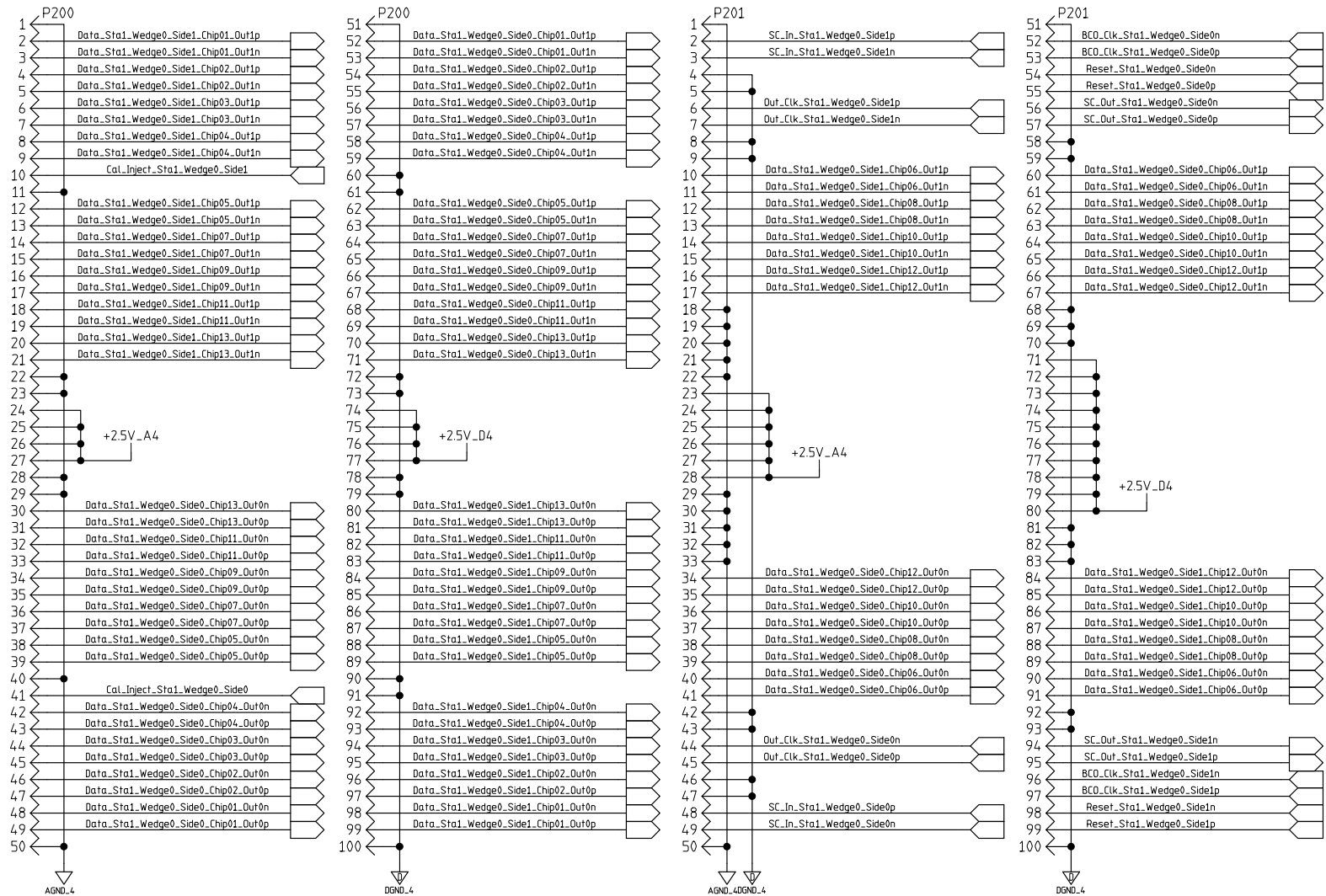


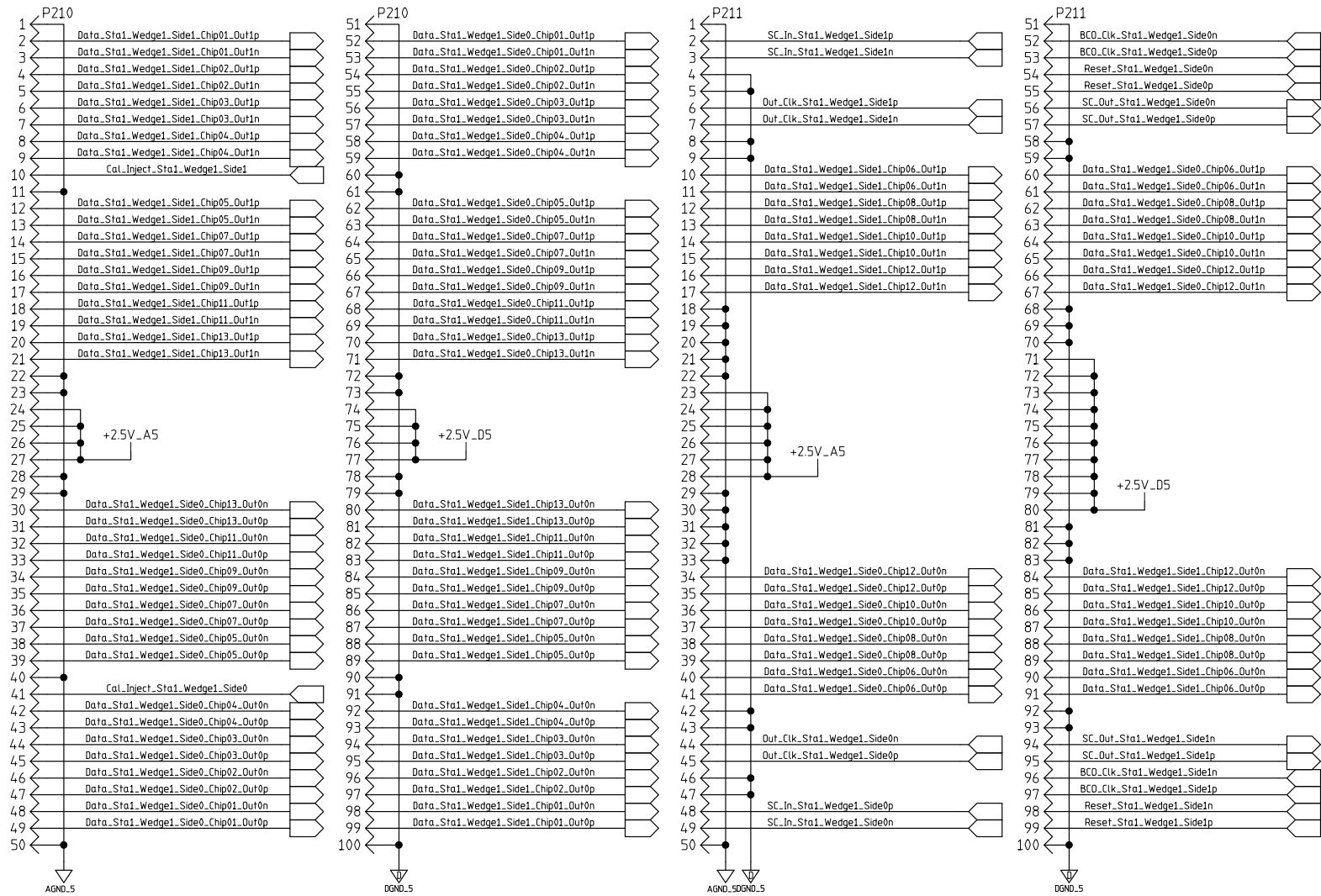
Station 0

—		ORIGINAL ISSUE				—	—	—	—
DESIGN LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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					PART: U		DRAWING: U		
					TITLE		<div style="text-align: center;"> <p>(P-25)</p> <p>FVTX</p> <p>ROC PROTOTYPE</p> <p>SIGNAL CONNECTORS-STATION 0</p> </div>		
					MENTOR 2005				
	NAME	SIGNATURE	DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED)				
ORIGINATED					$X_a \pm \text{---}$ $0.XXa \pm \text{---}$ ANGULAR $\pm \text{---}$ $0.Xa \pm \text{---}$ $0.XXXa \pm \text{---}$ FINISH $\pm \text{---}$				
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PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED									
RELEASED									



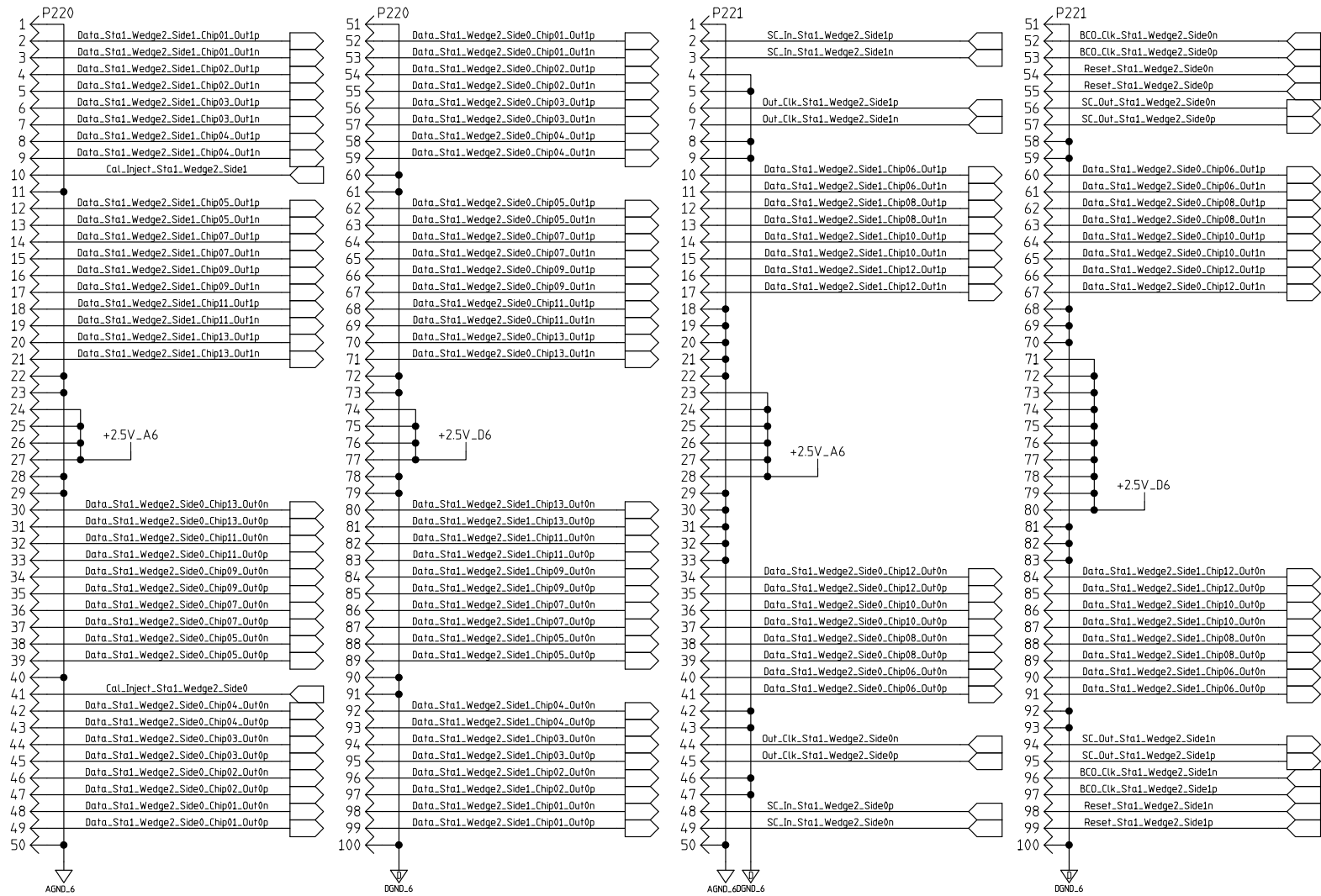
Station 1 Wedge 0

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						PART: U		DRAWING: U					
						TITLE							
						(P-25)							
						FVTX							
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						TOLERANCE (UNLESS OTHERWISE NOTED)							
						X _α ± _____ 0.XX _α ± _____ ANGULAR ± _____							
						0.X _α ± _____ 0.XXX _α ± _____ FINISH ± _____							
APPROVED						SCALE		NO. SHEETS		DRAWING NO.			
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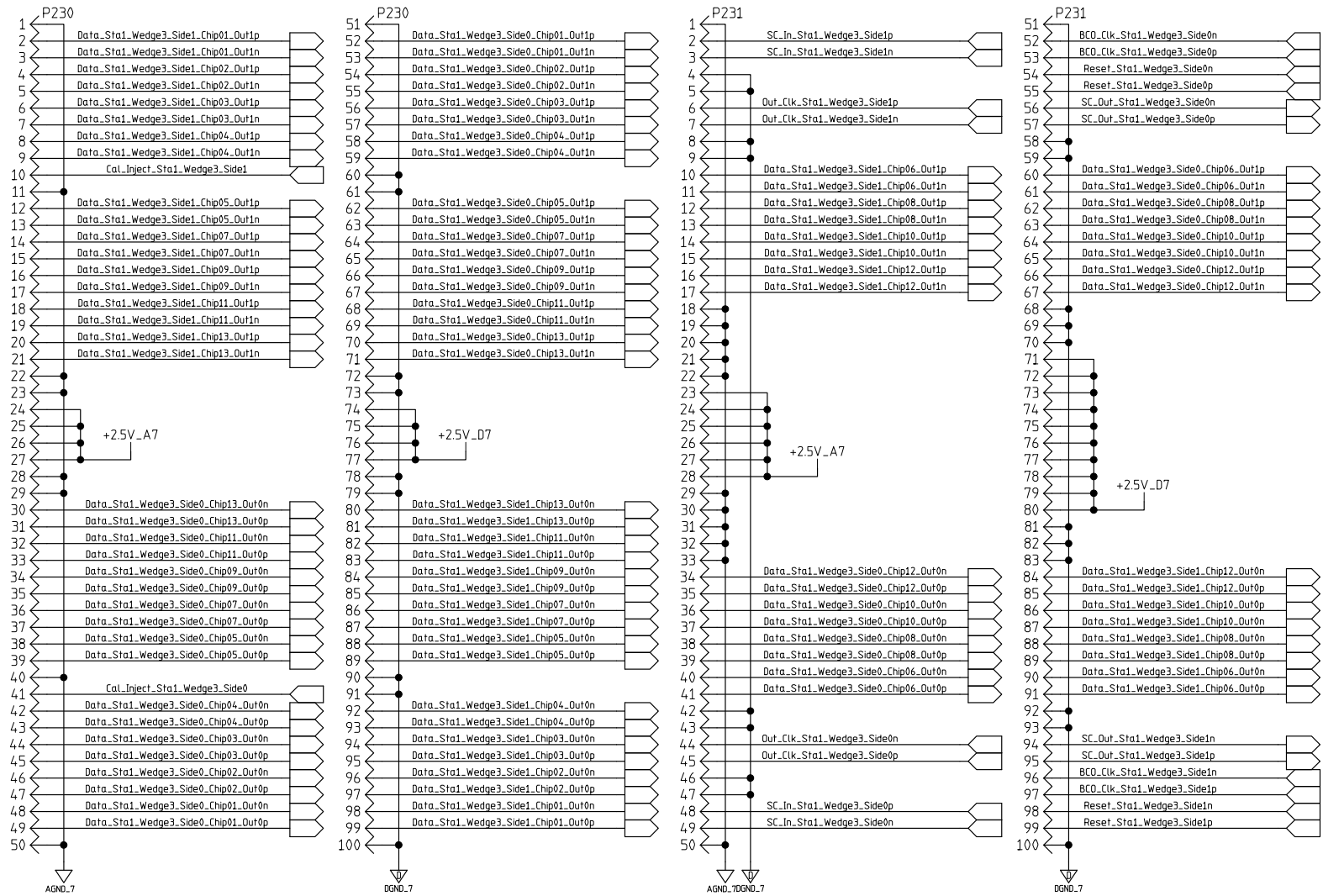
Station 1 Wedge 1

