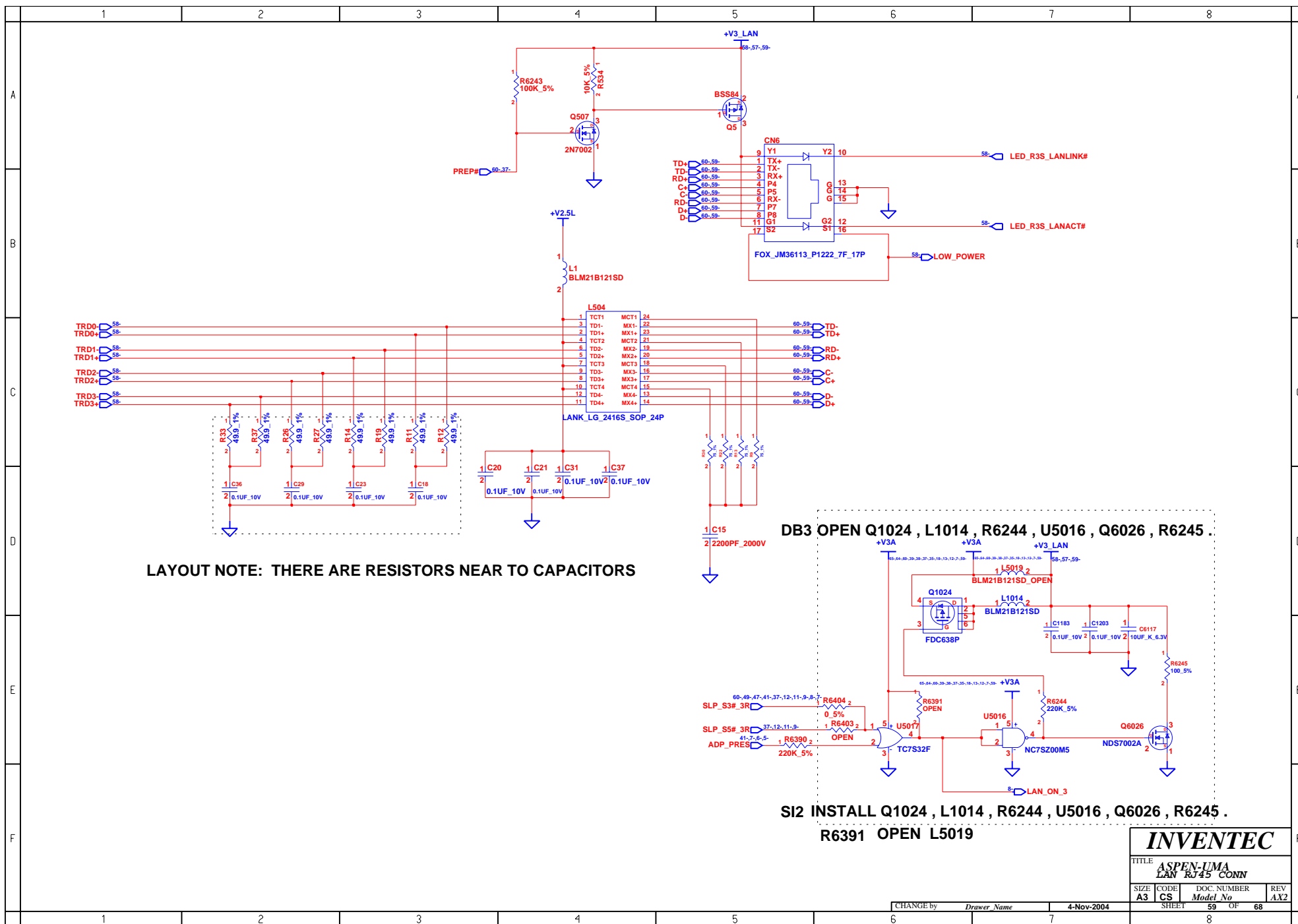
CHANGE by Drawer Name 30-Aug-2004

