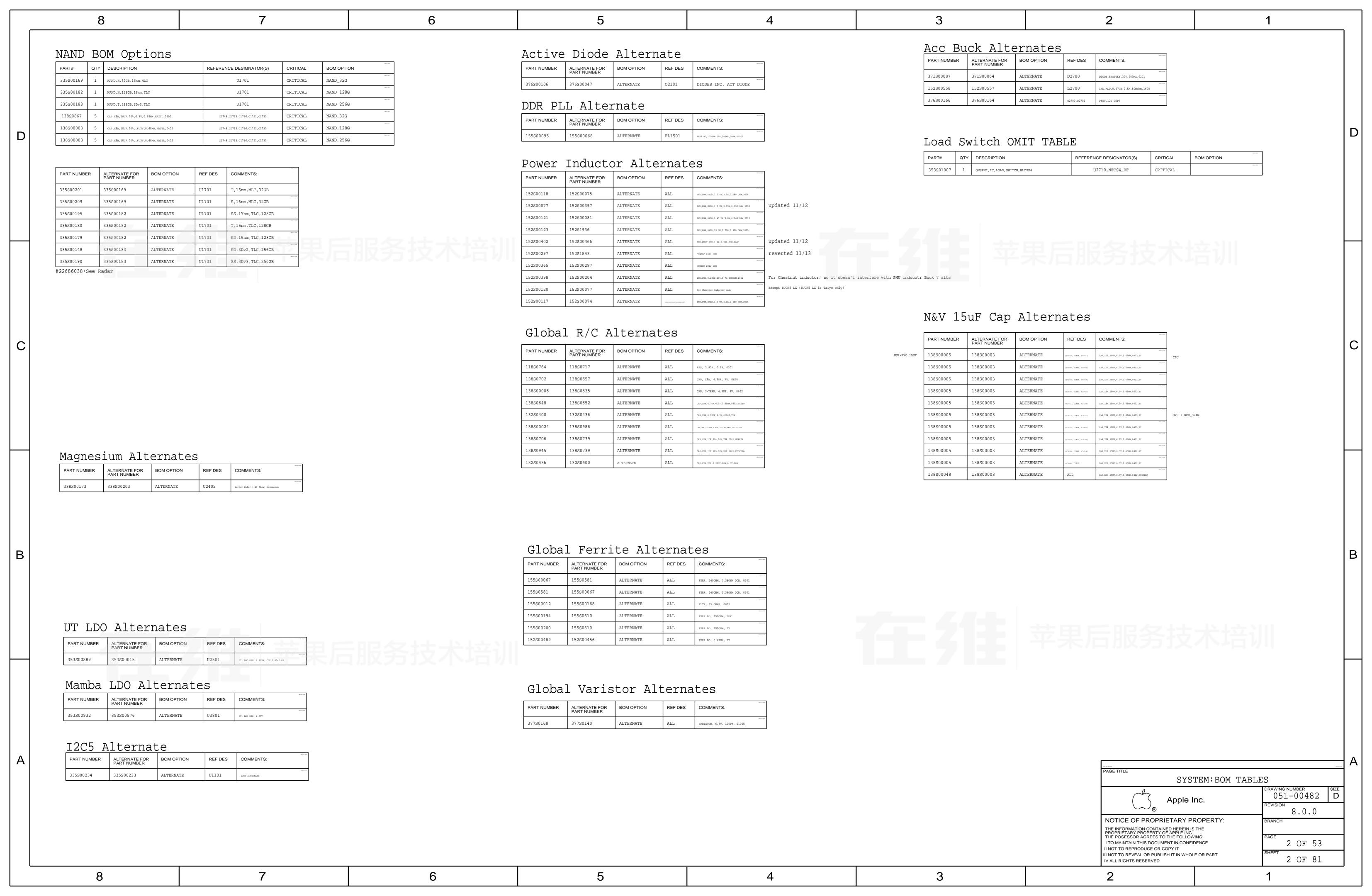
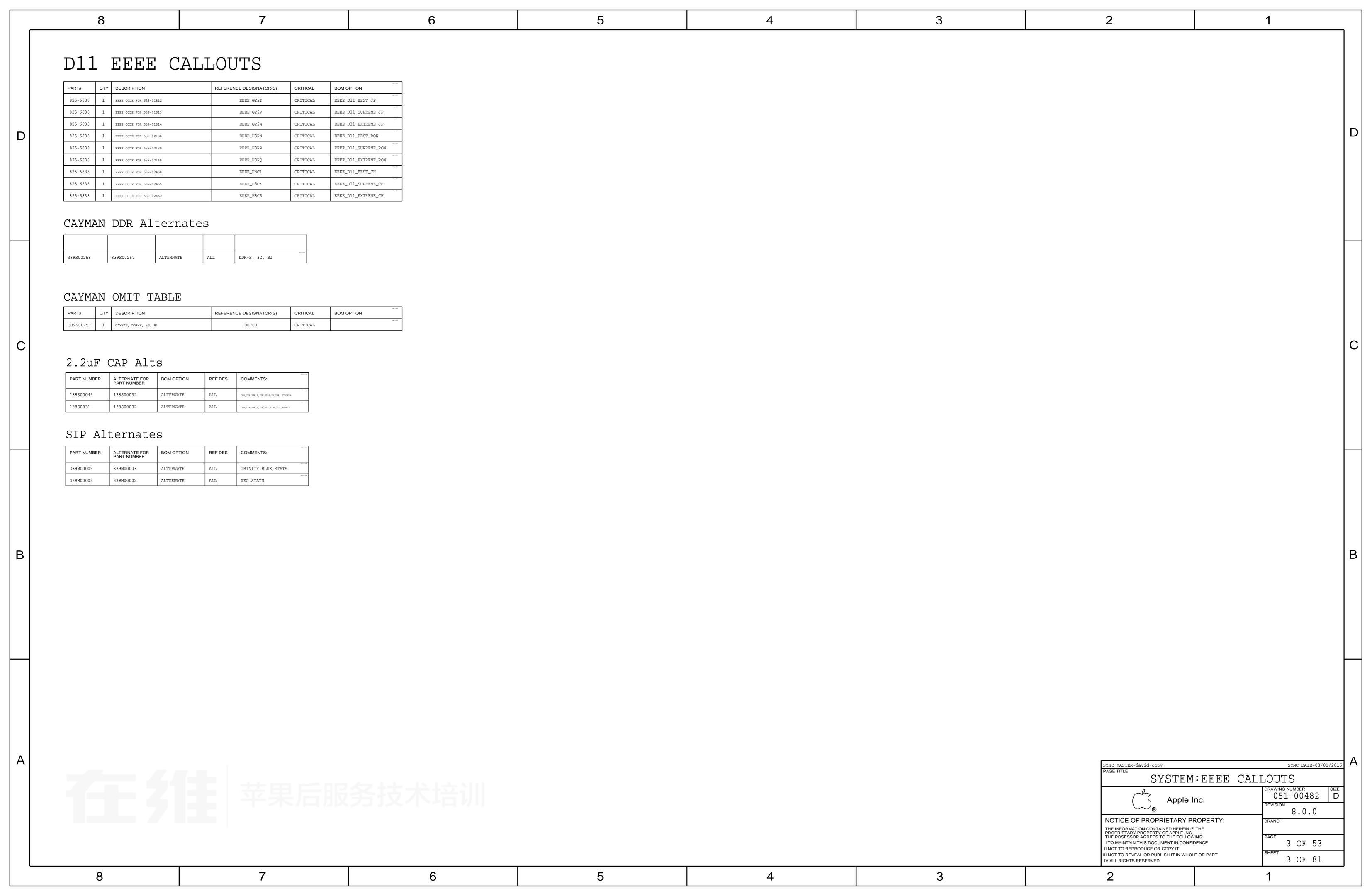
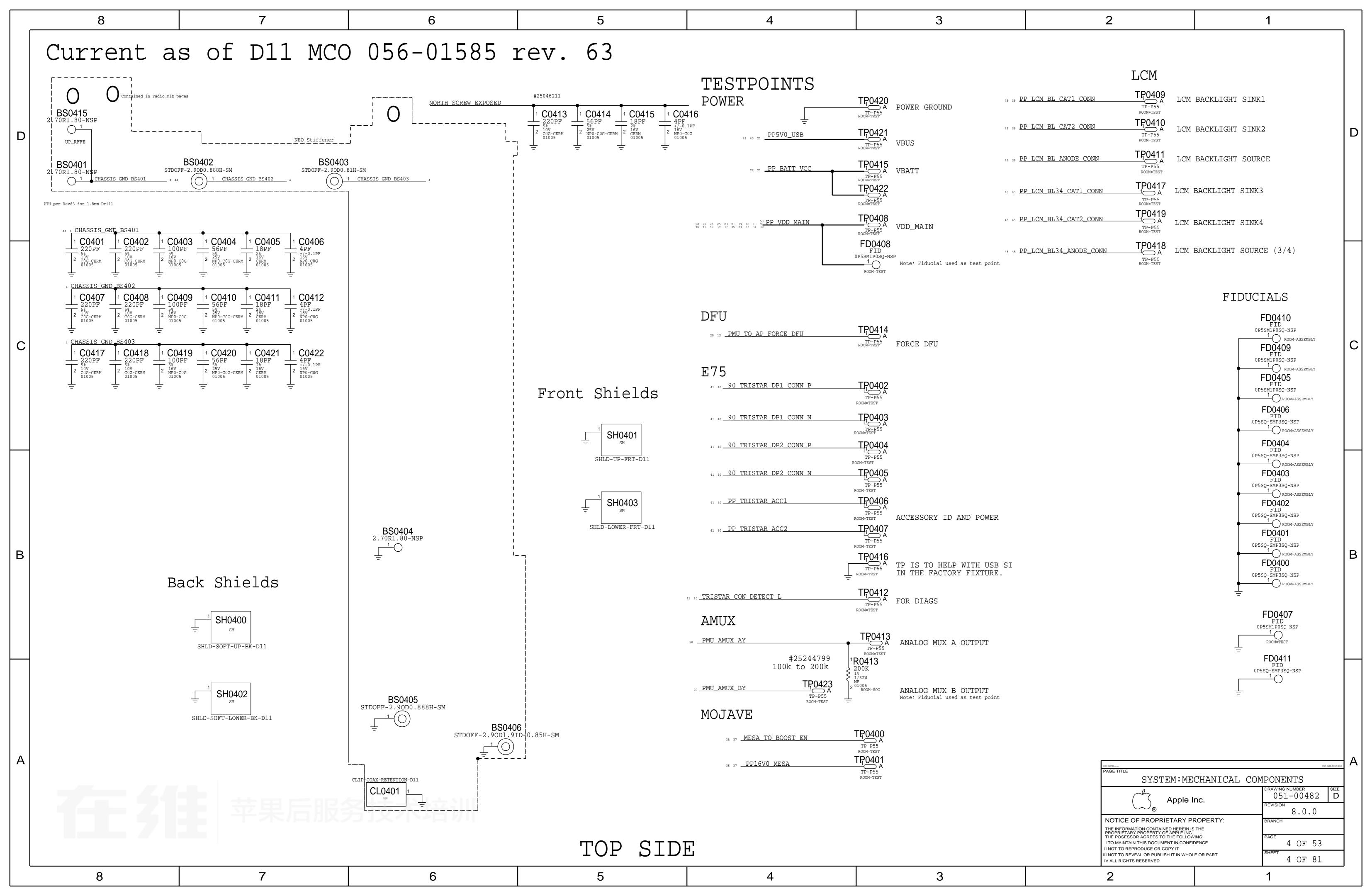
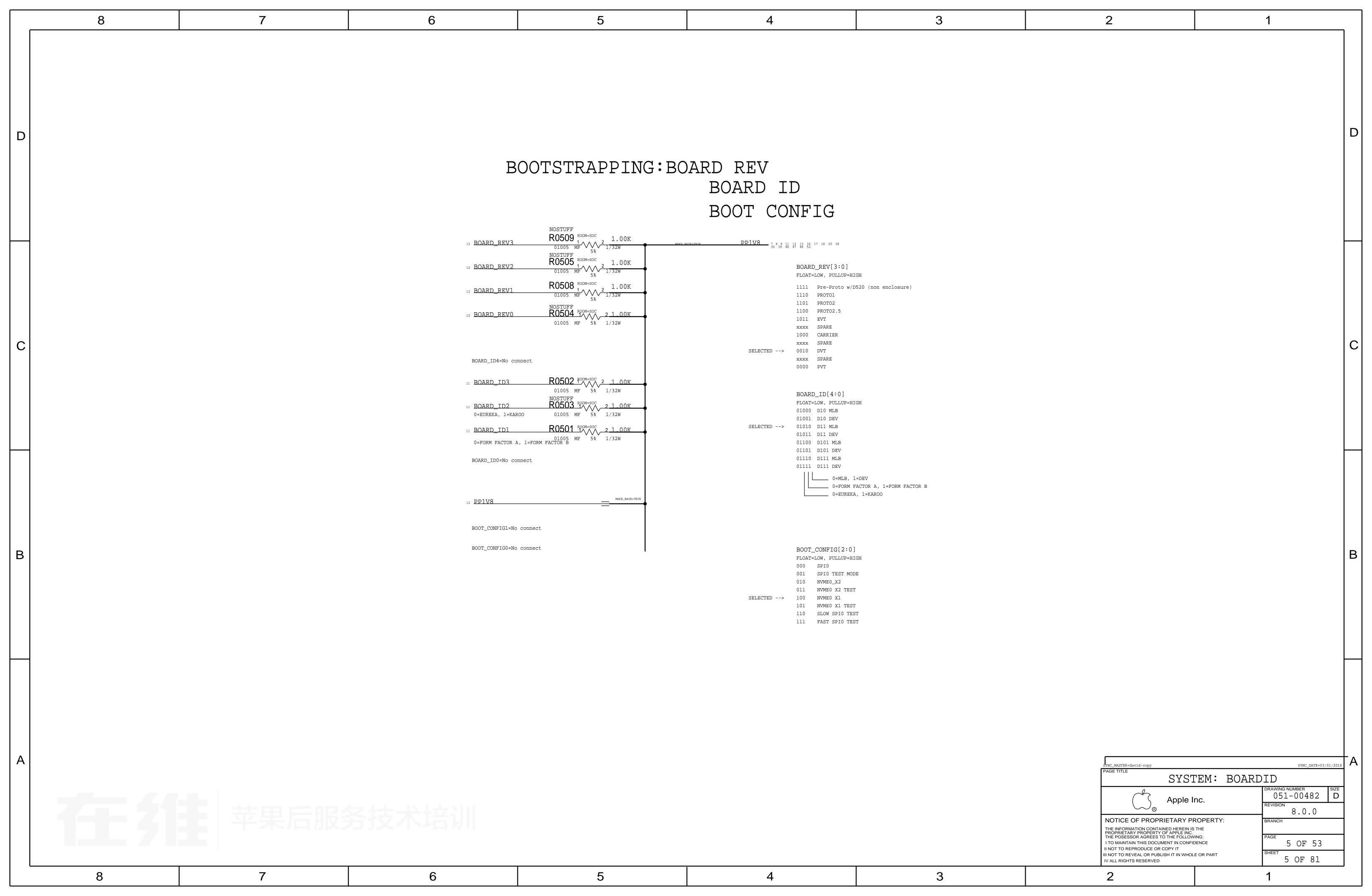
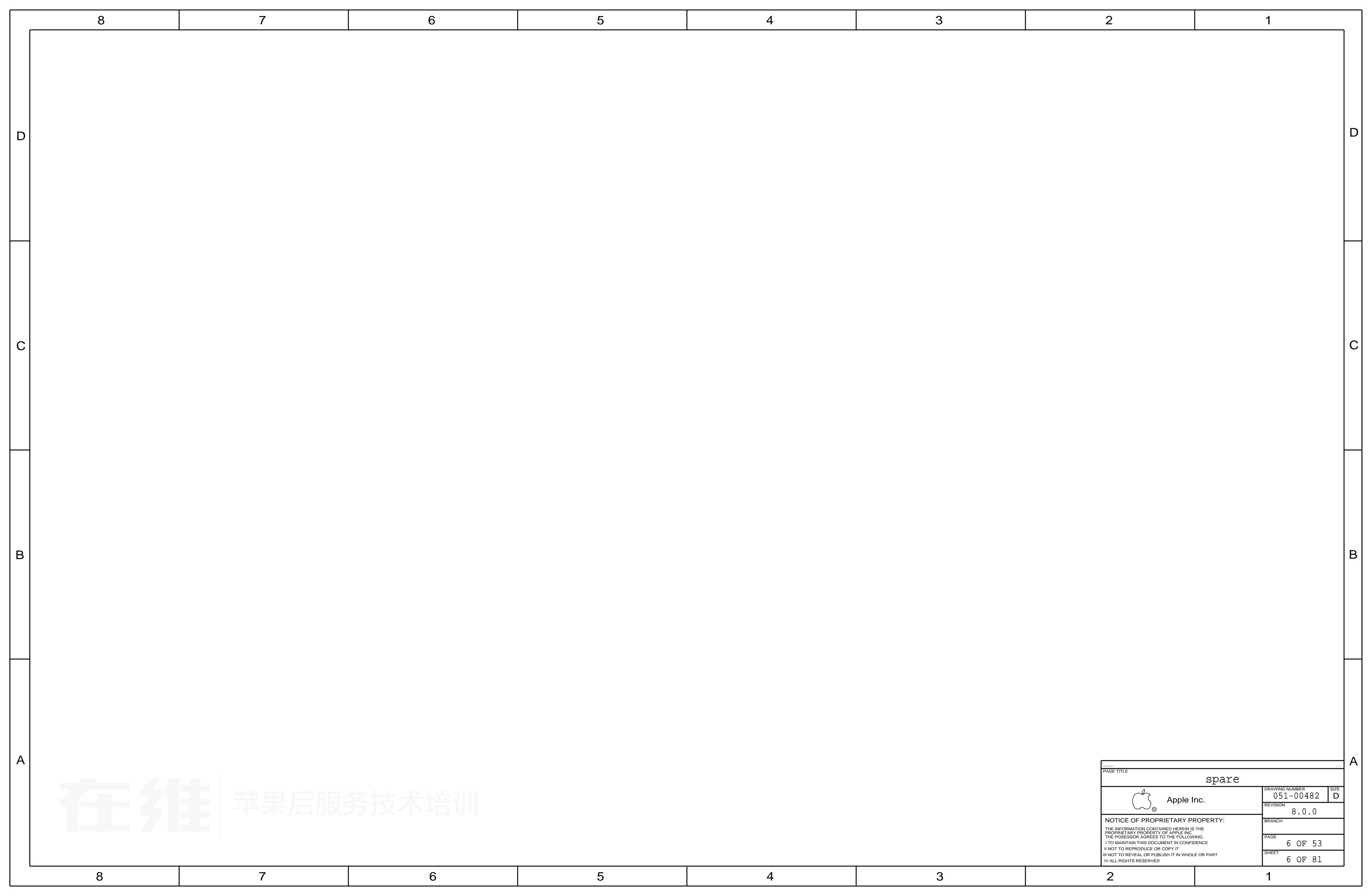
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	10	SOC: LPDP			55 NFC						
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	13	SOC:AOP				AND TUNER [3]					
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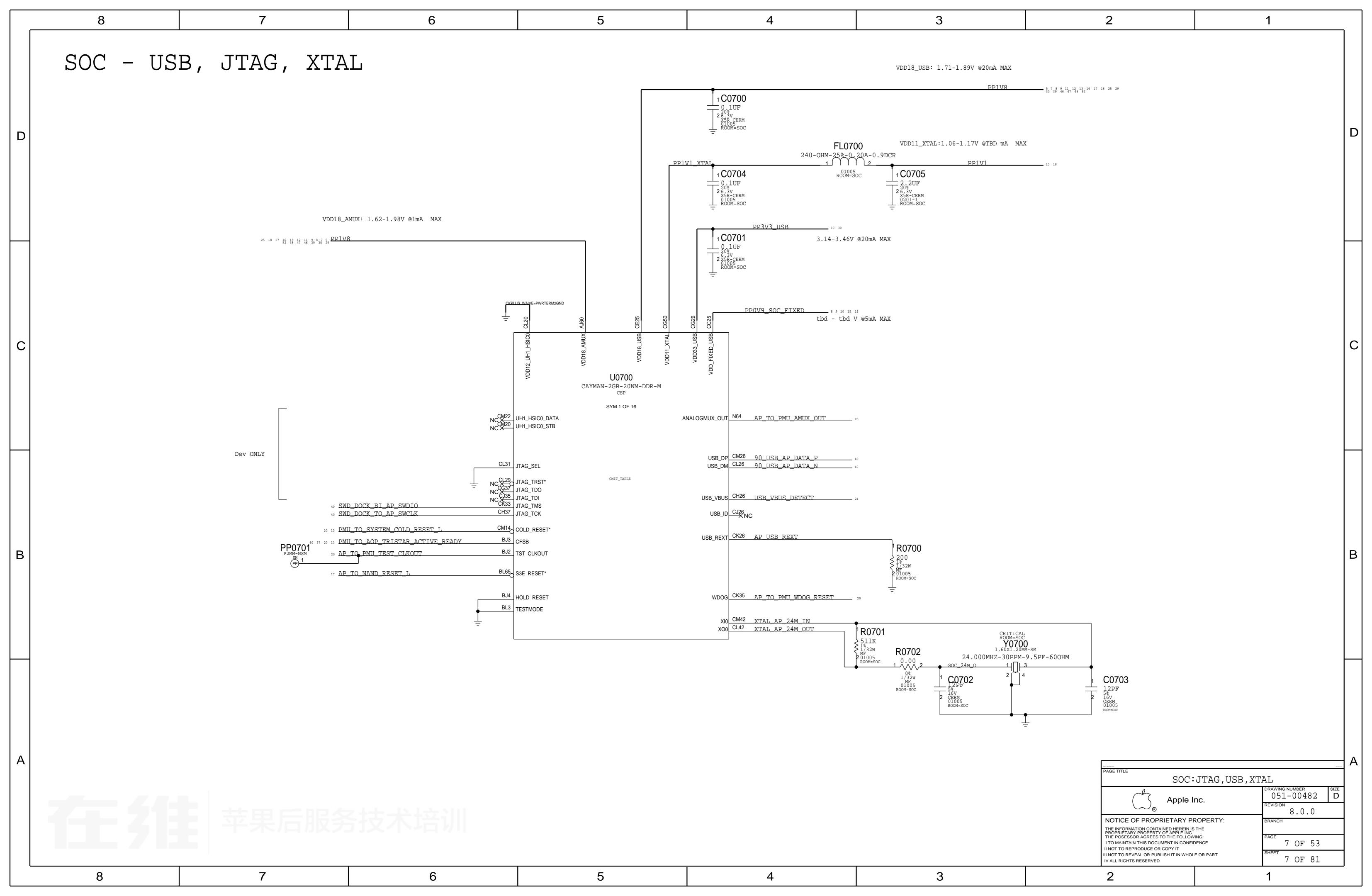


