PAGE1: Notes, Revision History

PAGE2: Digital_Interfaces

PAGE3: RF_Interface

PAGE4: DDR2

PAGE5: Misc. Interfaces

PAGE6: 1000 BaseT_Ethernet_PHY

PAGE7: 10/100 BaseT_Interfaces

PAGE8: PoE

PAGE9: Power_Supplies

PAGE10: 2.4GHz RF

PAGE11: 5GHz RF

PAGE12: Exalt SYNC

PAGE13: Goldfinger

REVISIONS HISTORY

ISS	DESCRIPTION	DATE	APVD
1.0	INITIAL RELEASE, REVISION 2 PCB	03/13/2013	

BARCODE1
PartNumber
200481

BARCODE2
S/N
200482

MAC1
MAC address
200483

MAC2
MAC address
200483

DOC1
ASSMBLY DWG
102333

DOC2
FAB
208189

DOC3
SCHEMATIC
102334

5GHz
802.11N Wireless
Bridge / Access
Point
207463

2.4GHz
802.11N Wireless
Bridge / Access
Point
207462

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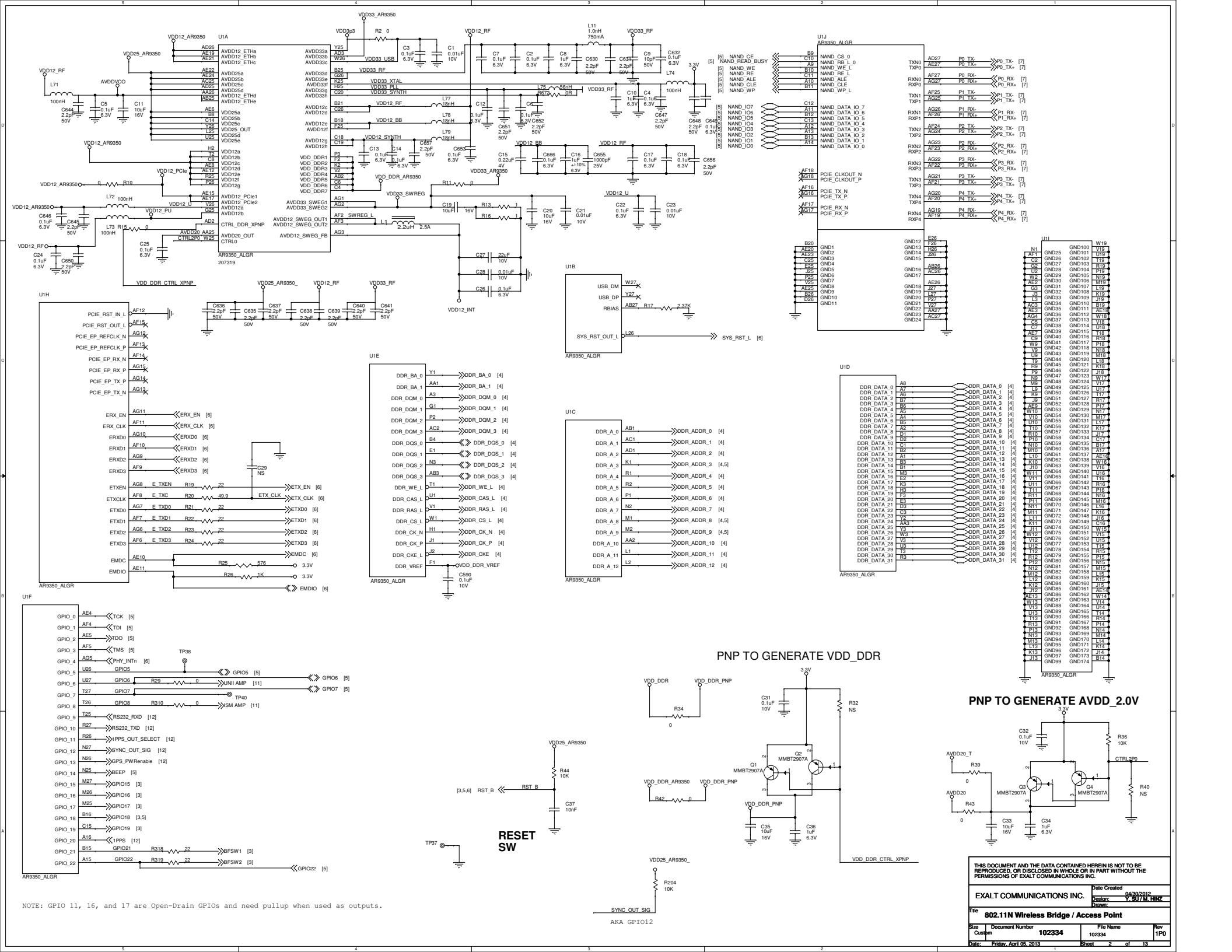
U1A
AR9350_ALGR
207319
U1H
U1E
U1C
U1B
U1D
U1J
U1I
U1F
PNP TO GENERATE VDD_DDR
PNP TO GENERATE AVDD_2.0V
RESET SW
VDD_DDR_CTRL_XPNP
SYNC_OUT_SIG
AKA GPIO12
NOTE: GPIO 11, 16, and 17 are Open-Drain GPIOs and need pullup when used as outputs.
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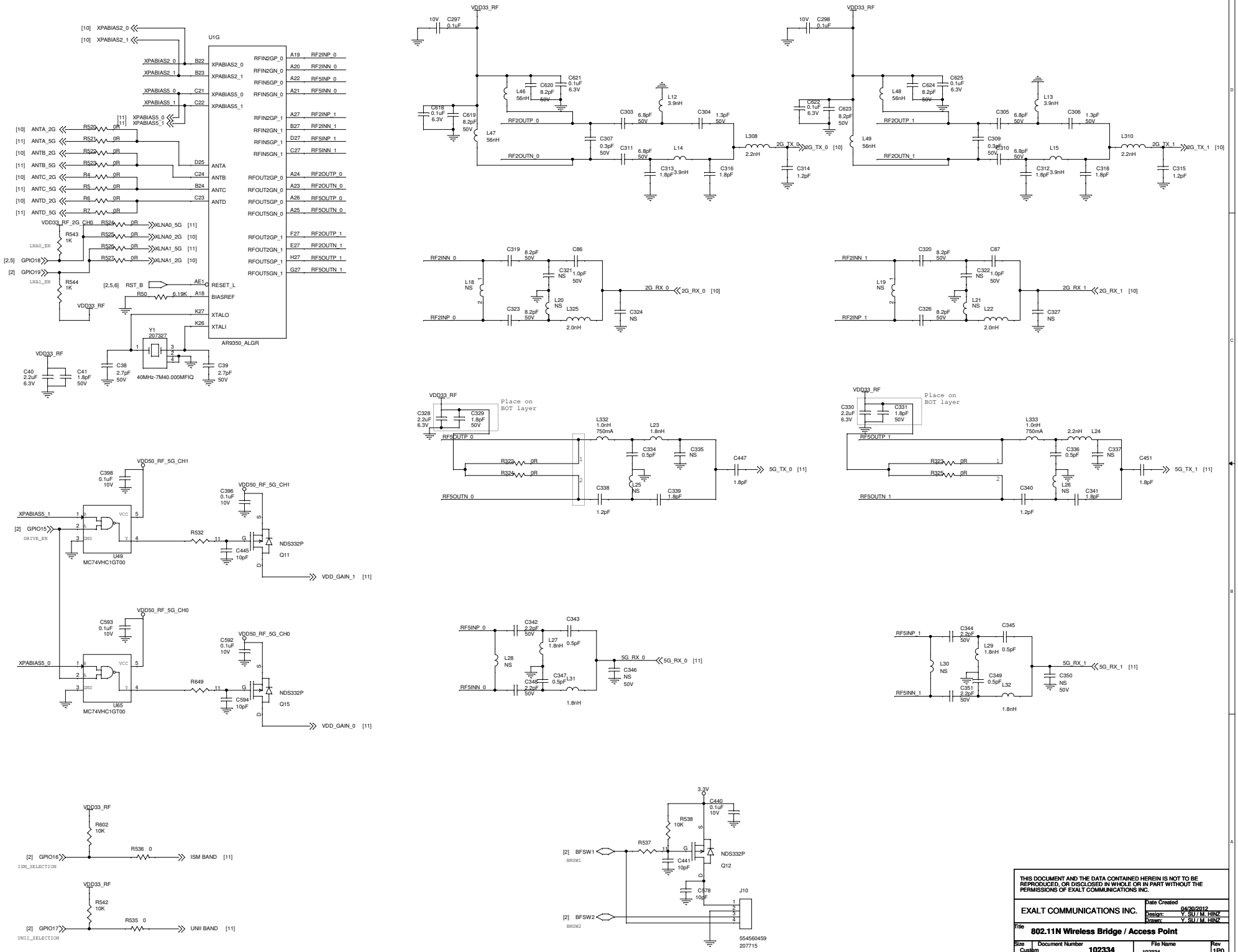