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						PART: U		DRAWING: U					
						TITLE							
						(P-25)							
						FVTX							
MENTOR 2005						ROC PROTOTYPE							
						SIGNAL CONNECTORS-STATION 1							
ORIGINATED	NAME	SIGNATURE		DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED)							
DESIGNED						X= ± _____ 0.XX= ± _____ ANGULAR ± _____							
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PROJ. ENGR.	M. PROKOP	M. PROKOP		APR 2009	AOT-RFE	N/A 1		126Y-267898				D 3	
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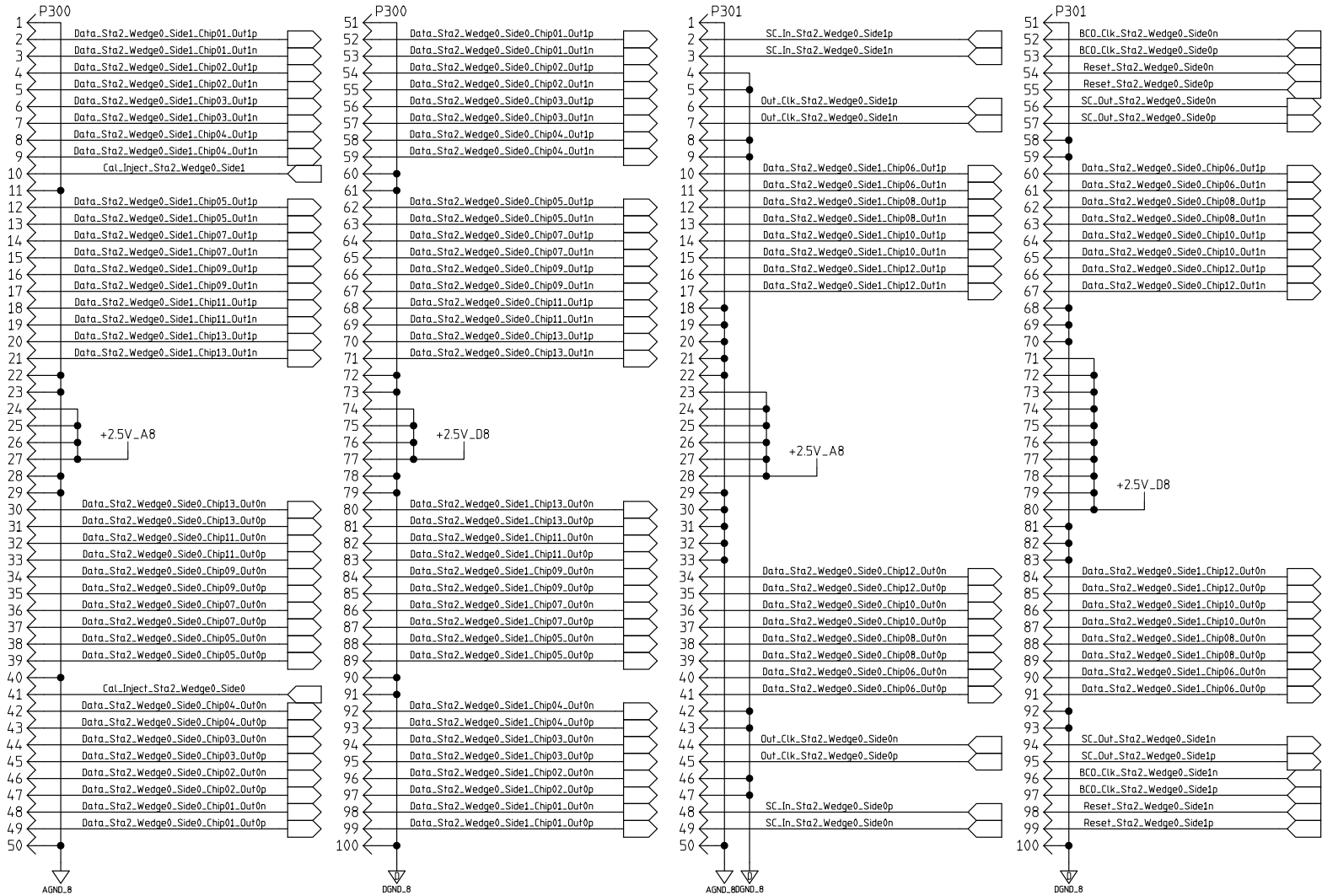
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						PART: U		DRAWING: U	
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						FVTX			
MENTOR 2005						ROC PROTOTYPE			
						SIGNAL CONNECTORS-STATION 1			
	NAME	SIGNATURE	DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED) X= ± _____ 0.XX= ± _____ ANGULAR ± _____ 0.X= ± _____ 0.XXX= ± _____ FINISH ± _____				
ORIGINATED									
DESIGNED									
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CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	SCALE NO. SHEETS DRAWING NO. SIZE SHEET NO. N/A 1 126Y-267898 D 4				
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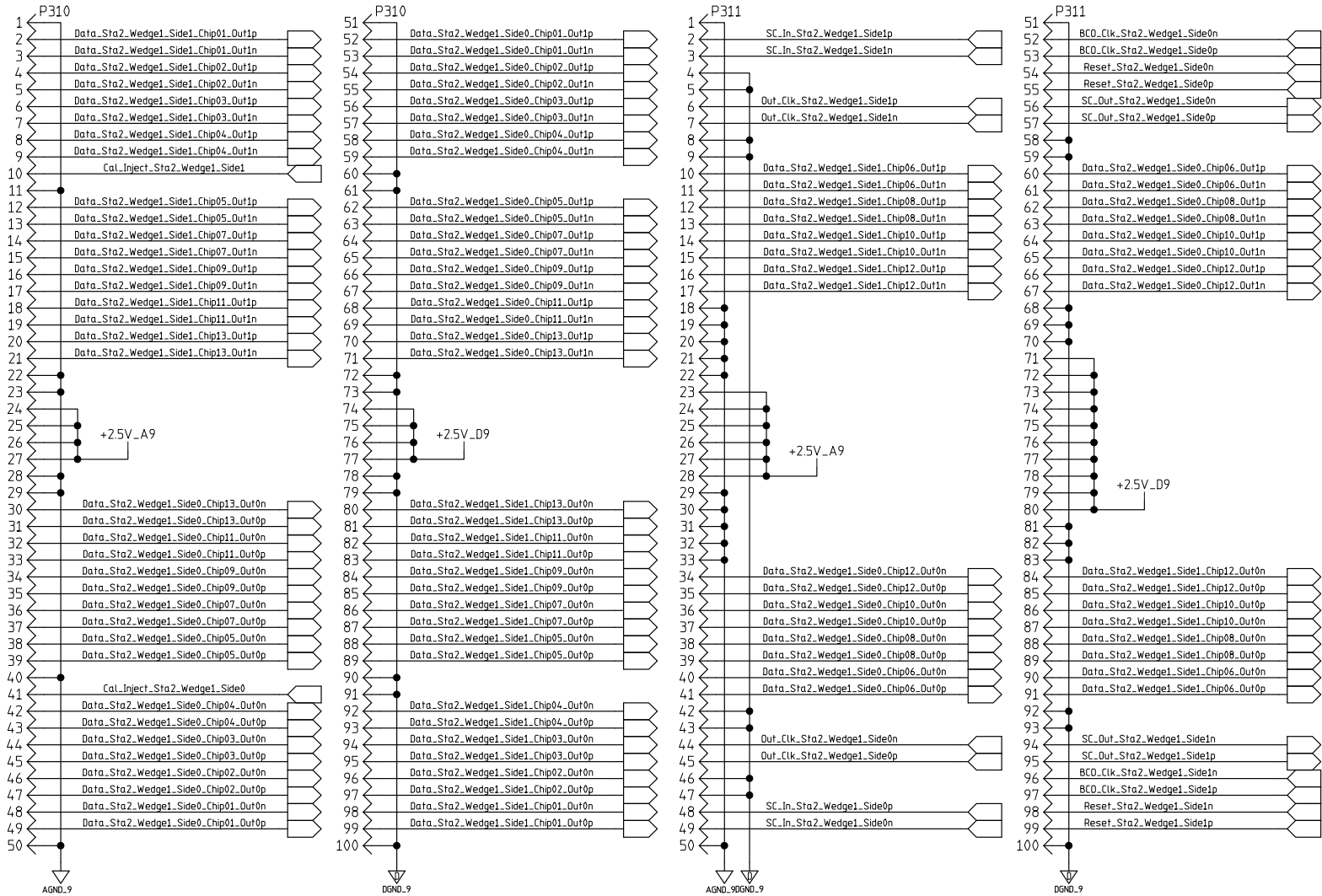
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														ROC PROTOTYPE				
MENTOR 2005							SIGNAL CONNECTORS-STATION 1											
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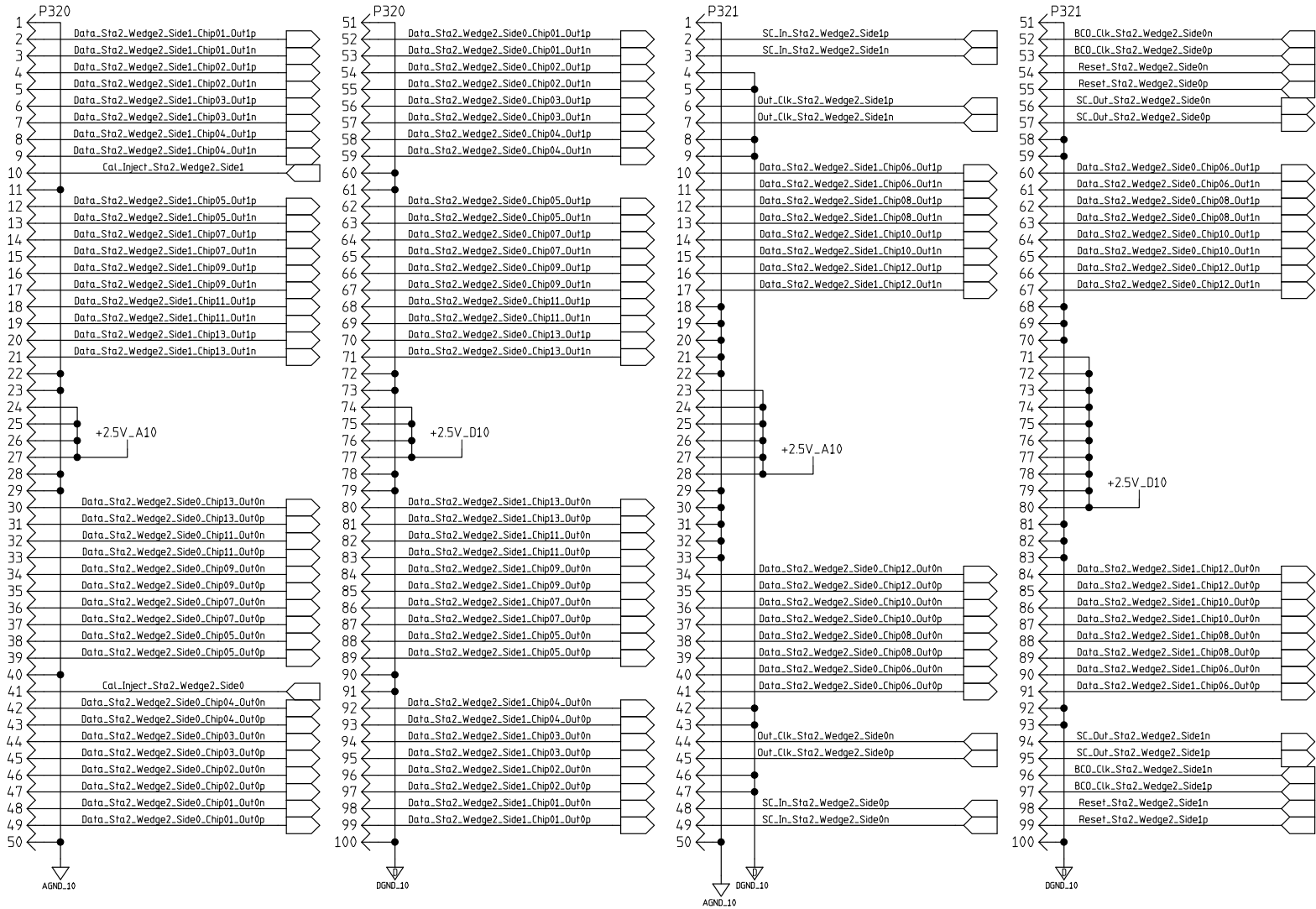
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MENTOR 2005							TOLERANCE (UNLESS OTHERWISE NOTED) X= ± ——— 0.XX= ± ——— ANGULAR ± ——— 0.X= ± ——— 0.XXX= ± ——— FINISH ± ———						
ORIGINATED	NAME	SIGNATURE	DATE	GROUP									
DESIGNED													
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PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE									
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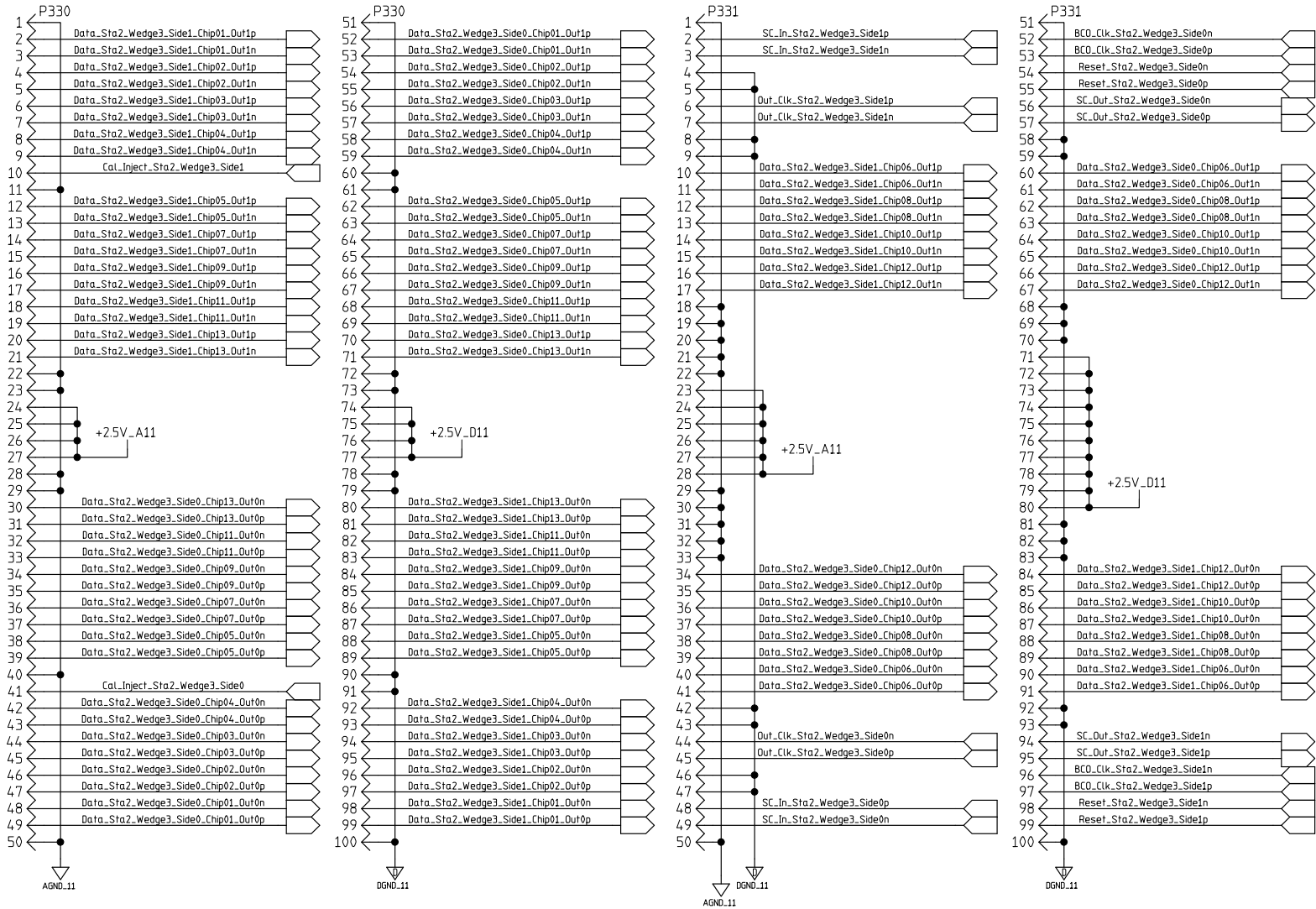
Station 2 Wedge 1

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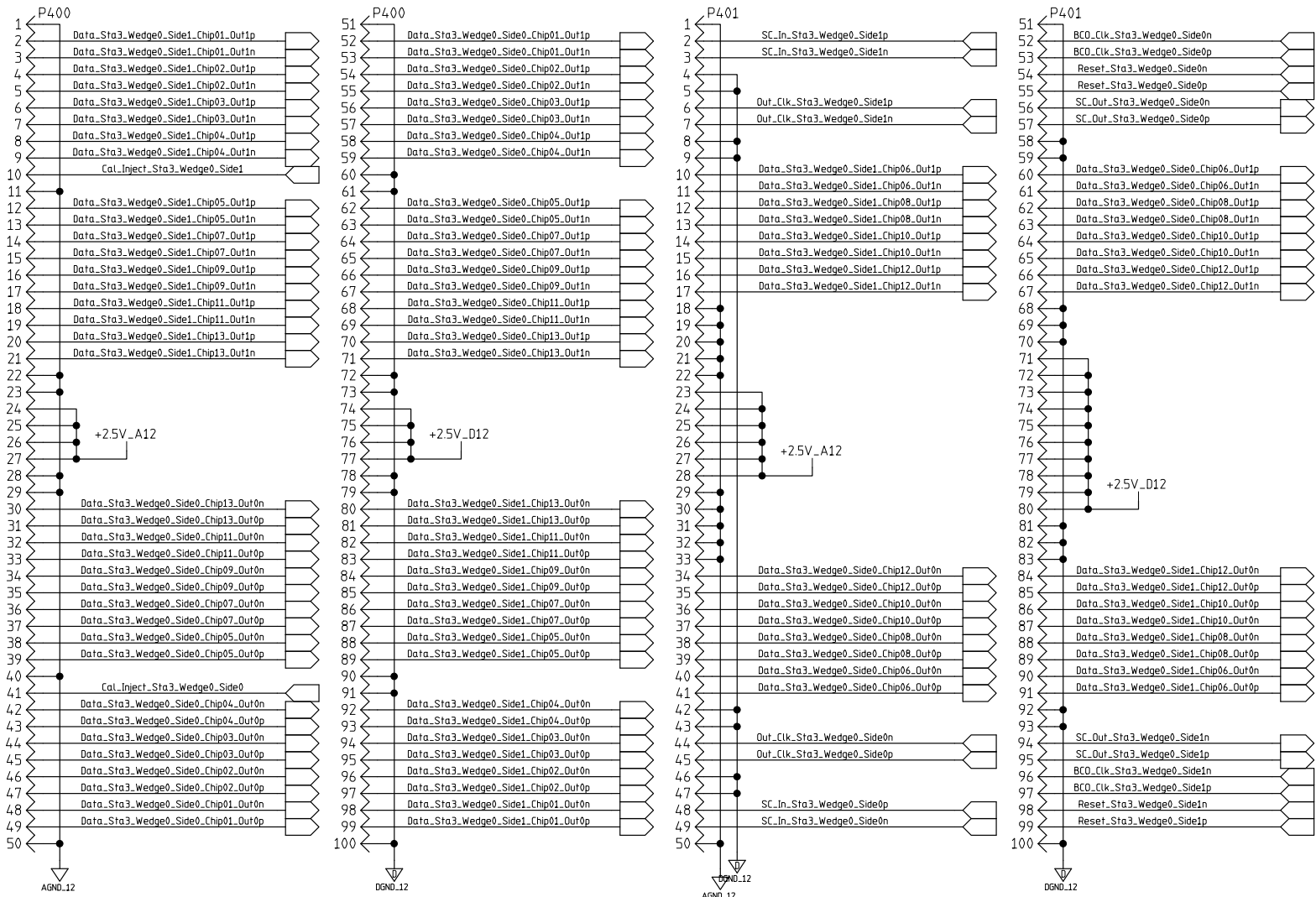
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—		ORIGINAL ISSUE				—	—	—	—
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DRAWN		S. CHACON	S. CHACON	APR 2009	AOT-IC				
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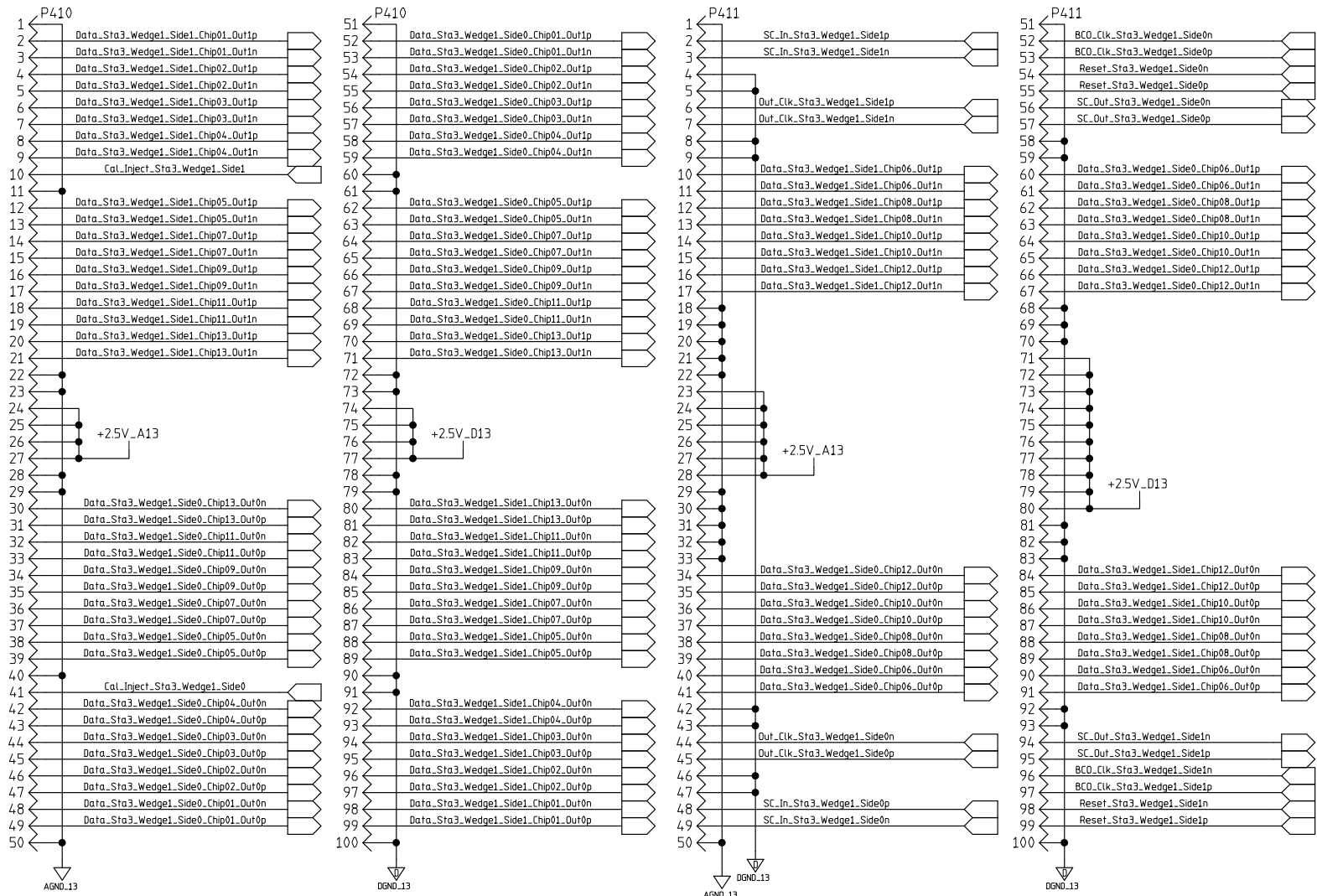
Station 2 Wedge 3

