

(13"/14")

Villemont 2010

(Montevina Intel-UMA)

DDR3-MV Build (A02)

2010.03.02

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN					TITLE			
CHECK					Villemont Intel UMA			
RESPONSIBLE								
SIZE = 3					SIZE	CODE	DOC. NUMBER	REV
FILE NAME : XXXX-XXXXXX-XX					A3	CS	1310A23446-0-MTR	A02
P/N XXXXXXXXXXXX					SHEET 1 OF 59			

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 6- Select & Battery CONN.
 7- System Power (+V3A/+V5A).
 8- System Power (+VCCP)
 9- BLANK.
 10- System Power (+V1.5) .
 11- CPU Power (+VCC_CORE).
 12- DDR Termination Voltage(+V0.75S).
 13- Power (Sleep: +V5S/+V3S/+V1.5S).
 14- Power (Sequence).

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 16- CPU Penryn-1.
 17- CPU Penryn-2.
 18- CPU Penryn-3.
 19- CPU Penryn-4 & XDP.
 20- Thermal & Fan.
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 23- N/B Cantiga-3.
 24- N/B Cantiga-4.
 25- N/B Cantiga-5.
 26- N/B Cantiga-6.
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 31- S/B ICH9-1.
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 33- S/B ICH9-3.
 34- S/B ICH9-4.
 35- S/B ICH9-5.
 36- KBC.
 37- SPI.

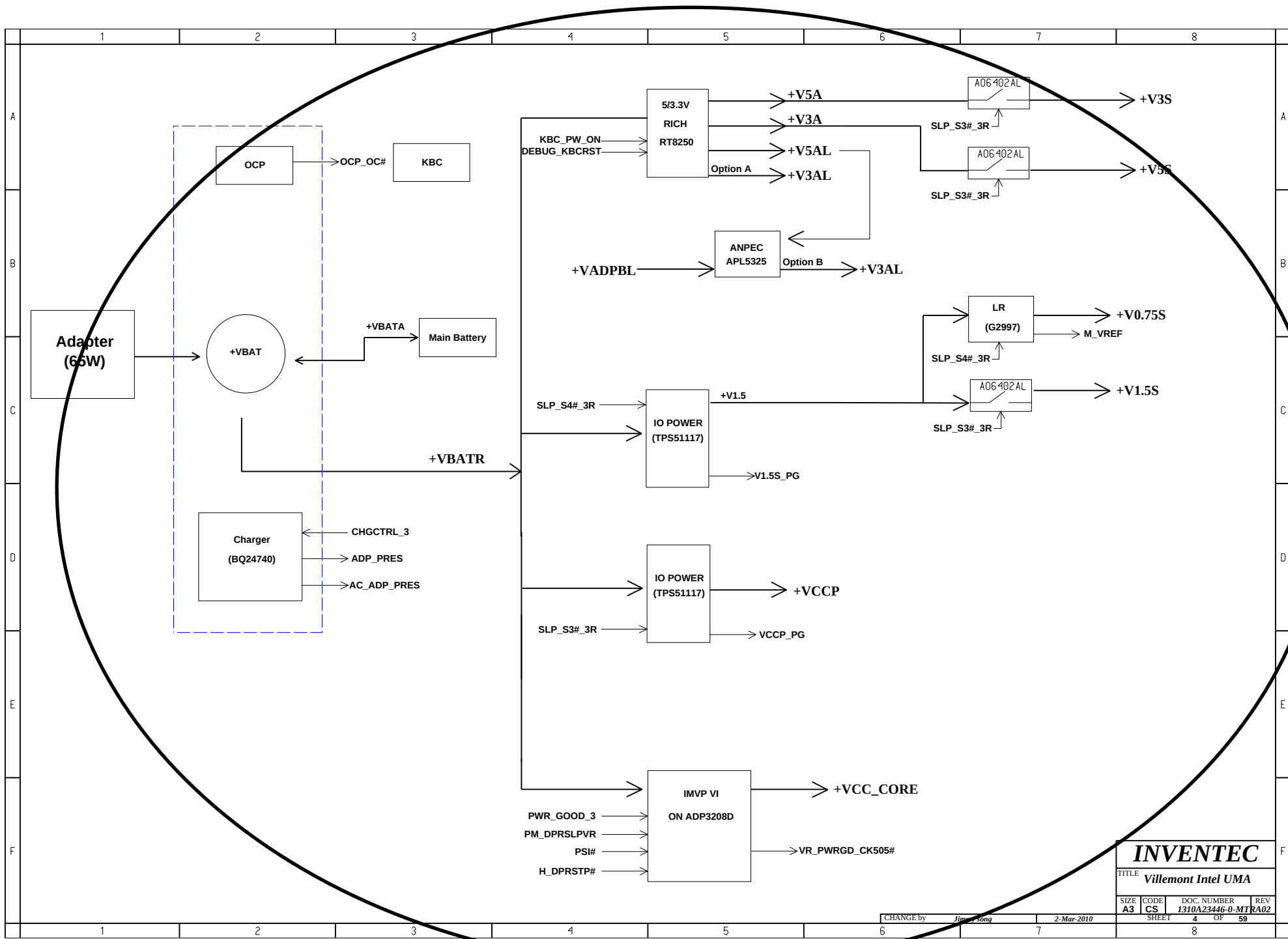
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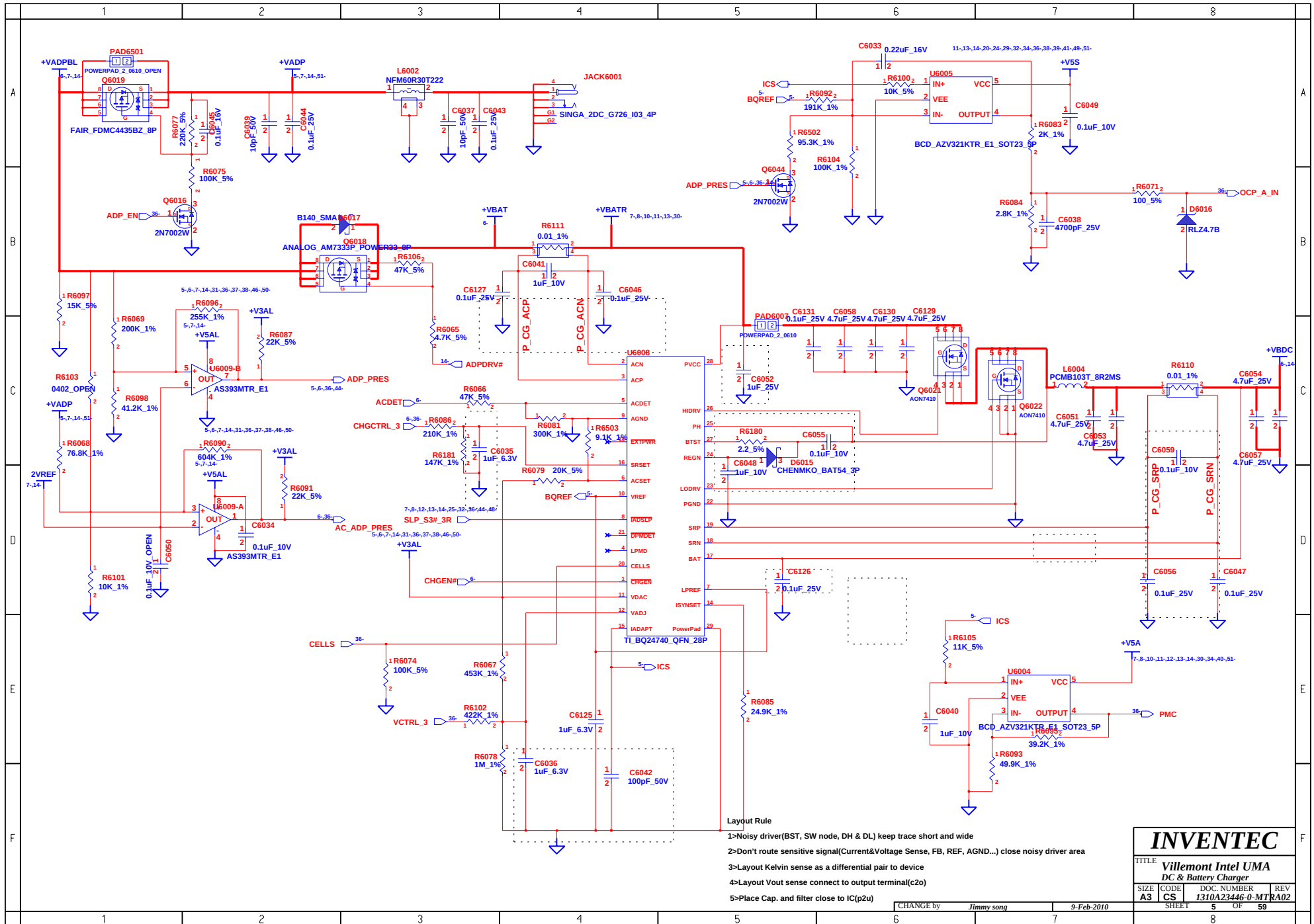
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 40- USB CONN.
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 57- 14" ODD Extend Board.
 58- USB Right side Board.
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INVENTEC

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Villemont Intel UMA Contents			
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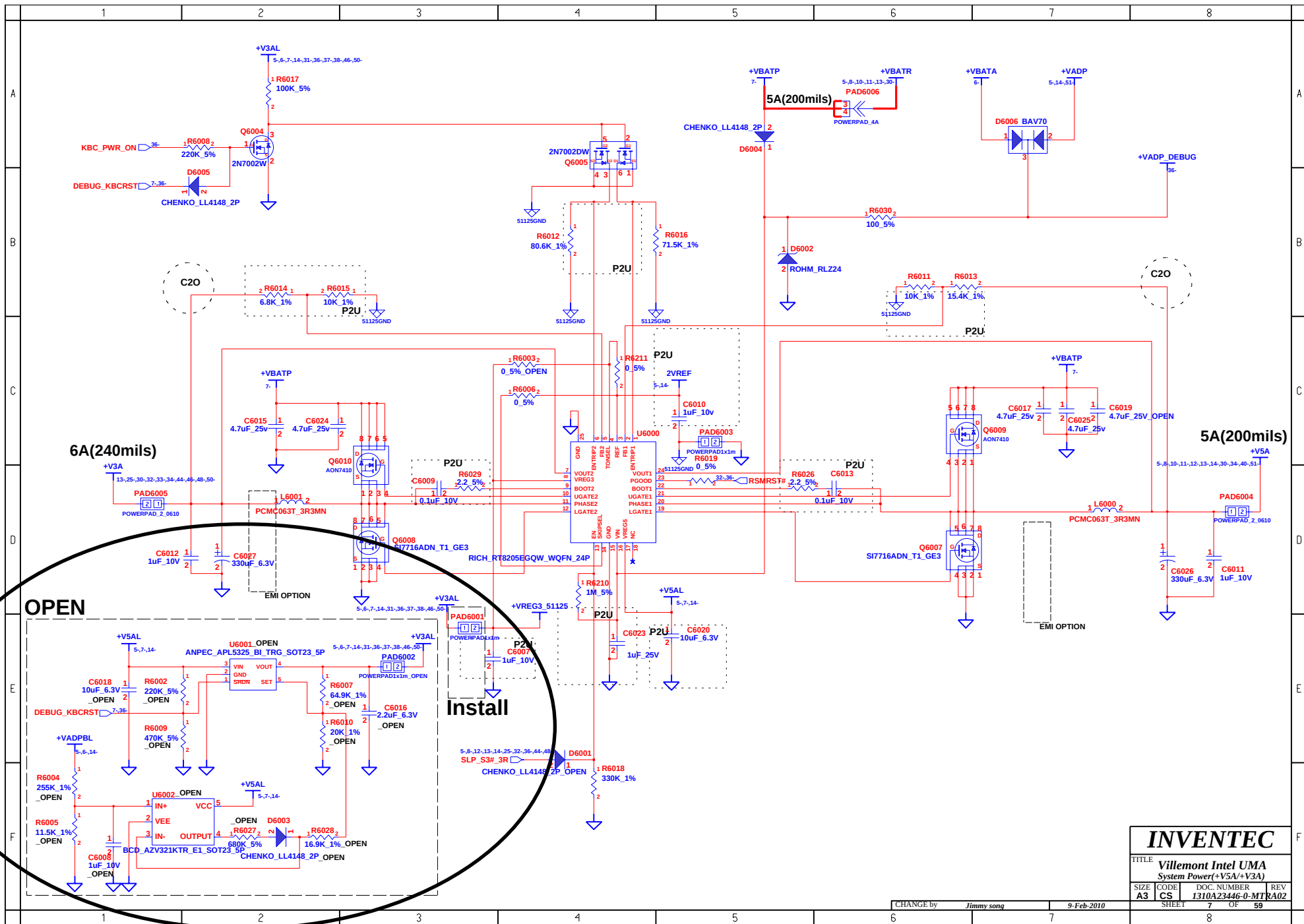
CHANGE by Jimmy song 2-Mar-2010





INVENTEC

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Villemont Intel UMA			
DC & Battery Charger			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3446-0-MT	RA02



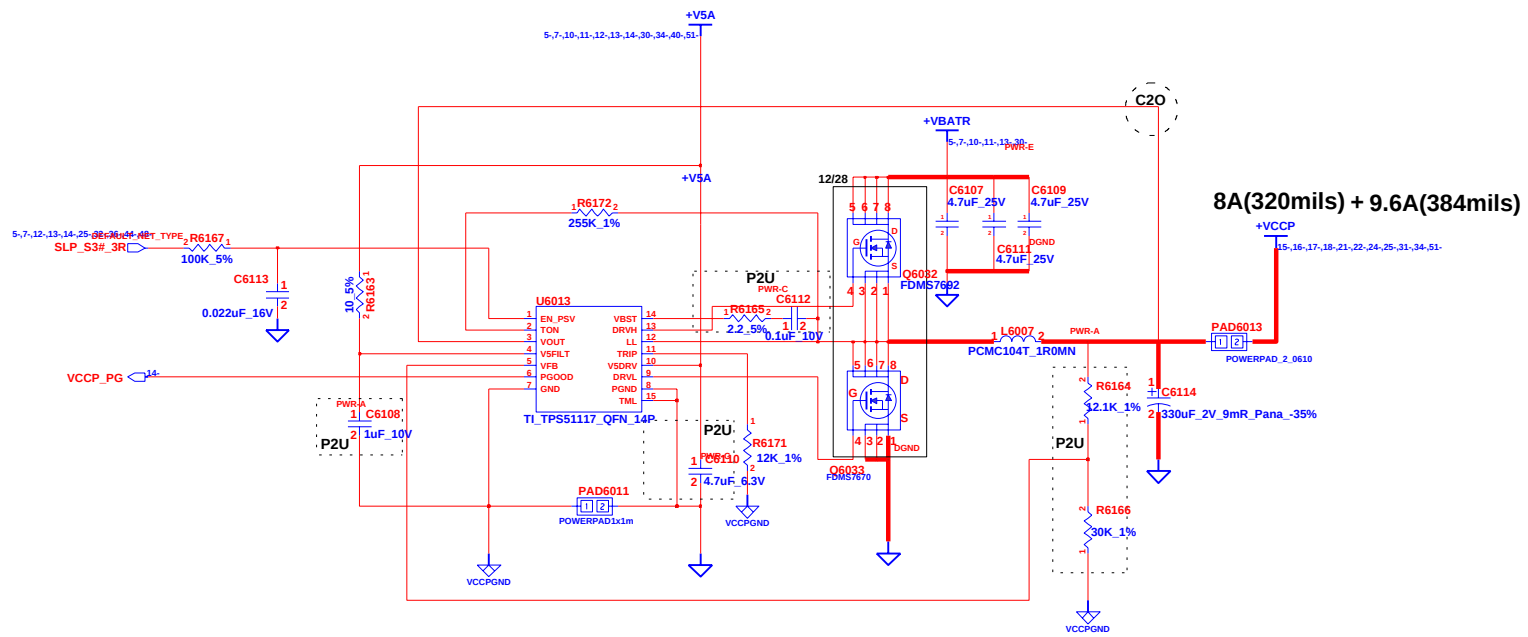
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Villemont Intel UMA
 System Power(+V5A/+V3A)

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23446-0-MTR	RA02

CHANGE by *Jimmy song* 9-Feb-2010

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INVENTEC

TITLE
Villemont Intel UMA
System Power(+V1.5/+VCCP)

