

DDD Discrete GDDR2 PV Build

2007.06.15

DATE	CHANGE NO.	REV

DRAWN	EE	DATE	POWER	DATE	INVENTEC			
DESIGN					TITLE			
CHECK					DDD Discrete			
RESPONSIBLE								
SIZE =	3	VER :			SIZE	CODE	DOC. NUMBER	REV
FILE NAME :	XXXX-XXXXXX-XX				A3	CS	Model No	A01
P/N	XXXXXXXXXXXX				SHEET	1	OF	55

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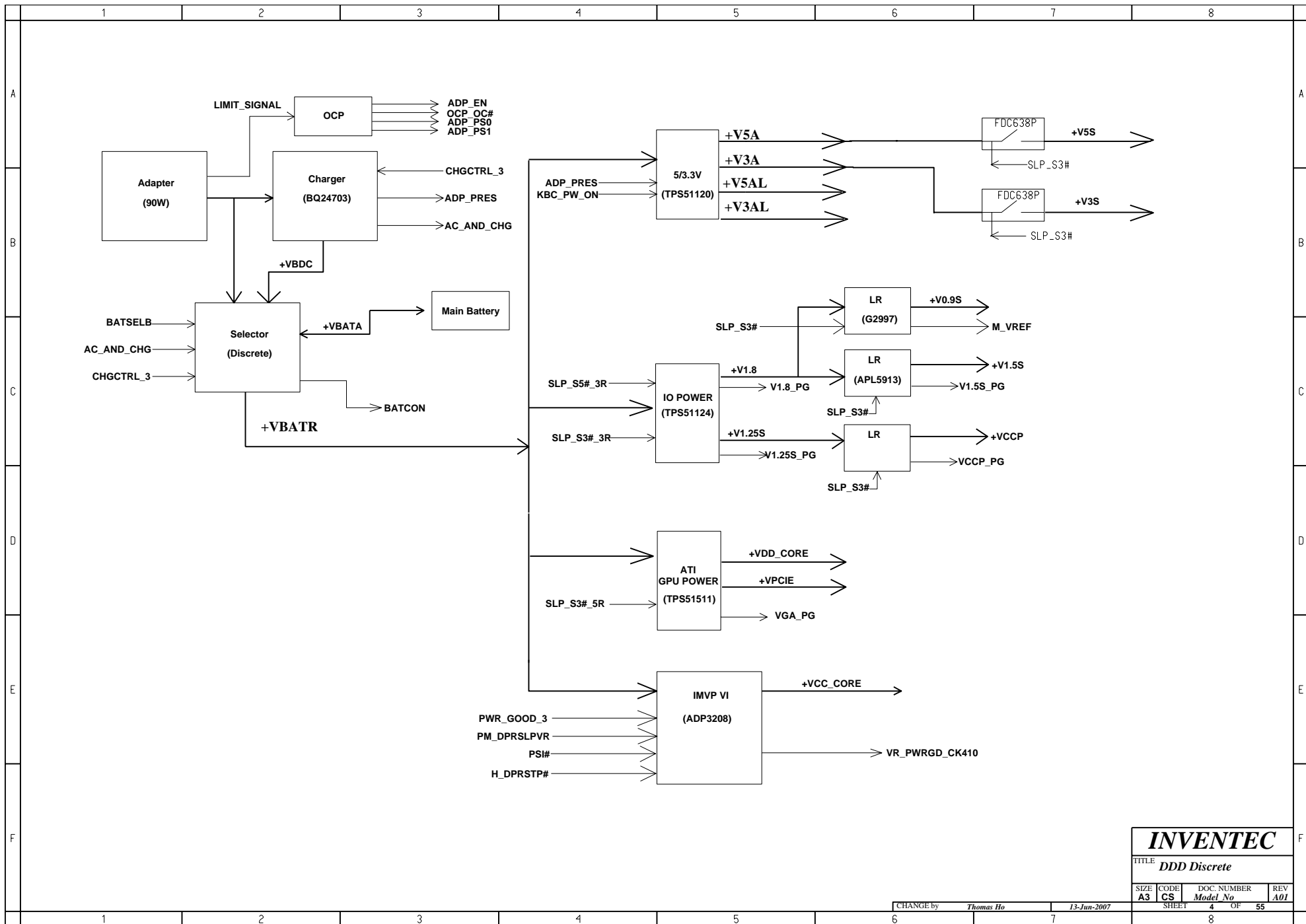
INVENTEC

TITLE *DDD Discrete*

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Thomas Ho* 13-Jun-2007

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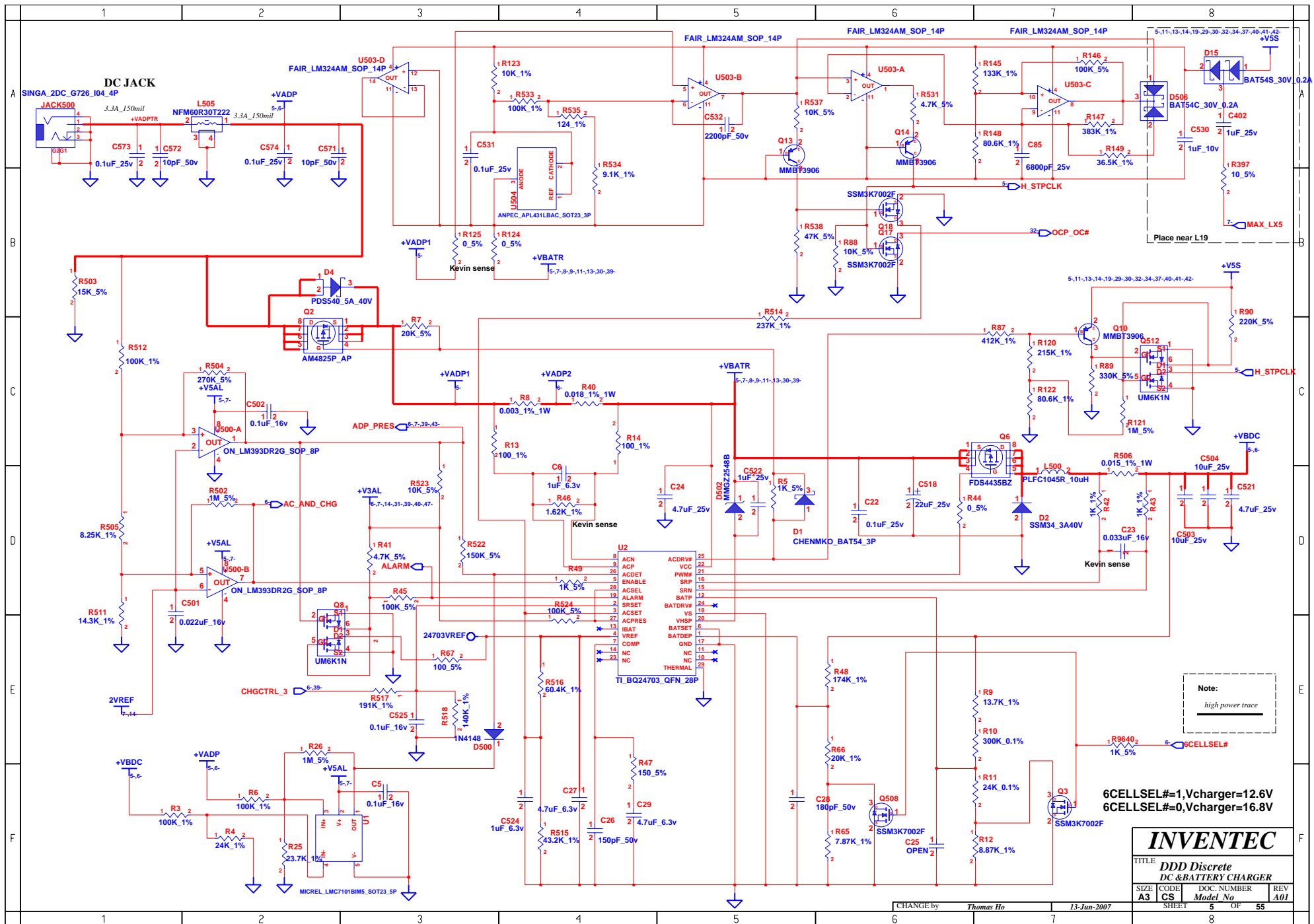
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TITLE **DDD Discrete**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Thomas Ho* 13-Jun-2007

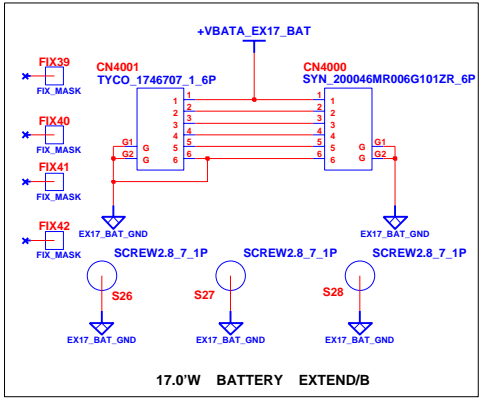
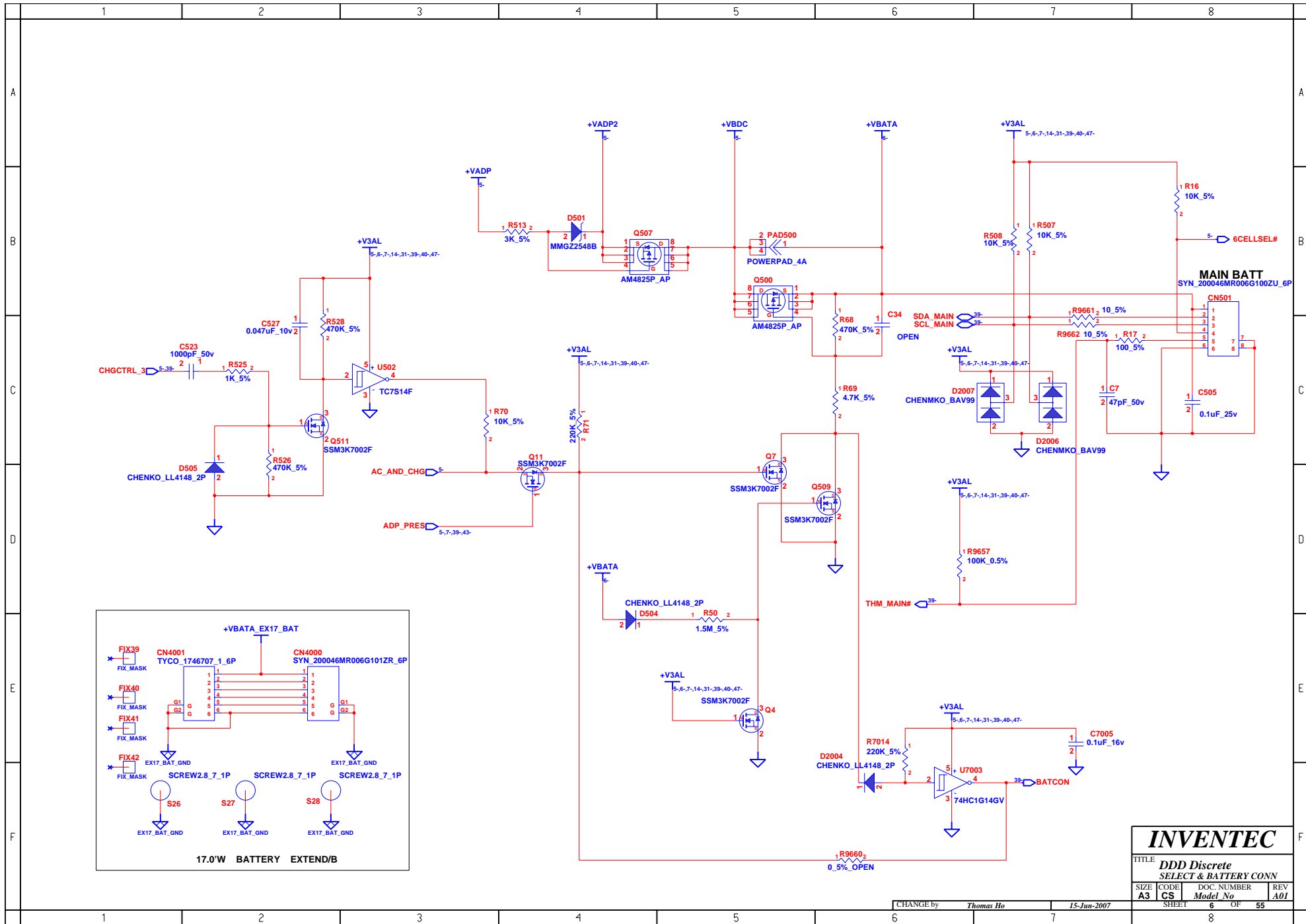
SHEET 4 OF 55



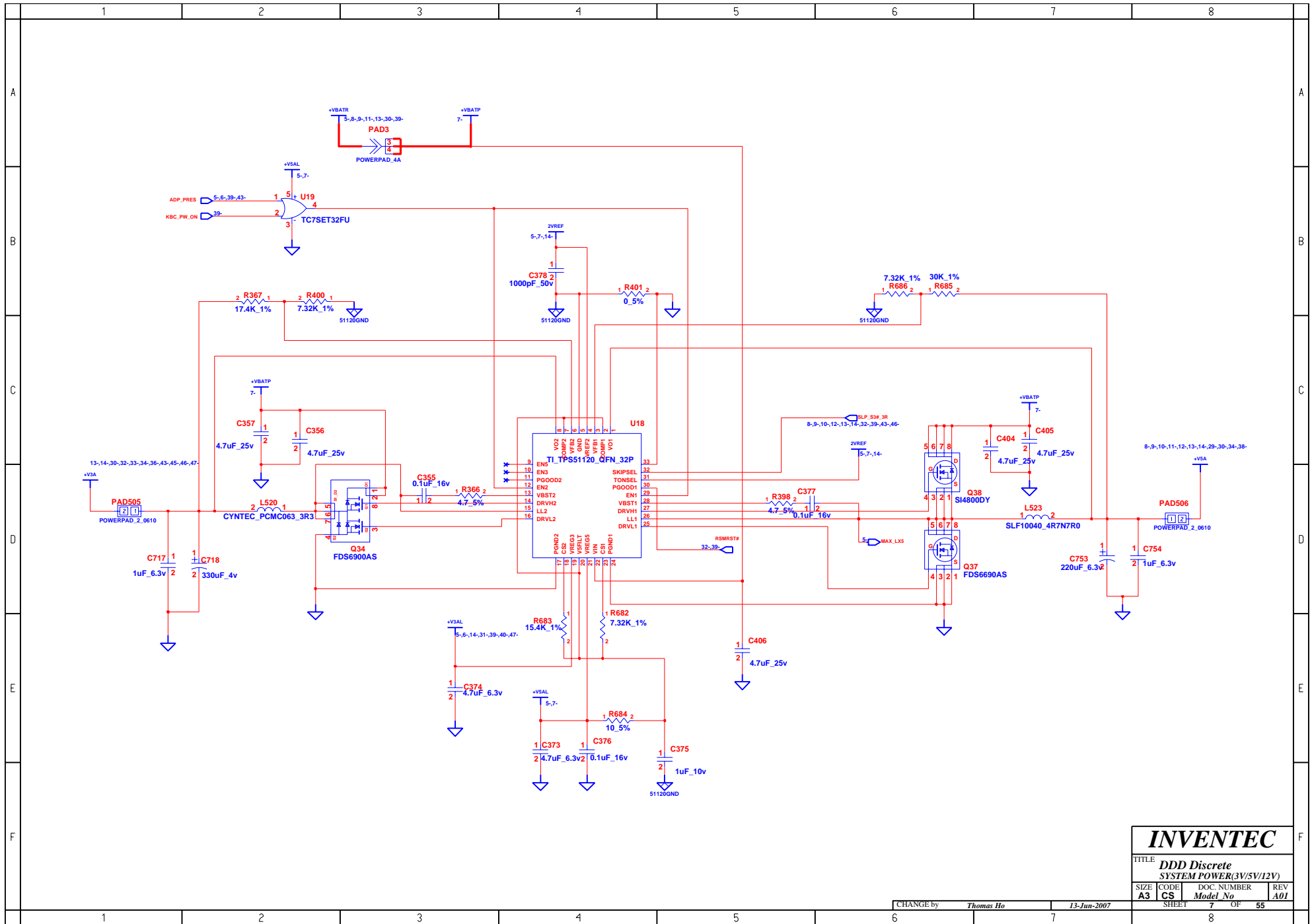
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INVENTEC

TITLE			
DDD Discrete			
DC & BATTERY CHARGER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		A01



INVENTEC			
TITLE DDD Discrete SELECT & BATTERY CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by Thomas Ho		15-Jun-2007	
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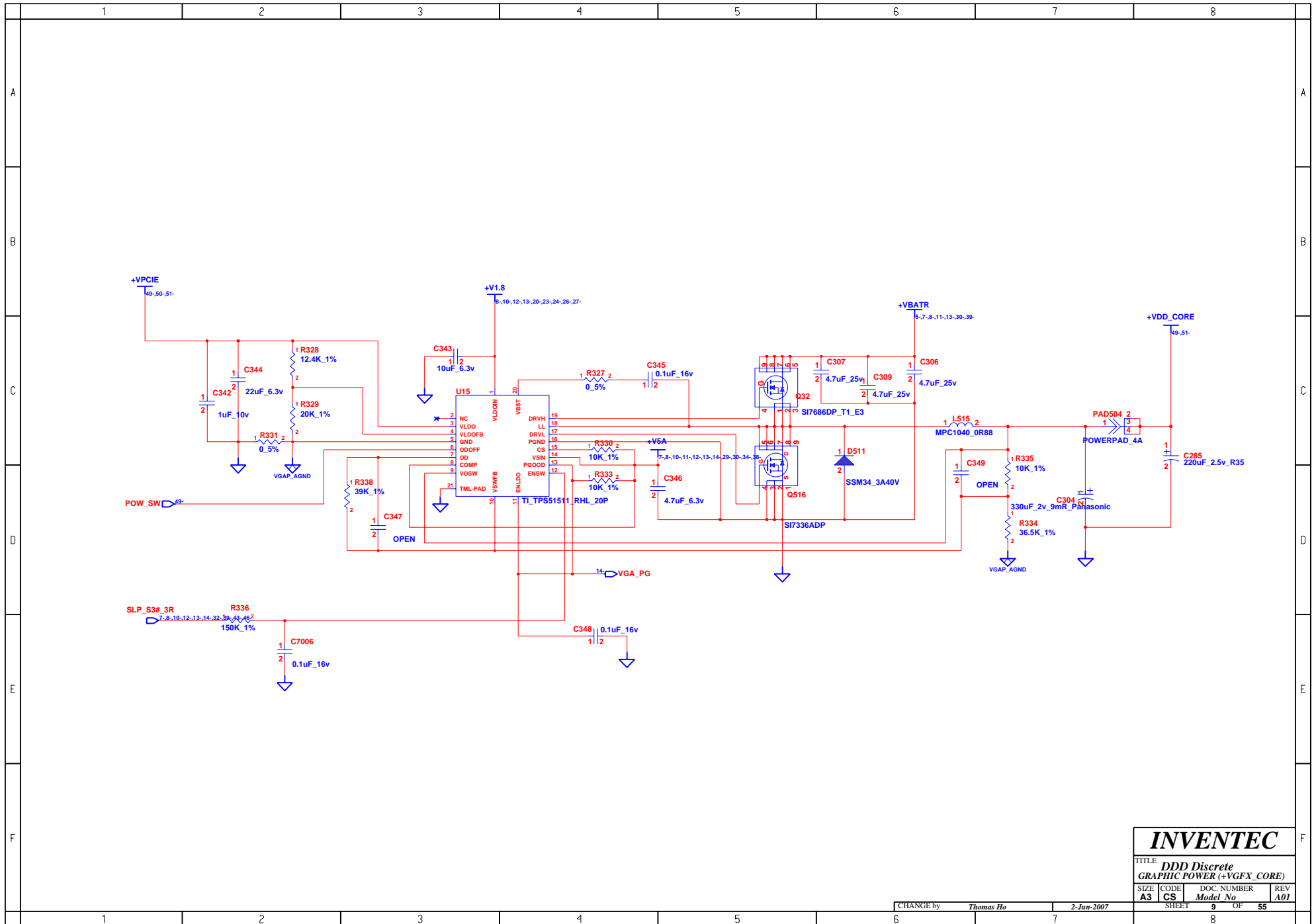


