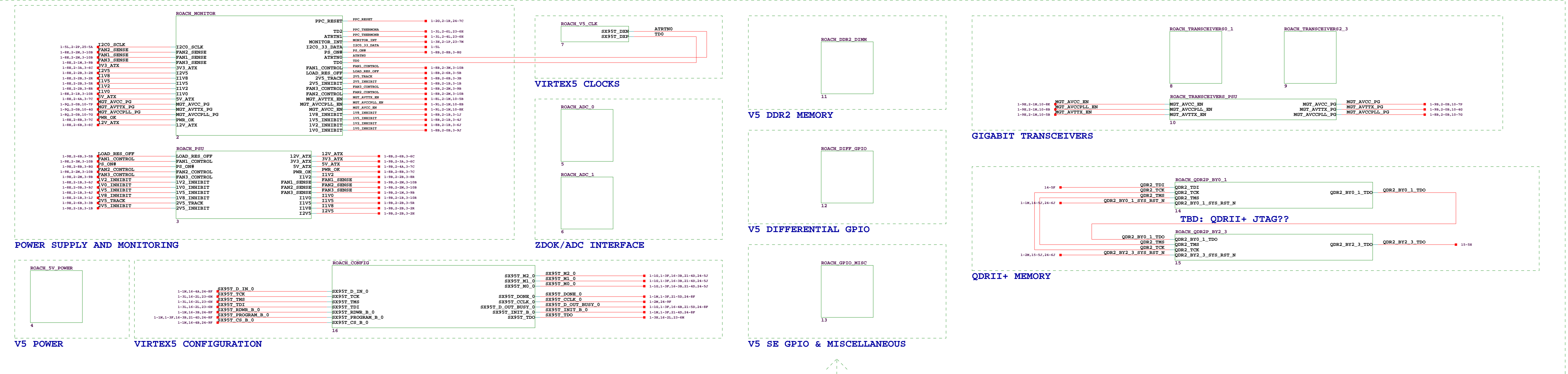
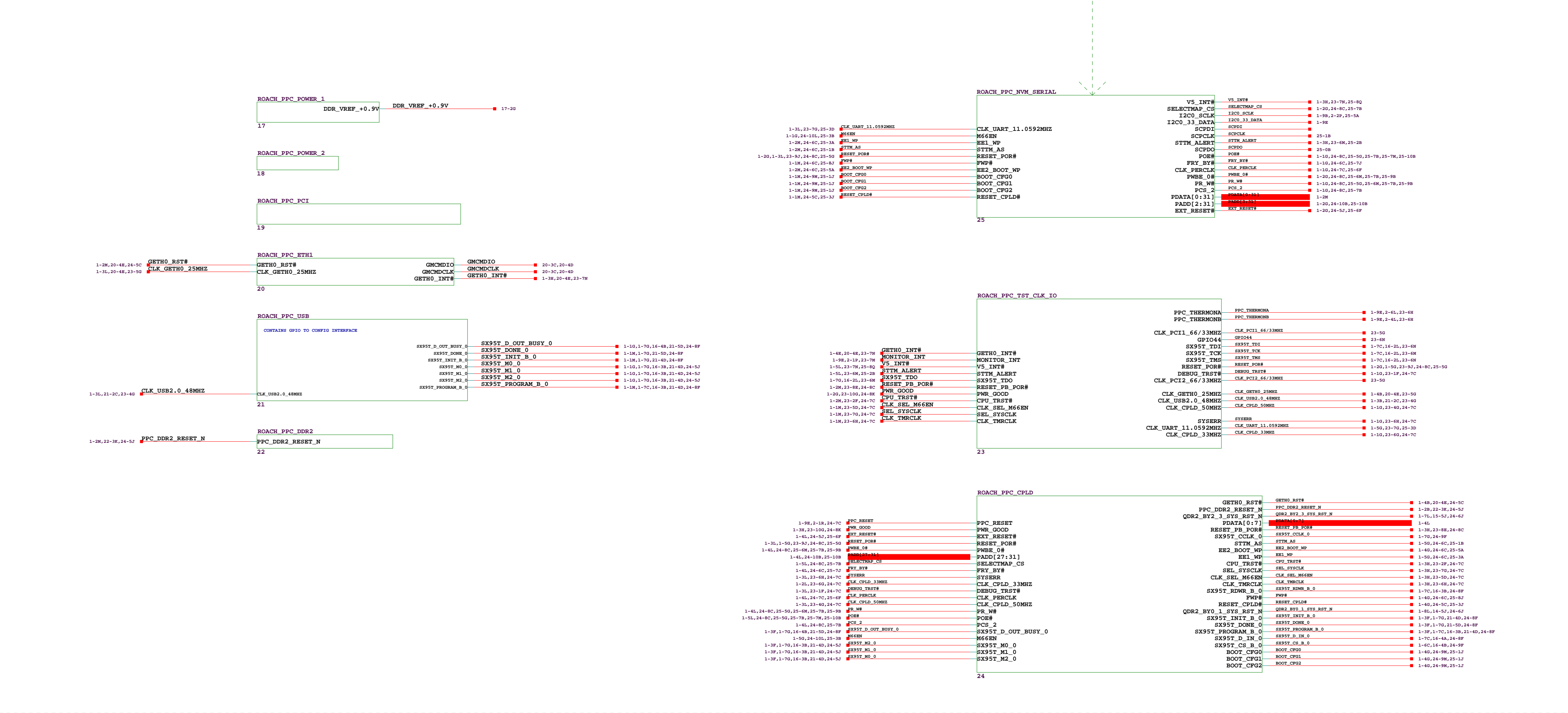


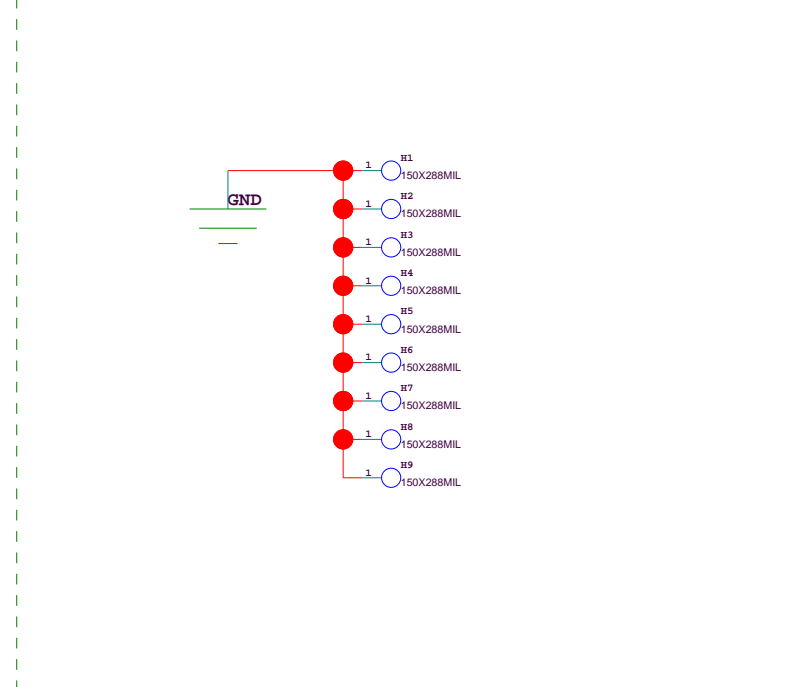
VIRTEX5



PPC



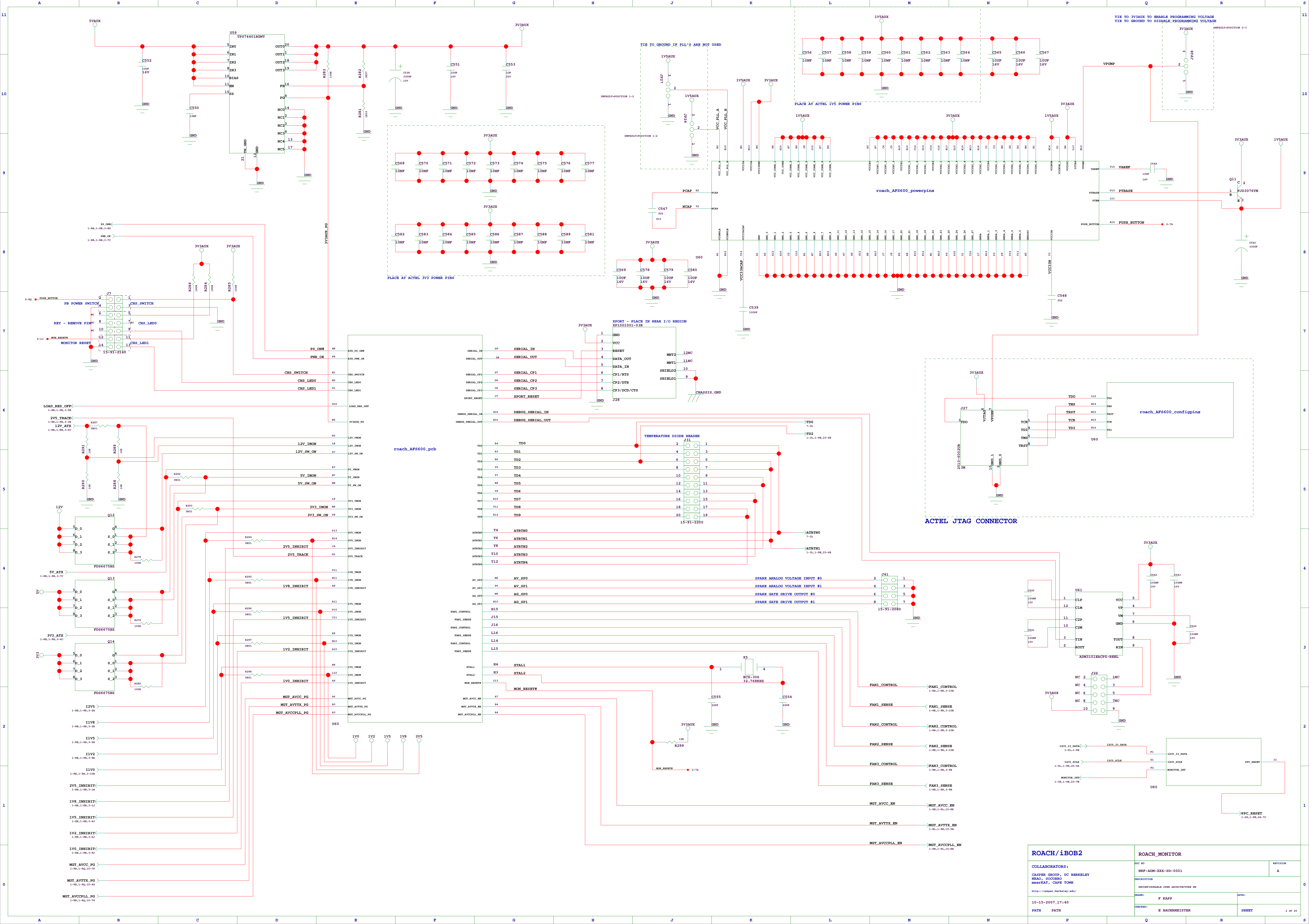
MECHANICAL



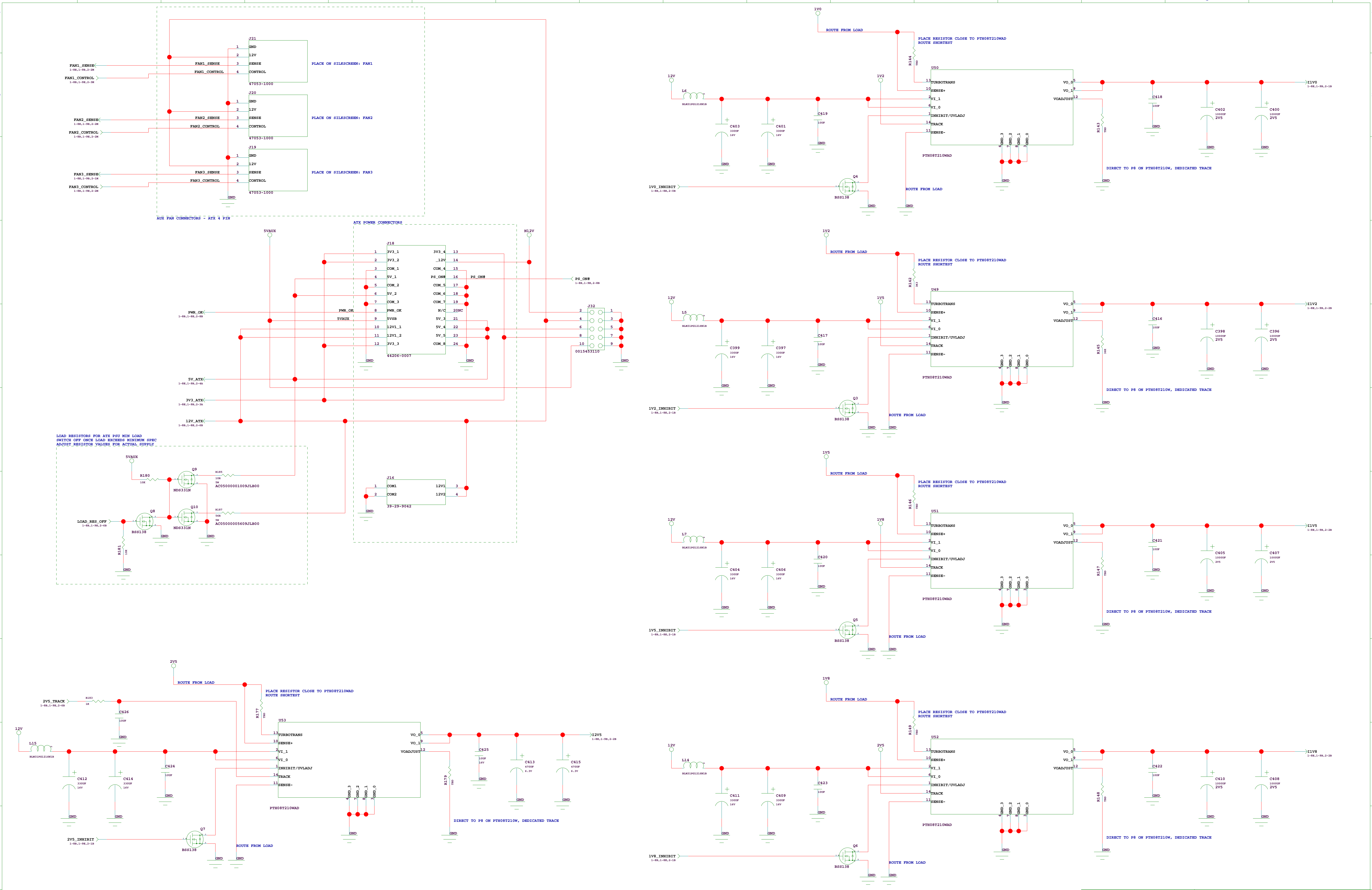
CONTRIBUTORS

- STEFANO BARNABERGER
- STEVE CHAN
- FRANCIS KAPP
- ALAN LARSON
- OSWALD RECK
- KIRK RUTENFR
- WENDE WU
- DAN WERTSCHER

ROACH/iBOB2				ROACH_TOP			
COLLABORATORS:				DOC NO			
CASPER GROUP, UC BERKELEY				NRF-ADM-XXX-SD-0001			
NRAO, SOONERO				A			
RECONFIGURABLE OPEN ARCHITECTURE HW				DESCRIPTION			
http://casper.lawley.edu/				F KAPP			
10-15-2007_1740				R BAUERMEISTER			
PATH				SHEET			
1 OF 25							

