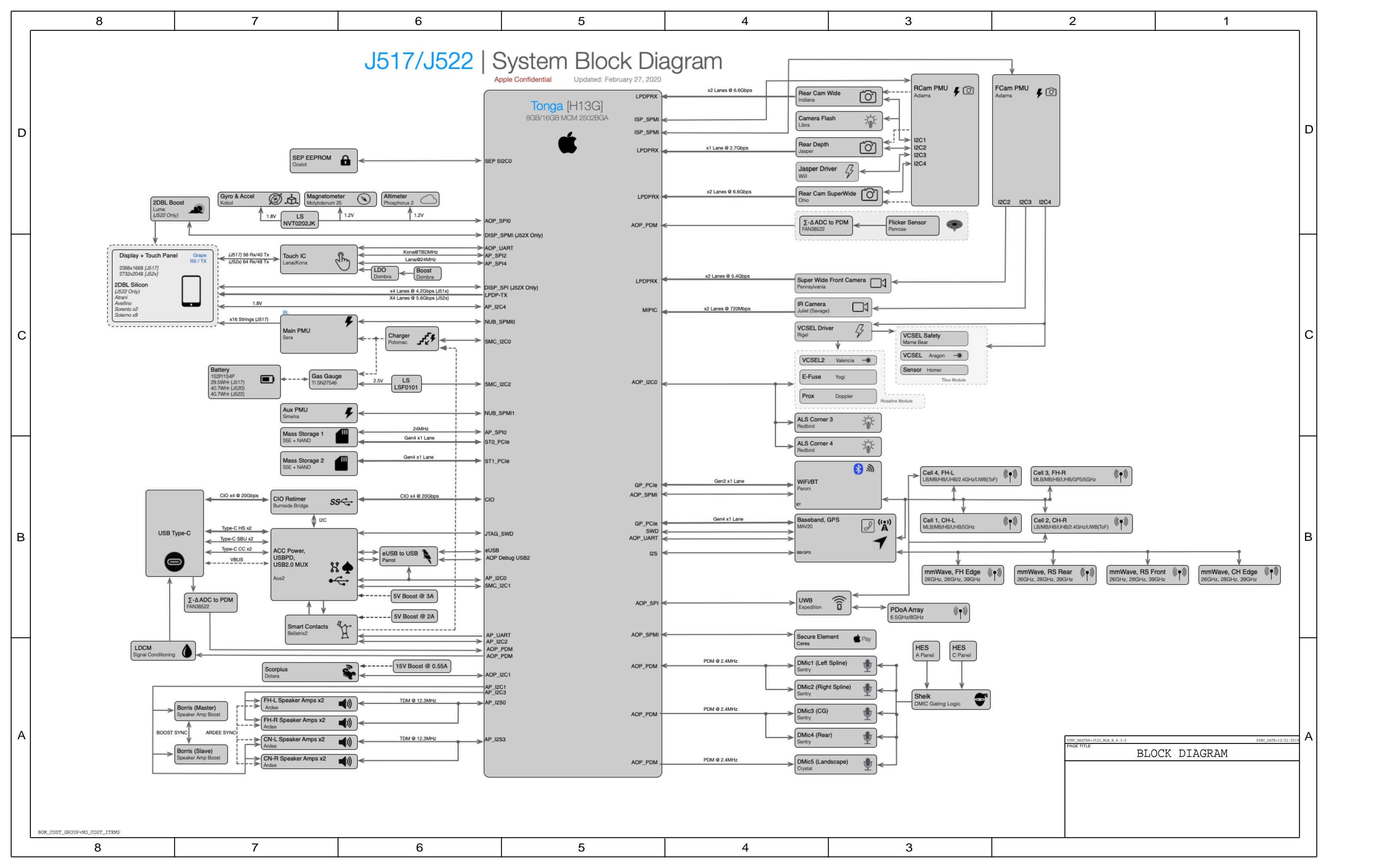
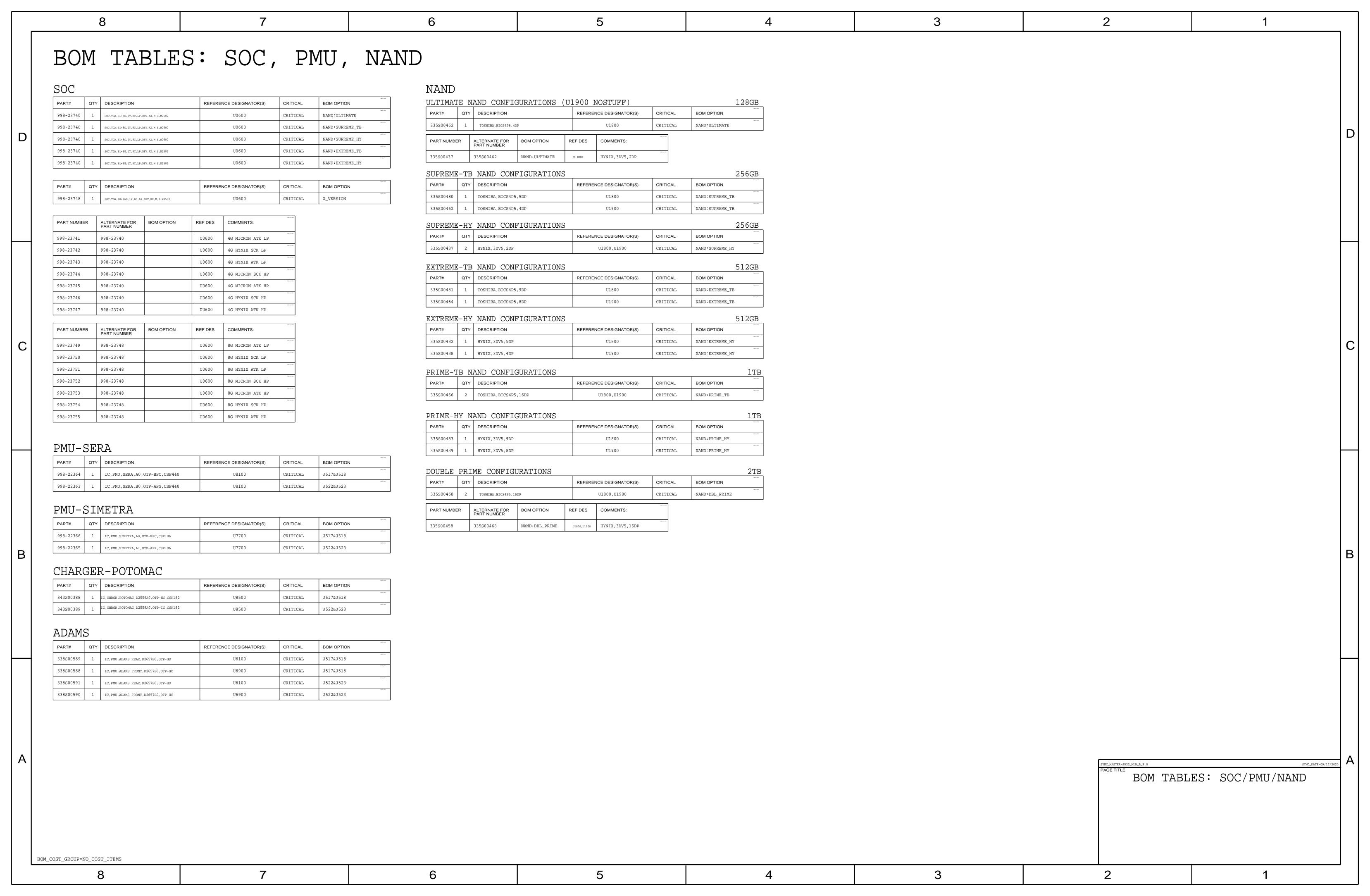
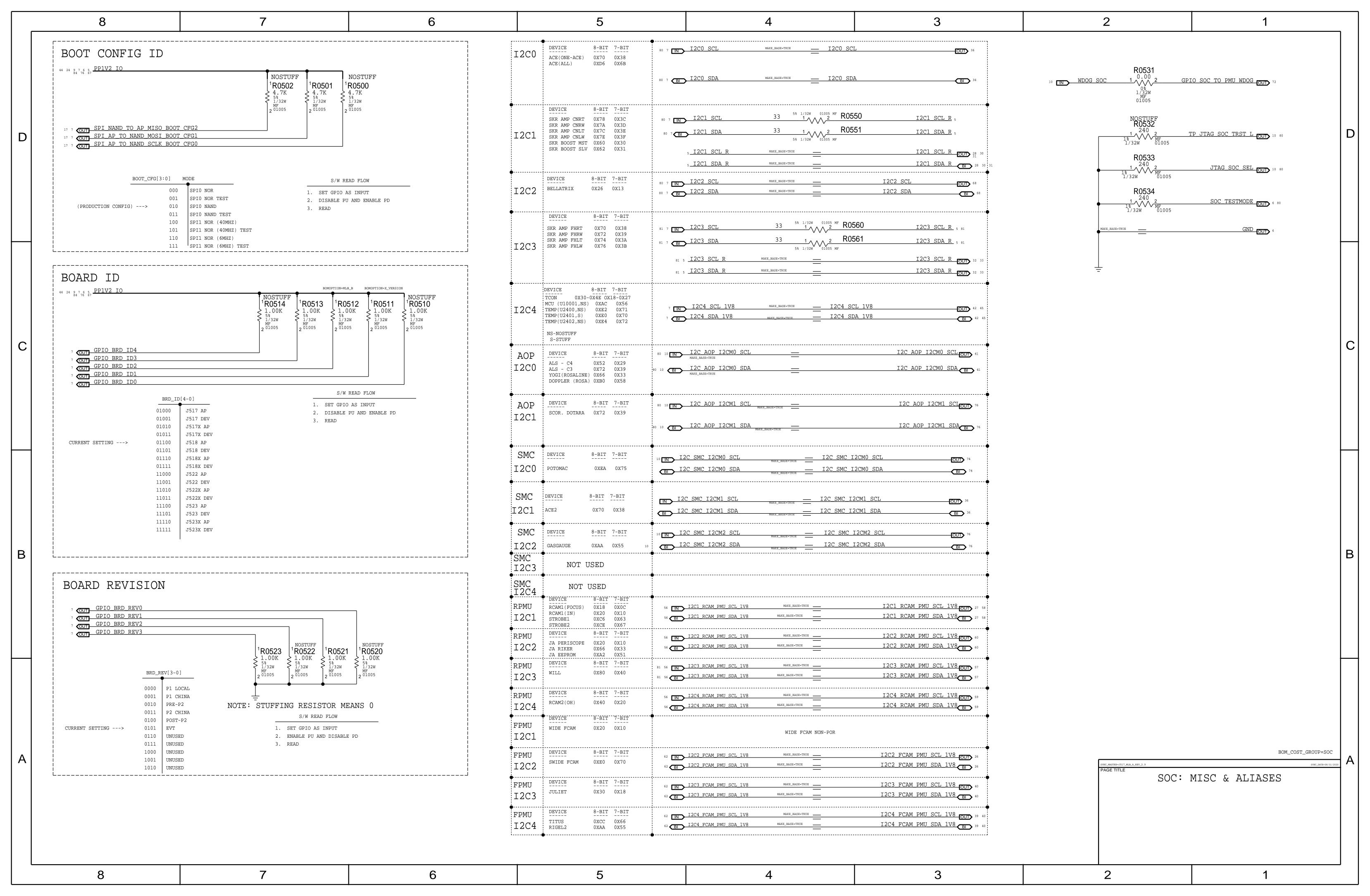
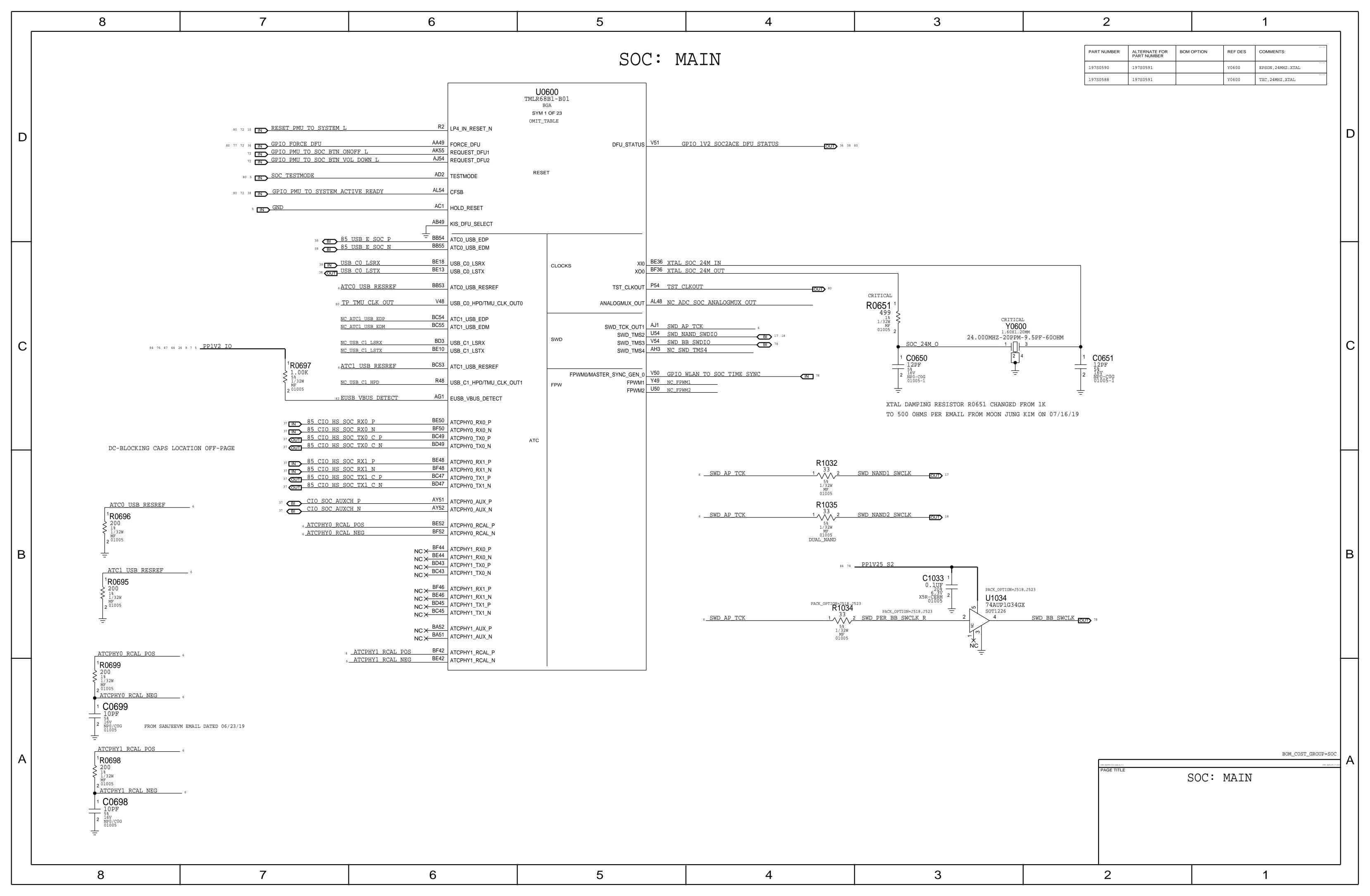
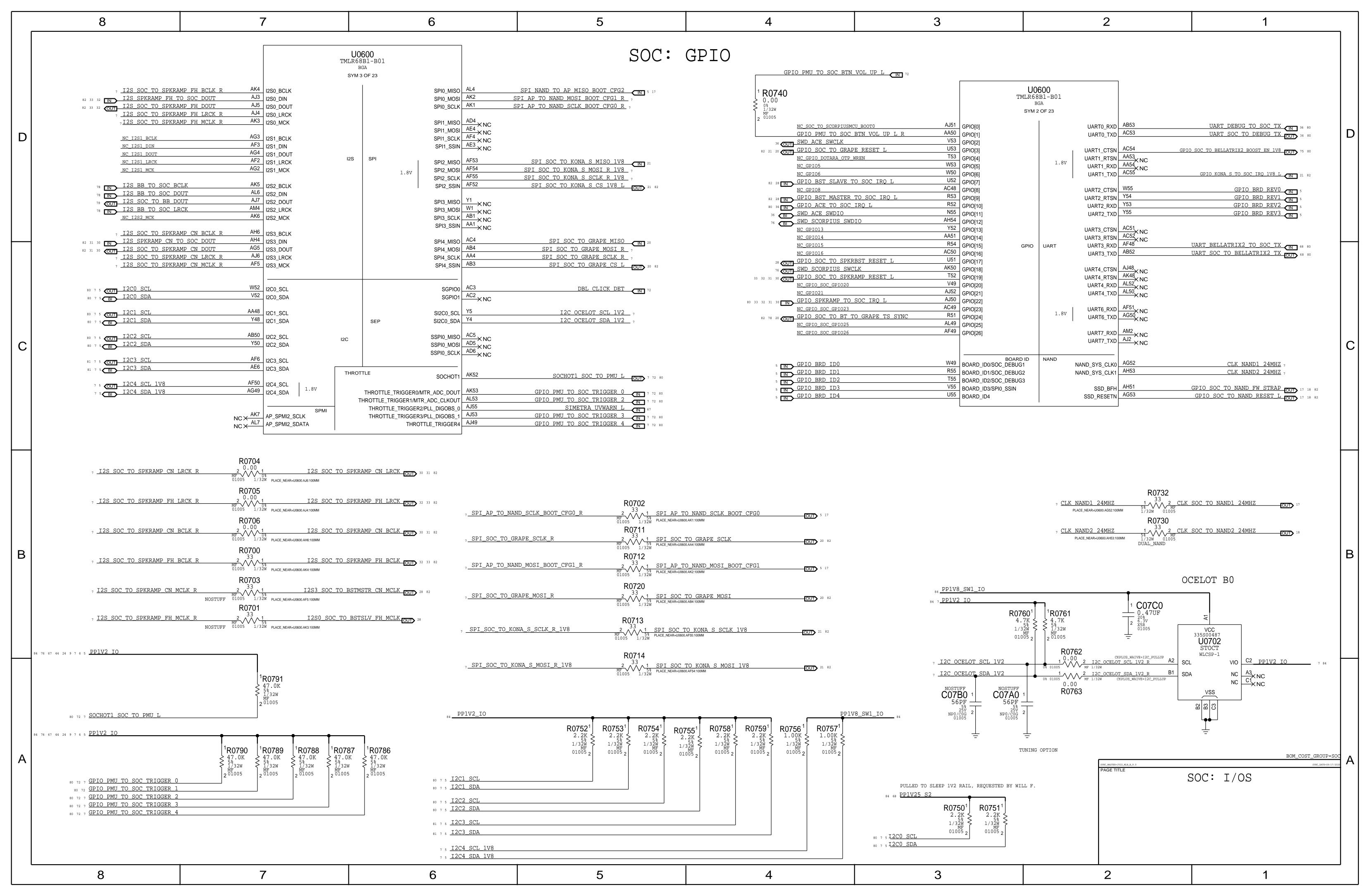
	8	7	6		5	4		3	2		1	
	1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.				J517 MLB-B:	EVT CHI	INA		REV	ECN	DESCRIPTION OF REVISION	CK APPD DATE
	3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.								5			2020-10-15
	LAST_MODIFICATION=Thu Oct 15 0	00:01:06 2020			LAST_MODIFICATION=Thu Oct 15 00:01:06 20	20		LAST_MODIFICATION=Thu Oct 15 00	:01:06 2020			
D	PAGE CSA CONTENTS	SYNC	DATE		A CONTENTS	SYNC	DATE	PAGE CSA CONTENTS		SYNC		
	1 1 TABLE OF CONTENTS	J522_MLB_B_1.16.0	11/18/2019	53 56		J522_MLB_B_9.0	09/17/2020	105 120 DCDC1		RADIO_RE		. D
	2 2 BLOCK DIAGRAM 3 3 BOM TABLES: SOC/PMU/NAND	J522_MLB_B_4.3.0	12/21/2019	54 59 55 60		J522_MLB_B_9.0	09/17/2020	106 121 LB PAD 107 122 HB PAD		RADIO_REV	10/00/000	.
	4 4 BOM TABLES: MECH/DISC/ETC	J522_MLB_B_9.0 J517_MLB_A_REV_2.0	08/05/2020	56 61		J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020	107 122 NB PAD 108 123 UHB LAT PAD		RADIO_RET	10/00/000	-
	5 5 SOC: MISC & ALIASES	J517_MLB_A_REV_2.9	08/31/2020	57 62		J522_MLB_B_9.0	09/17/2020	109 124 LMB_2G_PAD		RADIO_RE	10/00/000	-
	6 6 SOC: MAIN	J522_MLB_B_9.0	09/17/2020	58 65	CAMERA: B2B RCAM1 WIDE	J522_MLB_B_9.0	09/17/2020	110 125 LB DSM		RADIO_RE	y_3.37 10/08/2020	-
	7 7 SOC: I/OS	J522_MLB_B_9.0	09/17/2020	59 66	CAMERA: B2B RCAM2 SWIDE	J522_MLB_B_9.0	09/17/2020	111 126 HB TXDSM		RADIO_RE	v_3.37 10/08/2020	
	8 8 SOC: LPDP & MIPI	J522_MLB_B_9.0	09/17/2020	60 67	CAMERA: B2B JASPER	J522_MLB_B_9.0	09/17/2020	112 127 UHB DSM		RADIO_RE	v_3.37	
	9 9 SOC: PCIE	J522_MLB_B_9.0	09/17/2020	61 68	CAMERA: ADAMS FRONT POWER (1/2)	J522_MLB_B_9.0	09/17/2020	113 128 MIMO DSM LOWER		RADIO_RE		-
	10 10 SOC: AOP	J522_MLB_B_9.0	09/17/2020		CAMERA: ADAMS REAR IO (2/2)	J522_MLB_B_9.0	09/17/2020	114 129 MIMO DSM UPPER		RADIO_RE		-
	11 11 SOC: POWER (DDR, SRAM) 12 12 SOC: POWER (IO)	J522_MLB_B_9.0	09/17/2020	-	NFC GPM	J522_MLB_B_9.0	09/17/2020	115 130 COUPLER LOWER		RADIO_RE		-
	12 12 SOC: POWER (IO) 13 13 SOC: POWER (CPU, GPU)	J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020	64 76 65 77		J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020	116 131 COUPLER UPPER 117 132 GNSS_L1		RADIO_REV	10/00/000	-
	14 14 SOC: POWER (SRAM, SOC)	J522_MLB_B_9.0	09/17/2020	66 78		J522_MLB_B_9.0	09/17/2020	118 133 GNSS_L5		RADIO_RE	10/00/000	-
	15 15 SOC: GND	J522_MLB_B_9.0	09/17/2020	67 79	POWER: SIMETRA (3/3)	J522_MLB_B_9.0	09/17/2020	119 134 LAA CONNECTIONS		RADIO_RE	10/00/000	-
	16 16 SOC: GND-2	J522_MLB_B_9.0	09/17/2020	68 80	ORION CONNECTOR & POWER PATH	J522_MLB_B_9.0	09/17/2020	120 135 FOREHEAD ANTENNA FEEDS_ANT4A		RADIO_RE	v_3.37 10/08/2020	
C	17 18 NAND	J522_MLB_B_9.0	09/17/2020	69 81	POWER: SERA (1/4)	J522_MLB_B_9.0	09/17/2020	121 136 FOREHEAD ANTENNA FEEDS_ANT4B		RADIO_RE	y_3.37 10/08/2020	_ C
	18 19 NAND	J522_MLB_B_9.0	09/17/2020	70 82	POWER: SERA (2/4)	J522_MLB_B_9.0	09/17/2020	122 137 CHIN ANTENNA FEEDS_ANT2A		RADIO_REV		
	19 21 SENSOR: KOBOL, PHOS2, MOLY	J522_MLB_B_9.0	09/17/2020	71 83		J522_MLB_B_9.0	09/17/2020	123 138 CHIN ANTENNA FEEDS_ANT2B		RADIO_RE		-
	20 22 TOUCH: LANAI MASTER 21 22 TOUCH: KONA SLAVE	J522_MLB_B_9.0	09/17/2020	72 84	POWER: SERA (4/4) POWER: CHARGER	J522_MLB_B_9.0	09/17/2020	124 139 ANT CONNECTORS		RADIO_RE		-
	21 23 TOUCH: KONA SLAVE 22 24 TOUCH: GRAPE CONN	J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020		POWER: CHARGER POWER: VT LDO	J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020	125 140 METROCIRC 126 141 ESIM		RADIO_REV	10/00/000	-
	23 25 TOUCH: SENSE & DRIVE ALIAS	J522_MLB_B_9.0	09/17/2020	-	POWER: BELLATRIX2 BOOSTS	J522_MLB_B_9.0	09/17/2020	127 142 DEBUG & TEST POINTS		RADIO_RE	10/00/000	-
	24 26 CAMERA: PENROSE ADC	J522_MLB_B_9.0	09/17/2020	76 89		J522_MLB_B_9.0	09/17/2020	128 143 SYNONYMS		RADIO_REV	10/00/000	-
	25 27 CAMERA: B2B STROBE & MISC	J522_MLB_B_9.0	09/17/2020	77 90		J522_MLB_B_9.0	09/17/2020	129 144 MLB ADJUSTABLES		RADIO_RE	10/00/000	-
	26 28 CAMERA: B2B FRONT	J522_MLB_B_9.0	09/17/2020	78 91	ALIASES: BB/WLAN/BT	J522_MLB_B_9.0	09/17/2020	130 145 MMW		RADIO_RE	y_3.37 10/08/2020	-
	27 29 CAMERA: STROBE	J522_MLB_B_9.0	09/17/2020	79 92	ALIASES: J517/J522 DIFF	J522_MLB_B_9.0	09/17/2020	131 146 MMW 1V9 LDO		RADIO_RE	v_3.37 10/08/2020	_
	28 30 AUDIO: BORRIS BOOST	J522_MLB_B_9.0	09/17/2020	80 93	TEST: TPS/MECH	J522_MLB_B_9.0	09/17/2020	132 147 MMW_MOZART_CONN		RADIO_RE	v_3.37 10/08/2020	_
	29 31 AUDIO: DMIC B2B & FILTERS	J522_MLB_B_9.0	09/17/2020	81 94	TEST: TPS ADDITIONAL	J522_MLB_B_9.0	09/17/2020	133 148 MMW_CHOPIN_CONN		RADIO_REV	v_3.37 10/08/2020	-
	30 32 AUDIO: SPEAKER AMPS (CNL)	J522_MLB_B_9.0	09/17/2020	82 95		J522_MLB_B_9.0	09/17/2020	134 149 PSIM FILTERS		RADIO_RE		
В	31 33 AUDIO: SPEAKER AMPS (CNR)	J522_MLB_B_9.0	09/17/2020	83 98		J522_MLB_B_9.0	09/17/2020	135 150 UAT ANT SYSTEM		RADIO_REV		В
	32 34 AUDIO: SPEAKER AMPS (FHL) 33 35 AUDIO: SPEAKER AMPS (FHR)	J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020	84 99 85 100		J522_MLB_B_9.0 RADIO_REV_3.37	10/08/2020	136 151 LAT ANT SYSTEM 137 152 J5xx_Only		RADIO_RET	10/00/000	
	34 36 IO: ACE PERIPHERALS	J522_MLB_B_9.0	09/17/2020		CONSTRAINTS: Impedance Tables	RADIO_REV_3.37 RADIO_REV_3.37	10/08/2020			VADTO_KE,		•
	35 37 IO: IOFLEX B2B & SIM B2B	J522_MLB_B_9.0	09/17/2020		CONSTRAINTS: RF Physical	RADIO_REV_3.37	10/08/2020					
	36 38 IO: ACE USB-C CONTROLLER	J522_MLB_B_9.0	09/17/2020	88 103	CONSTRAINTS : RF Spacing	RADIO_REV_3.37	10/08/2020					
	37 39 IO: USB-C HIGH SPEED	J522_MLB_B_9.0	09/17/2020	89 104	1 CONSTRAINTS: Power	RADIO_REV_3.37	10/08/2020					
	38 40 IO: PARROT, LT, ACE/BSB FLASH	J522_MLB_B_9.0	09/17/2020	90 105	CONSTRAINTS : 90ohm	RADIO_REV_3.37	10/08/2020					
$\overline{}$	39 41 PEARL: RIGEL DRIVER	J522_MLB_B_9.0	09/17/2020	91 106	CONSTRAINTS: Misc	RADIO_REV_3.37	10/08/2020					
	40 42 PEARL: B2B TITUS + JULIET	J522_MLB_B_9.0	09/17/2020		7 PMIC: BUCKs	RADIO_REV_3.37	10/08/2020					
	41 43 PEARL: B2B ROSALINE + MISC	J522_MLB_B_9.0	09/17/2020		PMIC: LDOS	RADIO_REV_3.37	10/08/2020		SCI	H AND BOAR	D P/N	
	42 45 DISPLAY: B2B CONN 43 46 DISPLAY: EDP SUPPORT	J522_MLB_B_9.0	09/17/2020		PMIC: CLOCKS & CONTROL BB: POWER	RADIO_REV_3.37	10/08/2020	PART# QTY DESCRI	PTION	REFERENCE	E DESIGNATOR(S) CRITICAL BOM	OPTION (MAX.) (MAX.)
Α	44 47 2DBL: LUME BOOST	J522_MLB_B_9.0 J522_MLB_B_9.0	09/17/2020		BB: GND	RADIO_REV_3.37 RADIO_REV_3.37	10/08/2020	051-05915 1 SCHEM,			SCH1 CRITICAL PCB1 CRITICAL	Market, Allen
	45 48 2DBL: B2B CONN	J522_MLB_B_9.0	09/17/2020		2 BB: GPIOS & QLINK	RADIO_REV_3.37	10/08/2020	820-02172 1 PCBF,M	ΣΣ,,UΣ,,UΣ,δ		PCB1 CRITICAL	
	46 49 J518 BOM Option	J517_WIFI_MLB_0.36	09/16/2020	98 113	3 XCVR POWER_1	RADIO_REV_3.37	10/08/2020		SYNC N	MASTER=J522_MLB_B_1.16.	TABLE OF CONTENTS	SYNC_DATE=11/18/2019 A
	47 50 PERONI	J517_WIFI_MLB_0.36	09/16/2020	99 114	4 XCVR POWER_2	RADIO_REV_3.37	10/08/2020			ING TITLE	SCHEM, MLB-B, NY, J518	
	48 51 J518 5G rFEM (UAT)	J517_WIFI_MLB_0.36	09/16/2020	100 115	XCVR DIGITAL & GND	RADIO_REV_3.37	10/08/2020				,	
	49 52 J518 5G rFEM (LAT)	J517_WIFI_MLB_0.36	09/16/2020	101 116	5 XCVR RF	RADIO_REV_3.37	10/08/2020	PACKAGING OPTIONS				
	50 53 2G4 rFEM (UAT)	J517_WIFI_MLB_0.36	09/16/2020		7 QET_DISCRETE_0	RADIO_REV_3.37	10/08/2020	PACKAGING OPTIONS PACK OPTIONS TO INCLUDE IN NETLIST				
	51 54 2G4 rFEM (LAT) 52 55 J518 Front End	J517_WIFI_MLB_0.36	09/16/2020		QET_DISCRETE_1	RADIO_REV_3.37	10/08/2020	J518				
	52 55 J518 Front End	J517_WIFI_MLB_0.36	09/16/2020	104 119	ערארע ס	RADIO_REV_3.37	10/08/2020					
L	BOM_COST_GROUP=NO_COST_ITEMS	7	^									
	<u> </u>	1	6		5	4		3	2		1	