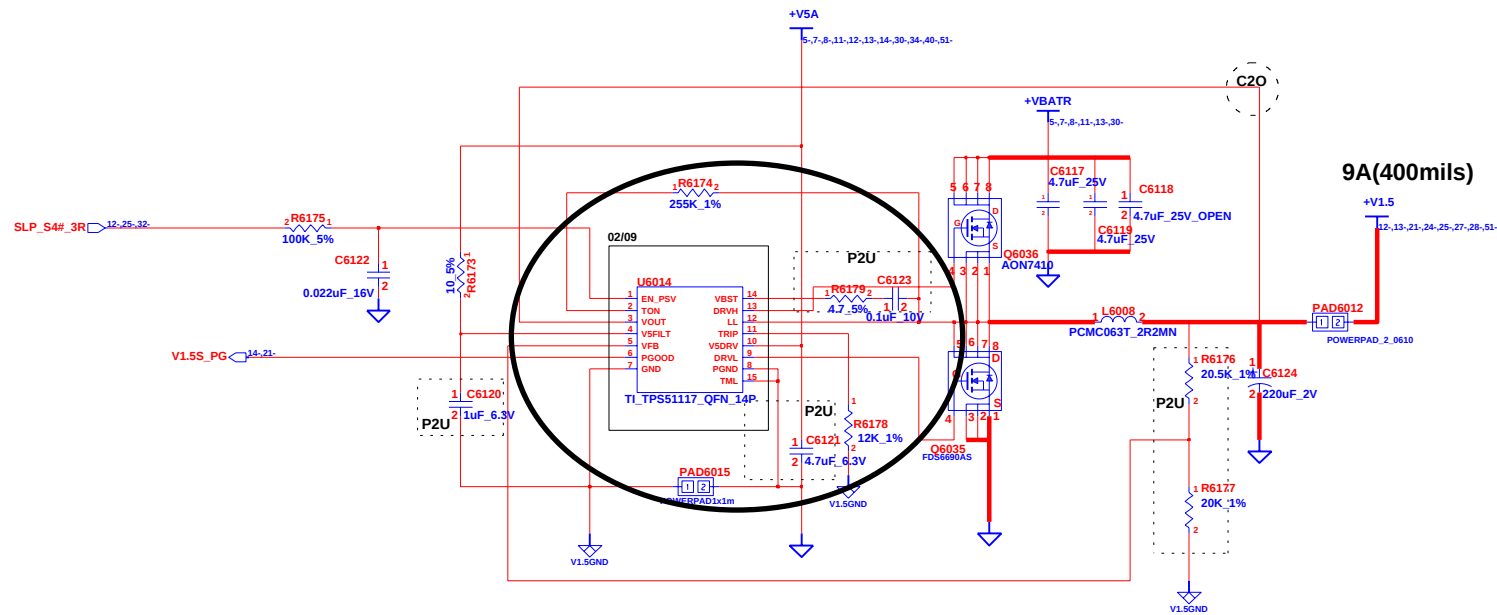
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CHANGE by Jimmy song 9-Feb-2010

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B									B
C									C
D									D
E									E
F									F
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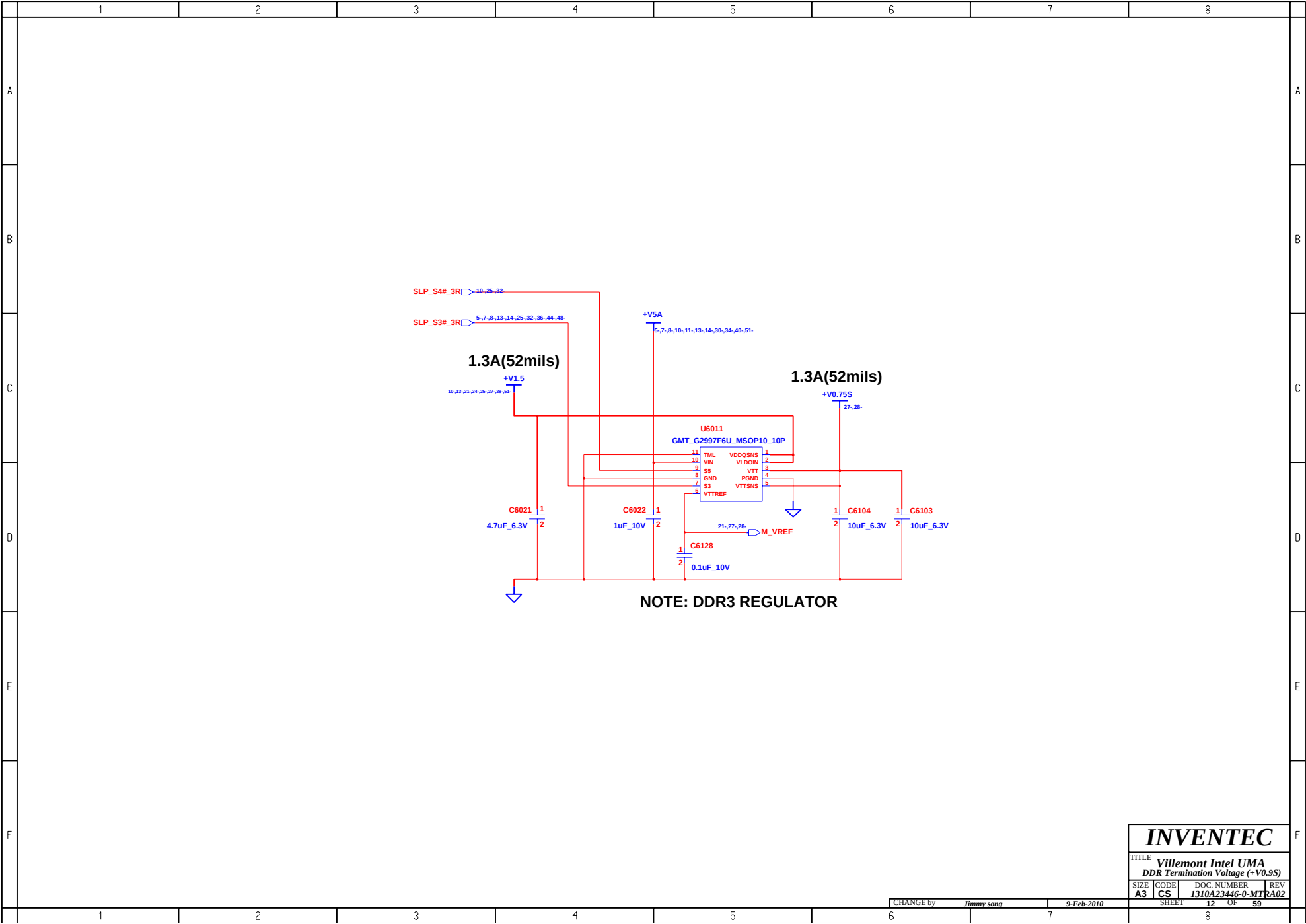
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SIZE A3	CODE CS	DOC. NUMBER 1310A23446-0-MTR	REV A02
CHANGE by Jimmy song		9-Feb-2010	
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INVENTEC			
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SIZE A3	CODE CS	DOC. NUMBER I310A23446-0-MTR	REV A02

CHANGE by Jimmy song 9-Feb-2010

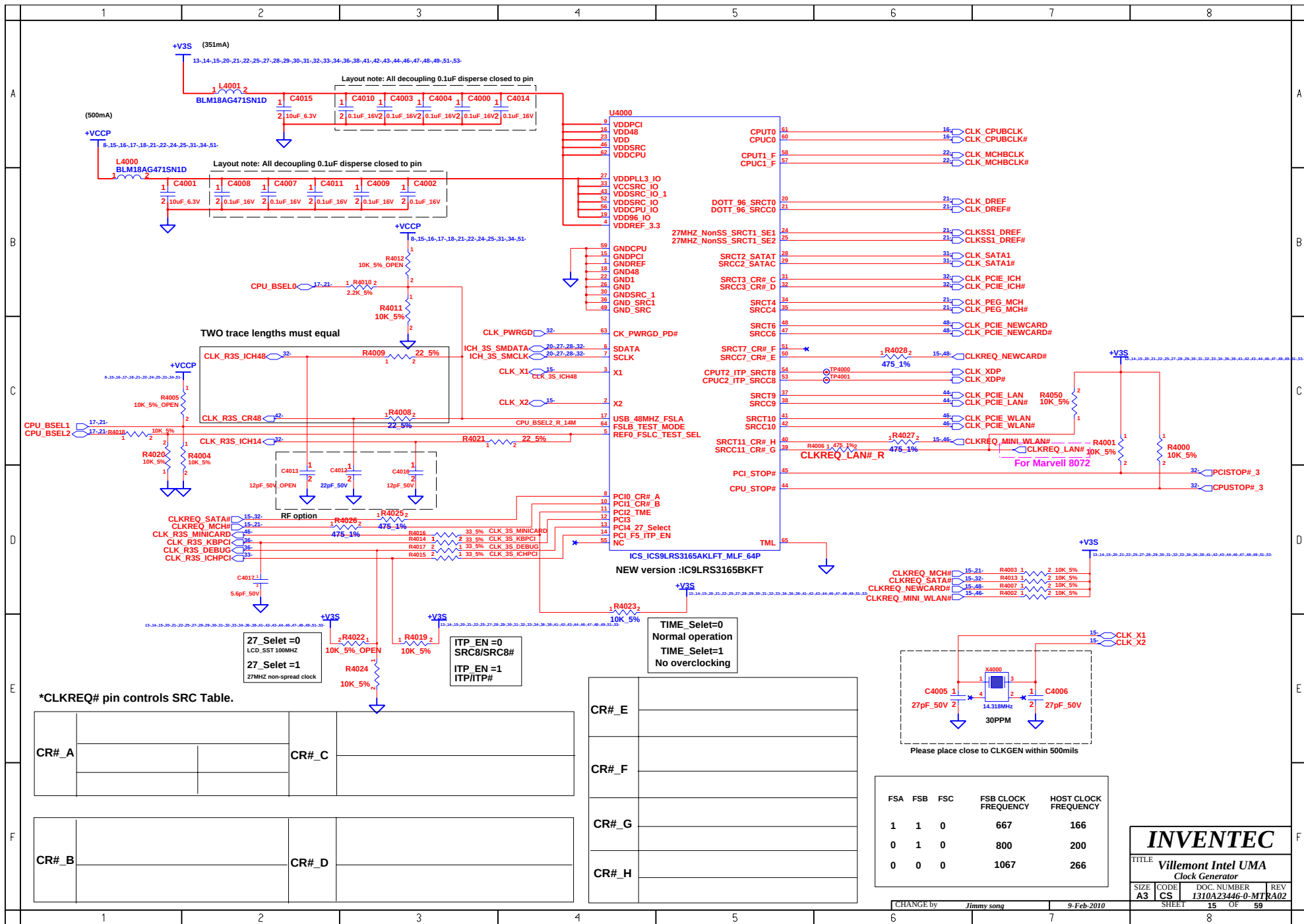
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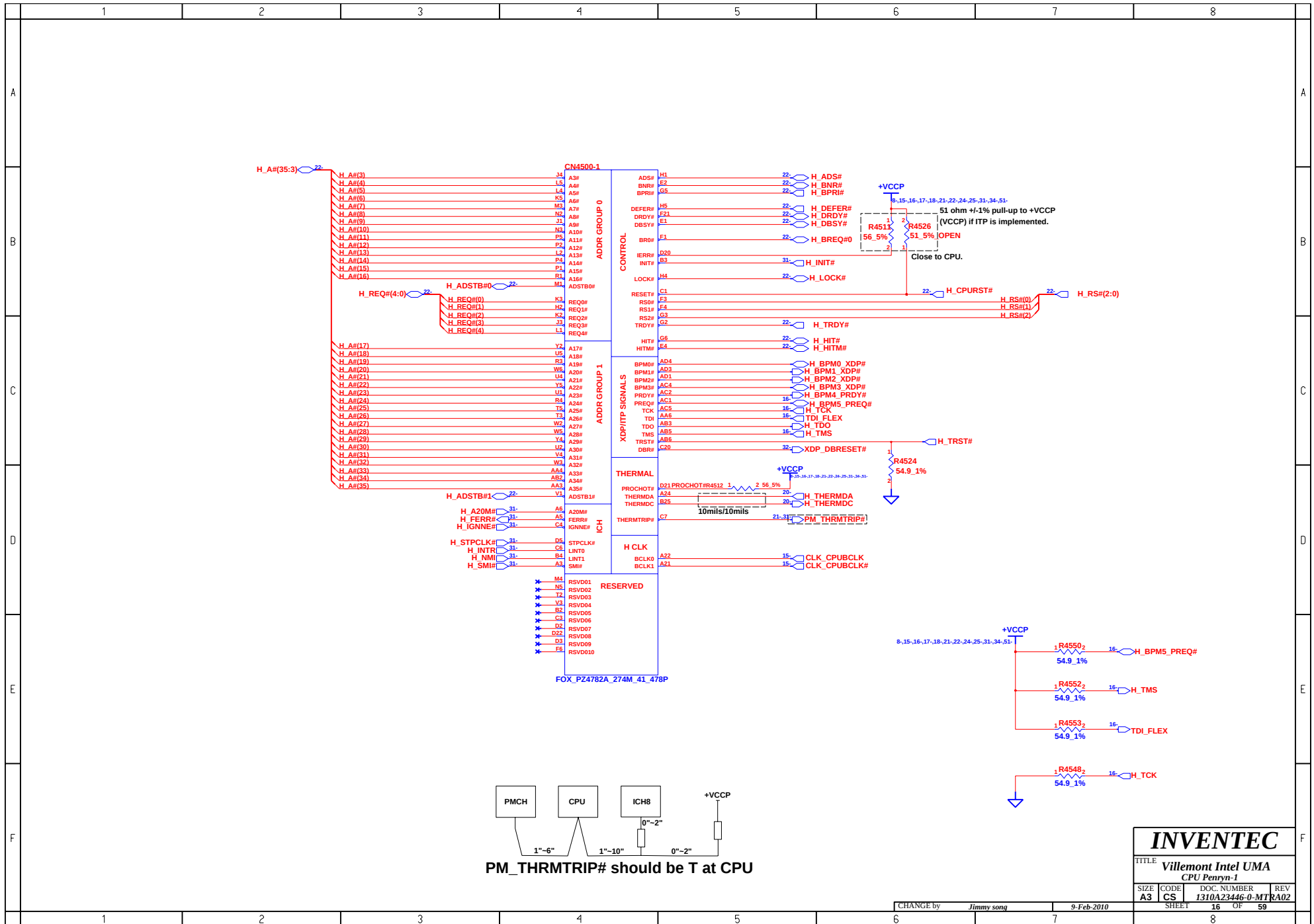


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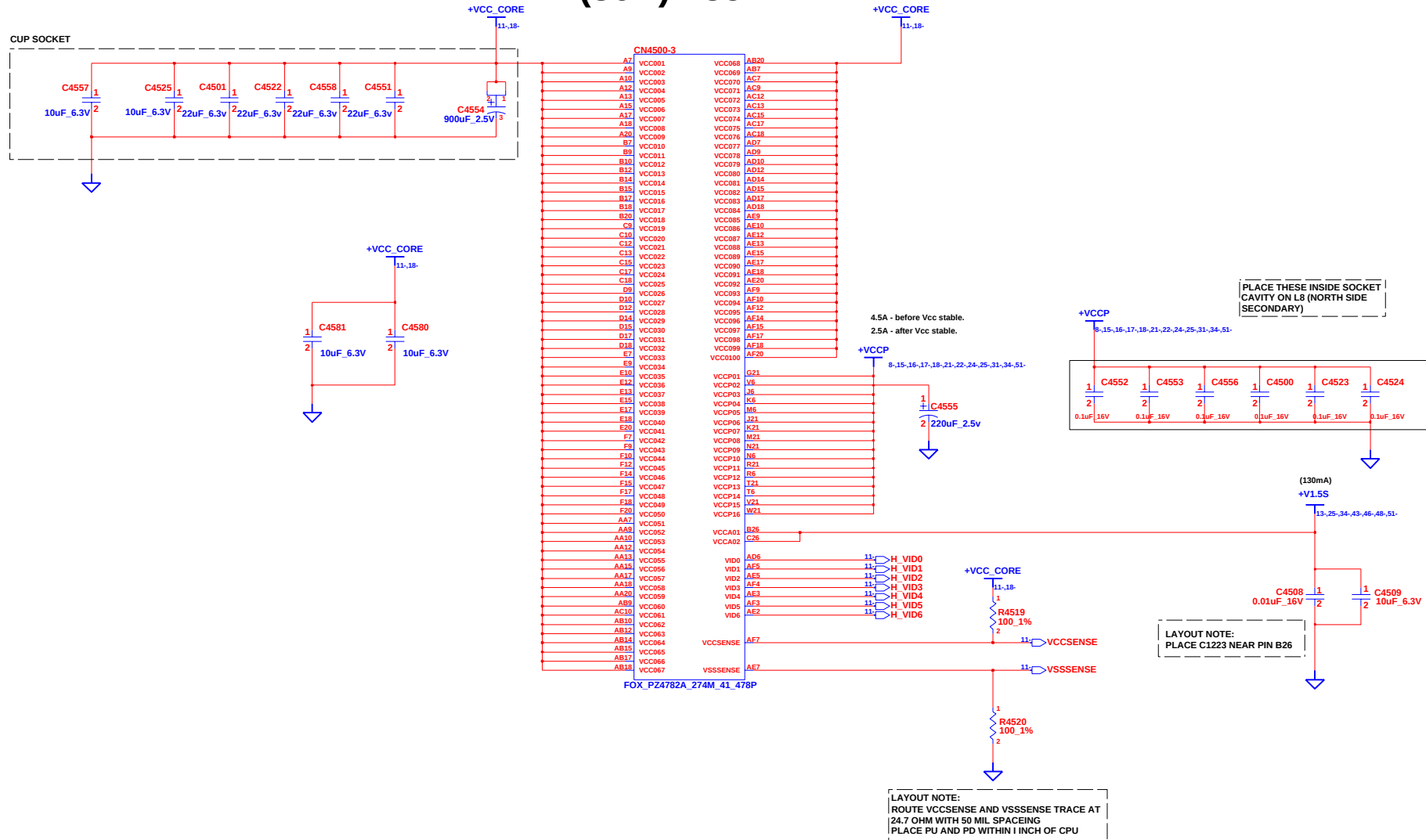
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DDR Termination Voltage (+V0.9S)

