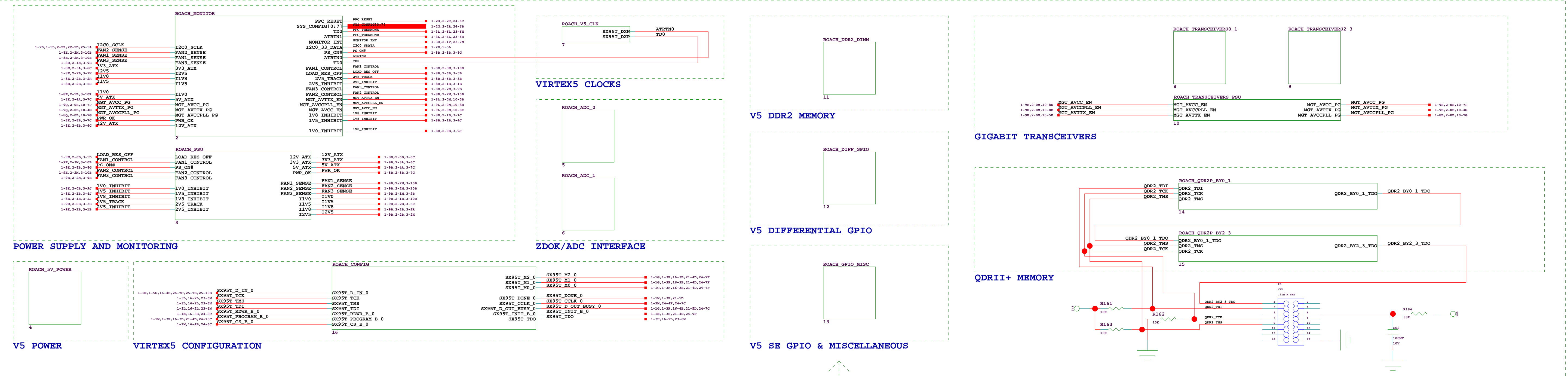
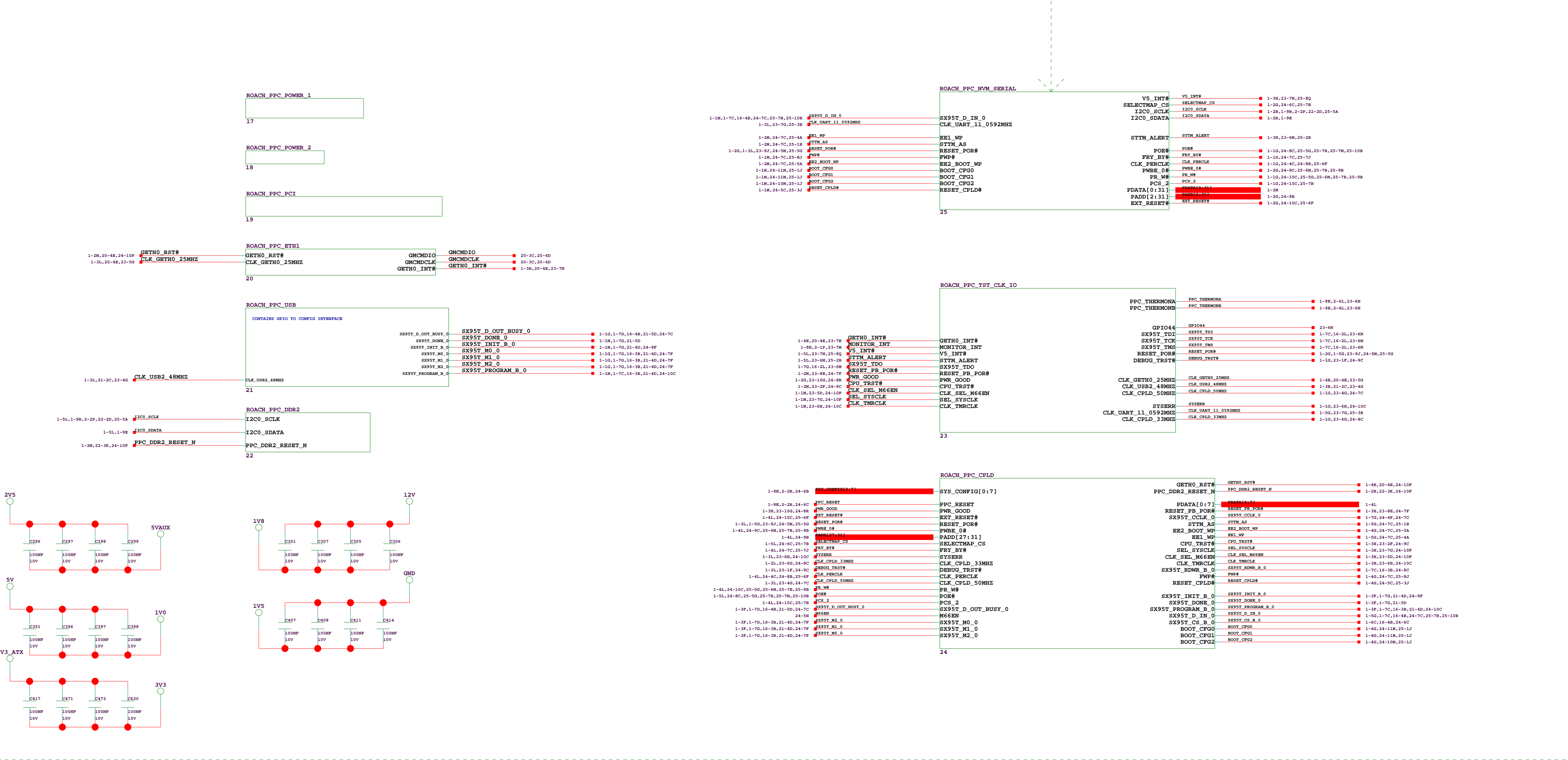


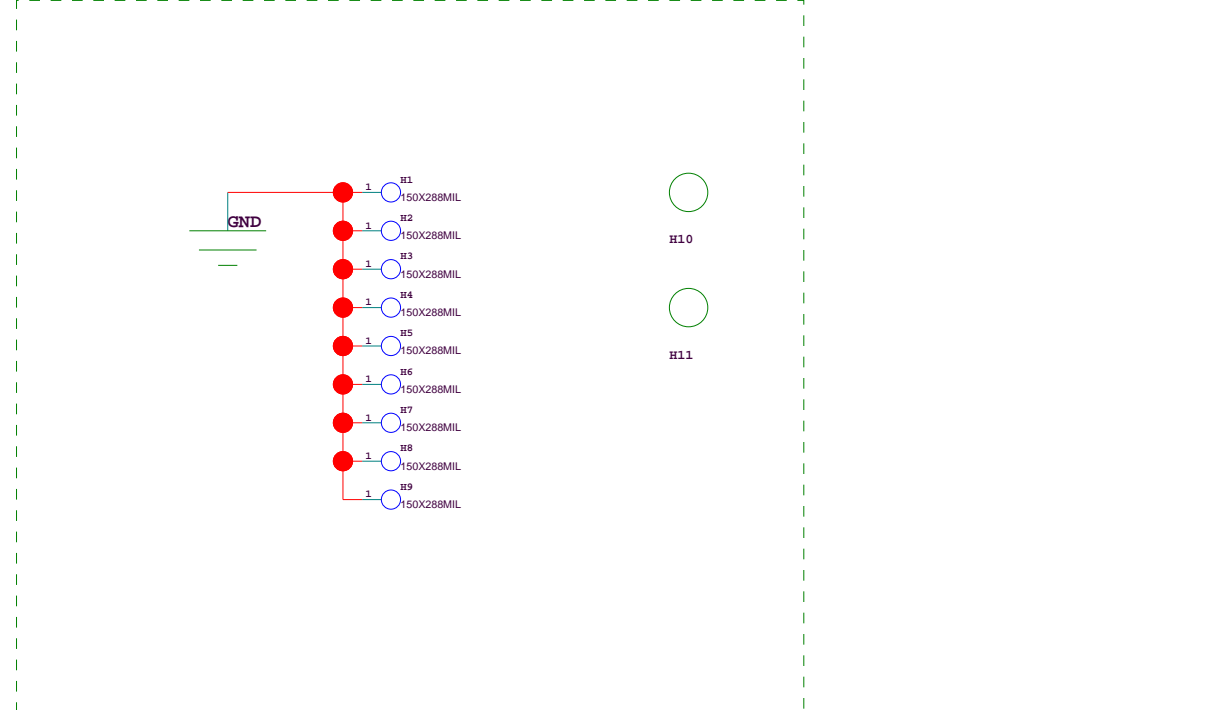
VIRTEX5



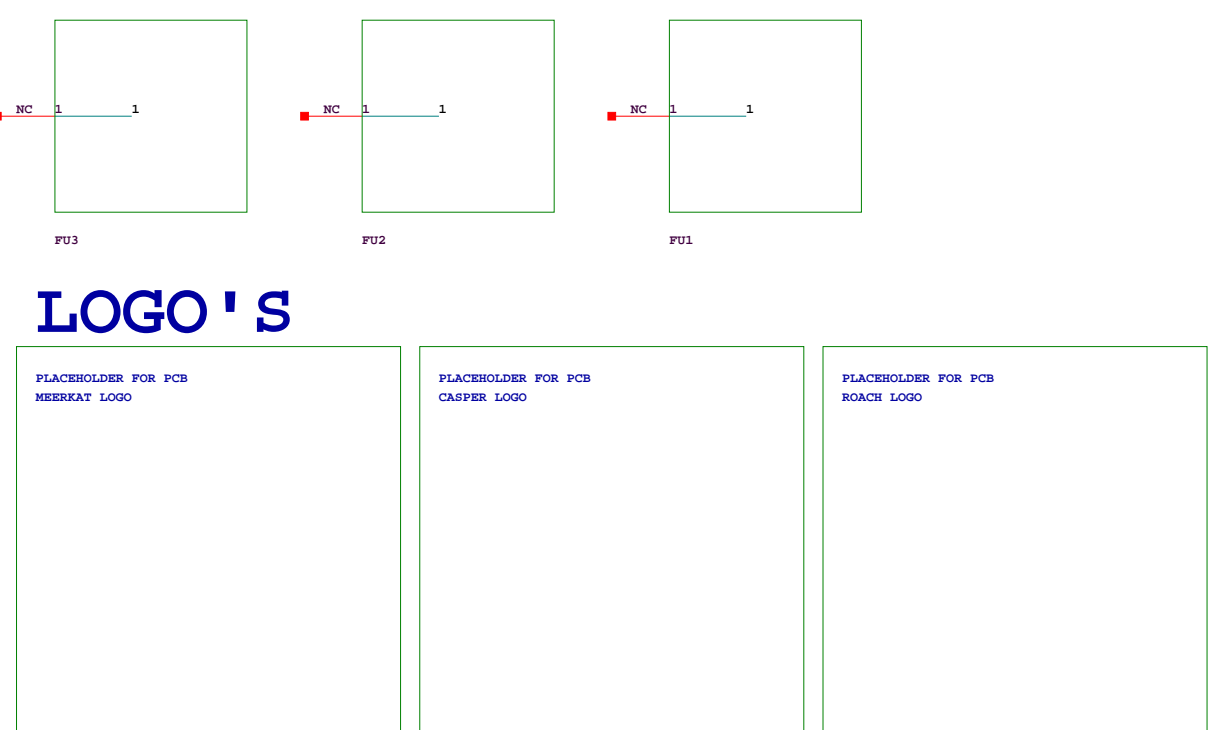
PPC



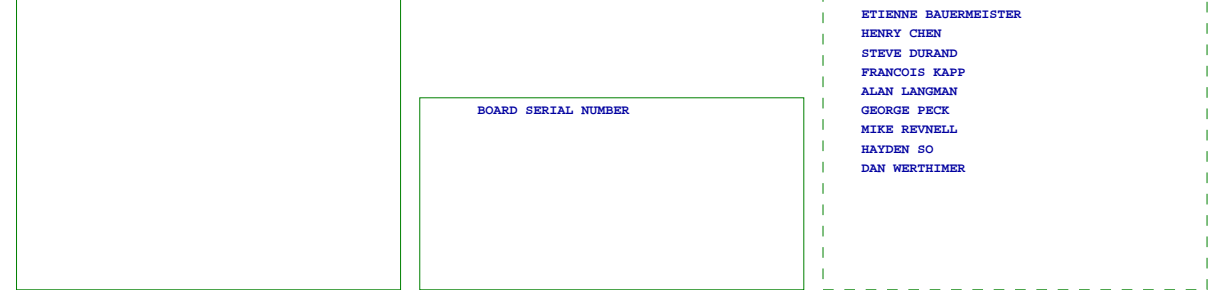
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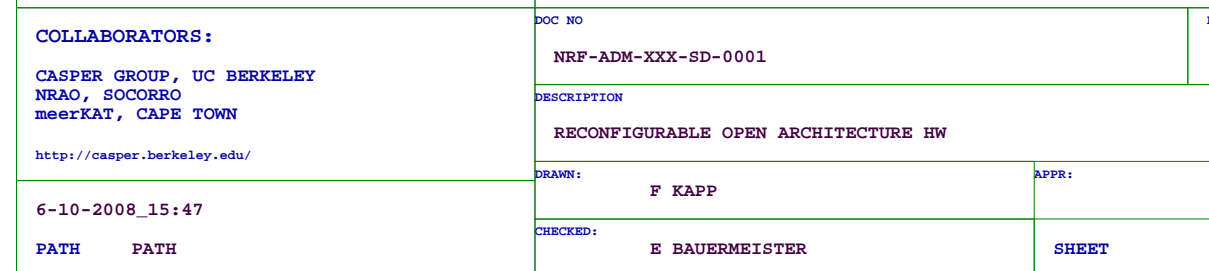
BOARD FIDUCIALS