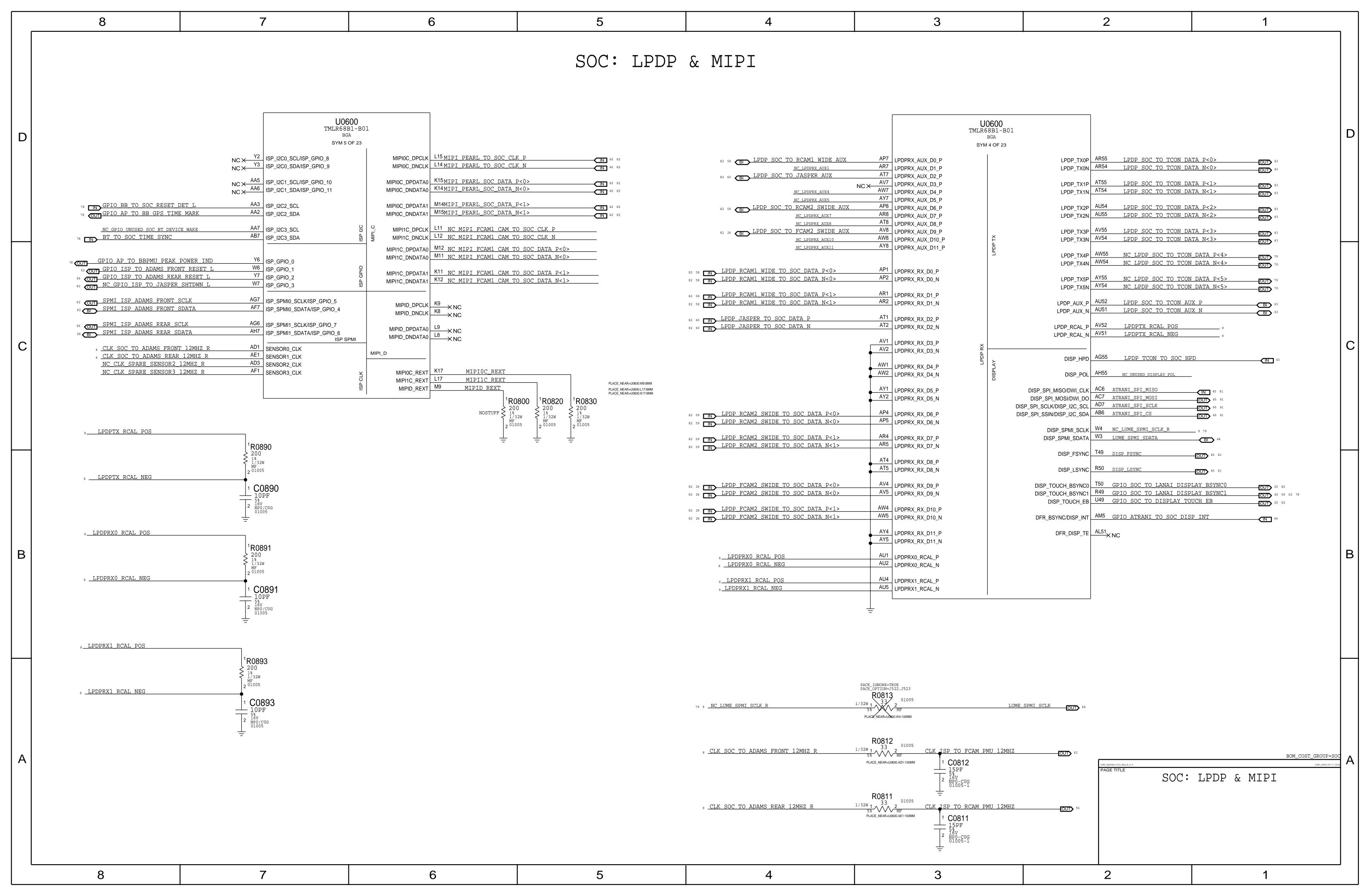


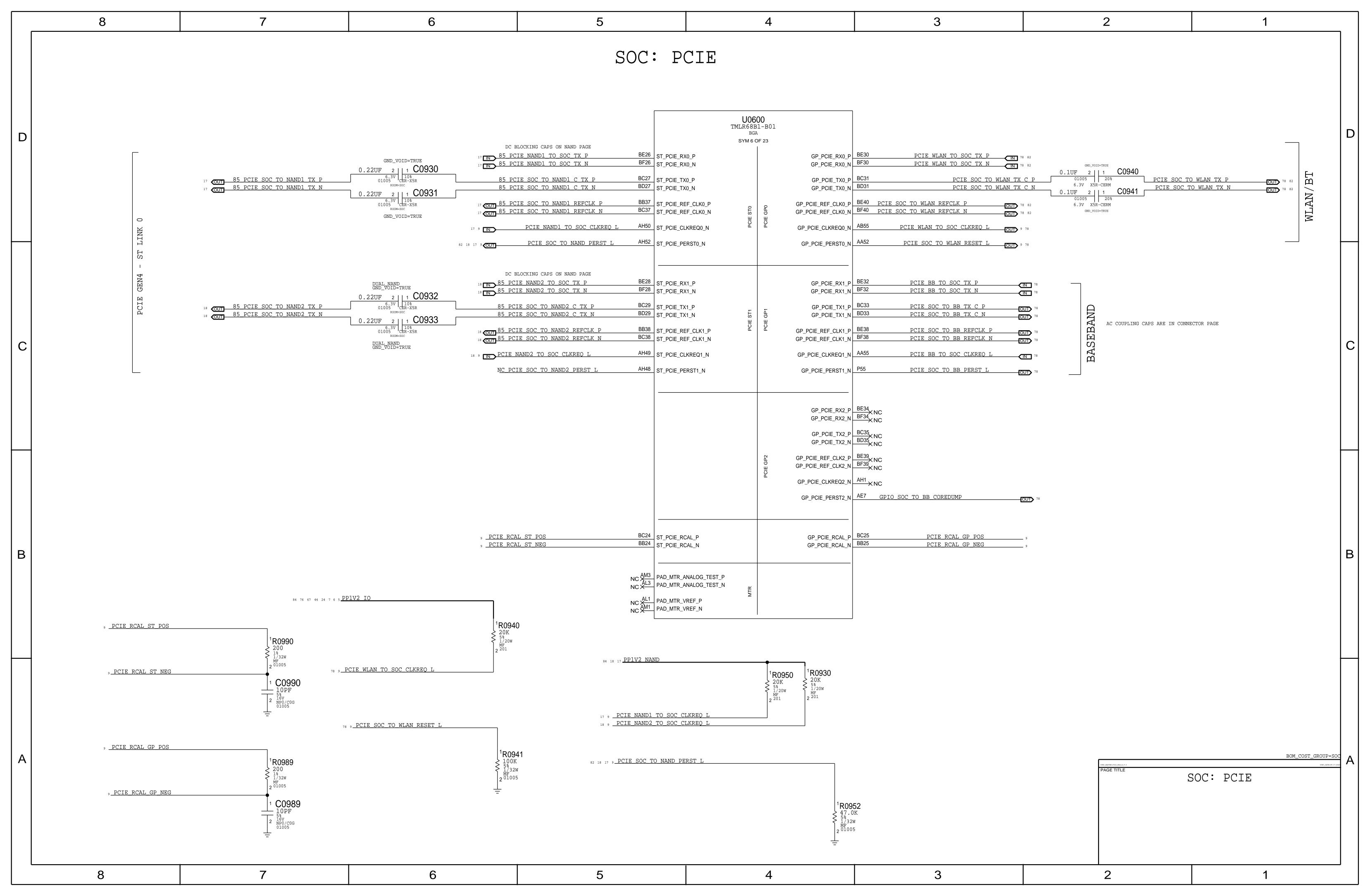


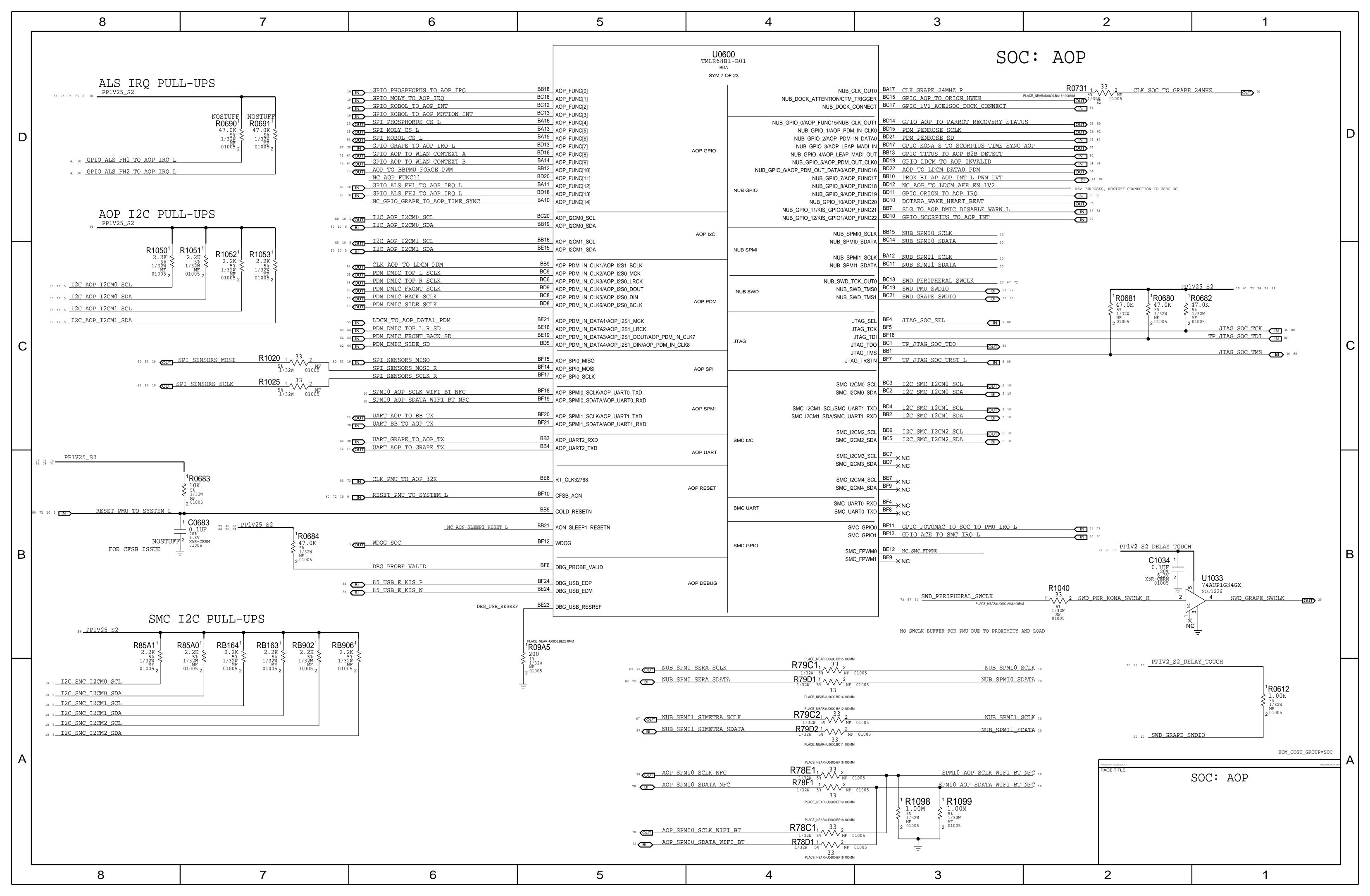


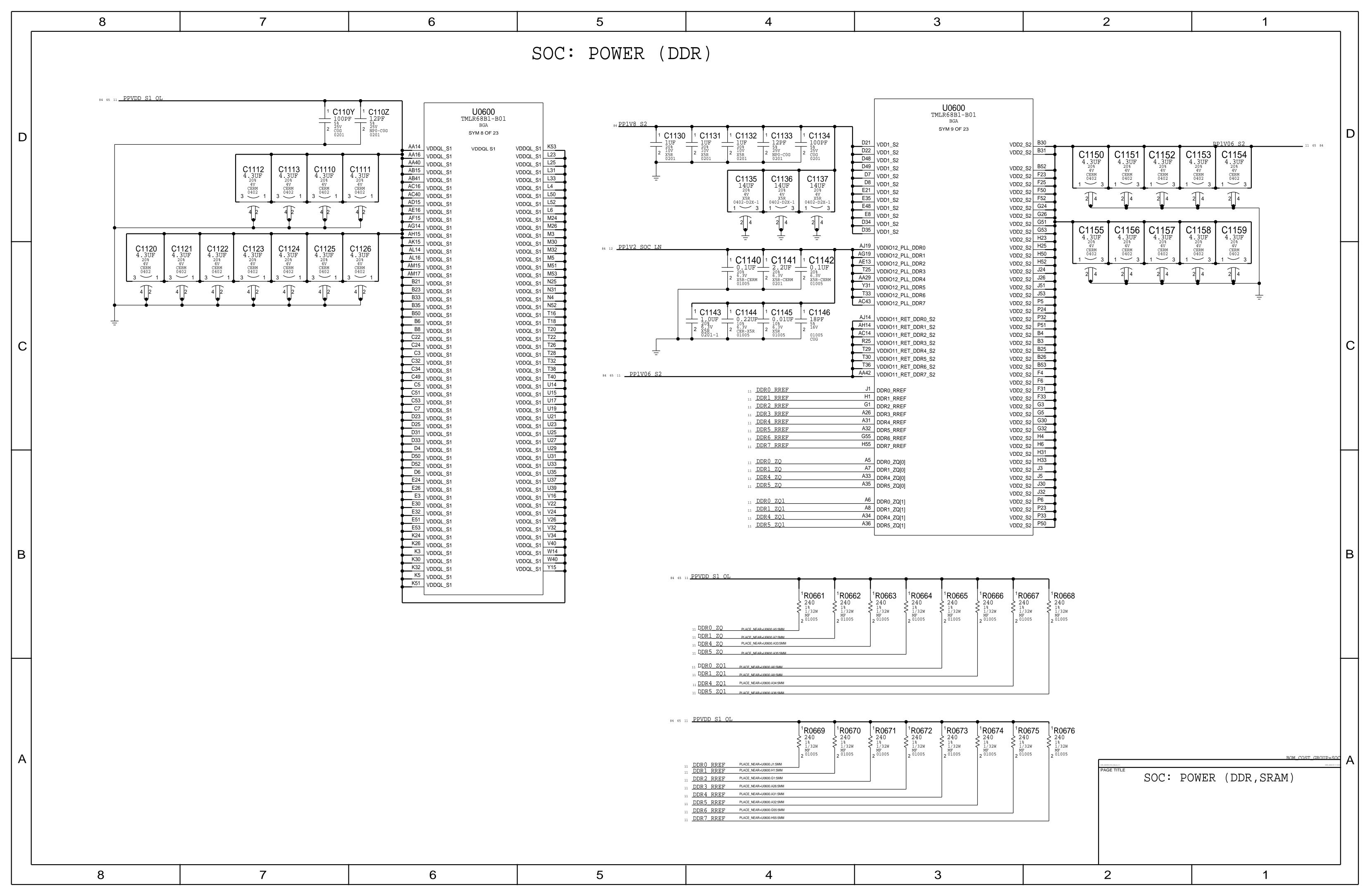


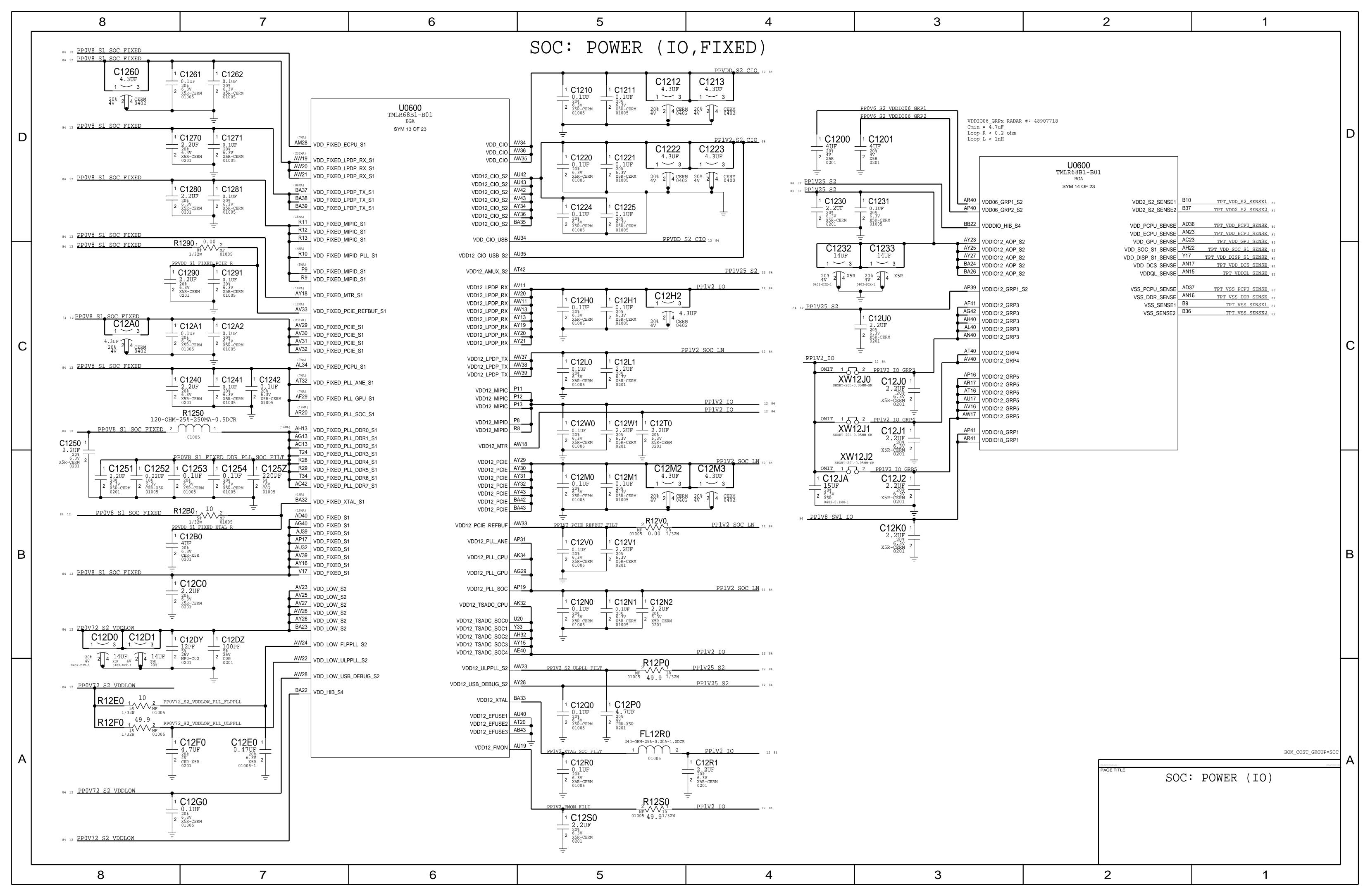


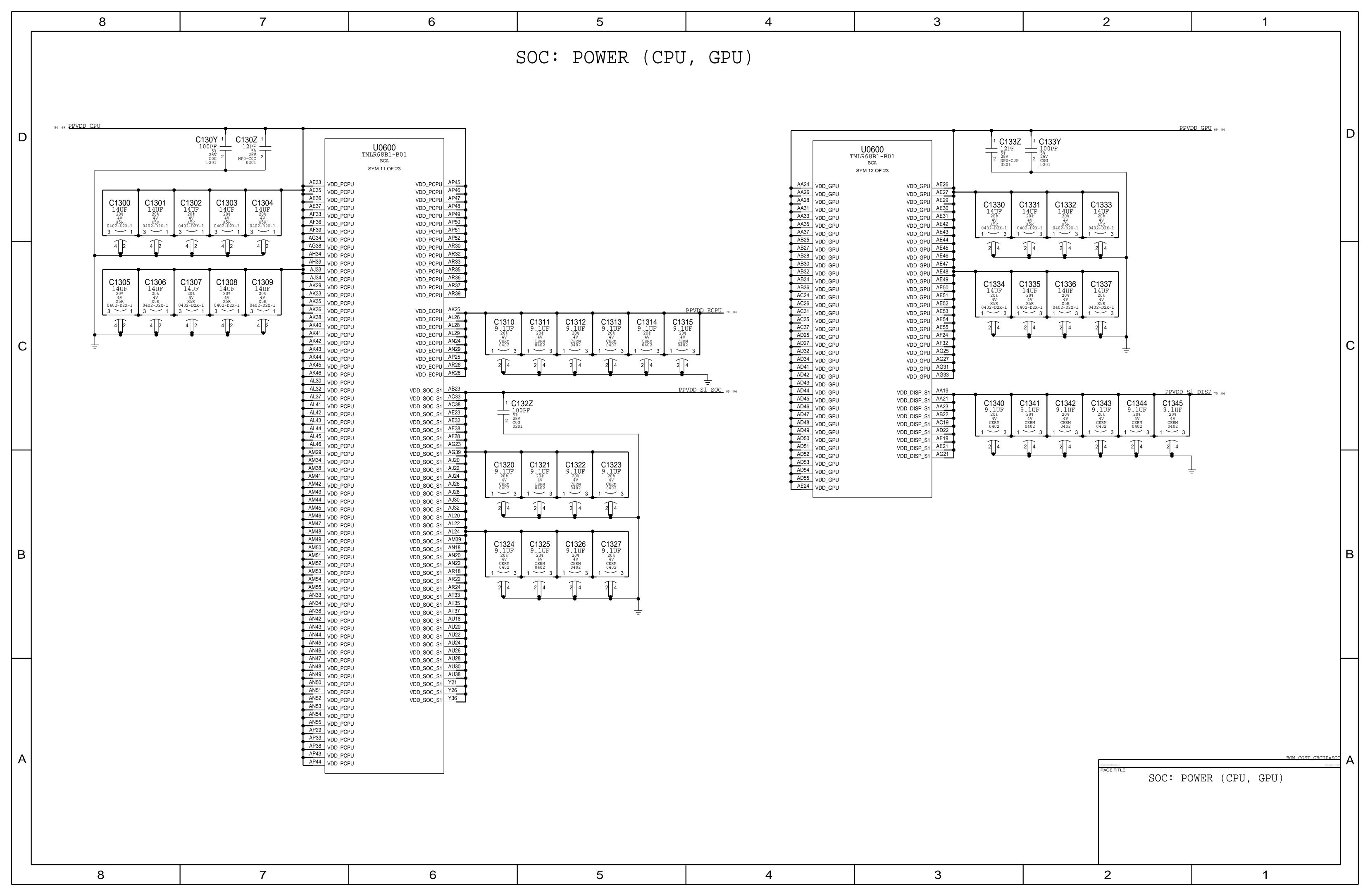


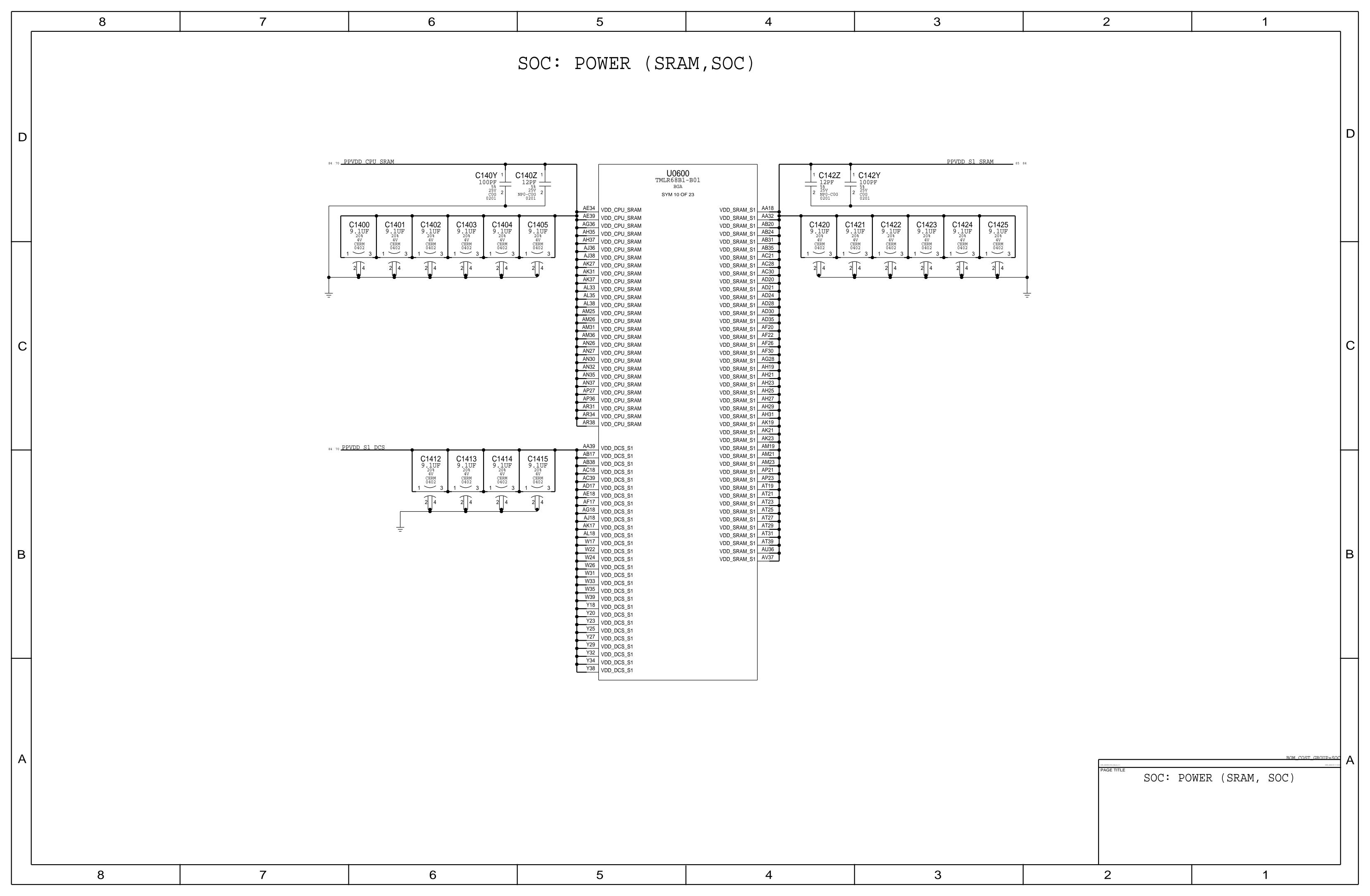


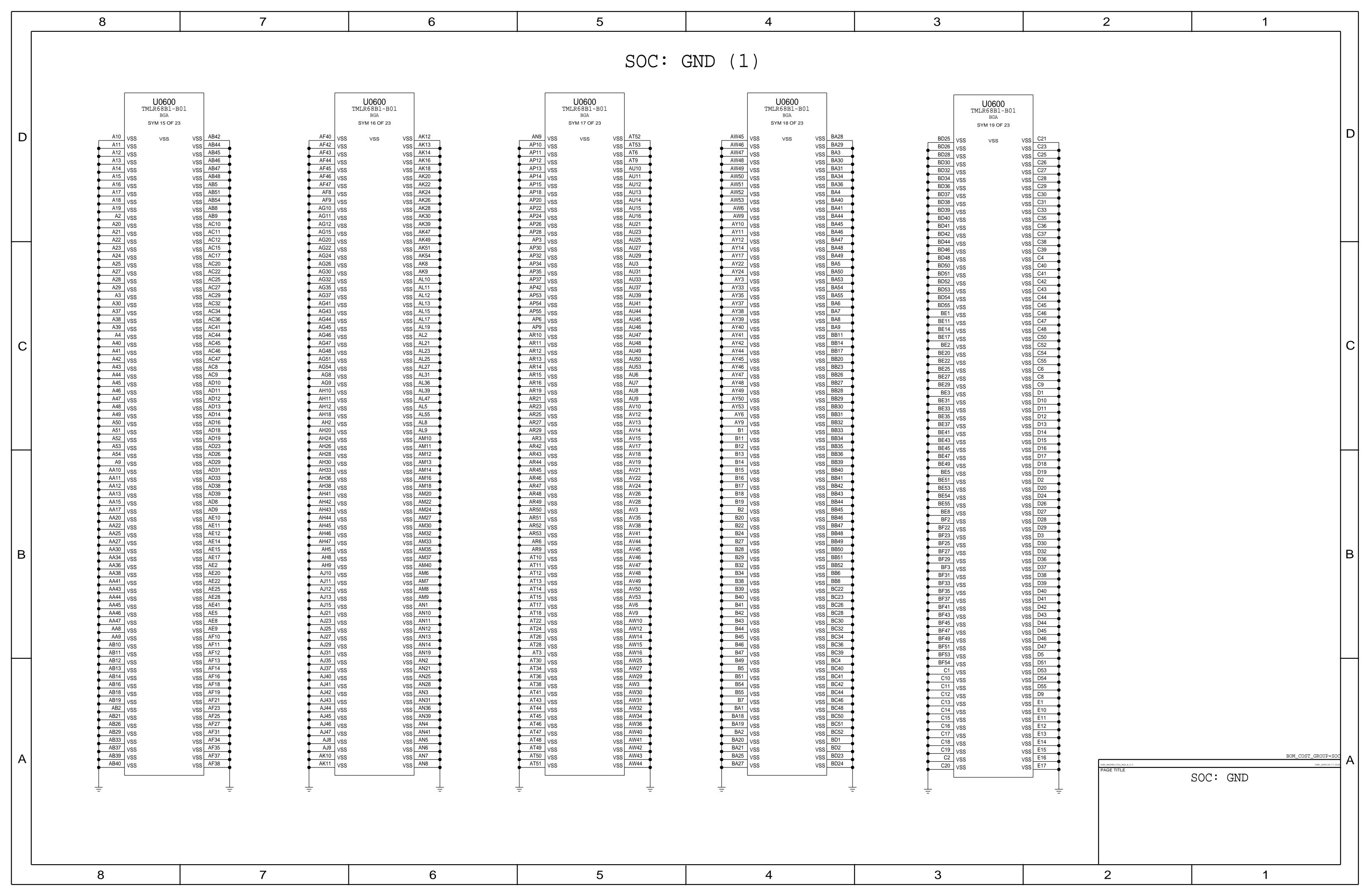


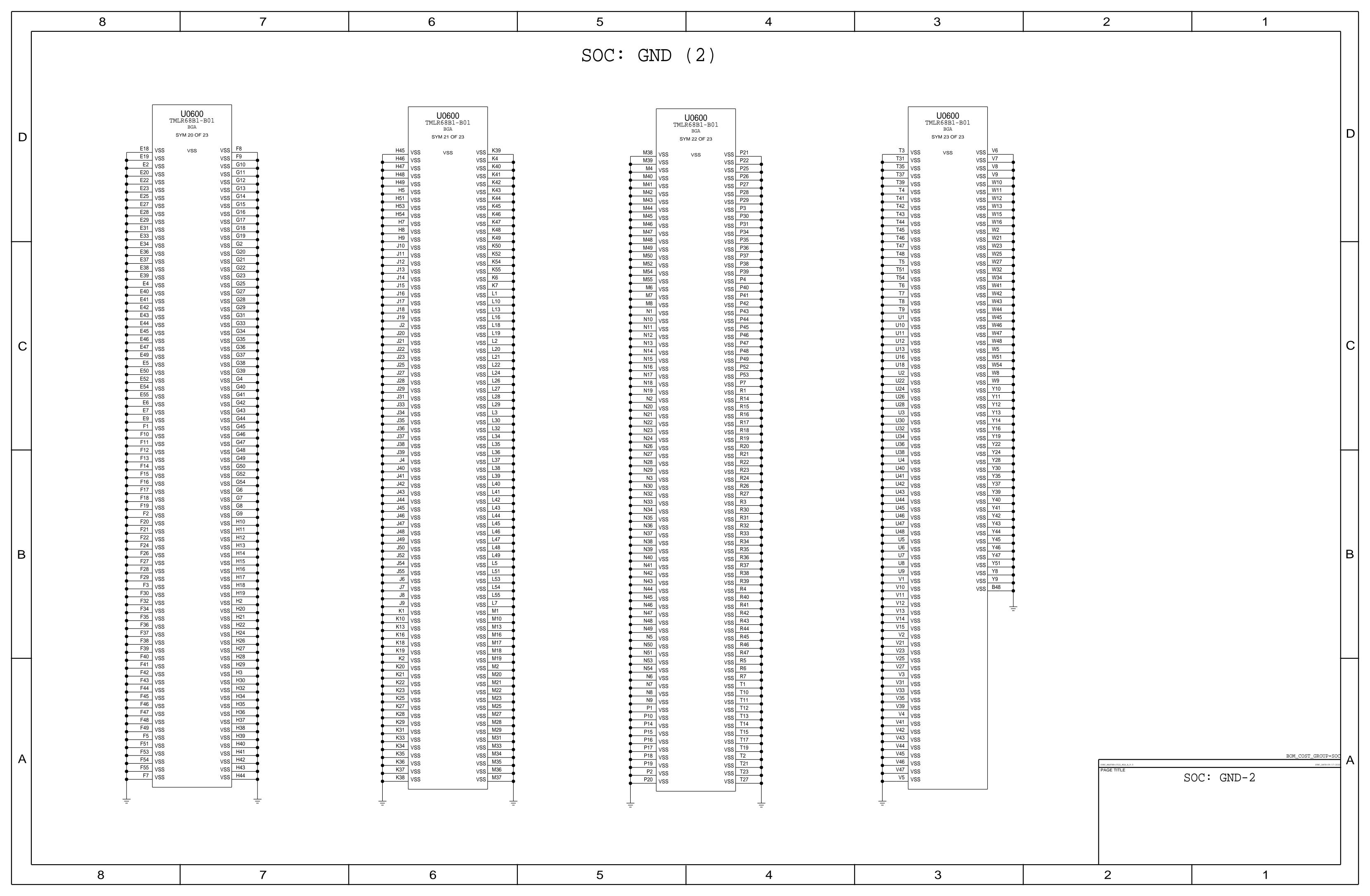


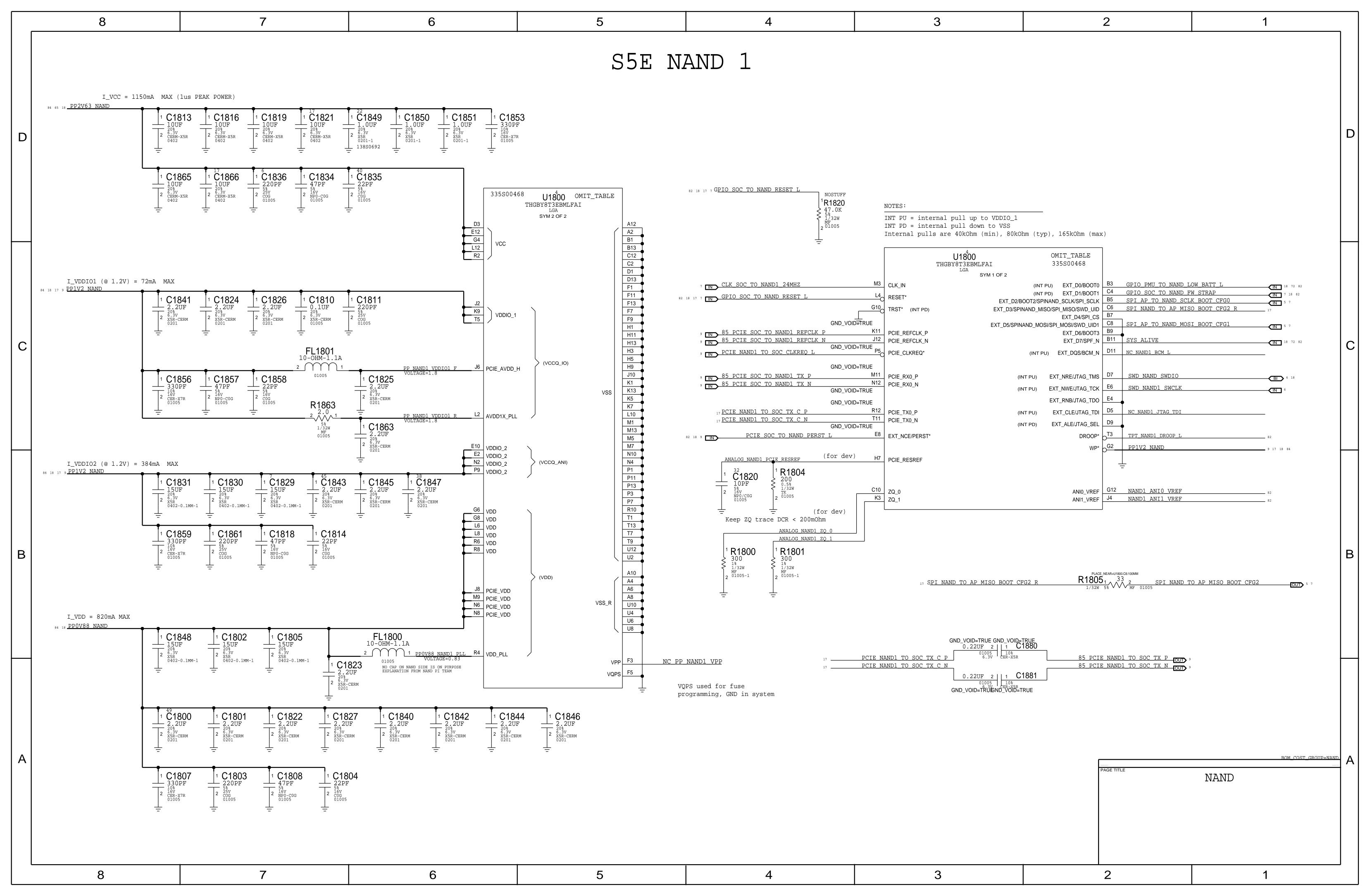


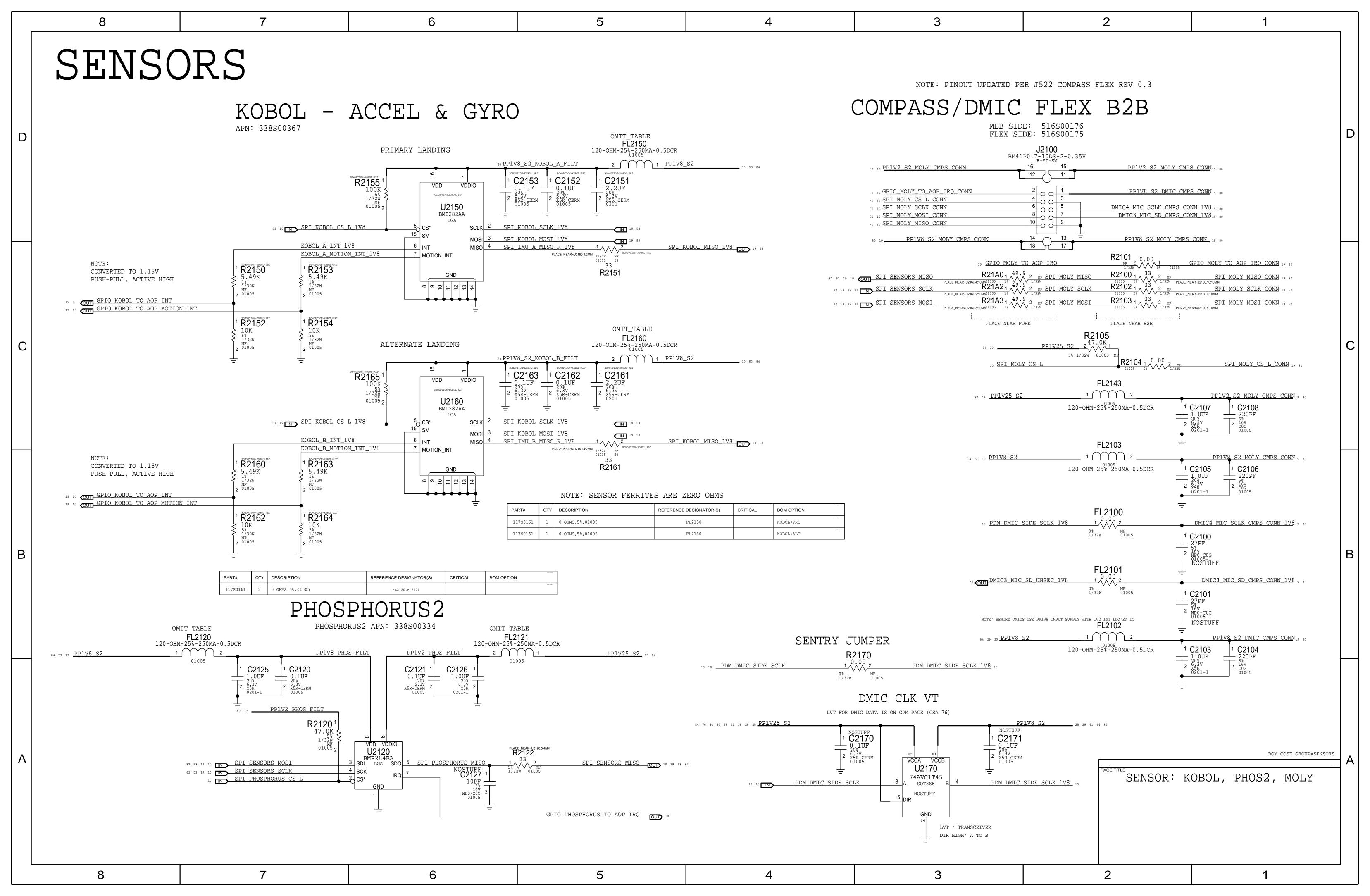


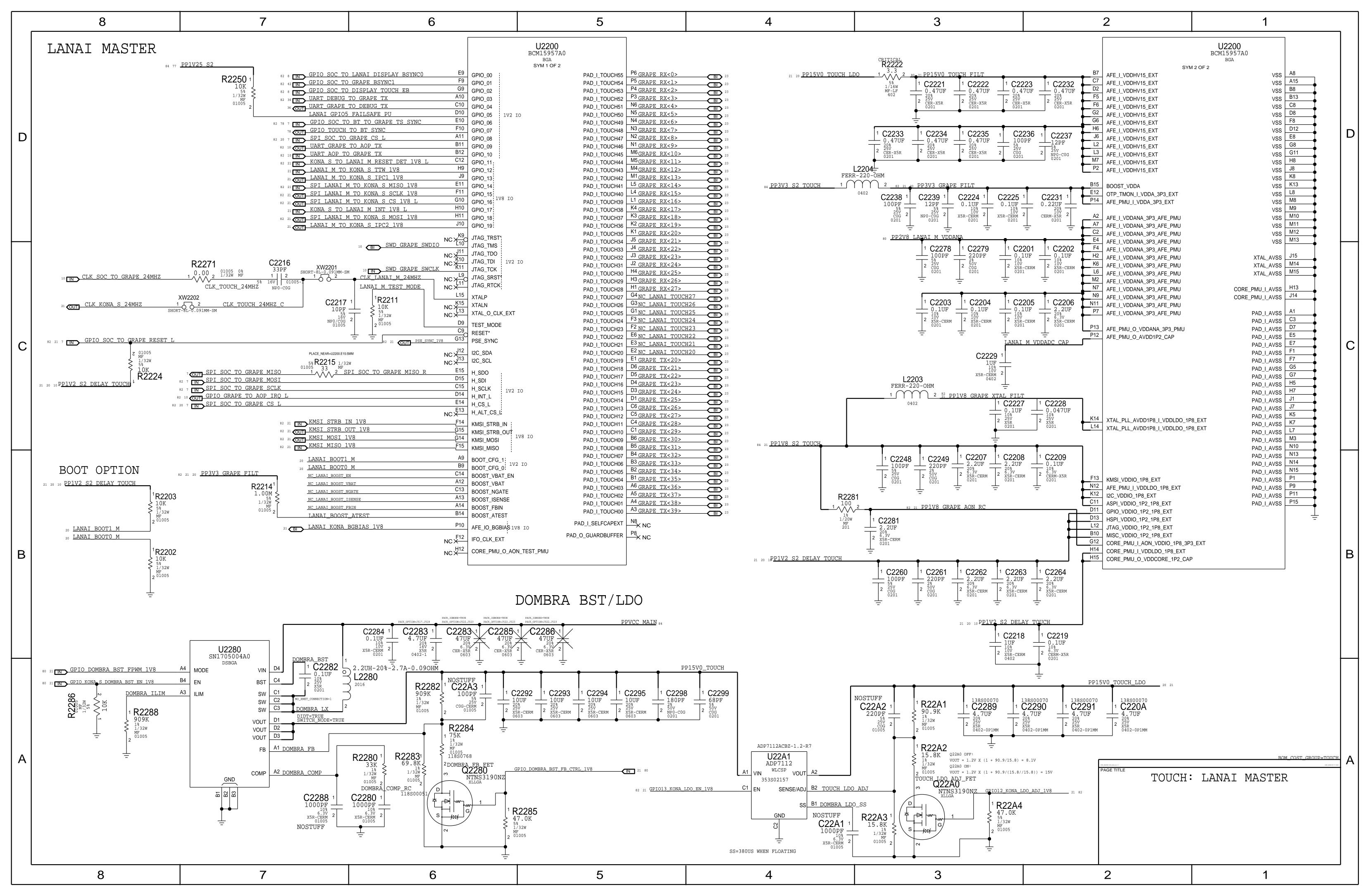


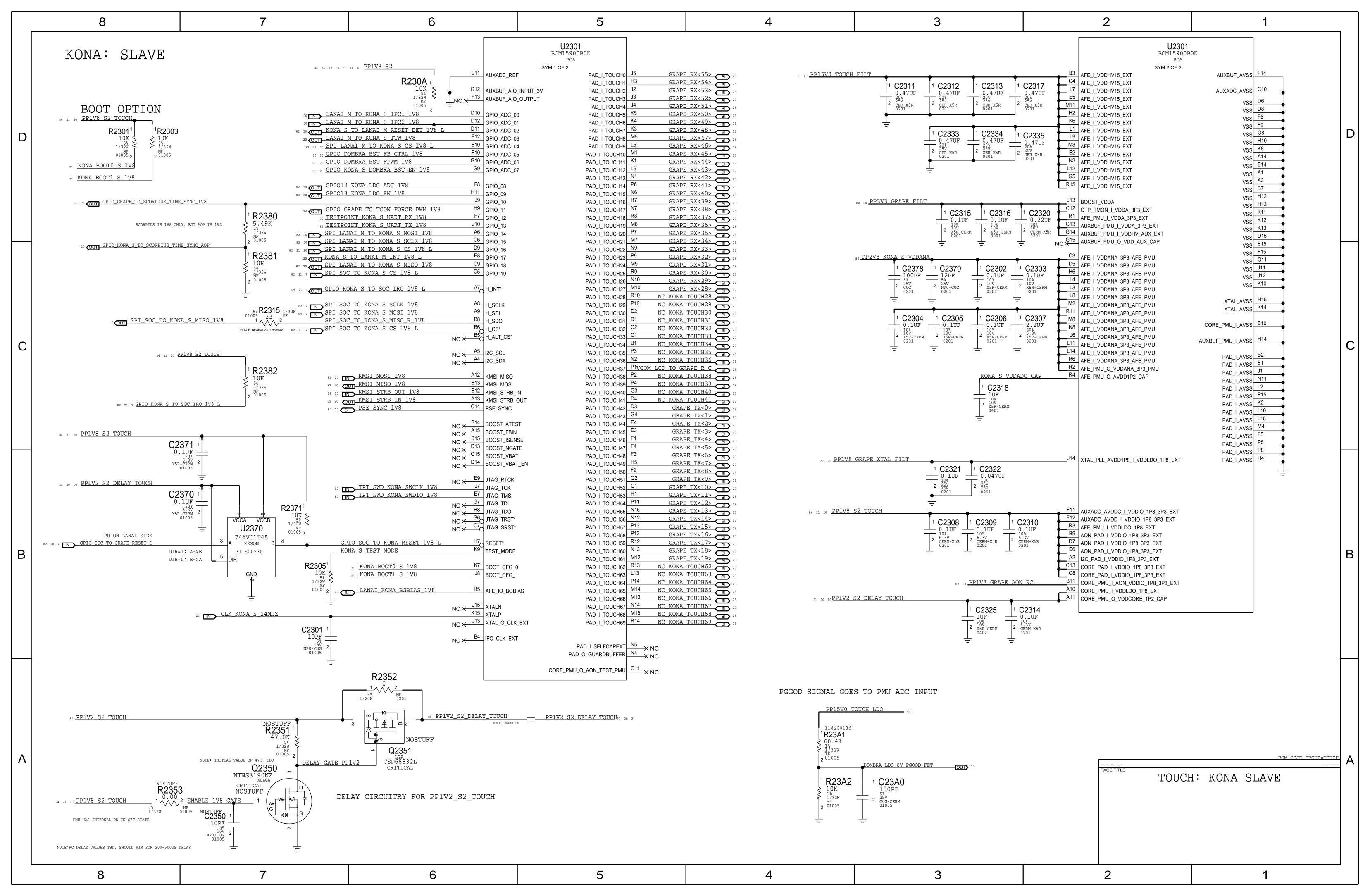


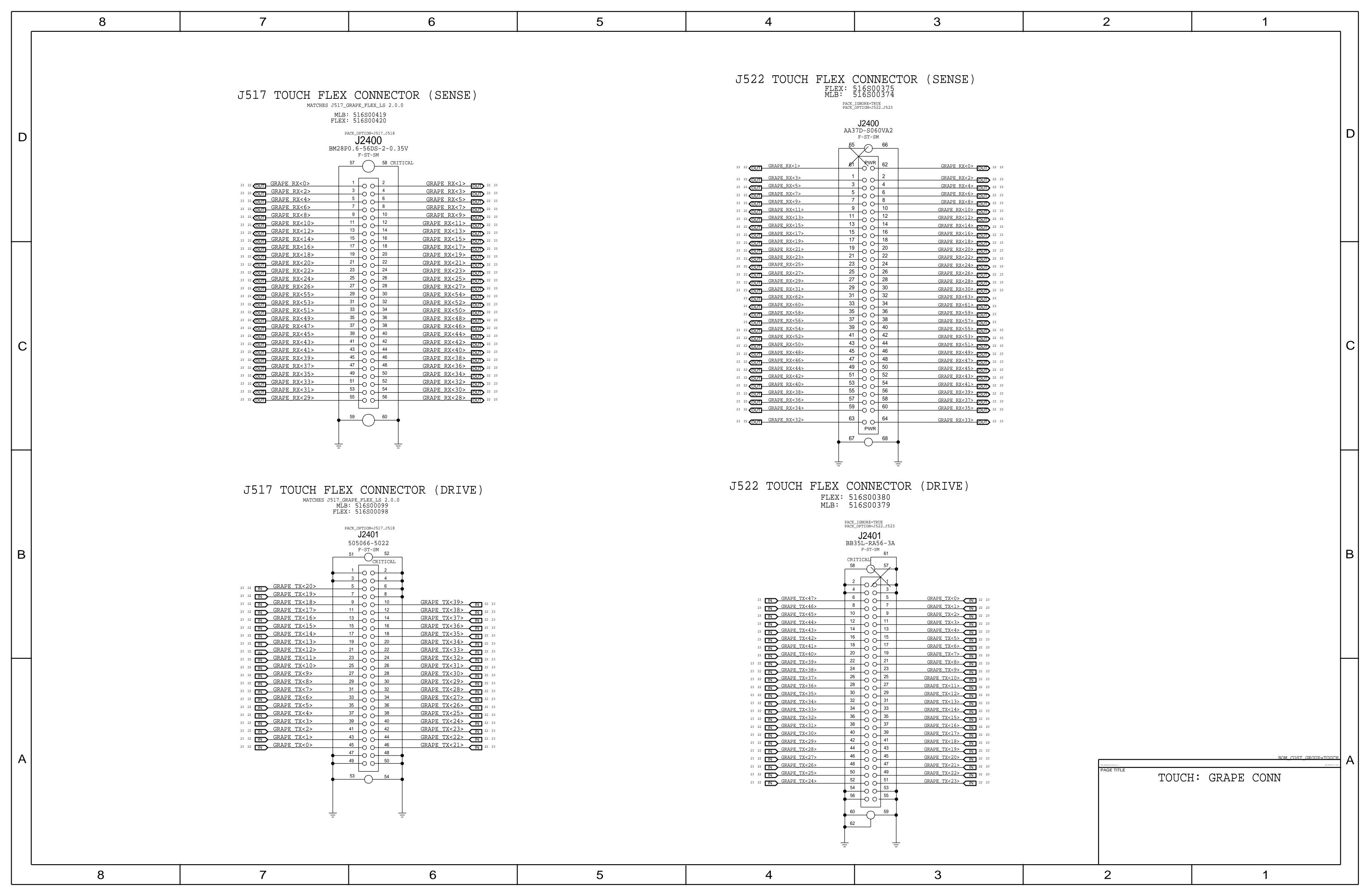




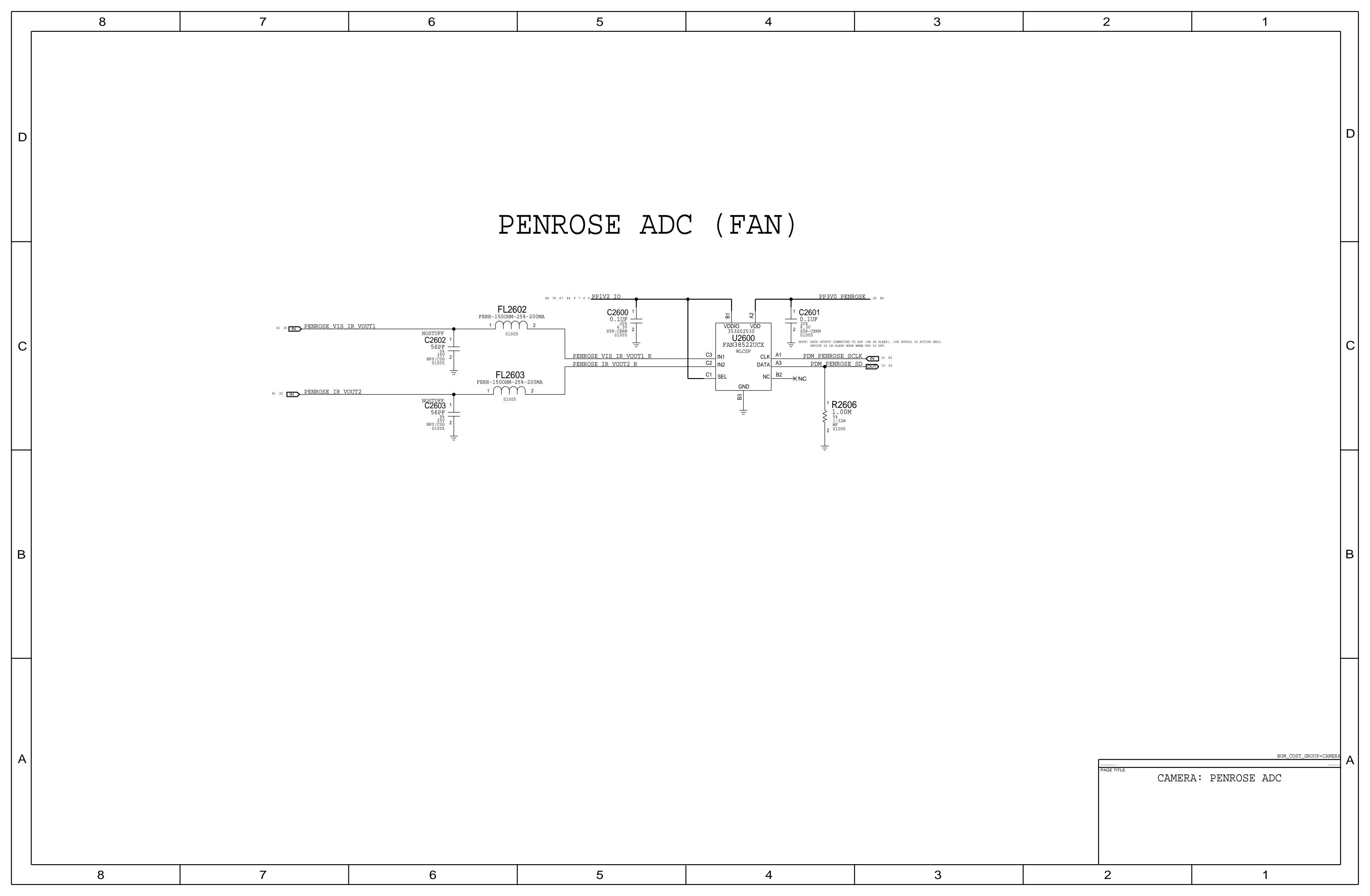


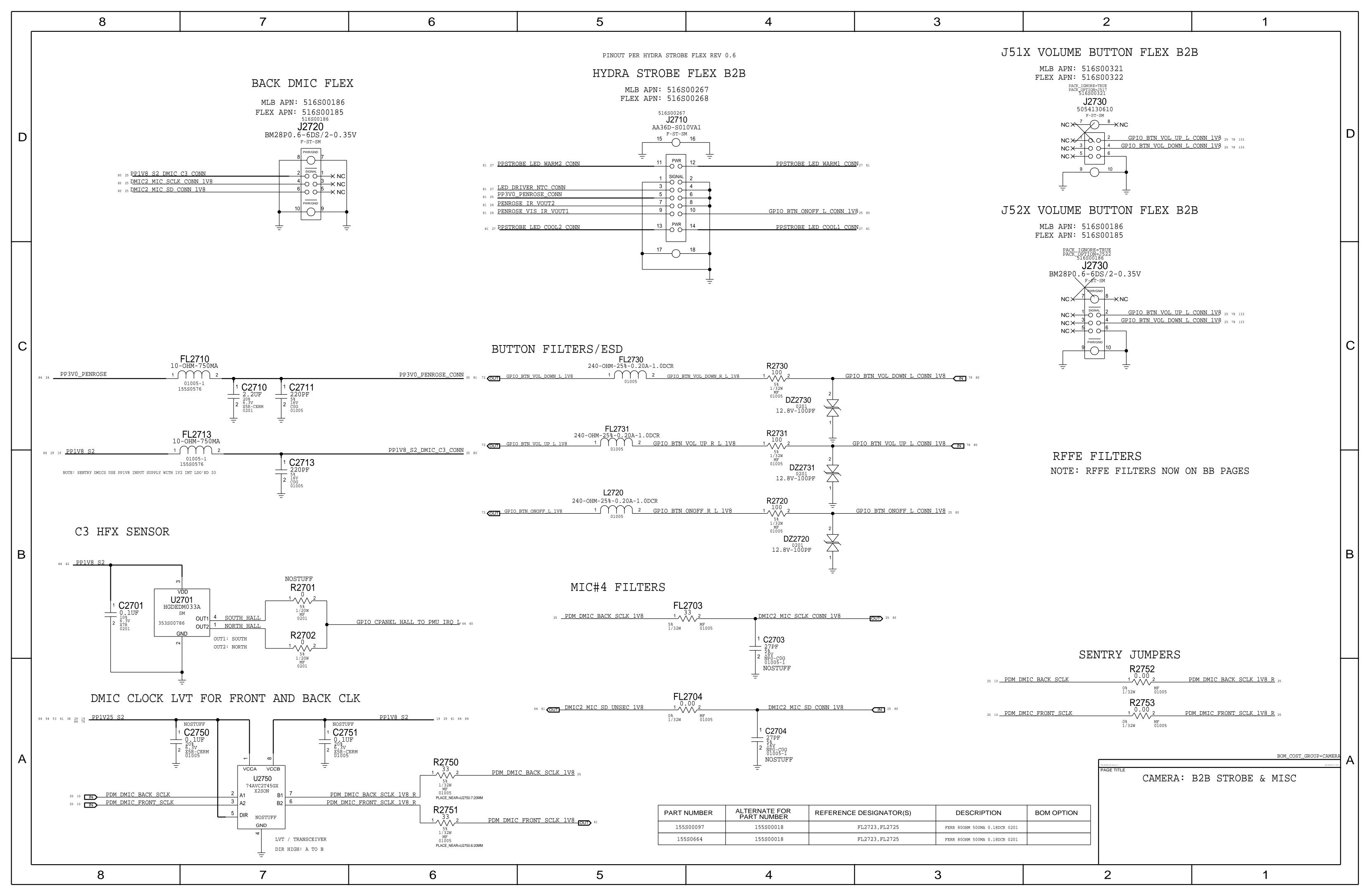


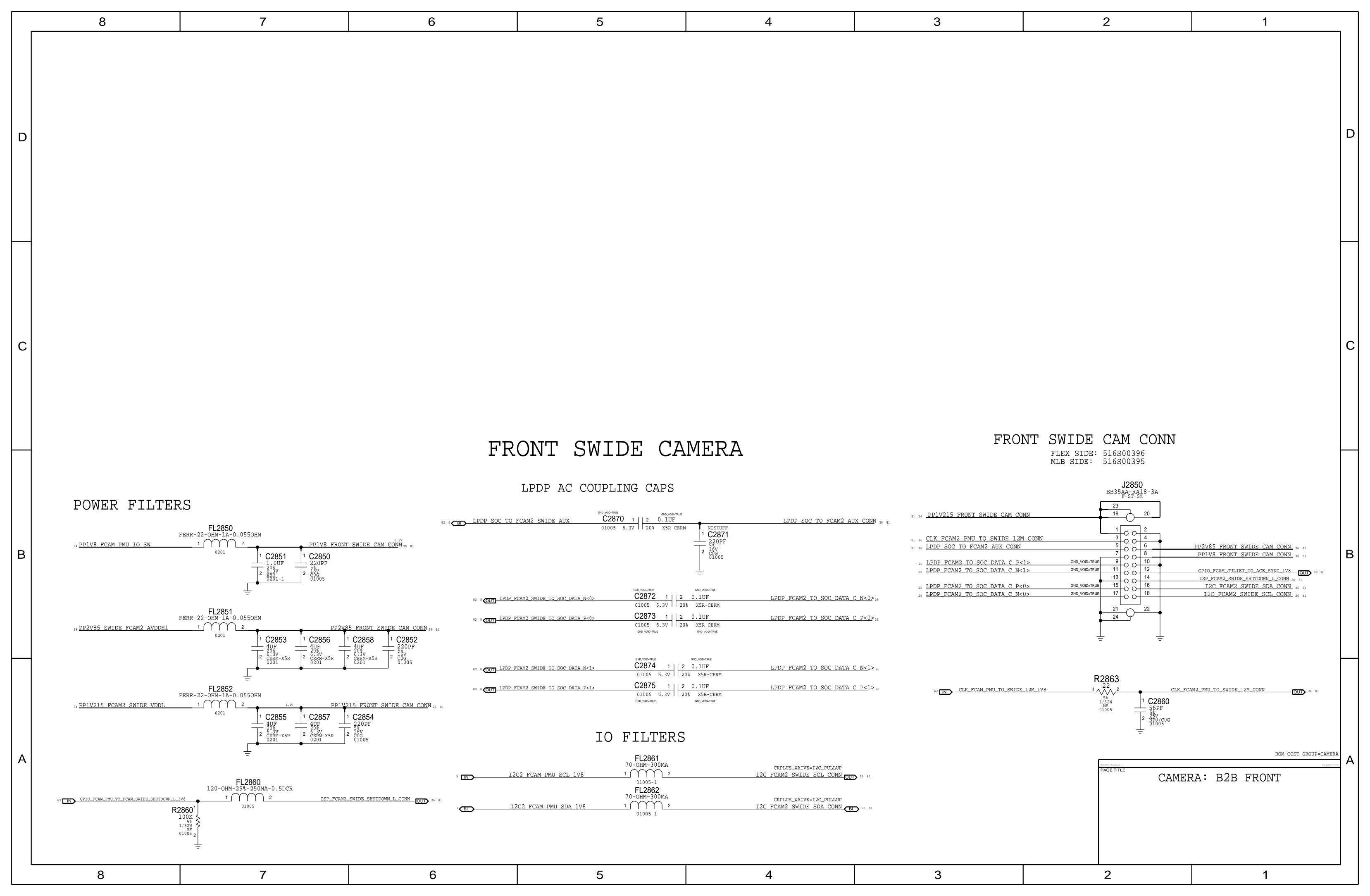


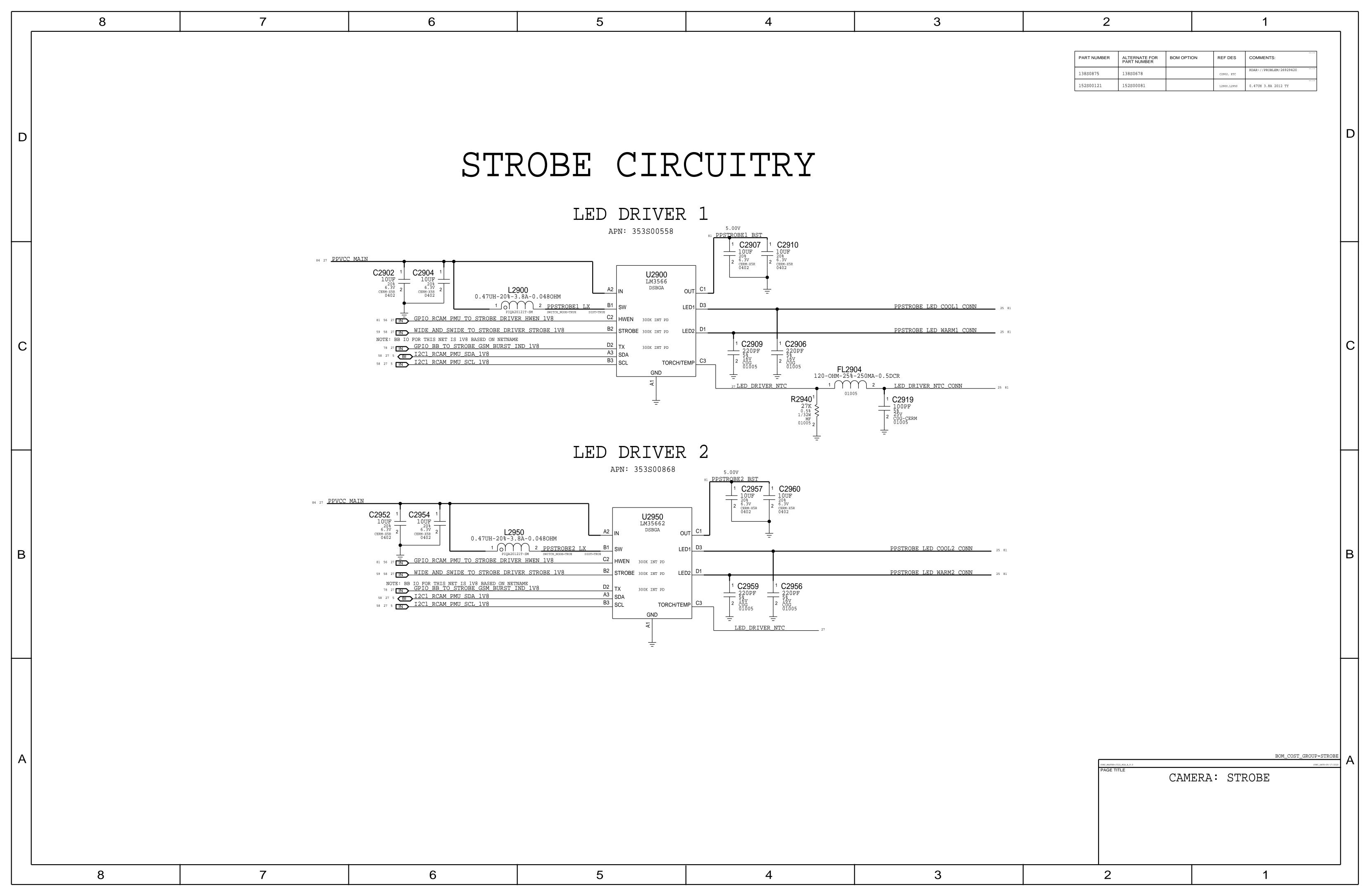


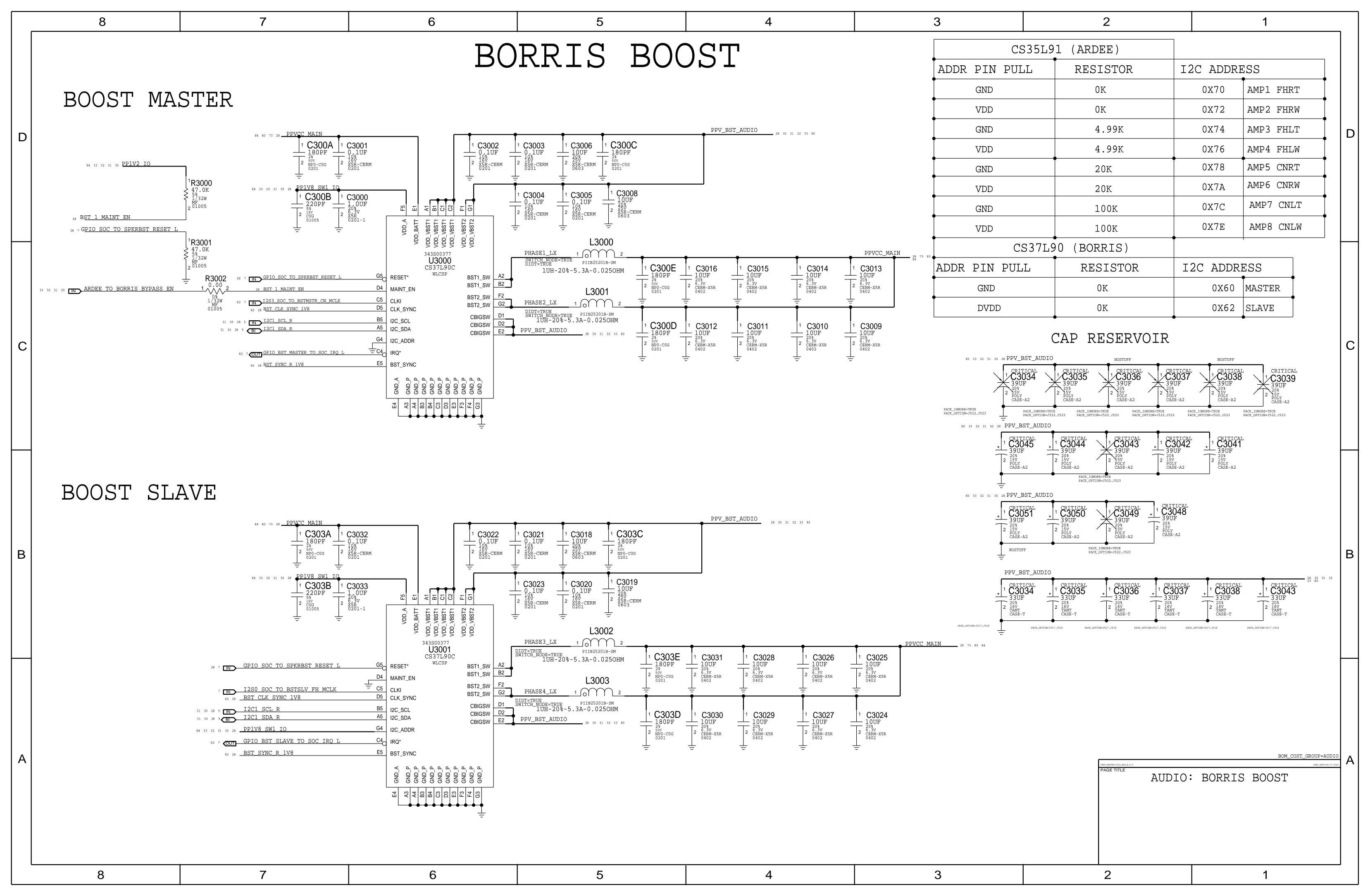
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J517 LANAI RX/TX ALIAS		J517 KONA RX/TX ALIA	AS	J522 LANAI F	RX/TX ALIAS	J522 KONA RX/TX ALIAS		
23 20 BI GRAPE RX<0> PACK_OPTION=J51:	7,J518 — GRAPE RX<0> MAKE_BASE=TRUE IN 22 23 23	21 BI GRAPE RX<55> 21 BI GRAPE RX<55> 21 BI GRAPE RX<54> 21 BI GRAPE RX<54> 21 BI GRAPE RX<55> 21 BI GRAPE RX<55> 22 BI GRAPE RX<53> 23 BI GRAPE