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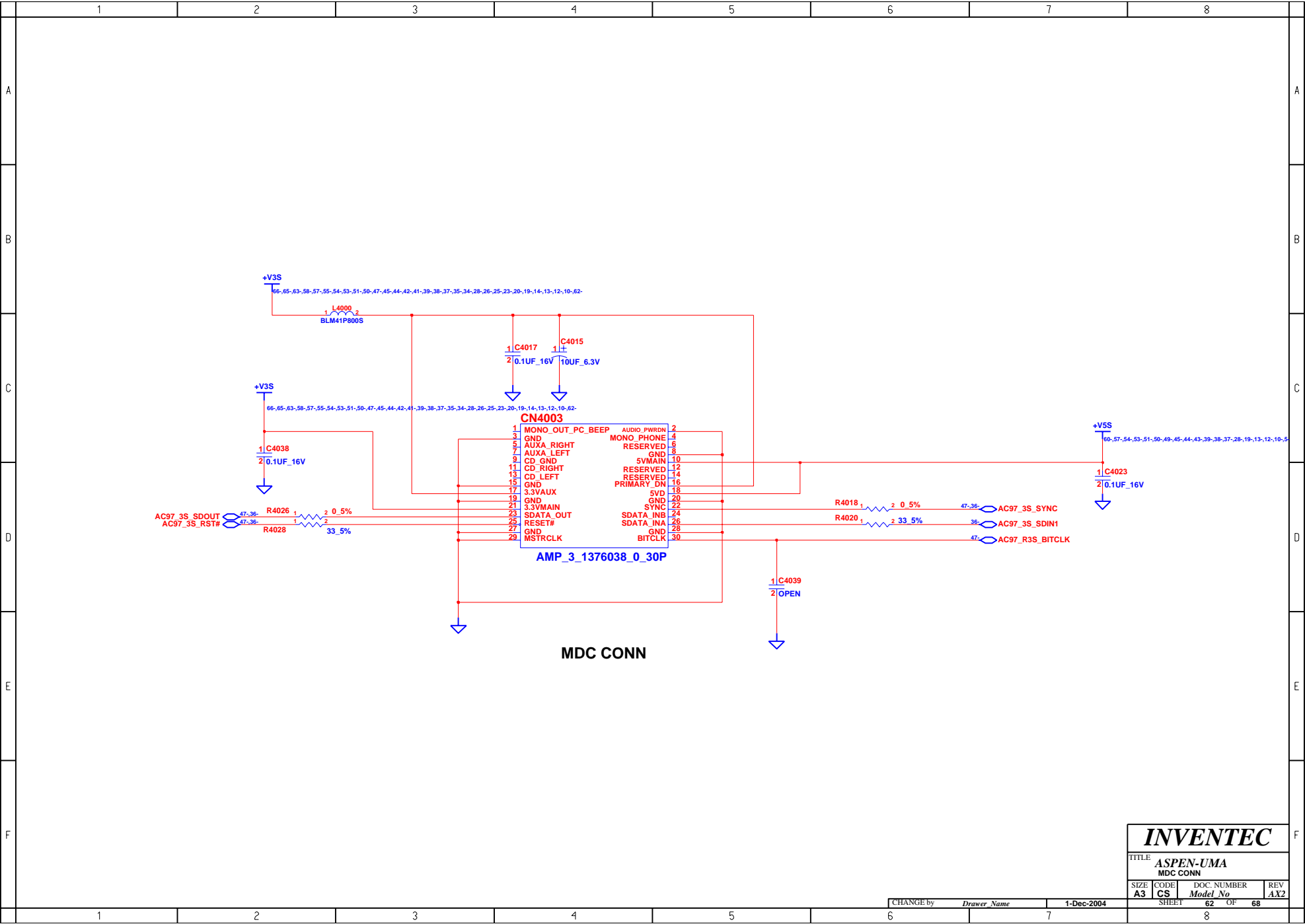