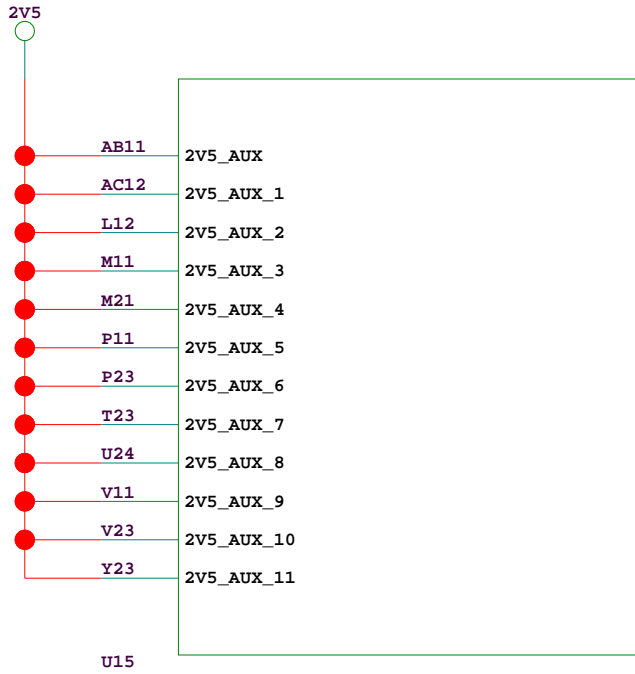
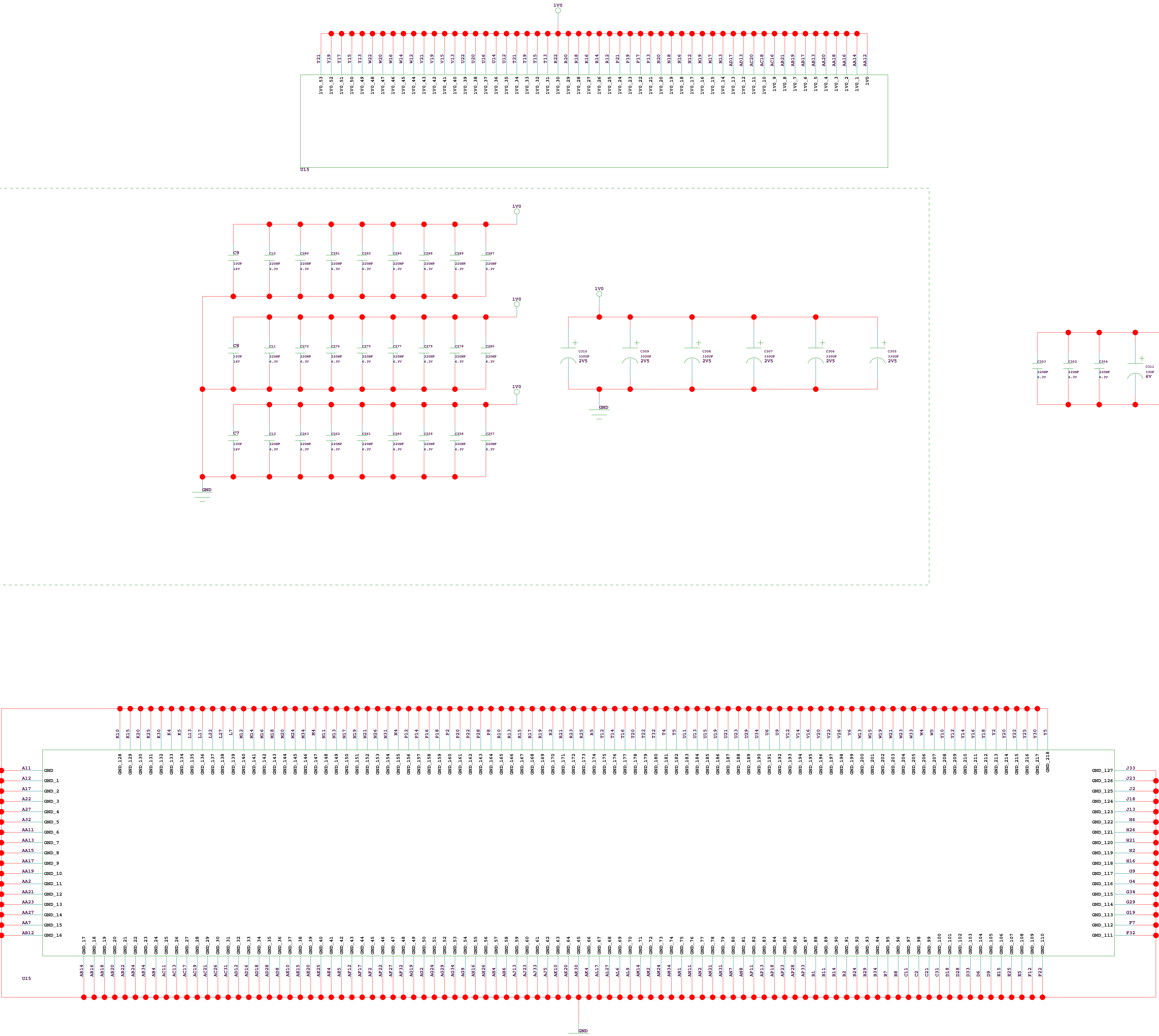




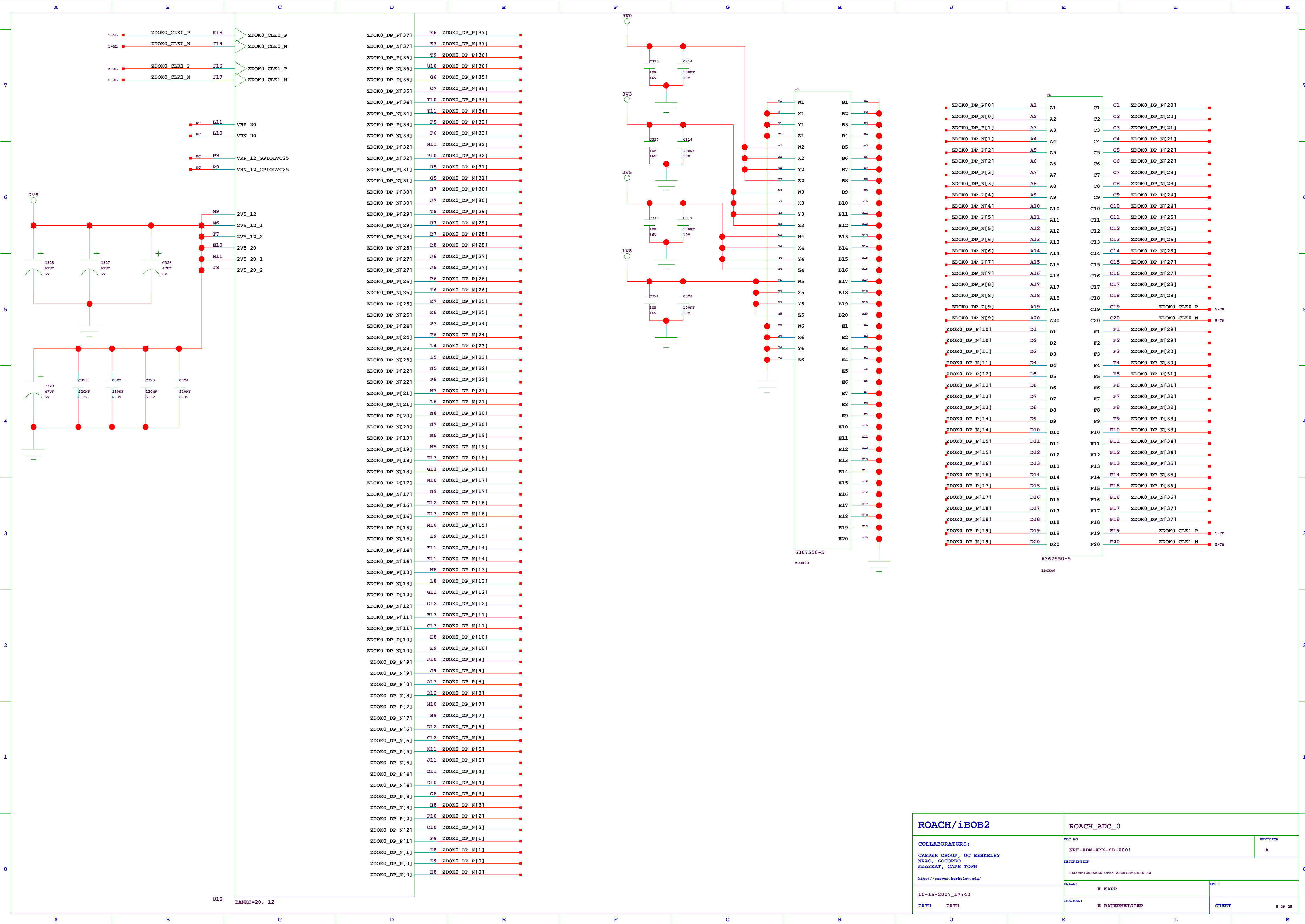


ADJUSTMENT AND T2 RESISTOR VALUES TBD  
SOURCE VOLTAGES TO BE SELECTED

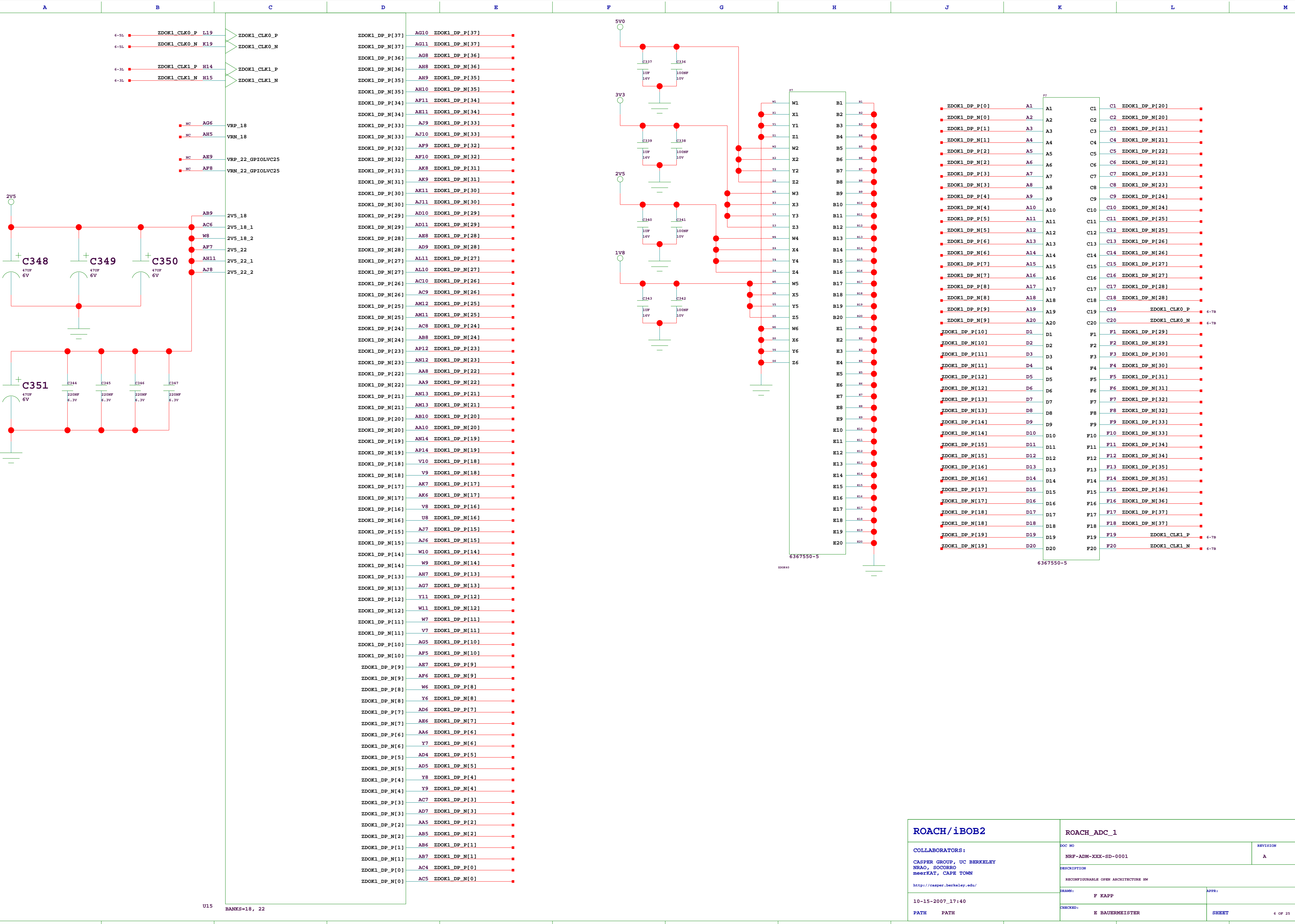
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COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-SD-0001	A
NRAO, SOONERO		DESCRIPTION	
MesaCAT, CAPE TOWN		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		DRAWN:	APPD:
10-15-2007_17:40		F KAPP	
PATH	PATH	CHECKED:	SHEET
		R BAUERMISTE	



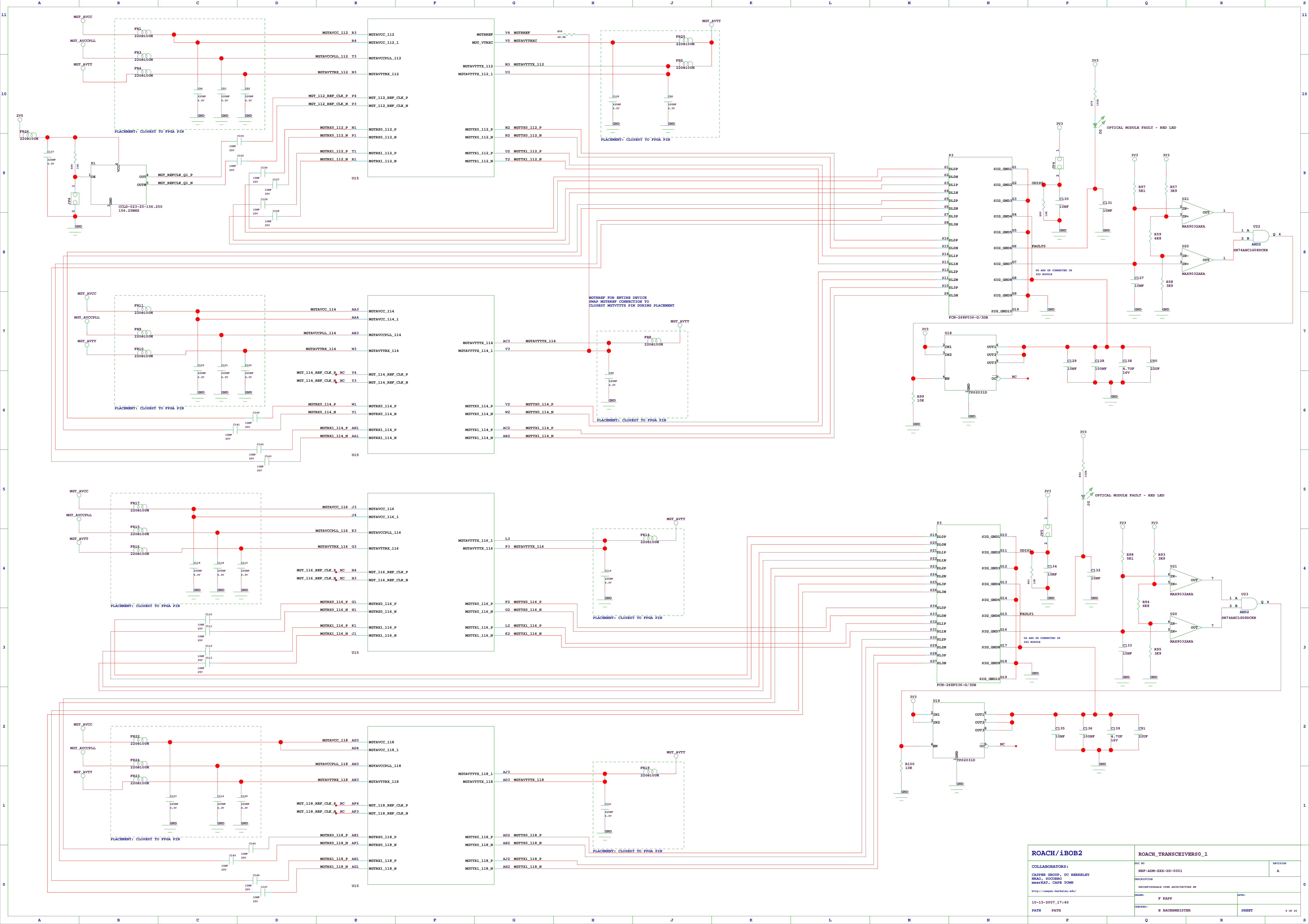
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COLLABORATORS:			DOC NO	REVISION
CASPER GROUP, UC BERKELEY NRAO, SOONRO BHEERAT, CAPE TOWN			NRF-ADM-XXX-SD-0001	A
DESCRIPTION			RECONFIGURABLE OPEN ARCHITECTURE HW	
DRAWN:			F KAPP	UPPER
10-15-2007_17:40			10-15-2007_17:40	
CHECKED:			R BAUERMBLOSTER	SHEET
PATH			4 OF 25	