INVENTEC

TITLE
DDD Discrete
SYSTEM POWER(3V/SV/12V)

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A3	CS	Model No	A01

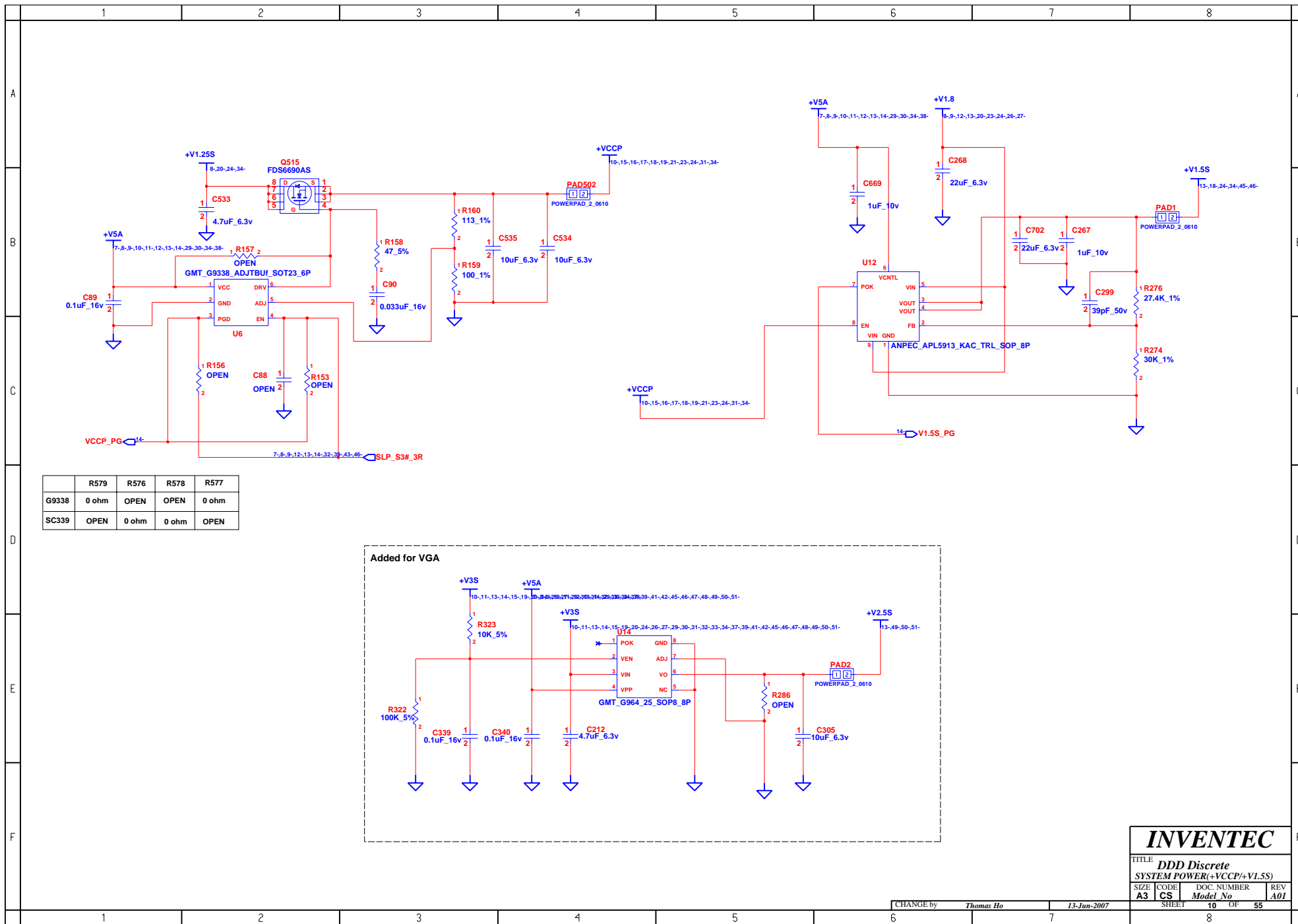
CHANGE by *Thomas Ho* 13-Jun-2007 SHEET 7 OF 55



INVENTEC

TITLE			
DDD Discrete			
GRAPHIC POWER (+VGF_X_CORE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by	Thomas Ho	2-Jun-2007	SHEET	9	OF	55	
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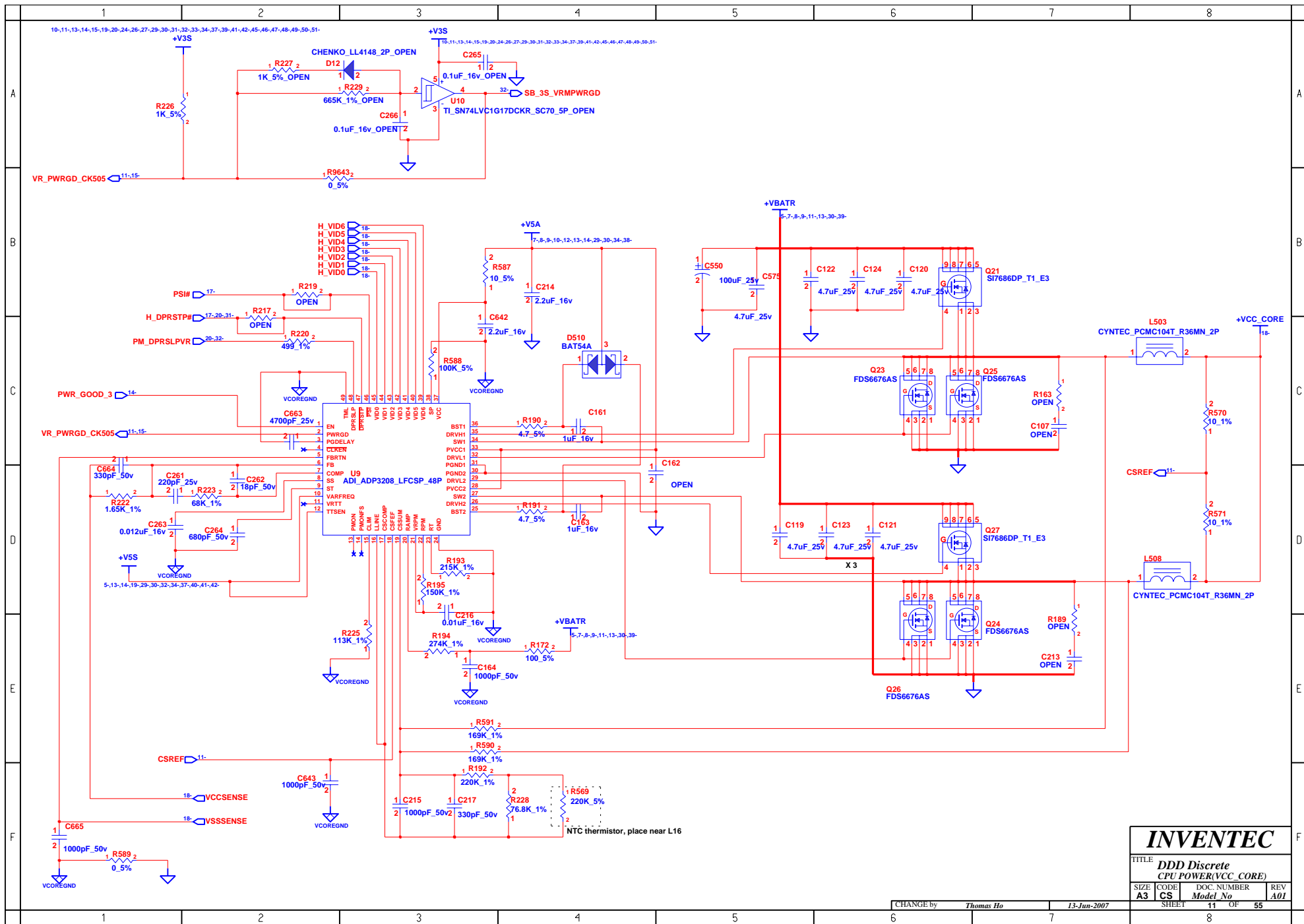


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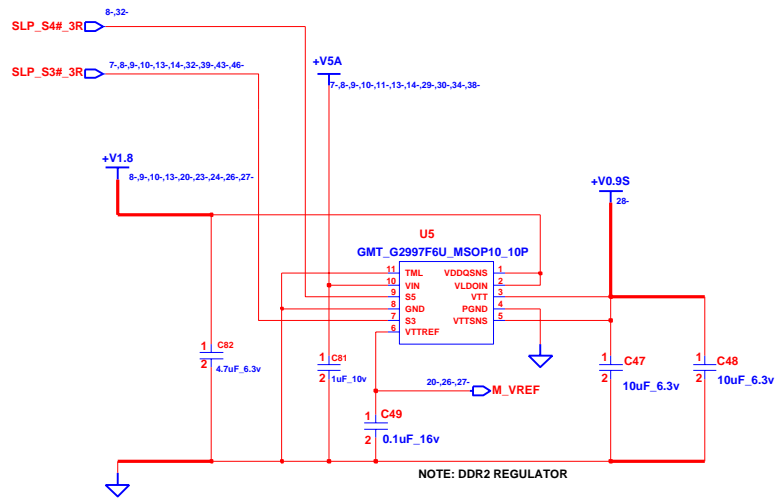
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SYSTEM POWER(+VCCP/+V1.5S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Thomas Ho 13-Jun-2007

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INVENTEC			
TITLE: DDD Discrete CPU POWER(VCC_CORE)			
SIZE: A3	CODE: CS	DOC. NUMBER: Model No	REV: A01
CHANGE by: Thomas Ho	13-Jun-2007	SHEET: 11	OF: 55



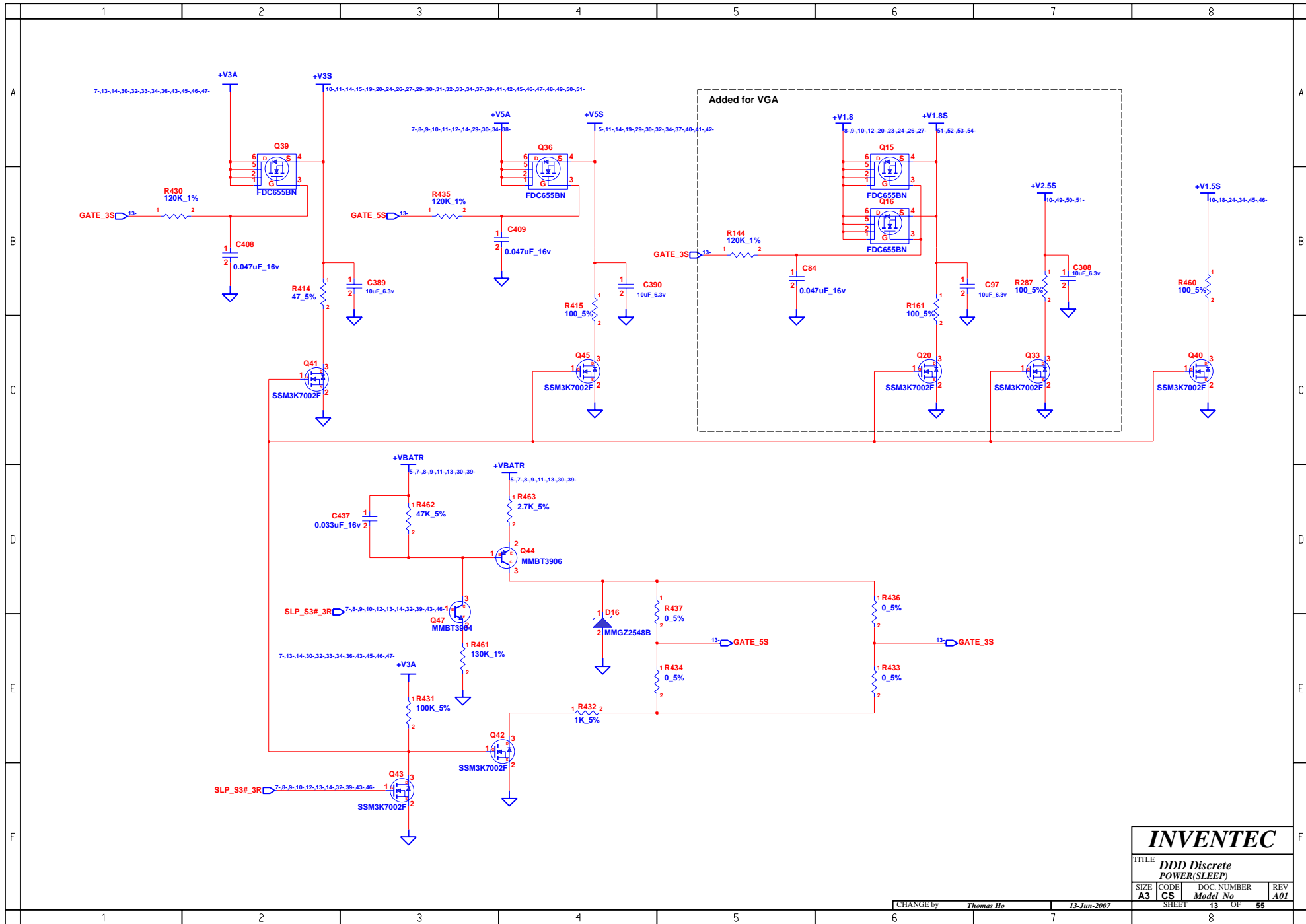
INVENTEC

TITLE			
DDD Discrete			
DDR TERMINATION VOLTAGE			
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A3	CS	Model No	A01

CHANGE by *Thomas Ho* 2-Jun-2007

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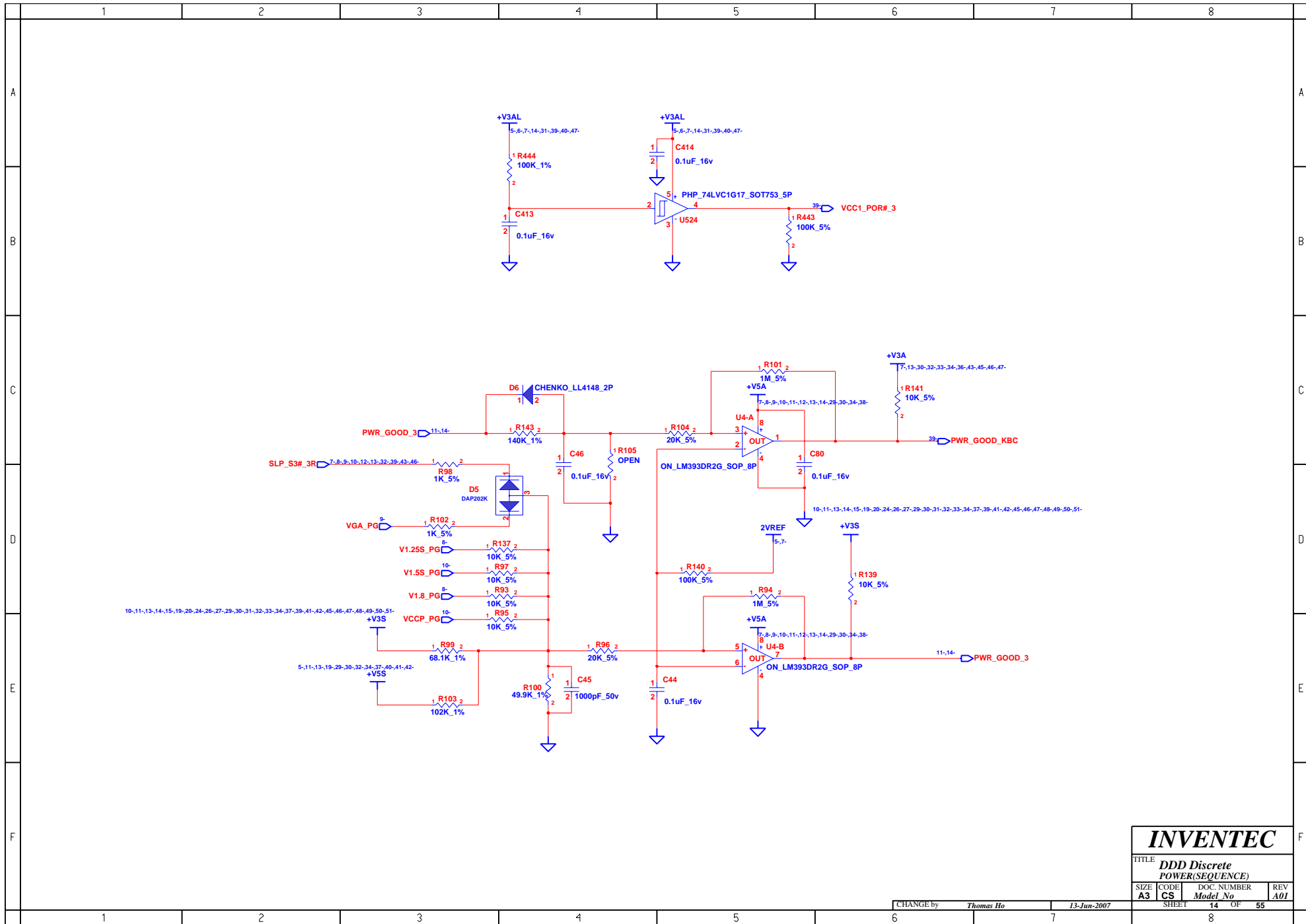
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A							A
B							B
C							C
D							D
E							E
F							F
1	2	3	4	5	6	7	8



INVENTEC

TITLE			
DDD Discrete POWER(SLEEP)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by	Thomas Ho	13-Jun-2007	SHEET	13	OF	55
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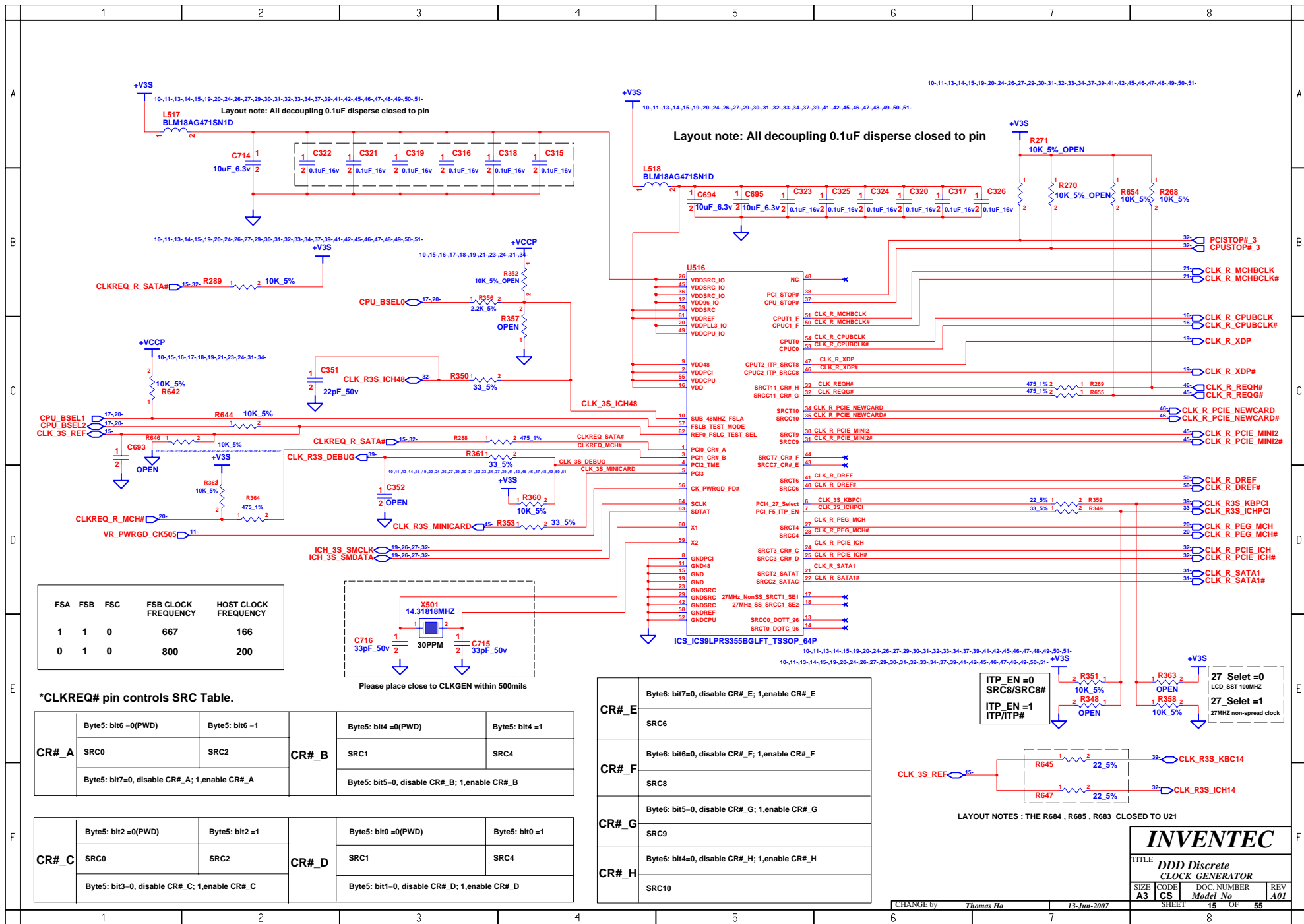


INVENTEC

TITLE
**DDD Discrete
 POWER(SEQUENCE)**

SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV A01
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CHANGE by *Thomas Ho* 13-Jun-2007 SHEET 14 OF 55



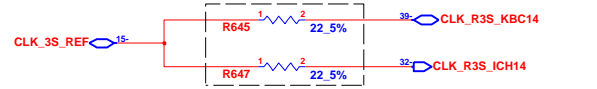
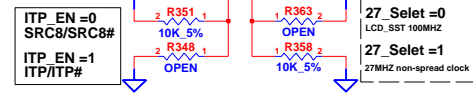
FSA	FSB	FSC	FSB CLOCK FREQUENCY	HOST CLOCK FREQUENCY
1	1	0	667	166
0	1	0	800	200

*CLKREQ# pin controls SRC Table.