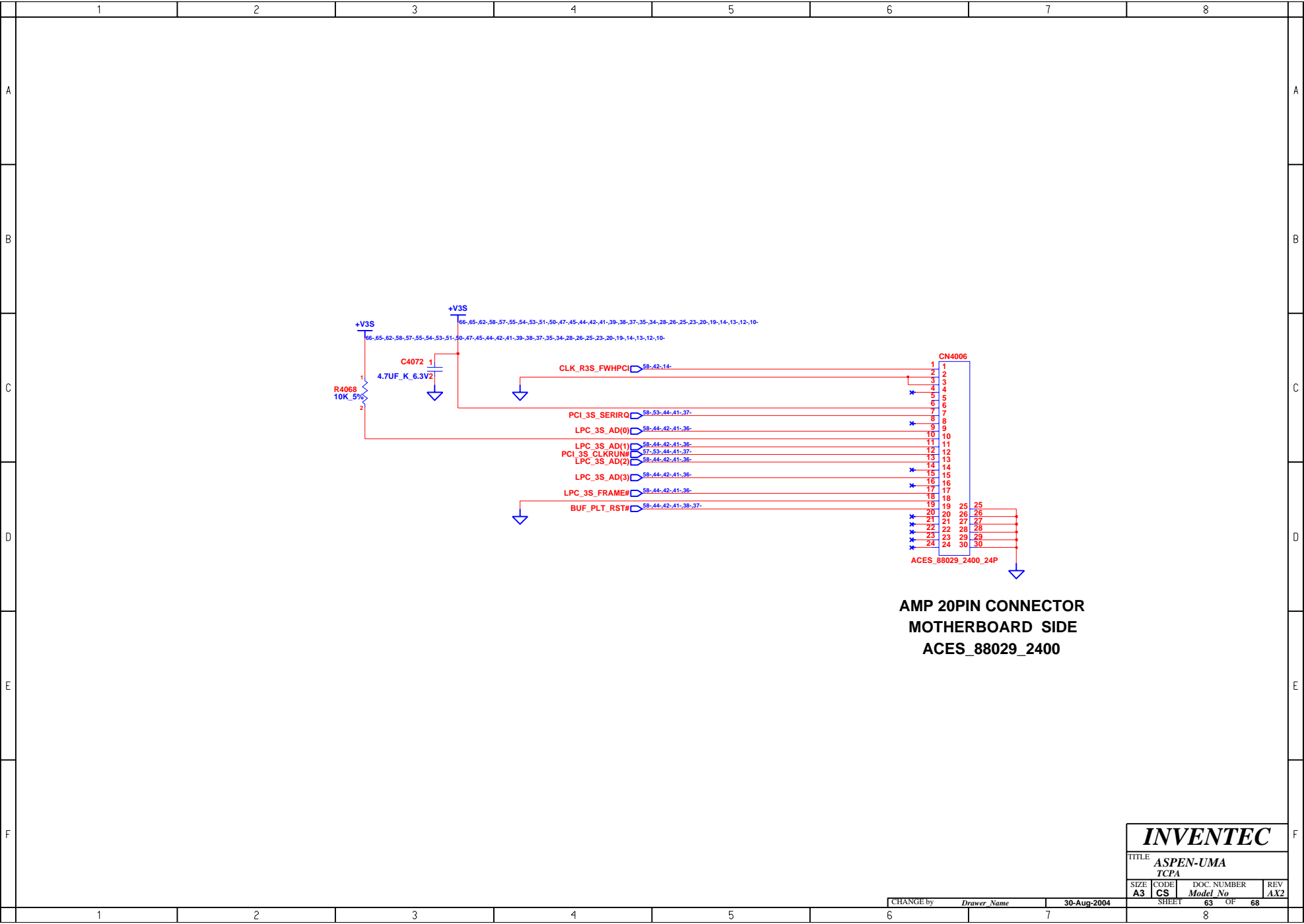












**INVENTEC**

TITLE  
**ASPEN-UMA**  
**TCPA**