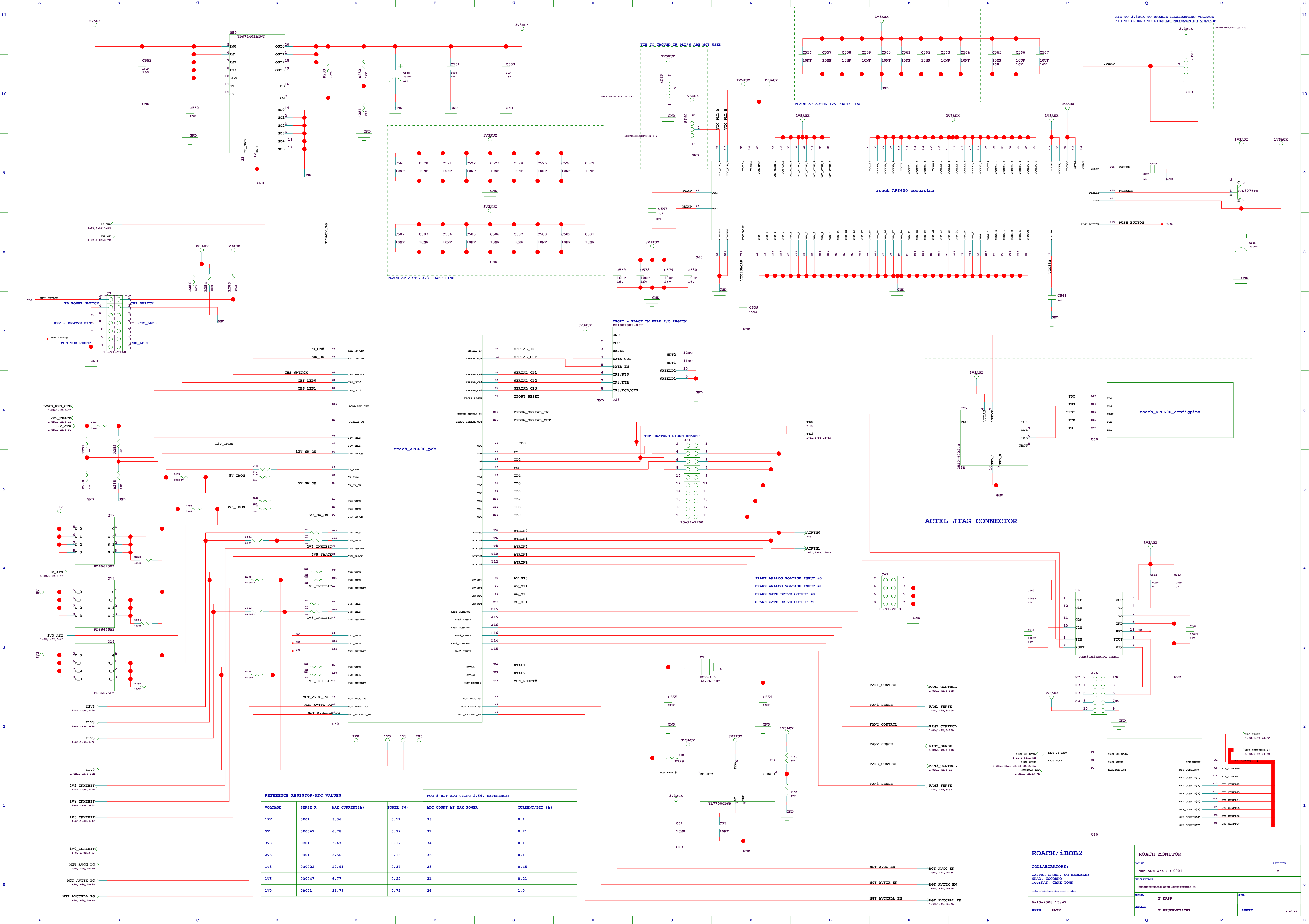


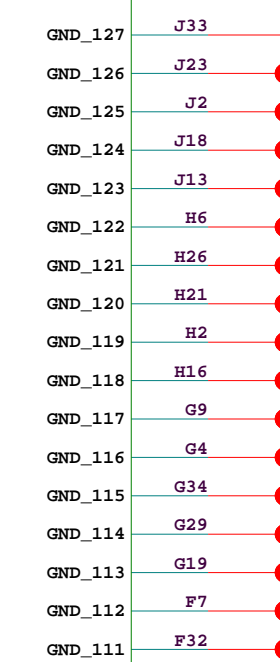
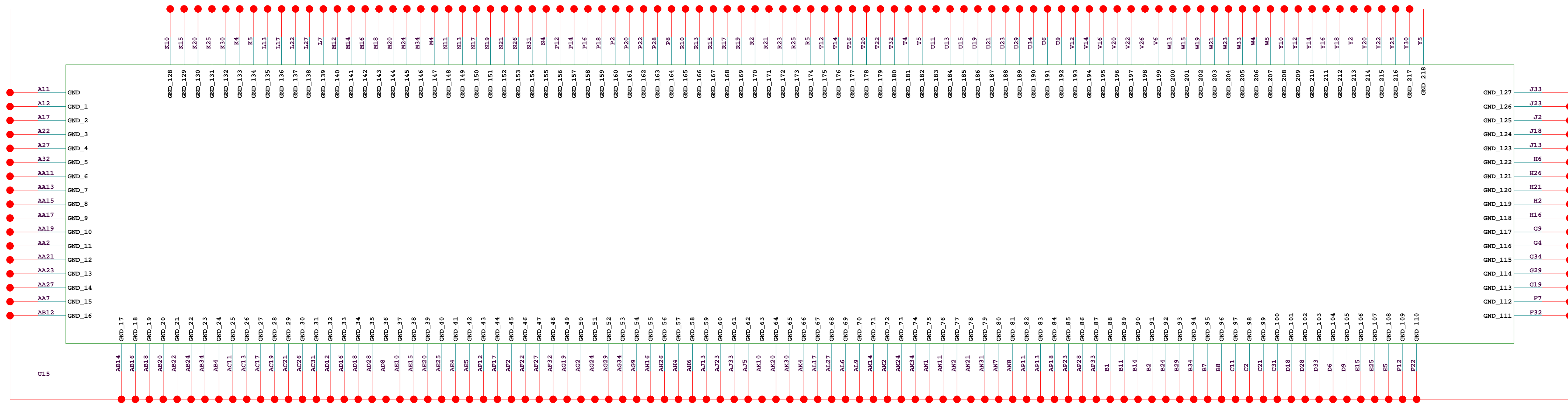
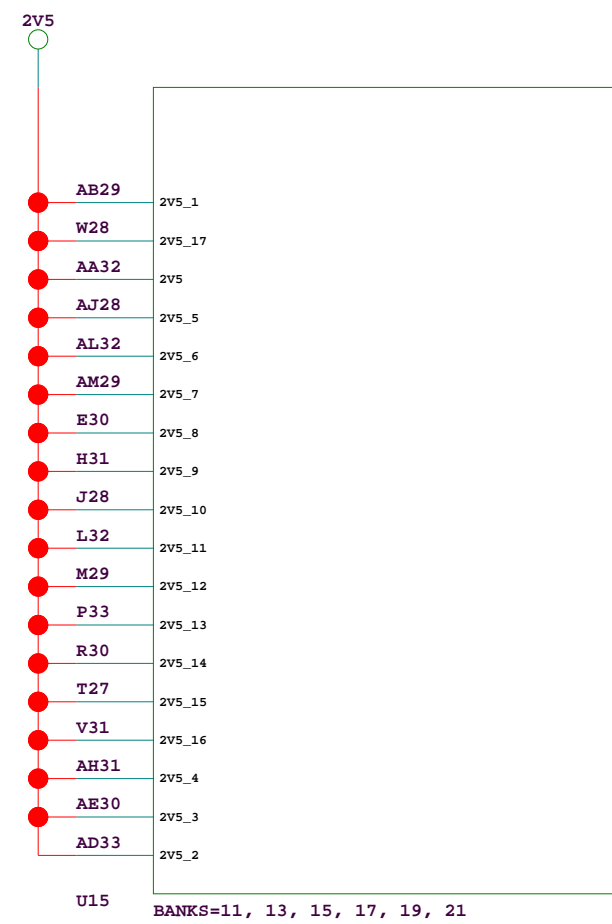
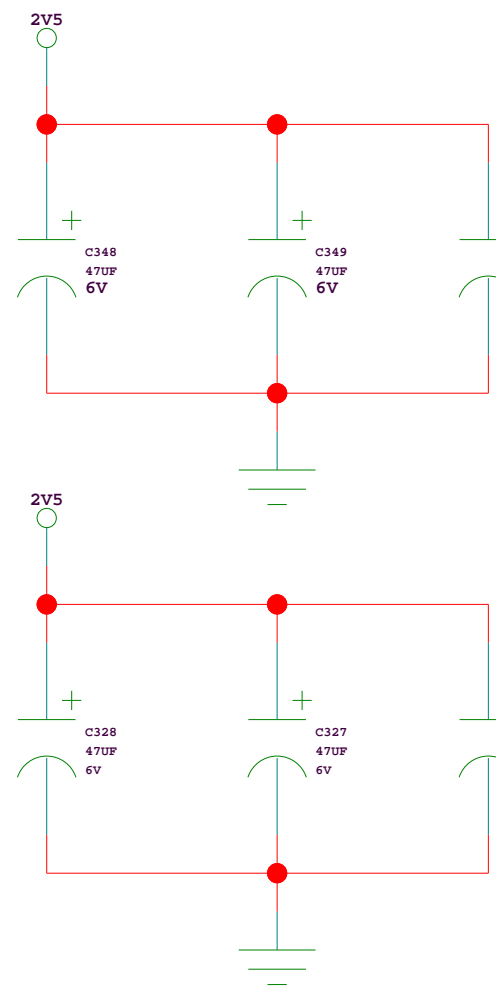
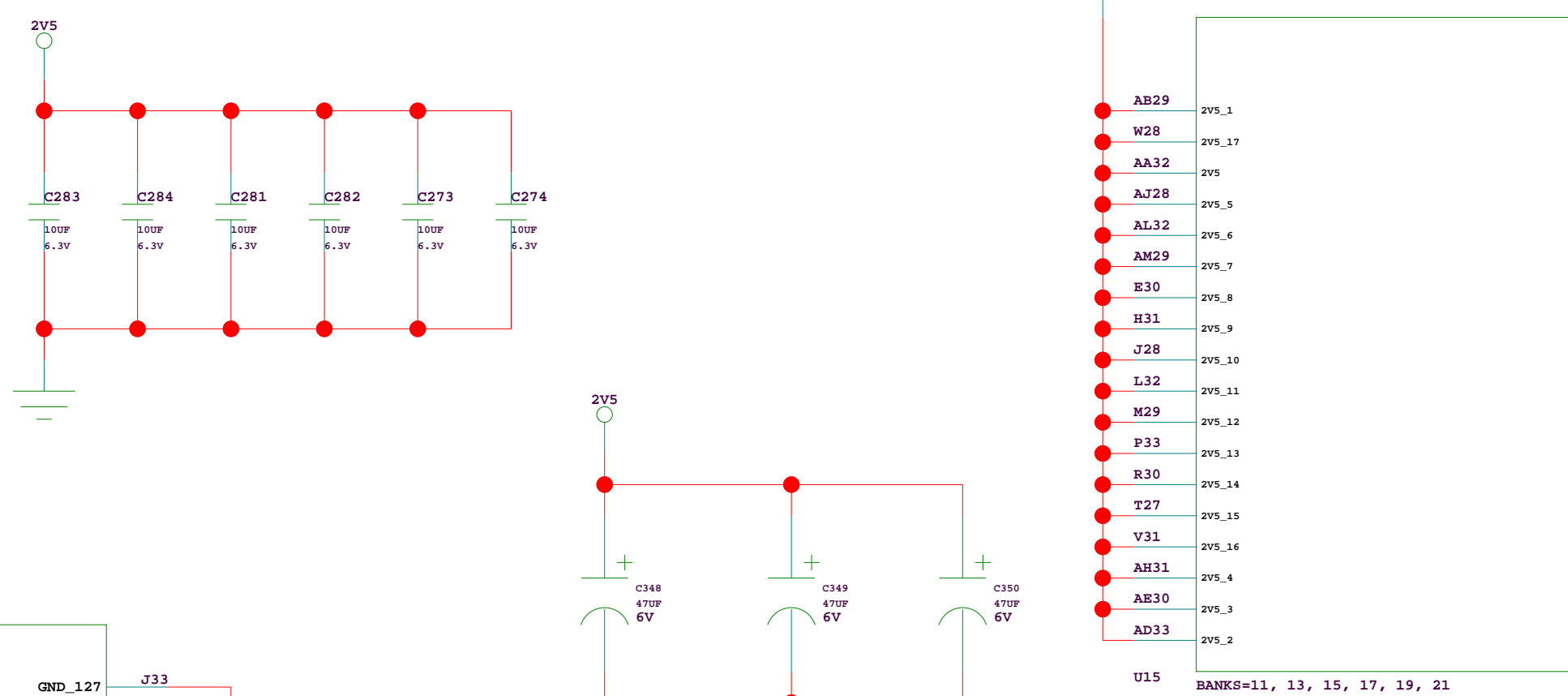
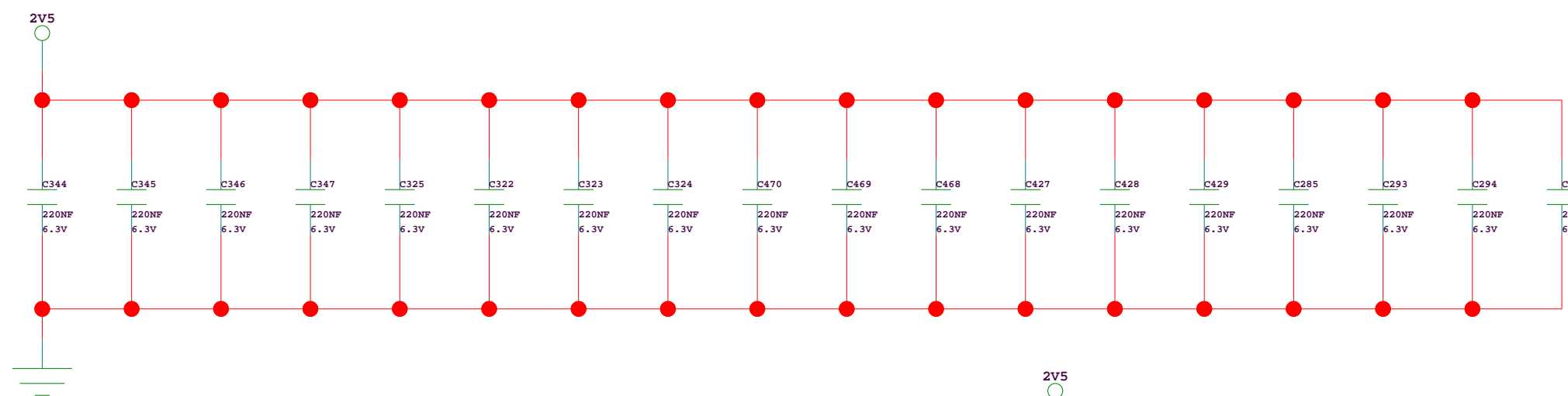