SIZE **A3** CODE **CS** DOC. NUMBER **1310AZ3446-0-MT** REV **RA02**





(36A) <35W>



INVENTEC

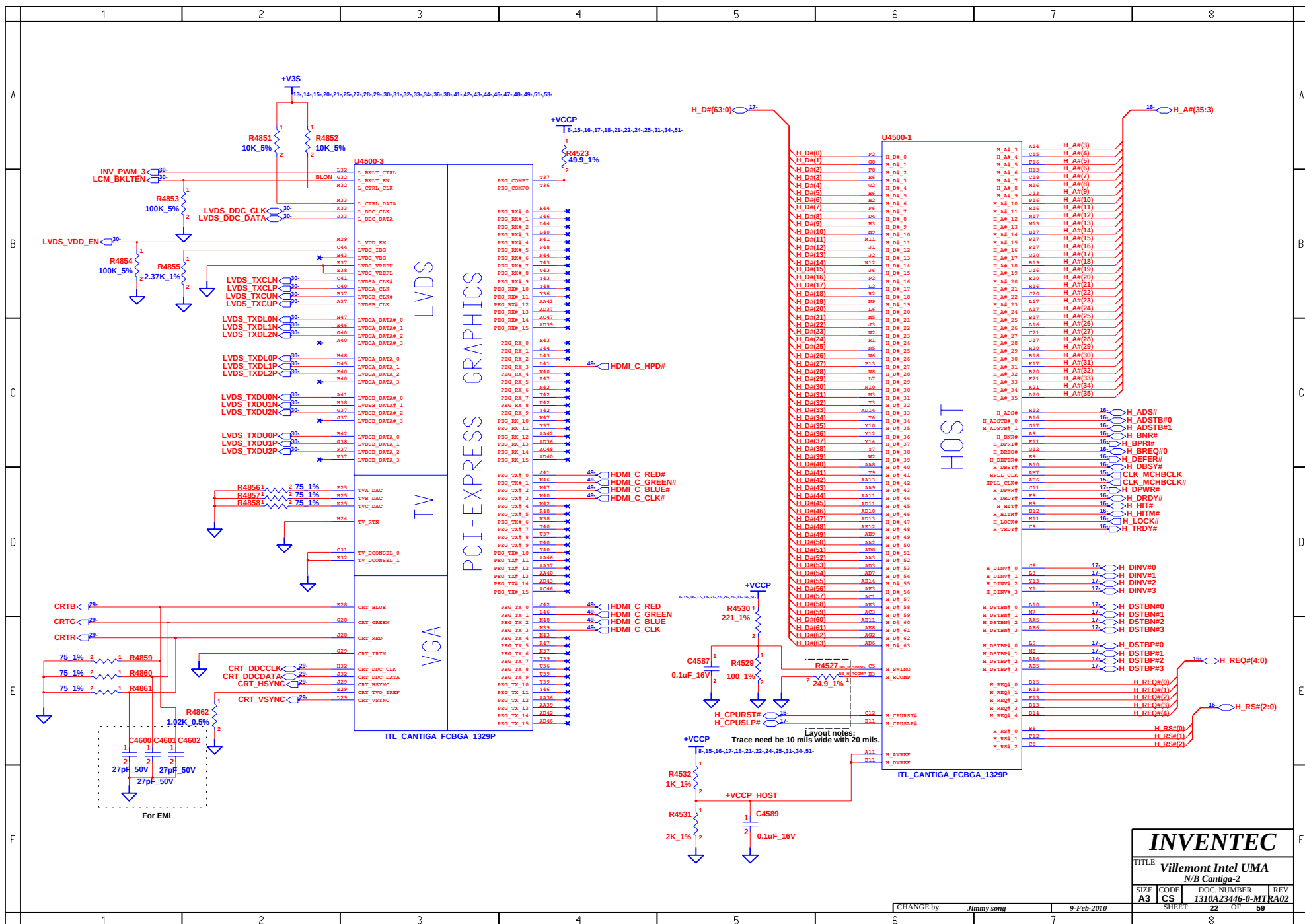
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Villemont Intel UMA
CPU Penryn-3

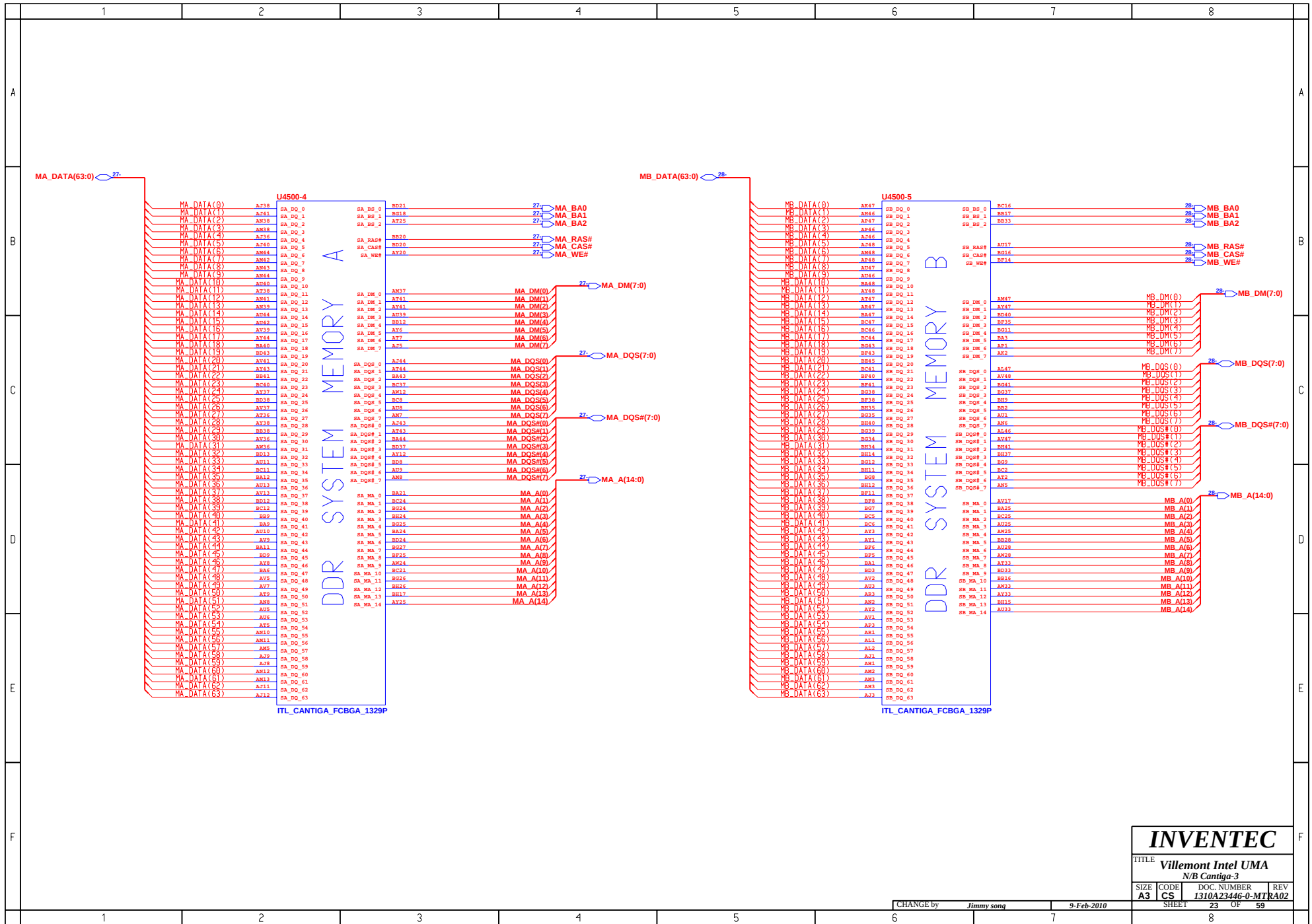
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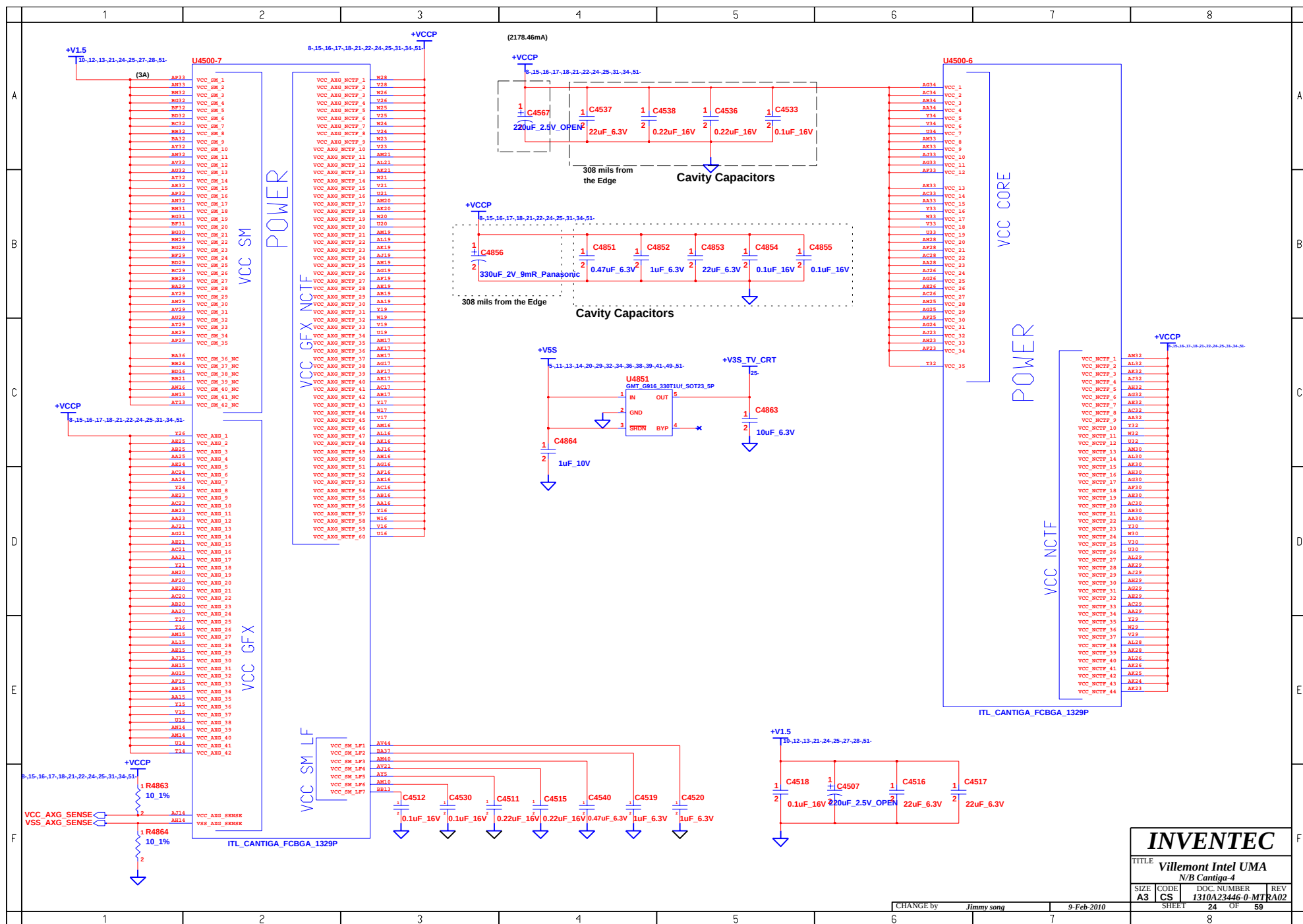
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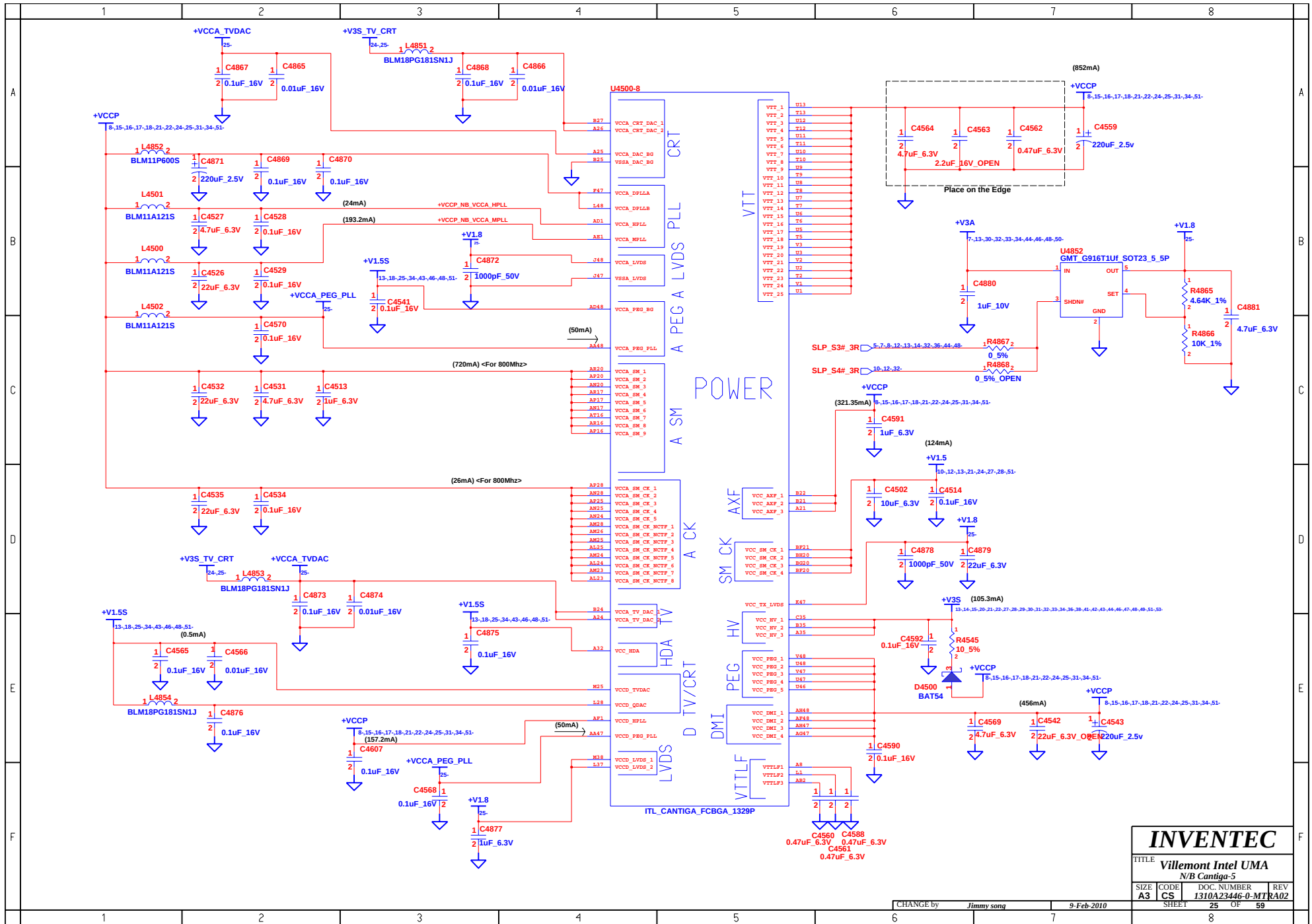
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INVENTEC