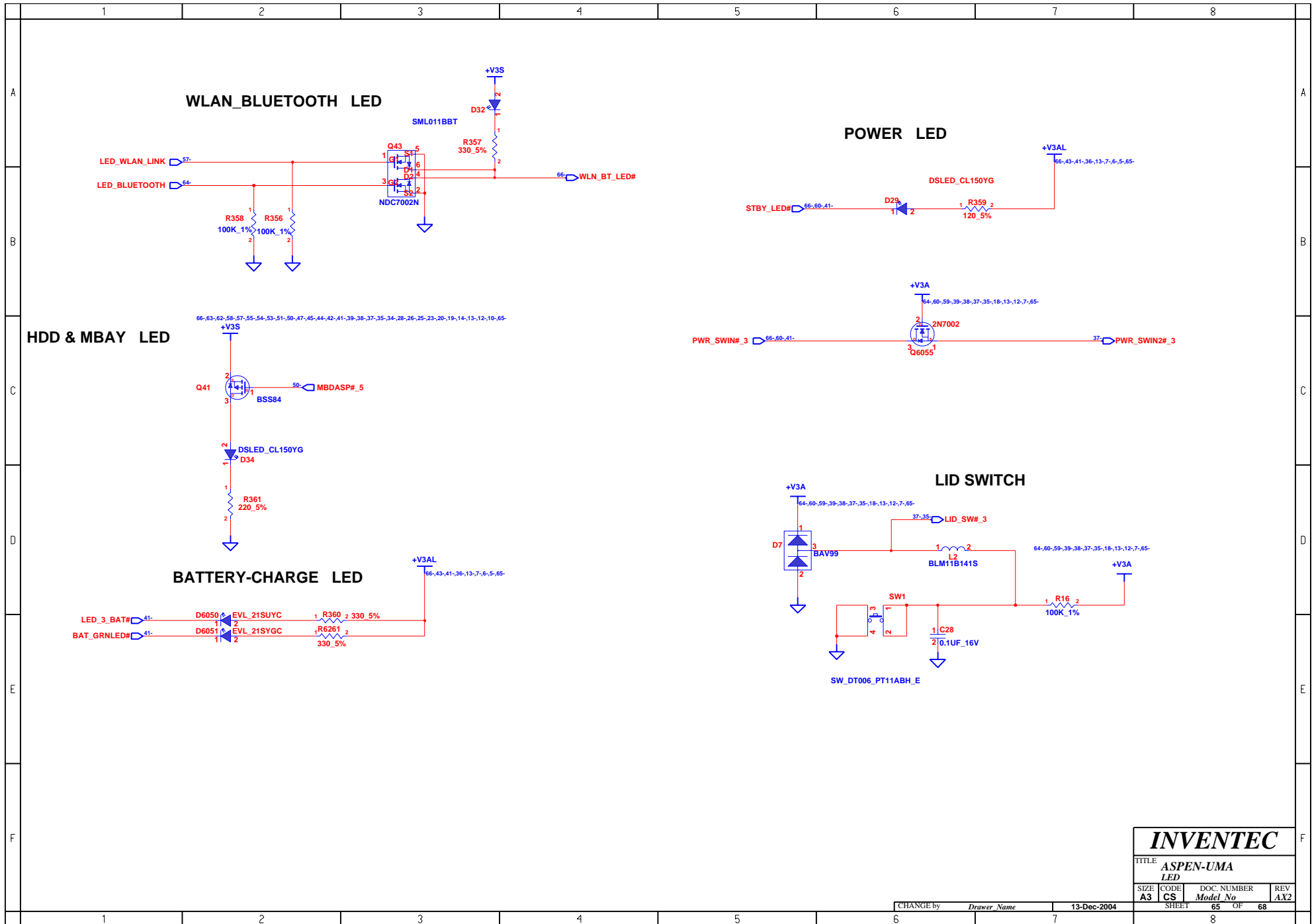
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX2