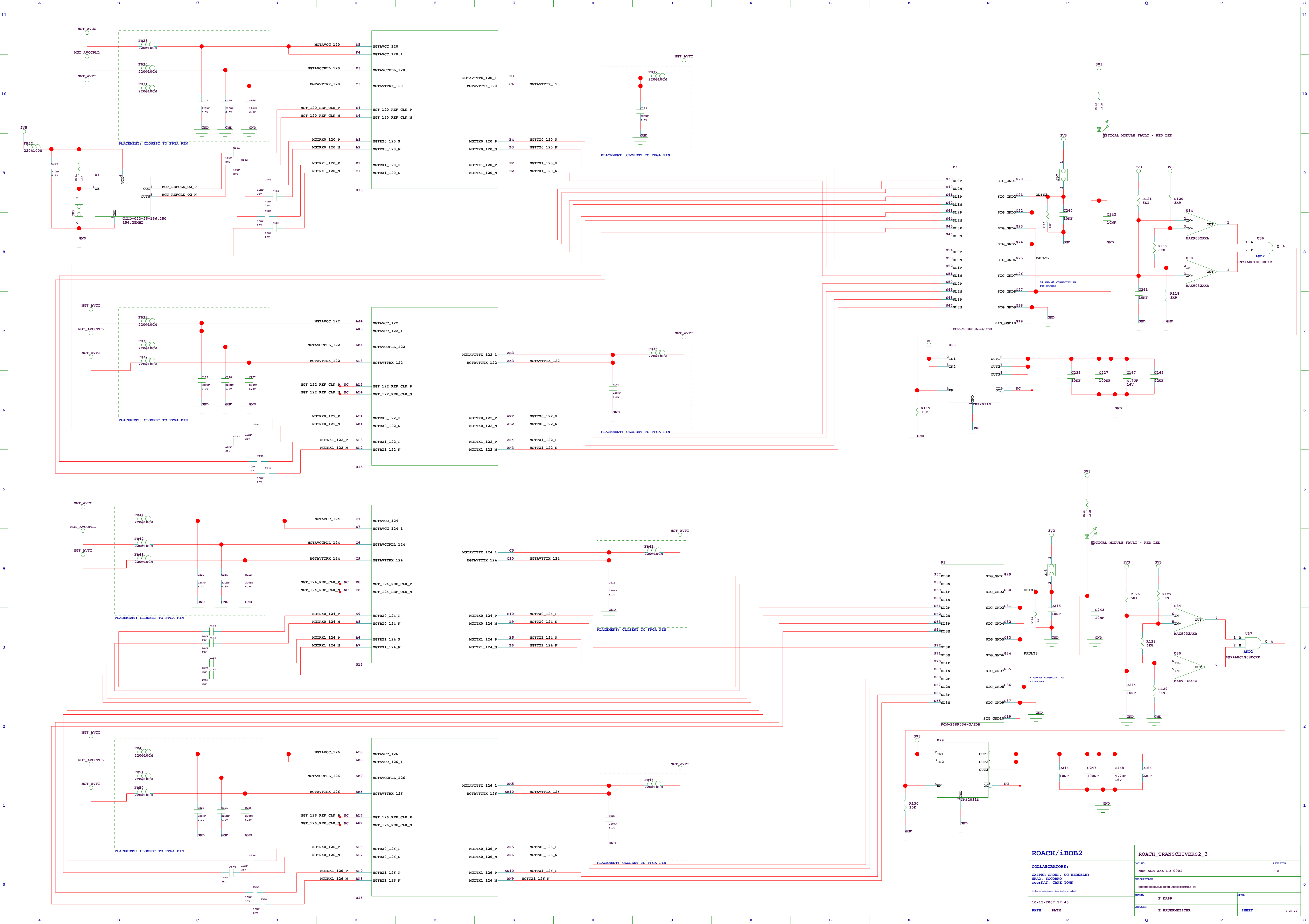


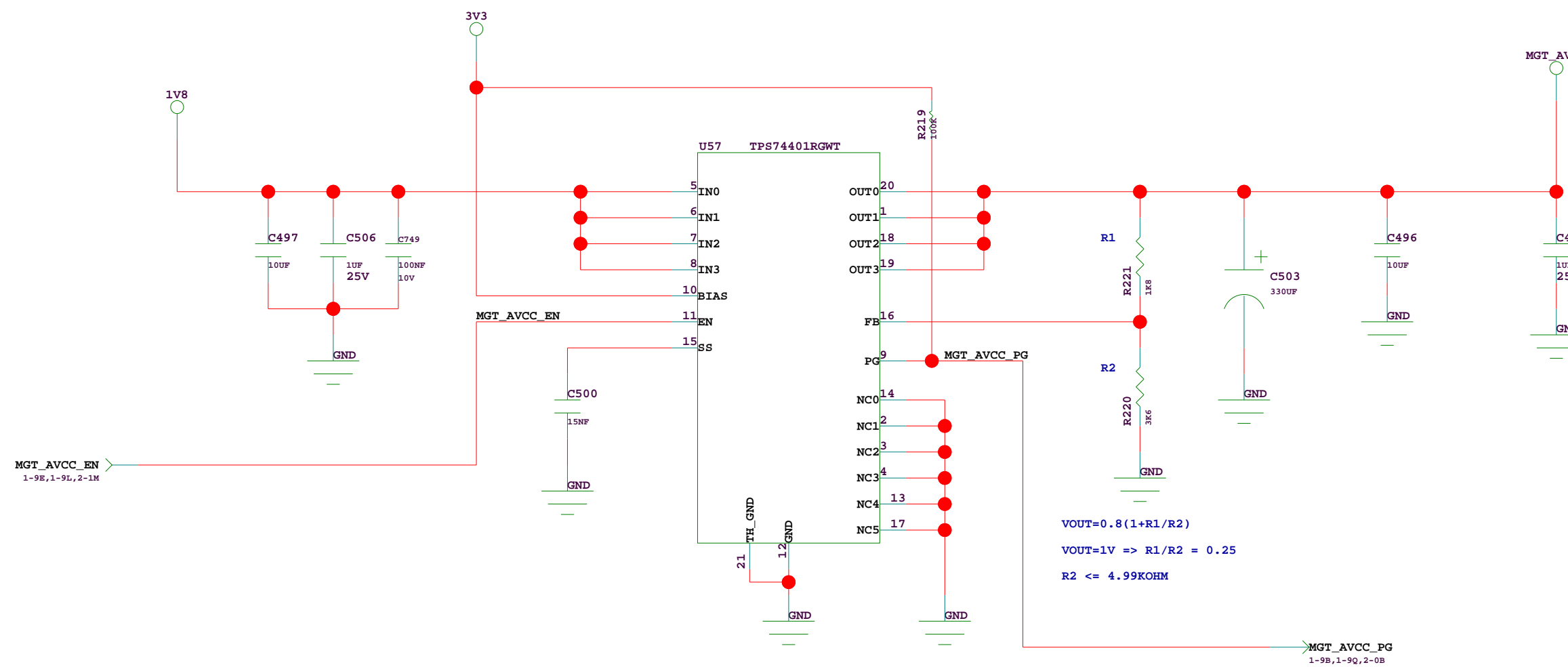
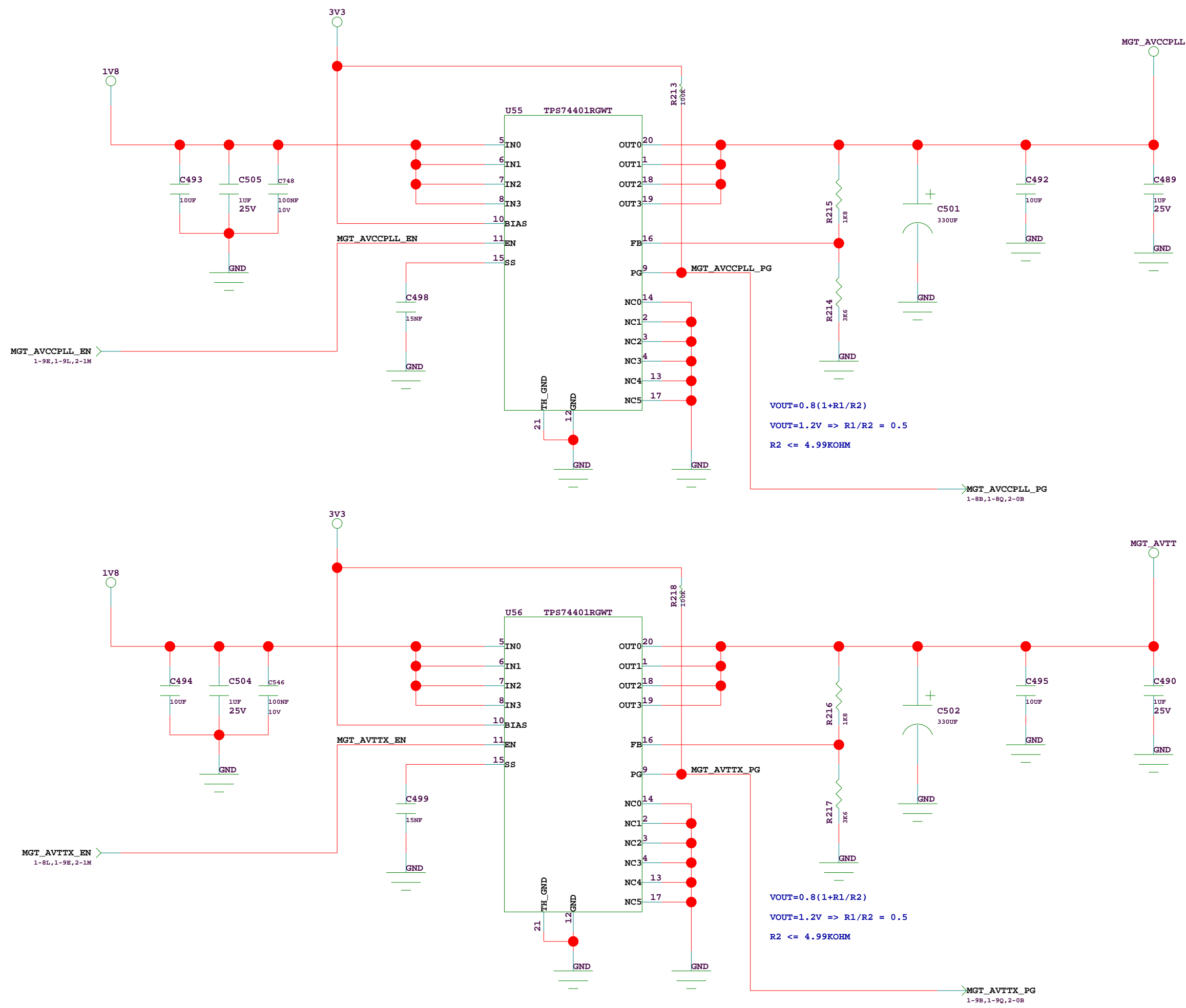