—		ORIGINAL ISSUE		—		—		—		—	
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LOS ALAMOS NATIONAL LABORATORY		TITLE		(P-25)		FVTX		ROC PROTOTYPE		SIGNAL CONNECTORS-STATION 2	
LOS ALAMOS, NEW MEXICO 87545		MENTOR 2005		NAME		SIGNATURE		DATE		GROUP	
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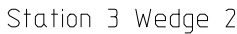
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MENTOR 2005				TITLE			
				(P-25)			
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				ROC PROTOTYPE			
				SIGNAL CONNECTORS-STATION 3			
TOLERANCE (UNLESS OTHERWISE NOTED)							
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Station 3 Wedge 1

—		ORIGINAL ISSUE				—	—	—	—
REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
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						(P-25)			
						FVTX			
MENTOR 2005						ROC PROTOTYPE			
						SIGNAL CONNECTORS-STATION 3			
	NAME	SIGNATURE	DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED)				
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CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED					SCALE	NO. SHEETS	DRAWING NO.		SIZE SHEET NO.
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LOS ALAMOS

LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

ENTOR 2005

	NAME	SIGNATURE	DATE	GROUP
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J. ENGR.	M. PRURUP	M. PRURUP	APR 2009	AUT-RF
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CLASSIFICATION OF	DRAWING: U
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PART: DRAWING:

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(P. 25)