CHANGE by *Drawer Name* 30-Aug-2004

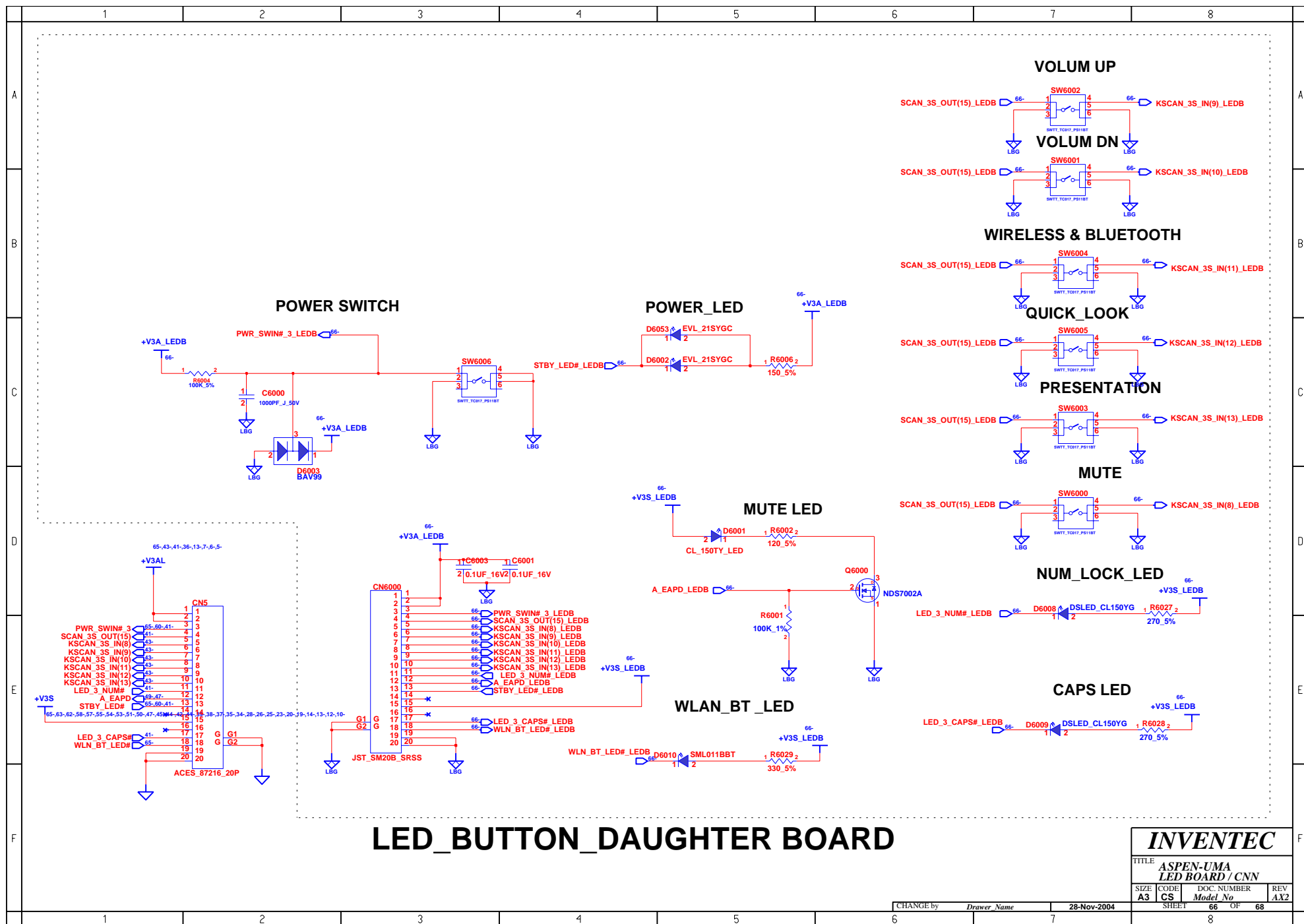
SHEET 63 OF 68







INVENTEC			
TITLE ASPEN-UMA LED			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AX2
CHANGE by Drawer Name		13-Dec-2004	
SHEET		65	OF 68