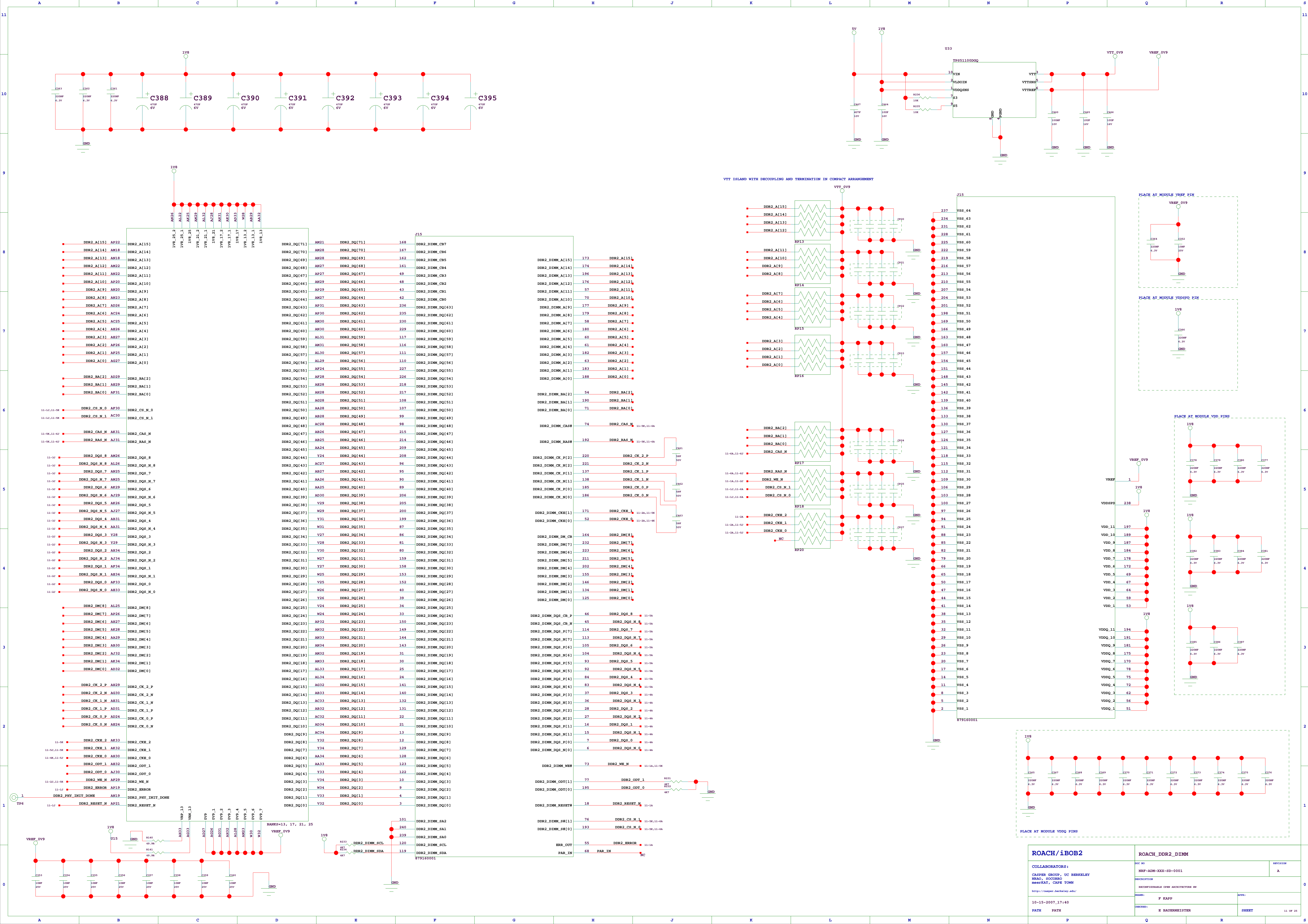




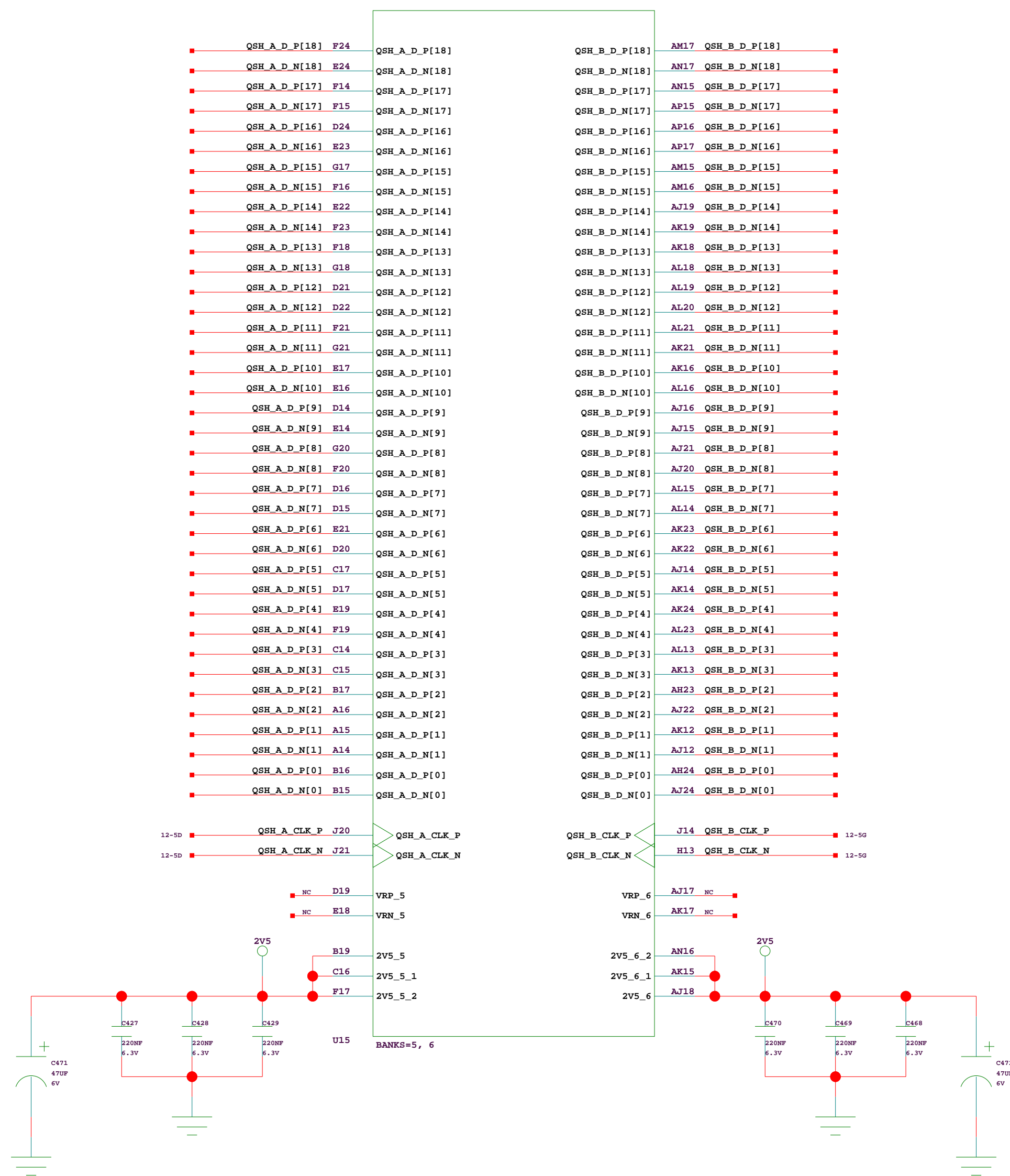
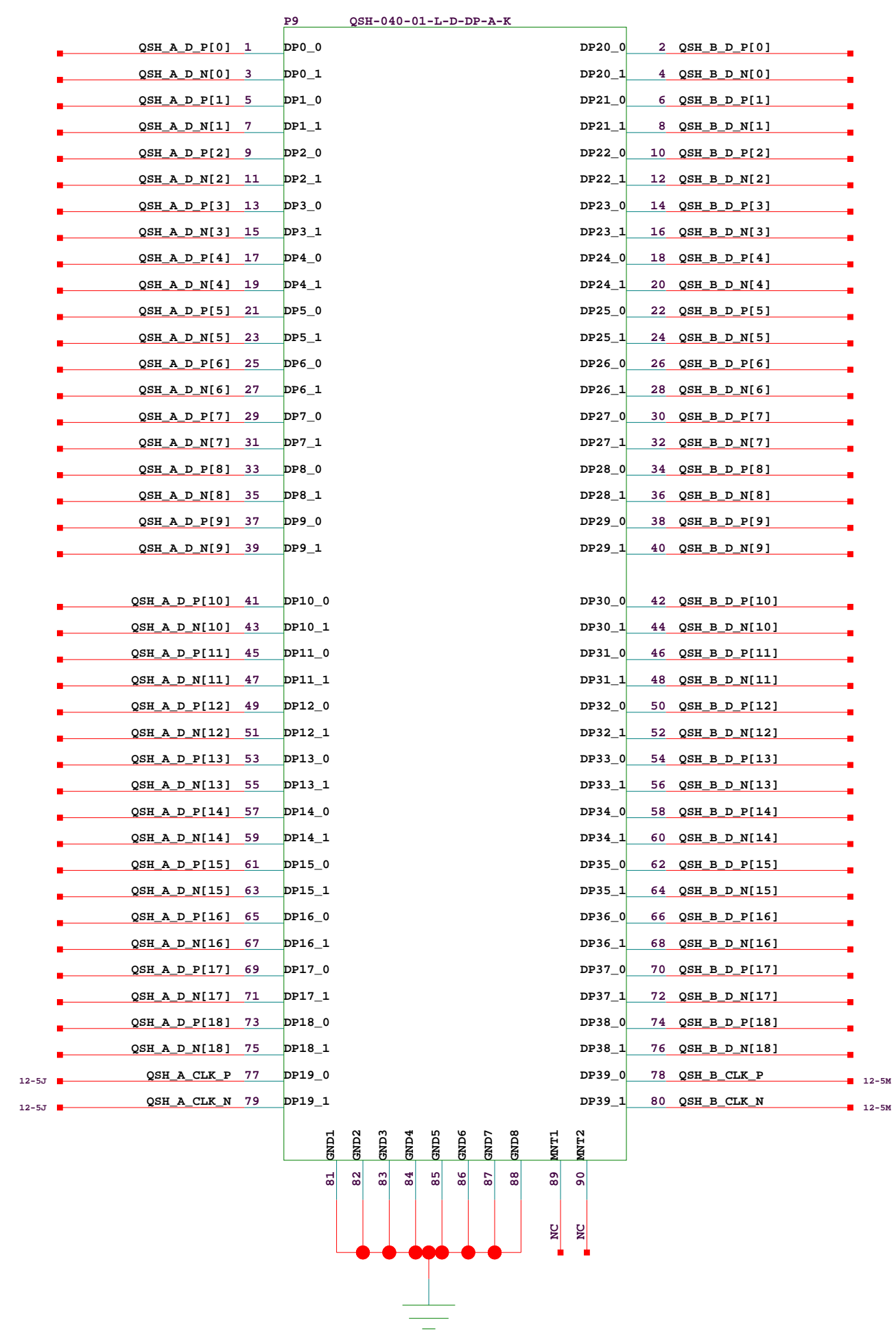




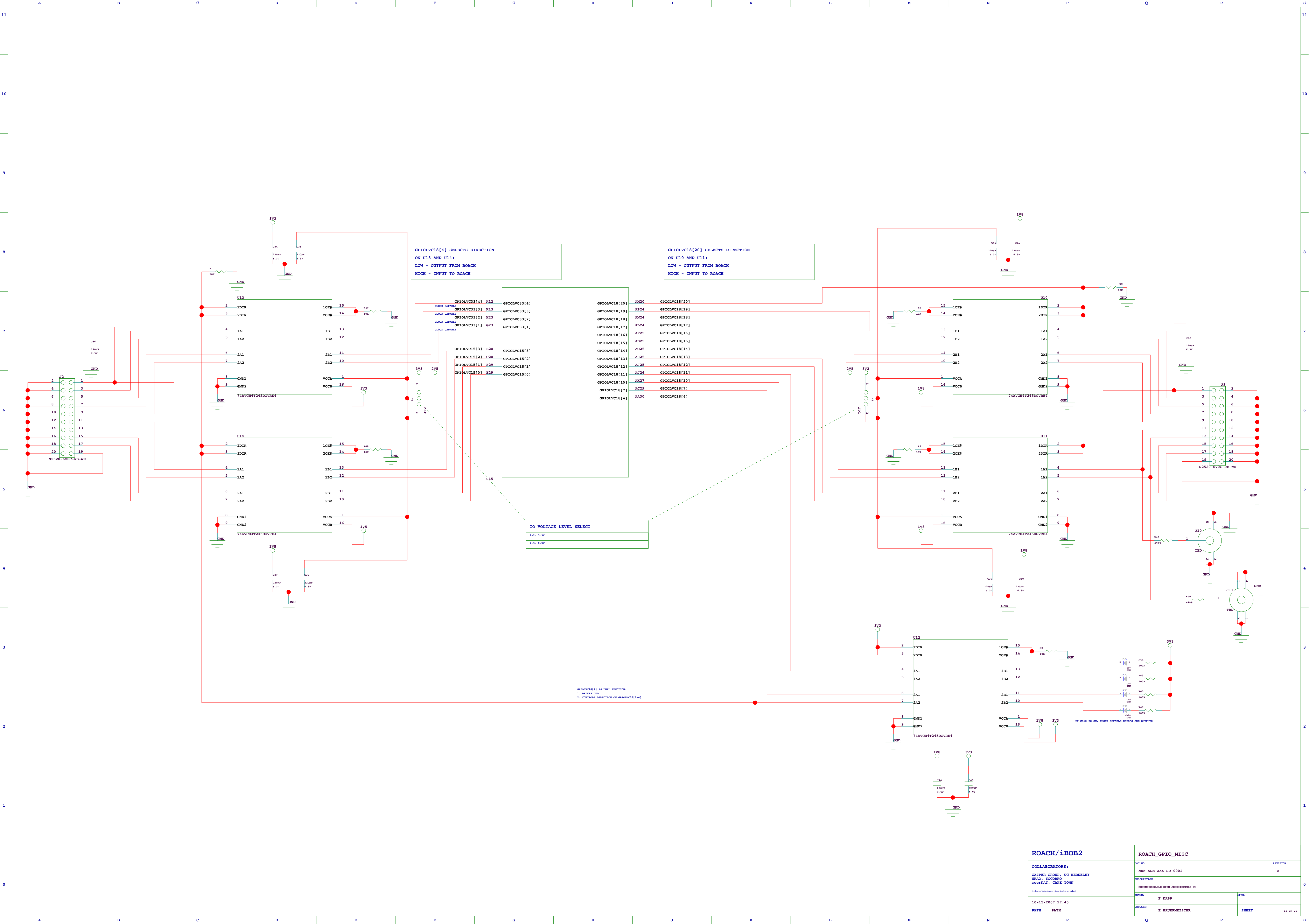
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COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOONERO BAAKAT, CAPE TOWN <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>		DOC NO: NRF-ADM-XXX-BD-0001  DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW	REVISION: A
10-15-2007_17:40		DRAM: F KAPP	APP:
PATH PATH		CHECKED: E BAUERMEISTER	SHEET 10 OF 25



