Nozomi-4 SWG SOVP LOGIC SCHEMATICS NZM4H-7 1.TITLE PAGE 2.EC HISTORY **VER 7.54** 3.CPU(1/8): DMI/EDP/PEG/FDI MAR/19/2012 4.CPU(2/8): CLK/MISC/JTAG **37.DISPLAY PORT CONNECTOR** 5.CPU(3/8) : DDR3 **CHANNEL- A 38.DISPLAY PORT MUX BASE LOGIC : Nozomi-4 SWG SVT VER 7.03 CHANNEL-B 70.THINK ENGINE(1/2)** 6.CPU(4/8) : DDR3 **39.RTC BATTERY** Jan/25/2012 7.CPU(5/8): PROCESSOR POWER 71.THINK ENGINE(2/2) **40.SATA HDD CONN** 8.CPU(6/8): GRAPHICS POWER 41.SATA BAY I/F CONN **72.DC-IN** 9.CPU(7/8) : GND **42.USB POWER/CONN** 73.BATTERY INPUT 10.CPU(8/8): CFG/RESERVED 43.AUDIO ALC3202-GR 74.BATTERY CHARGER(BQ24760) **11.XDP CONNECTOR** 44.AUDIO CONNECTOR 75.CHARGER SELECTOR 12.DDR3 SO DIMM CHANNEL-A **76.BATTERY MONITOR 45.AUDIO JACK SENSE** 13.DDR3 SO DIMM CHANNEL-B 46.AUDIO EXT MIC I/F 77.POWER SEQUENCE 14.DDR3 DECOUPLING **47.AUDIO SPEAKER 78.DC/DC VCC5M/VCC3M (TPS51220A)** 79.DC/DC VCCCPUCORE(VT1318M/VT1324S) 15.N13P-NS1(1/6) : PEG I/F **48.AUDIO BEEP** 16.N13P-NS1(2/6) : DIGITAL OUT I/F 80.DC/DC VCCGFXCORE_I(VT1324S) 49.GBE LEWISVILLE 17.N13P-NS1(3/6): VRAM I/F 81.VCCCPUCORE DECOUPLING **50.GBE LAN SWITCH** 18.N13P-NS1(4/6): GPIO **51.GBE MAGNETICS** 82.DC/DC VCCGFXCORE_D (TPS51728) 19.N13P-NS1(5/6): POWER **52.I/O SUB CARD I/F** 83.DC/DC VCC1R05B_VTT(VT356) 20.N13P-NS1(6/6): GND **84.DC/DC VCC1R05AMT(VT356)** 53.PCIE MINI CARD SLOT **85.DC/DC VCC1R5A(VT357)** 21.VRAM CHANNEL-A **54.MEDIA CARD CONTROLLER** 22.VRAM CHANNEL-B 55.MEDIA CARD INTERFACE 86.DC/DC VCC0R75B(MAX1510) 56.EXPRESS CARD/SMART CARD I/F 87.DC/DC VCC1R5VIDEO(VT356) 23.MEMORY TERMINATION 88.DC/DC VCC1R05VIDEO_PLL(TPS74801) 24.PCH(1/9): HDA/JTAG/SPI/SATA **57.SLOT POWER CONTROL** 89.DC/DC VCC1R8B(BD9139) 25.PCH(2/9): PCI-E/SMBUS/CLK 58.SPI FLASH 26.PCH(3/9): DMI/FDI/PM **59.DOCKING CONNECTOR** 90.DC/DC VCCSA(VT370) 27.PCH(4/9) : LVDS/CRT/DDI 91.LOAD SW LAN 60.MEC1619(1/3) 28.PCH(5/9) : PCI/USB/NVRAM 61.MEC1619(2/3) 92.LOAD SW VIDEO 62.MEC1619(3/3) 29.PCH(6/9): GPIO/NCTF/RSVD 93.BLANK **30.PCH(7/9) : POWER 63.KEYBOARD CONNECTOR** 94.LOAD SW B 31.PCH(8/9) : POWER **64.TOUCH PAD CONNECTOR** 95.LOAD SW VCC5MUBAY 32.PCH(9/9): GND 96.LOAD SW WAN & WLAN 65.WIRELESS DISABLE SW 33.LVDS SWITCH **66.FAN CONNECTOR** 97.PTH FOR SCREW HOLES **34.LCD CONNECTOR** 67.G-SENSOR 35.RGB SWITCH **68.TPM** lenovo **36.EXT CRT INTERFACE** 69.EEPROM/SMBUS SW

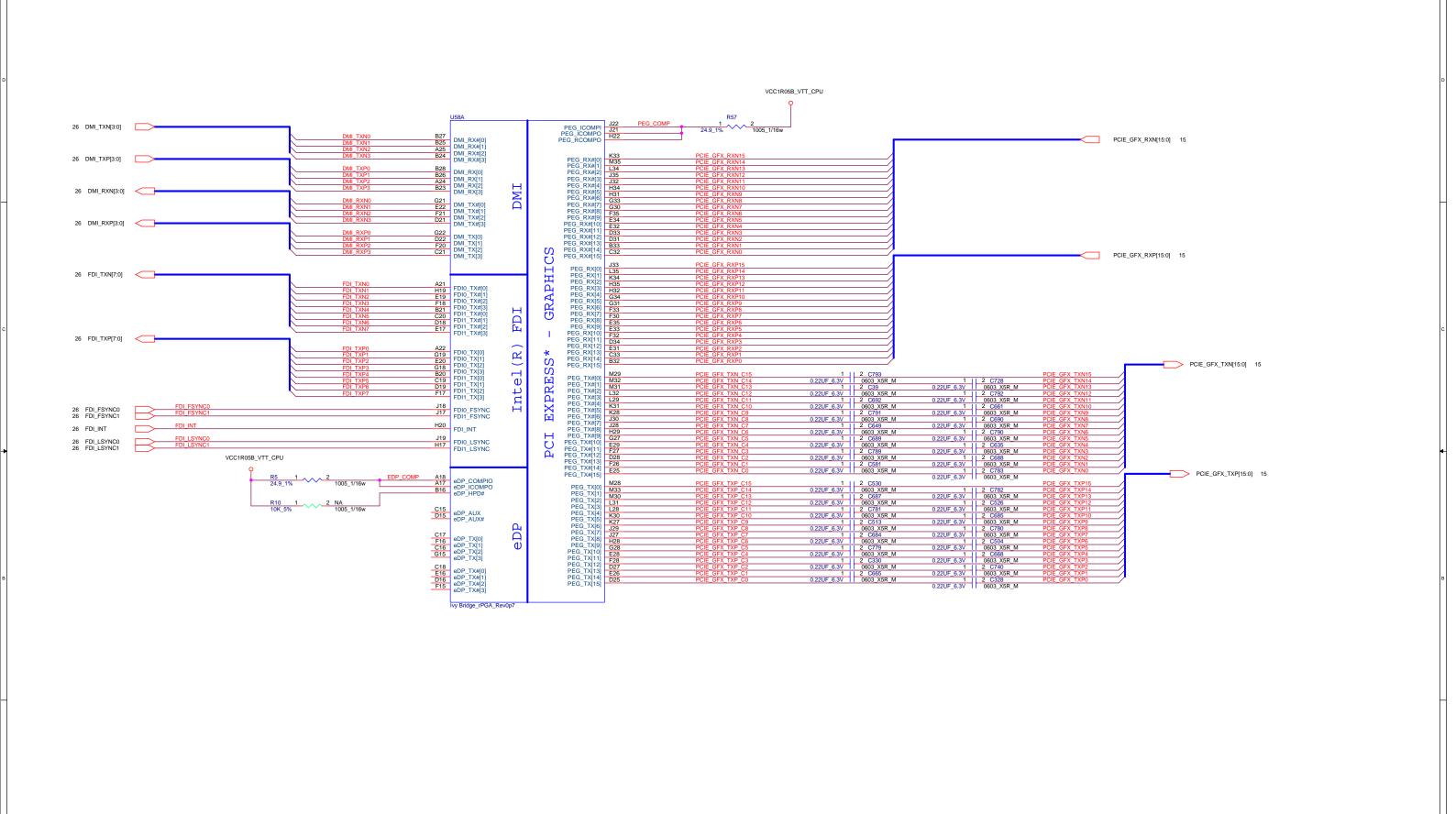
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04/22/2011 APPLIED SDV EC214-217 VER.5.03 10/28/2011 APPLIED SIT-R_EC008 VER.0.08 12/29/2010 APPLIED PDV EC047-049 VER.1.40 04/25/2011 APPLIED SDV EC218-220,224 VER.5.04 10/31/2011 APPLIED SIT-R EC009-012 VER.0.09 01/06/2011 APPLIED PDV EC051-058 VER.1.41 04/26/2011 APPLIED SDV EC228-232 VER.5.05 11/01/2011 APPLIED SIT-R EC014 VER.0.10 01/07/2011 APPLIED PDV EC042,050,059-063 VER.1.42 04/27/2011 APPLIED SDV EC236,240,242,245,247 VER.5.06 11/02/2011 APPLIED SIT-R_EC015 VER.0.11 01/11/2011 APPLIED PDV_EC064-069 VER.1.43 04/28/2011 APPLIED SDV_EC248,251-254,261 VER.5.07 11/04/2011 APPLIED SIT-R_EC017-020,022 VER.0.12 01/13/2011 APPLIED PDV EC070-074 VER.1.44 05/06/2011 APPLIED SDV EC262,263 VER.5.08 11/07/2011 APPLIED SIT-R EC023 VER.0.13 01/14/2011 APPLIED PDV EC075-077 VER.1.45 05/20/2011 APPLIED SDV EC264.265 VER.5.09 11/09/2011 APPLIED SIT-R EC016 VER.0.14 01/17/2011 APPLIED PDV_EC079,080 VER.5.10 11/10/2011 APPLIED SIT-R EC024 VER.0.15 01/19/2011 APPLIED PDV_EC078,081 Nozomi-4 SWG MFVT (BASE LOGIC :Nozomi-4 SWG SDV VER 1.45 May/20/2011) VER.5.11 11/15/2011 APPLIED SIT-R_EC025-026 VER.0.16 01/21/2011 APPLIED PDV_EC082-085 VER.2.00 05/23/2011 APPLIED MFVT_EC001-008 VER.0.17 01/24/2011 APPLIED PDV_EC086,087 VER.2.01 05/24/2011 APPLIED MFVT_EC009-014,017 Nozomi-4 SWG SIT-R2 (BASE LOGIC :Nozomi-4 SWG SIT-R1 VER 5.11 Nov/15/2011) VER.0.18 01/25/2011 APPLIED PDV_EC088-092 VER.2.02 05/25/2011 APPLIED MFVT_EC010,015,016,018 VER.6.00 11/18/2011 APPLIED SIT-R2_EC001-003 VER.0.19 01/26/2011 APPLIED PDV_EC093-095 VER.2.03 05/26/2011 APPLIED MFVT_EC020 VER.6.01 11/22/2011 APPLIED SIT-R2 EC006 VER.0.20 01/27/2011 APPLIED PDV_EC096,097 VER.2.04 05/27/2011 APPLIED MFVT_EC021,022 VER.6.02 11/25/2011 APPLIED SIT-R2 EC007 VER.0.21 01/28/2011 APPLIED PDV_EC098-100 VER.2.05 05/30/2011 APPLIED MFVT_EC023,025,026 VER.6.03 11/28/2011 APPLIED SIT-R2_EC008 VER.0.22 01/31/2011 APPLIED PDV_EC101,102 VER.2.06 05/31/2011 APPLIED MFVT_EC028 VER.6.04 11/29/2011 APPLIED SIT-R2_EC009-010 VER.0.23 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EC011 VER.0.31 02/14/2011 APPLIED PDV_EC137,138 VER.2.15 06/15/2011 APPLIED MFVT EC066 VER.7.03 01/25/2012 APPLIED SVT EC012 VER.0.32 02/15/2011 APPLIED PDV EC141-145 VER.2.16 06/21/2011 APPLIED MFVT EC067 VER.0.33 02/16/2011 APPLIED PDV_EC146-148 VER.0.34 02/17/2011 APPLIED PDV EC149-151 Nozomi-4 SWG FVT (BASE LOGIC :Nozomi-4 SWG MFVT VER 2.16 Jun/21/2011) Nozomi-4 SWG SOVP (BASE LOGIC :Nozomi-4 SWG SVT VER 7.03 Jan/25/2012) VER.3.00 06/23/2011 APPLIED FVT_EC001-003 VER.0.35 02/18/2011 APPLIED PDV EC152-160 VER.7.50 02/20/2012 APPLIED SOVP EC001-002 VER.7.51 02/24/2012 APPLIED SOVP EC003-004 VER.0.36 02/21/2011 APPLIED PDV EC161-166 VER.3.01 06/29/2011 APPLIED FVT EC006 VER.0.37 02/22/2011 APPLIED PDV_EC167-183 VER.3.02 07/01/2011 APPLIED FVT_EC008 VER.7.52 03/05/2012 APPLIED SOVP_EC005-006 VER.7.53 03/08/2012 APPLIED SOVP_EC007 VER.0.38 02/23/2011 APPLIED PDV EC184-187 VER.3.03 07/04/2011 APPLIED FVT EC004,009-013 VER.3.04 07/05/2011 APPLIED FVT EC014-017,019 VER.7.54 03/19/2012 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VER.1.28 04/06/2011 APPLIED SDV_EC178-180 VER.4.15 09/08/2011 APPLIED SIT_EC080-089 Project Name : NZM-4 SWG SOVP itle: EC HISTORY VER.4.16 09/09/2011 APPLIED SIT_EC092,095,096 VER.1.29 04/07/2011 APPLIED SDV_EC181-184

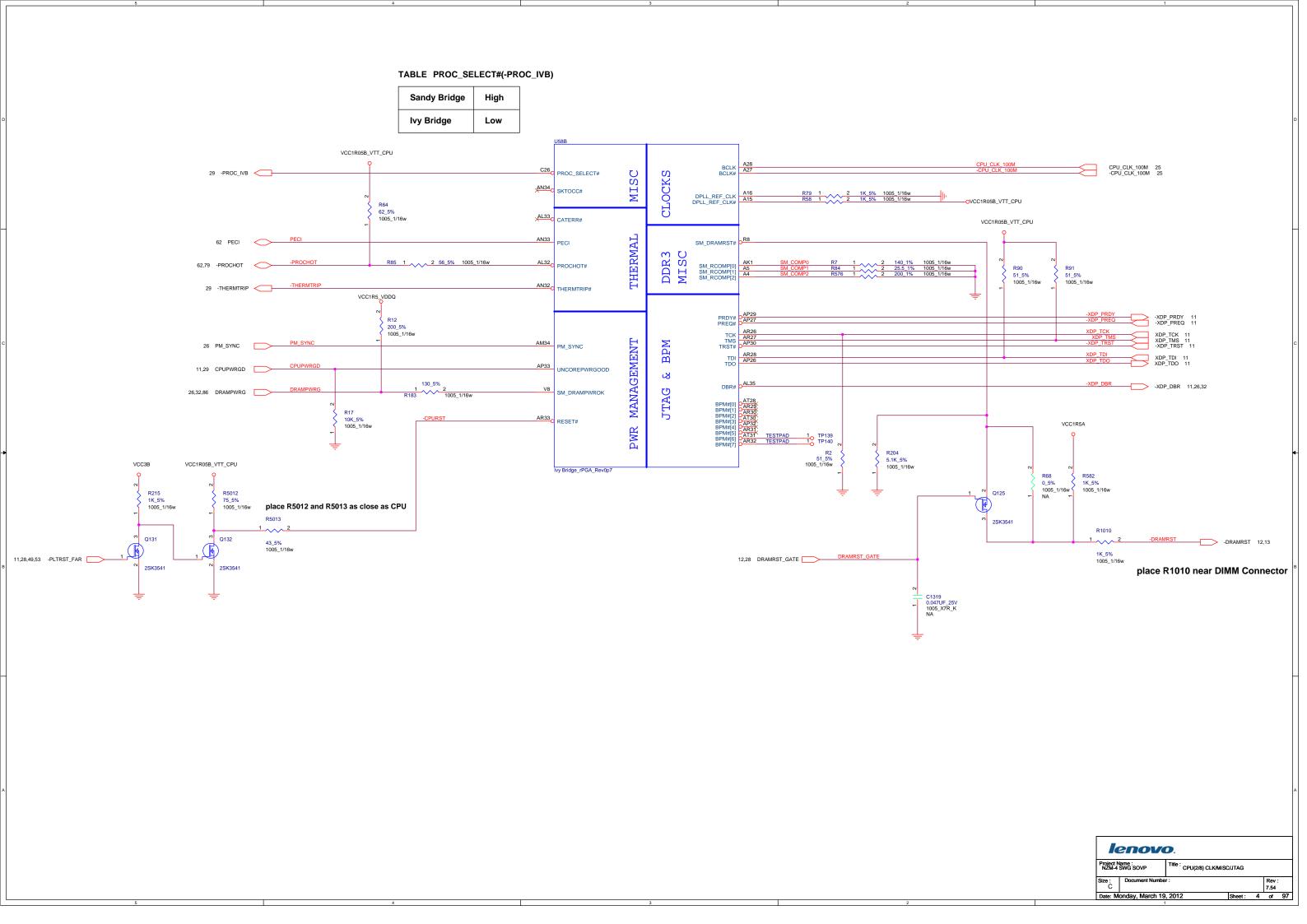
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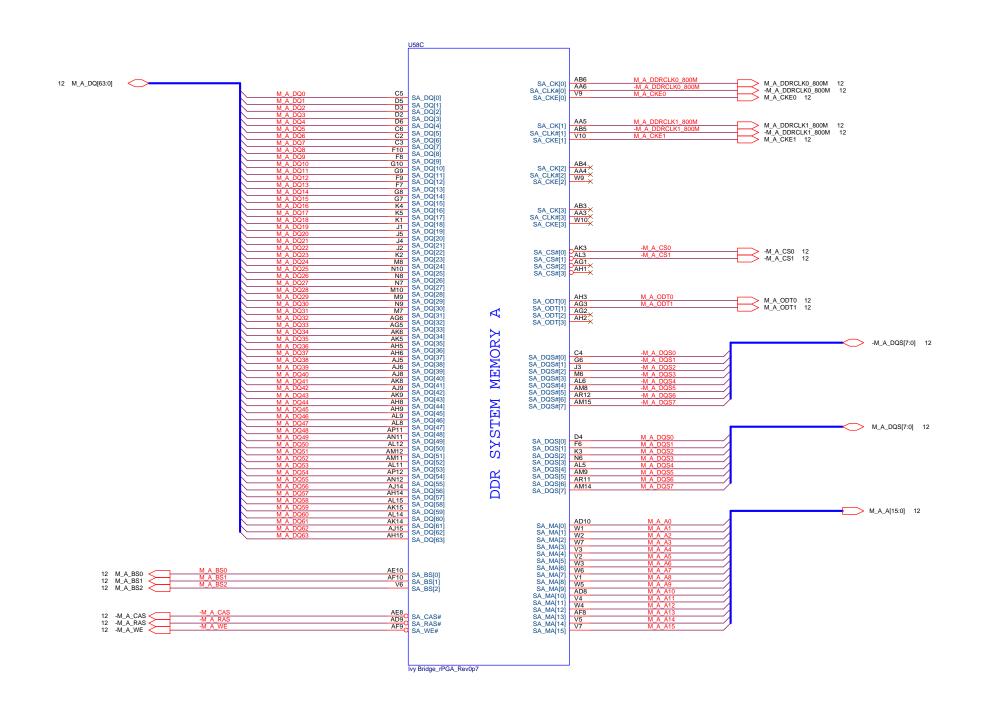
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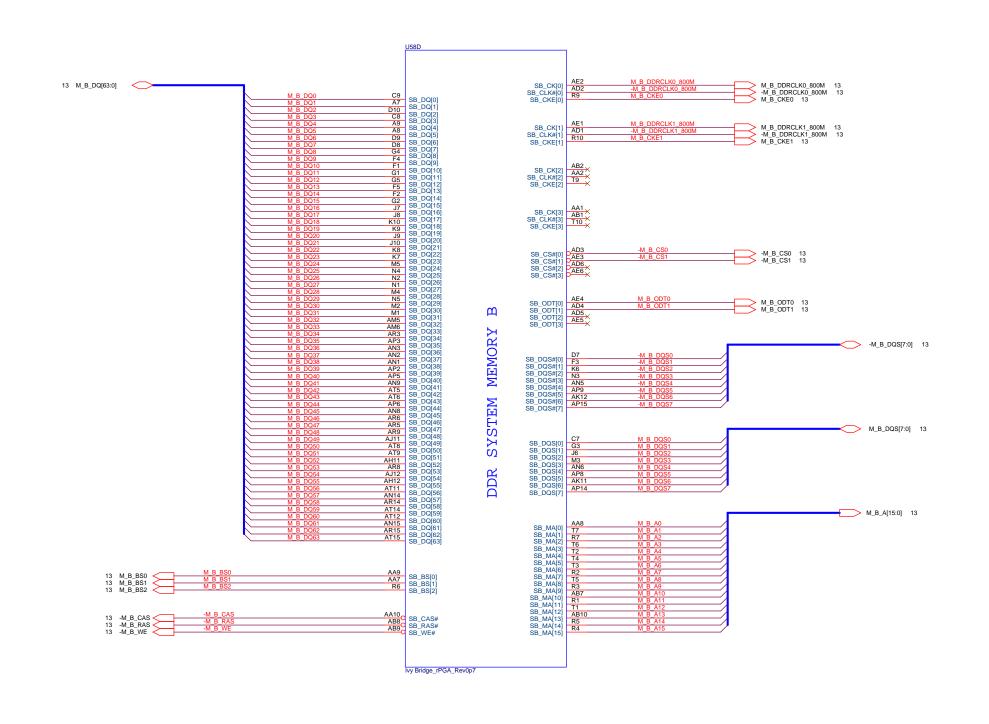
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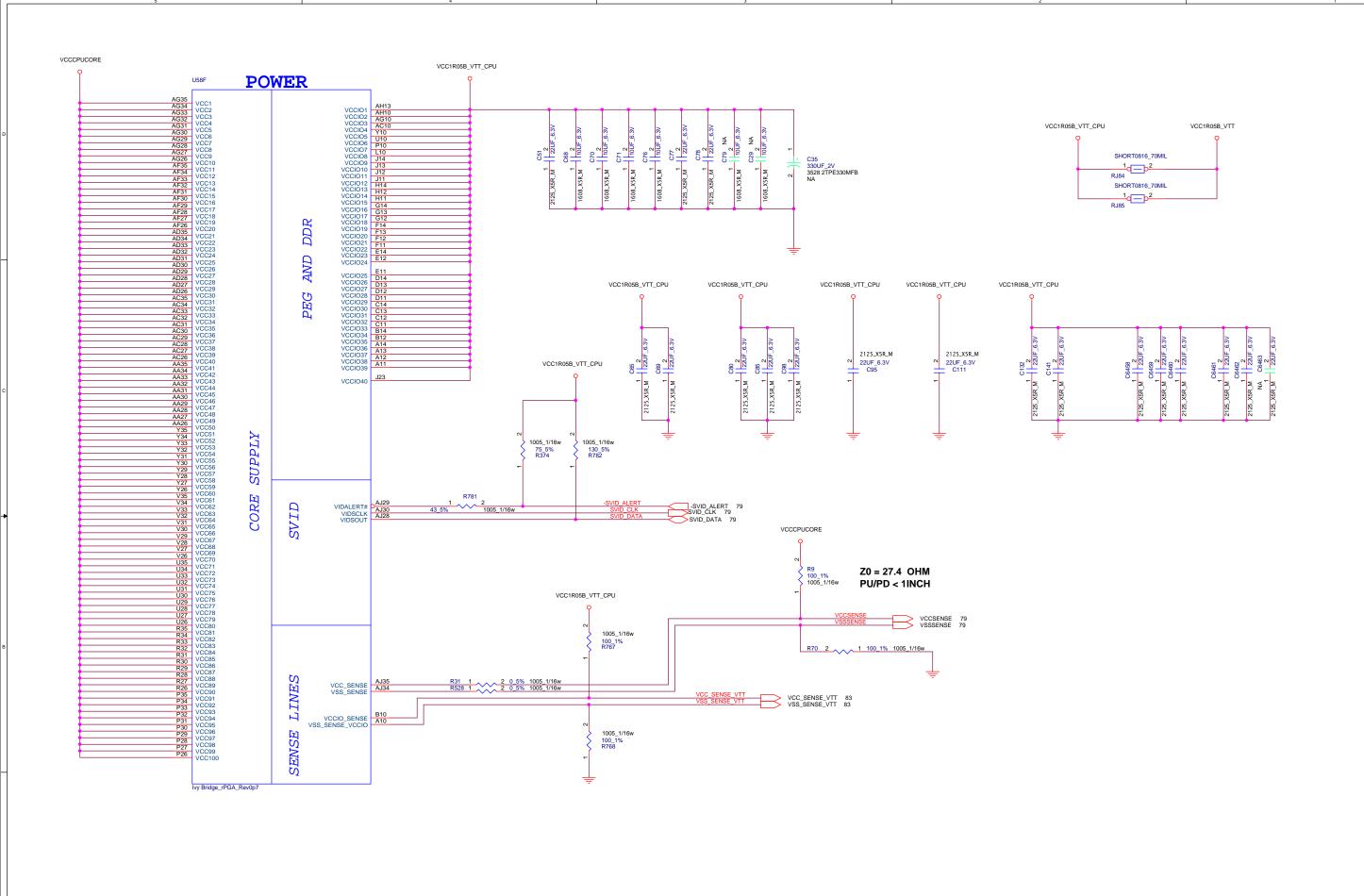
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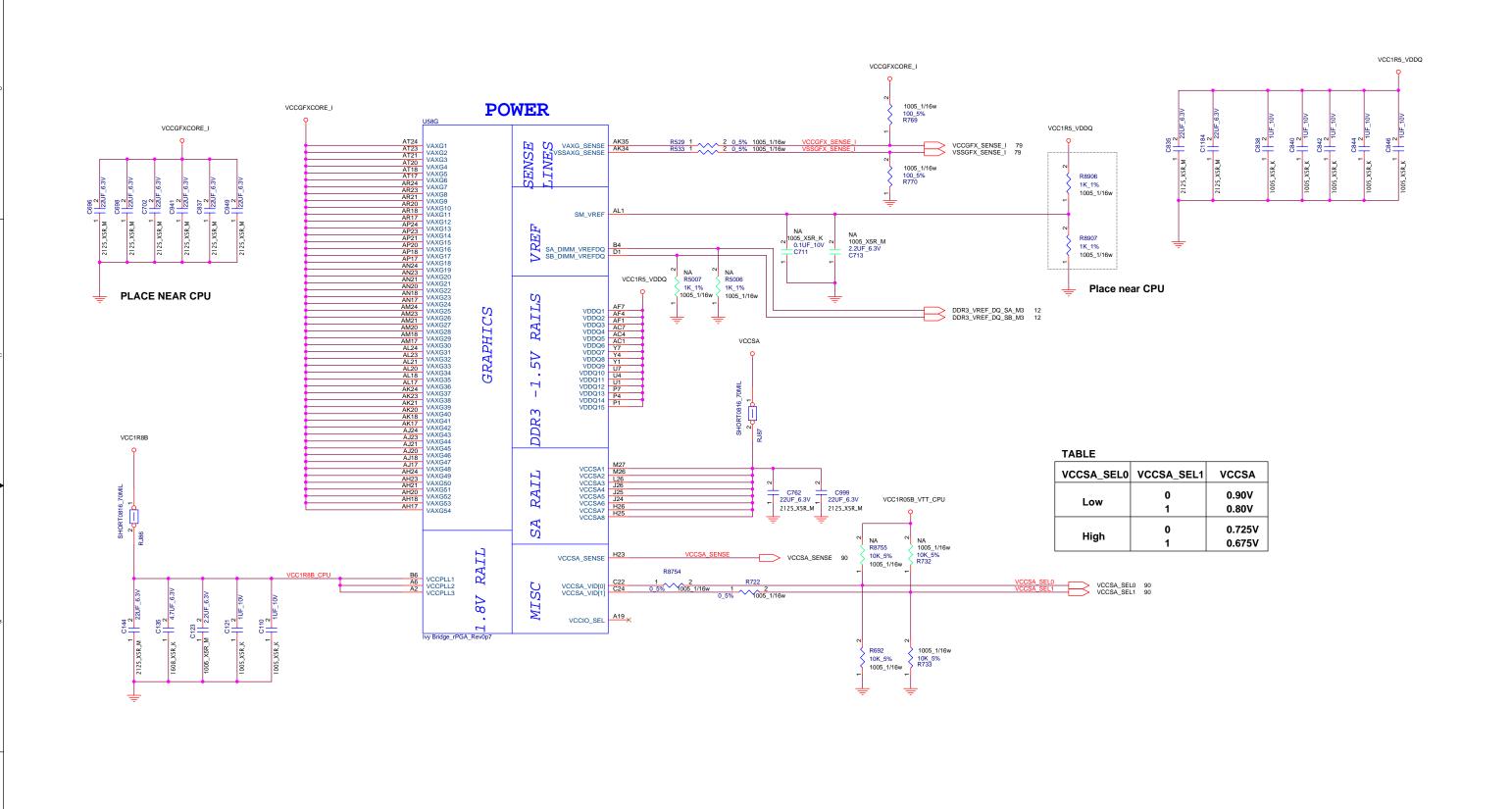




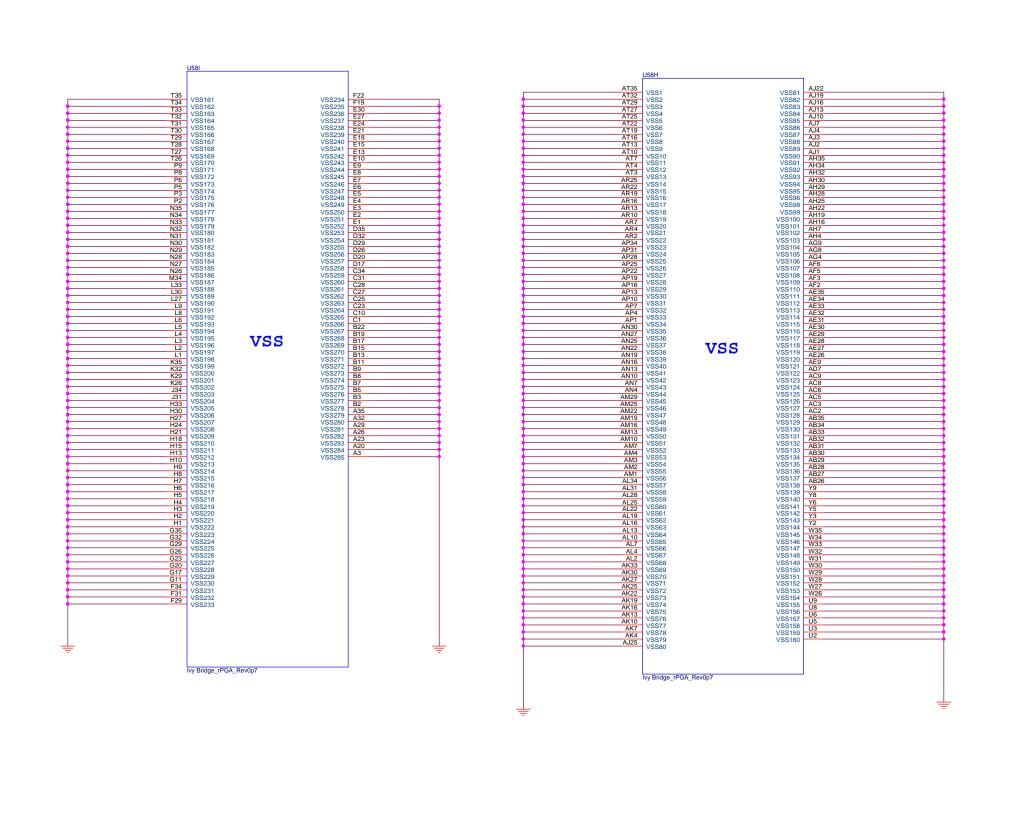




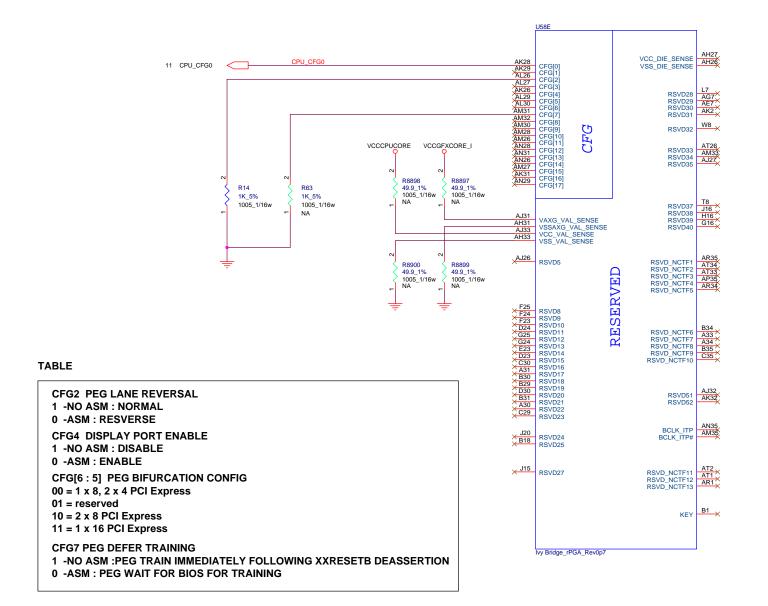
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Date: M	onday, March 19	, 2012	Sheet:	7	of	97	



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Project N NZM-4	lame : SWG SOVP	Title : CPU(6/8) GRAPHIC	S POWER			
Size : C	Document Numbe	r:			Rev : 7.54	
Date: M	Date: Monday, March 19, 2012 Sheet:		8	of	97	
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Project N NZM-4	lame : SWG SOVP	Title: CPU(7/8) GND					
Size : C	Document Number	er:			Rev : 7.54		
Date: M	onday, March 19	9, 2012	Sheet :	9	of	97	



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Project N NZM-4	lame : SWG SOVP	Title : CPU(8/8) CFG/RE	SERVED			
Size : C	Document Numbe	r:			Rev : 7.54	
Date: M	onday, March 19	, 2012	Sheet :	10	of	97

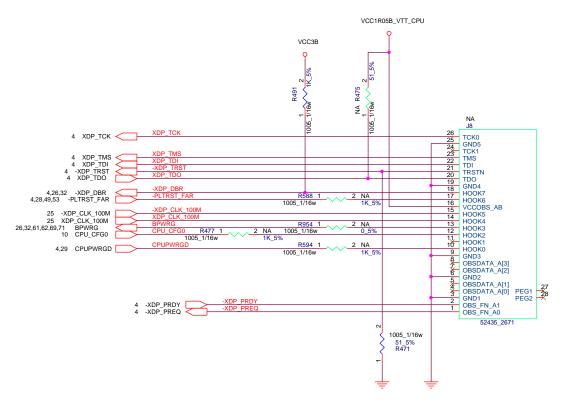
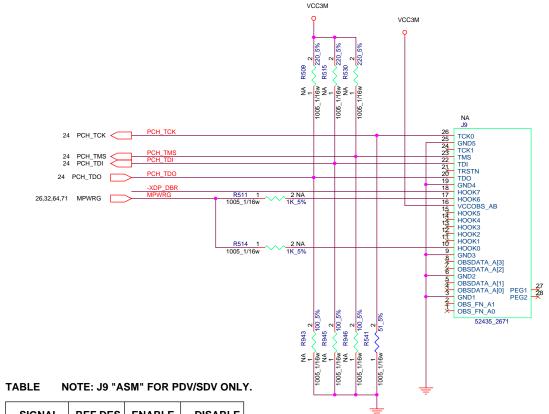


