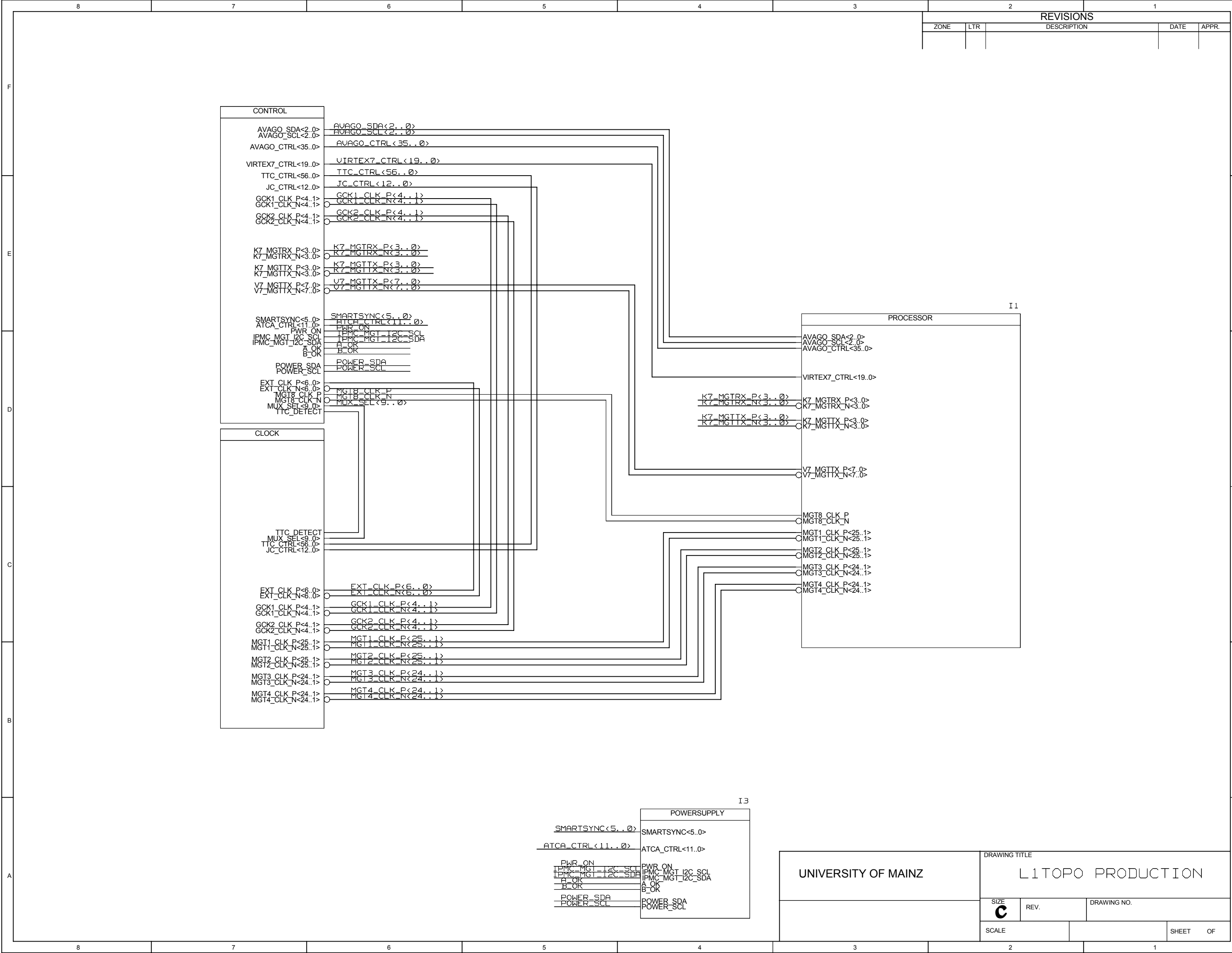
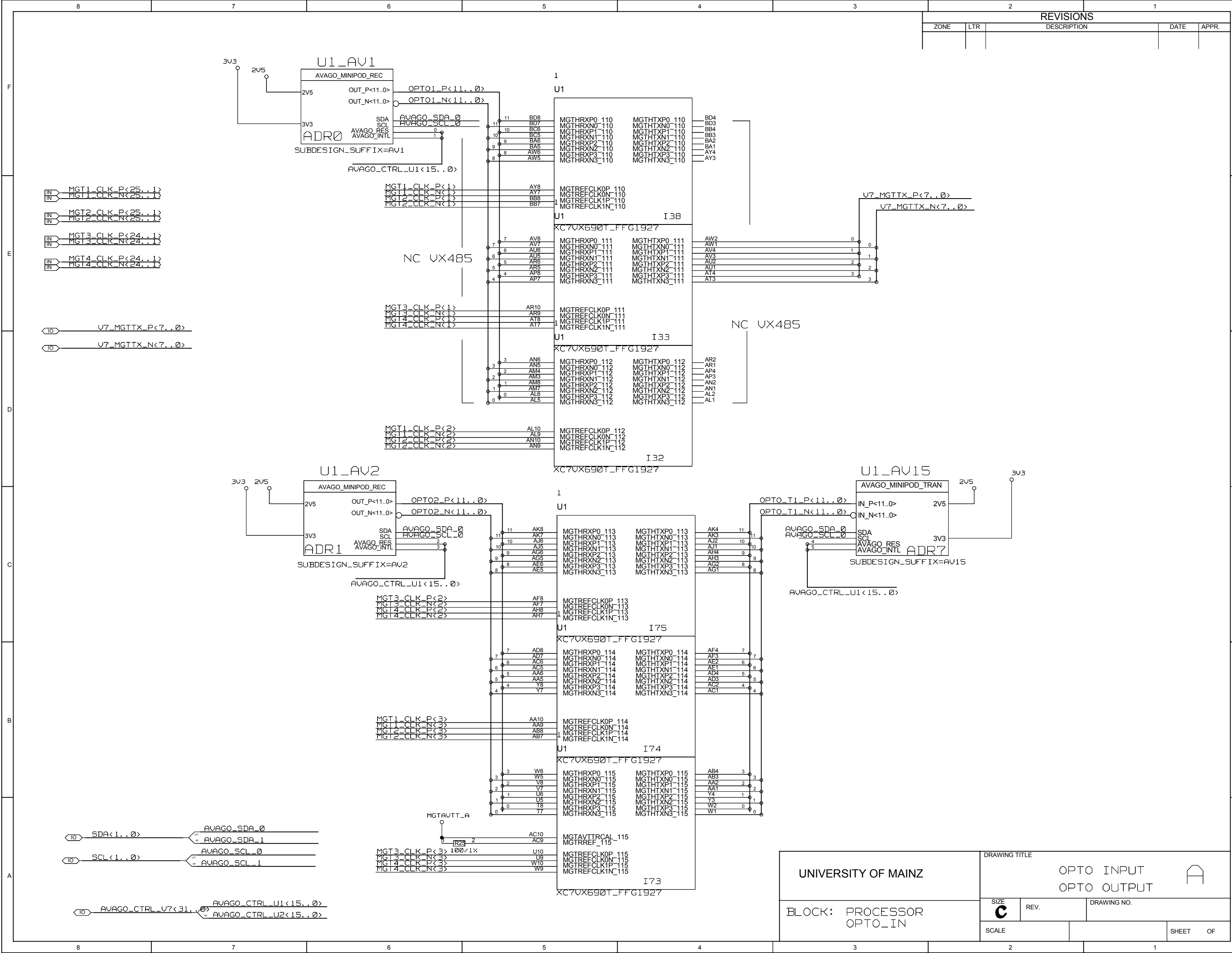


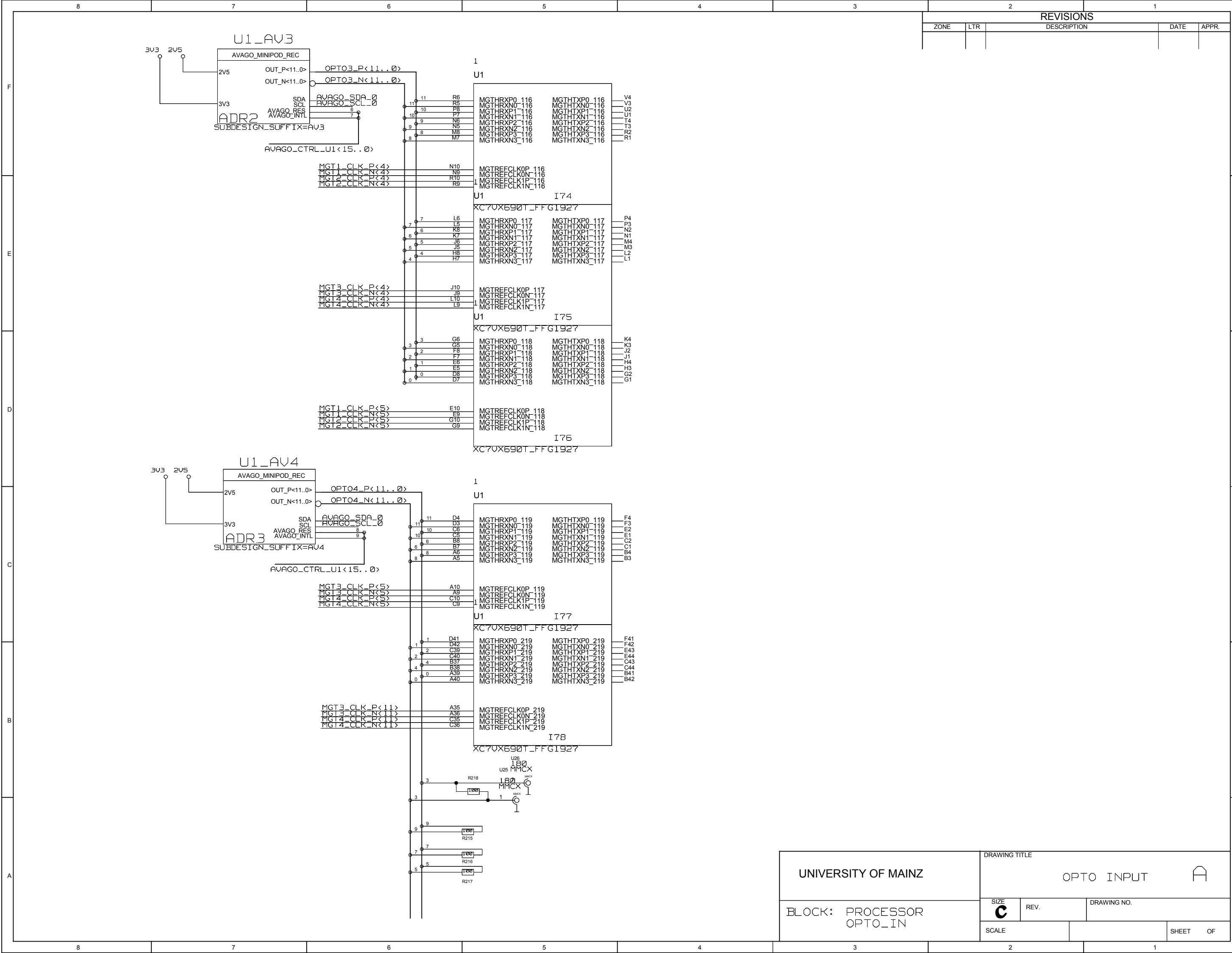
[illegible]