CR#_A	Byte5: bit6=0(PWD)	Byte5: bit6=1	CR#_B	Byte5: bit4=0(PWD)	Byte5: bit4=1
	SRC0	SRC2		SRC1	SRC4
Byte5: bit7=0, disable CR#_A; 1,enable CR#_A			Byte5: bit5=0, disable CR#_B; 1,enable CR#_B		

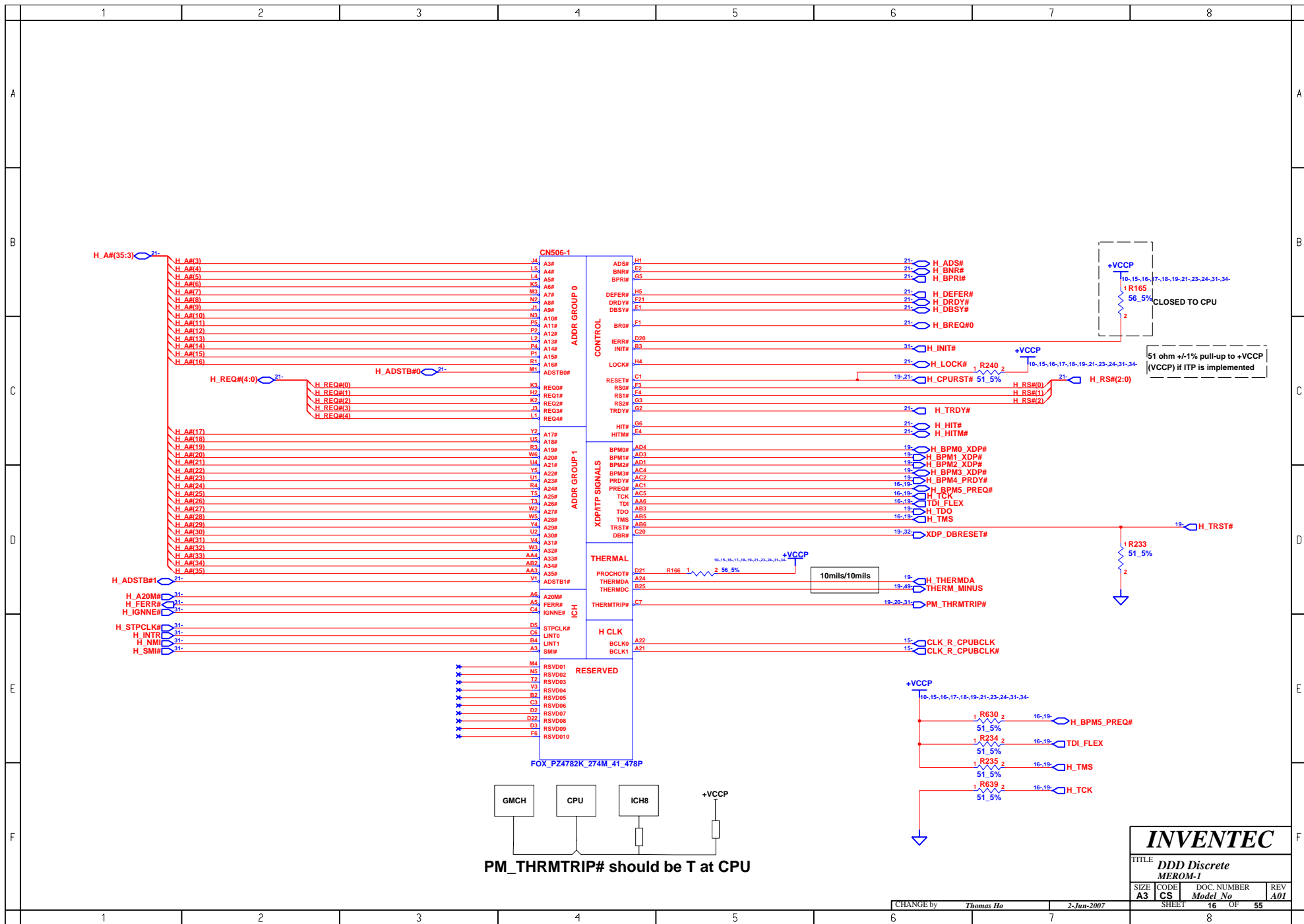
CR#_C	Byte5: bit2=0(PWD)	Byte5: bit2=1	CR#_D	Byte5: bit0=0(PWD)	Byte5: bit0=1
	SRC0	SRC2		SRC1	SRC4
Byte5: bit3=0, disable CR#_C; 1,enable CR#_C			Byte5: bit1=0, disable CR#_D; 1,enable CR#_D		

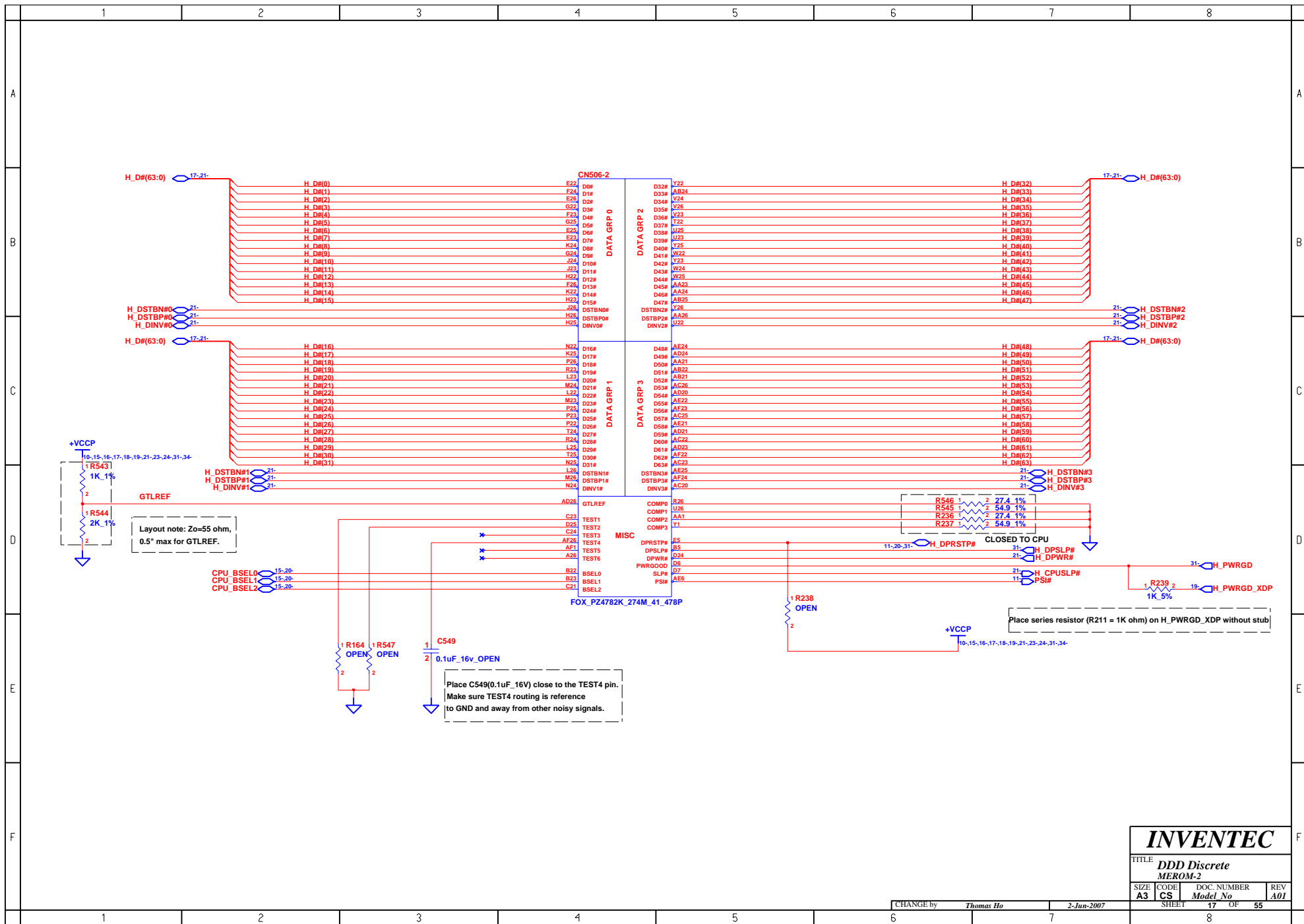
CR#_E	Byte6: bit7=0, disable CR#_E; 1,enable CR#_E	SRC6
CR#_F	Byte6: bit6=0, disable CR#_F; 1,enable CR#_F	SRC8
CR#_G	Byte6: bit5=0, disable CR#_G; 1,enable CR#_G	SRC9
CR#_H	Byte6: bit4=0, disable CR#_H; 1,enable CR#_H	SRC10

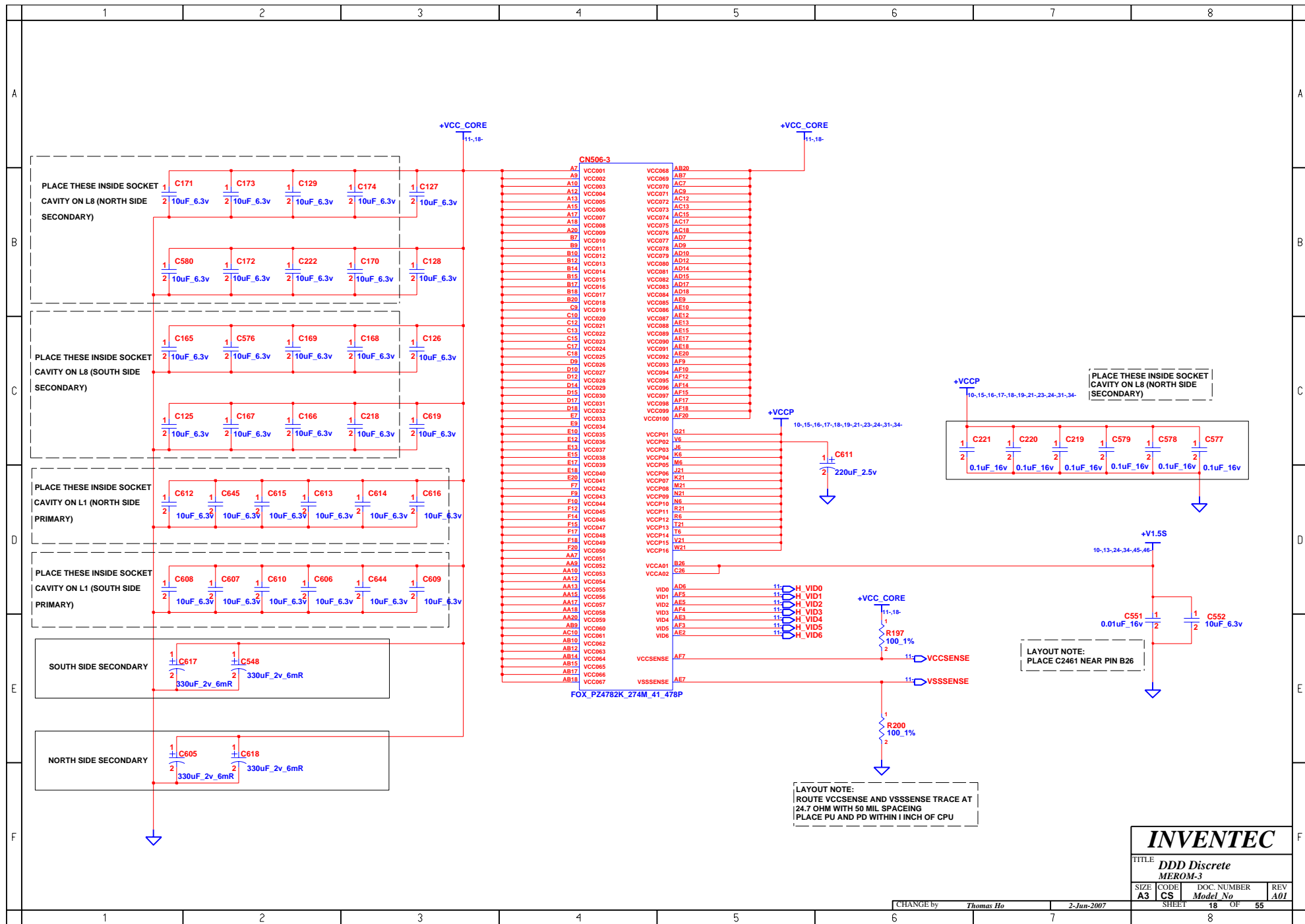


LAYOUT NOTES : THE R684 , R685 , R683 CLOSED TO U21

INVENTEC			
TITLE DDD Discrete CLOCK GENERATOR			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV A01
CHANGE by <i>Thomas Ho</i>		13-Jun-2007	
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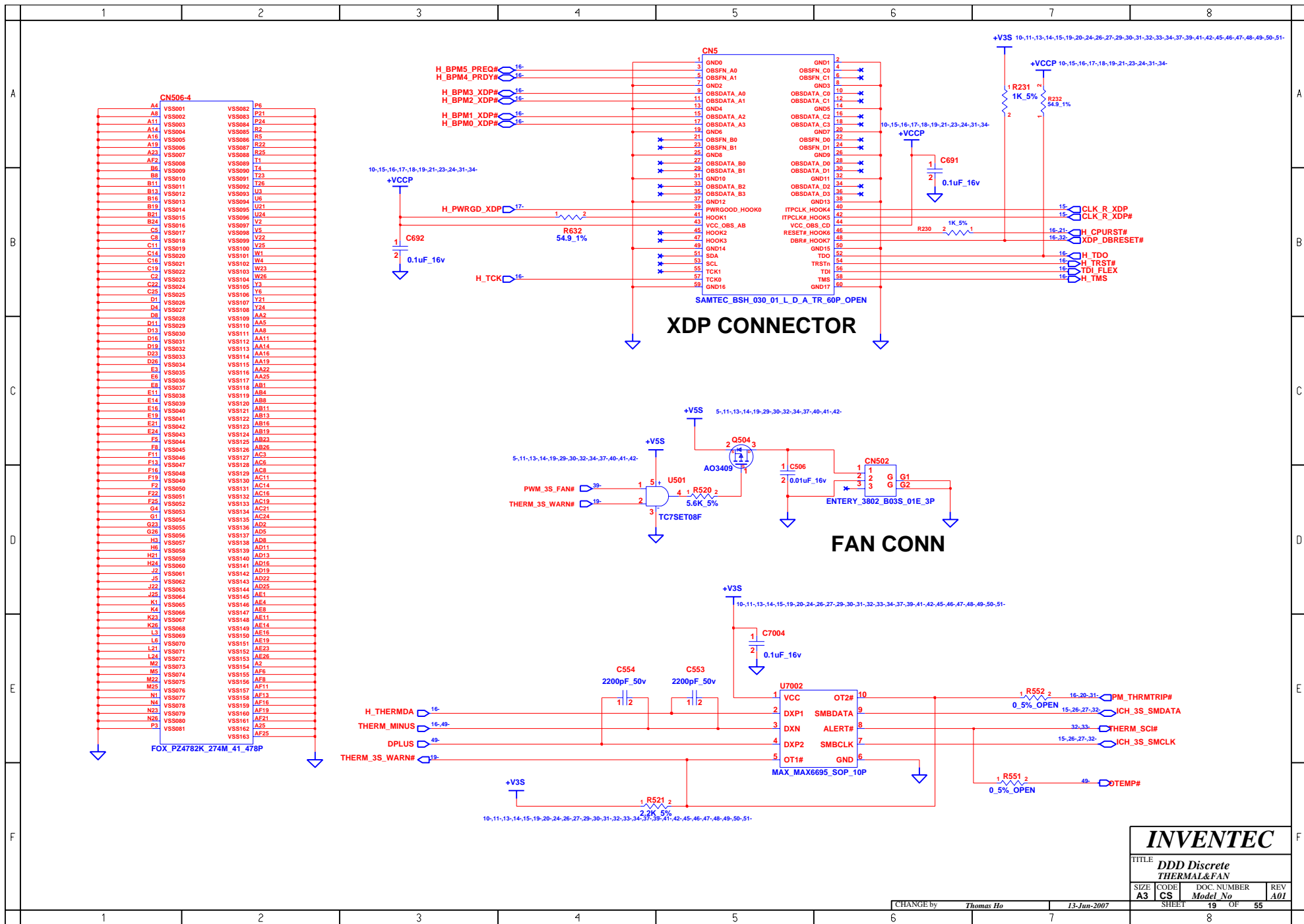