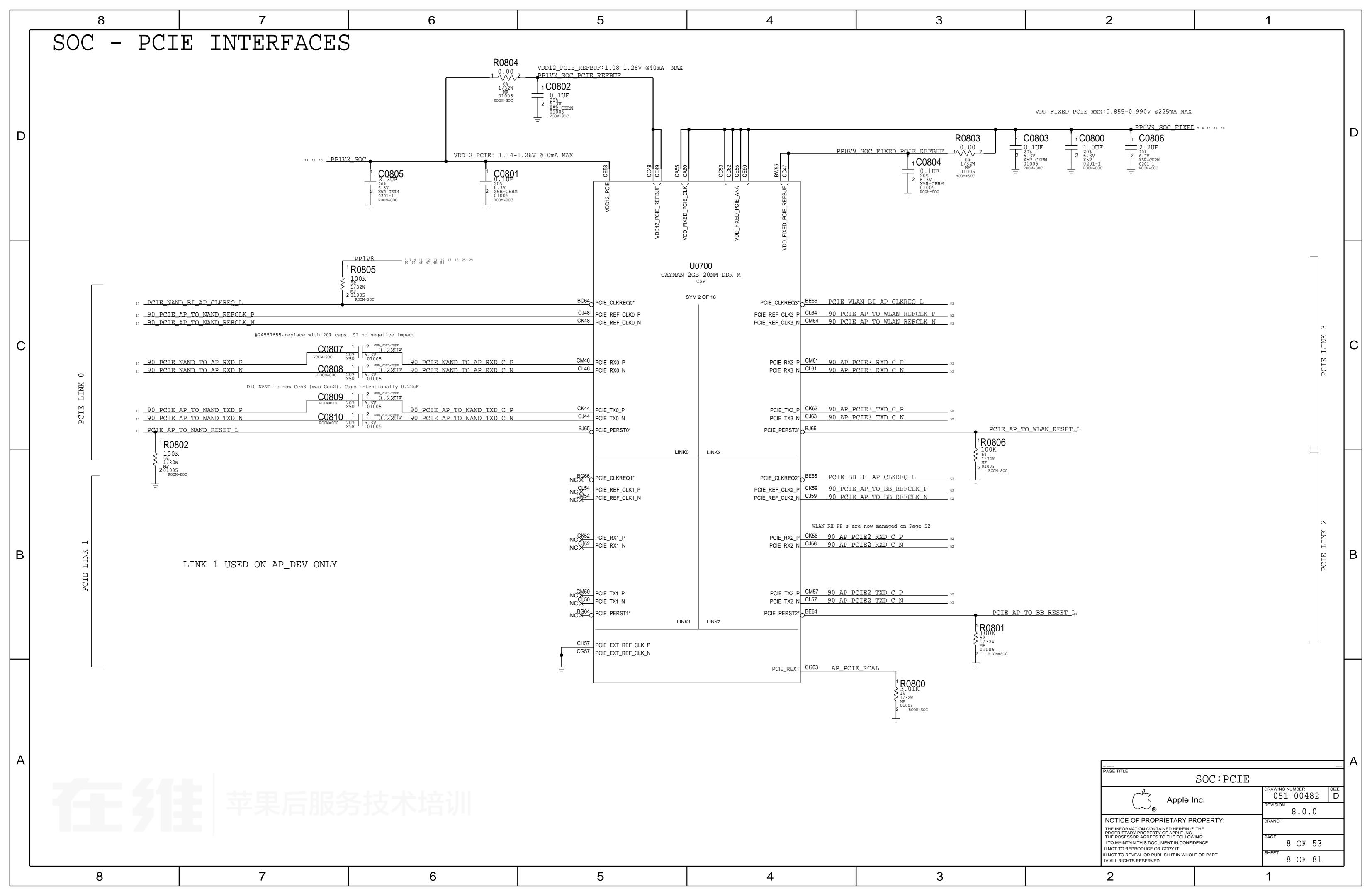


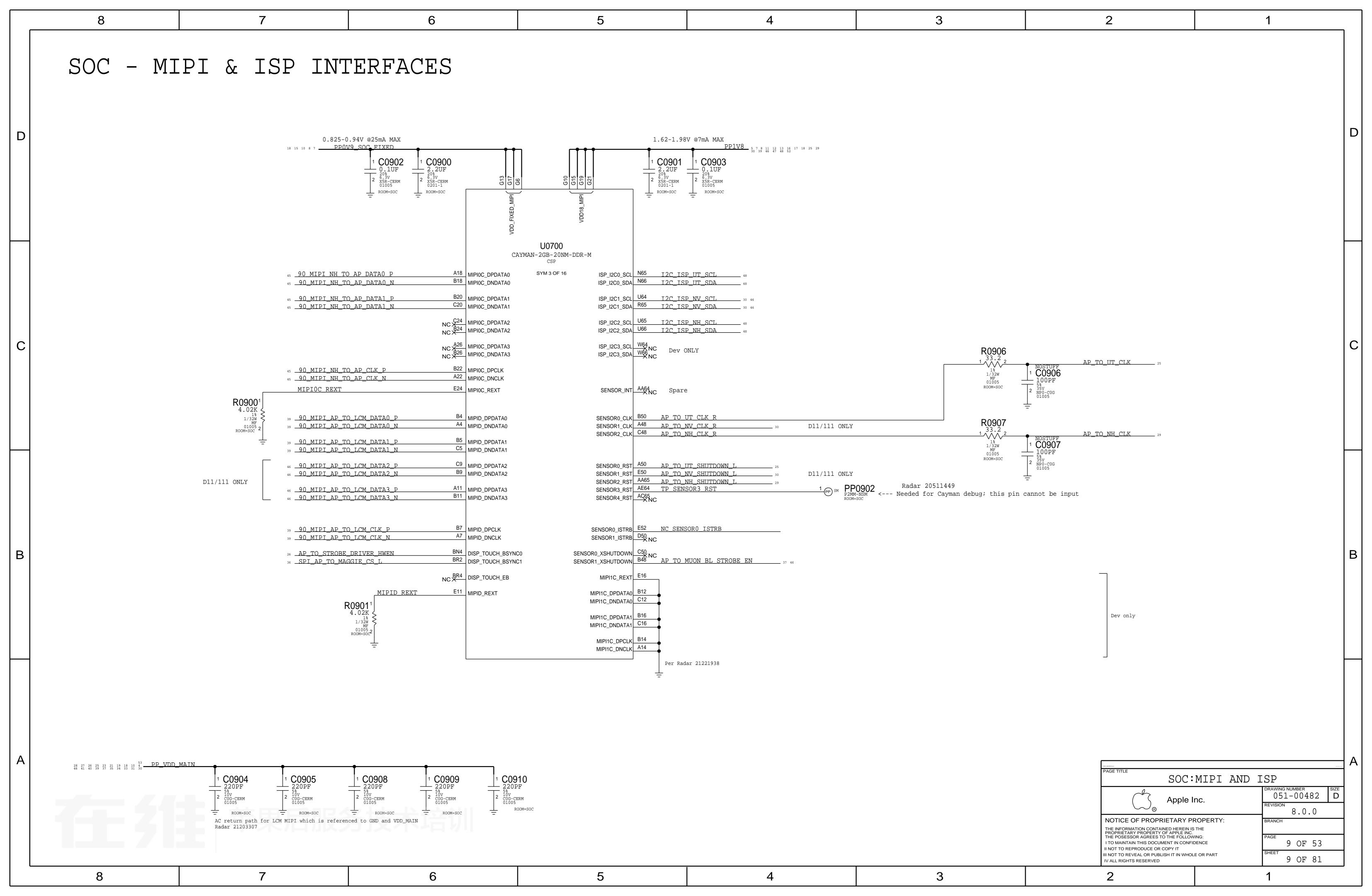


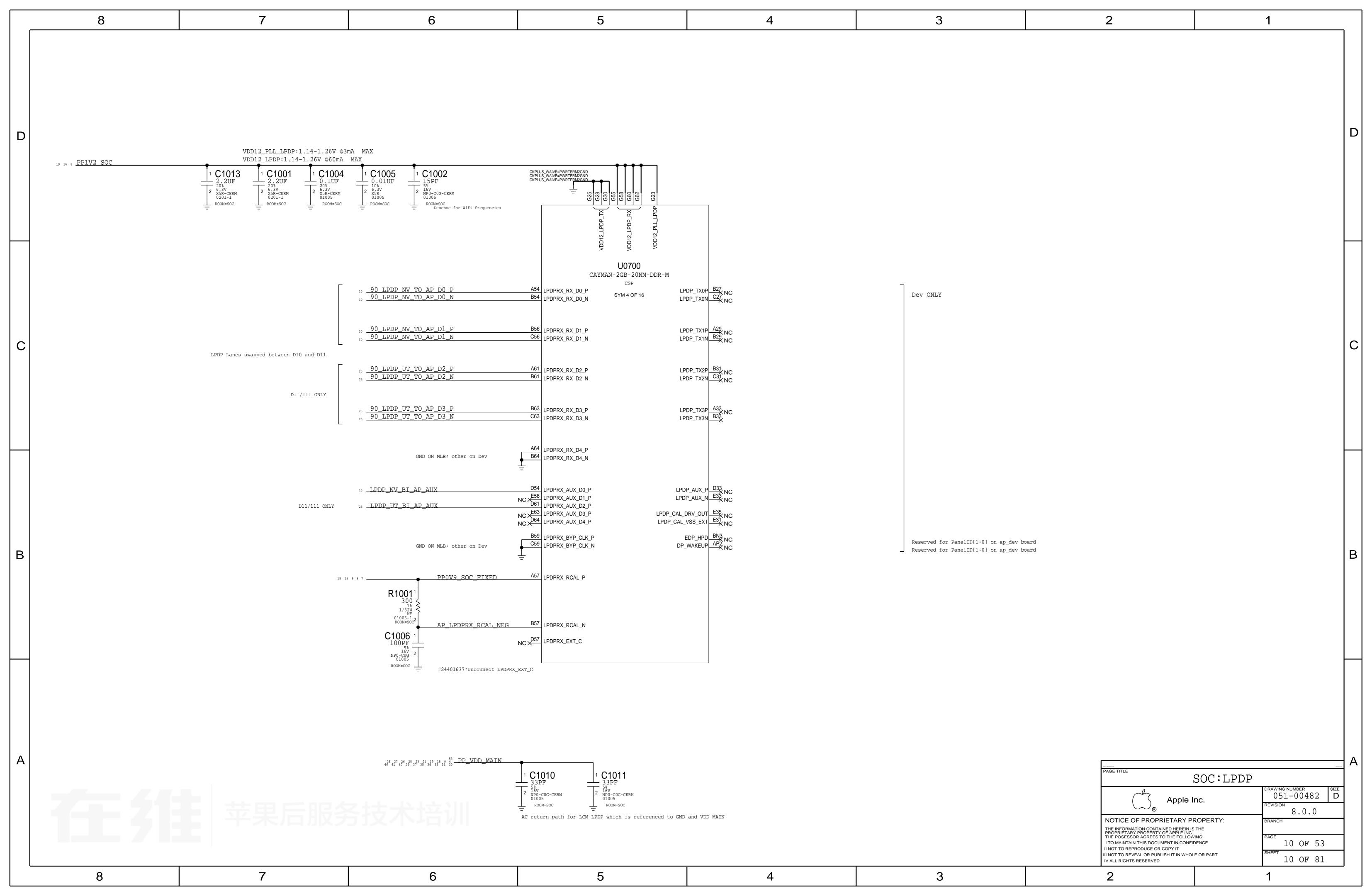


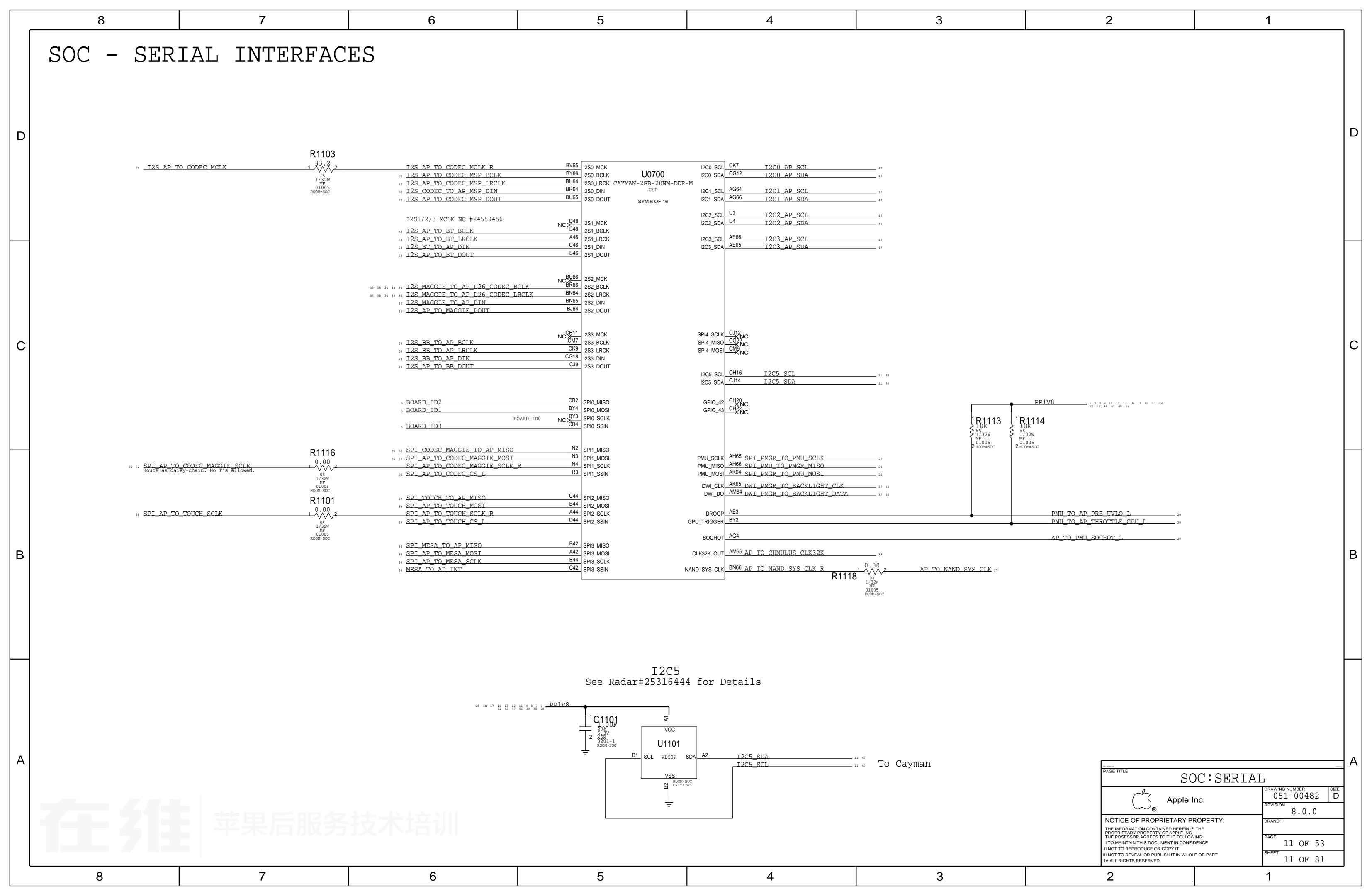


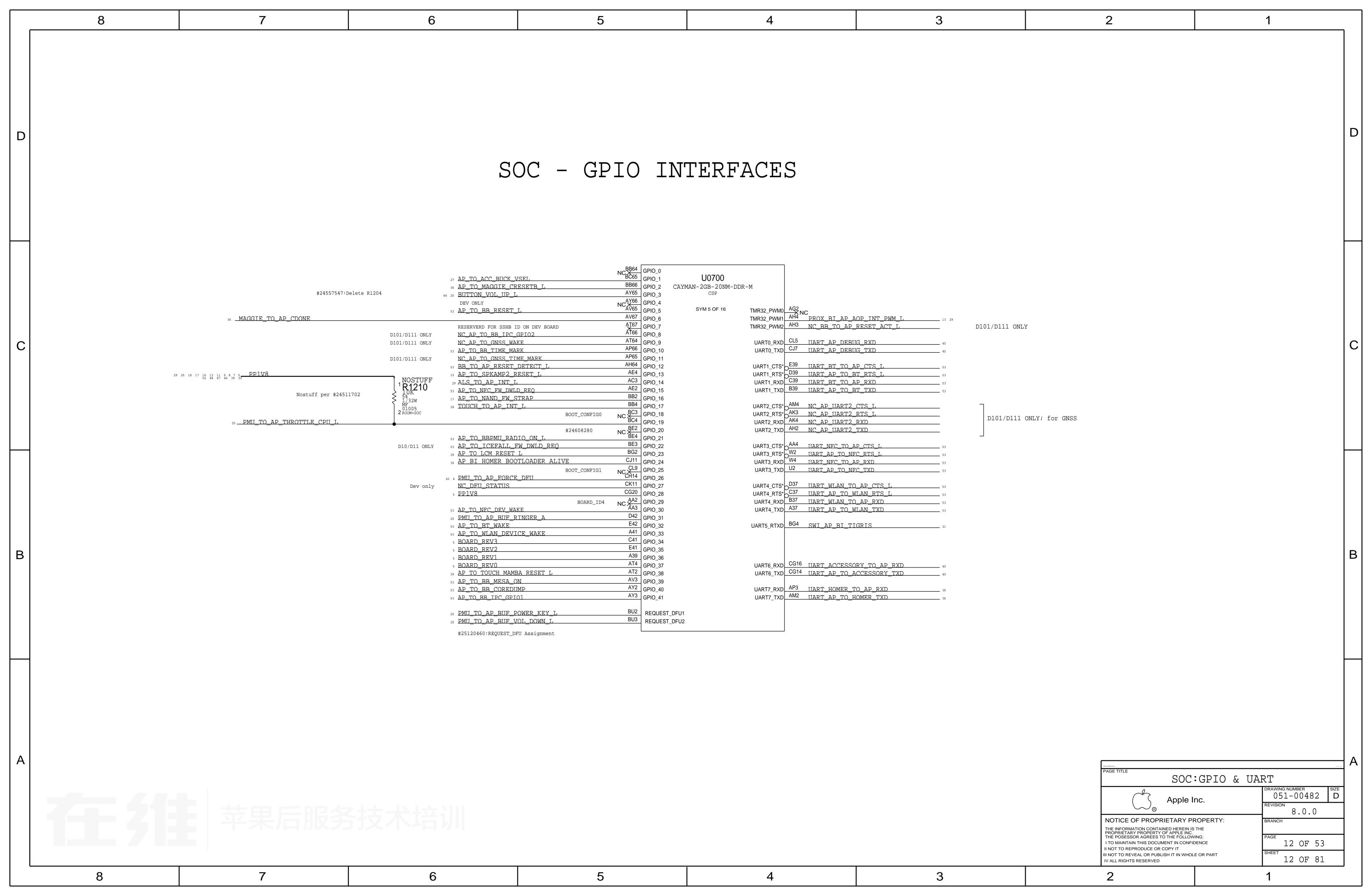


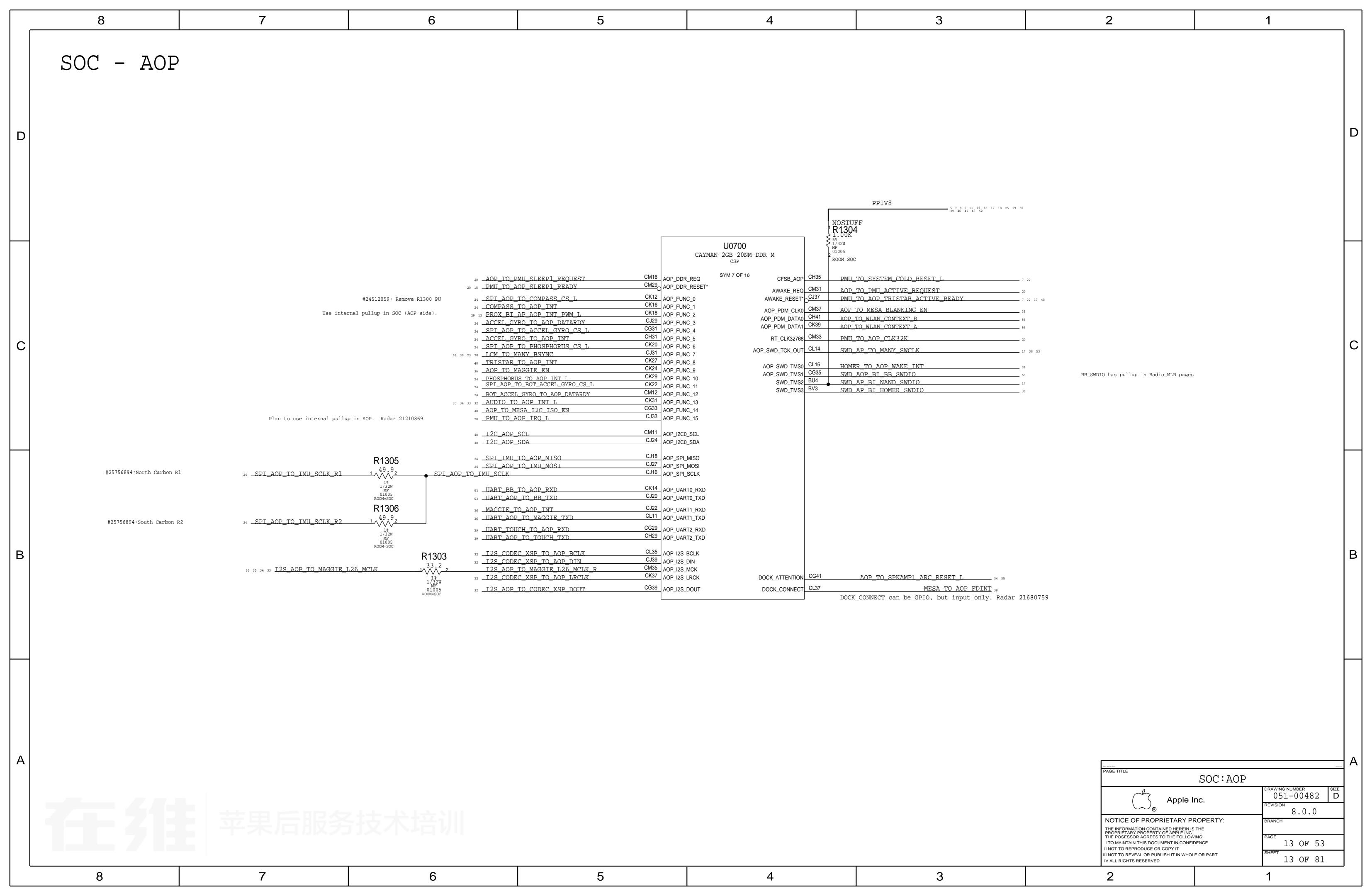


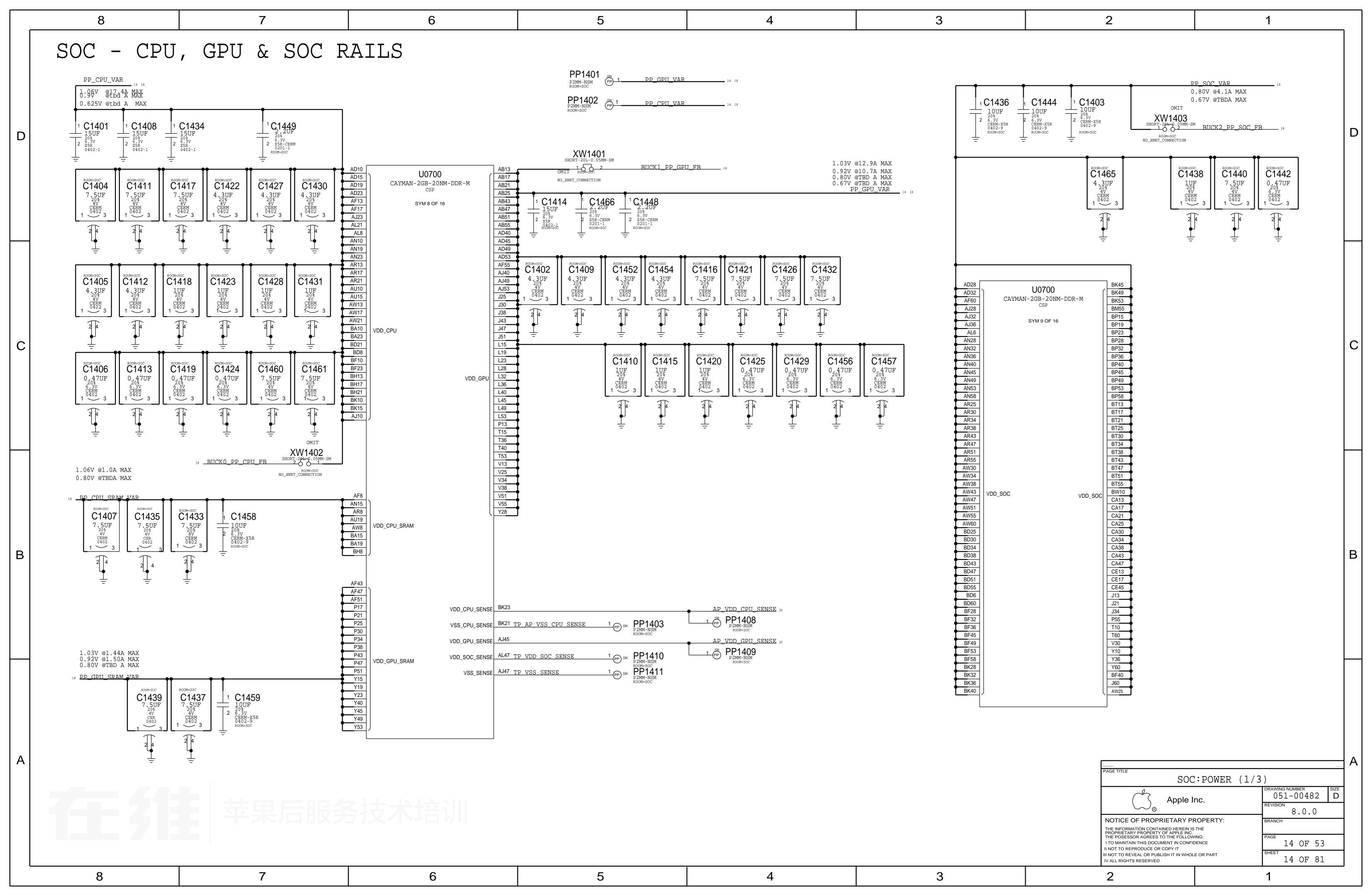


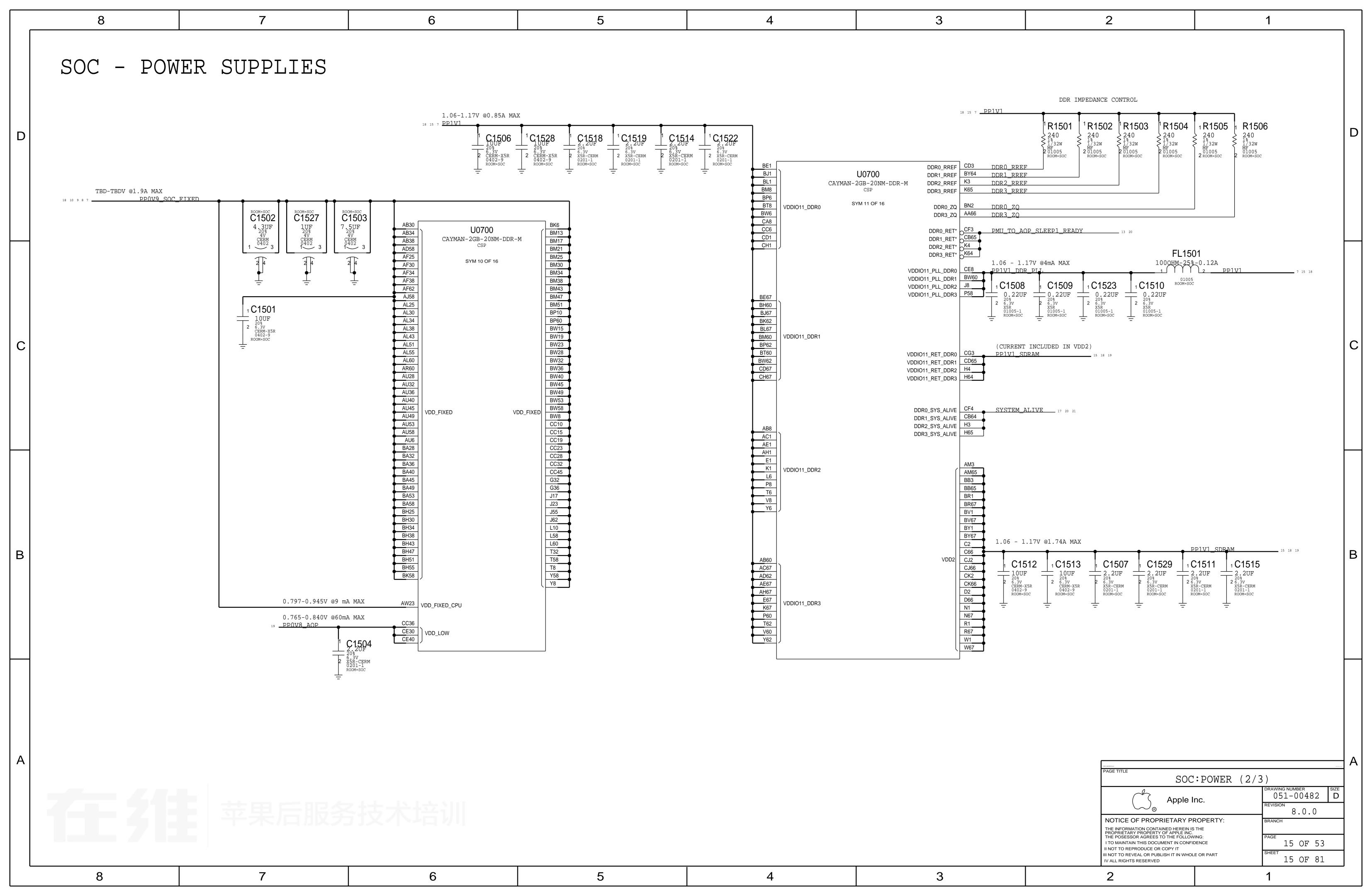


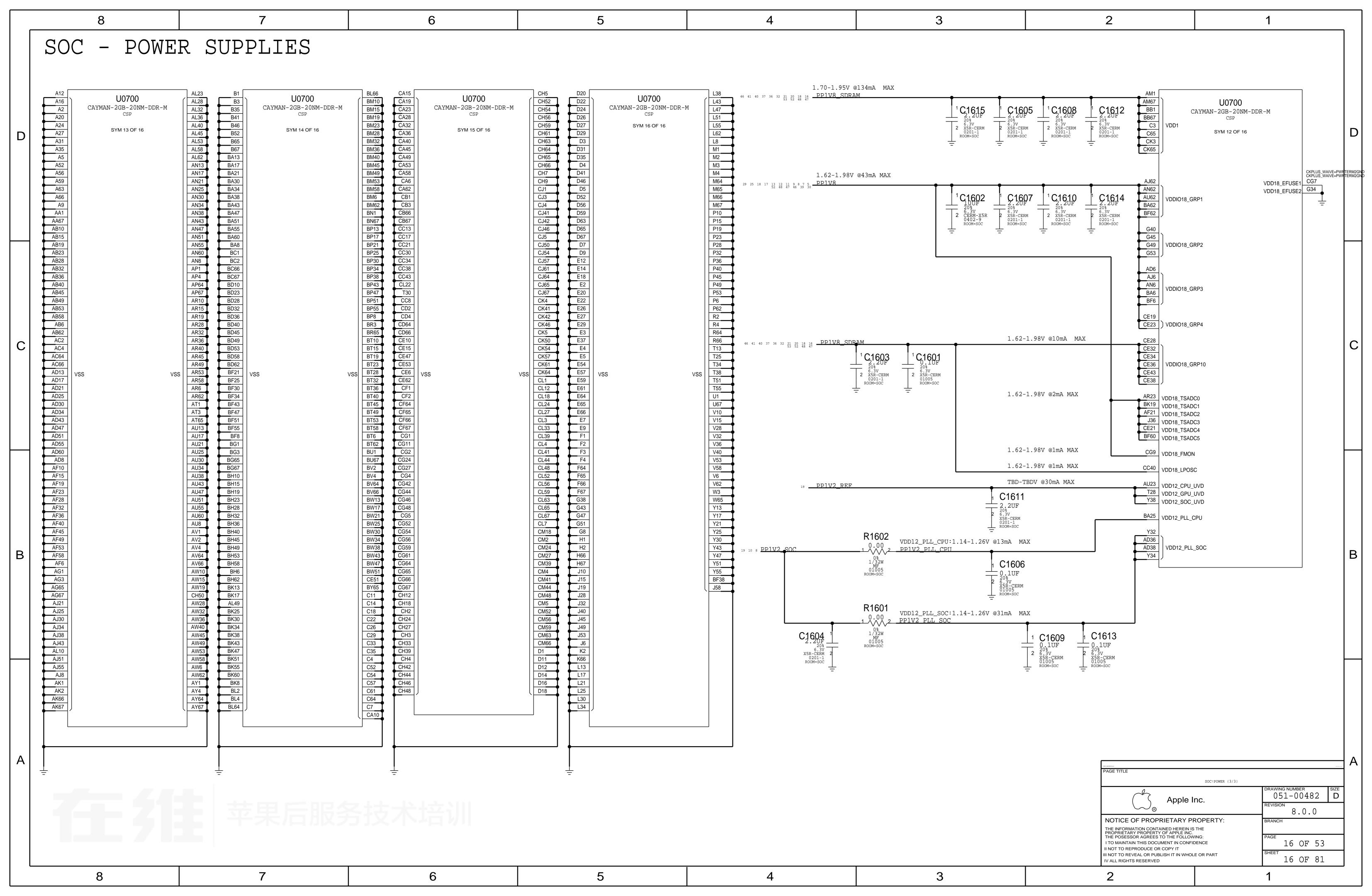


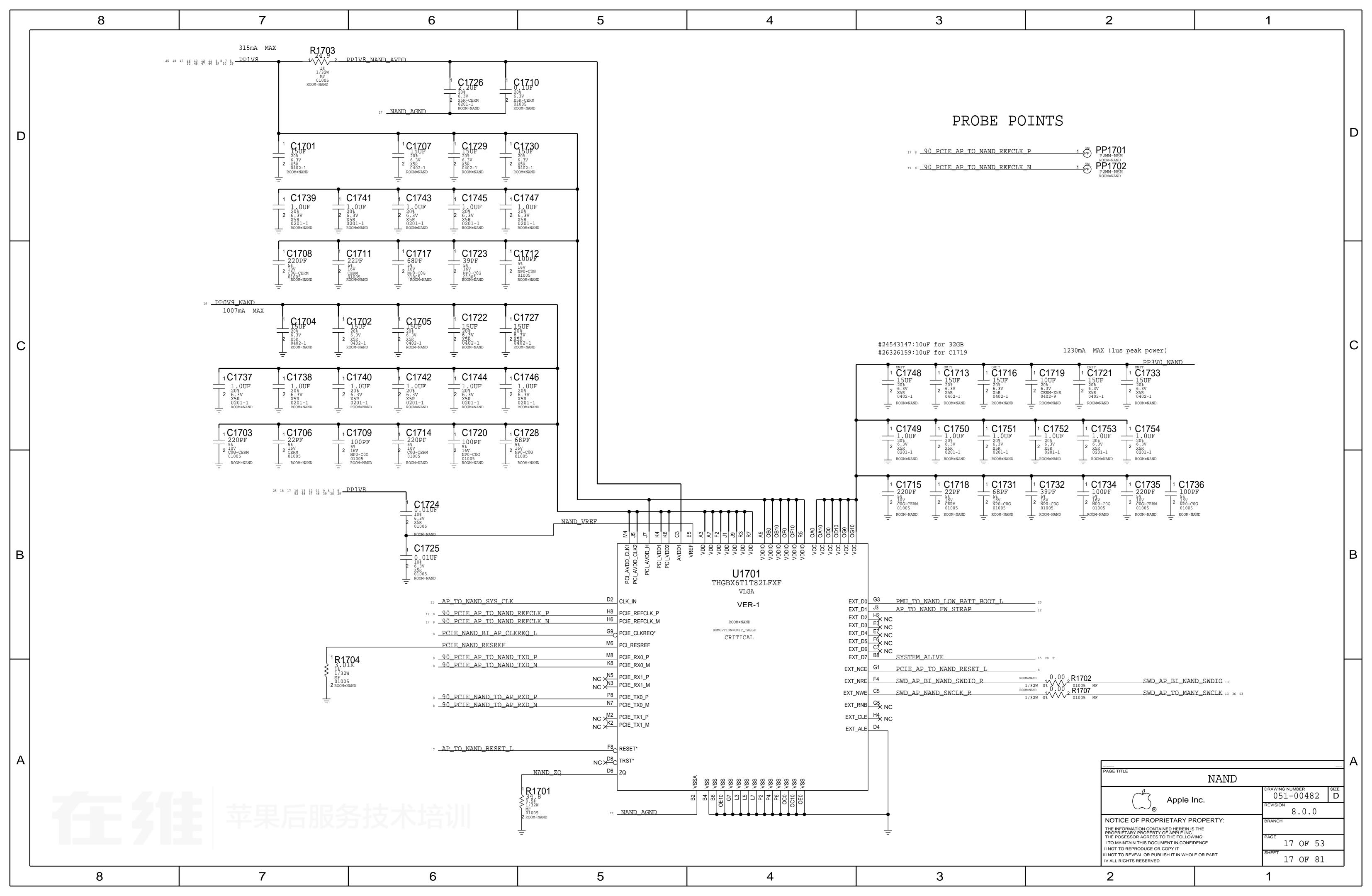


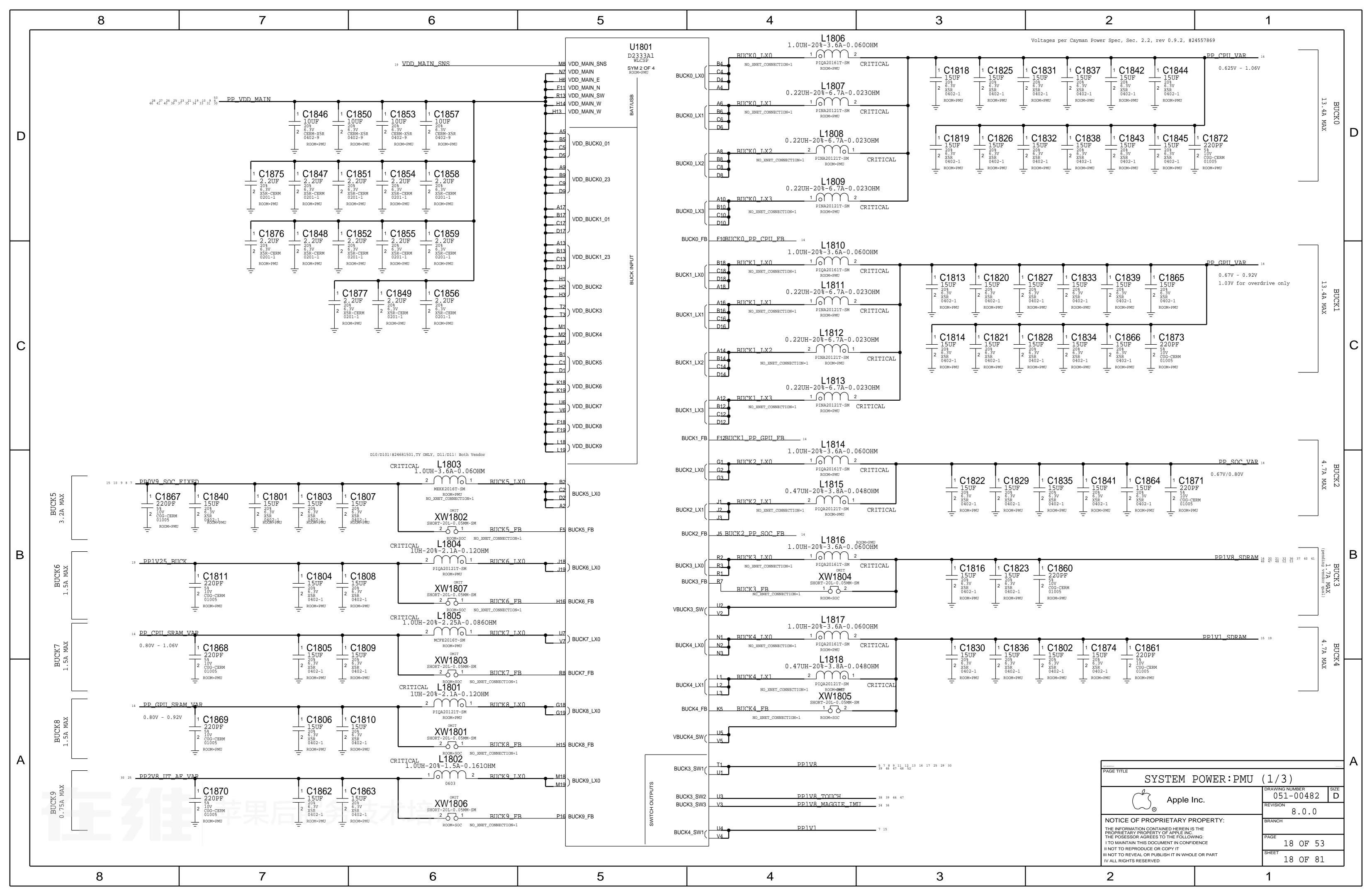


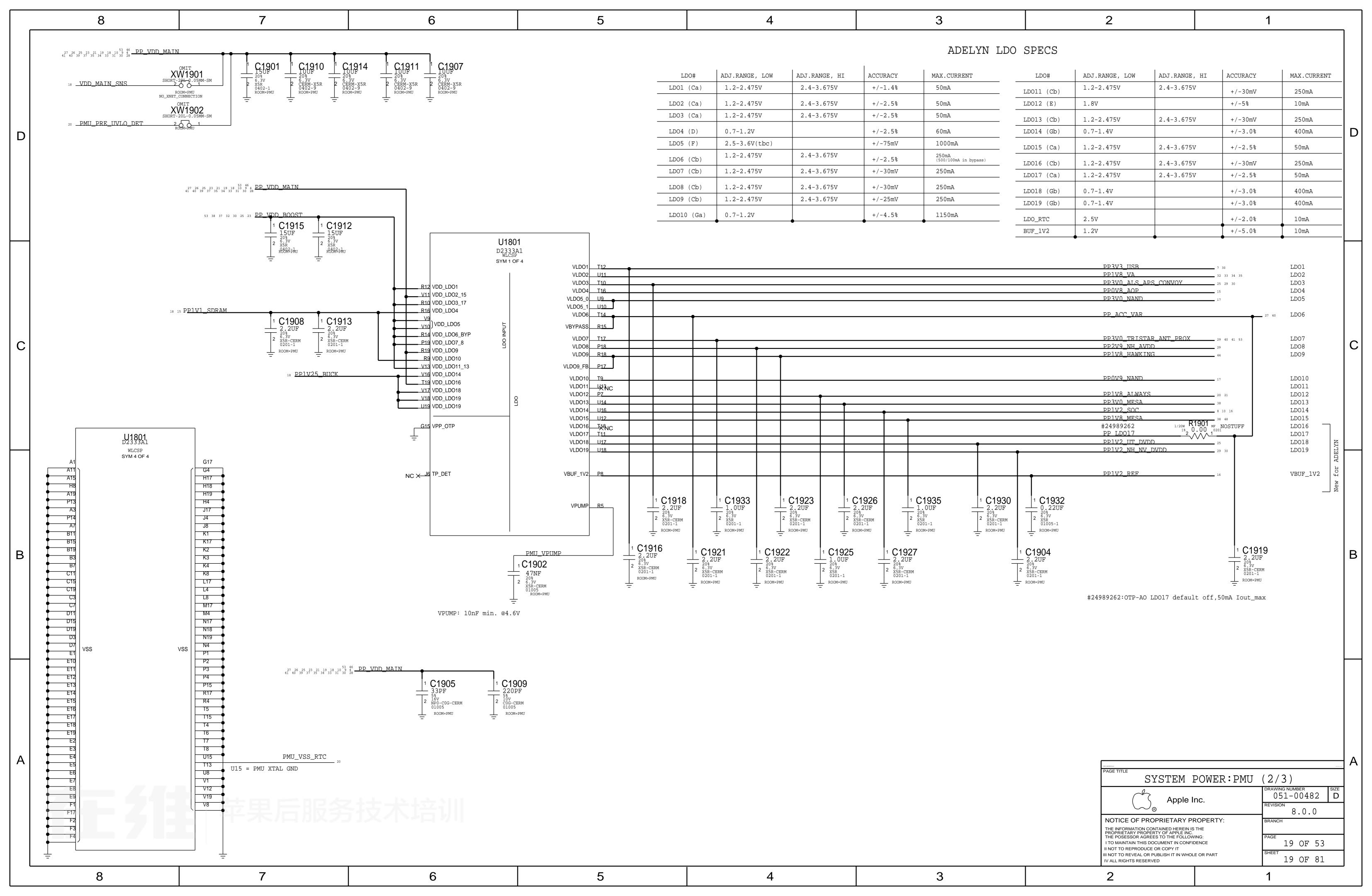


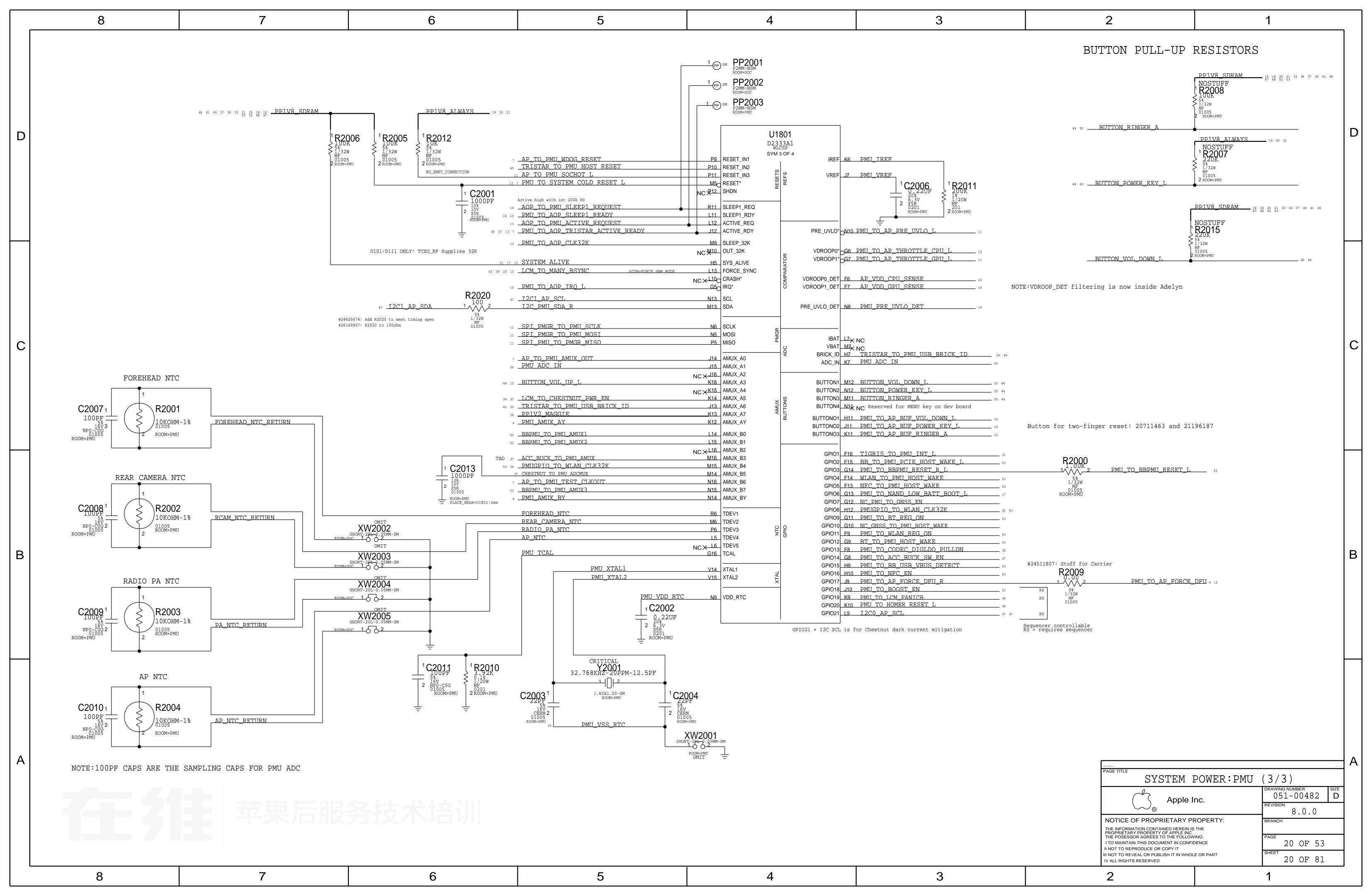


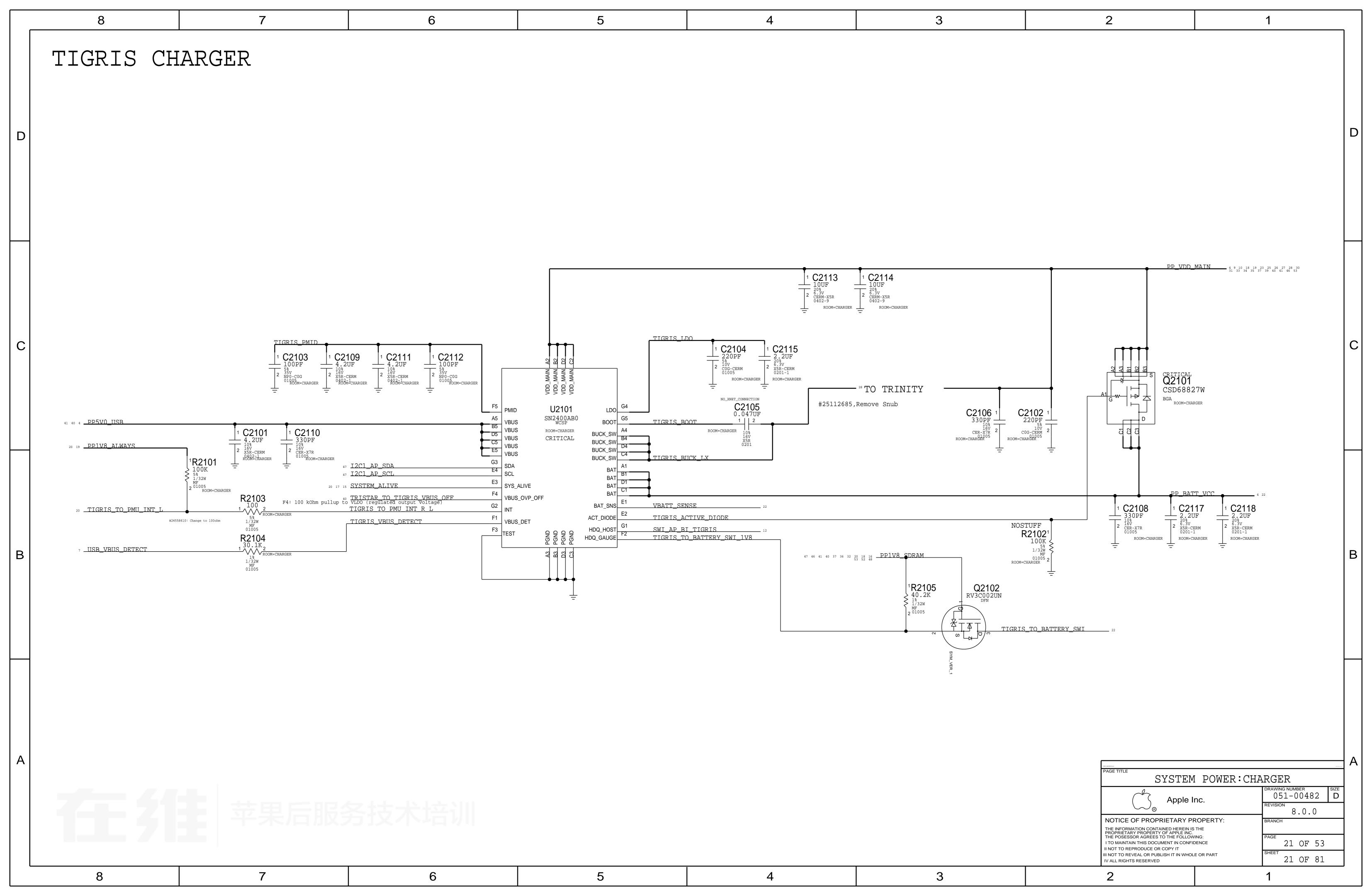


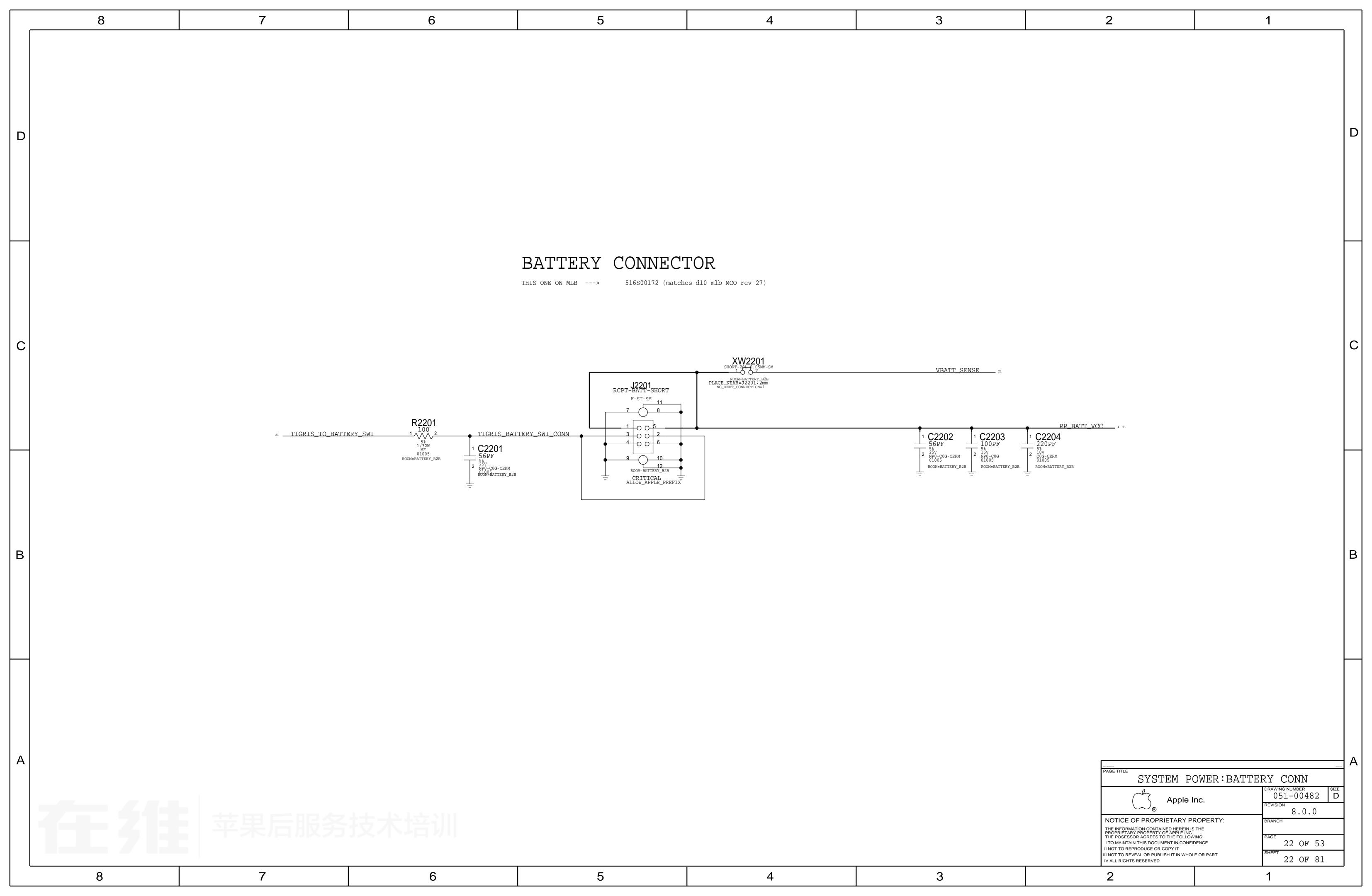


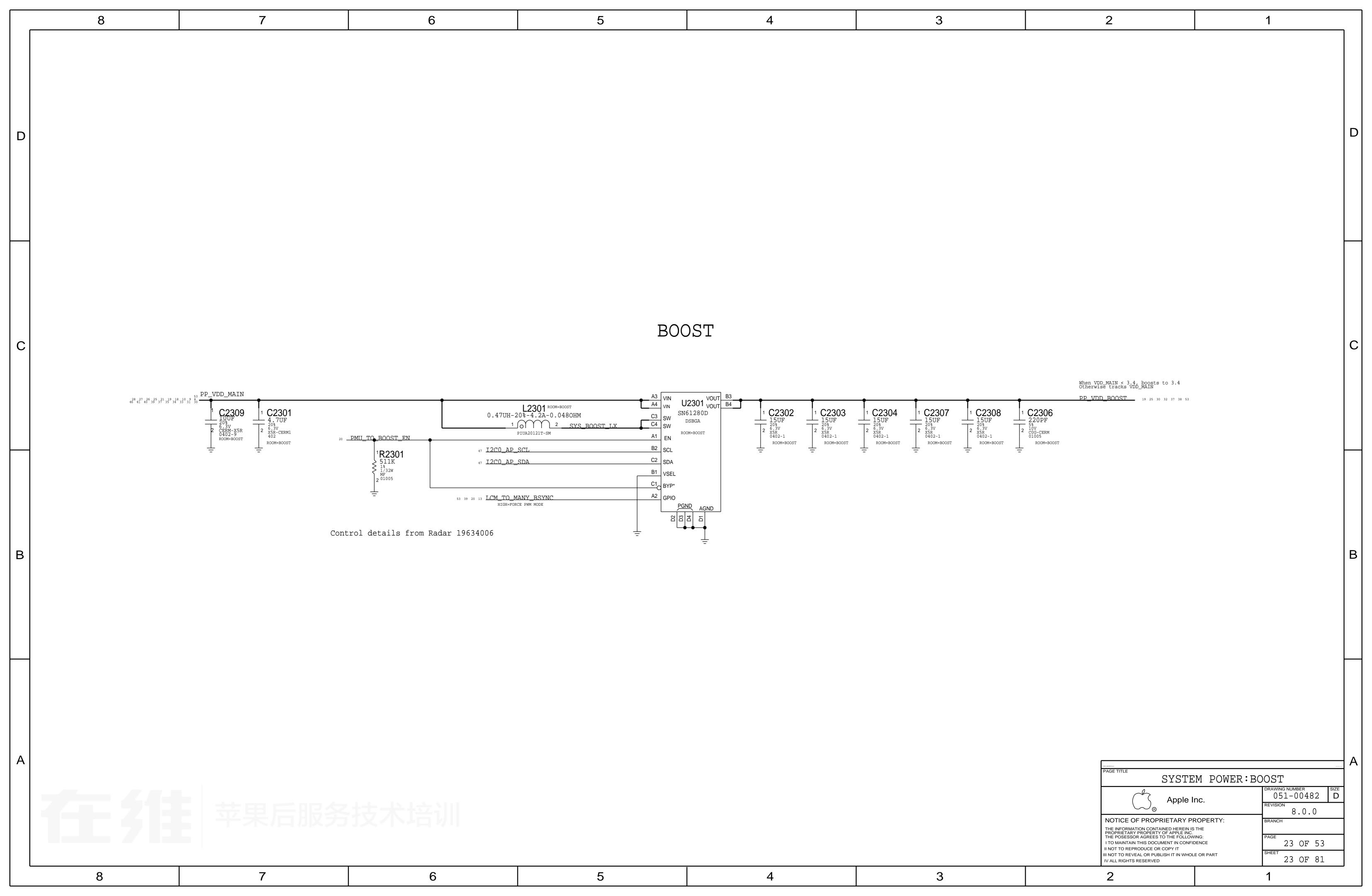


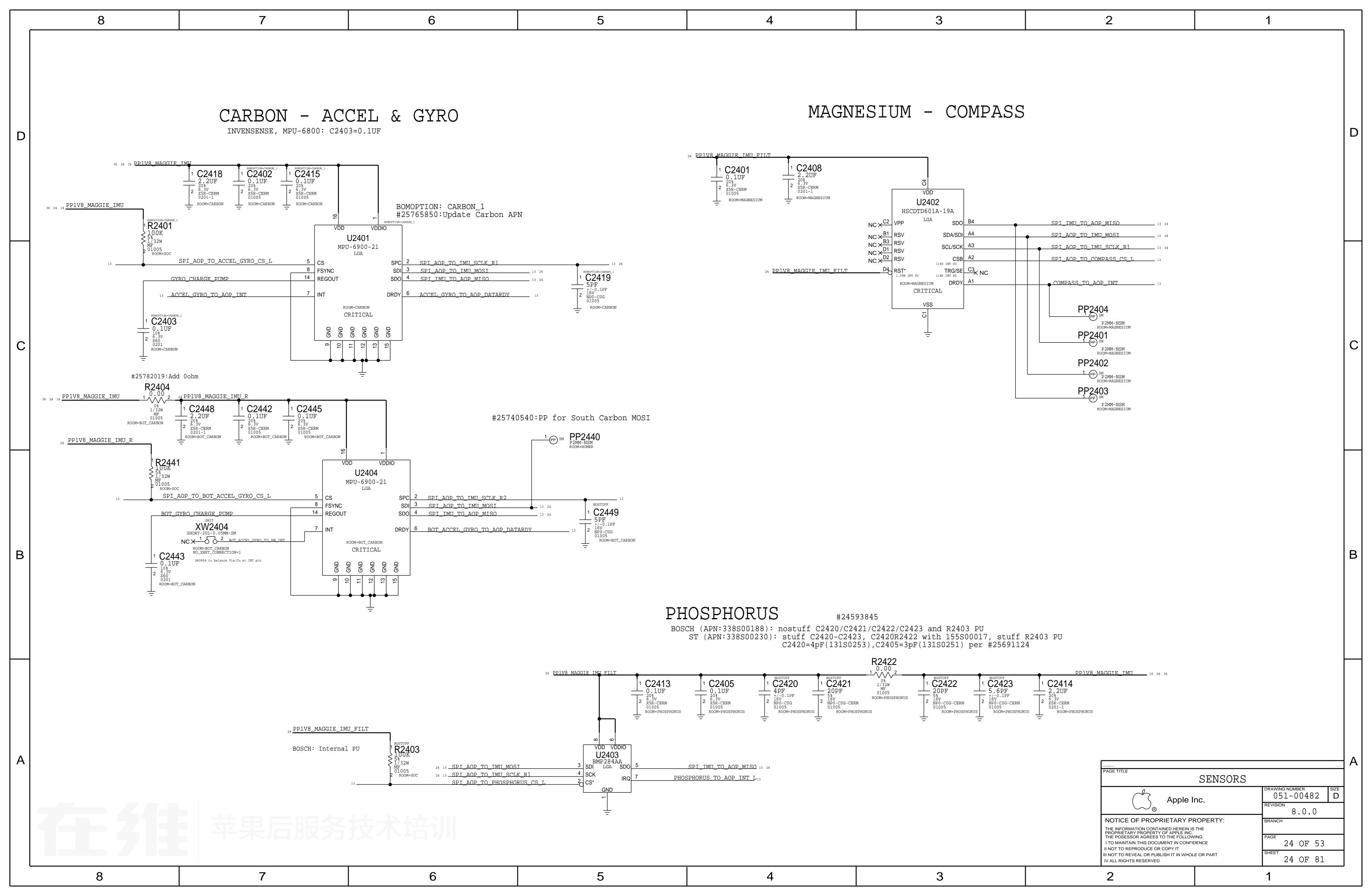


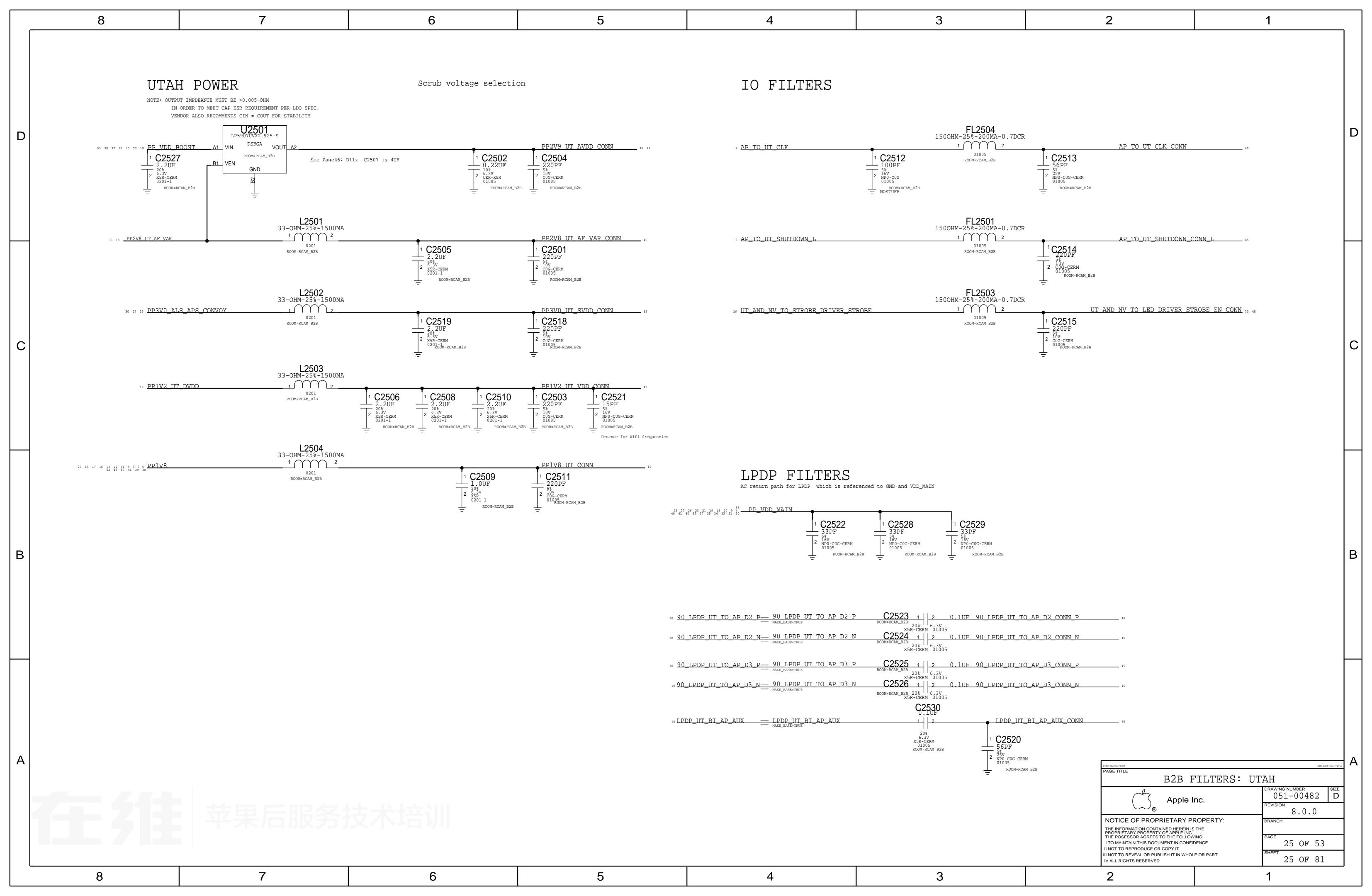


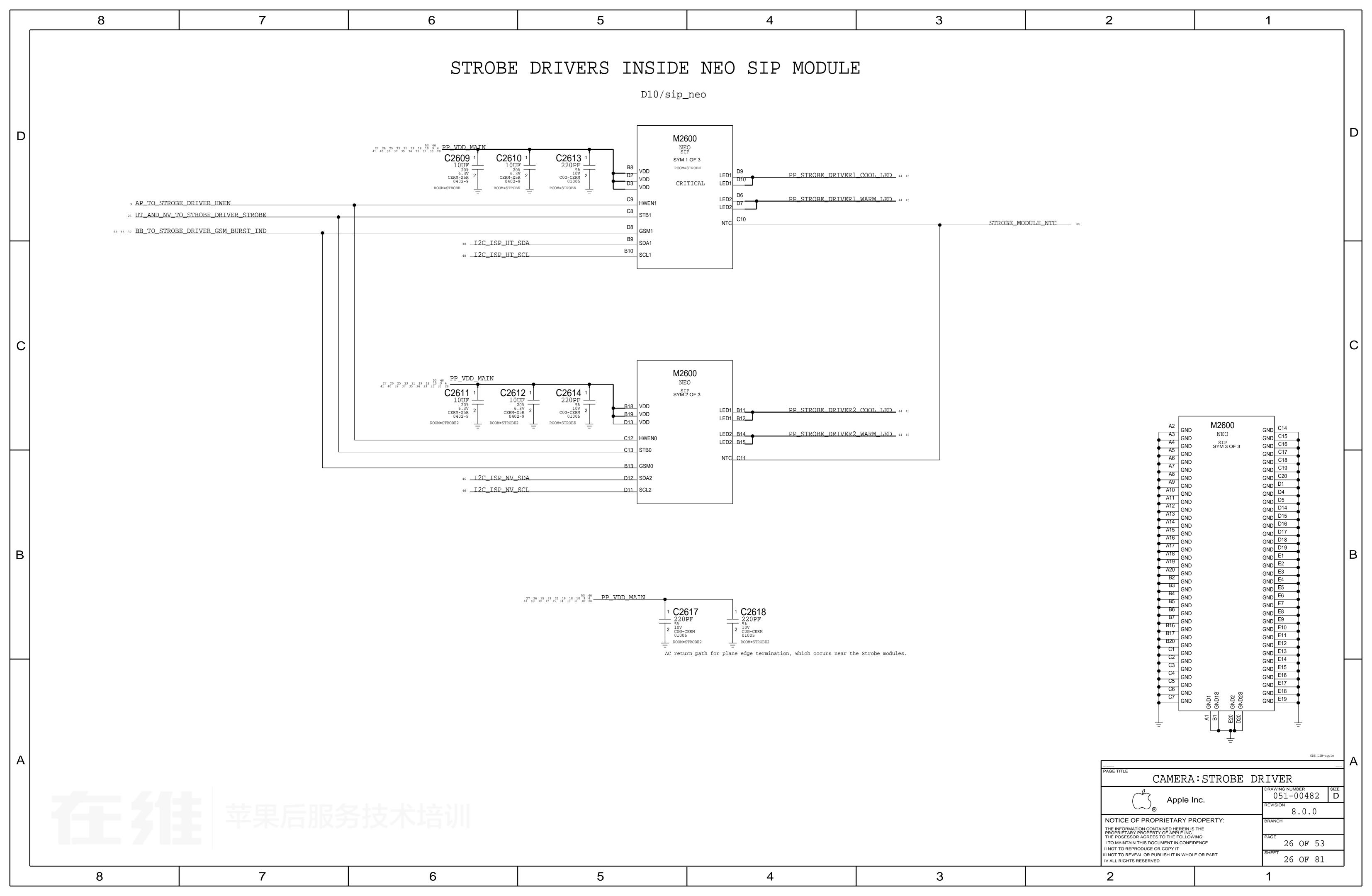


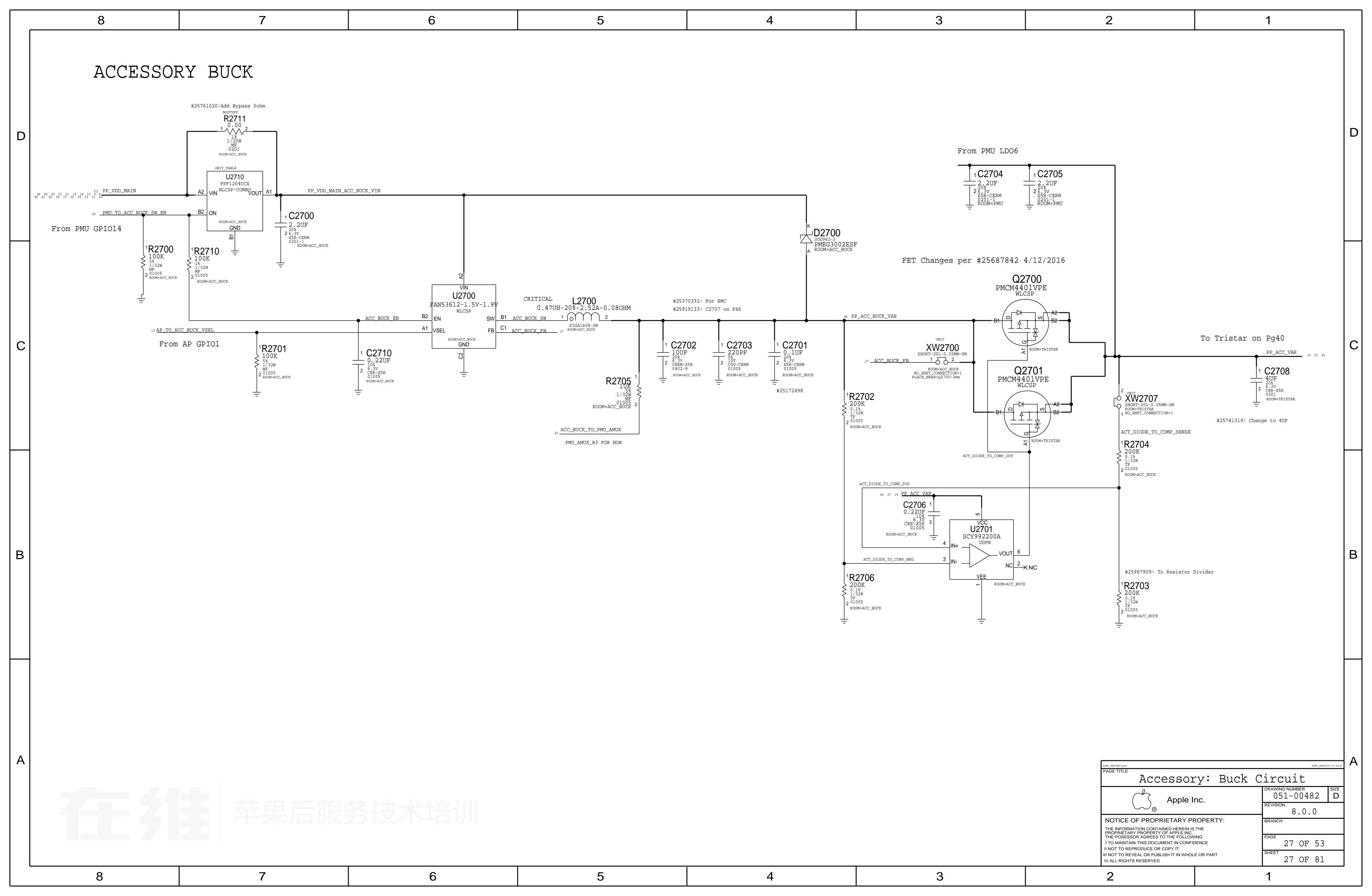


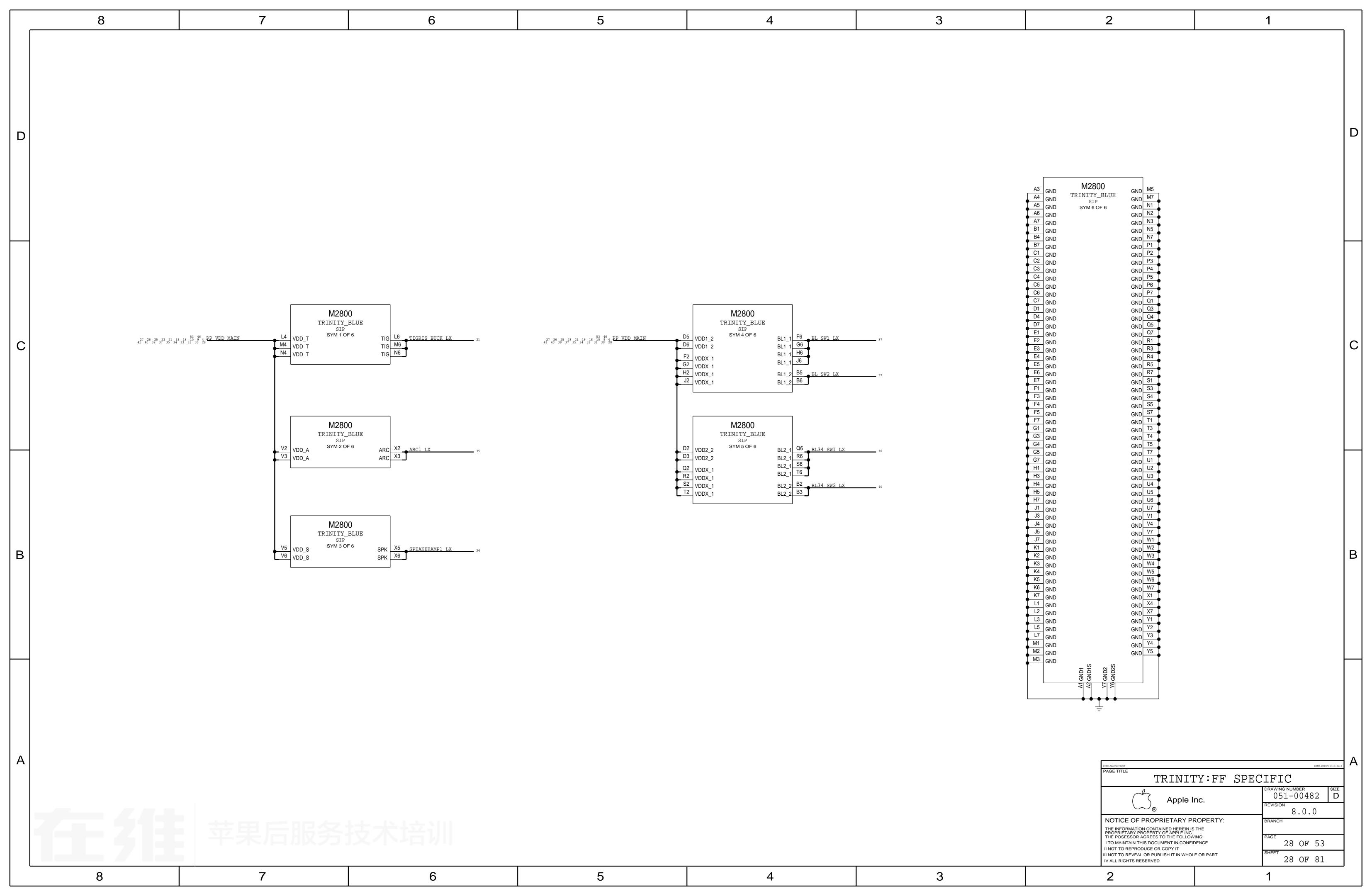


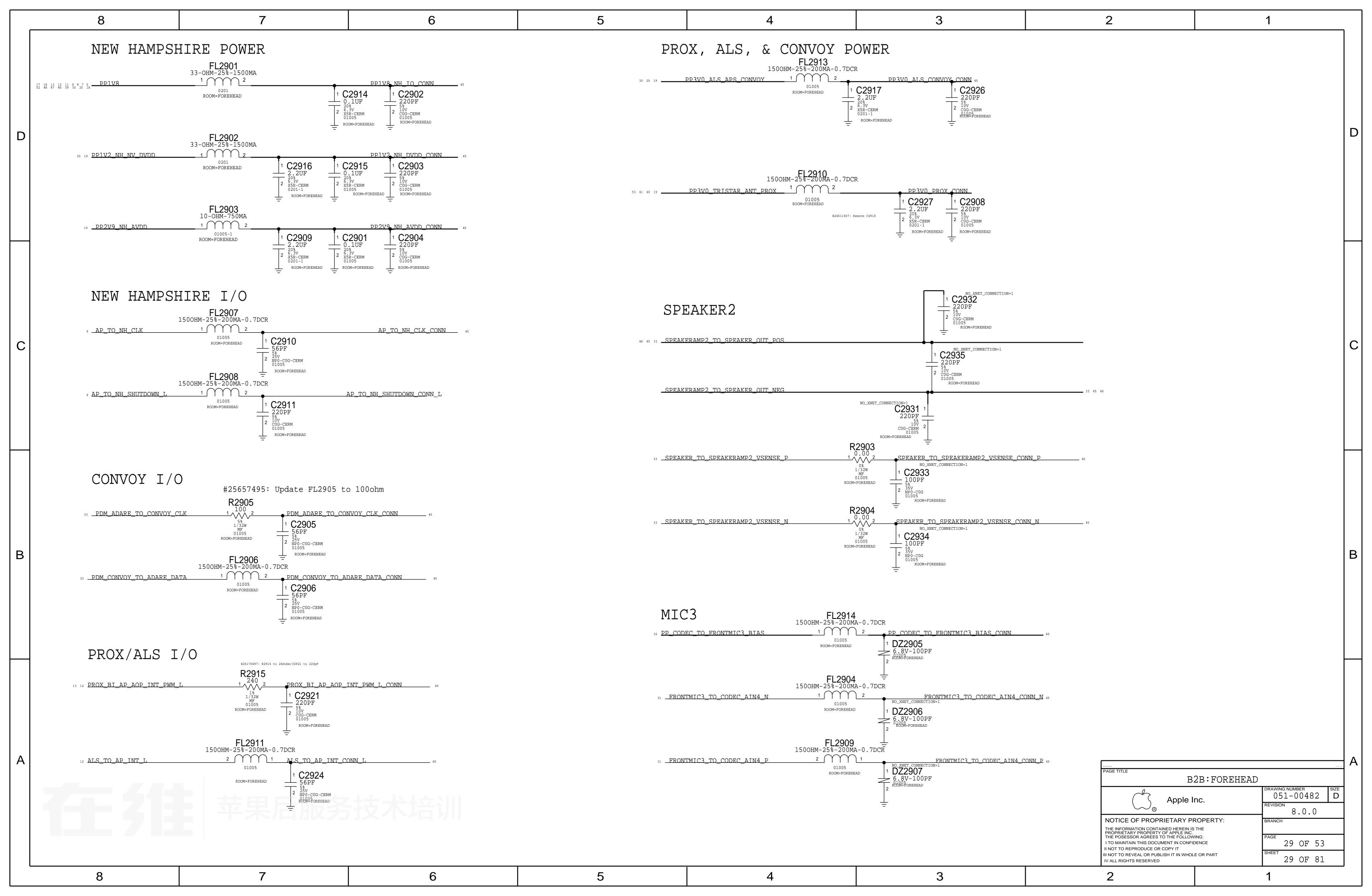


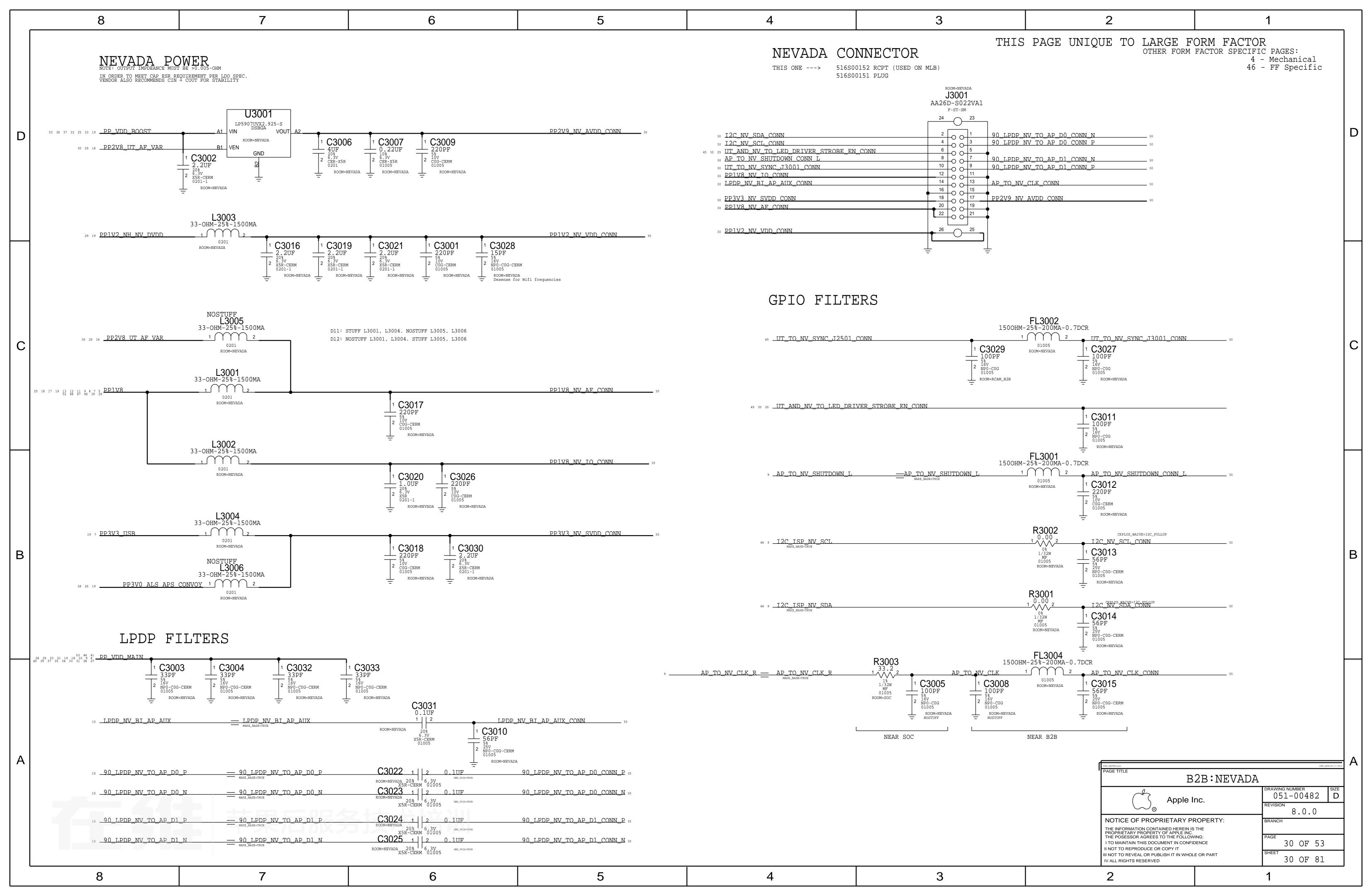


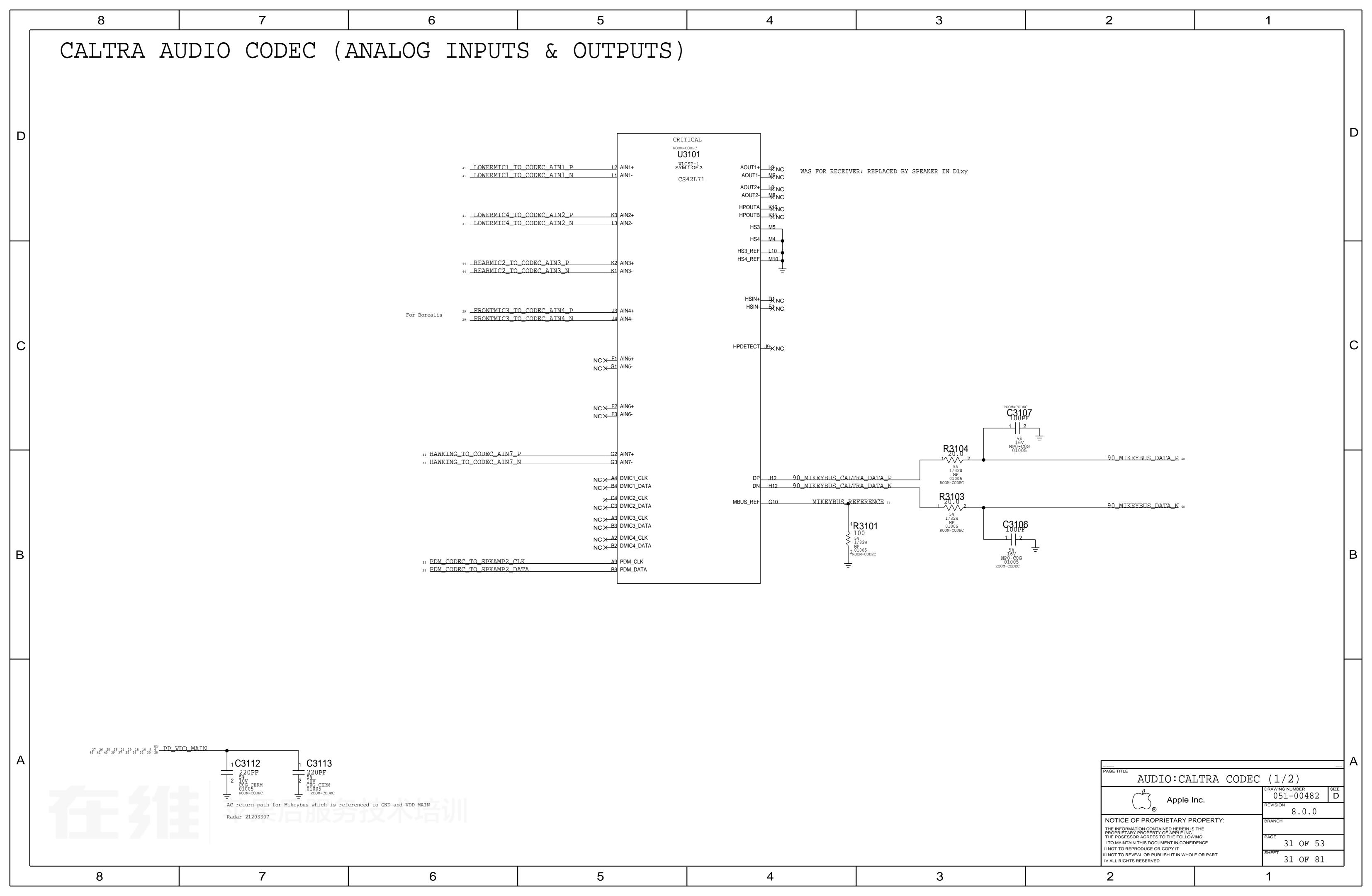


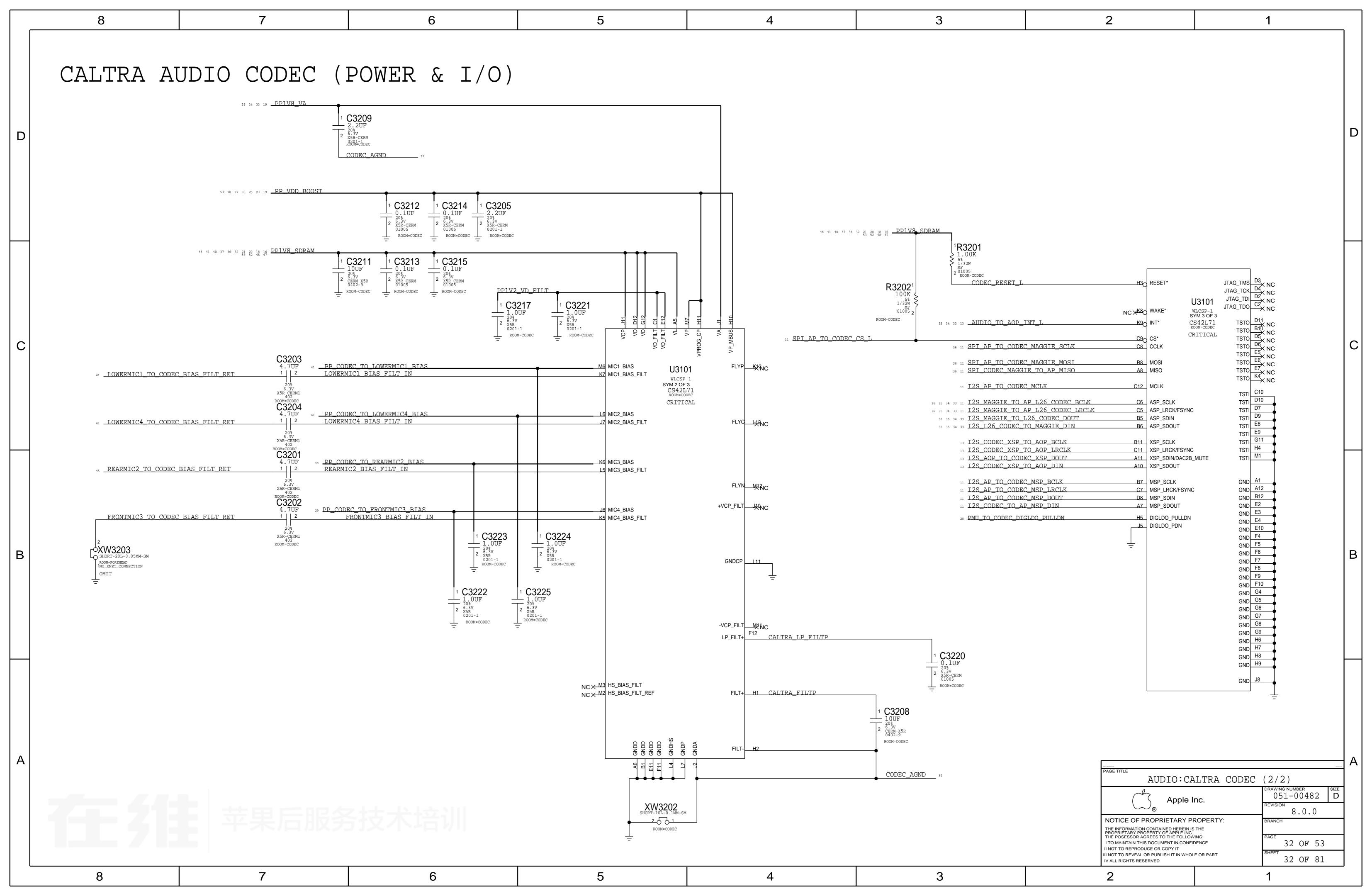


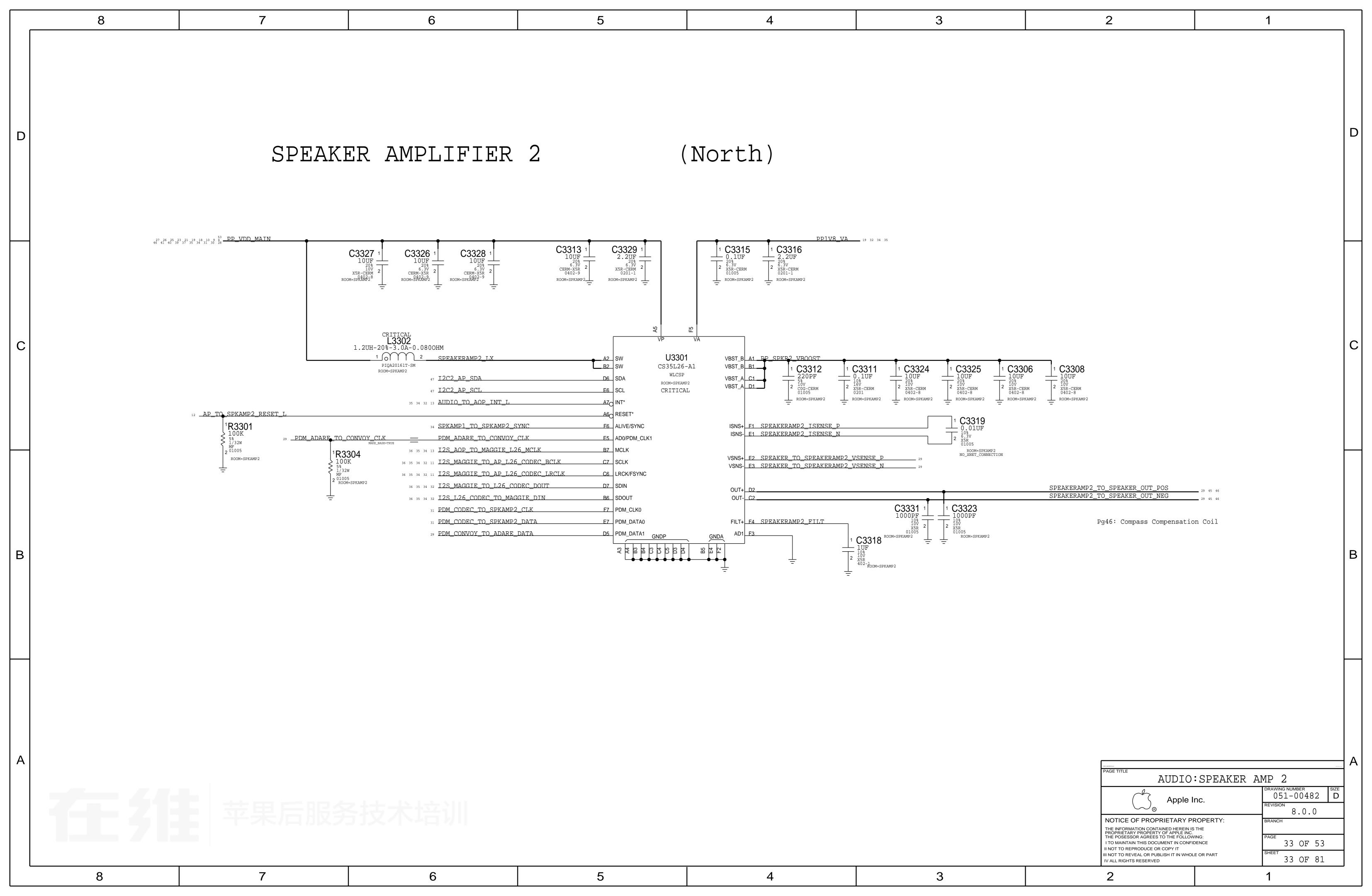


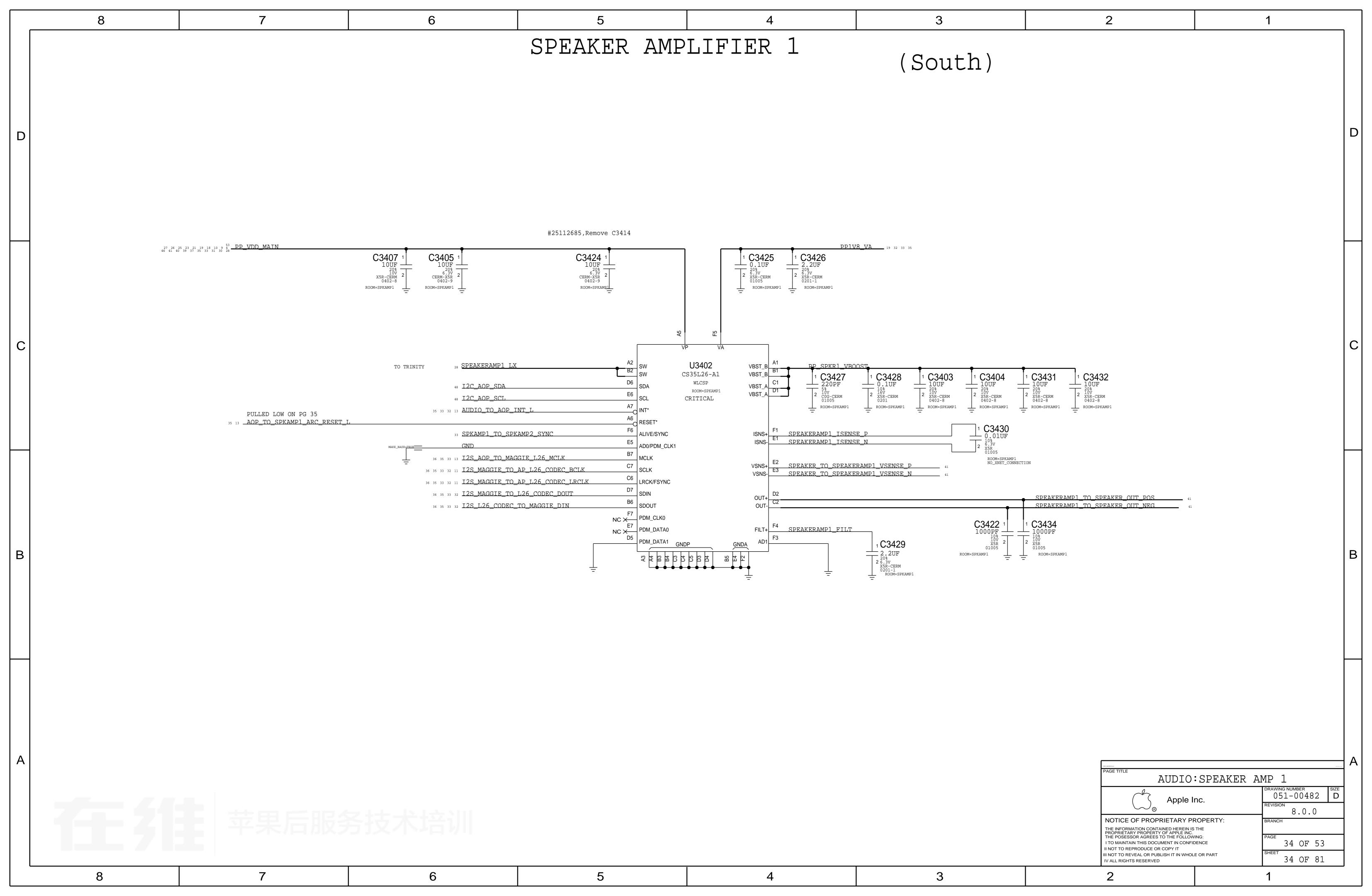


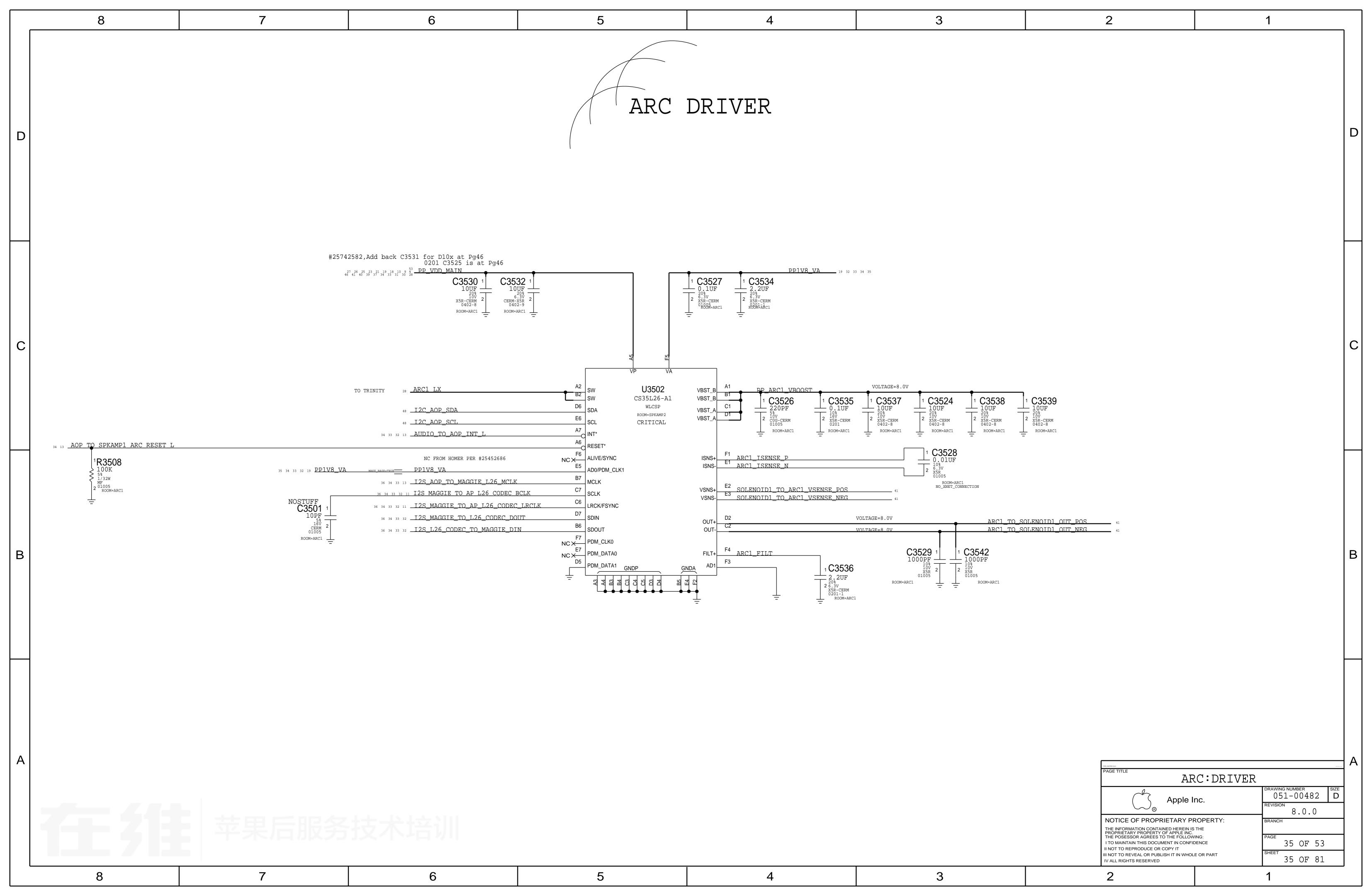


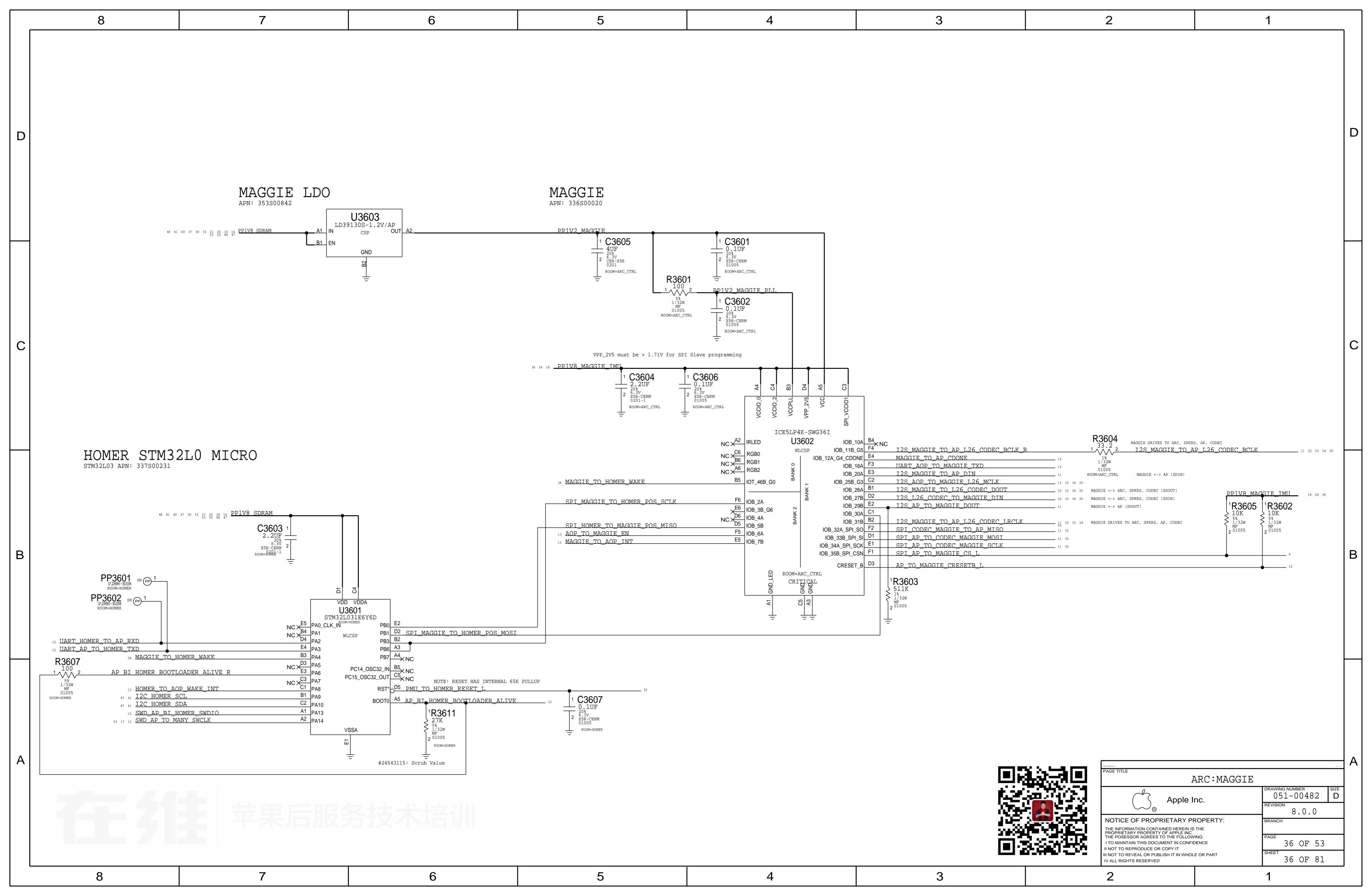


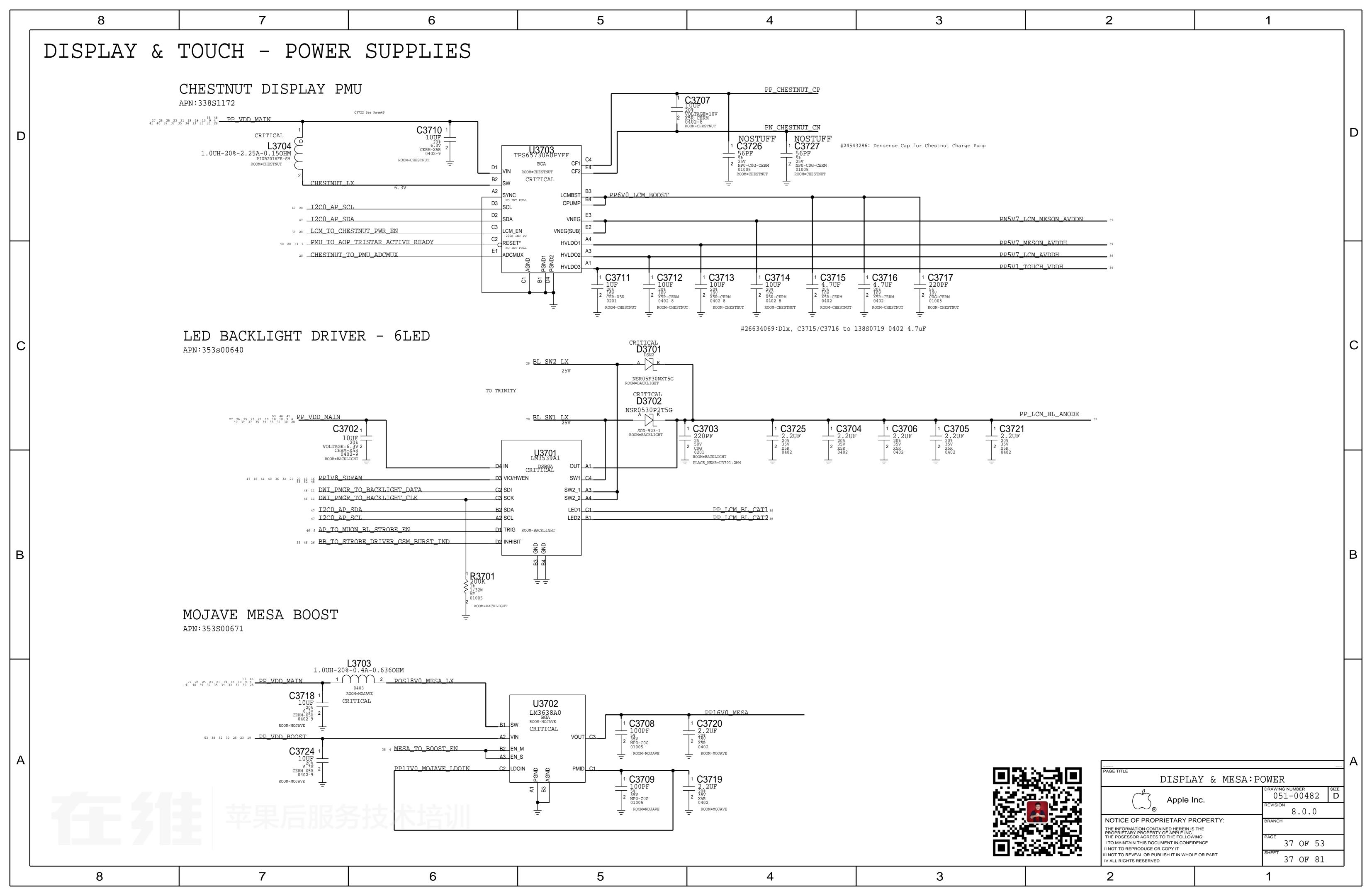


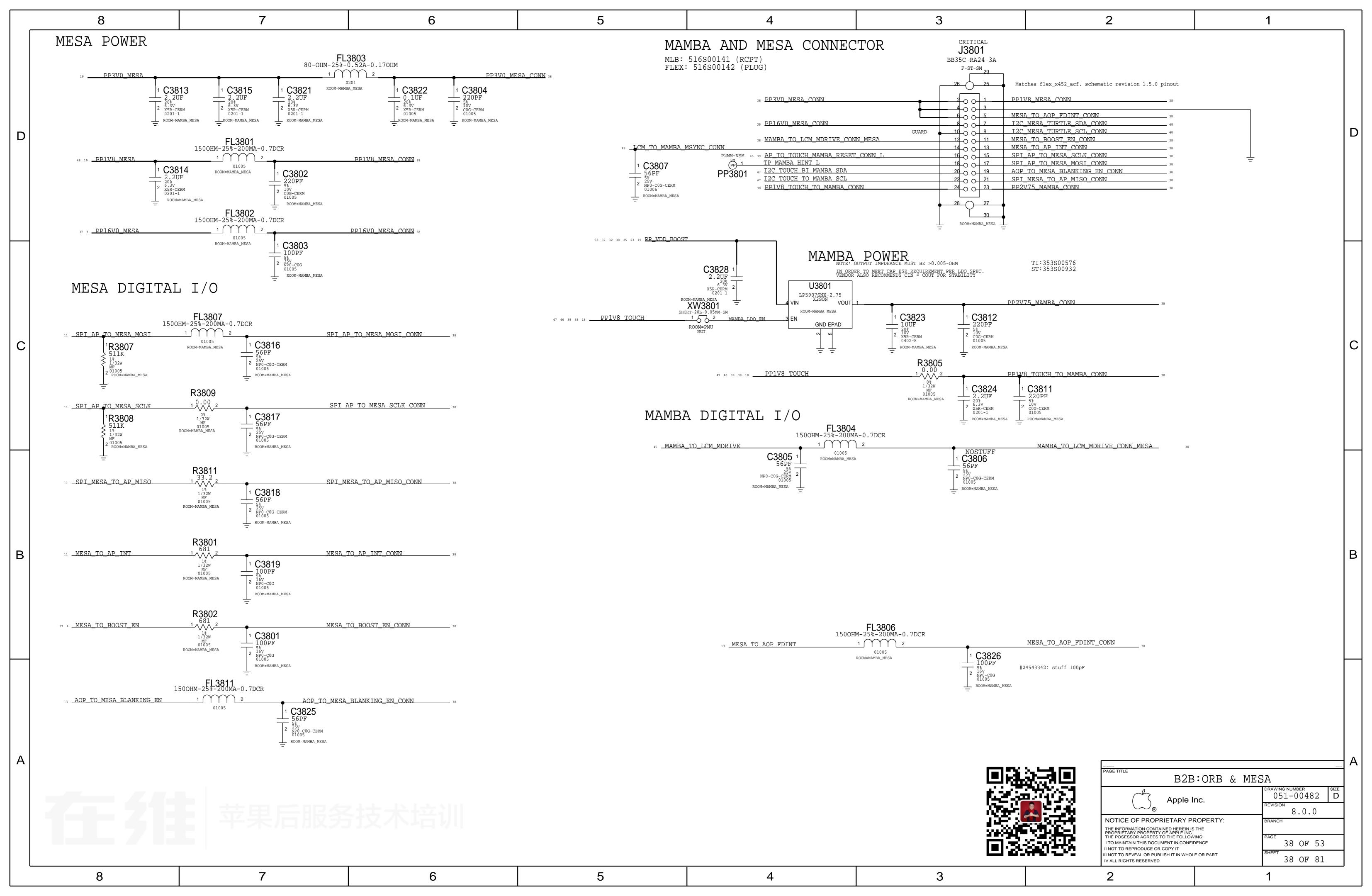


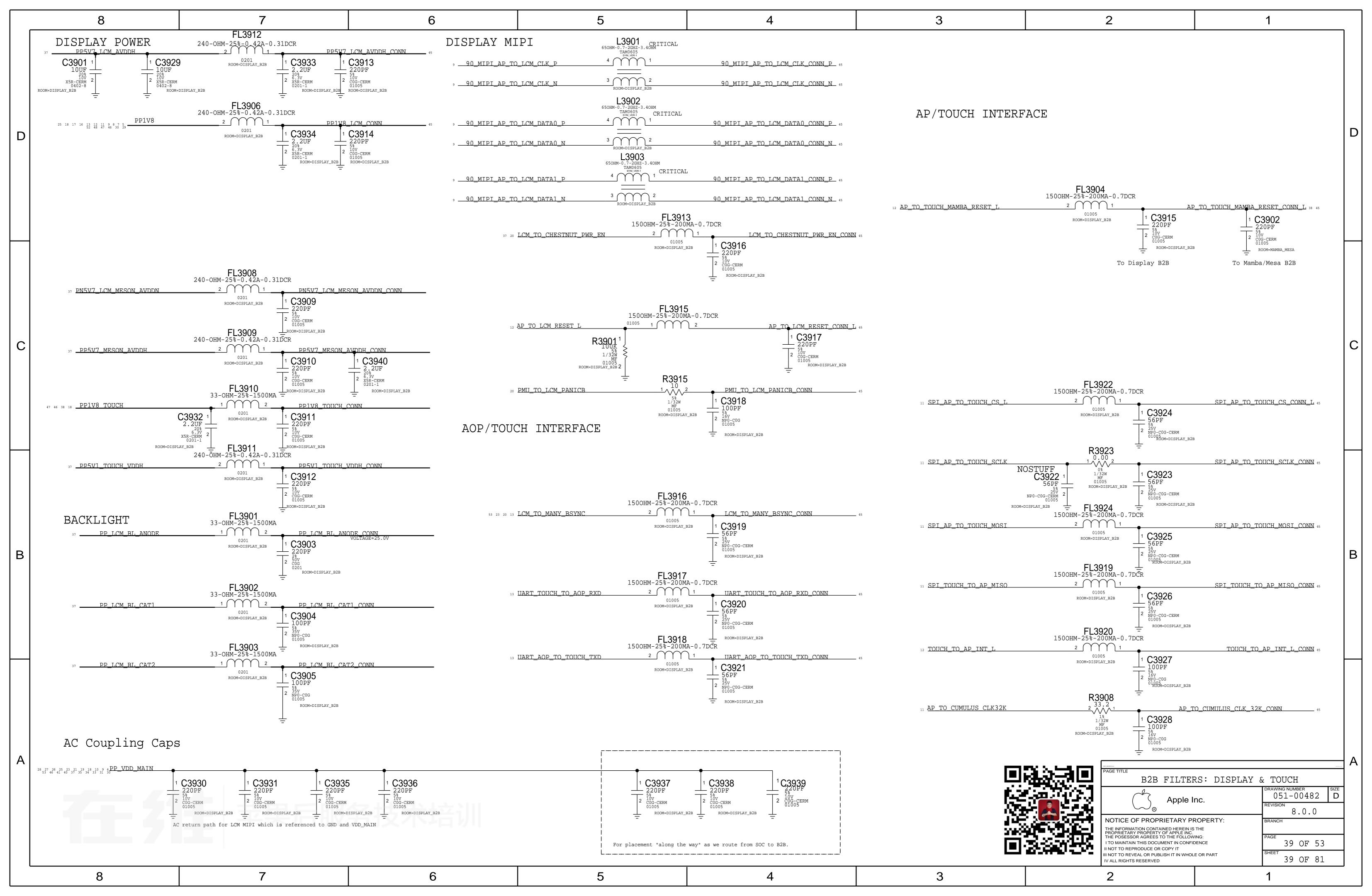


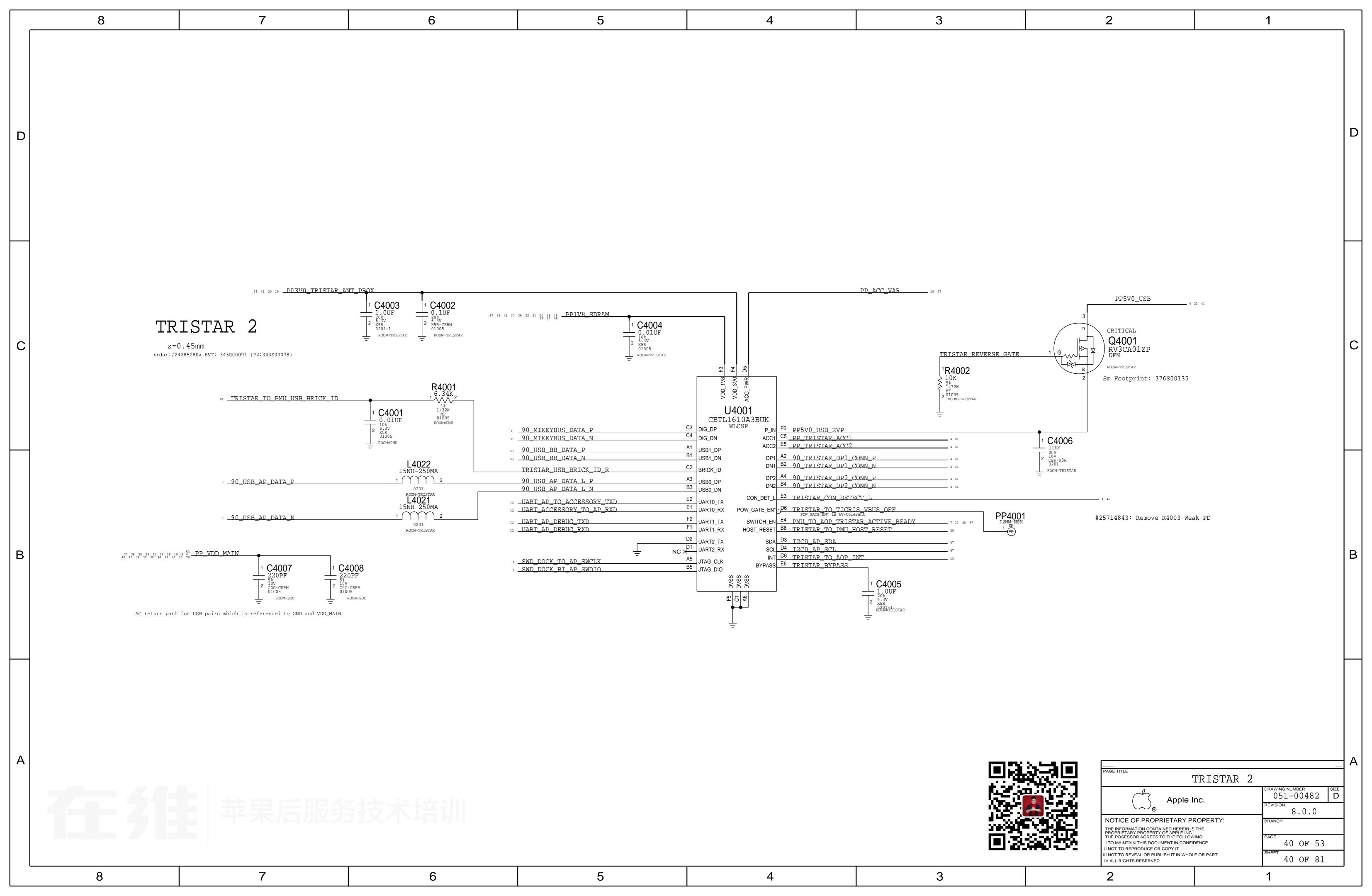


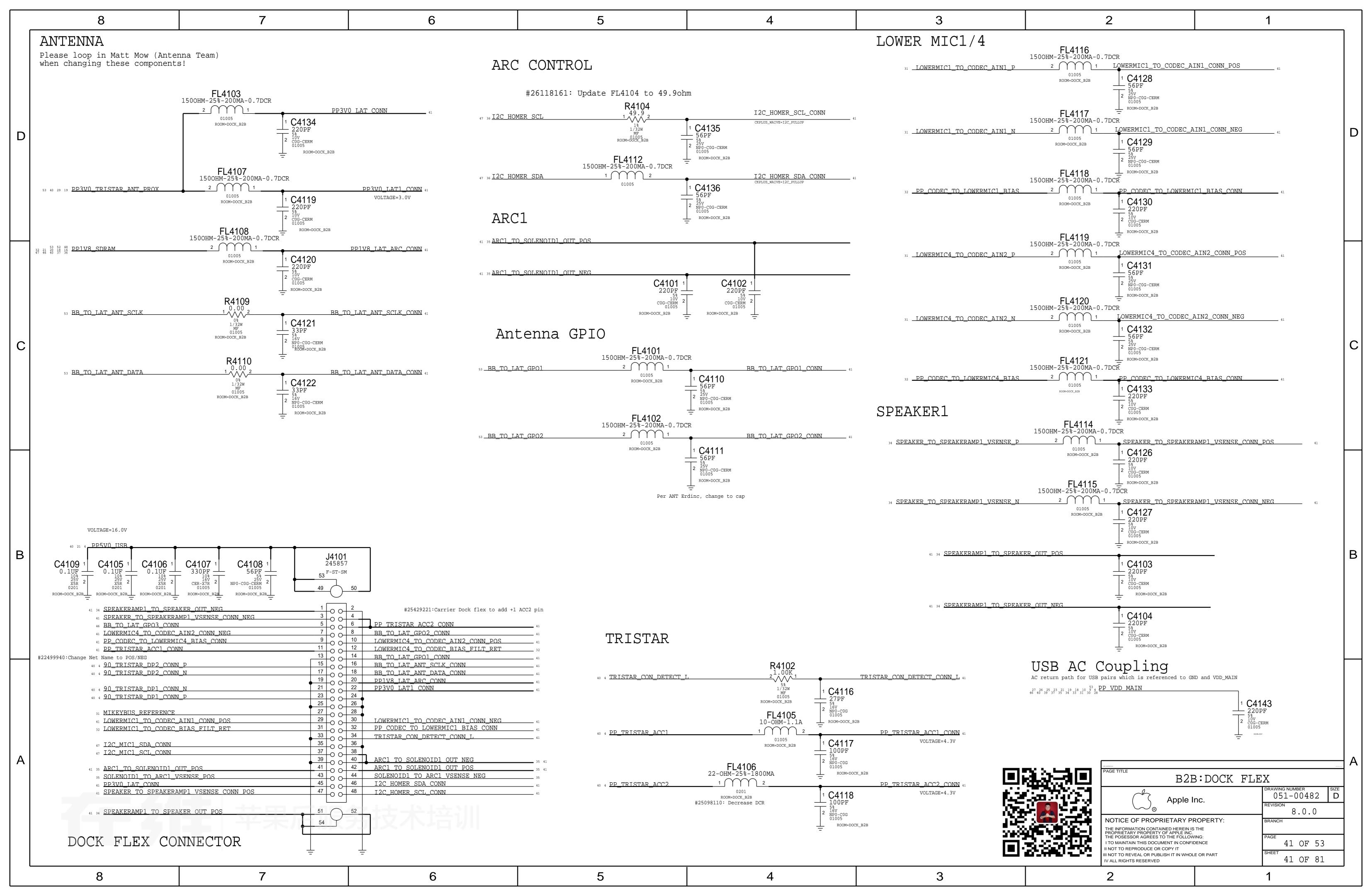


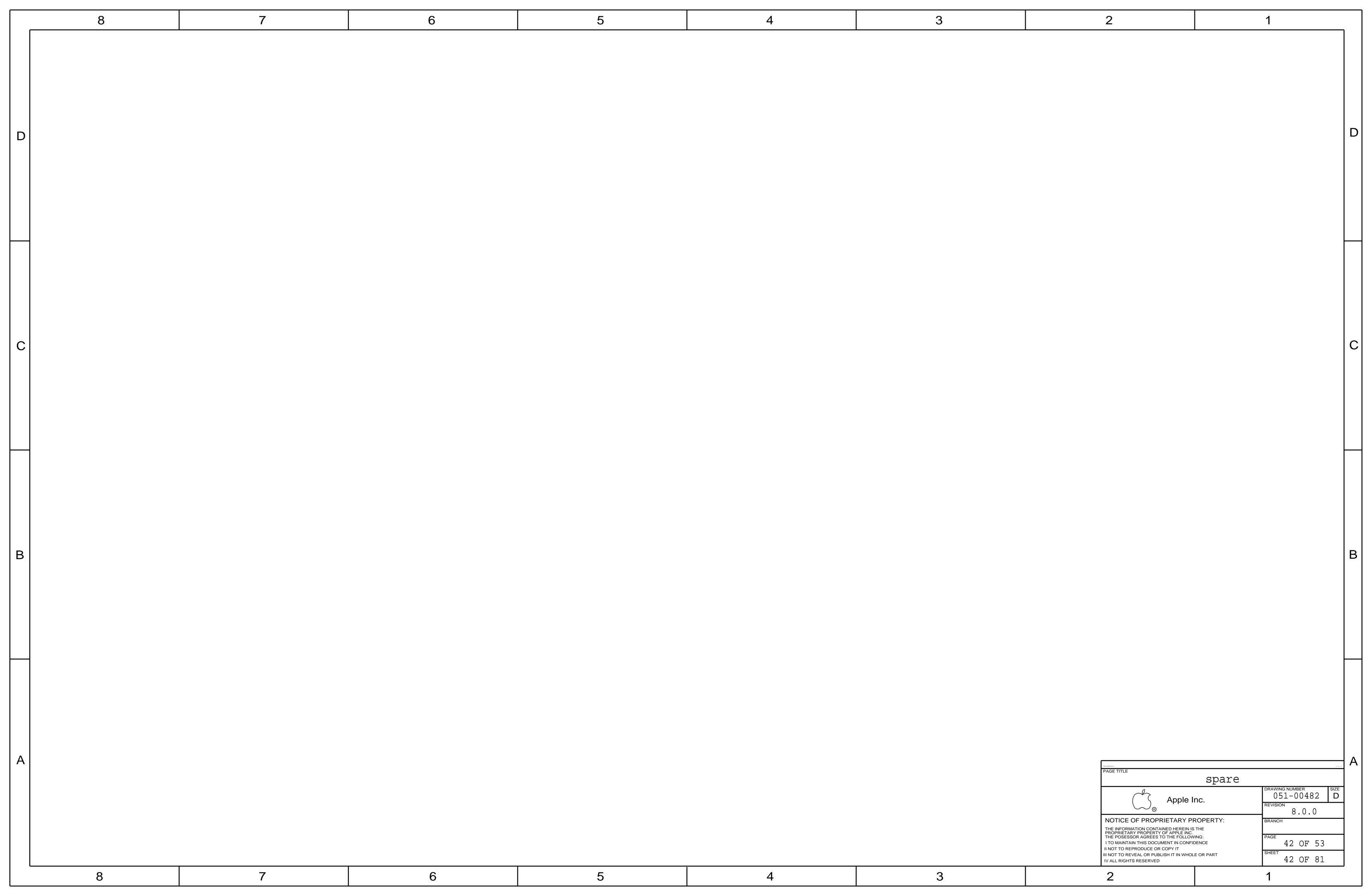


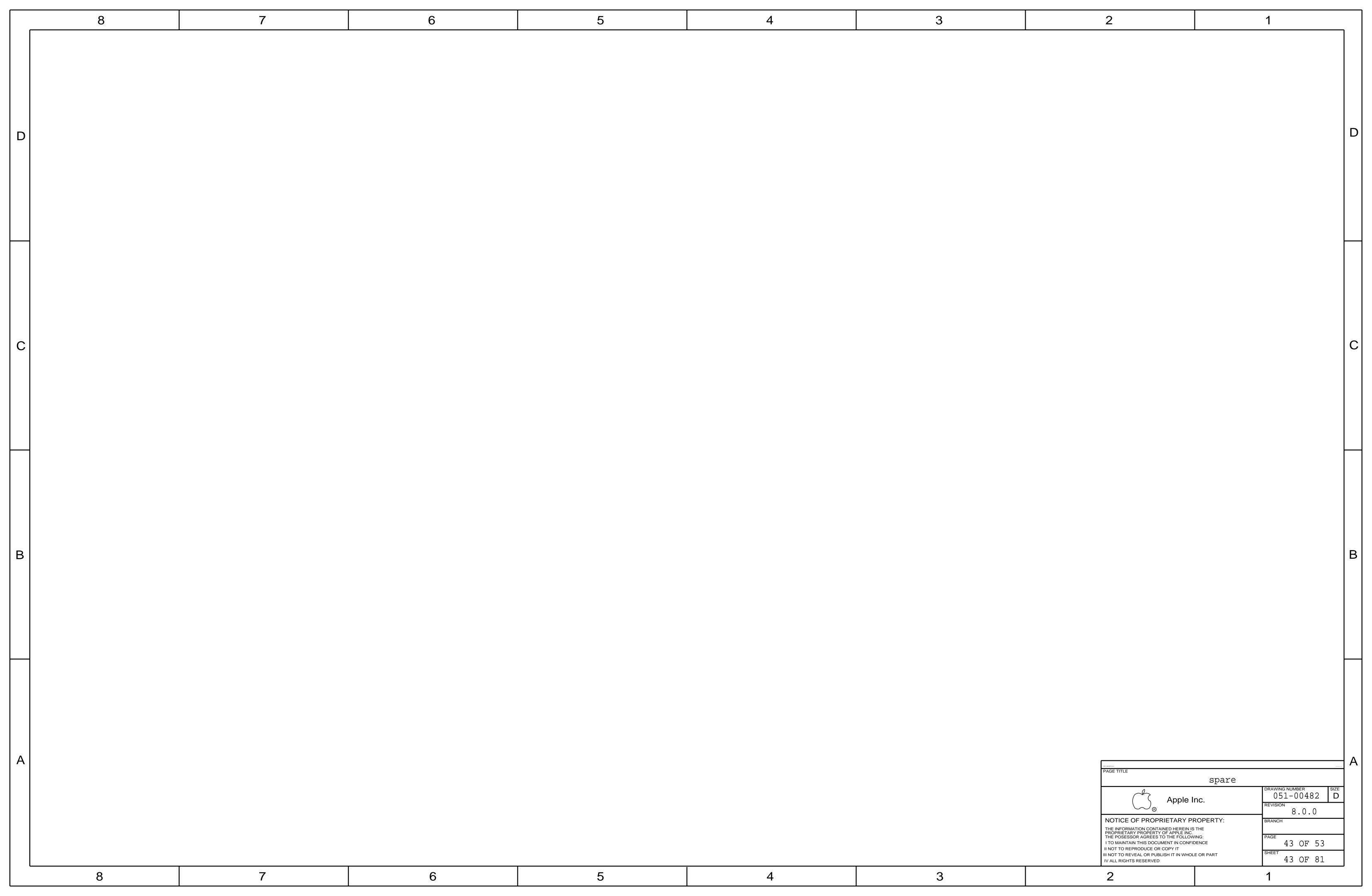


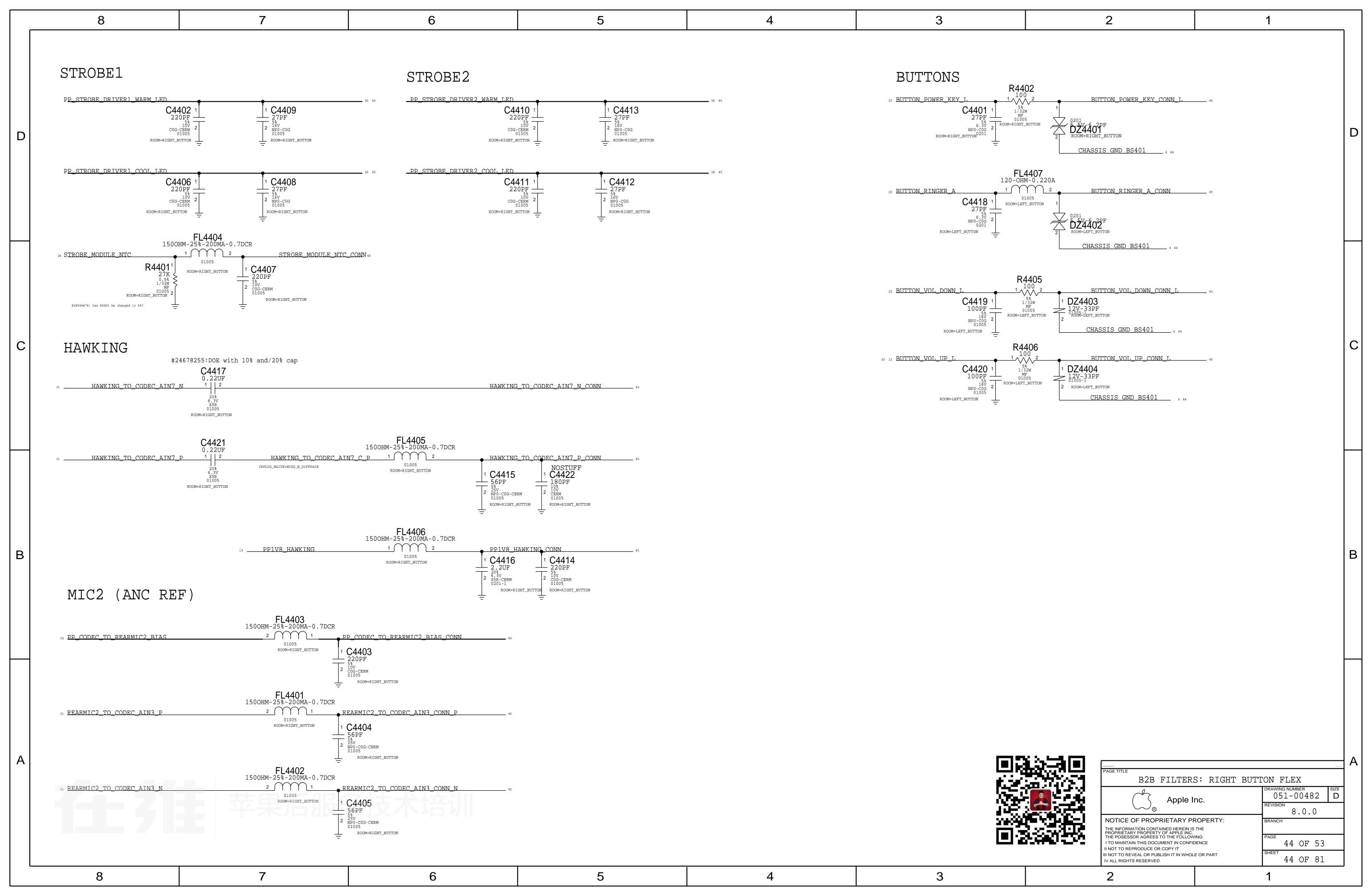


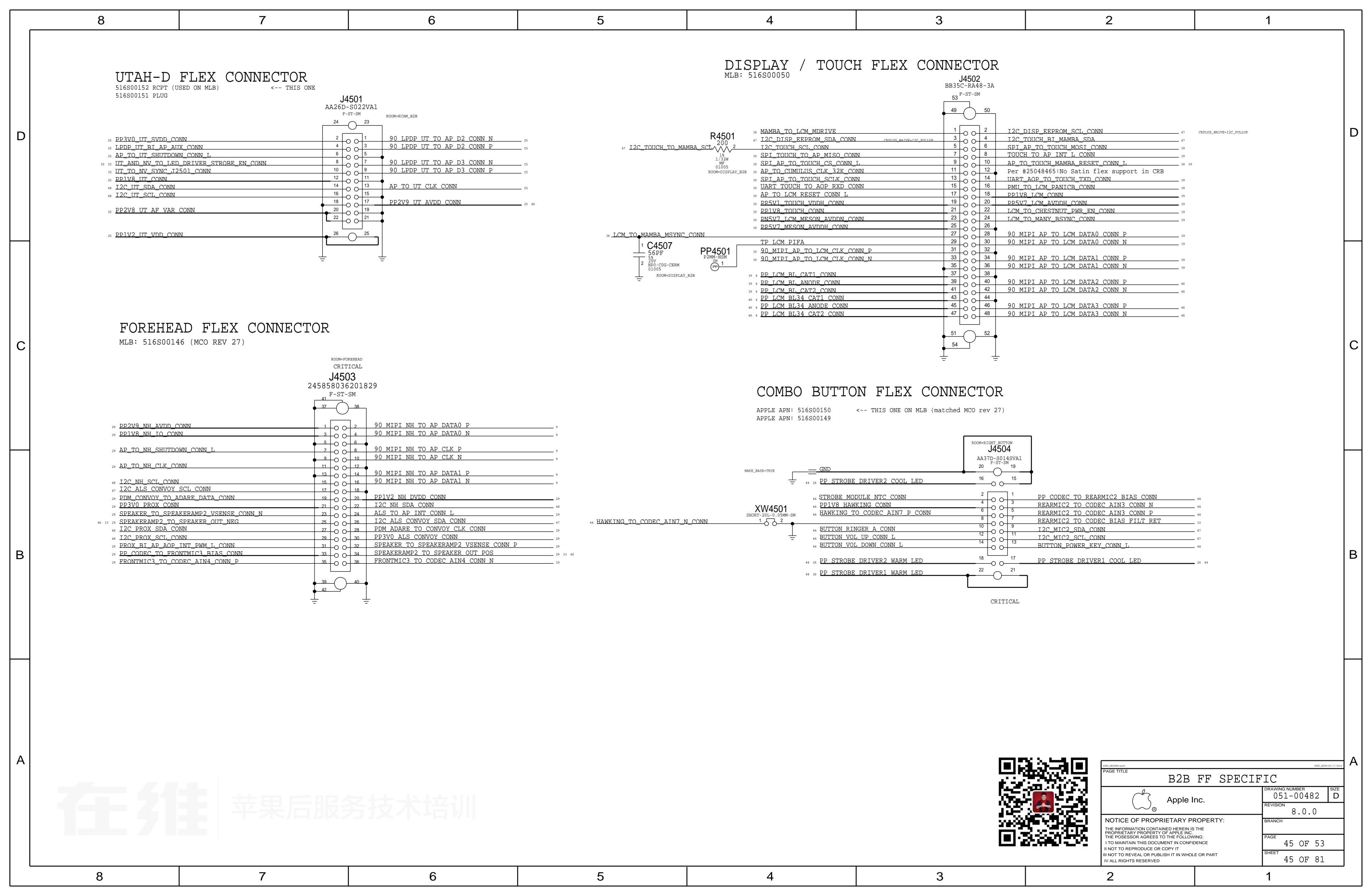


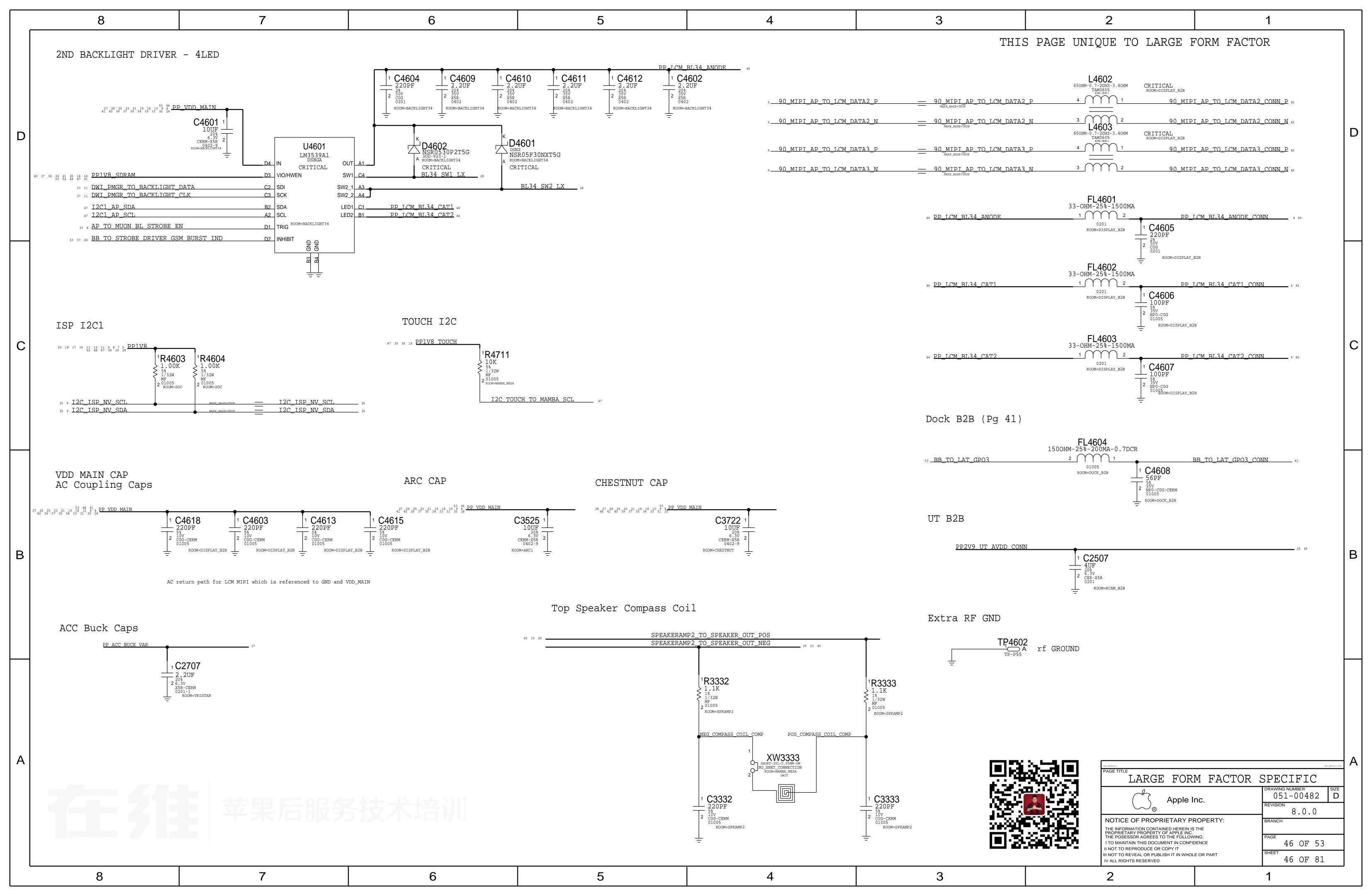


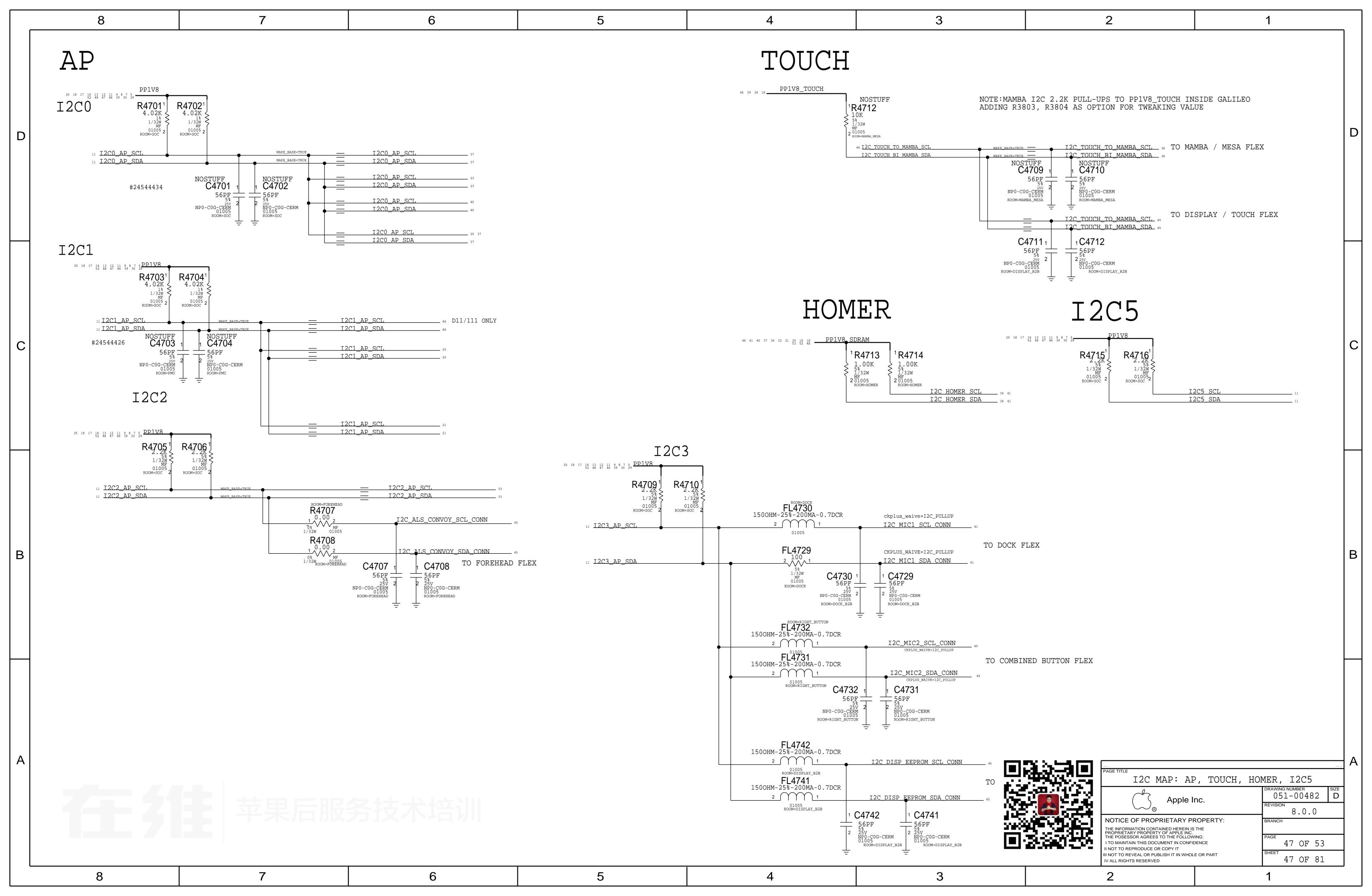


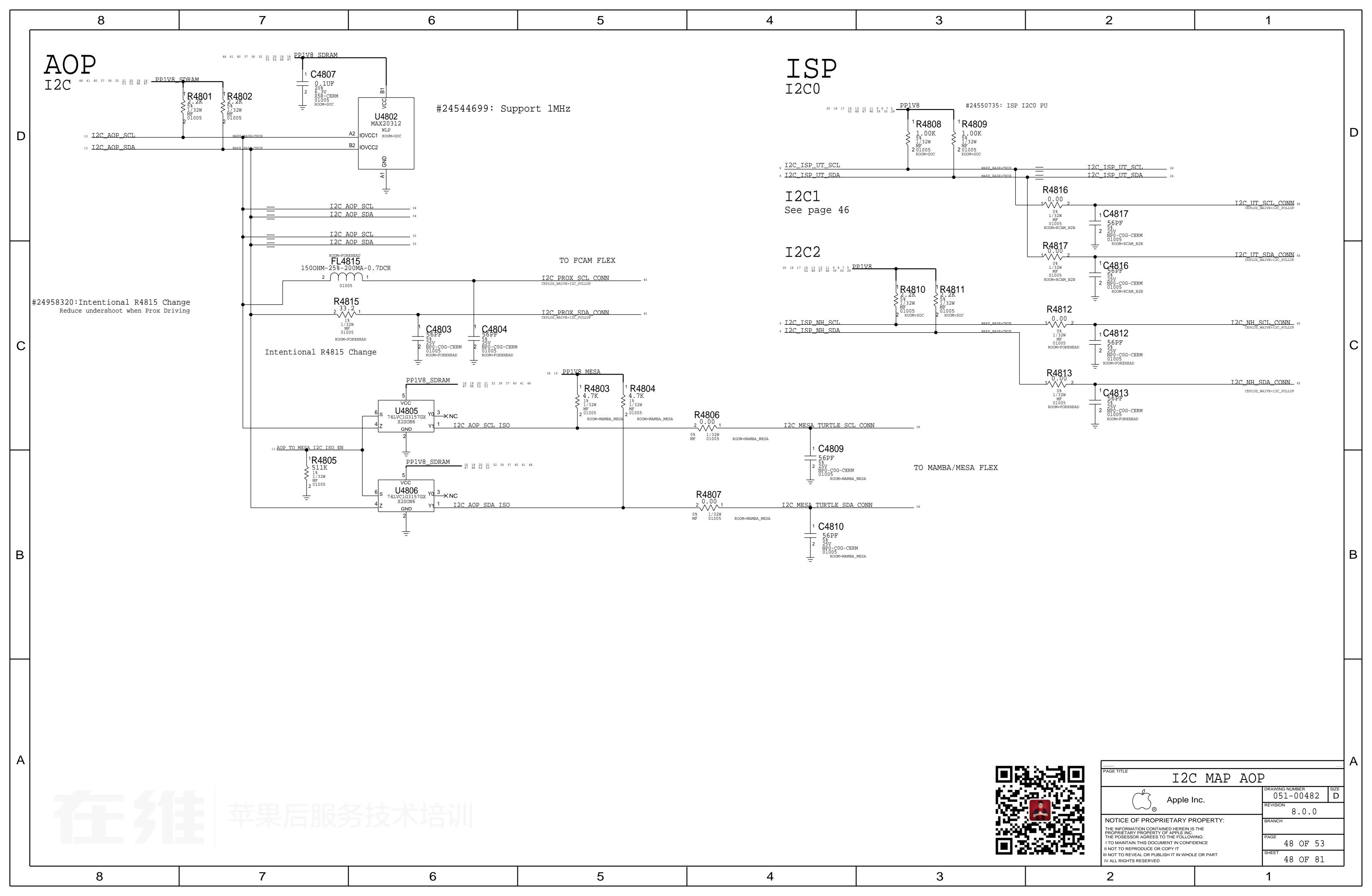


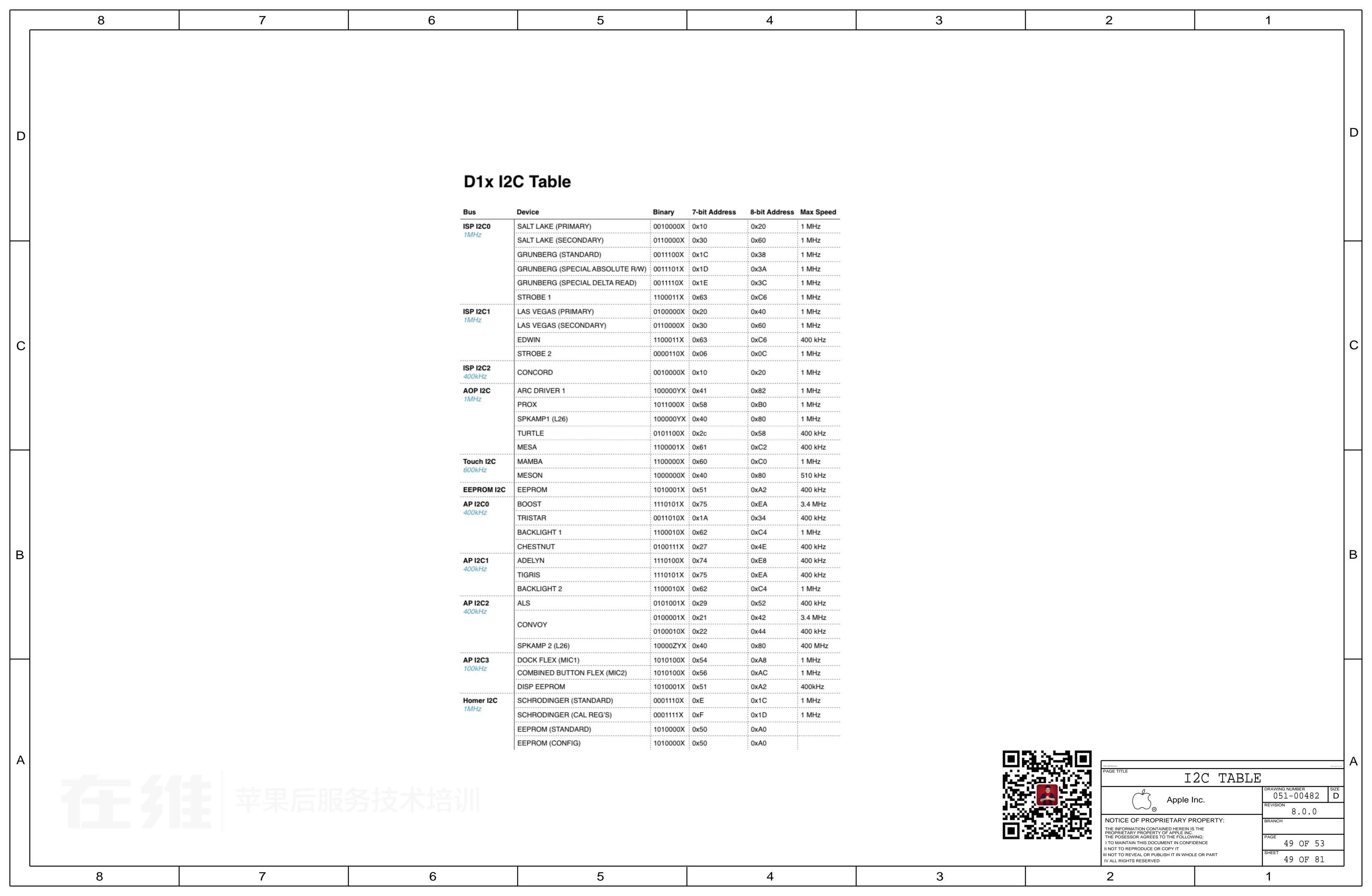


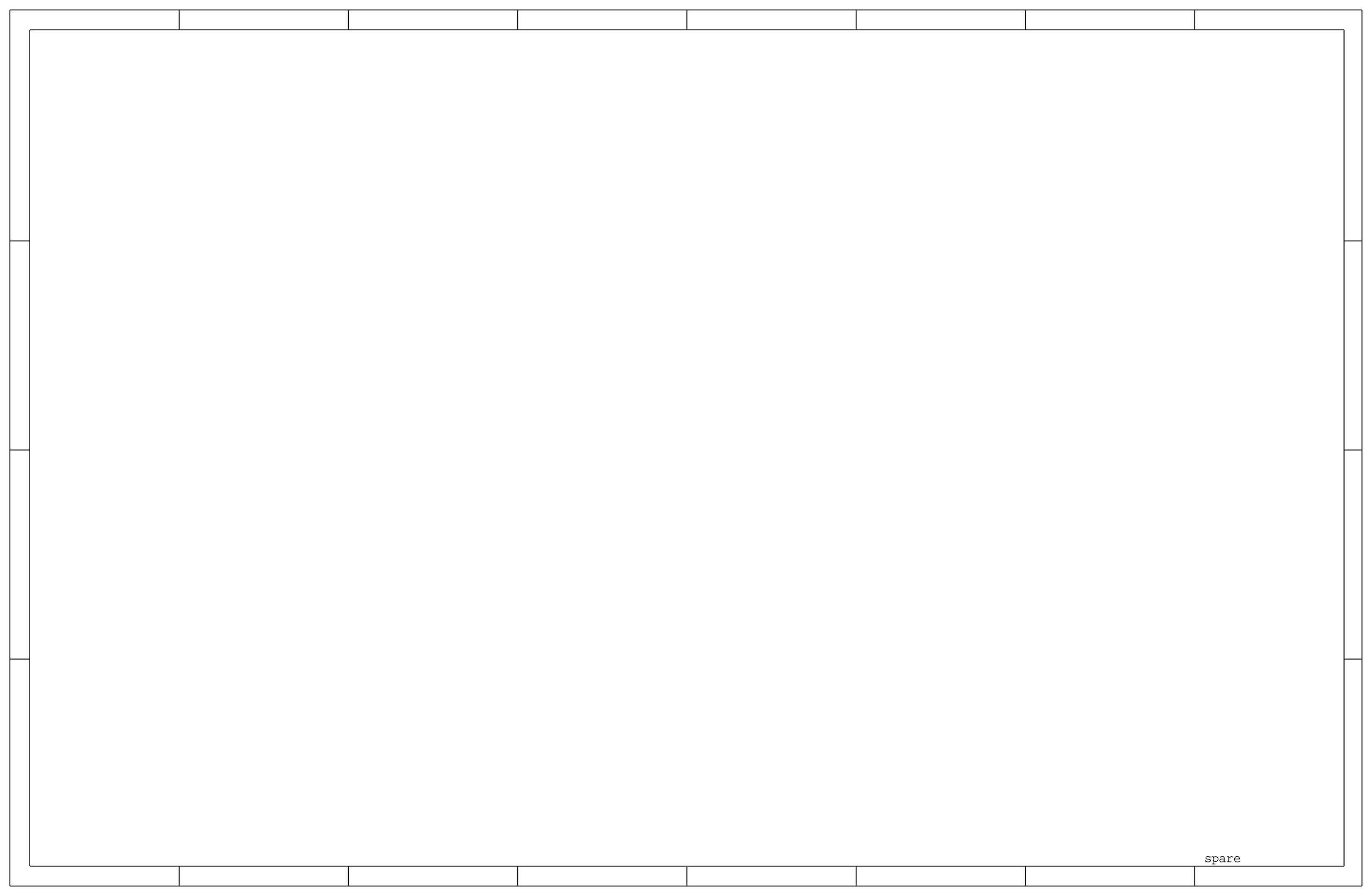