TITLE
Villemont Intel UMA
N/B Cantiga-5

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3446-0-MT	RA02

CHANGE by Jimmy song

9-Feb-2010

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A			U4500-9			U4500-10			A
			AM36 VSS 1	AM36 VSS 100		BM31 VSS 199	AM36 VSS 297		
			AR48 VSS 2	AR48 VSS 101		BM31 VSS 200	VSS 298		
			AL48 VSS 3	VSS 102	P36	AM31 VSS 201	VSS 299	18	
			BR47 VSS 4	VSS 103	J36	AM31 VSS 202	VSS 300	88	
			AM47 VSS 5	VSS 104	J36	AM31 VSS 203	VSS 301	88	
			VSS 105	VSS 105	P36	AM31 VSS 204	VSS 302	AV7	
			A747 VSS 7	VSS 106	B36	AM31 VSS 205	VSS 303	AD7	
			AR47 VSS 8	VSS 107	AM35	AP24 VSS 206	VSS 304	AM7	
			AR47 VSS 9	VSS 108	AM35	AM31 VSS 207	VSS 305	AD7	
			AR47 VSS 10	VSS 109	V36	R21 VSS 208	VSS 306	AD7	
			Y47 VSS 11	VSS 110	D36	M21 VSS 209	VSS 307	AA7	
			Y47 VSS 12	VSS 111	T36	Q21 VSS 210	VSS 308	N7	
			Y47 VSS 13	VSS 112	BR14	Q21 VSS 211	VSS 309	27	
			L47 VSS 14	VSS 113	AM14	RC20 VSS 212	VSS 310	BD6	
			Q47 VSS 15	VSS 114	A714	BA20 VSS 213	VSS 311	BD6	
			BA46 VSS 16	VSS 115	AP14	AM40 VSS 214	VSS 312	AV6	
			VSS 117	VSS 116	AM14	AT20 VSS 215	VSS 313	AT6	
			AY46 VSS 18	VSS 117	M36	A220 VSS 216	VSS 314	AM6	
			AY46 VSS 19	VSS 118	R34	AG20 VSS 217	VSS 315	M6	
			AR46 VSS 20	VSS 119	R34	T20 VSS 218	VSS 316	C6	
			AM46 VSS 21	VSS 120	BM33	R20 VSS 219	VSS 317	BA5	
			V46 VSS 22	VSS 121	RC13	K20 VSS 220	VSS 318	AM5	
			R46 VSS 23	VSS 122	BA33	F20 VSS 221	VSS 319	AD5	
			R46 VSS 24	VSS 123	AV33	DA20 VSS 222	VSS 320	Y6	
			R46 VSS 25	VSS 124	AM33	AM20 VSS 223	VSS 321	16	
			P46 VSS 26	VSS 125	AL33	BM19 VSS 224	VSS 322	J5	
			BP44 VSS 27	VSS 126	AM33	A18 VSS 225	VSS 323	H5	
			AR44 VSS 28	VSS 127	P33	BM17 VSS 226	VSS 324	BA4	
			AD44 VSS 29	VSS 128	AM33	RC17 VSS 227	VSS 325	BA4	
			AA44 VSS 30	VSS 129	L33	AM17 VSS 228			
			T44 VSS 31	VSS 130	R33	AT17 VSS 229	VSS 327	BC3	
			DA44 VSS 32	VSS 131	R33	AT17 VSS 230	VSS 328	AM3	
			T44 VSS 33	VSS 132	K33	M17 VSS 231	VSS 329	AL3	
			M44 VSS 34	VSS 133	P33	M17 VSS 232	VSS 330	R3	
			P44 VSS 35	VSS 134	C33	C17 VSS 233	VSS 331	P3	
			RC43 VSS 36	VSS 135	A33		VSS 332	BA2	
			AY43 VSS 37	VSS 136	AM29	BA16 VSS 235	VSS 333	BA2	
			AD43 VSS 38	VSS 137	T29		VSS 334	AM2	
			AM43 VSS 39	VSS 138	R29		VSS 335	AM2	
			J43 VSS 40	VSS 139	F29	AM16 VSS 237	VSS 336	AM2	
			C43 VSS 41	VSS 140	R29	AM16 VSS 238	VSS 337	AP2	
			R442 VSS 42	VSS 141	F29	K16 VSS 239	VSS 338	AM2	
			AY42 VSS 43	VSS 142	AM2	D16 VSS 241	VSS 339	AM2	
			AT42 VSS 44	VSS 143	BM18	R16 VSS 242	VSS 340	AP2	
			AM42 VSS 45	VSS 144	BM18	BM15 VSS 243	VSS 341	AM2	
			AT42 VSS 46	VSS 145	BA28	AC15 VSS 244	VSS 342	AD2	
			AR42 VSS 47	VSS 146	AV28	M16 VSS 245	VSS 343	AM2	
			R42 VSS 48	VSS 147	AT28	AM15 VSS 246	VSS 344	Y2	
			L42 VSS 49	VSS 148	AM28	BM14 VSS 247	VSS 345	M2	
			BR41 VSS 50	VSS 149	A278	AA16 VSS 248	VSS 346	K2	
			AM41 VSS 51	VSS 150	AM28	CH4 VSS 249	VSS 347	AM1	
			AM41 VSS 52	VSS 151	AM28	BM13 VSS 250	VSS 348	AA1	
			AR41 VSS 53	VSS 152	AM28	RC13 VSS 251	VSS 349	P1	
			AD41 VSS 54	VSS 153	T28	BA13 VSS 252	VSS 350	H1	
			AA41 VSS 55	VSS 154	F28				
			Y41 VSS 56	VSS 155	K28				
			D41 VSS 57	VSS 156	R28	AM13 VSS 255	VSS 351	U24	
			Y41 VSS 58	VSS 157	F28	A213 VSS 256	VSS 352	U28	
			M41 VSS 59	VSS 158	C28	AM13 VSS 257	VSS 353	U25	
			G41 VSS 60	VSS 159	BP26	H13 VSS 258	VSS 354	U29	
			R41 VSS 61	VSS 160	AM16	L13 VSS 259			
			BR40 VSS 62	VSS 161	AP26	Q13 VSS 260	VSS 355	AP12	
			VSS 63	VSS 162	AM16	R13 VSS 261	VSS 356	AM12	
			AY40 VSS 64	VSS 163	AA26	BF12 VSS 262	VSS 357	V32	
			AR40 VSS 65	VSS 164	C26	AV12 VSS 263	VSS 358	A320	
			R40 VSS 66	VSS 165	R26	AM12 VSS 264	VSS 359	AM29	
			R40 VSS 67	VSS 166	BM15	VSS 265	VSS 360	AP28	
			AT39 VSS 68	VSS 167	BM15	AA12 VSS 266	VSS 361	AM25	
			AM39 VSS 69	VSS 168	BM15	J12 VSS 267	VSS 362	U26	
			AT39 VSS 70	VSS 169	AM15	A12 VSS 268	VSS 363	U23	
			AR39 VSS 71	VSS 170	AM15	BM11 VSS 269	VSS 364	AM20	
			N39 VSS 72	VSS 171	A275	BM11 VSS 270	VSS 365	V20	
			L39 VSS 73	VSS 172	AC25	AT11 VSS 271	VSS 366	AC19	
			R39 VSS 74	VSS 173	T25	AM11 VSS 272	VSS 367	AM17	
			BR38 VSS 75	VSS 174	K25	AM11 VSS 273	VSS 368	AM17	
			RC38 VSS 76	VSS 175	L25		VSS 369	AM17	
			BA38 VSS 77	VSS 176	J25		VSS 370	U17	
			AU38 VSS 78	VSS 177	Q25				
			AB38 VSS 79	VSS 178	R25				
			AD38 VSS 80	VSS 179	BP24				
			AA38 VSS 81	VSS 180	AD12				
			X38 VSS 82	VSS 181	AT24				
			D38 VSS 83	VSS 182	AT24				
			T38 VSS 84	VSS 183	A724				
			J38 VSS 85	VSS 184	AM24				
			F38 VSS 86	VSS 185	AP24				
			C38 VSS 87	VSS 186	AM24				
			BP37 VSS 88	VSS 187	R24				
			BR37 VSS 89	VSS 188	L24				
			AM37 VSS 90	VSS 189	R24				
			AT37 VSS 91	VSS 190	J24				
			AM37 VSS 92	VSS 191	Q24				
			AT37 VSS 93	VSS 192	F24				
			R37 VSS 94	VSS 193	R24				
			C37 VSS 95	VSS 194	BM23				
			BR36 VSS 96	VSS 195	AG23				
			VSS 97	VSS 196	V23				
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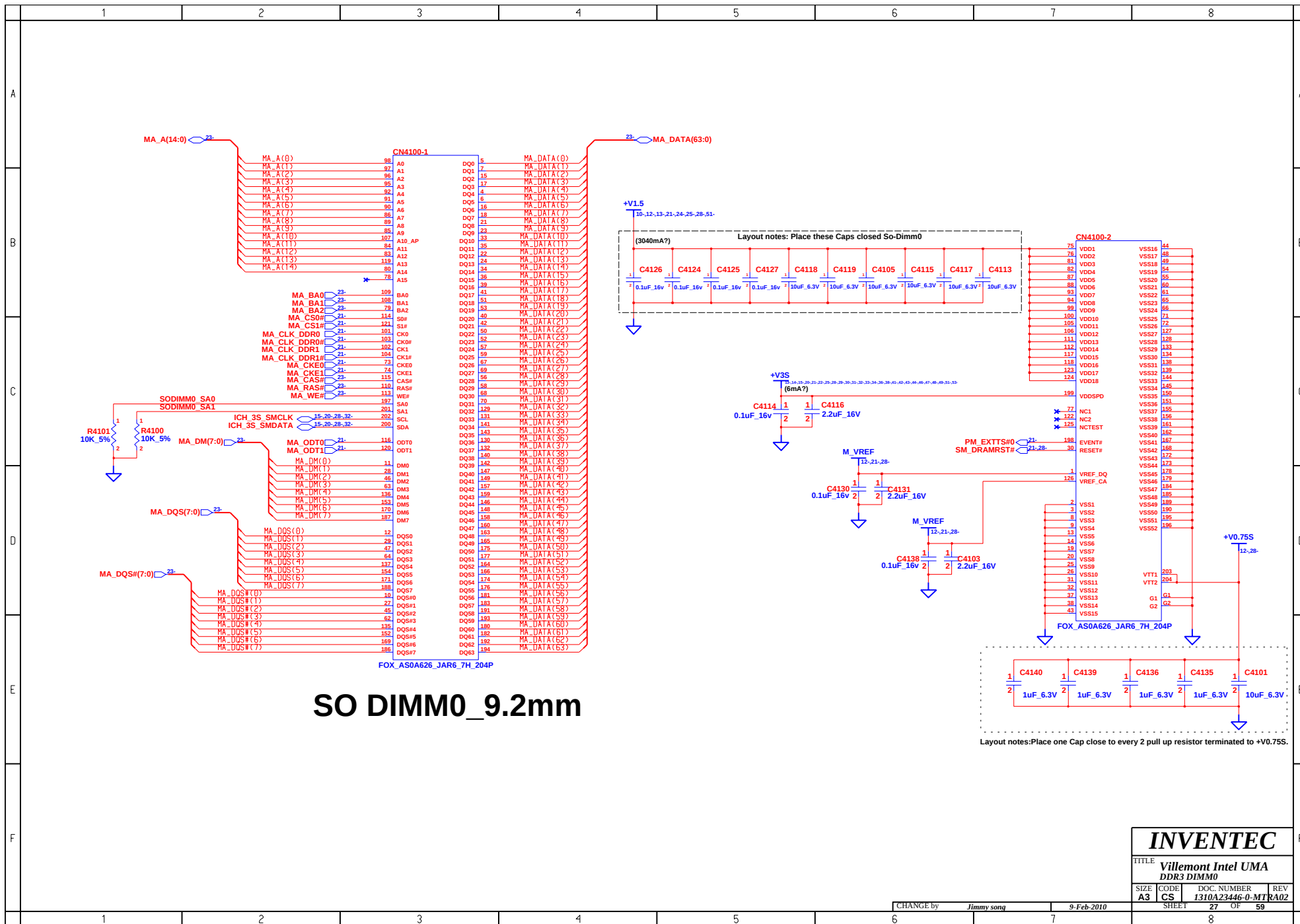
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Villemont Intel UMA
 N/B Cantiga-6

SIZE A3	CODE CS	DOC. NUMBER I310AZ3446-0-MTR	REV A02
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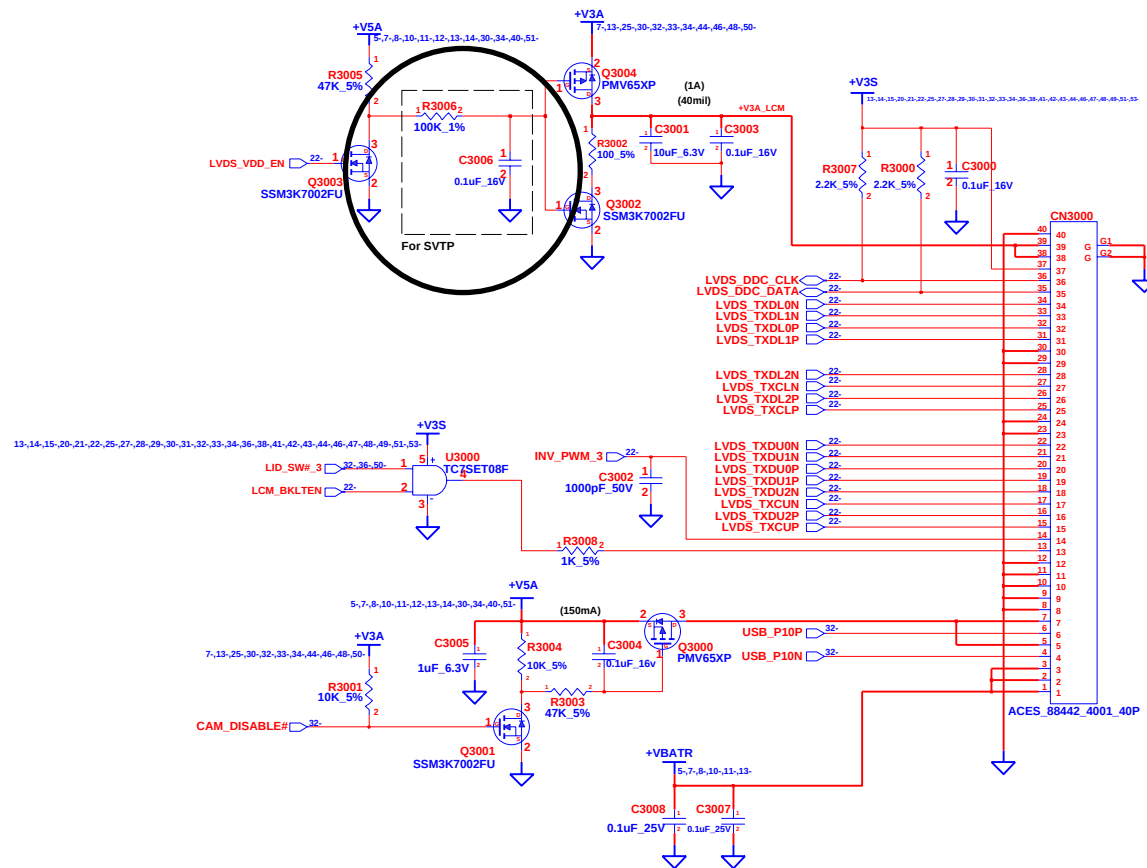
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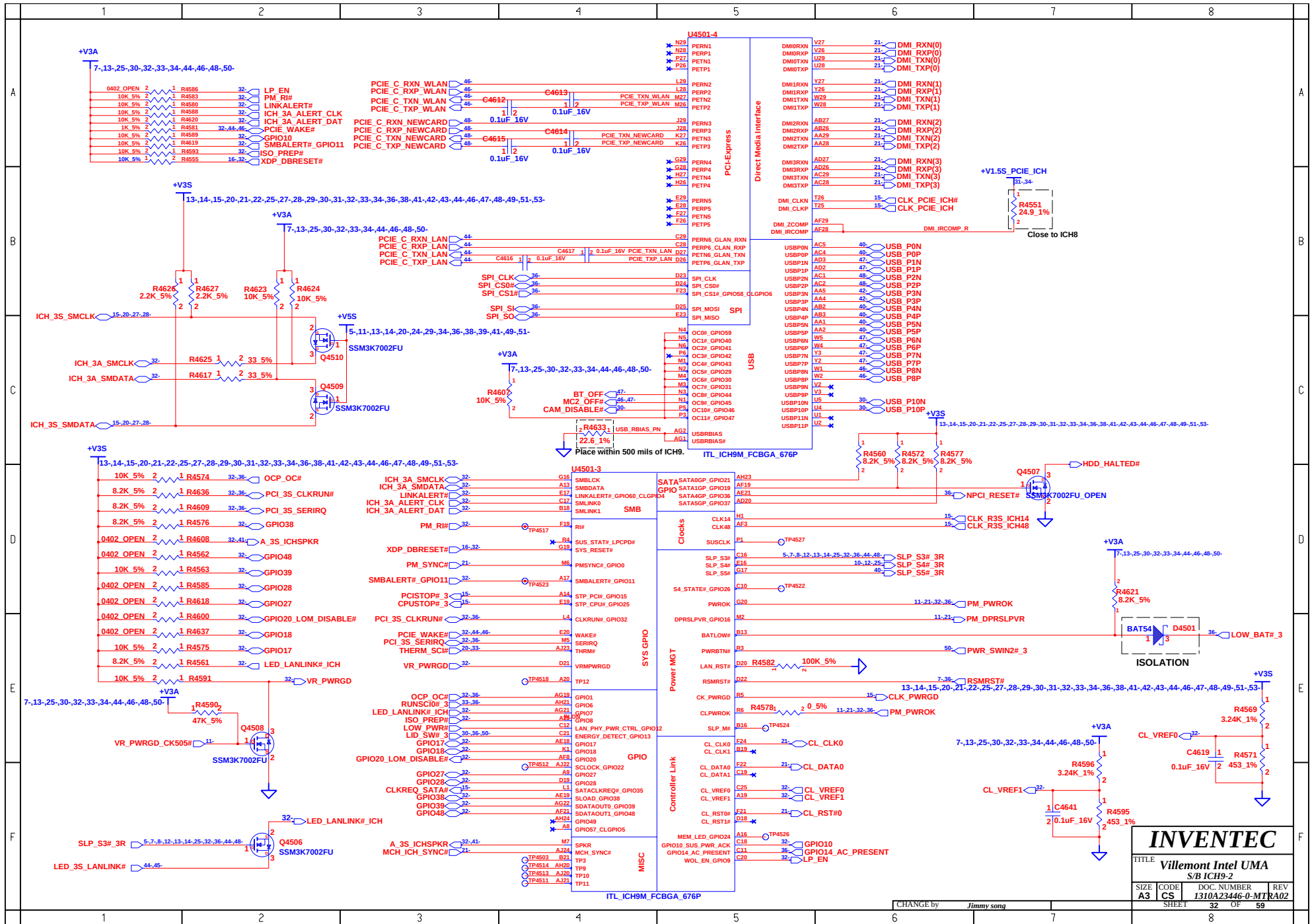
9-Feb-2010