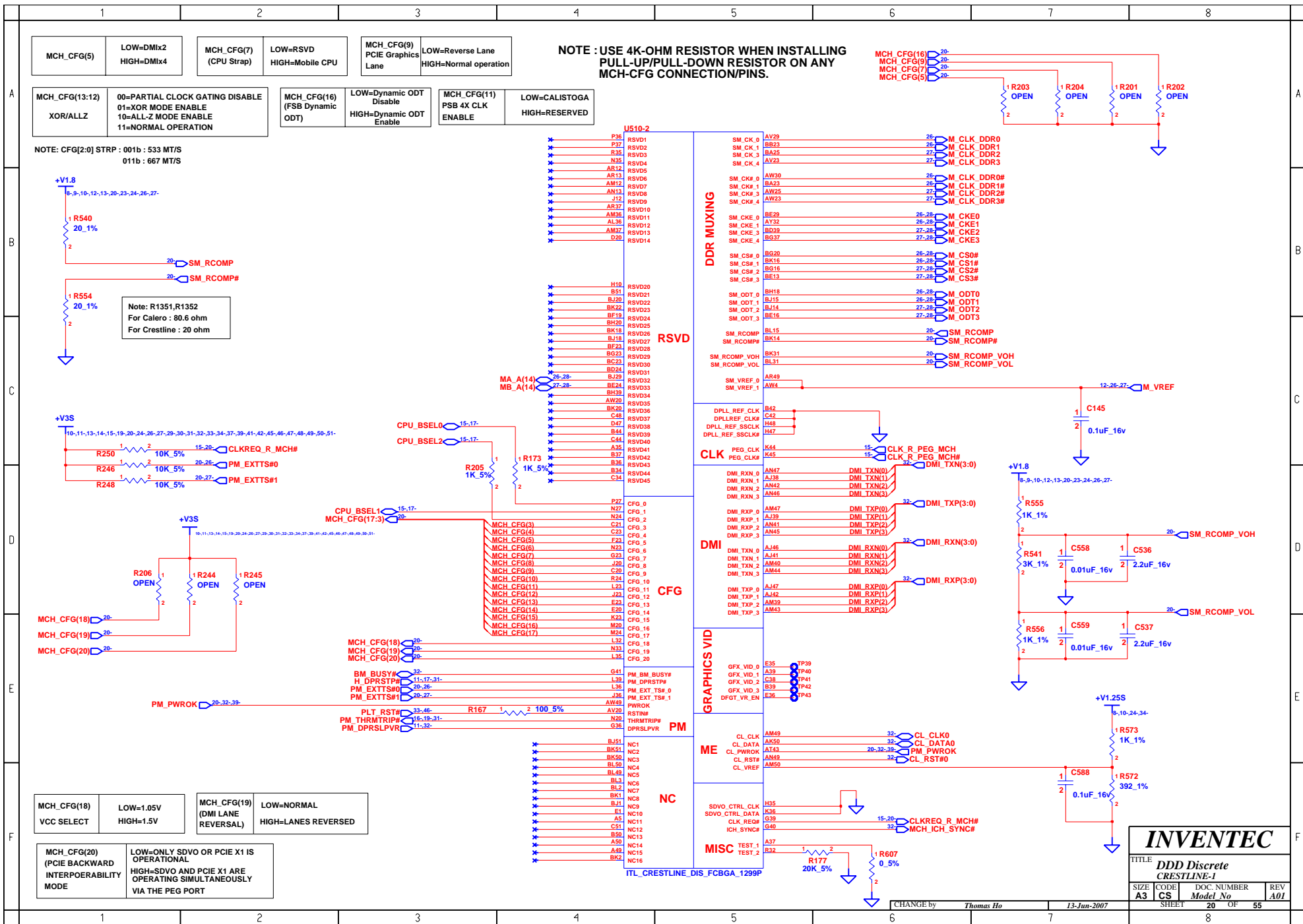


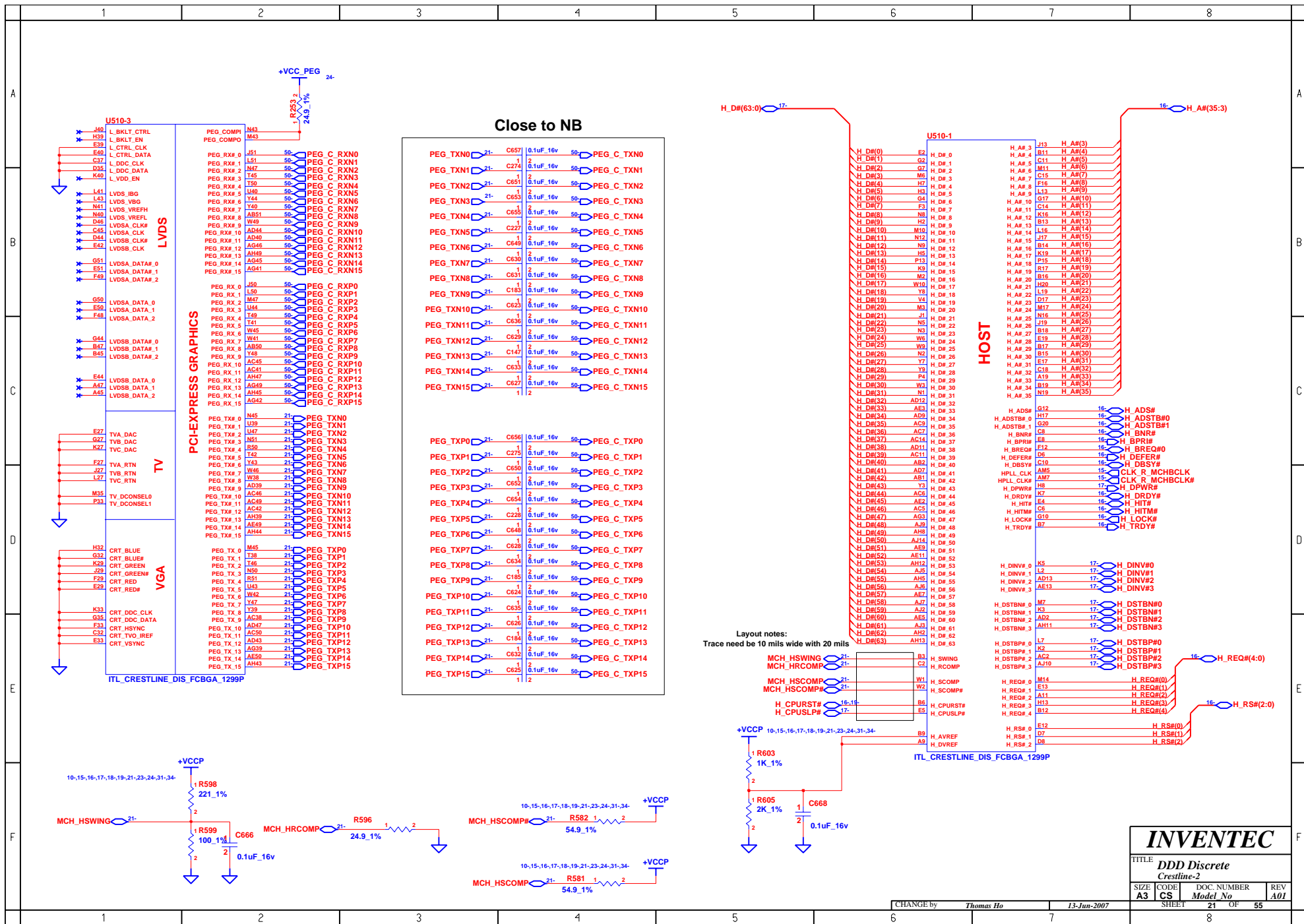
INVENTEC

TITLE			
DDD Discrete			
MEROM-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01
CHANGE by Thomas Ho			2-Jun-2007
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INVENTEC			
TITLE DDD Discrete THERMAL&FAN			
SIZE A3	CODE CS	DOC NUMBER Model No	REV A01
CHANGE by Thomas Ho		13-Jun-2007	
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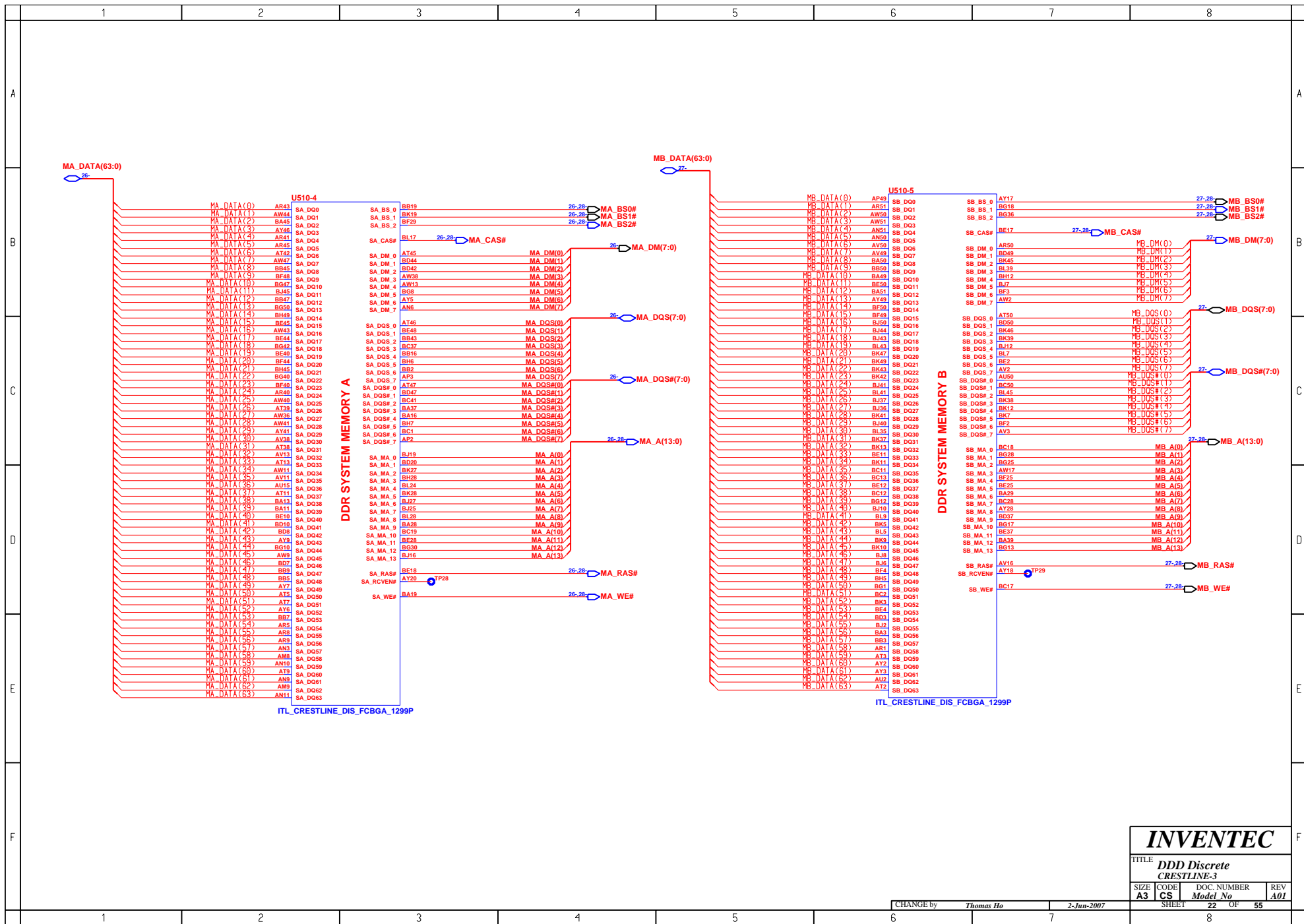
INVENTEC

TITLE: DDD Discrete Crestline-2

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Thomas Ho 13-Jun-2007

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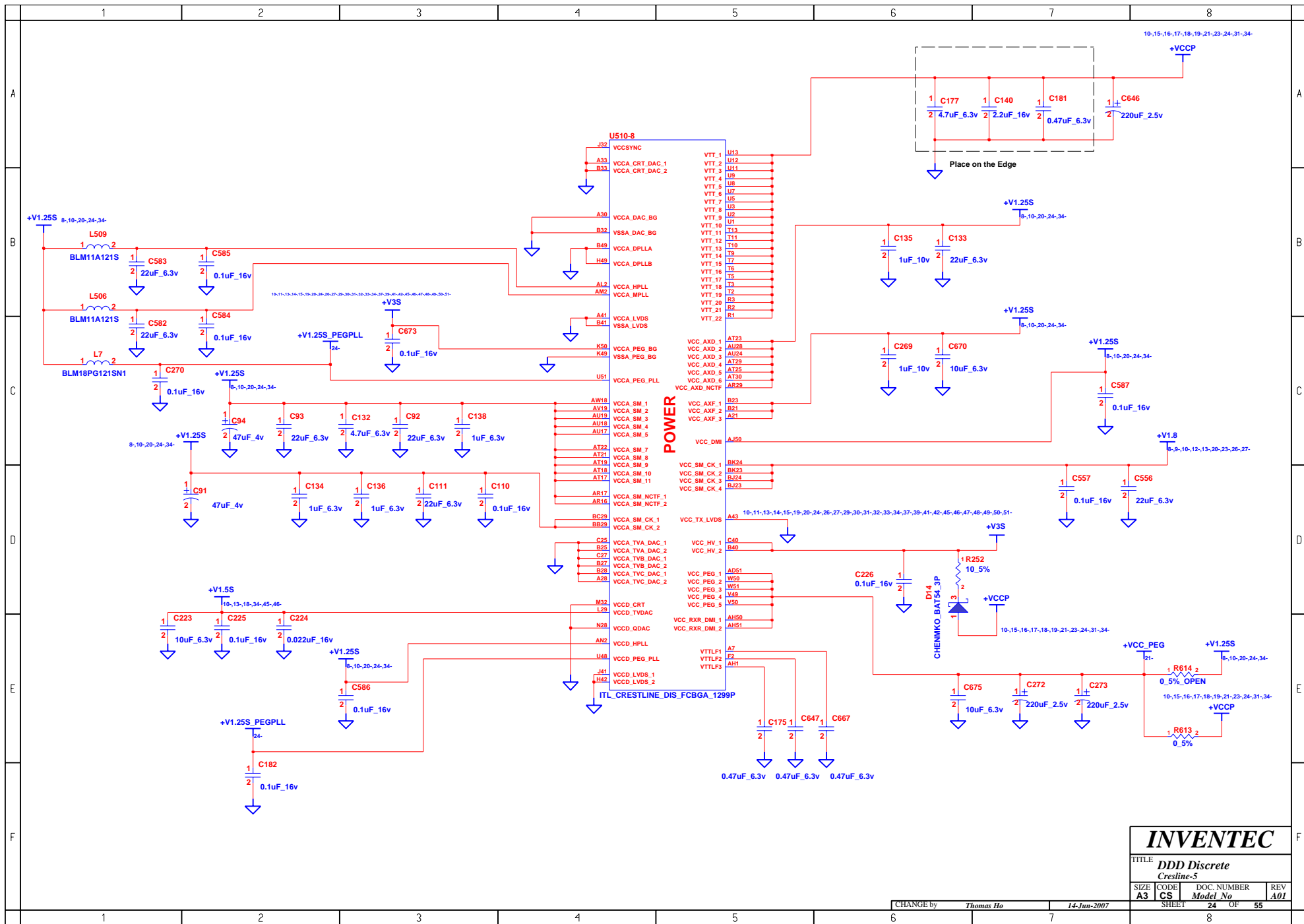


INVENTEC

TITLE
DDD Discrete
CRESTLINE-3

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Thomas Ho* 2-Jun-2007 SHEET 22 OF 55



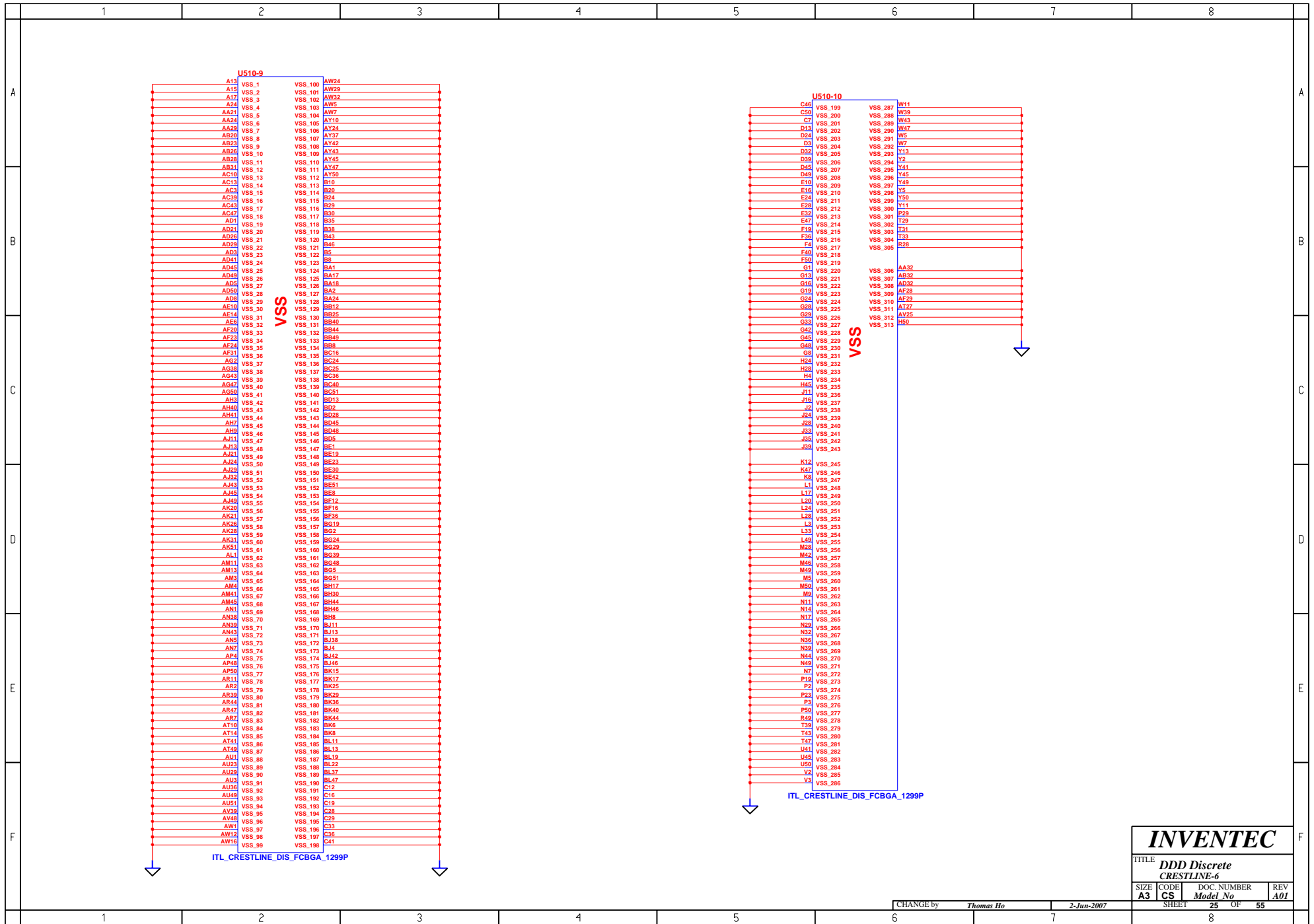
INVENTEC

TITLE
DDD Discrete
Cresline-5

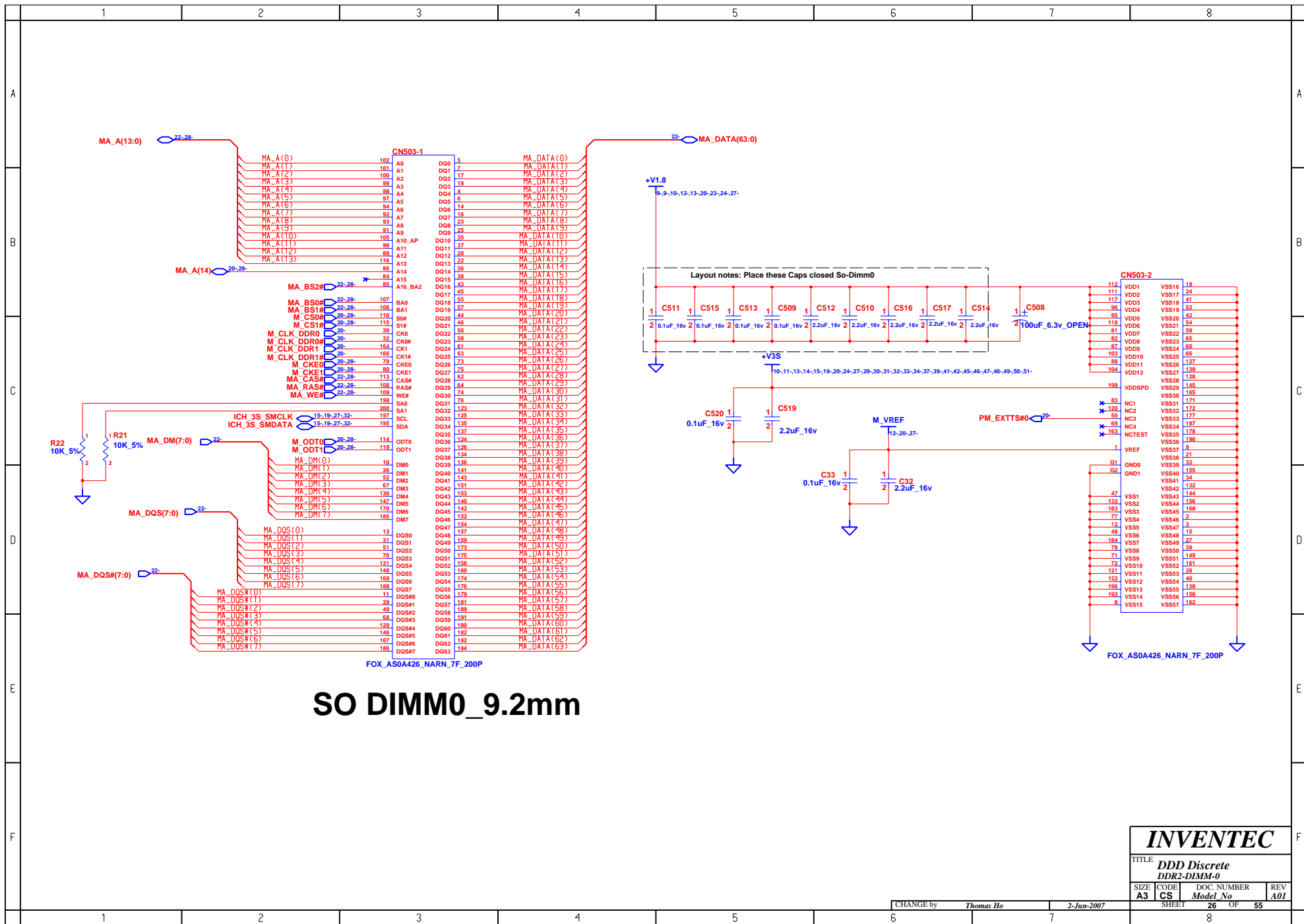
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Thomas Ho* 14-Jun-2007