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BOC BRATO

ROC PROTO

SIGNAL CONNECTOR

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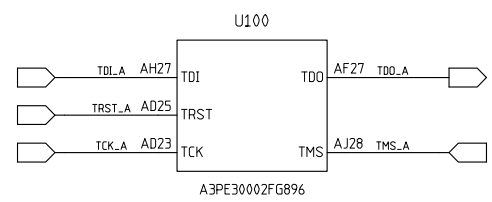
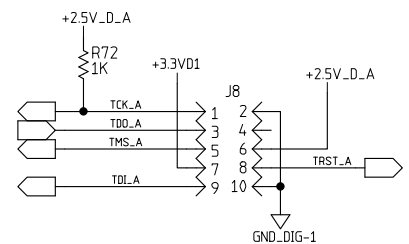
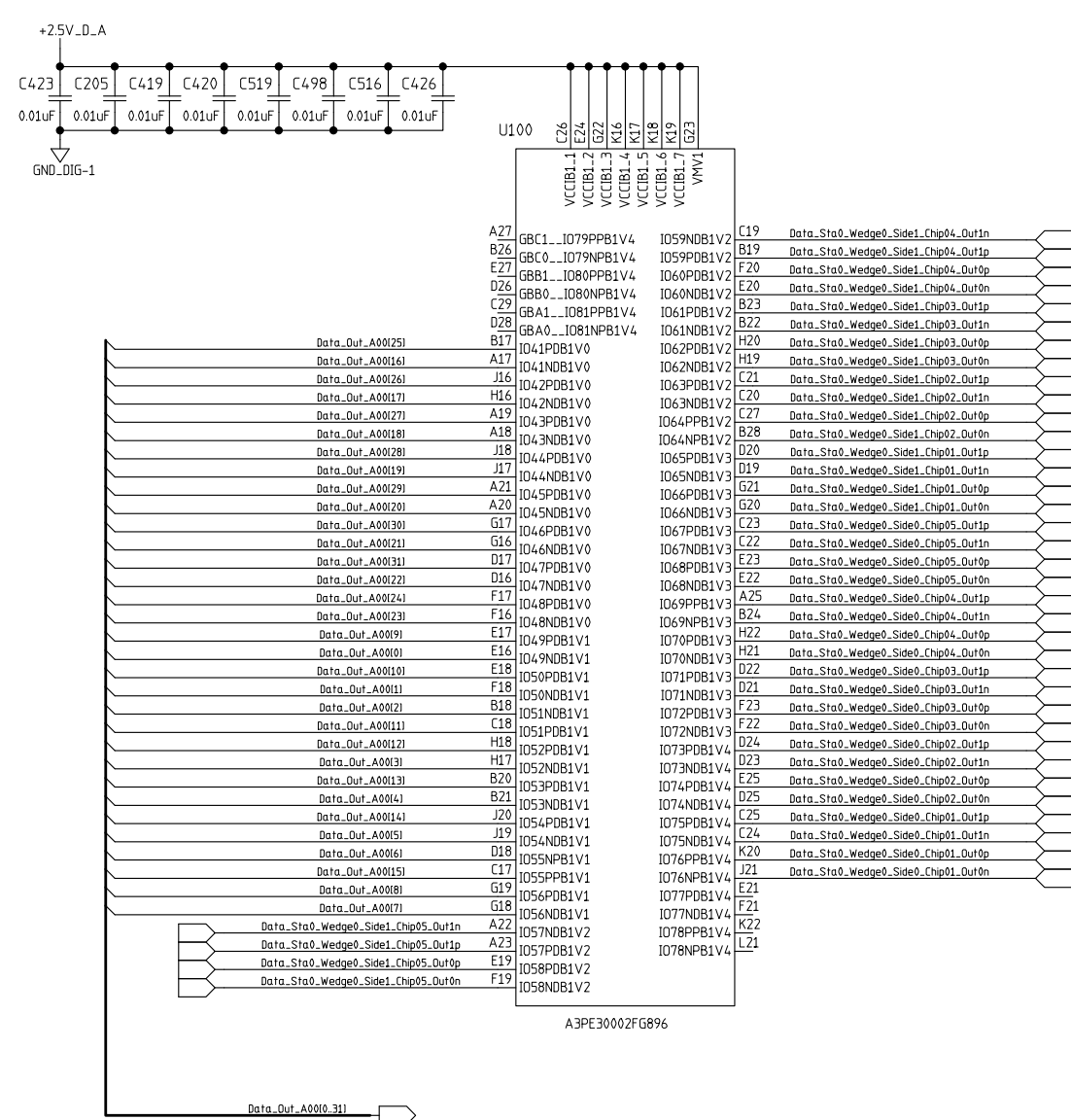
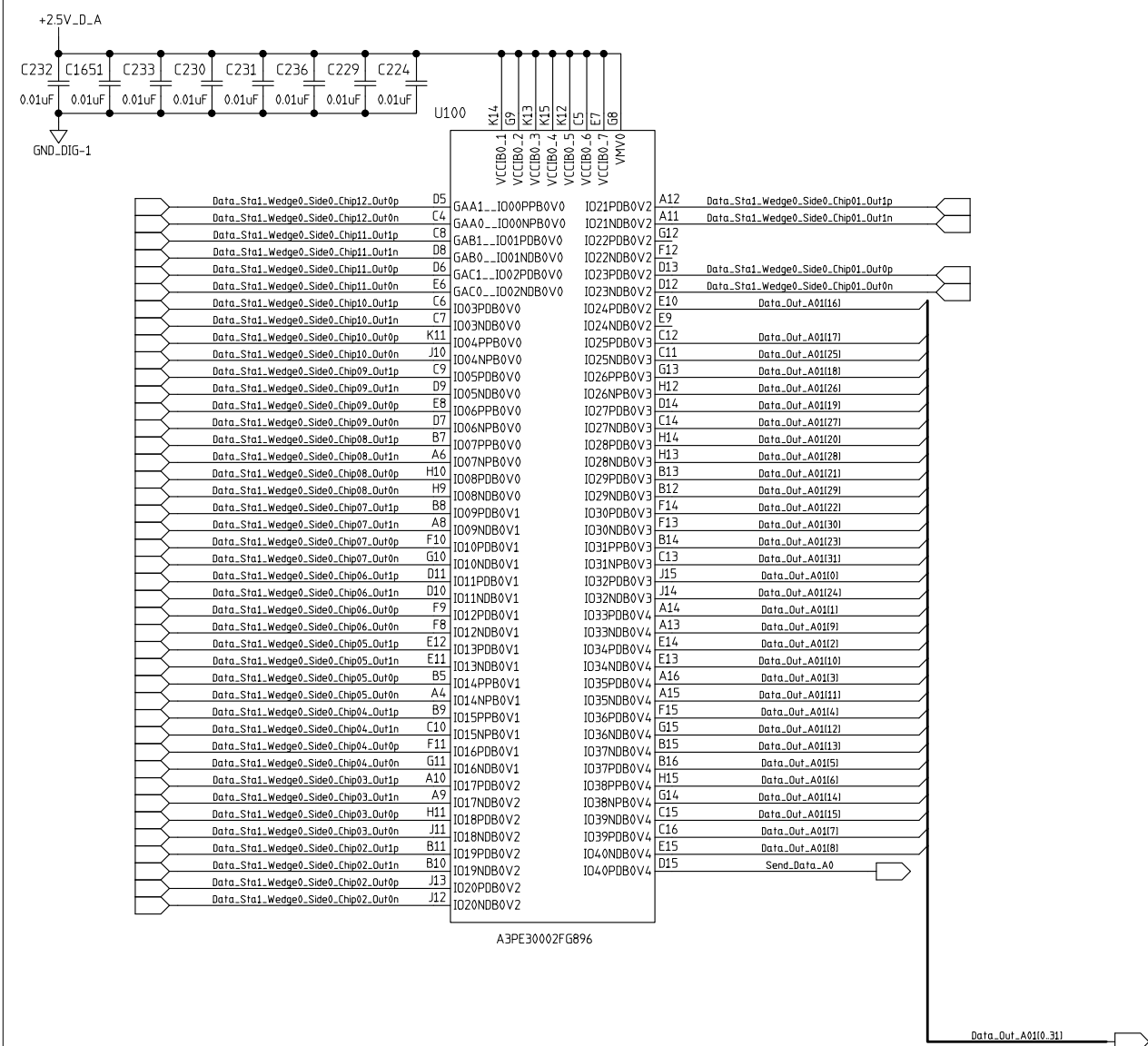
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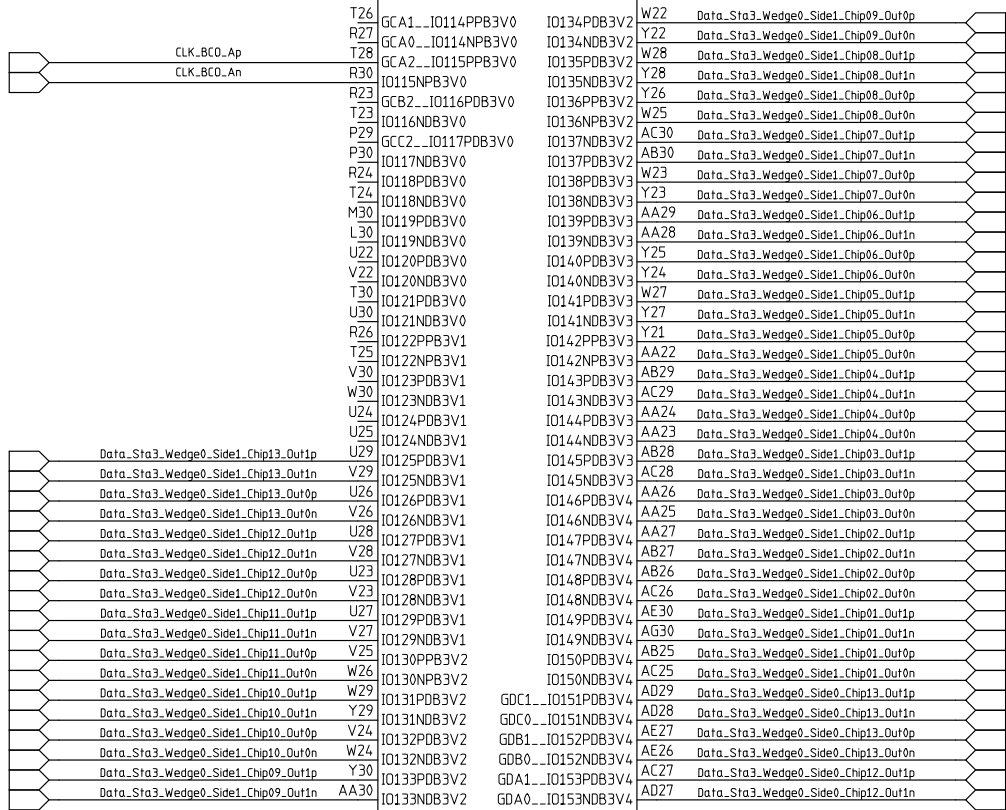
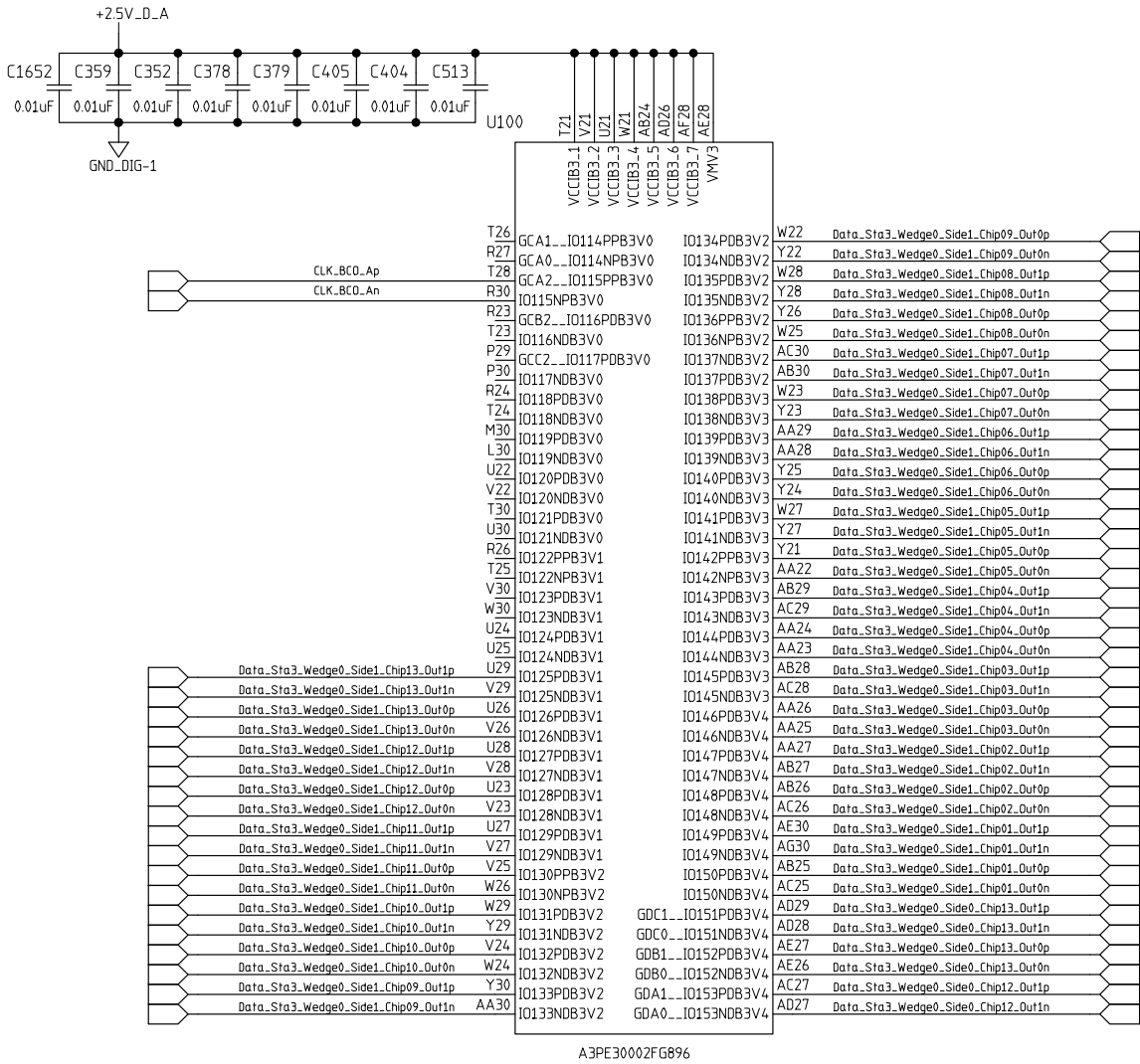
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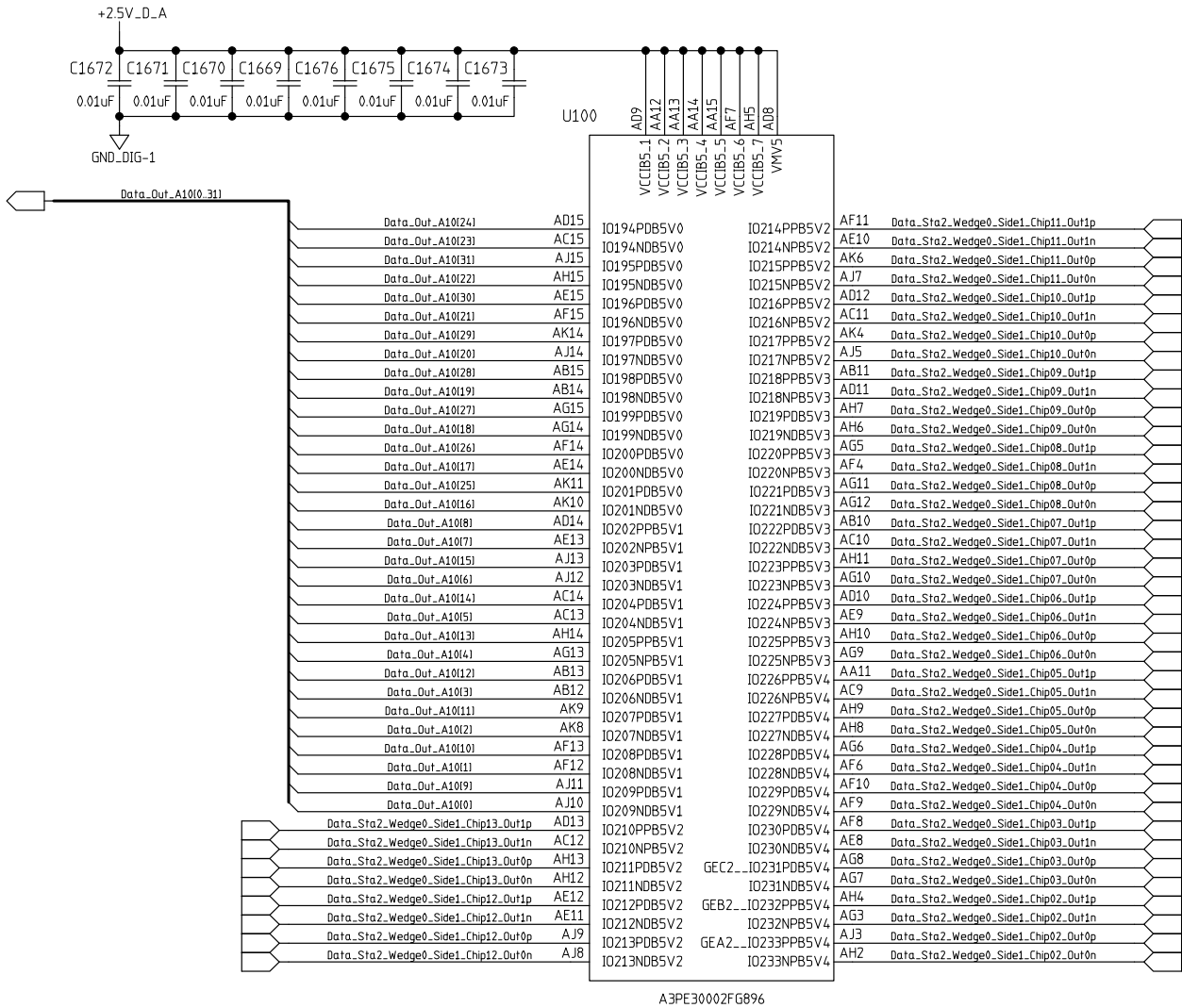
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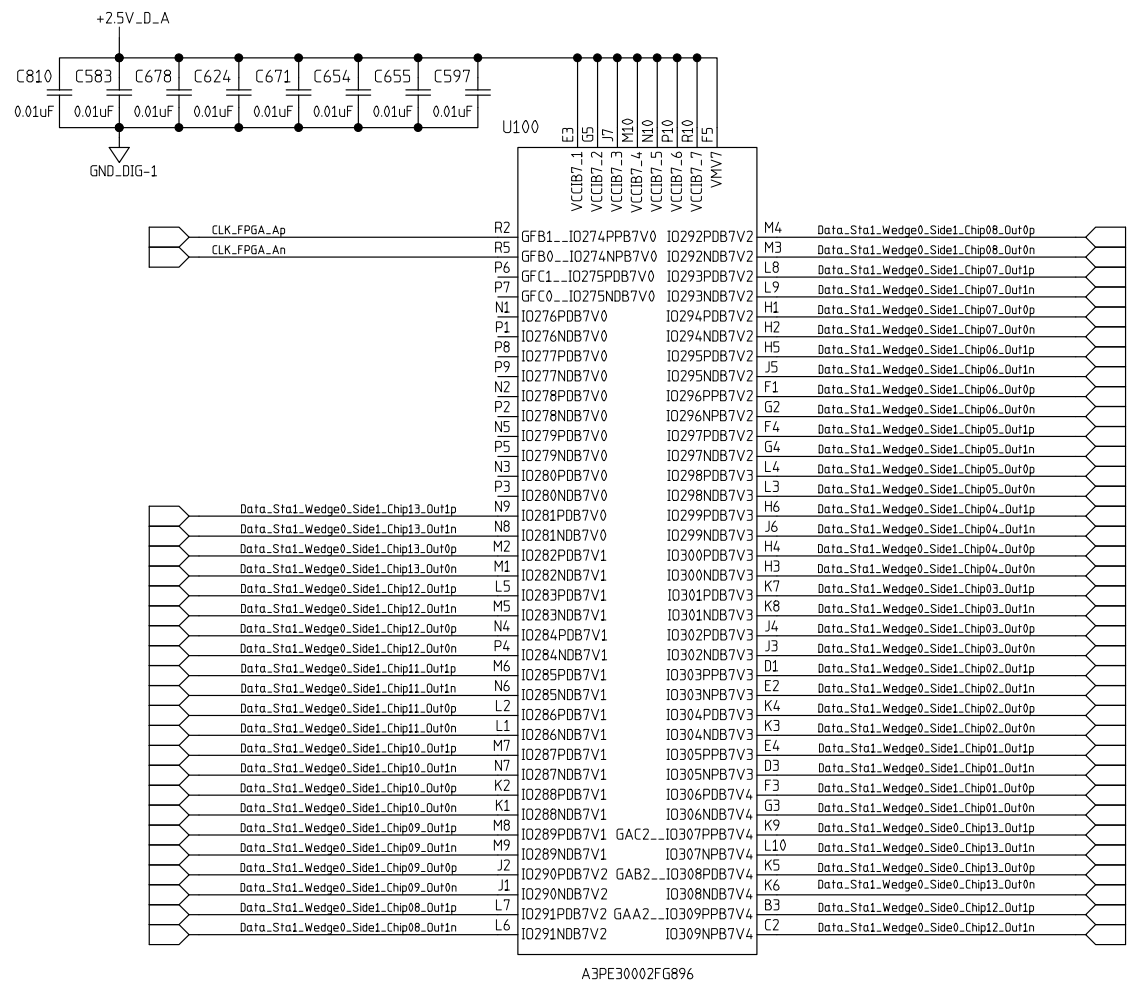