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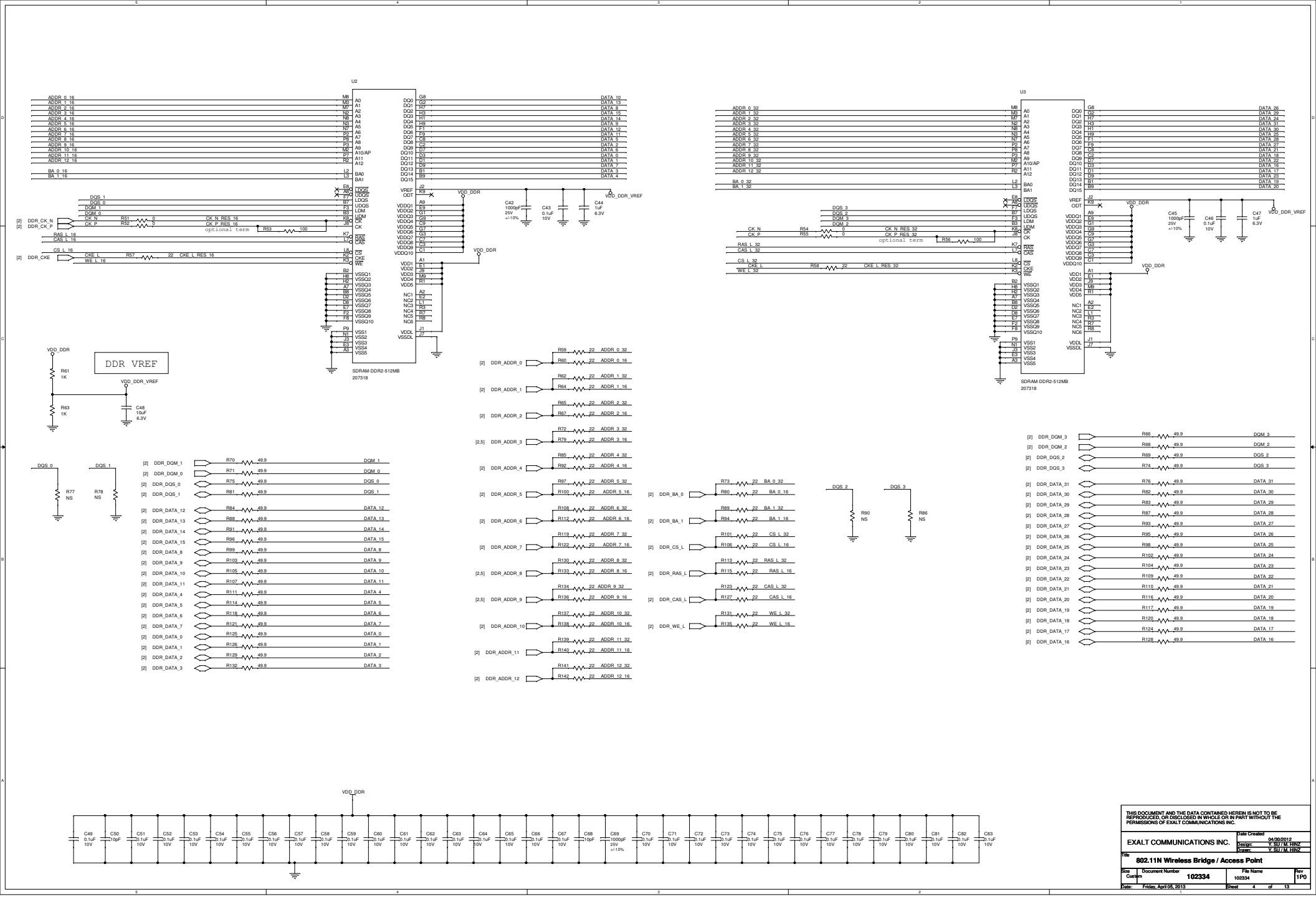
U2
SDRAM-DDR2-512MB
207318
U3
SDRAM-DDR2-512MB
207318
DDR VREF
VDD_DDR
VDD_DDR_VREF
optional term
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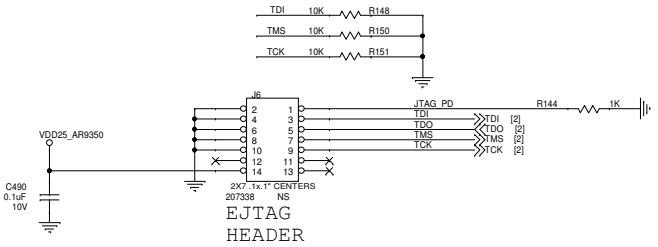
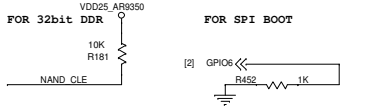
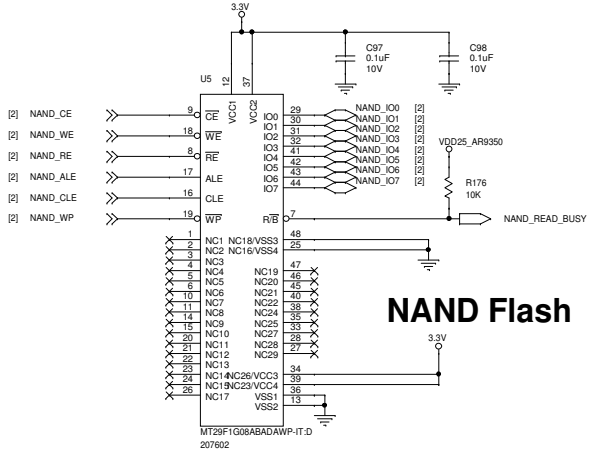
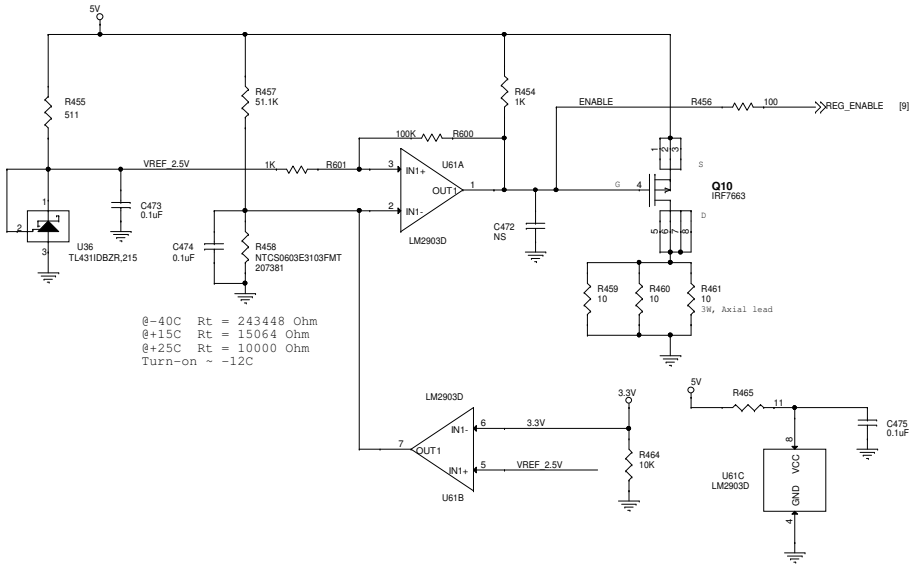
Boot Strap Options