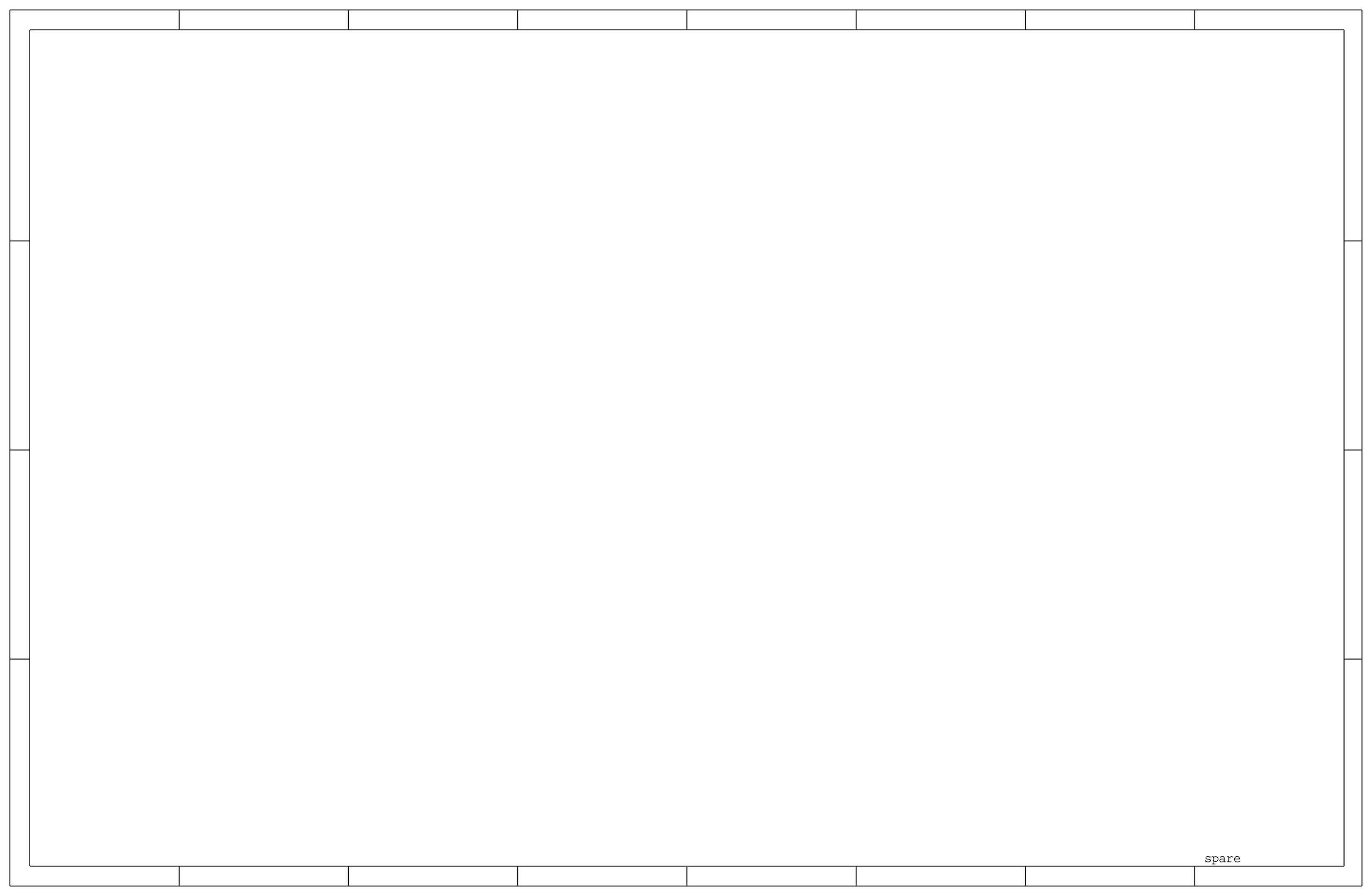


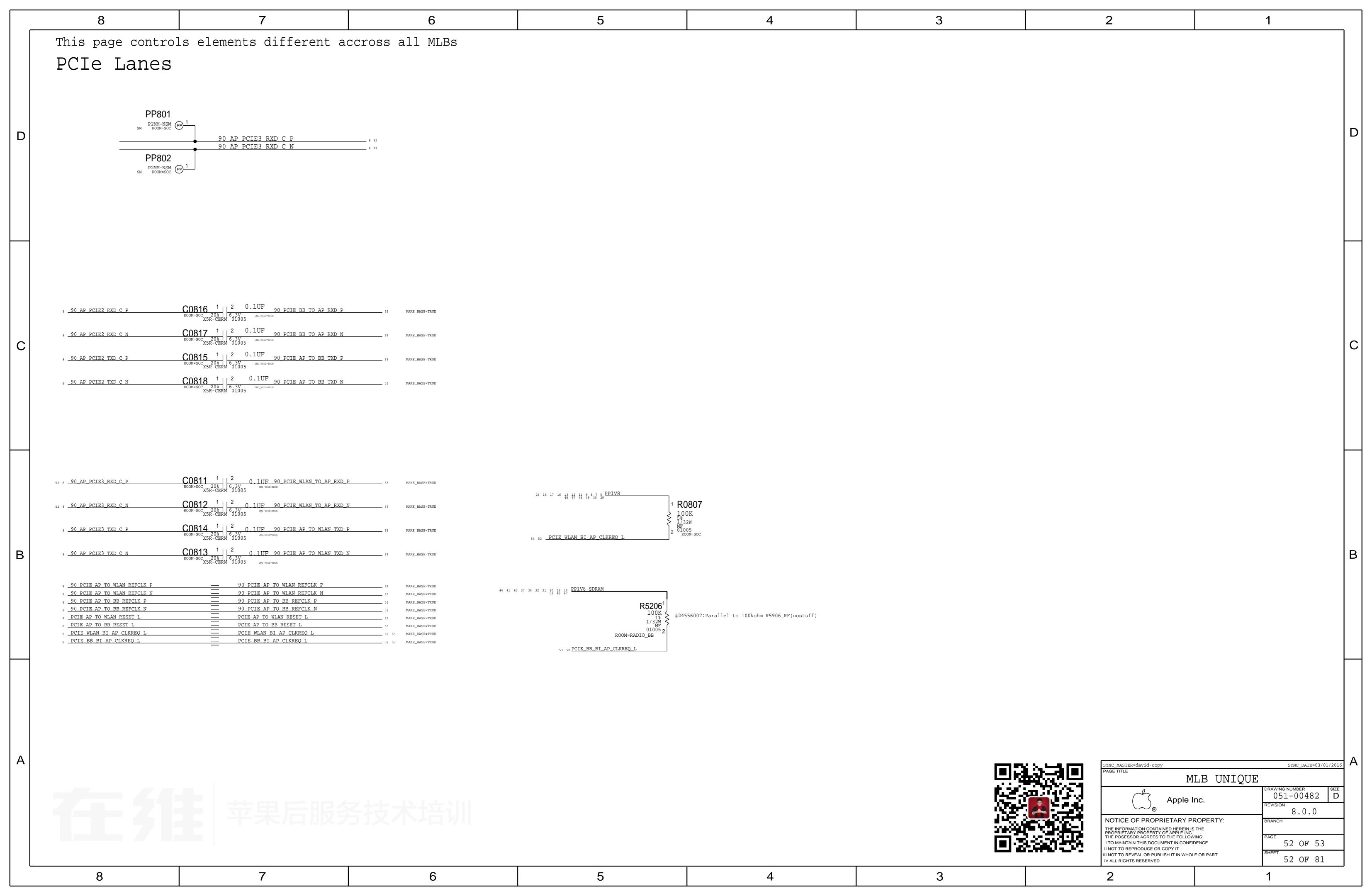


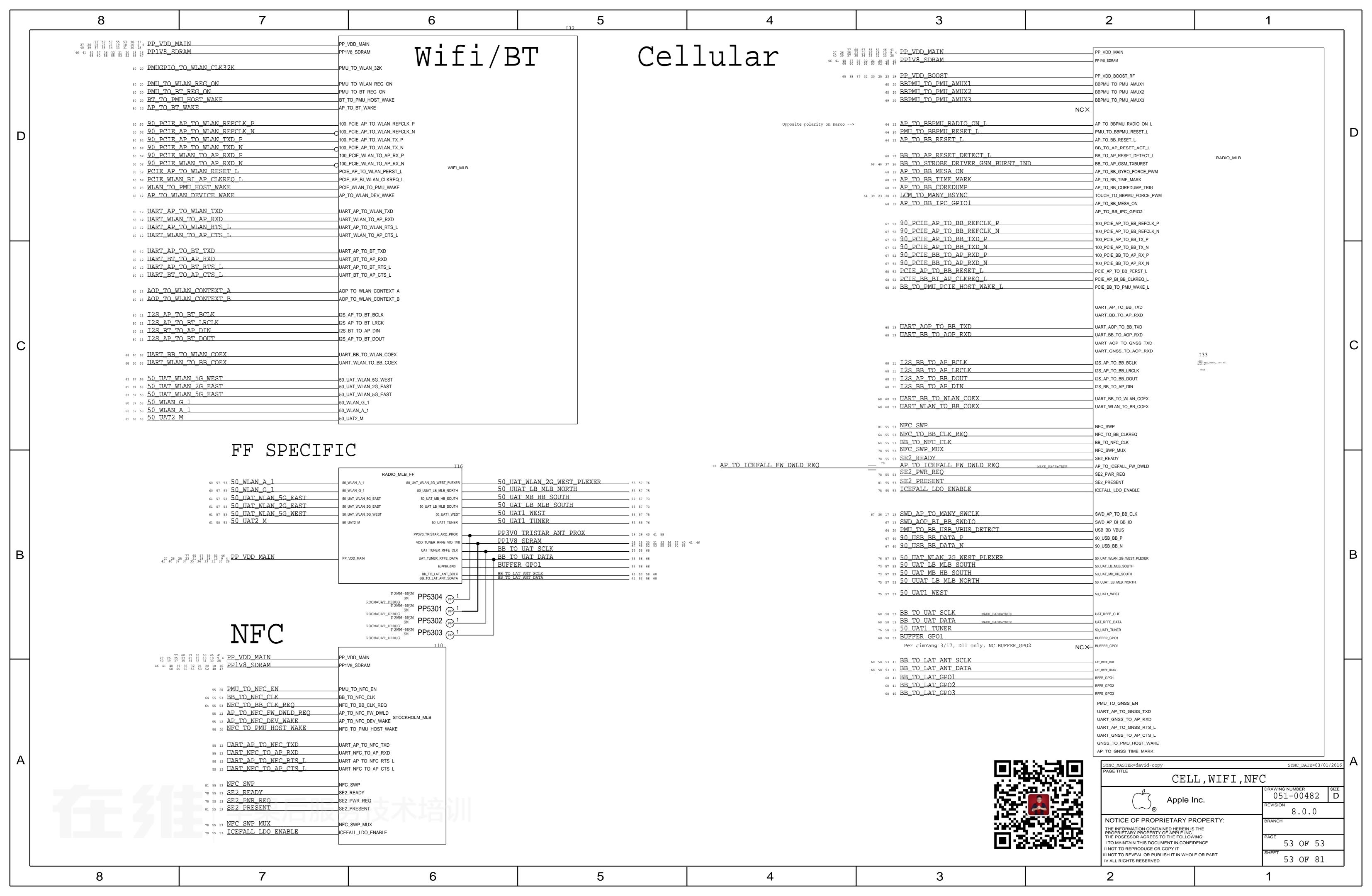


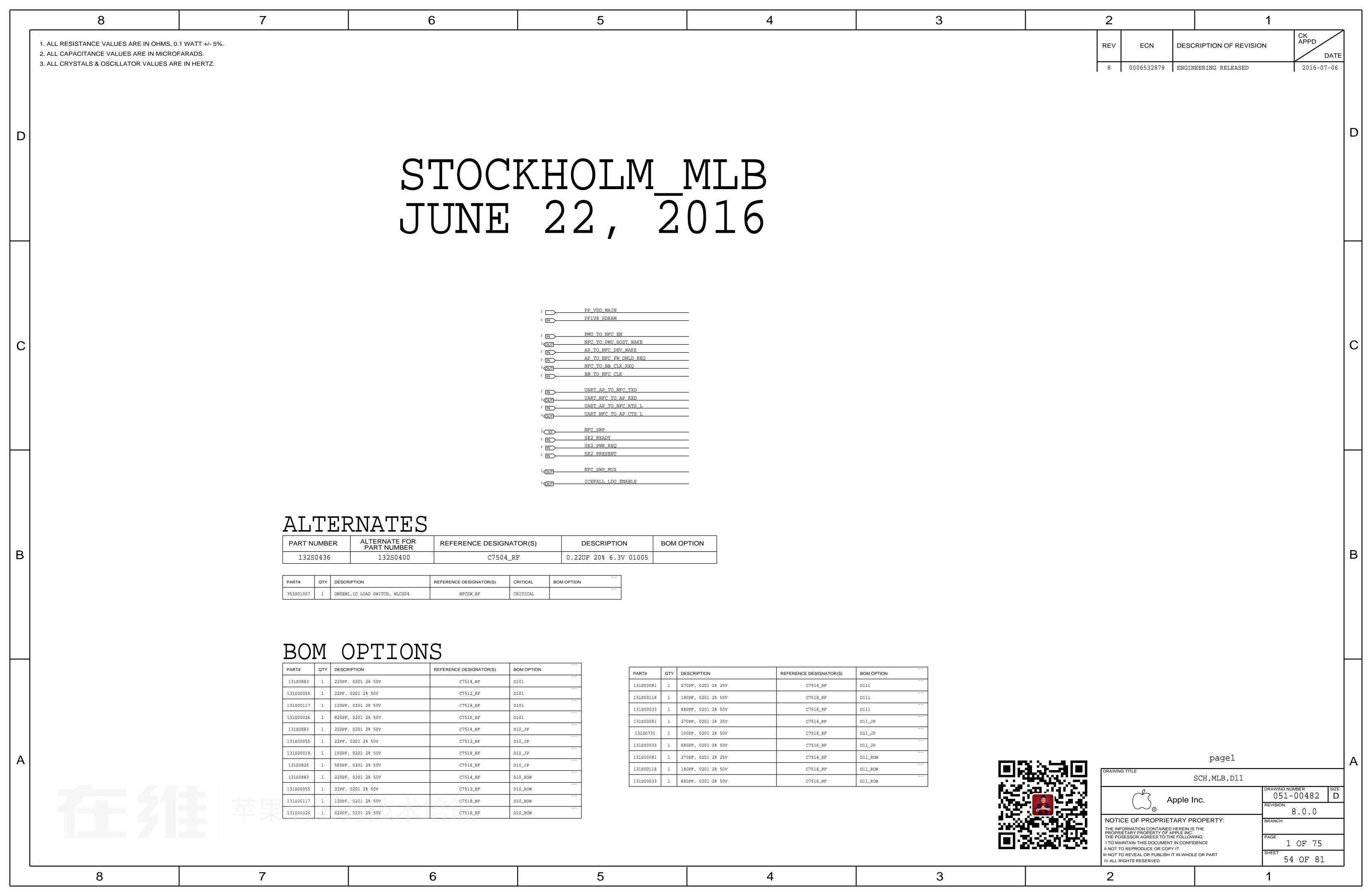


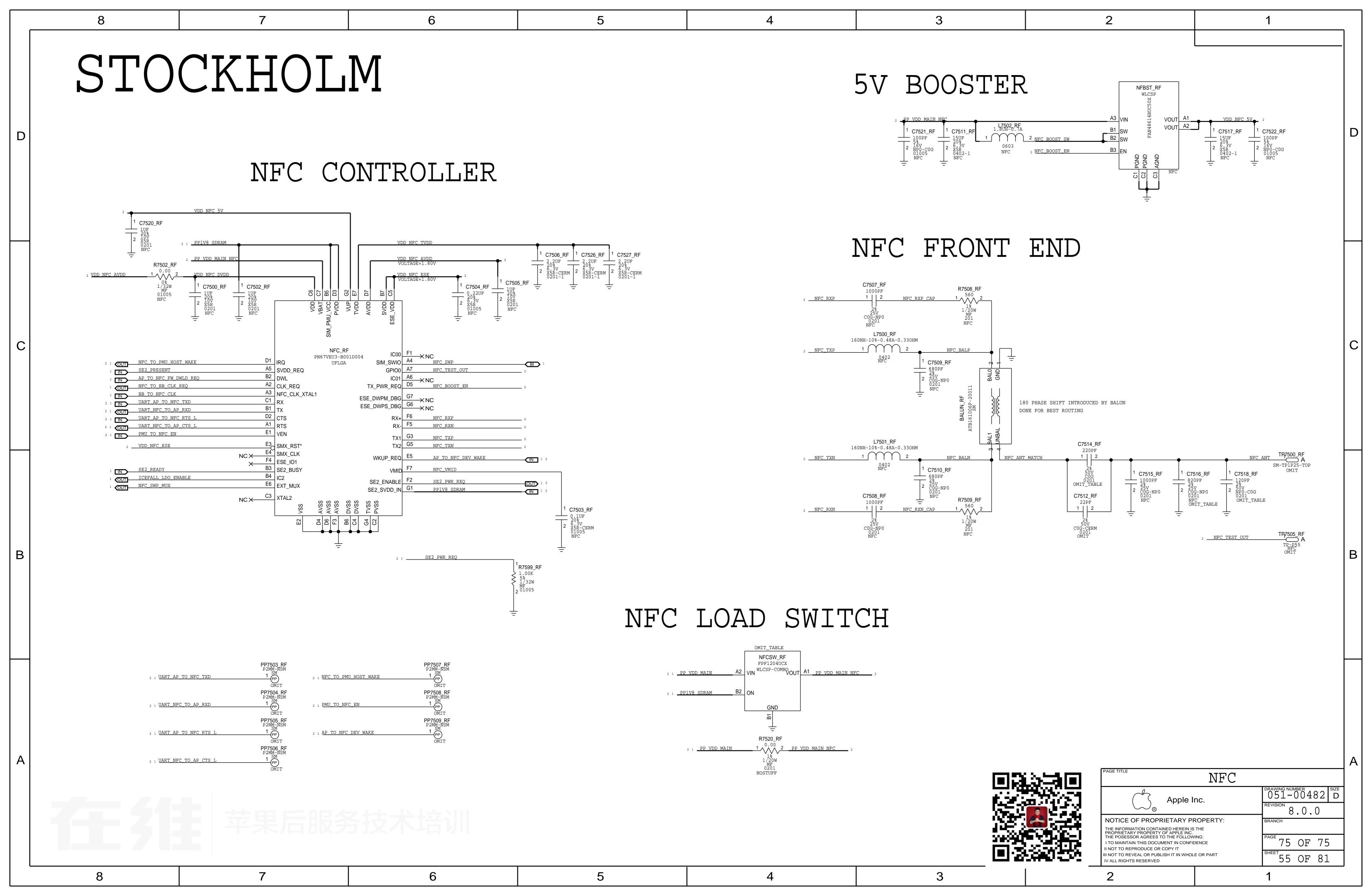


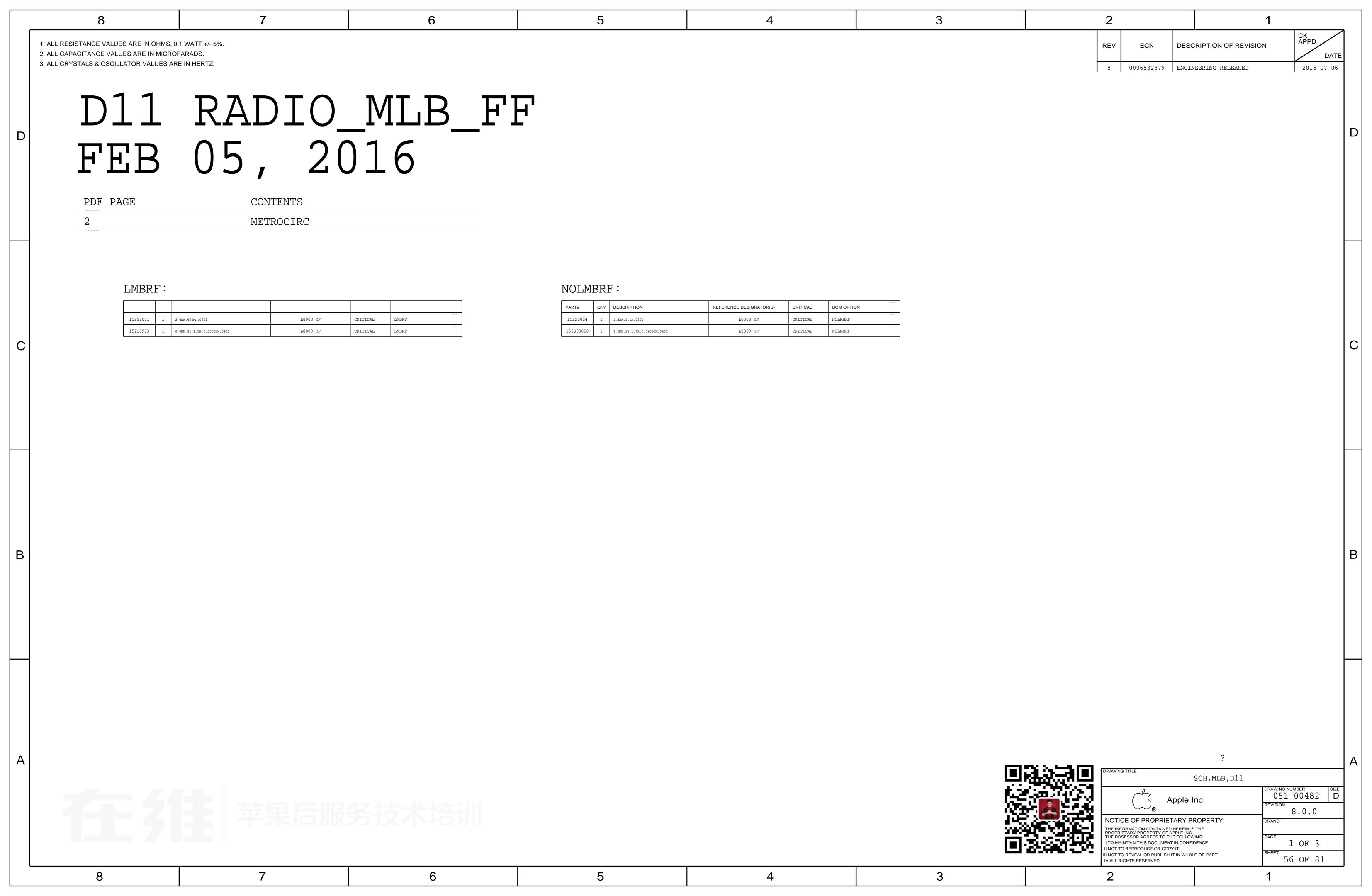


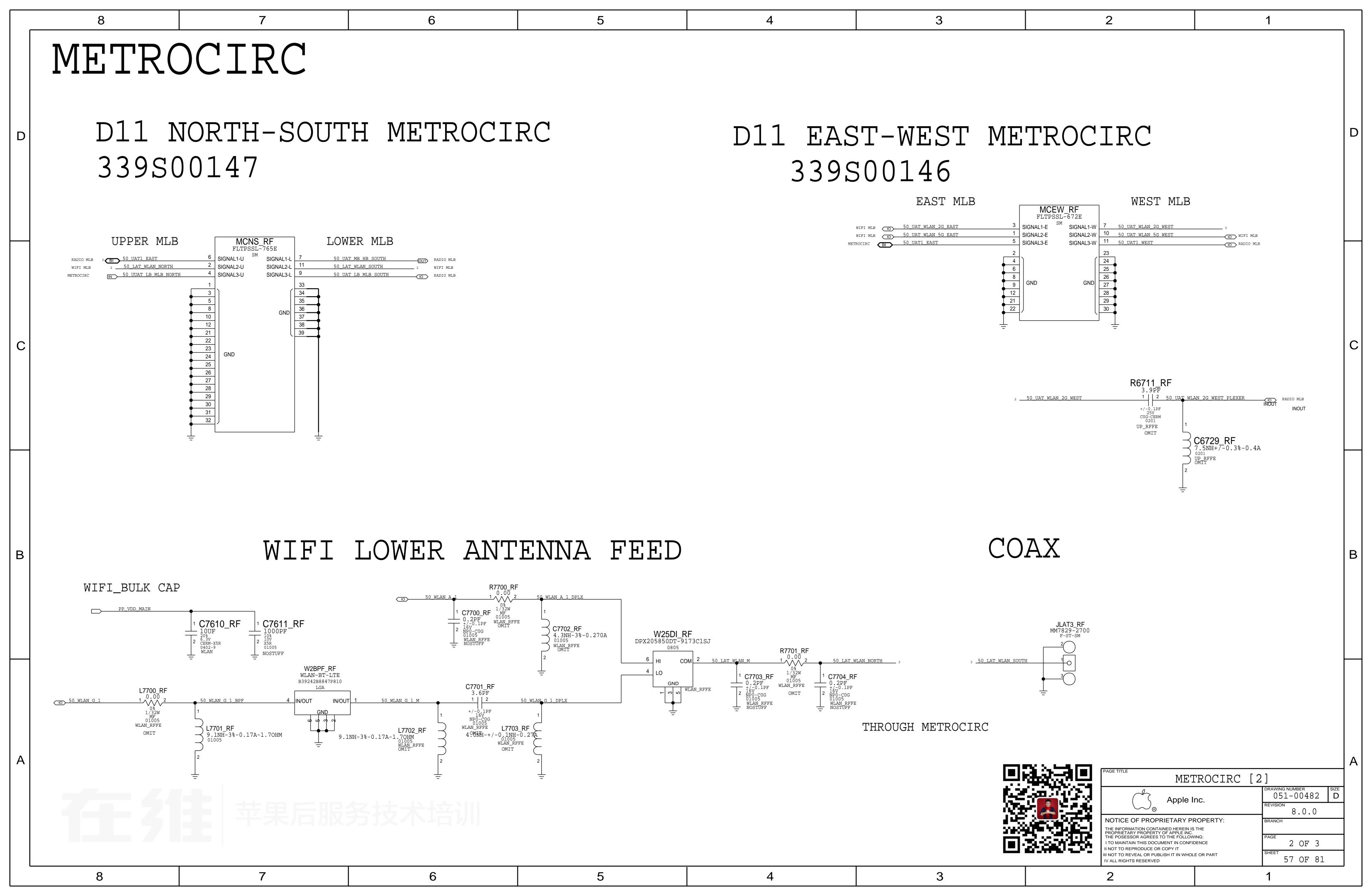


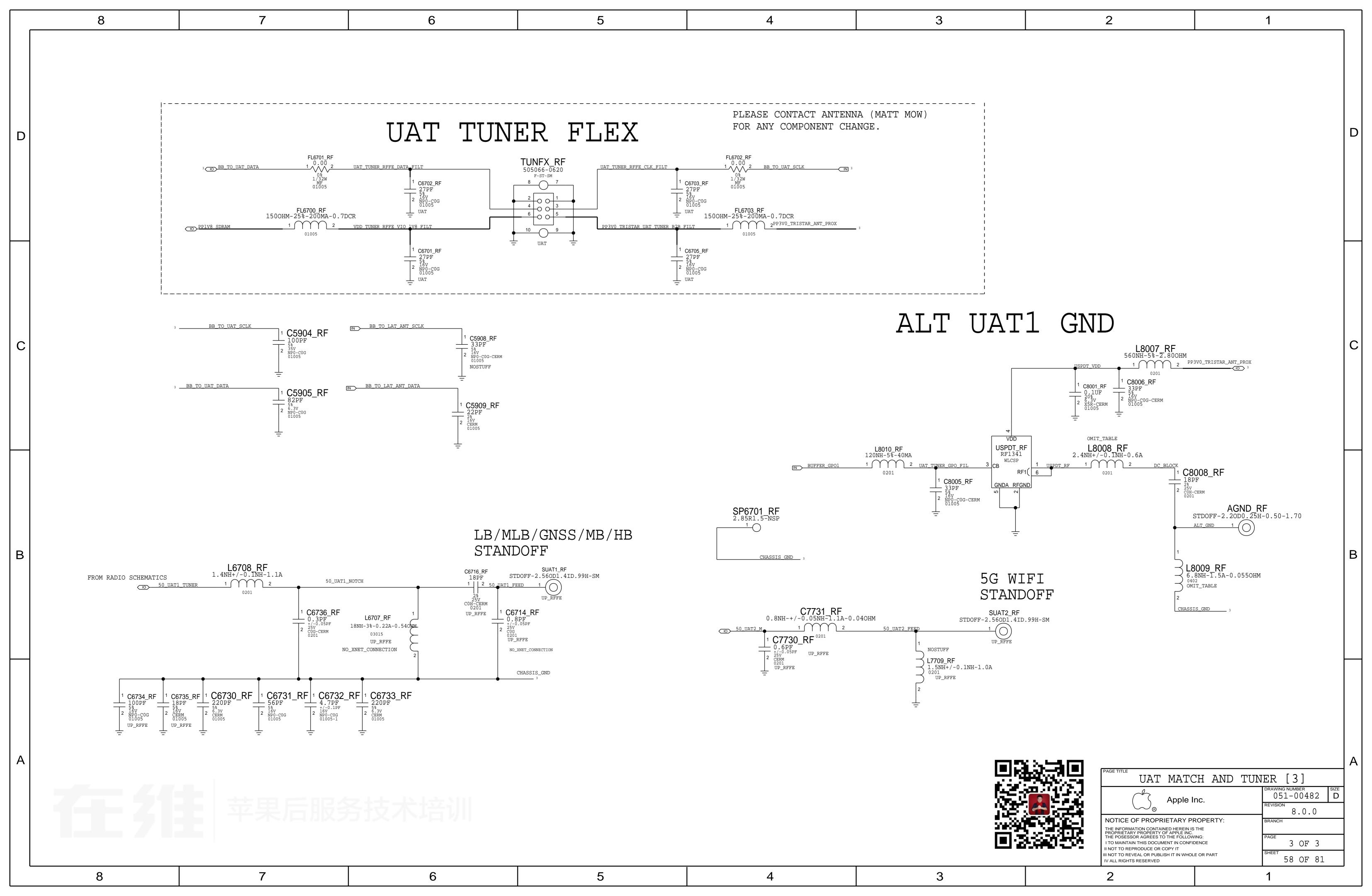




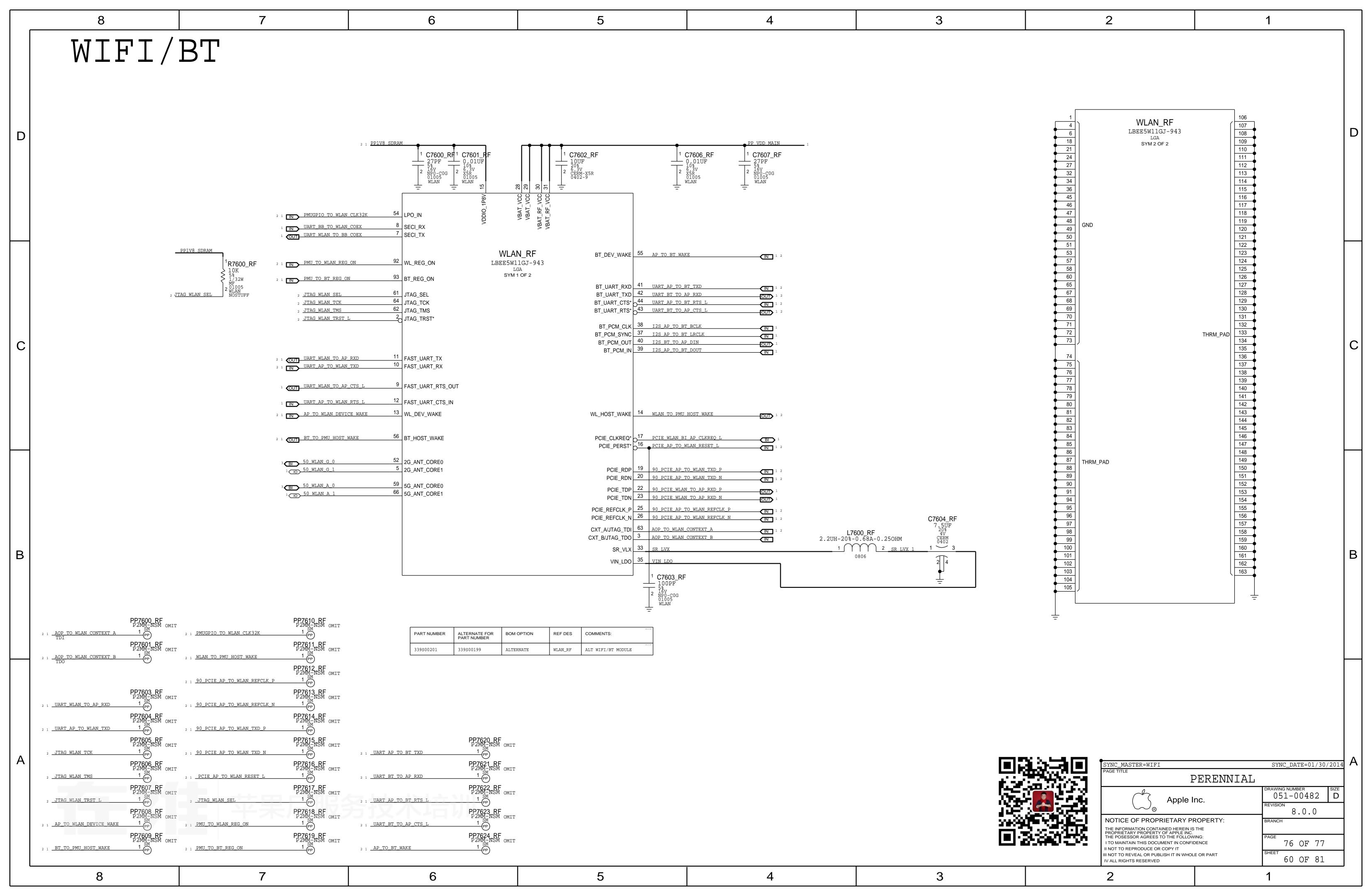


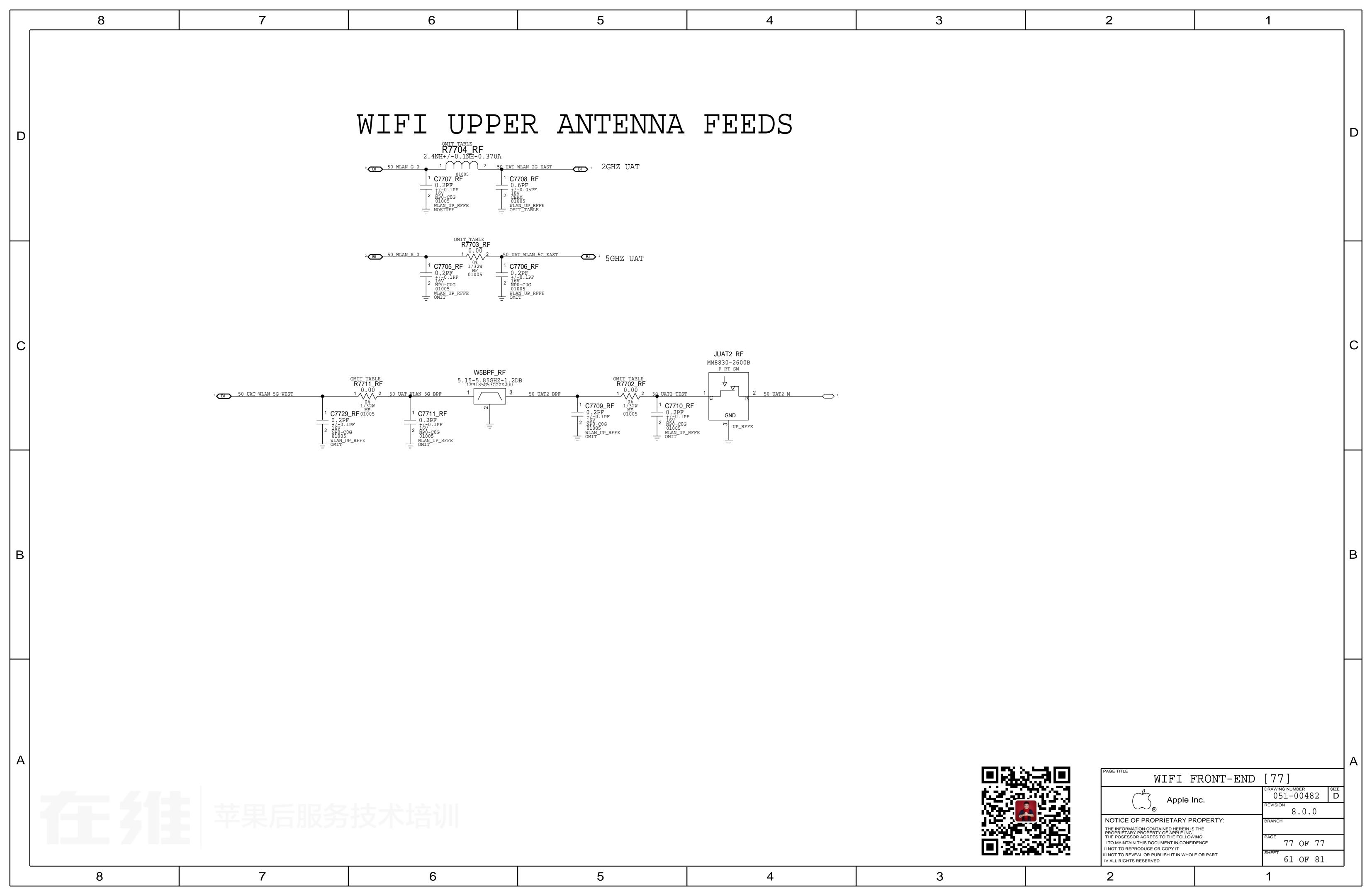






CK APPD 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. REV DESCRIPTION OF REVISION ECN 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. DATI 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. 2016-07-06 0006532879 ENGINEERING RELEASED D1X WIFI_MLB (PERENNIAL) D FEBRUARY 1, 2016 CONTENTS PDF PAGE CSA PAGE PERENNIAL BOM OPTIONS: WIFI FRONT-END POWER D10_JP: D10_ROW: D101_WIFI: REFERENCE DESIGNATOR(S) QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL **BOM OPTION** PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION QTY DESCRIPTION CRITICAL BOM OPTION CAP, CER, 0.3PF, +/-0.05, 01005 CAP, CER, 0.3PF, +/-0.05, 01005 CAP, CER, 0.3PF, +/-0.05,01005 131S0648 131S0648 131S0648 C7705_RF CRITICAL D10 JP C7705_RF CRITICAL D10_ROW C7705_RF CRITICAL D101 CLOCKS D101 152S00029 IND,1.1NH,UH-Q,01005 R7703_RF CRITICAL D10_JP 152S00029 IND,1.1NH,UH-Q,01005 R7703_RF CRITICAL D10_ROW 152800029 IND,1.1NH,UH-Q,01005 R7703_RF CRITICAL PMUGPIO_TO_WLAN_CLK32K 131S0893 131S0893 131S0893 CAP, CER, 0.2PF, +/-0.05, 01005 C7706_RF D10_JP CAP, CER, 0.2PF, +/-0.05, 01005 C7706_RF CRITICAL D10_ROW CAP,CER,0.2PF,+/-0.05,01005 C7706_RF CRITICAL D101 CRITICAL 117S0161 RES,MF,0 OHM,1/32W,01005 R7711_RF CRITICAL D10_JP 117S0161 RES,MF,0 OHM,1/32W,01005 R7711_RF CRITICAL D10_ROW 117S0161 RES,MF,0 OHM,1/32W,01005 R7711_RF CRITICAL CONTROL 117S0161 RES,MF,0 OHM,1/32W,01005 CRITICAL D10_JP 117S0161 