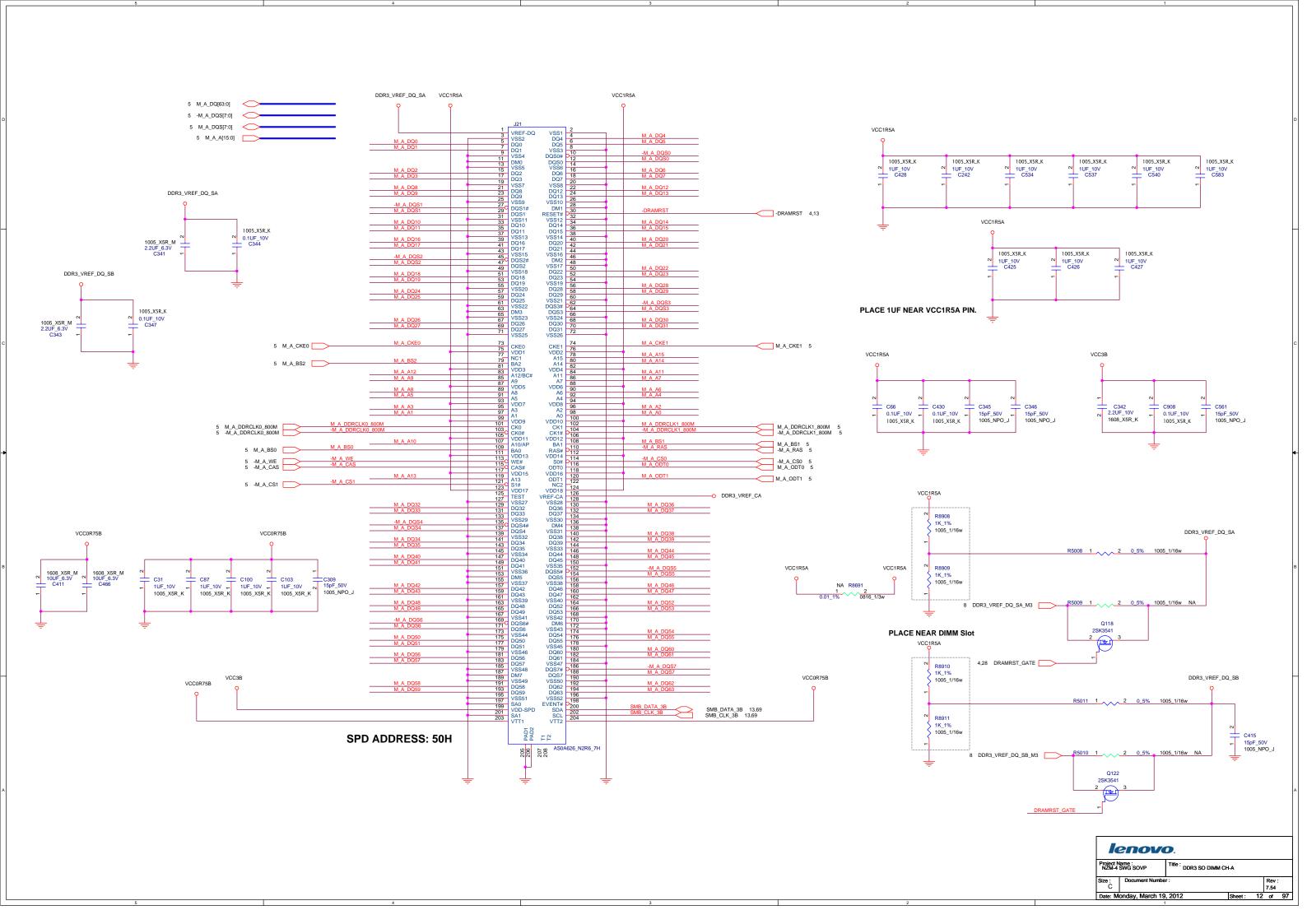
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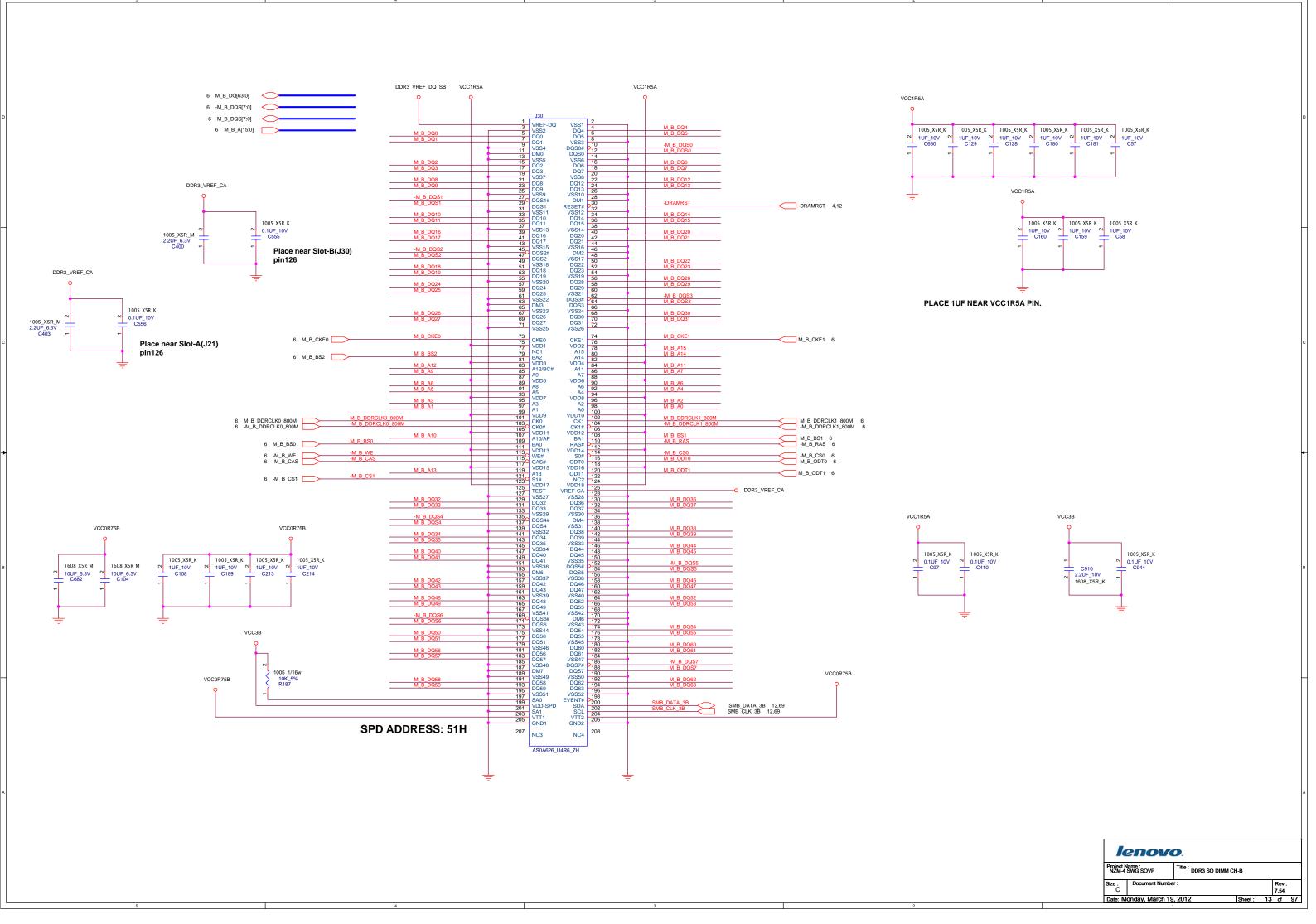
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TDO	R475	ASM	NO ASM
TRST#	R471	ASM	ASM
DBRST#	R491	ASM	ASM
RESET#	R588	ASM	NO ASM
CFG0	R477	ASM	NO ASM
PWRGD	R594	ASM	NO ASM
BPWRG	R954	ASM	NO ASM
	J8	ASM	NO ASM
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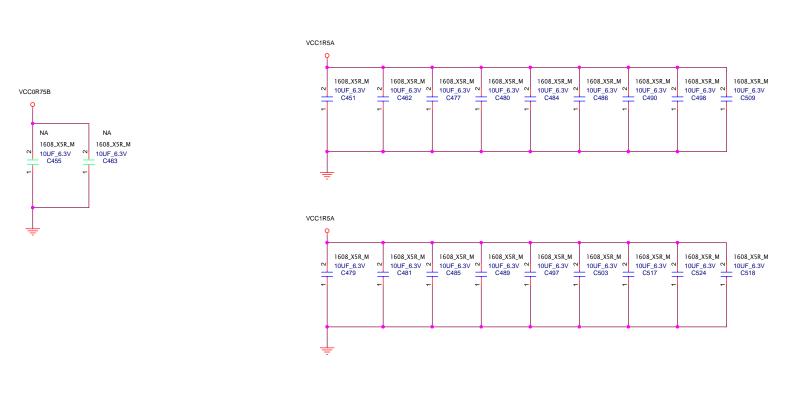
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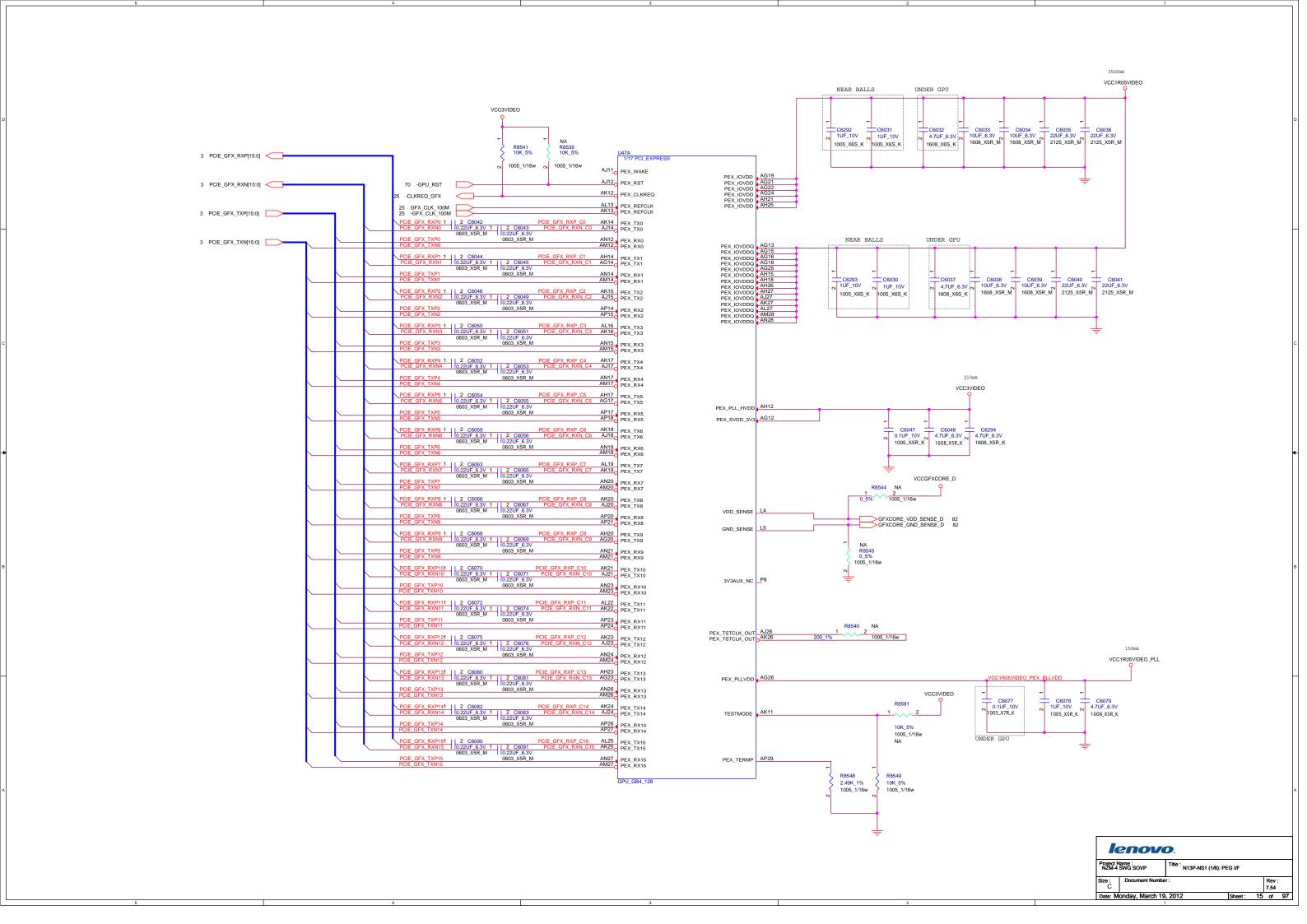
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TDO	R509	220	NO ASM		
100	R943	100	NO ASM		
TMS	R530	220	NO ASM		
IIVIS	R946	100	NO ASM		
TDI	R515	220	NO ASM		
וטו	R945	100	NO ASM		
тск	R541	51	51		
MPWRG	R511	ASM	NO ASM		
	R514	ASM	NO ASM		
	J9	ASM	NO ASM		
	,		\frown		
	LOGIC				

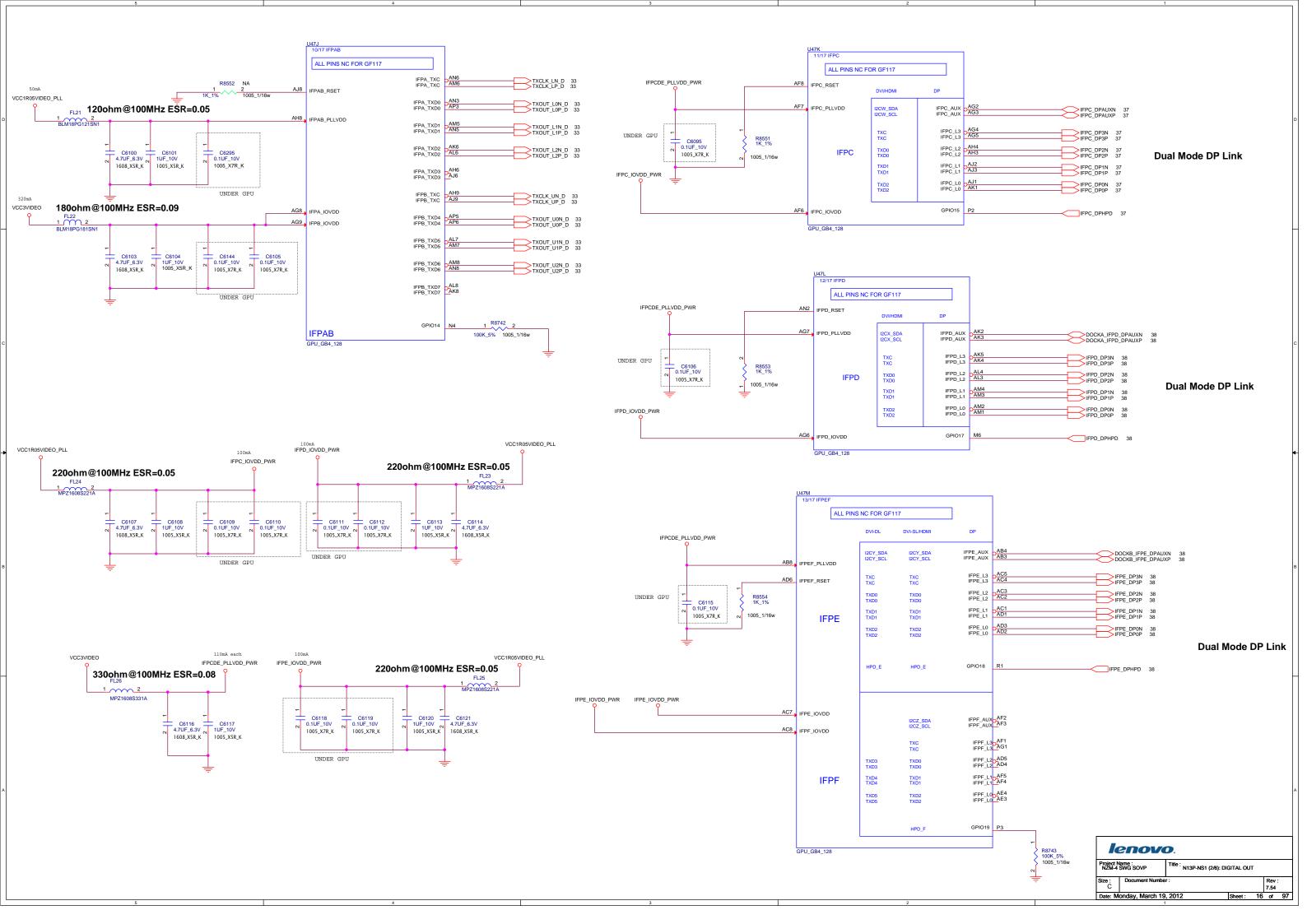


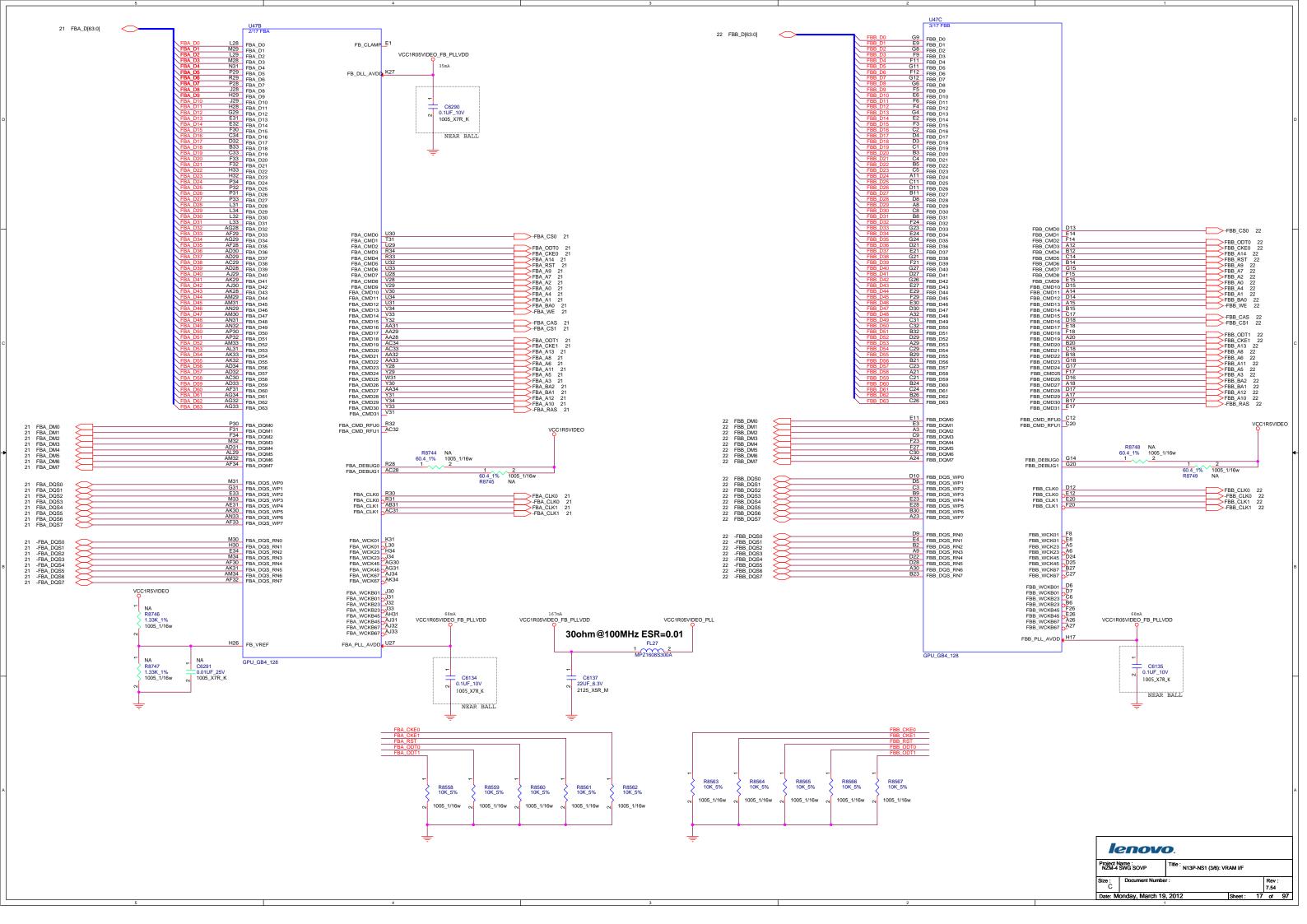


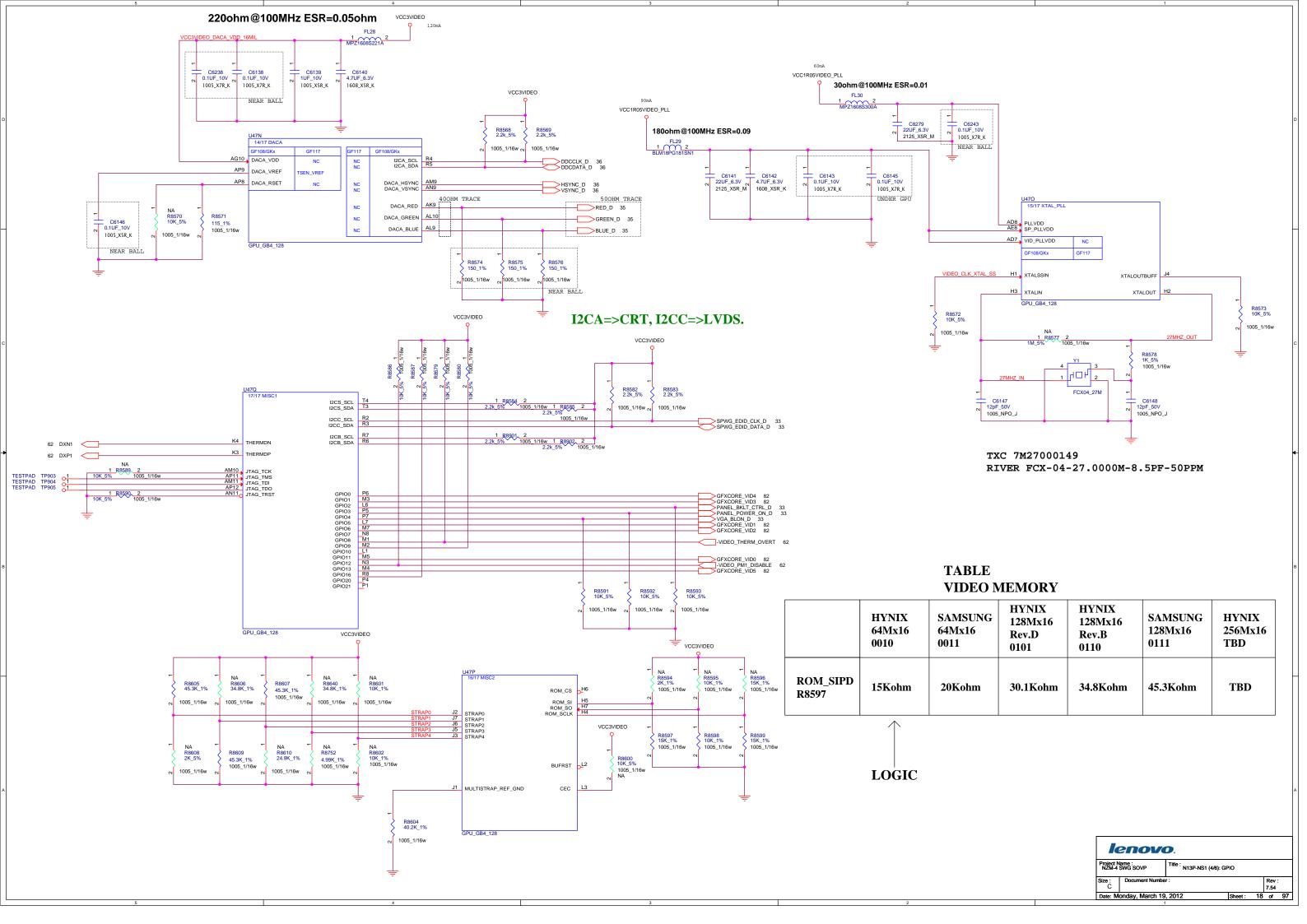


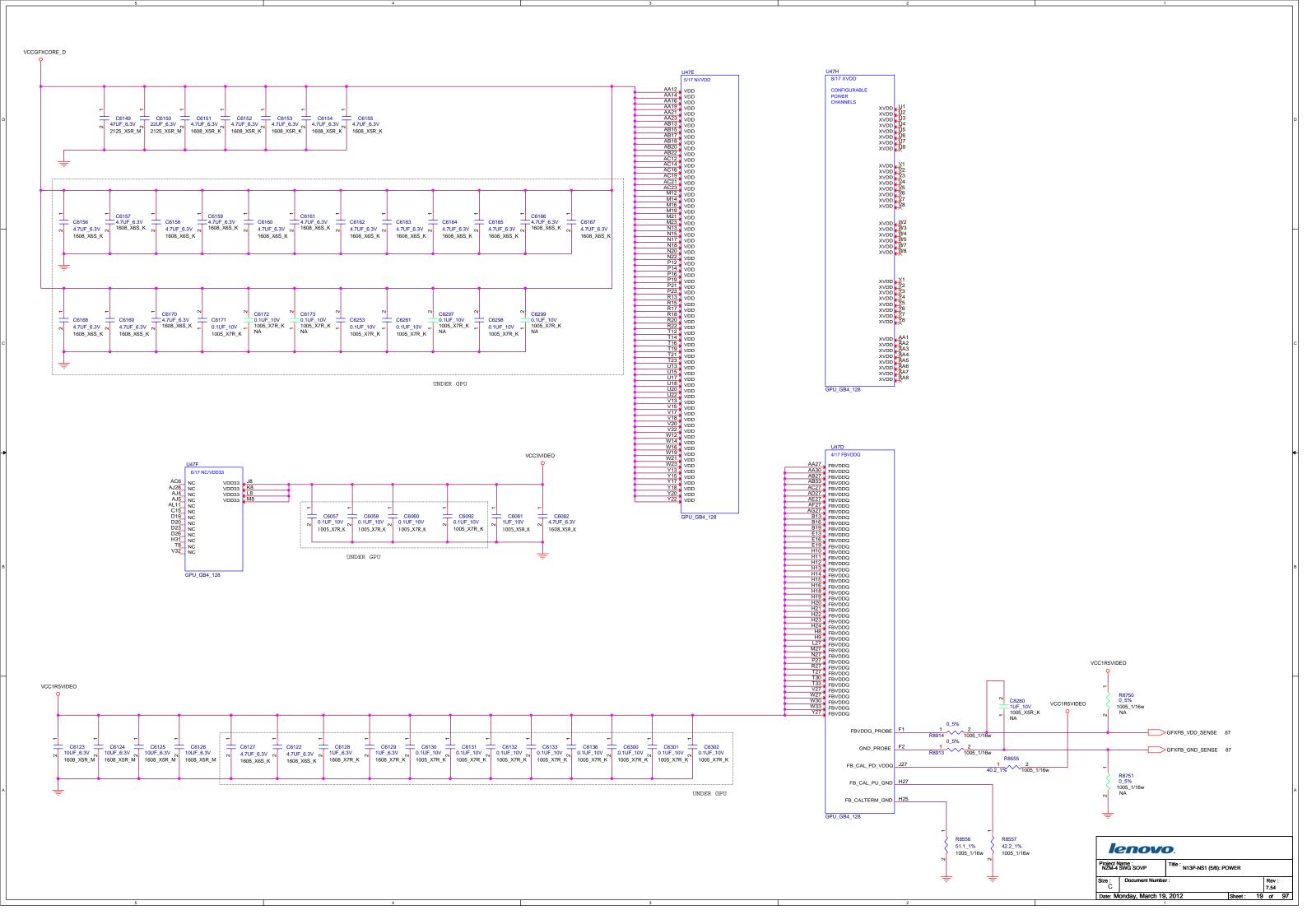
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Date: M	onday, March 19	, 2012	Sheet:	14	of	97