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LCM & WebCam CONN

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SIZE A3	CODE CS	DOC. NUMBER 1310AZ3446-0-MTR	REV A02
CHANGE by Jimmy song		9-Feb-2010	
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INVENTEC

TITLE

Villemont Intel UMA

S/B ICH9-2

SIZE

A3

CODE

CS

DOC. NUMBER

I310AZ3446-0-MT

REV

RA02

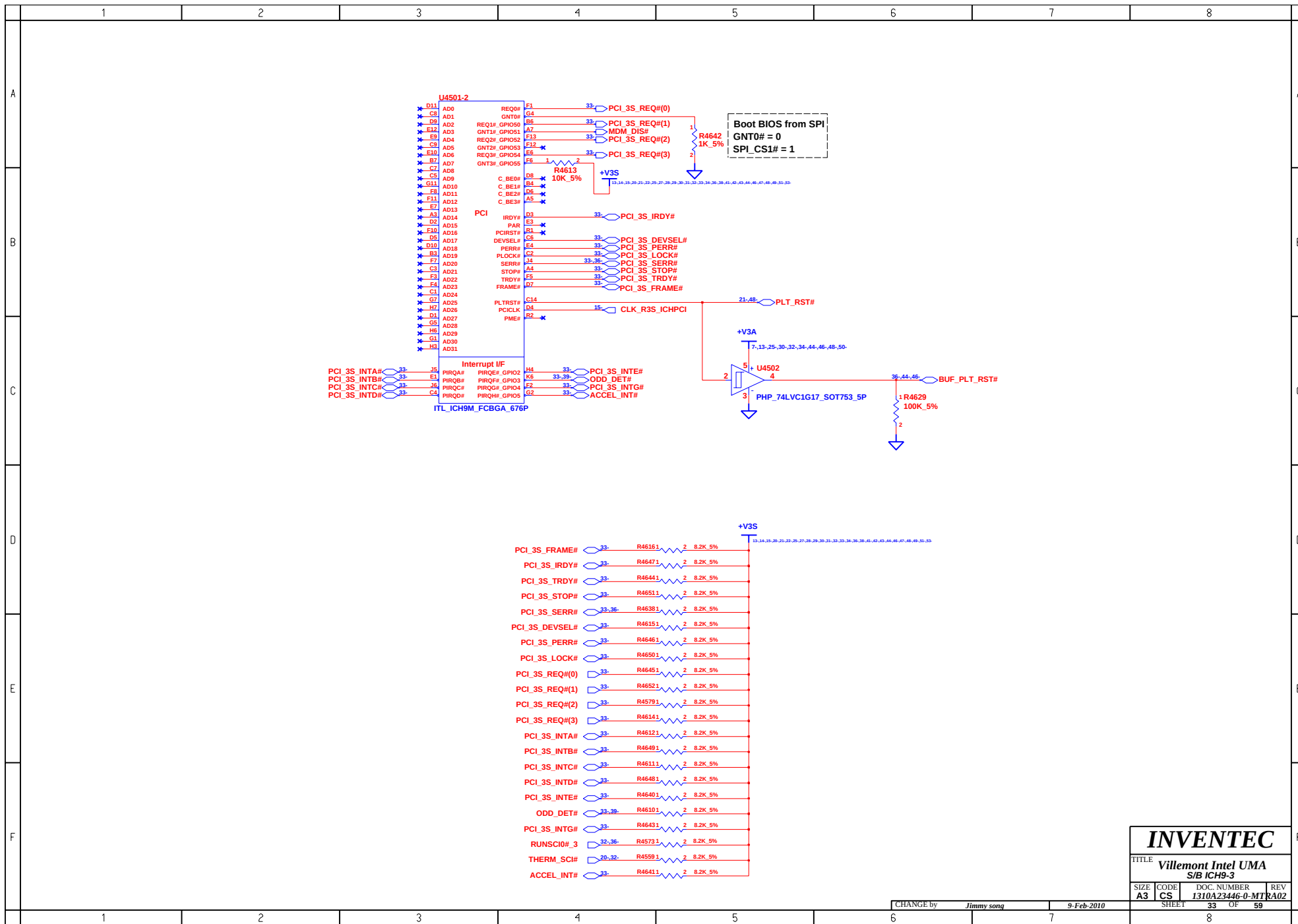
SHEET

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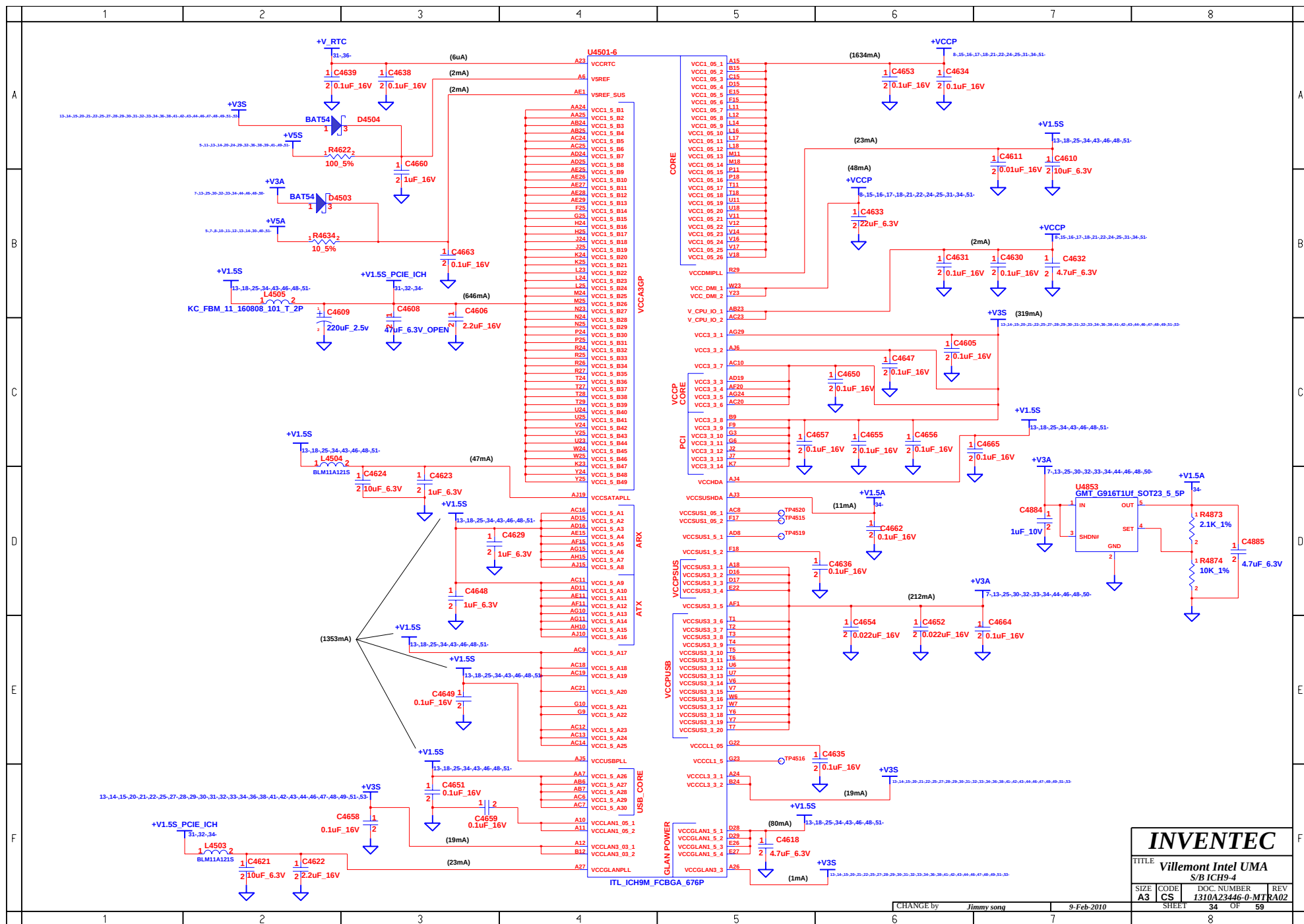
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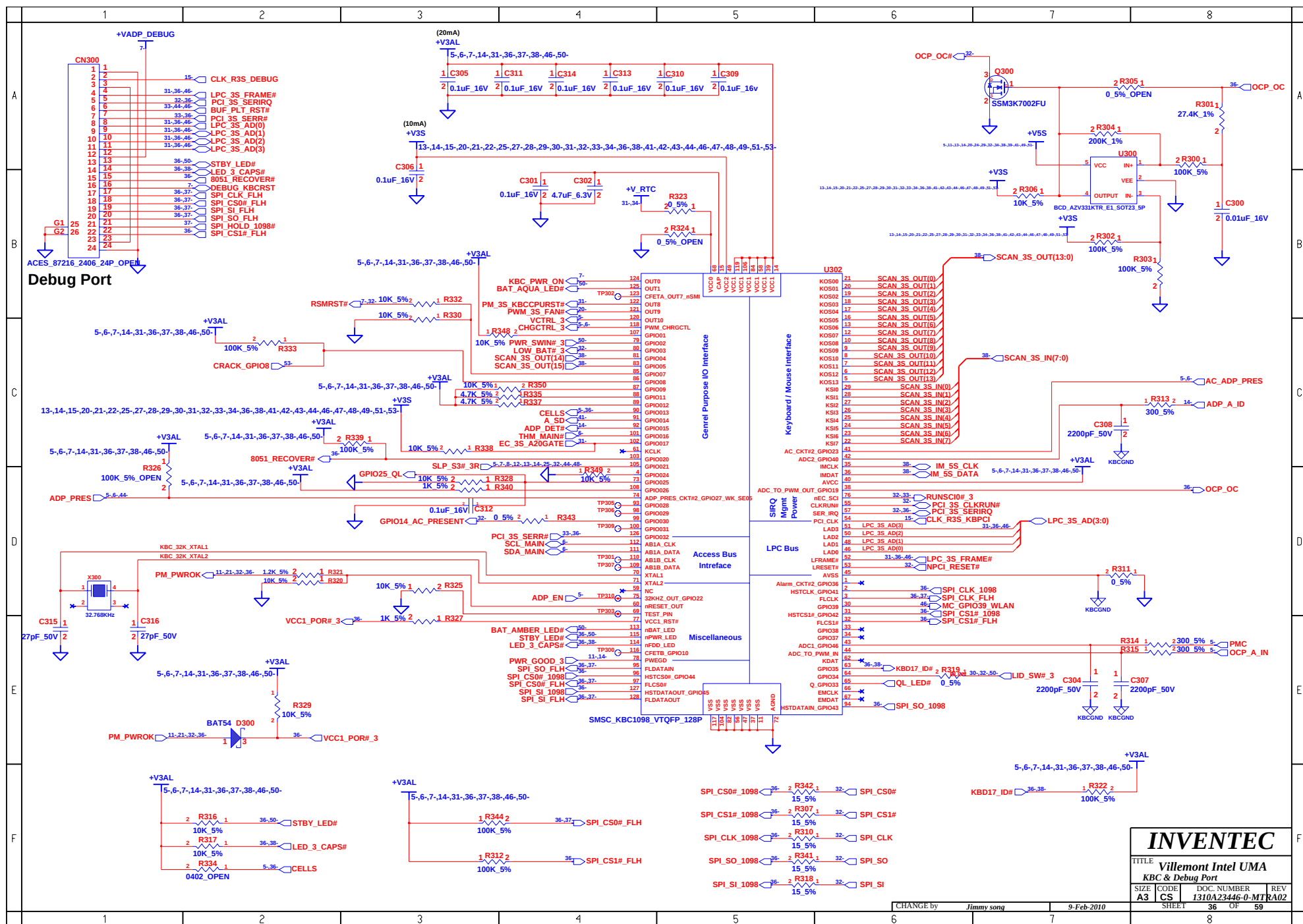


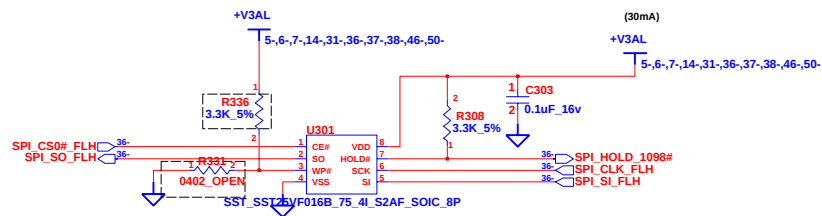
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S/B ICH9-3

SIZE A3 CODE CS DOC. NUMBER 1310AZ3446-0-MT REV A02







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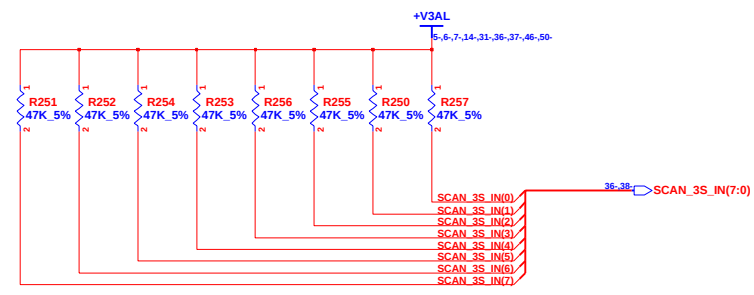
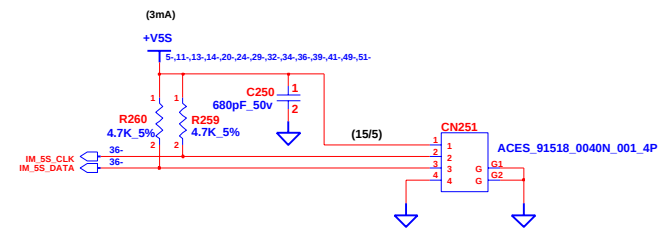
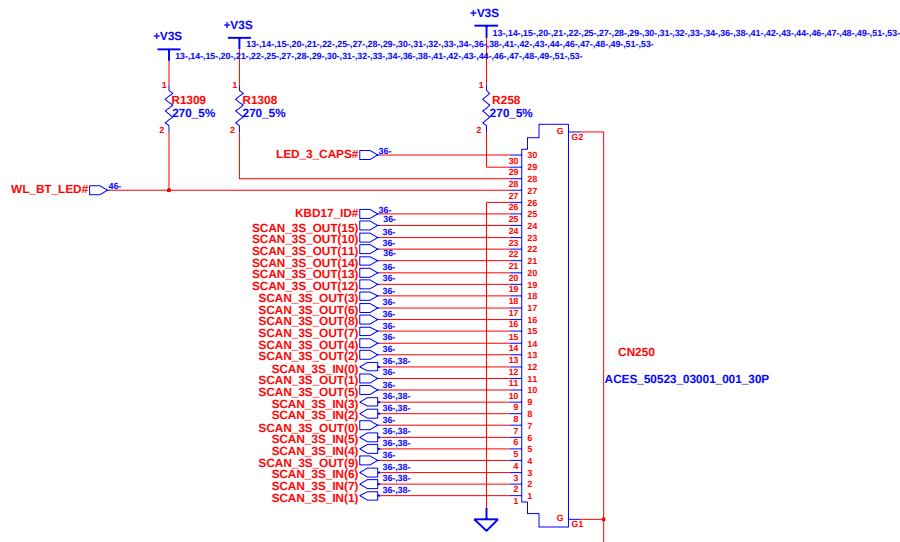
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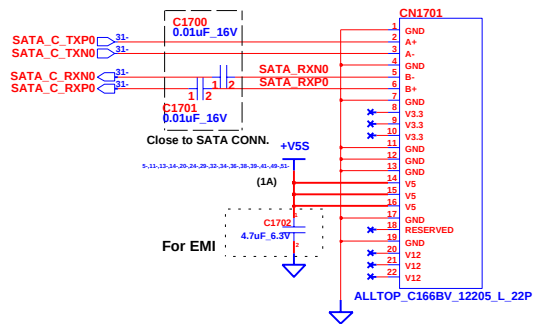
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A3	CS	1310AZ3446-0-MTR	RA02