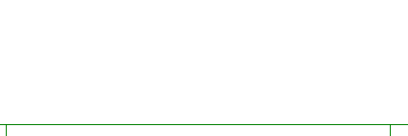
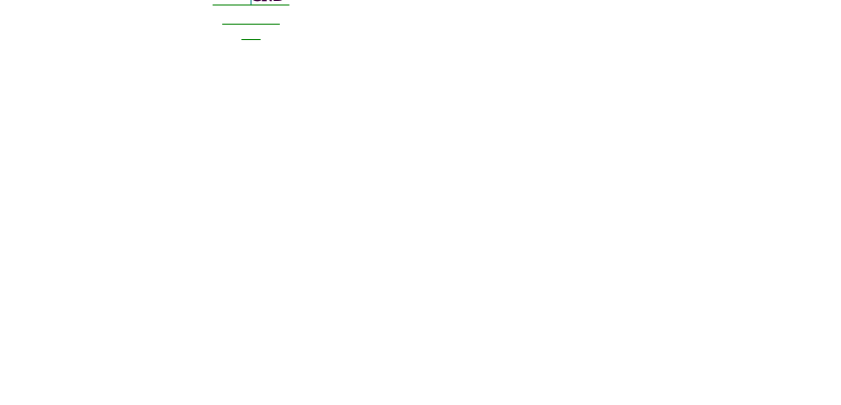
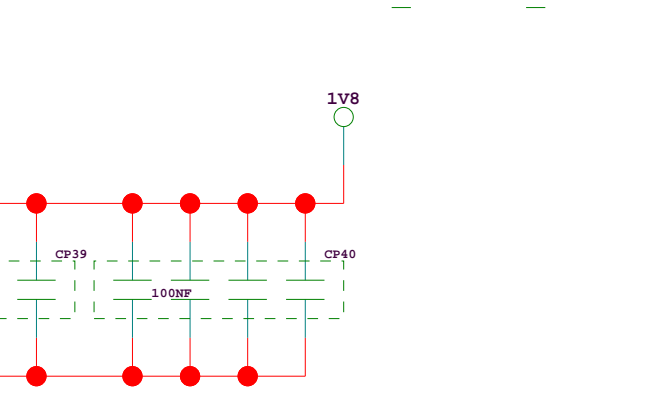
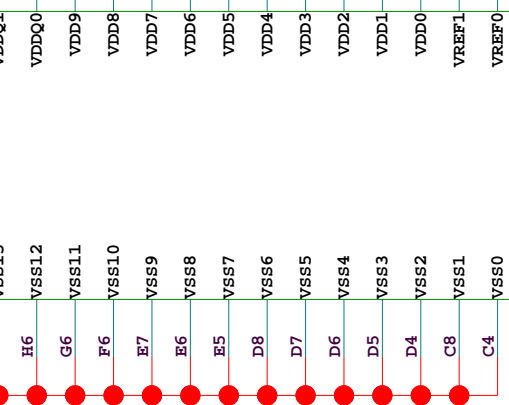
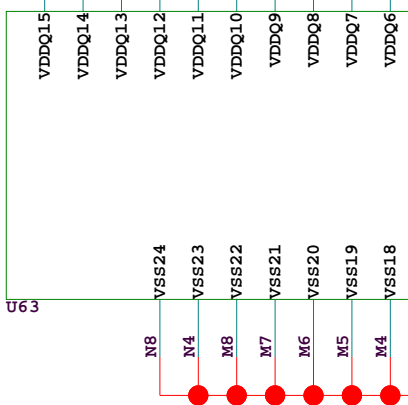
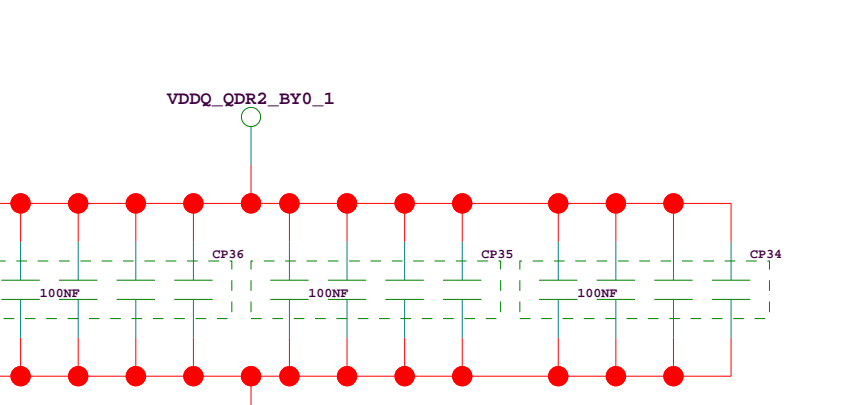
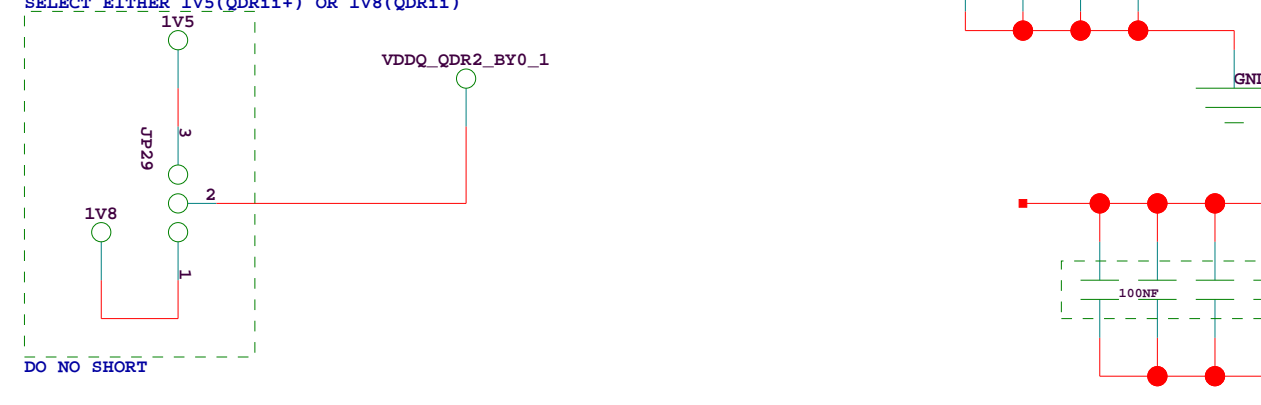
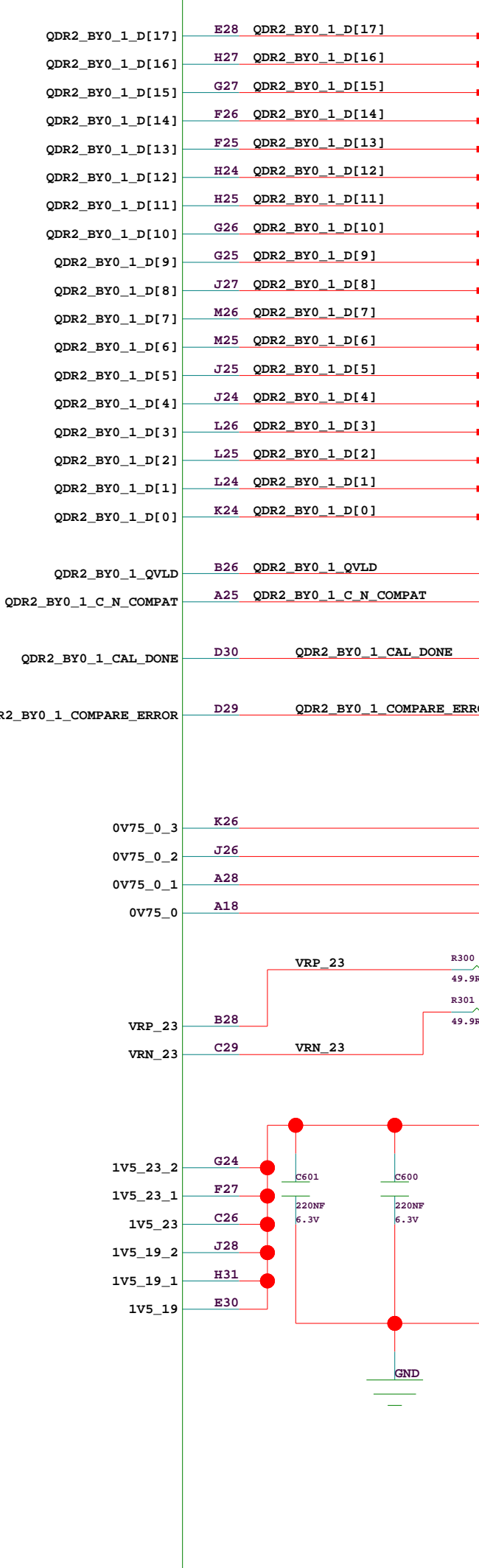
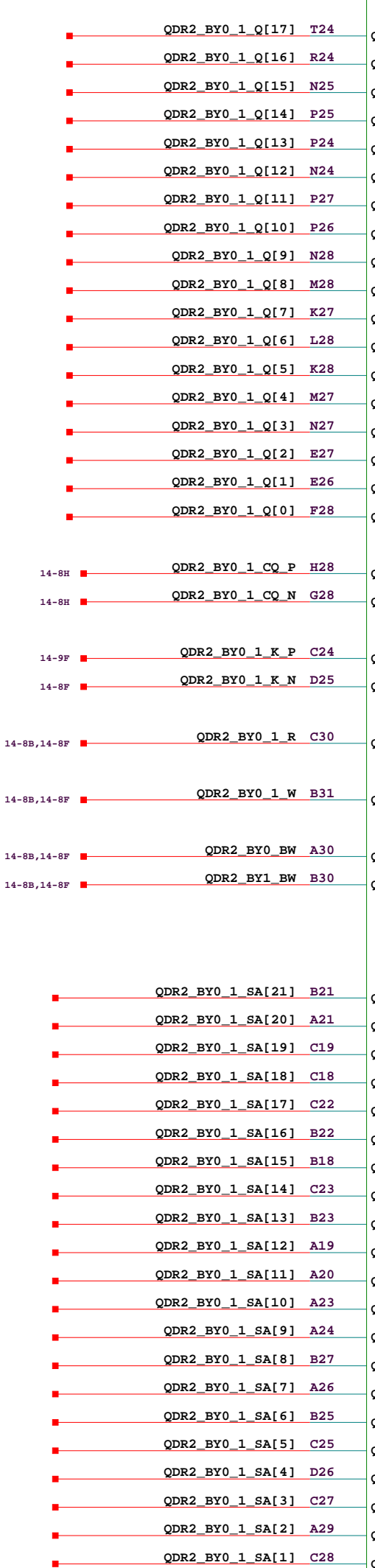
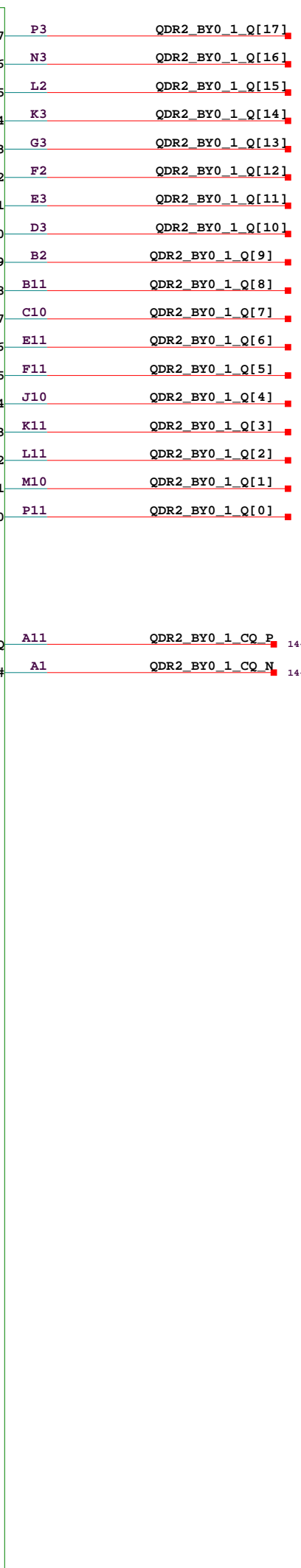
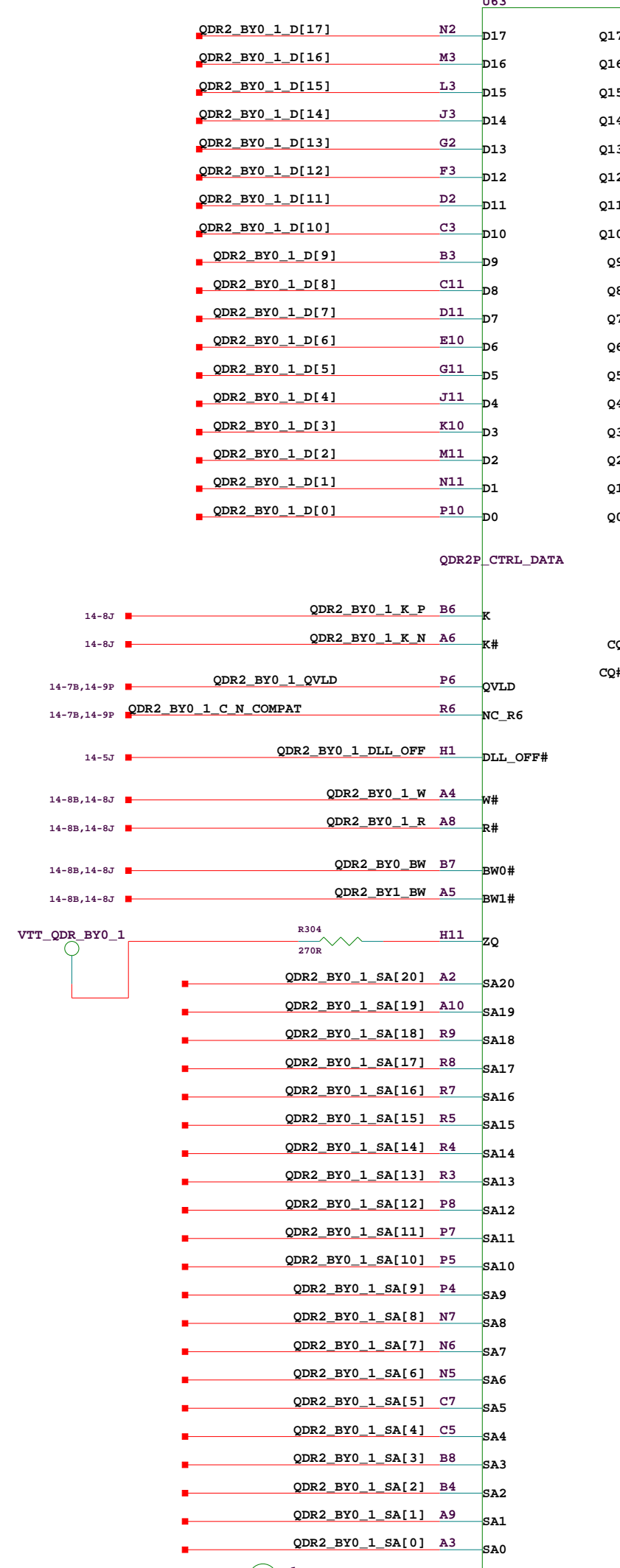
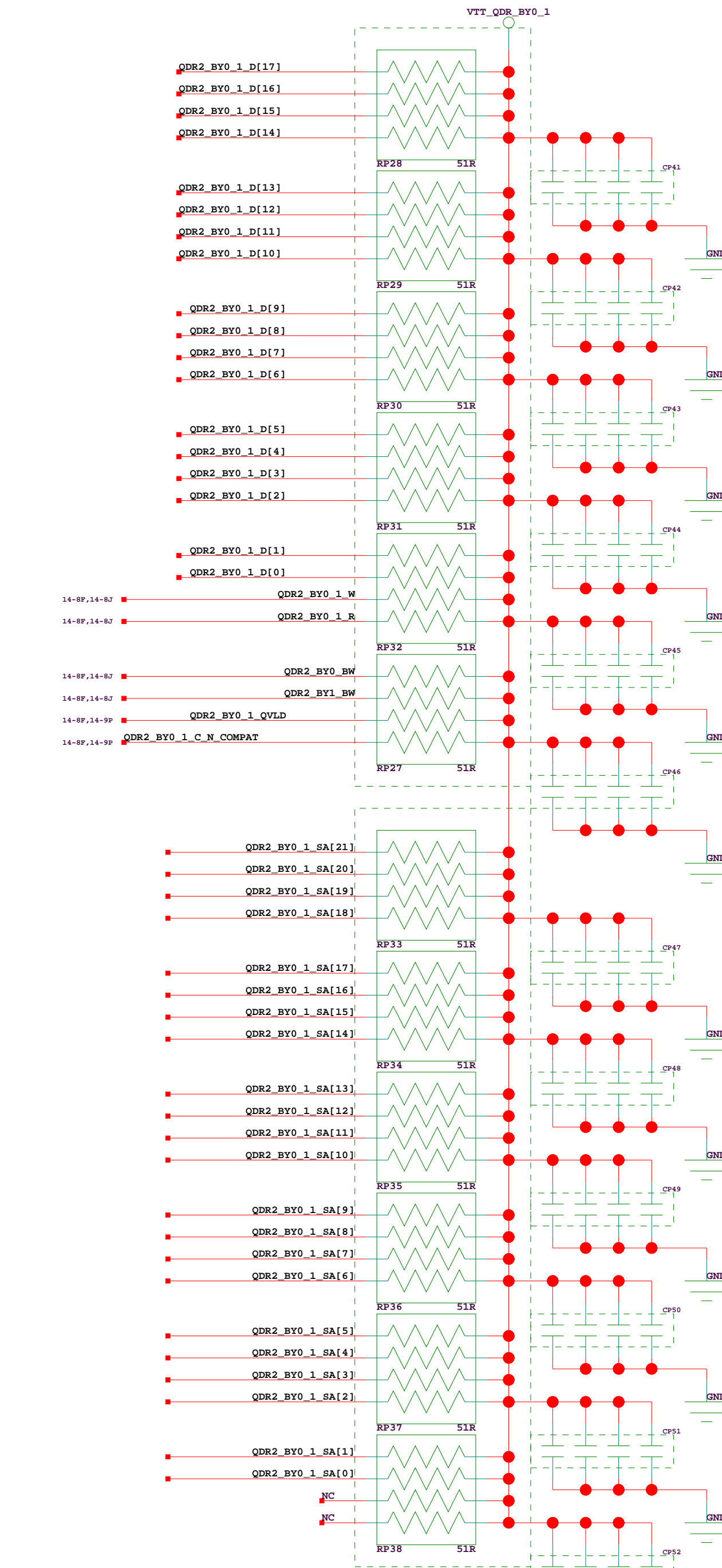




<b>ROACH/iBOB2</b>		<b>ROACH_DIFF_GPIO</b>	
COLLABORATORS:		DOC NO:	REVISION
CASPER GROUP, UC BERKELEY BRAD, SCOTT MACEKAT, CAPE TOWN		REF-ADM-XXX-ED-0001	A
<a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>		DESCRIPTION:	
10-15-2007-17:40		RECONSTRUCTIBLE OPEN ARCHITECTURE IN	
PATH PATH		NAME: F KAPP	APP:
		CHECKED: E BAUMHOLSTER	SHEET 12 OF 2