RX<53> 24 BI GRAPE RX<52> 25 PACK_OPTION=J517,J518 26 GRAPE RX<52> 27 GRAPE RX<52> 28 GRAPE RX<52> 29 CRAPE RX<52> 29 CRAPE RX<52> 20 CRAPE RX<52> 20 CRAPE RX<52> 21 CRAPE RX<52> 21 CRAPE RX<52> 22 CRAPE RX<52> 23 CRAPE RX<52> 24 CRAPE RX<52> 25 CRAPE RX<52> 26 CRAPE RX<52> 27 CRAPE RX<52> 28 CRAPE RX<52> 29 CRAPE RX<52> 20 CRAPE RX<52> 20 CRAPE RX<52> 21 CRAPE RX<52> 21 CRAPE RX<52> 22 CRAPE RX<52> 23 CRAPE RX<52> 24 CRAPE RX<52> 25 CRAPE RX<52> 26 CRAPE RX<52> 27 CRAPE RX<52> 28 CRAPE RX<52> 29 CRAPE RX<52> 20 CRAPE RX<52> 21 CRAPE RX<52> 22 CRAPE RX<52> 23 CRAPE RX<52> 24 CRAPE RX<52> 25 CRAPE RX<52> 26 CRAPE RX<52> 27 CRAPE RX<52> 28 CRAPE RX<52> 29 CRAPE RX<52> 20 CRAPE	MAKE_BASE=TRUE	23 20 BI GRAPE RX<0> PACK_OPTION=JI 23 20 BI GRAPE RX<1> PACK_OPTION=JI 23 20 BI GRAPE RX<2> PACK_OPTION=JI 23 20 BI GRAPE RX<3> PACK_OPTION=JI	522, J523	BI GRAPE RX<54> PACK_OPTION=J522,J523 BI GRAPE RX<53> PACK_OPTION=J522,J523 BI GRAPE RX<52> PACK_OPTION=J522,J523	GRAPE RX<33> MAKE_BASE=TRUE IN 22 23 GRAPE RX<62> MAKE_BASE=TRUE IN 22 GRAPE RX<61> MAKE_BASE=TRUE IN 22 GRAPE RX<60> MAKE_BASE=TRUE IN 22	
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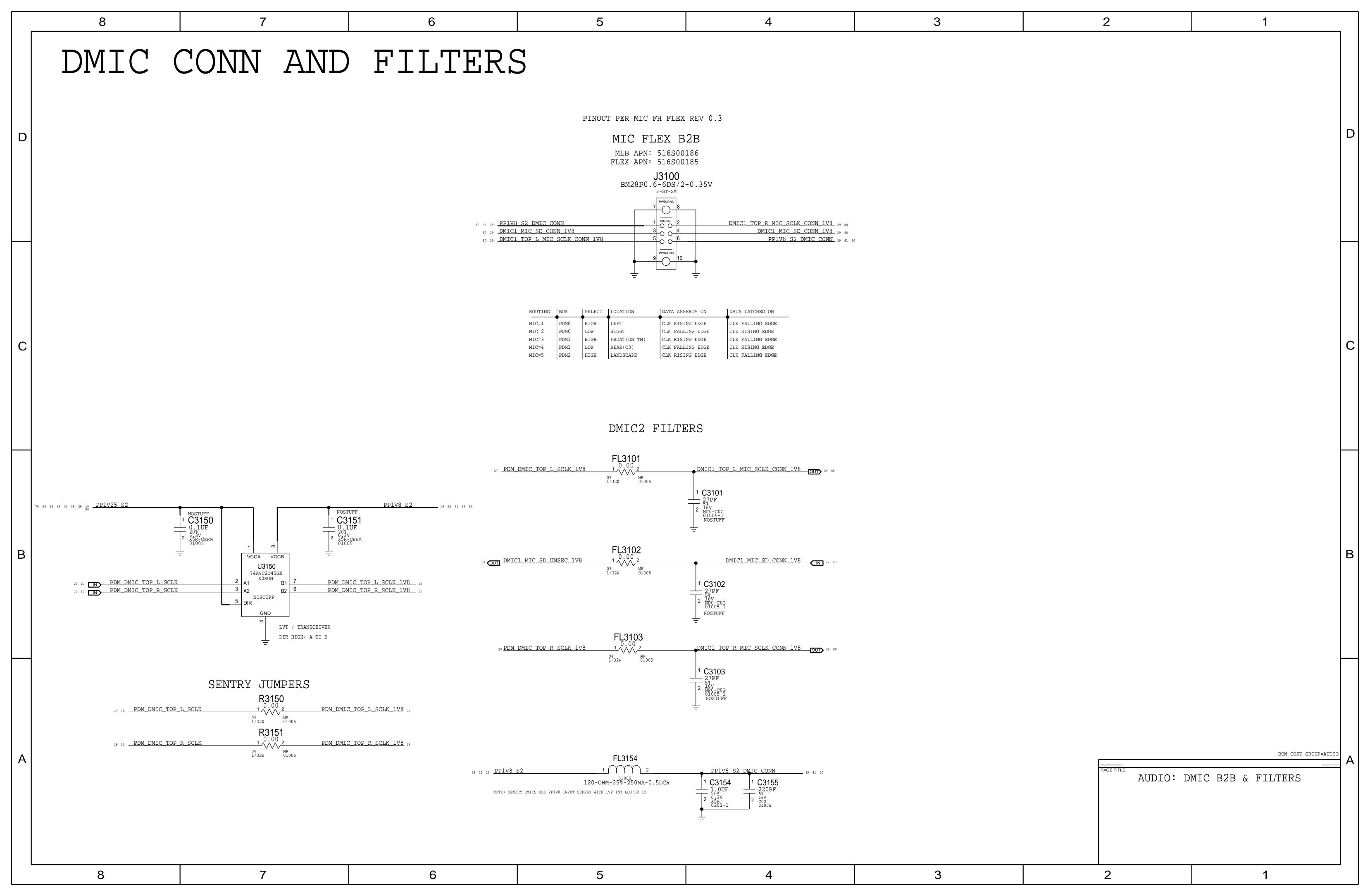