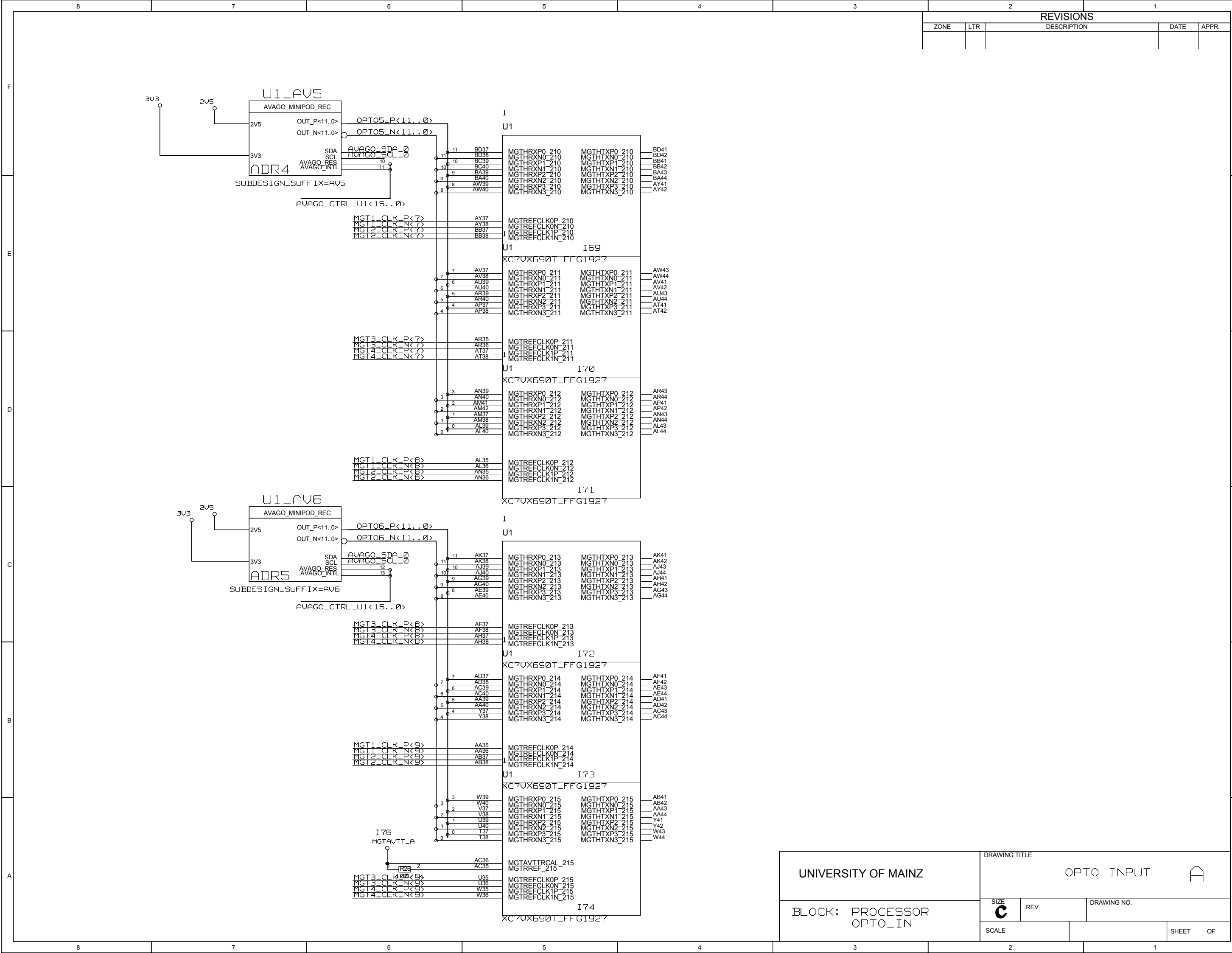




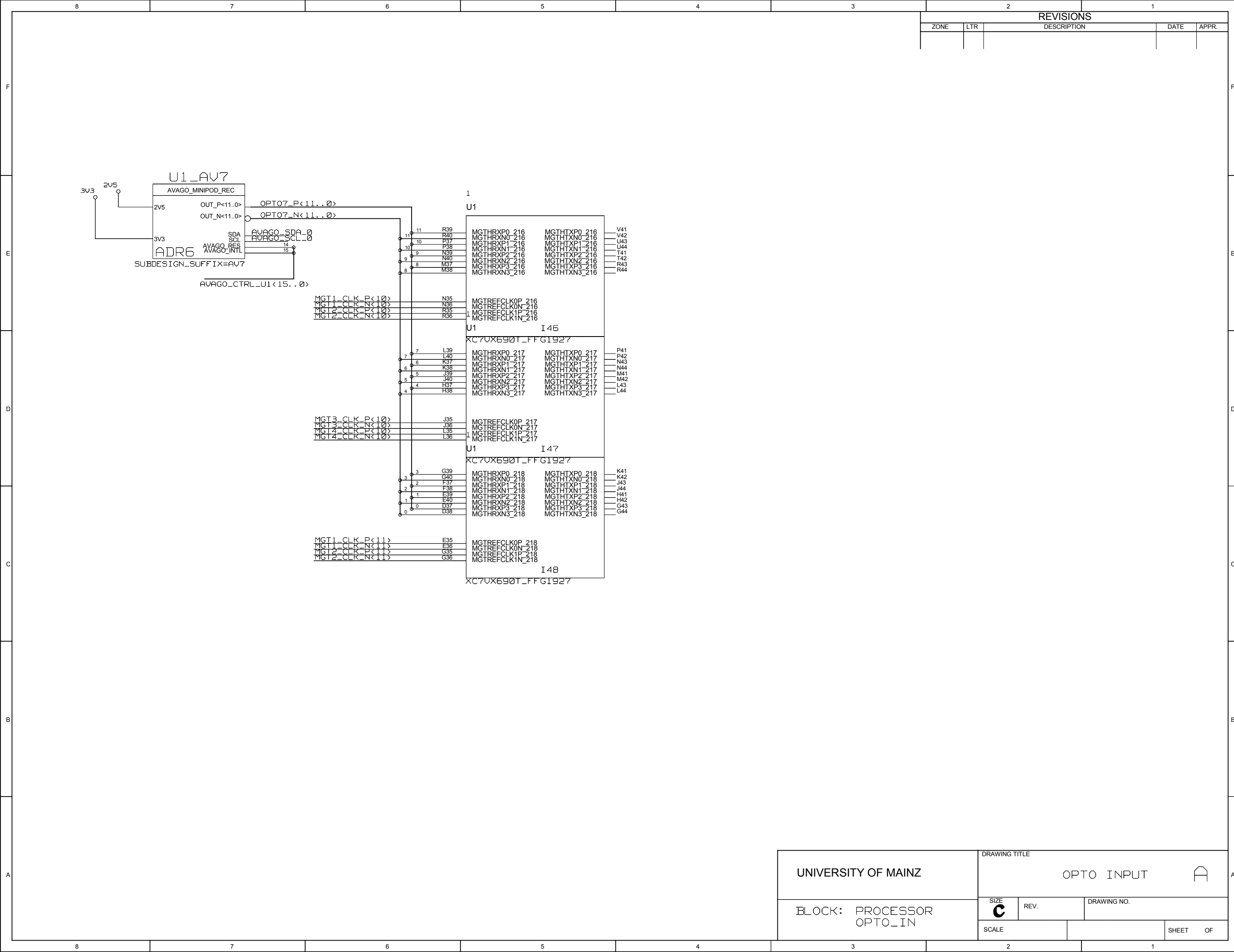
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

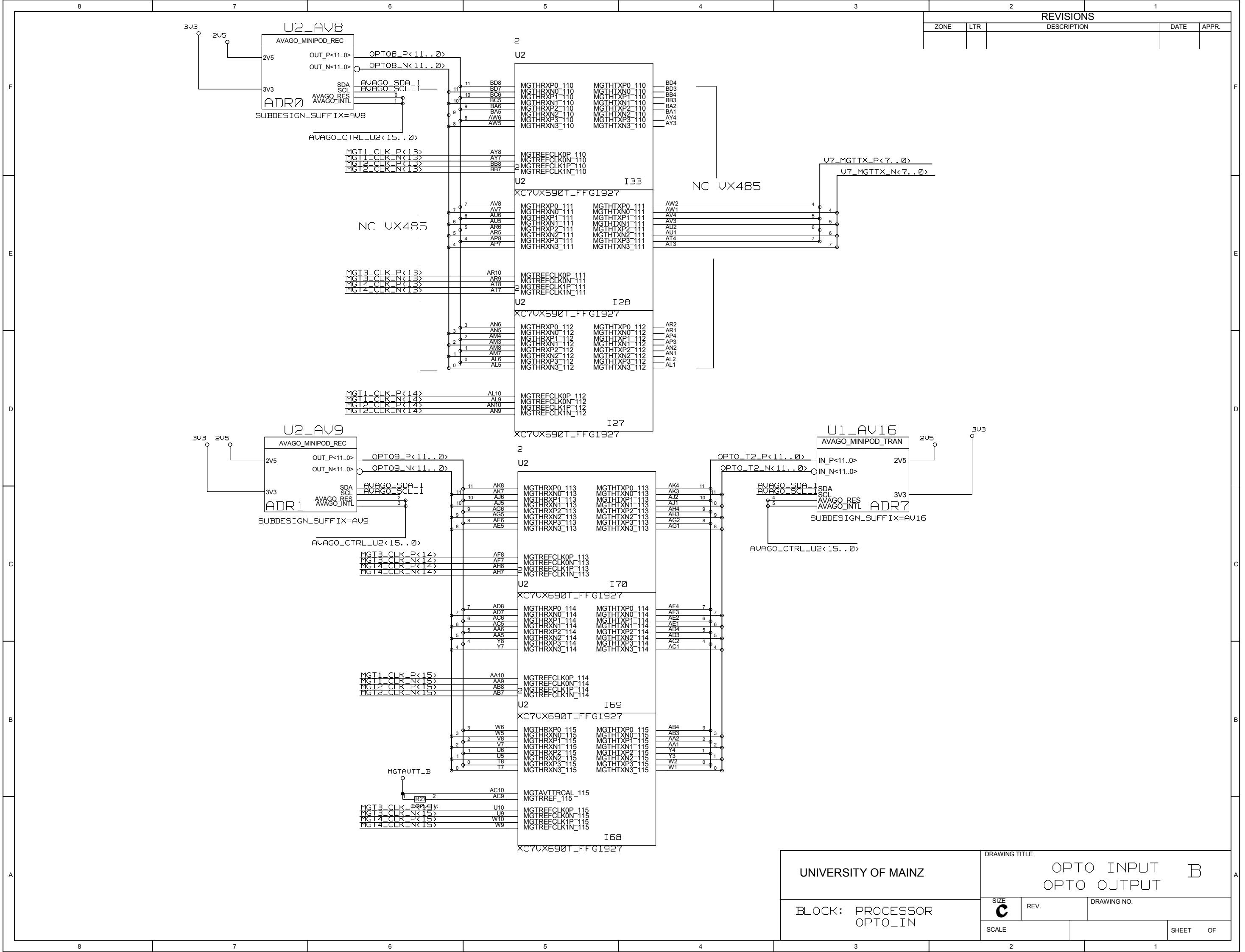
UNIVERSITY OF MAINZ		DRAWING TITLE		
		OPTO INPUT OPTO OUTPUT		
BLOCK: PROCESSOR OPTO_IN		SIZE C	REV.	DRAWING NO.
		SCALE		SHEET OF

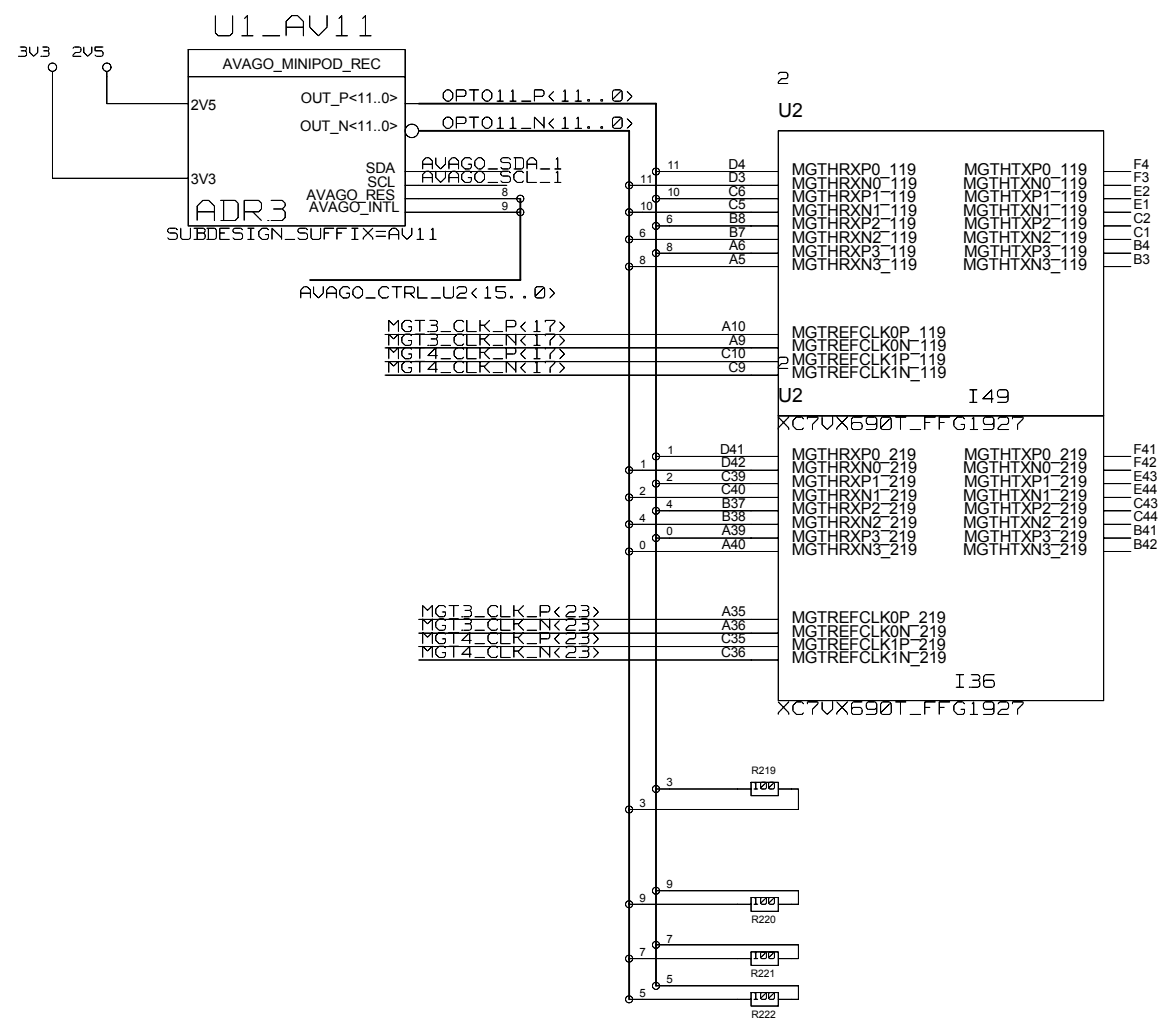
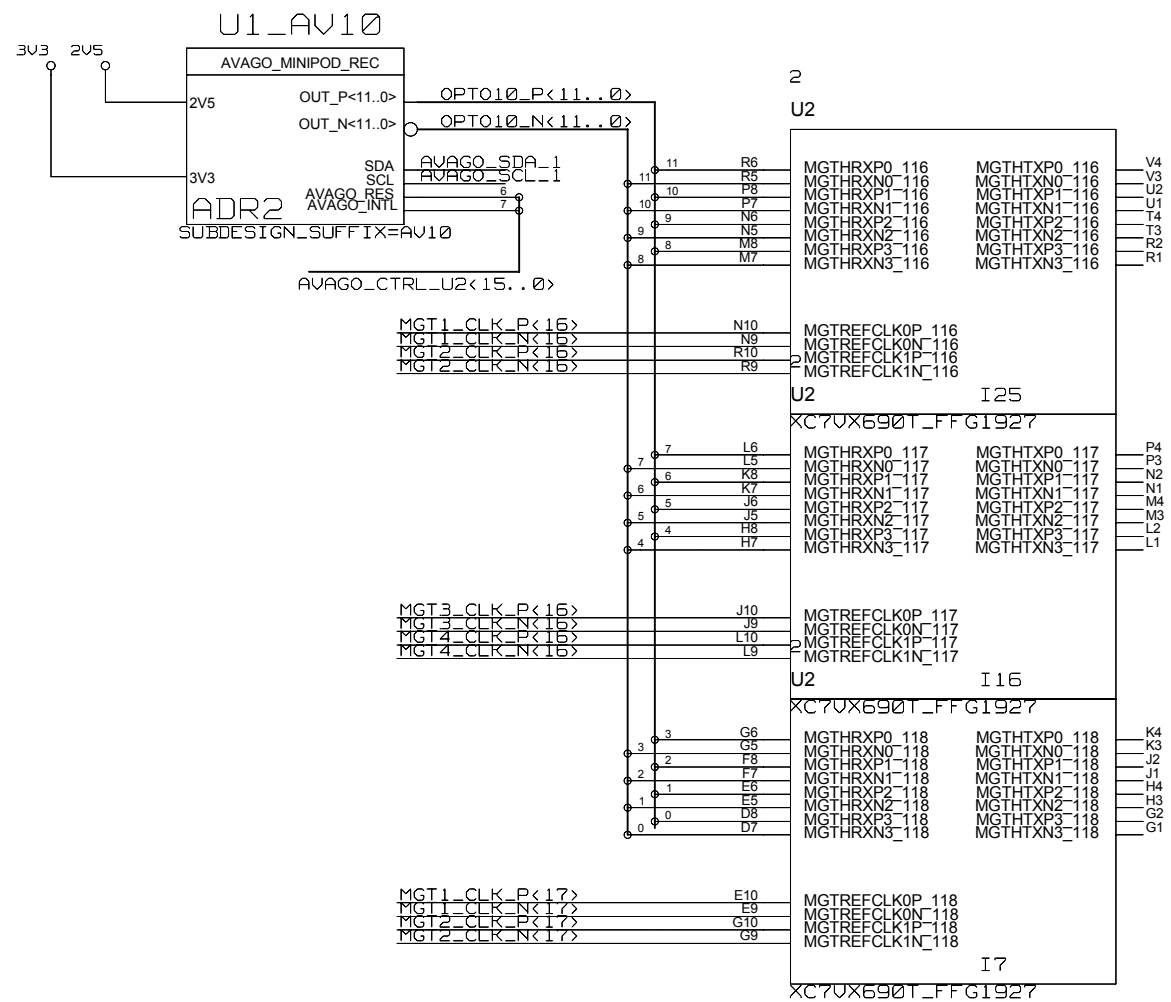