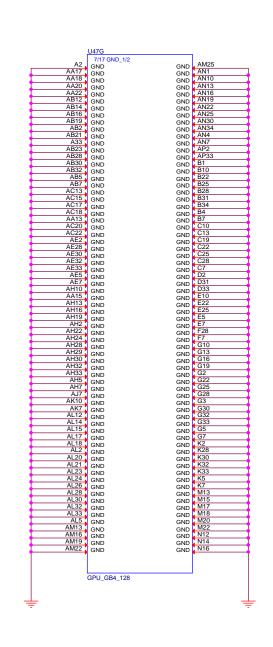


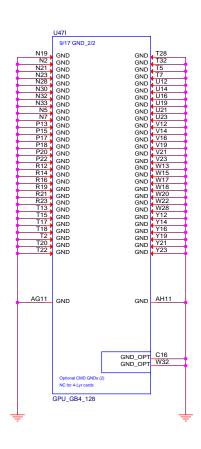


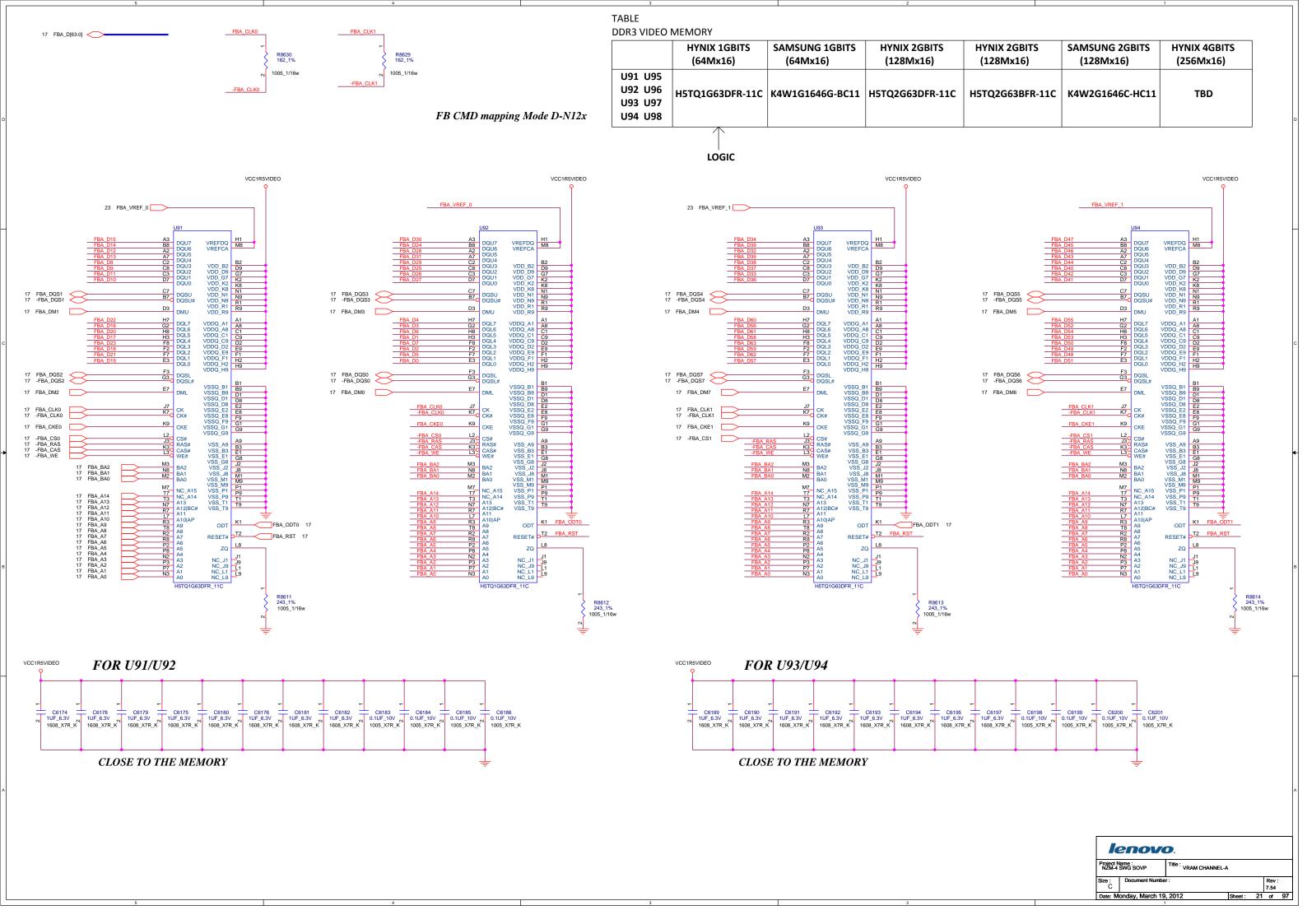


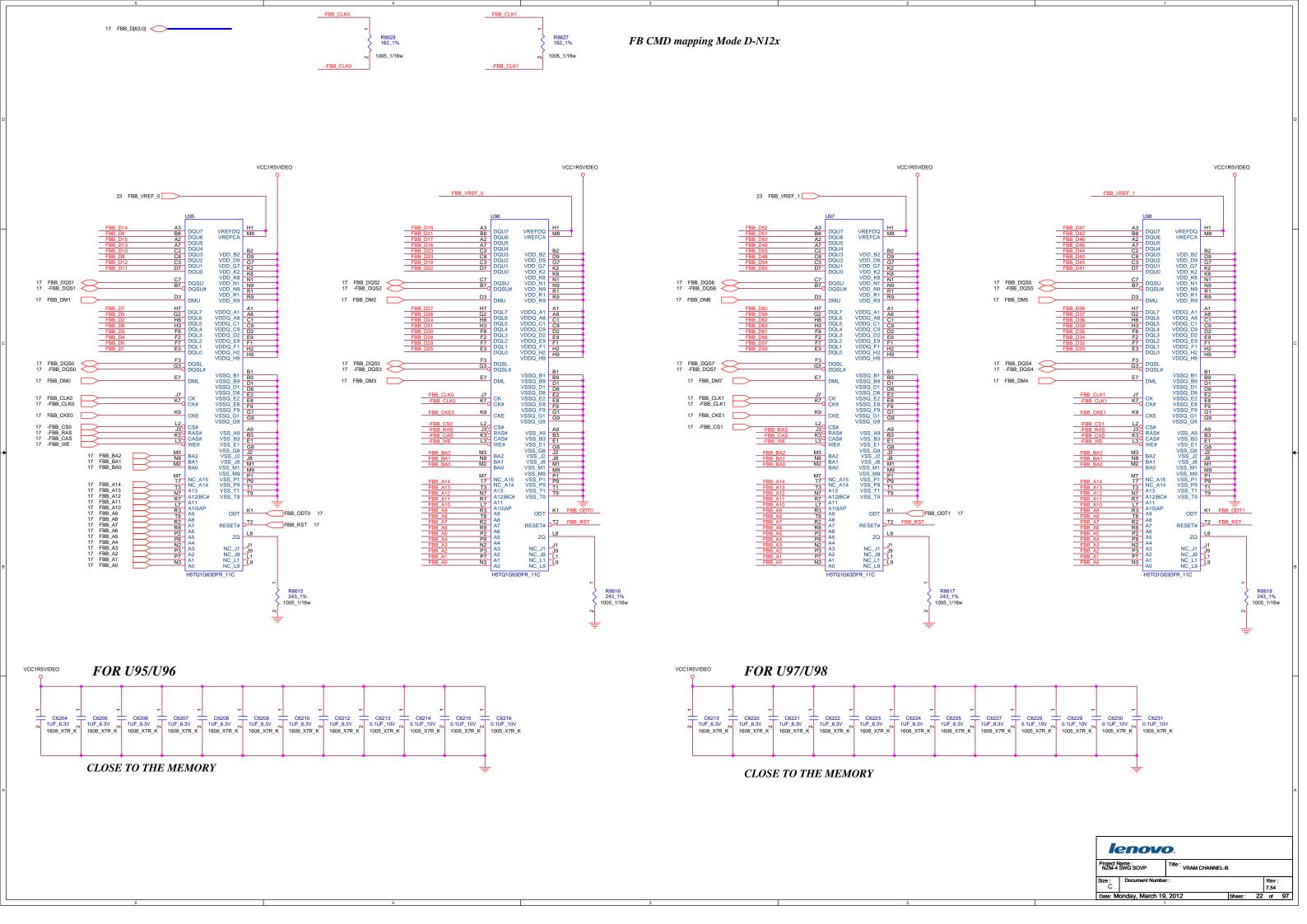


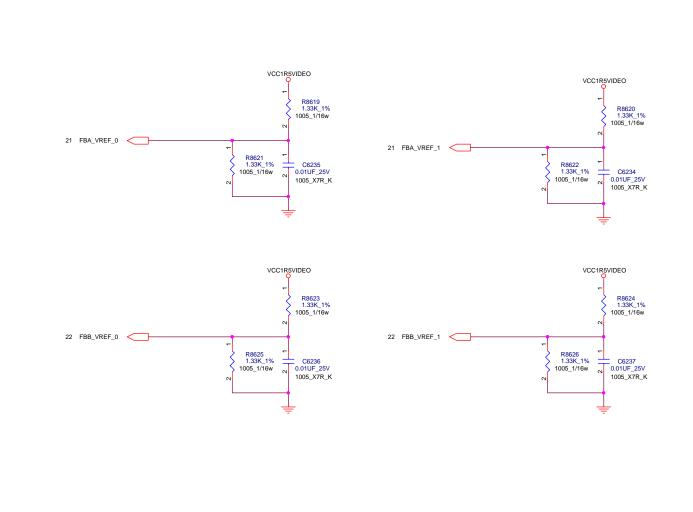




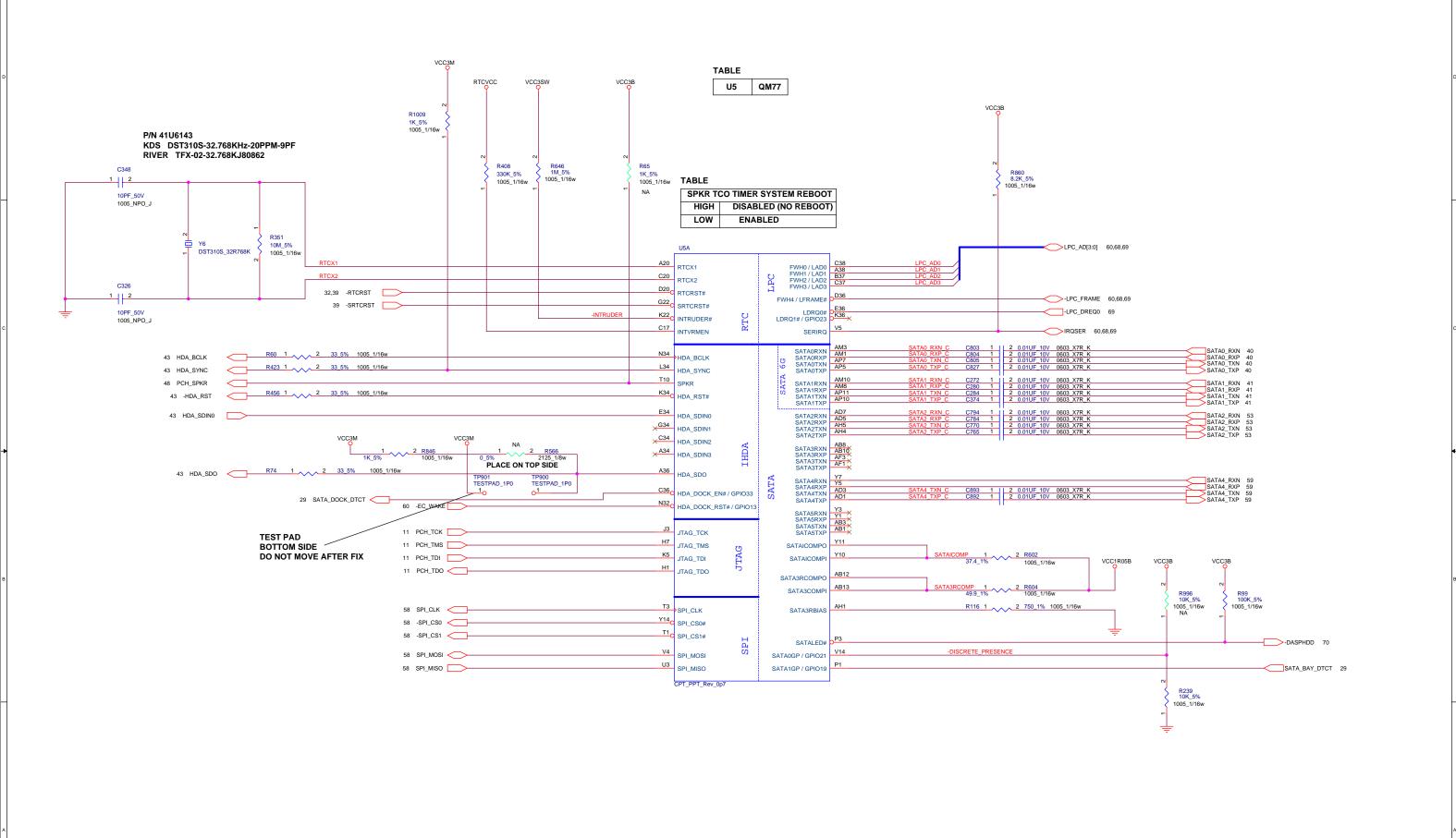




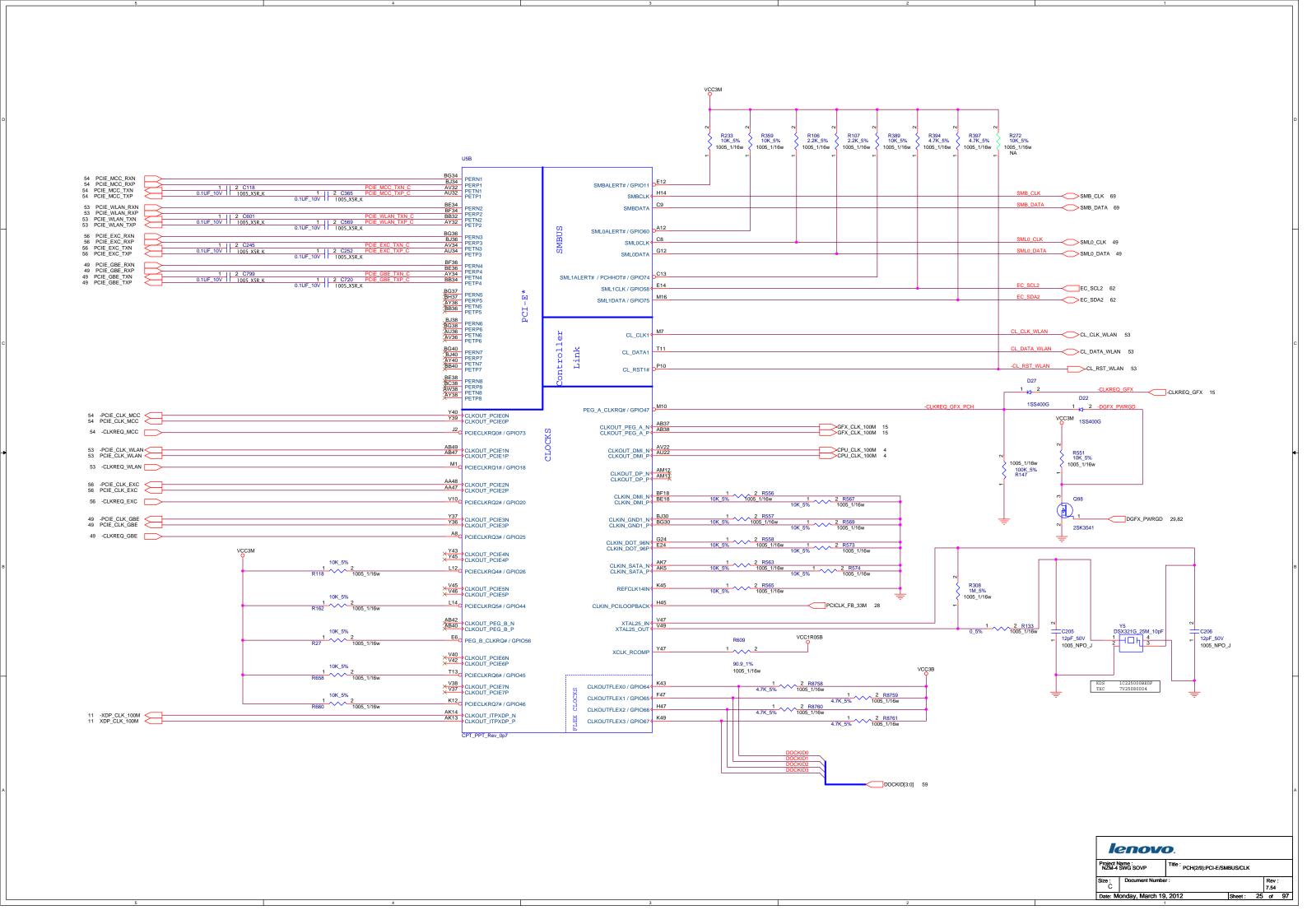


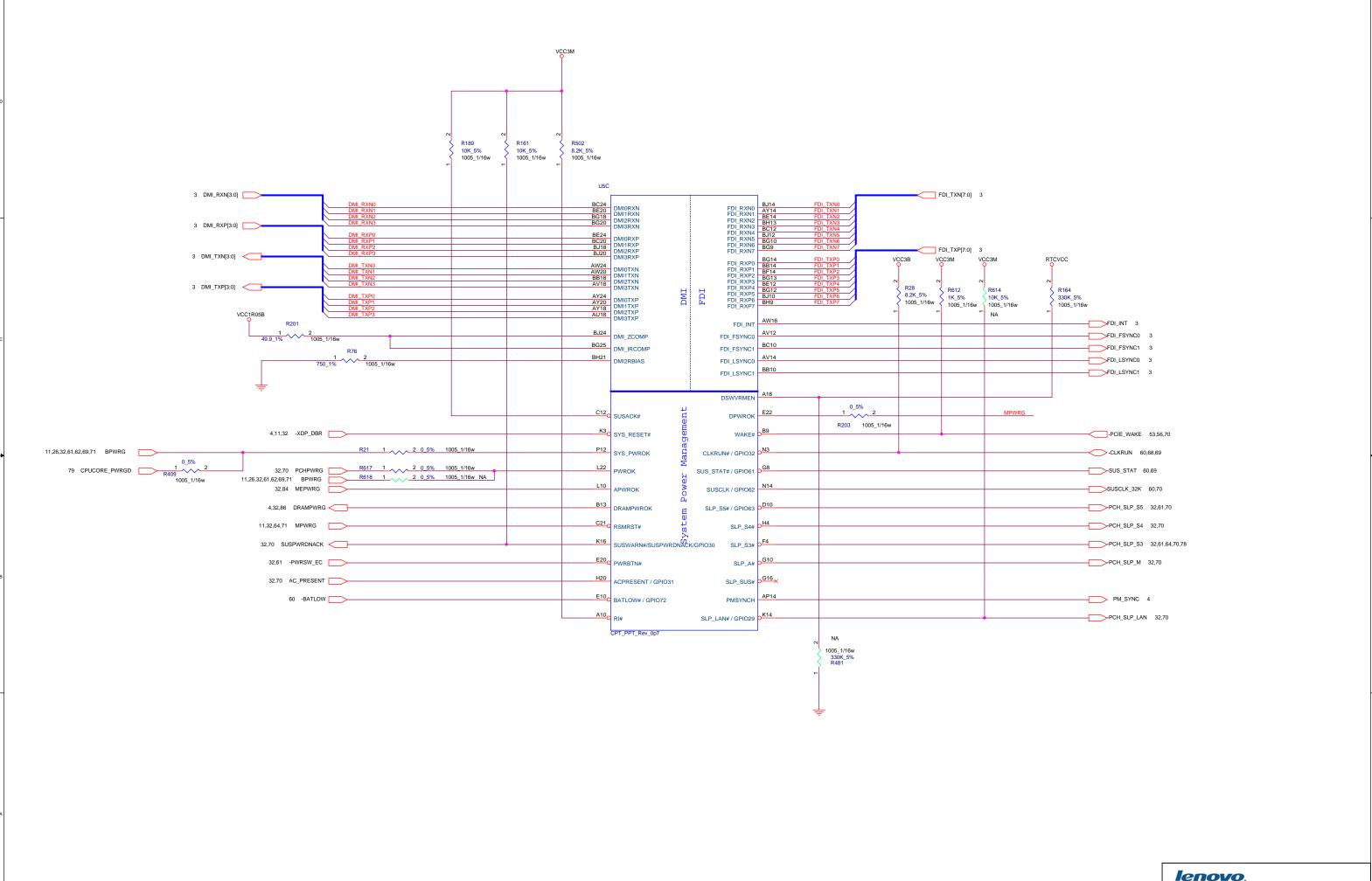


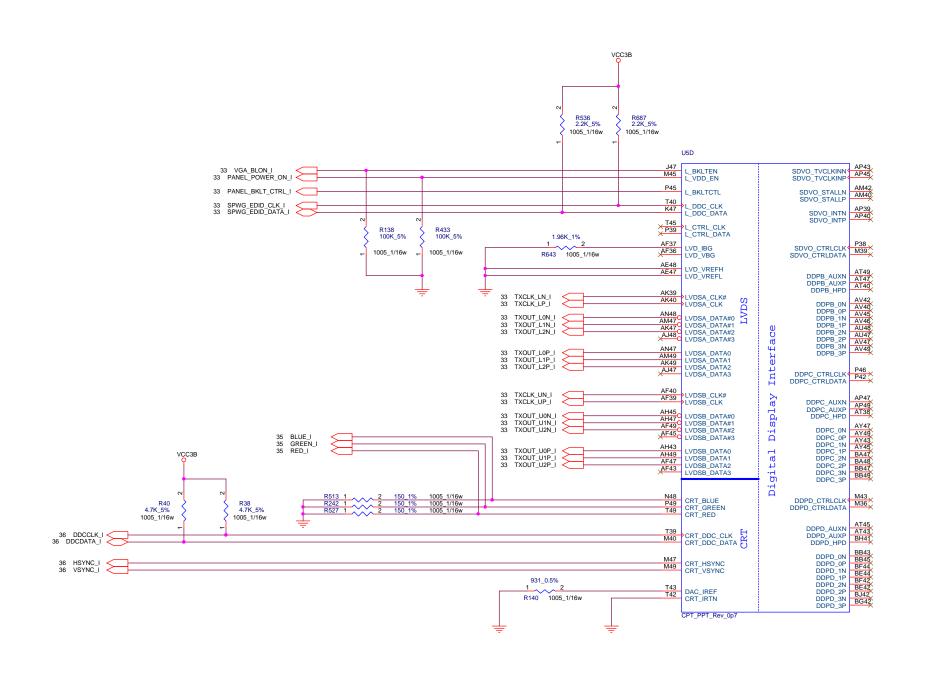
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Date: M	onday, March 19	, 2012	Sheet:	23	of	97



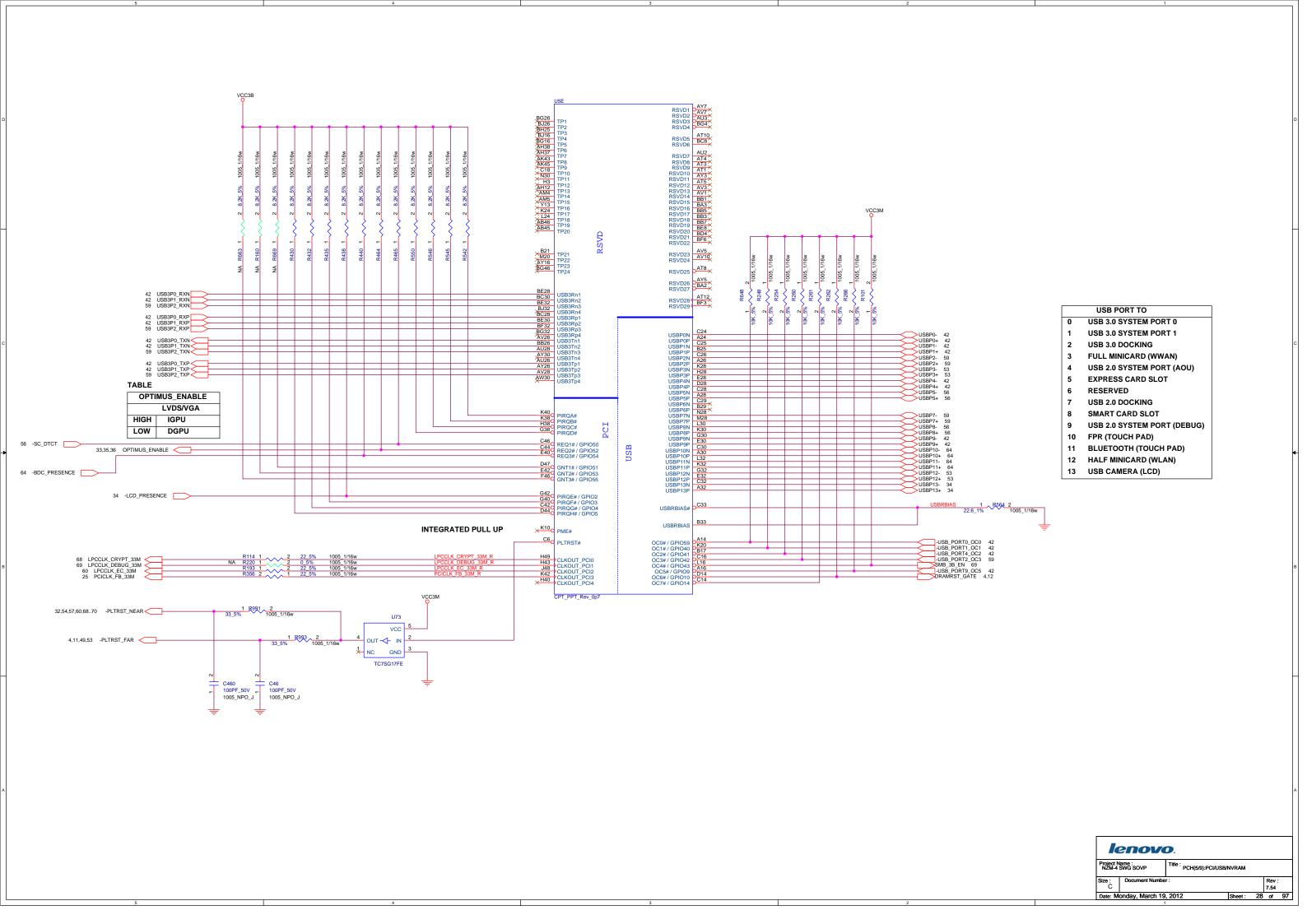
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Date: M	onday, March 19	, 2012	Sheet :	24	of	97		
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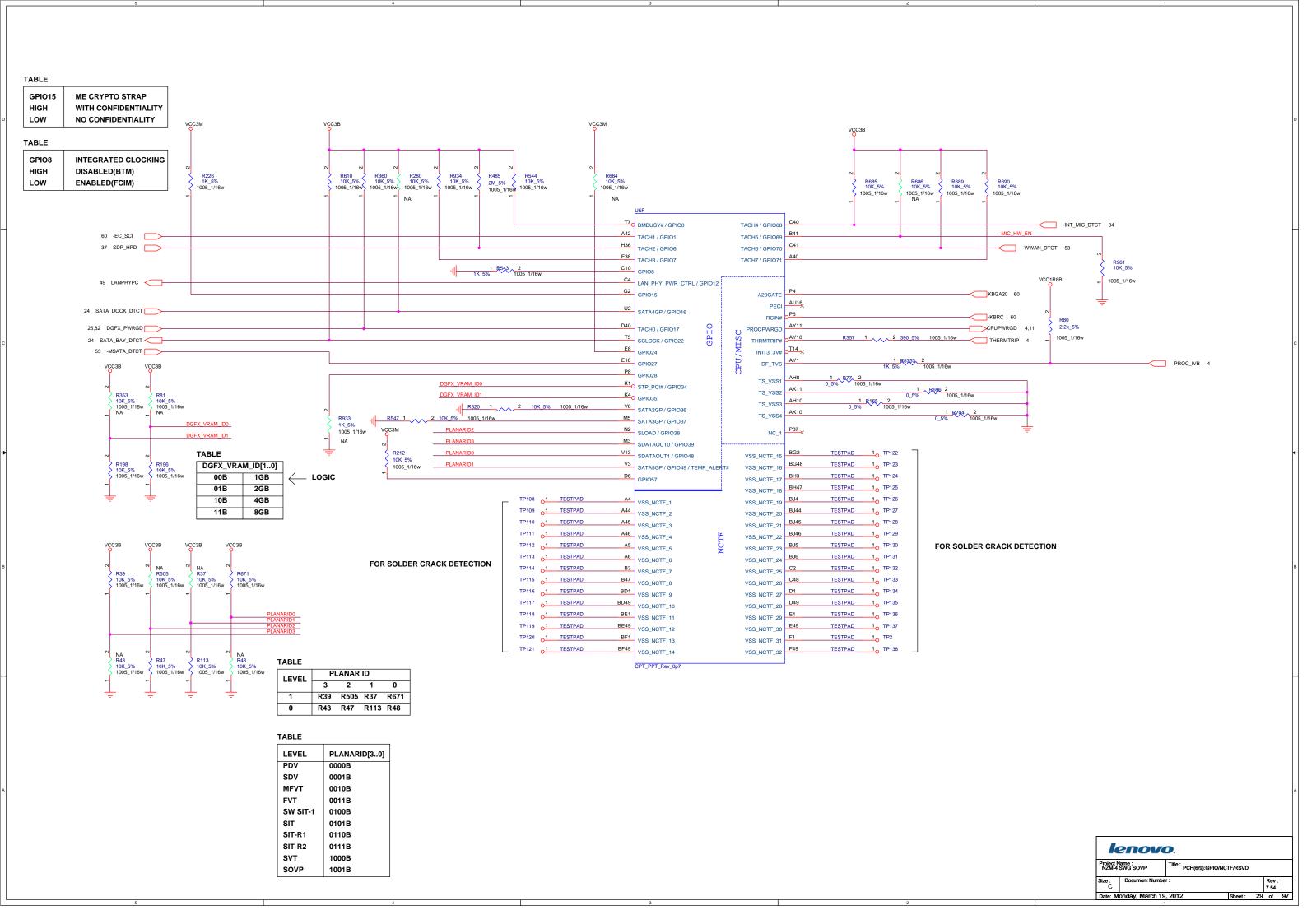


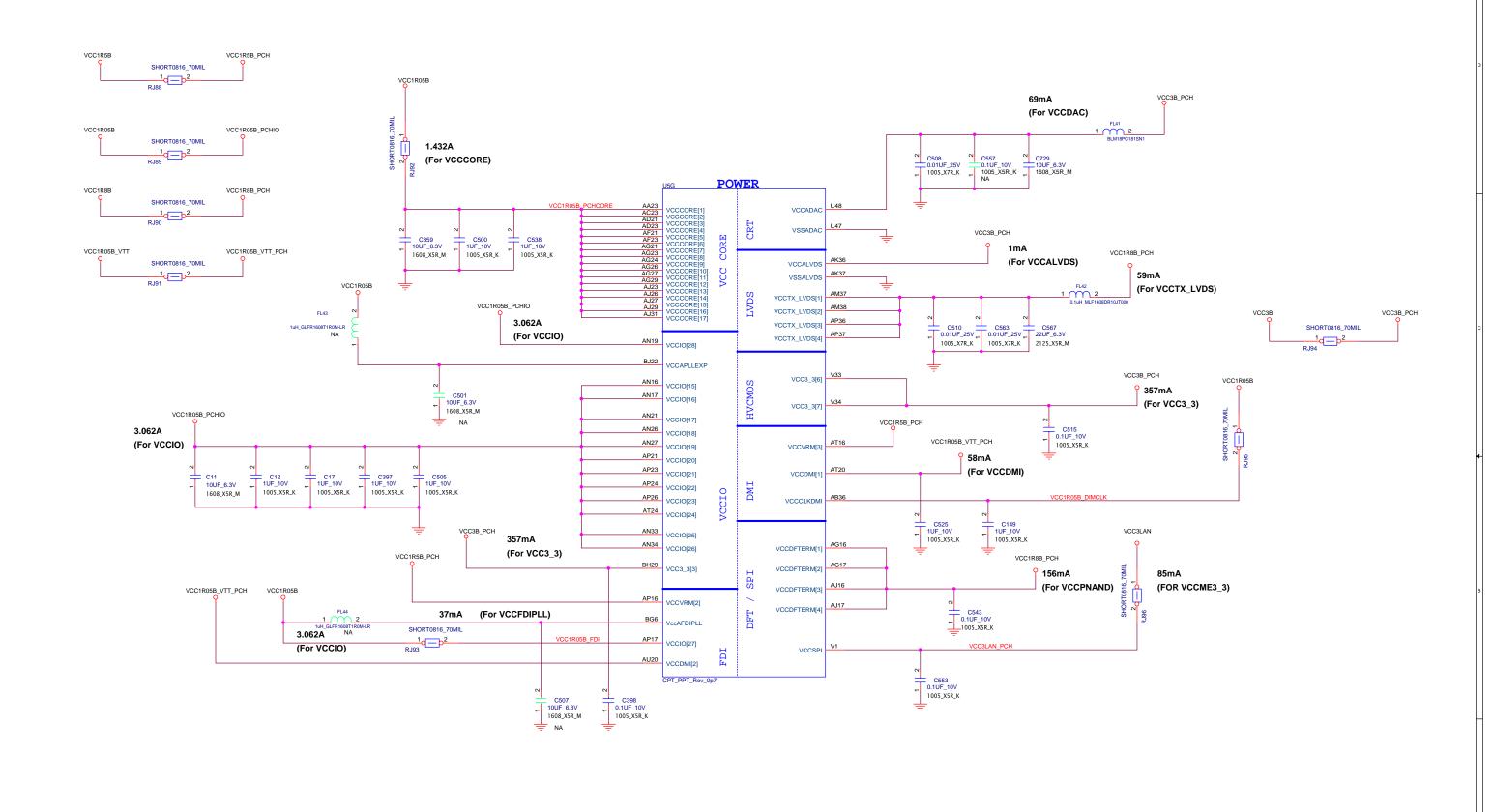




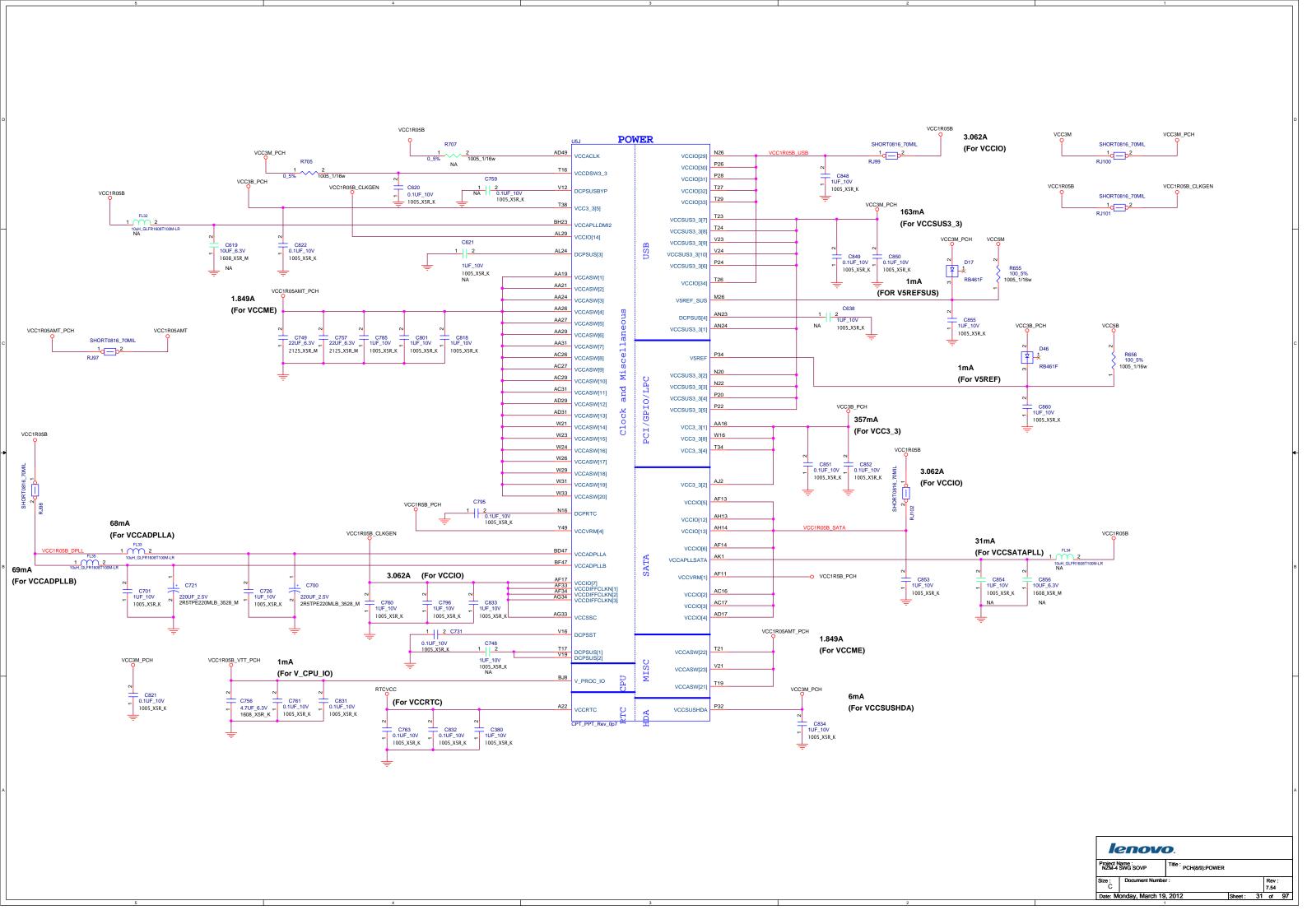
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Date: M	onday, March 19	, 2012	Sheet :	27	of	97







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Project Name : NZM-4 SWG SOVP		Title : PCH(7/9):POWER				
Size : C	Document Numbe	r:			Rev : 7.54	
Date: M	onday, March 19	, 2012	Sheet:	30	of	97



TEST PAD FOR METS/APS TP9 TESTPAD_1P0 TP16 TESTPAD_1P0 TP23 TESTPAD_1P0 TP31 TESTPAD_1P0 TP13 TESTPAD_1P0 TP19 TESTPAD_1P0 TP25 TESTPAD_1P0 26,70 -PCH SLP M 26,61,70 -PCH_SLP_S5 26,61,64,70,78 -PCH_SLP_S3 26,70 -PCH SLP_S4 59,63,69,70 -PWRSWITCH TP11 TESTPAD_1P0 TP17 TESTPAD_1P0 TP24 TESTPAD_1P0 TP33 TESTPAD_1P0 TP14 TP34 TESTPAD_1P0 TP21 TESTPAD 1P0 TP28 TESTPAD 1P0 TESTPAD 1P0 TESTPAD 1P0 26,70 -PCH_SLP_LAN 26.70 AC PRESENT 28,54,57,60,68..70 -PLTRST_NEAR 11,26,64,71 MPWRG 11.26.61.62.69.71 BPWRG 26,70 PCHPWRG 26,84 MEPWRG 4,26,86 DRAMPWRG TP12 TESTPAD_1P0 TP18 TESTPAD_1P0 TP15 TESTPAD_1P0 VCC3LAN VCC1R05AMT TP22 TESTPAD_1P0 TP20 TESTPAD_1P0 TP30 TESTPAD_1P0

AA17

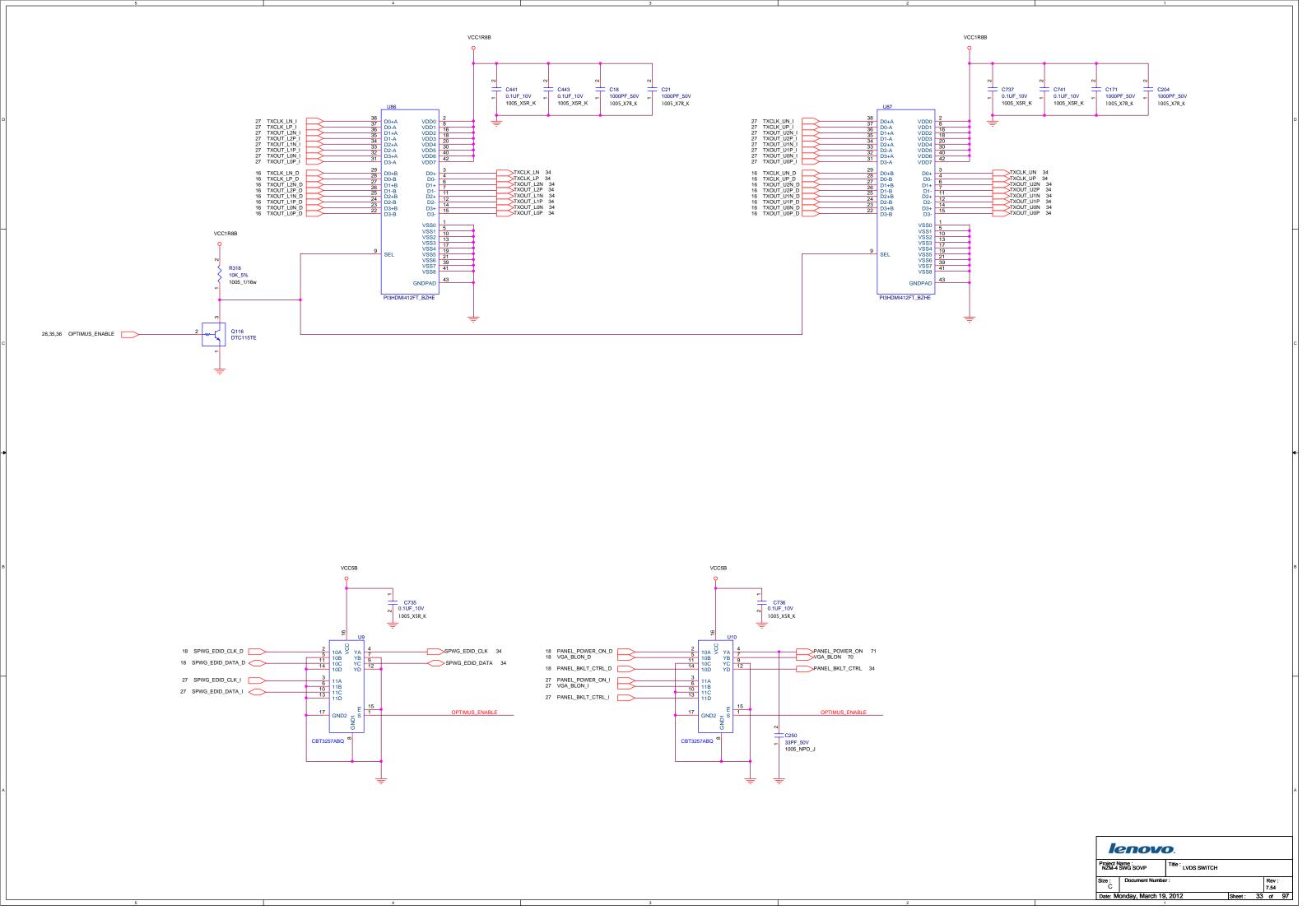
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AA3 VSS121
AA3 VSS121
AA34 VSS121
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AB11 VSS56
AB34 VSS18
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AB65 VSS110
AB75 VSS111
AB76 VSS111
AB76 VSS111
AB76 VSS111
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AB78 VSS111
AB79 VSS121
A