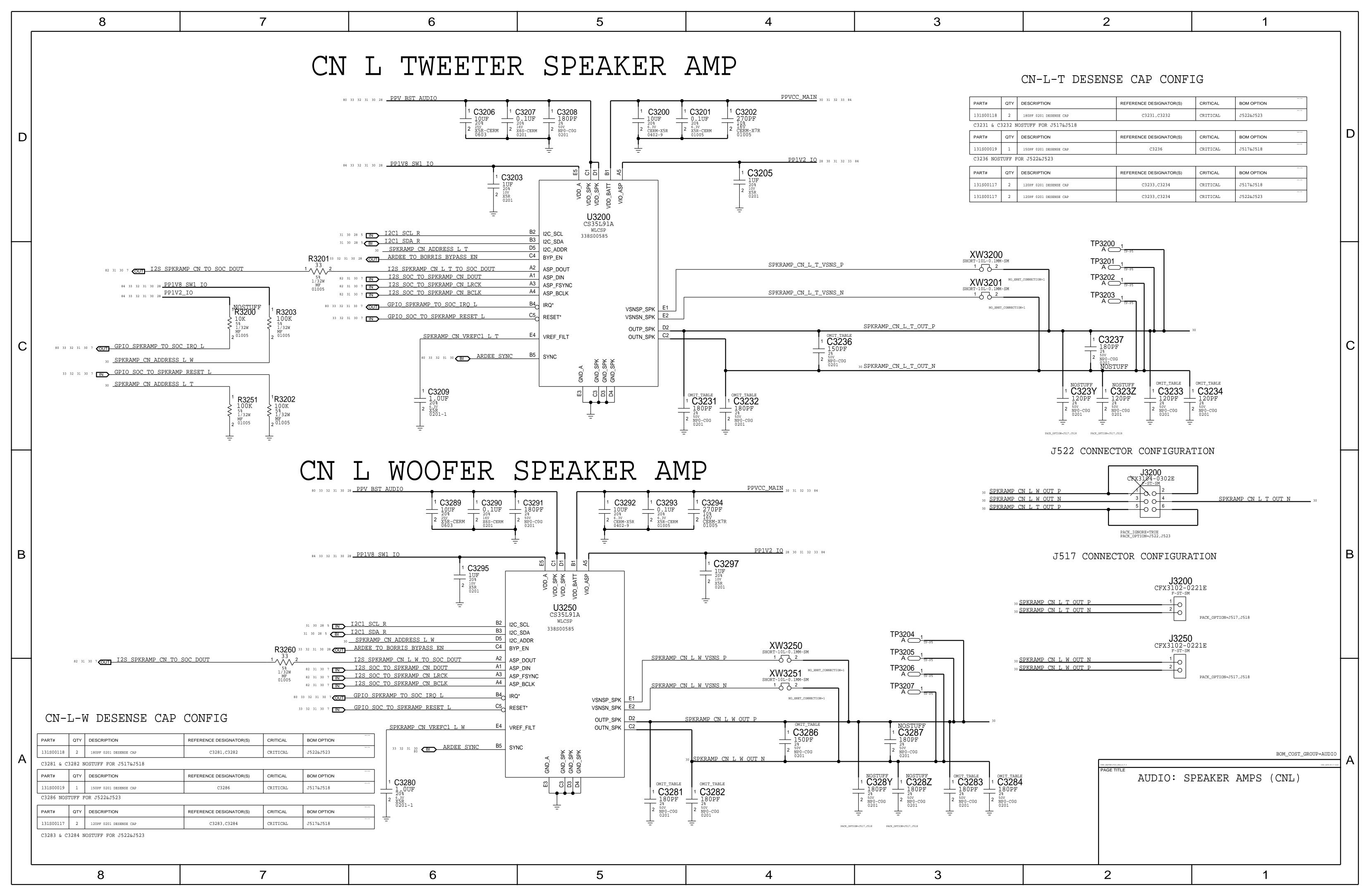


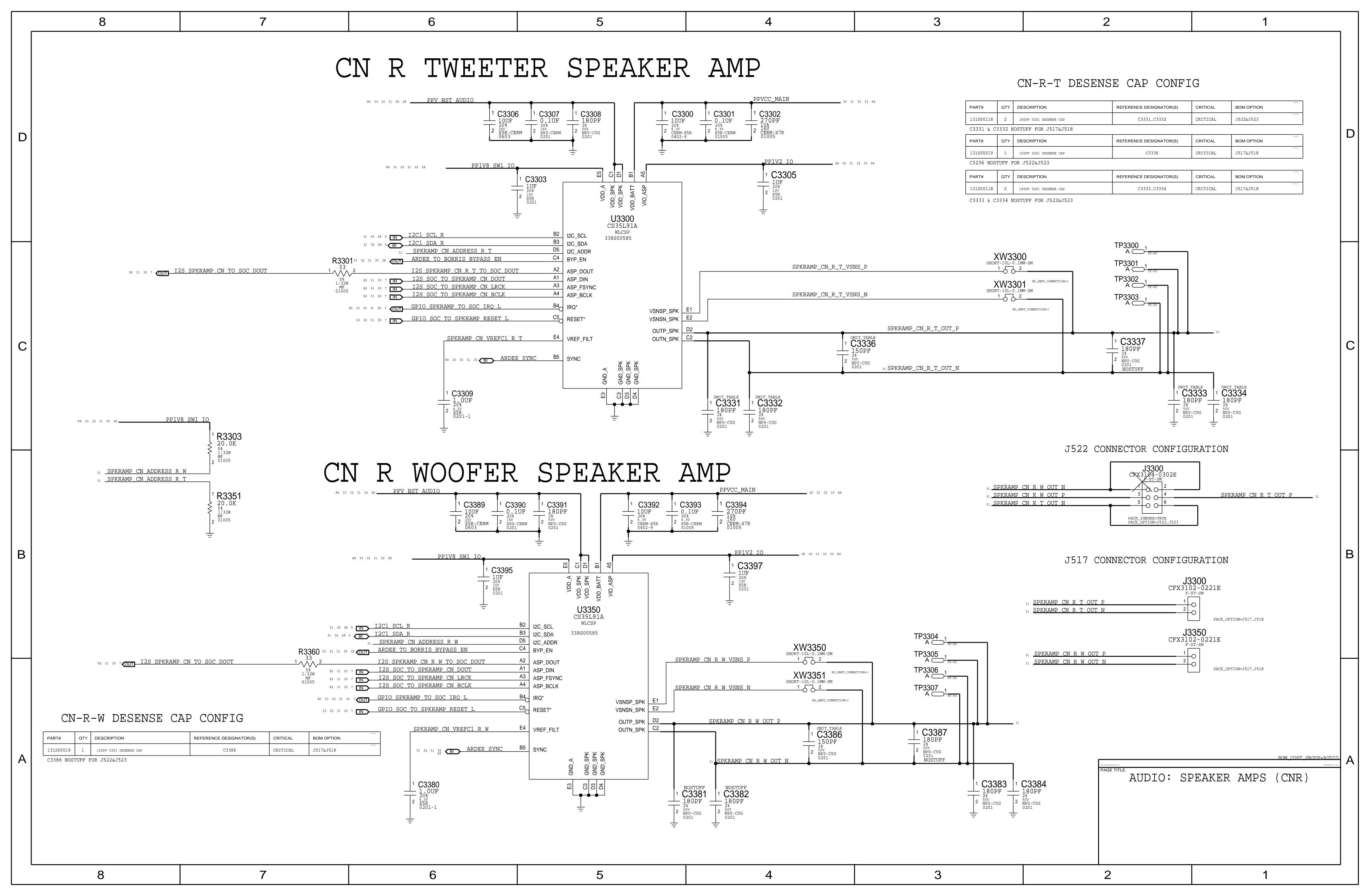


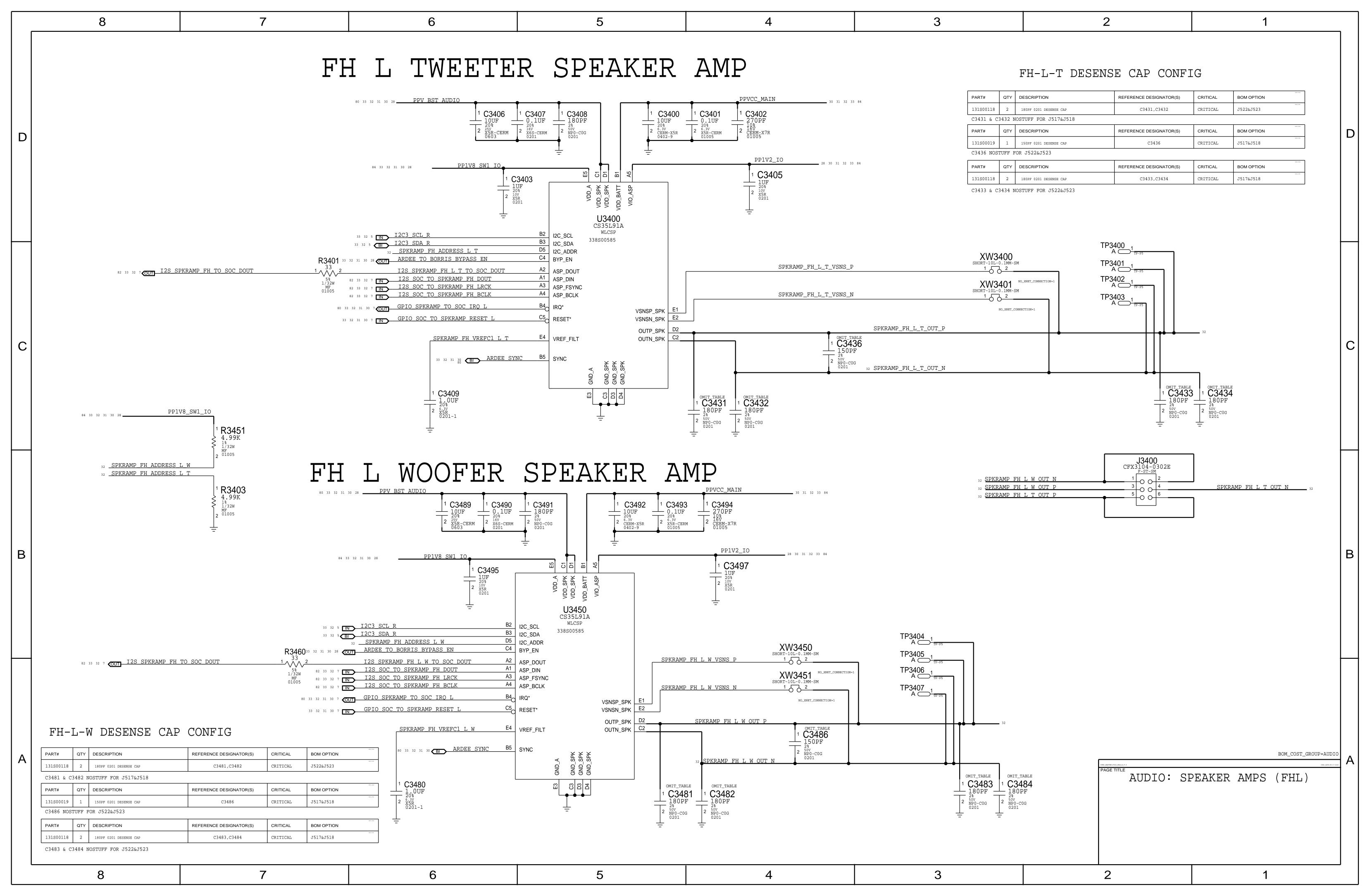


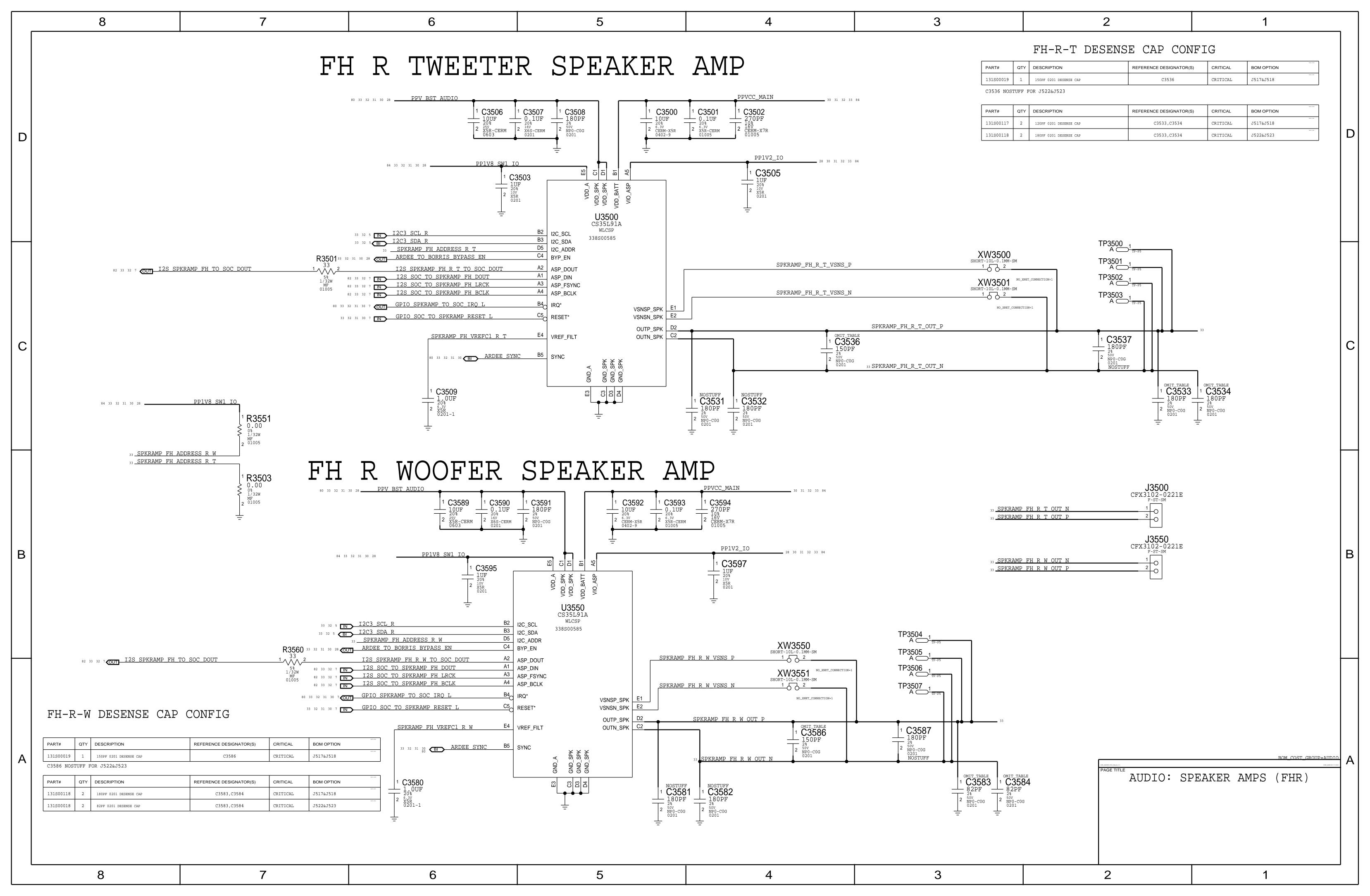


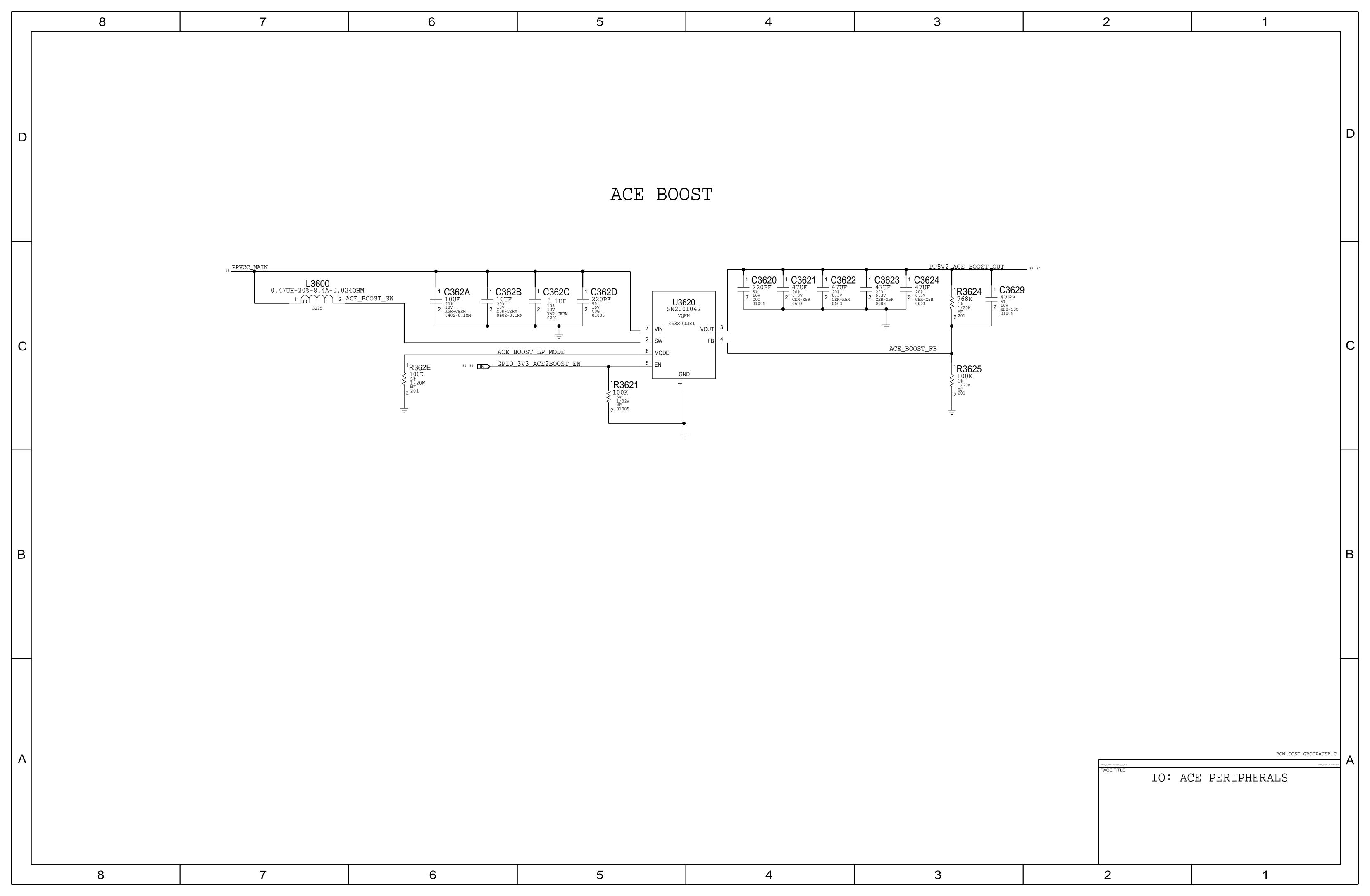


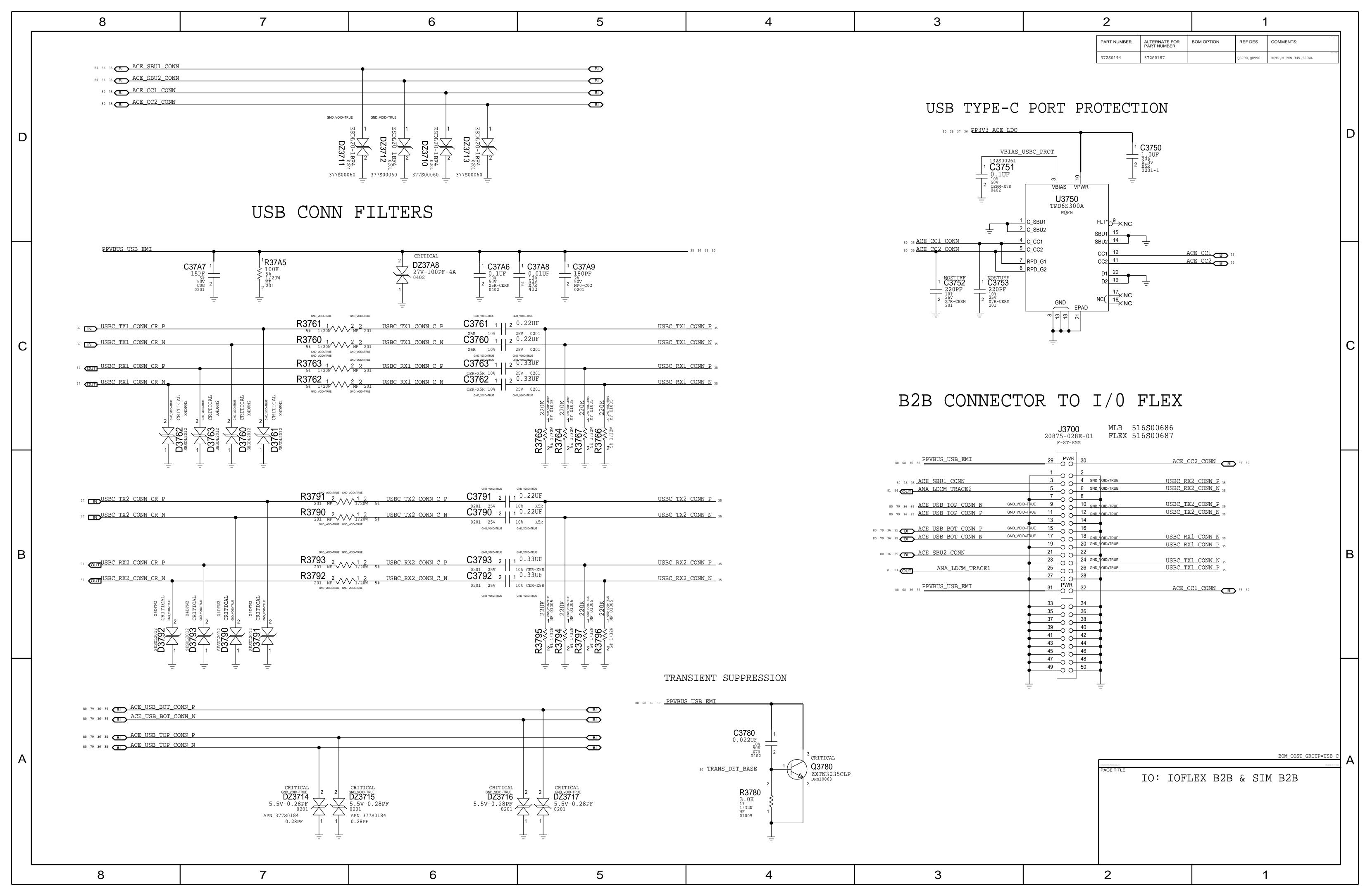


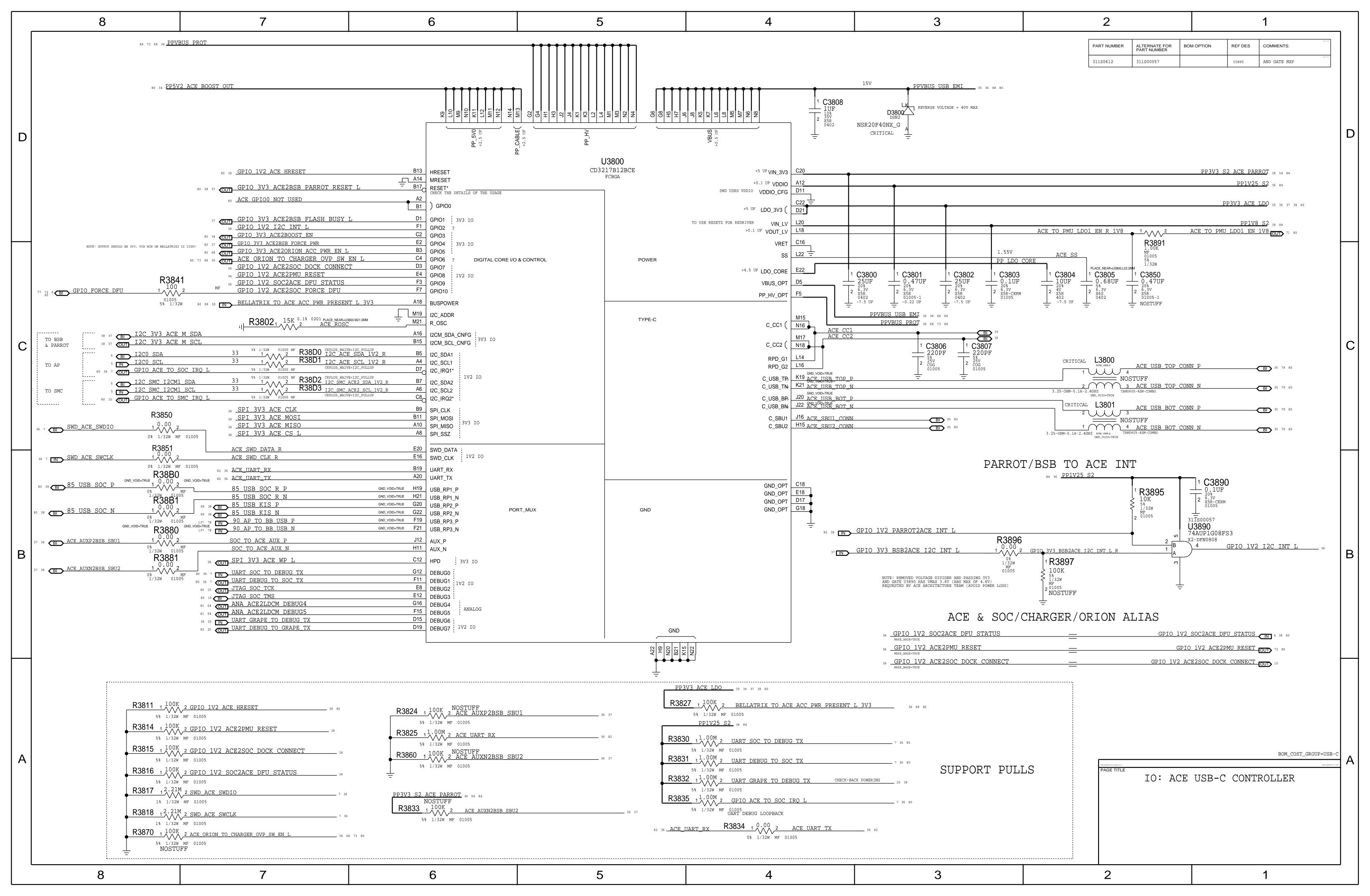


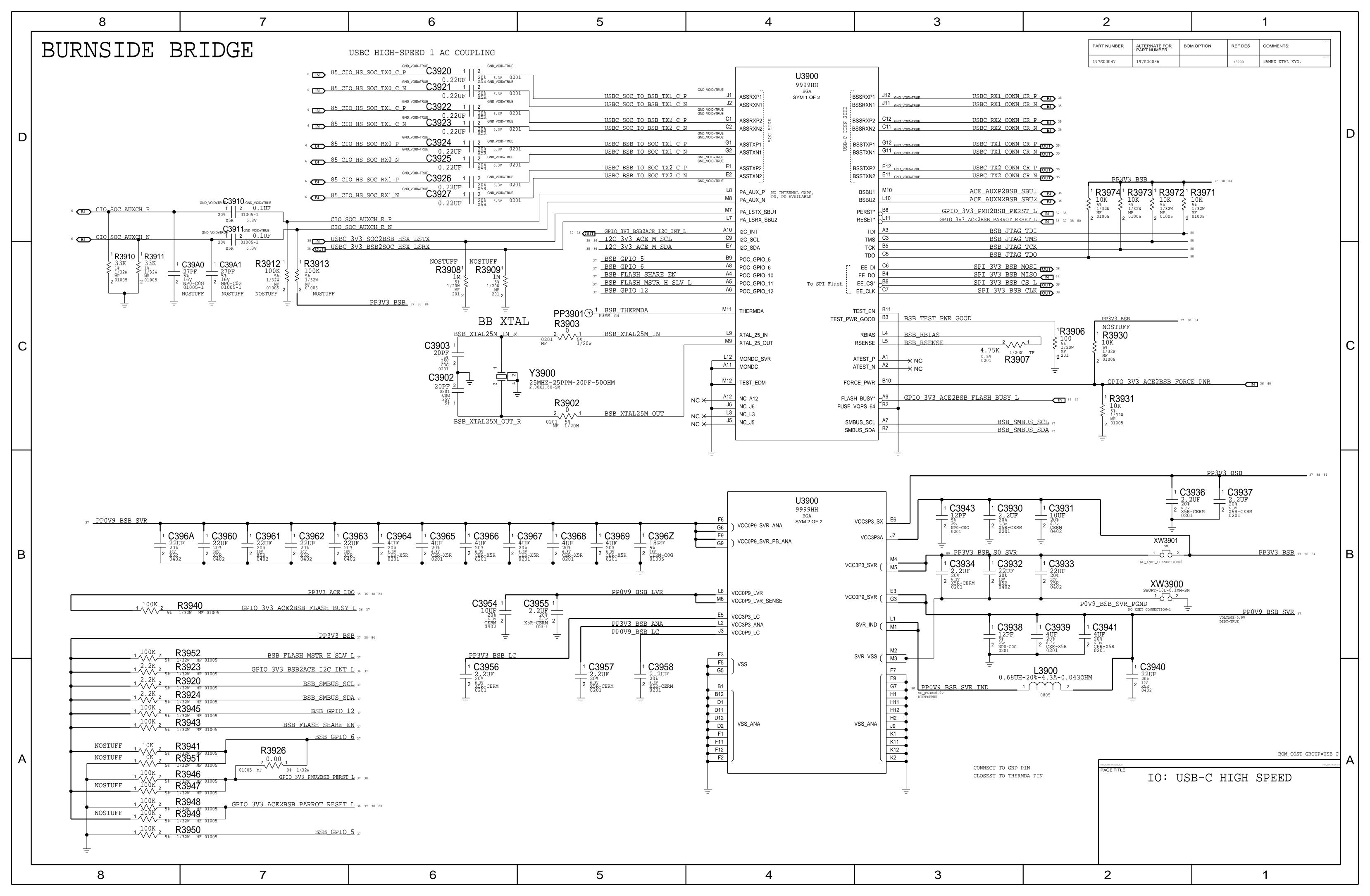


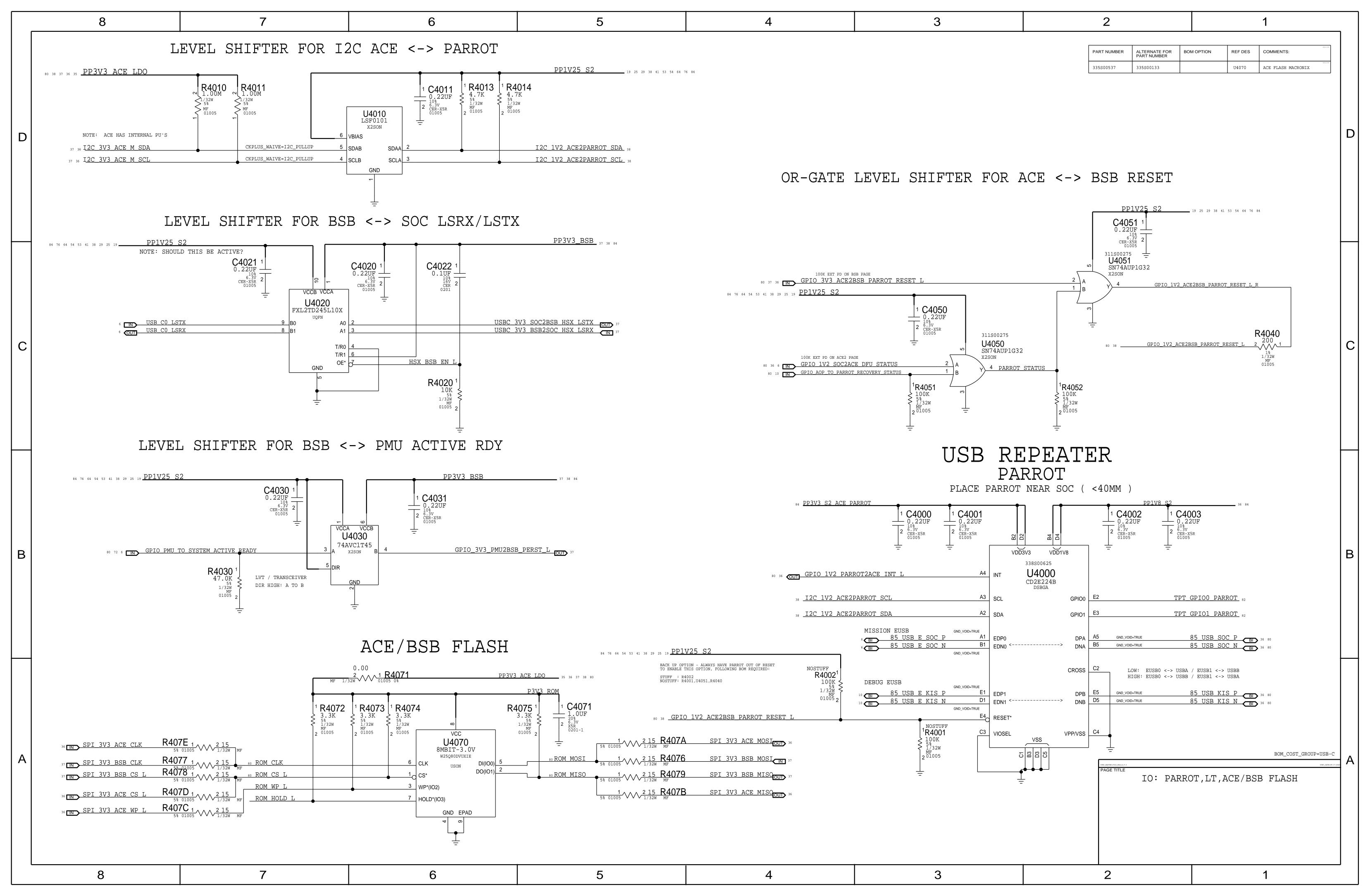


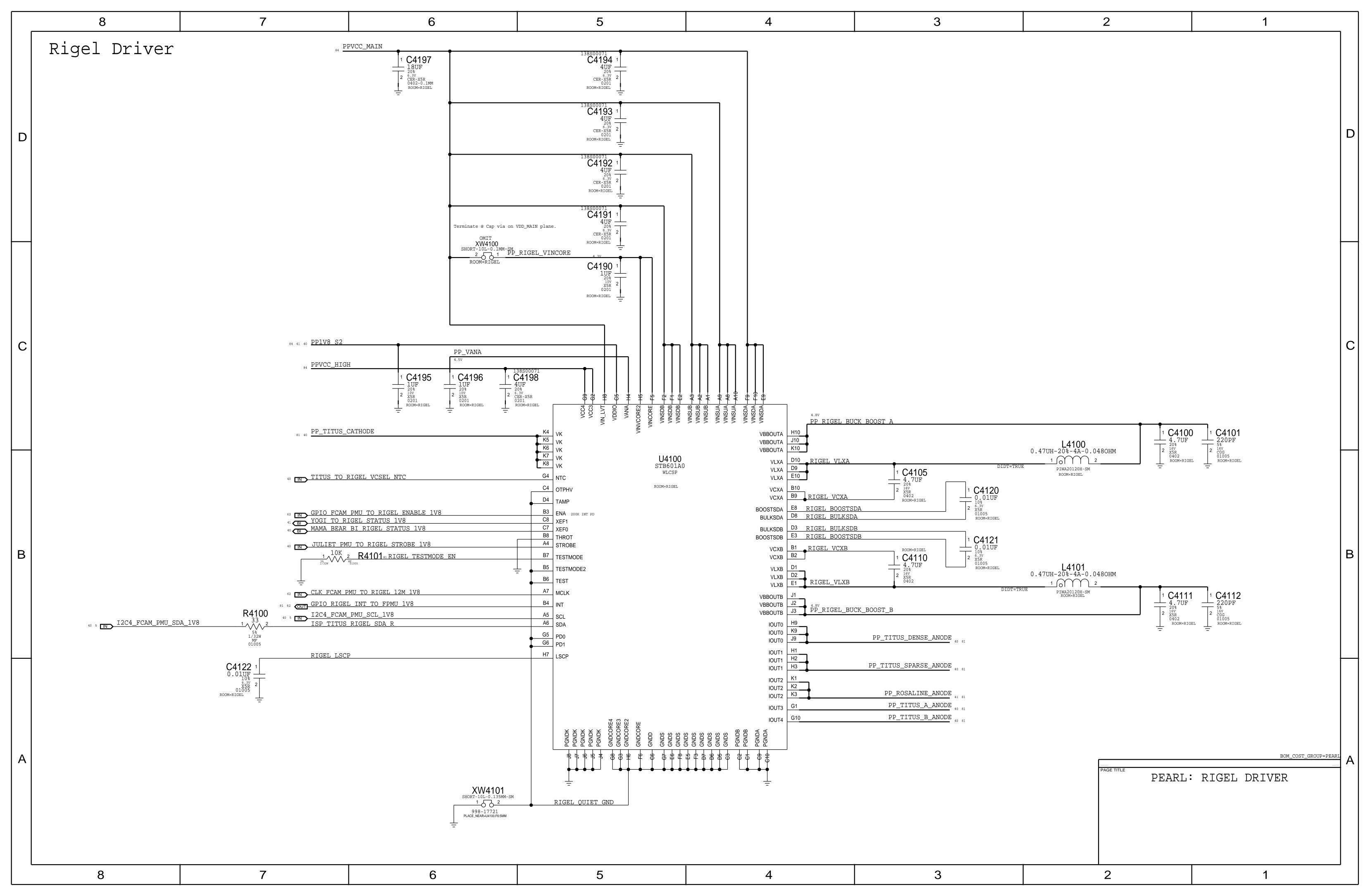


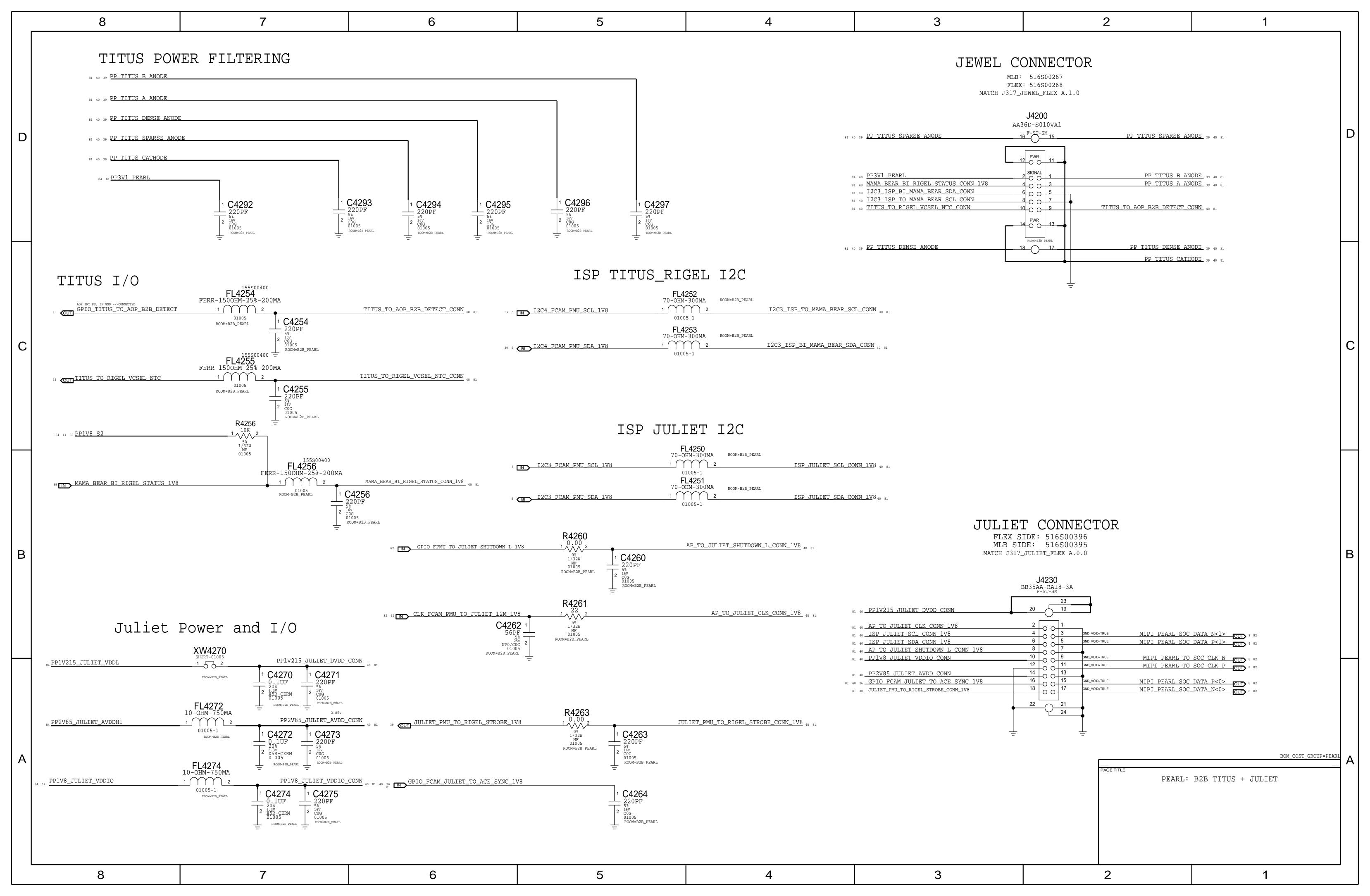


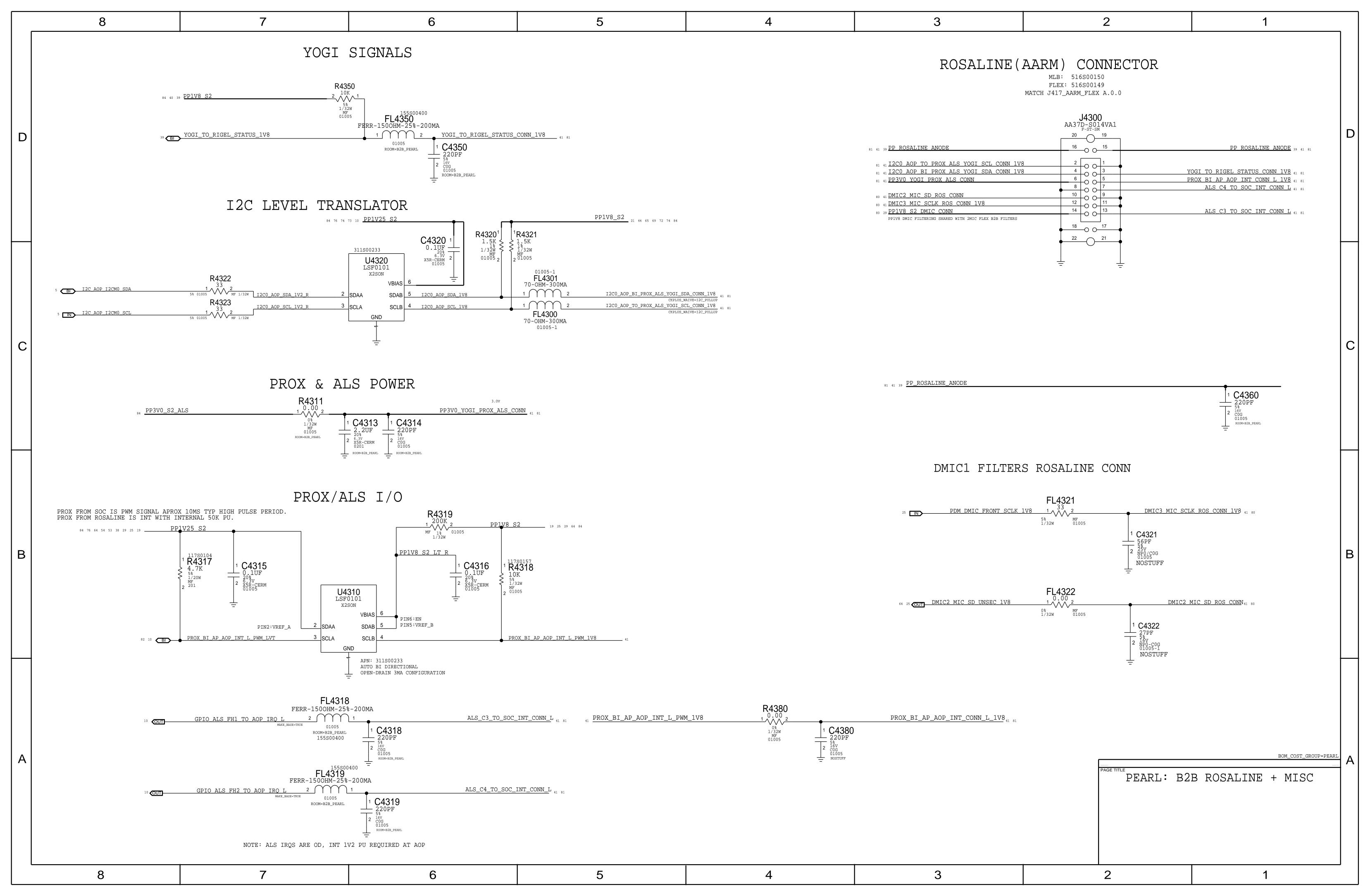


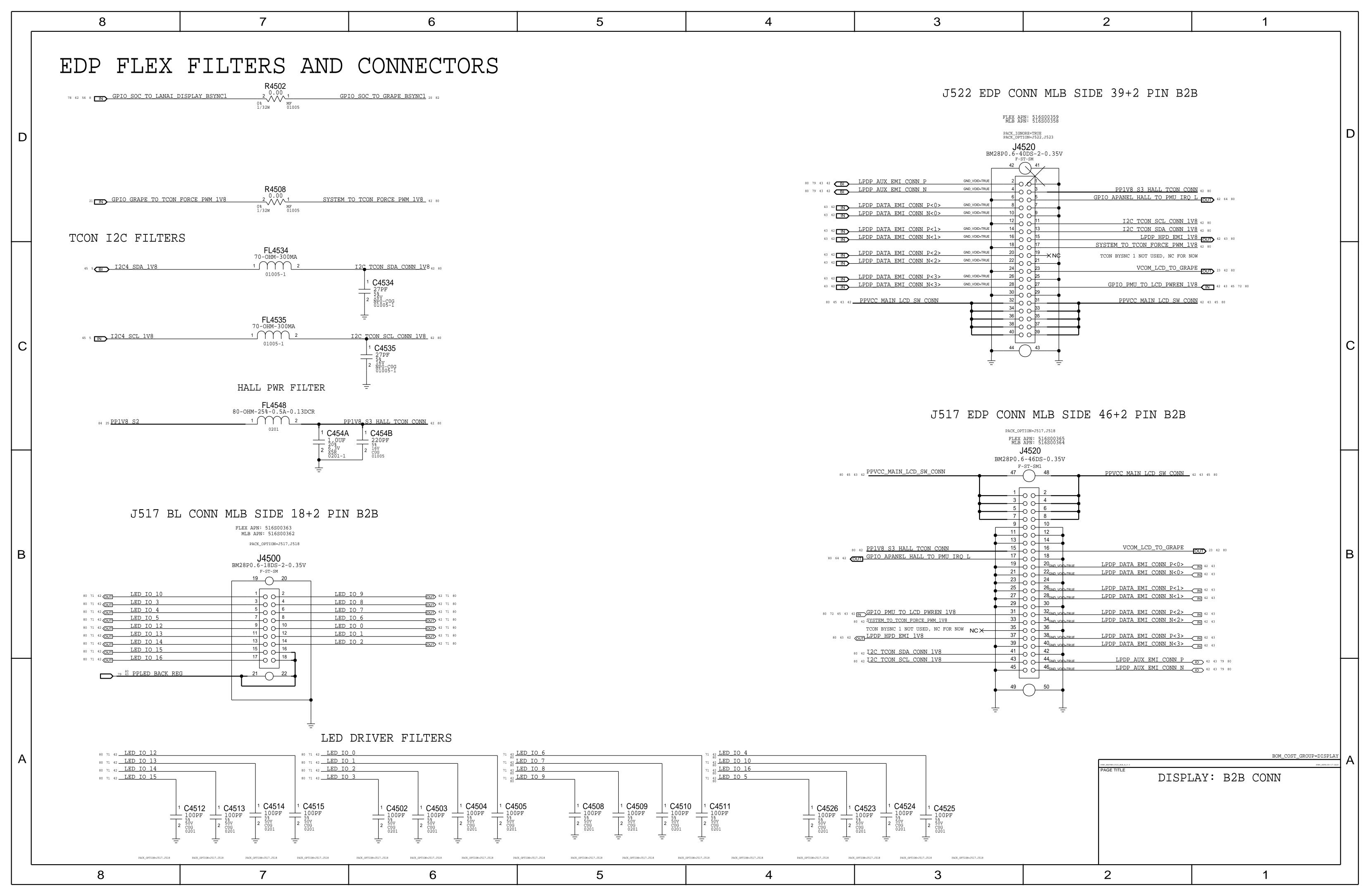


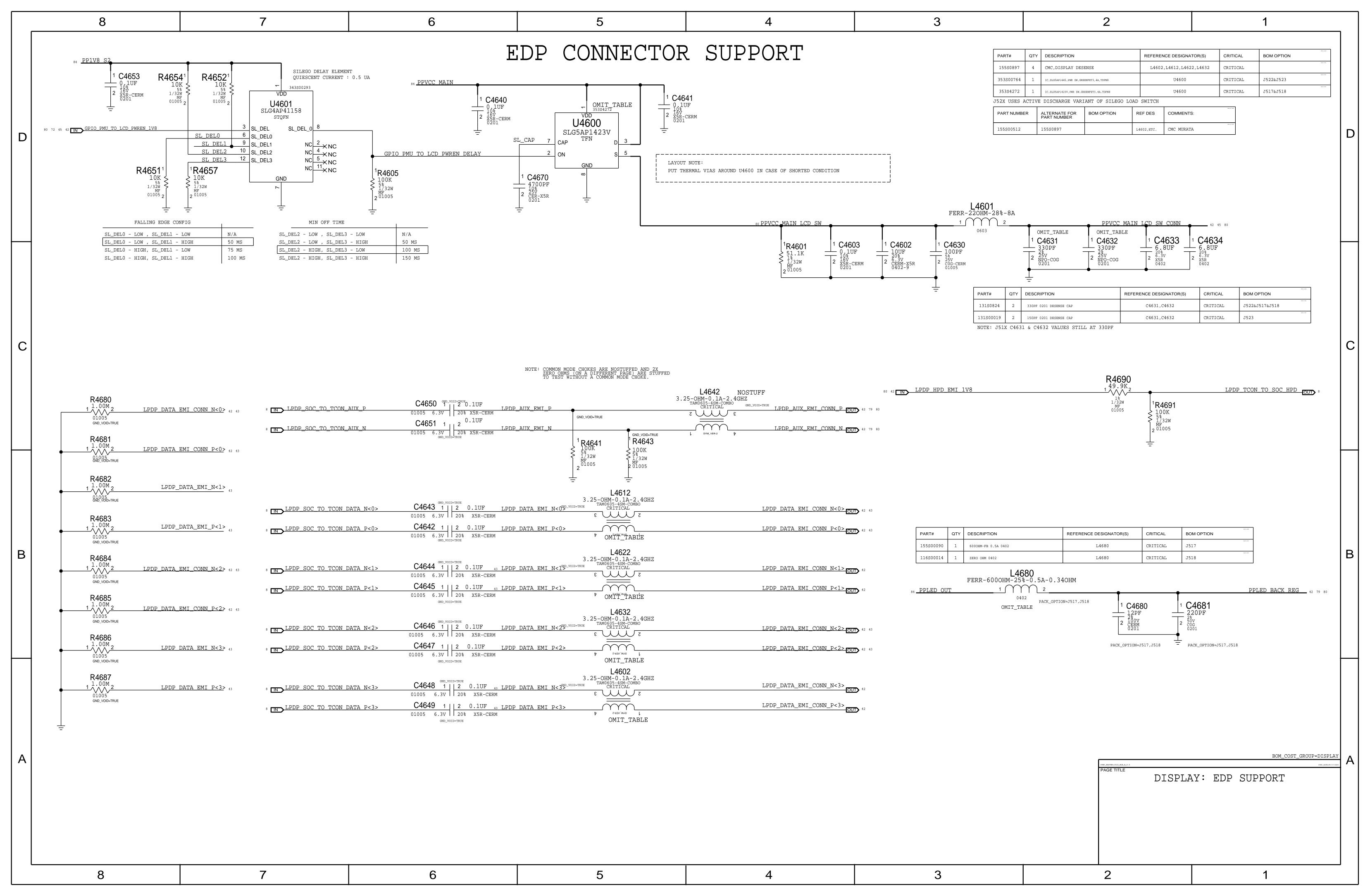


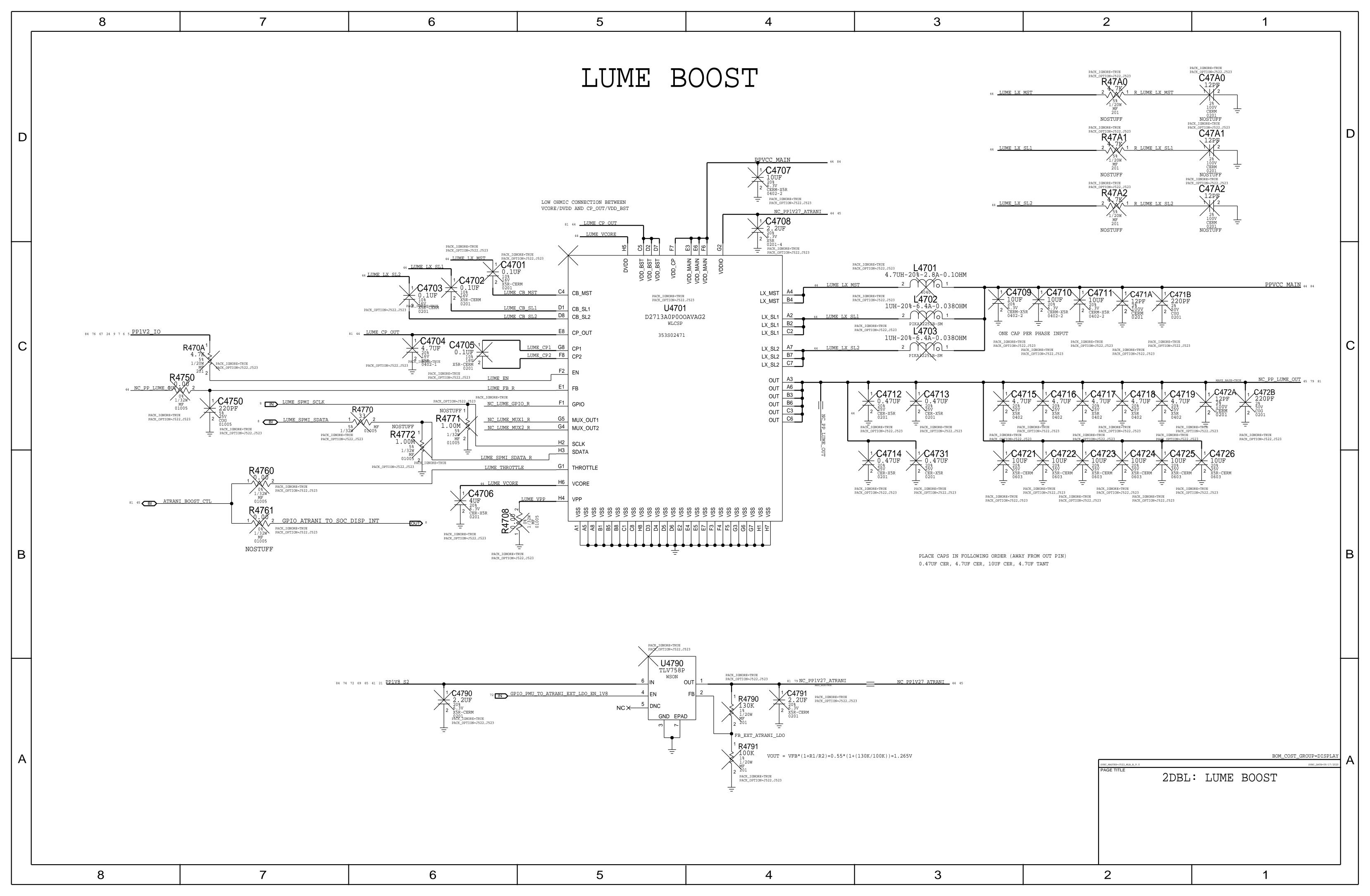


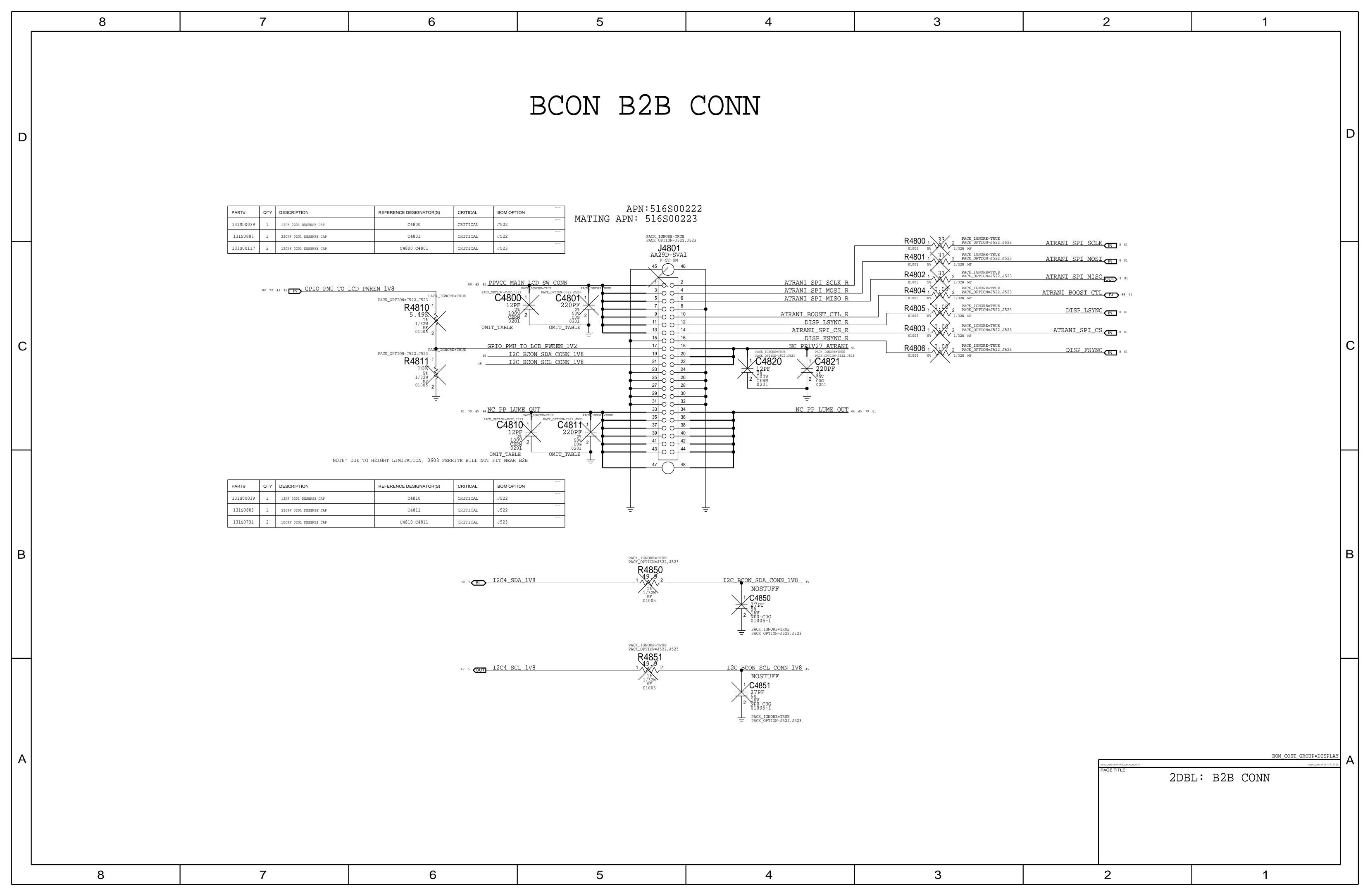


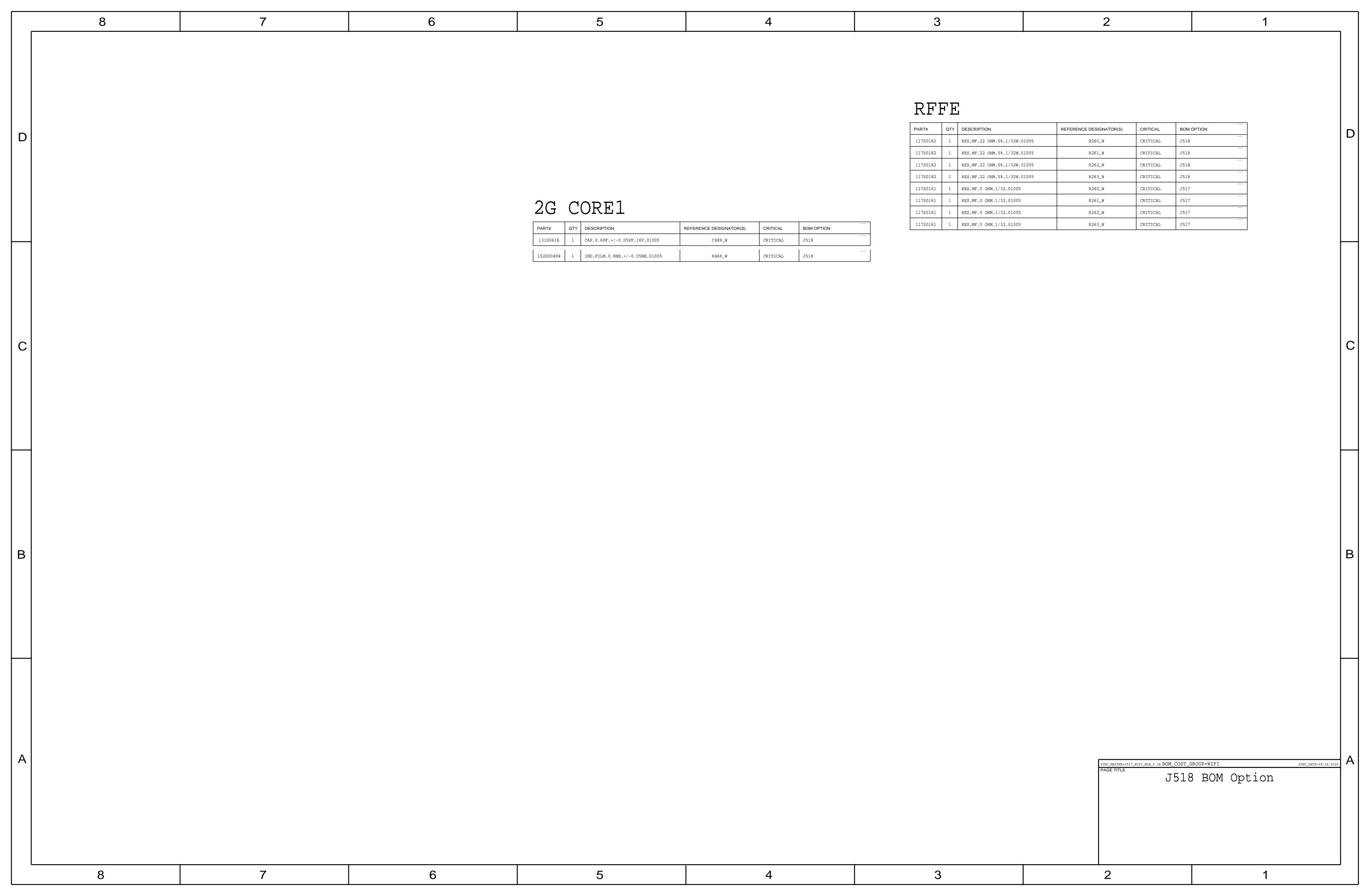


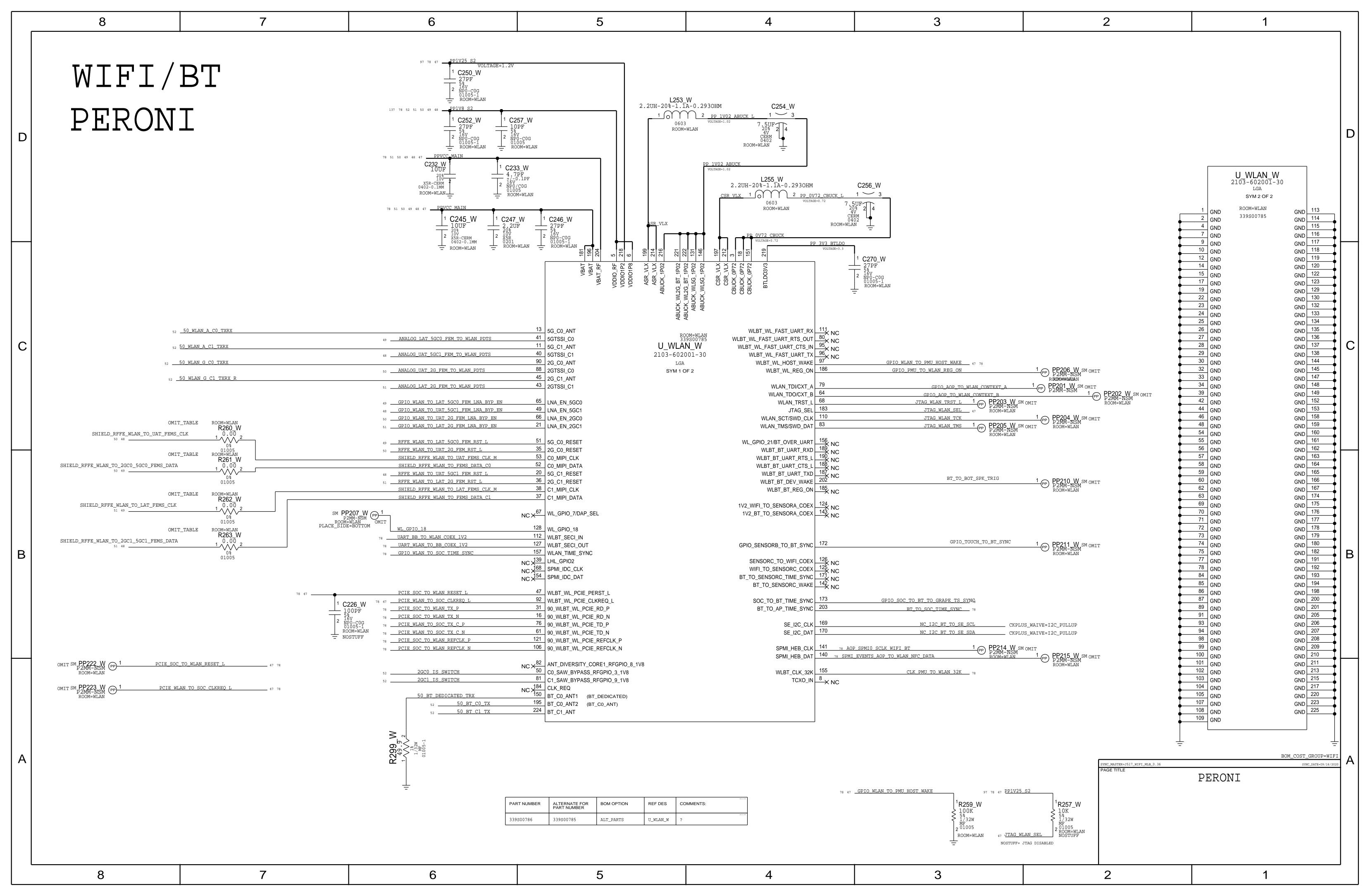


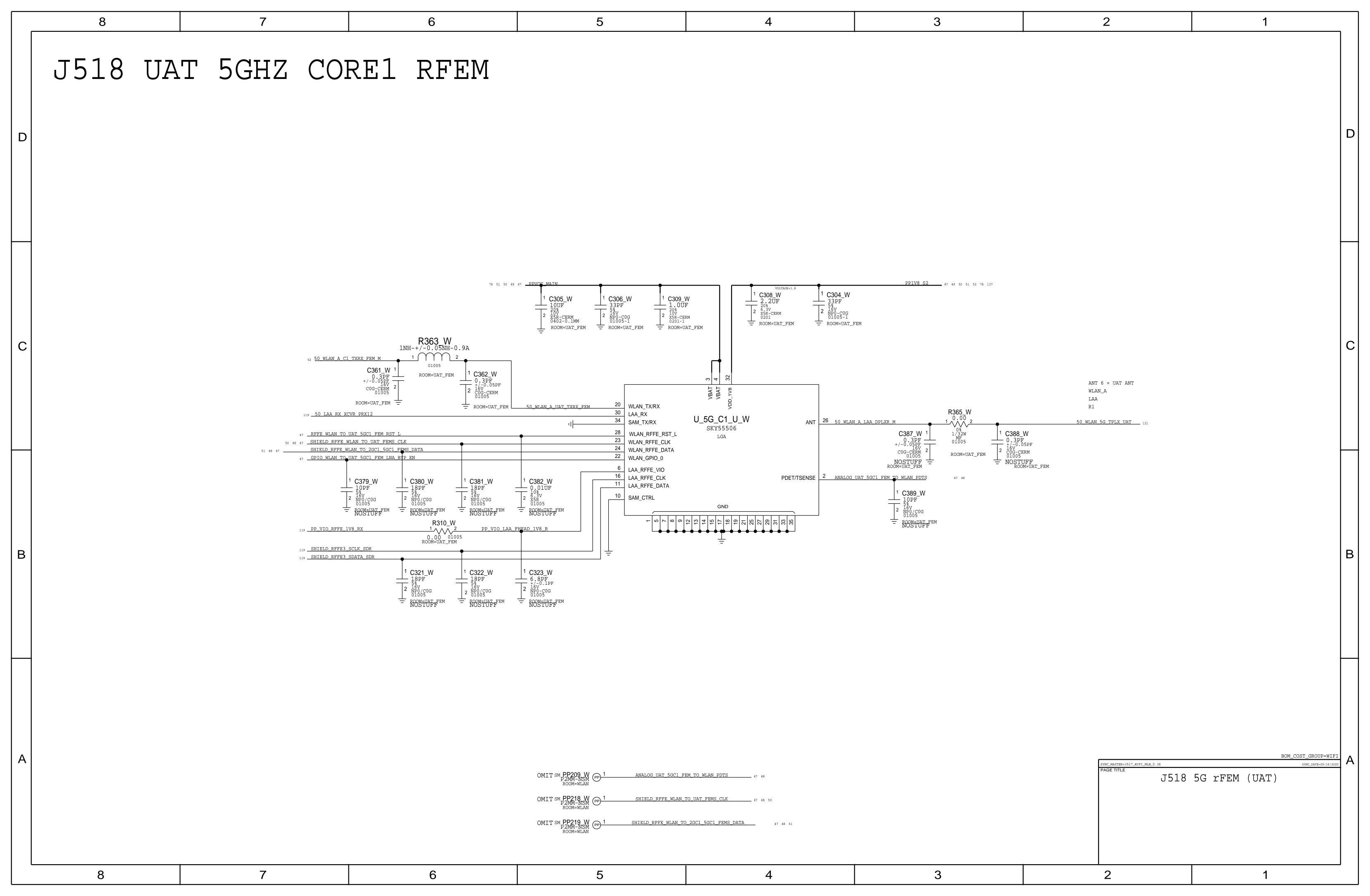


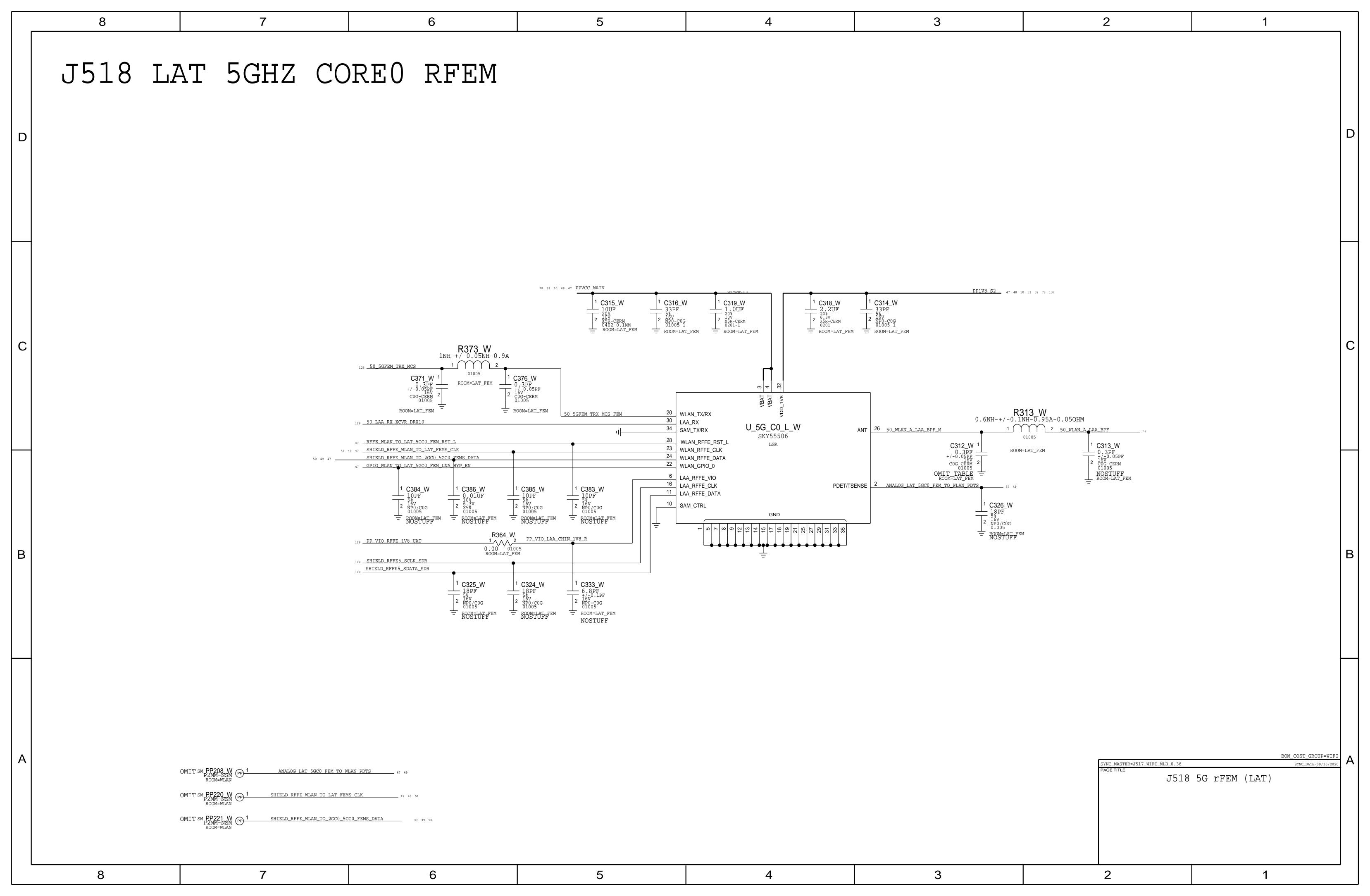


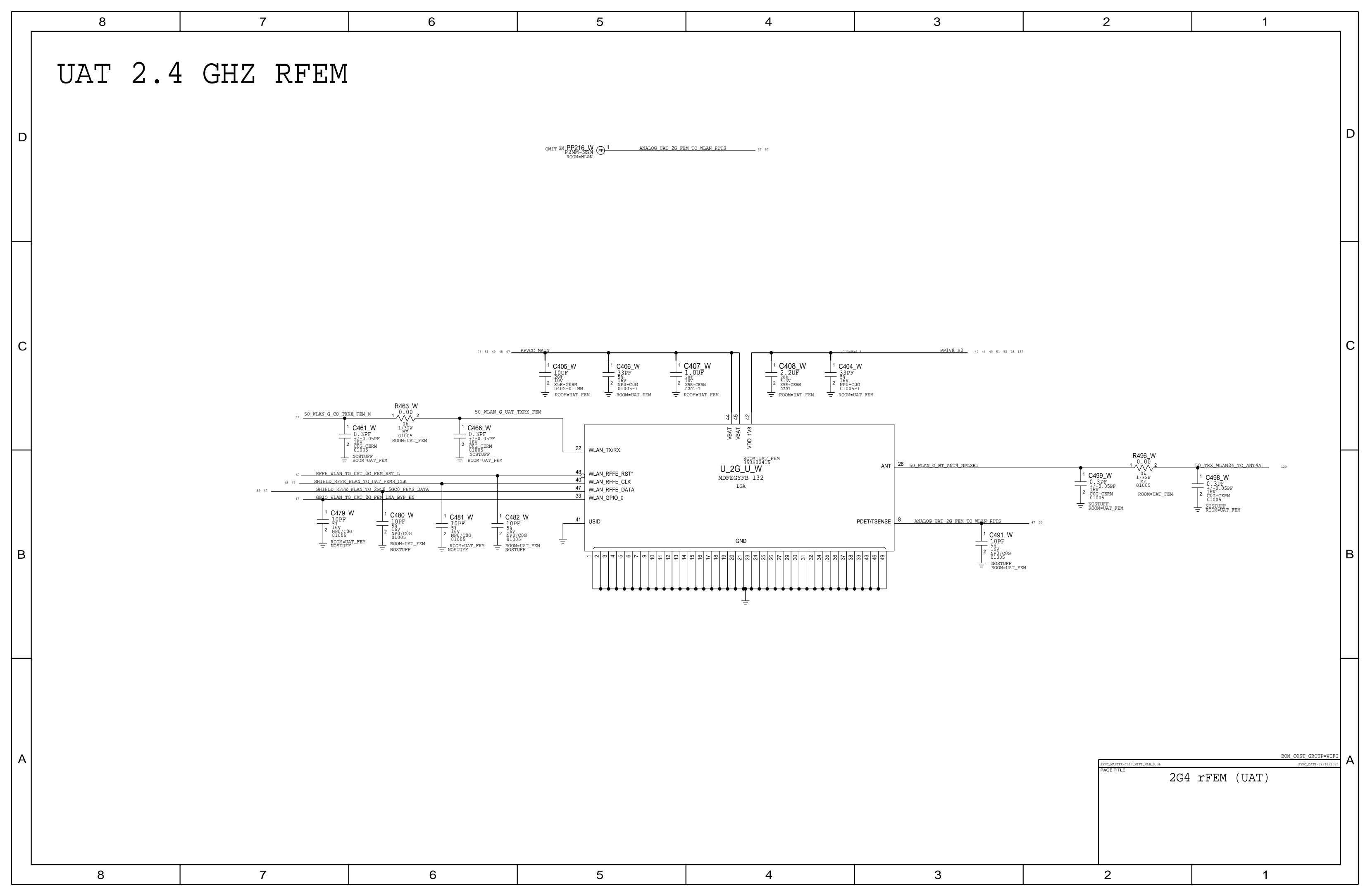