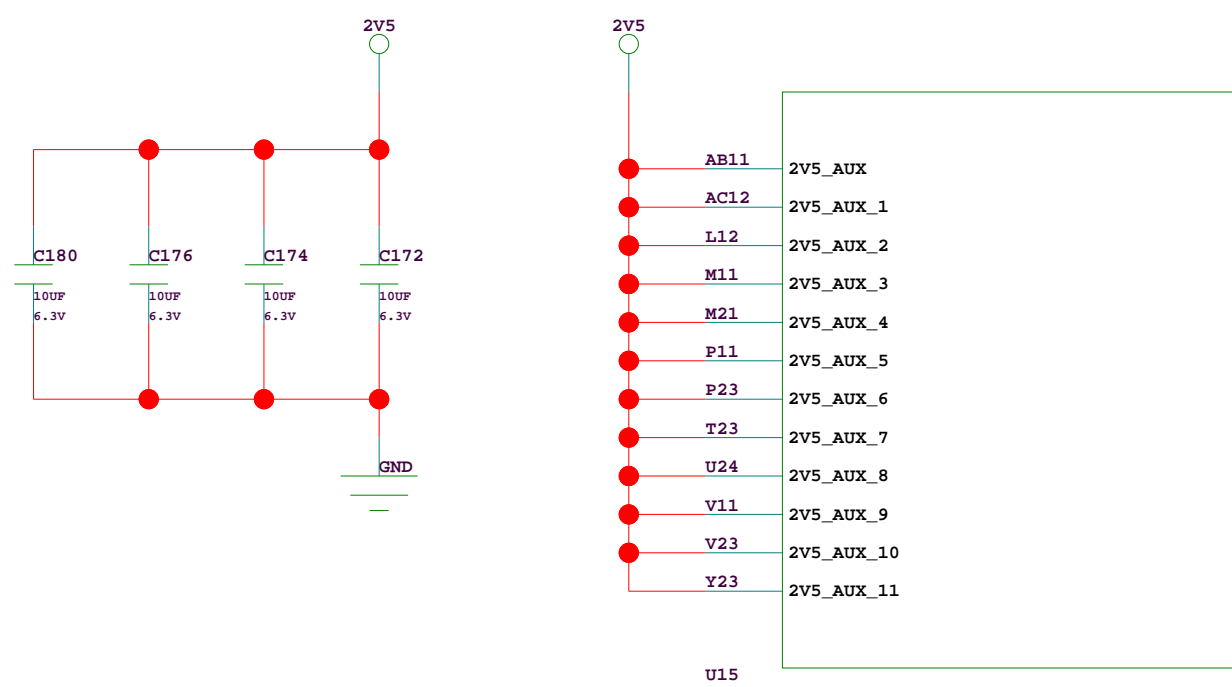
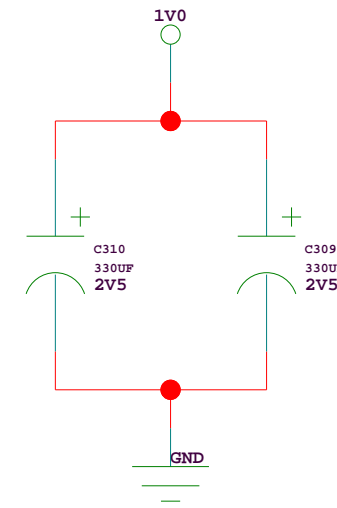
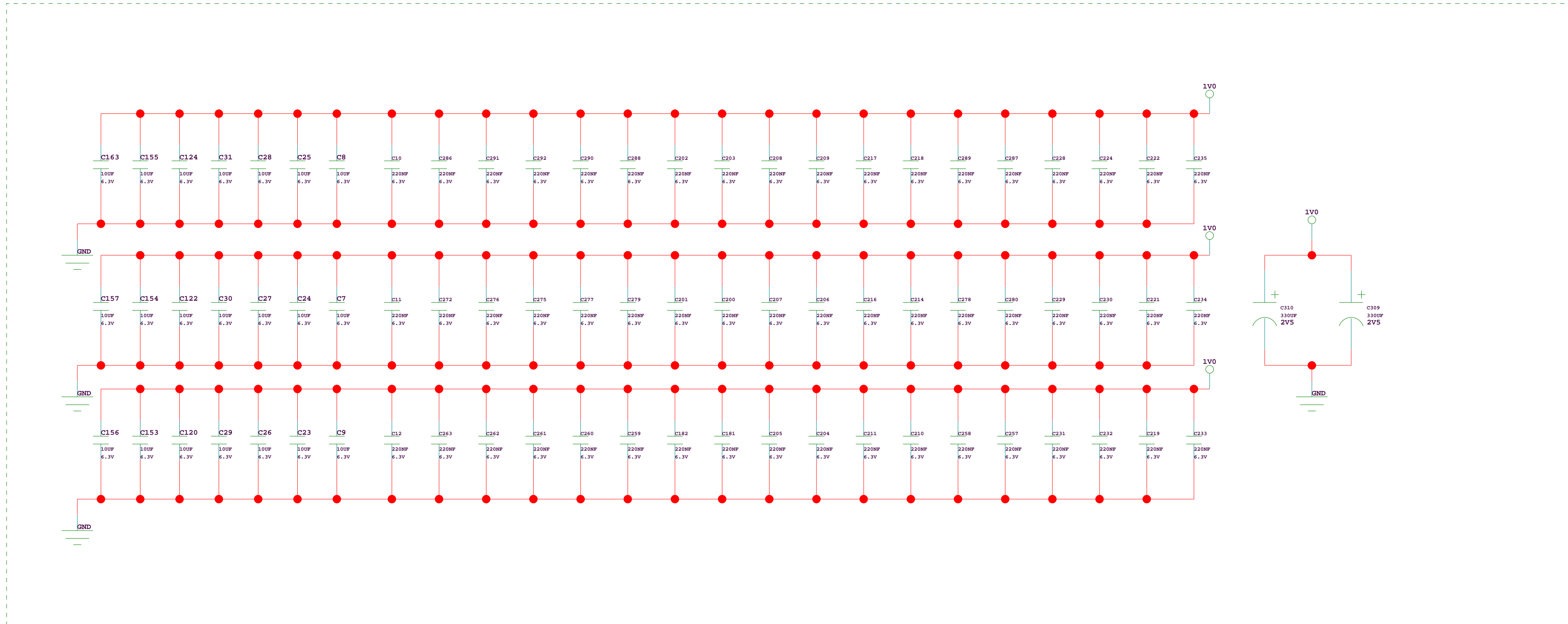
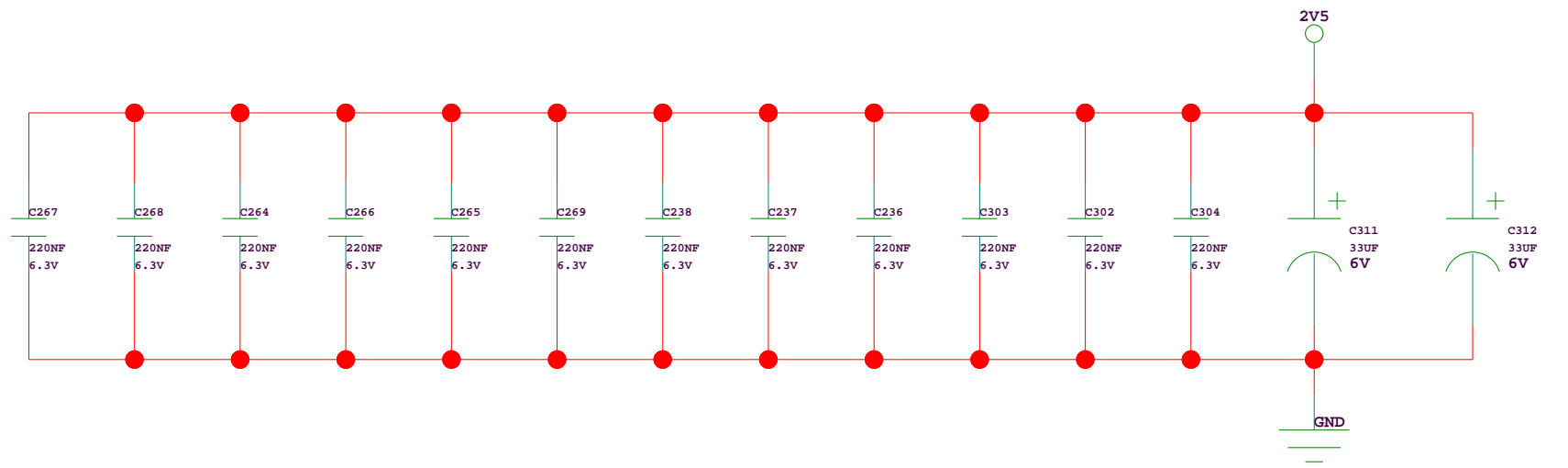
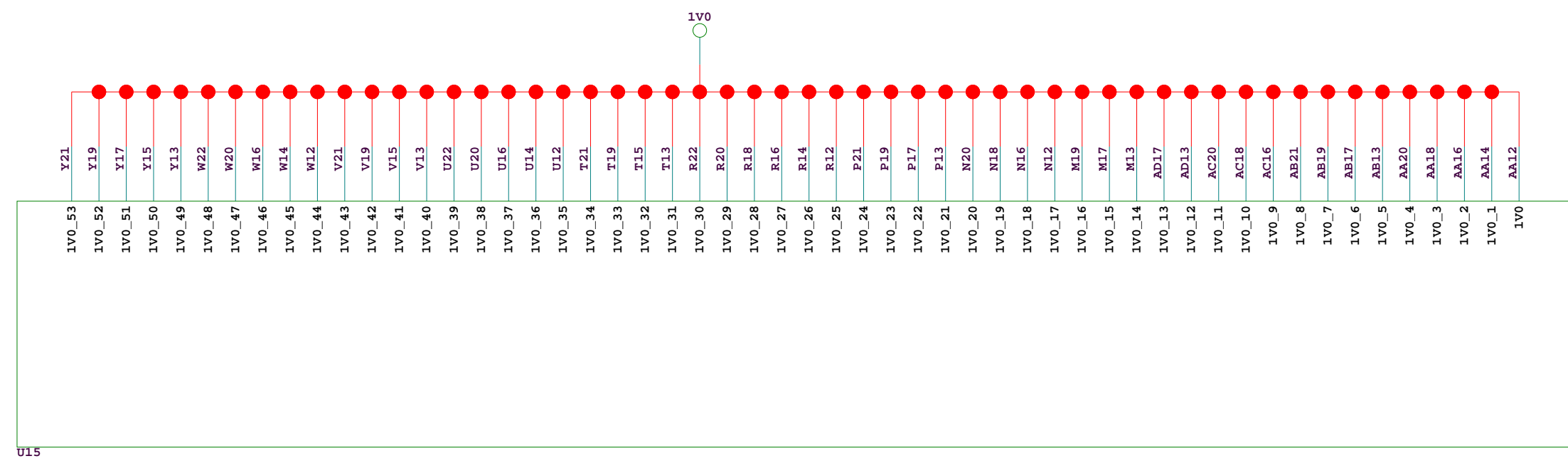
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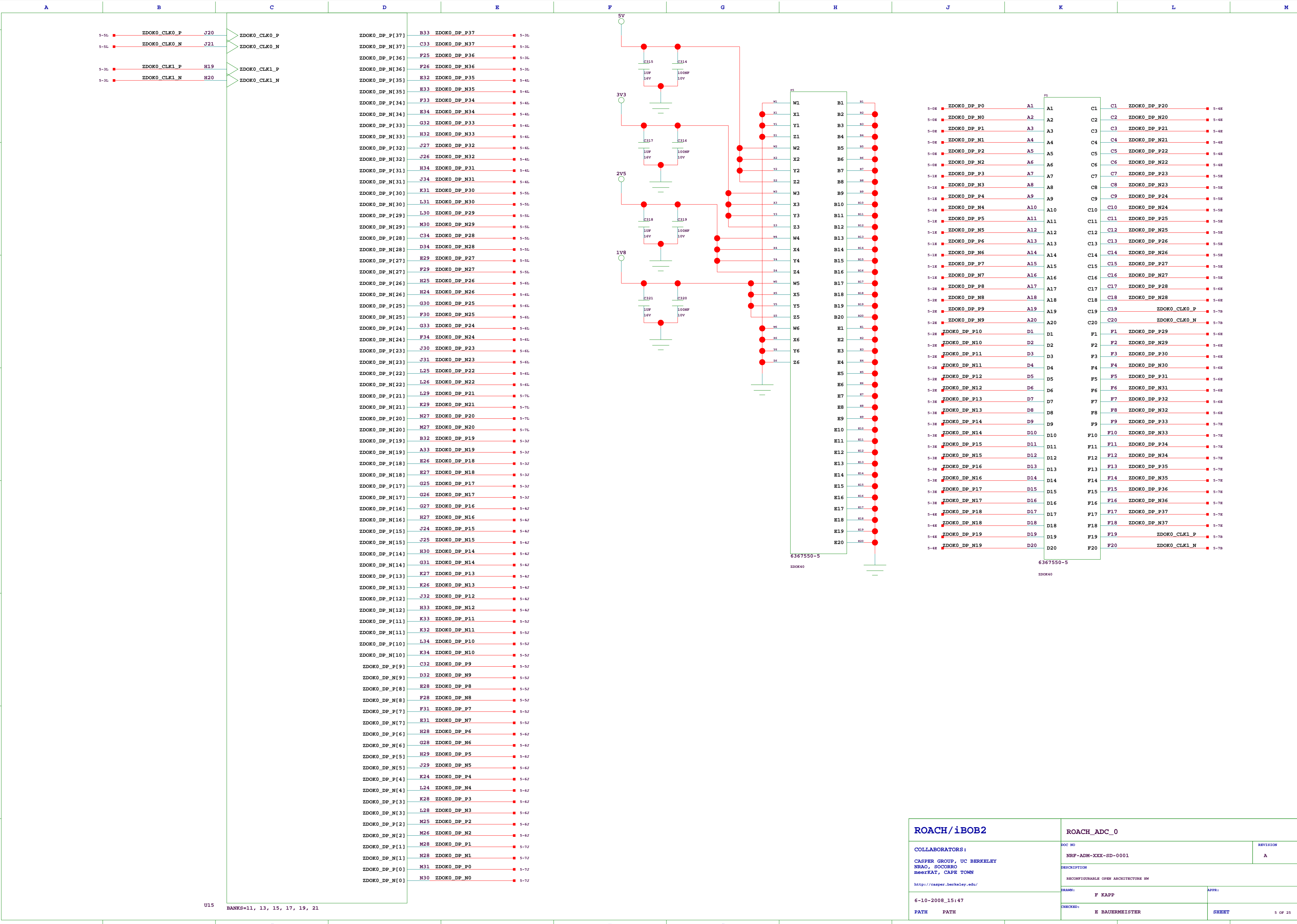
ROACH/iBOB2