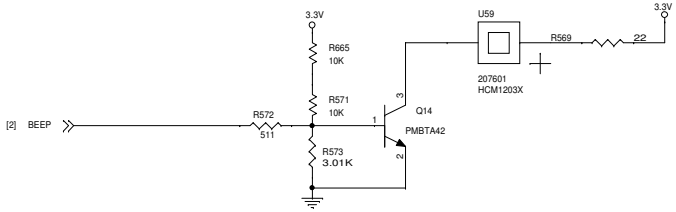


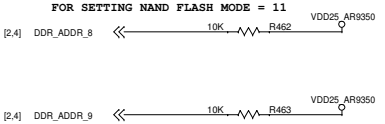




NAND Flash







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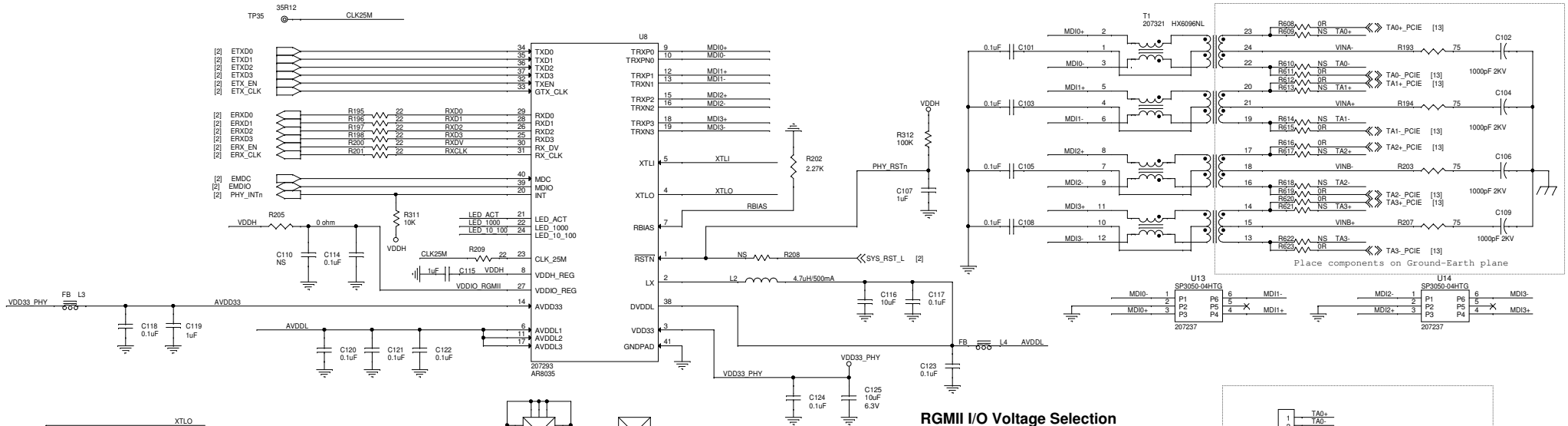
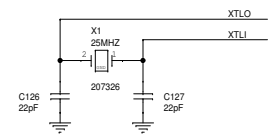
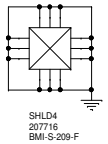
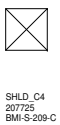








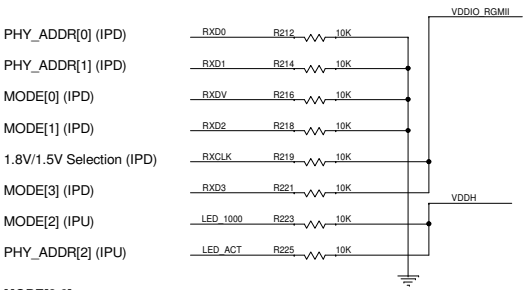
R21:place closed to PHY side