TRUE RES,MF,0 OHM,1/32W,01005 CRITICAL D10_ROW 117S0161 RES,MF,0 OHM,1/32W,01005 R7702_RF CRITICAL R7702_RF R7702_RF 152S1988 TRUE | IND, 2.4NH, UH-Q, 01005 R7704_RF 152S1980 D10_JP D10_ROW 152S1988 CRITICAL D101 IND,1.0NH,UH-Q,01005 R7704_RF CRITICAL R7704_RF CRITICAL IND, 2.4NH, UH-Q, 01005 131S0404 CAP,3.9PF,+/-1.0PF,01005 D10_JP D10_ROW 131S0648 CAP, CER, 0.3PF, +/-0.05PF, 01005 CRITICAL D101 R6711_RF CRITICAL 117S0161 TRUE | RES,MF,0 OHM,1/32W,01005 R6711_RF CRITICAL C7708_RF IN AP TO BT WAKE 152S2061 IND,7.5NH,UH-Q,01005 C6729_RF D10_JP 152S1853 TRUE | IND,9.1NH,UH-Q,01005 C6729_RF D10_ROW 118S0724 R6711_RF CRITICAL D101 CRITICAL CRITICAL RES,MF, 0 OHM,1/20W, 0201 WLAN PCIE 117S0161 RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D10_JP 117S0161 RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D10_ROW 152S2054 IND, 9.1NH, UH-Q, 0201 C6729_RF CRITICAL 152S2043 IND,6.2NH,UH-Q,01005 D10_JP 152S2043 CRITICAL D10_ROW 117S0161 RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D101 C7702_RF CRITICAL IND,6.2NH,UH-Q,01005 C7702_RF IND, 0.8NH, UH-Q, 01005 152S1998 CRITICAL D10_JP 152S1998 CRITICAL D10_ROW 152S2043 C7702_RF CRITICAL D101 L7700_RF IND, 0.8NH, UH-Q, 01005 L7700_RF IND,6.2NH,UH-Q,01005 152S2043 IND,6.2NH,UH-Q,01005 L7701_RF CRITICAL D10_JP 152S2043 IND,6.2NH,UH-Q,01005 L7701_RF CRITICAL D10_ROW 152S1998 IND, 0.8NH, UH-Q, 01005 L7700_RF CRITICAL D101 152S1853 IND,9.1NH,UH-Q,01005 L7702_RF CRITICAL D10_JP 152S1853 IND,9.1NH,UH-Q,01005 L7702_RF CRITICAL D10_ROW 152S2043 IND,6.2NH,UH-Q,01005 L7701_RF CRITICAL D101 131S0401 131S0401 152S1853 CAP,3.6PF,+/-0.1PF,01005 C7701_RF CRITICAL D10_JP CAP, 3.6PF, +/-0.1PF, 01005 C7701_RF CRITICAL D10_ROW IND, 9.1NH, UH-Q, 01005 L7702_RF CRITICAL 152S00038 TRUE IND, 4.0NH, +/-0.1NH, UH-Q, 01005 152S00038 IND,4.0NH,+/-0.1NH,UH-Q,01005 D10_ROW 131S0401 CRITICAL