CHANGE by *Jimmy song* 9-Feb-2010

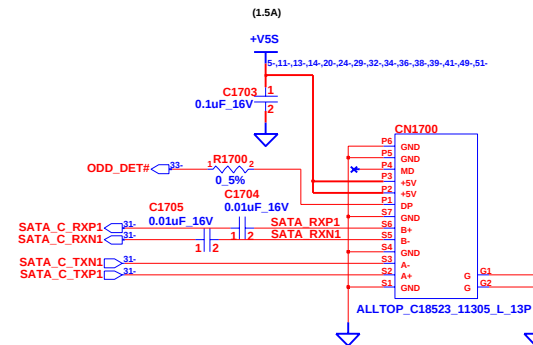
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INVENTEC			
TITLE			
Villemont Intel UMA			
KeyBoard & TouchPad & B/B CONN			
SIZE	CODE	DOC. NUMBER	REV
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CHANGE by		9-Feb-2010	
Jimmey song			
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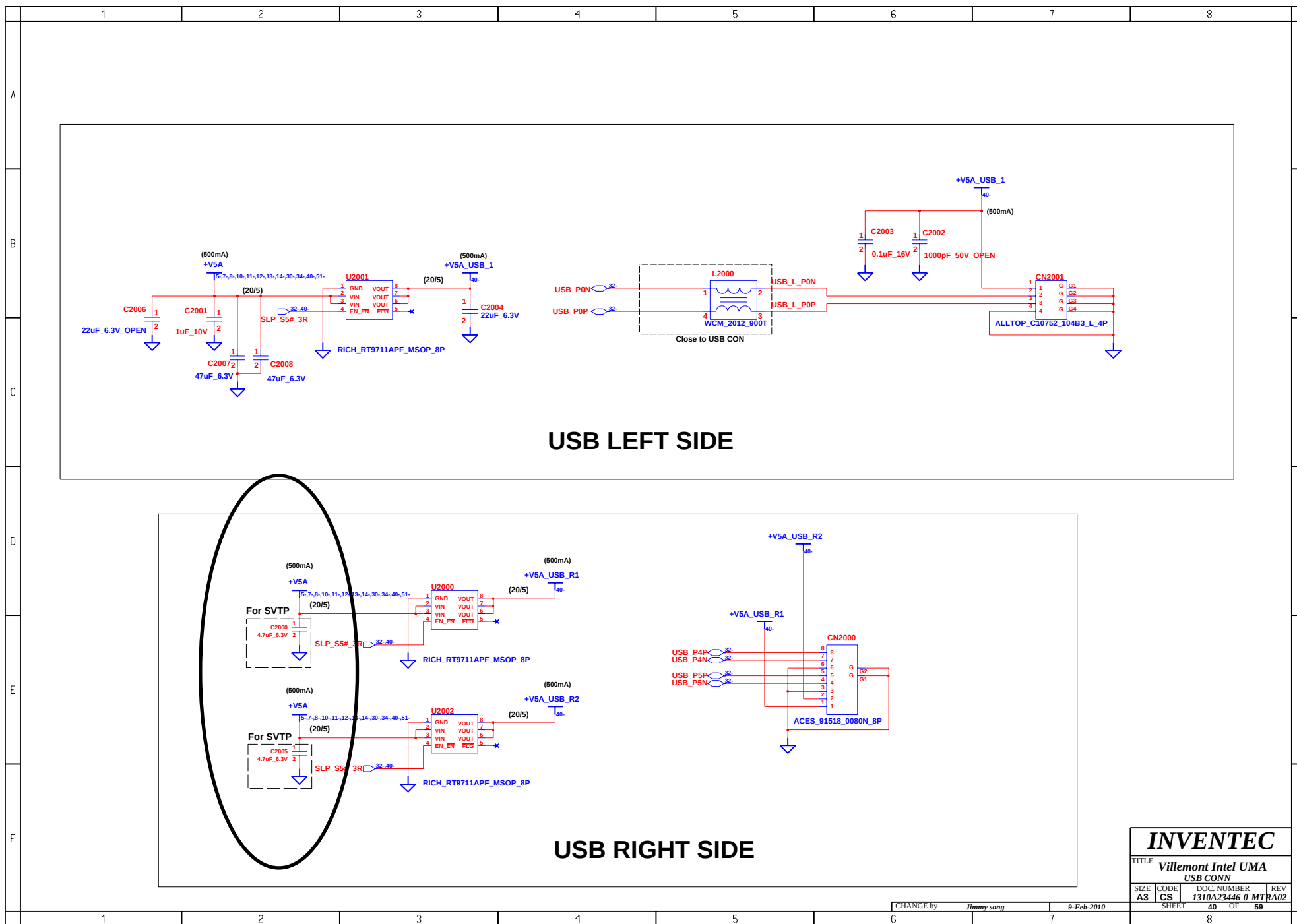


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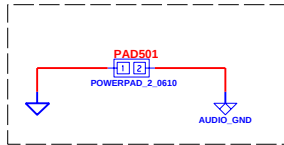


SATA ODD

INVENTEC			
TITLE Villemont Intel UMA			
HDD & ODD CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310AZ3446-0-MT	REV A02
CHANGE by Jimmy song		9-Feb-2010	
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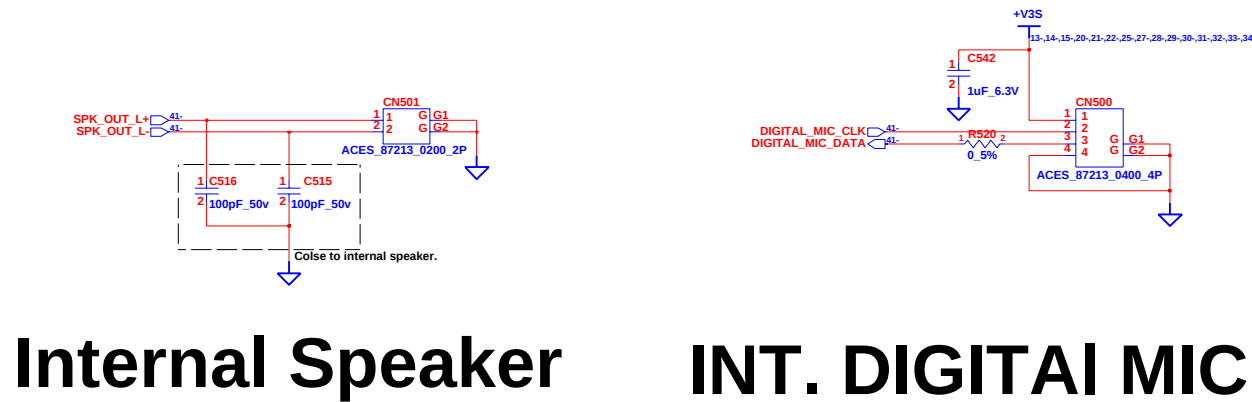
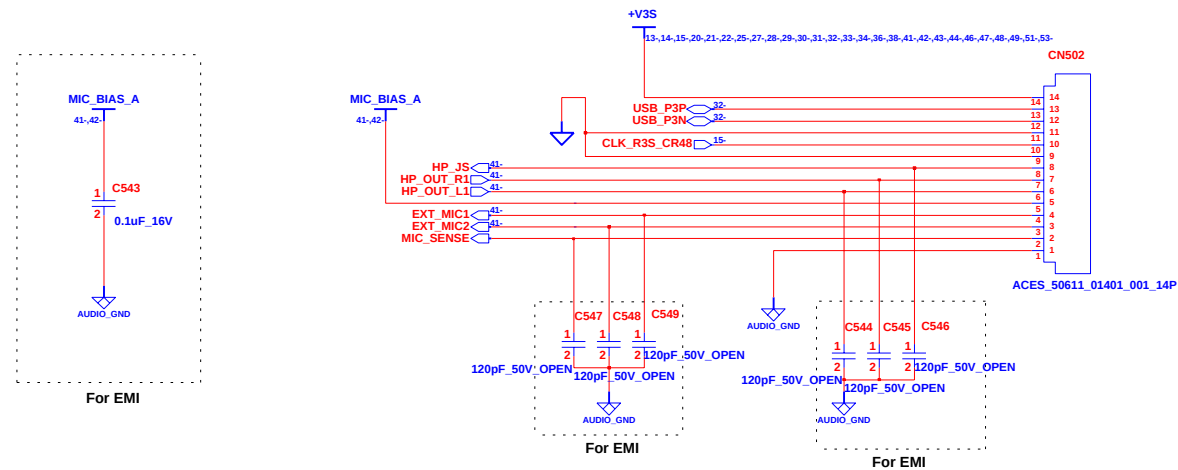


Circuit diagram showing four capacitors (C501, C506, C505, C502) connected in parallel between a common top rail and a common bottom rail labeled AUDIO_GND. Each capacitor is 0.1uF 16V. The capacitors are labeled with their IDs and values, and their pins are numbered 1 and 2.

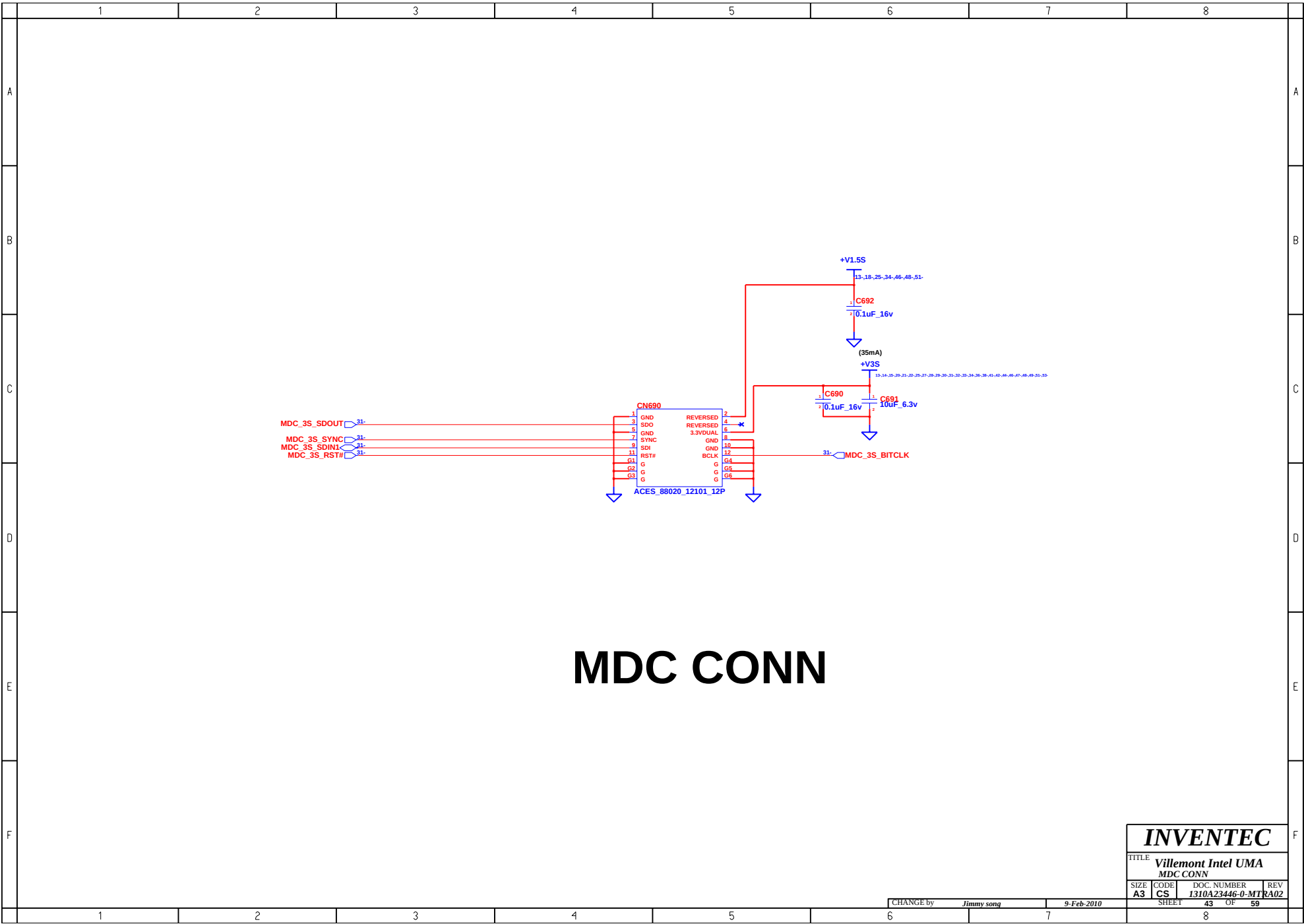


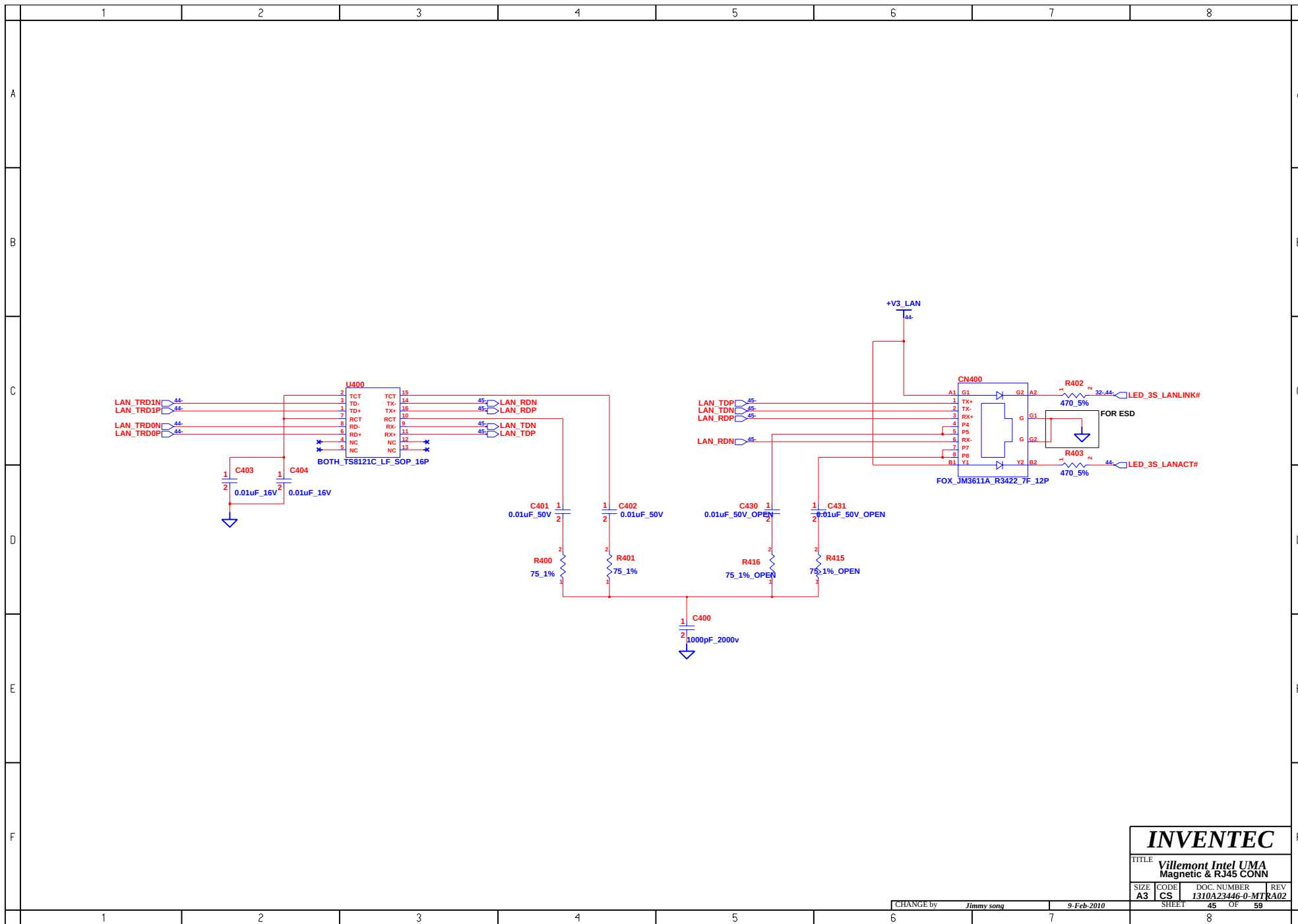
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Villemont Intel UMA AZALIA CODEC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23446-0-MTRA02	