UNIVERSITY OF MAINZ		DRAWING TITLE	
BLOCK: PROCESSOR OPTO_IN		OPTO INPUT 	
SIZE C	REV.	DRAWING NO.	
SCALE		SHEET OF	

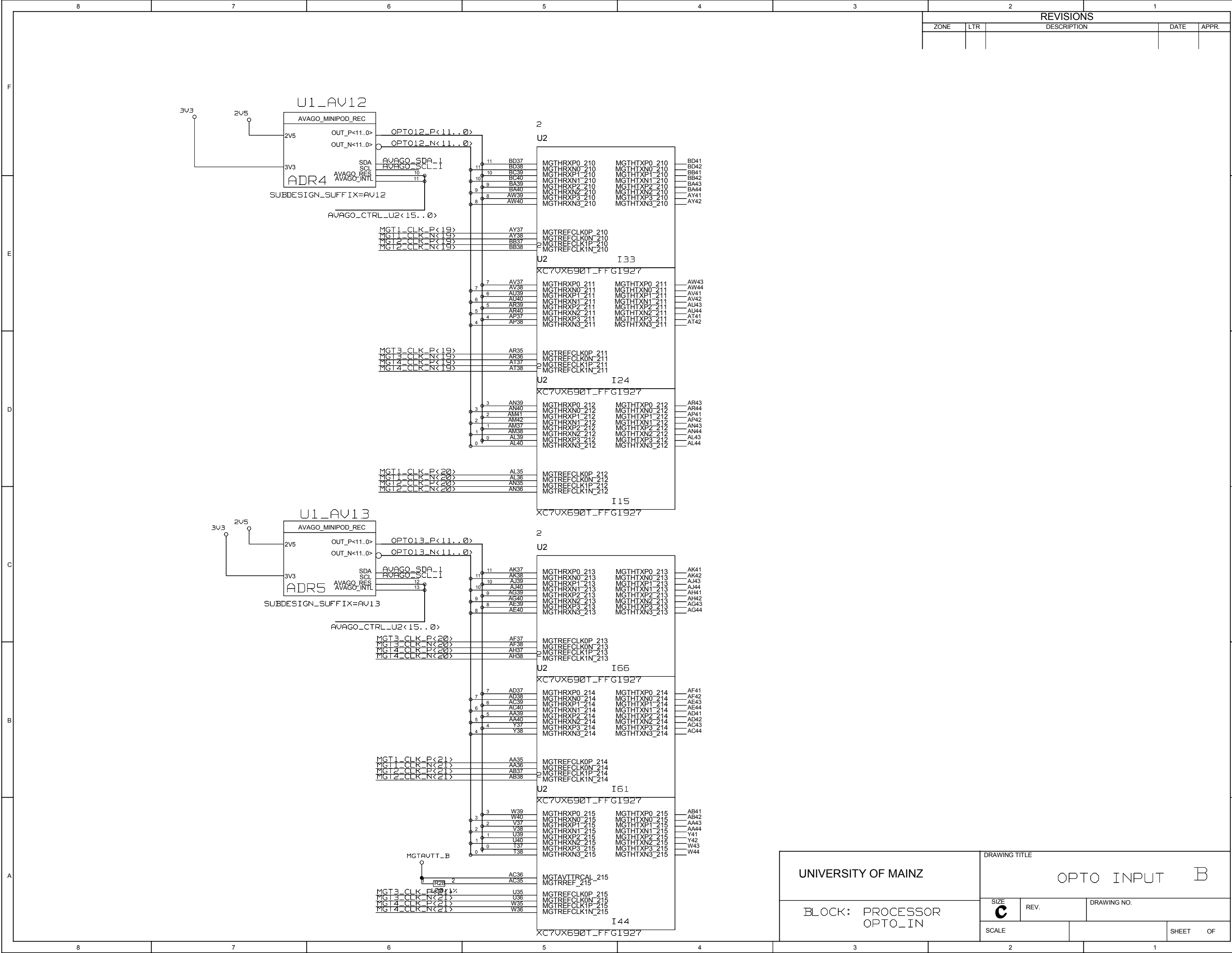




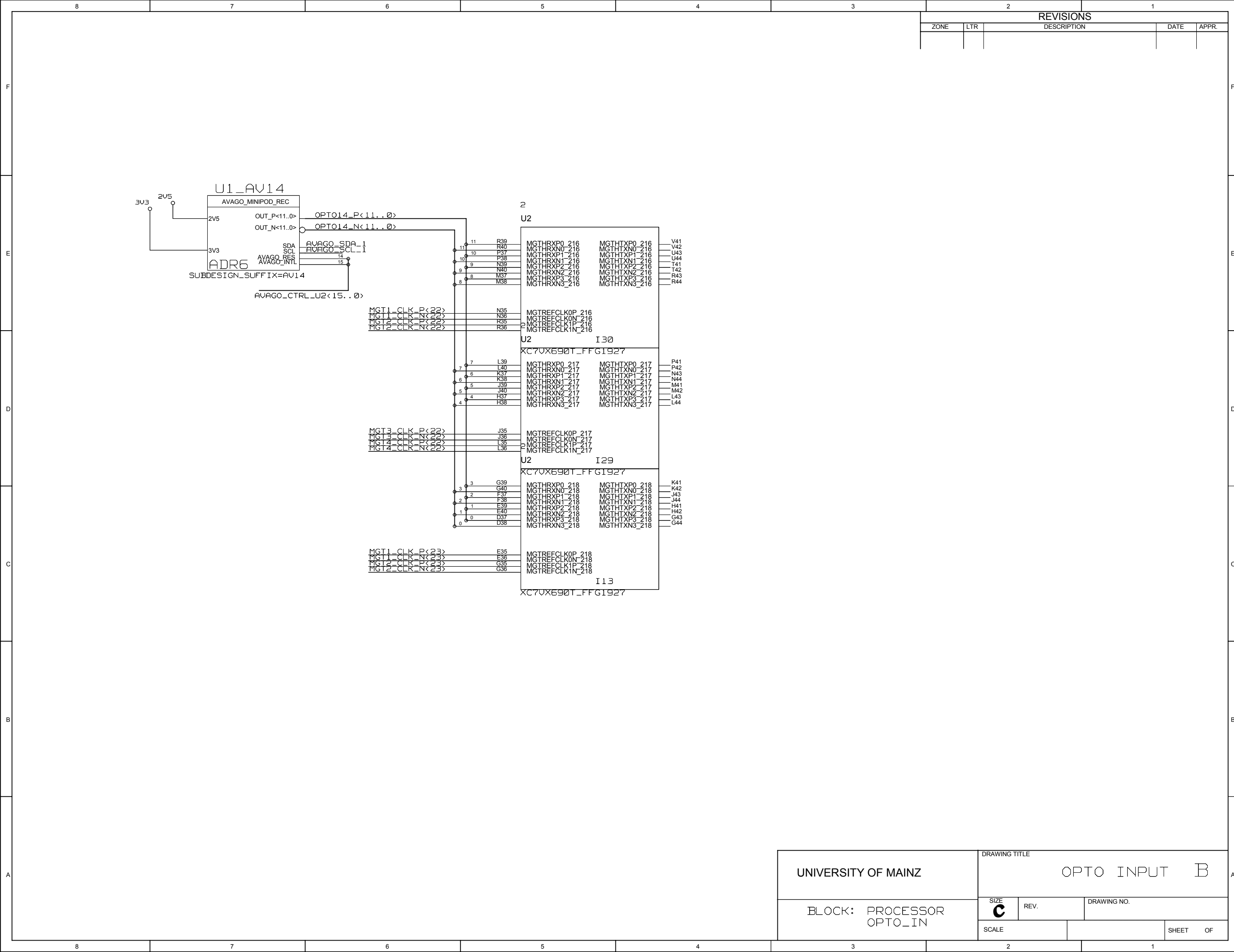


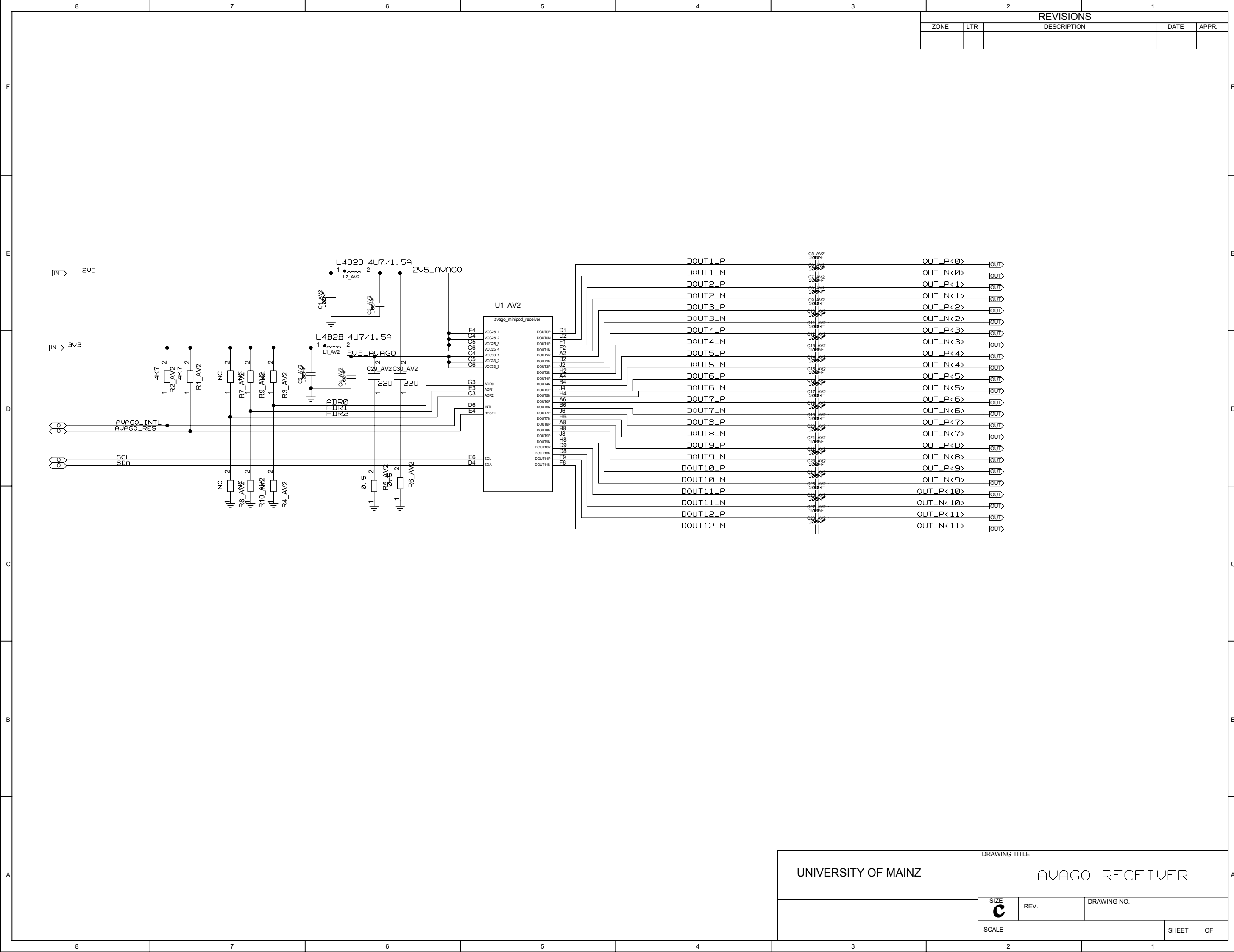
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

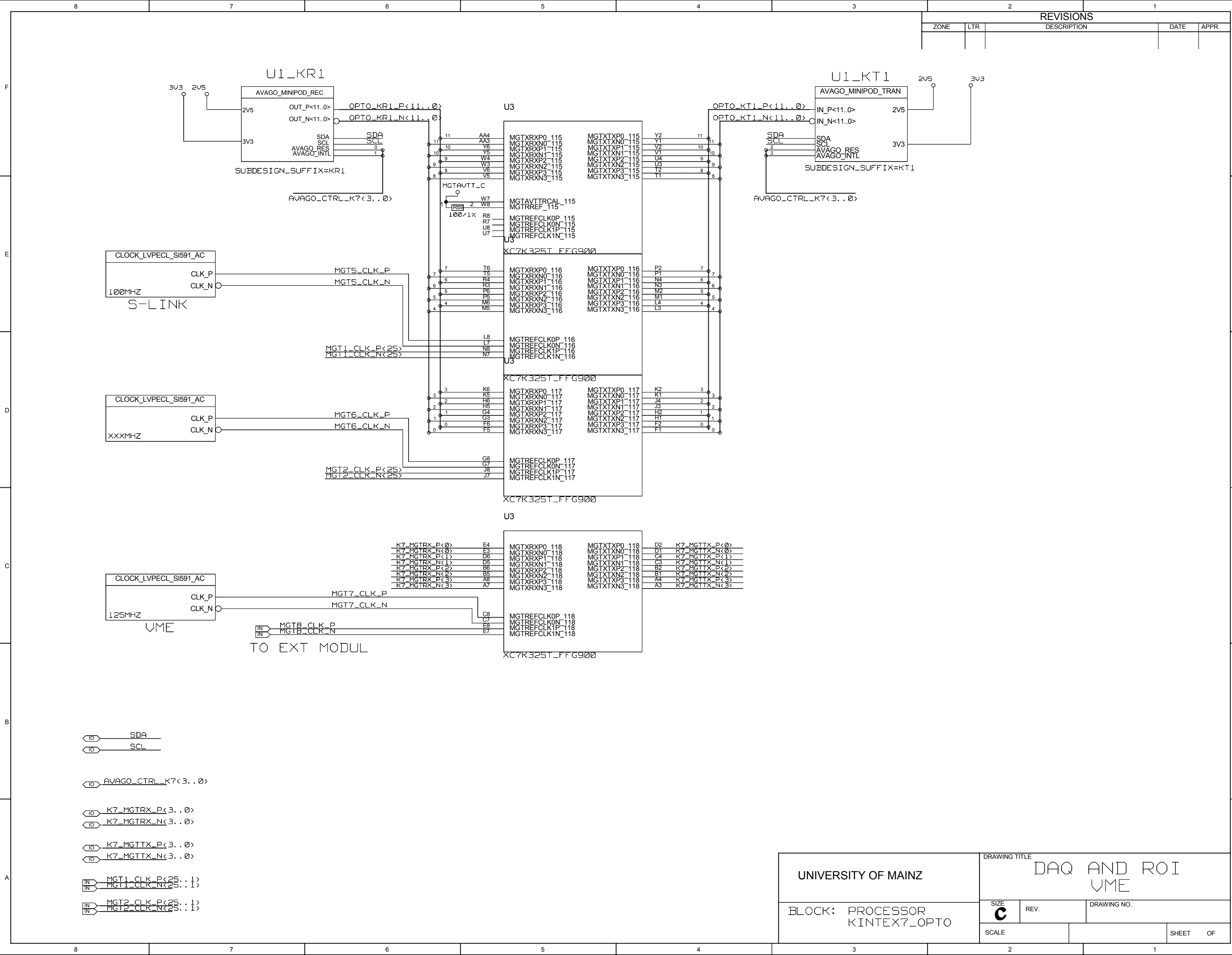
UNIVERSITY OF MAINZ	DRAWING TITLE		
	OPTO INPUT B		
BLOCK: PROCESSOR OPTO_IN	SIZE C	REV.	DRAWING NO.
	SCALE		SHEET OF



UNIVERSITY OF MAINZ		DRAWING TITLE	
BLOCK: PROCESSOR OPTO_IN		OPTO INPUT B	
SIZE	REV.	DRAWING NO.	
SCALE			SHEET OF







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SDA
SCL

AVAGO_CTRL_K7<3..0>

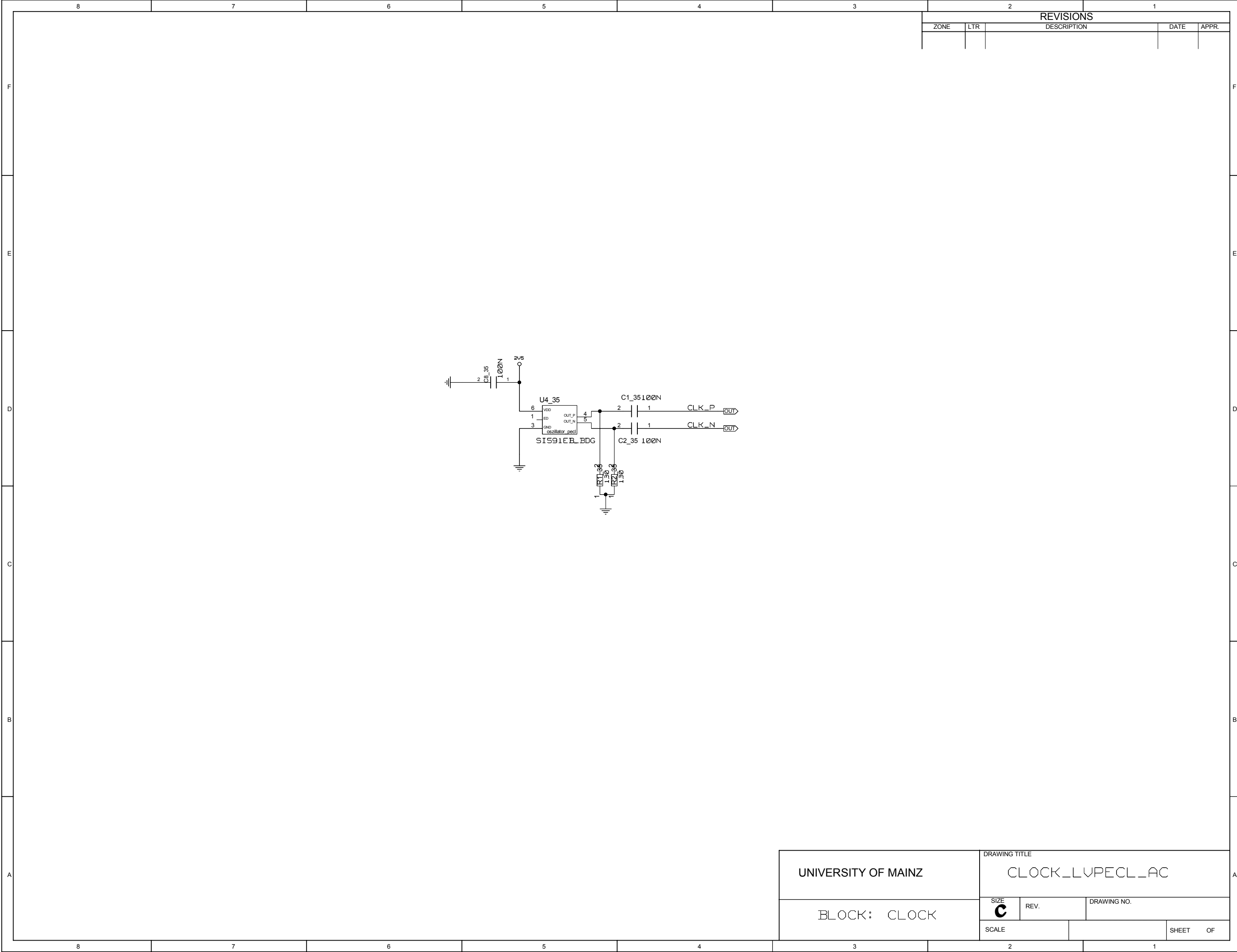
K7_MGTRX_P<3..0>
K7_MGTRX_N<3..0>

K7_MGTX_P<3..0>
K7_MGTX_N<3..0>

MGT1_CLK_P<25..1>
MGT1_CLK_N<25..1>

MGT2_CLK_P<25..1>
MGT2_CLK_N<25..1>

UNIVERSITY OF MAINZ		DRAWING TITLE		
		DAQ AND ROI UME		
BLOCK: PROCESSOR KINTEX7_OPTO		SIZE C	REV.	DRAWING NO.
		SCALE		SHEET OF