RGMII I/O Voltage Selection

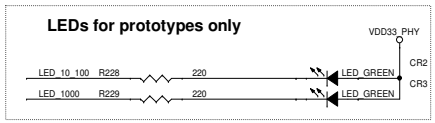
I/O	R21	C53	C28	RXCLK
2.5V	0	0.1u	1u	PU or PD
1.5V	NC	1u	0.1u	PD
1.8V	NC	1u	0.1u	PU

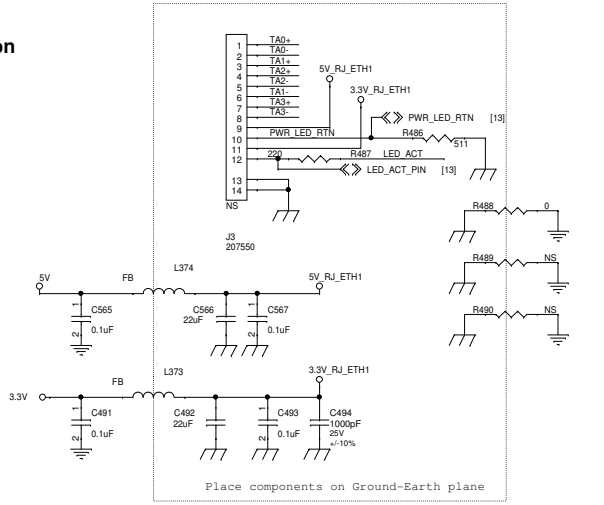
2.5V is illustrated in schematic

Power-on Strapping Pins



MODE[3:0]:
1100: RGMII, PLLOFF, INT (Suggested)
1110: RGMII, PLLON, INT





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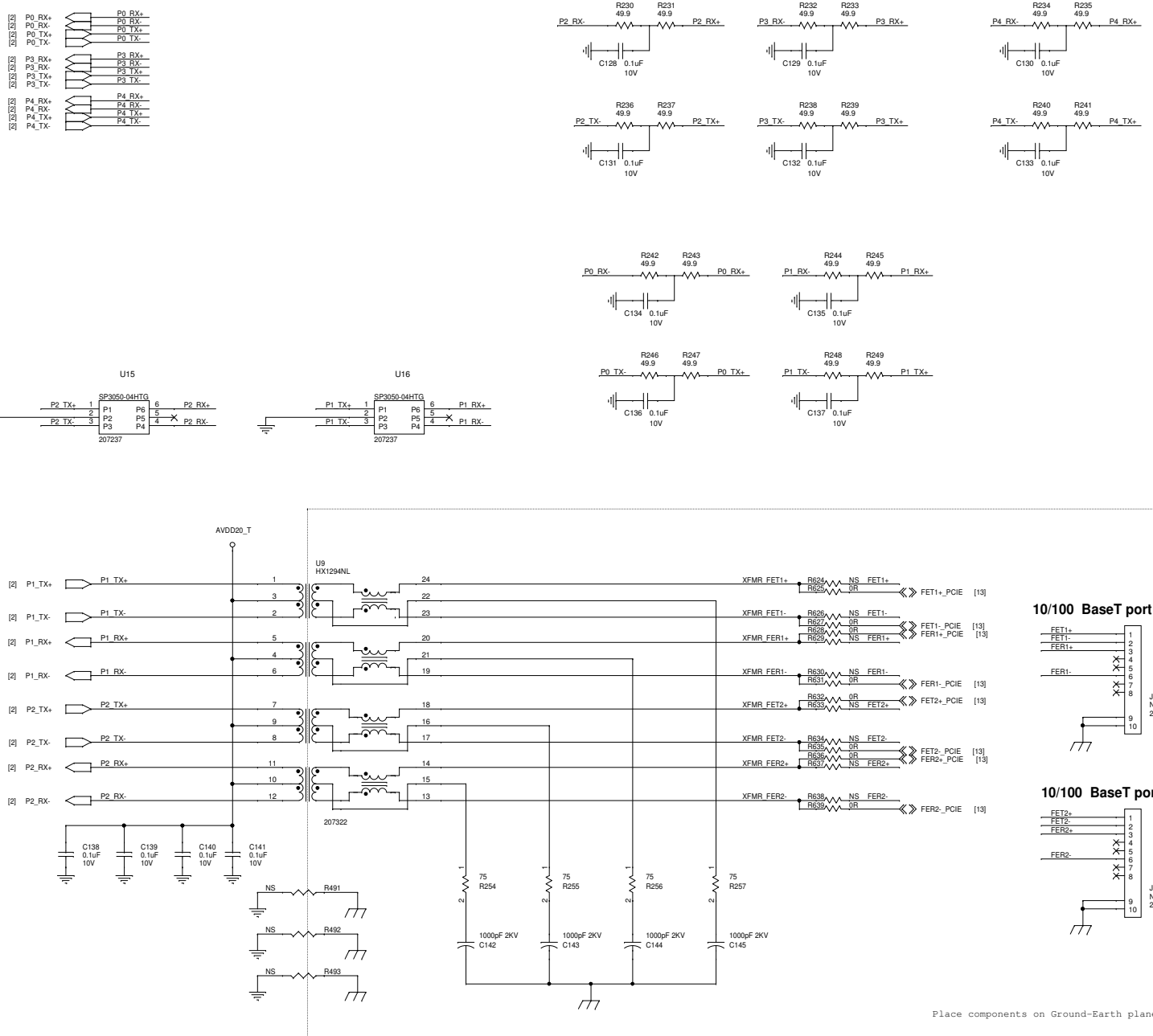