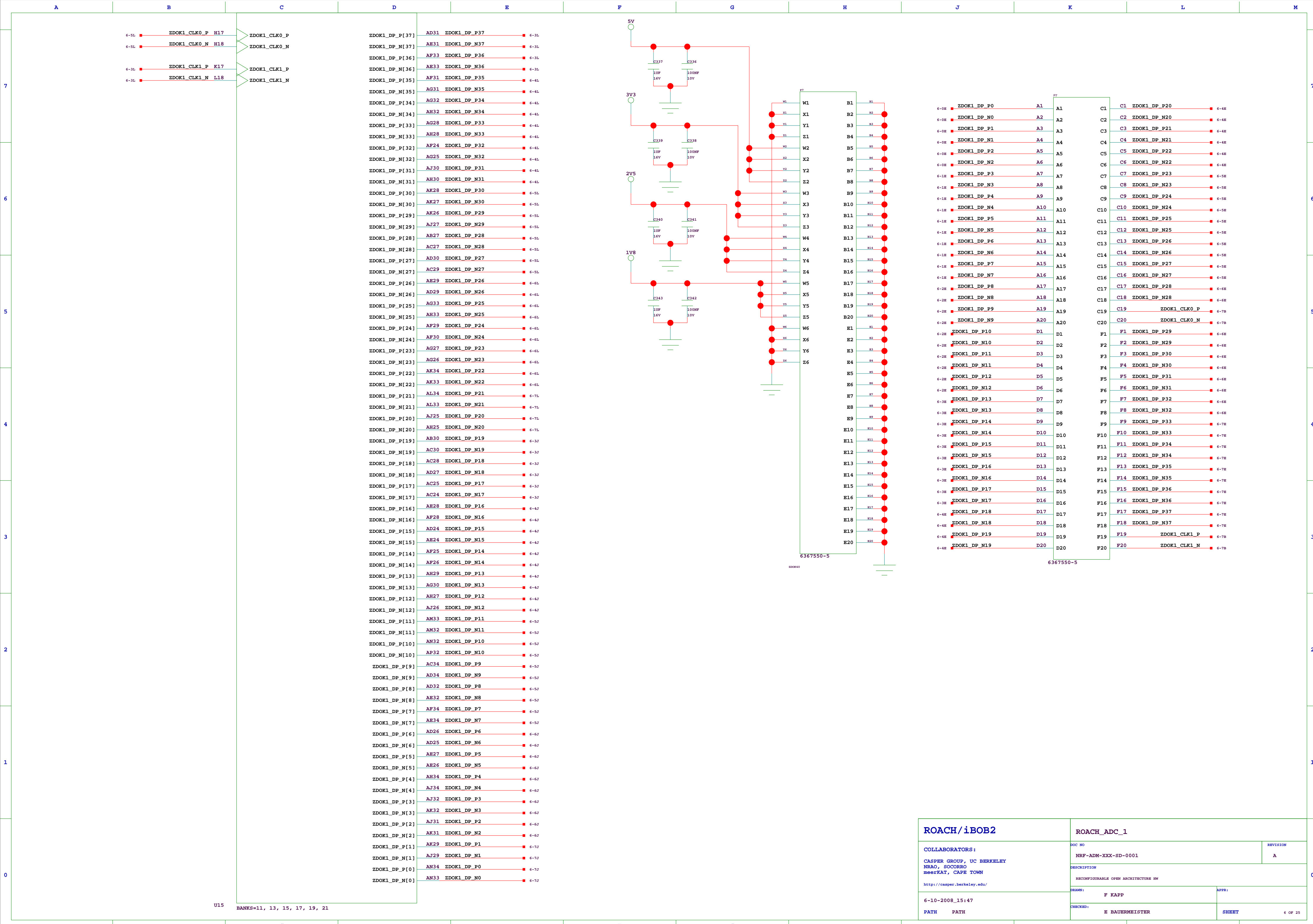


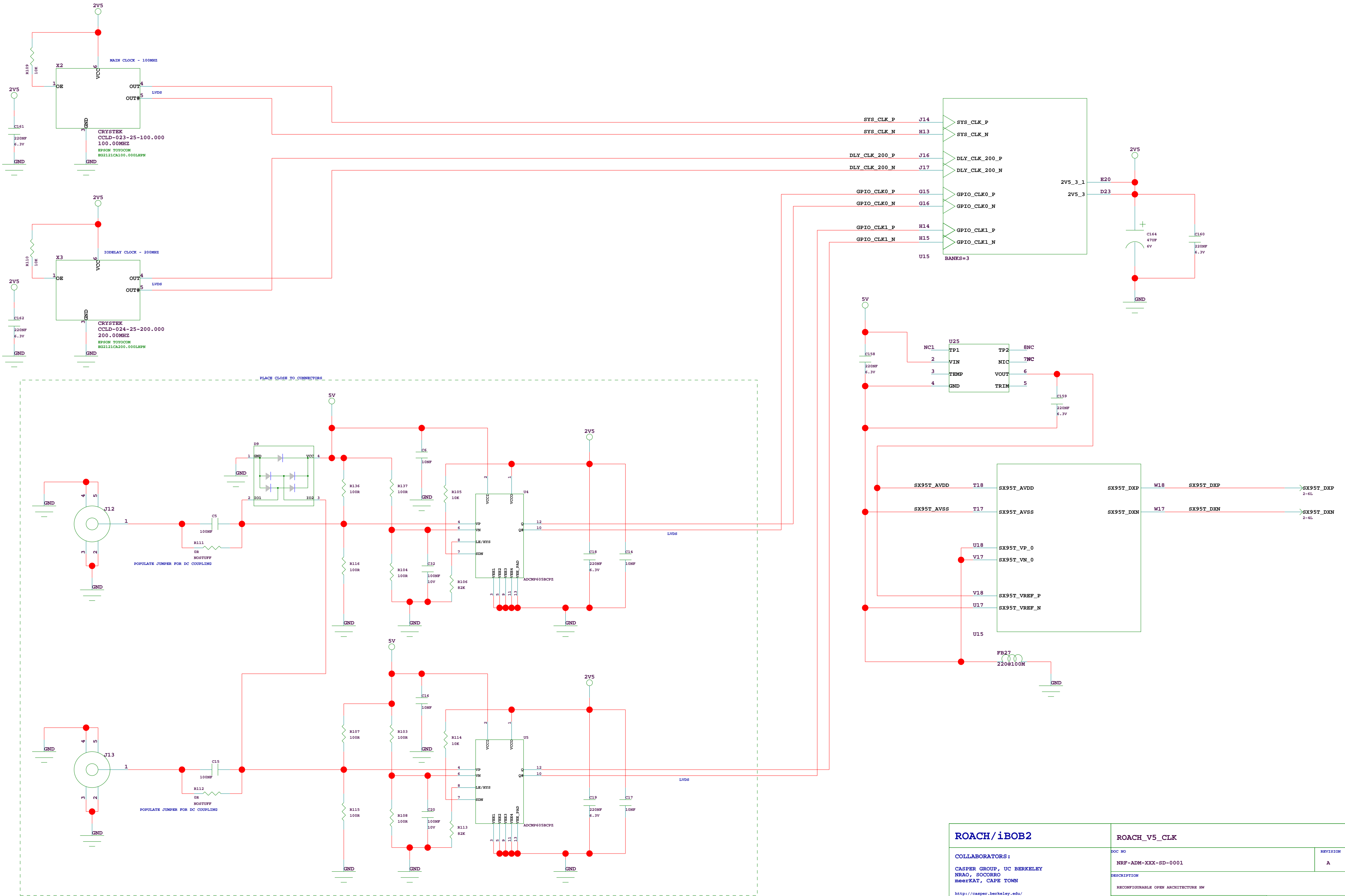


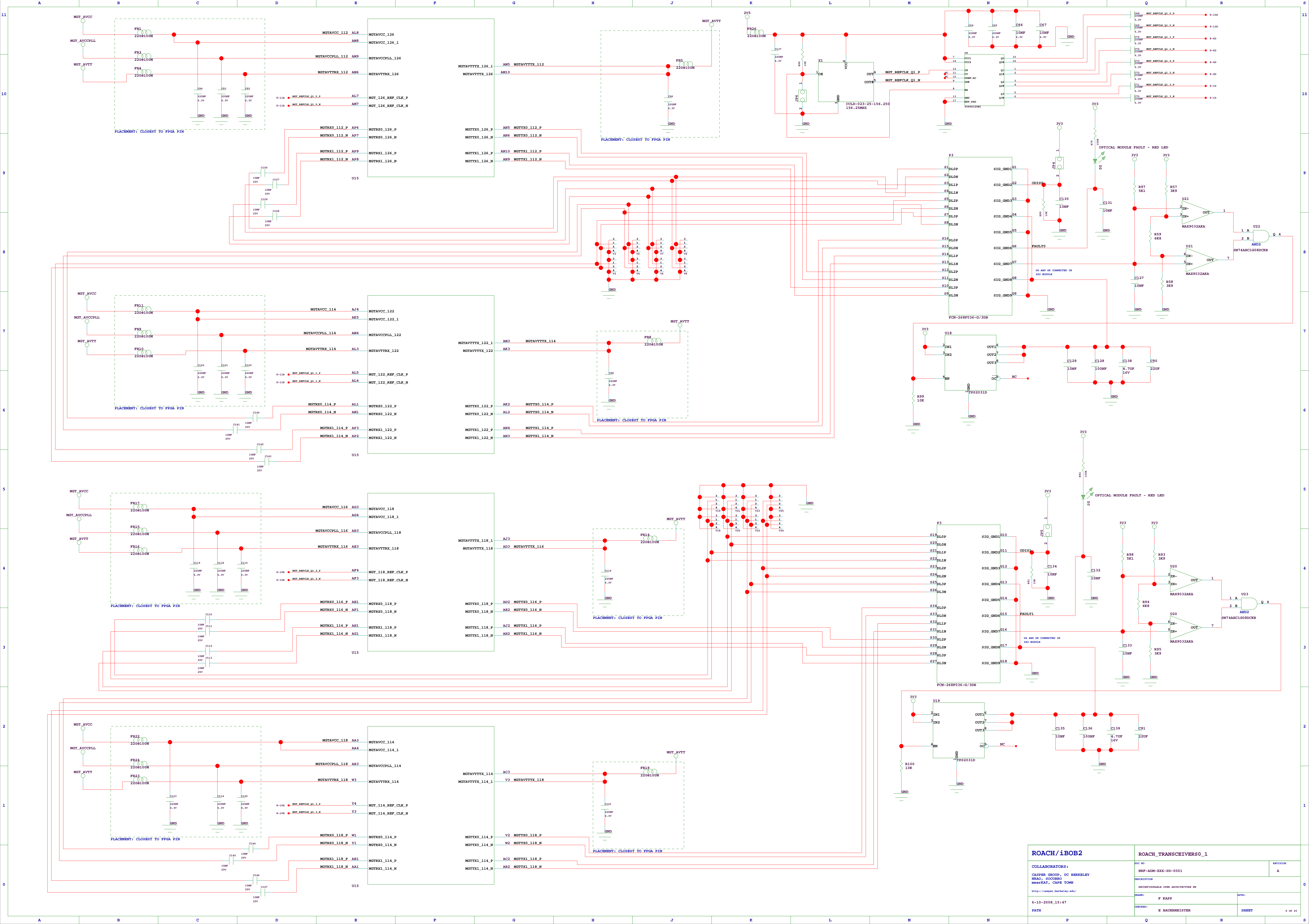


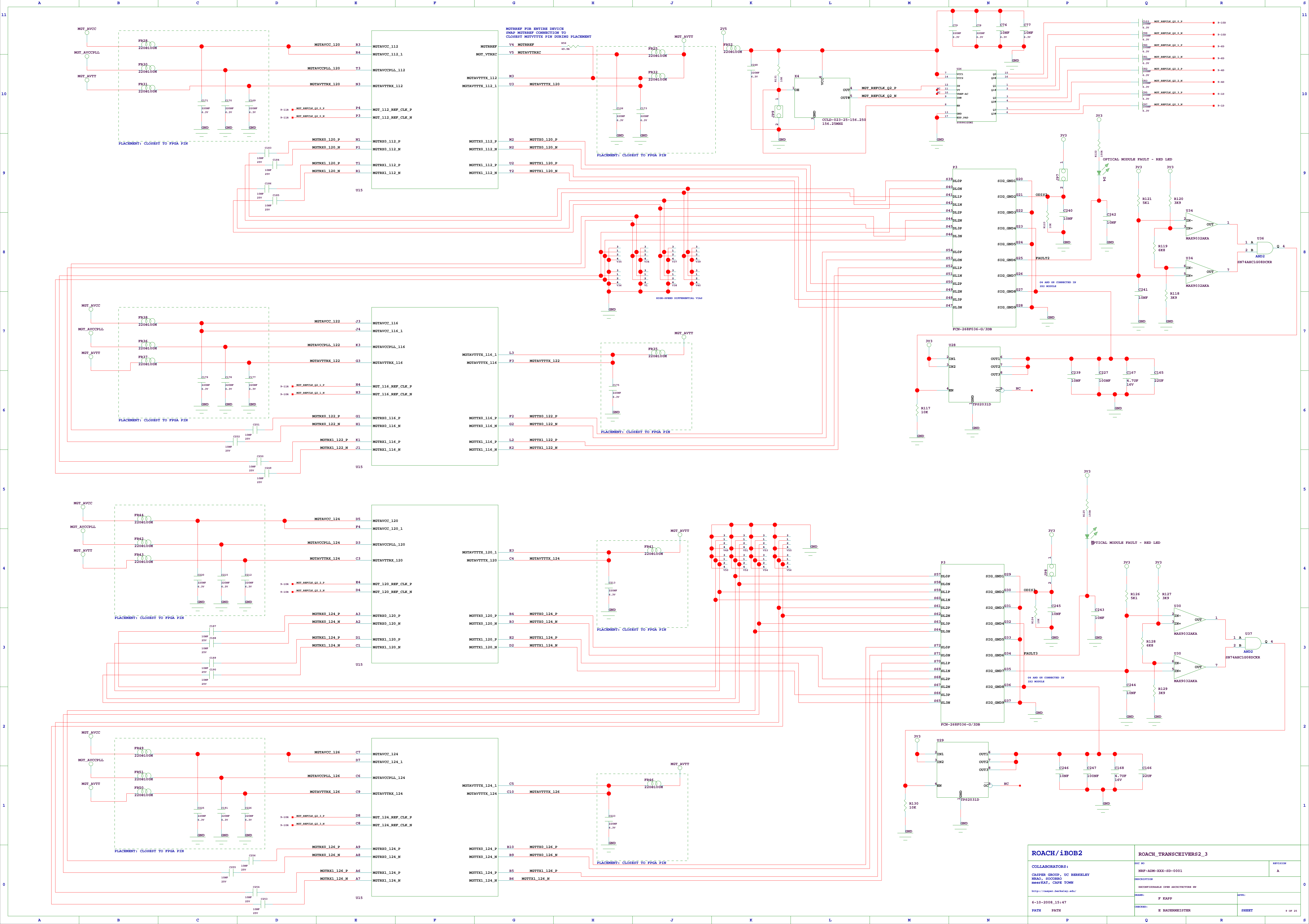
ROACH/iBOB2		ROACH_5V_POWER	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY MRS. SCORCO meerFAT, CAPE TOWN		HRP-ADM-XXX-SD-0001	A
DESCRIPTION		RECONFIGURABLE OPEN ARCHITECTURE SW	
http://casper.berkeley.edu/		NAME:	APP:
6-10-2008_15:47		F KAPP	
PATH PATH		CHECKED:	
		E BAUERMEISTER	SHEET
			4 OF 2

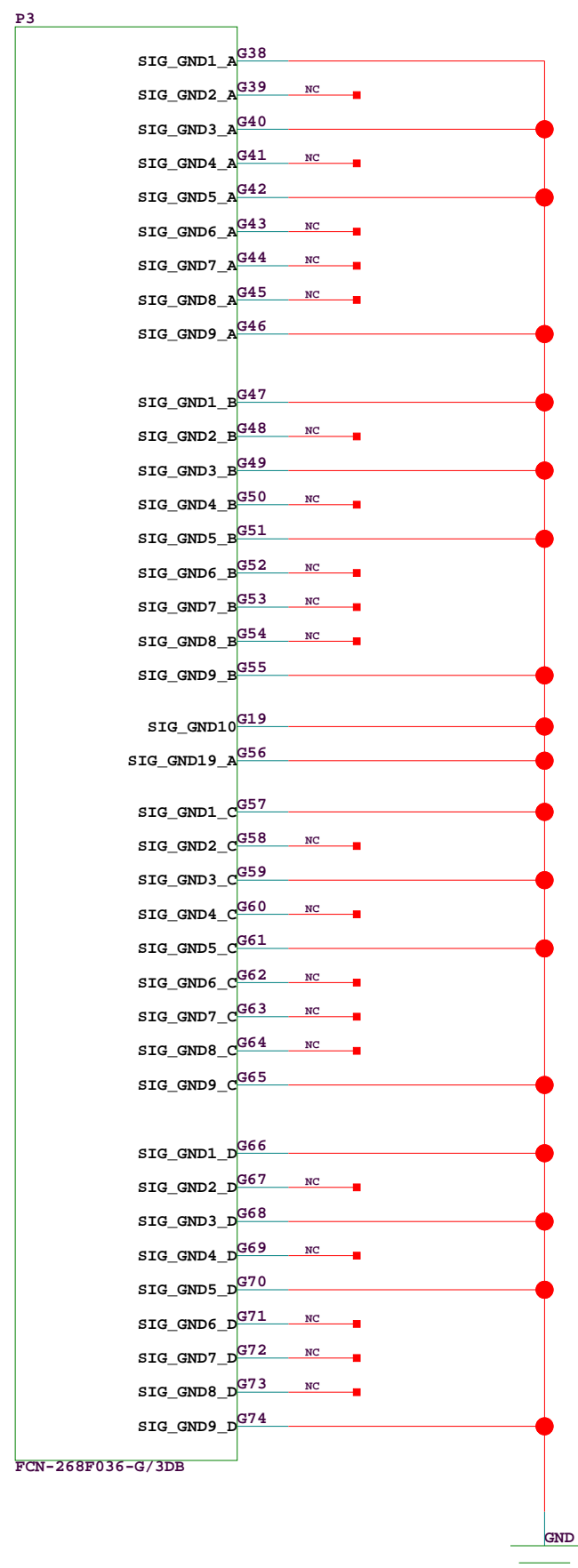
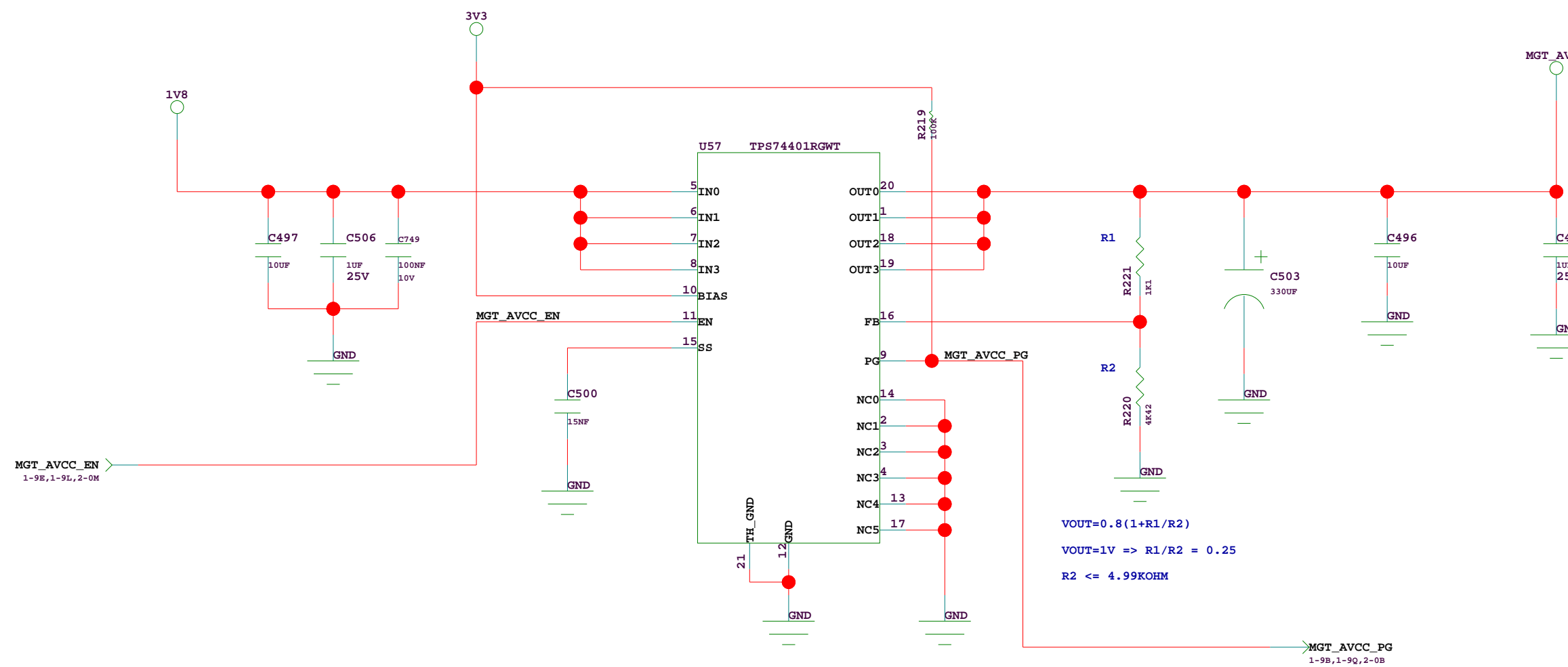
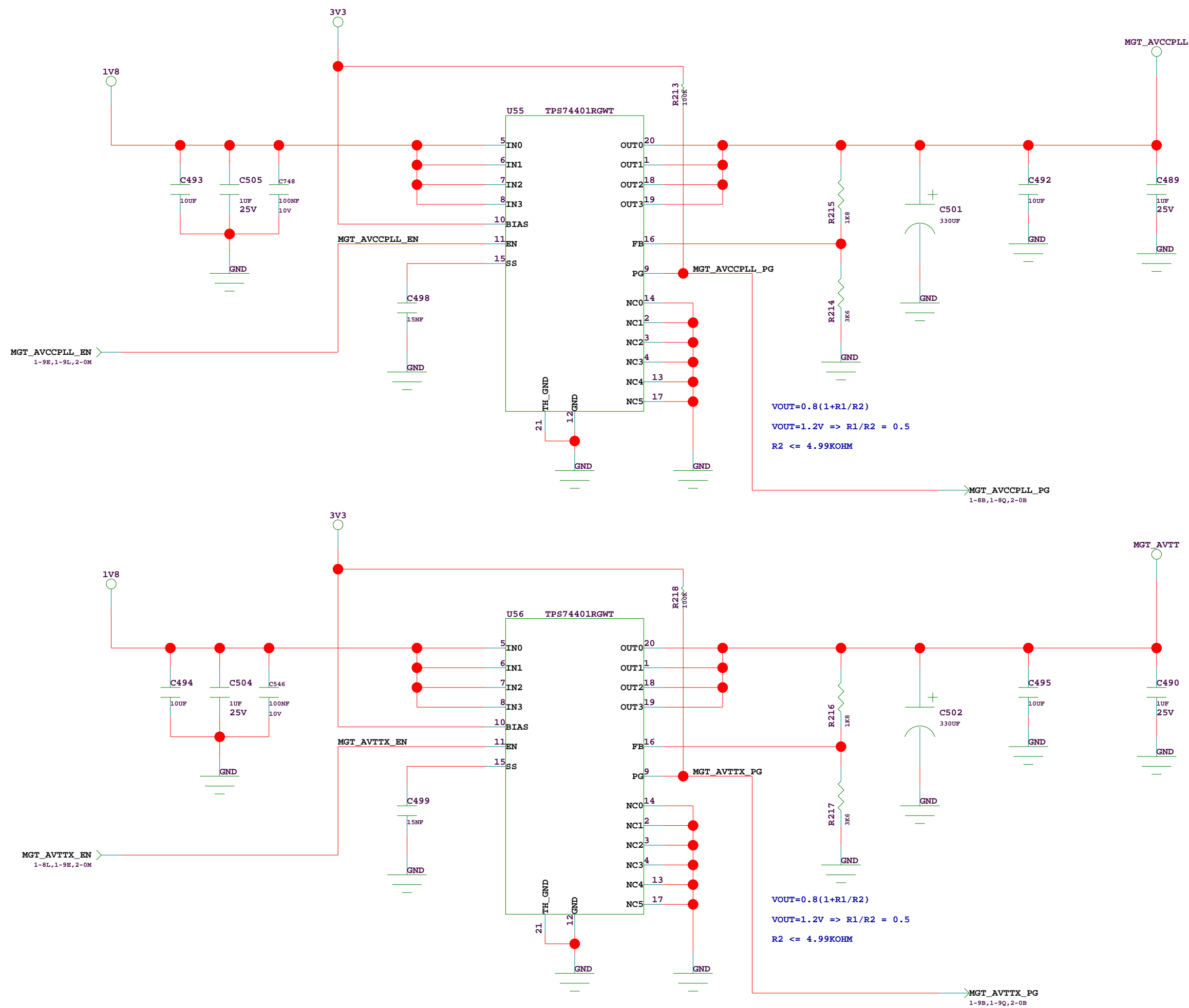