D101 L7703_RF CRITICAL D10_JP L7703_RF CRITICAL CAP,3.6PF,+/-0.1PF,01005 C7701_RF 117S0161 RES,MF,0 OHM,1/32W,01005 R7701_RF CRITICAL D10_JP 117S0161 RES,MF,0 OHM,1/32W,01005 R7701_RF CRITICAL D10_ROW 152S00038 IND, 4.0NH, +/-0.1NH, UH-Q, 01005 L7703_RF CRITICAL D101 WLAN UART NOSTUFF: C7729_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF, C7708_RF NOSTUFF: C7729_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF, C7708_RF RES,MF,0 OHM,1/32W,01005 R7701_RF CRITICAL D101 117S0161 C7700_RF, C7703_RF,C7704_RF C7700_RF, C7703_RF,C7704_RF NOSTUFF: C7729_RF,C7711_RF,C7709_RF,C7710_RF, C7707_RF 2 UART_AP_TO_WLAN_TXD C7700_RF, C7703_RF,C7704_RF 2 UART AP TO WLAN RTS L BLUETOOTH UART D11_JP: D11_ROW: D111_WIFI: QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL **BOM OPTION** PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) TROTEY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL **BOM OPTION** PART# CRITICAL **BOM OPTION** 2 UART_AP_TO_BT_RTS_L 152S00273 IND, 0.6NH, UH-Q, 01005 R7703_RF CRITICAL D111 2 OUT UART BT TO AP CTS L IND, 0.6NH, UH-Q, 01005 152S00273 IND, 0.6NH, UH-Q, 01005 R7703_RF CRITICAL D11_JP 152S0027 R7703_RF CRITICAL D11_ROW 152S1976 IND,0.7NH,UH-Q,01005 R7711_RF CRITICAL D111 152S1976 TRUE IND,0.7NH,UH-Q,01005 R7711_RF CRITICAL D11_JP 152S1976 IND,0.7NH,UH-Q,01005 R7711_RF CRITICAL D11_ROW 131S0400 CAP, CER, 3.5PF+/-0.1,01005 R7702_RF CRITICAL 131S0400 TRUE CAP,CER,3.5PF+/-0.1,01005 CAP,CER,3.5PF+/-0.1,01005 R7702_RF CRITICAL D11_JP 131S0400 R7702_RF CRITICAL D11_ROW 2 IN AOP TO WLAN CONTEXT A IND, FILM, 2.2NH, UH-Q, 01005 152S1986 R7704_RF CRITICAL D111 AOP_TO_WLAN_CONTEXT_B IND, FILM, 2.2NH, UH-Q, 01005 D11_JP 152S1986 CRITICAL D11_ROW 152S1986 R7704_RF CRITICAL IND, FILM, 2.2NH, UH-Q, 01005 R7704_RF 118S0724 CRITICAL D111 RES,MF, 0 OHM,1/20W, 0201 R6711_RF 118S0724 D11_ROW 