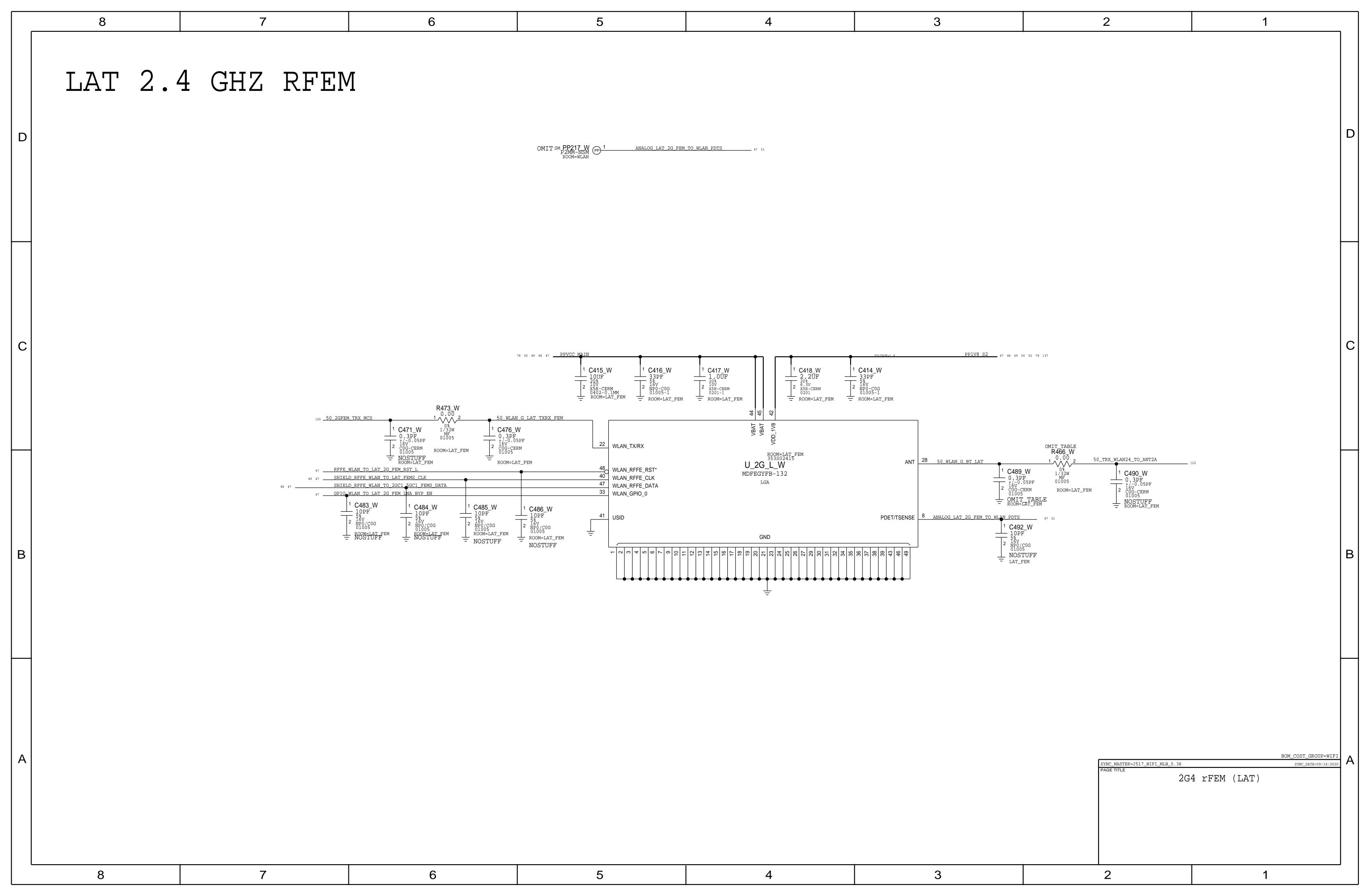


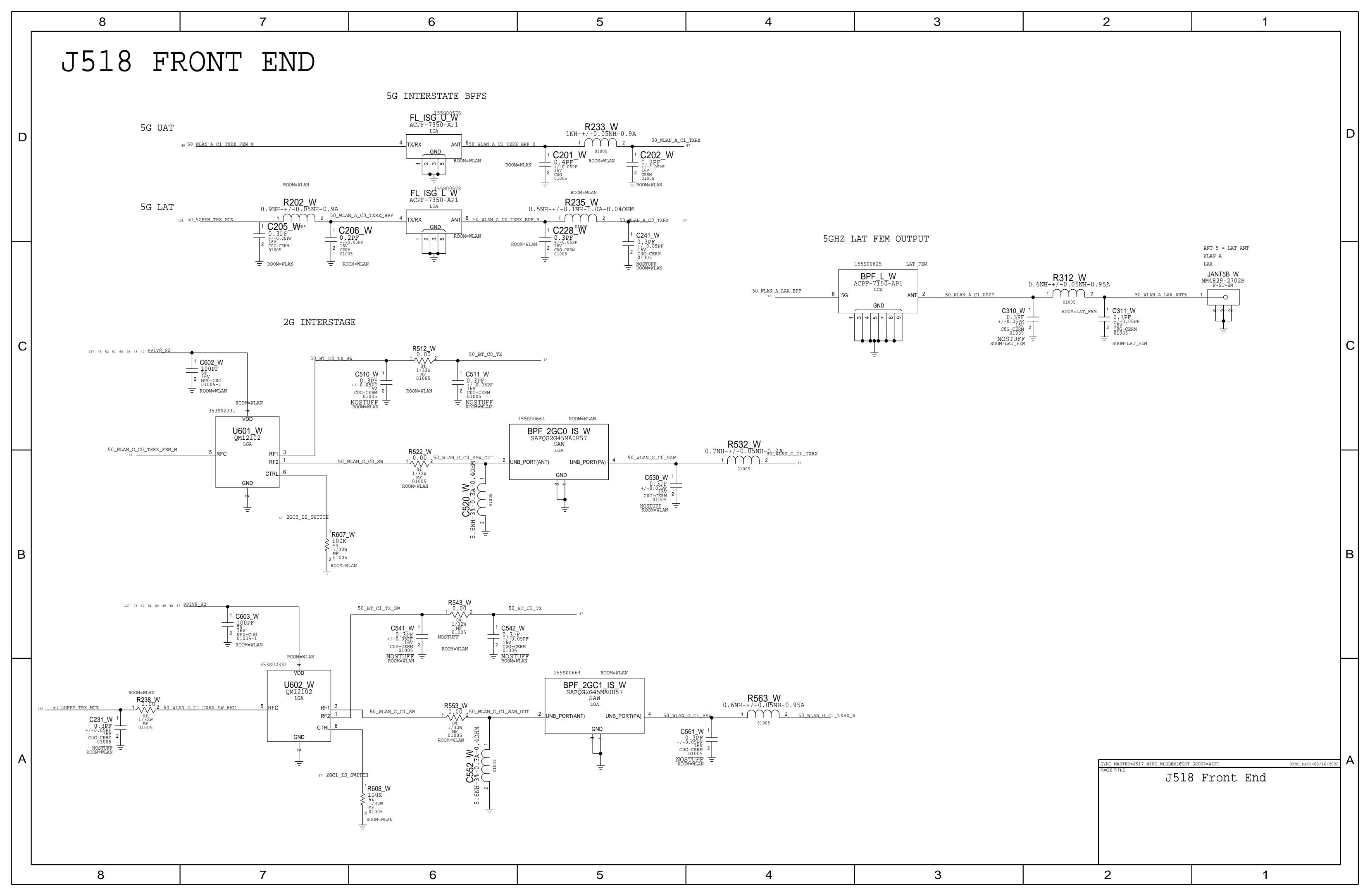


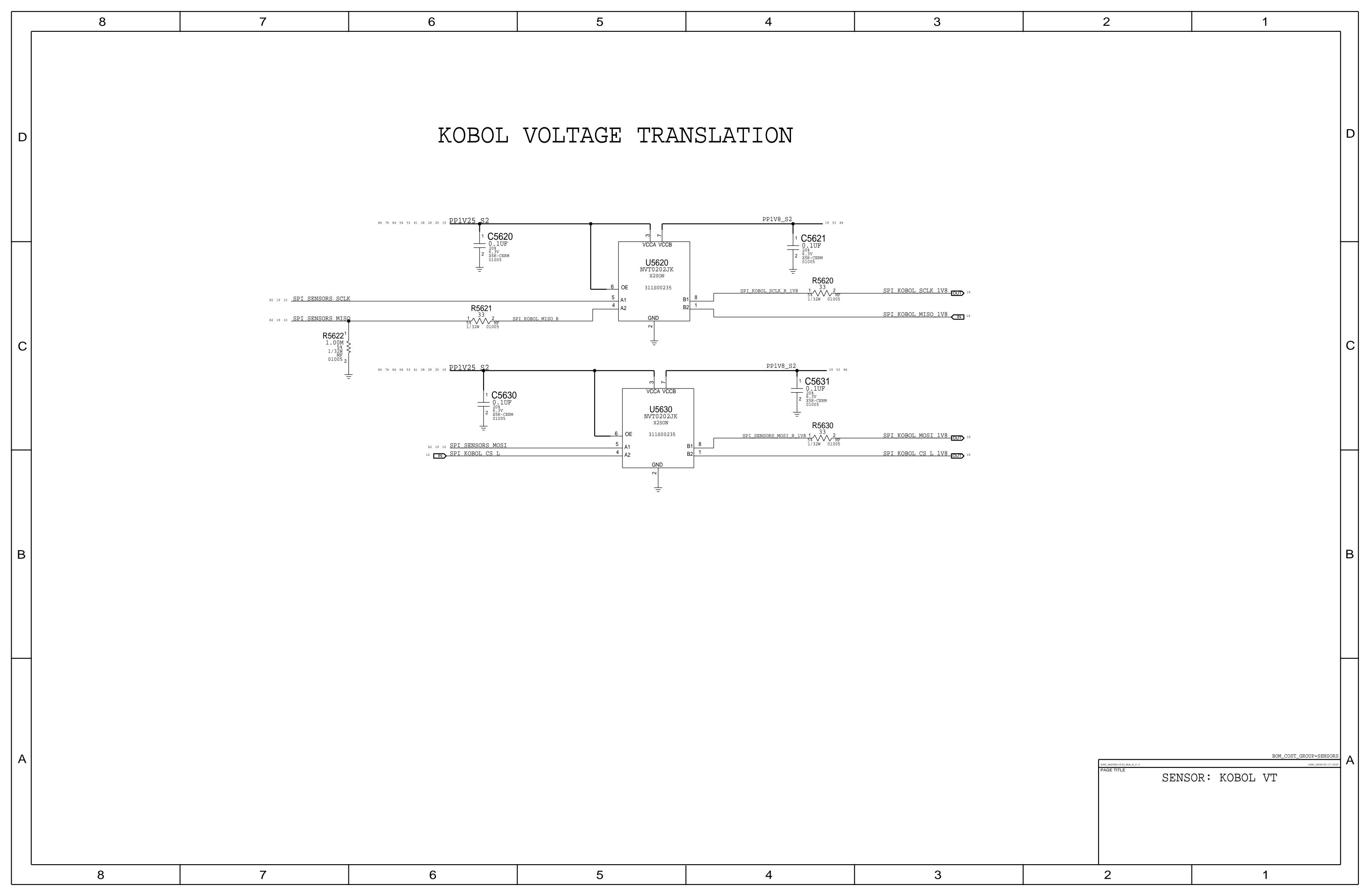


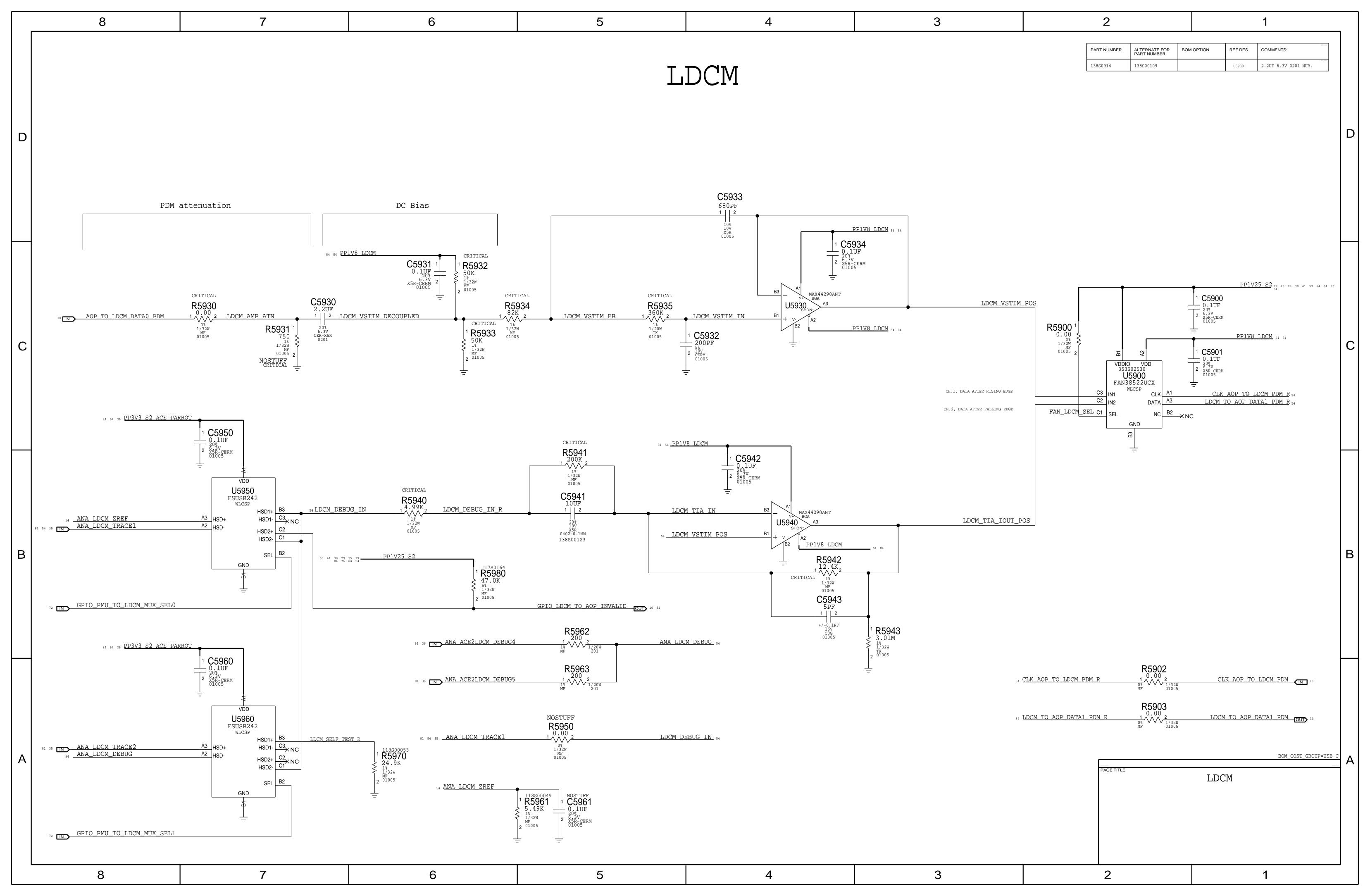


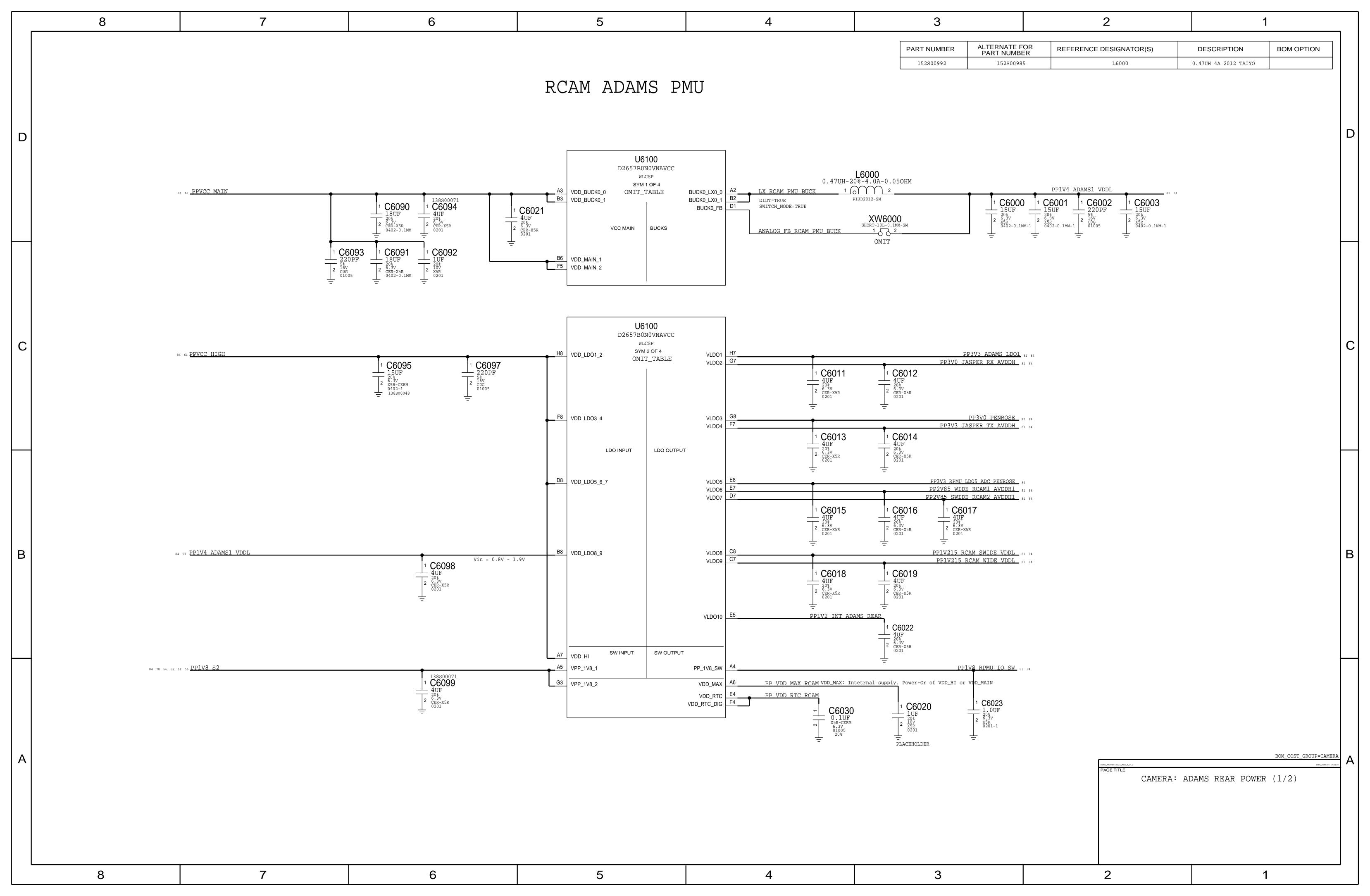


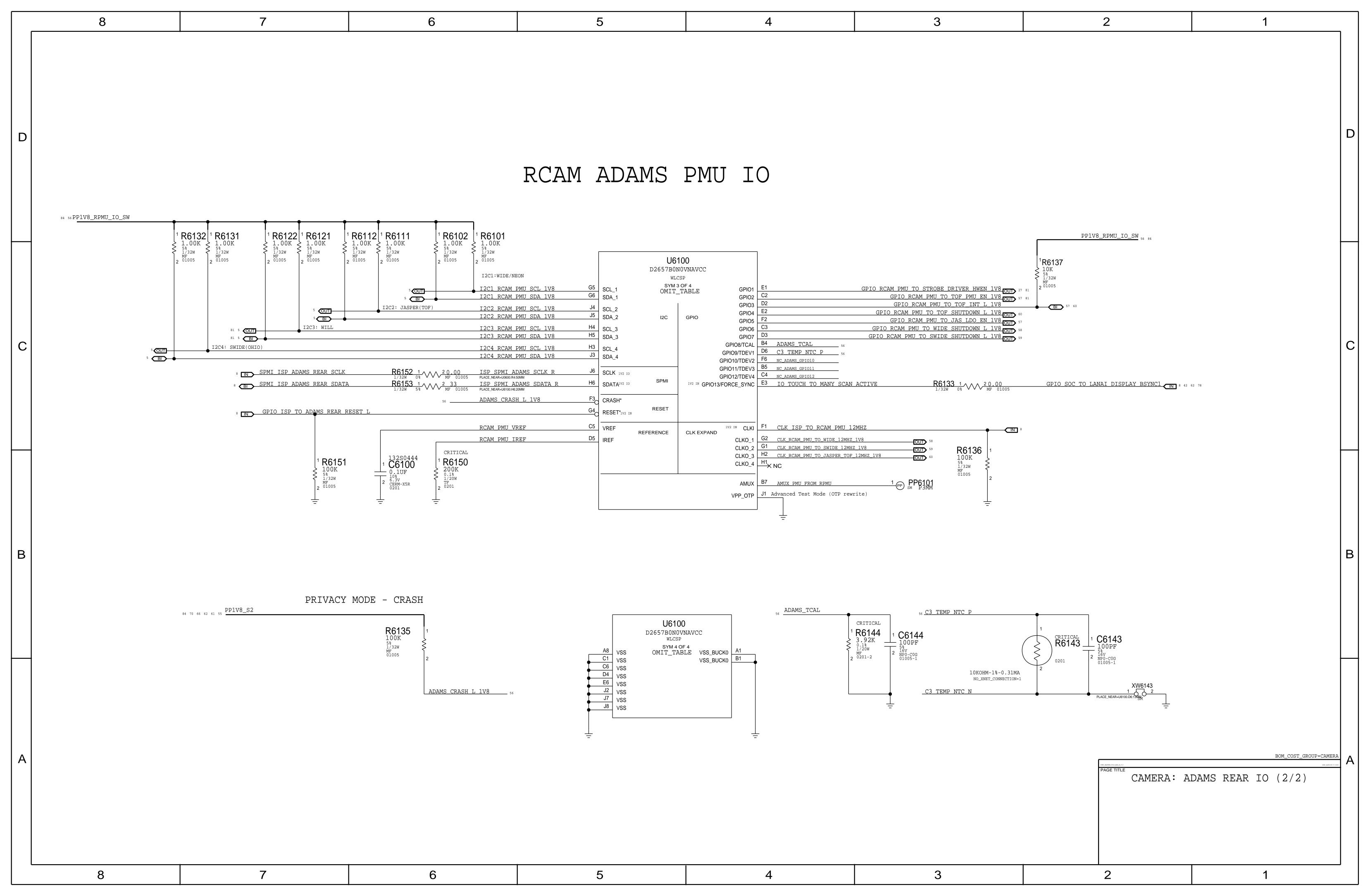


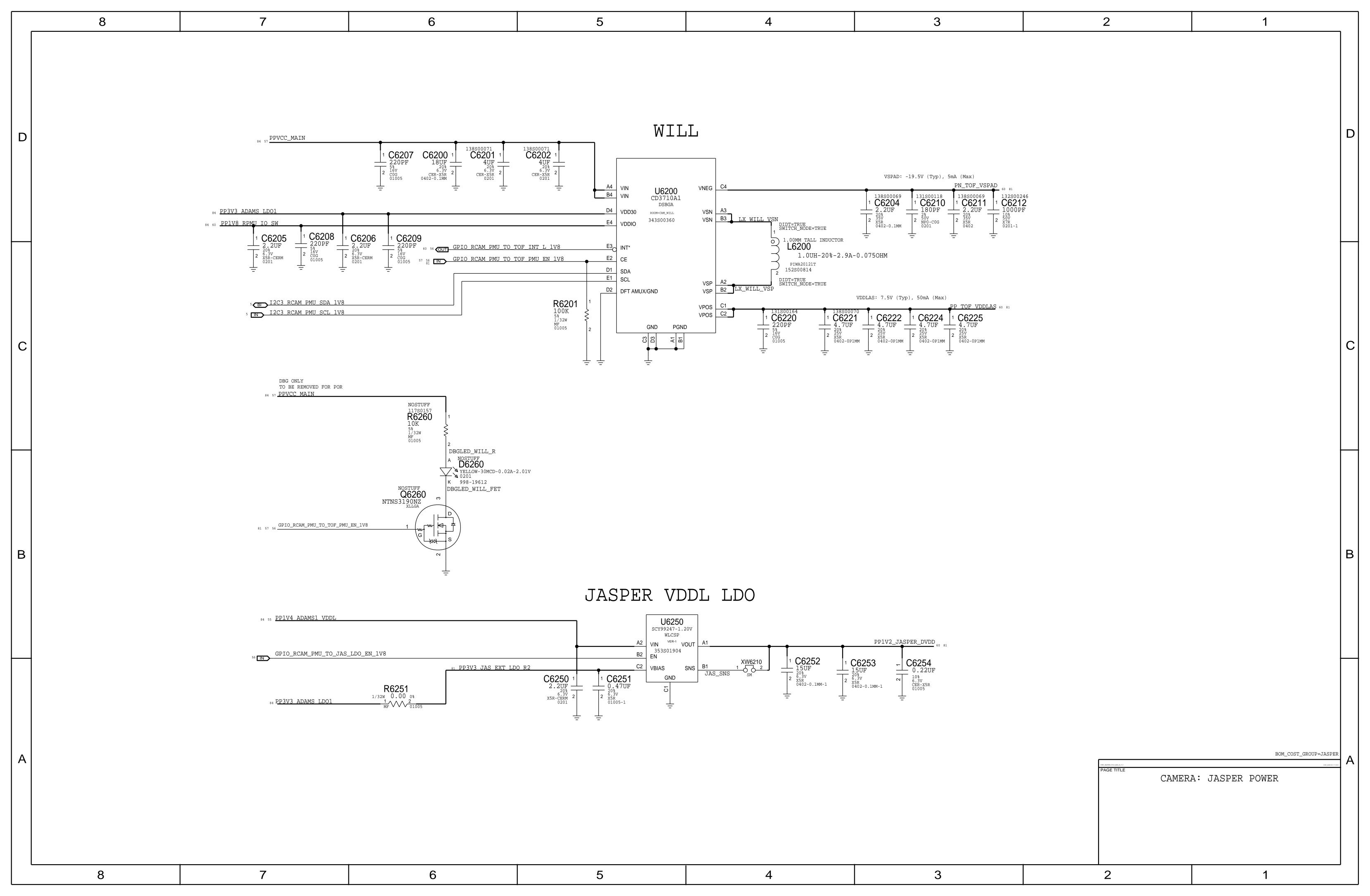


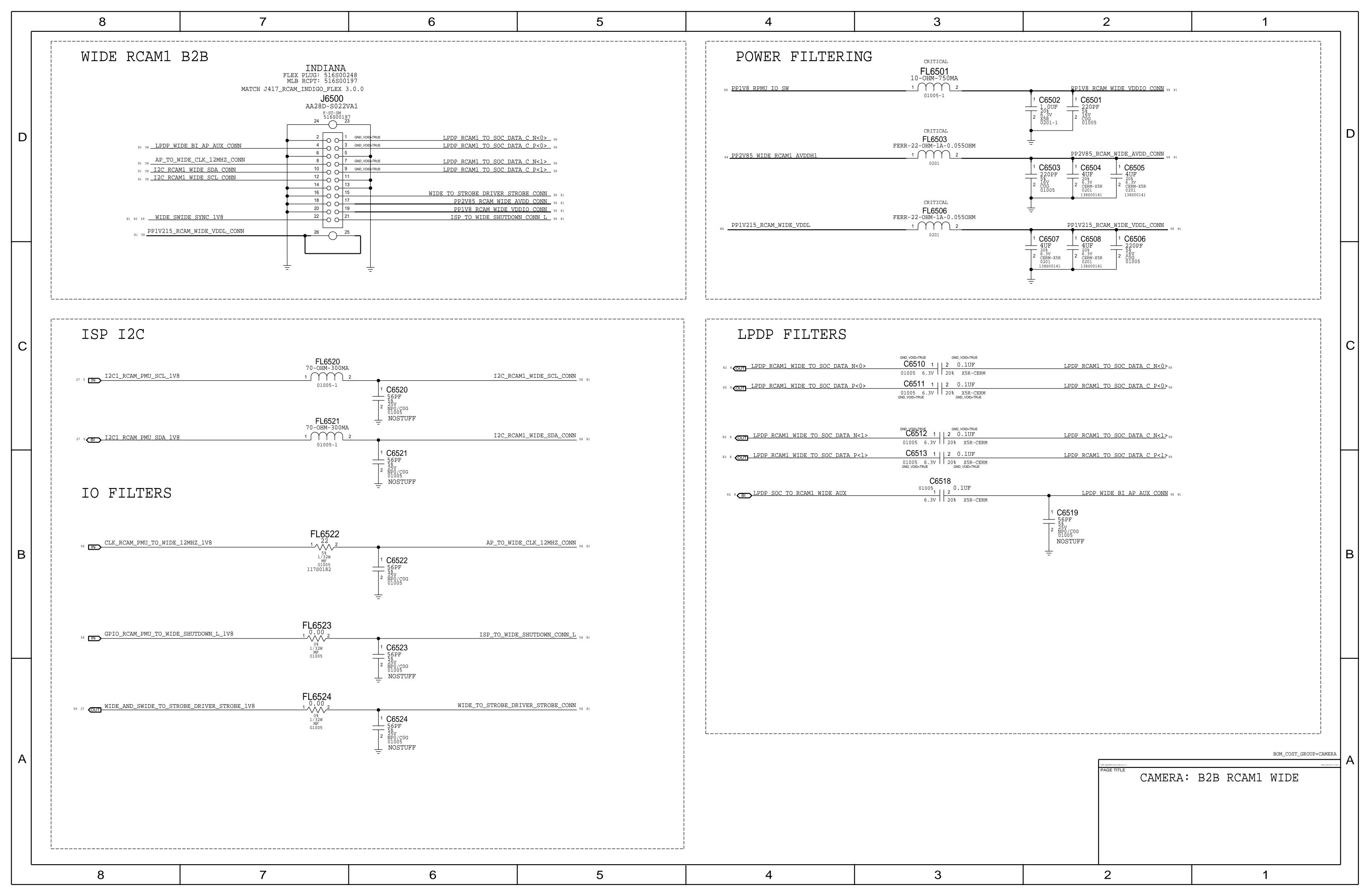


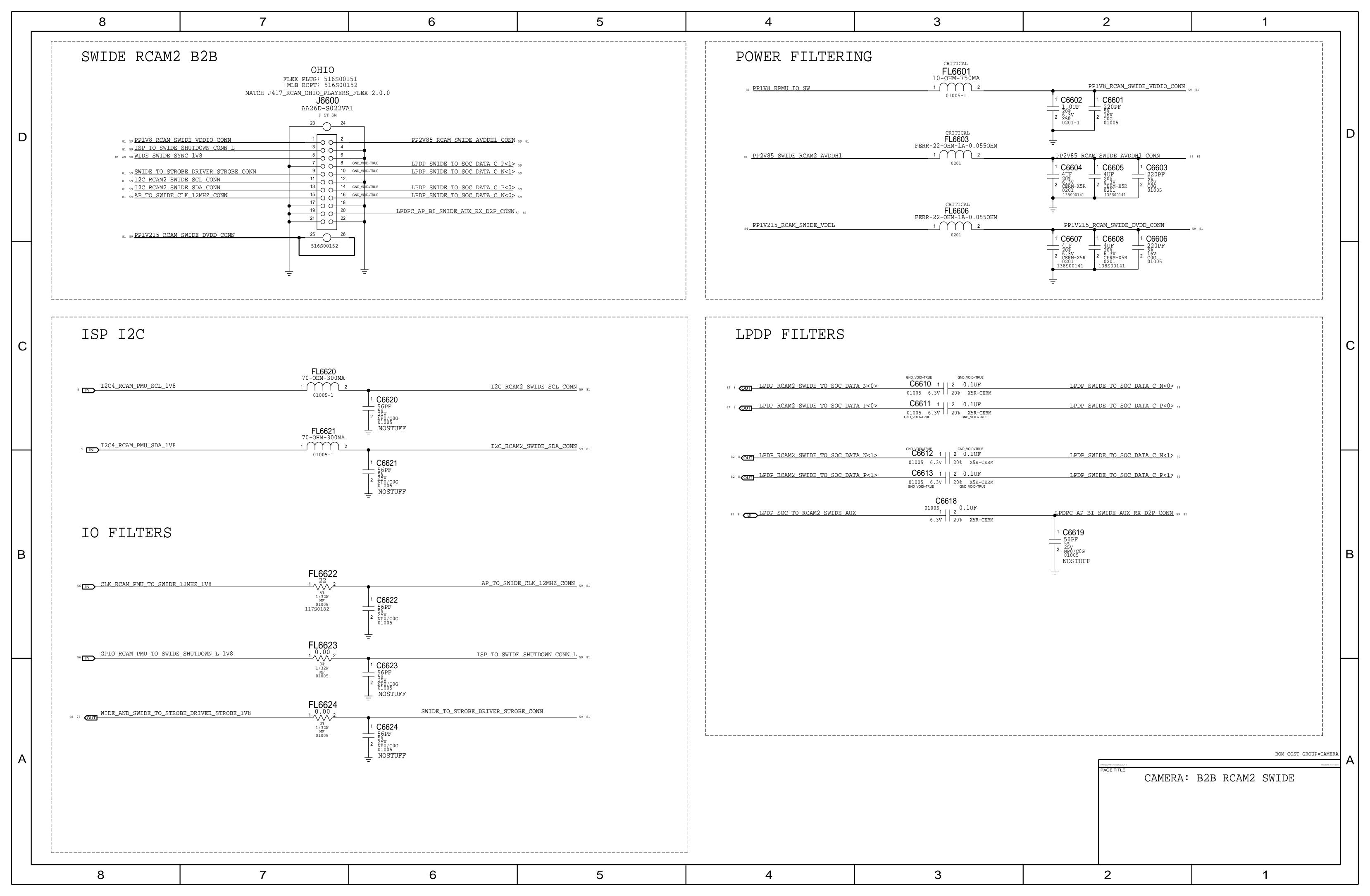


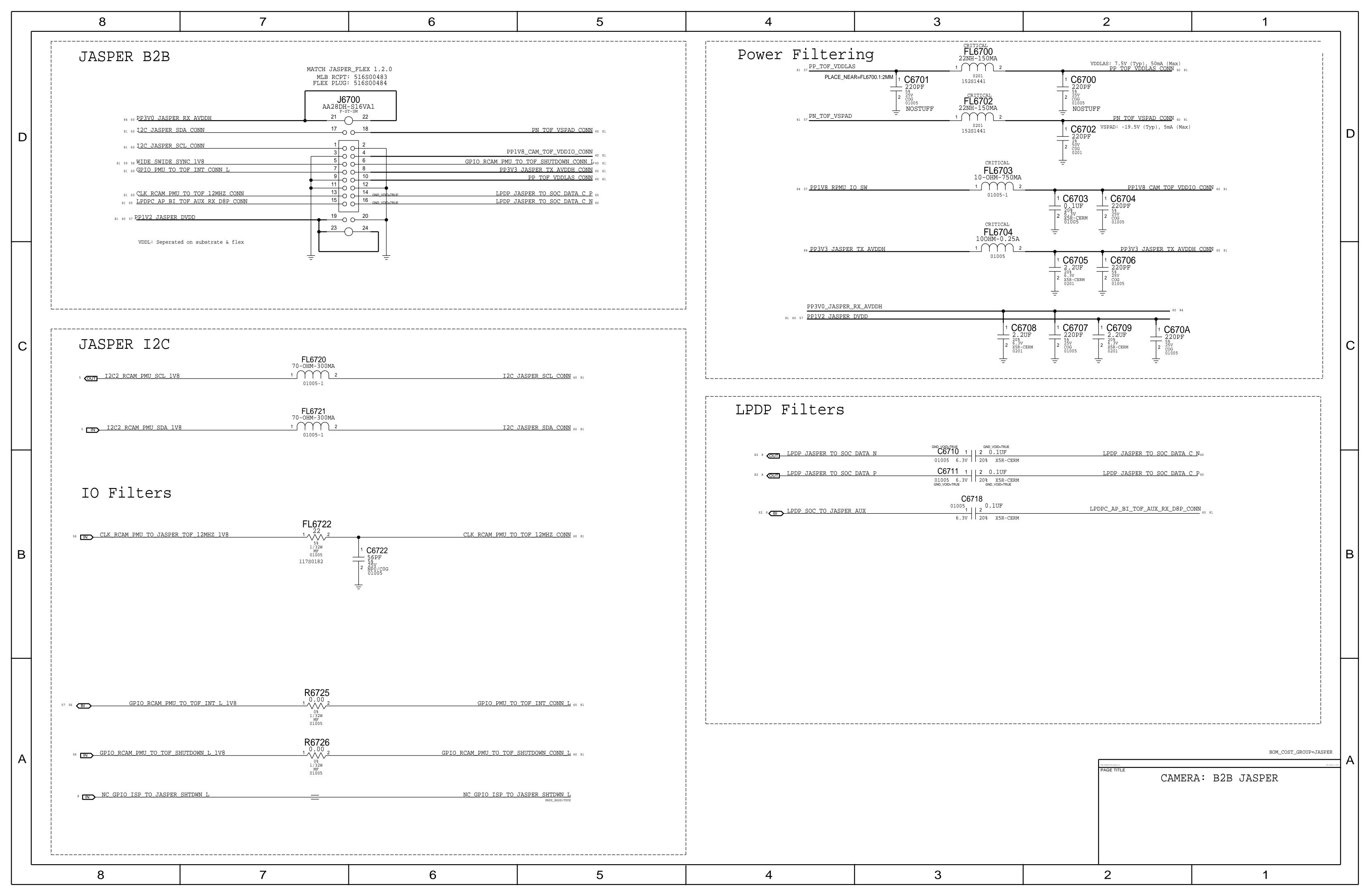


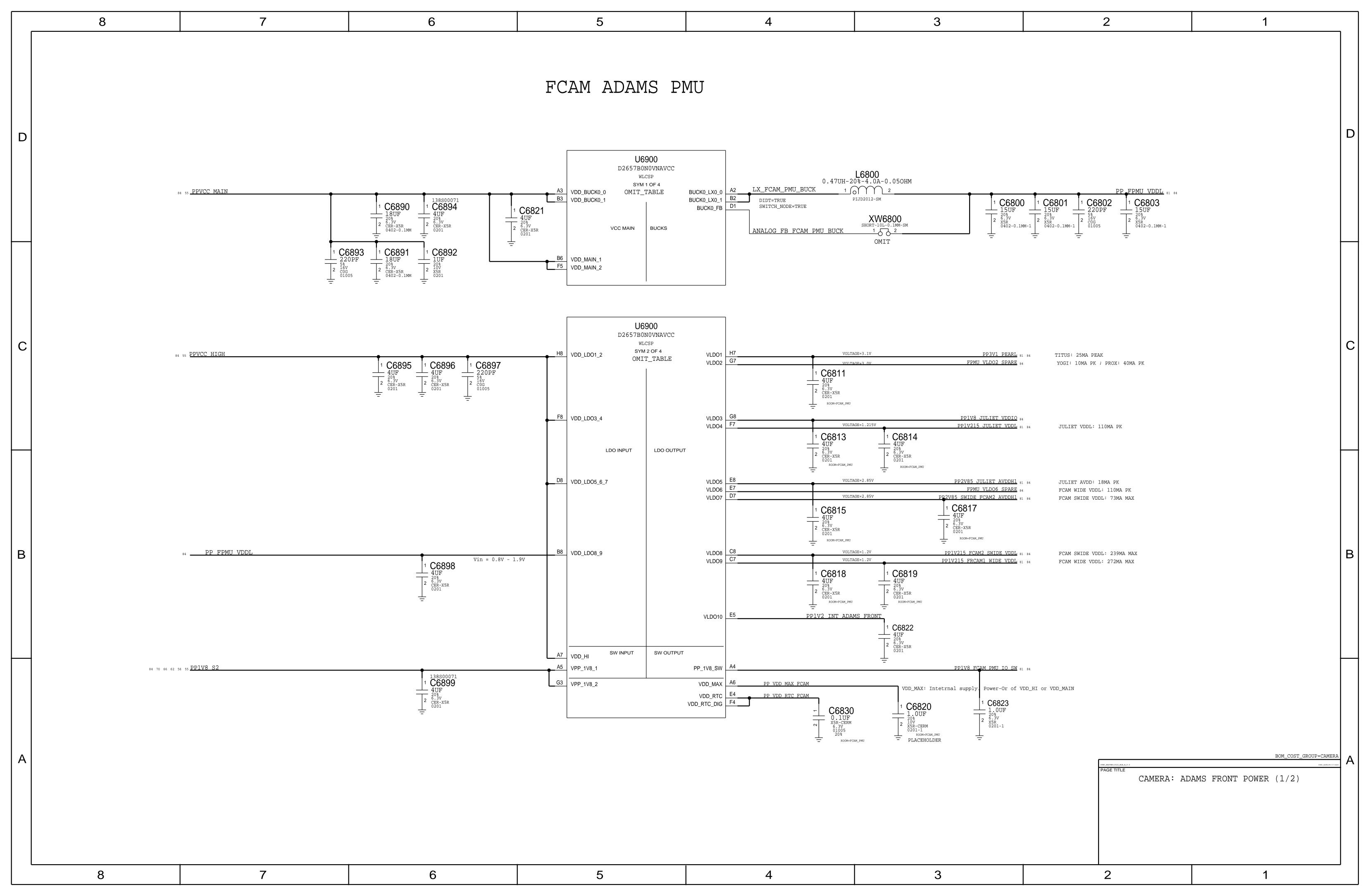


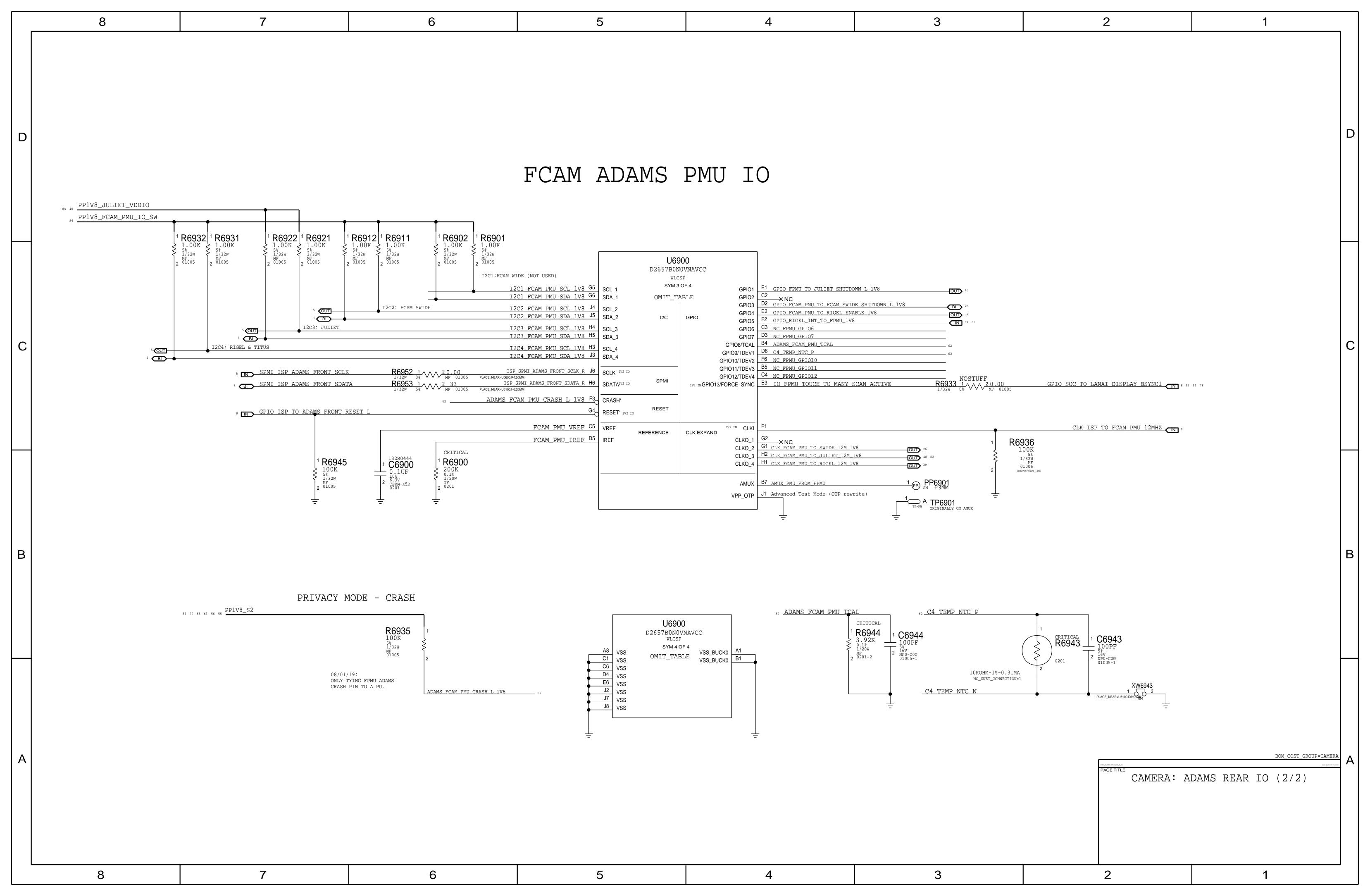


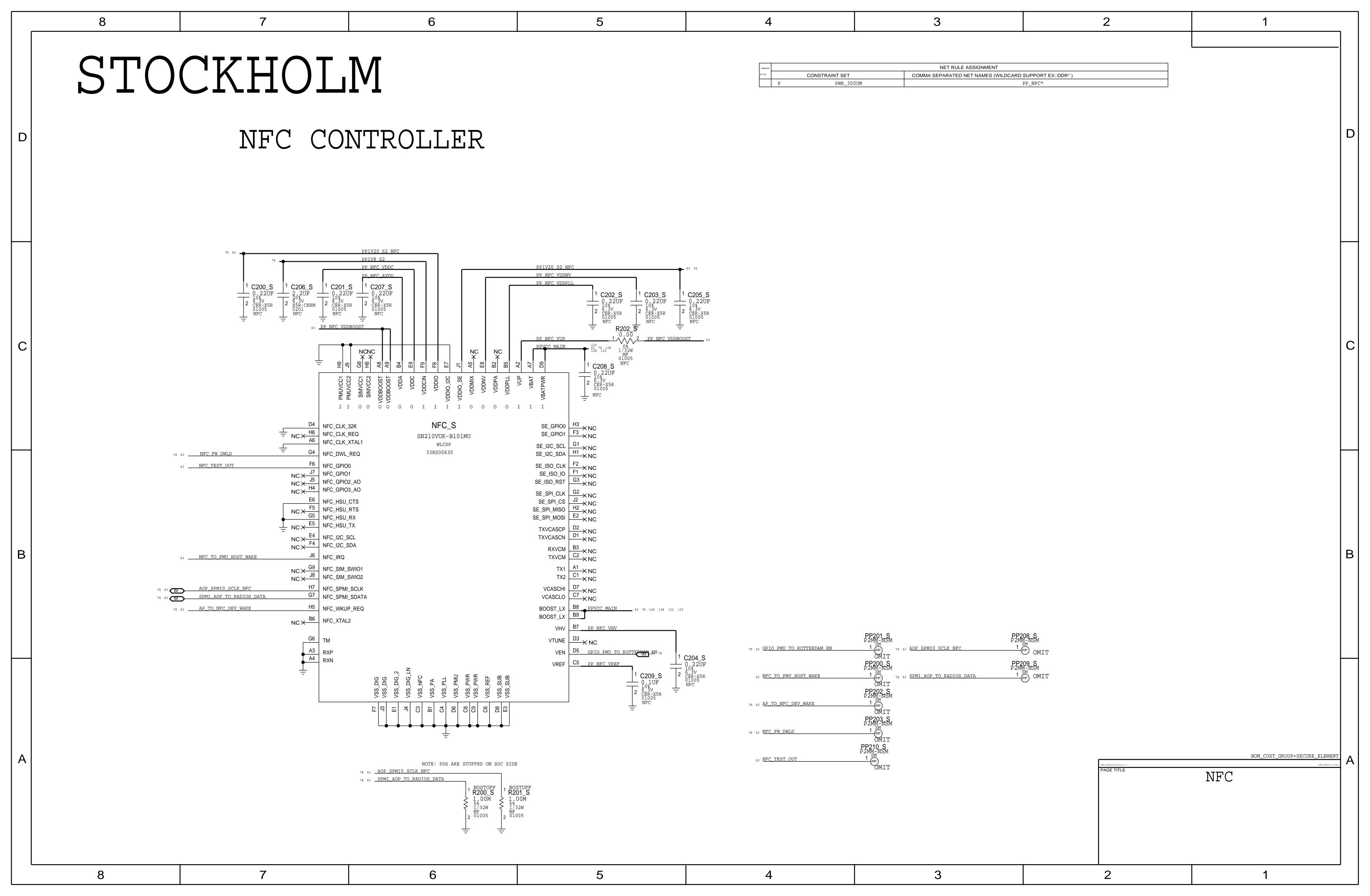


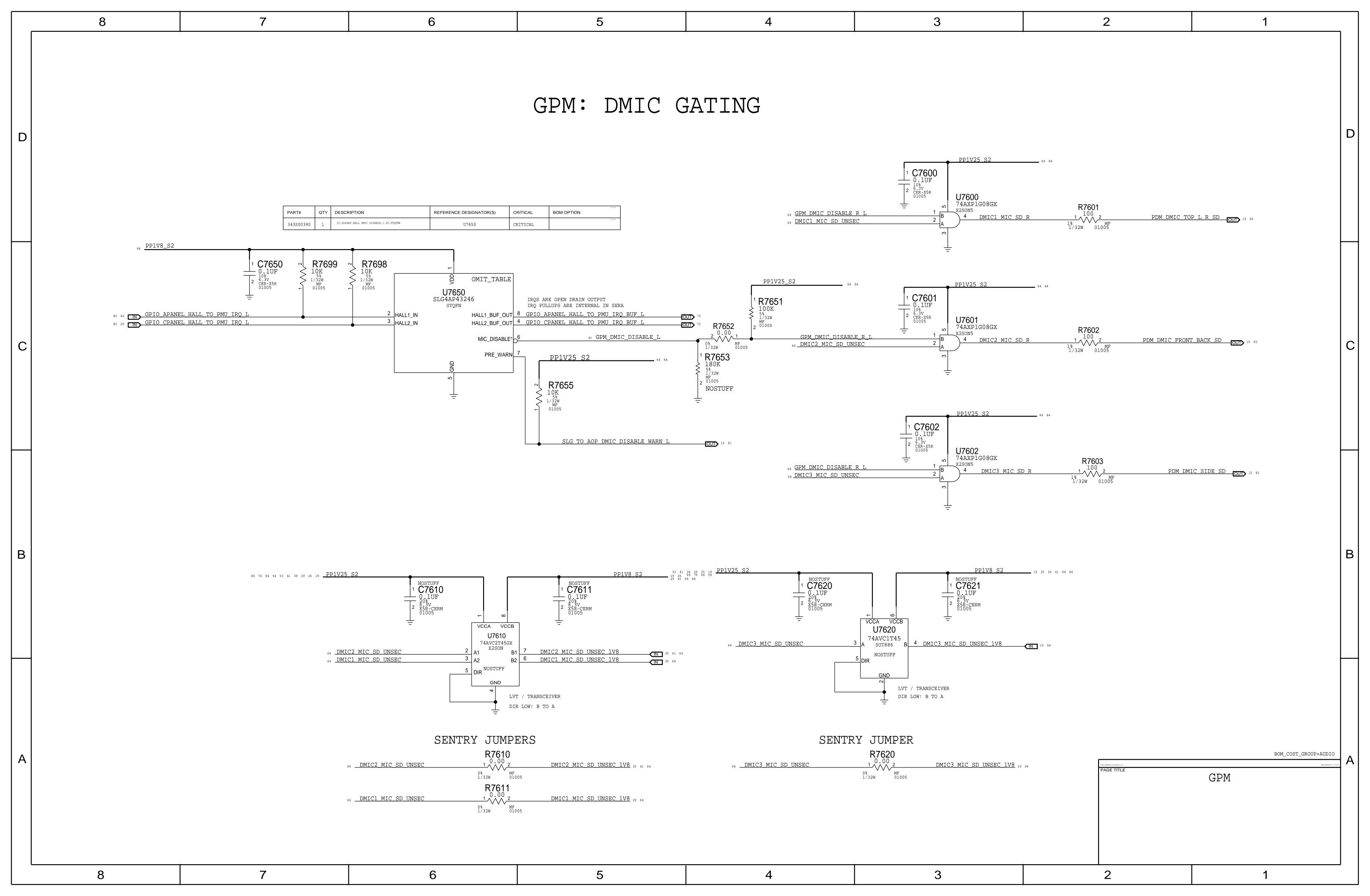


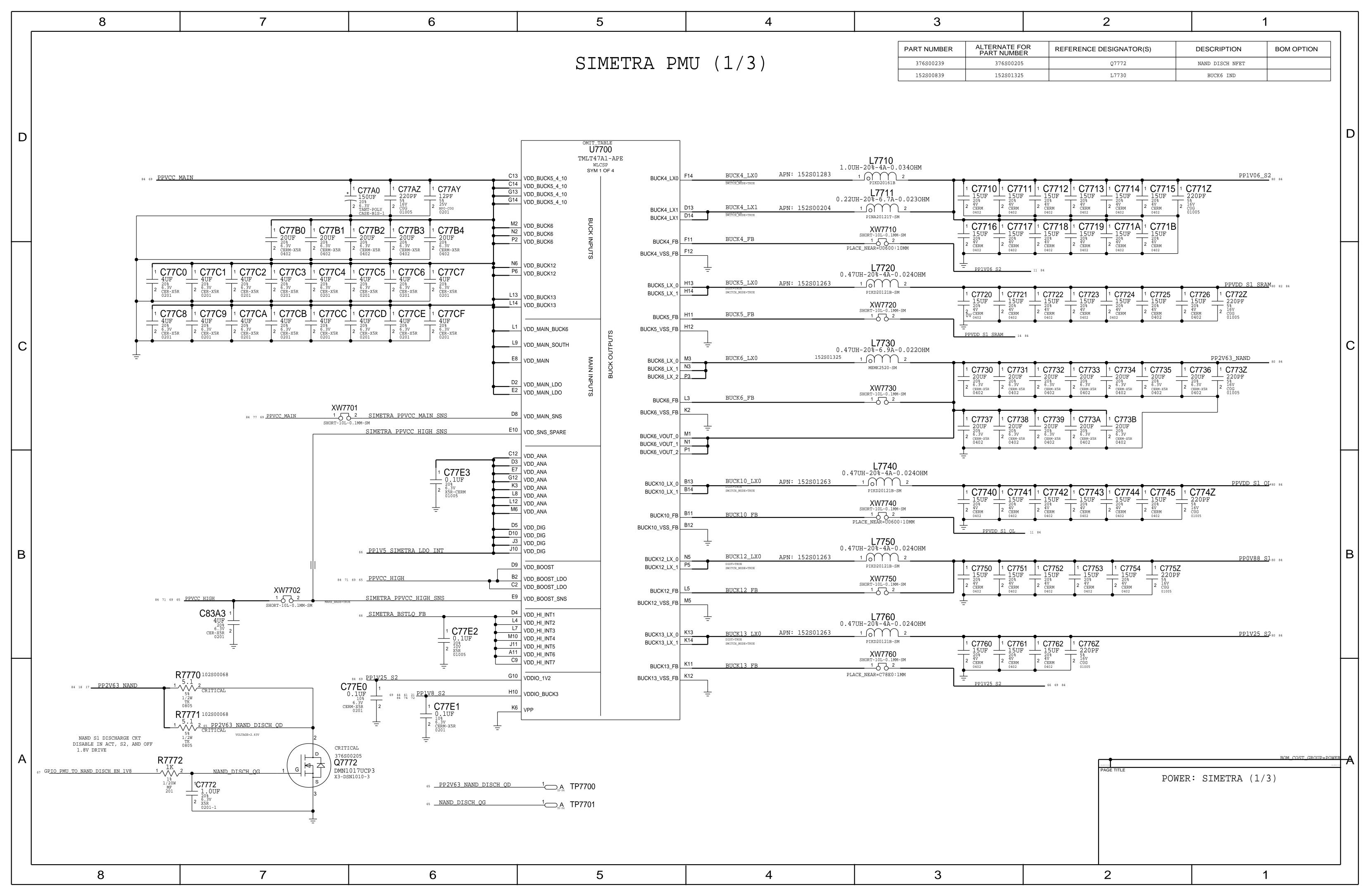


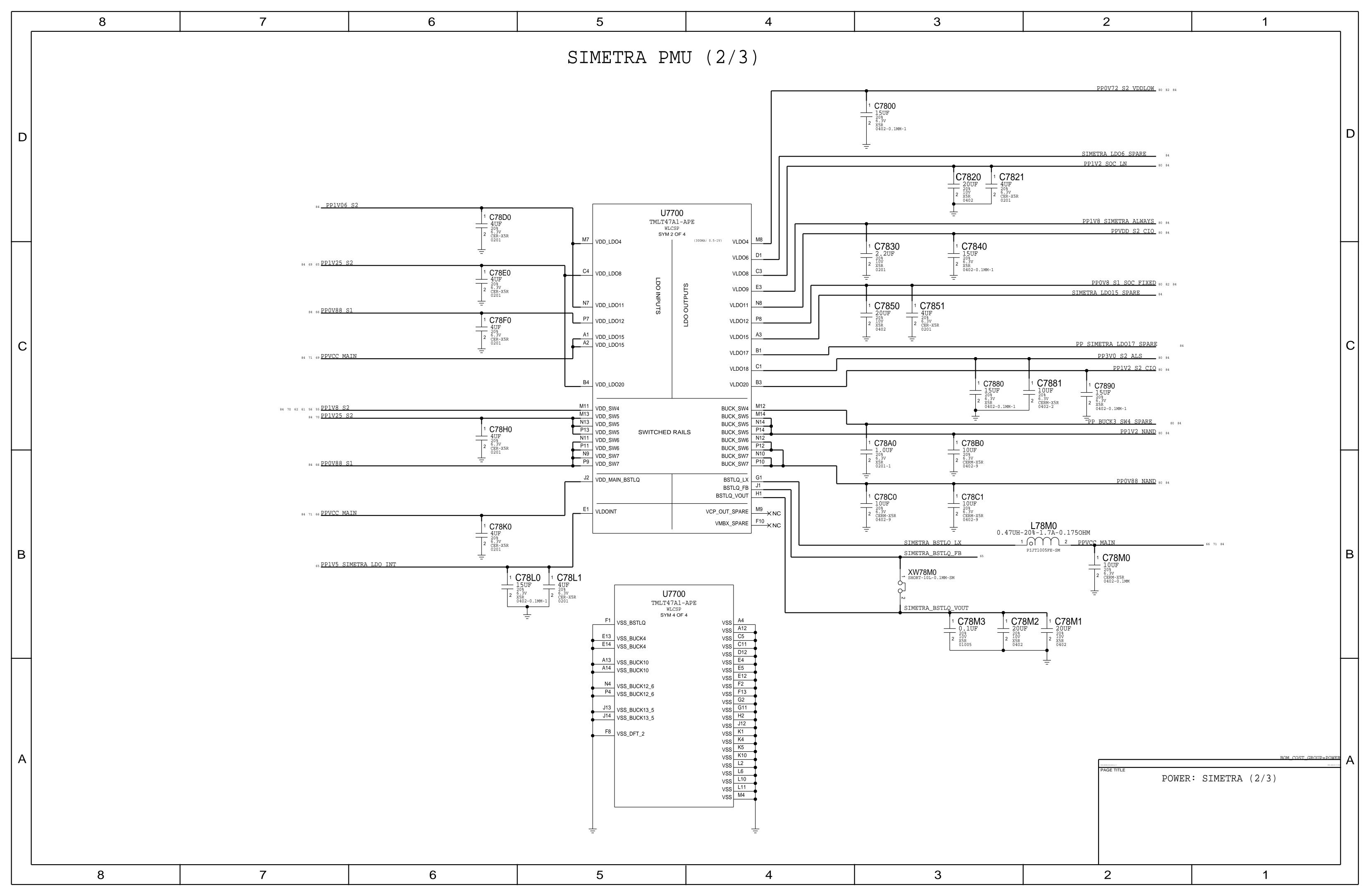


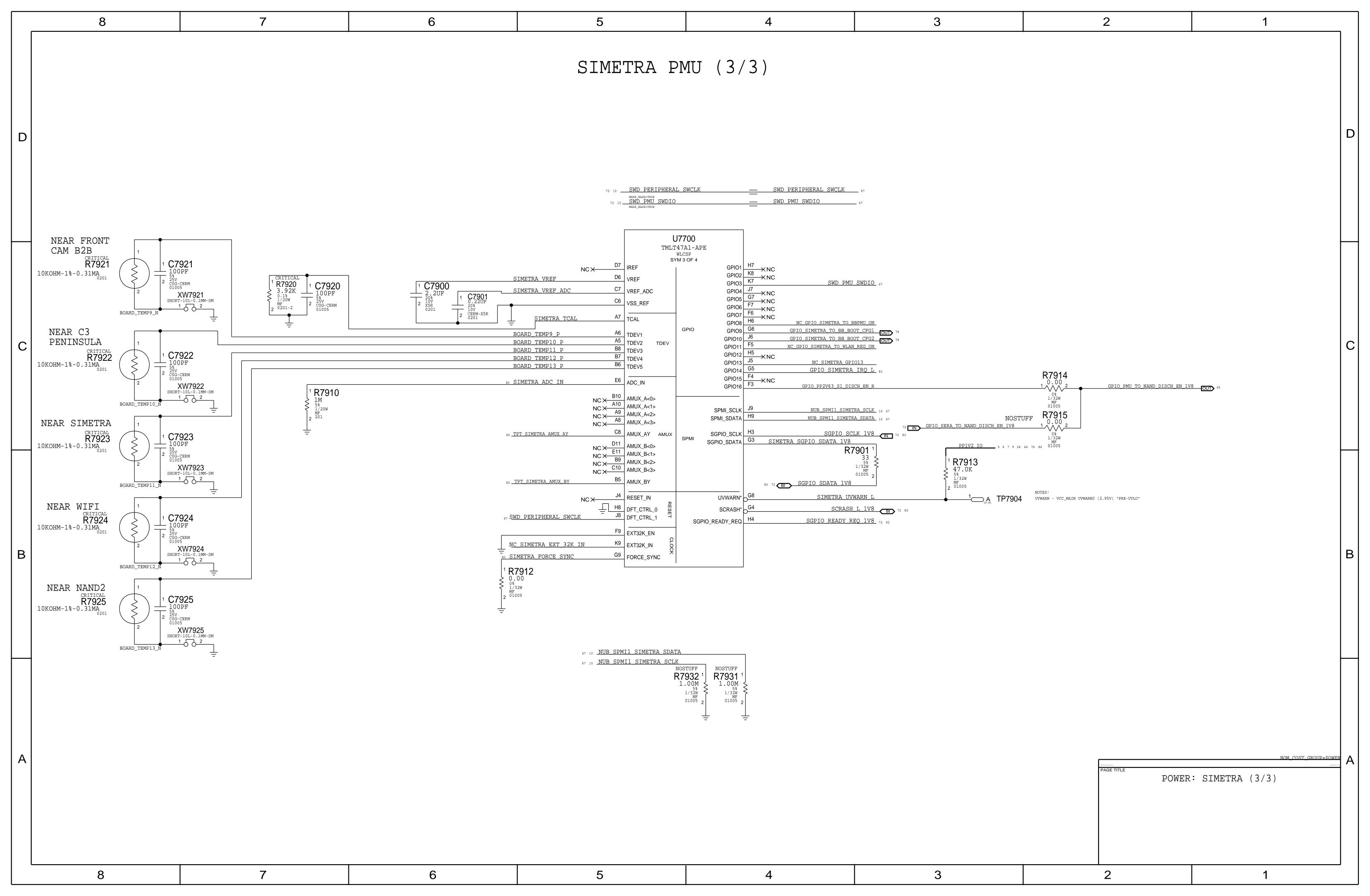


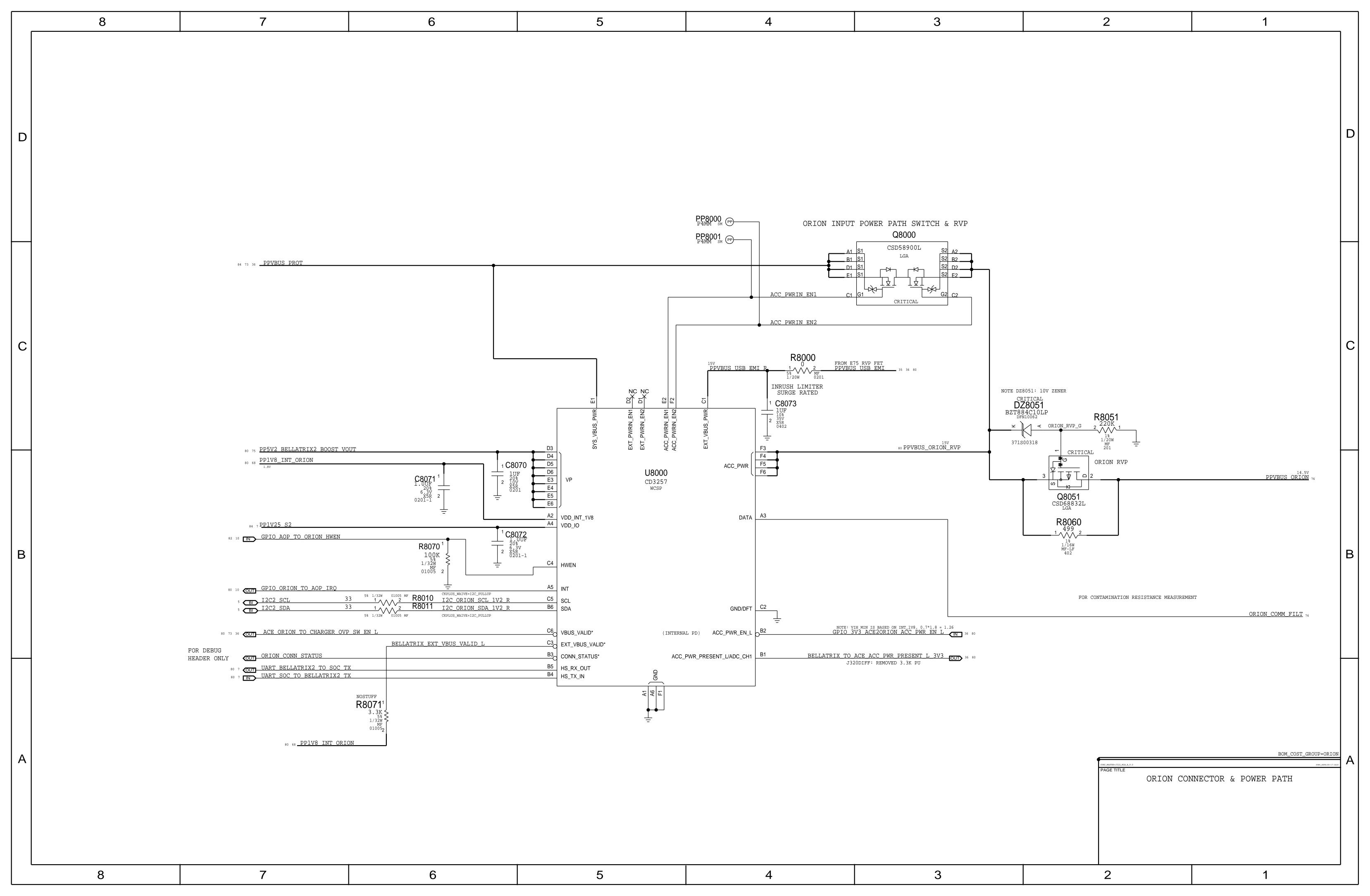


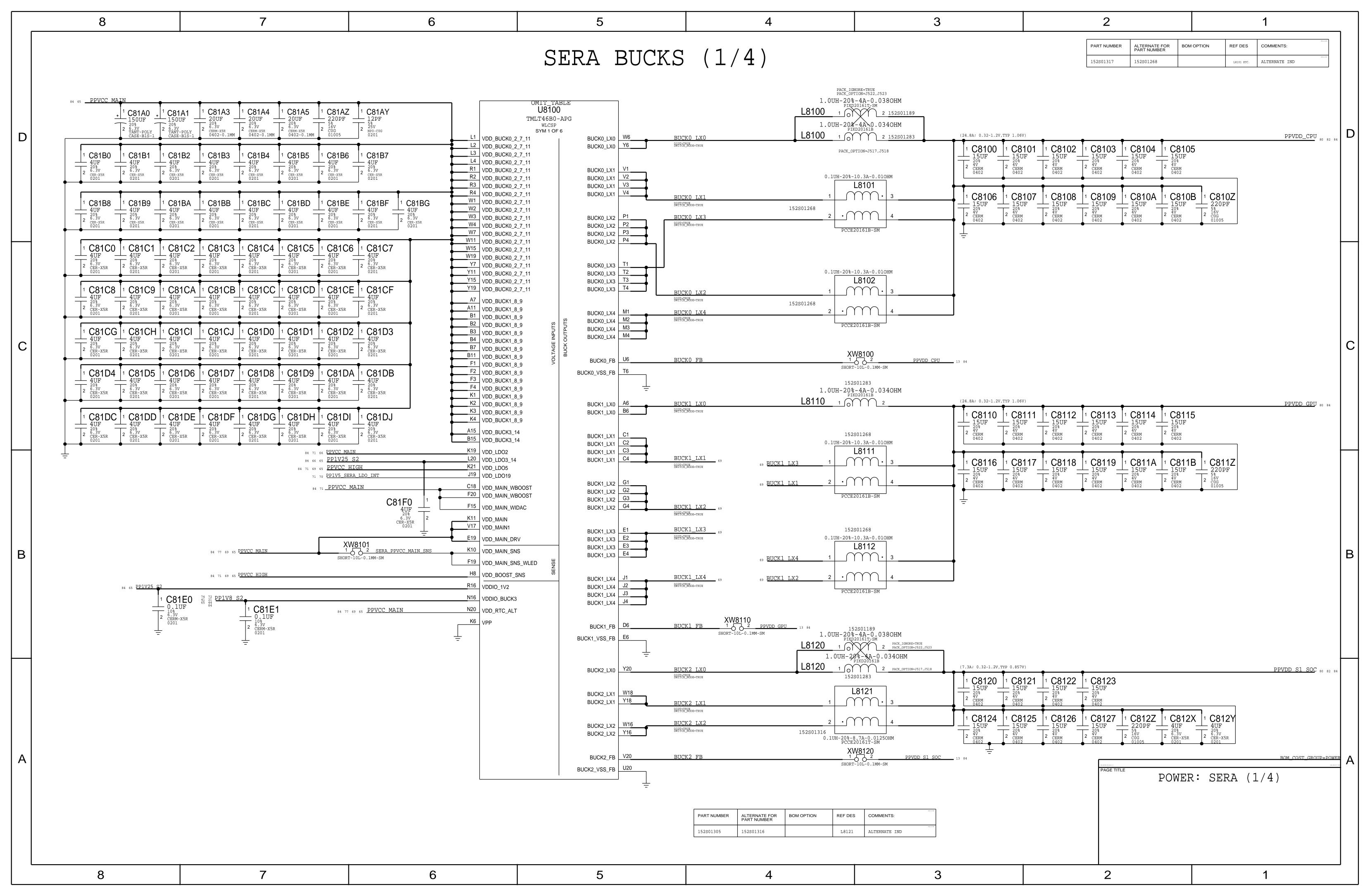


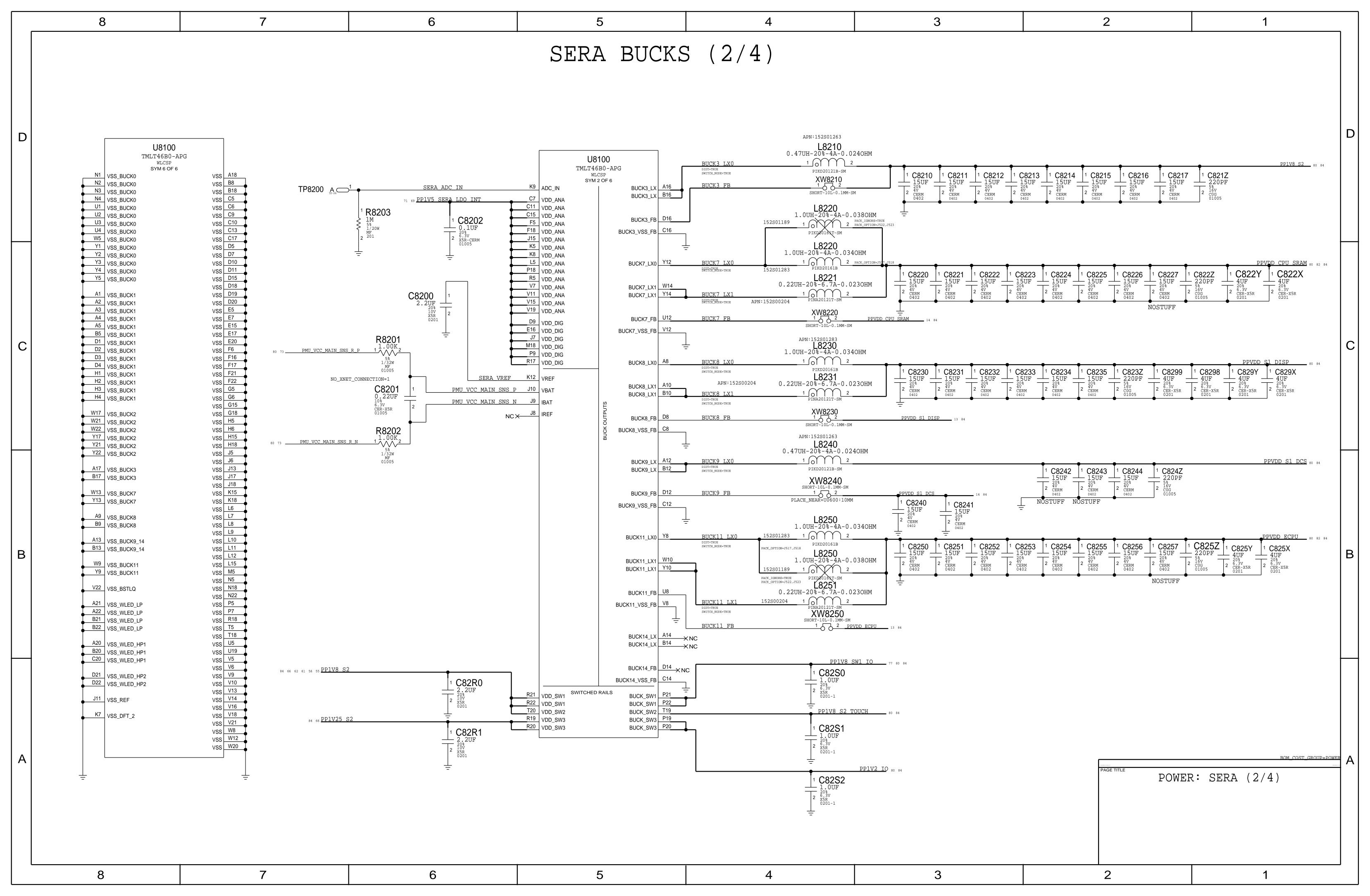


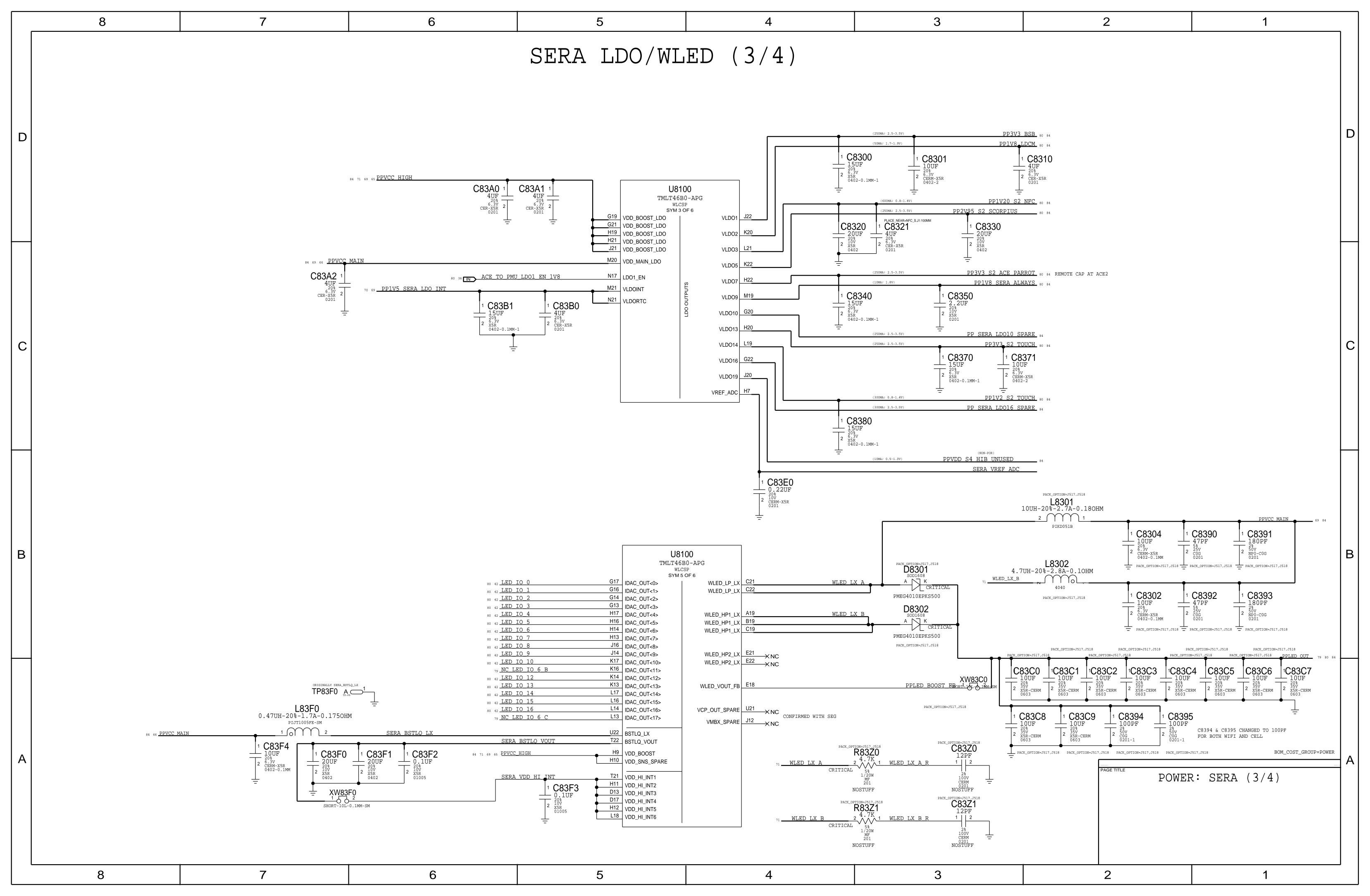


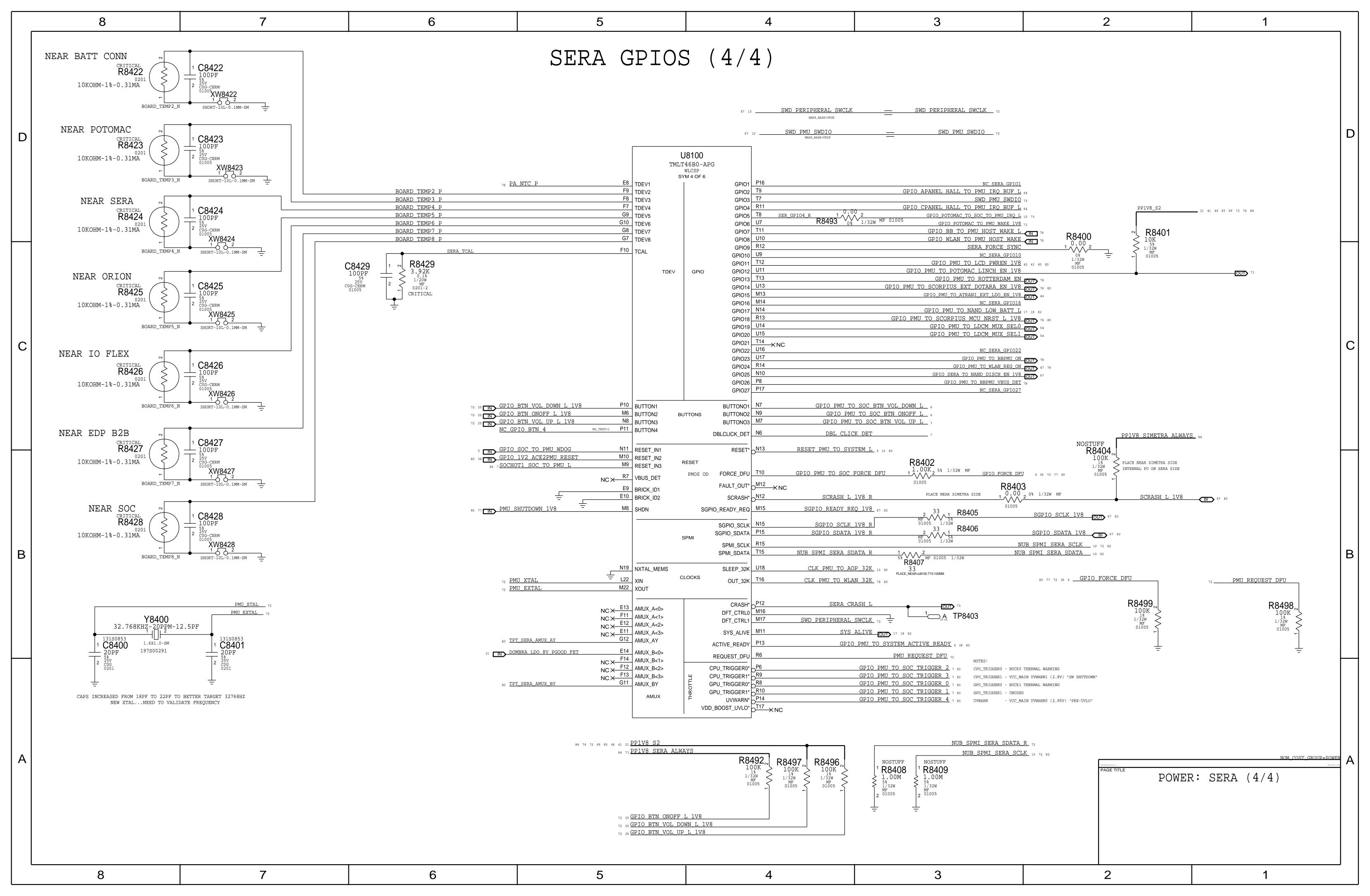