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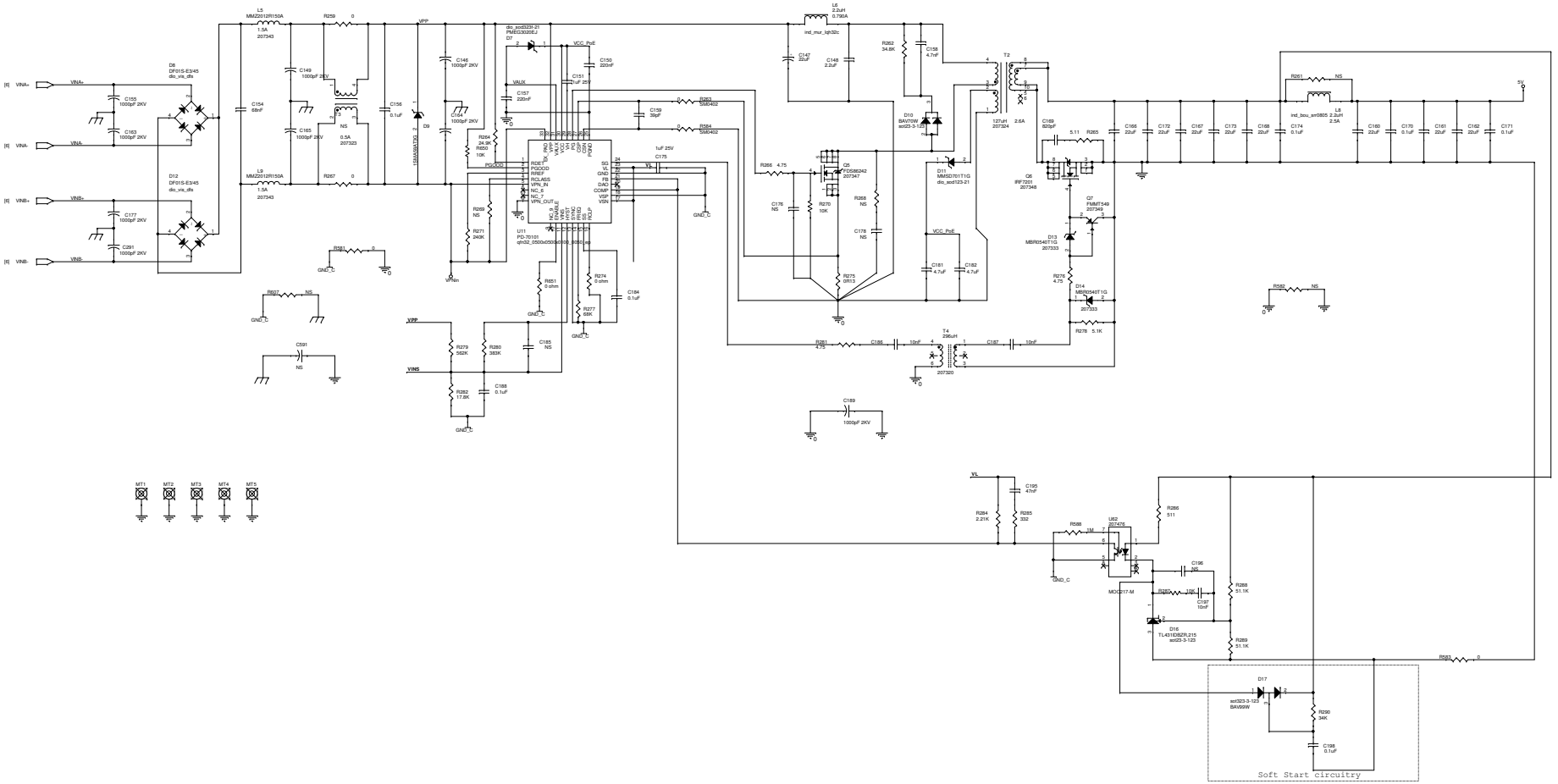