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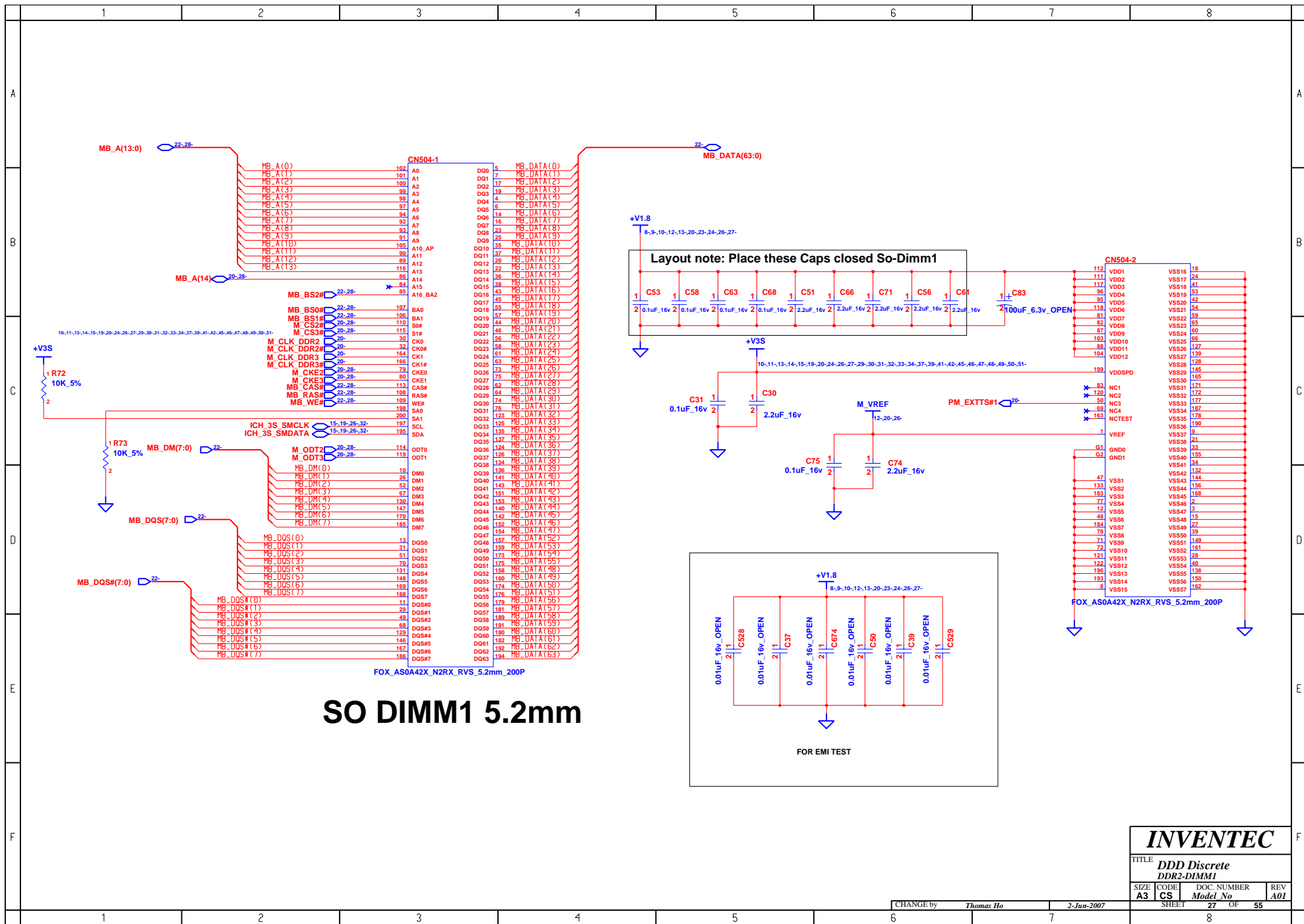
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TITLE DDD Discrete CRESTLINE-6			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by Thomas Ho		2-Jun-2007	
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INVENTEC

TITLE
**DDD Discrete
DDR2-DIMM-0**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

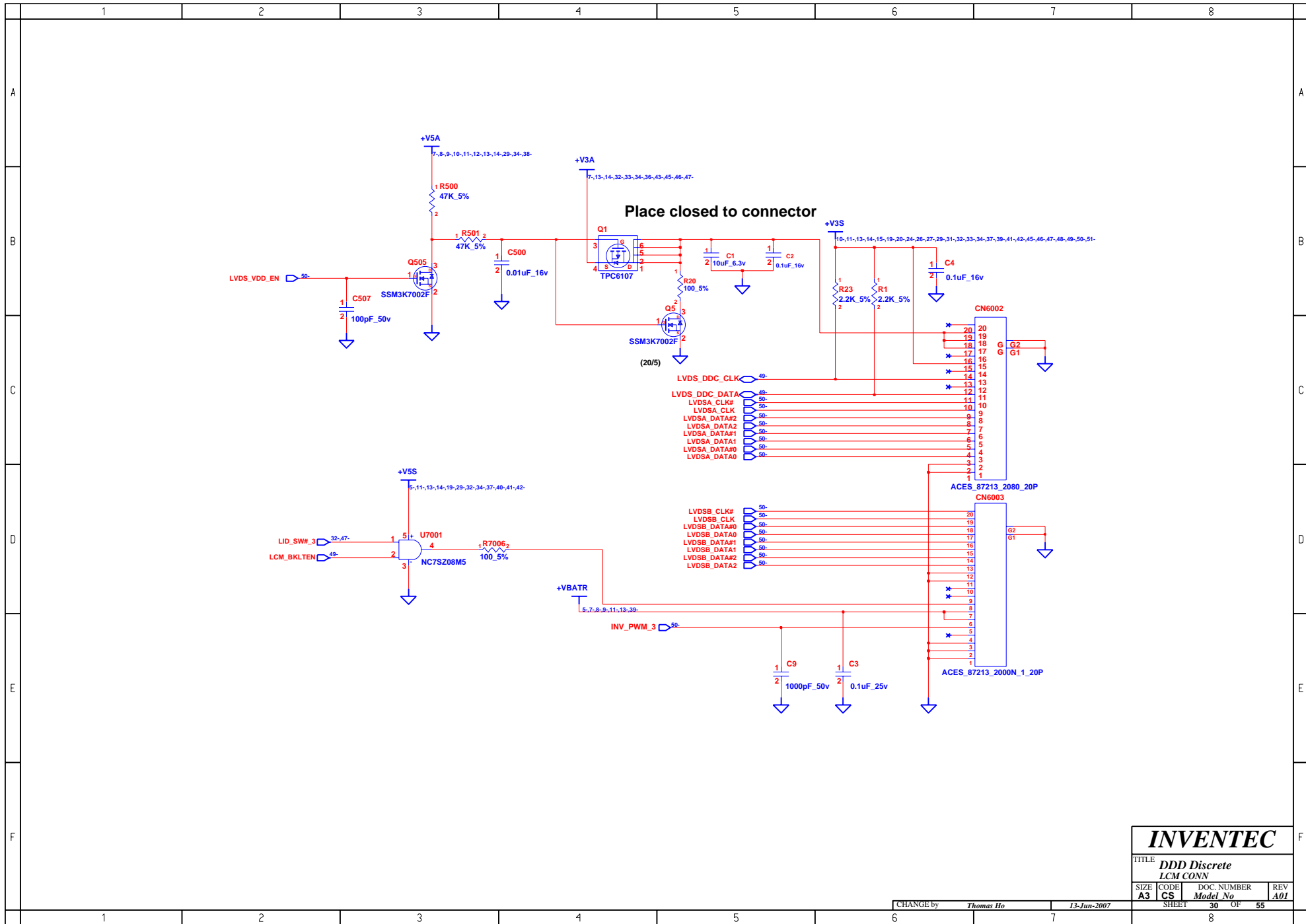


INVENTEC			
TITLE DDD Discrete DDR2-DIMM1			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by Thomas Ho		2-Jun-2007	
SHEET 27		OF 55	

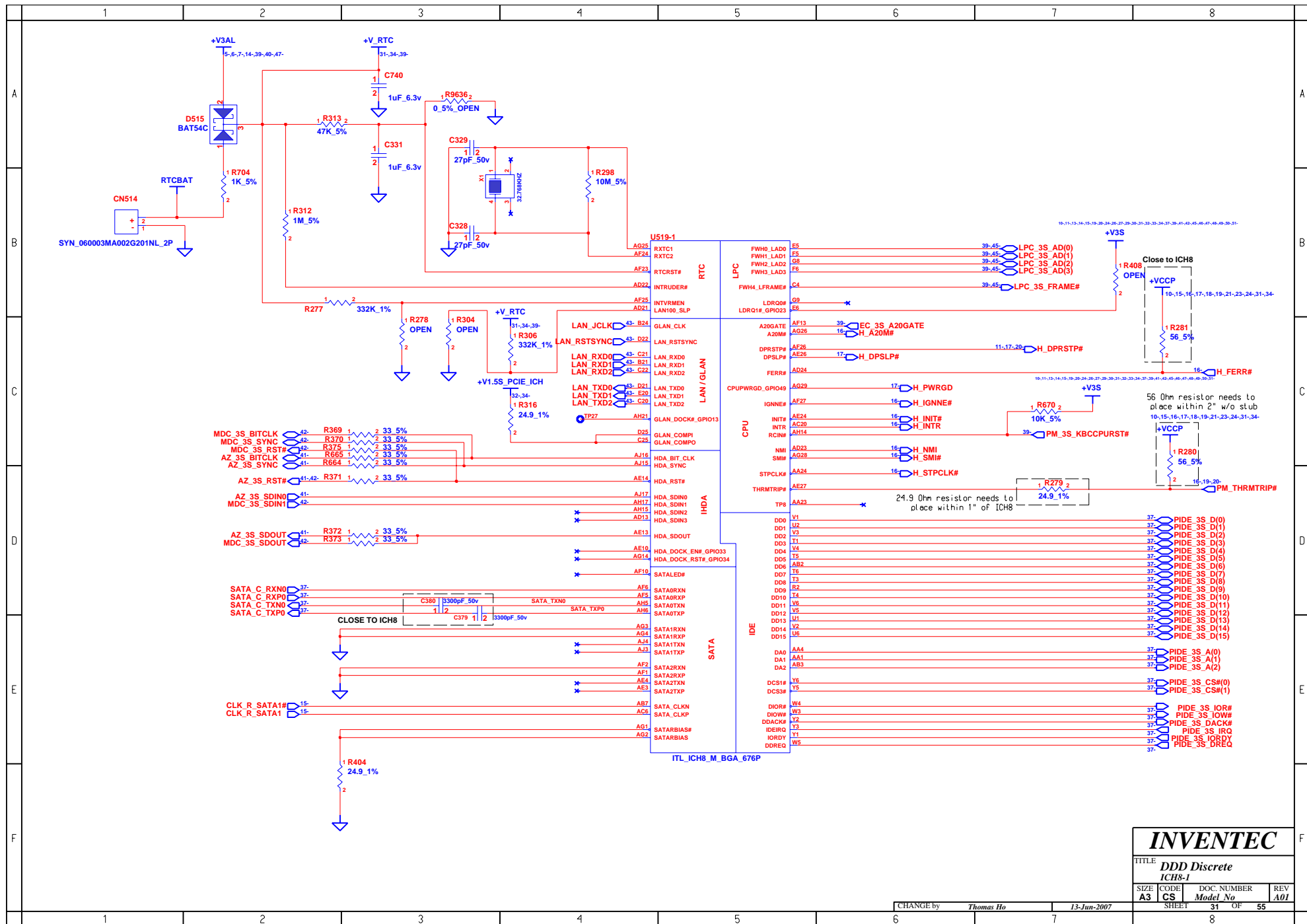


LAYOUT NOTES : PLACE ONE CAP CLOSE TO EVERY 2 PULL UP RESISTOR TERMINATED TO +V0.9S

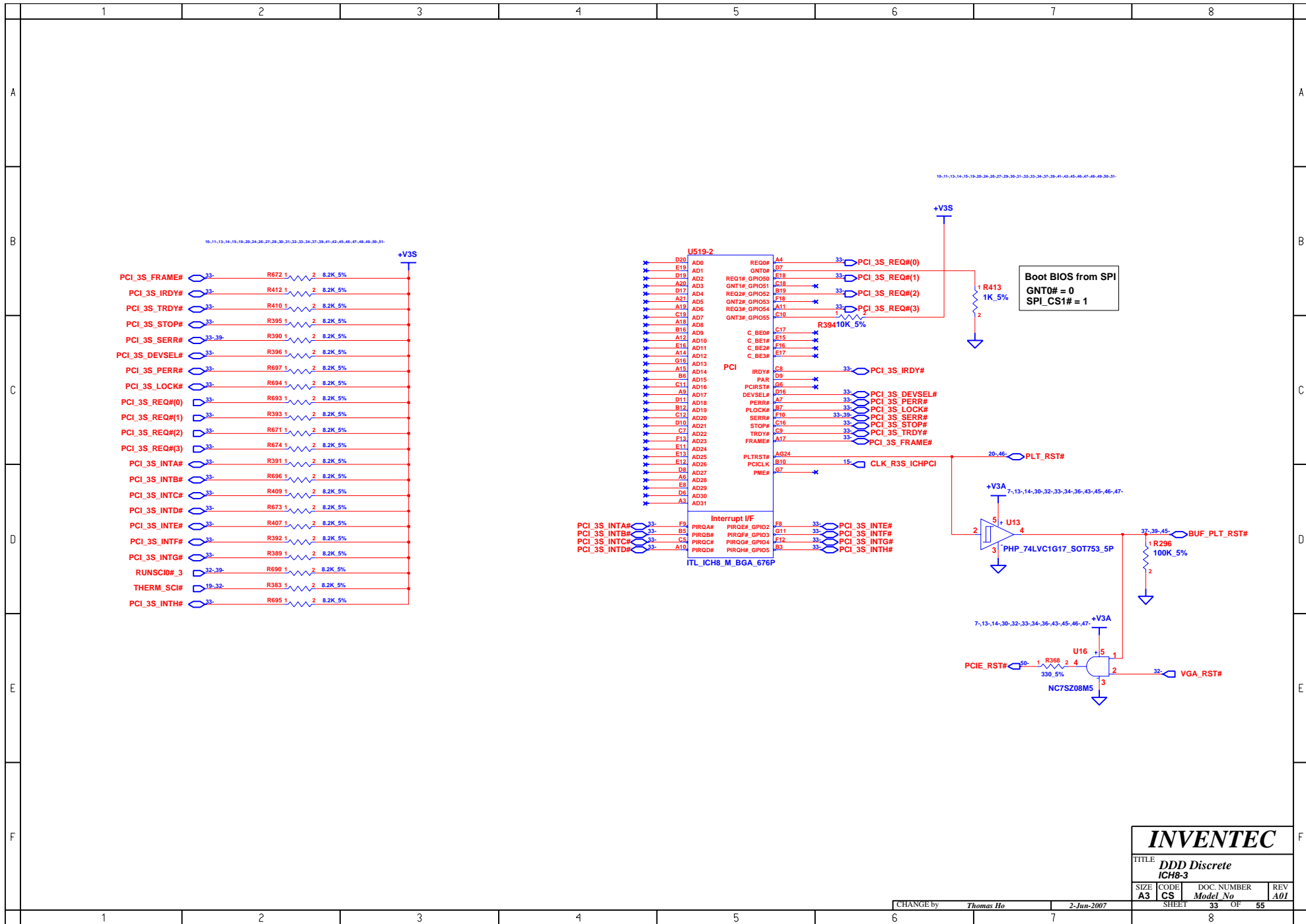
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SIZE A3	CODE CS	DOC NUMBER Model No	REV X01
CHANGE by <i>Thomas Ho</i>		27-Sep-2003	
SHEET 28		OF 55	



INVENTEC			
TITLE DDD Discrete LCM CONN			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV A01
CHANGE by <i>Thomas Ho</i>		13-Jun-2007	
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INVENTEC			
TITLE DDD Discrete IC8S-1			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by Thomas Ho		13-Jun-2007	
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	1	2	3	4	5	6	7	8	
A									
B									
C									
D									
E									
F									