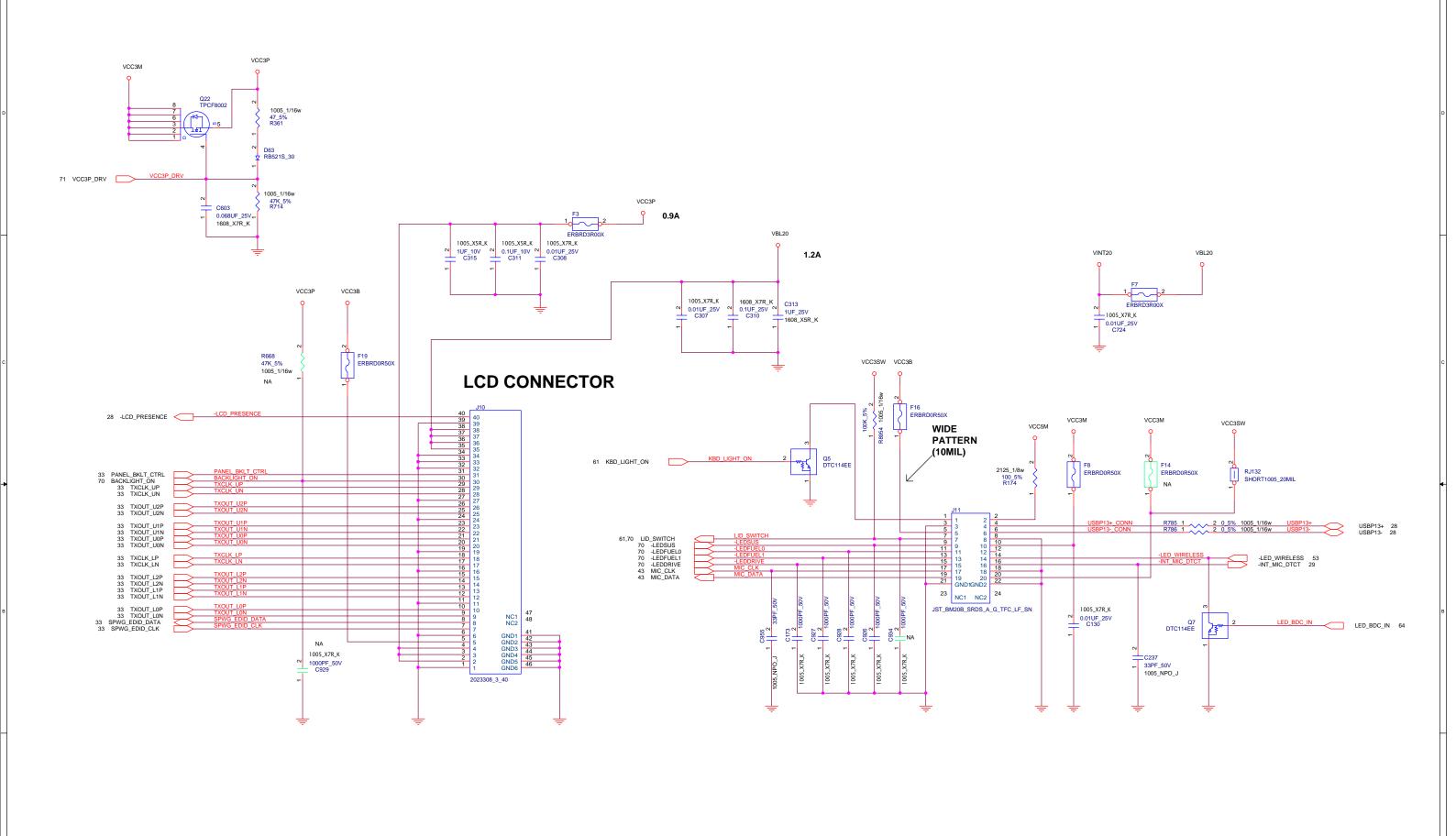
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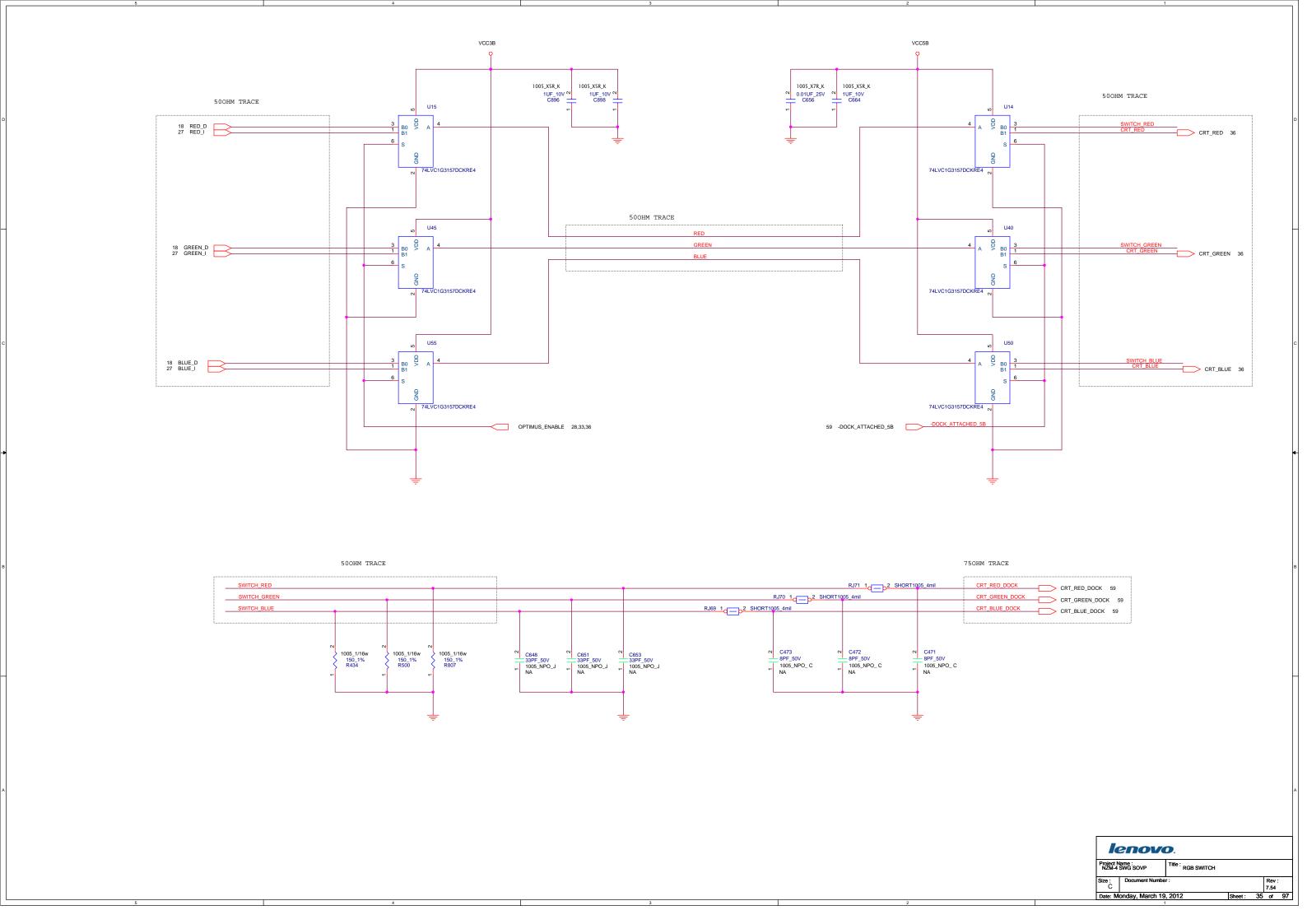
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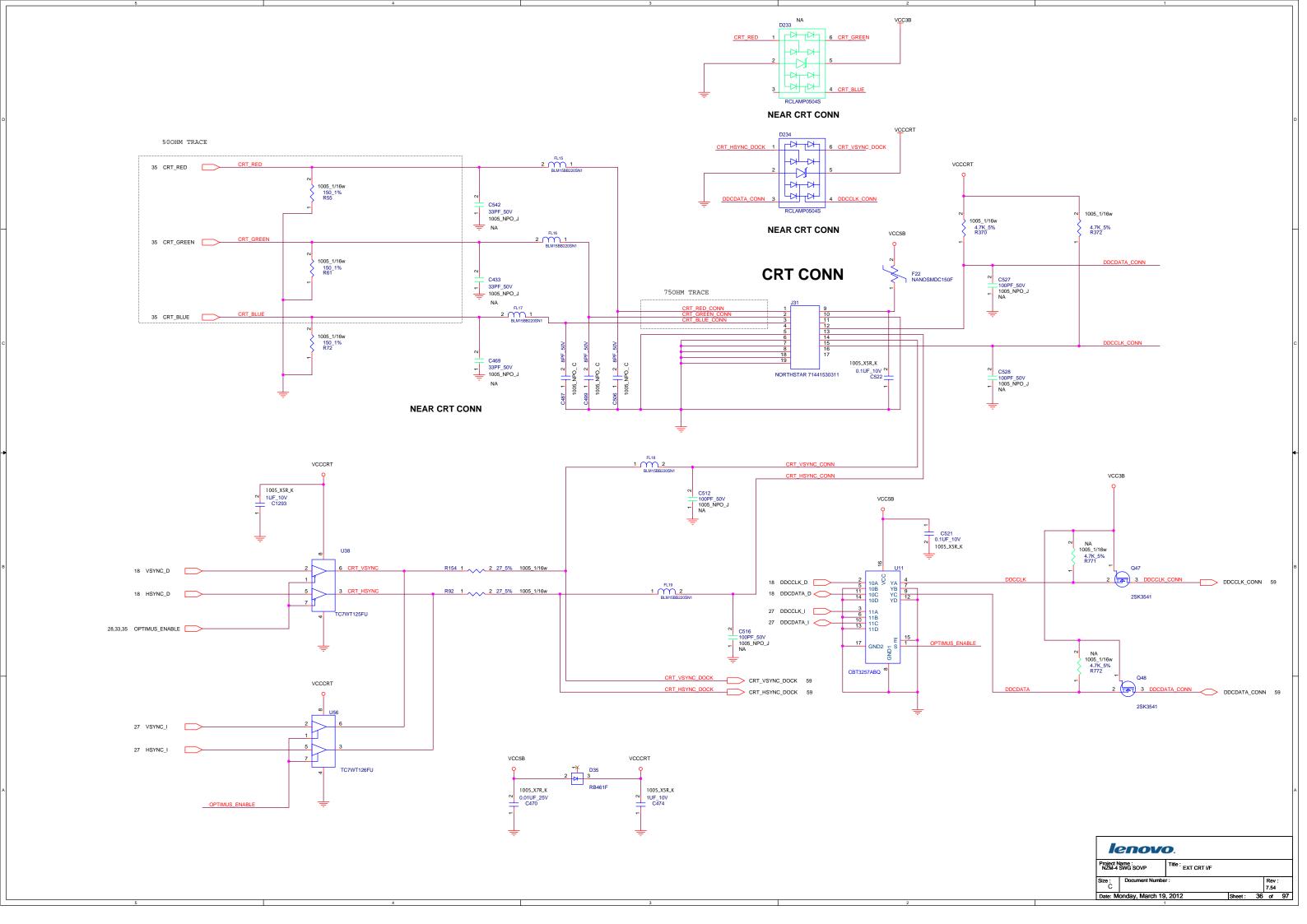
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Project Name : NZM-4 SWG	SOVP	Title : PCH(9/9):GND				
Size : Doo	ument Numbe	r:			Rev : 7.54	
Date: Monda	y, March 19	, 2012	Sheet :	32	of	97

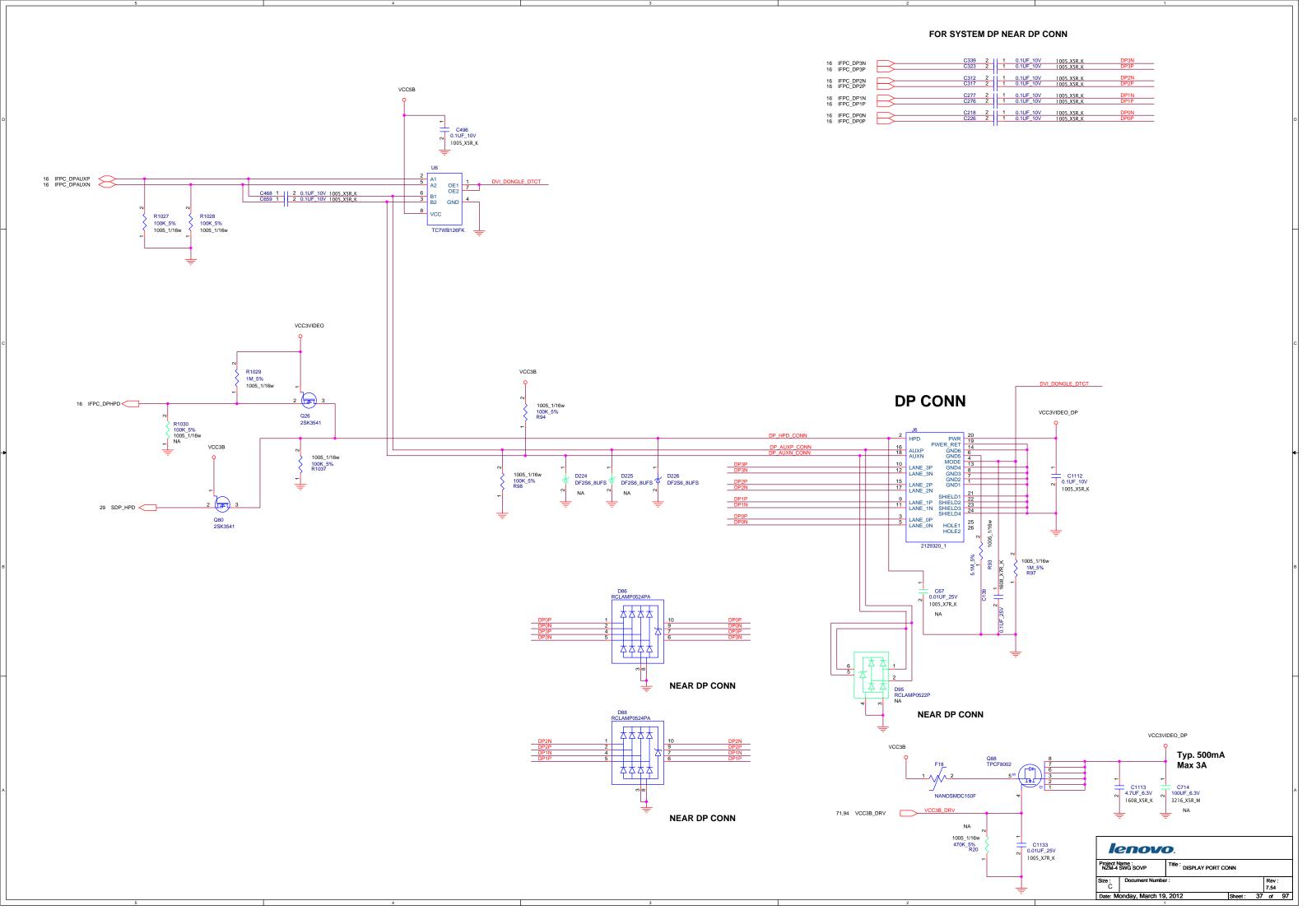


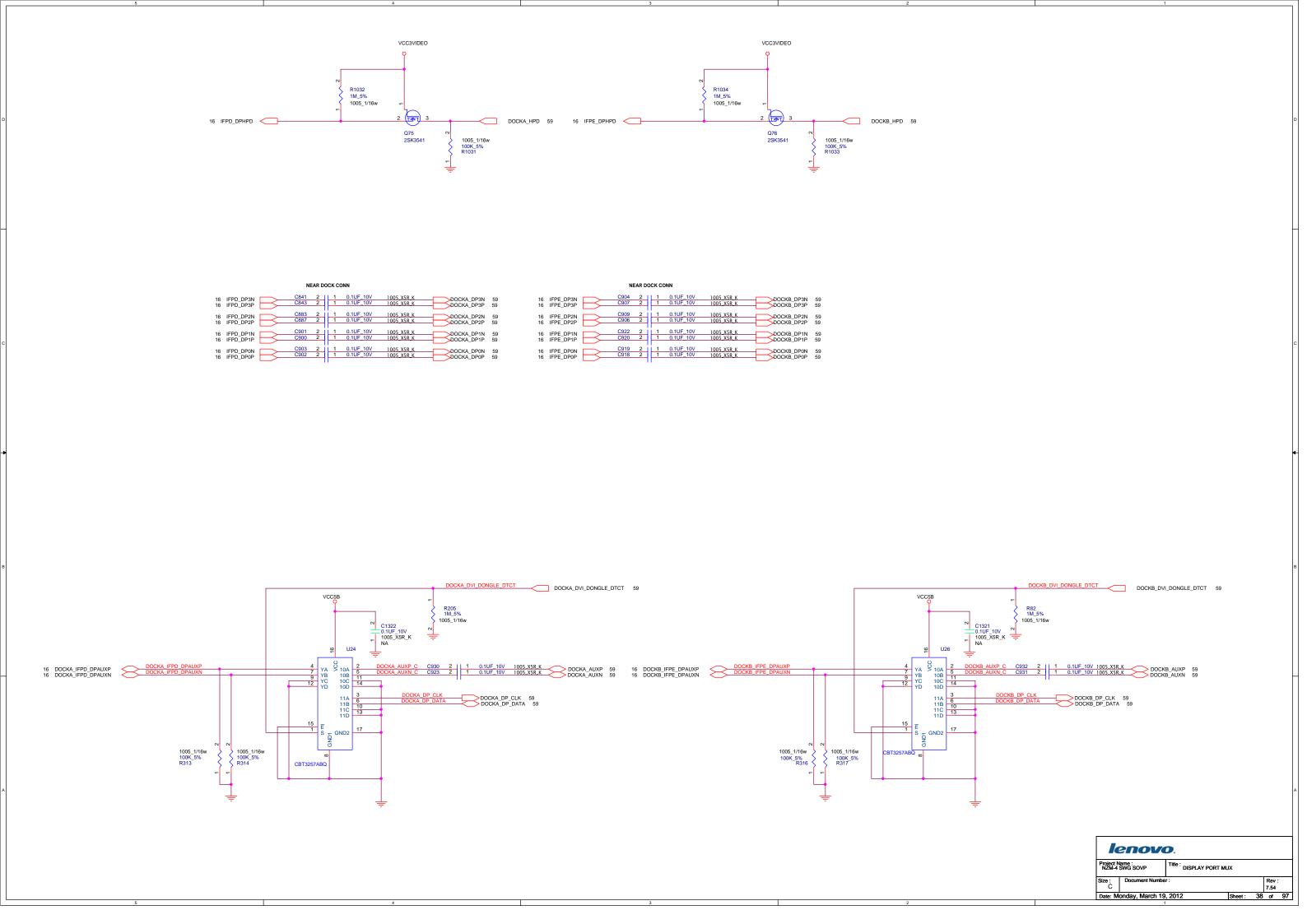


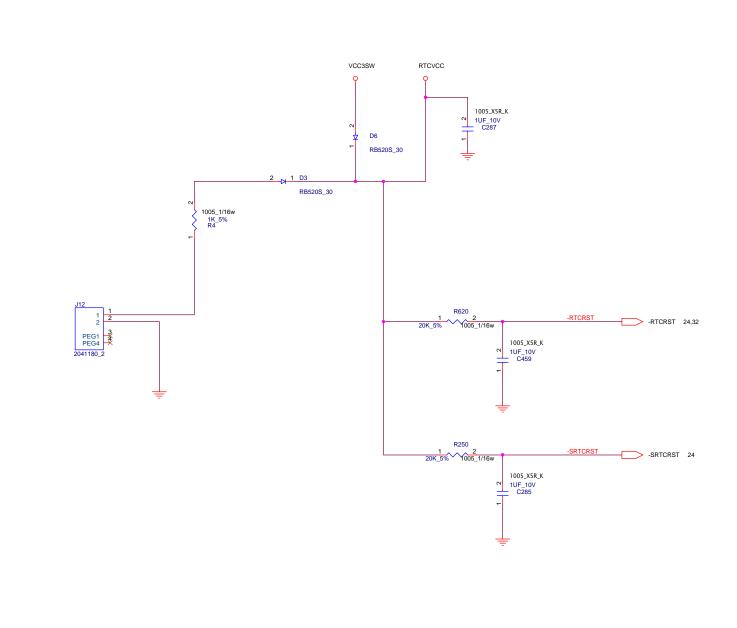
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Size : Document Numbe	r:	Rev : 7.54	
Date: Monday, March 19	, 2012 Sheet: 34	of	97

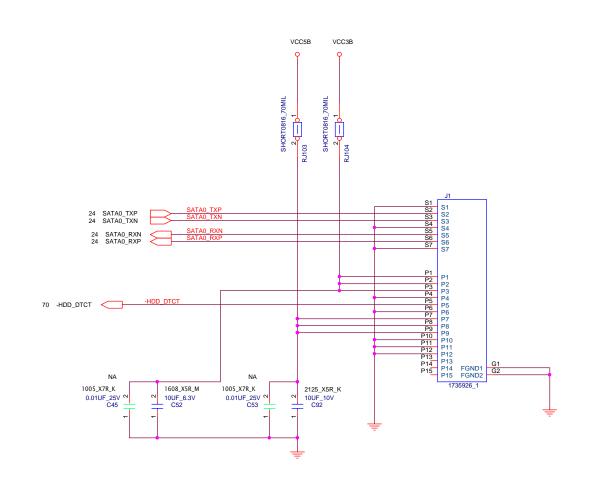


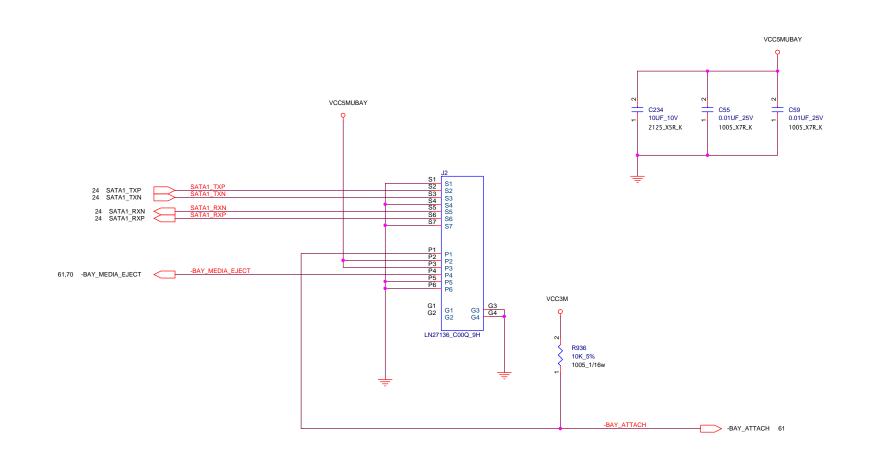


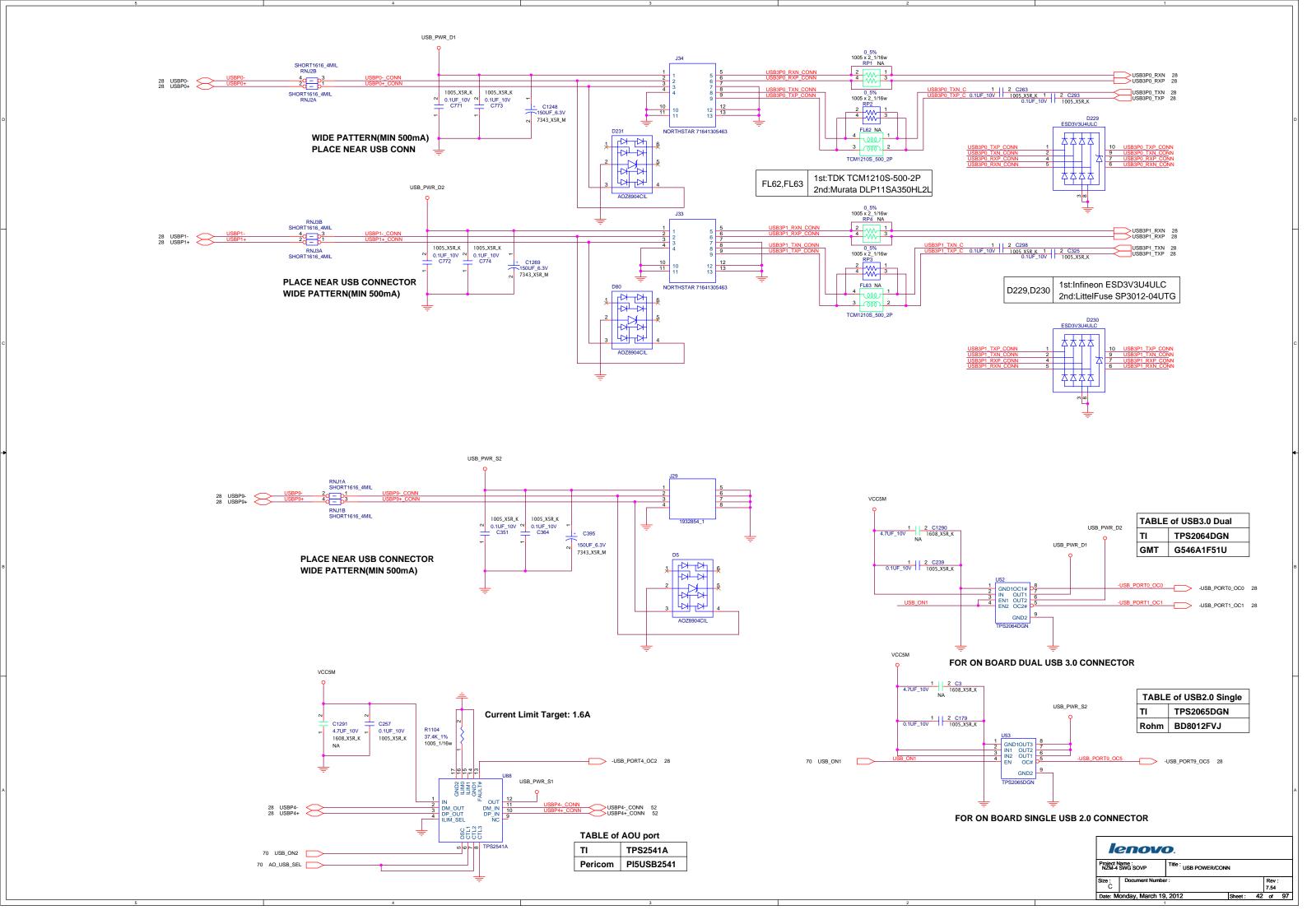


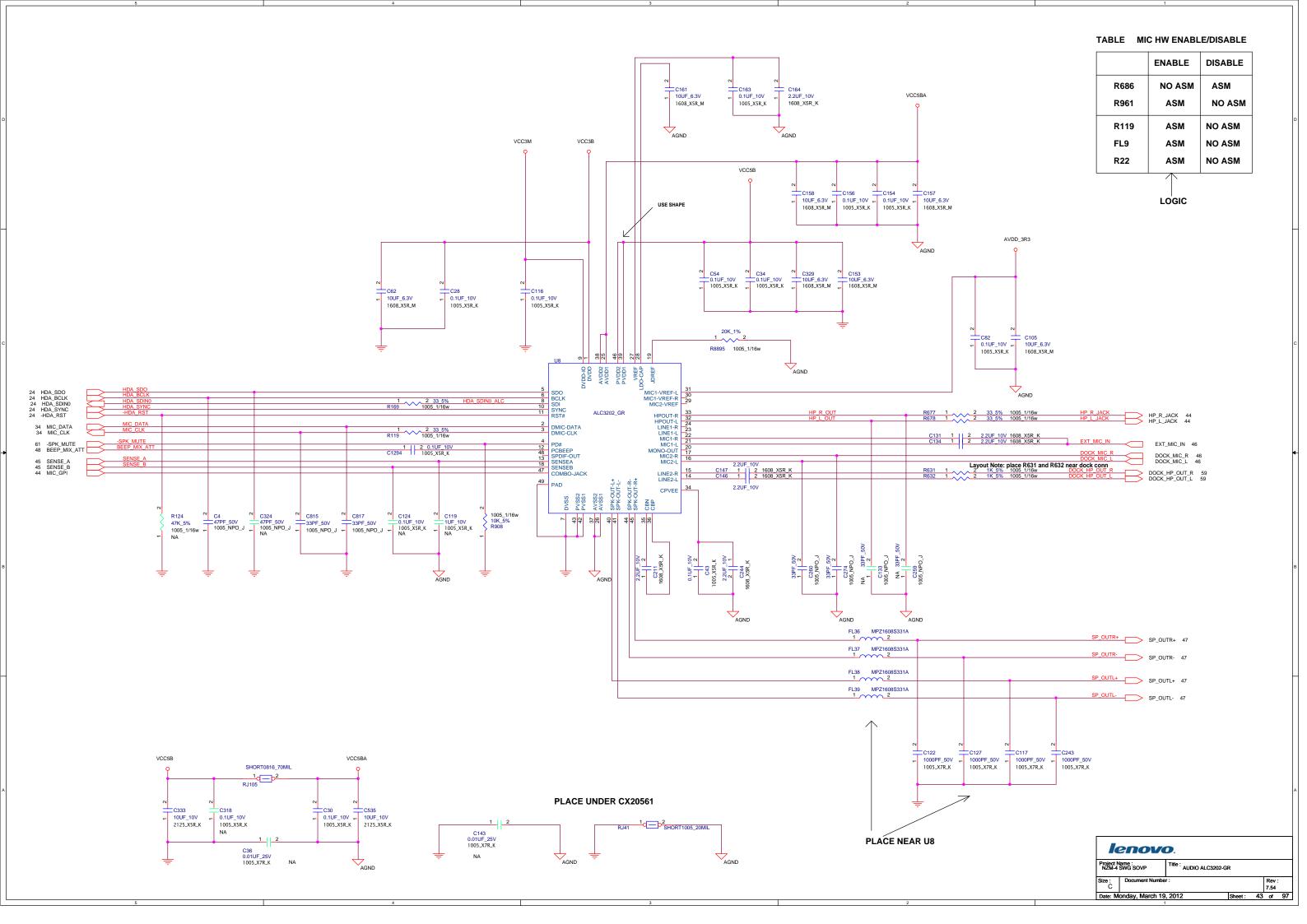


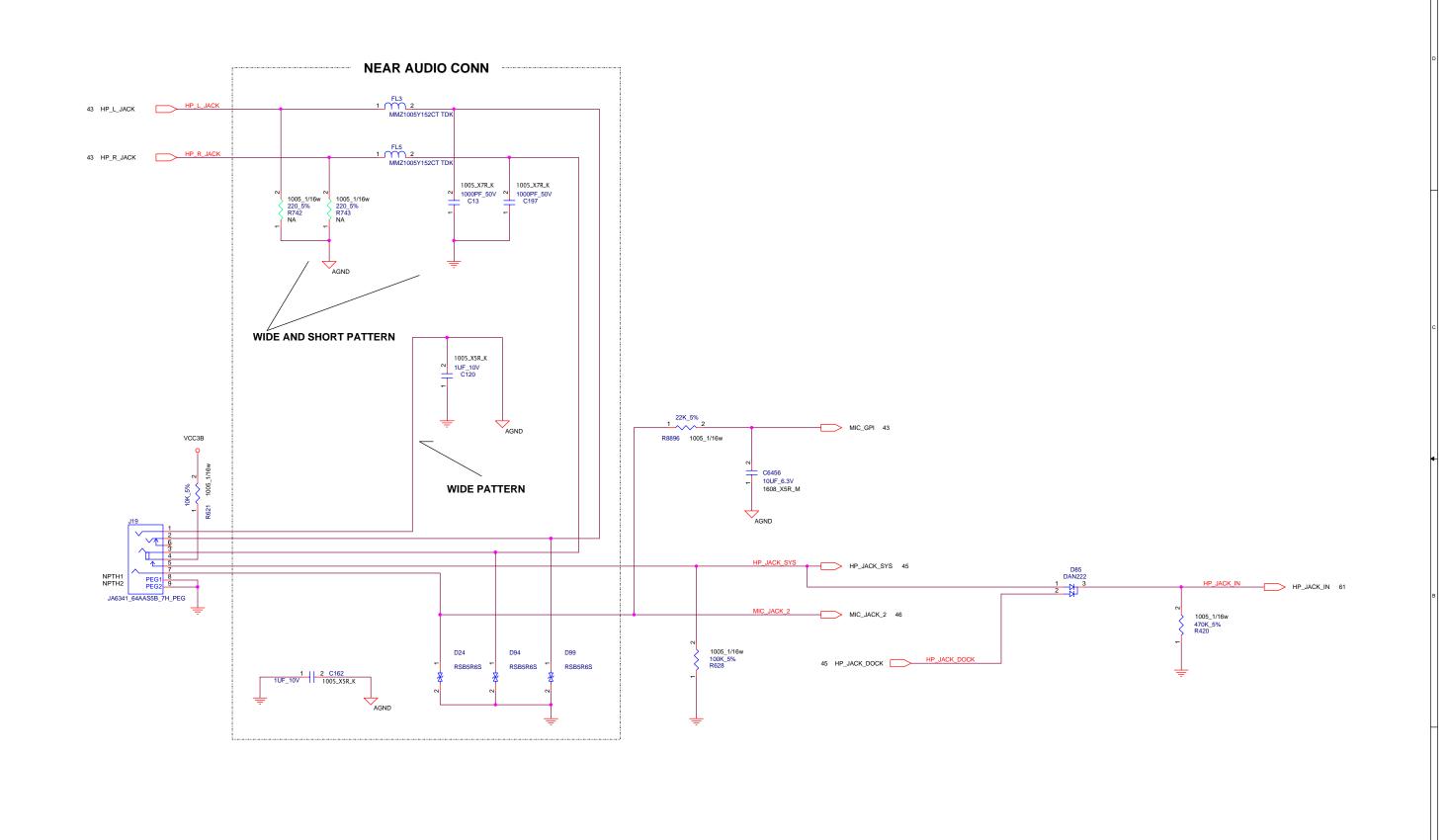




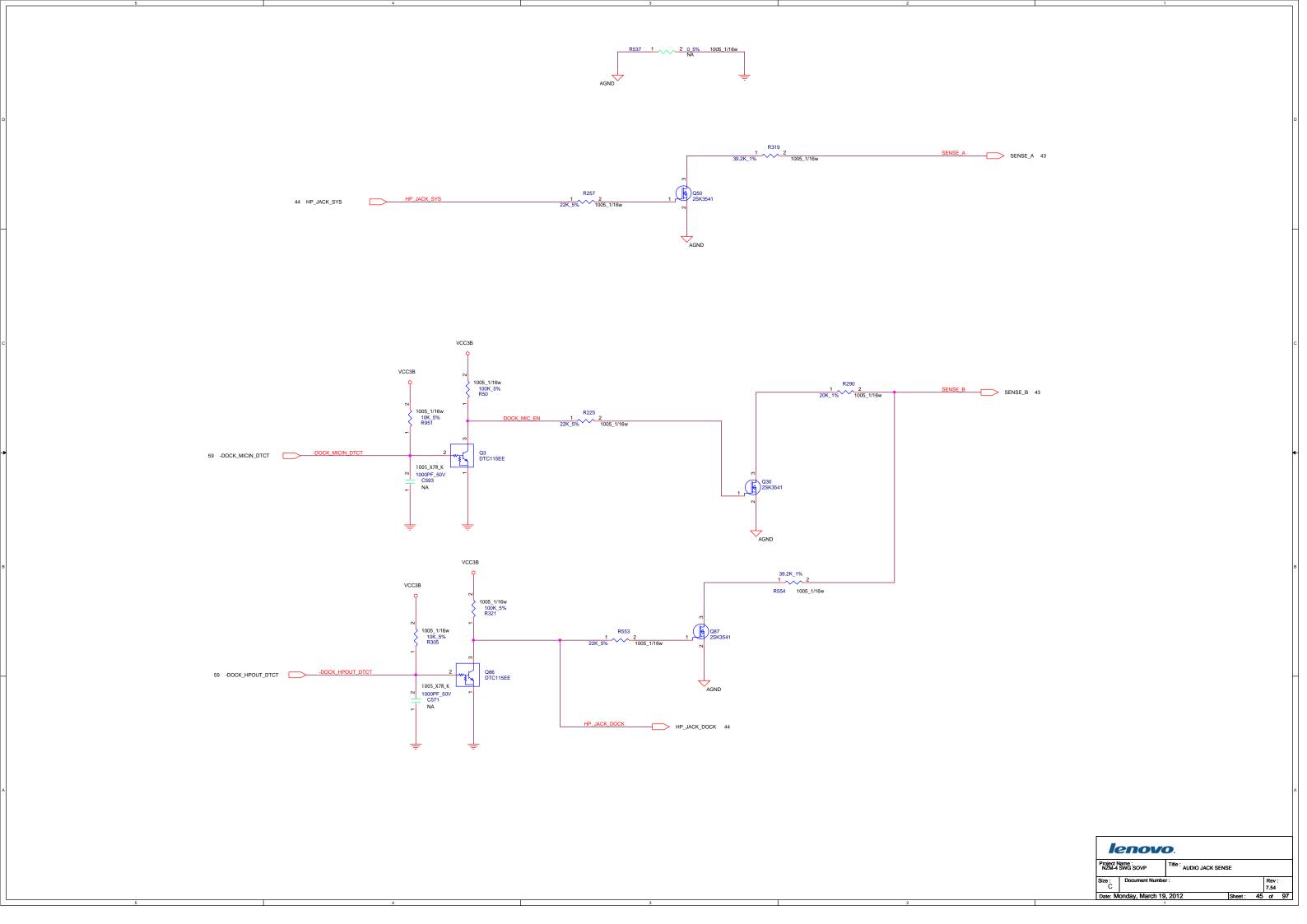


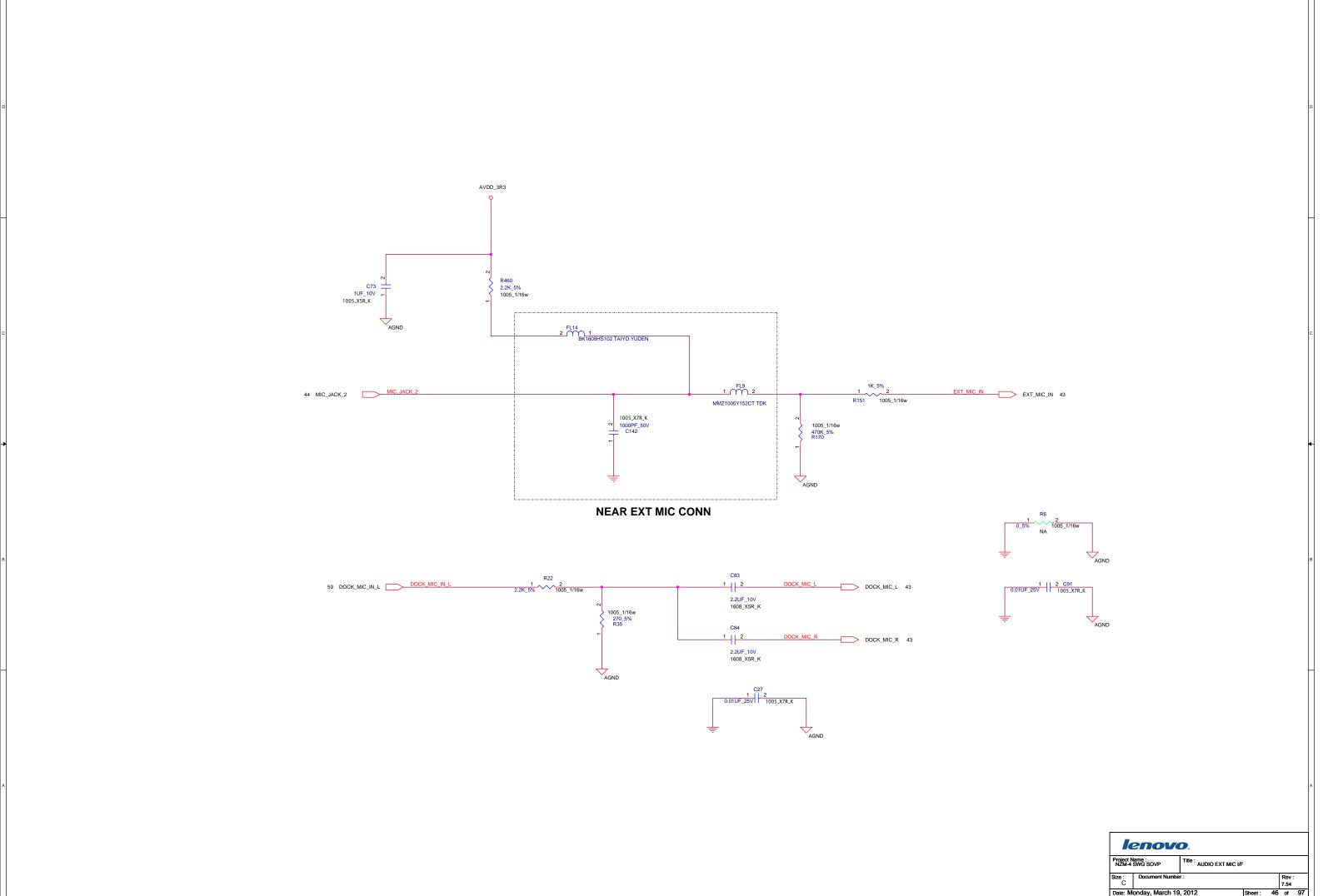


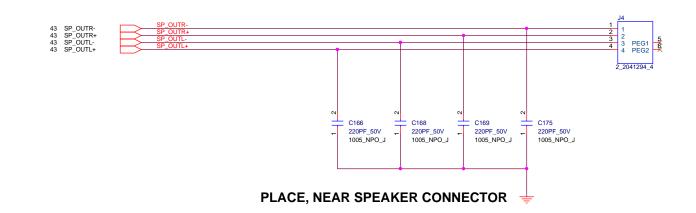


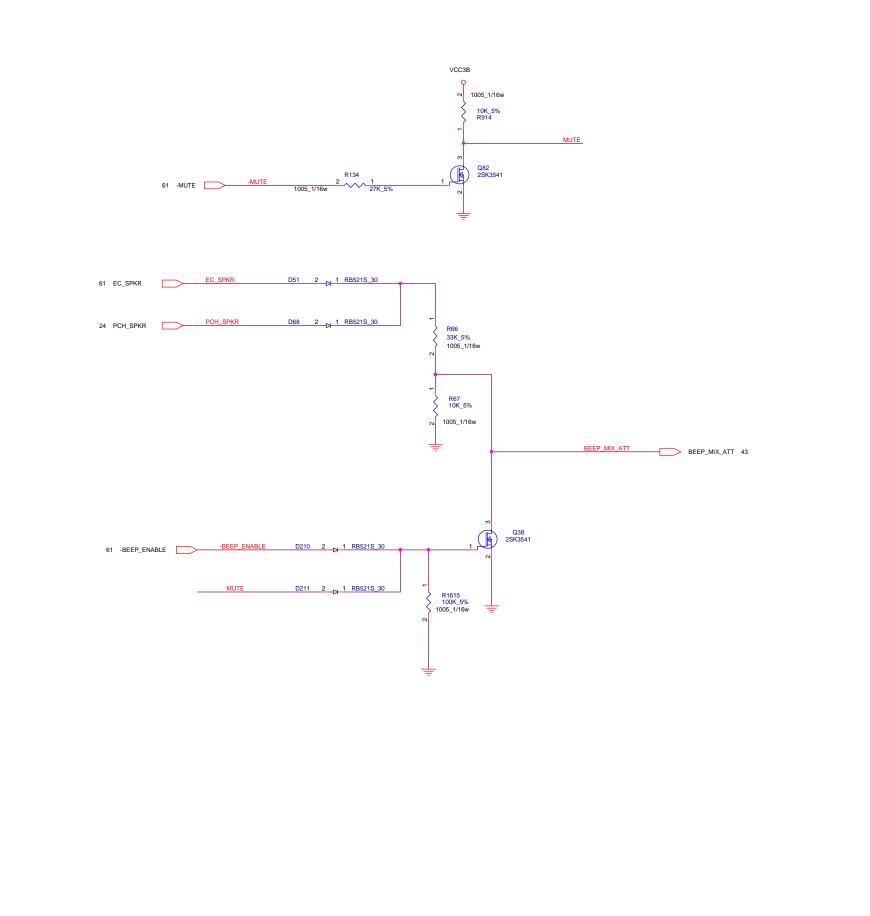


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Pro N	Project Name : NZM-4 SWG SOVP		Title: AUDIO CONN				
Size	: C	Document Numbe	r:			Rev : 7.54	
Da	te: M	onday, March 19	, 2012	Sheet :	44	of	97