131S0648 CAP, CER, 0.3PF, +/-0.05PF, 01005 C7708_RF CRITICAL D11_JP RES,MF,0 OHM,1/20W,0201 R6711_RF CRITICAL AUDIO IND,9.1NH,UH-Q,0201 152S2054 C6729_RF CRITICAL D111 131S0593 CAP, 3.9PF, +/-1.0PF, 0201, HI-Q R6711_RF CRITICAL D11_JP 152S2054 IND,9.1NH,UH-Q,0201 C6729_RF CRITICAL D11_ROW CAP, CER, 0.2PF, +/-0.05PF, 01005 D111 131S0893 C7705_RF CRITICAL 152S2055 TRUE IND,7.5NH,UH-Q,0201 C6729_RF CRITICAL D11_JP 131S0893 CAP, CER, 0.2PF, +/-0.05PF, 01005 CRITICAL D11_ROW C7705_RF CRITICAL 131S0893 TRUE CAP, CER, 0.2PF, +/-0.05PF, 01005 C7729_RF 131S0893 CRITICAL D11_JP 131S0893 TRUE CAP, CER, 0.2PF, +/-0.05PF, 01005 C7729_RF CRITICAL D11_ROW CAP, CER, 0.2PF, +/-0.05PF, 01005 C7705_RF C7700_RF CRITICAL D111 131S0648 CAP, CER, 0.3PF, +/-0.05PF, 01005 131S0893 CRITICAL D11_JP CRITICAL D11_ROW CAP, CER, 0.2PF, +/-0.05PF, 01005 C7729_RF 131S0648 TRUE CAP, CER, 0.3PF, +/-0.05PF, 01005 C7700_RF COEX 152S1980 TRUE IND,1.0NH,+/-0.1NH,UH-Q,01005 R7700_RF CRITICAL D111 UART_BB_TO_WLAN_COEX 131S0648 C7700_RF CRITICAL D11_JP 152S1980 TRUE IND,1.0NH,+/-0.1NH,UH-Q,01005 R7700_RF CRITICAL D11_ROW CAP, CER, 0.3PF, +/-0.05PF, 01005 2 OUT UART_WLAN_TO_BB_COEX D111 131S0648 TRUE CAP, CER, 0.3PF, +/-0.05PF, 01005 C7702_RF CRITICAL D11_JP 152S1980 IND, 1.0NH, +/-0.1NH, UH-Q, 01005 R7700_RF CRITICAL 131S0648 CAP, CER, 0.3PF, +/-0.05PF, 01005 C7702_RF CRITICAL D11_ROW CRITICAL R7701_RF D111 131S0405 CAP, CER, 4.0PF, +/-0.1PF, 01005 131S0648 CAP, CER, 0.3PF, +/-0.05PF, 01005 C7702_RF CRITICAL D11_JP 131S0405 CAP, CER, 4.0PF, +/-0.1PF, 01005 R7701_RF CRITICAL D11_ROW 3 TO SO UAT WLAN 5G WEST 152S00273 IND, 0.6NH, +/-1NH, UH-Q, 01005L7700_RF CRITICAL 131S0405 CAP, CER, 4.0PF, +/-0.1PF, 01005 R7701_RF CRITICAL D11_JP 152S00273 L7700_RF CRITICAL D11_ROW IND, 0.6NH, +/-1NH, UH-Q, 010053 TO 50 UAT WLAN 2G EAST IND,9.1NH,UH-Q,01005 CRITICAL D111 