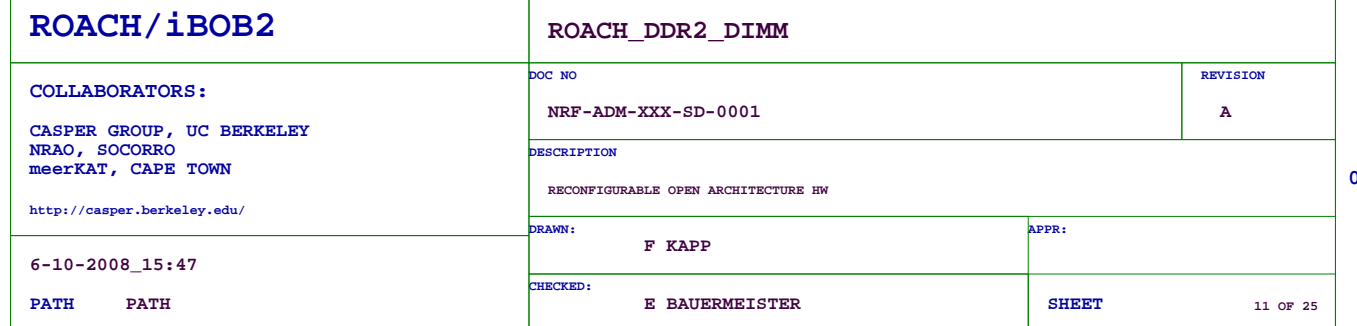


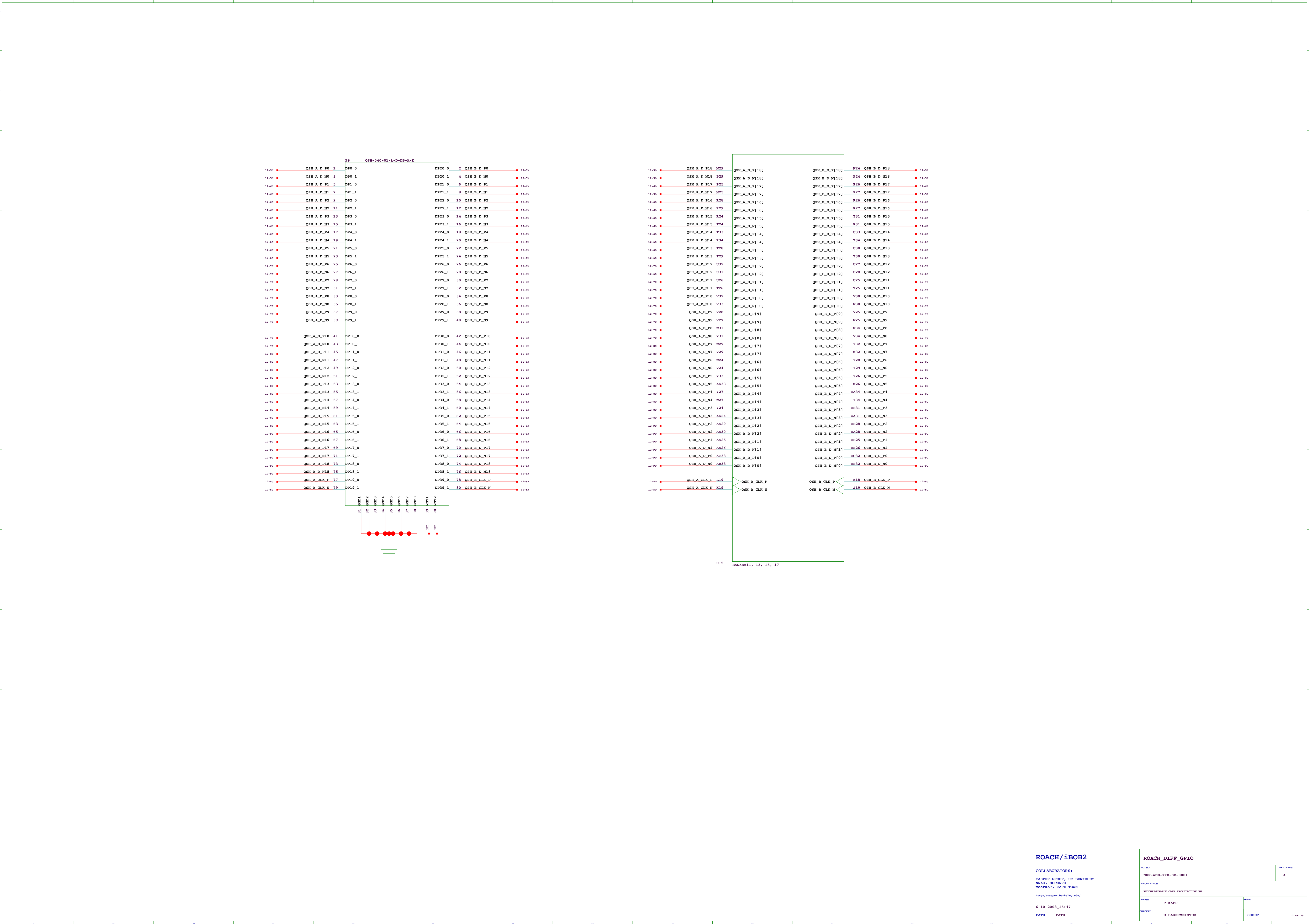




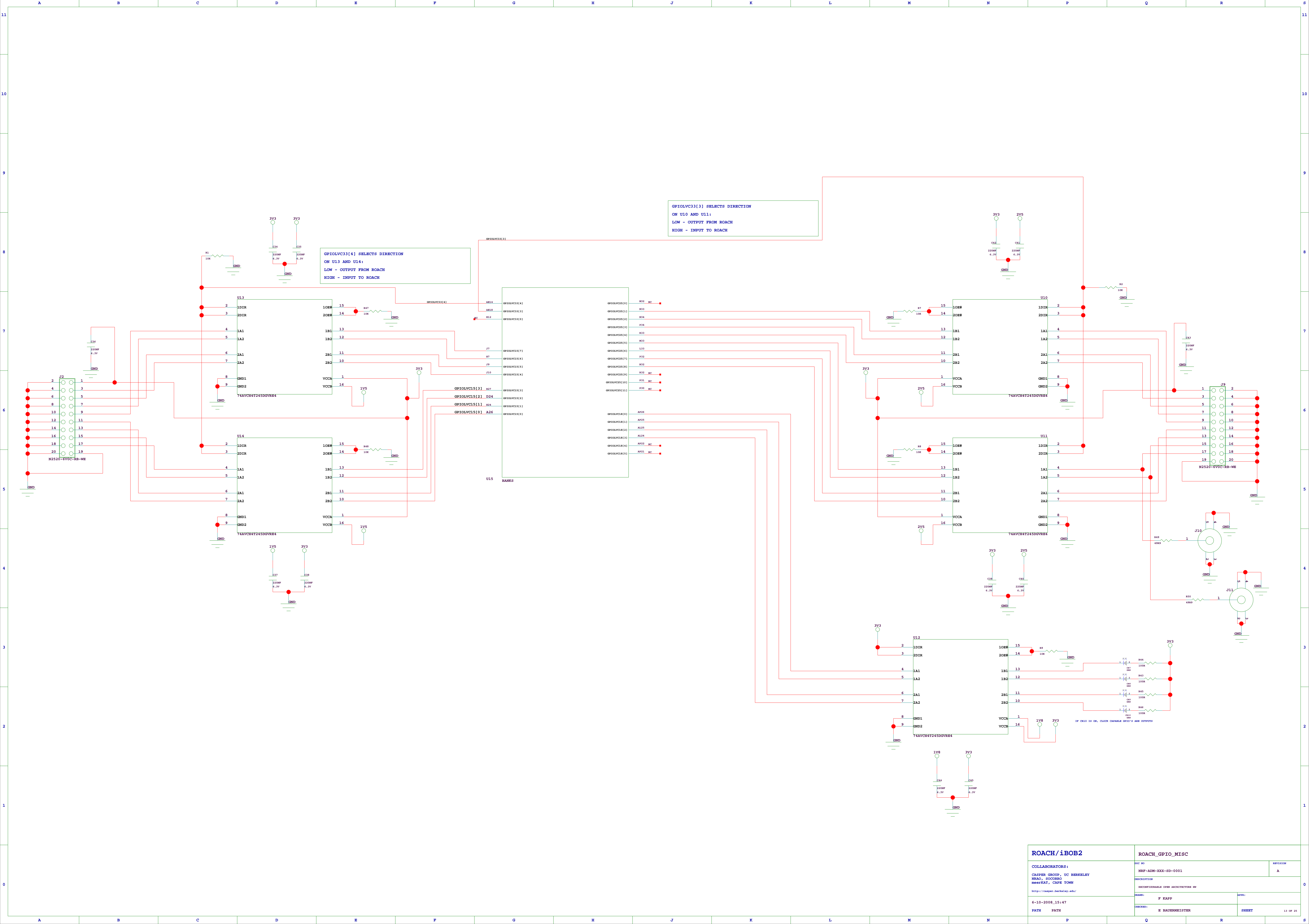


ROACH/iBOE2				ROACH_TRANSCEIVERS_PSU			
COLLABORATORS:				DOC NO:	NRF-ADM-XXX-SD-0001		
CASPER GROUP, UC BERKELEY				REVISION:	A		
NRAO, SOCCORRO				DESCRIPTION:	RECONFIGURABLE OPEN ARCHITECTURE RF		
BARRACUDA, CAPE TOWN				DATE:	6-10-2008 15:47		
http://casper.berkeley.edu/				BY:	F KAPP		
6-10-2008 15:47				CHECKED:	R BAUERMASTER		
PATH	PATH	PATH	PATH	PATH	PATH	PATH	PATH
				SHEET			
				10 OF 25			

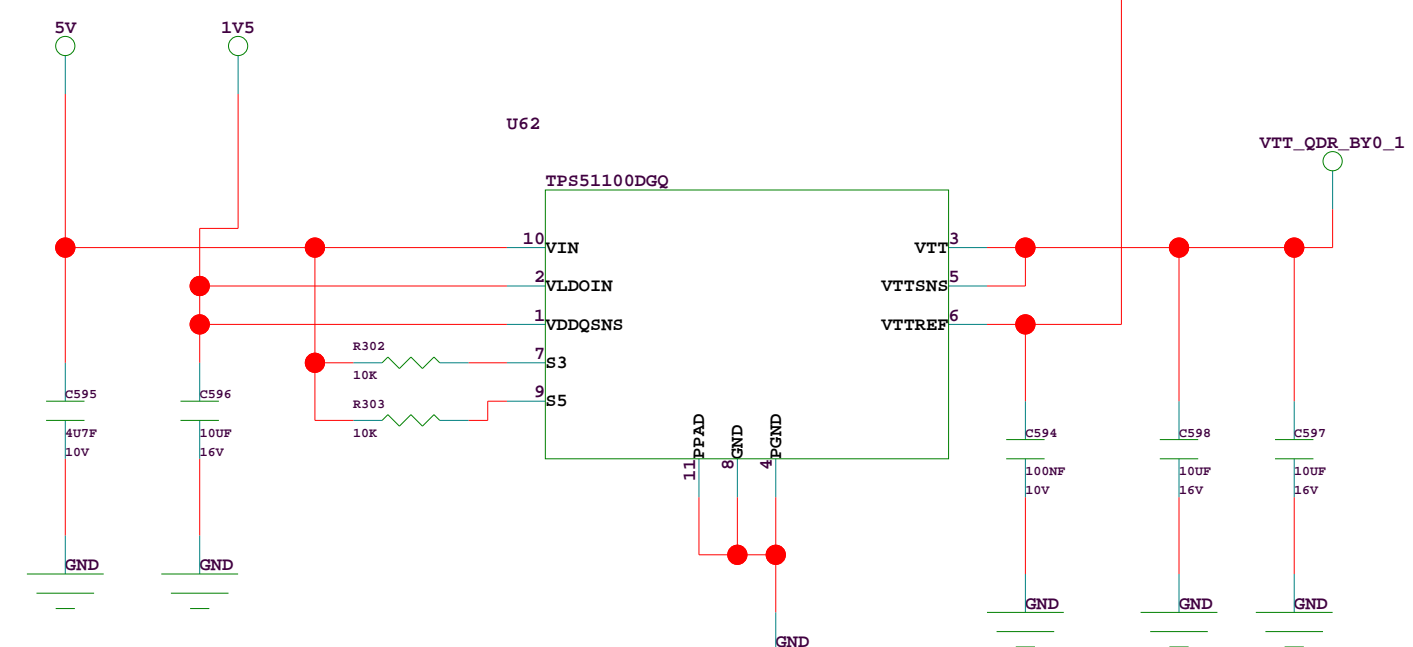
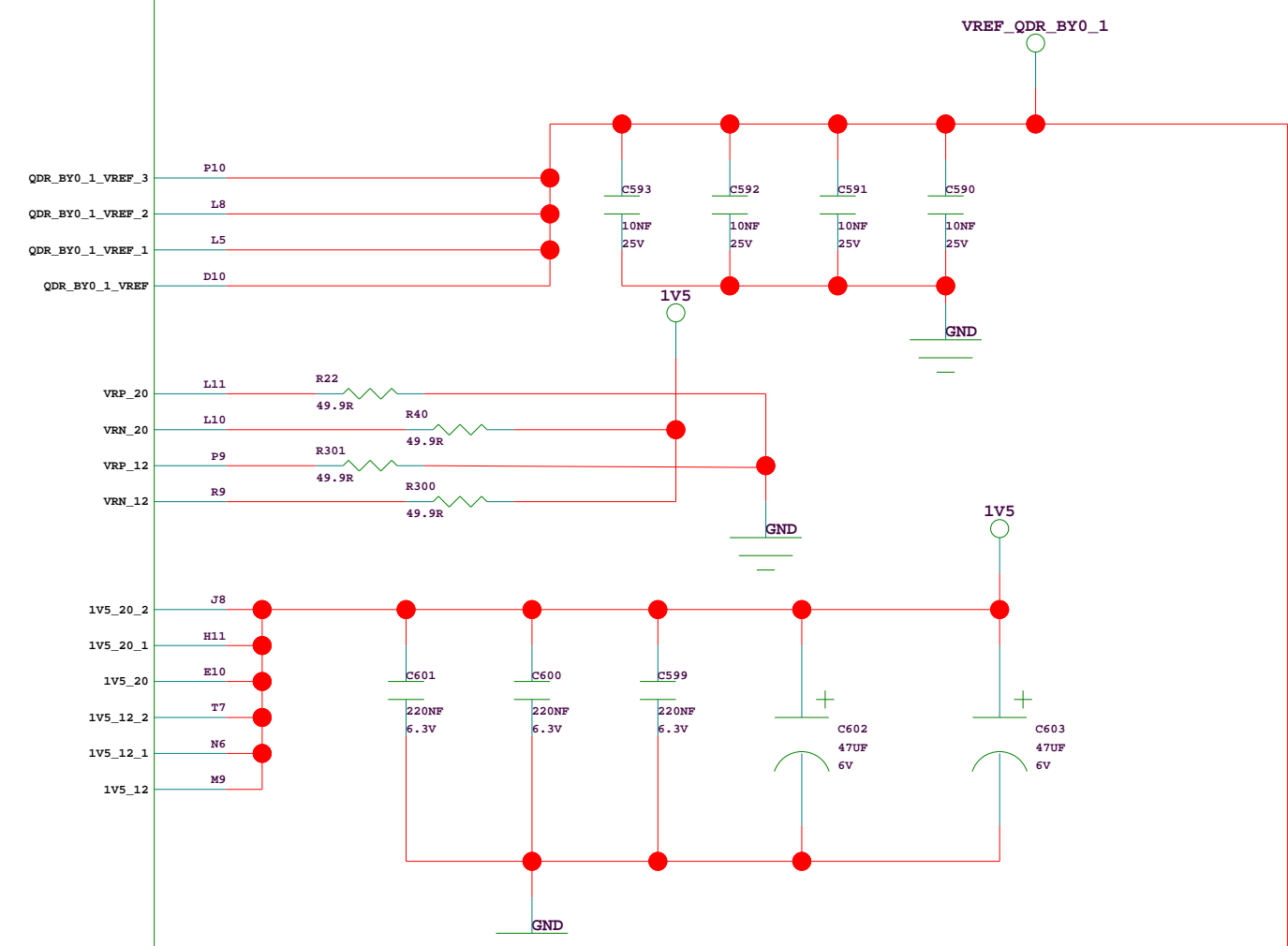
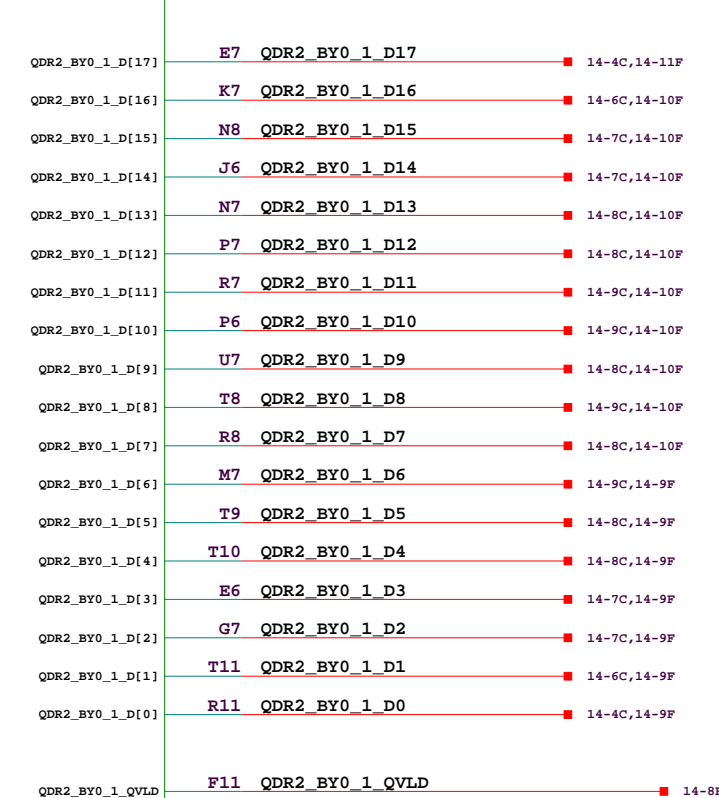
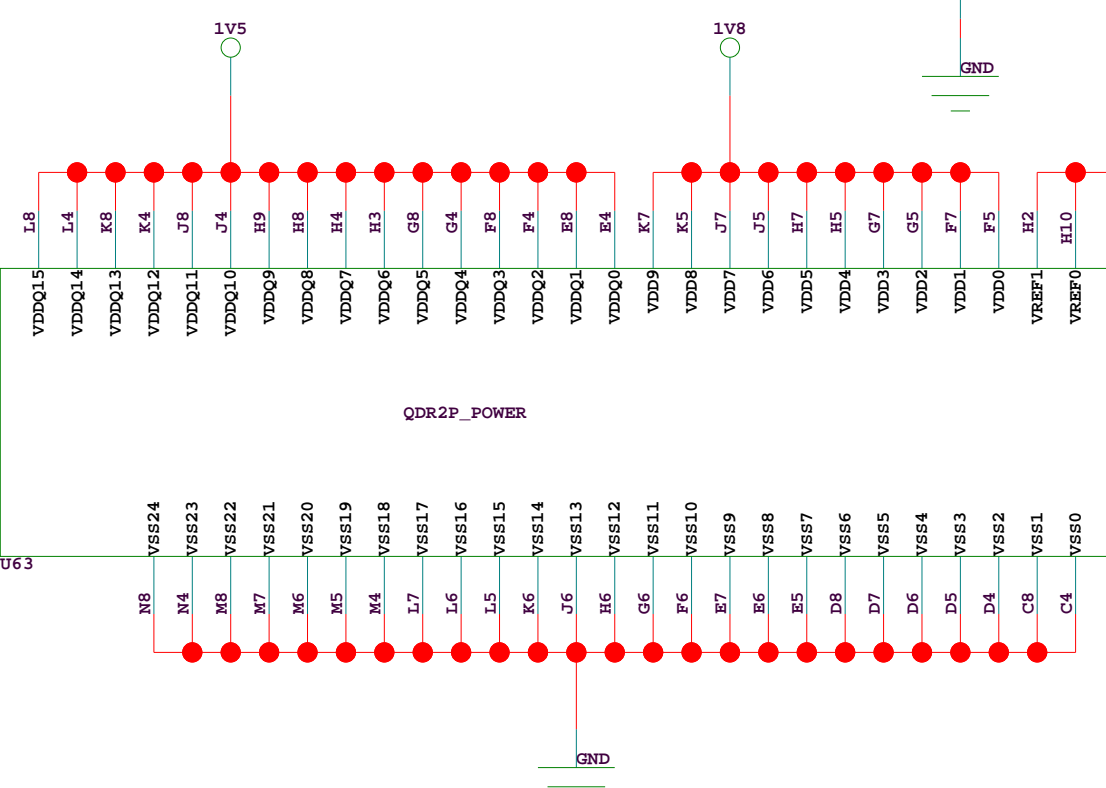
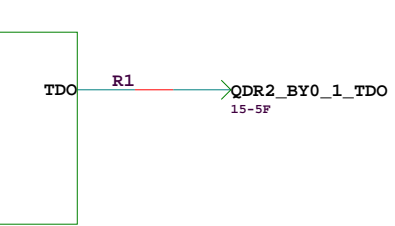
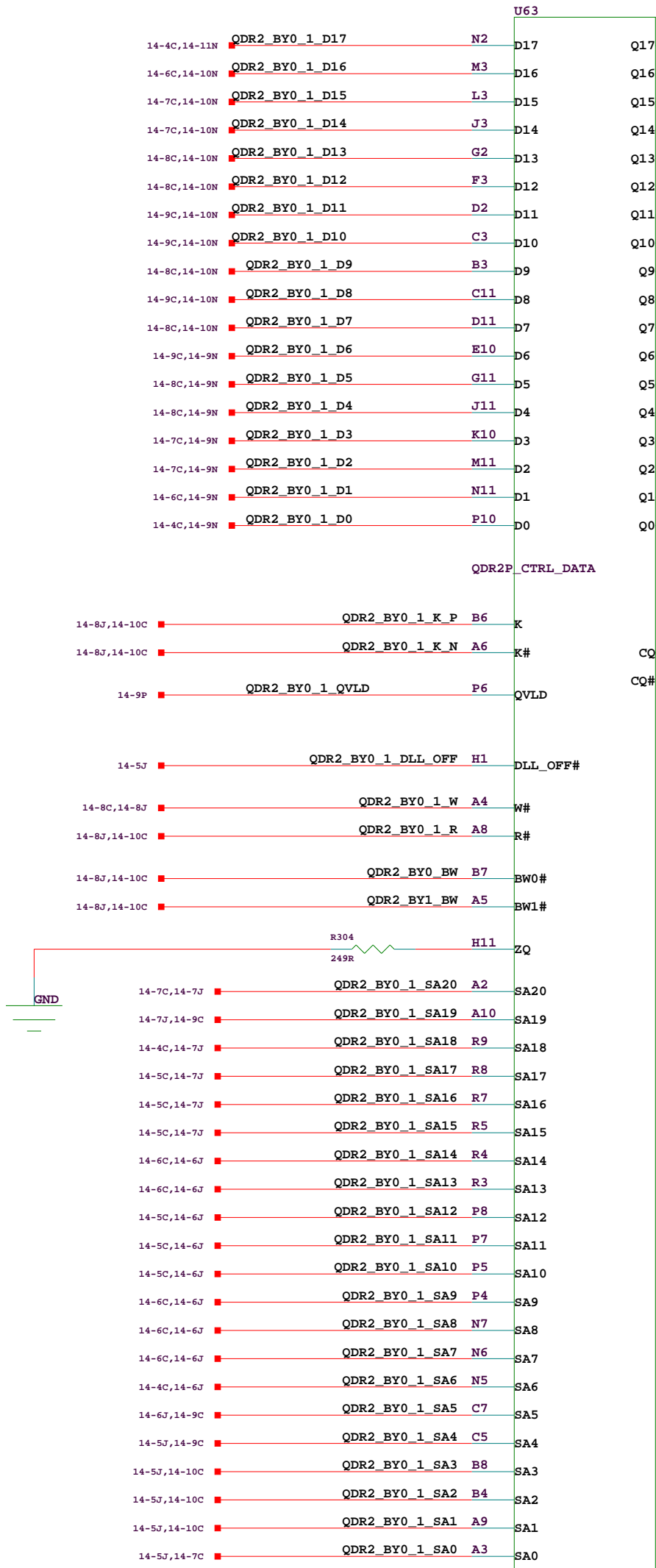
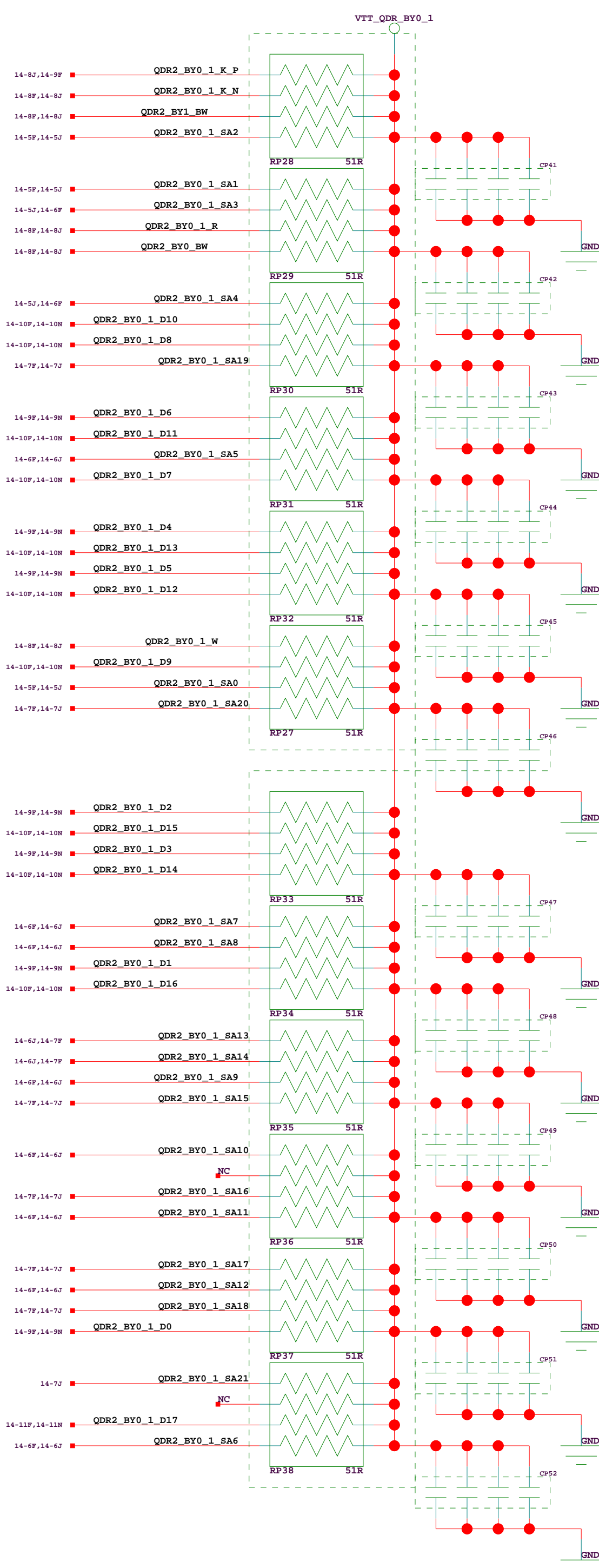