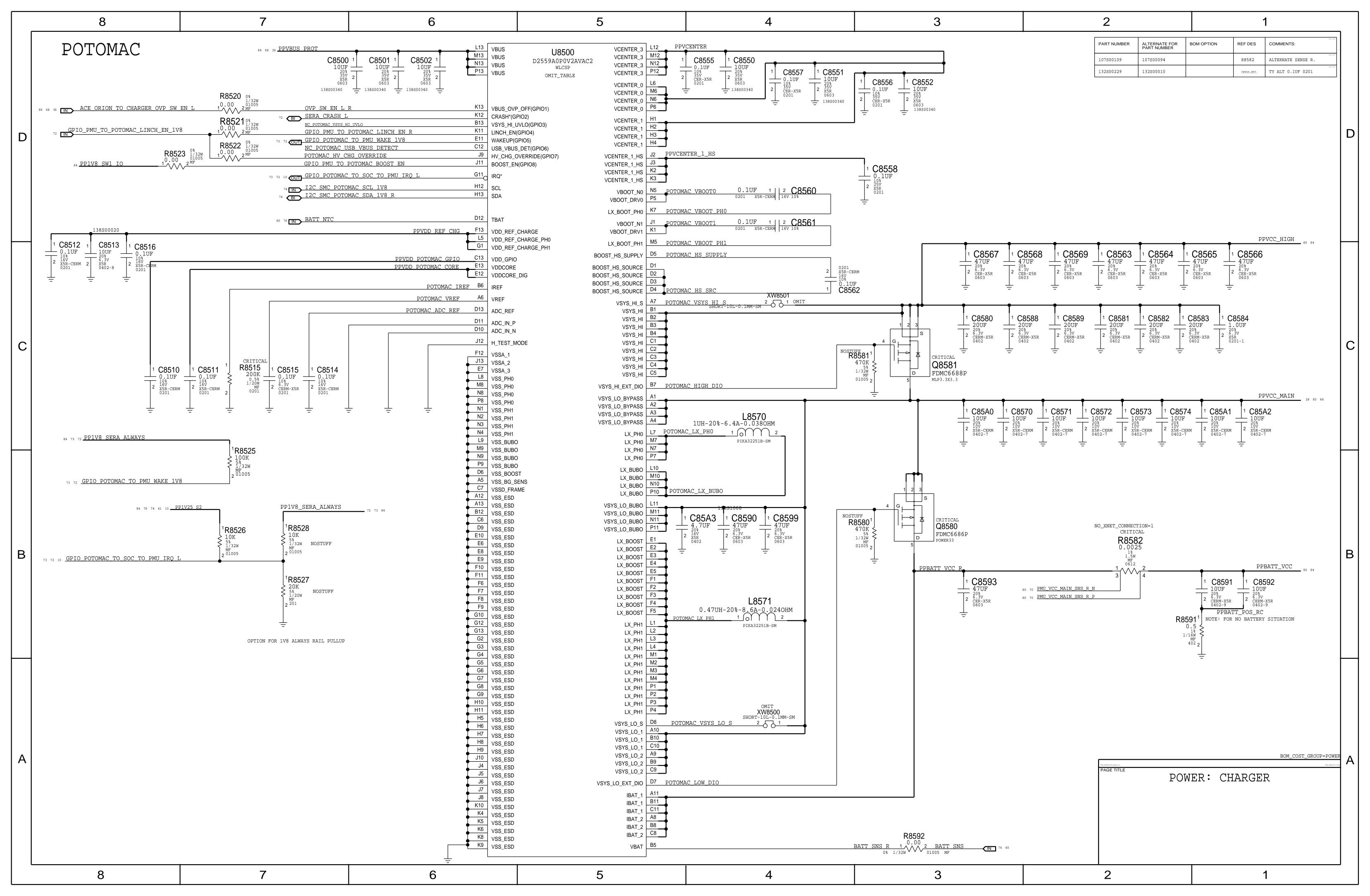


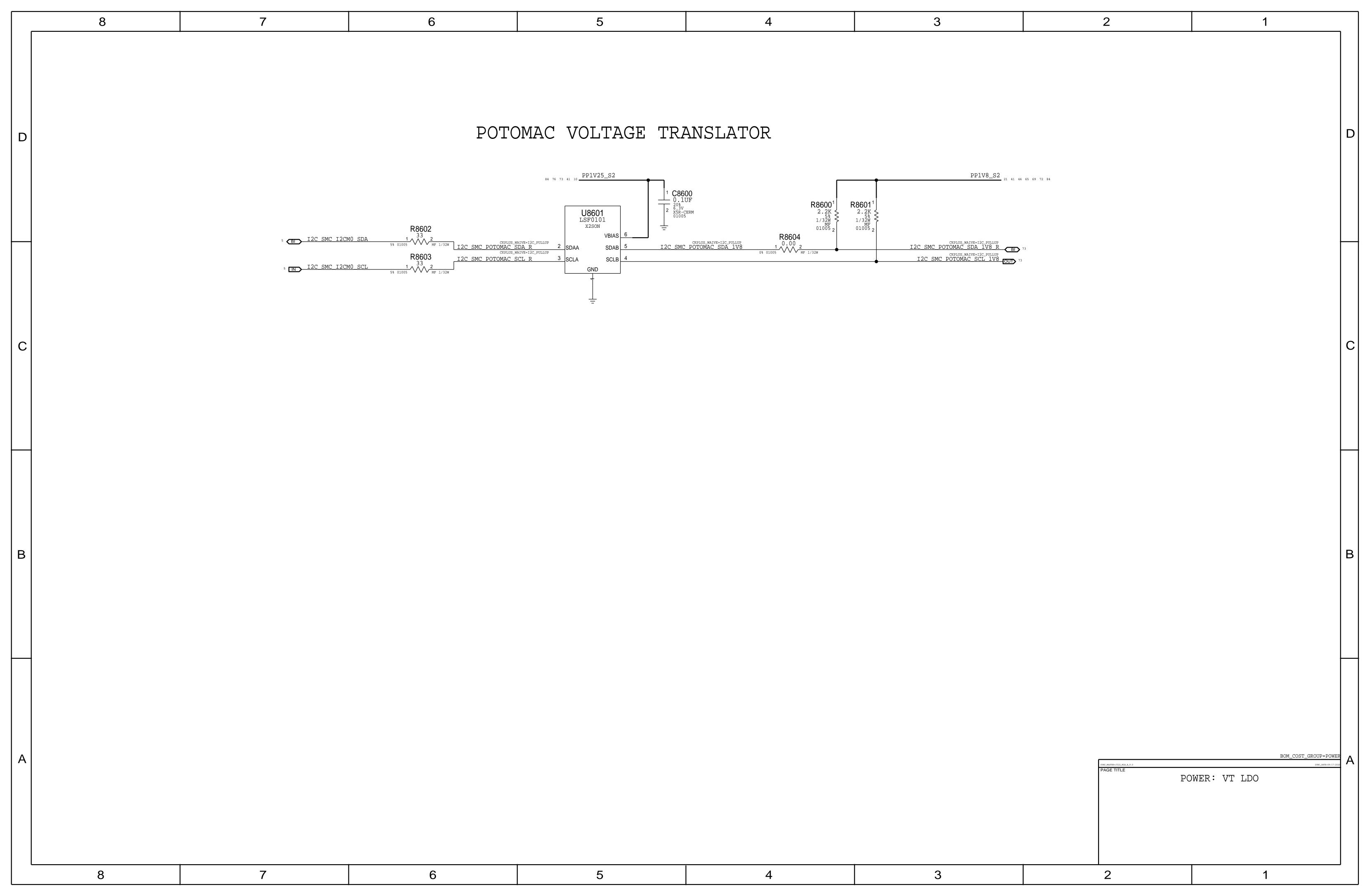


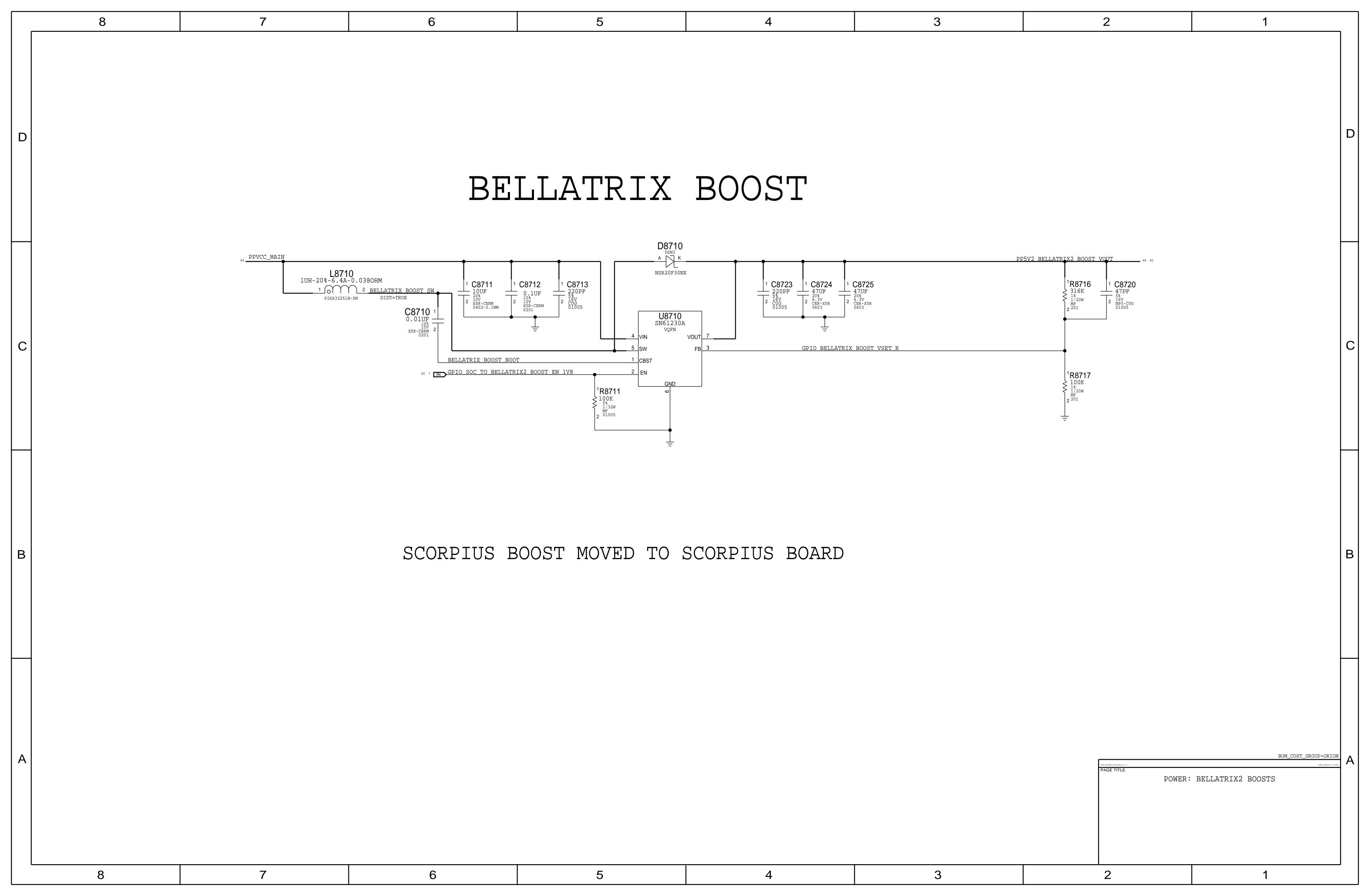


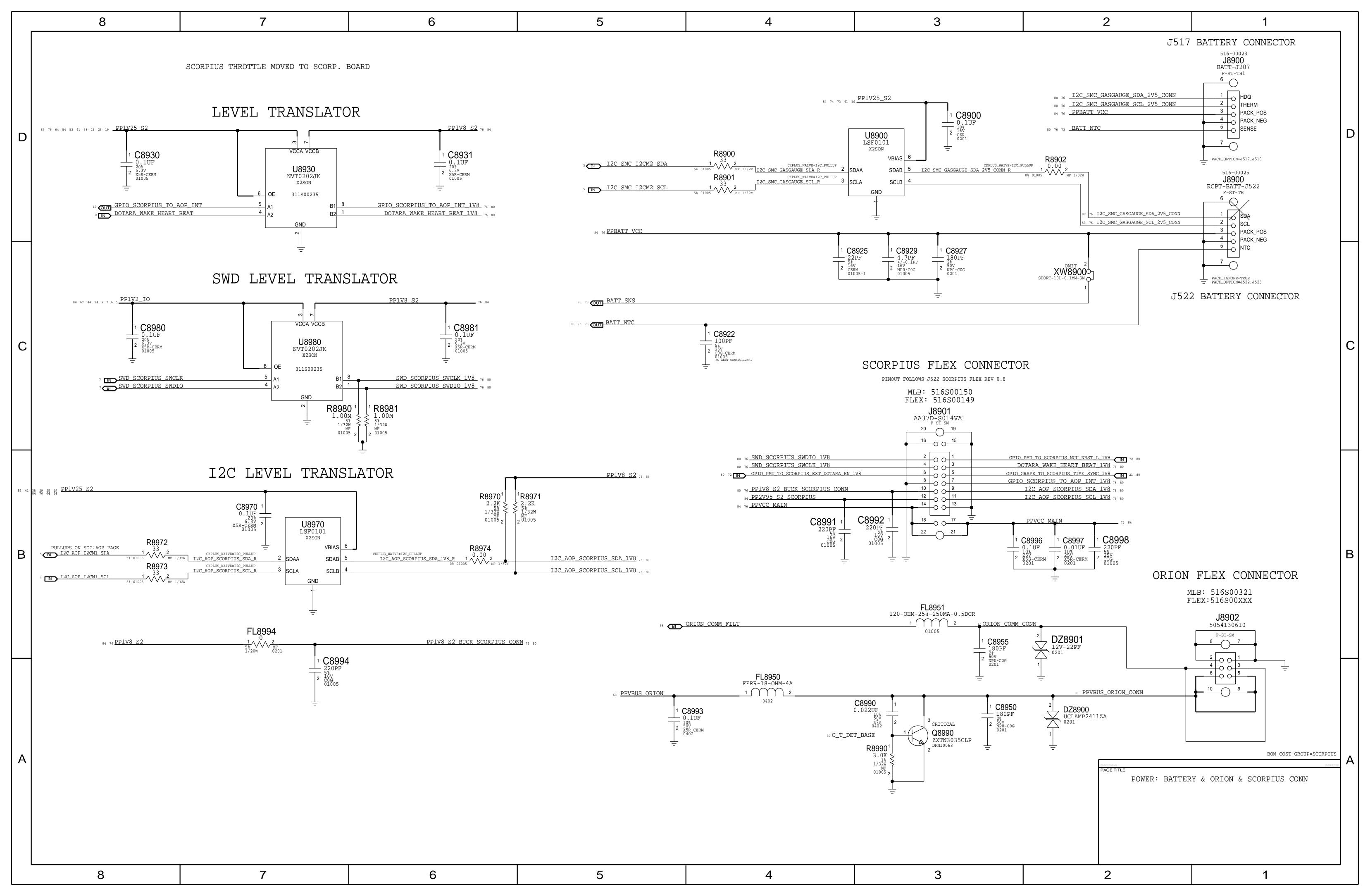


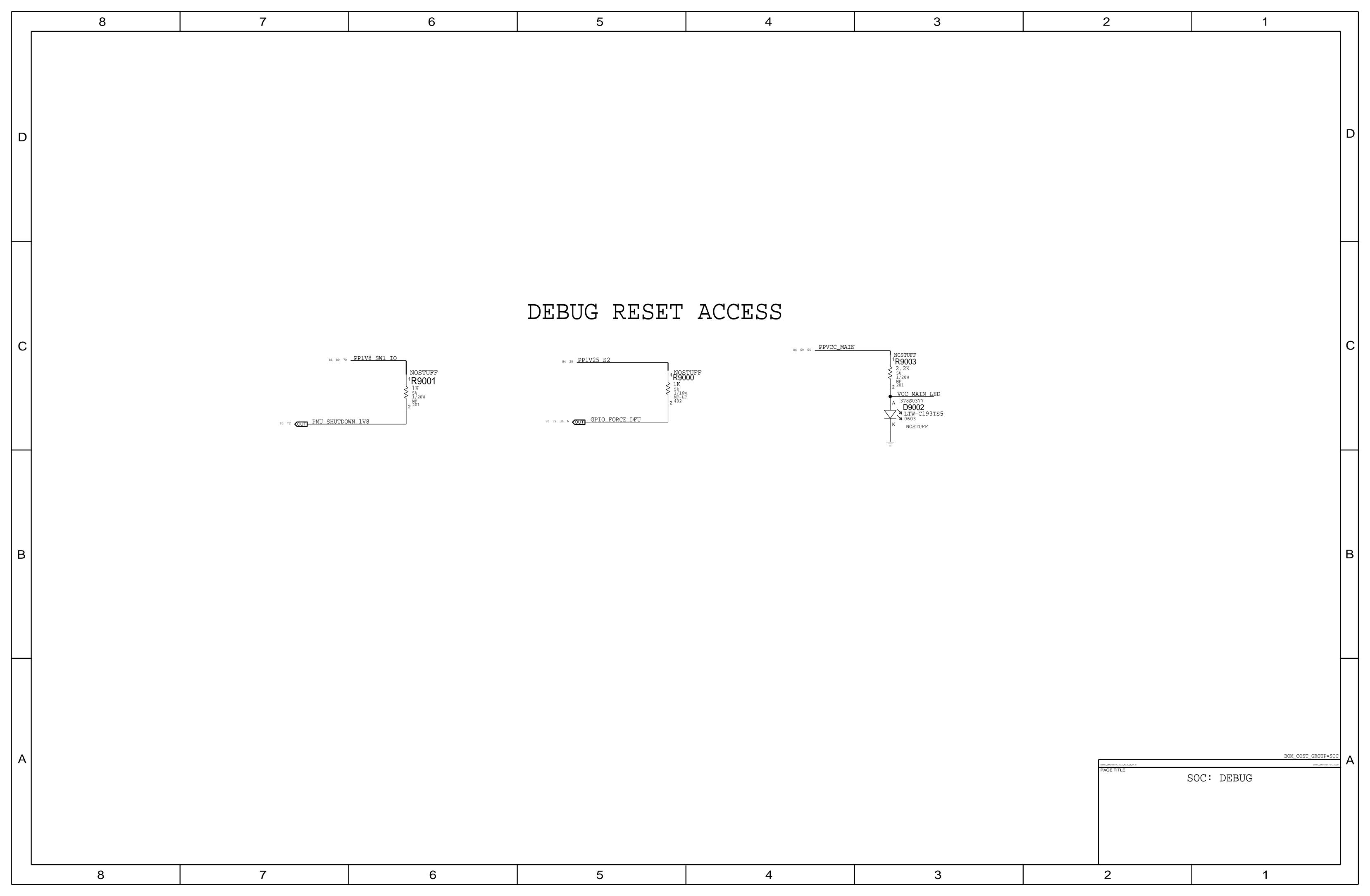


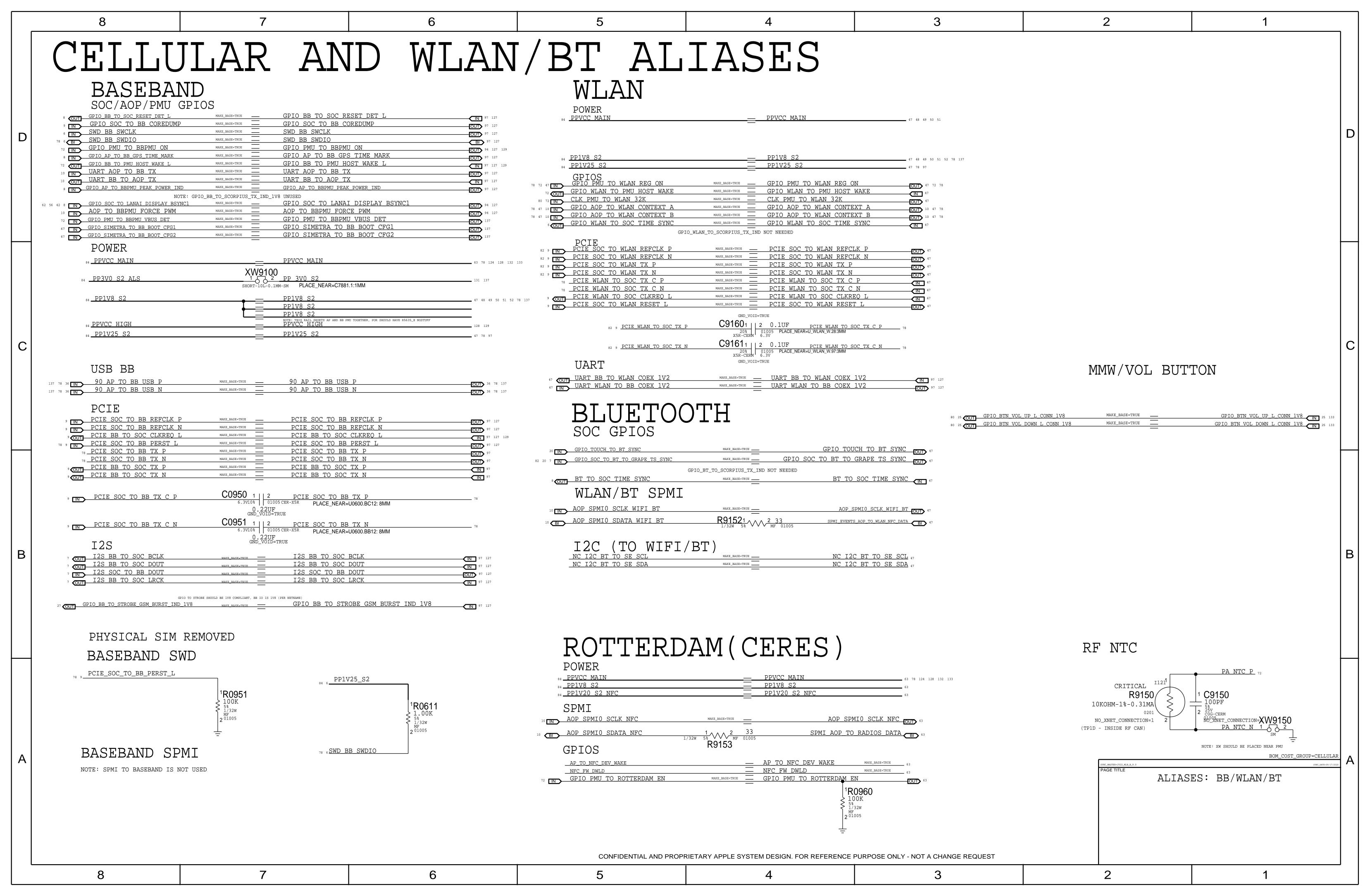


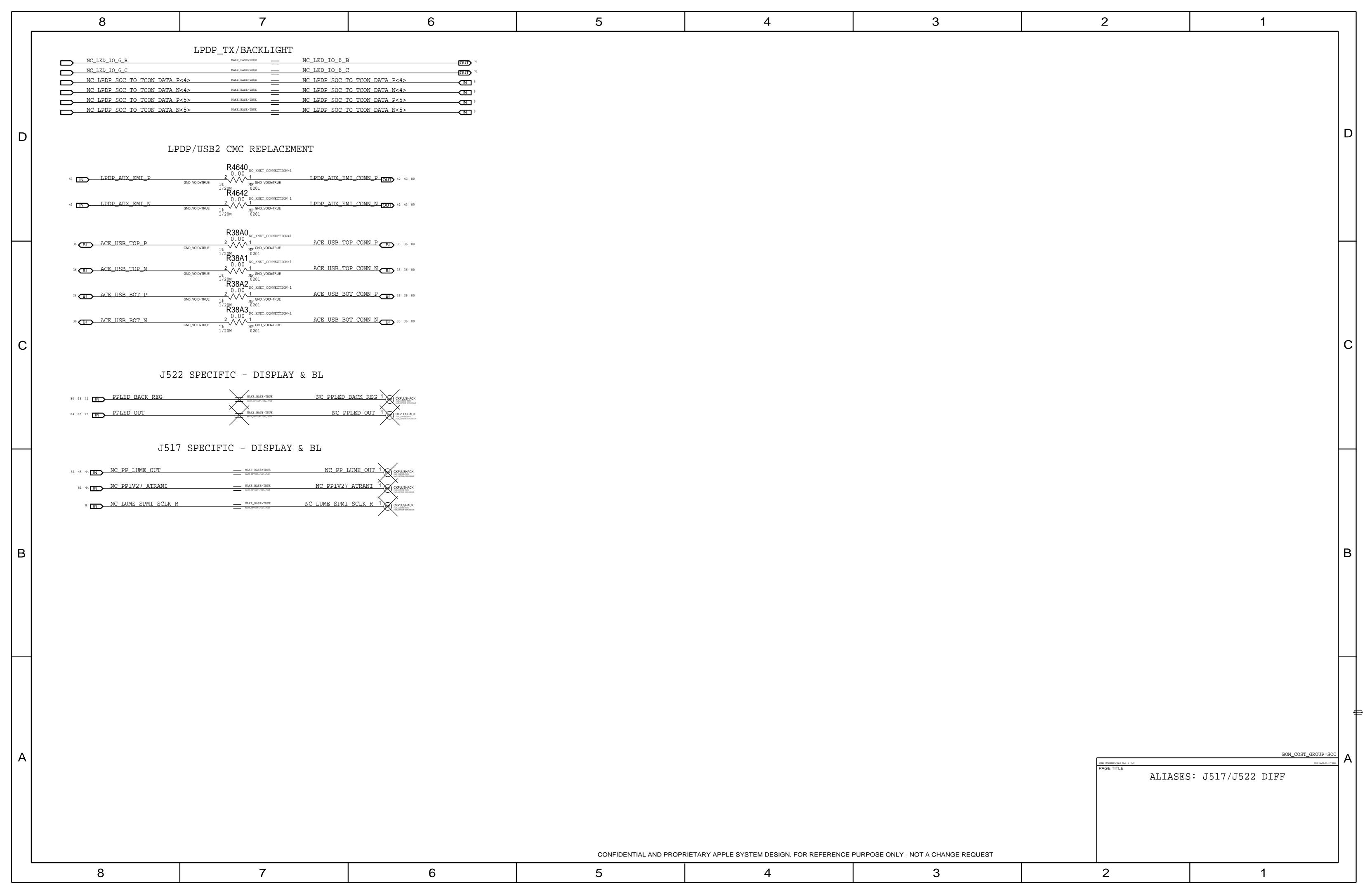


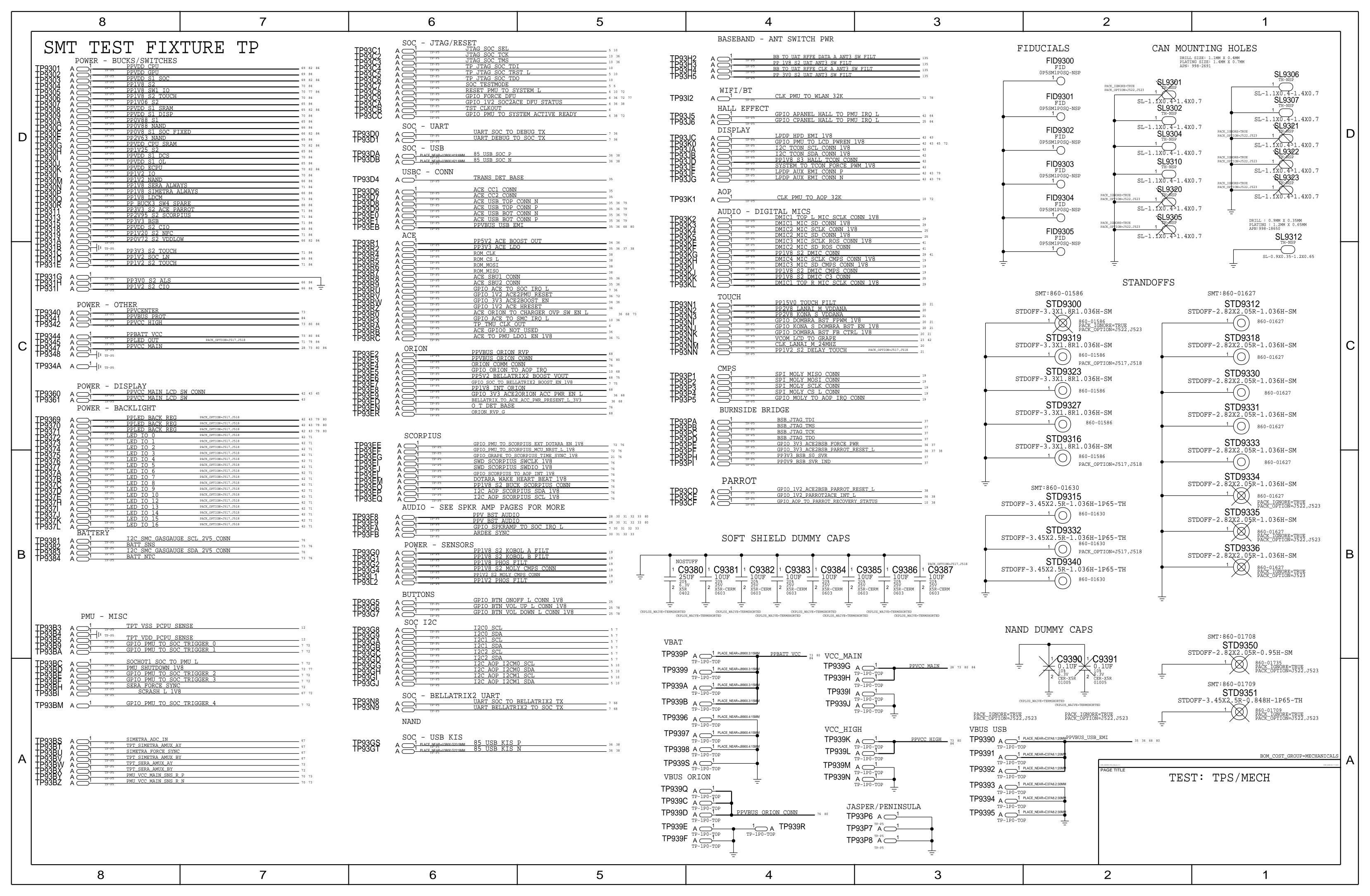


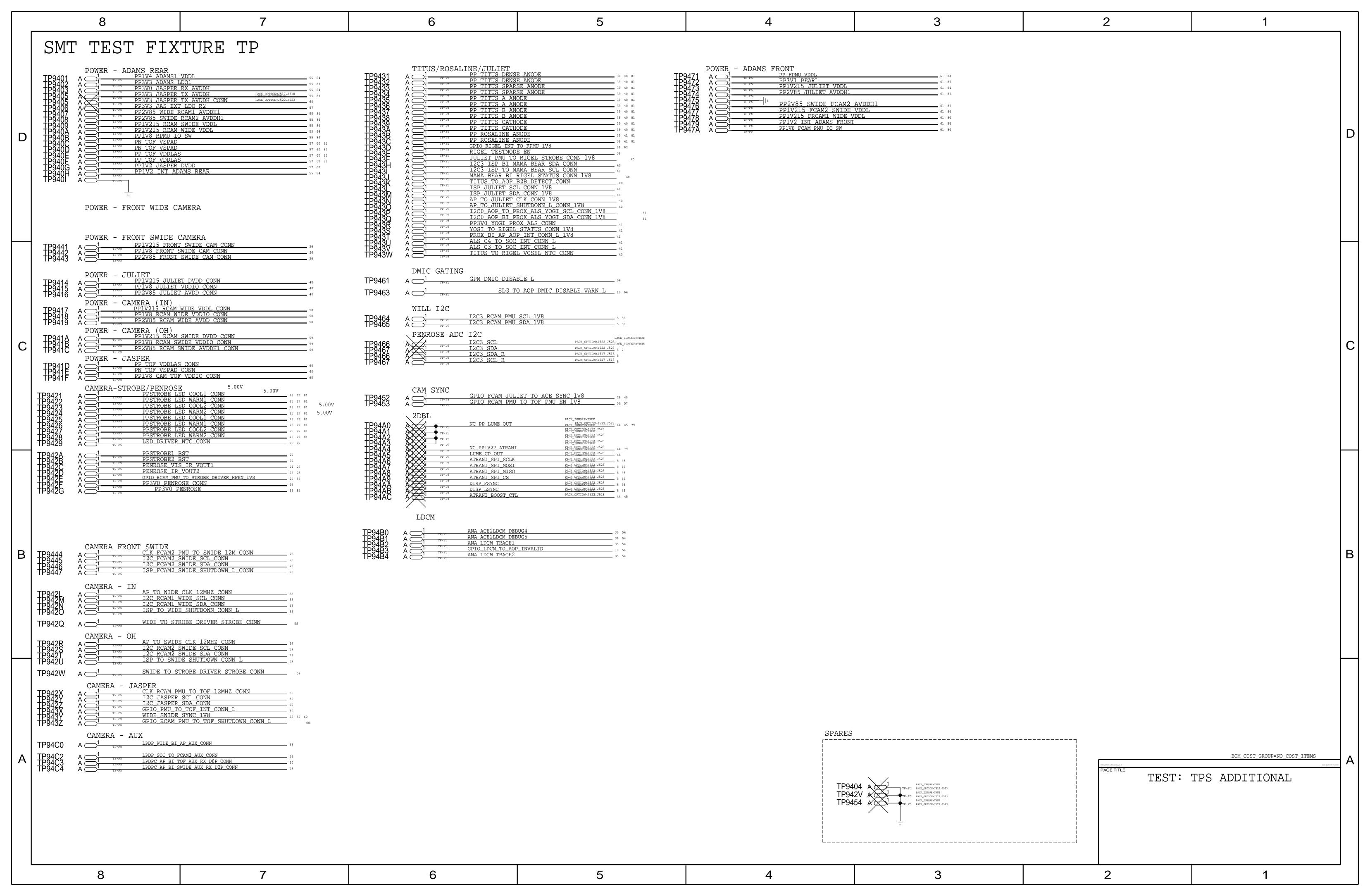


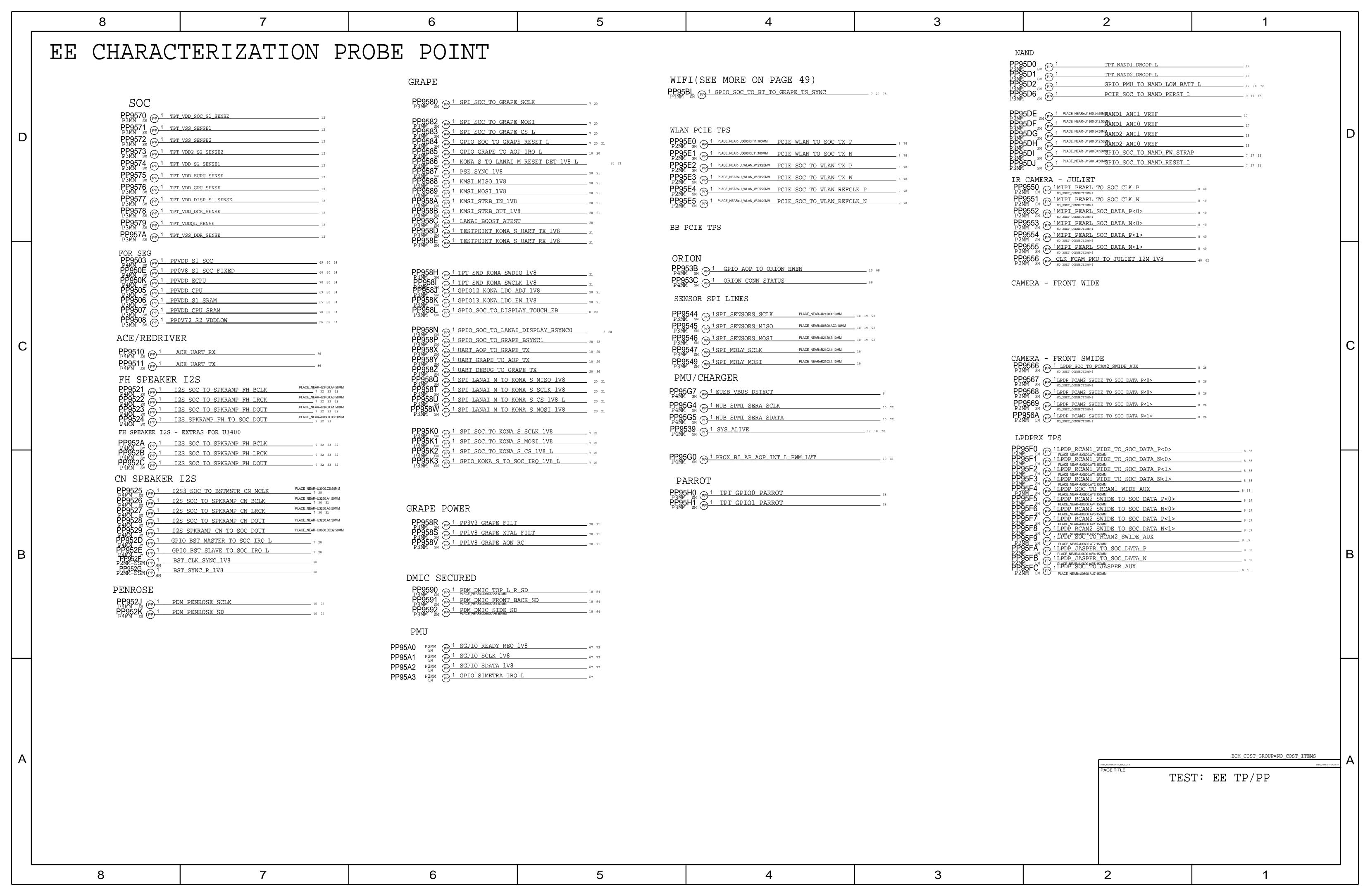


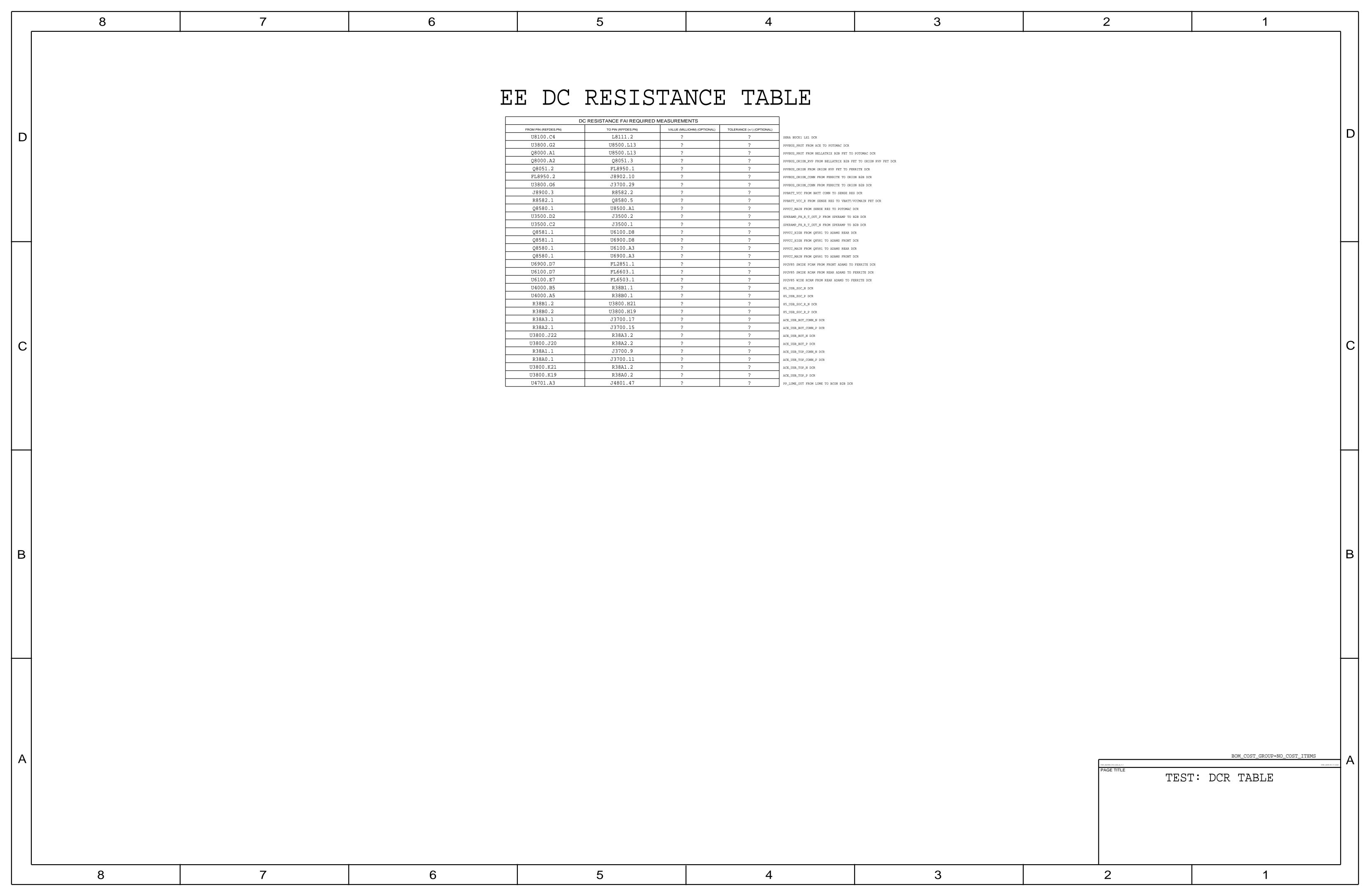


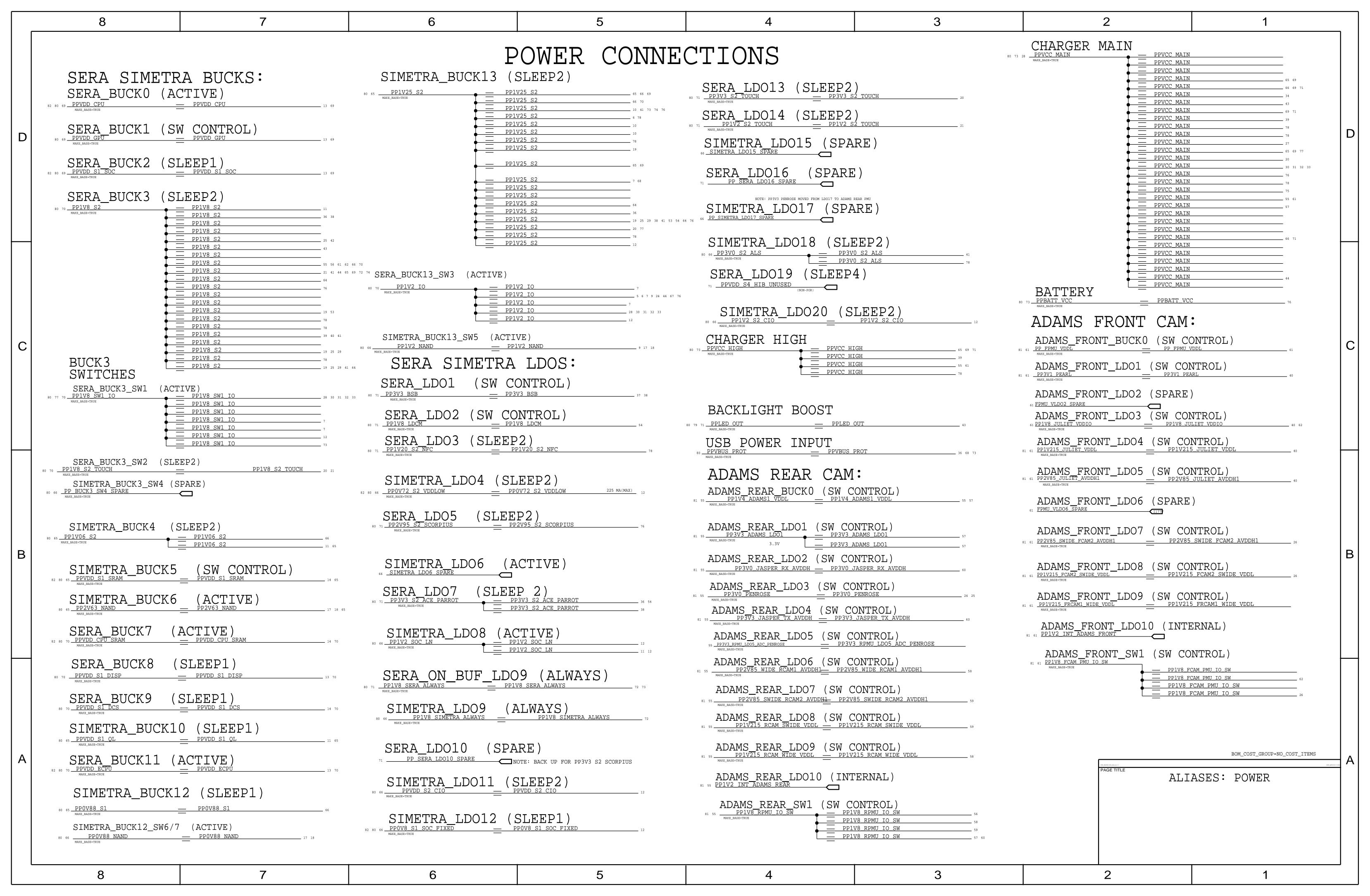












		8	7	6	5	4	3	2	1
	BOM	TABLES			CONFIDE	ENTIAL AND PROPRIETARY APPLE S	SYSTEM DESIGN. FOR REFERENCE C	ONLY - NOT A CHANGE REQUEST	
	ALT	r Tables	5	OMIT	rable				
D	PART NUMBER	PART NUMBER	REF DES COMMENTS:	PART# QTY DESCRIPTION 118S00050 1 RES,MF,5.6K OHM,1%,1/32W,01005	REFERENCE DESIGNATOR(S) R630_E RF_SKU: WW+KOLKATA				D