152S1853 L7701_RF 3 TO 50_UAT_WLAN_5G_EAST 152S00273 IND, 0.6NH, +/-1NH, UH-Q, 01005L7700_RF CRITICAL D11_JP 152S1853 IND,9.1NH,UH-Q,01005 L7701_RF CRITICAL D11_ROW 152S1853 IND,9.1NH,UH-Q,01005 L7702_RF CRITICAL D111 152S1853 IND,9.1NH,UH-Q,01005 IND,9.1NH,UH-Q,01005 L7701_RF CRITICAL D11_JP 152S1853 L7702_RF CRITICAL D11_ROW 117S0161 D111 RES,MF,0 OHM,1/32W,01005 C7701_RF CRITICAL 3 O UAT2 M D11_JP 117S0161 152S1853 IND,9.1NH,UH-Q,01005 L7702_RF CRITICAL RES,MF,0 OHM,1/32W,01005 C7701_RF CRITICAL NOSTUFF: C7706_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF, C7708_RF NOSTUFF: C7706_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF, C7708_RF 117S0161 RES,MF,0 OHM,1/32W,01005 CRITICAL D11_JP C7701_RF C7703_RF,C7704_RF,L7703_RF C7703_RF,C7704_RF,L7703_RF NOSTUFF: C7706_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF WIFI_MLB SCHEMATIC C7703_RF,C7704_RF,L7703_RF SCH, MLB, D11 051-00482 Apple Inc. 8.0.0 NOTICE OF PROPRIETARY PROPERTY: PROPRIETARY PROPERTY OF APPLE INC.
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ICEFALL, SIM, DEBUG_CONN CK APPD 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. REV DESCRIPTION OF REVISION ECN 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. DATI 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. 0006532879 ENGINEERING RELEASED 2016-07-06 MAV16 RADIO_MLB AP CONNECTIONS POWER LAST_MODIFICATION=Wed Jun 29 12:06:01 2016 20 16 4 3 IN PP VDD MAIN DATE SYNC PAGE CSA CONTENTS PP_VDD_BOOST <SYNC_DATE1> page1 <SYNC_MASTER1> MAKE_BASE=TRUE **AMUX** BOM_OMIT_TABLE 63 <SYNC_MASTER2> DEBUG <SYNC_DATE3: 64 PMU: CONTROL AND CLOCKS <SYNC_MASTER3> 20 6 N SWD_AP_TO_MANY_SWCLK <SYNC_DATE4> 65 20 6 SWD AOP BI BB SWDIO <SYNC_MASTER4> PMU: SWITCHERS AND LDOS 20 17 3 IN PMU_TO_BB_USB_VBUS_DETECT <SYNC_DATE5> 66 BASEBAND: POWER2 <SYNC_MASTER5> 20 17 6 O USB_BB_DATA_P BB