INVENTEC			
TITLE			
Villemont Intel UMA			
Earphone & MIC JACK Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3446-0-MT	RA02
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Jimmy song			
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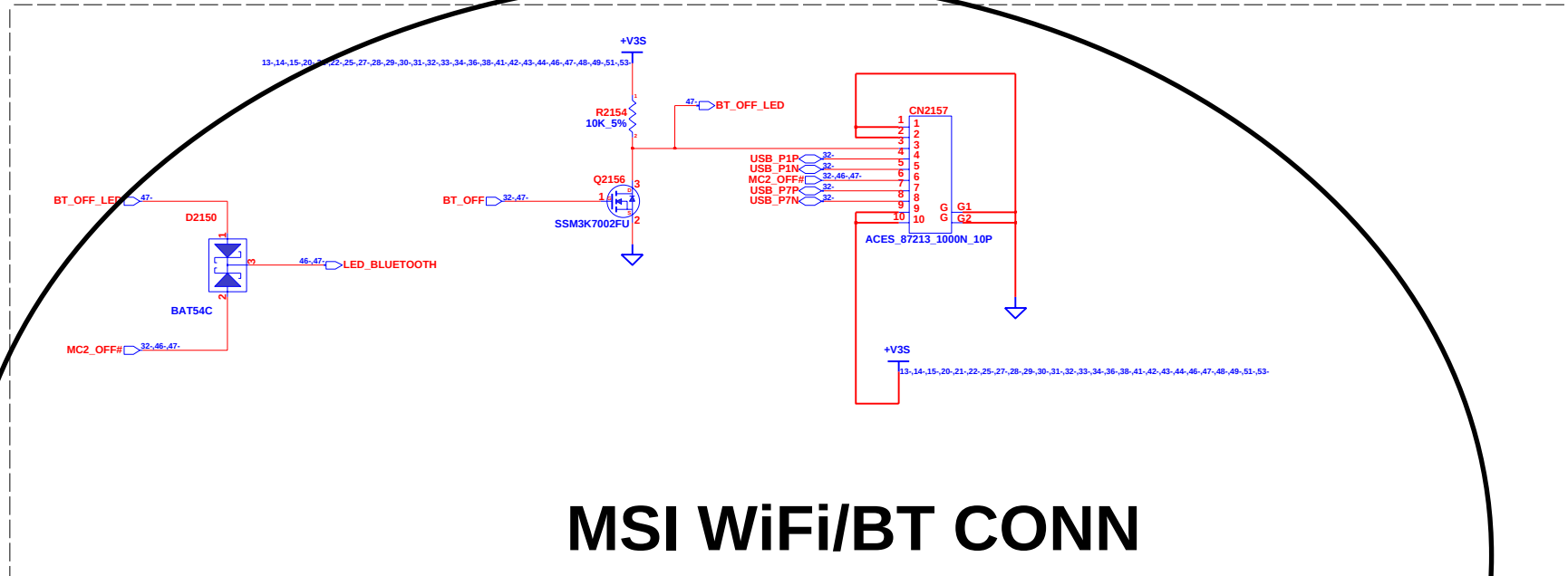
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SIZE A3	CODE CS	DOC. NUMBER 1310A23446-0-MT	REV RA02
CHANGE by Jimmy song		9-Feb-2010	
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MSI SKU OPEN
WLAN + Bluetooth SKU INSTALL

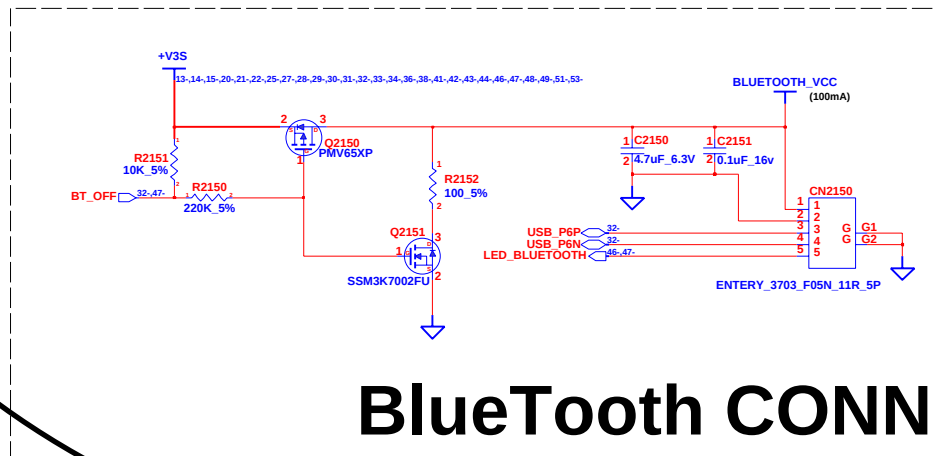


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MSI WiFi/BT CONN

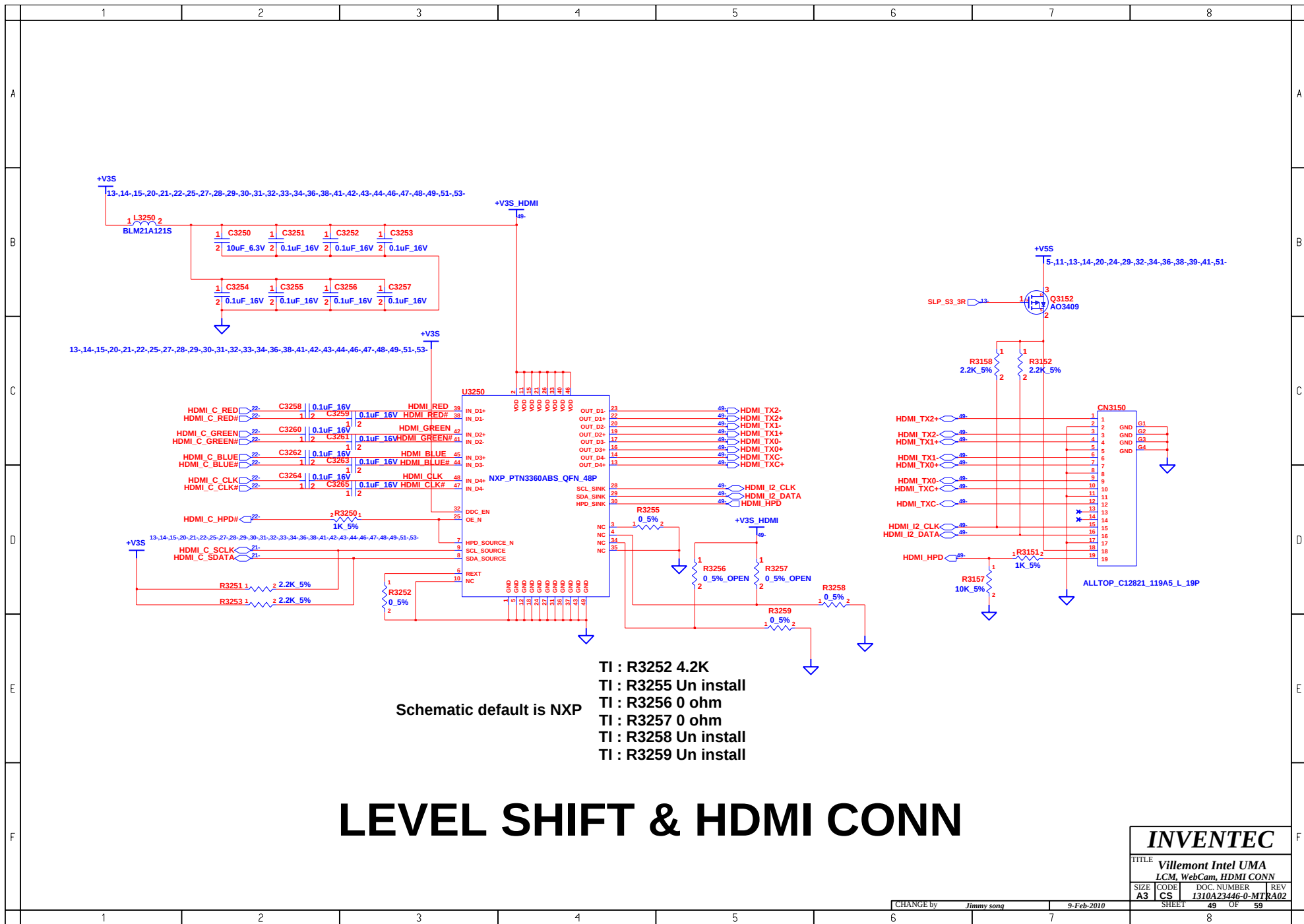
MSI SKU INSTALL
WLAN + Bluetooth SKU OPEN



BlueTooth CONN

MSI SKU OPEN
WLAN + Bluetooth SKU INSTALL

INVENTEC			
TITLE Villemont Intel UMA Bluetooth CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A23446-0-MTR	REV RA02
CHANGE by Jimmy song		9-Feb-2010	
SHEET 47		OF 59	

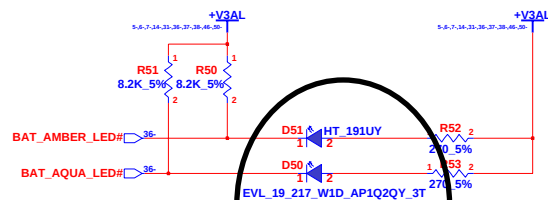


Schematic default is NXP

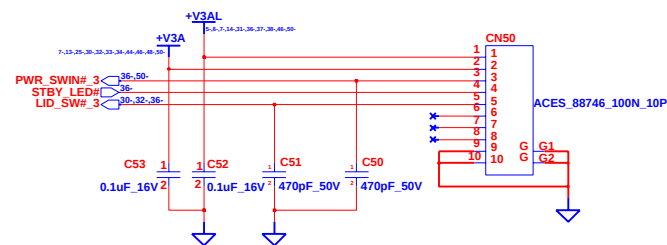
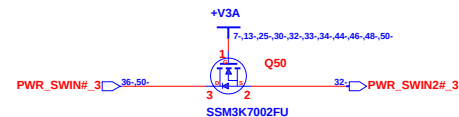
- TI : R3252 4.2K
- TI : R3255 Un install
- TI : R3256 0 ohm
- TI : R3257 0 ohm
- TI : R3258 Un install
- TI : R3259 Un install

LEVEL SHIFT & HDMI CONN

INVENTEC			
TITLE Villemont Intel UMA			
LCM, WebCam, HDMI CONN			
SIZE A3	CODE CS	DOC. NUMBER I310AZ3446-0-MT	REV RA02
SHEET 49		OF 59	

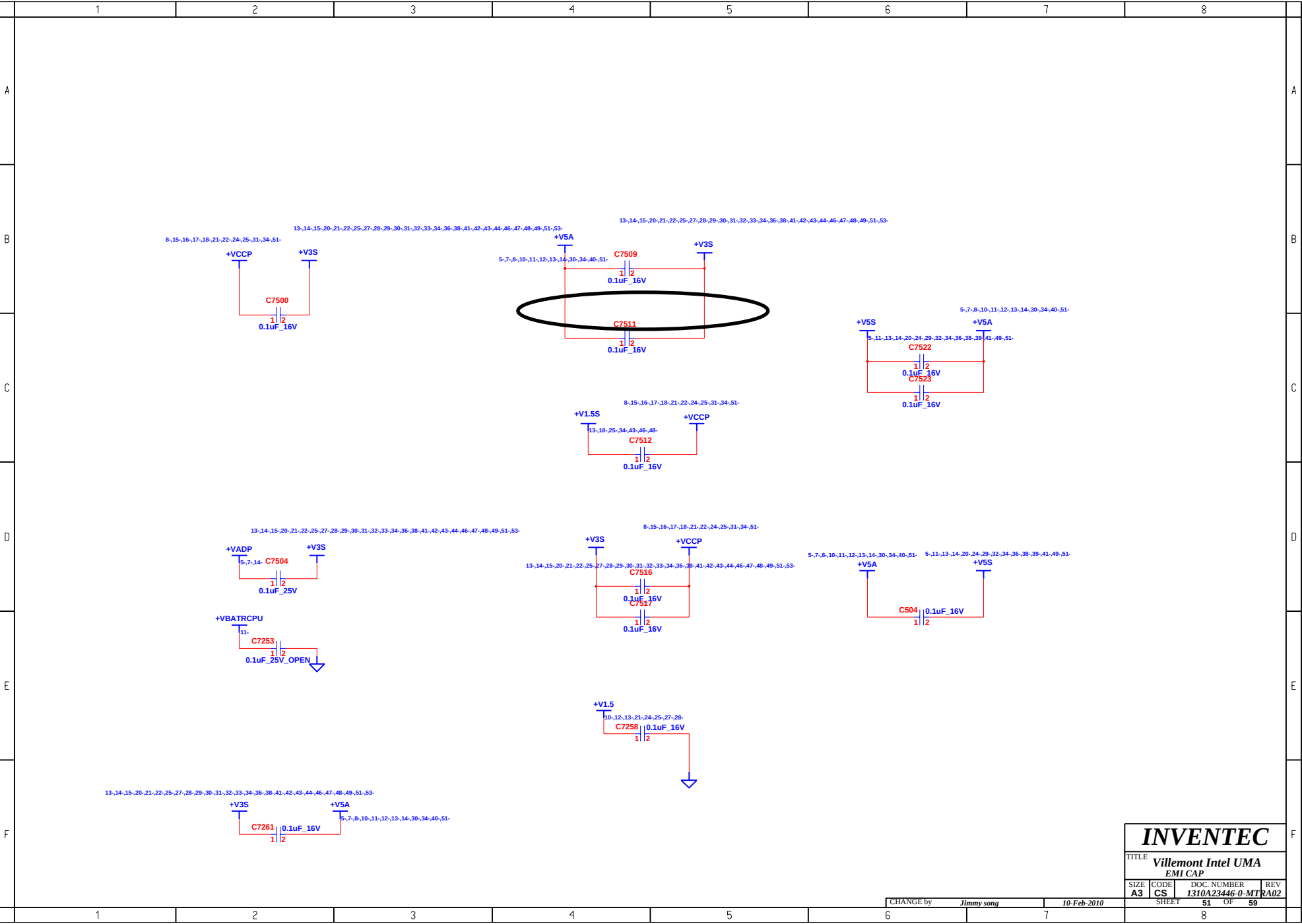


Battery Charge LED



Switch B/B CONN

INVENTEC			
TITLE Villemont Intel UMA LEDs			
SIZE A3	CODE CS	DOC. NUMBER 1310AZ3446-0-MT	REV RA02
CHANGE by Jimmy song		9-Feb-2010	
SHEET 50		OF 59	