	197S00254 197S00283	197S00250 ? 197S00250 ?	Y601_E EPS,38.4MHZ,8PF,1612 Y601_E KYC,38.4MHZ,8PF,1612	118S0730 1 RES,MF,12.0K OHM,1%,1/32W,01005 118S00050 1 RES,MF,5.6K OHM,1%,1/32W,01005	R630_E RF_SKU:WW R631_E BOARD_REV:PROTO0				
	PART NUMBER	PART NUMBER	REF DES COMMENTS:	118S0730 1 RES,MF,12.0K OHM,1%,1/32W,01005 118S0626 1 RES,MF,100.0K OHM,1%,1/32W,01005 118S00193 1 RES,MF,36.5K OHM,1%,1/32W,01005	R631_E BOARD_REV:PROTO1 R631_E BOARD_REV:PROTO2 R631_E BOARD_REV:EVT				
	152S01350 152S01350 152S01350	152S01453 ? 152S01453 ? 152S01453 ?	L401_E IND,MLD,0.47UH,20%,4.8A,26 MOHM,0805,H0.8 L402_E IND,MLD,0.47UH,20%,4.8A,26 MOHM,0805,H0.8 L403_E IND,MLD,0.47UH,20%,4.8A,26 MOHM,0805,H0.8	118S0868 1 RES,MF,47.5K OHM,1%,1/32W,01005 118S00136 1 RES,TK,60.4K OHM,1%,1/32W,01005	R631_E BOARD_REV: CRB R631_E BOARD_REV: DVT				
	152S01350 152S01350	152S01453 ? 152S01453 ?	