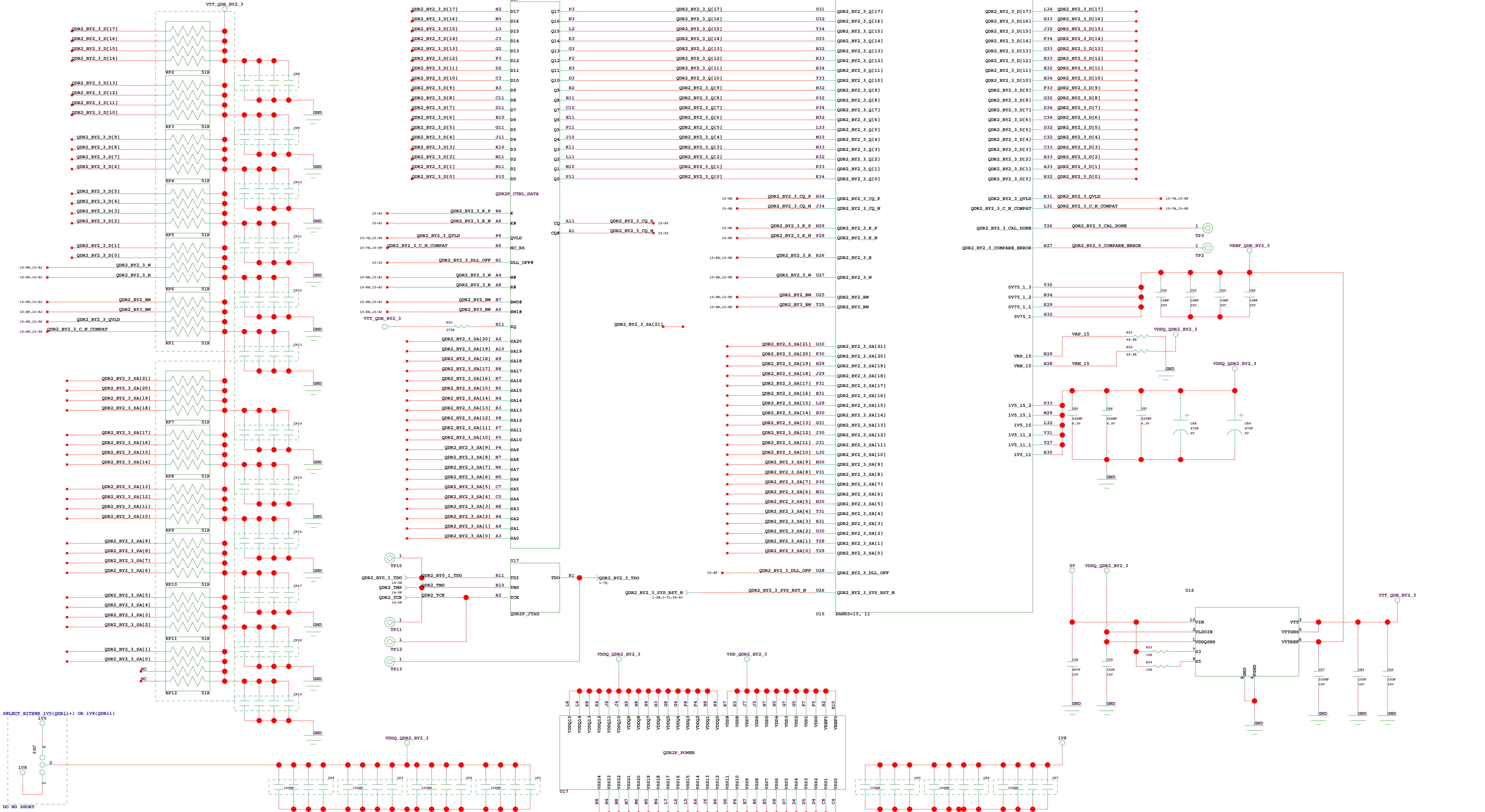


ROACH/iBOE2		ROACH_GPIO_MISC	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-BD-0001	A
DESCRIPTION			
NRAO, SOONERO			
RECONFIGURABLE OPEN ARCHITECTURE HW			
http://casper.berkeley.edu/		DESIGNER	APPR
10-15-2007_17:40		F KAPP	
PATH	PATH	R BAUERMISTROT	
		CHECKED	SHEET

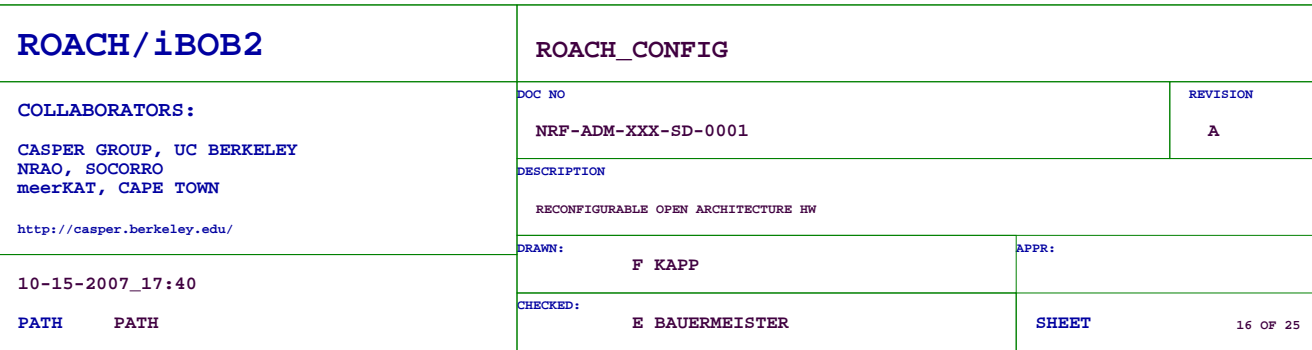


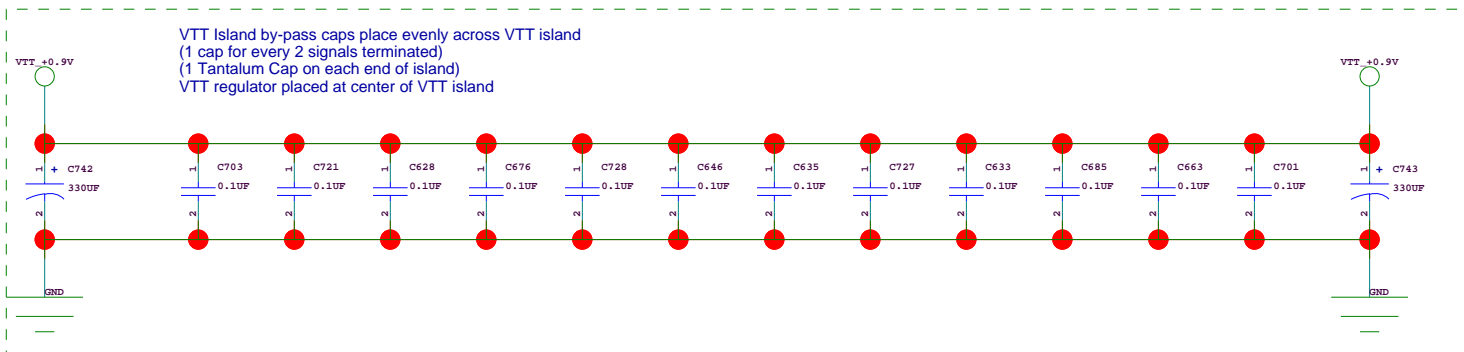
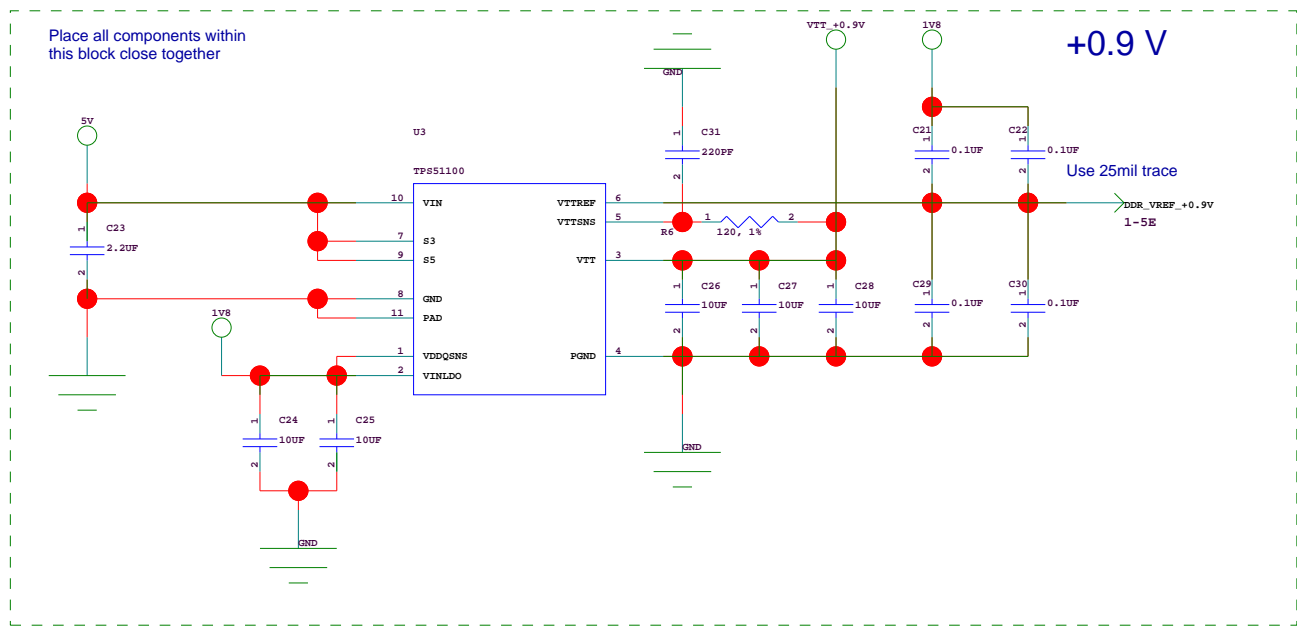
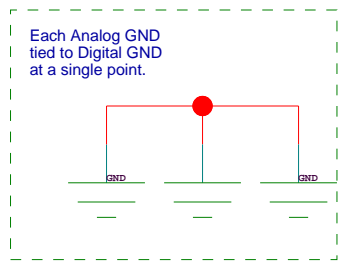
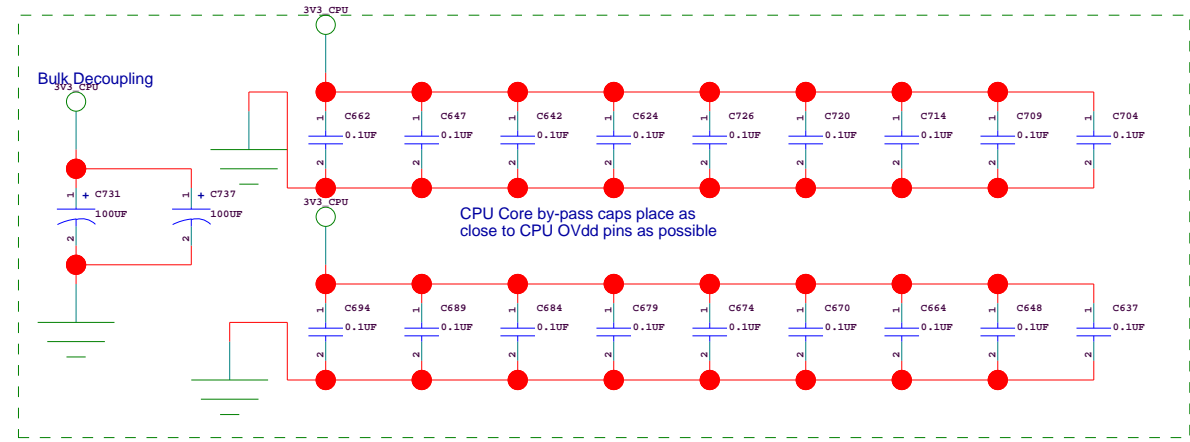
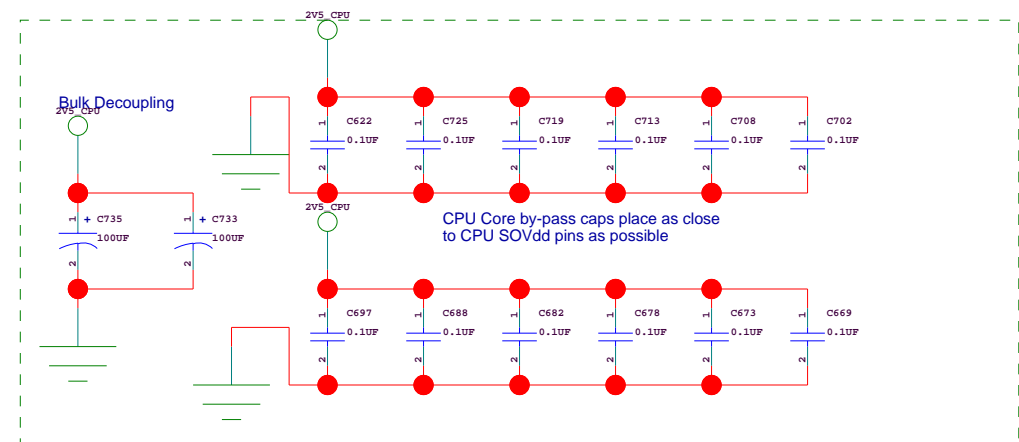
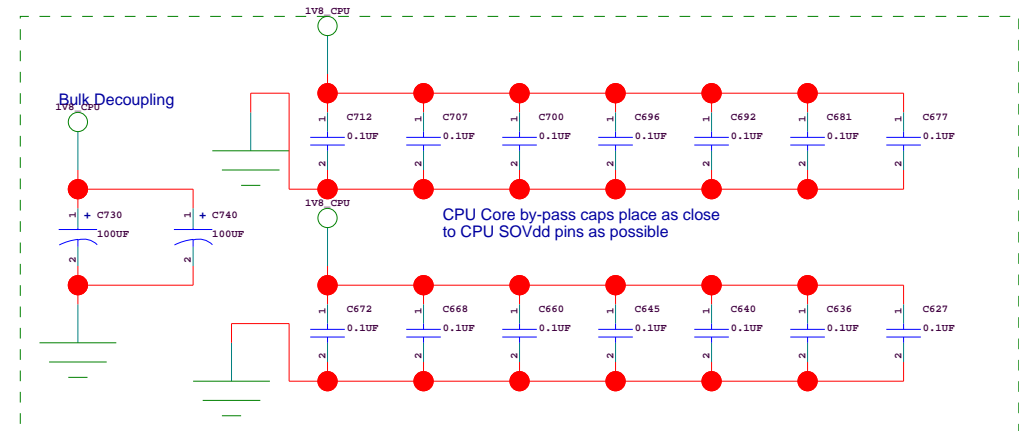
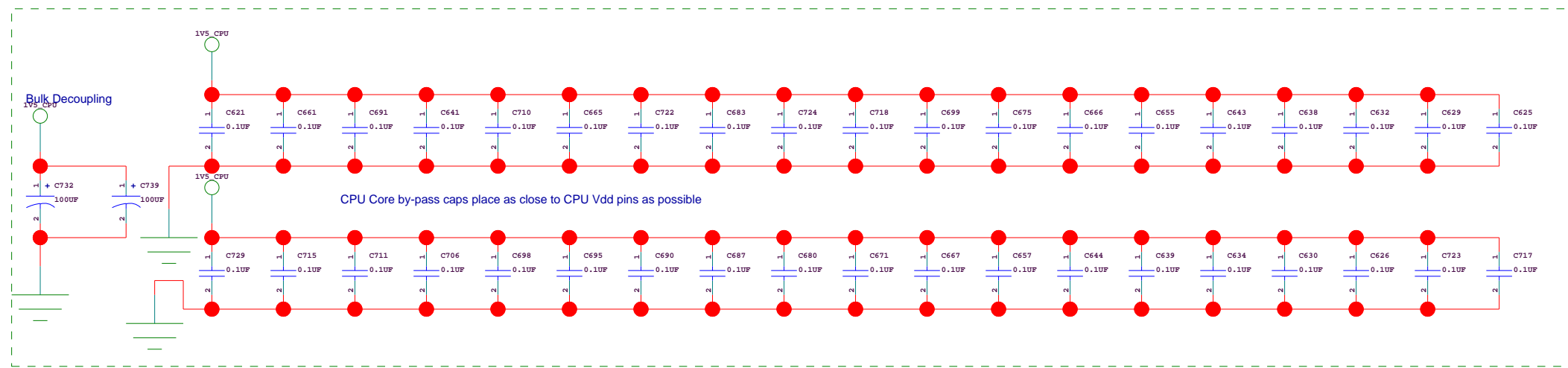
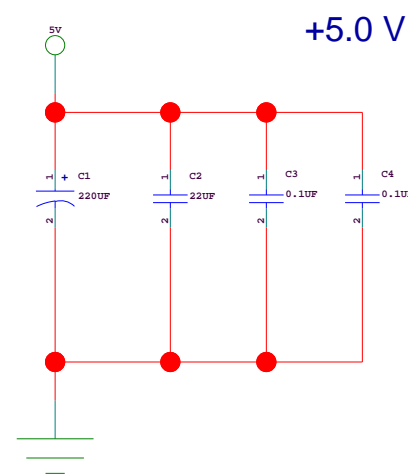
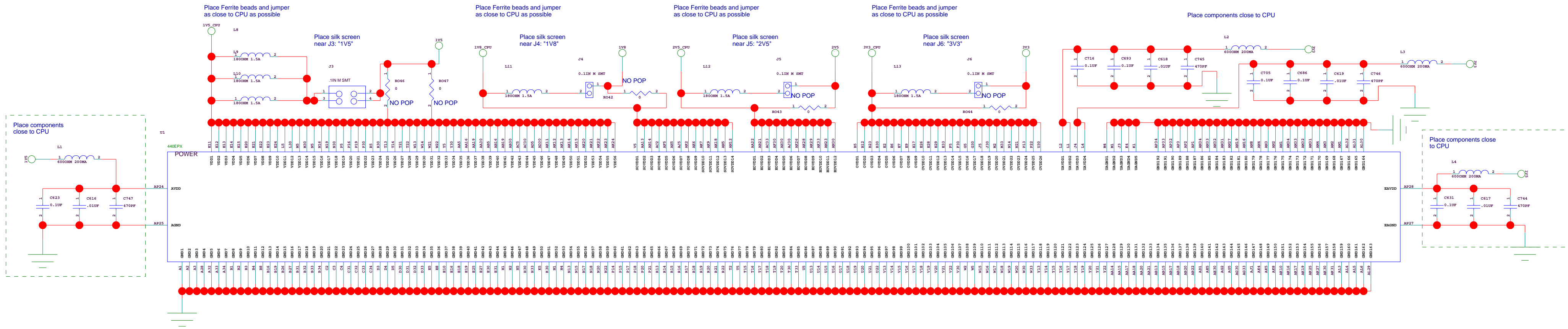
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COLLABORATORS:				DOC NO:		REVISION:	
CASPER GROUP, UC BERKELEY				NRF-ADM-XXX-SD-0001		A	
NRAO, SOCCORRO				DESCRIPTION:			
MEXICAT, CAPE TOWN				RECONFIGURABLE OPEN ARCHITECTURE HW			
http://casper.berkeley.edu/				DRAWN:		APPD:	
10-15-2007_17:40				F KAPP			
PATH PATH				R BAUERNBIESTER		SHEET	
						14 OF 25	