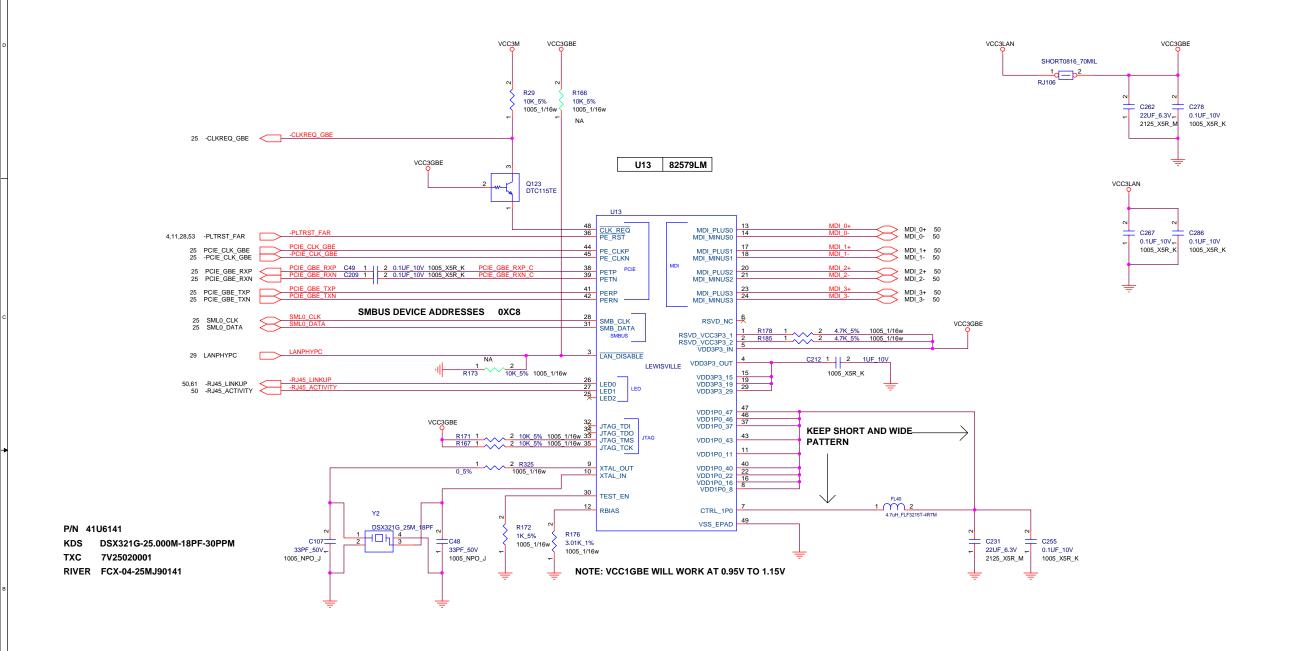


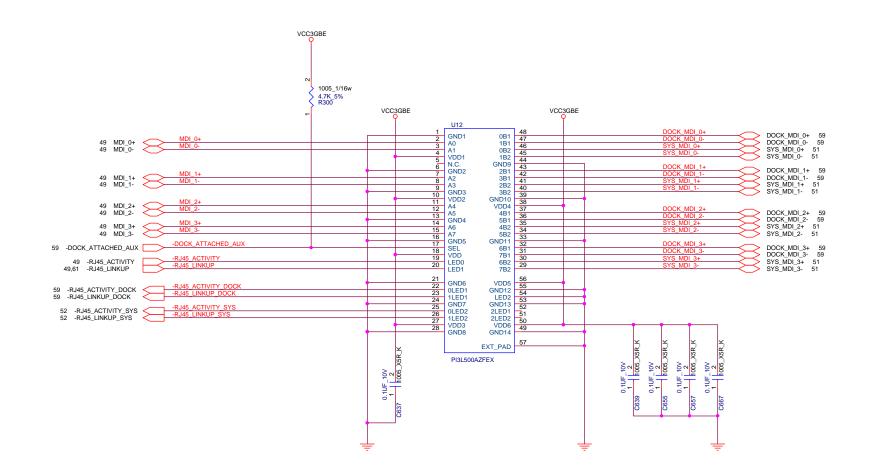


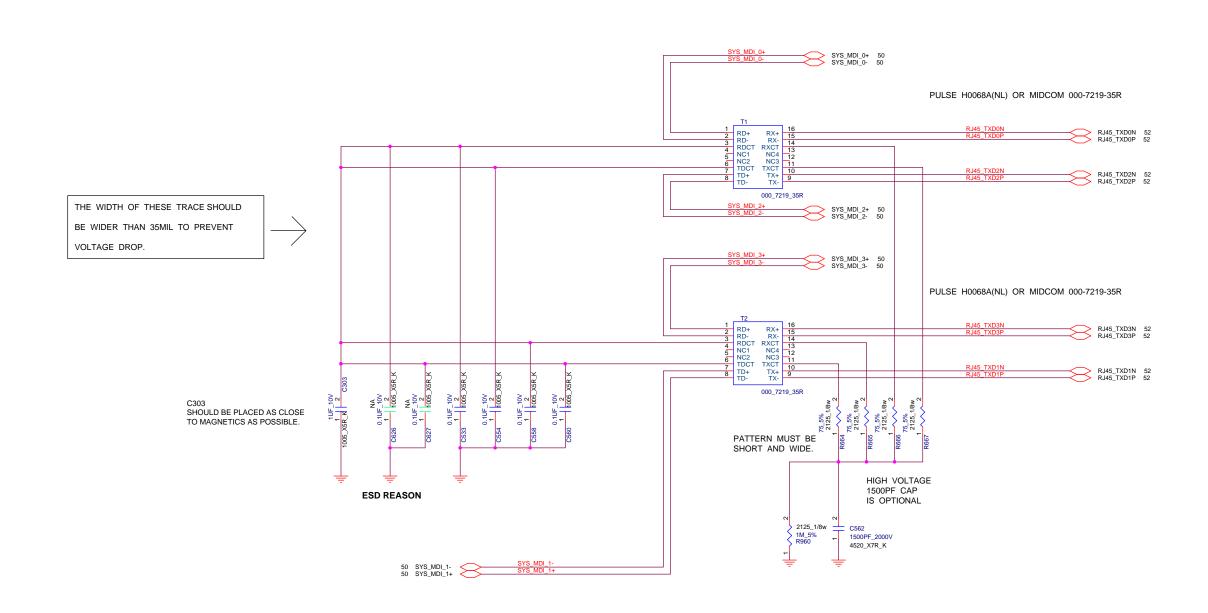




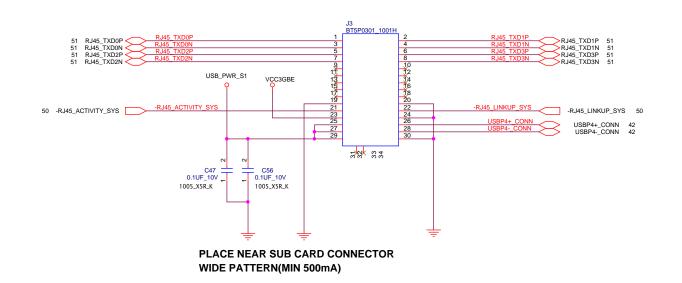
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Date: Monday, March 19, 2012			Sheet:	48	of	97

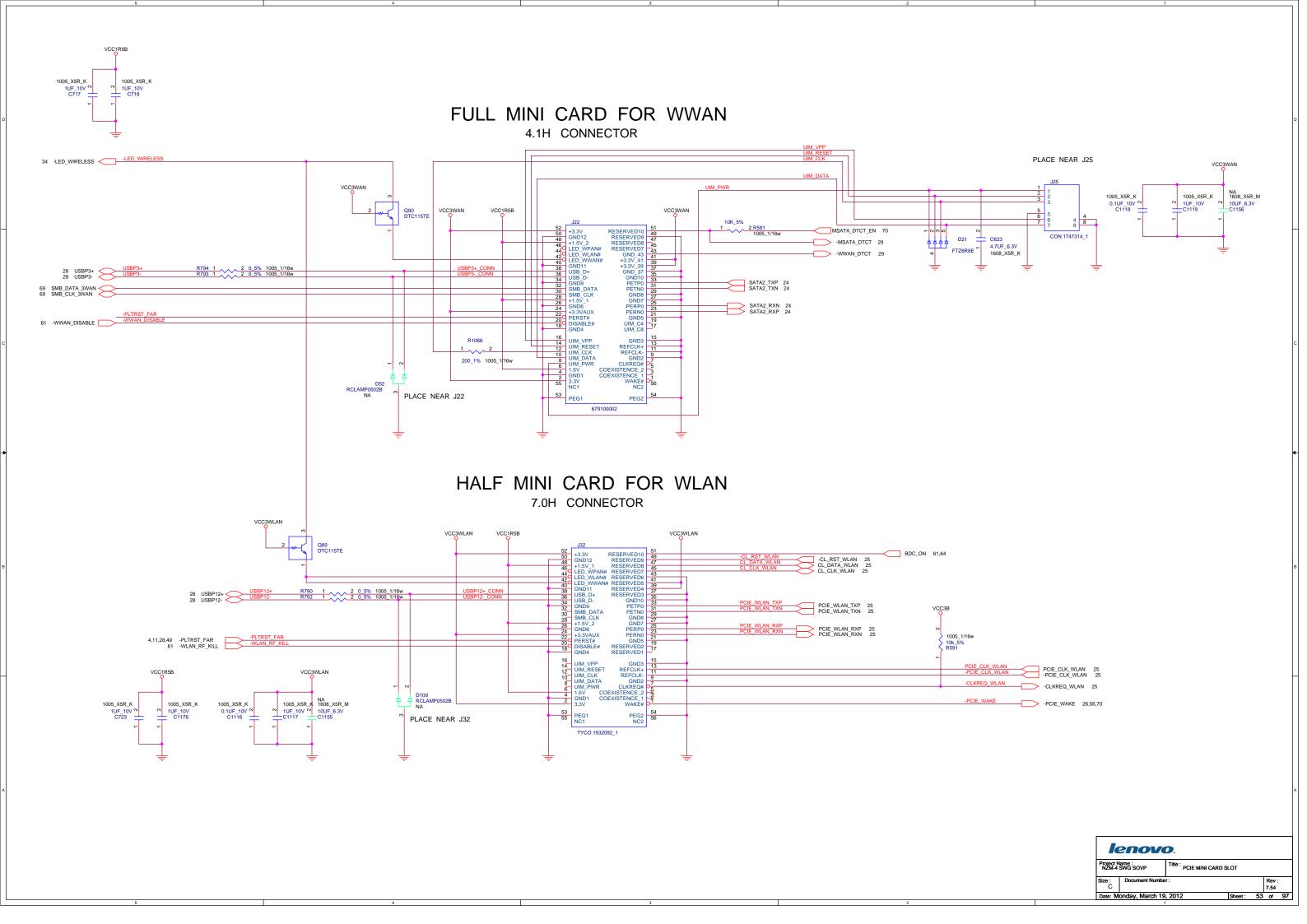


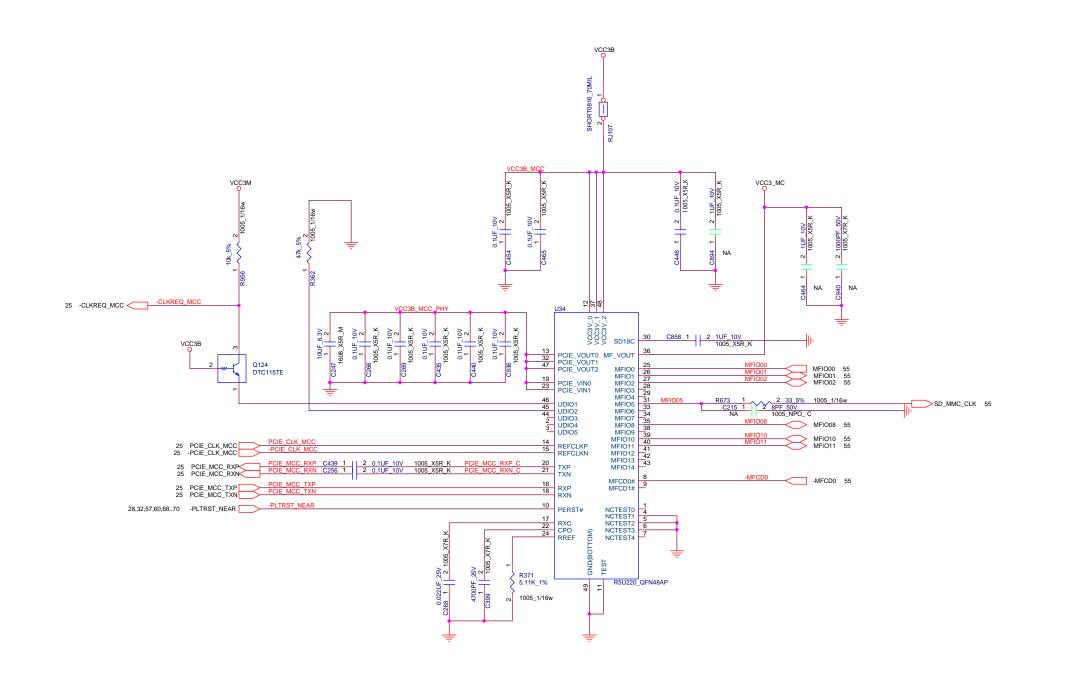




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Project Name : NZM-4 SWG SOVP		Title: GBE MAGNETICS				
Size : C	Document Numbe	r:			Rev : 7.54	
Date: M	onday, March 19	, 2012	Sheet:	51	of	97





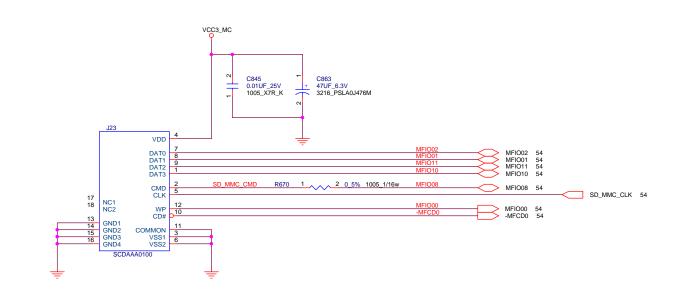


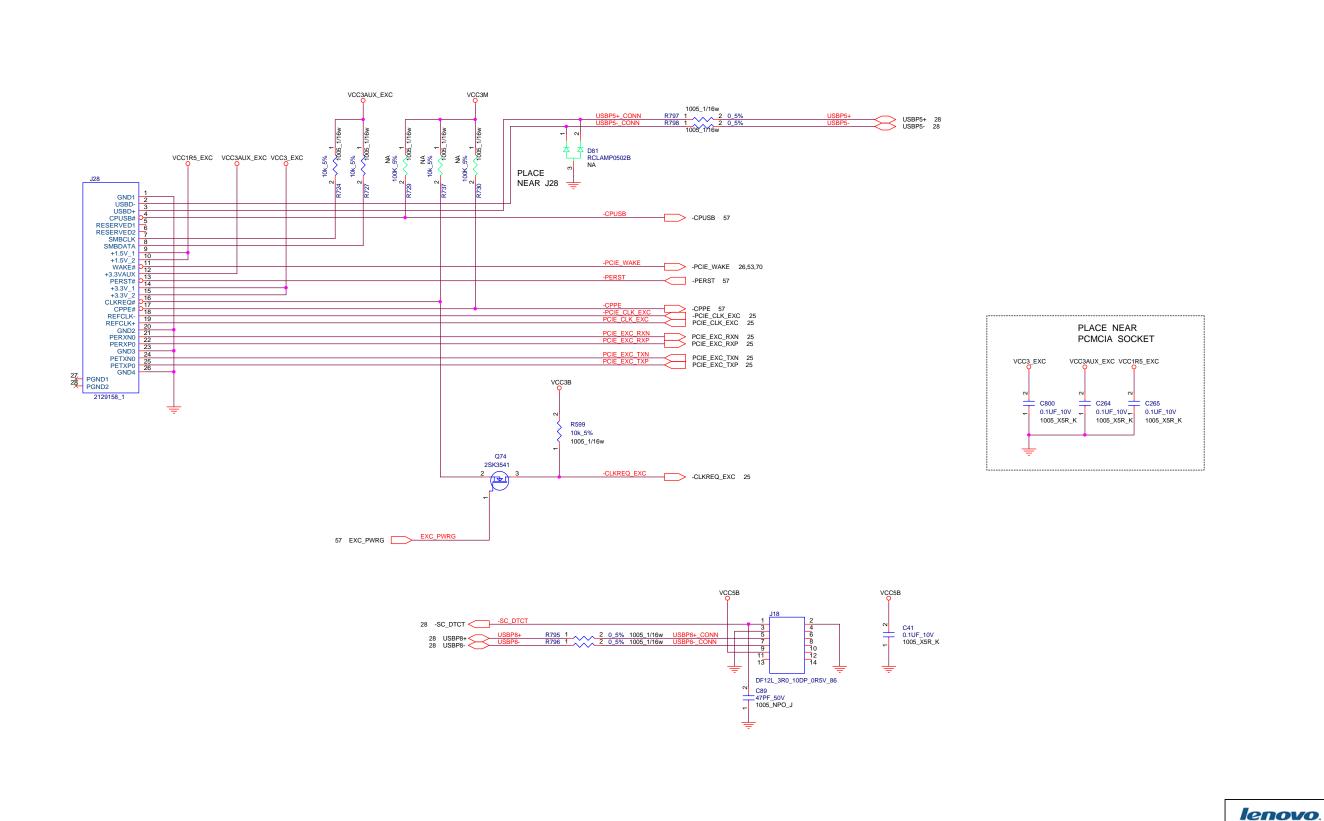
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VP# MSBS	XD_D7
D1	XD_D6
D0 MS_D1	XD_D5
D7)	XD_D4
_D6) (MS_D5) XD_D3
CLK MS_D0	XD_D2
	XD_D1
_D5) (MS_D4) XD_D0
CMD MS_D2	XD_WP#
_D4) (MS_D6) XD_WE#
D3 MS_D3	XD_ALE
.D2	XD_CLE
	XD_CE#
(MS_D7) XD_RE#
MS_CLF	XD_R/B#
CD#	XDCD0#
MSINS#	XDCD1#
	_D1

UDIO Pin Assignment Table	
UDIO	Default
01	CLKREQ#
02	SCL/SROM_EN
03	SDA
•	

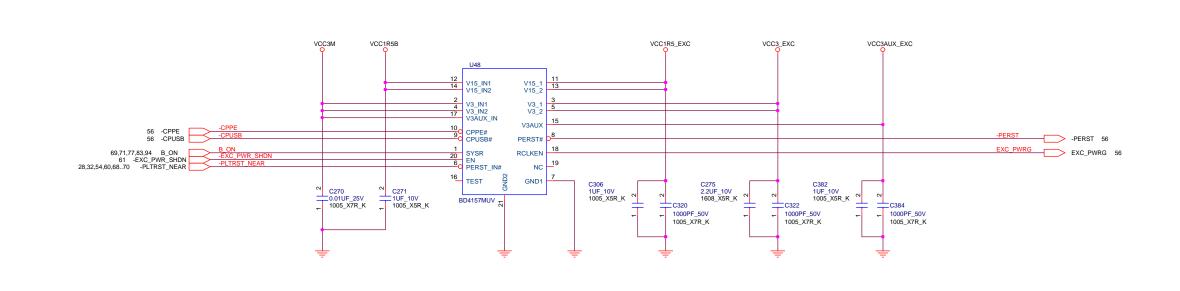
MFCDxN	Detection	Table
MFC	DxN	Card Type
1	0	Cald Type
Н	Н	(No Card)
Н	L	SD Card/MMC
L	Н	MemoryStick
		XD Card





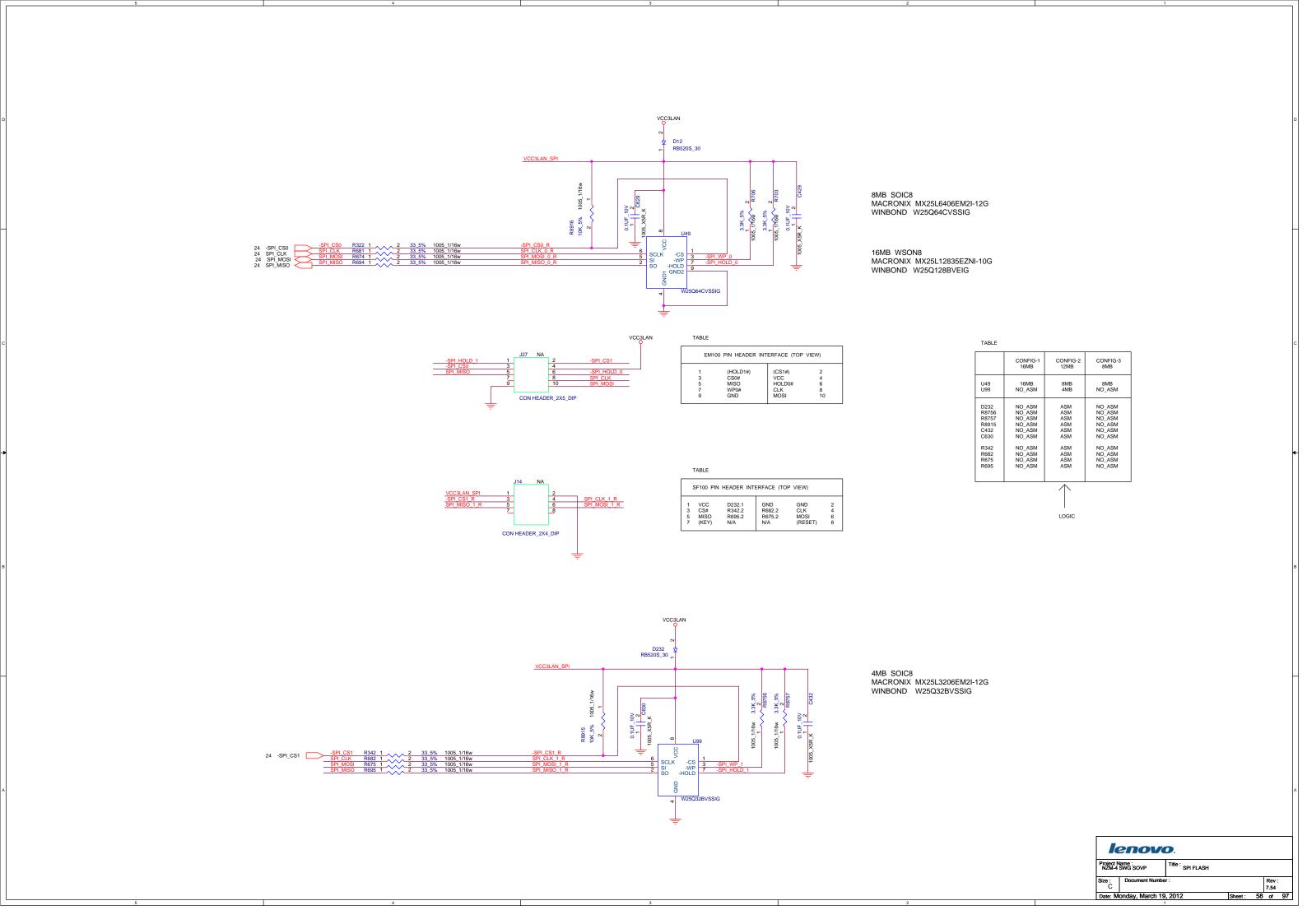
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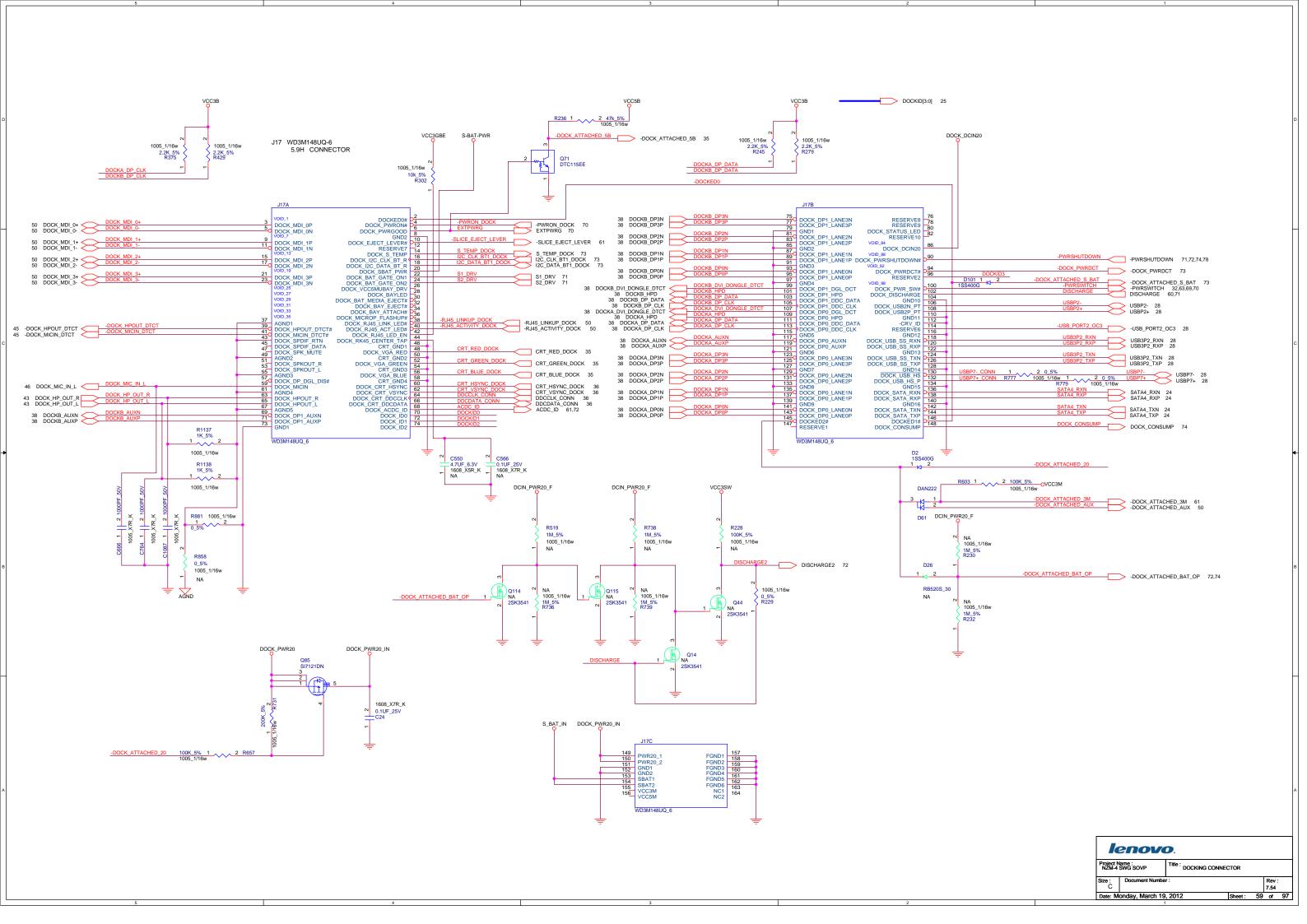
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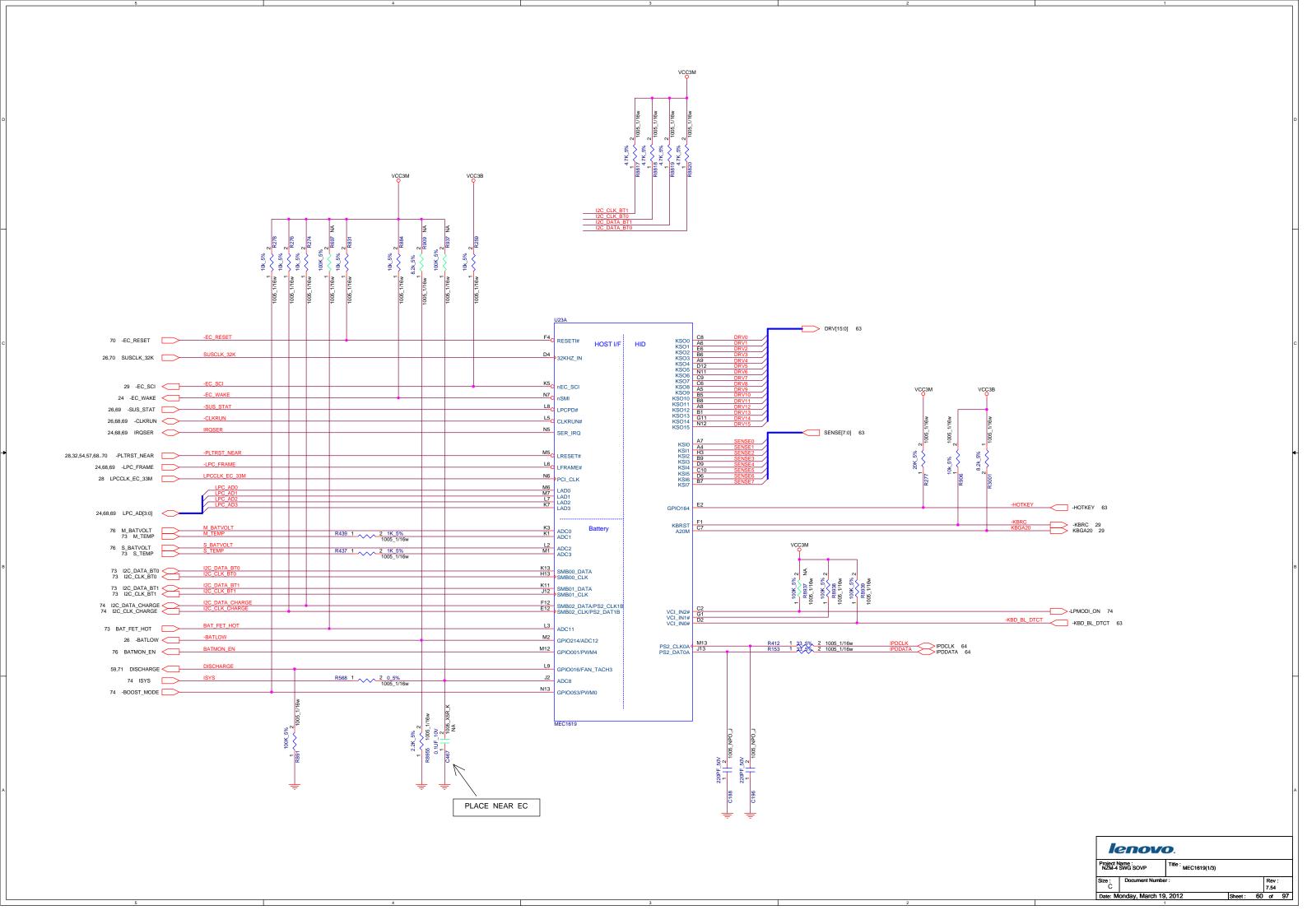