L406_E IND, MLD, 0.47UH, 20%, 4.8A, 26 MOHM, 0805, H0.8 L407_E IND, MLD, 0.47UH, 20%, 4.8A, 26 MOHM, 0805, H0.8	118S0768 1 RES,MF,75.0K OHM,1%,1/32W,01005 118S0626 1 RES,MF,100K OHM,1%,1/32W,01005 118S0737 1 RES,MF,124K OHM,1%,1/32W,01005	R631_E BOARD_REV:PVT R632_E J518 R632_E J523				
	152S01352 152S01352	152S01454 ? 152S01454 ?	L404_E IND,PWR,1.0UH,20%,3.3A,60MDHM,2012 L405_E IND,PWR,1.0UH,20%,3.3A,60MDHM,2012	118S00122 1 RES,MF,27.0K OHM,1%,1/32W,01005	R631_E BOARD_REV:PRE-PROTO2				
	PART NUMBER	ALTERNATE FOR BOM OPTION PART NUMBER	REF DES COMMENTS:						
C	335S00013 107S0245	335S0894 ? 107S0244 ?	EEPROM_E EEPROM, 8KBIT, I2C R607_E THERMISTOR, NTC, 100K OHM, 1%, B=4250, 01005		EPT ESIM. (337S00848: PROD) CHINA CONFIGS WILL USE PROD-CN PARTS.(337S00848: PROD-CN)			С
	117S00012	117S00040 ?	FL5921_E,FL5922_E,FL5924_E RES,O OHM,JUMPER,1/	/10W,4.5A,0201					
В									В
A								SYNC_MASTER=RADIO_REV_3.37 PAGE TITLE	SYNC_DATE=10/08/2020 A
								B	OM TABLES
	BOM_COST_GROUP=NO_COS	OST_ITEMS							
		8	7	6	5	4	3	2	1