ROACH/iBOB2				ROACH_DIFF_GPIO			
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOONERO BauerKAT, CAPE TOWN http://casper.berkeley.edu/				DOC NO:		REVISION	
				NRF-ADM-XXX-SD-0001		A	
				DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW			
DRAWN:				F KAPP		APPR:	
6-10-2008 15:47				CHECKED:		E BAUERMEISTER	
PATH		PATH		SHEET		12 OF 25	

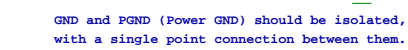
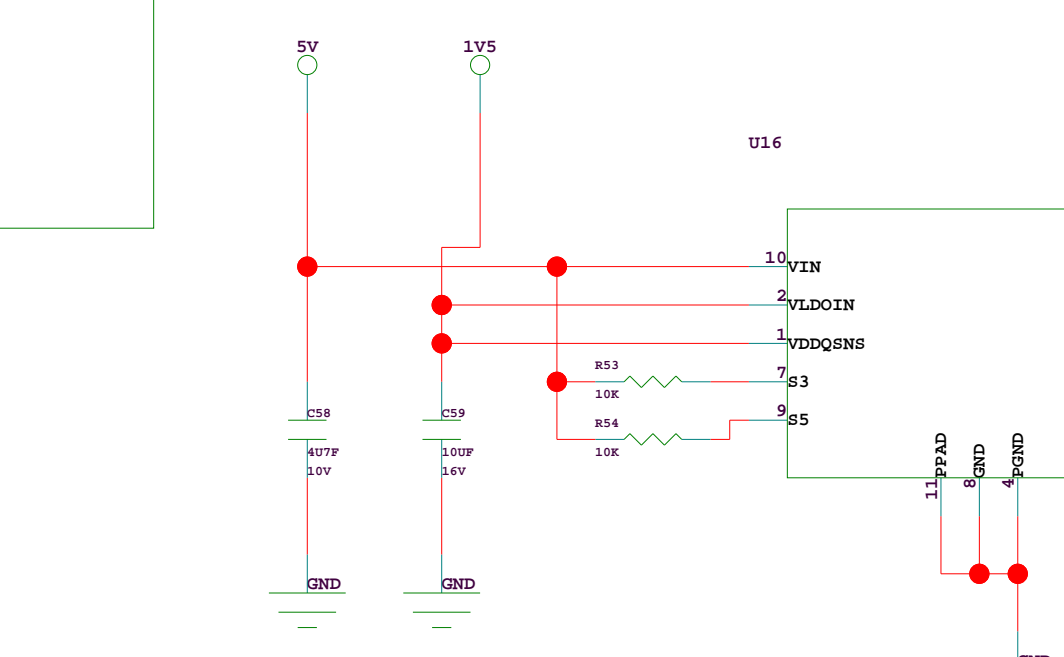
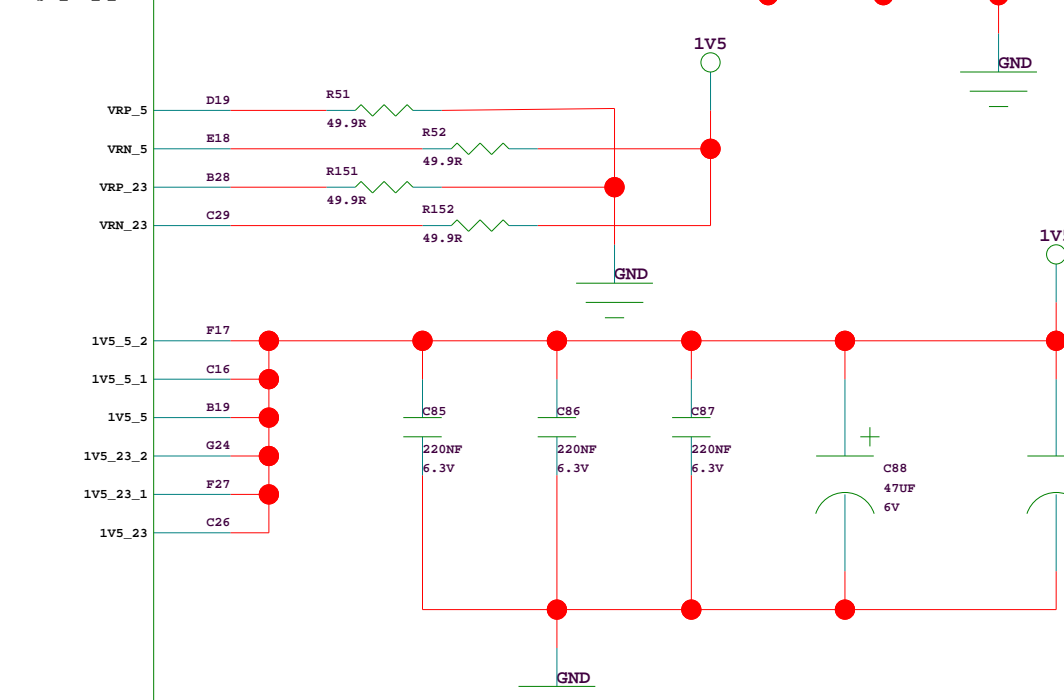
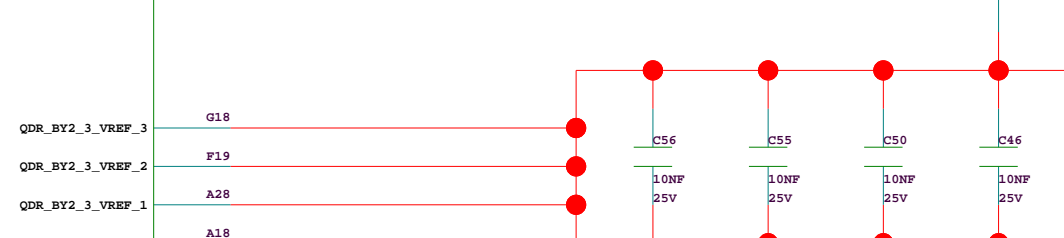
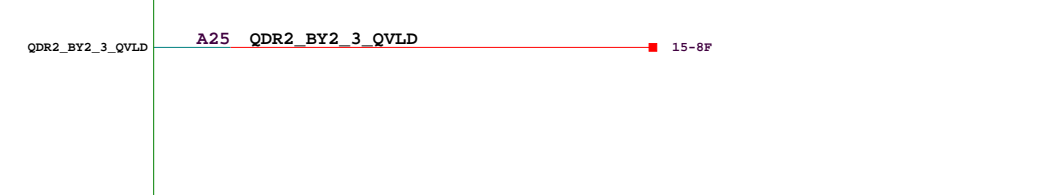
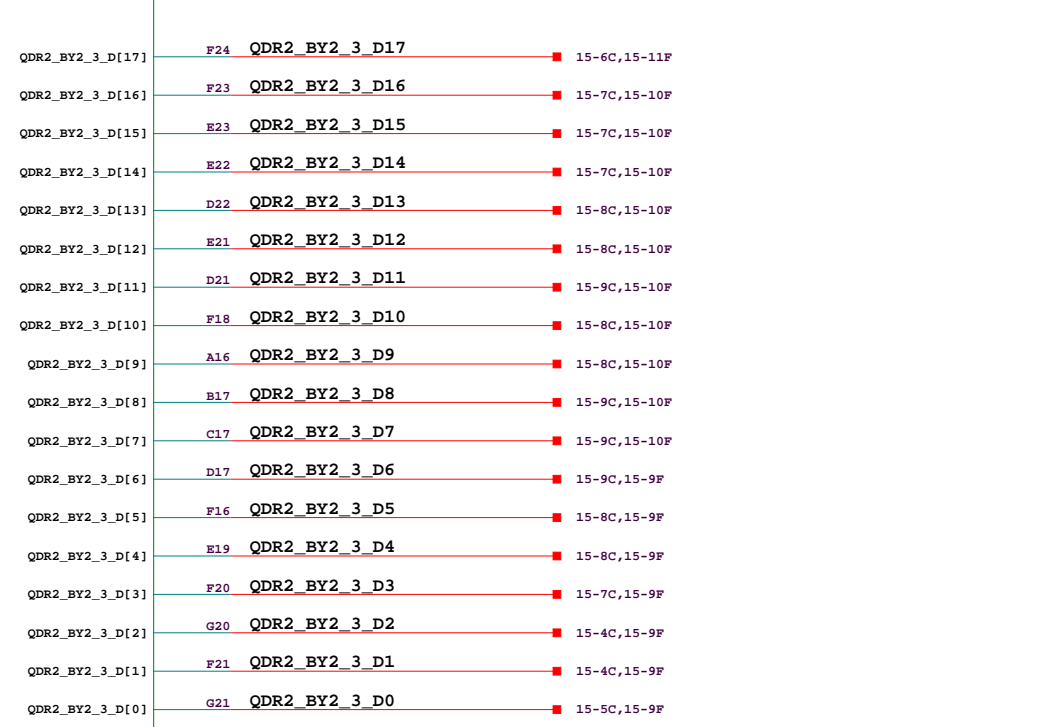
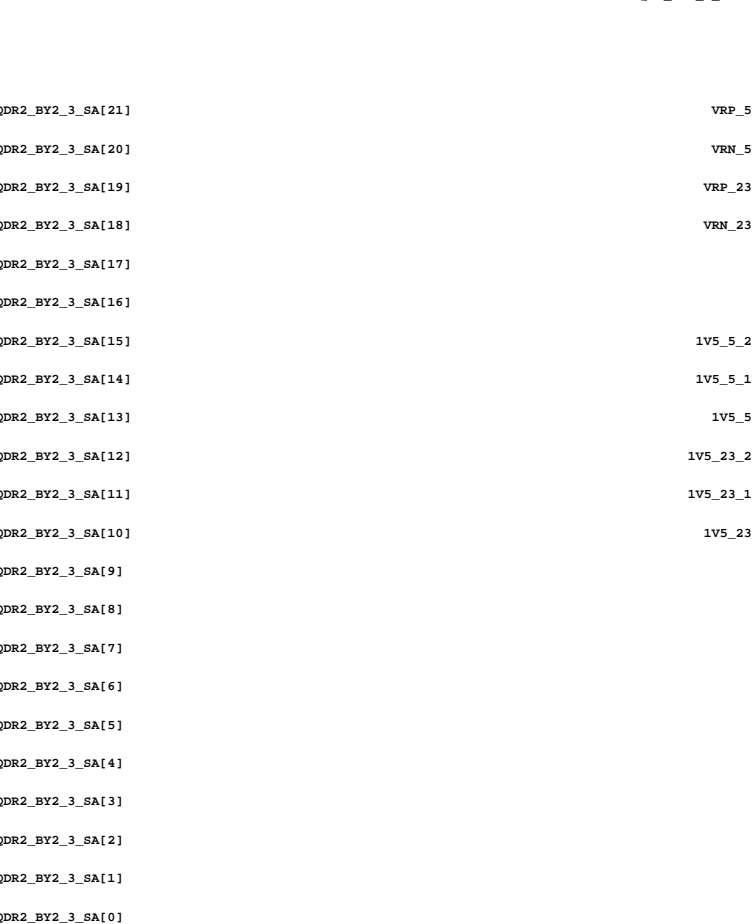
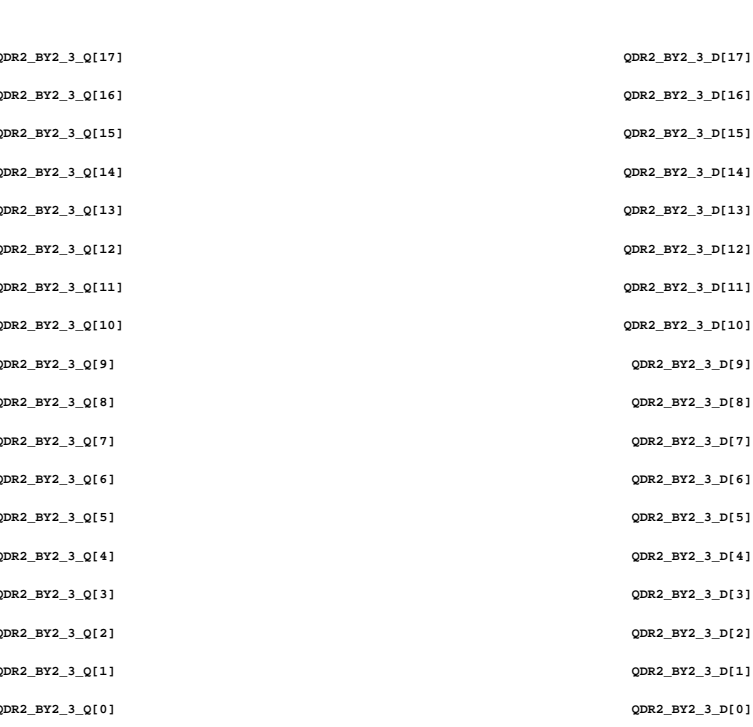
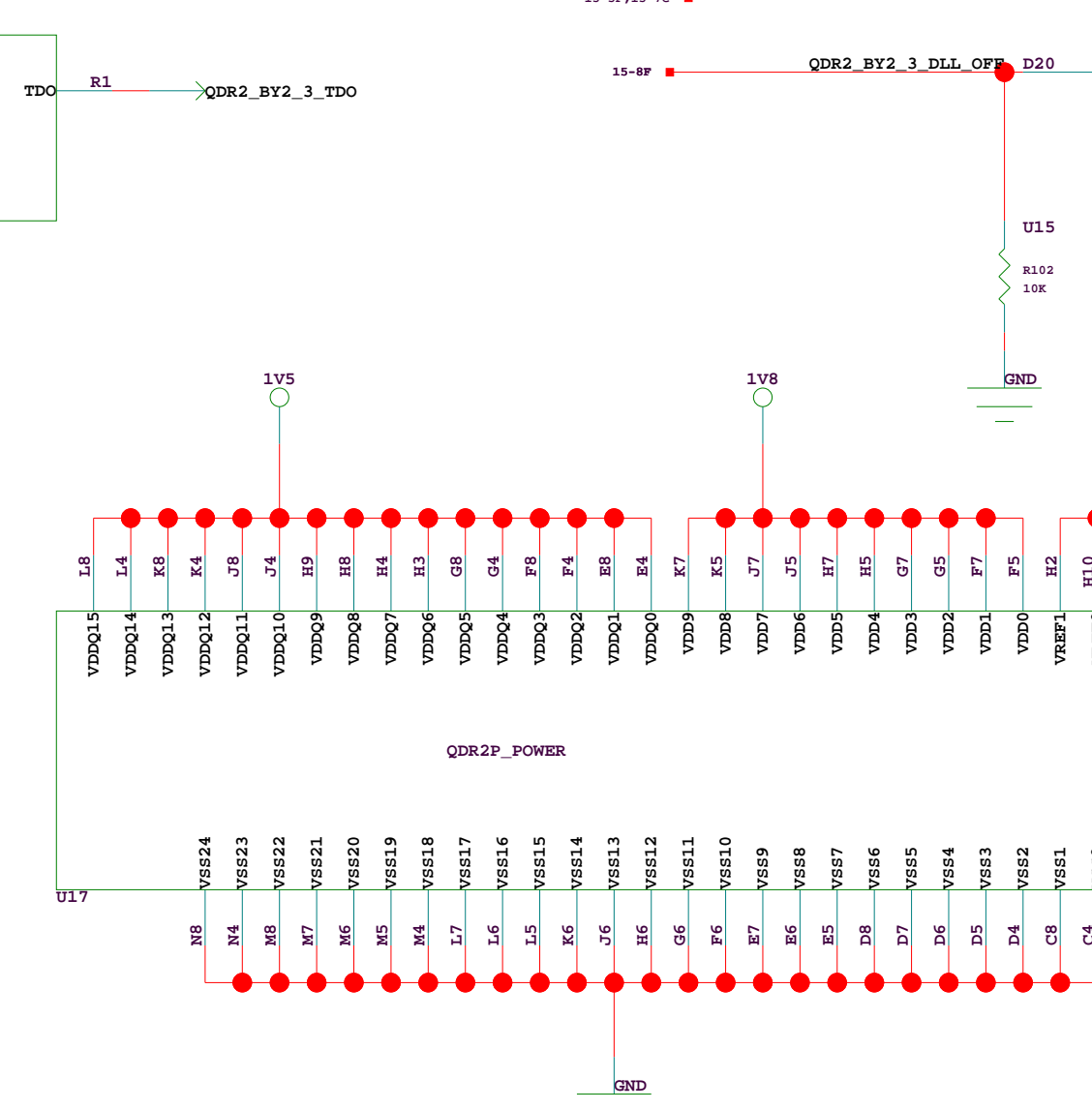
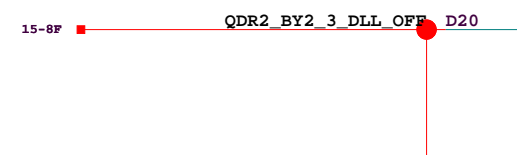
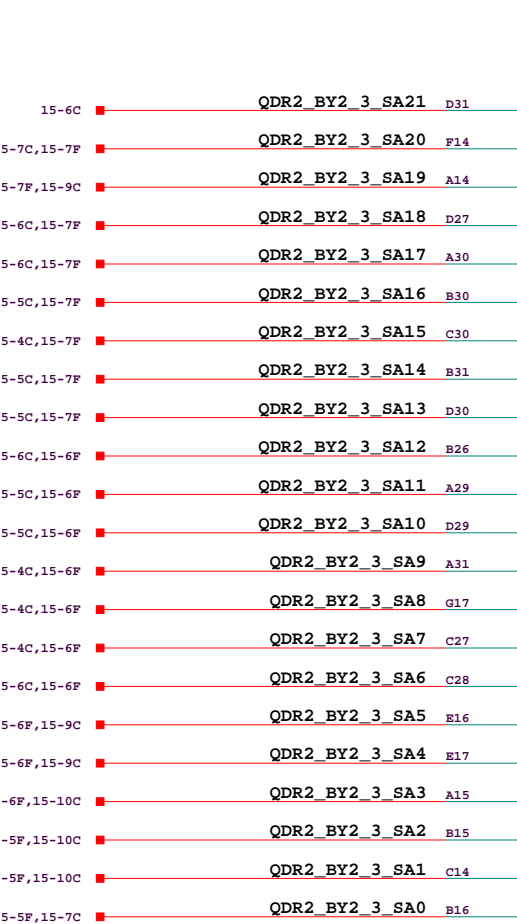