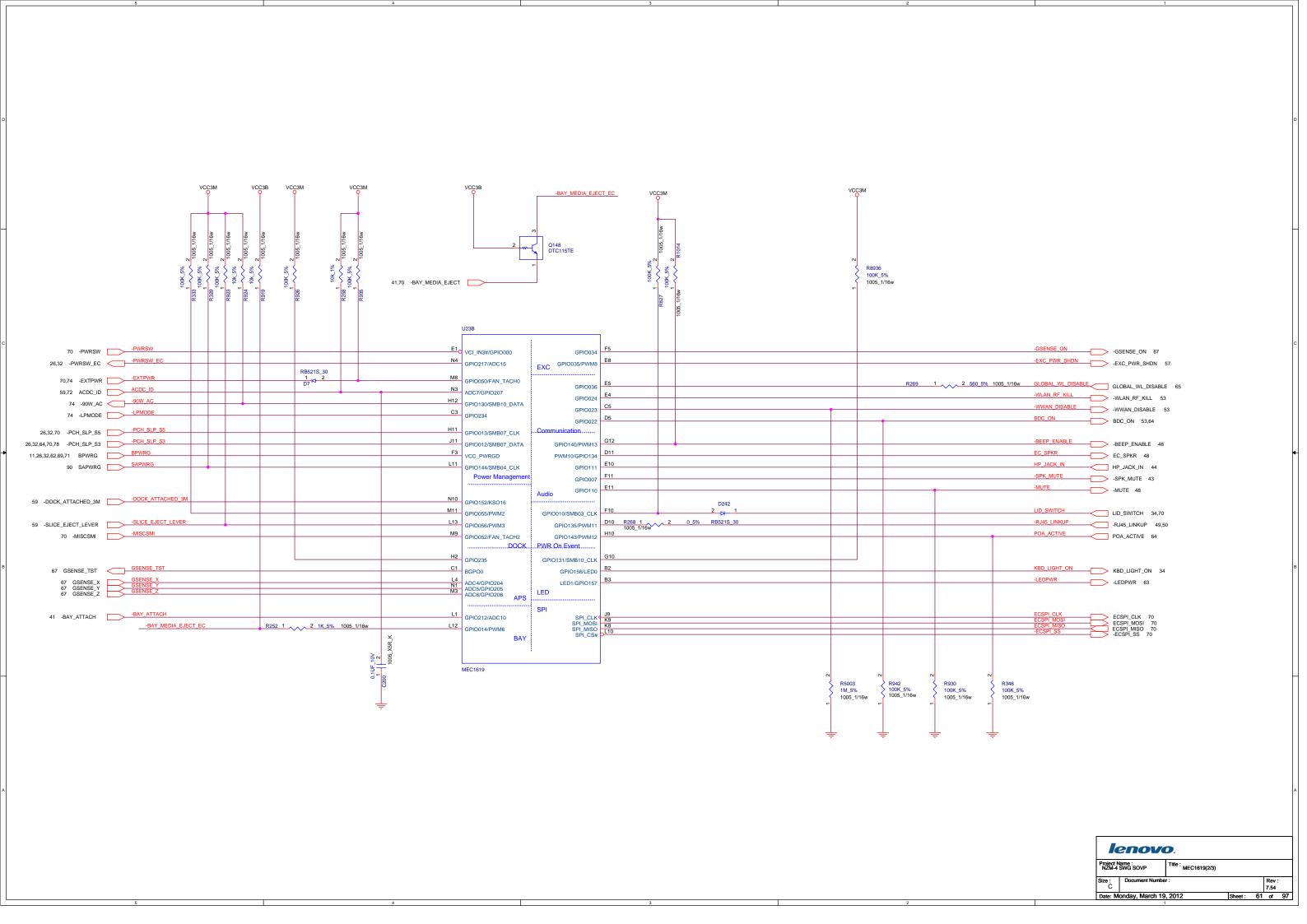
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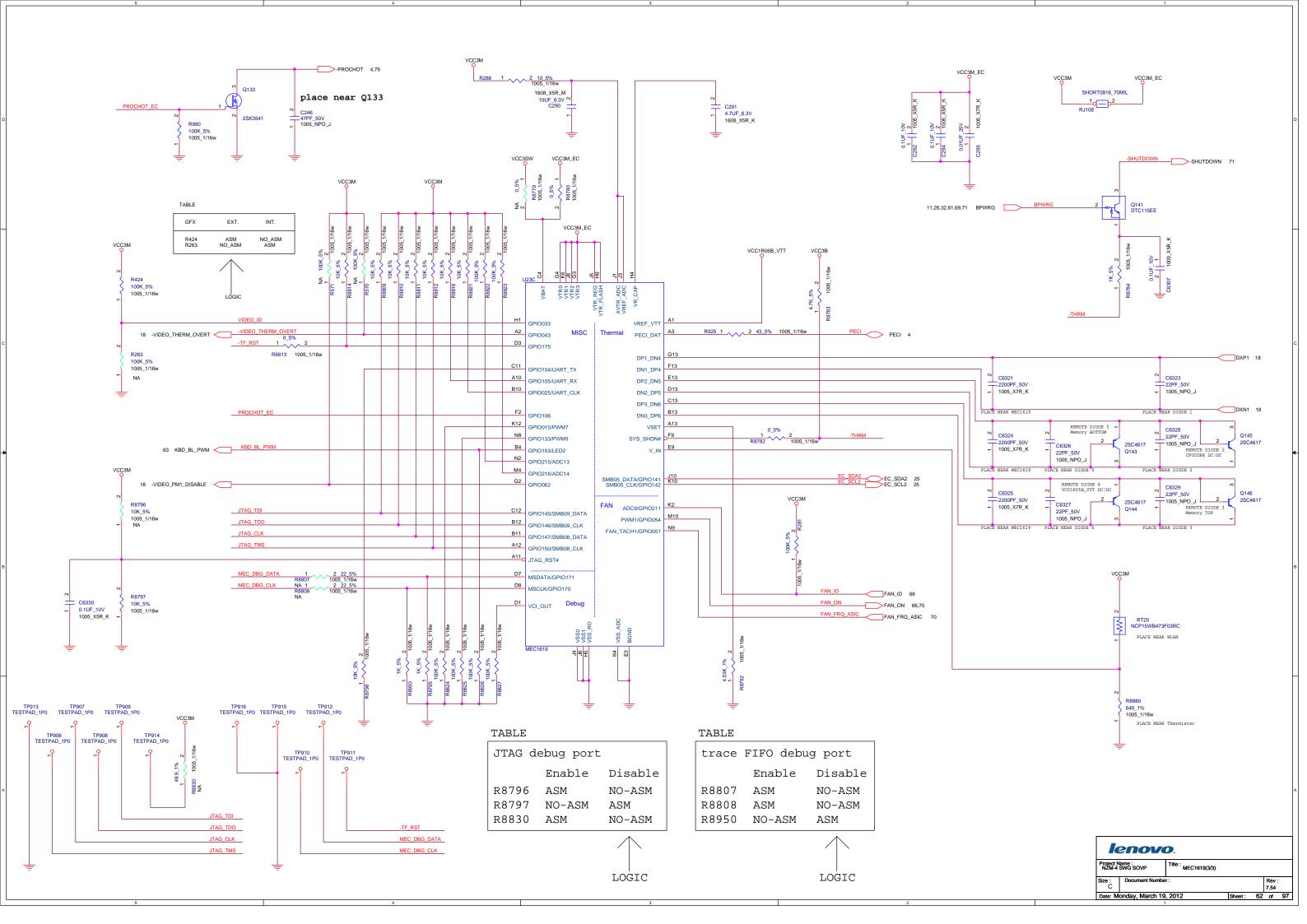
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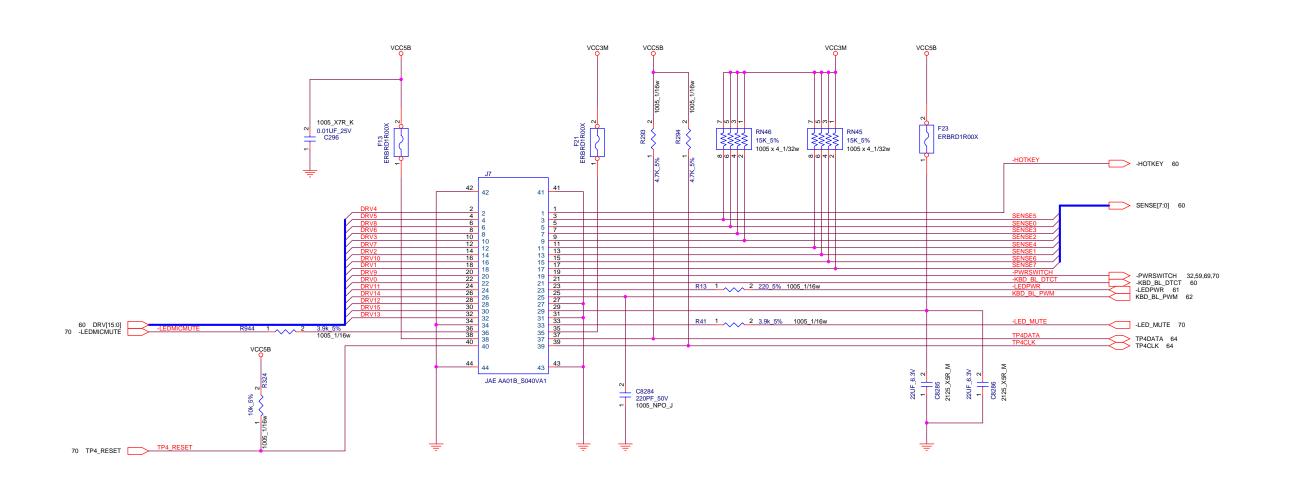


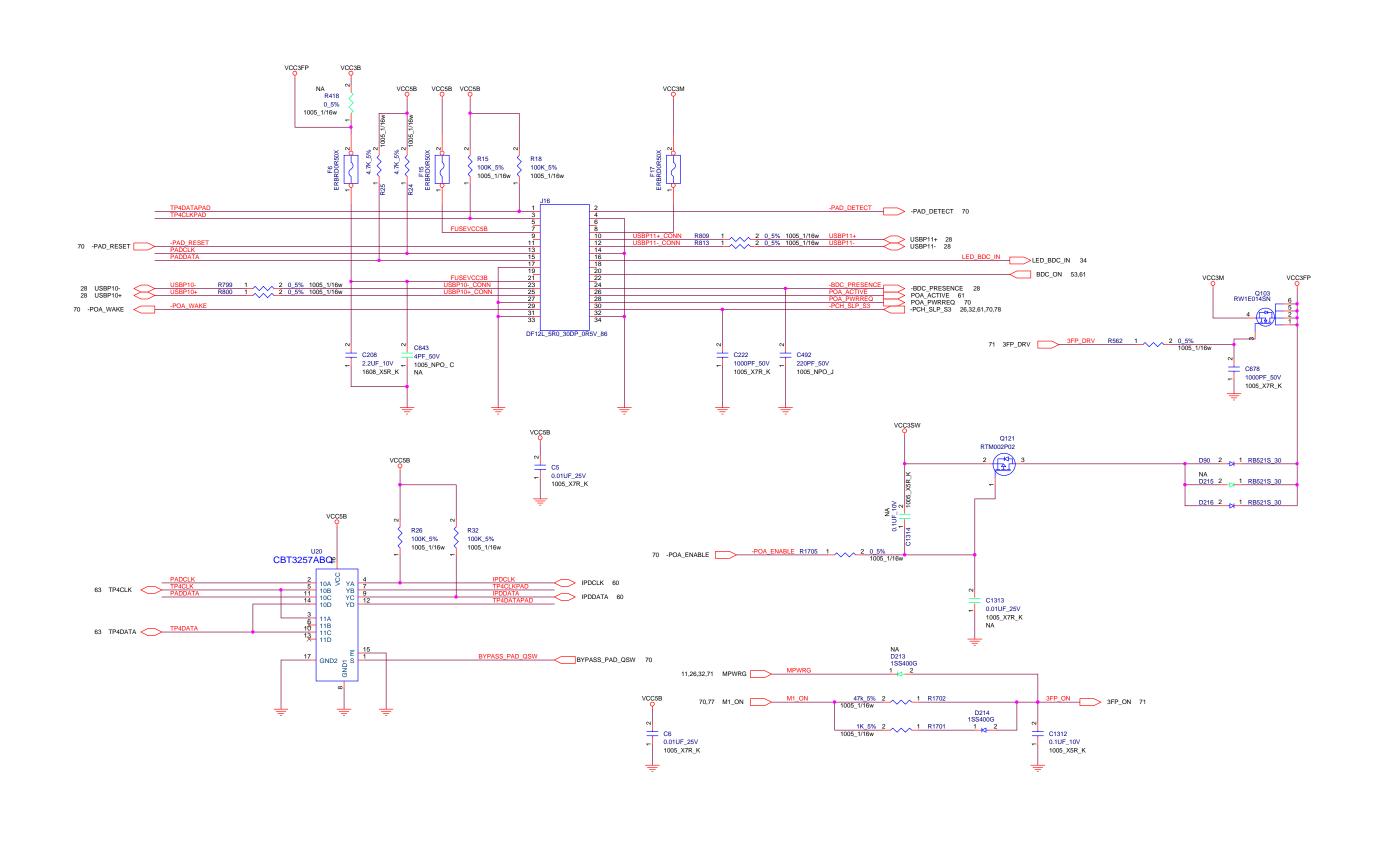




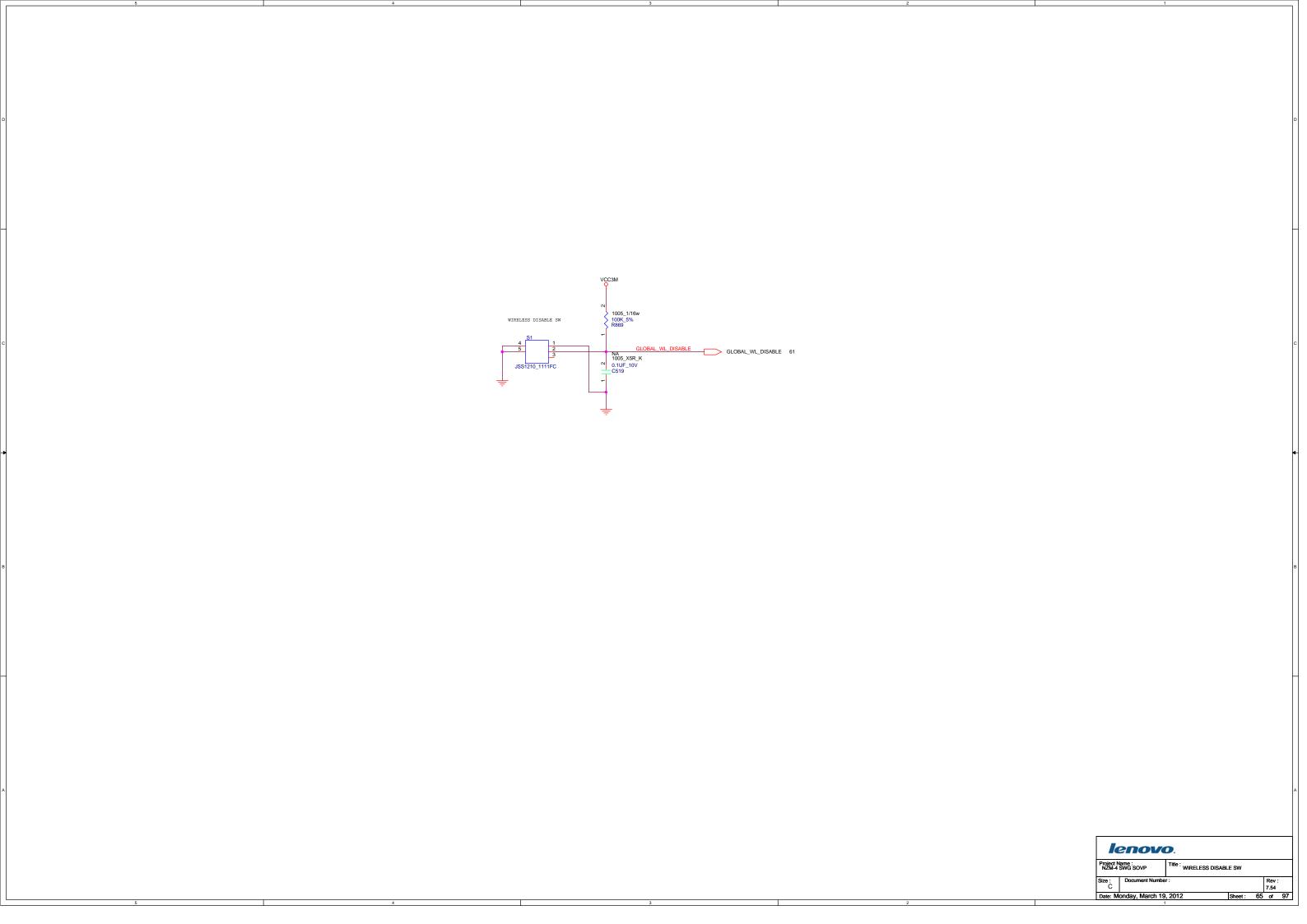


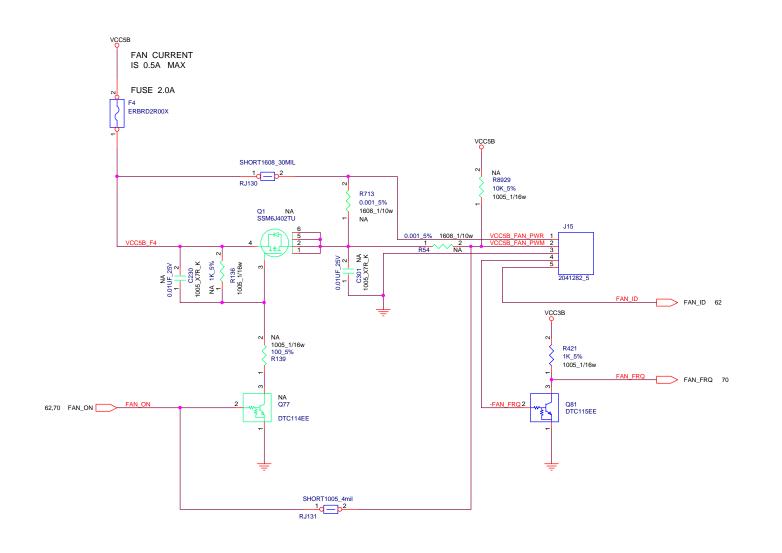


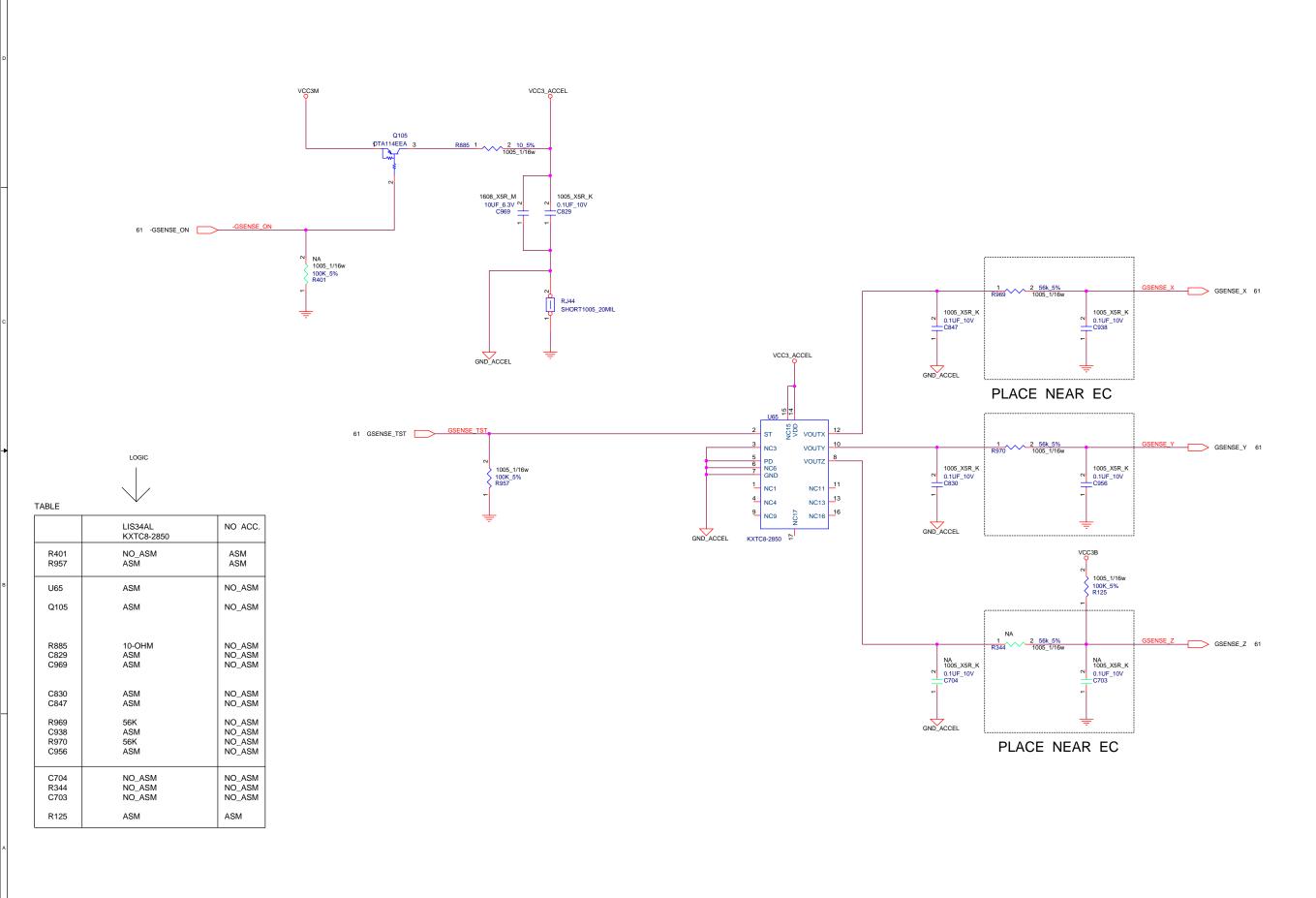




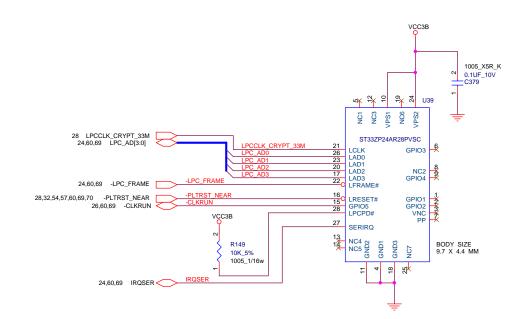
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Project N NZM-4	lame : SWG SOVP	Title: TOUCH PAD CON	NECTOR			
Size : C	Document Numbe	r:			Rev : 7.54	
Date: M	onday, March 19	, 2012	Sheet:	64	of	97
	1					







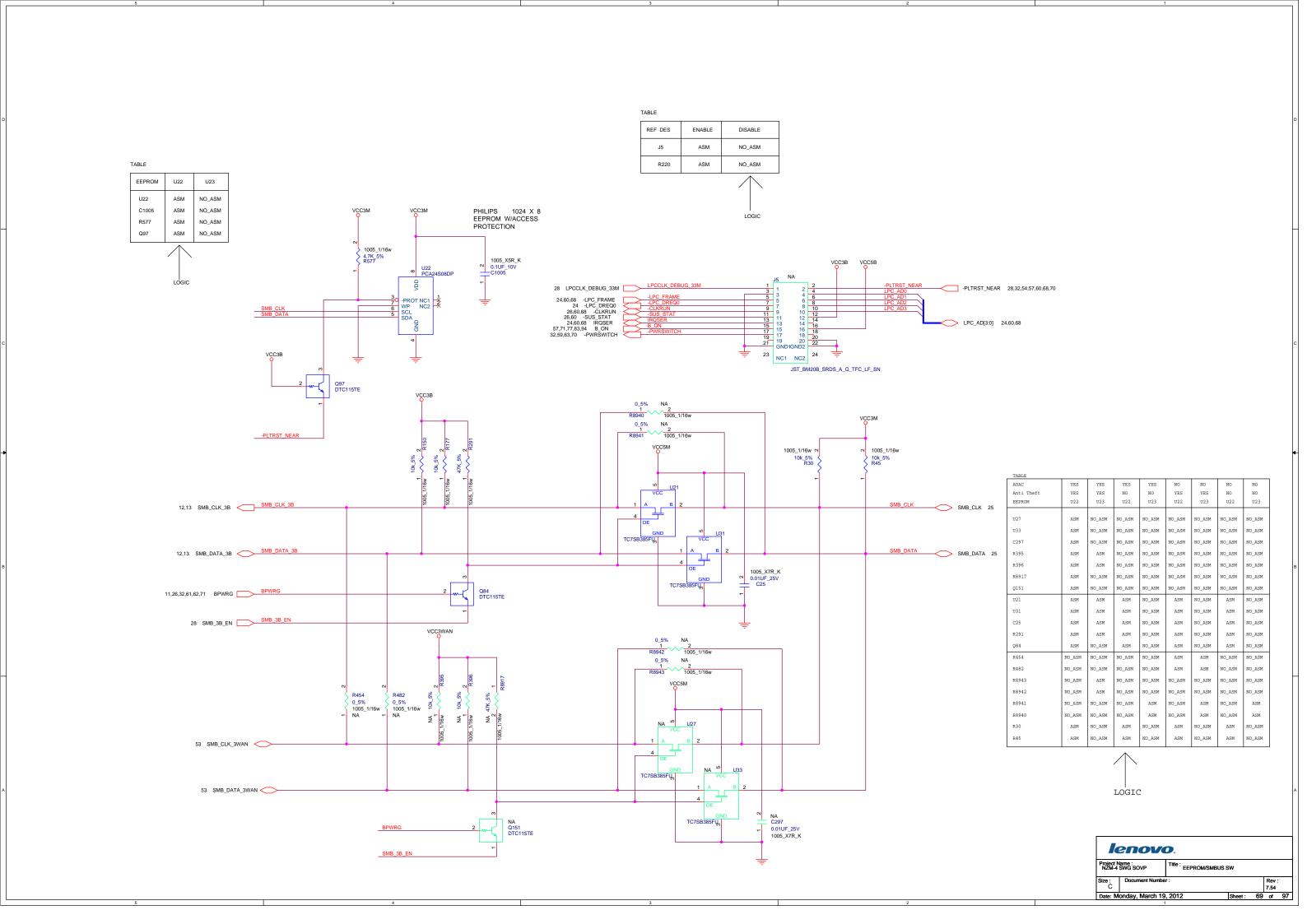
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Project N NZM-4	lame : SWG SOVP	Title: G-SENSOR				
Size : C	Document Numbe	r:			Rev : 7.54	
Date: M	onday, March 19	, 2012	Sheet :	67	of	97

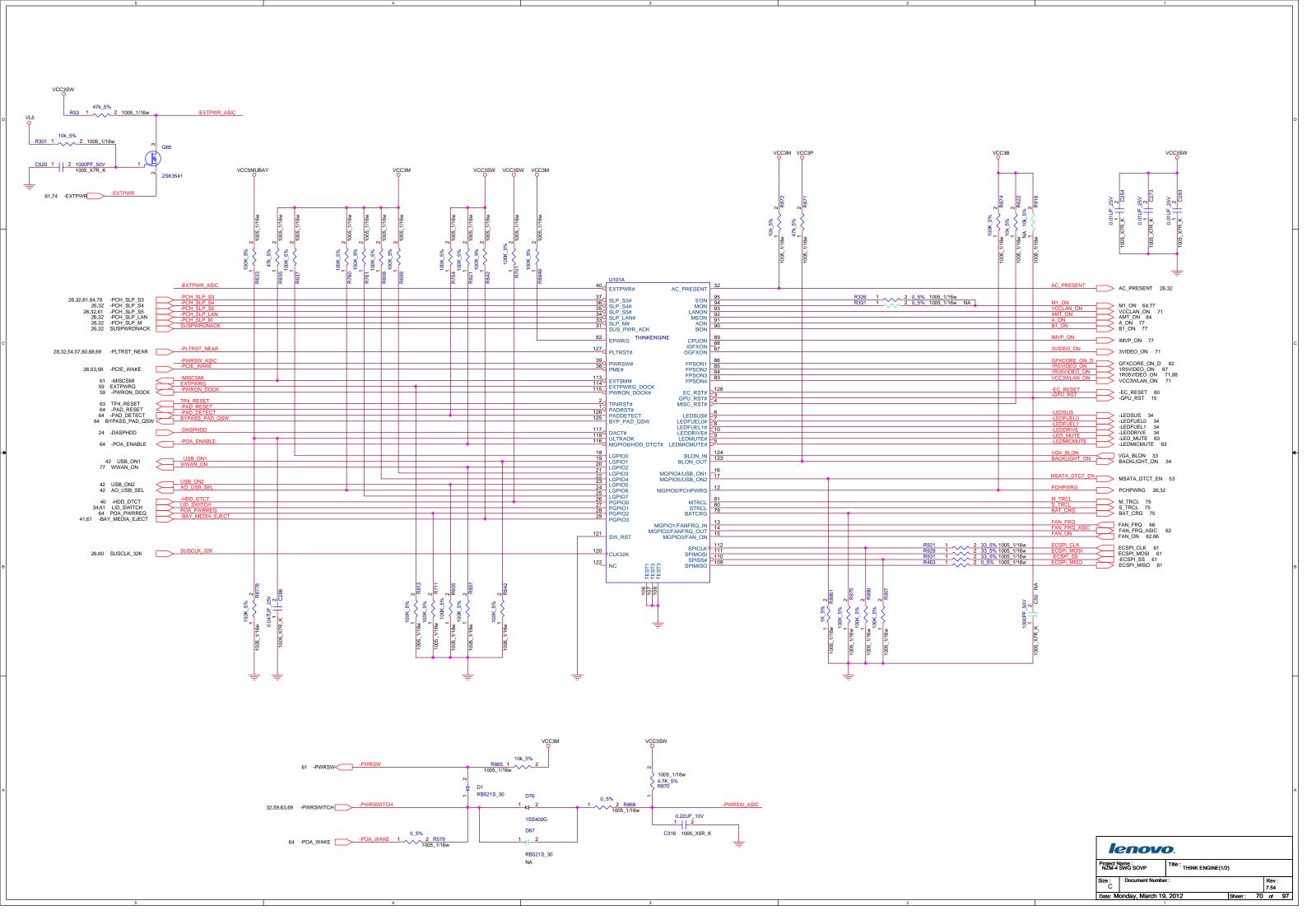


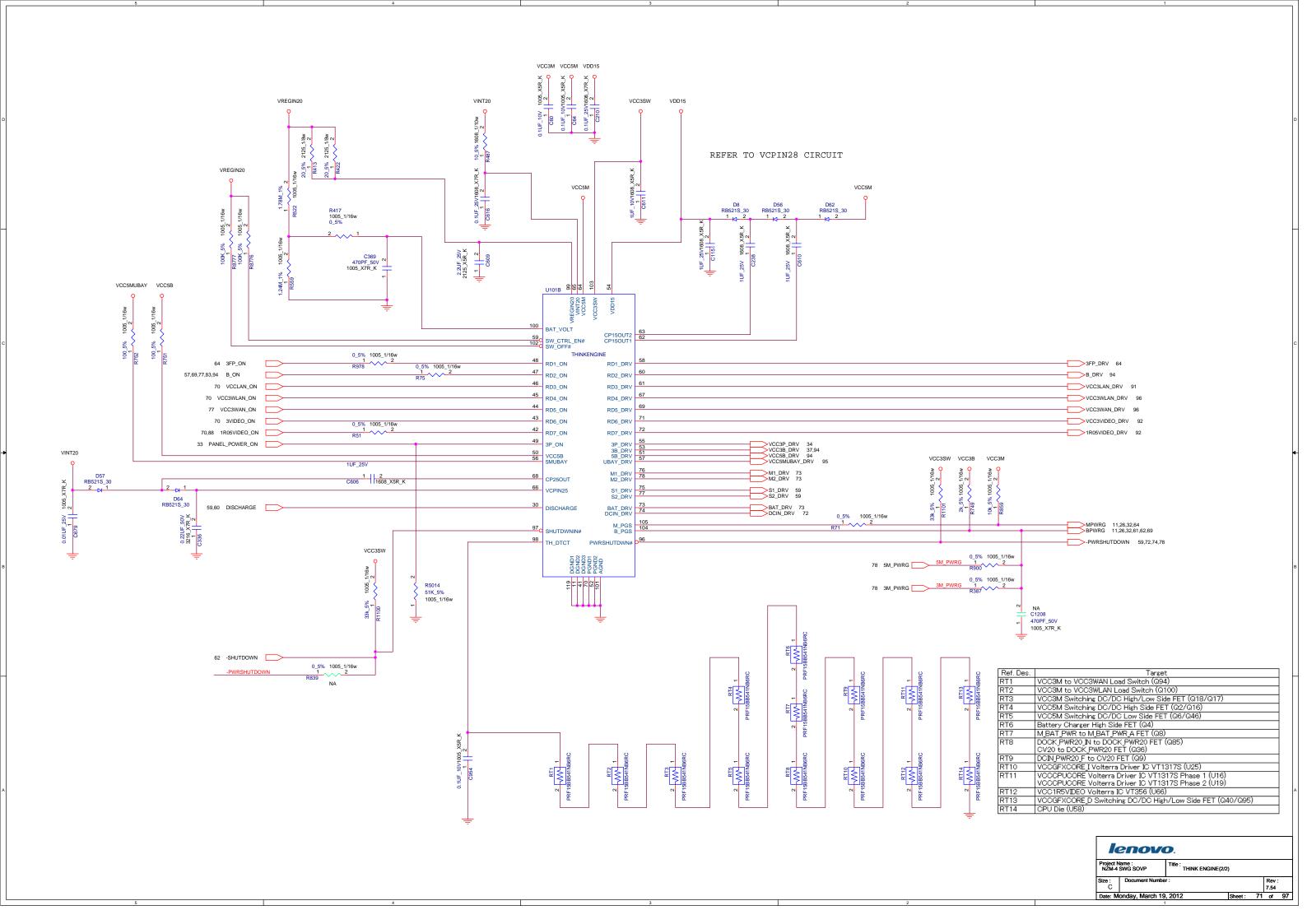
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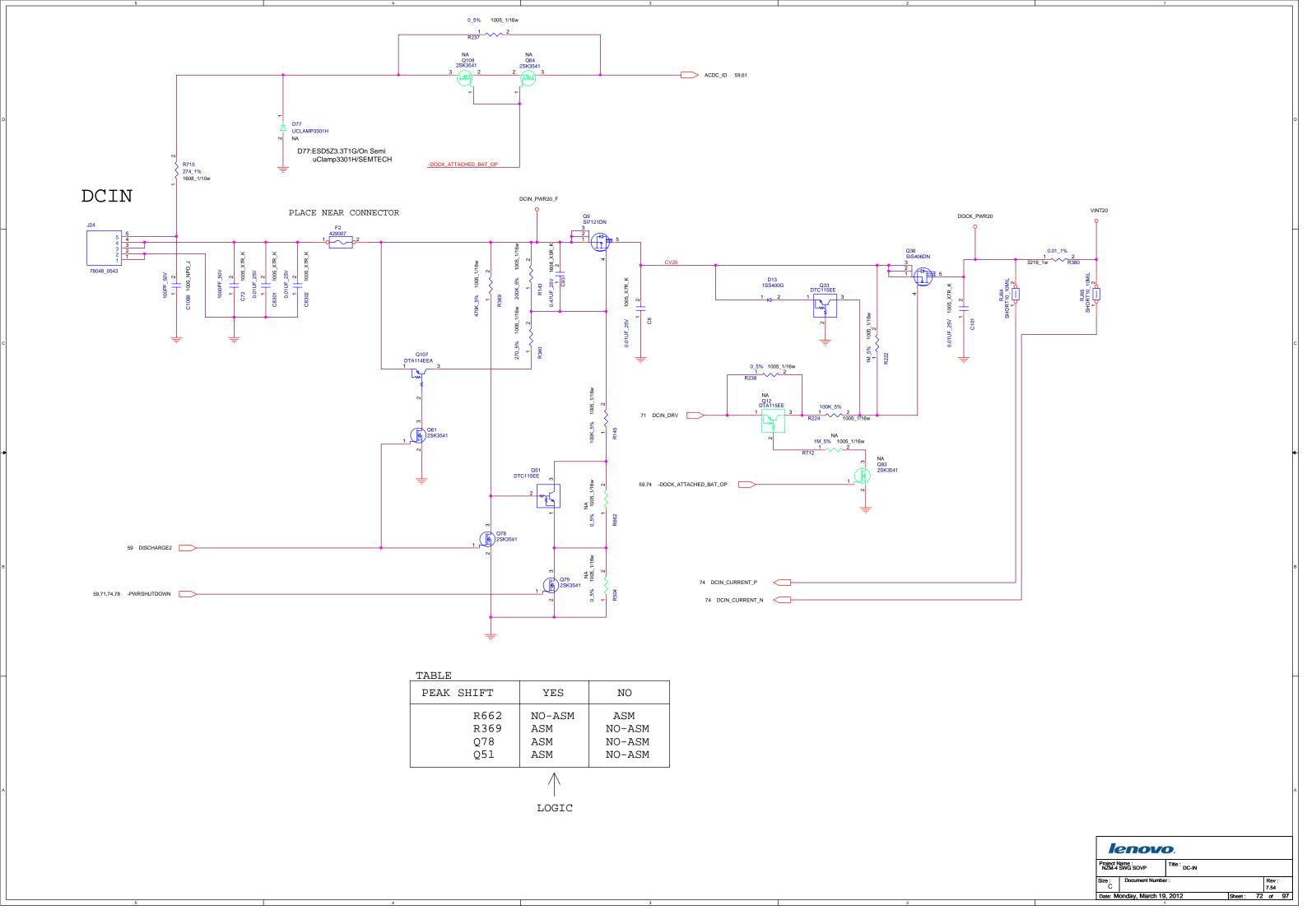
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FVT	ST33ZP24AR28PVOG	1.2.A.C
SW SIT-1, SIT, and SIT-R1	ST33ZP24AR28PVRC	1.2.C.0
SIT-R2 and SVT	ST33ZP24AR28PVSC Rev.I	1.2.D.0
SOVP	ST33ZP24AR28PVSC Rev.J	(1.2.D.0) 1.2.D.8 by FW Update
MP	ST33ZP24AR28PVSH	1.2.D.8