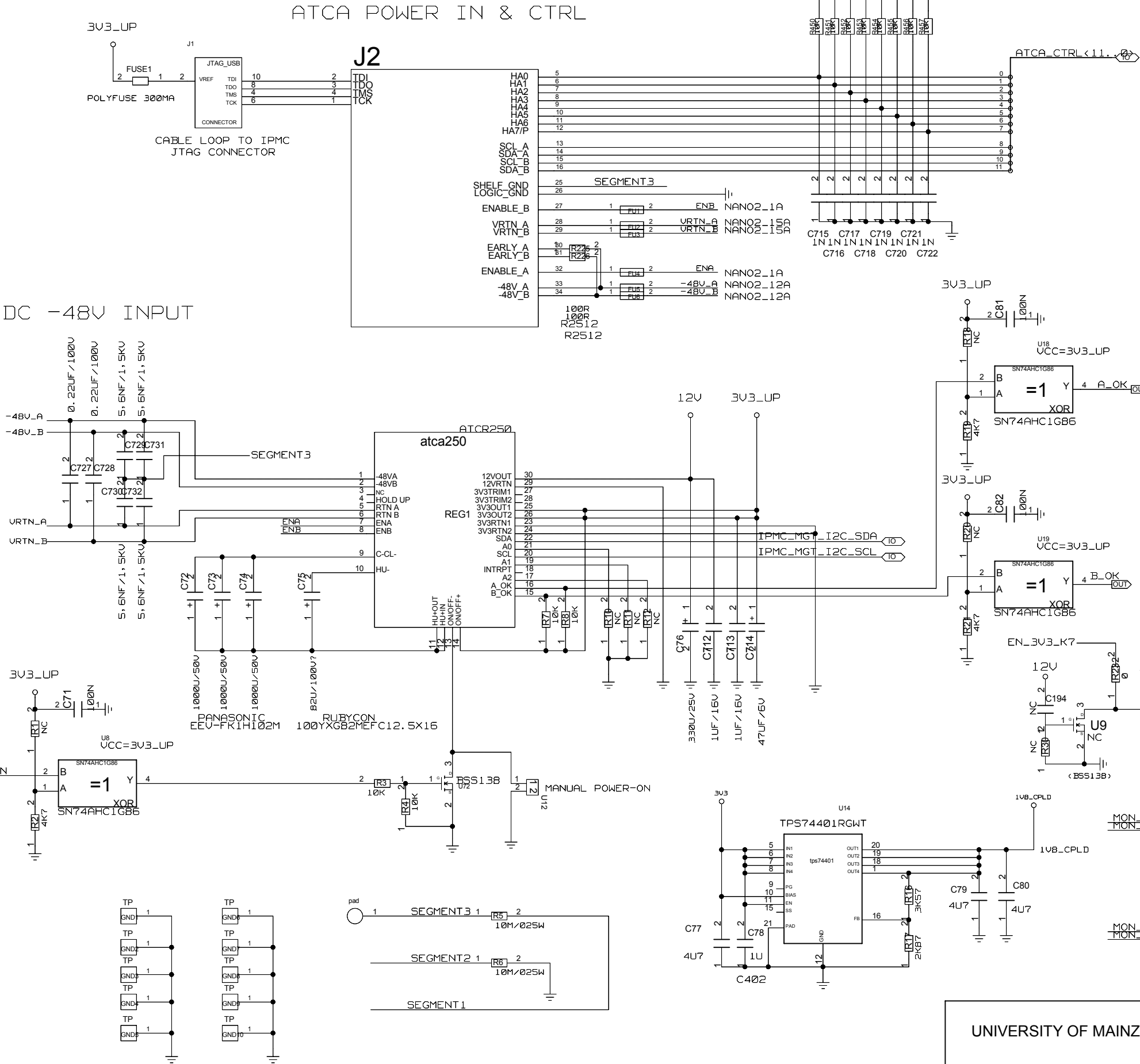


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

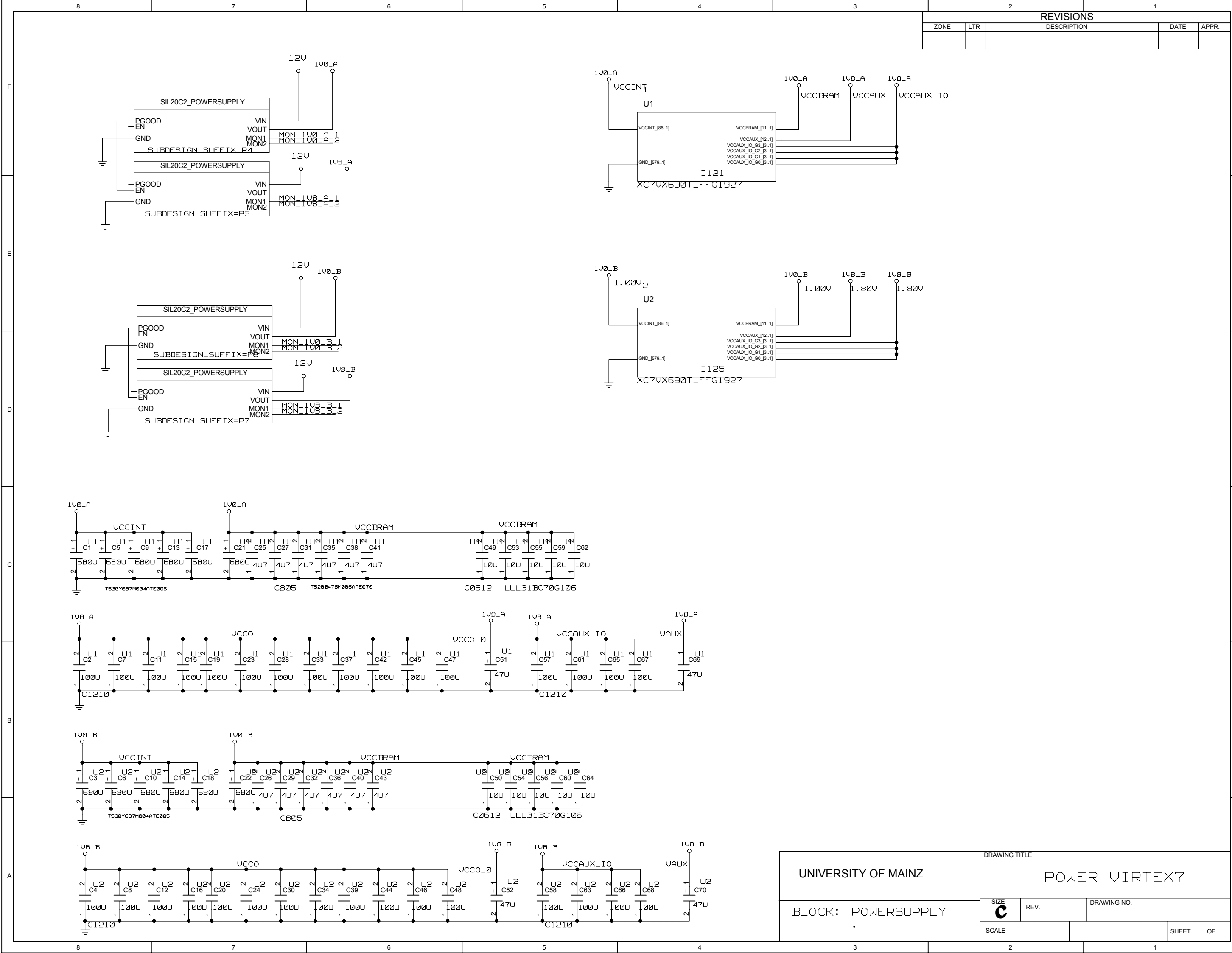
UNIVERSITY OF MAINZ		DRAWING TITLE		
		DATA BUS		
BLOCK: PROCESSOR DATA_BUS		SIZE	REV.	DRAWING NO.
		C		
SCALE		SHEET		OF

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
			APPR.

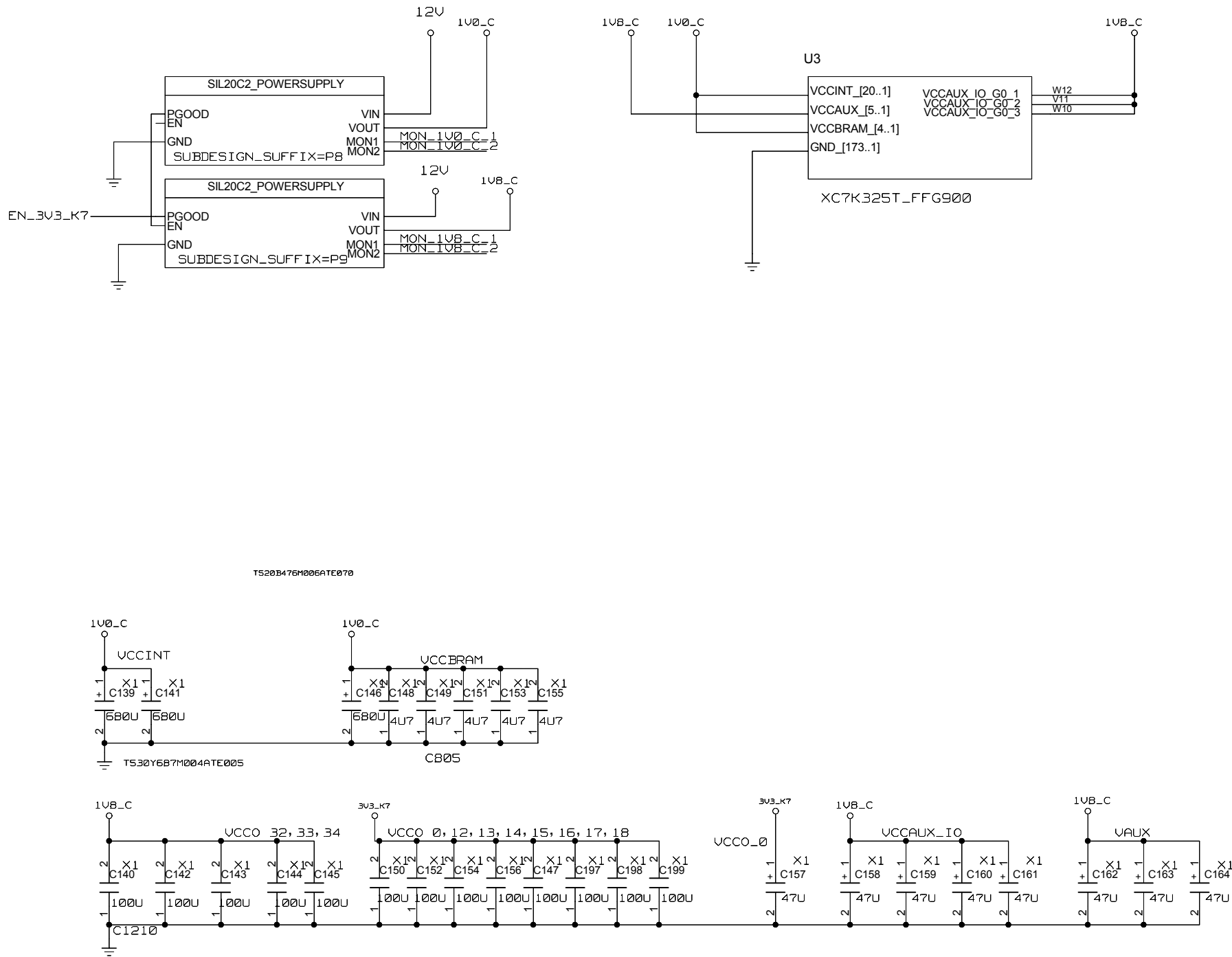
PTH08T220W	3V3	1K21
PTH08T220W	2V5	2K37
PTH08T220W	1V0	20K5
PTH08T240W	1V0	20K5
PTH08T240W	1V2	12K1
SIL20C2	1V0	2K87
SIL20C2	1V8	976R
LD006C	1V0	2K87
LD006C	1V2	1K96
LD006C	3V3	436R
LD006C	5V0	270R
TPS74401	1V8	3K57/2K87



UNIVERSITY OF MAINZ		DRAWING TITLE	
BLOCK: POWERSUPPLY		12V POWERBUS	
SIZE	REV.	DRAWING NO.	
C	02.06.2014		
SCALE		SHEET OF	



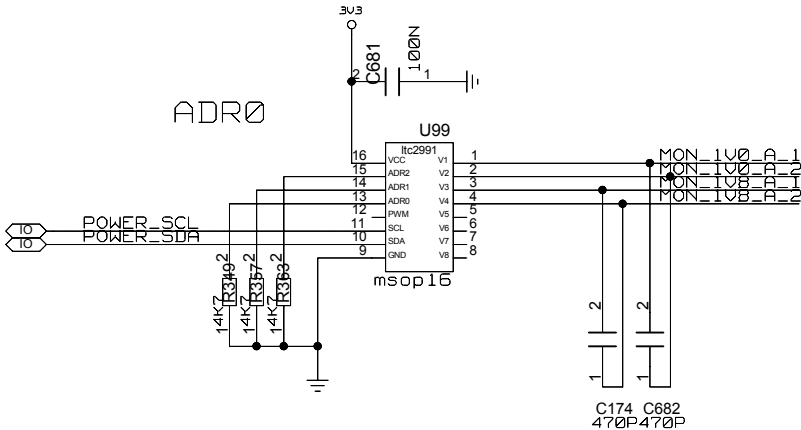
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



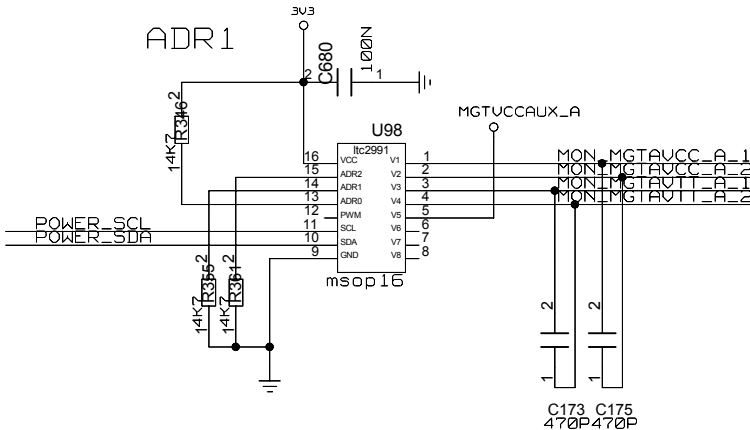
UNIVERSITY OF MAINZ		DRAWING TITLE		
		POWER KINTEX7		
		SIZE C	REV.	DRAWING NO.
BLOCK: POWERSUPPLY		SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