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
Master JTAG	101	1	Input (TCK)
Slave SelectMAP	110	8, 16, 32	Input
Slave Serial	111	1	Input





ROACH/iBOE2

COLLABORATORS:  
CASPER GROUP, UC BERKELEY  
NRAO, SOONERO  
BaeKAT, CAPE TOWN

10-15-2007\_17.40

PATH PATH

ROACH\_PPC\_POWER\_1

DOC NO: NRP-ADM-XXX-SD-0001

DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW

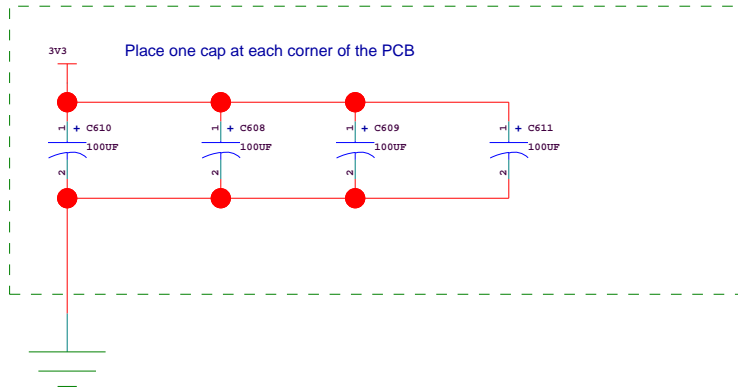
10-15-2007\_17.40

PATH PATH

17 OF 25

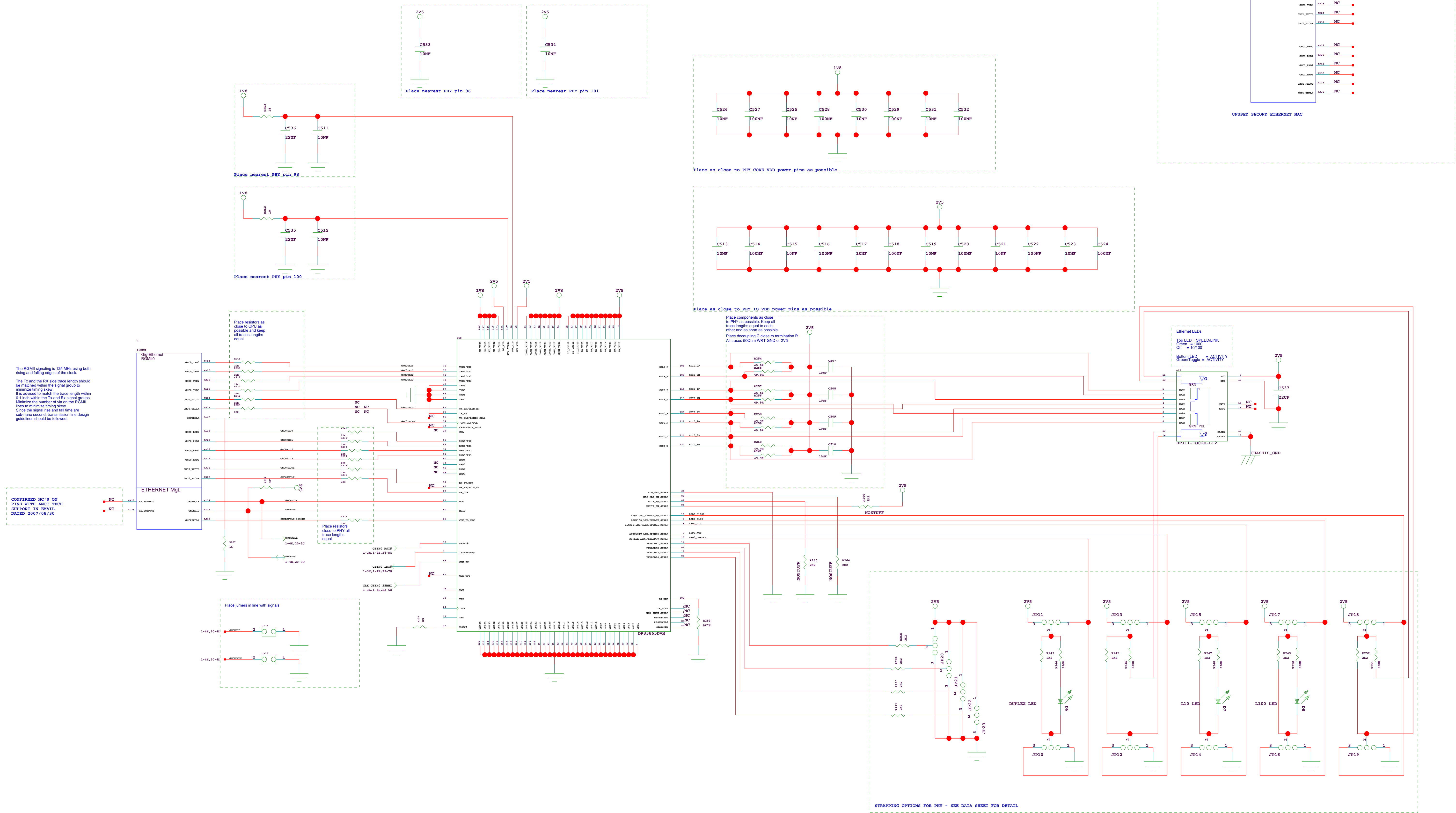


	A	B	C	D	E	F	G	H	J	K	L	M
7												
6			REMOVED 3V3 GENERATION									
5												
4		REMOVED +12V GENERATION		REMOVED -12V GENERATION								
3												
2												
1		REMOVED +1V GENERATION		REMOVED +2V5 GENERATION								
0												
	A	B	C	D	E	F	G	H	J	K	L	M



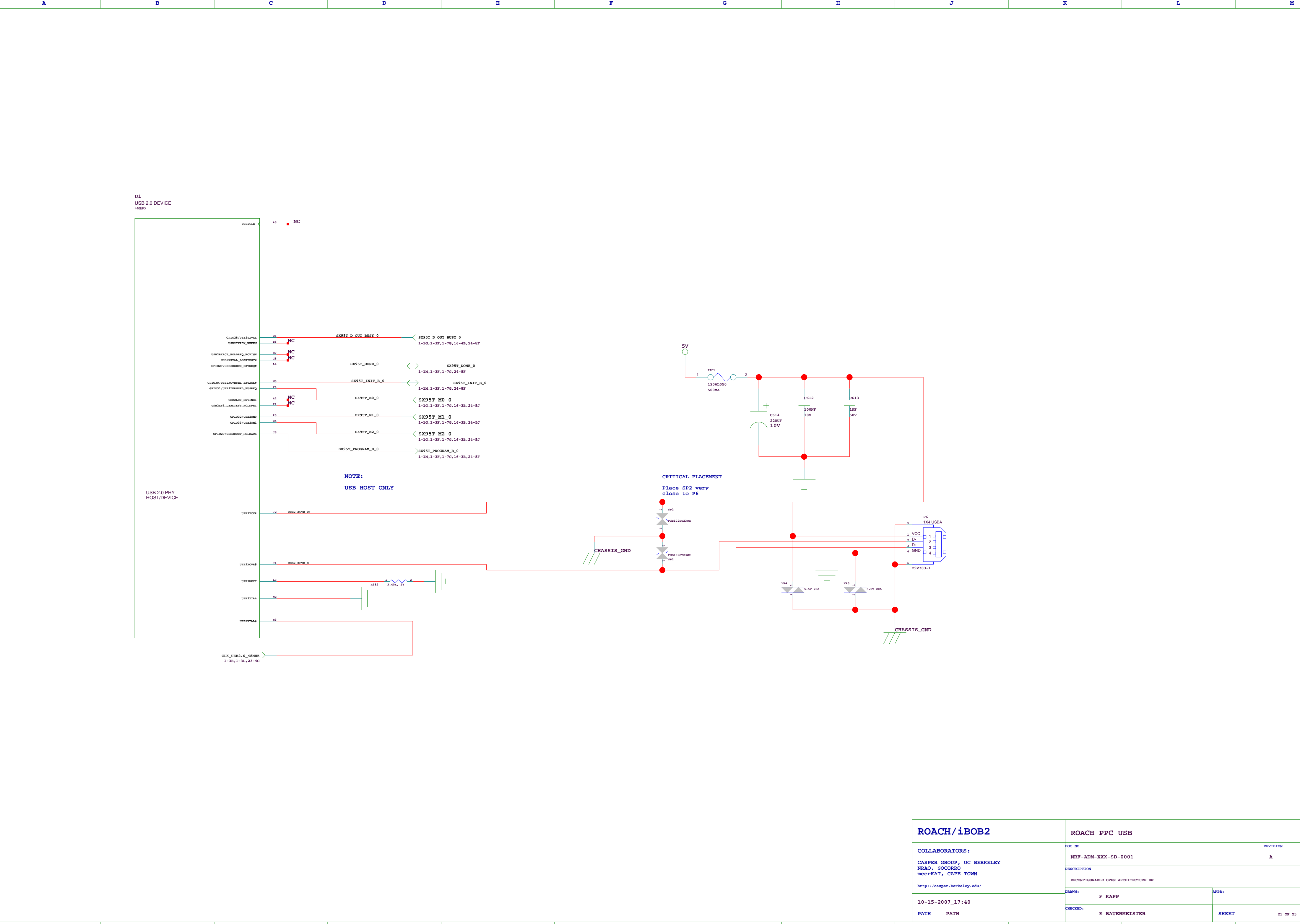
ROACH/iBOB2	ROACH_PPC_POWER_2	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN  <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>	DOC NO NRF-ADM-XXX-SD-0001	REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW	
	DRAWN: 10-15-2007_17:40 PATH	APPR: E BAUERMEISTER SHEET 18 OF 25



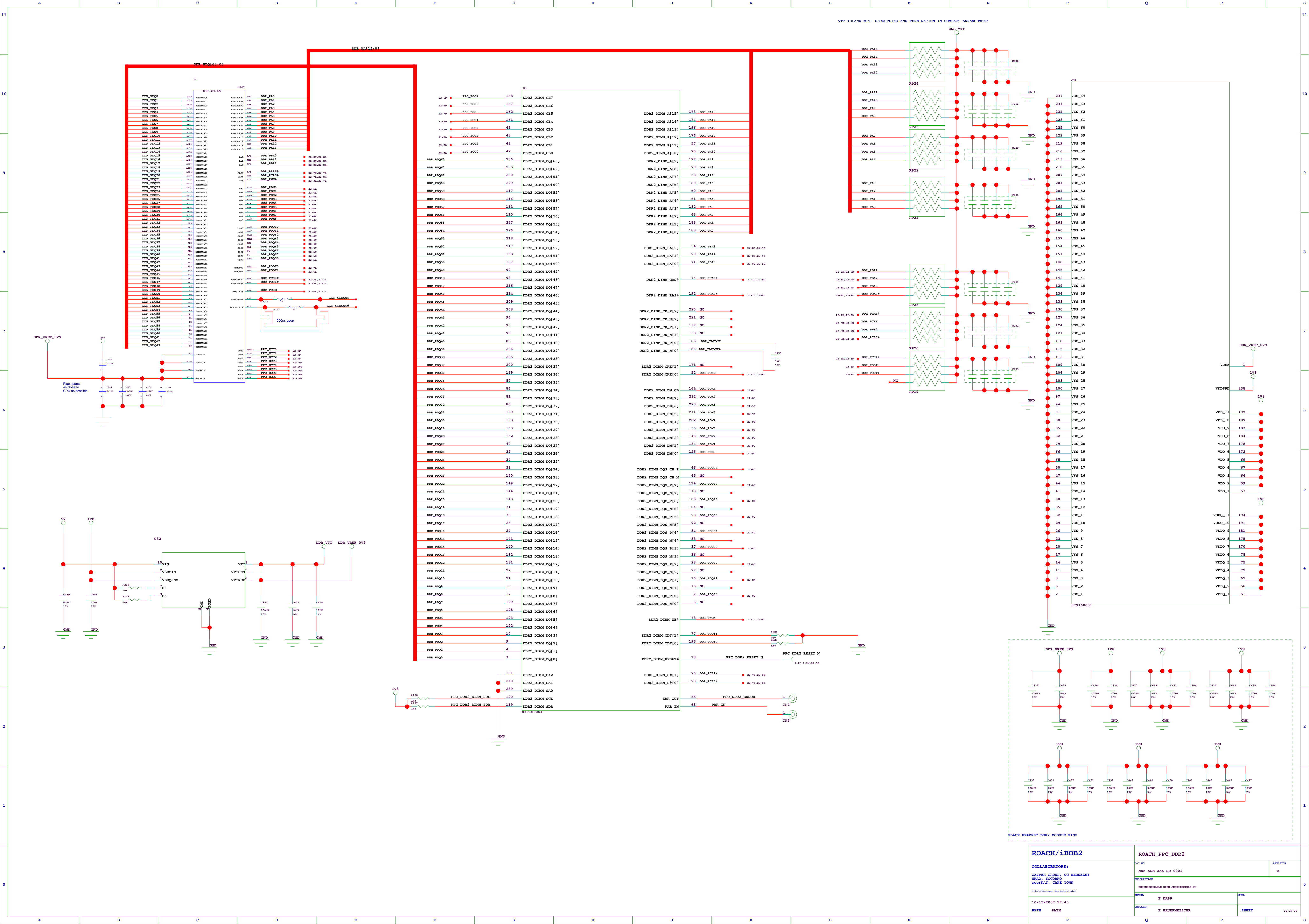


<b>ROACH/iBOB2</b>		<b>ROACH_PPC_ETH1</b>	
<b>COLLABORATORS:</b> CAEPER GROUP, UC BERKELEY HEAD, SCORODO BOMERAT, CAPE TOWN  <a href="http://caeper.berkeley.edu/">http://caeper.berkeley.edu/</a>		DOC NO  NRP-ADM-XXX-SD-0001  DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE SW	REVISION  A
10-15-2007, 17:40  PATH      PATH		NAME: F KAPP	APPR:
		CHECKED: R BAUENHEISTER	SHEET 20 OF 2