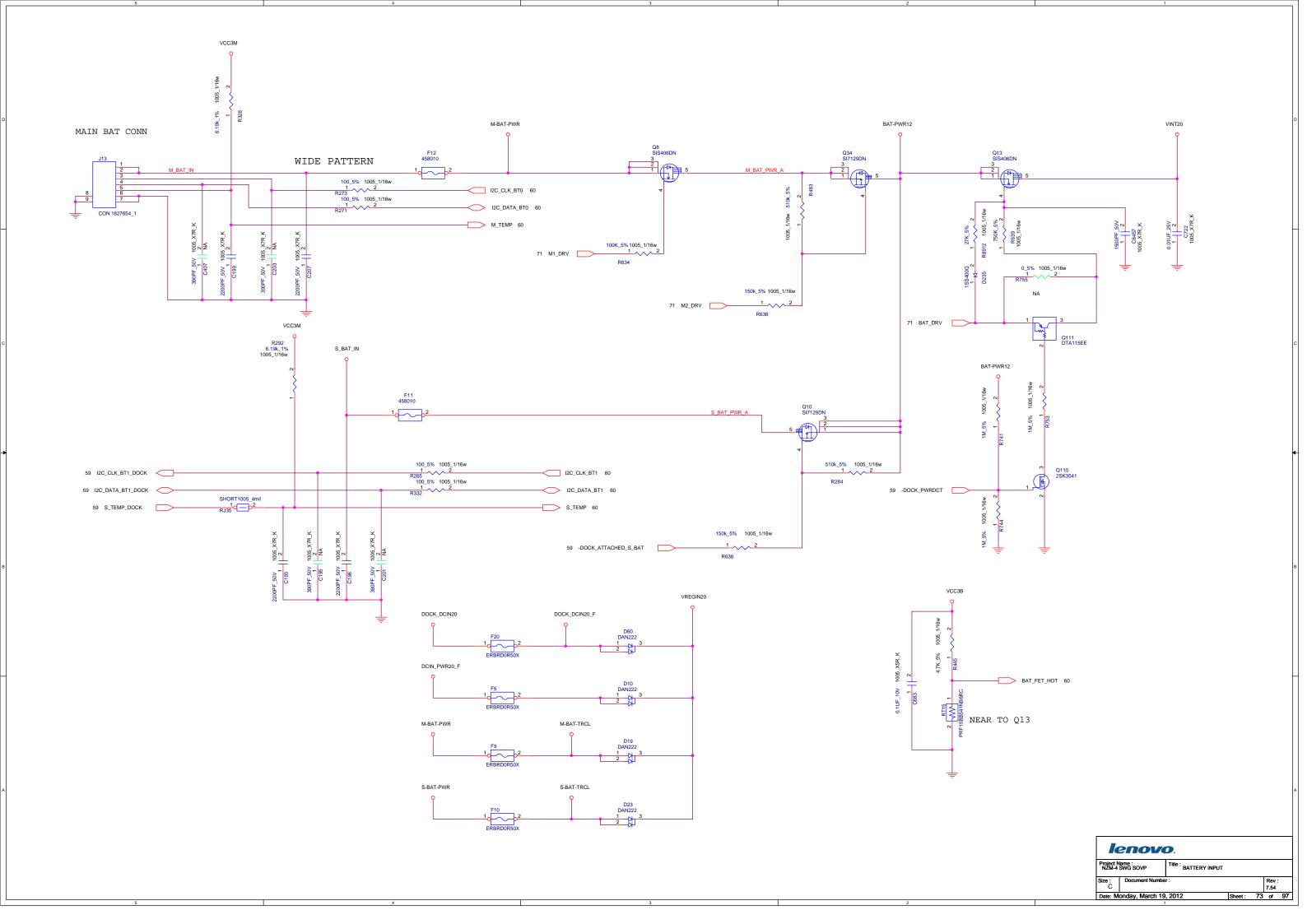
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Project N NZM-4	lame : SWG SOVP	Title : TPM				
Size : C	Document Nur	nber:			Rev : 7.54	
Date: M	onday, March	19, 2012	Sheet:	68	of	97

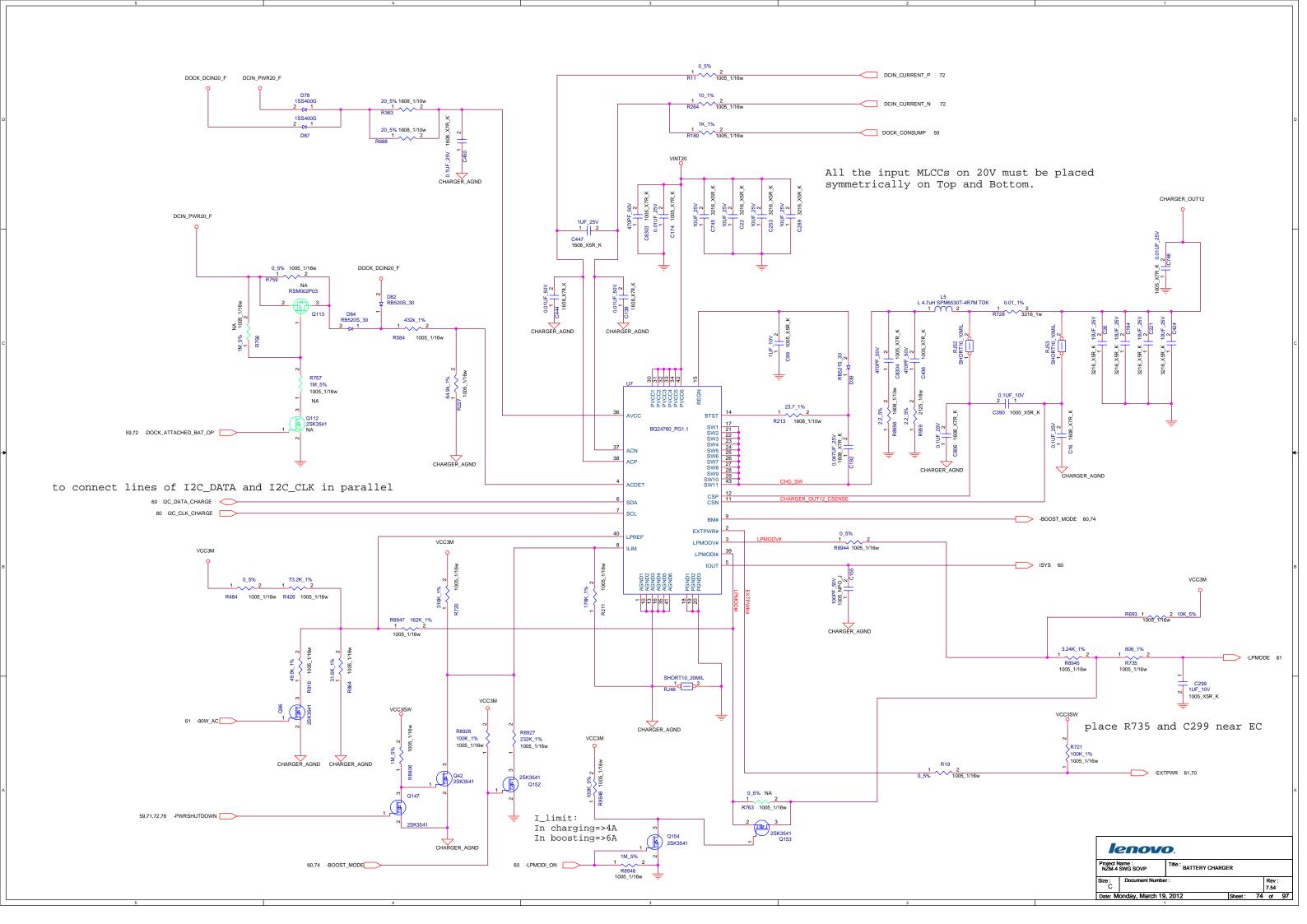


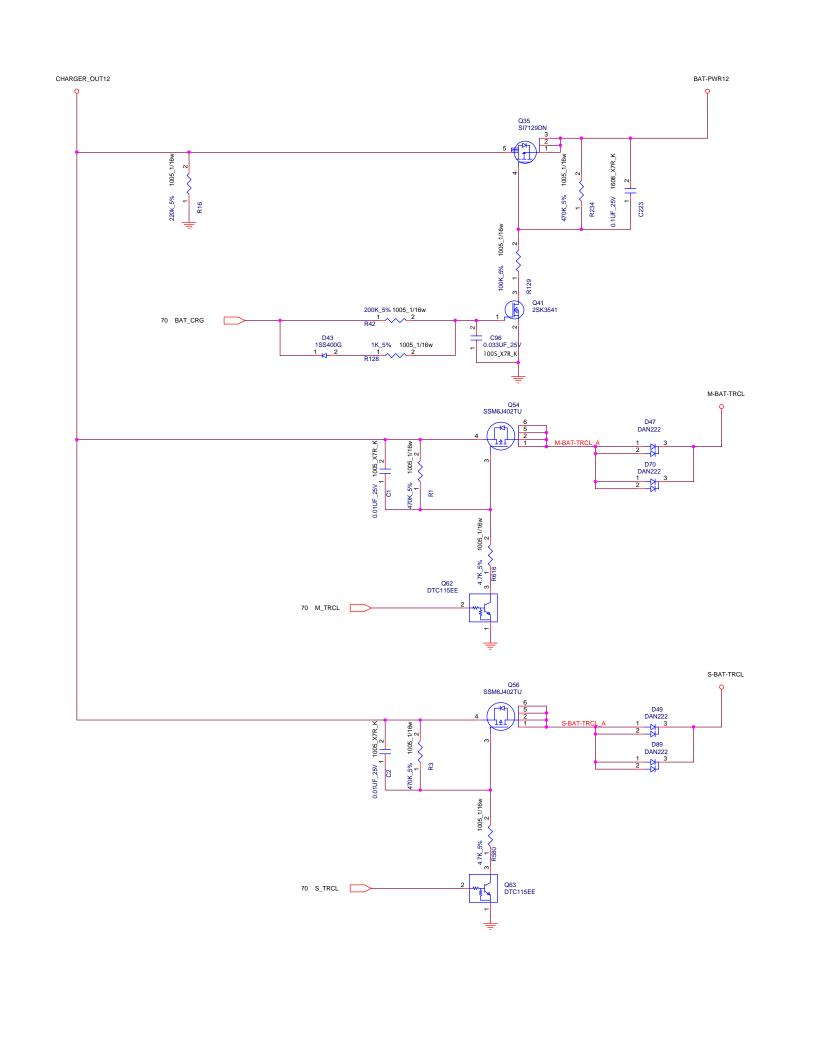




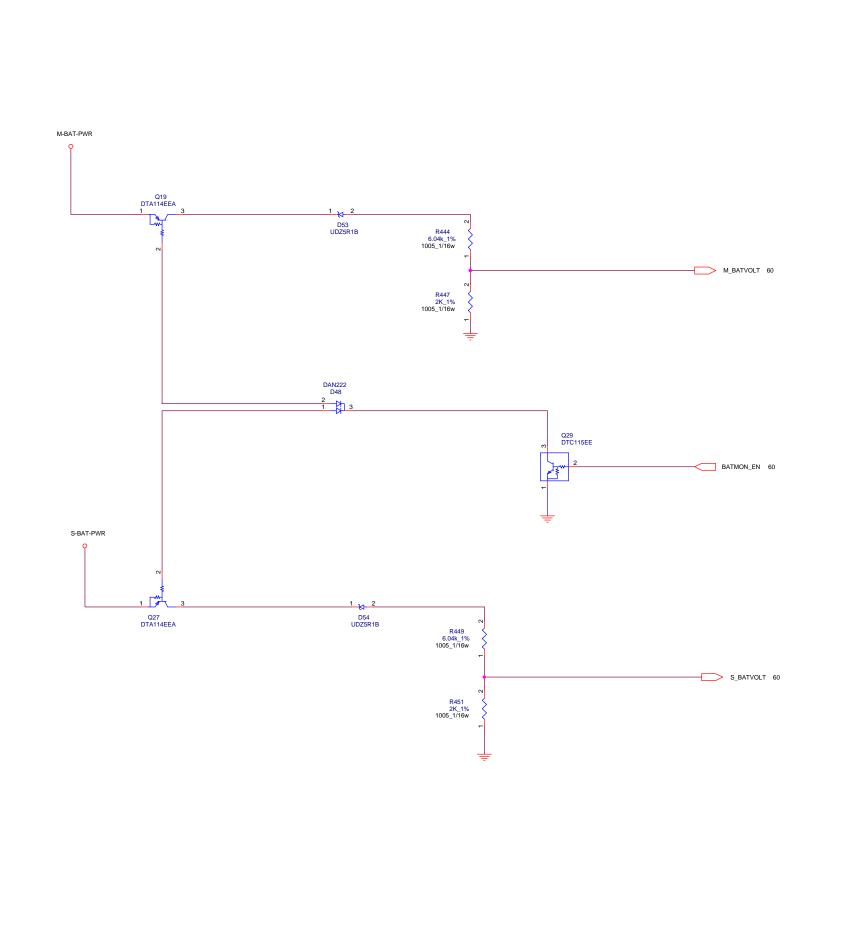


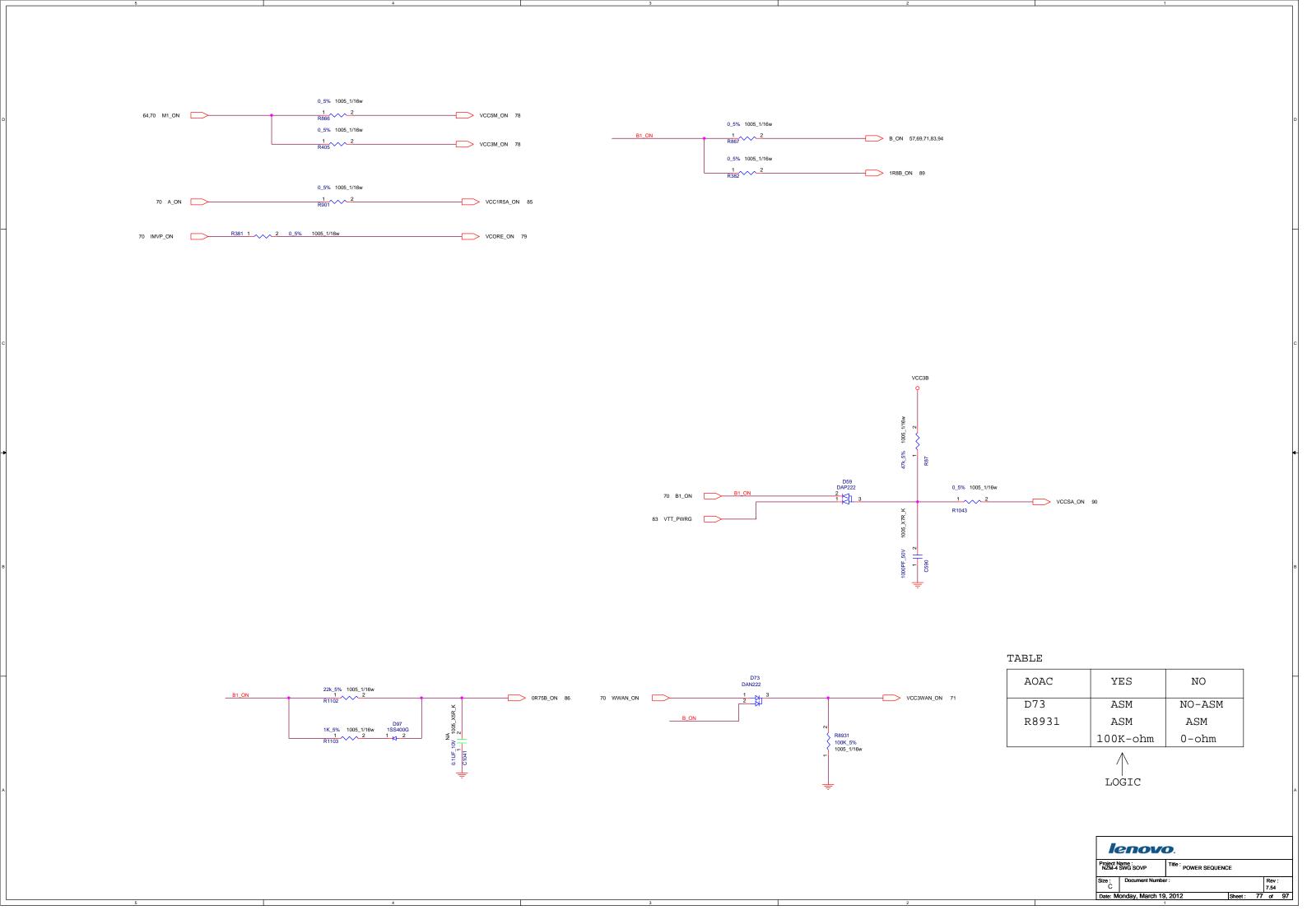


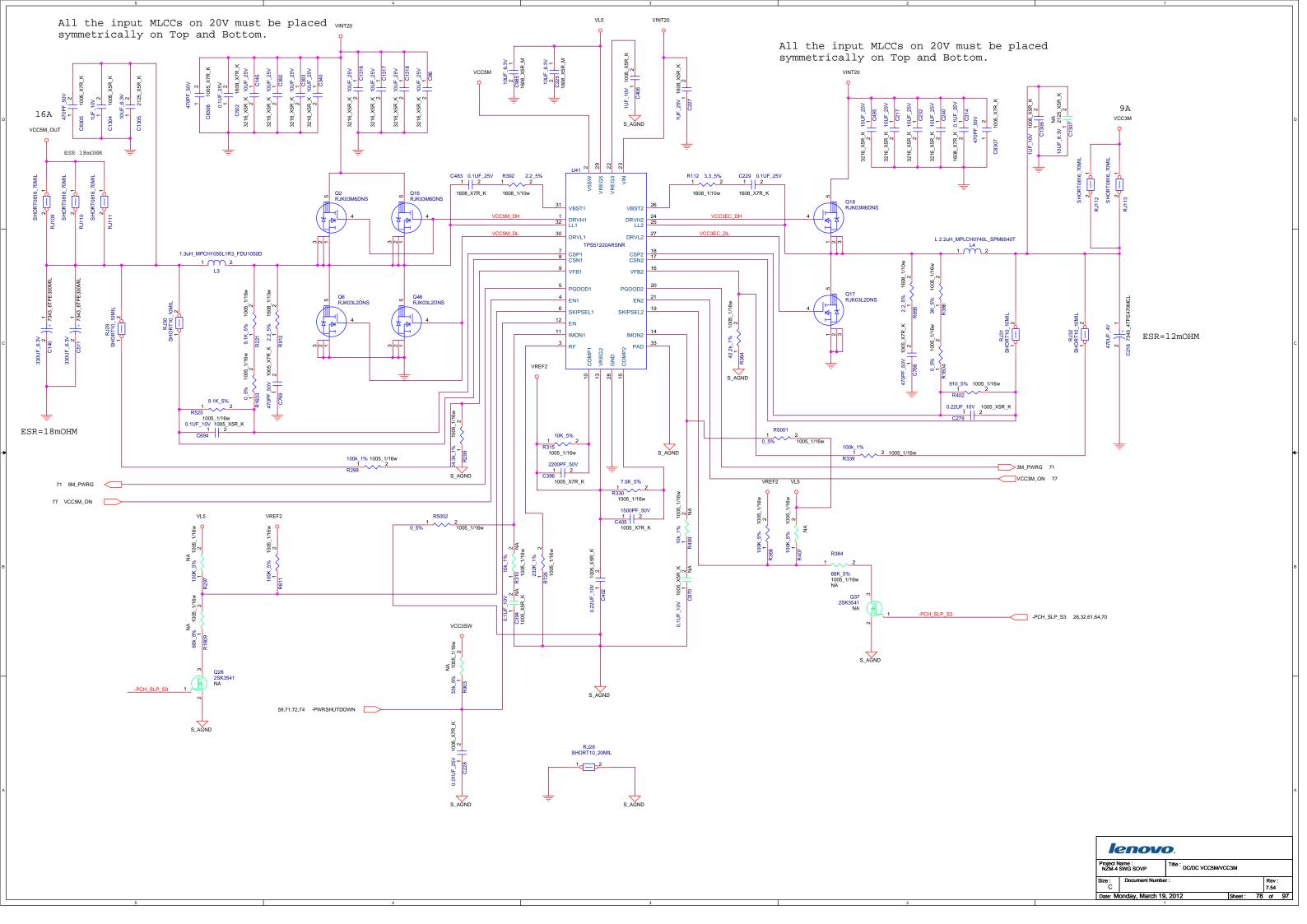


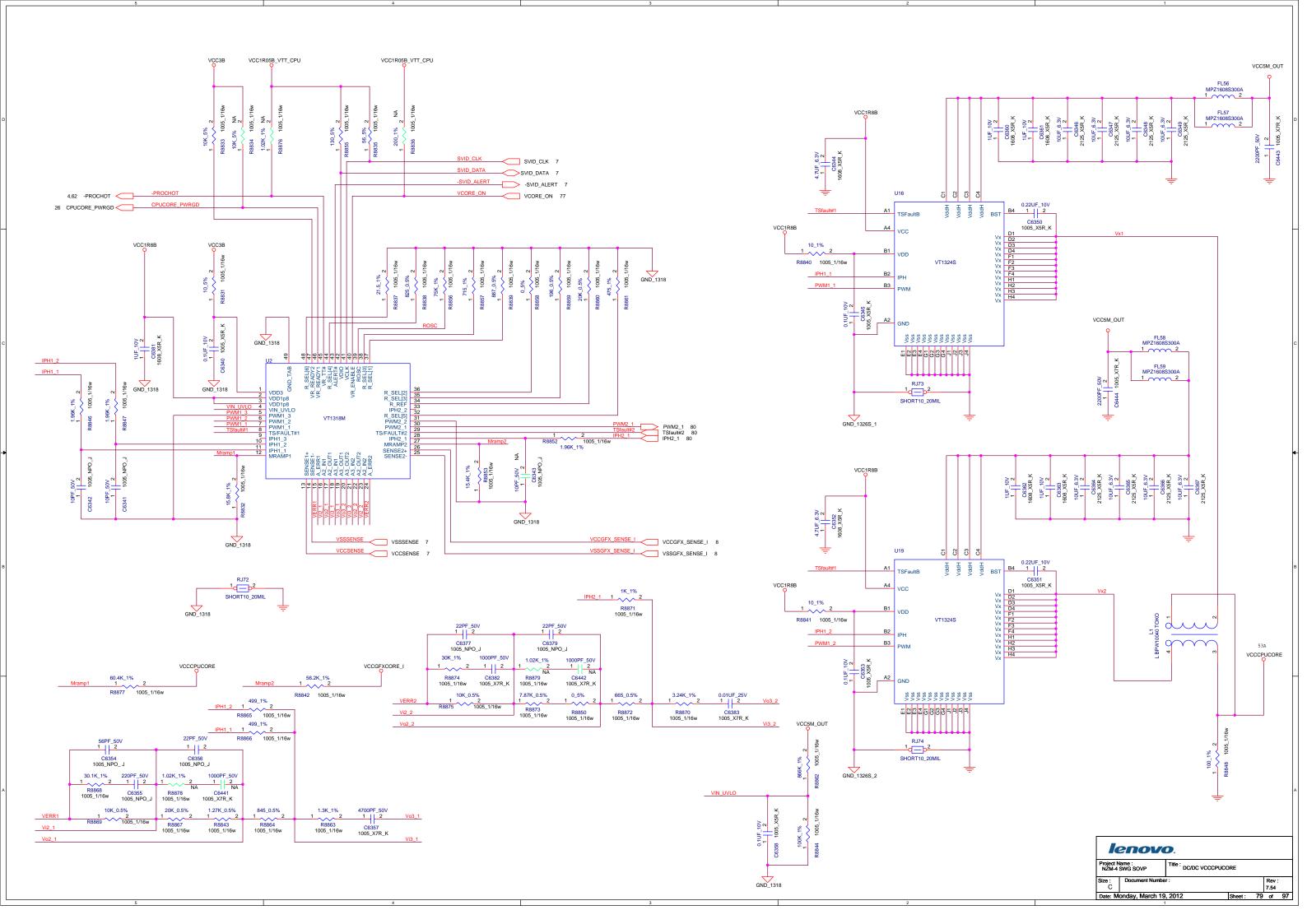


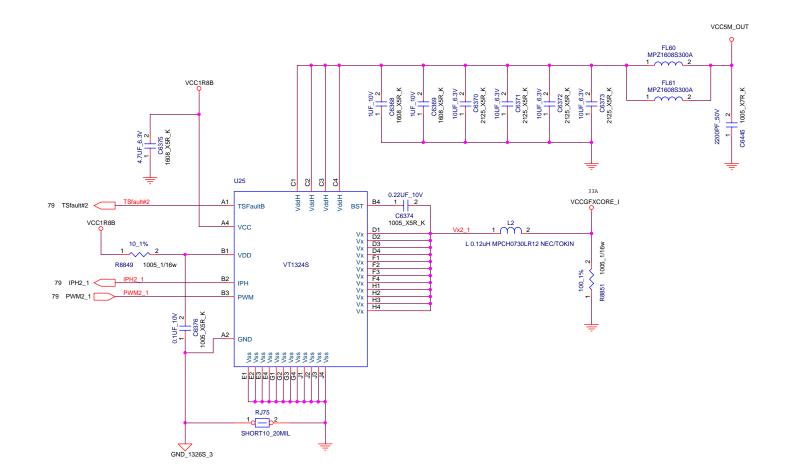
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Size : Document Number	:			Rev : 7.54	
Date: Monday, March 19,	2012	Sheet:	75	of	97