Part No.	Code	Model No.	Rev
U519-5			
A21	VSS001	VSS099	K7
AA	VSS002	VSS100	L1
AA2	VSS003	VSS101	L13
AAT	VSS004	VSS102	L15
AA2	VSS005	VSS103	L26
AB1	VSS006	VSS104	L27
AB21	VSS007	VSS105	L4
AC11	VSS008	VSS106	L5
AC11	VSS009	VSS107	M12
AC25	VSS010	VSS108	M13
AC28	VSS011	VSS109	M14
AC27	VSS012	VSS110	M15
AD11	VSS013	VSS111	M16
AD20	VSS014	VSS112	M17
AD23	VSS015	VSS113	M23
AD29	VSS016	VSS114	M28
AD1	VSS017	VSS115	M29
AD1	VSS018	VSS116	M3
AD6	VSS019	VSS117	N1
AE1	VSS020	VSS118	N11
AE15	VSS021	VSS119	N12
AE2	VSS022	VSS120	N13
AE22	VSS023	VSS121	N14
AD1	VSS024	VSS122	N15
AE23	VSS025	VSS123	N16
AE3	VSS026	VSS124	N17
AE6	VSS027	VSS125	N18
AE9	VSS028	VSS126	N26
AF14	VSS029	VSS127	N27
AF16	VSS030	VSS128	N4
AF18	VSS031	VSS129	N5
AF1	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
AF23	VSS041	VSS139	P29
AH22	VSS042	VSS140	R11
AH24	VSS043	VSS141	R12
AH25	VSS044	VSS142	R13
AH3	VSS045	VSS143	R14
AH1	VSS046	VSS144	R15
AH5	VSS047	VSS145	R16
AH5	VSS048	VSS146	R17
B11	VSS049	VSS147	R18
B14	VSS050	VSS148	R28
B11	VSS051	VSS149	R4
B3	VSS052	VSS150	T12
B20	VSS053	VSS151	T13
B22	VSS054	VSS152	T14
B5	VSS055	VSS153	T15
C24	VSS056	VSS154	T16
C28	VSS057	VSS155	T17
C27	VSS058	VSS156	T2
C5	VSS059	VSS157	U12
D12	VSS060	VSS158	U13
D15	VSS061	VSS159	U14
D18	VSS062	VSS160	U15
D1	VSS063	VSS161	U16
D1	VSS064	VSS162	U17
E21	VSS065	VSS163	U23
E24	VSS066	VSS164	U26
E4	VSS067	VSS165	U27
E9	VSS068	VSS166	U3
F14	VSS069	VSS167	U5
E24	VSS070	VSS168	V13
F24	VSS071	VSS169	V15
F29	VSS072	VSS170	V28
F7	VSS073	VSS171	V29
G1	VSS074	VSS172	W2
E4	VSS075	VSS173	W26
G10	VSS076	VSS174	W27
G13	VSS077	VSS175	Y28
G19	VSS078	VSS176	Y29
G25	VSS079	VSS177	Y4
G25	VSS080	VSS178	AB4
G25	VSS081	VSS179	AB23
G21	VSS082	VSS180	AB5
H25	VSS083	VSS181	AB6
H23	VSS084	VSS182	AD5
H29	VSS085	VSS183	U4
H3	VSS086	VSS184	W24
HE	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
J4	VSS093	VSS NCTF_07	AJ1
K23	VSS094	VSS NCTF_08	AJ2
K29	VSS095	VSS NCTF_09	AJ28
K29	VSS096	VSS NCTF_10	AJ29
K8	VSS097	VSS NCTF_011	B1
K8	VSS098	VSS NCTF_012	B29

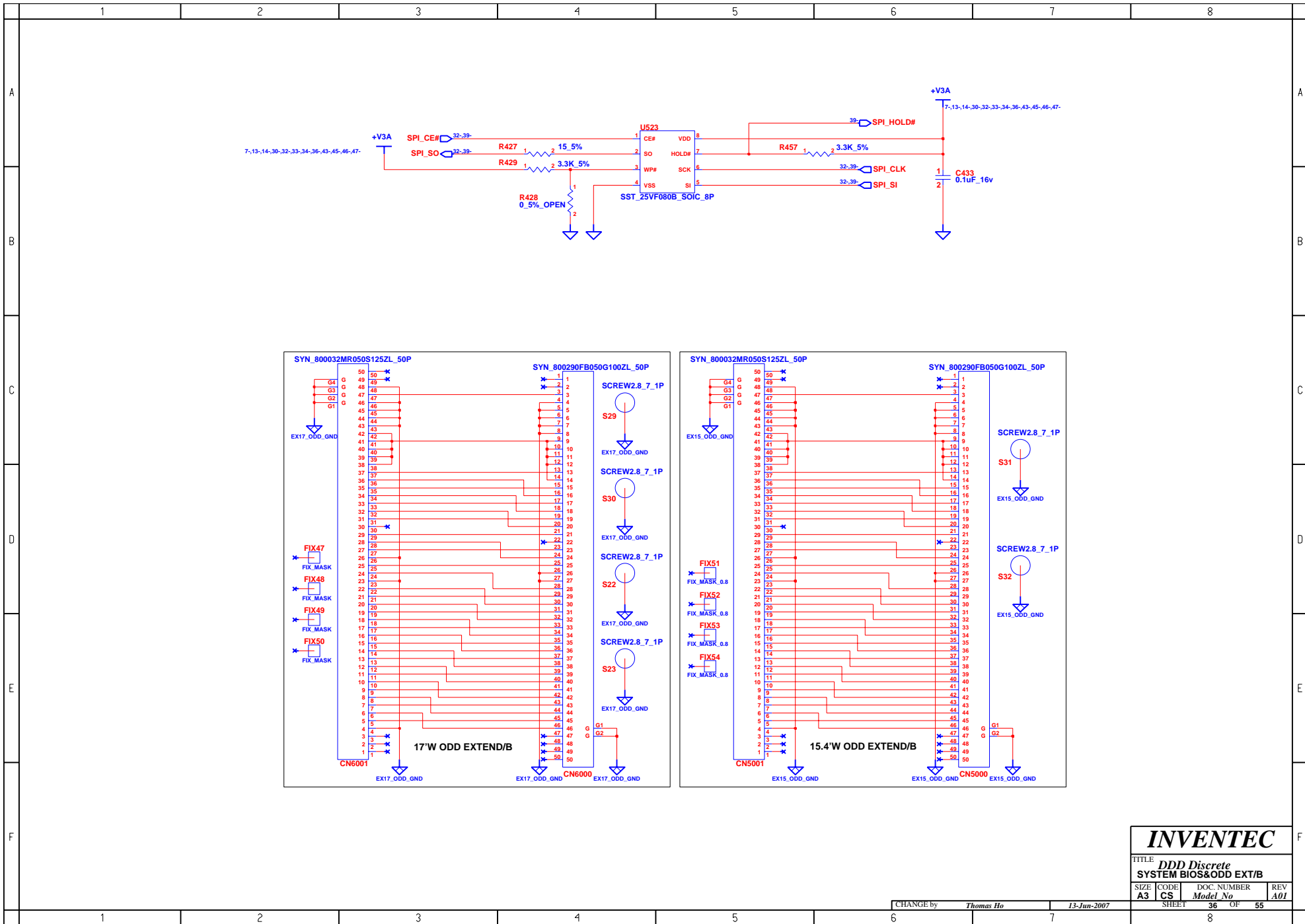
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48-ICHGND4			
48-ICHGND7			
48-ICHGND10			

INVENTEC

TITLE **DDD Discrete**
ICH8-5

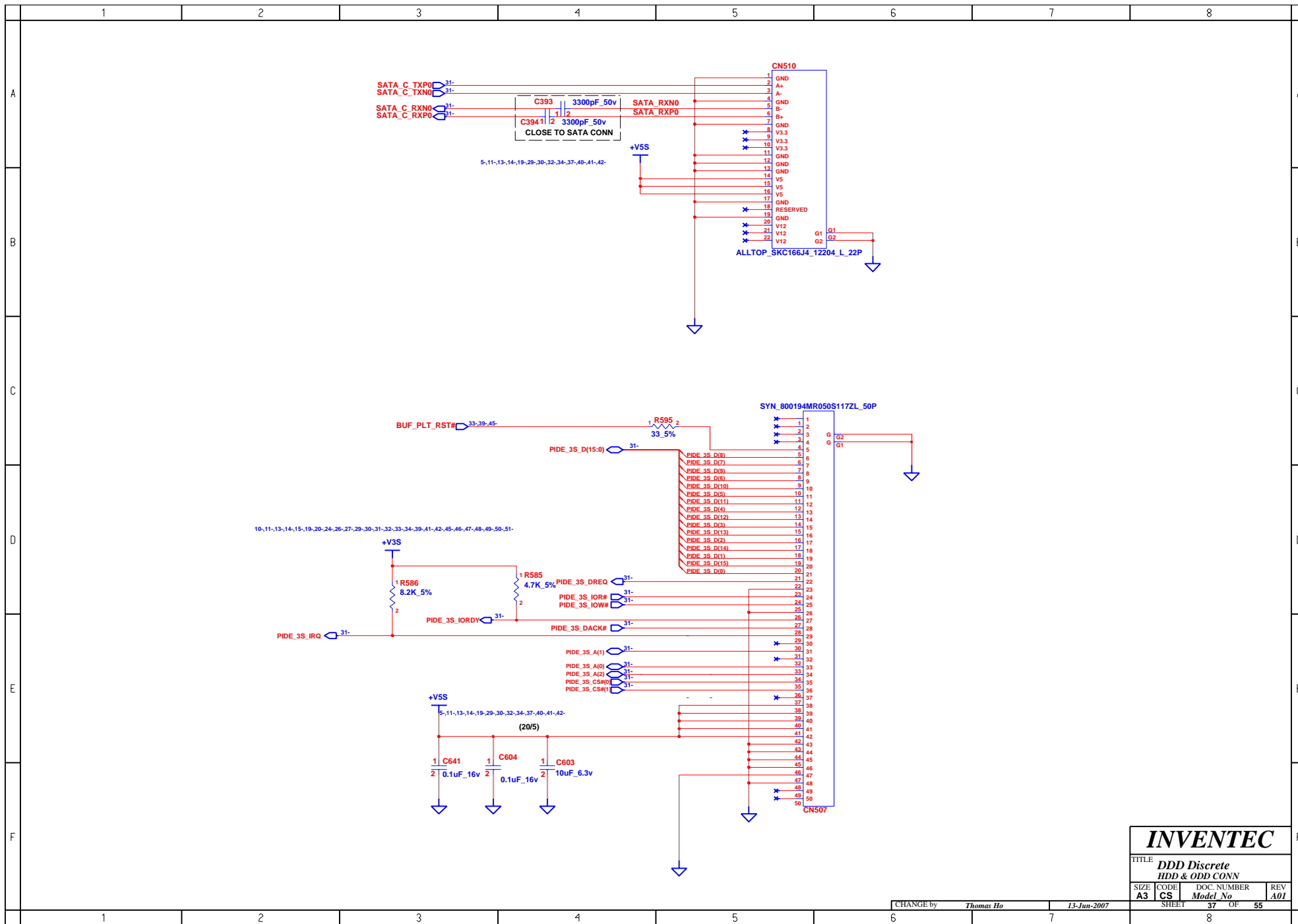
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

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INVENTEC

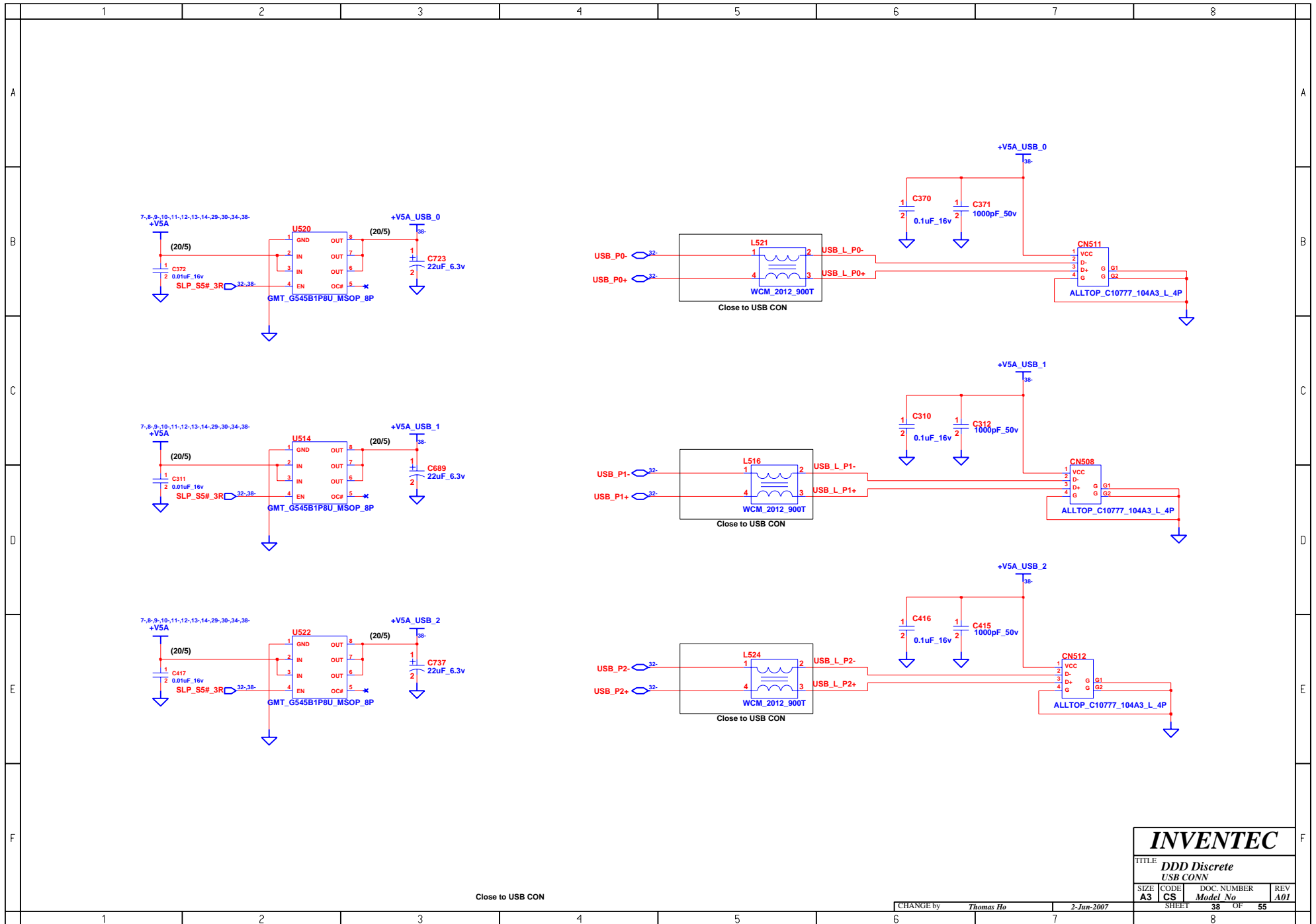
TITLE			
DDD Discrete			
SYSTEM BIOS&ODD EXT/B			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01



INVENTEC

TITLE			
DDD Discrete HDD & ODD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Thomas Ho 13-Jun-2007