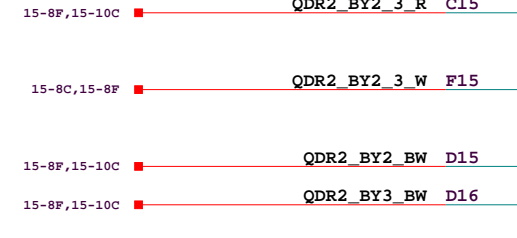
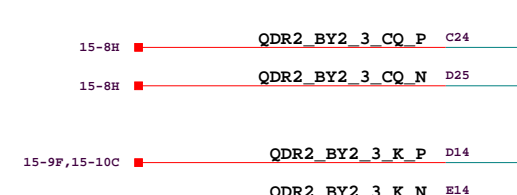
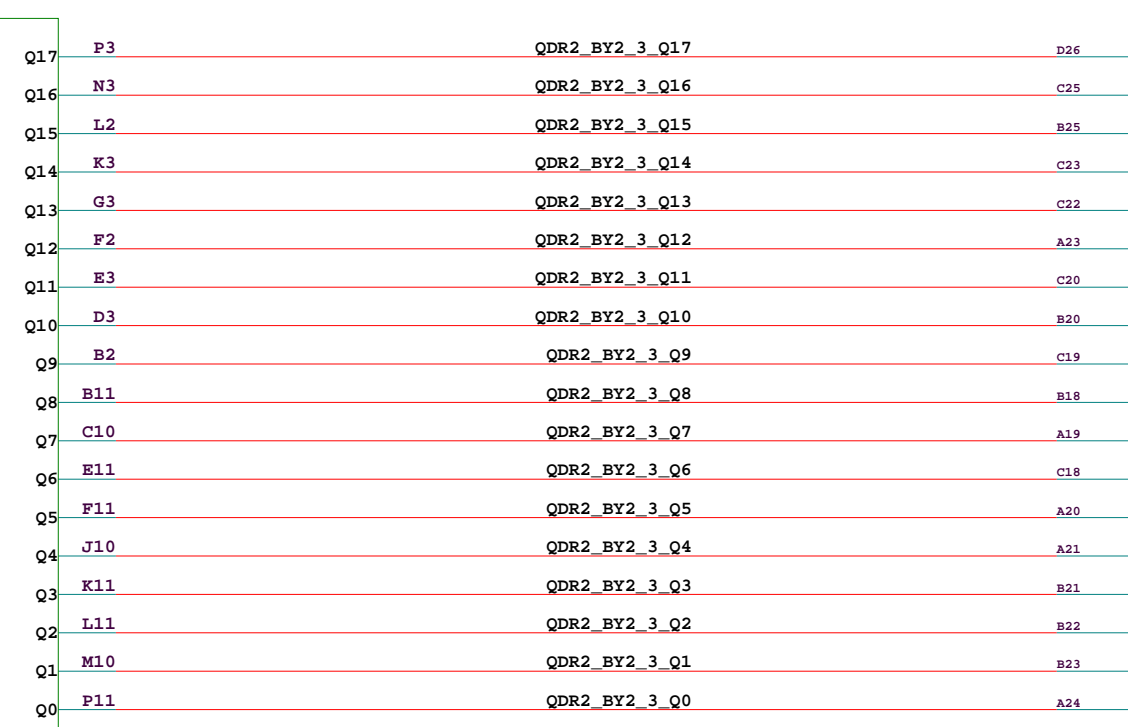
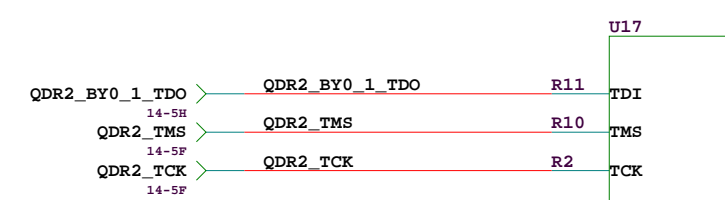
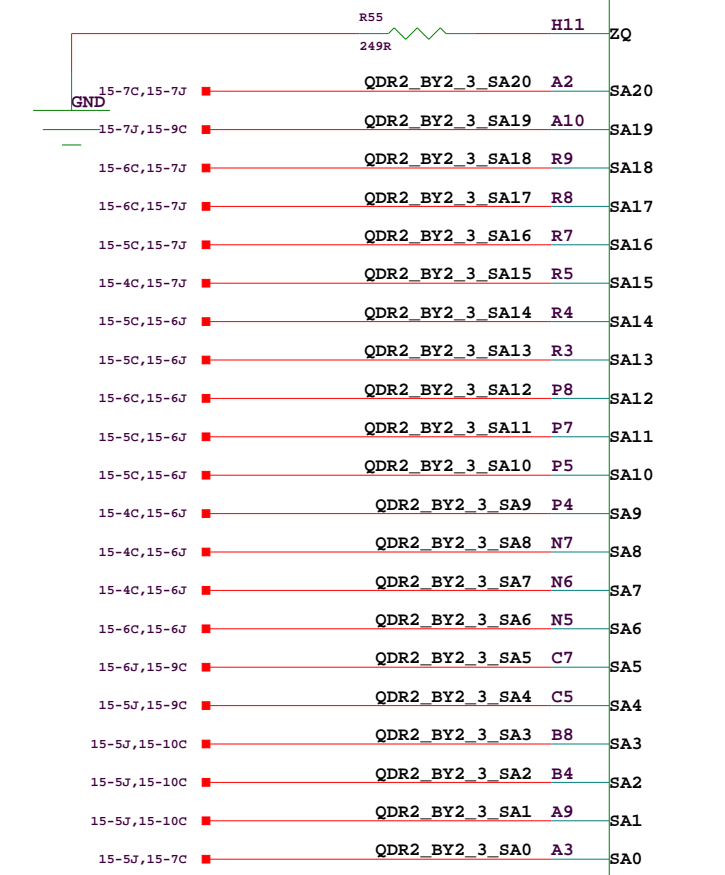
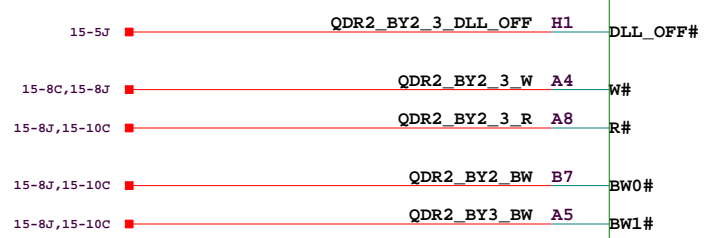
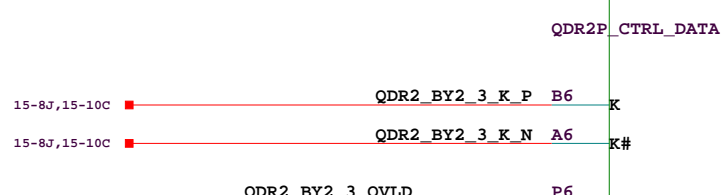
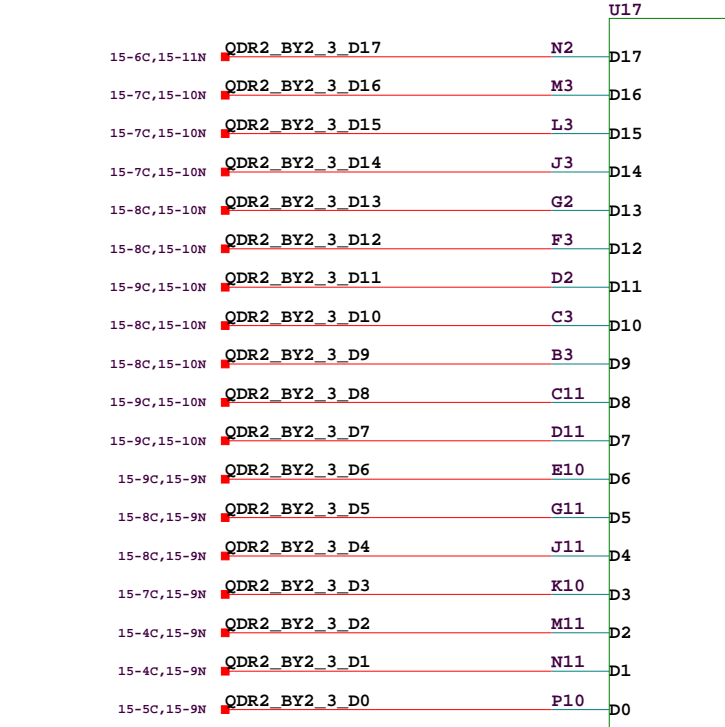
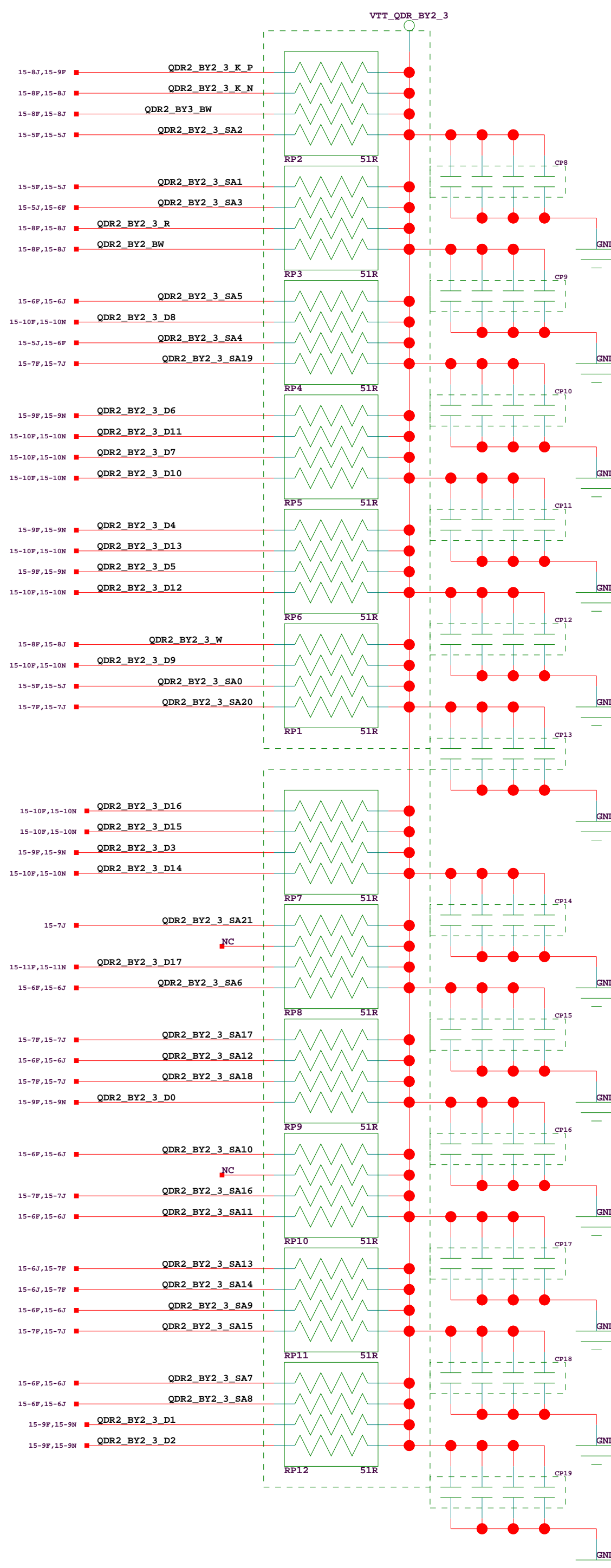


ROACH/iBOE2		ROACH_GPIO_MISC	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOONERO BauerKAT, CAPE TOWN http://casper.berkeley.edu/		DOC NO: NRF-ADM-XXX-BD-0001	REVISION: A
		DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW	
		NAME: F KAPP	APP:
		CHECKED: E BAUERMEISTER	SHEET
6-10-2008 15:47		13 OF 25	
PATH	PATH		



GND and PGND (Power GND) should be isolated, with a single point connection between them.