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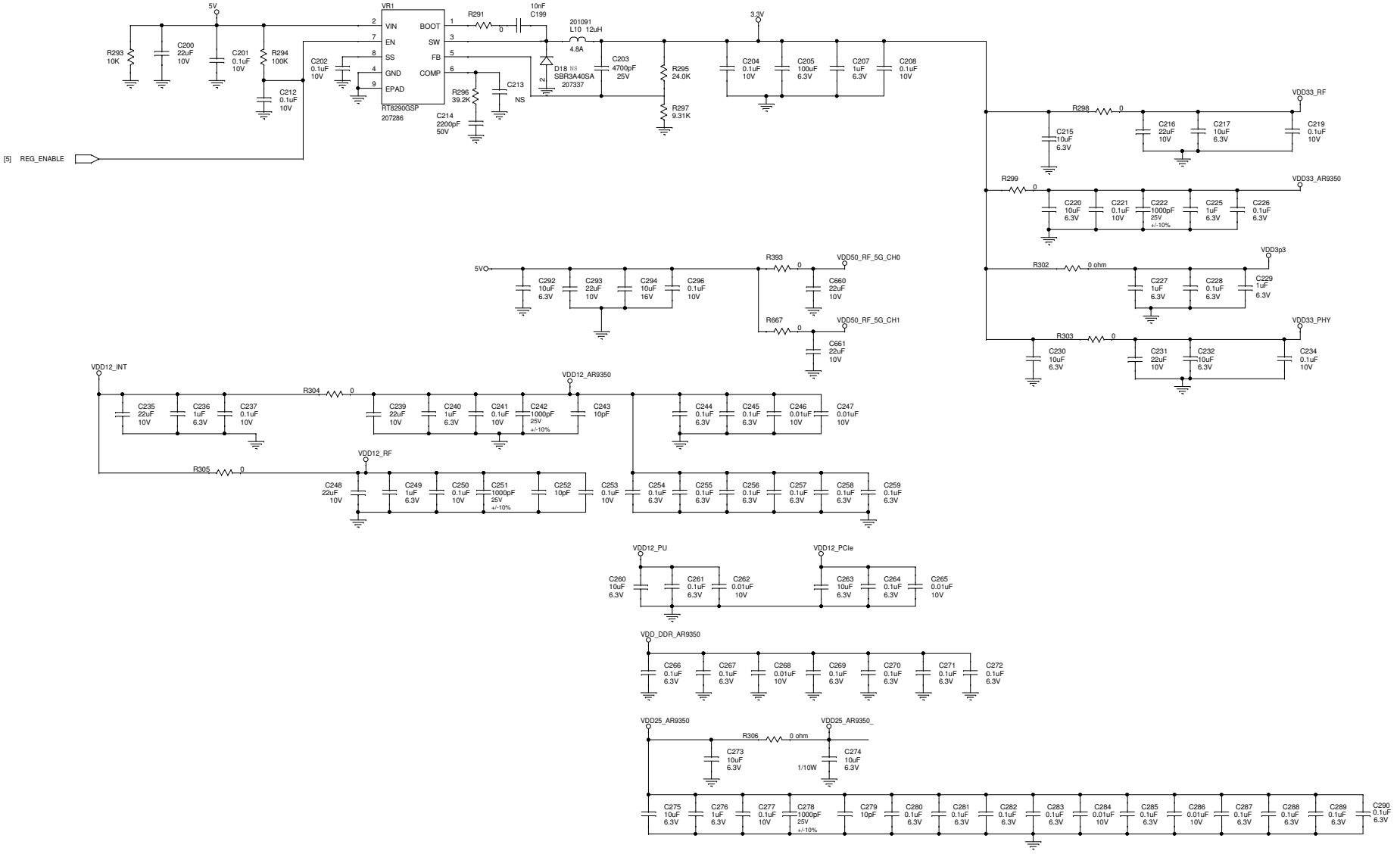
POWER SUPPLY, REGULATORS & DECOUPLING



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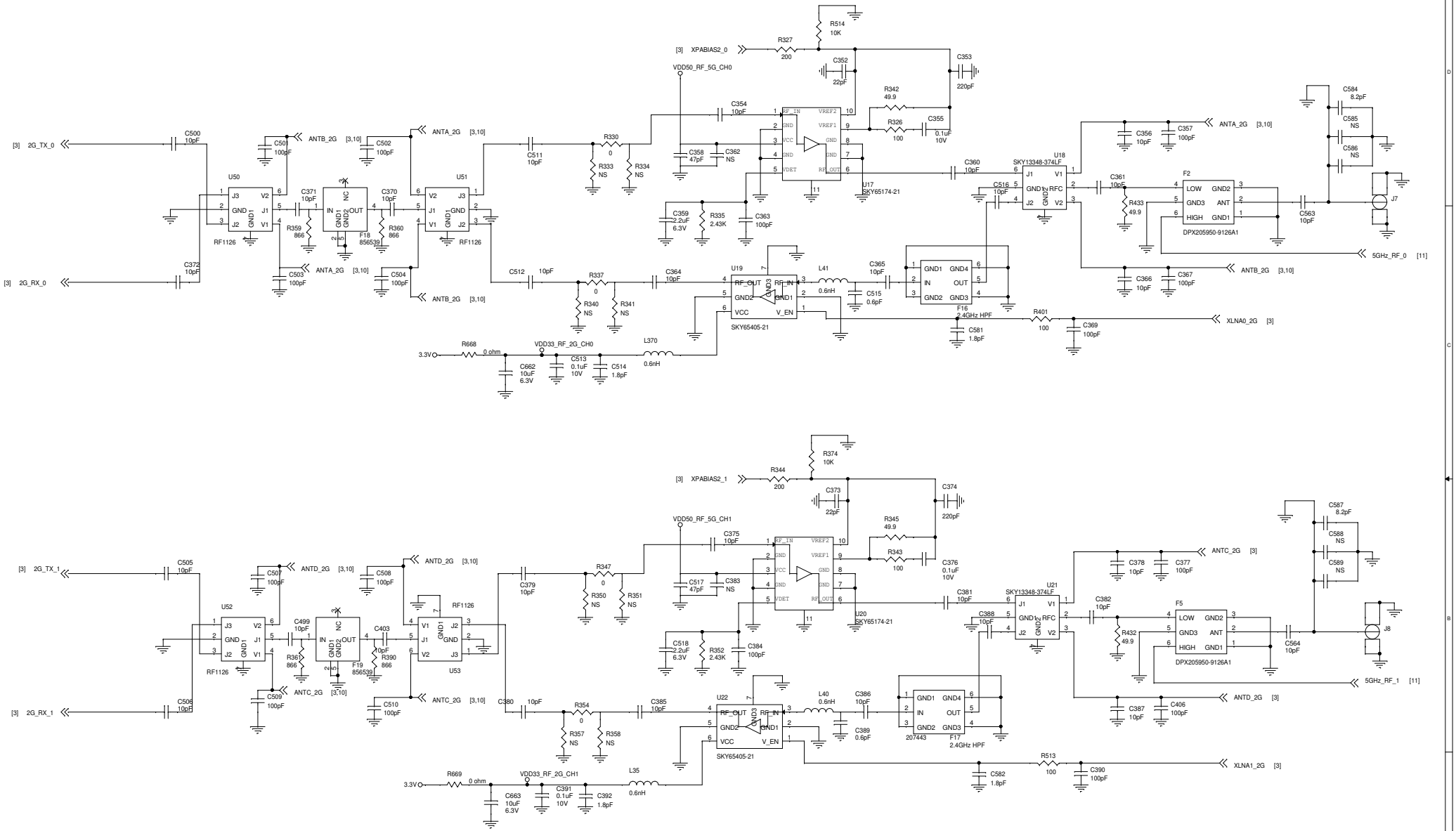