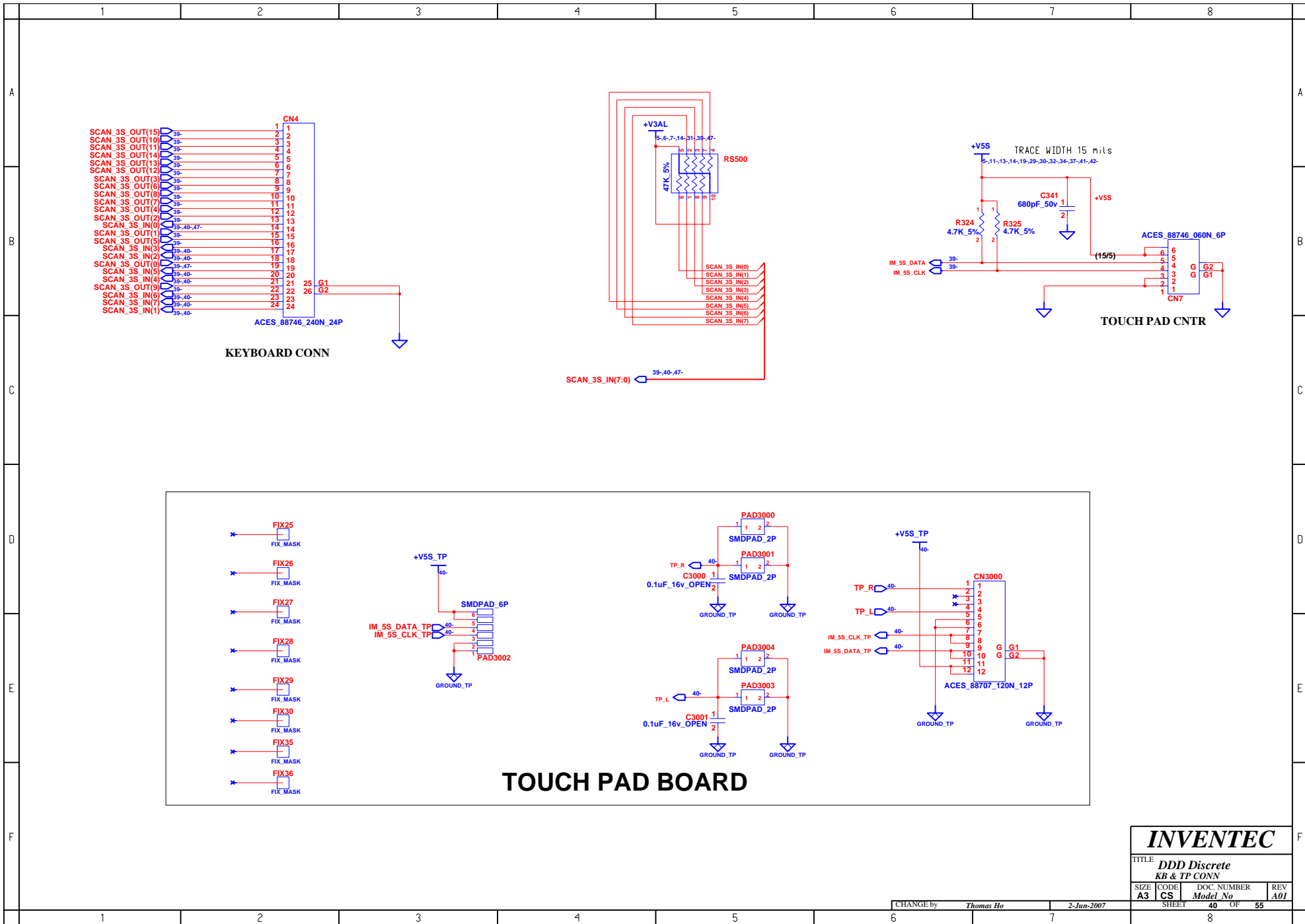


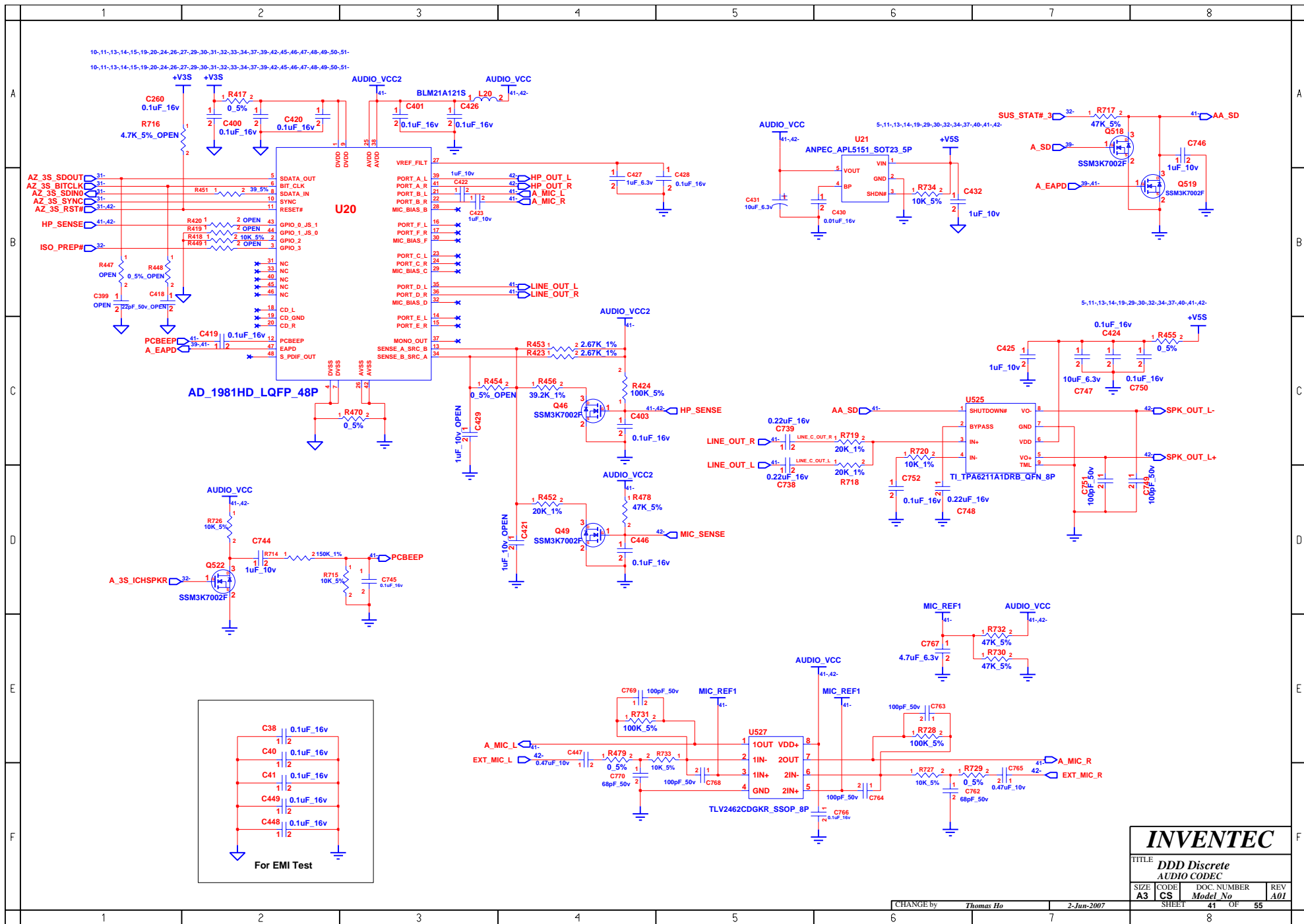
Close to USB CON

INVENTEC

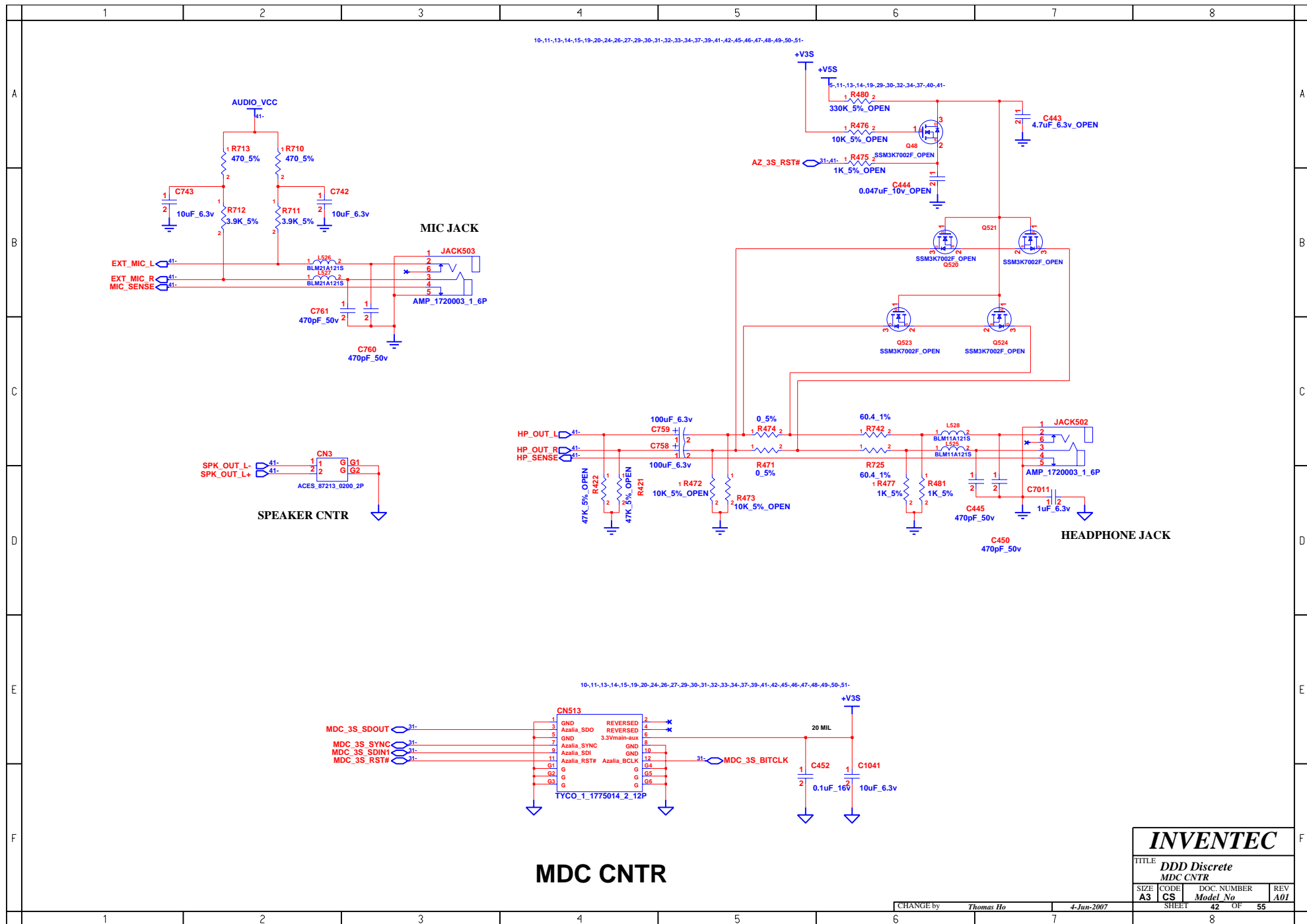
TITLE			
DDD Discrete			
USB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01
SHEET		OF	
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CHANGE by Thomas Ho 2-Jun-2007

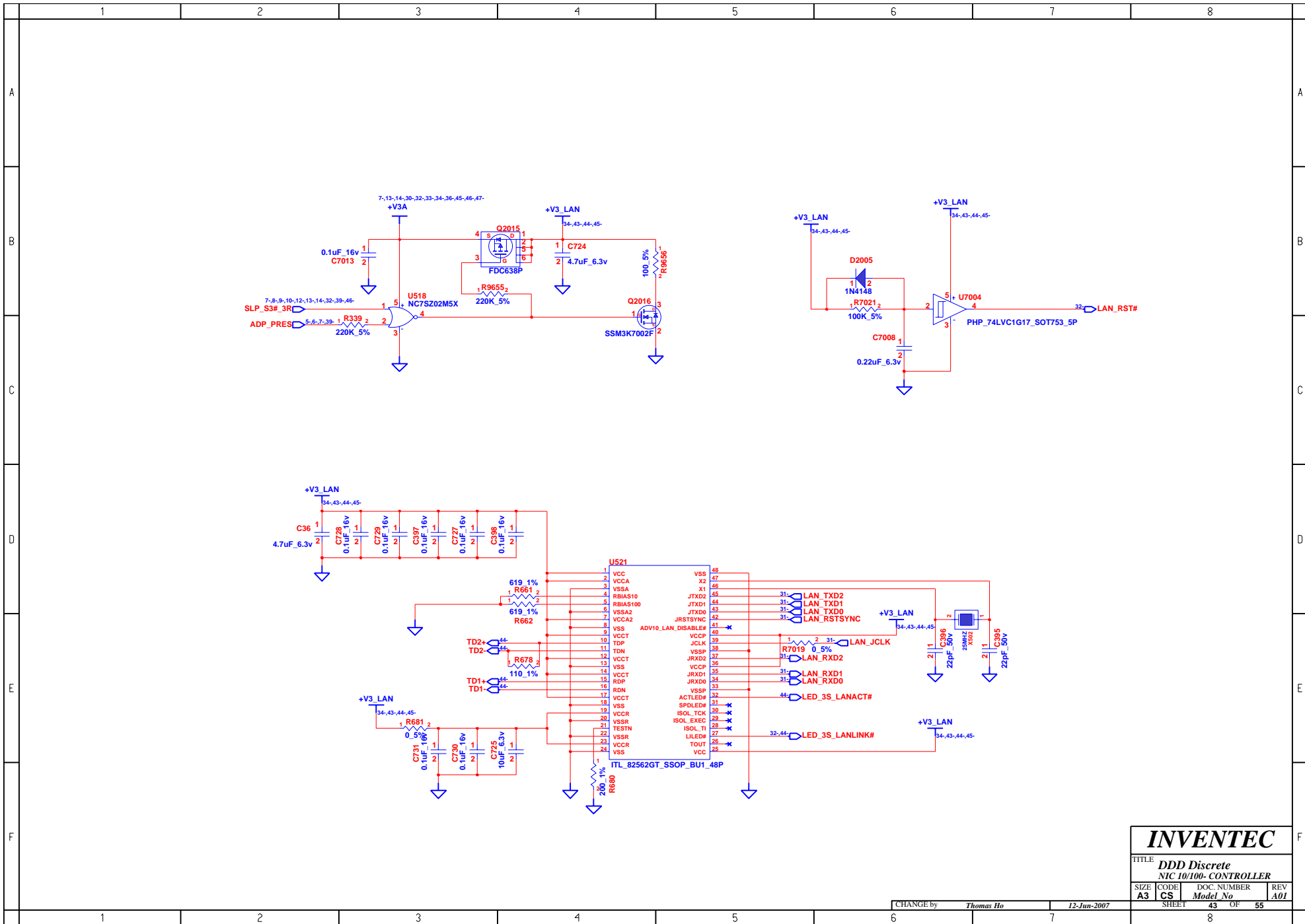




INVENTEC			
TITLE DDD Discrete AUDIO CODEC			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by <i>Thomas Ho</i>		2-Jun-2007	
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INVENTEC			
TITLE DDD Discrete MDC CNTR			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by <i>Thomas Ho</i>		4-Jun-2007	
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INVENTEC			
TITLE DDD Discrete NIC 10/100- CONTROLLER			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
CHANGE by Thomas Ho		12-Jun-2007	
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1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