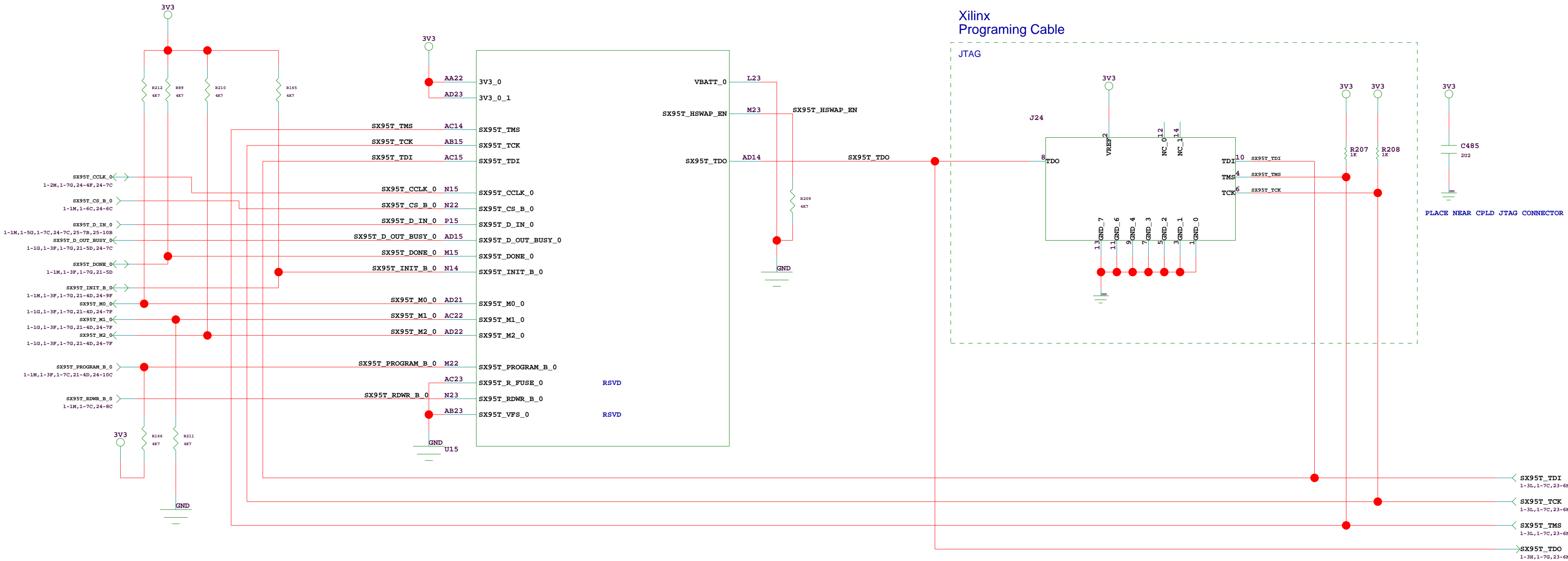
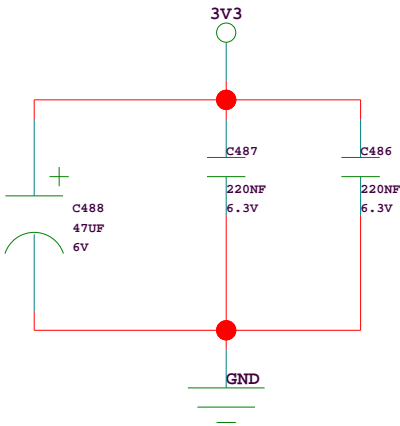
ROACH/iBOB2		ROACH_QDR2P_BY0_1	
COLLABORATORS: CASPER GROUP, UC BERKELEY WRAJ, GCOBORG meerCAT, CAPE TOWN		DOC NO: NRP-ADM-XXX-SD-0001	REVISION A
http://casper.berkeley.edu/		DESCRIPTION: SECOND/FORMAL OPEN ARCHITECTURE IM	
6-10-2008_15:47		NAME: F KAPP	APPR:
PATH	PATH	WORKED: E BAUMEISTER	SHEET 14 OF 2



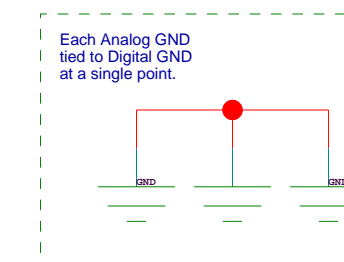
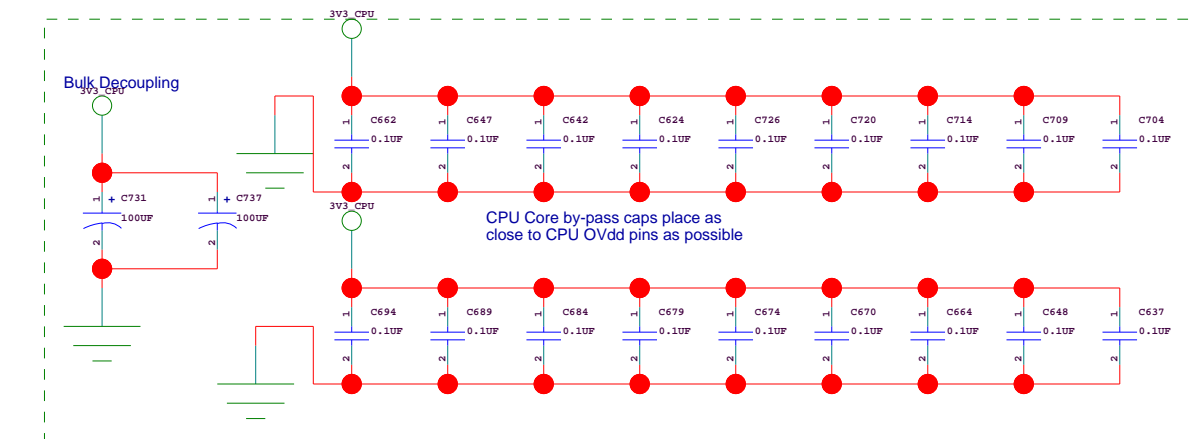
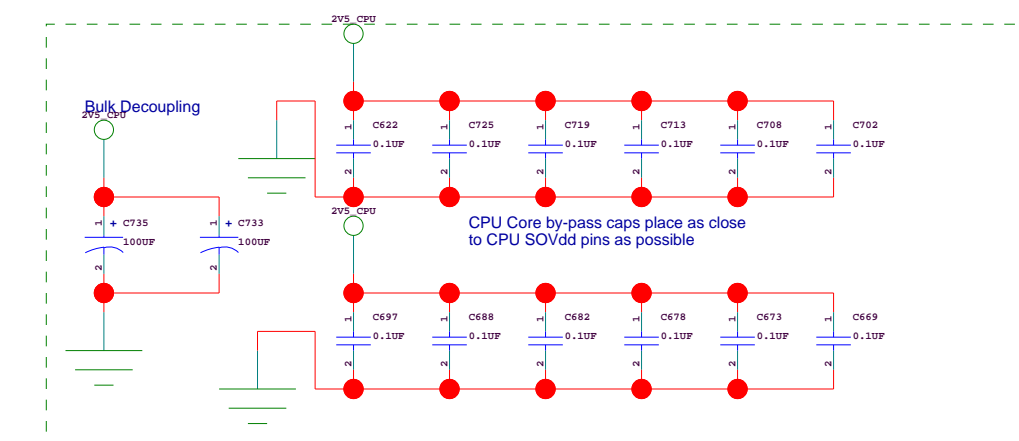
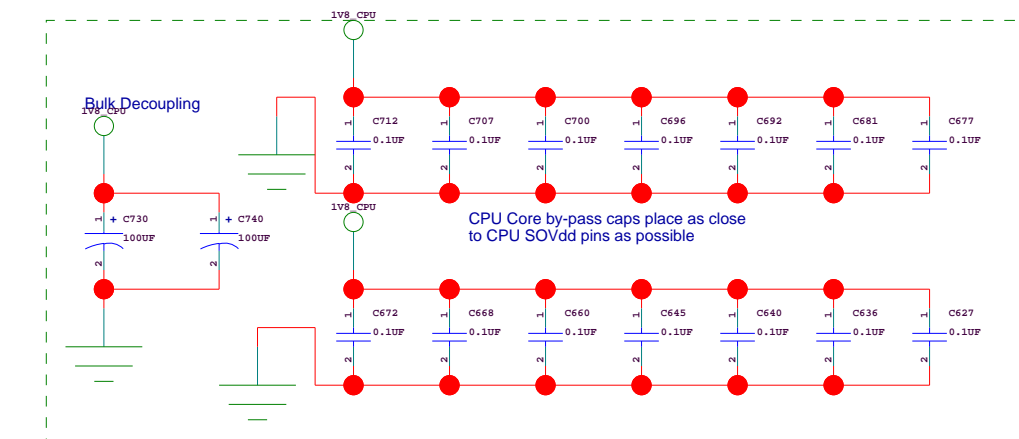
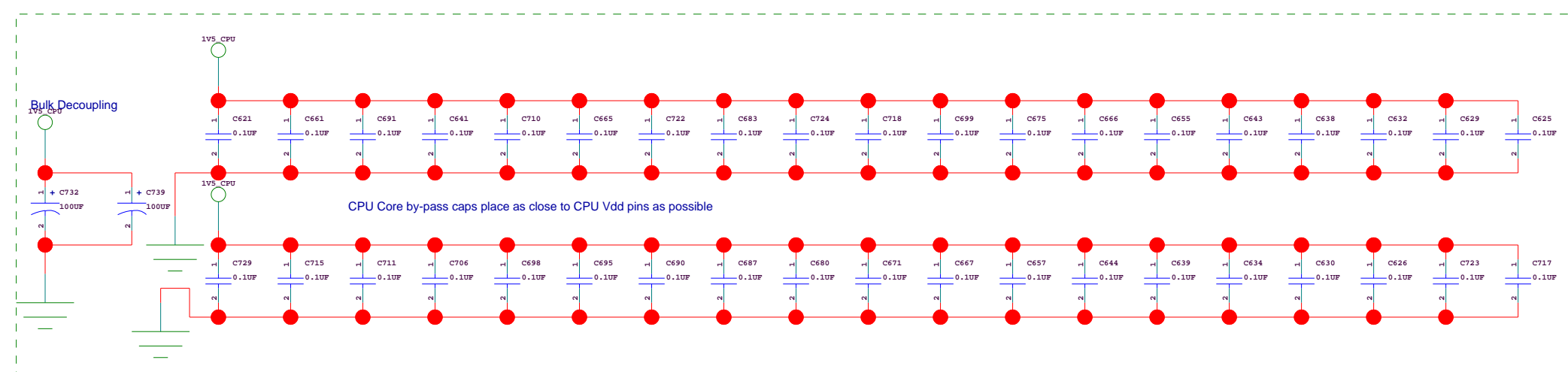
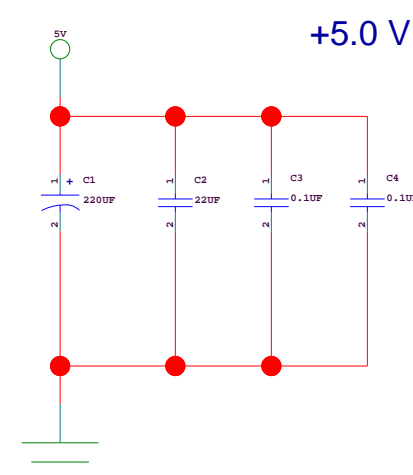
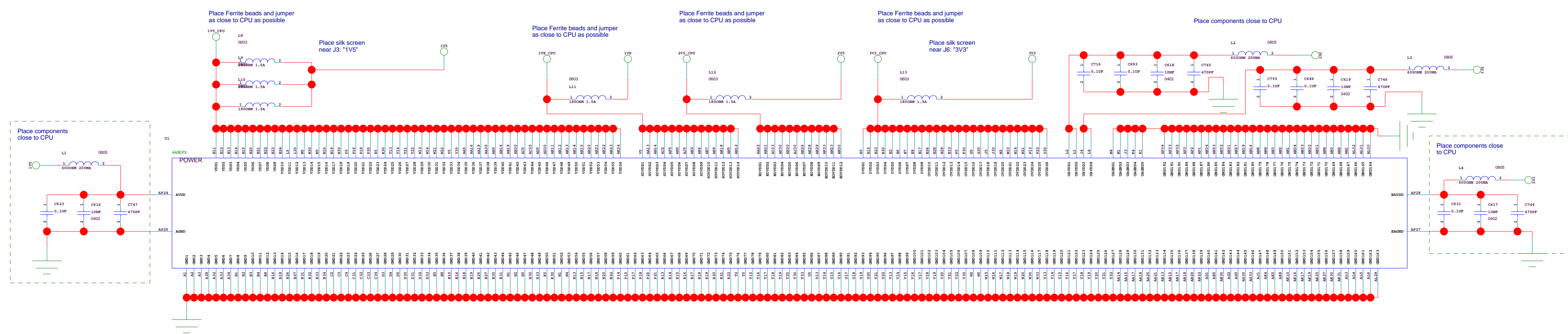
ROACH/iBOB2		ROACH_QDR2P_BY2_B3	
COLLABORATORS: CAPSER GROUP, UC BERKELEY WANG, SCORROED mme@CAT, CAPE TOWN http://capers.berkeley.edu/		DOC NO: NRP-ADM-XXX-SD-0001 DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW	REVISION: A
6-10-2008 15:47 PATH PATH		NAME: F KAPP SECRET: E BAUMEISTER	APPV: SHEET

TBD

VALID CONFIGURATION MODES			
Configuration Mode	M[2:0]	Bus Width	CCLK Direction
Master Serial	000	1	Output
Master SPI	001	1	Output
Master BPI-Up	010	8, 16	Output
Master BPI-Down	011	8, 16	Output
Master SelectMAP	100	8, 16	Output
JTAG	101	1	Input (TCK)
Slave SelectMAP	110	8, 16, 32	Input
Slave Serial	111	1	Input



ROACH/iBOB2		ROACH_CONFIG	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	6-10-2008_15:47	DRAWN: F KAPP	APPR:
	PATH	CHECKED: E BAUERMEISTER	SHEET 16 OF 25

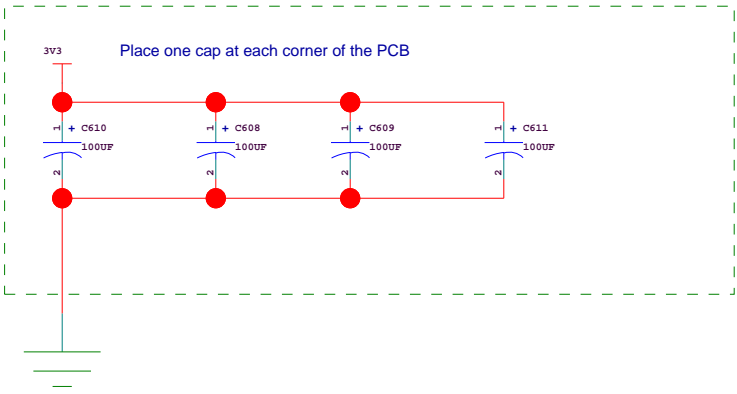


REMOVED 1.8V AND 1.5V REGULATORS, CONNECTED TO V5 RAILS

REMOVED VTT AND VREF - INCLUDED ON ROACH_PPC_DDR2

ROACH/iBOB2		ROACH_PPC_POWER_1	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY MESA, GORDON MESAET, CAPE TOWN		NYX-ADM-XXX-ID-0001	A
DESCRIPTION		RECOMFORTABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		ISSUE:	
6-10-2008_15:47		F KAPP	
PATH PATH		E BAUERMEISTER	SHEET
			17 OF 2

	A	B	C	D	E	F	G	H	J	K	L	M
7												
6			REMOVED 3V3 GENERATION									
5												
4		REMOVED +12V GENERATION			REMOVED -12V GENERATION							
3												
2												
1		REMOVED +1V GENERATION			REMOVED +2V5 GENERATION							
0												
	A	B	C	D	E	F	G	H	J	K	L	M



ROACH/iBOB2	ROACH_PPC_POWER_2	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001	REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW	
	DRAWN: 6-10-2008_15:47 F KAPP	APPR: E BAUERMEISTER
PATH	PATH	SHEET 18 OF 25