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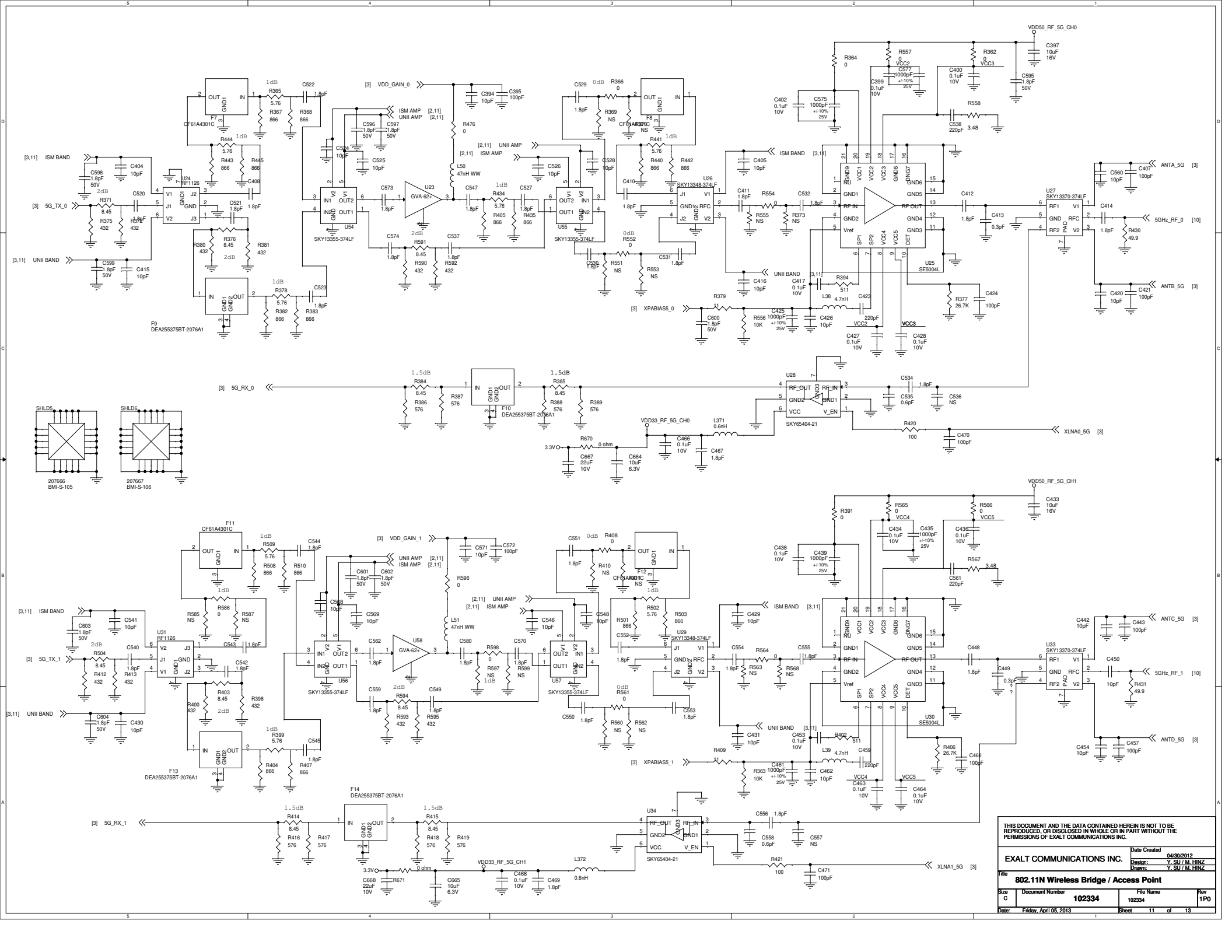
VDD50_RF_5G_CH0
VDD50_RF_5G_CH1
[3,11] ISM BAND
[3,11] UNII BAND
[3] 5G_TX_0
[3] 5G_TX_1
[3] 5G_RX_0
[3] 5G_RX_1
[3] VDD_GAIN_0
[3] VDD_GAIN_1
[3] XPABIAS5_0
[3] XPABIAS5_1
ISM AMP [2,11]
UNII AMP [2,11]
[2,11] UNII AMP
[2,11] ISM AMP
VDD33_RF_5G_CH0
VDD33_RF_5G_CH1
3.3V
VCC2
VCC3
VCC4
VCC5
ANTA_5G [3]
ANTB_5G [3]
ANTC_5G [3]
ANTD_5G [3]
5GHz_RF_0 [10]
5GHz_RF_1 [10]
XLNA0_5G [3]
XLNA1_5G [3]
CF61A4301C
DEA255375BT-2076A1
SKY13355-374LF
SKY13348-374LF
SKY65404-21
RF1126
GVA-62+
SE5004L
SKY13370-374LF
207666 BMI-S-105
207667 BMI-S-106
SHLD5
SHLD6
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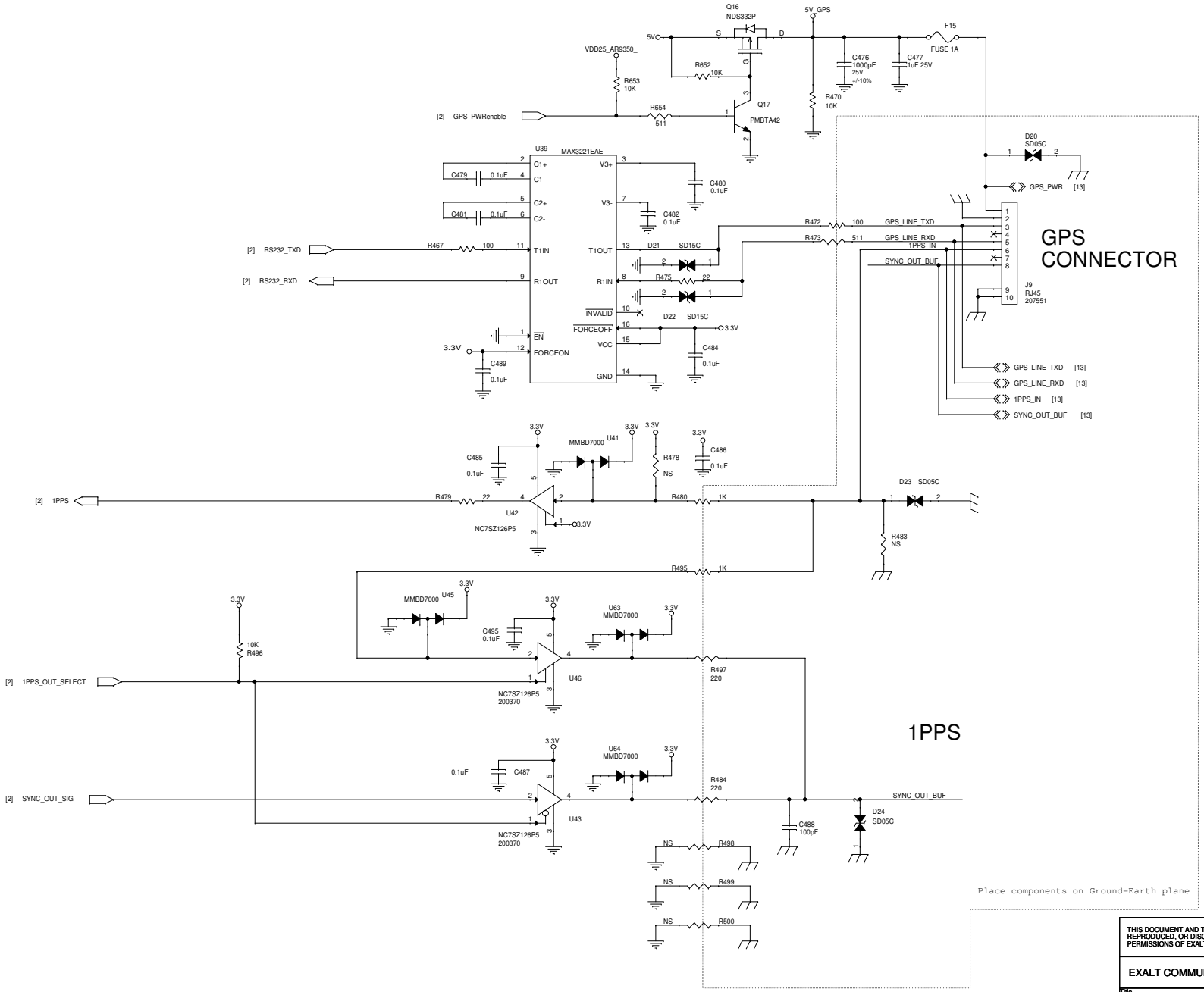