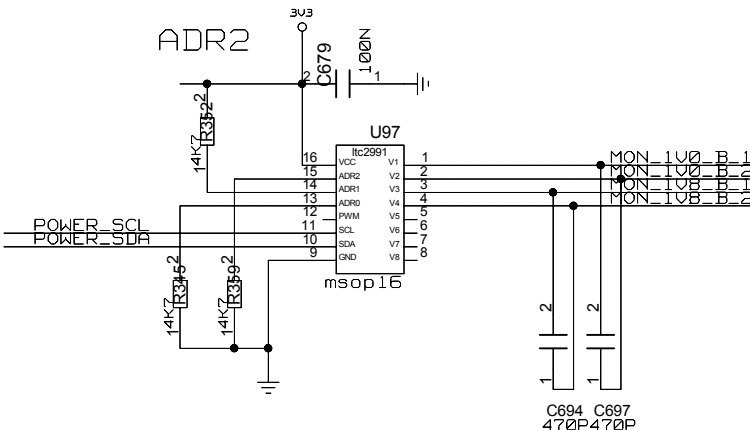
U1 CORE POWER MONITOR



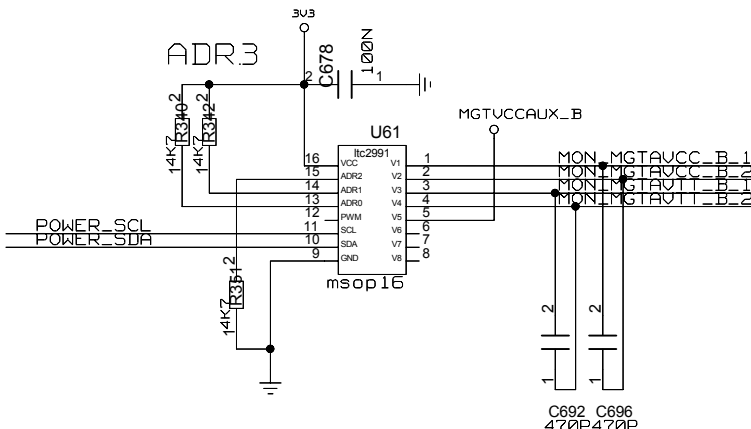
U1 MGT POWER MONITOR



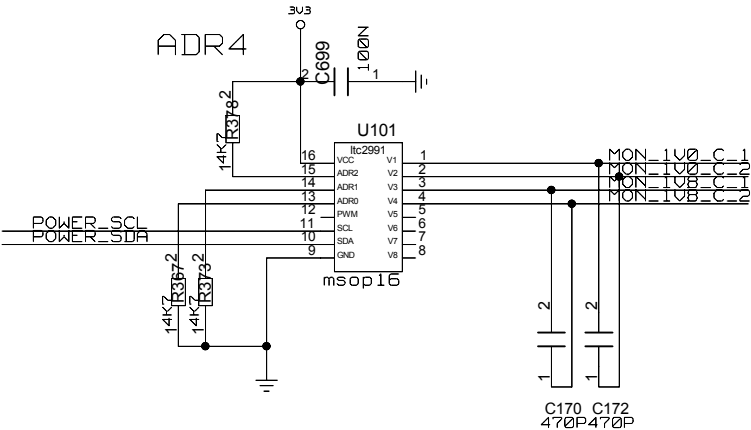
U2 CORE POWER MONITOR



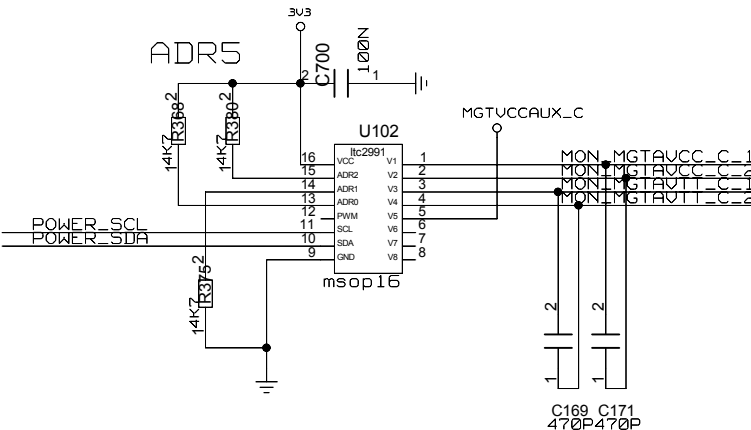
U2 MGT POWER MONITOR



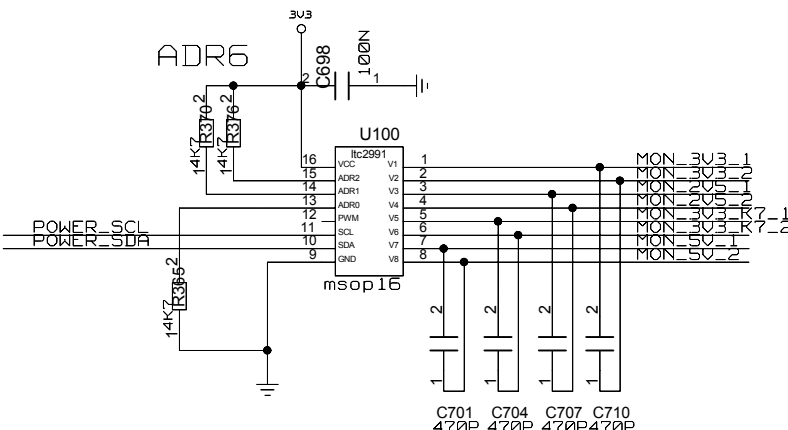
U3 CORE POWER MONITOR



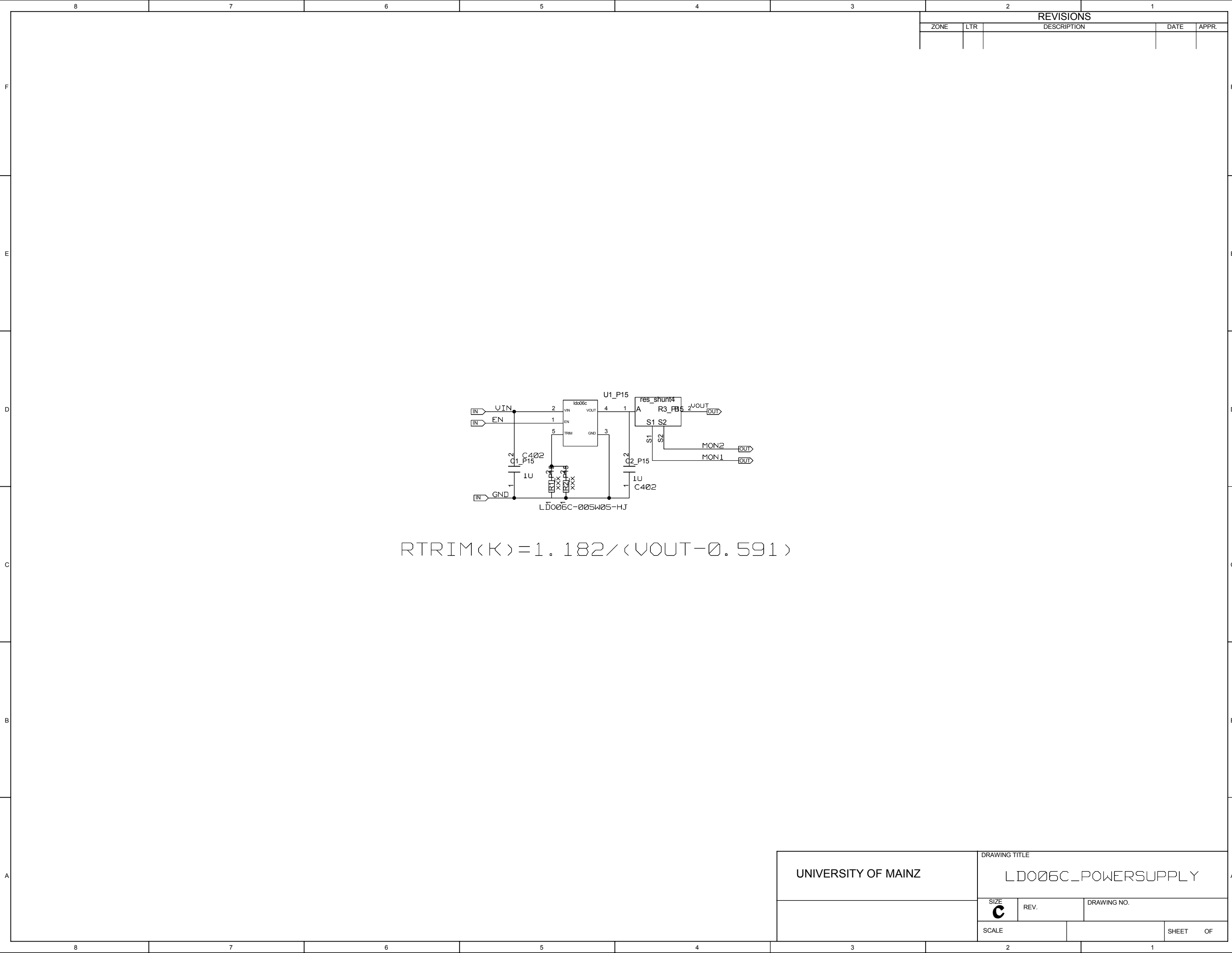
U3 MGT POWER MONITOR



2V5, 3V3 POWER MONITOR

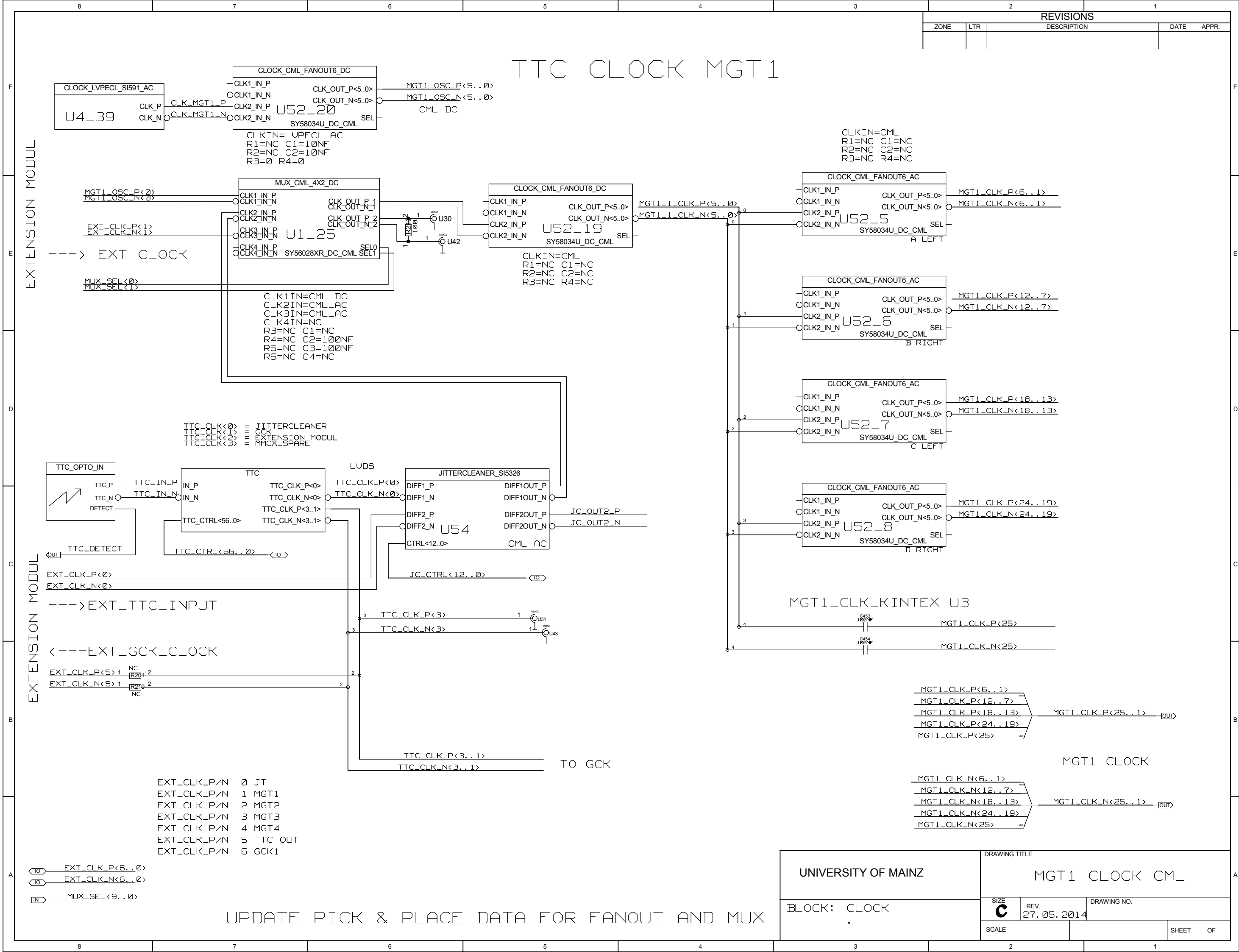


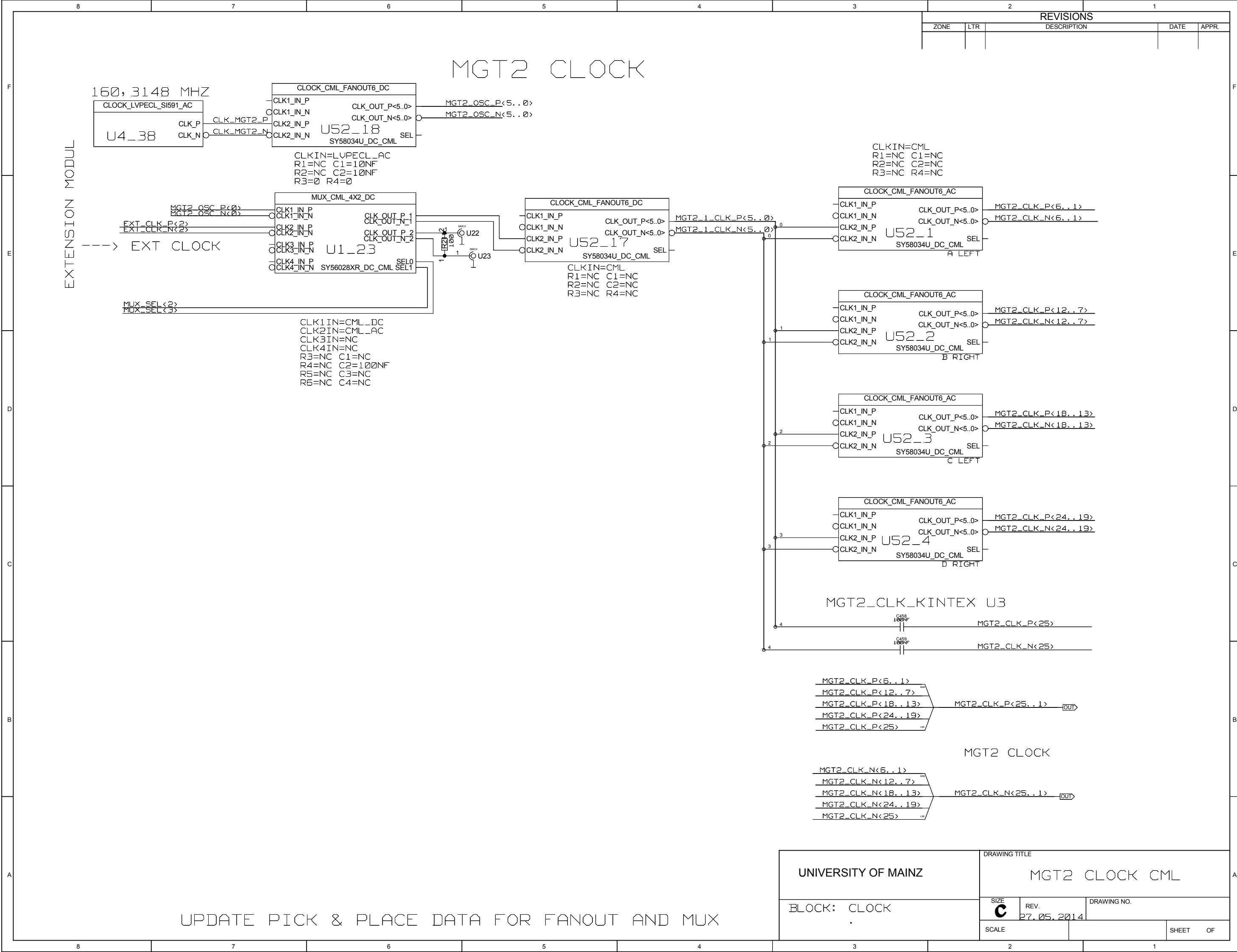
UNIVERSITY OF MAINZ		DRAWING TITLE		
		I2C POWERSUPPLY MONITORING		
SIZE		REV.	DRAWING NO.	
C		26. 05. 2014		
SCALE				SHEET OF