CONTROL 20 17 6 10 90 USB BB DATA N 67 BASEBAND: CONTROL BASEBAND GPIOS 68 **ANTENNA** 69 TRANSCEIVER0/1: POWER 15 O UAT WLAN 2G WEST PLEXE 14 O SO UAT1 WEST 70 TRANSCEIVER0/1: TX PORTS 71 TRANSCEIVER0/1: PRX PORTS 12 O SO UAT MB HB SOUTH 14 O UUAT LB MLB NORTH 72 RECEIVE MATCHING 3 IN LCM_TO_MANY_BSYNC 73 LOWER ANTENNA & COUPLERS 7 IN AP TO BB MESA ON 74 DIVERSITY RECEIVE ASM'S 75 DIVERSITY RECEIVE LNA'S 17 6 IN 90 PCIE AP TO BB REFCLK P 76 17 6 IN 90 PCIE AP TO BB REFCLK N UPPER ANTENNA FEEDS 77 PMU: ET MODULATOR 90 PCIE AP TO BB TXD N TEST POINTS & BOOT CONFIG 90 PCIE BB TO AP RXD P 78 79 TDD TRANSMIT PCIE_BB_BI_AP_CLKREQ 80 FDD TRANSMIT 17 7 OUT BB TO PMU PCIE HOST WAKE I 7 UART AOP TO BB TXD 17 7 OUT UART BB TO AOP RXD IN I2S_BB_TO_AP_BCLK 7 IN I2S AP TO BB DOUT 7 OUT I2S BB TO AP DIN WLAN <SYNC_DATE27> 20 17 7 IN UART BB TO WLAN COEX 20 17 7 OUT UART WLAN TO BB COEX <SYNC_DATE30> NFC_SWP_MUX 20 17 OUT SE2_READY AP_TO_ICEFALL_FW_DWLD_REQ 20 17 IN SE2_PWR_REQ SCH: 951-00964 20 17 IN ICEFALL_LDO_ENABLE BOM: 939-00826 TUNER MAKE_BASE=TRUE OUT BB_TO_UAT_SCLK - BB_TO_UAT_DATA MAKE_BASE=TRUE 15 O UAT1 TUNER OUT BUFFER_GP01 DOCK ALTERNATES OUT BUFFER GPO2 MAKE_BASE=TRUE OUT BB TO LAT ANT SCLK REF DES COMMENTS: MAKE_BASE=TRUE 197S0593 ALTERNATE Y5501_RF 19P2 MHZ XTAL 197S0565 197S0598 197S0593 ALTERNATE 19P2 MHZ XTAL ⁷ OUT BB TO LAT GPO1 138S00101 138S00095 ALTERNATE TRANSITION CAP IC EEPROM 335S00013 335S0894 ALTERNATE EPROM_RF SWPMX_RF IC SWITCH SPDT 353S00253 353S00321 ALTERNATE UPPDI_RF ALTERNATE NOLMBRF 7 OUT BB TO LAT GPO3 155S00235 155S00234 page1 ALL:C5616_RF-C5618_RF,C5632_RF-C5634_RF SCH, MLB, D11 051-00482 Apple Inc. 8.0.0 NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSESSOR AGREES TO THE FOLLOWING: 1 OF 72 I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART 62 OF 81 IV ALL RIGHTS RESERVED 6