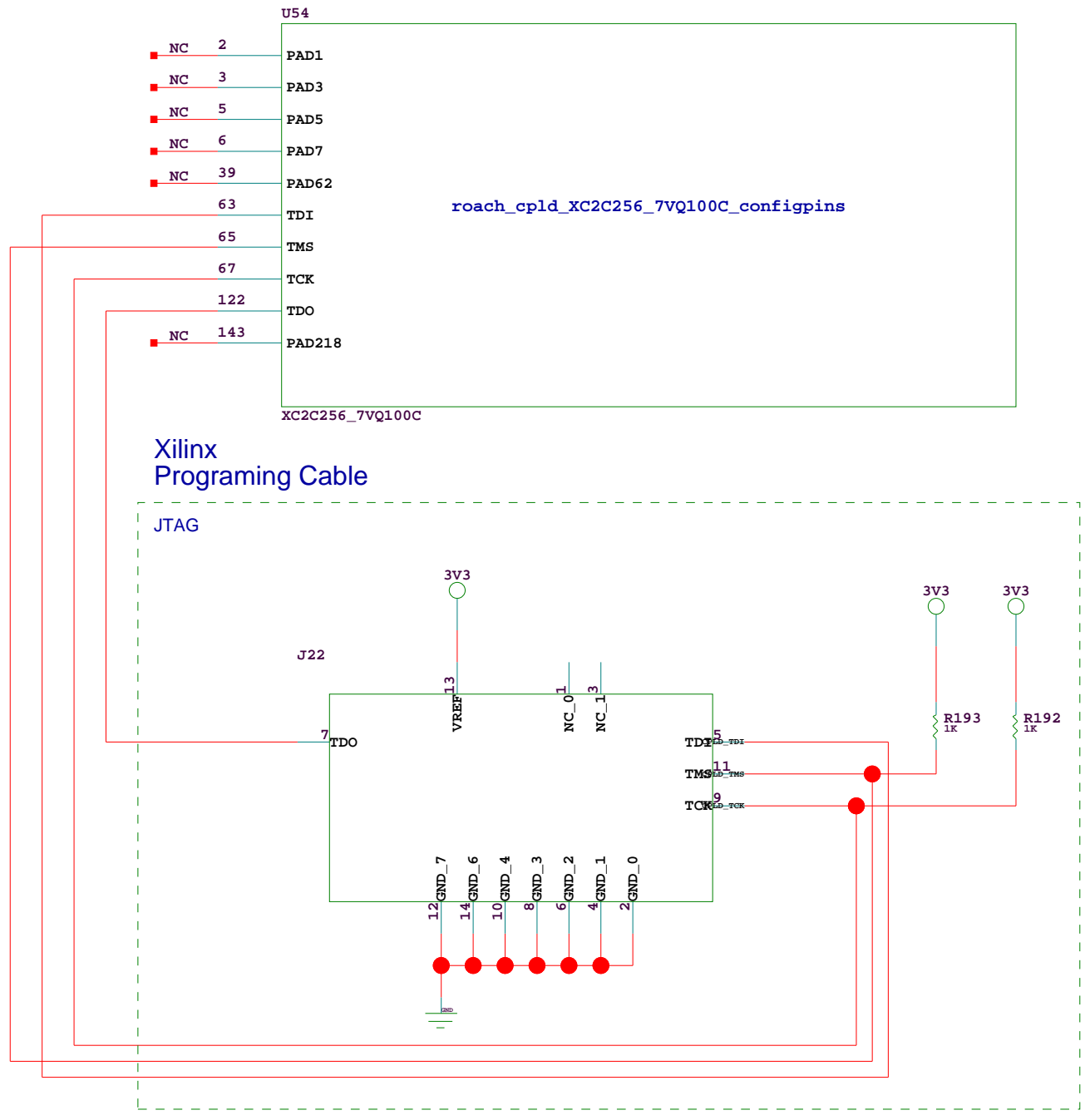
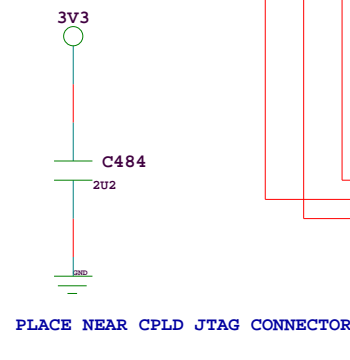
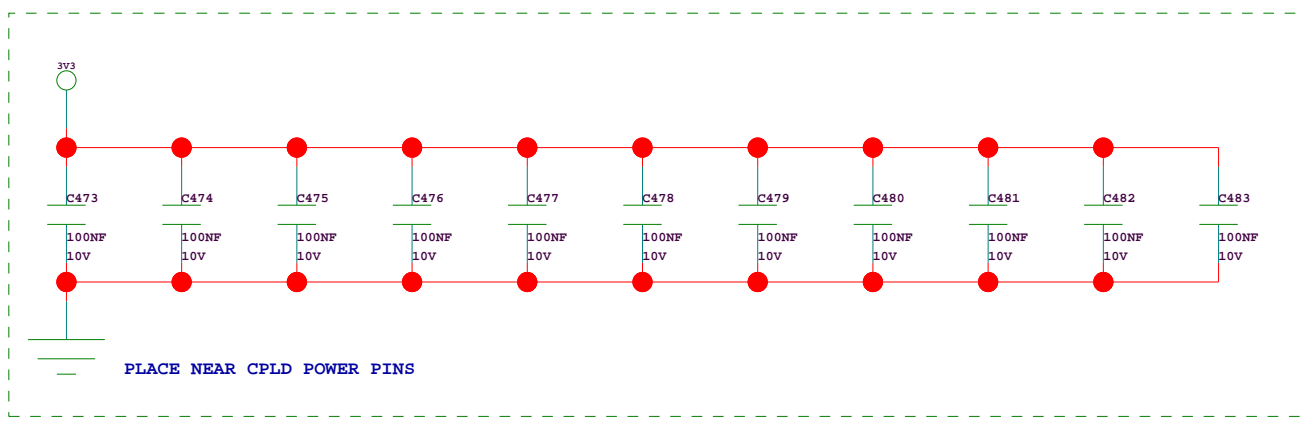
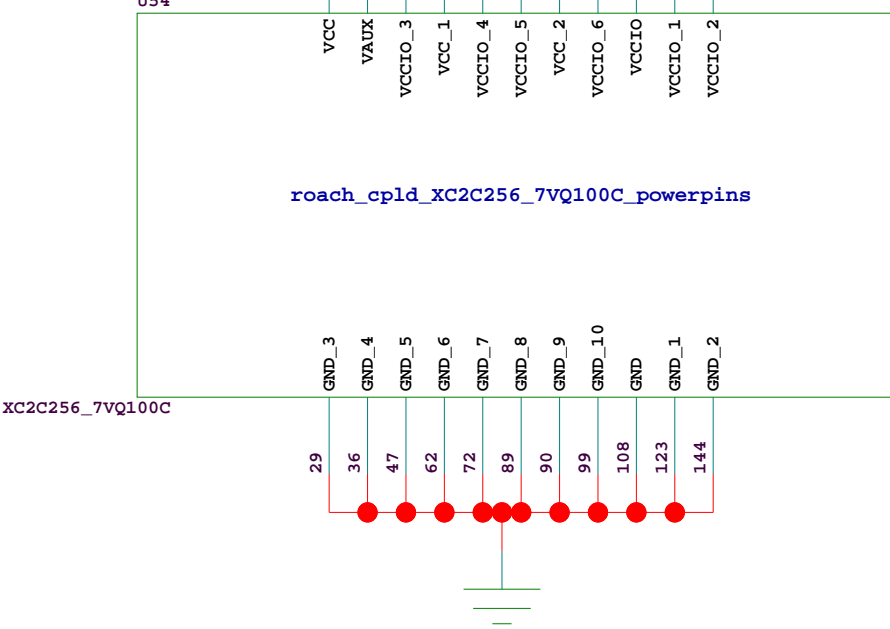
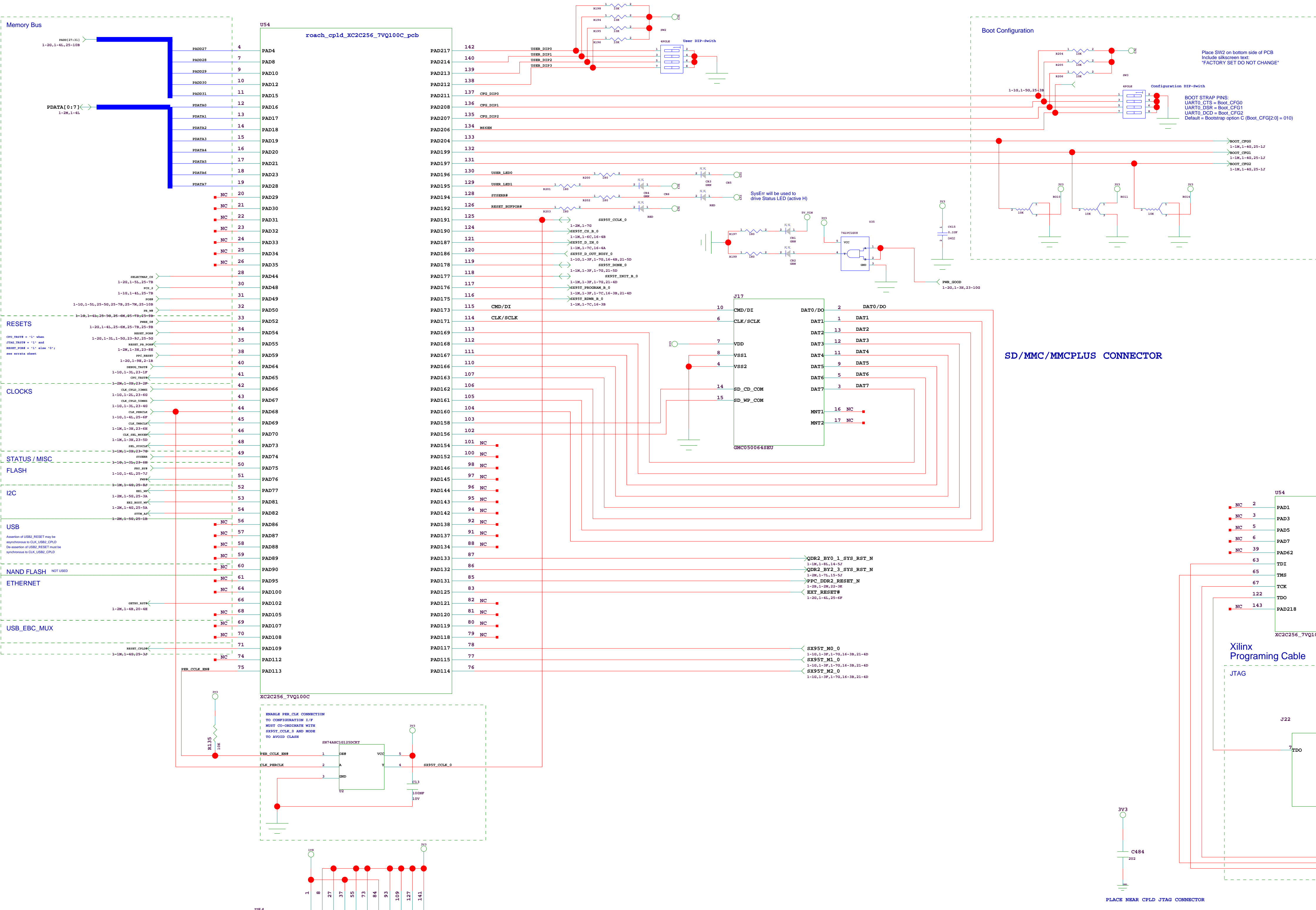


ROACH/iBOB2		ROACH_PPC_USB	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN  <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	DRAWN: F KAPP		APPR:
	CHECKED: E BAUERMEISTER		SHEET
10-15-2007_17:40		21 OF 25	
PATH PATH			



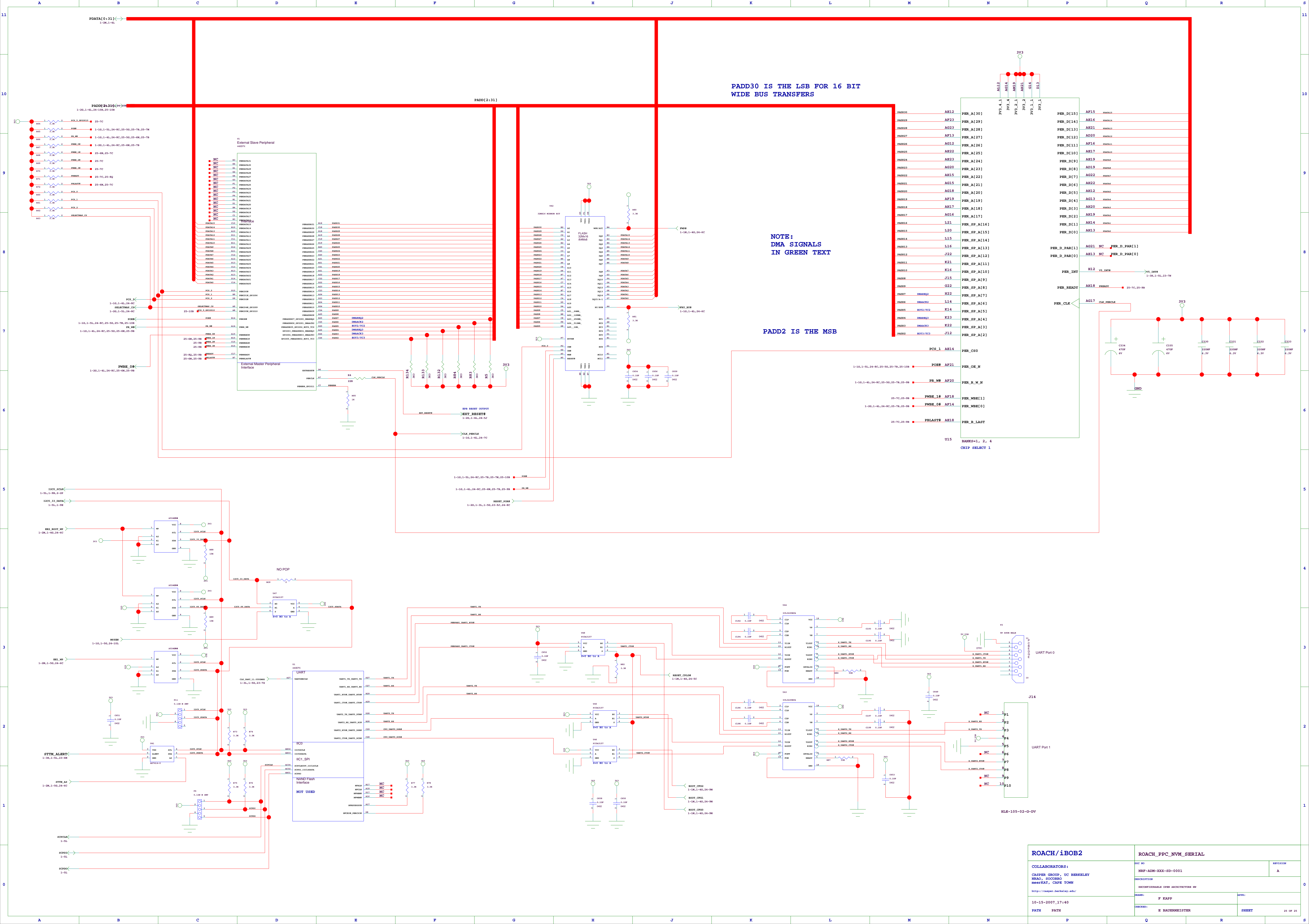






ROACH/iBOE2				ROACH_PPC_CPLD				
COLLABORATORS:  CASPER GROUP, UC BERKELEY NRAD, SOCORRO BERKEAT, CAPE TOWN  <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>  10-15-2007, 17:40  PATH      PATH				DOC NO	NRF-ADM-XXX-SD-0001		REVISION	A
				DESCRIPTION  RECONFIGURABLE OPEN ARCHITECTURE HW				
NAME:				F KAPP		APPENDIX		
CHECKED:				K BAUERMEISTER		SHEET	24 OF 25	





ROACH/iBOB2			ROACH_PPC_NVM_SERIAL	
COLLABORATORS:			DOC NO	REVISION
CASPER GROUP, UC BERKELEY			NRP-ADM-XXX-SD-0001	A
NIAO, SOCOBRO			DESCRIPTION	
BAEKAT, CAPE TOWN			RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/			DESIGN	APPV
10-15-2007_17:40			F KAPP	
PATH	PATH		R BAUERMEISTER	
			CHECKED	SHEET