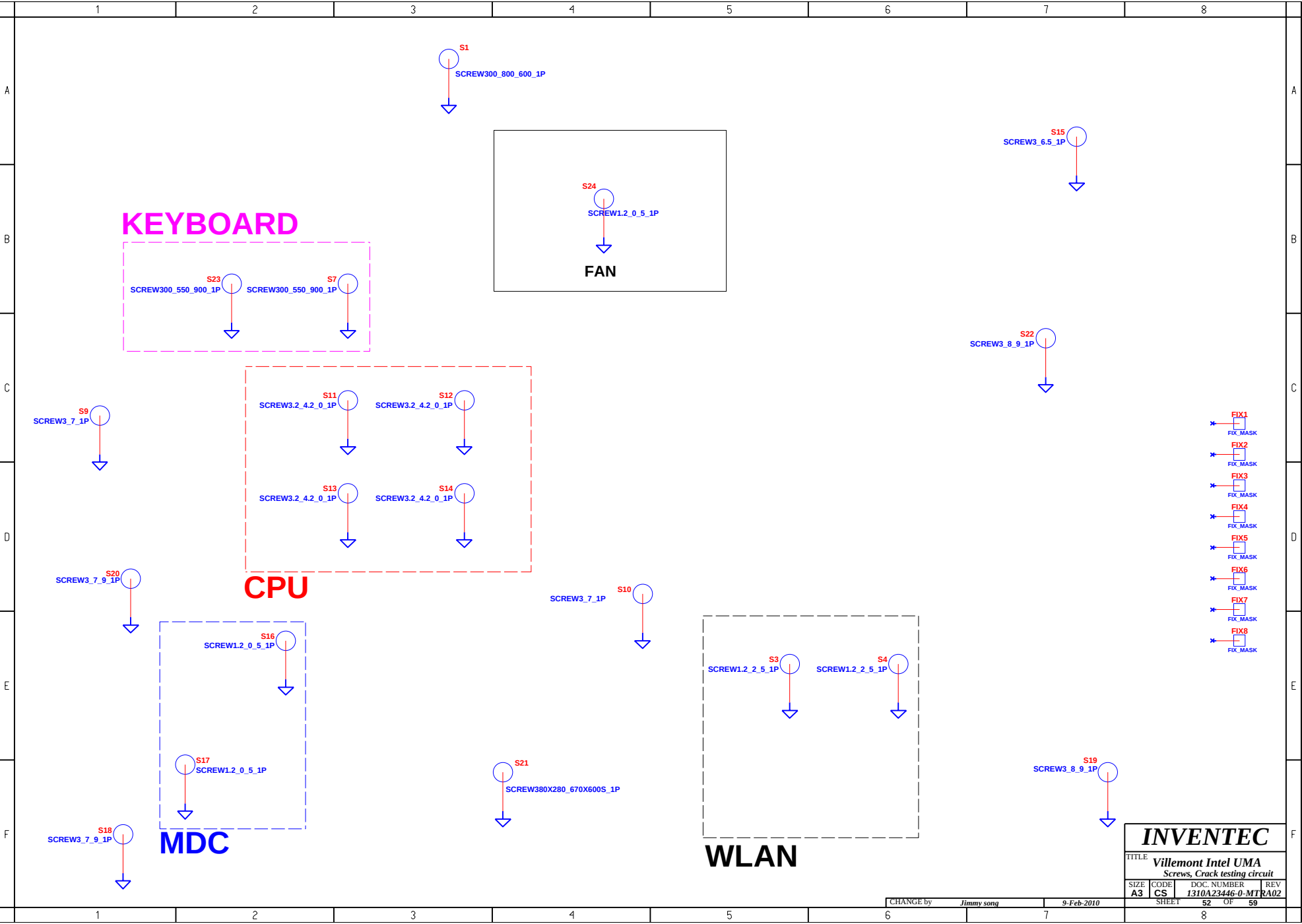
INVENTEC

TITLE
Villemont Intel UMA
EMI CAP

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3446-0-MT	RA02

CHANGE by Jimmy song 10-Feb-2010

SHEET 51 OF 59



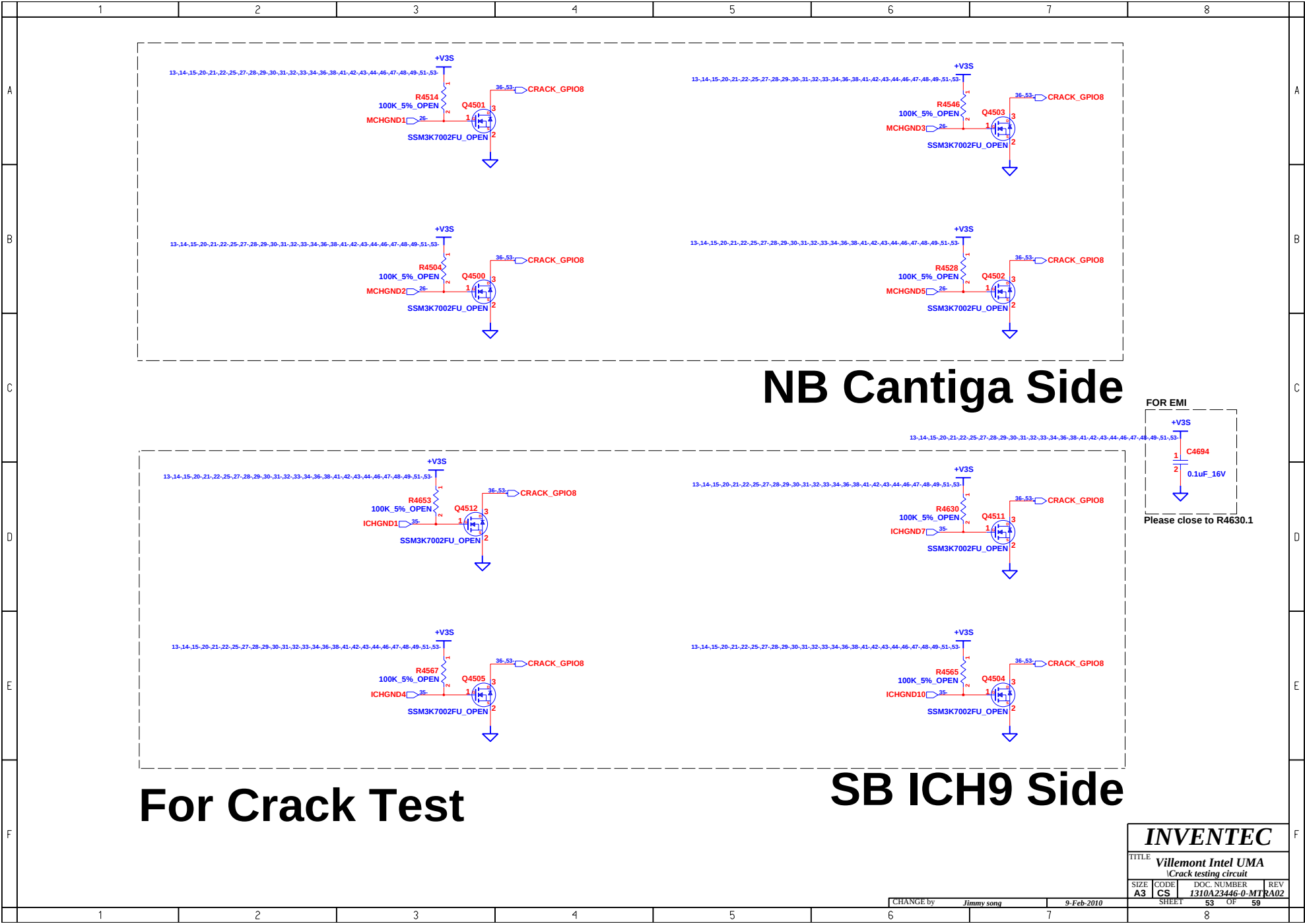
INVENTEC

TITLE
Villemont Intel UMA
Screws, Crack testing circuit

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3446-0-MT	RA02

CHANGE by Jimmy song 9-Feb-2010

SHEET 52 OF 59



SD/MMC CARD READER

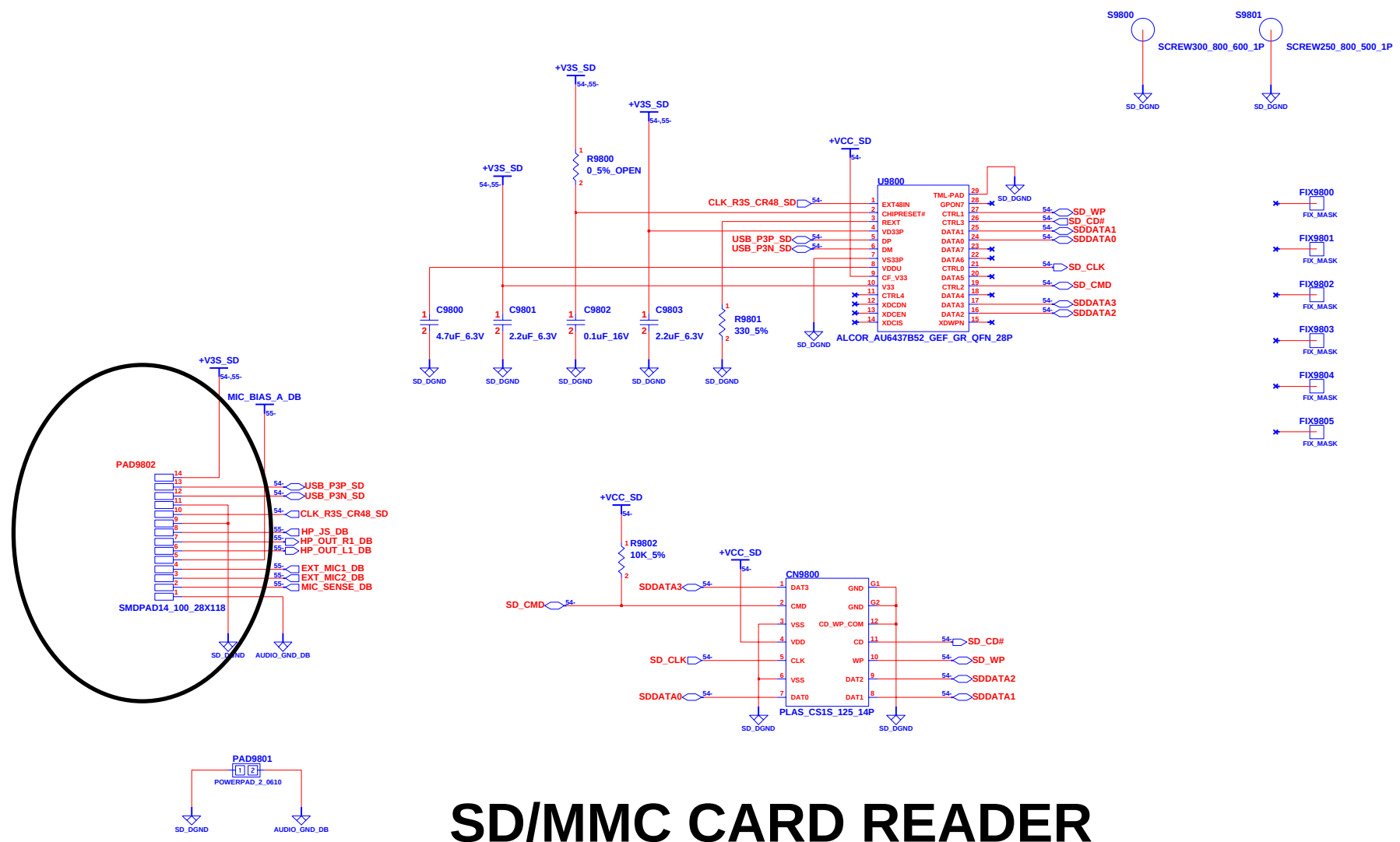
INVENTEC

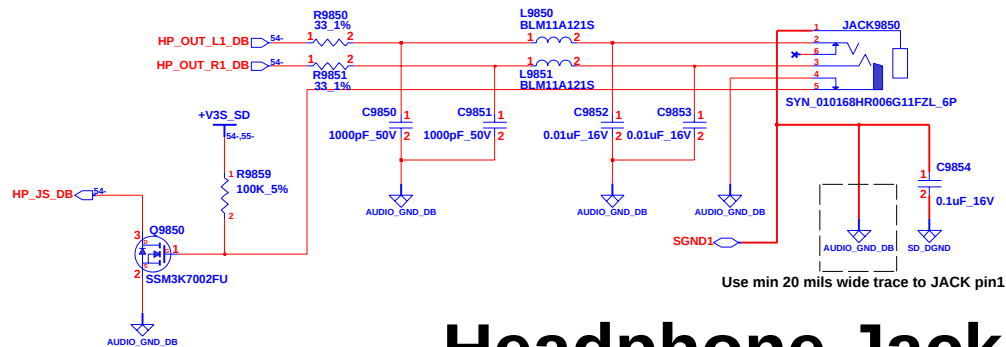
TITLE
Villemont Intel UMA
SD/MMC CARD READER

SIZE A3	CODE CS	DOC. NUMBER I310A23446-0-MT	REV RA02
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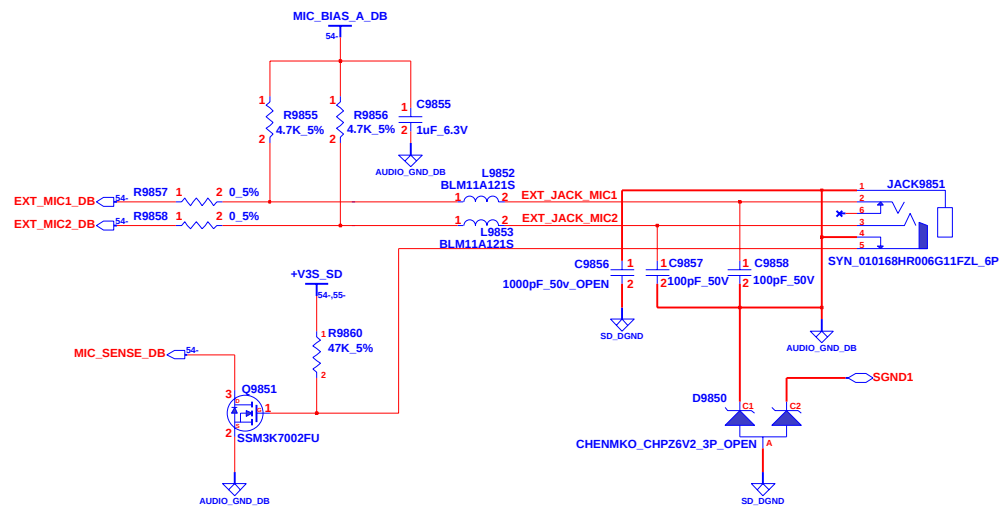
CHANGE by *Jimmy song* 9-Feb-2010

SHEET 54 OF 59



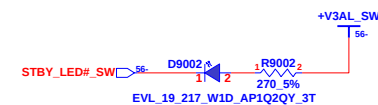
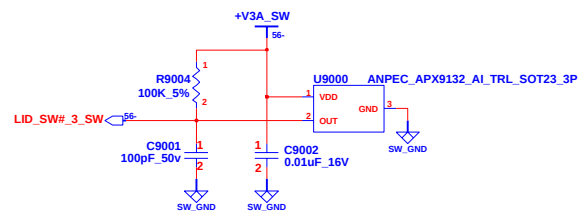
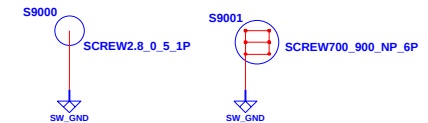
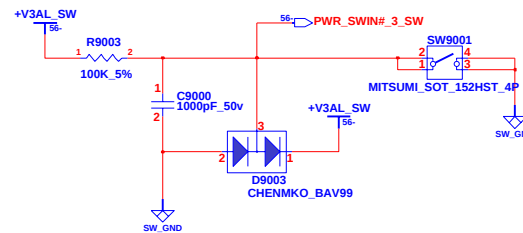
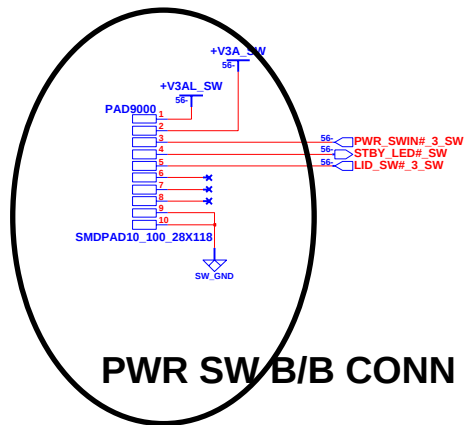


Headphone Jack



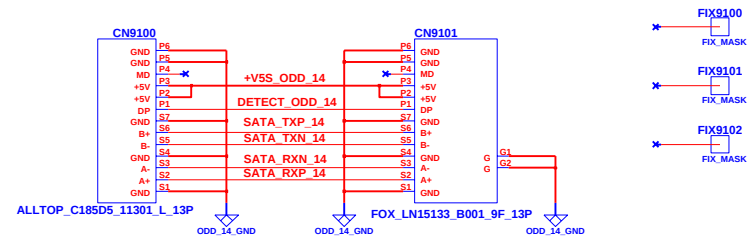
MIC Jack

INVENTEC			
TITLE Villemont Intel UMA HEADPHONE & MIC JACK			
SIZE A3	CODE CS	DOC. NUMBER I310A23446-0-MT	REV RA02
CHANGE by Jimmy song		9-Feb-2010	
SHEET 55		OF 59	



Power Button & LID Switch Board

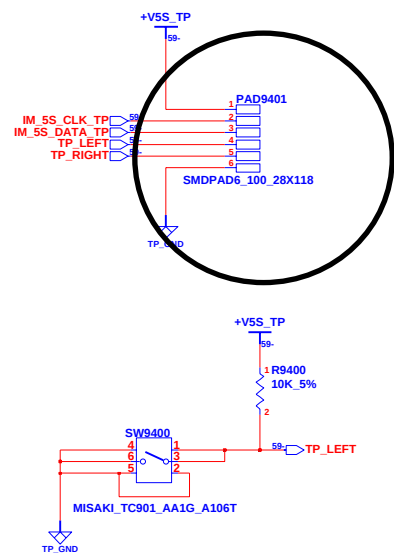
INVENTEC			
TITLE Villemont Intel UMA HEADPHONE & MIC JACK			
SIZE A3	CODE CS	DOC. NUMBER I310A23446-0-MT	REV RA02
CHANGE by Jimmy song		9-Feb-2010	
SHEET 56		OF 59	



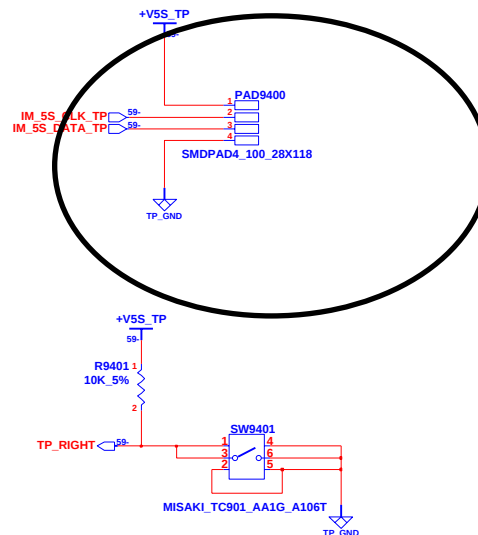
14''ODD Extend Board

INVENTEC			
TITLE			
Villemont Intel UMA HEADPHONE & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23446-0-MTR	A02
CHANGE by		9-Feb-2010	
SHEET		57	OF 59

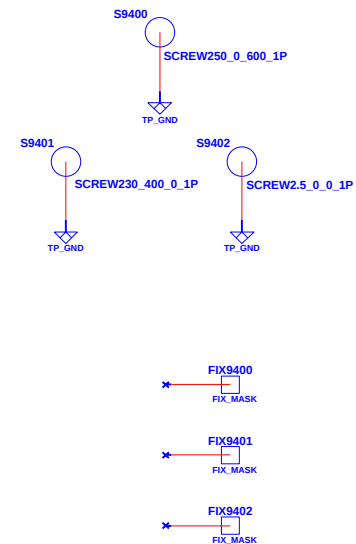




LEFT BUTTON



RIGHT BUTTON



PICK Button Board

INVENTEC			
TITLE: Villemont Intel UMA HEADPHONE & MIC JACK			
SIZE: A3	CODE: CS	DOC. NUMBER: I310A23446-0-MT	REV: RA02
CHANGE by: Jimmy song		9-Feb-2010	
SHEET: 59		OF: 59	