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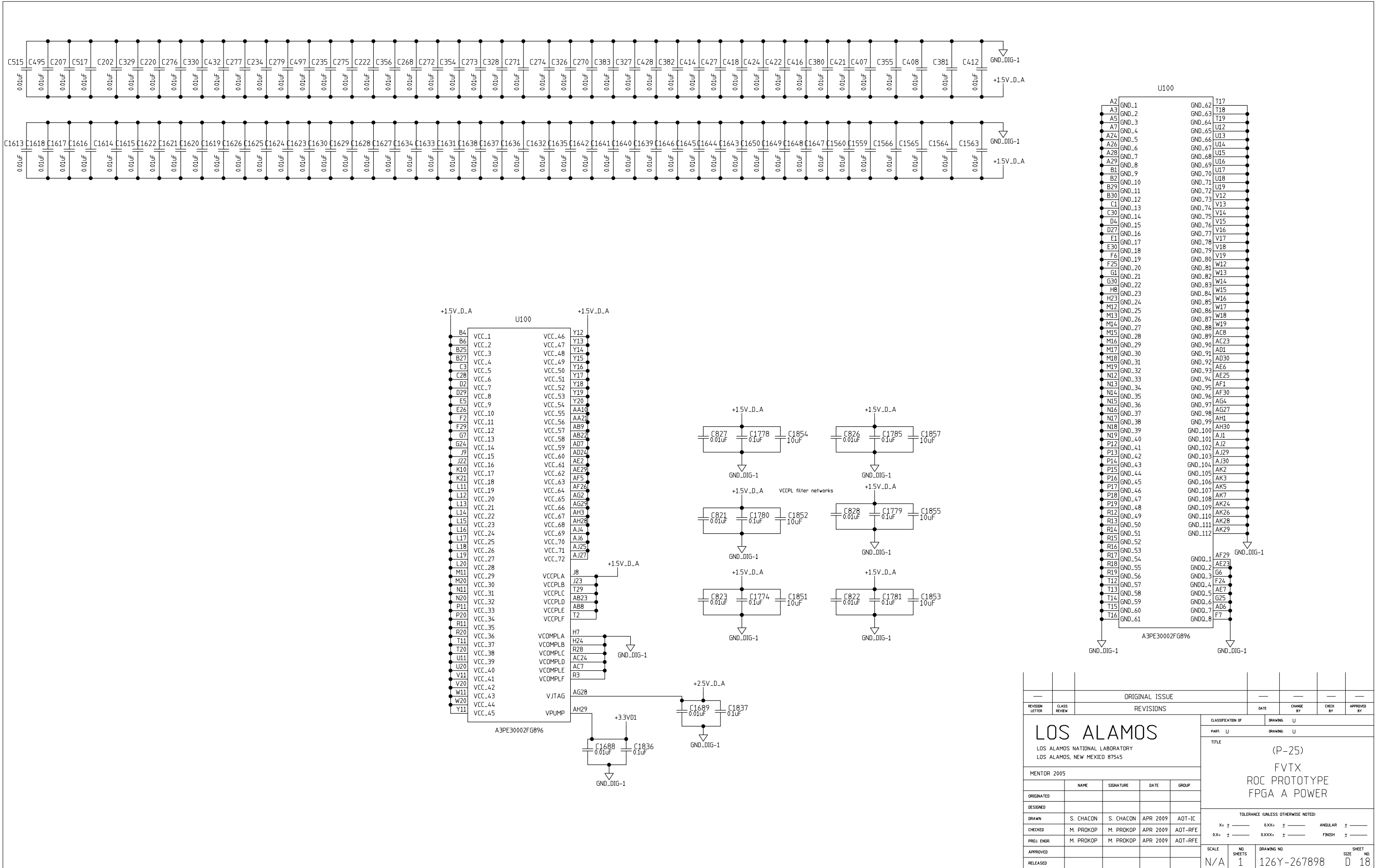
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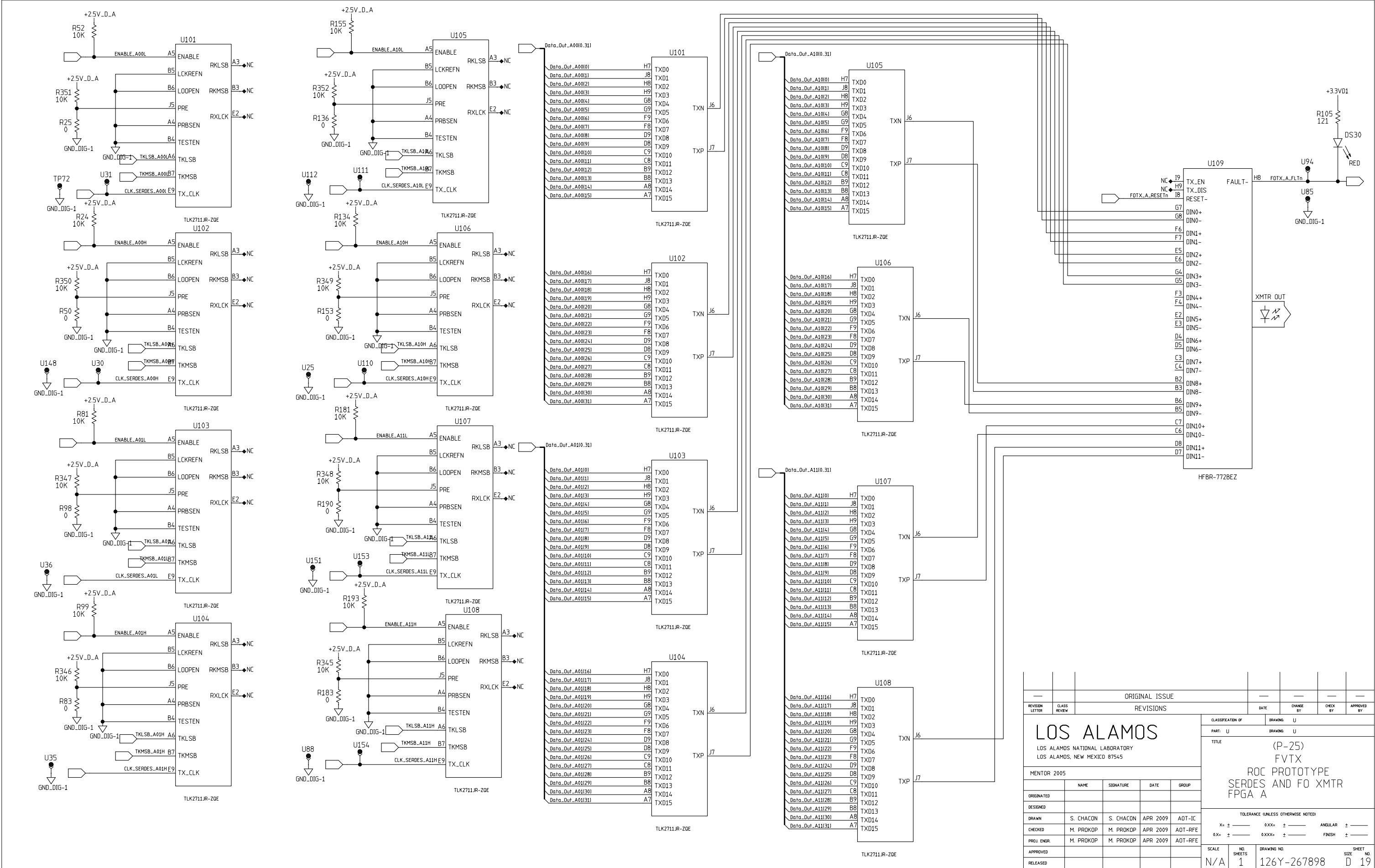
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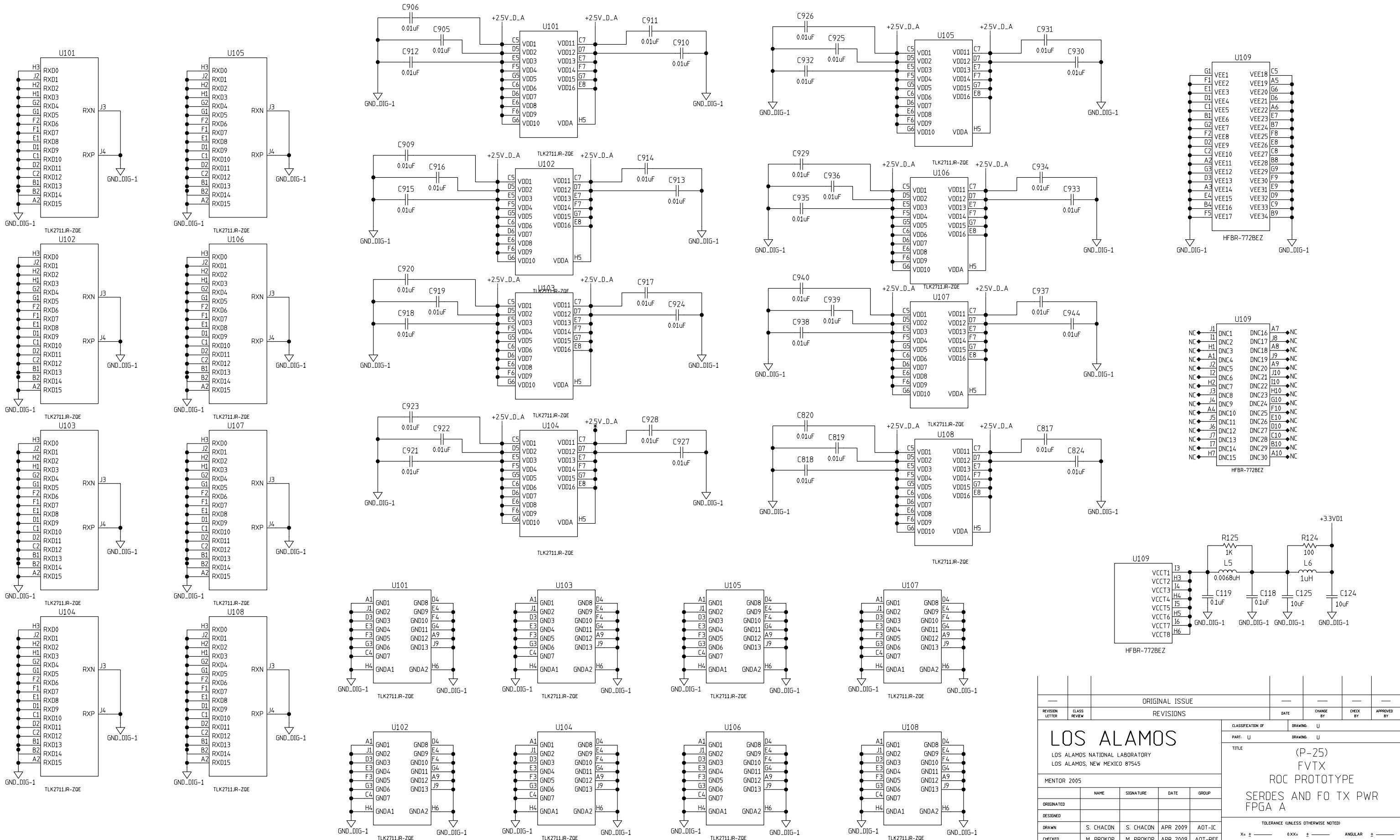
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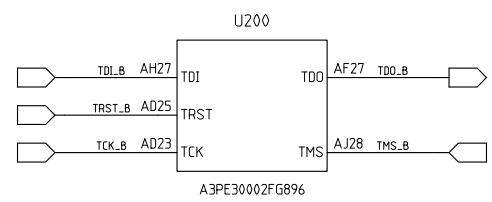
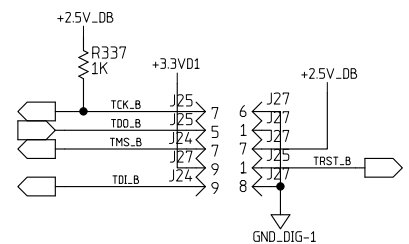
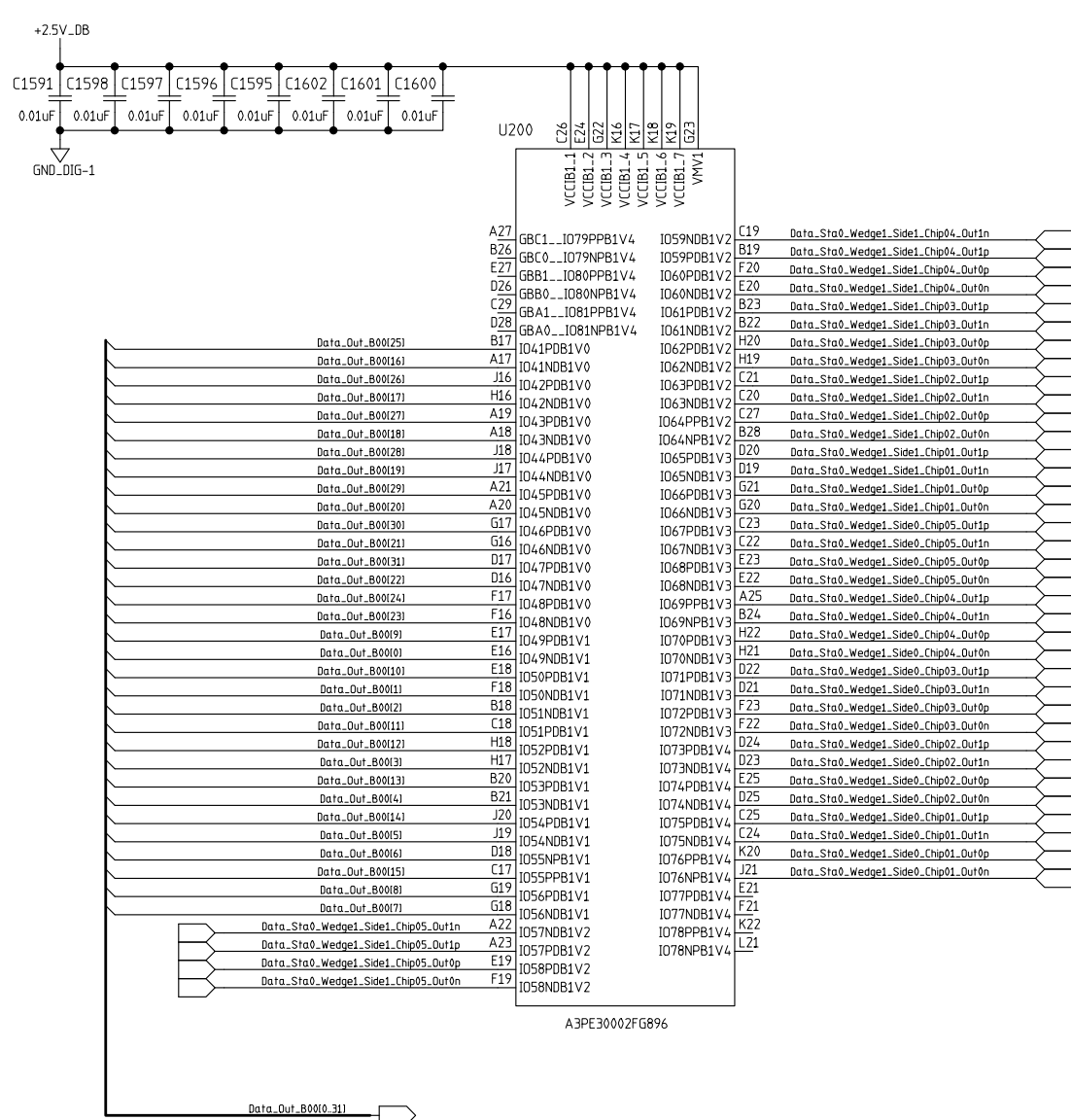
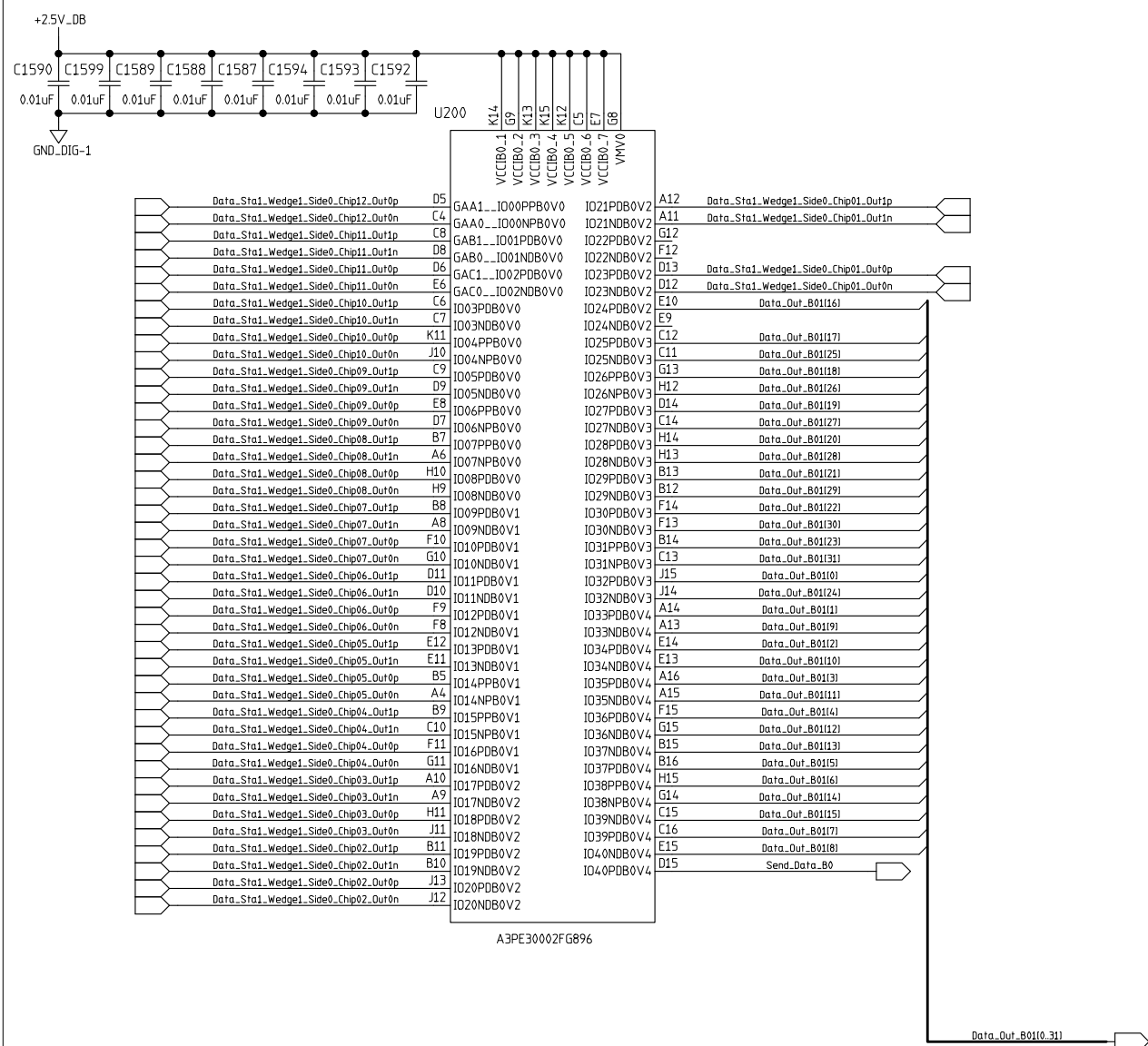
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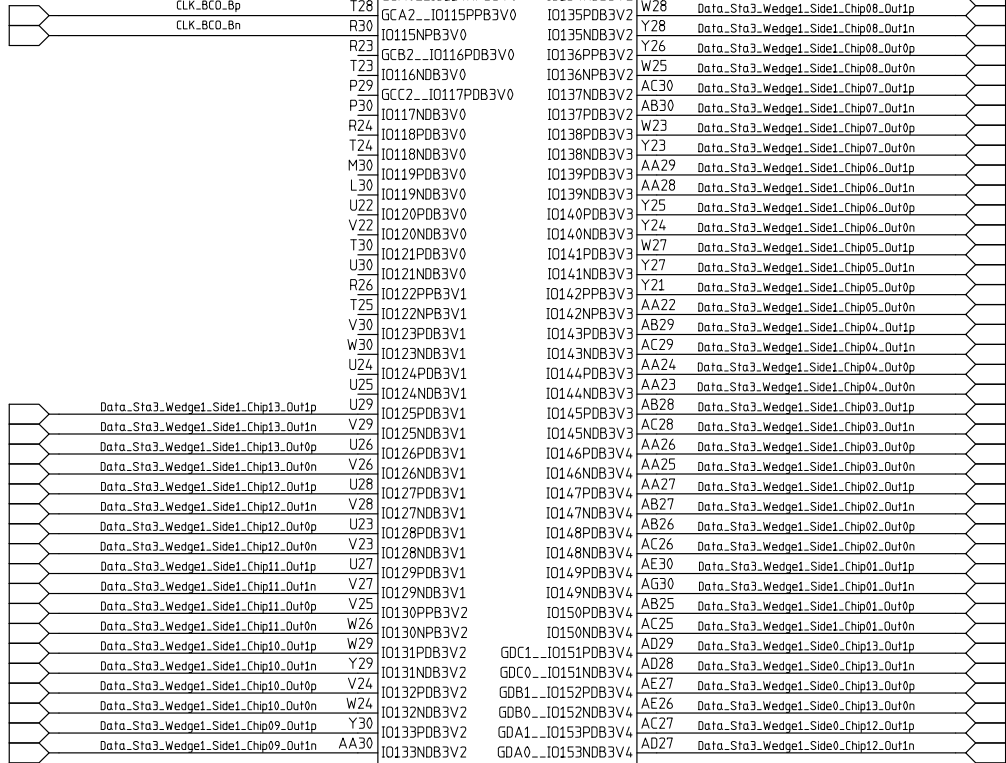