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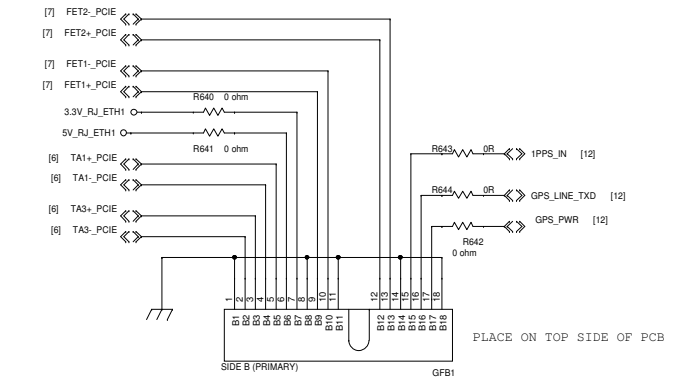

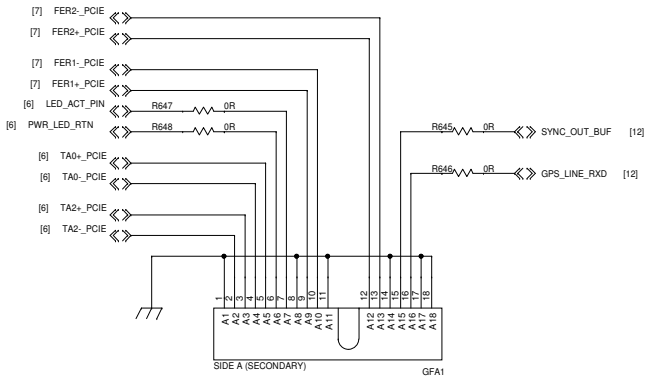

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	APPROVALS	DATE
	DRAWN Michael A. Wez	<>
	CHECKED TBD	<>
<>	APPVD TBD	<>
Date Friday, April 05, 2013	APPVD TBD	<>

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254 E. Hacienda Avenue
Campbell, CA 95008-6617

GOLDFINGER

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