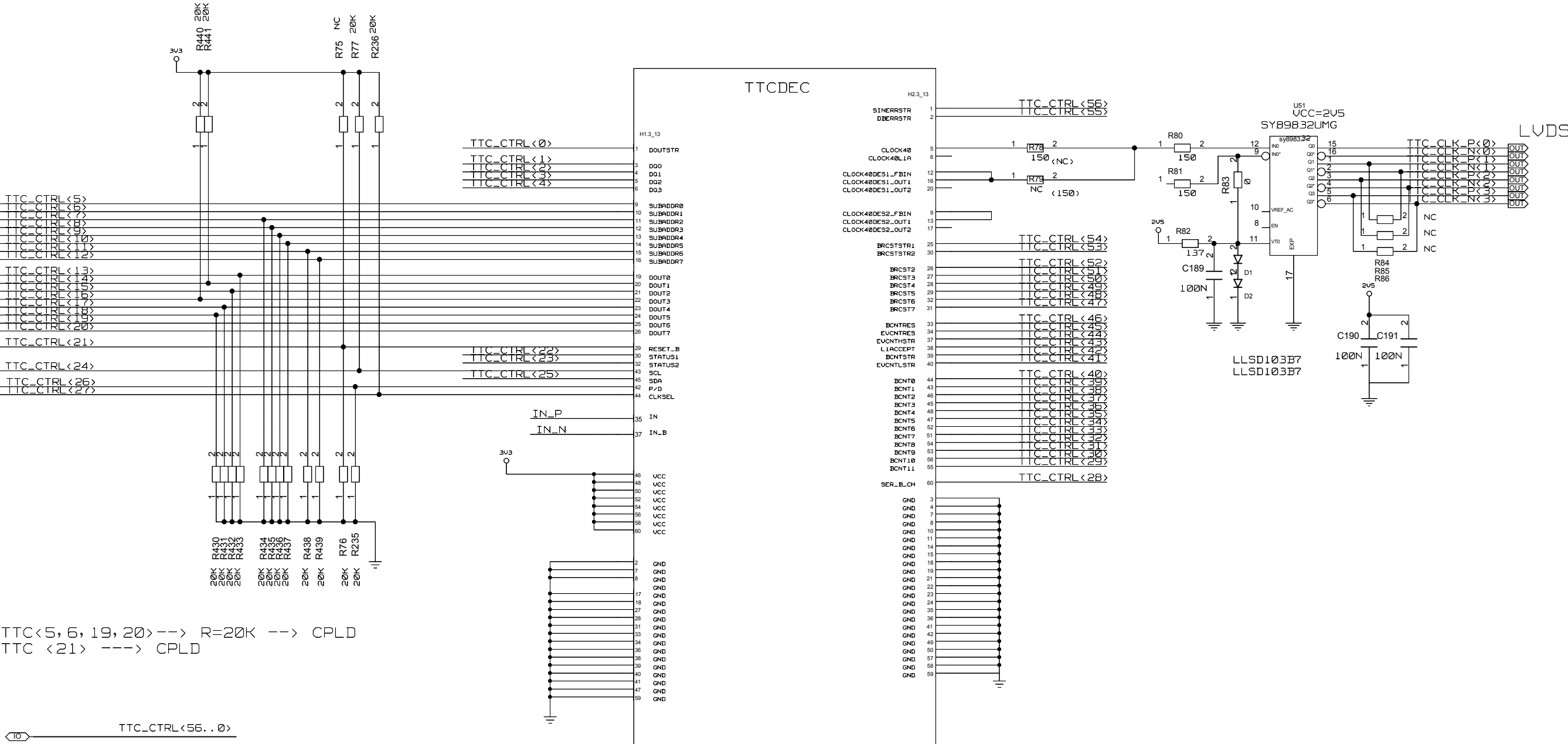
8		7		6		5		4		3		2		1		

$$R_{TRIM}(K) = 1.182 / (V_{OUT} - 0.591)$$

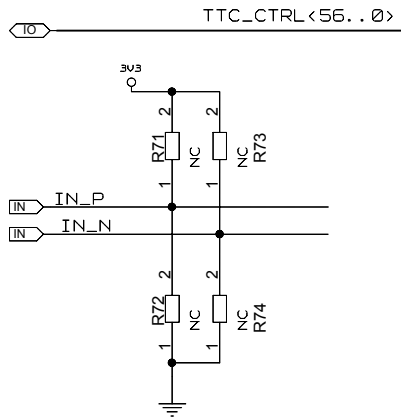




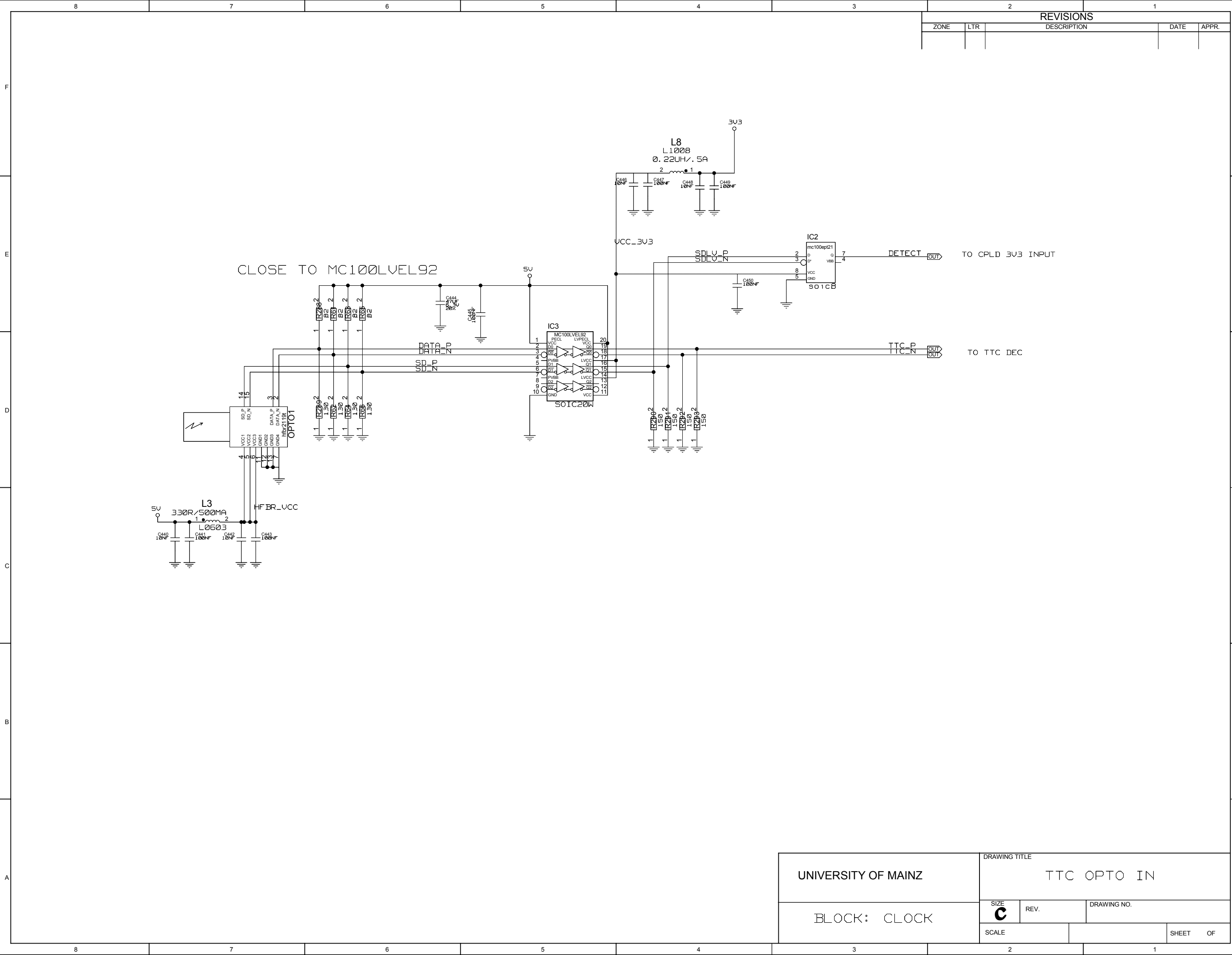
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



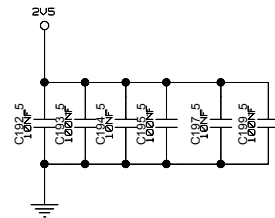
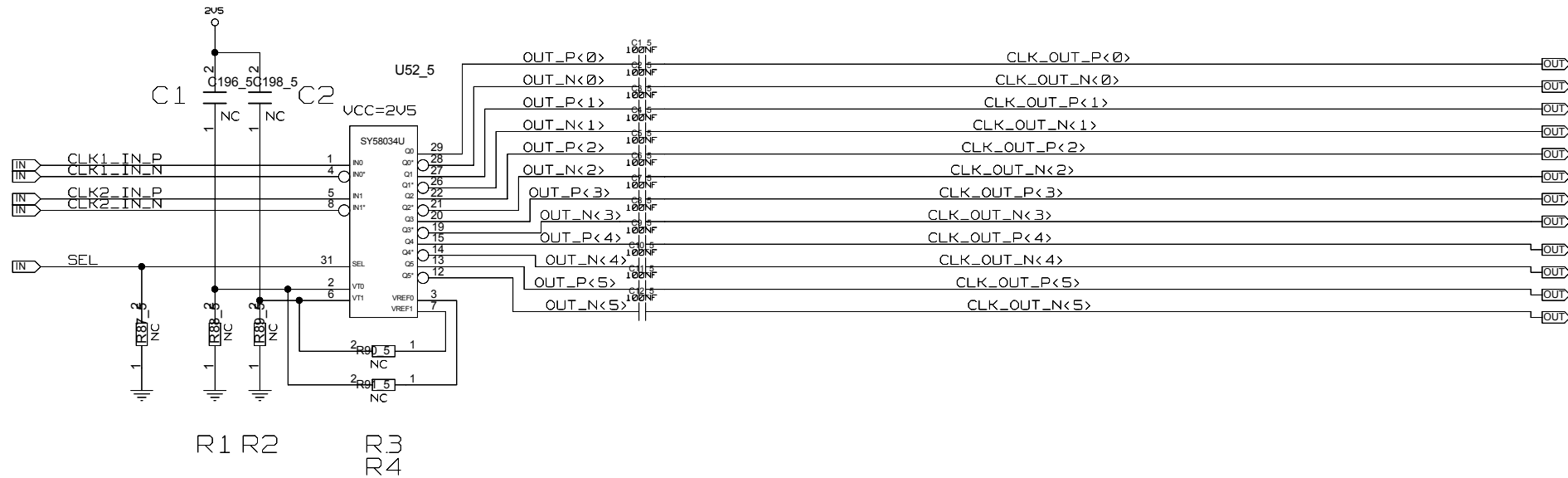
TTC<5, 6, 19, 20>--> R=20K --> CPLD
TTC <21> ----> CPLD



UNIVERSITY OF MAINZ		30.05.2014 U. SCHAEFFER		
		DRAWING TITLE TTC		
SCALE	SIZE C	REV. 30.05.2014	DRAWING NO.	
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INPUT INTERFACE APPLICATIONS

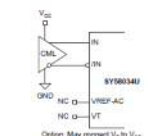


Figure 3a. CML Interface (DC-Coupled)

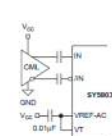


Figure 3b. CML Interface (AC-Coupled)

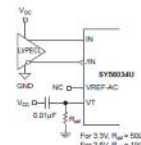


Figure 3c. LVPECL Interface (DC-Coupled)

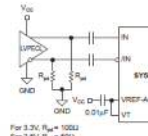


Figure 3d. LVPECL Interface (AC-Coupled)