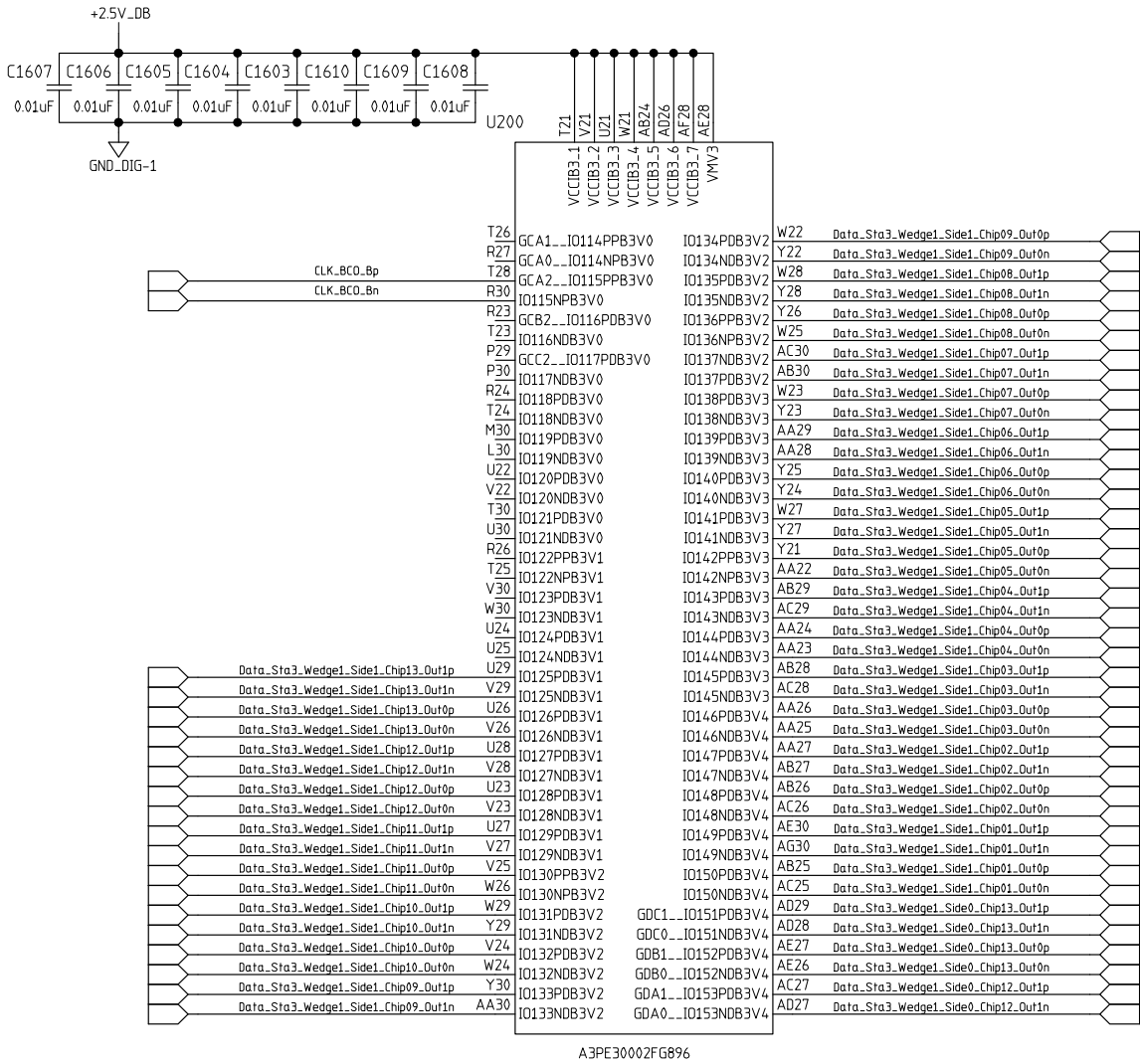
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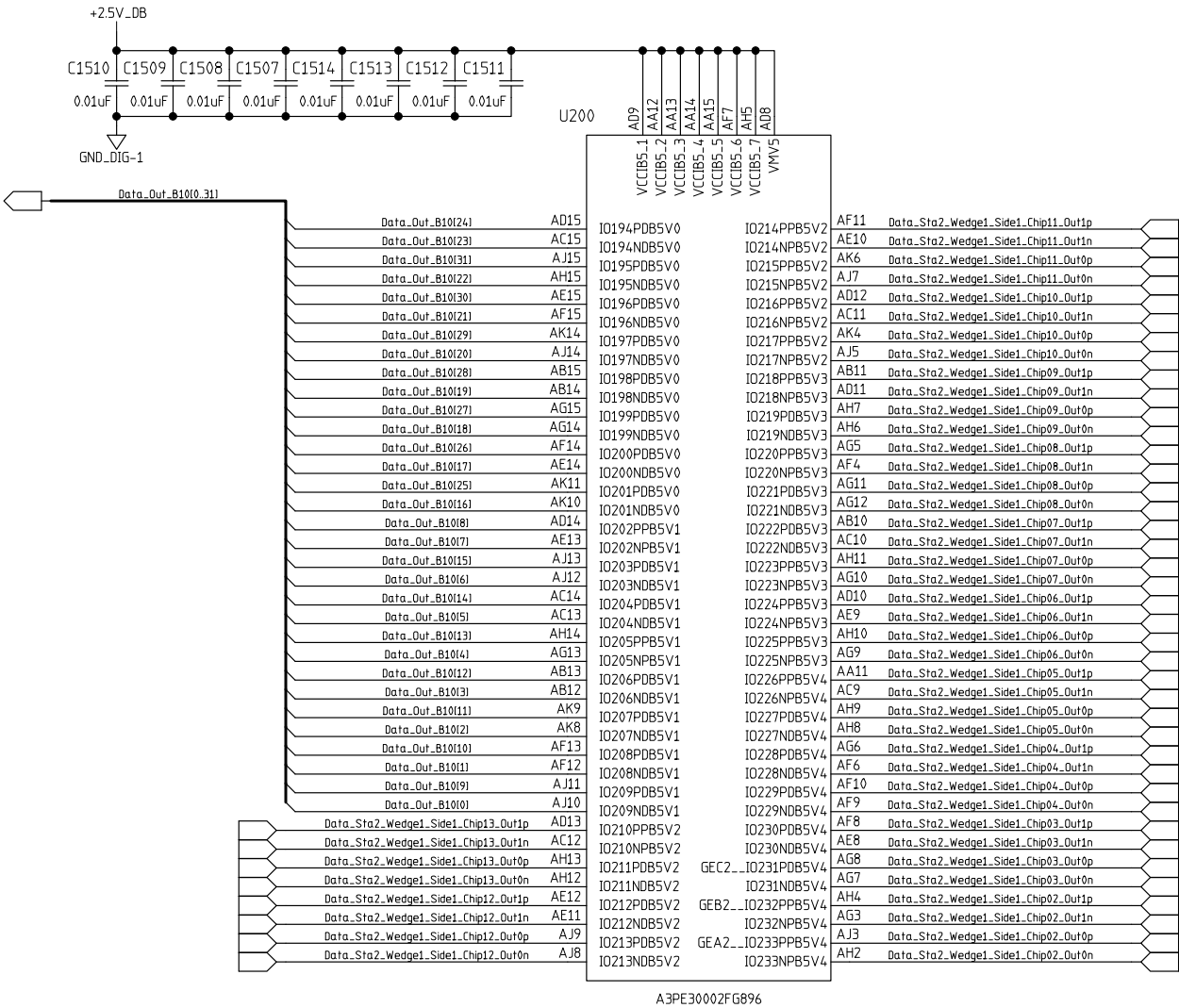
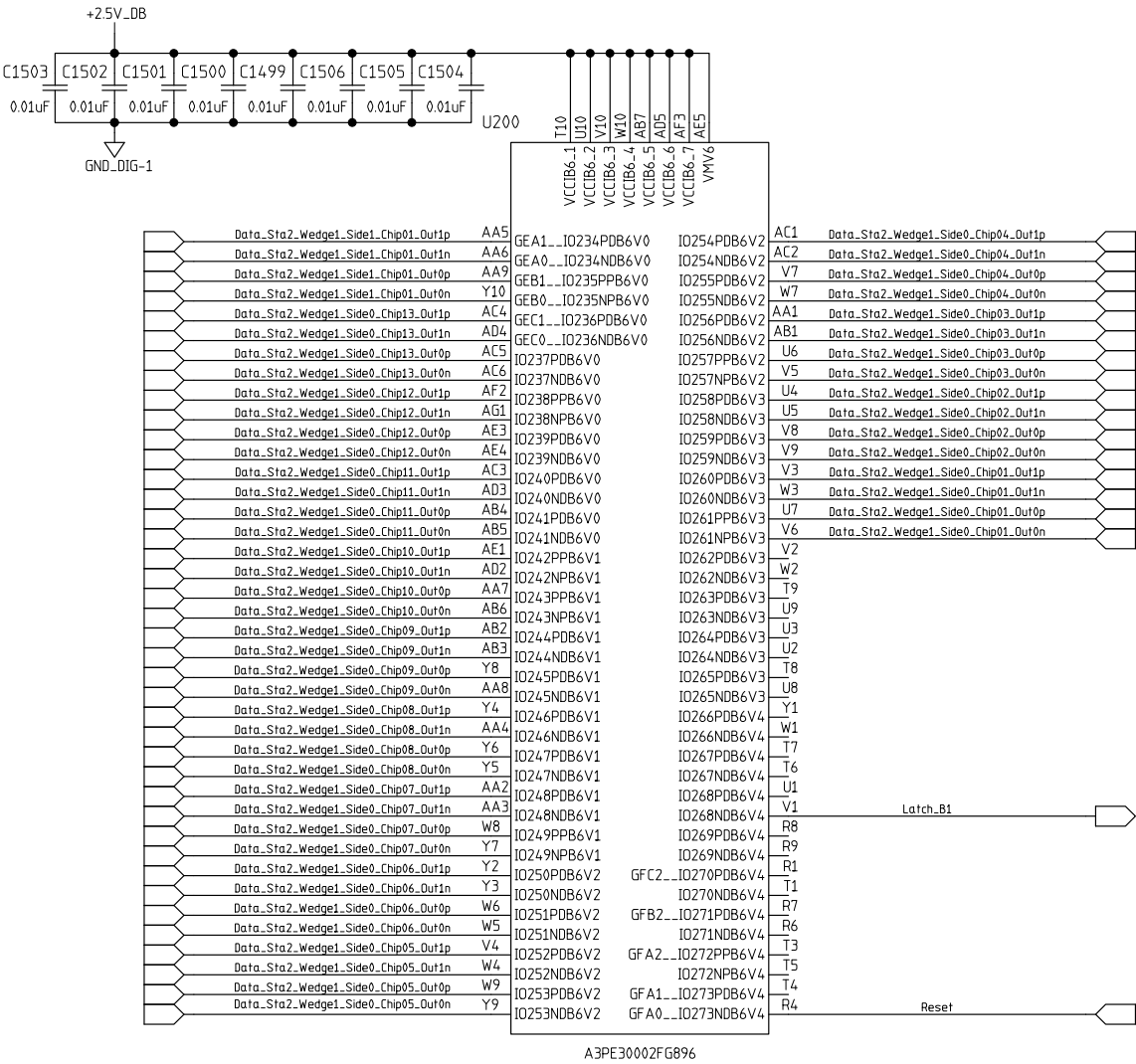
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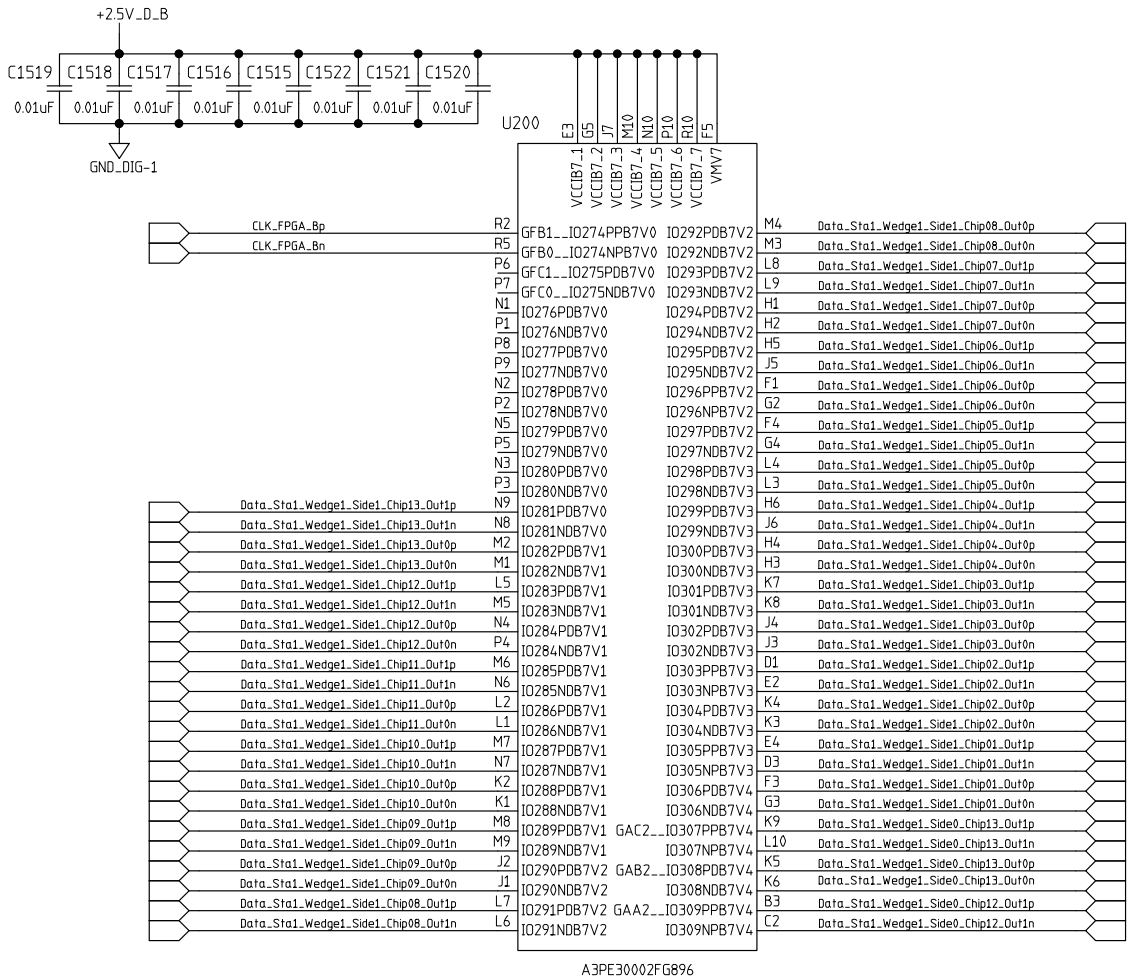
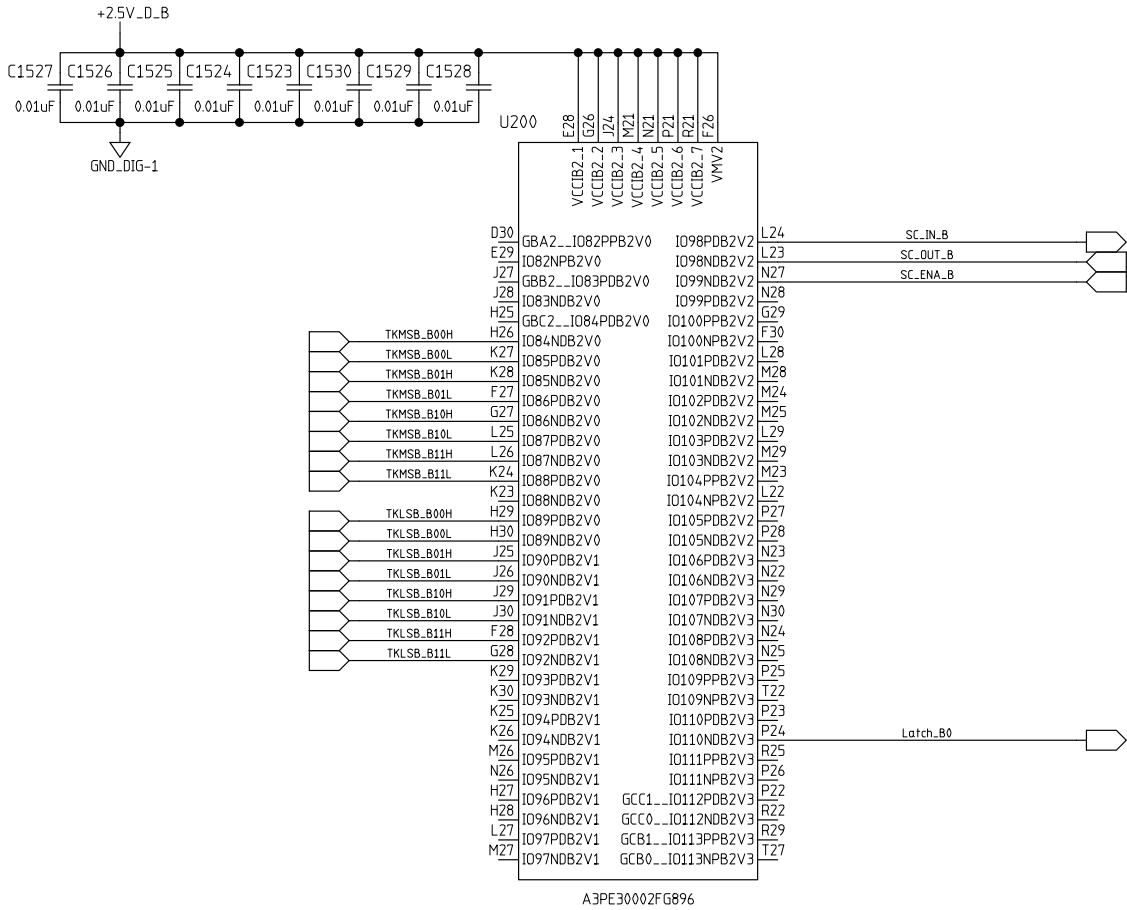
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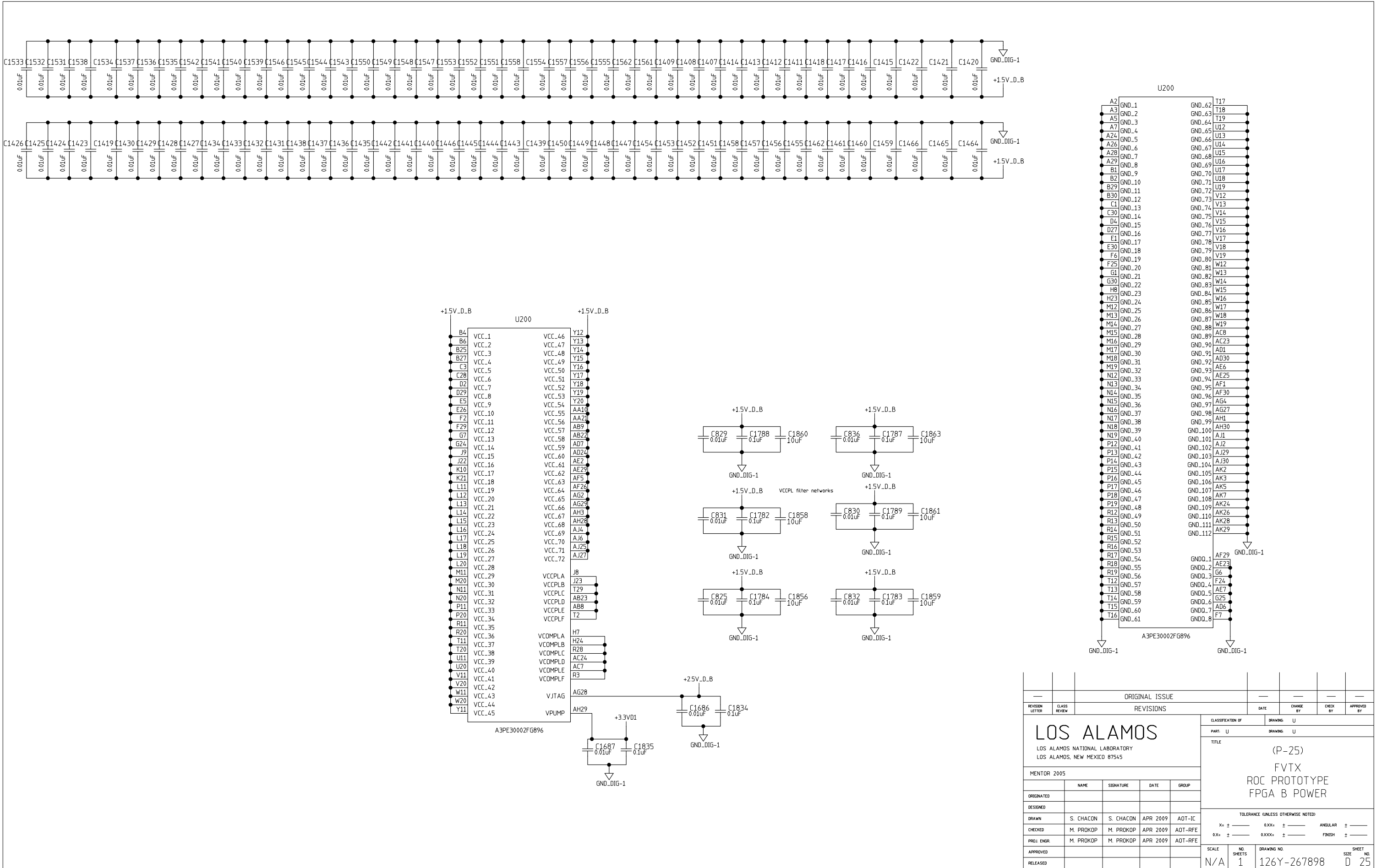
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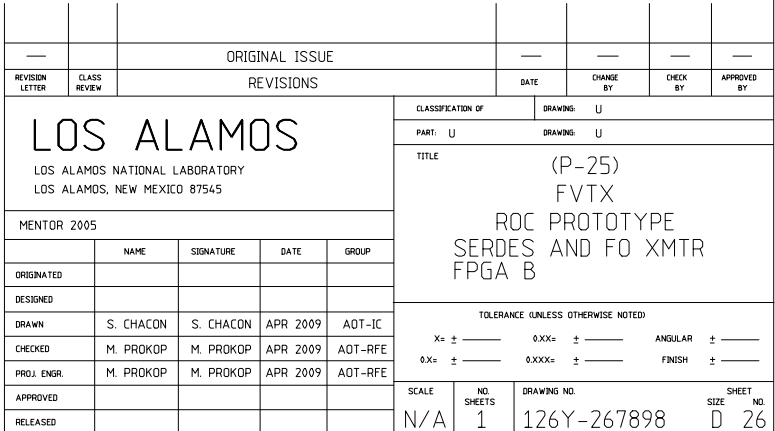
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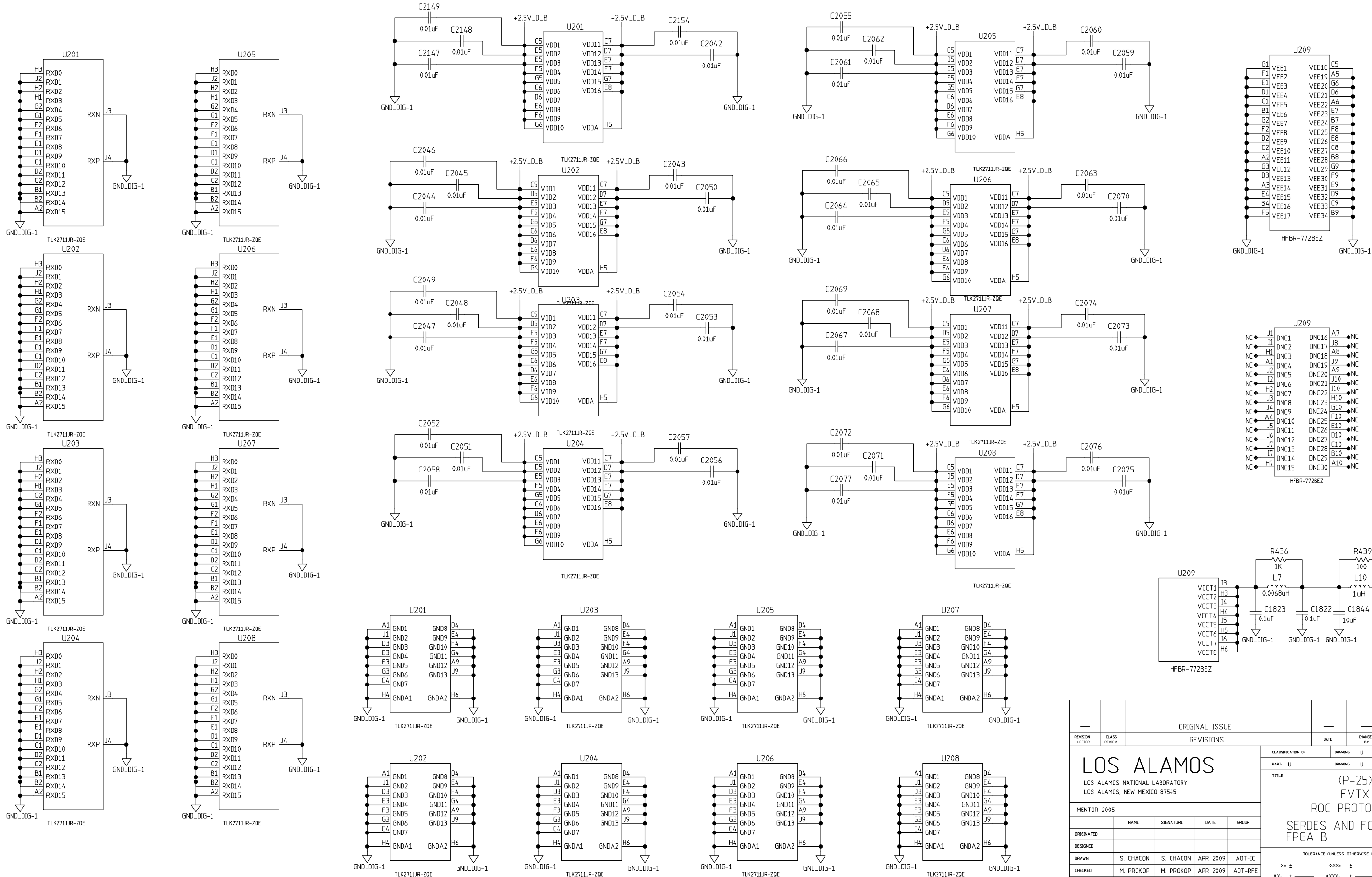