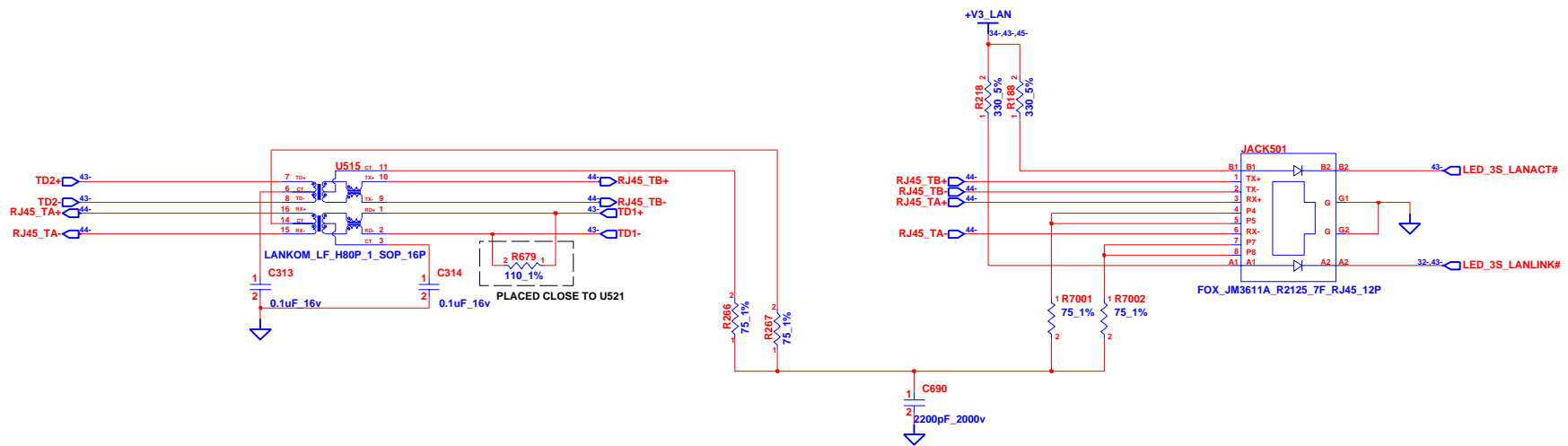
B

C

D

E

F



INVENTEC

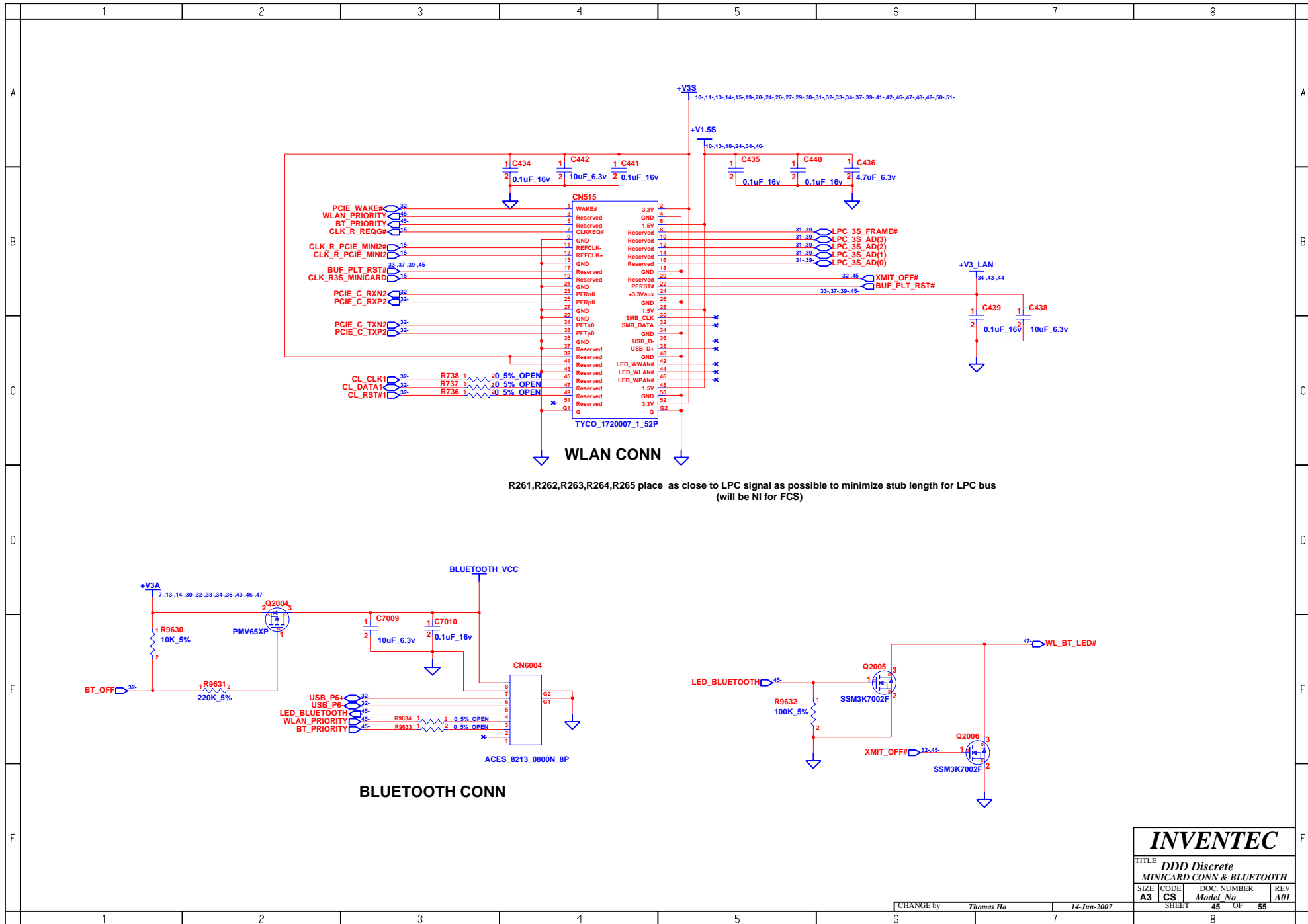
TITLE *DDD Discrete*
NIC 10/100 - RJ45

SIZE	CODE	DOC. NUMBER	REV
A3	CS	44	A01

CHANGE by *Thomas Ho* 2-Jun-2007

1 2 3 4 5 6 7 8

SHEET 44 OF 55

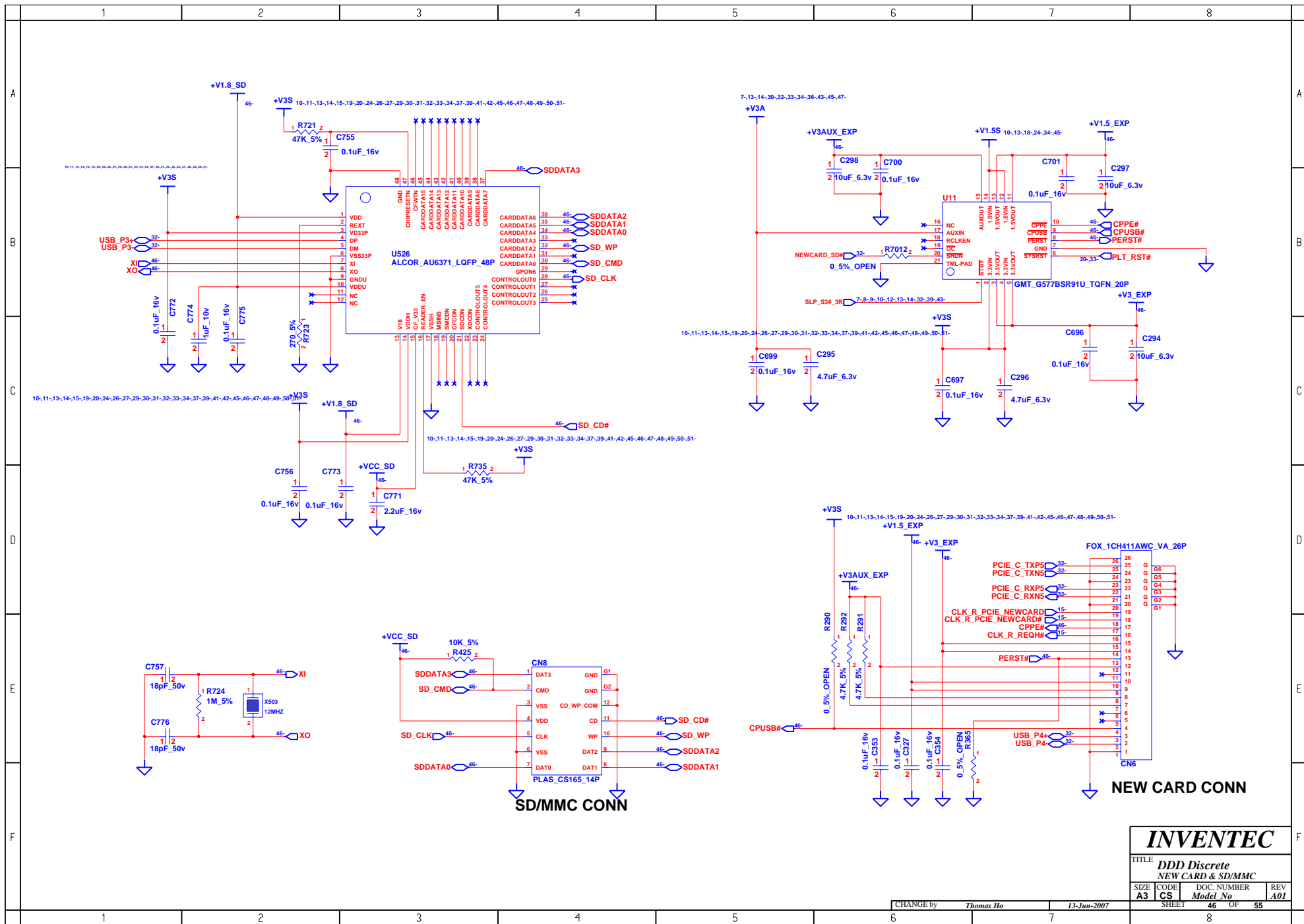


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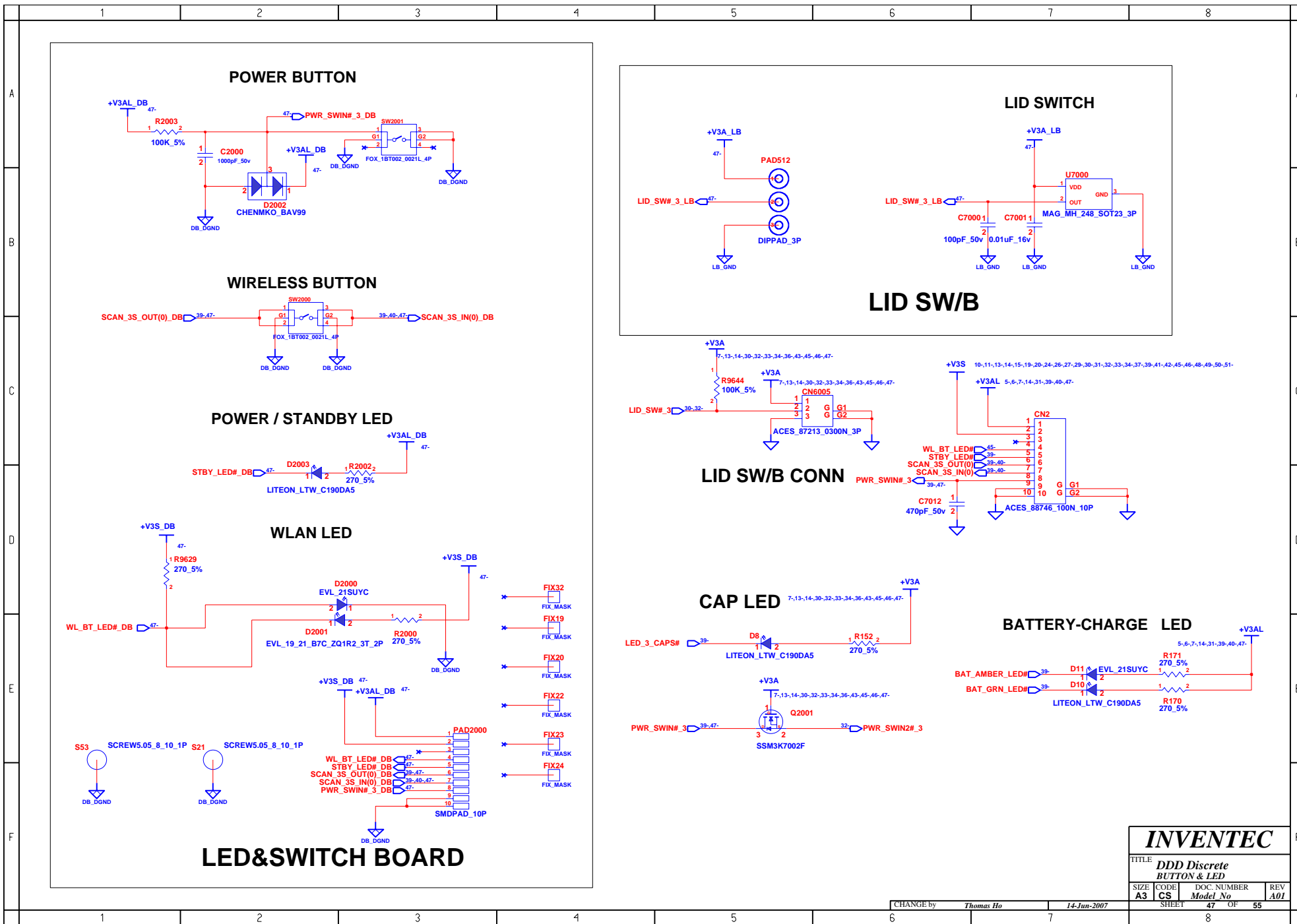
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DDD Discrete			
MINICARD CONN & BLUETOOTH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by *Thomas Ho* 14-Jun-2007

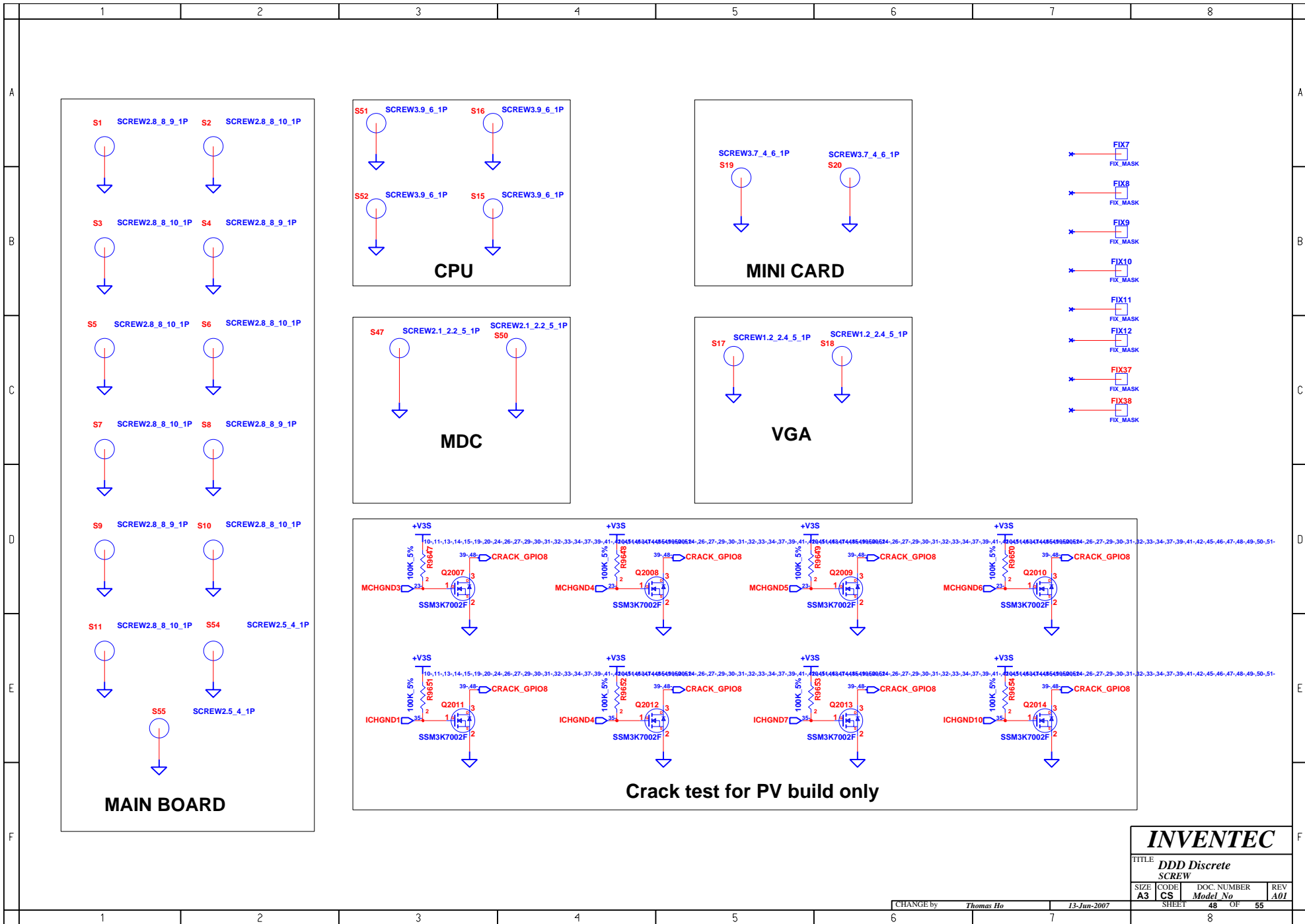
SHEET 45 OF 55



INVENTEC			
TITLE DDD Discrete NEW CARD & SD/MMC			
SIZE A3	CODE CS	DOC NUMBER Model No	REV A01
CHANGE by Thomas Ho		13-Jun-2007	
SHEET 46		OF 55	



INVENTEC			
TITLE DDD Discrete BUTTON & LED			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV A01
CHANGE by <i>Thomas Ho</i>		14-Jun-2007	
SHEET 47		OF 55	

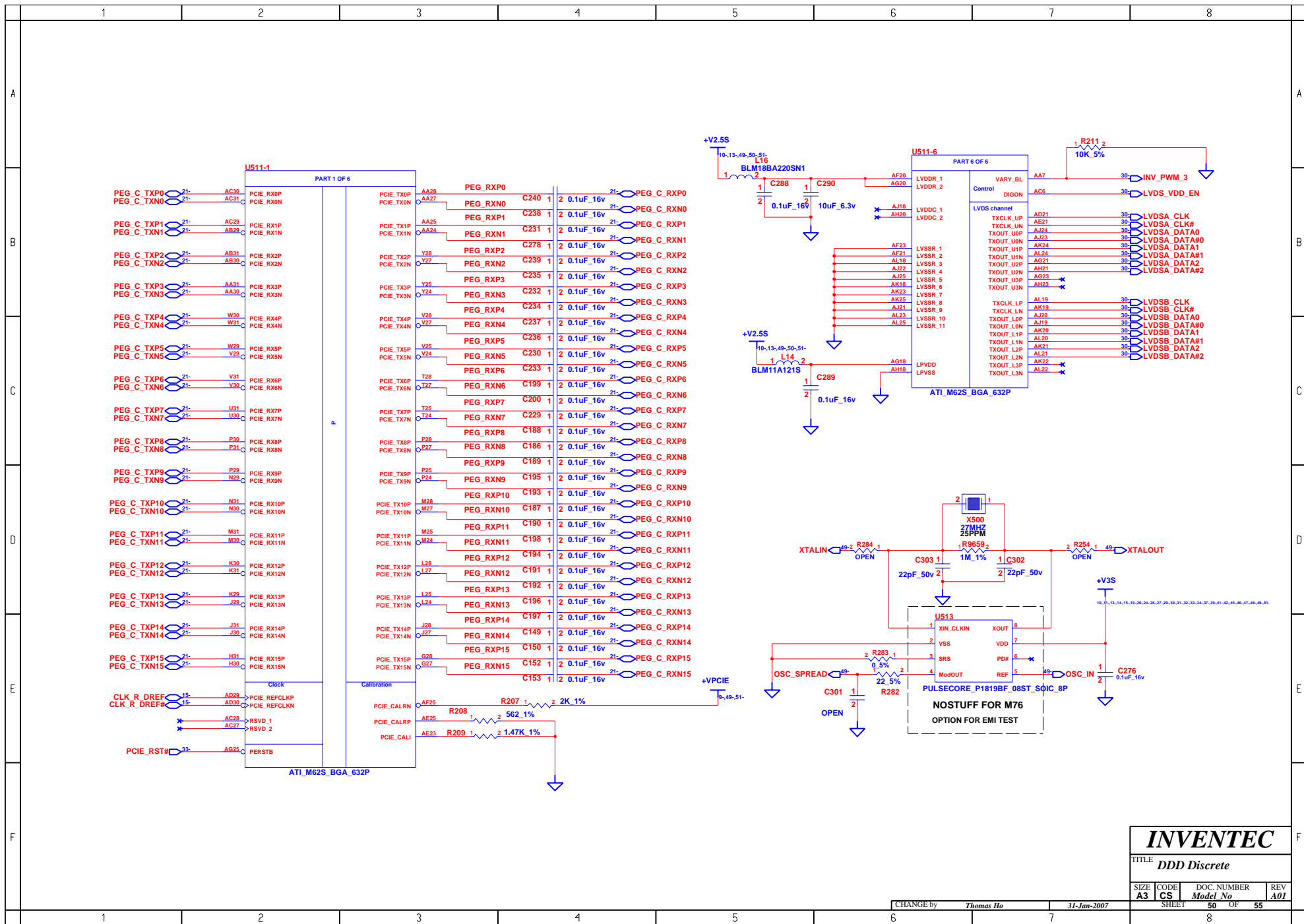


INVENTEC

TITLE			
DDD Discrete			
SCREW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by Thomas Ho 13-Jun-2007

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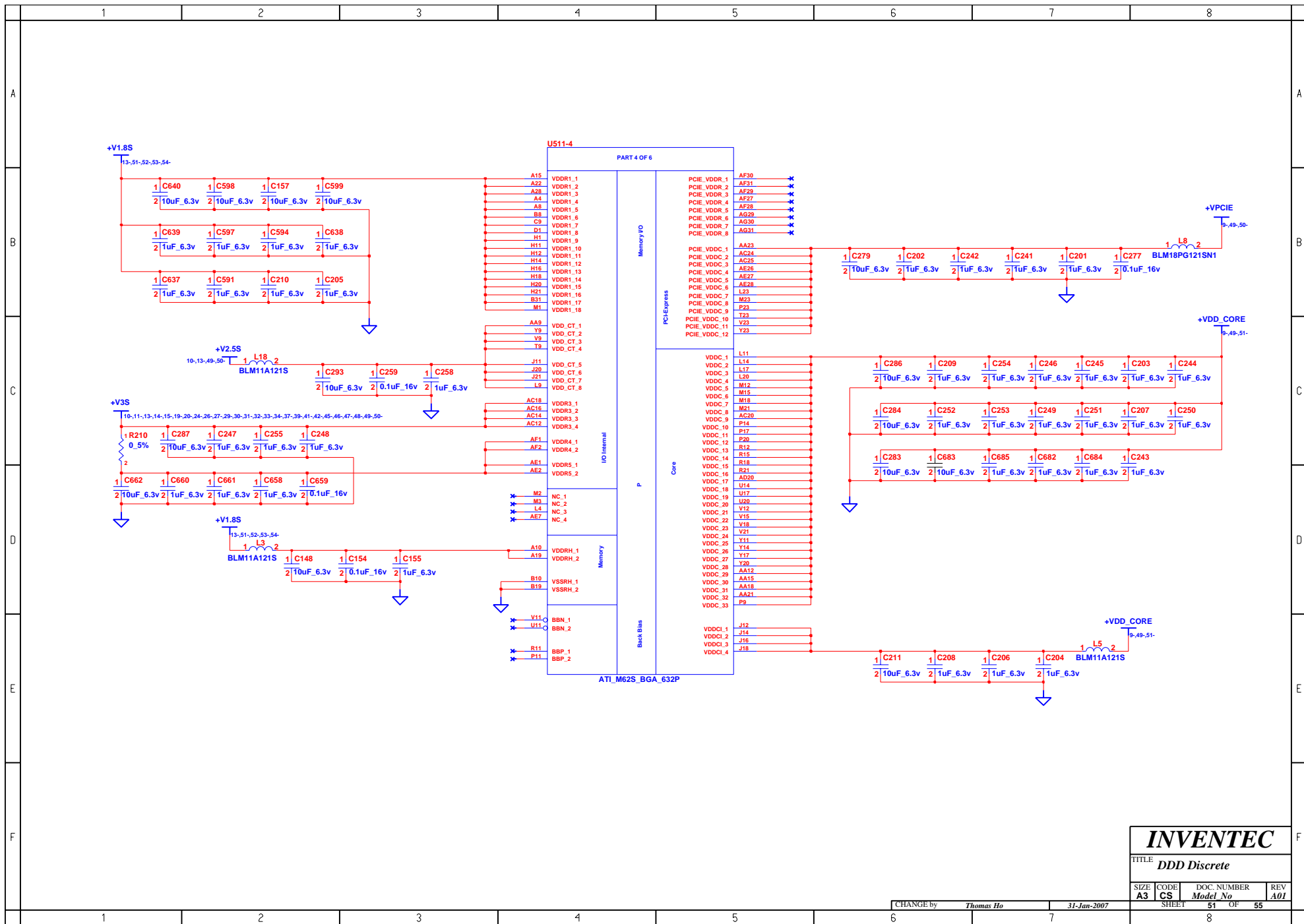
INVENTEC

TITLE
DDD Discrete

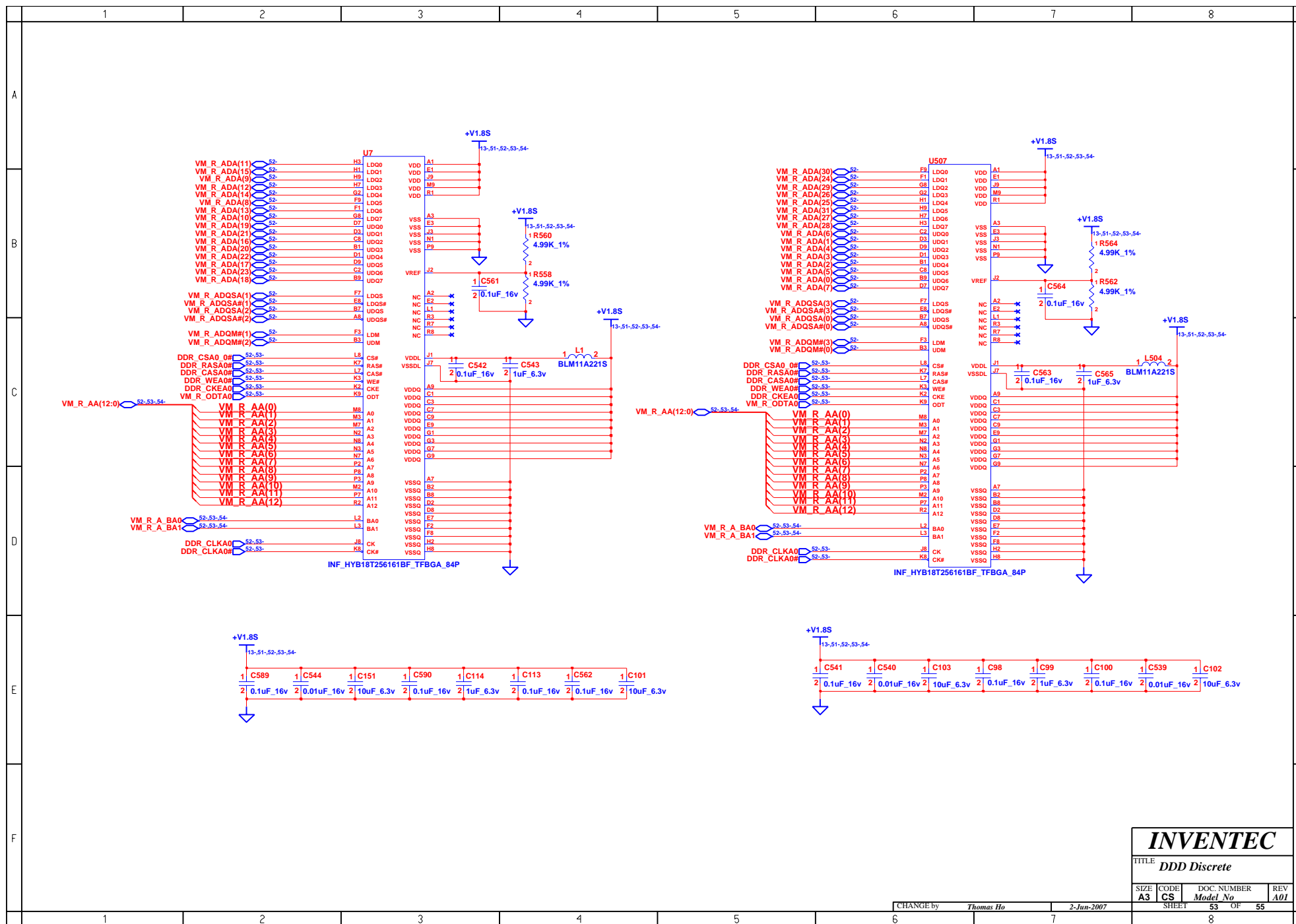
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01
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CHANGE by Thomas Ho 31-Jan-2007

SHEET 50 OF 55



INVENTEC				
TITLE DDD Discrete				
SIZE A3	CODE CS	DOC. NUMBER Model No	REV A01	
CHANGE by Thomas Ho		31-Jan-2007		SHEET 51 OF 55



INVENTEC

TITLE: **DDD Discrete**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	A01

CHANGE by: *Thomas Ho* 2-Jun-2007

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