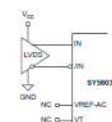
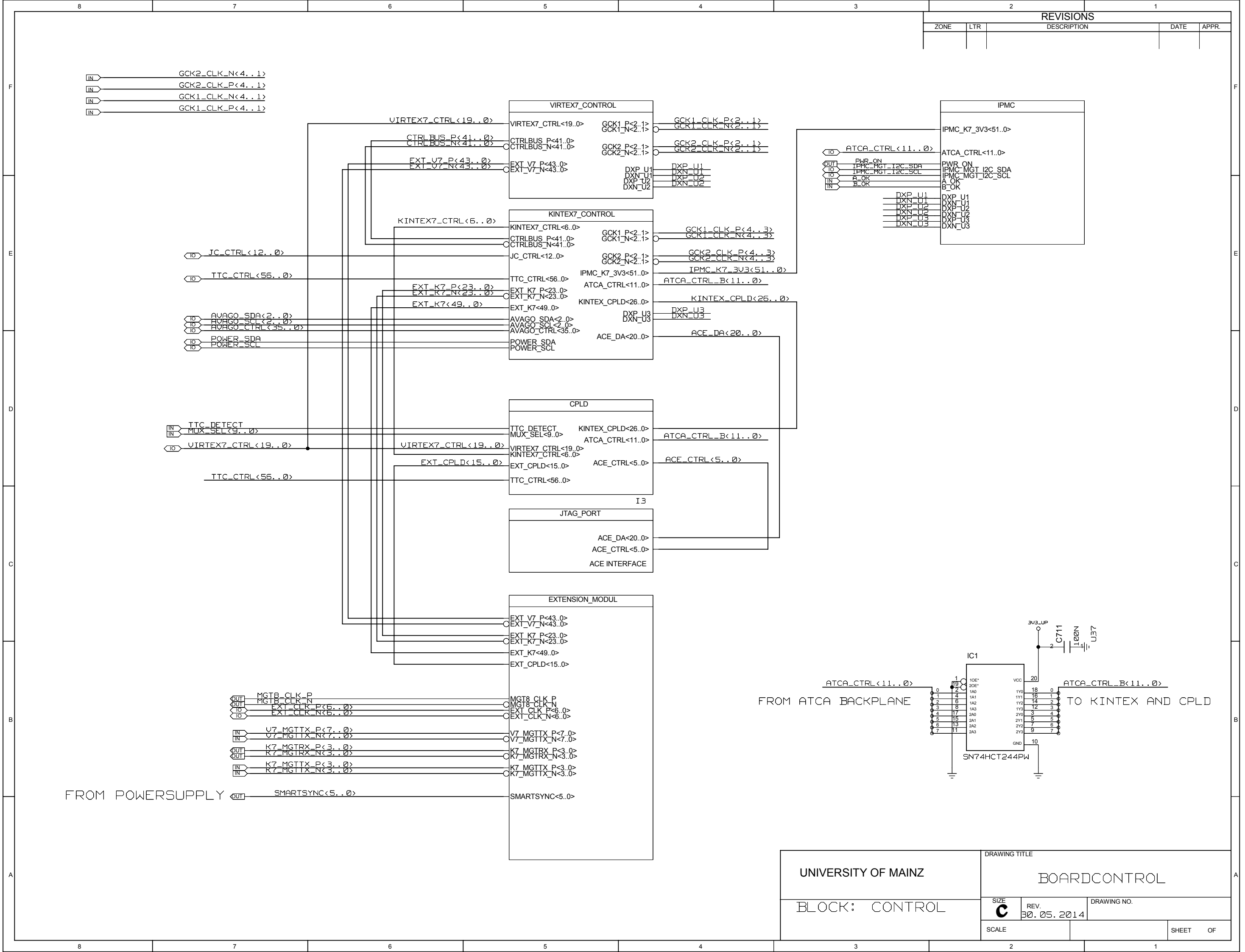
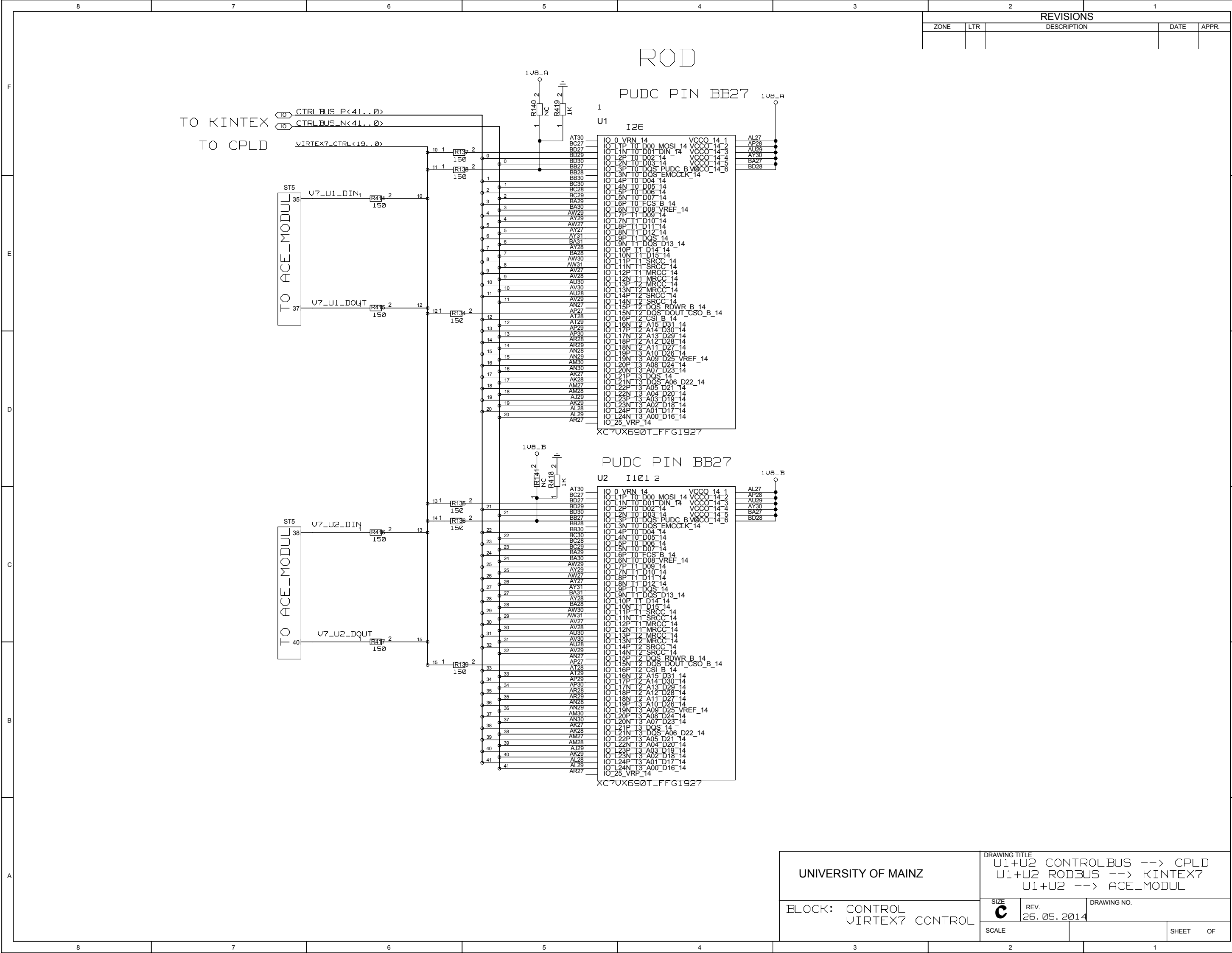


Figure 3e. LVDS Interface

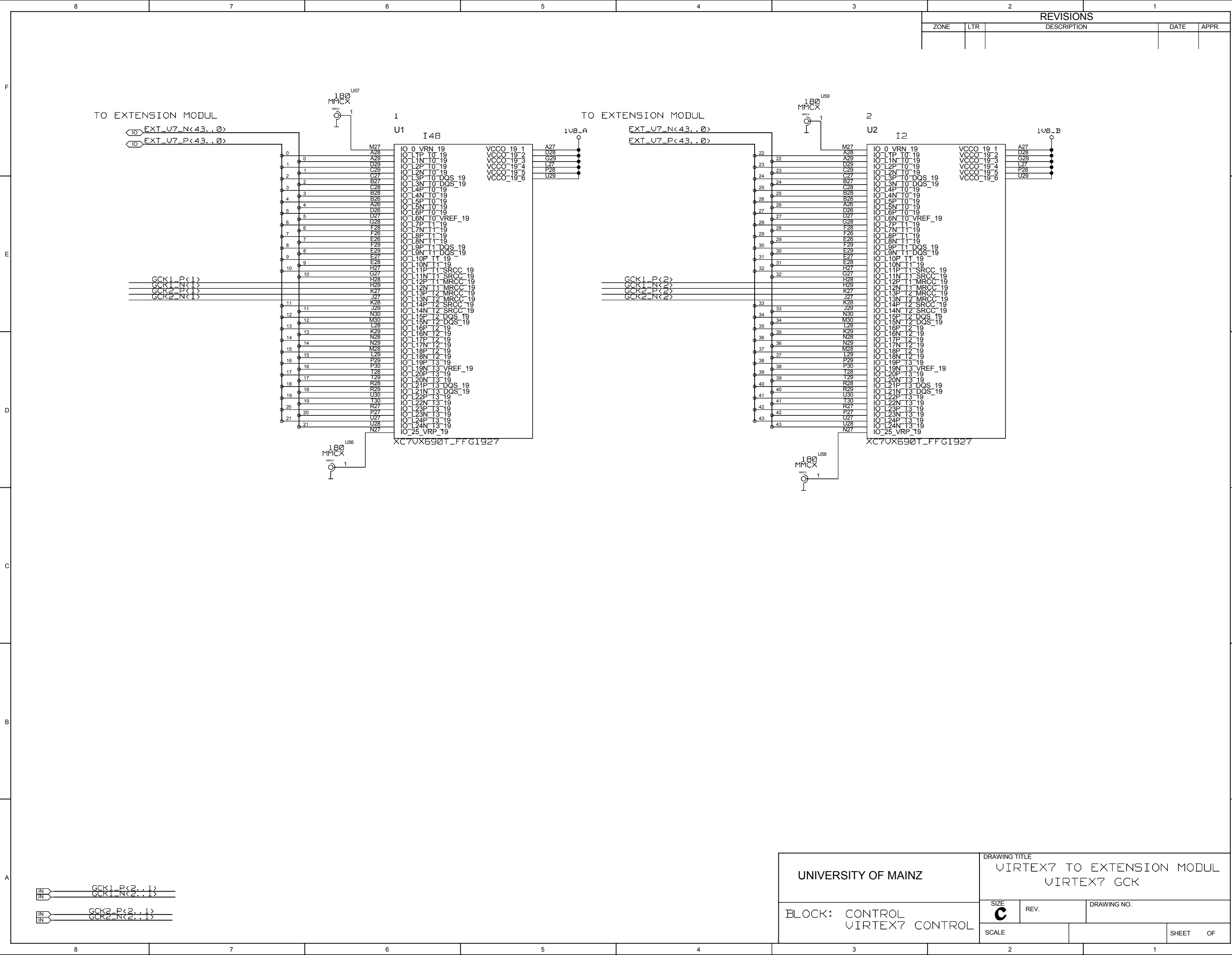
UNIVERSITY OF MAINZ		DRAWING TITLE		
BLOCK: CLOCK		CLOCK CML FANOUT6 AC		
SIZE	REV.	DRAWING NO.		
SCALE				SHEET OF

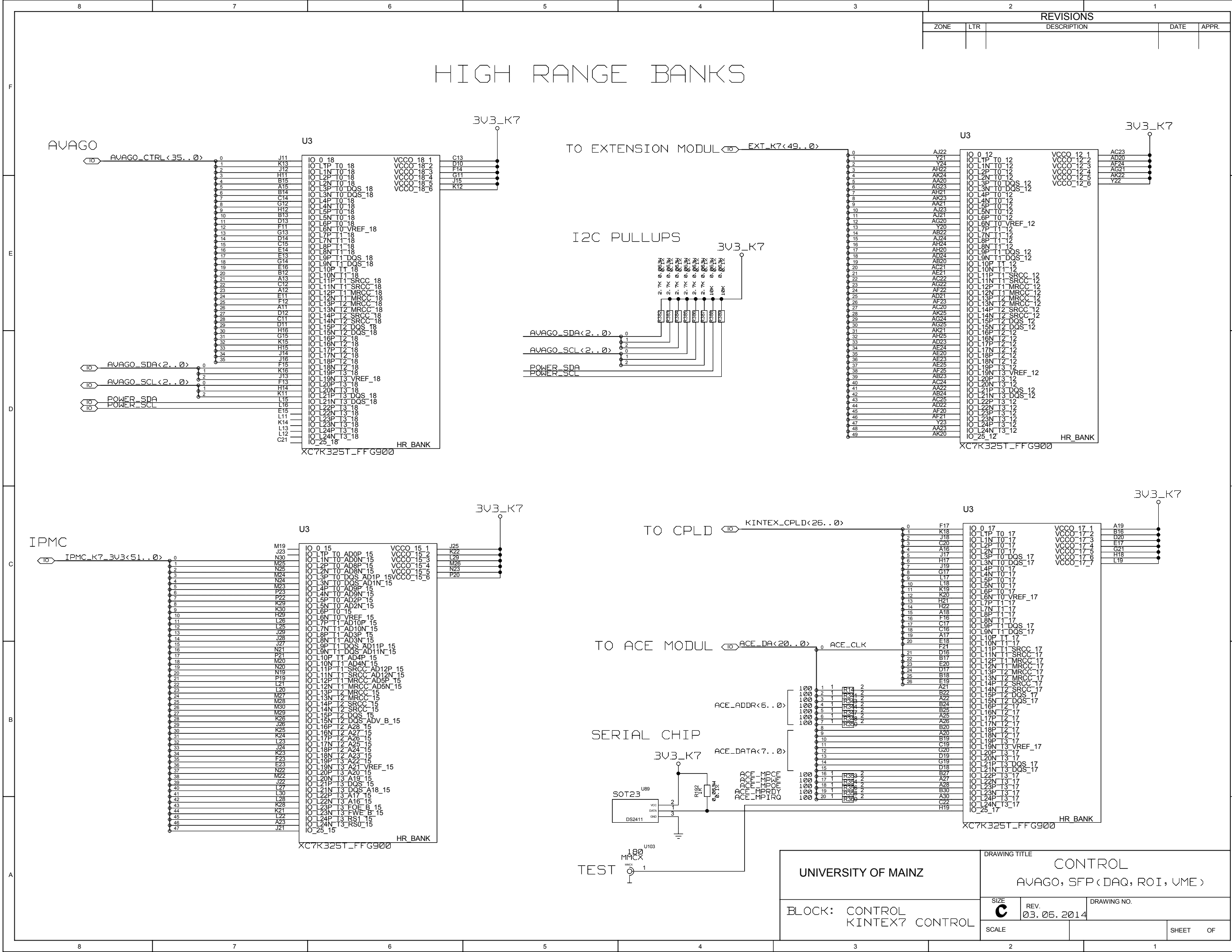


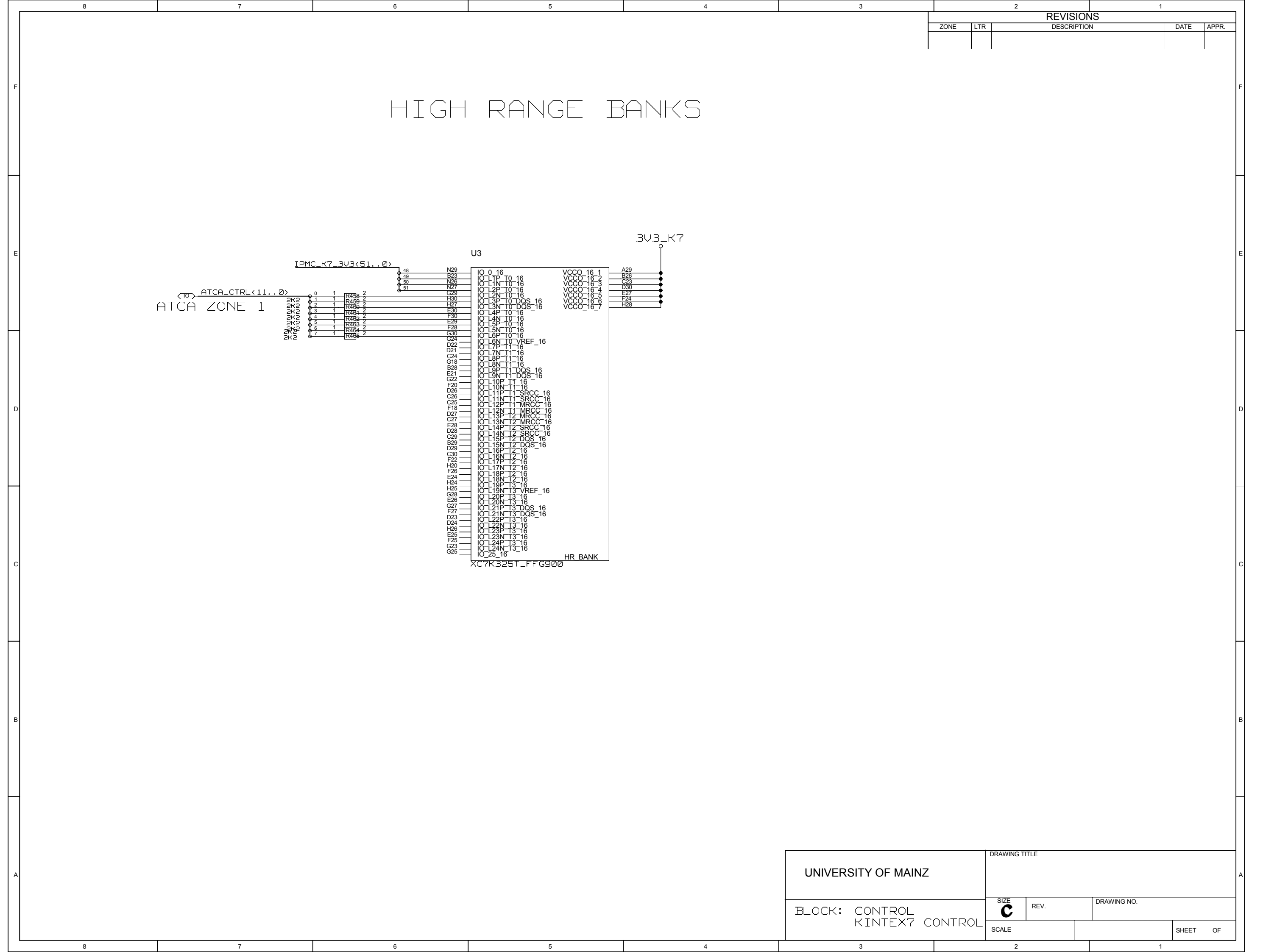


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UNIVERSITY OF MAINZ		DRAWING TITLE		
		U1+U2 CONTROLBUS --> CPLD U1+U2 RODBUS --> KINTEX7 U1+U2 --> ACE_MODULE		
BLOCK: CONTROL VIRTEX7 CONTROL		SIZE	REV.	DRAWING NO.
		C	26.05.2014	
SCALE		SHEET		OF