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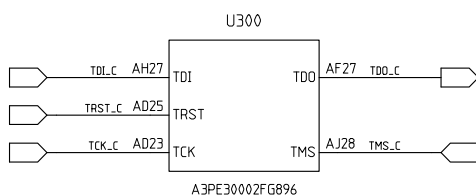


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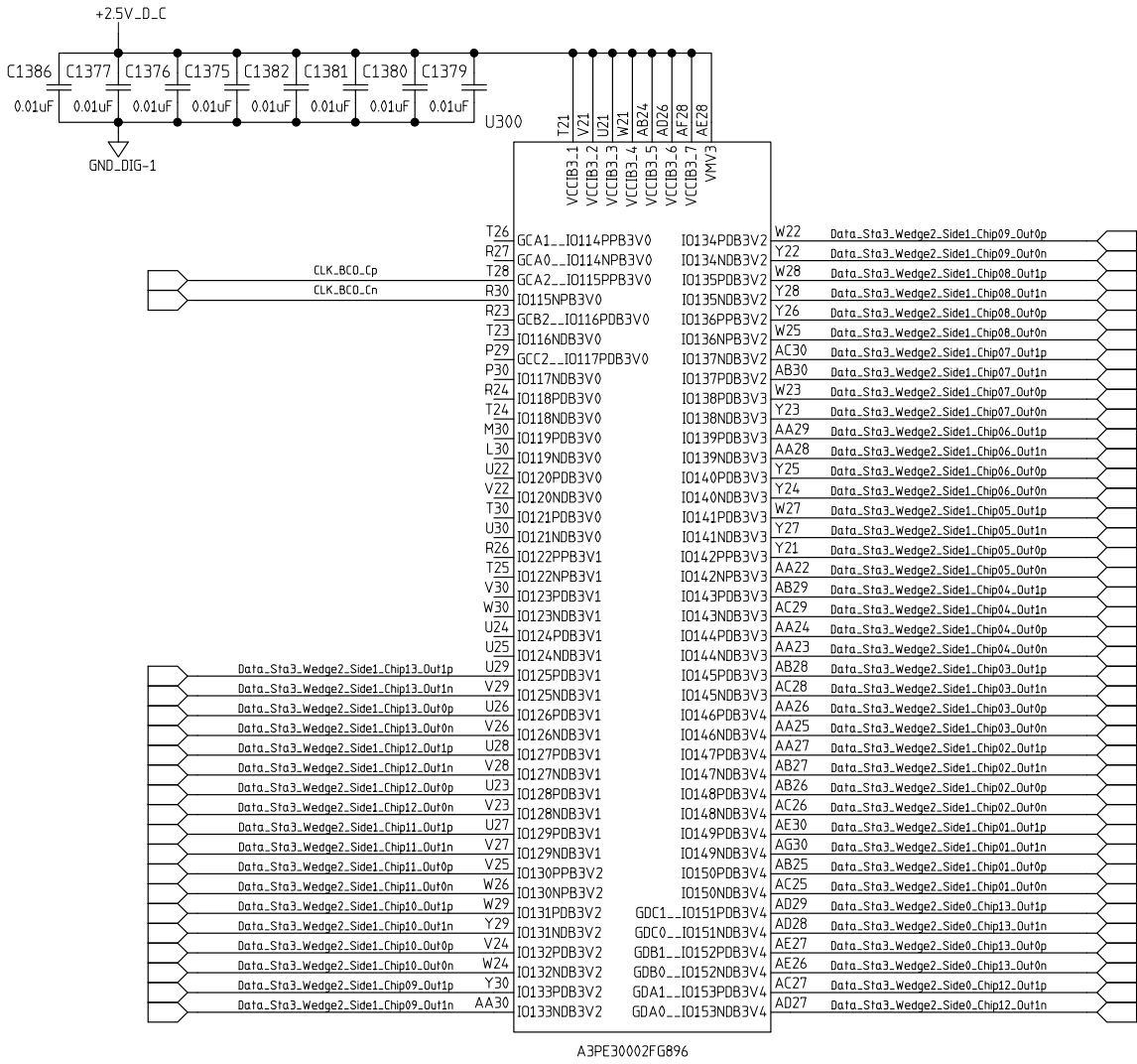
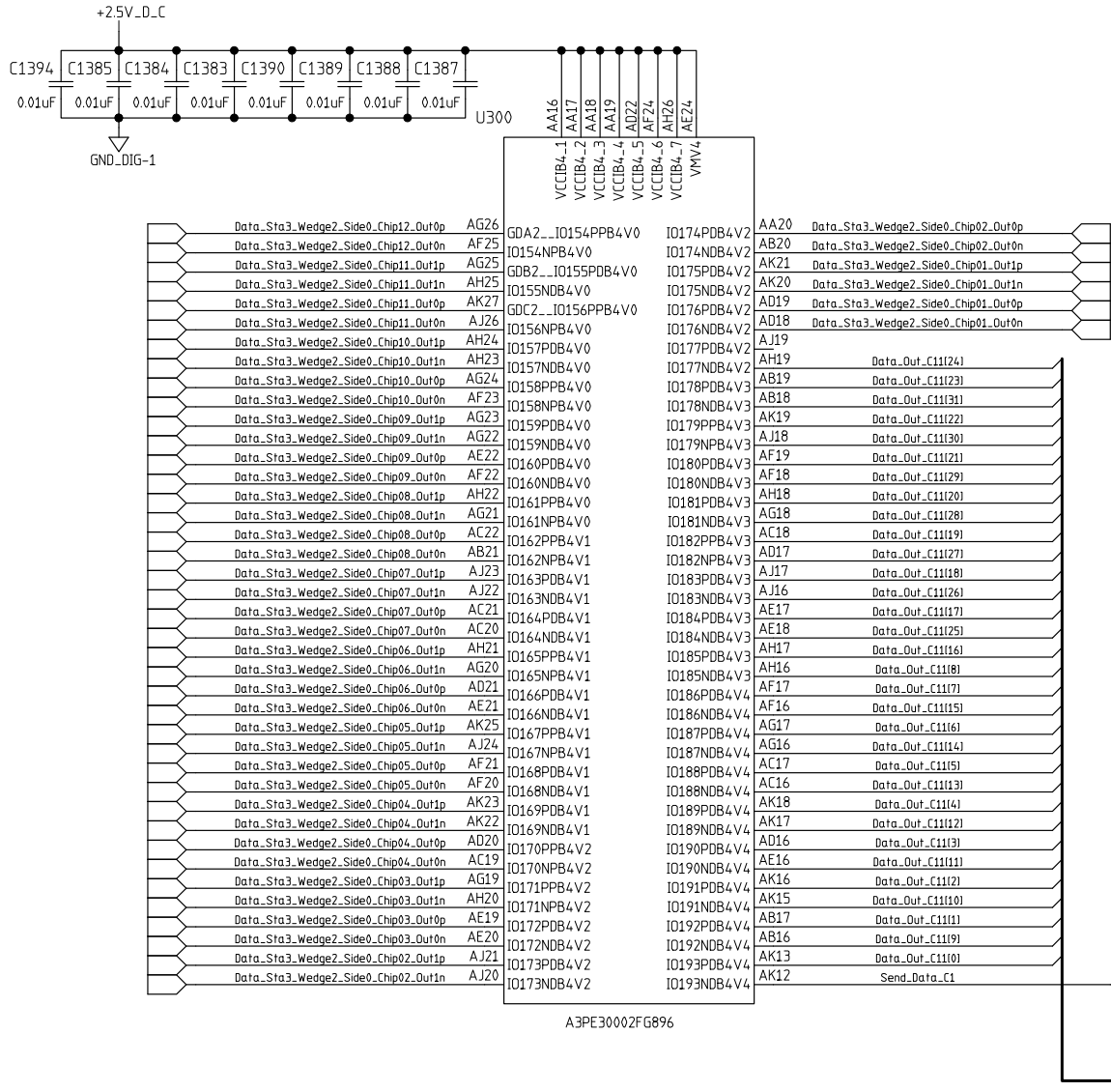




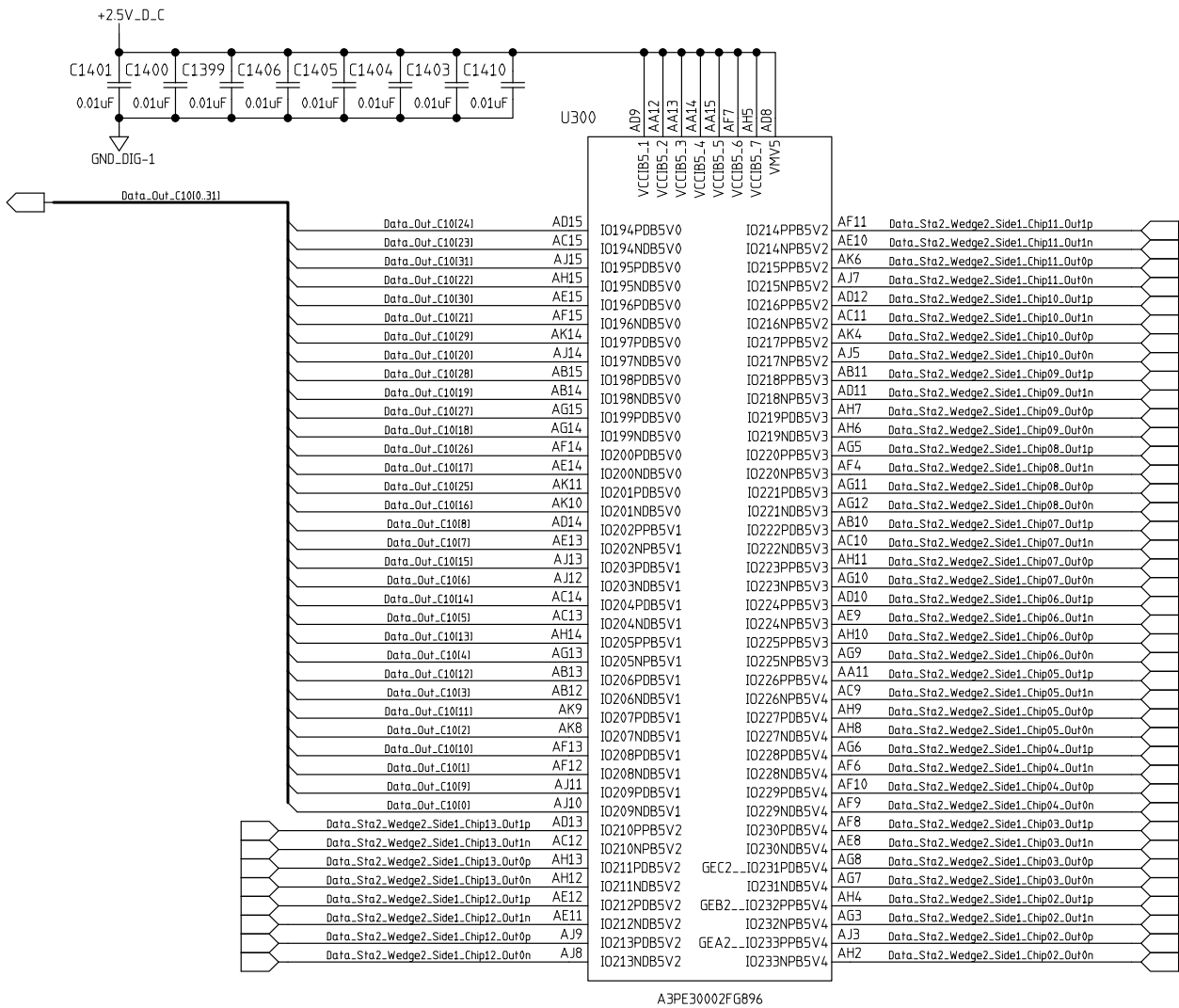
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						PART: U		DRAWING: U	
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								SERDES AND FO TX PWR FPGA B	
MENTOR 2005						TOLERANCE (UNLESS OTHERWISE NOTED) X= ± 0.00X= ± ANGULAR ± 0.X= ± 0.00X= ± FINISH ±			
	NAME	SIGNATURE	DATE	GROUP					
ORIGINATED									
DESIGNED									
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC					
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED									
RELEASED									
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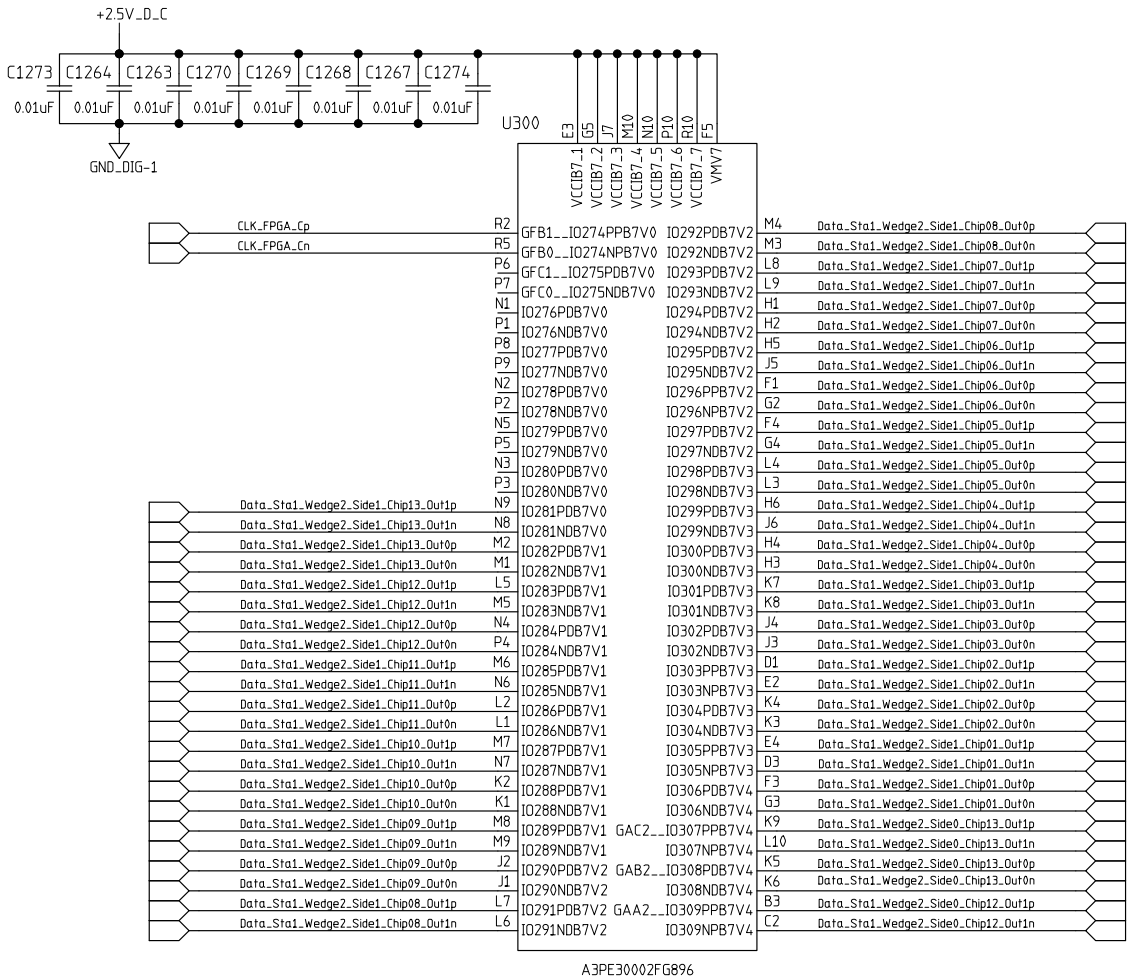
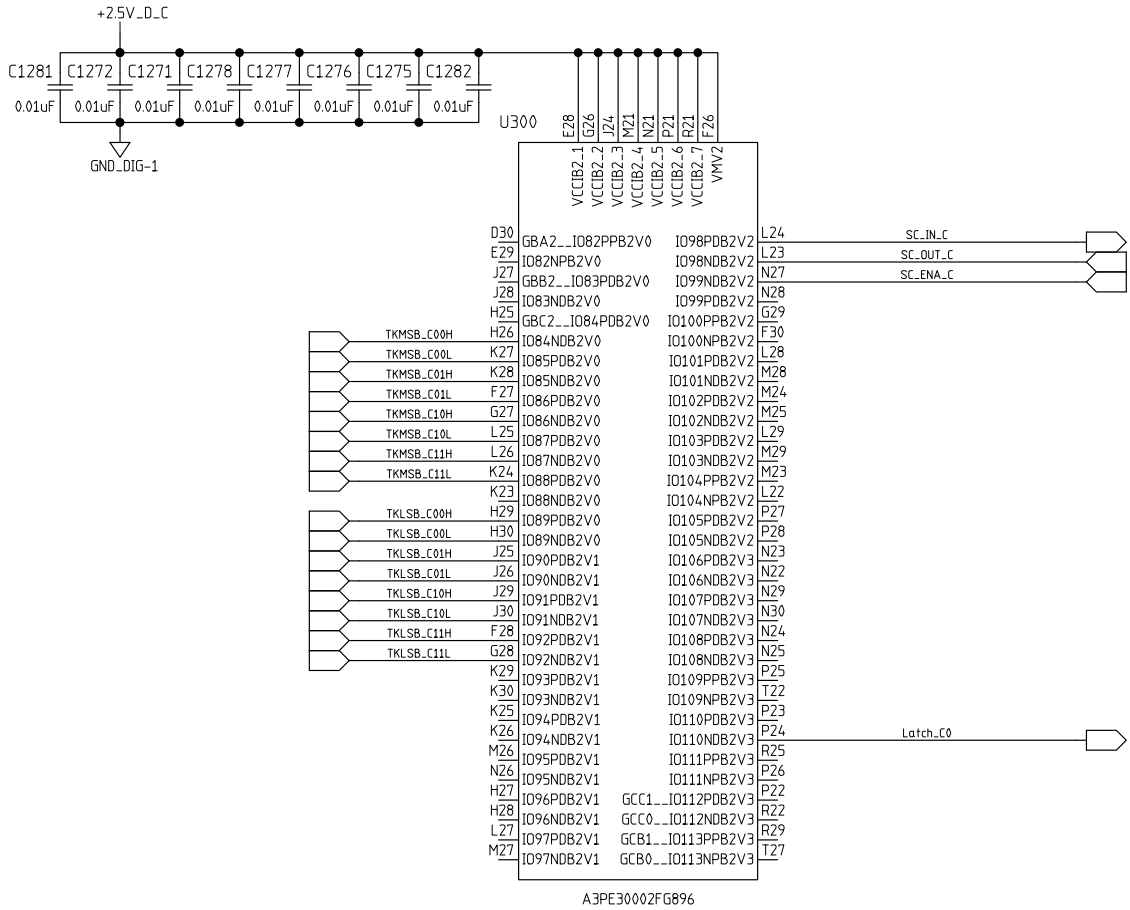


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ORIGINATED									
DESIGNED									
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC					
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	SCALE NO. SHEETS N/A 1				
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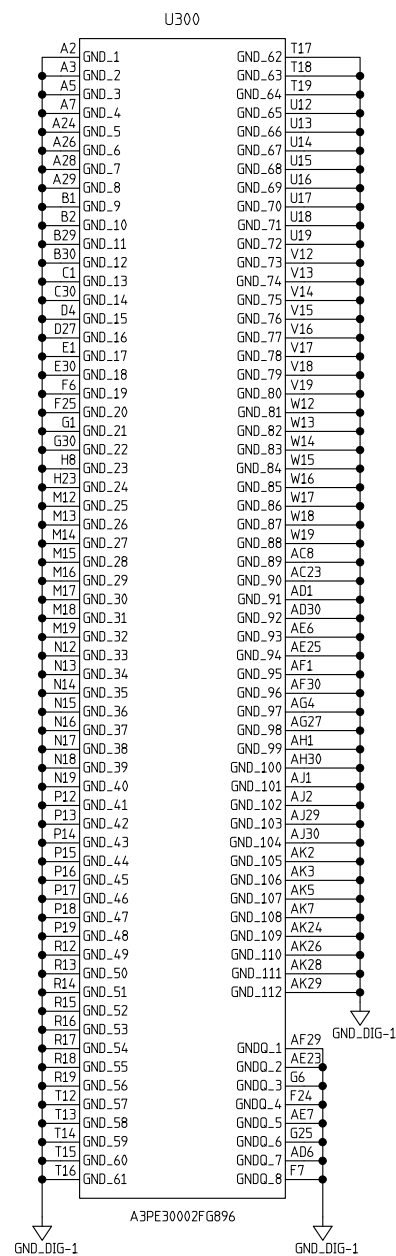
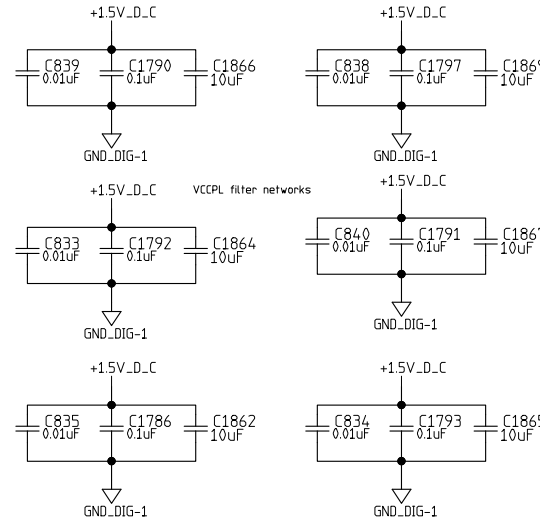
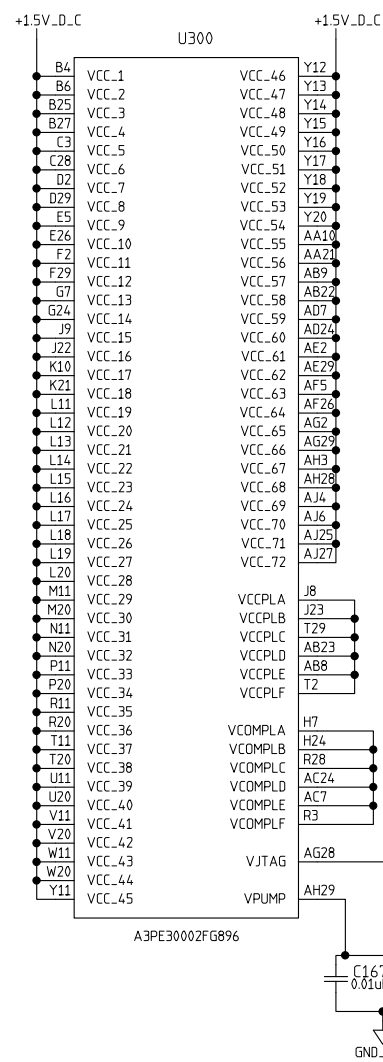
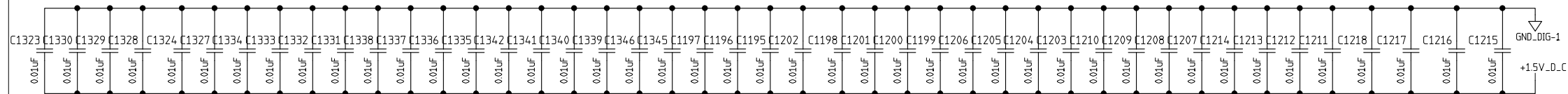