# LCD CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40

# USB CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12

# TOUCHPAD CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12

# POINT STICK

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8

# MIC CABLE

1	1	1	1
2	2	2	2

# SPEAKER CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4

# keyboard

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30

# AUDIO CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12

# SERIAL CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12

# SW/B CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20

# BLUETOOTH CABLE

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8

# PATA&SATA

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50

INVENTEC

TITLE ASPEN-UMA  
CABLE

SIZE A3 CODE CS DOC. NUMBER REV AX2  
SHEET 67 OF 68

CHANGE by Drawer Name 30-Aug-2004

IEC / HP Aspen_UMA MV Schematic Changes								December 10, 2004
HP Confidential Information						Open Items		
Item #	Project	Component / Subsection	PG. #	Description of Requested Change	Date Open+F7 / Closed	Requested By / Owner	Status / Aspen	Aspen FBK/Date
1	UMA	V2.5L	8	Improve the RGB signal waveform on CRT monitor R6247 from 909k change to 1M_1% 60130B10049T	2004/11/17	IEC	Open	sch1117 done
2	UMA	ALVISO	23	Improve the S-Video & RGB signal waveform for S-Video & RGB monitor. 1.L5014 pin 1 C6059 change to 47UF capacitor (OXi cap). 2.L5015 pin 1 C6063 change to 47UF capacitor (OXi cap). 3.C216 change to 47UF capacitor (OXi cap). 4.Remove C6068.	2004/11/29	IEC	Open	sch1129 done
3	UMA	Power	11	Change U6064 +V0.9 limit regulator circuit for DDR2. Remove R640 , C734 , C195 , C735 , C196 , C193 add C6176 1uf , C6172 , C6173 , C6174 , C6175 10uf.	2004/11/29	HP	Open	sch1129 done
4	UMA	LED	66	1.Add LED D6053 EVL_21SYGC for machine ID recommend. 2.Change D6002 to EVL_21SYGC.	2004/11/29	HP	Open	sch1129 done
5	UMA	Switch Board	66	Change switch Board trace from Top side & Bottom side to internal layer a surface used GND to Cover it this change for safty ESD recommend.	2004/11/29	IEC	Open	sch1129 done
6	UMA	serial Board	45	Change Serial Board trace from Top side & Bottom side to internal layer a surface used GND to cover it this change for Safty ESD recommend.	2004/11/29	IEC	Open	sch1129 done
7	UMA	Power	7	Move D6048 , C6162 , R6283 placement this change for machine recommend.	2004/11/29	IEC	Open	sch1129 done
8	UMA	ICH-6	37	Change C882,C883 from 10pF to 18pF for RTC accuracy	2004/11/29	IEC	Open	sch1129 done
9	UMA	ALVISO ICH-6	23 23 36	For EMI recommend: 1.Add C6188,C6189,C6190 0.01uF_16V connect +V1.5S for EMI improve +V1.5S power plane. 2.Add C6185,C6186,C6187 0.01uF_16V connect +V1.8 for EMI improve +V1.8 power plane 3.Add C6191 0.01uF_16V connect CN7 RTCBAT to improve EMI noise.	2004/12/2	IEC	Open	sch1202 done
10	UMA	Power	11	Add two power via 30_16 on +V0.9S power rail.	2004/12/3	IEC	open	sch1203 done
11	UMA	Power	13	Aspen UMA uses a 2.5V rail,R6150 should be changed to 107K_1%, and R6152 should be changed to 57.6K_1%.	2004/12/10	HP	open	sch1210 done