UNIVERSITY OF MAINZ

BLOCK: CONTROL KINTEX7 CONTROL

DRAWING TITLE

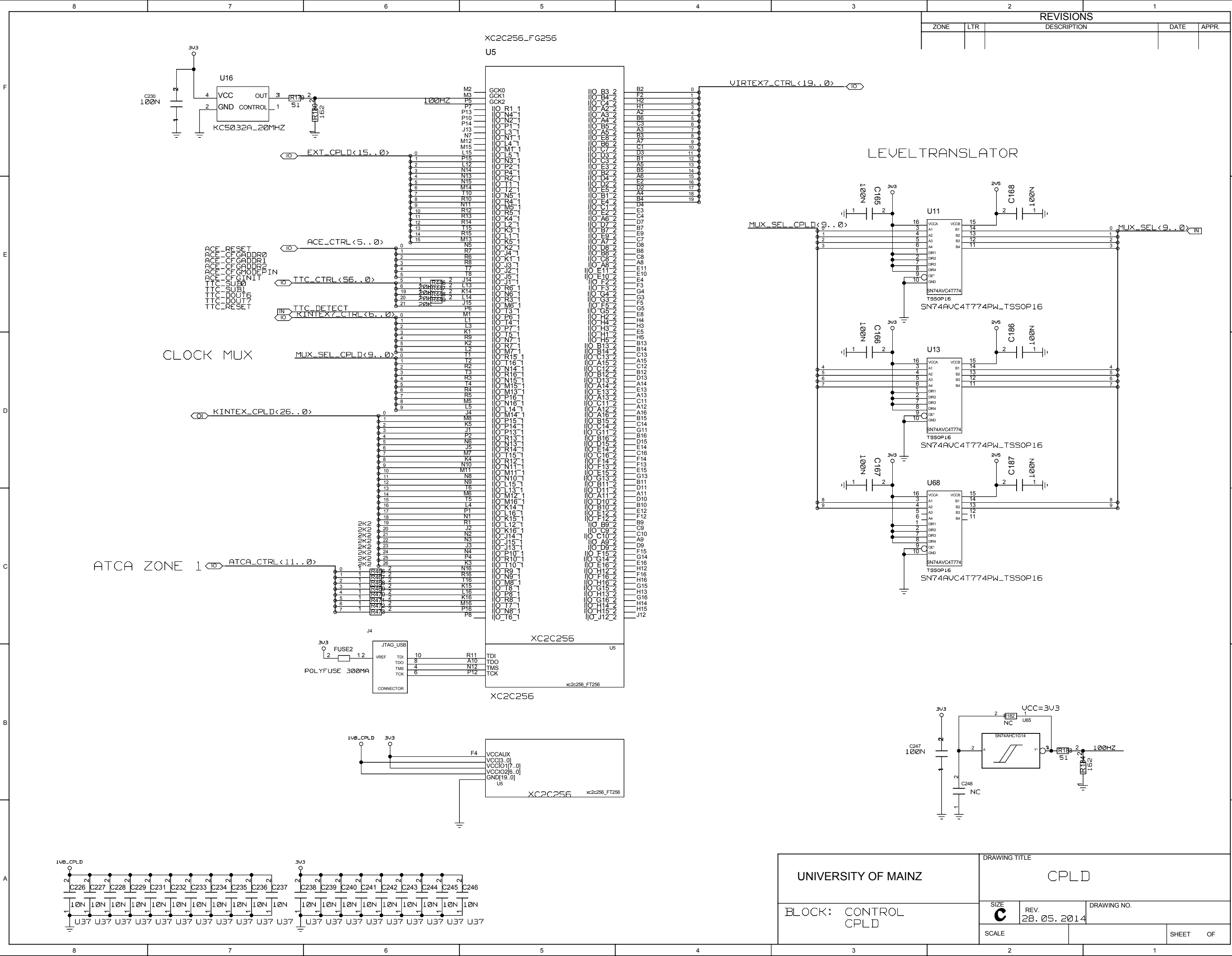
SIZE

REV.

DRAWING NO.

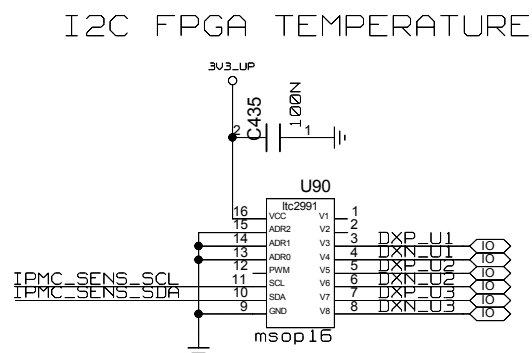
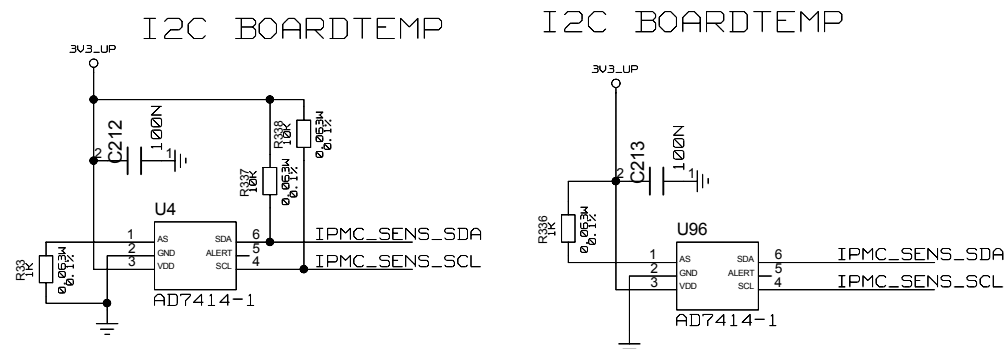
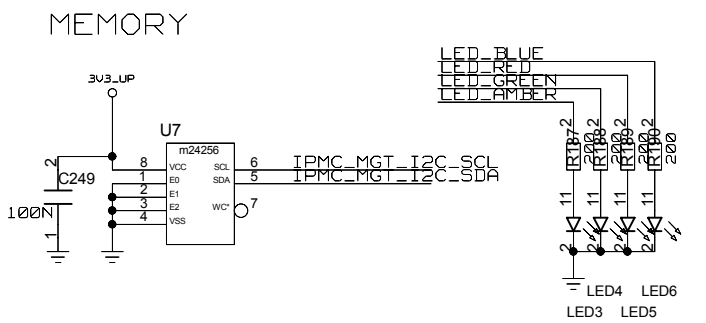
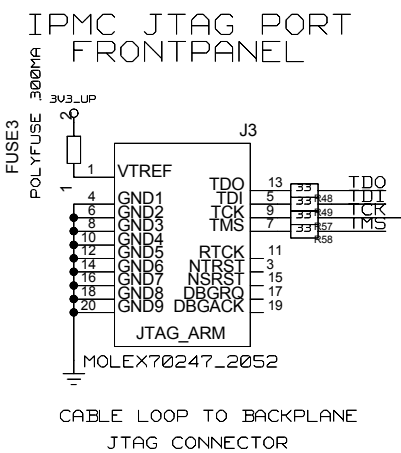
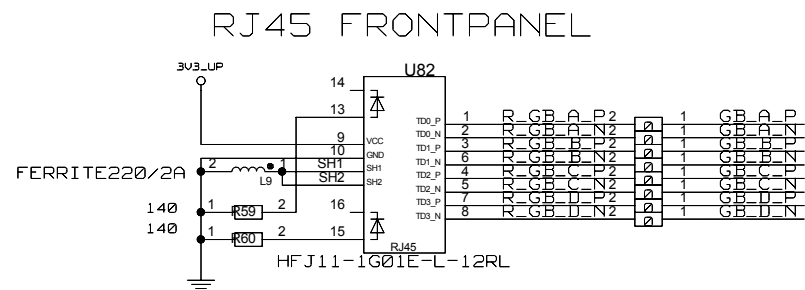
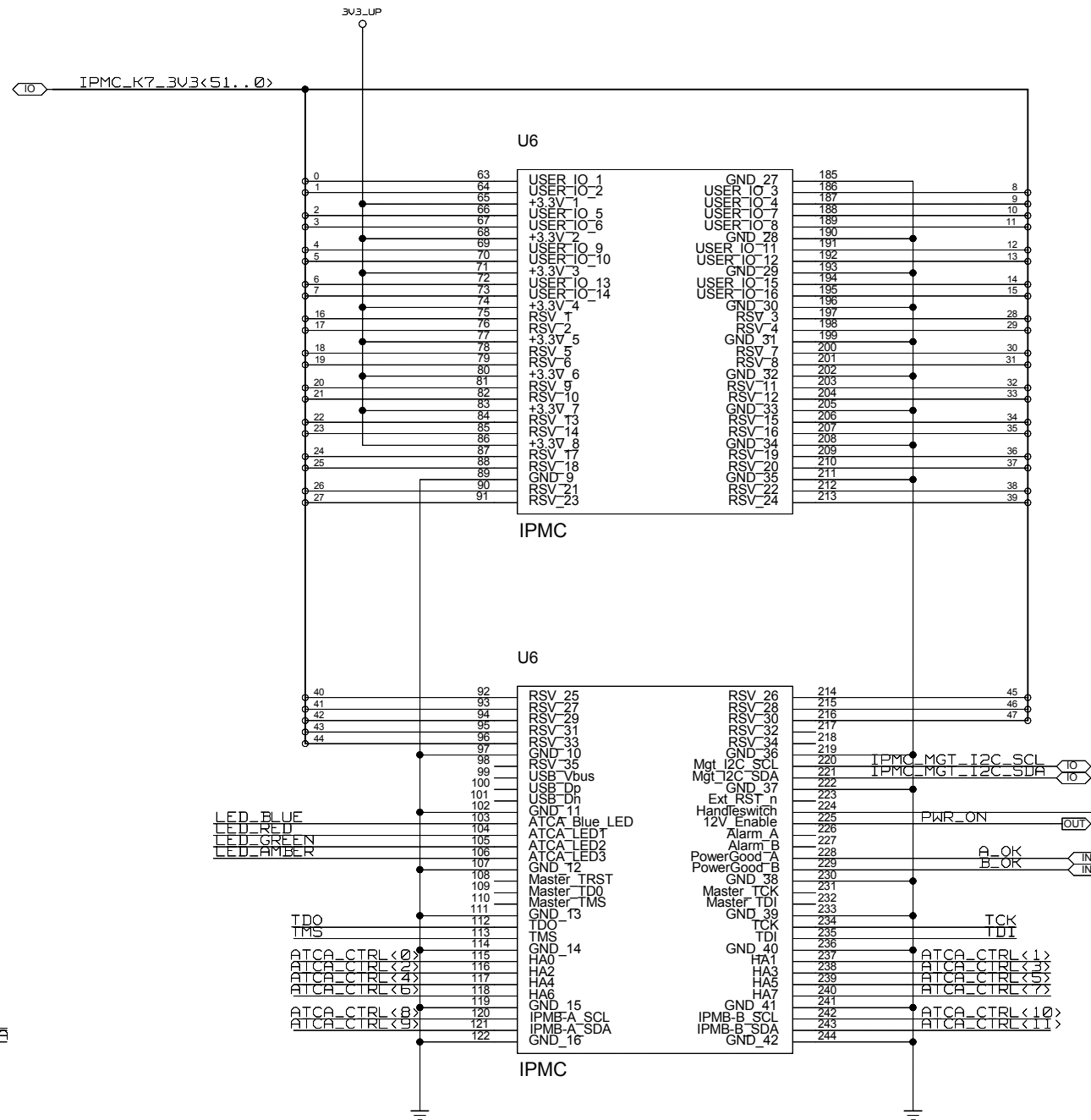
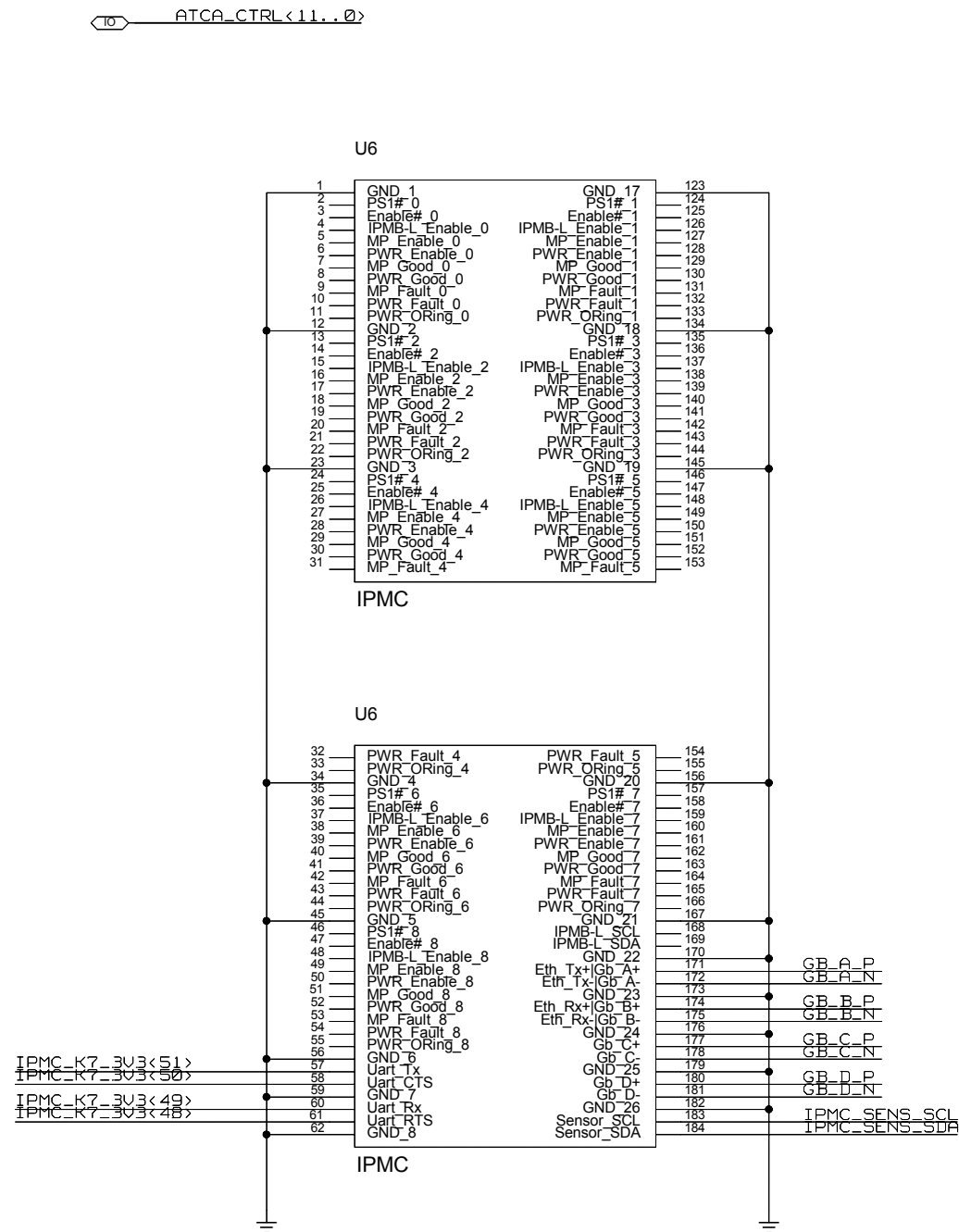
SCALE

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IPMC MOLEX_87782-3003



UNIVERSITY OF MAINZ	DRAWING TITLE		
	ATCA CONTROL		
BLOCK: CONTROL IPMC	SIZE C	REV.	DRAWING NO.
	SCALE		SHEET OF