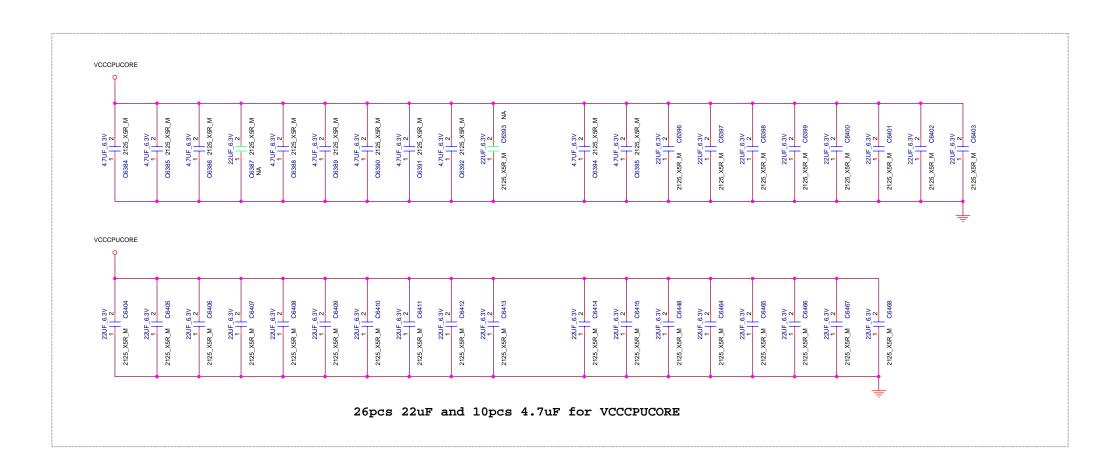


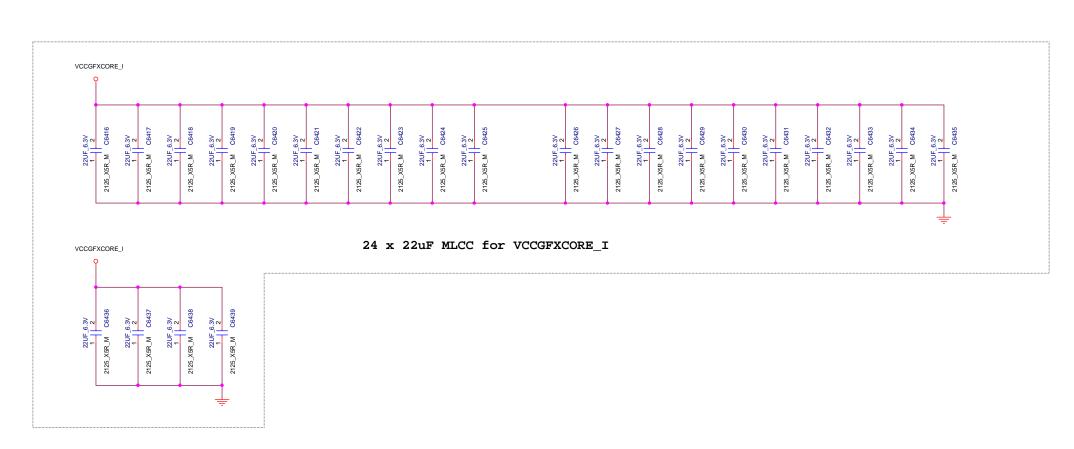




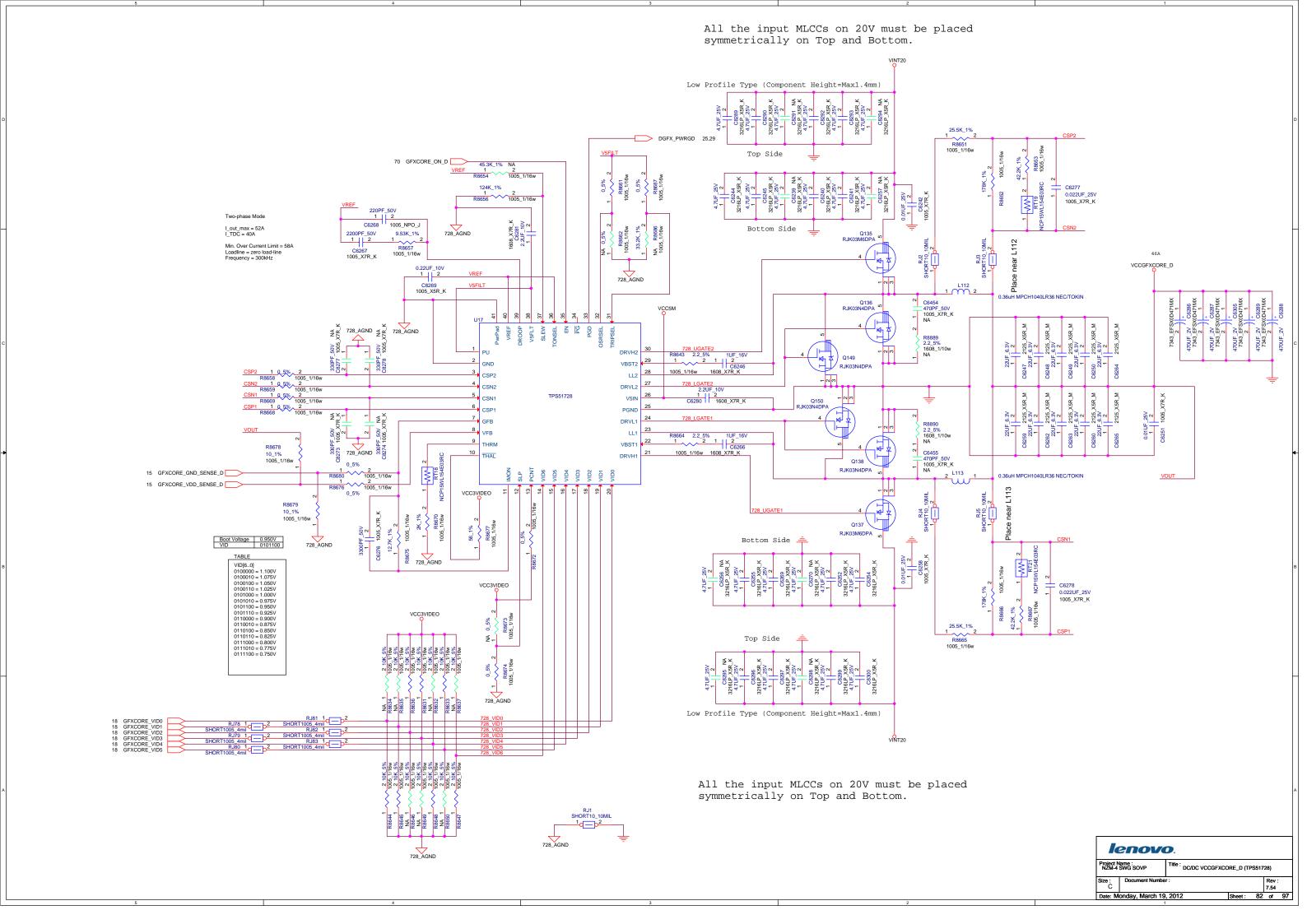


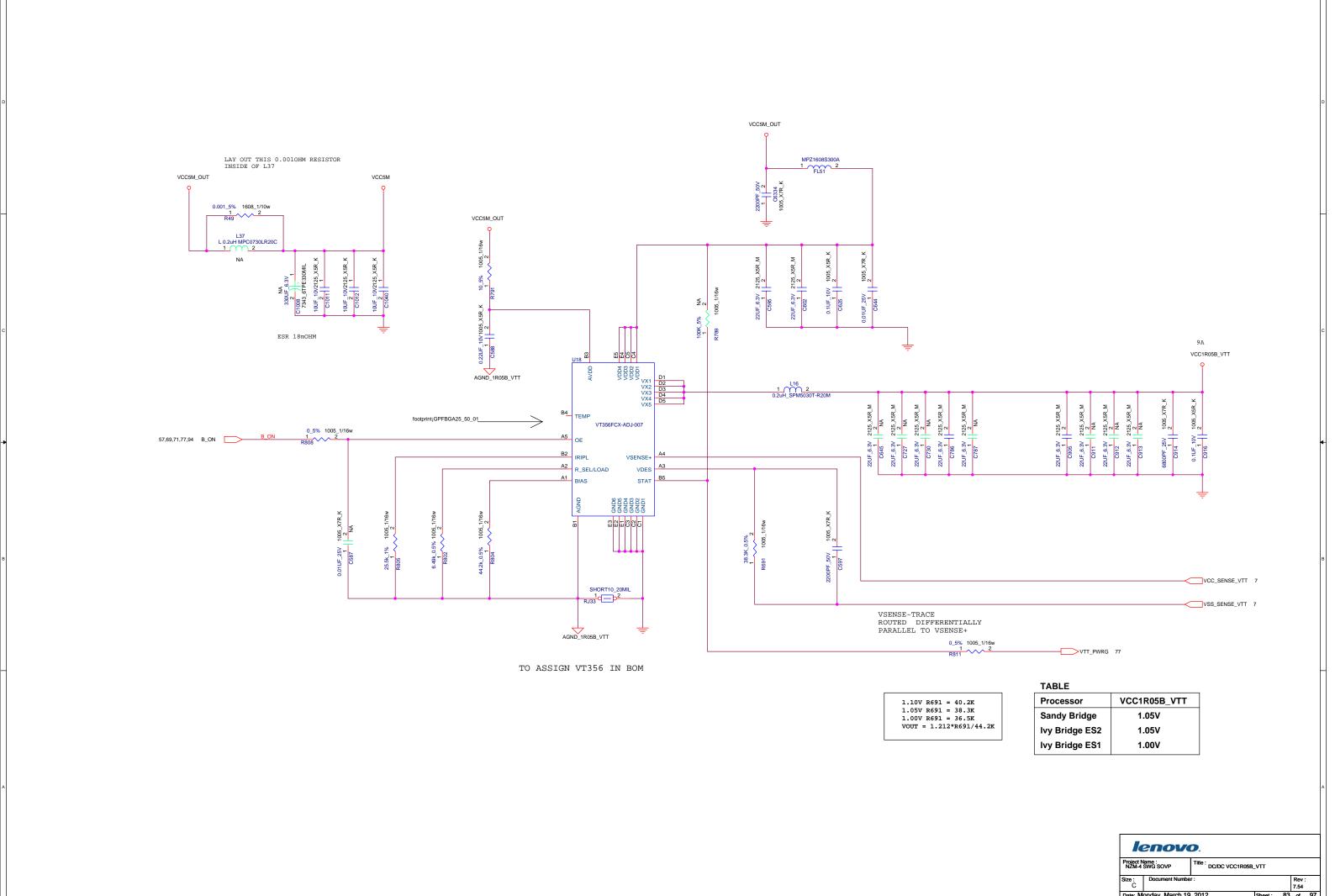


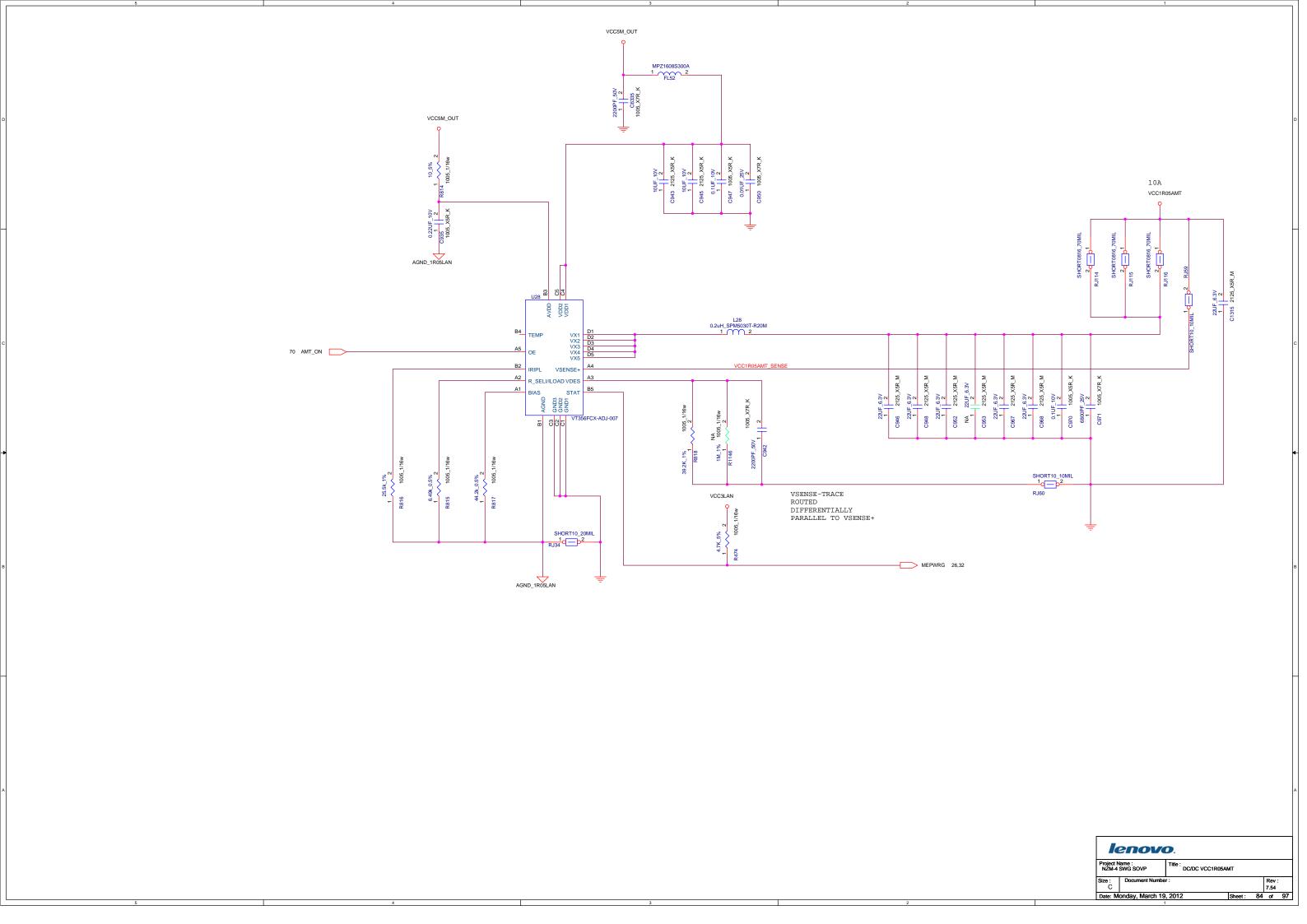


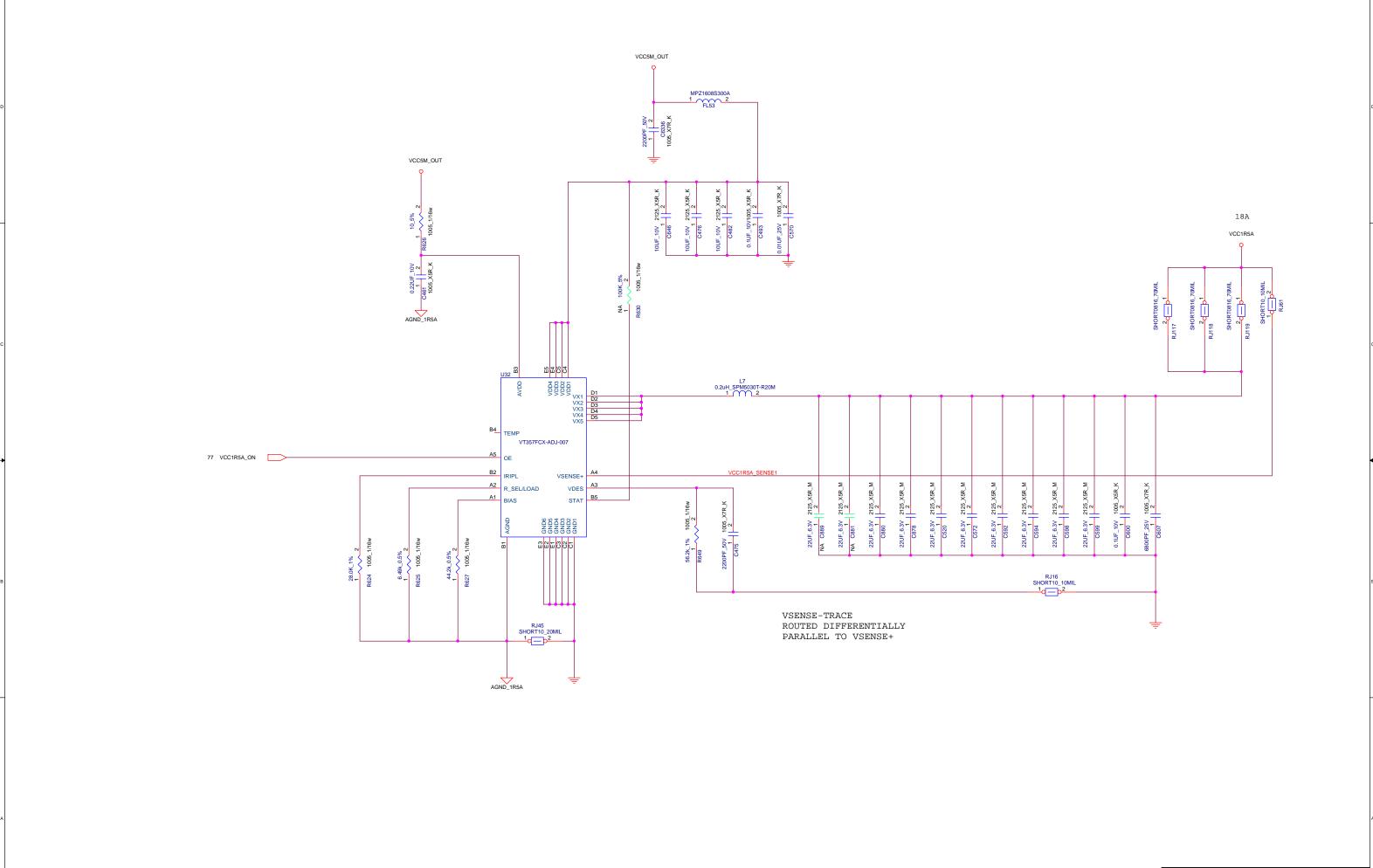


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Size : C		Document Numbe	r:				Rev : 7.54	
	Date: M	onday, March 19	, 2012		Sheet:	81	of	97

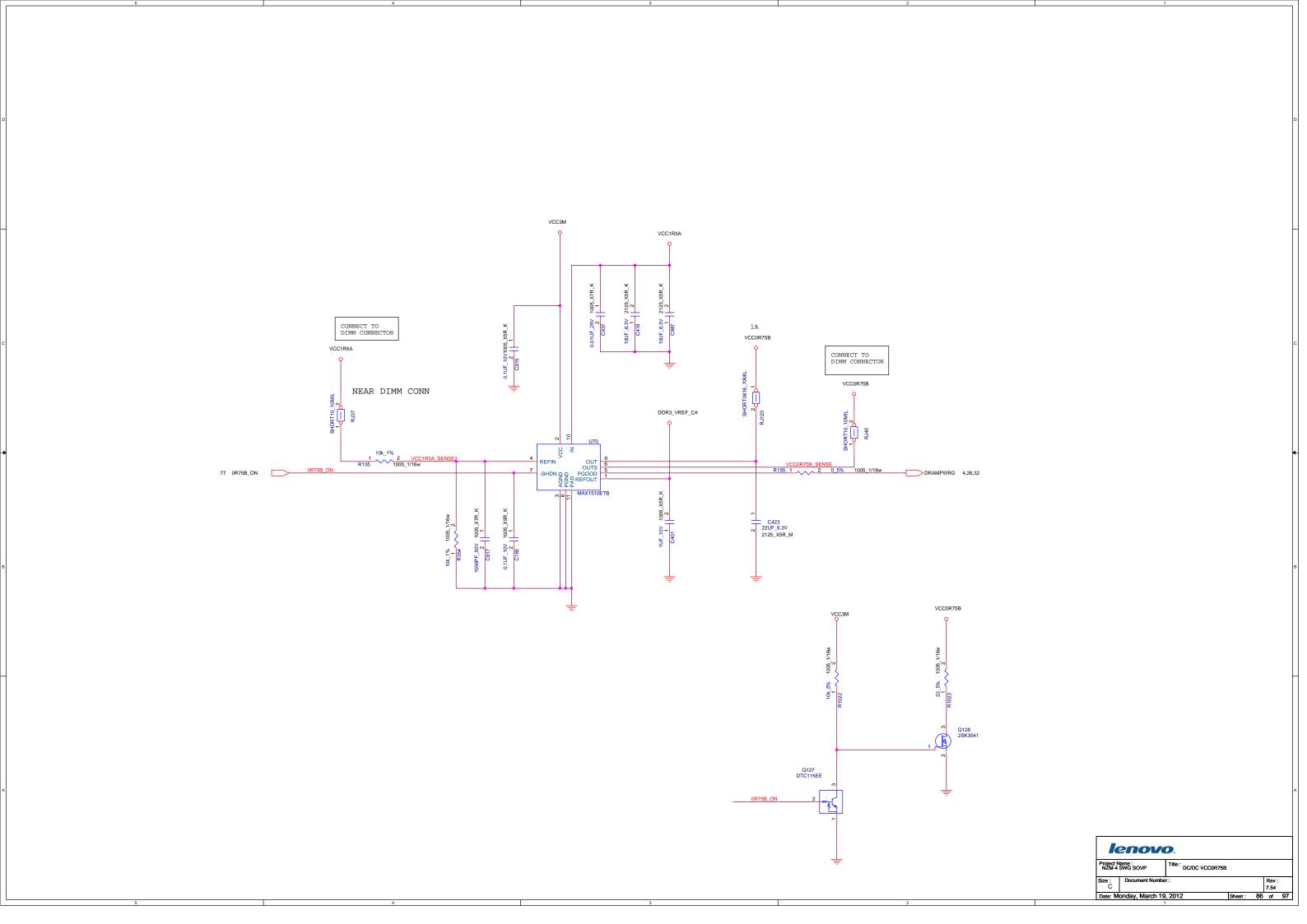


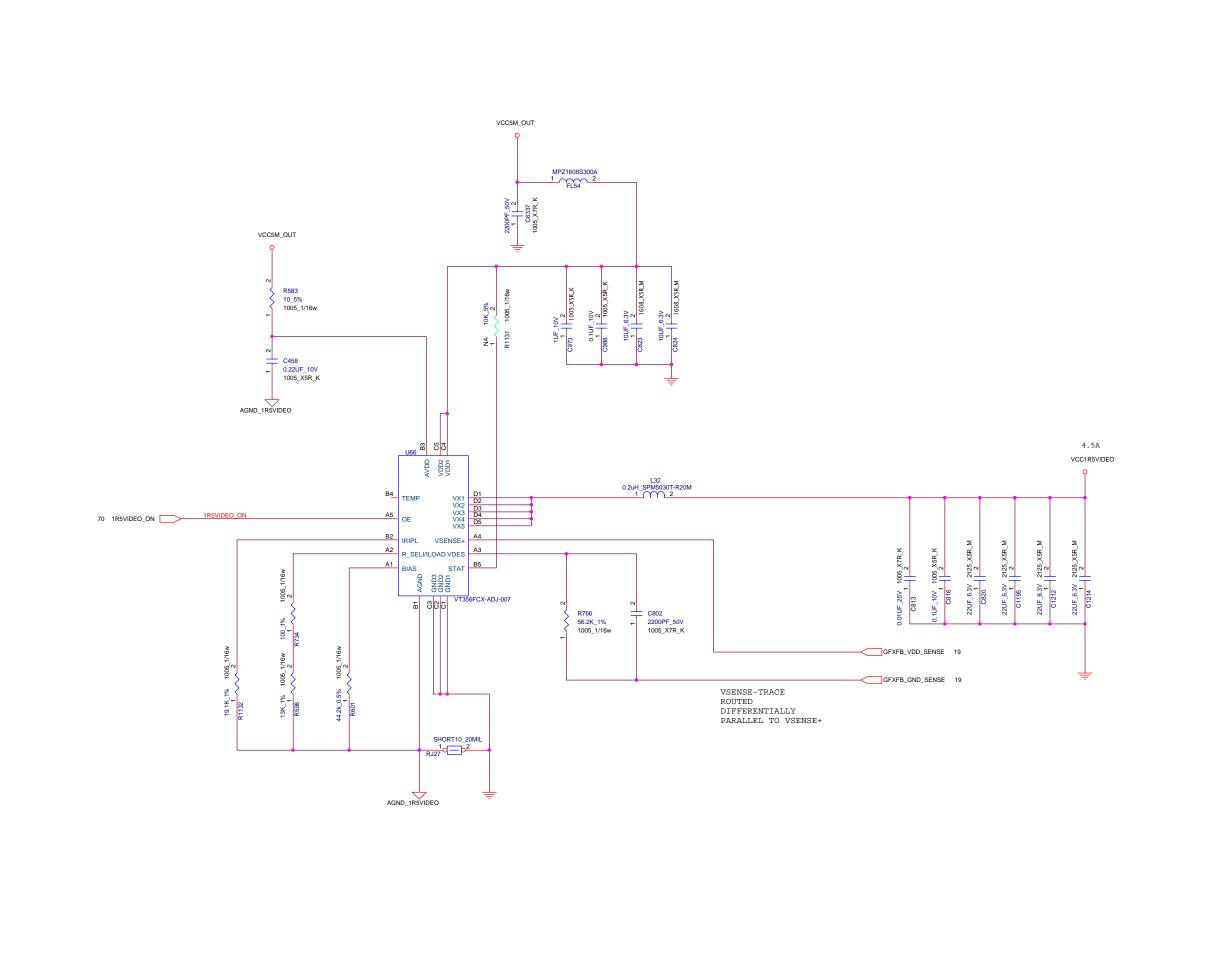


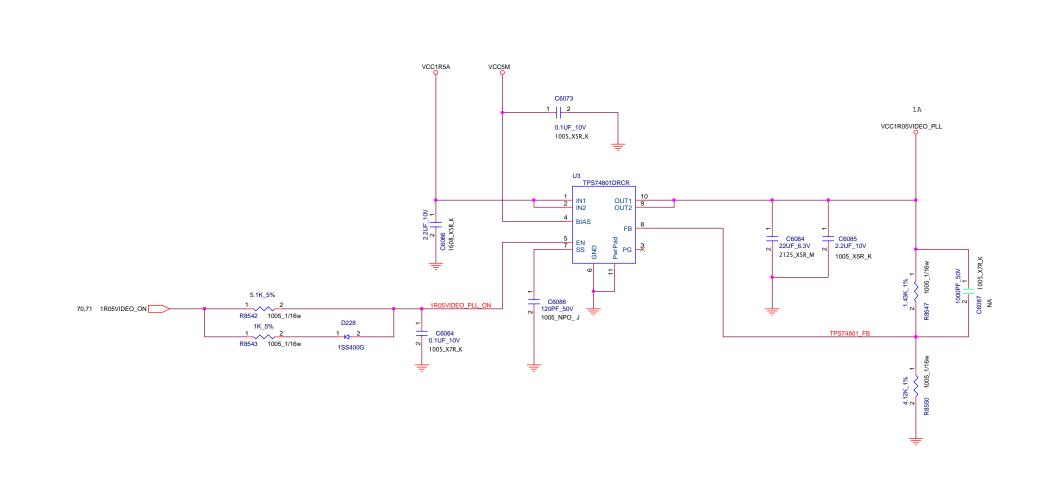


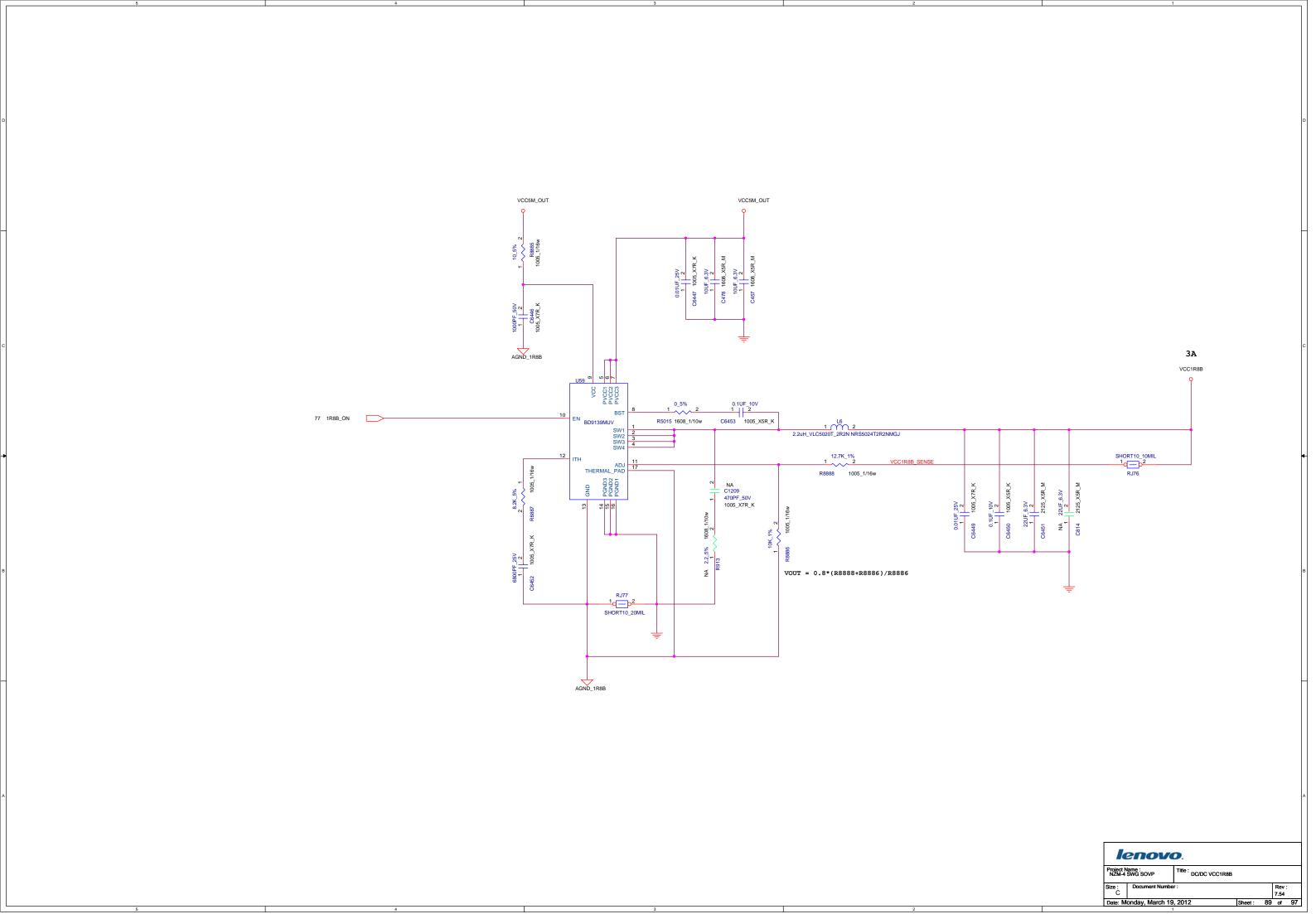


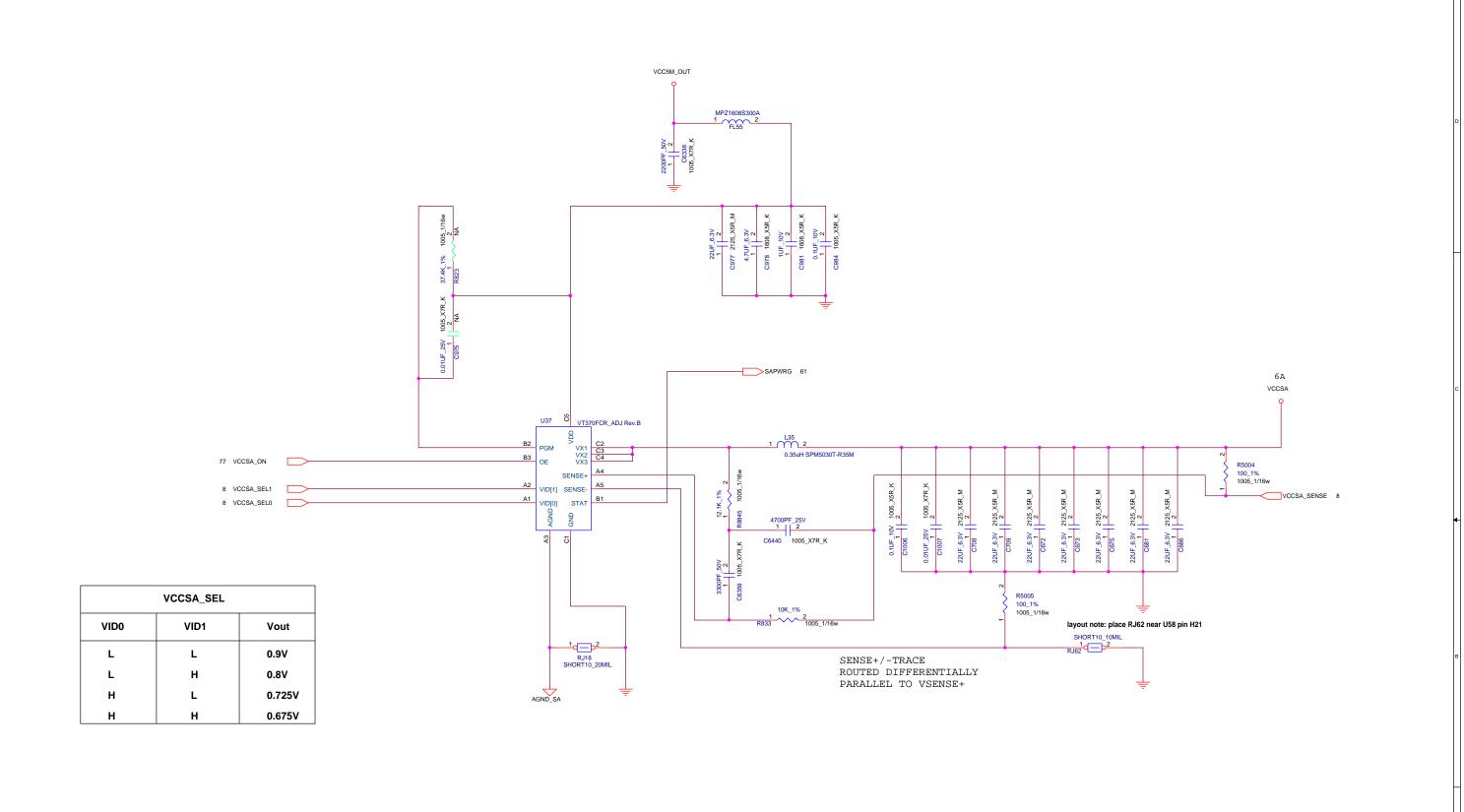
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| Sheet: 85 of 97

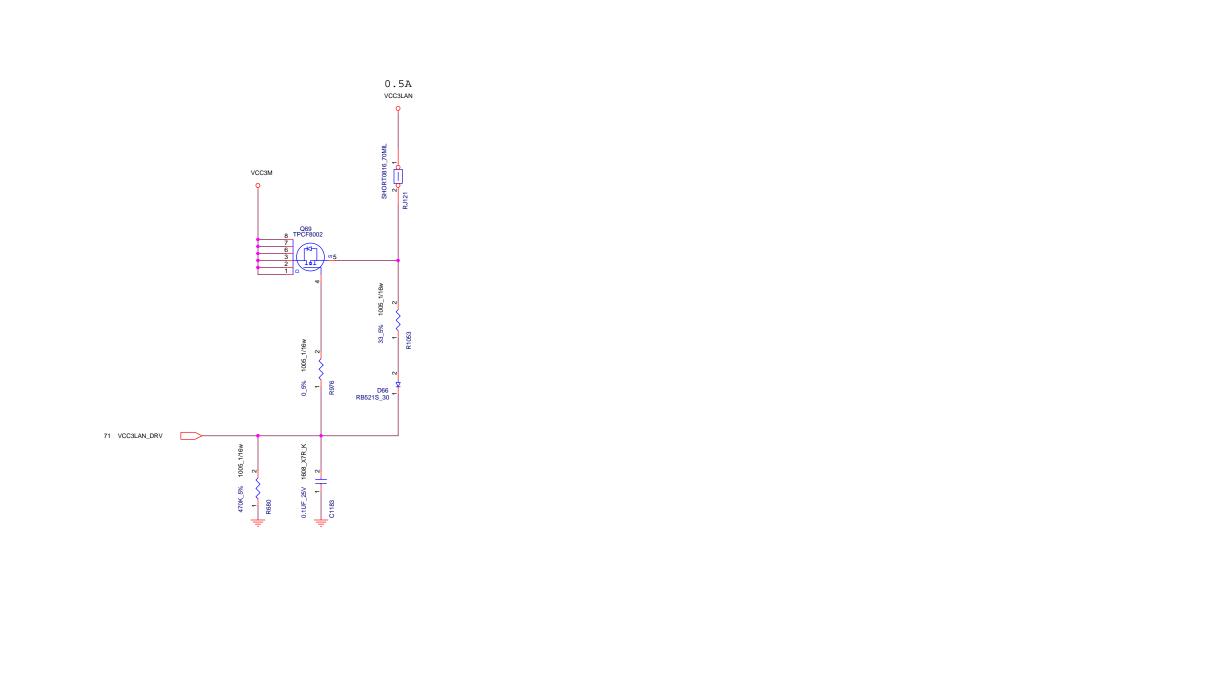




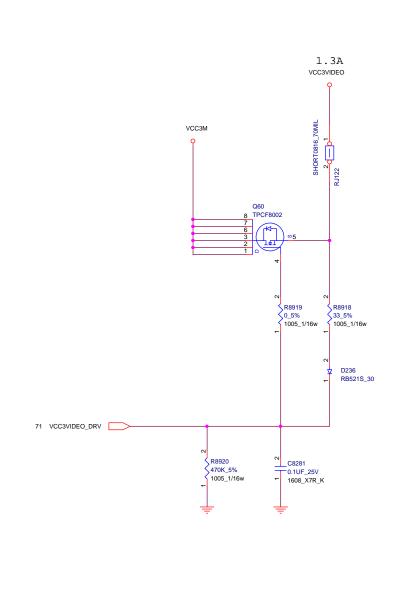


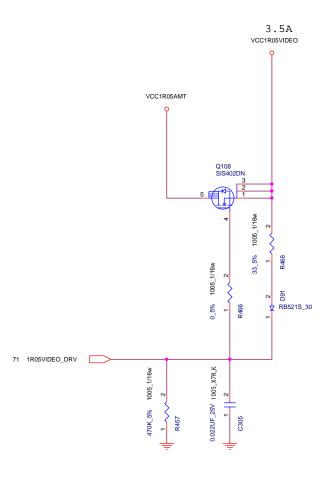






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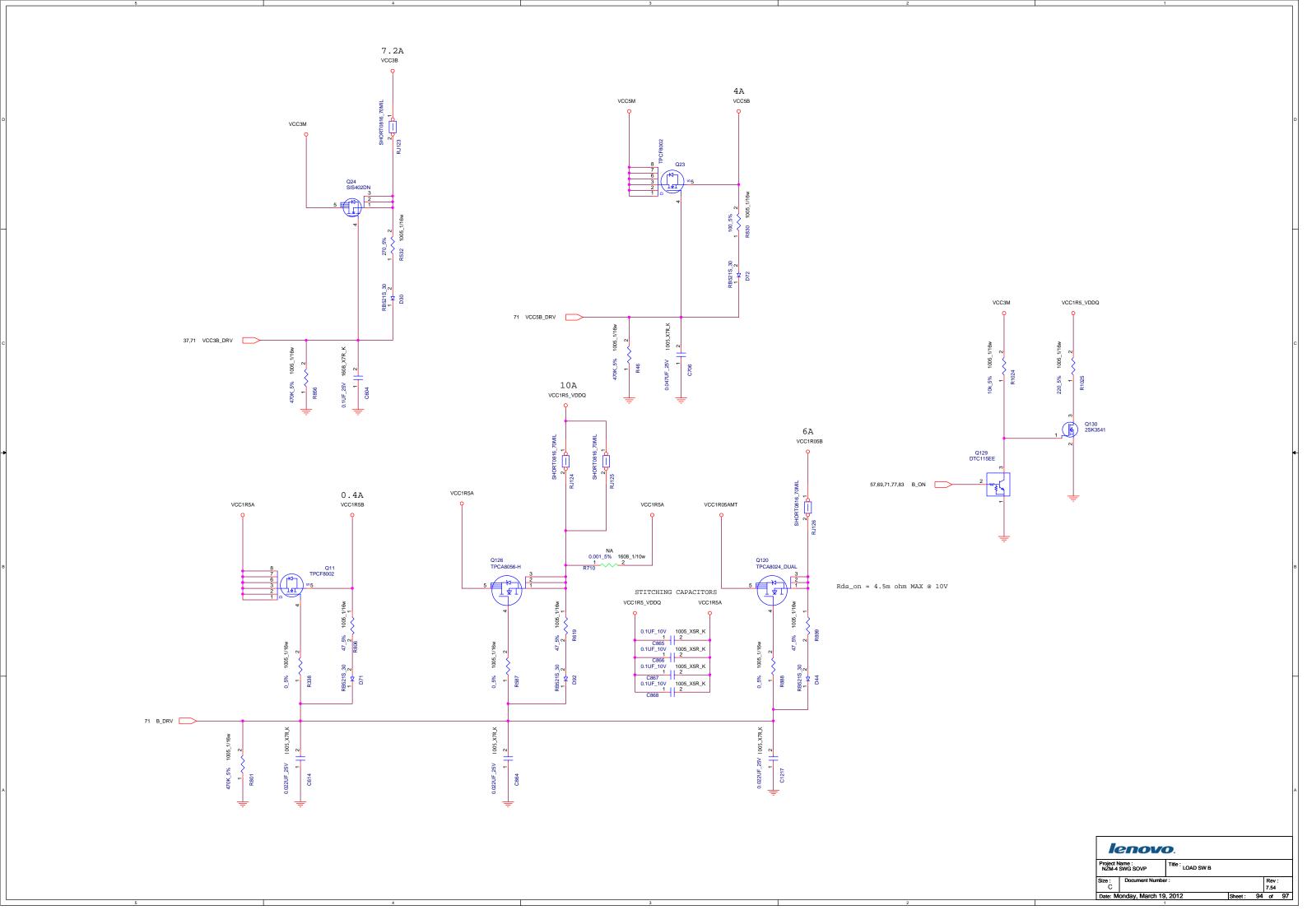


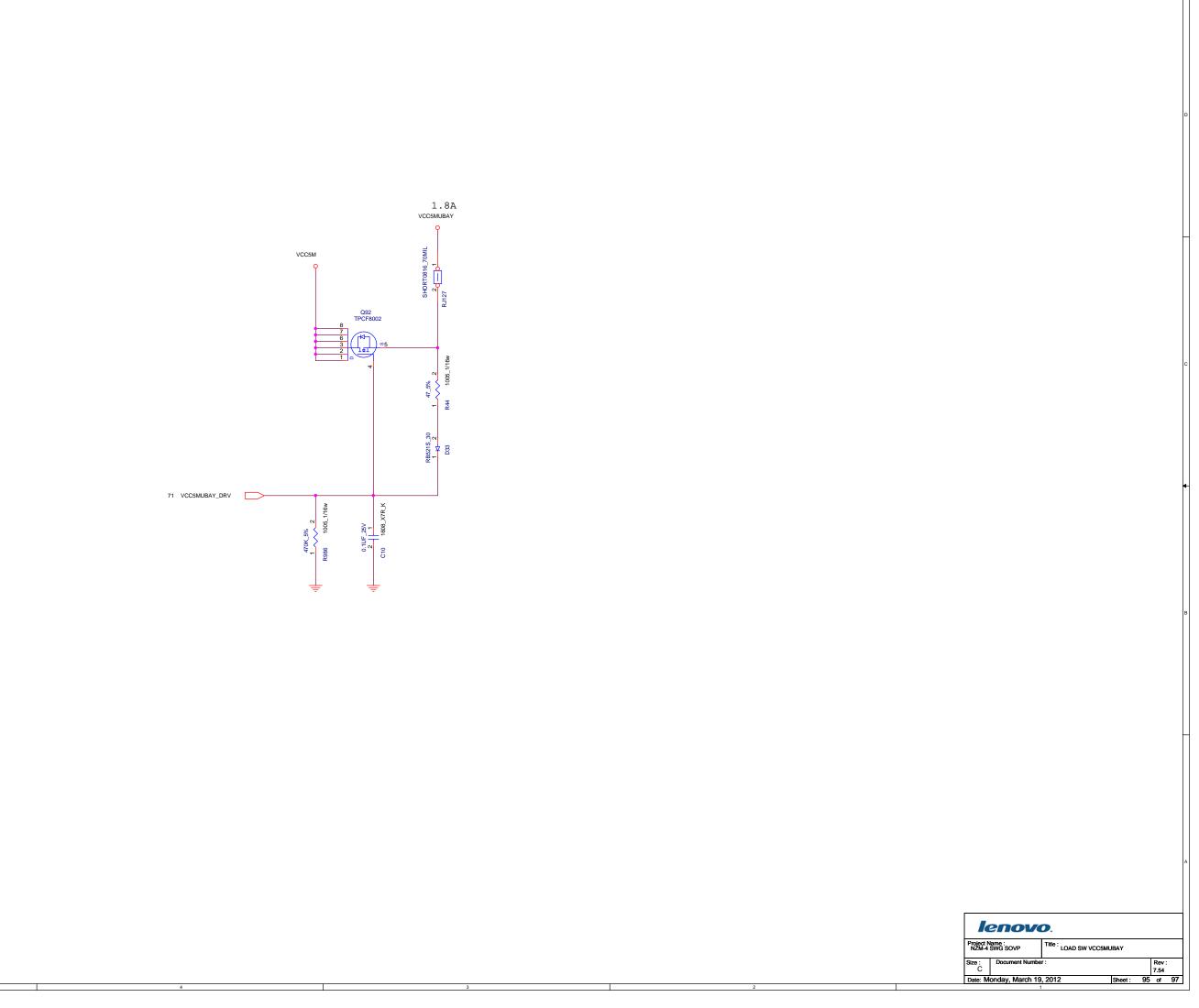


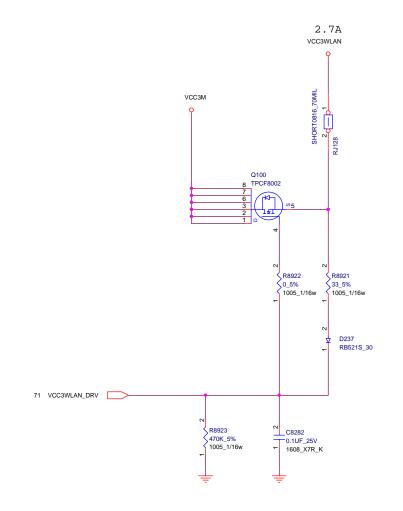
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	Date: M	onday, March 19	, 2012	Sheet:	92	of	97	

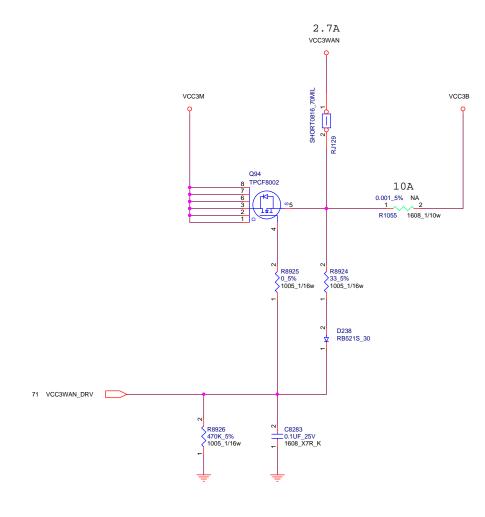
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TABLE

AOAC	YES	NO
R1055	NO-ASM	ASM
Q94	ASM	NO-ASM
R8924	ASM	NO-ASM
R8925	ASM	NO-ASM
R8926	ASM	NO-ASM
C8283	ASM	NO-ASM
D238	ASM	NO-ASM



	lenovo.						
Project Name : NZM-4 SWG SOVP		Title: LOAD SW W	/AN & WLAN				
Size : C	Document Number	er:			Rev : 7.54		
Date: M	londay, March 19	9, 2012	Sheet :	96	of	97	