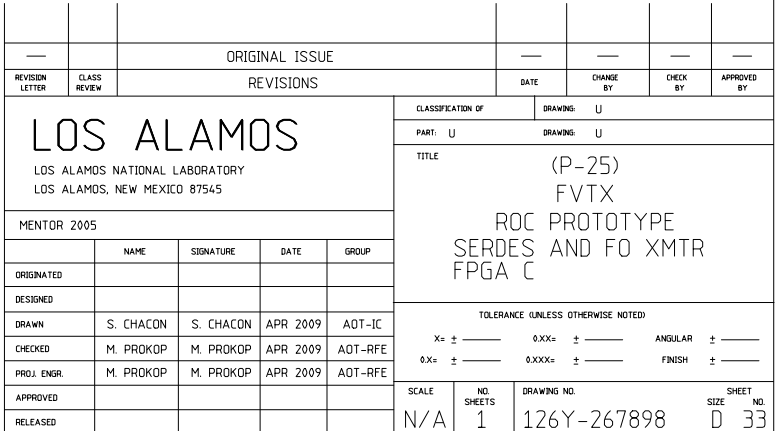
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REVISION LETTER	CLASS REVIEW	REVISIONS		DATE	CHANGE BY	CHECK BY	APPROVED BY							
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				PART: U		DRAWING: U								
				TITLE		(P-25)								
				FVTX ROC PROTOTYPE FPGA C										
MENTOR 2005				TOLERANCE (UNLESS OTHERWISE NOTED)		X= ±		X.X= ±		ANGULAR ±				
ORIGINATED	NAME	SIGNATURE	DATE	GROUP	DRWN	S. CHACON	S. CHACON	APR 2009	AOT-IC	CHCKD	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE
DESIGNED					PRJ ENGR	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	APPRVD				
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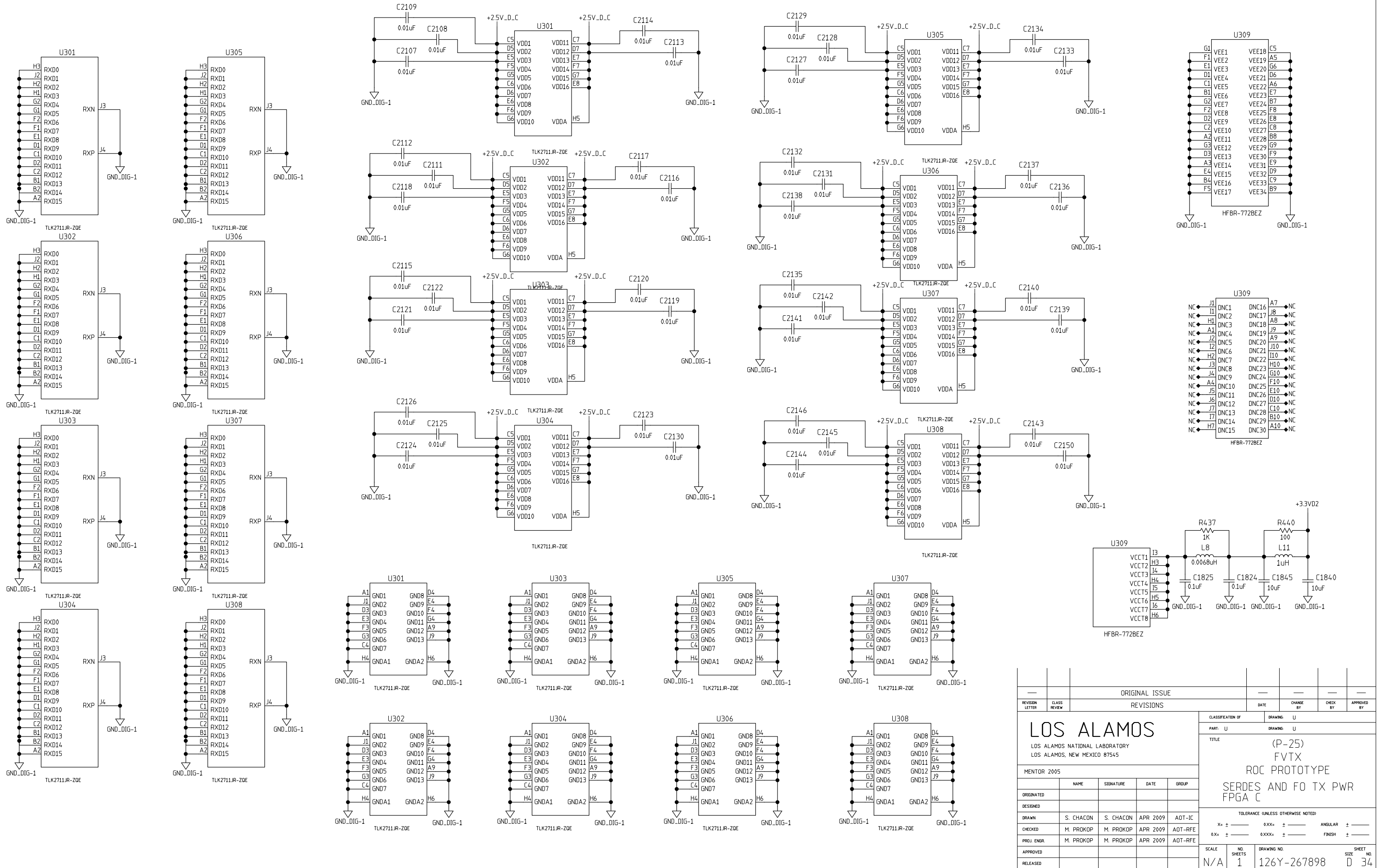




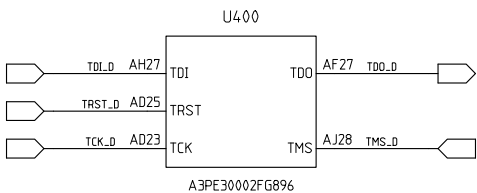
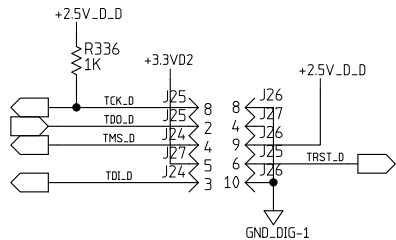
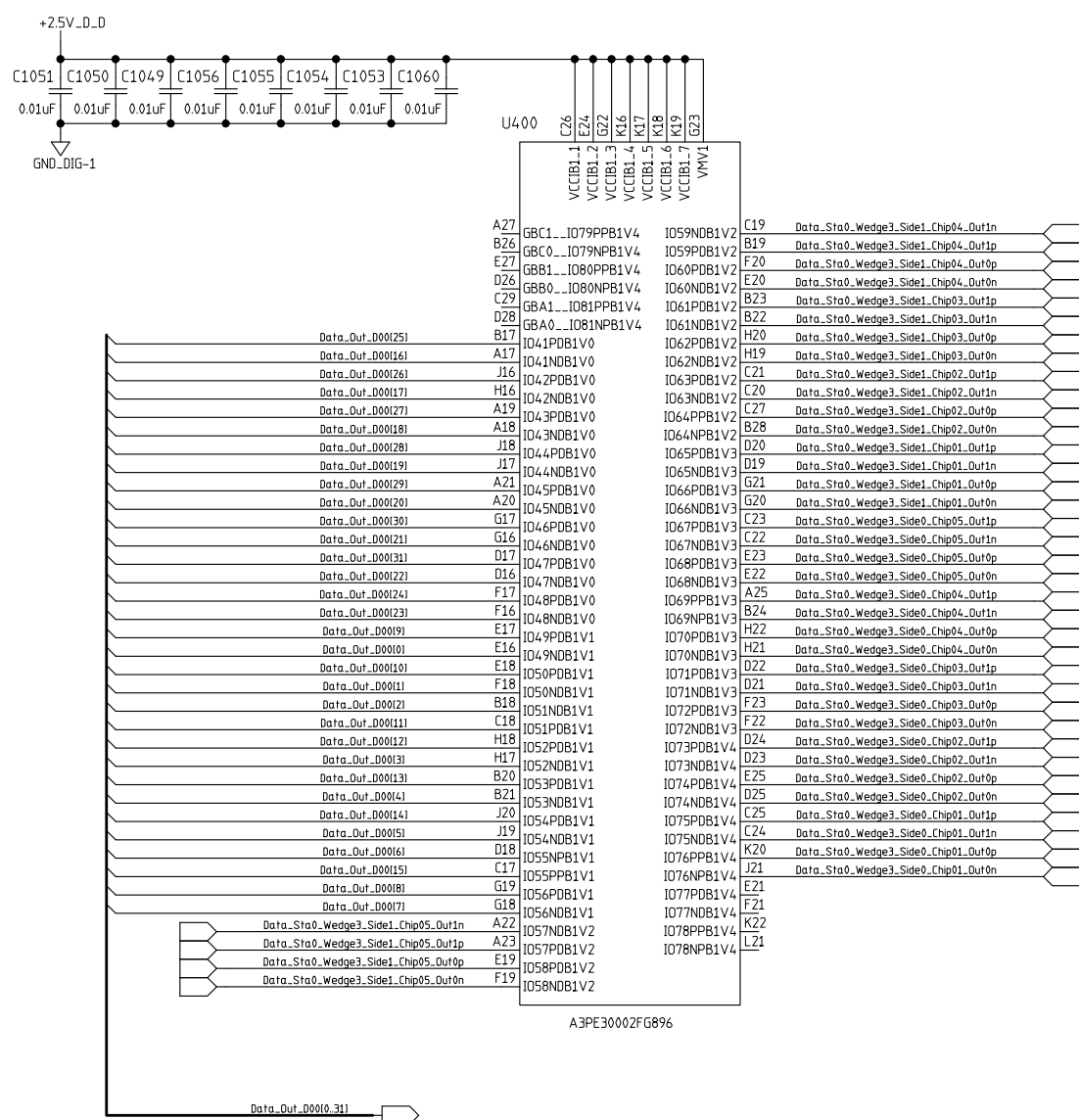
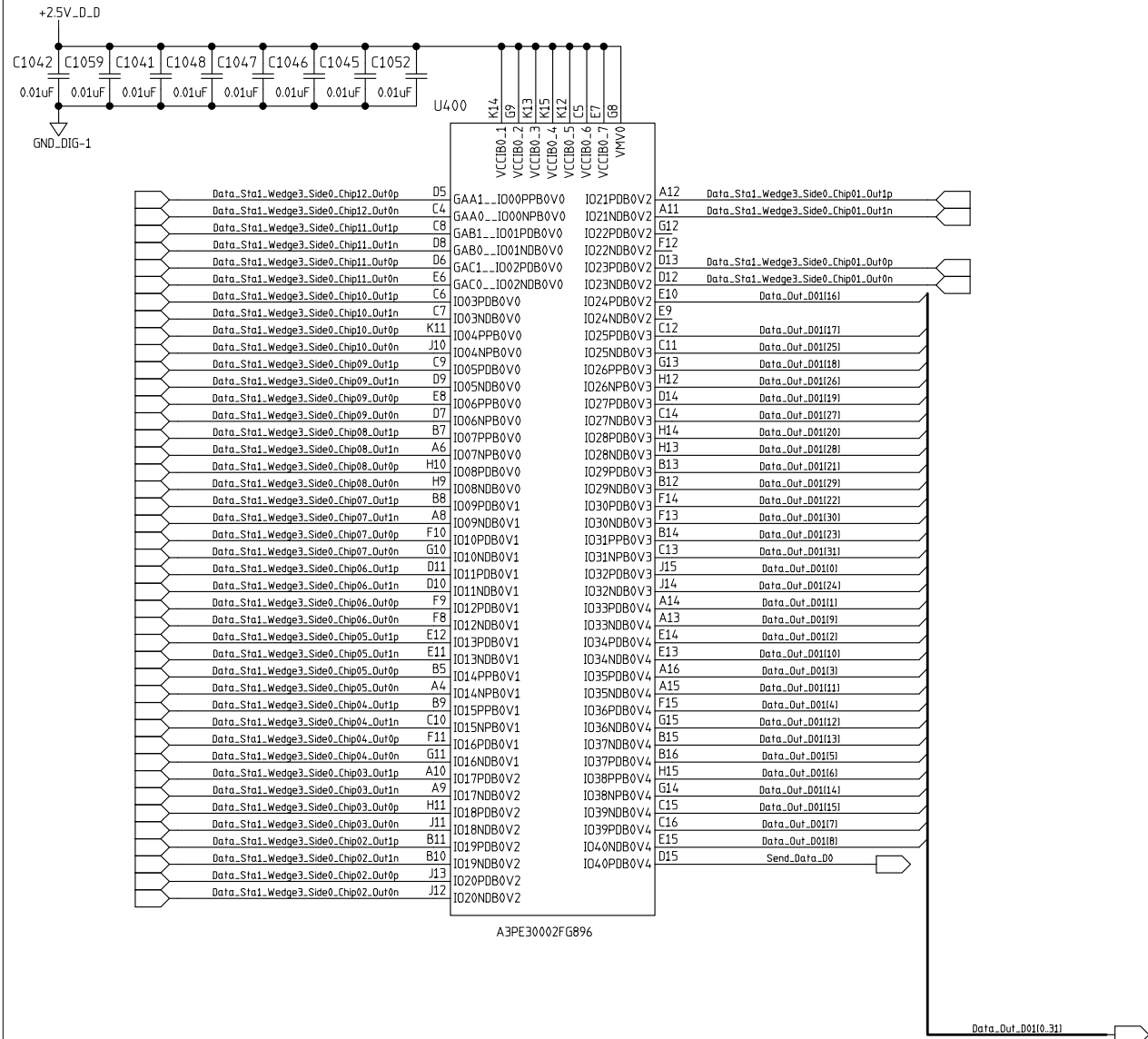
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						PART: U		DRAWING: U					
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						TOLERANCE (UNLESS OTHERWISE NOTED)				X= ± _____ 0.XX= ± _____ ANGULAR ± _____ 0.X= ± _____ 0.XXX= ± _____ FINISH ± _____			
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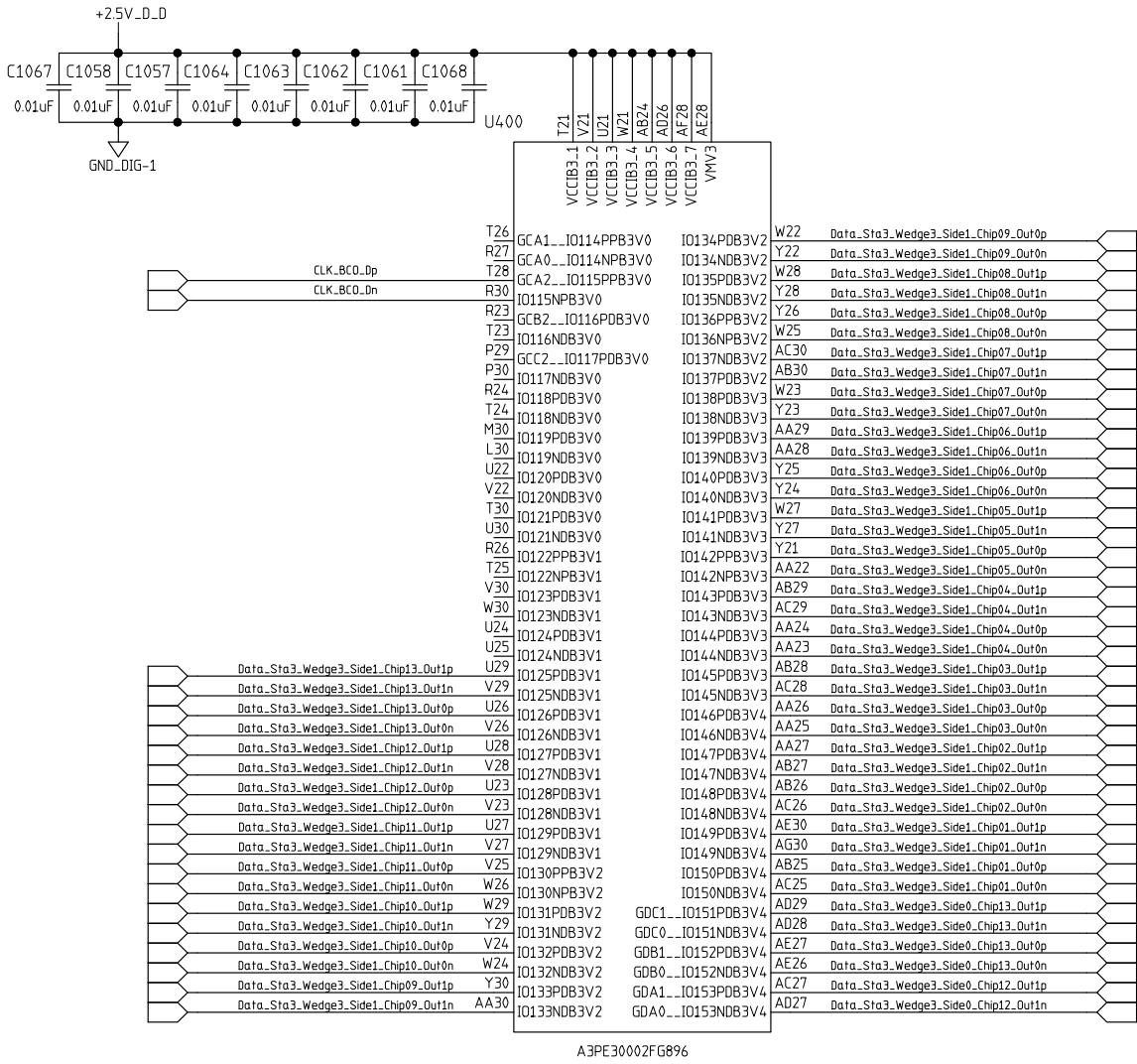
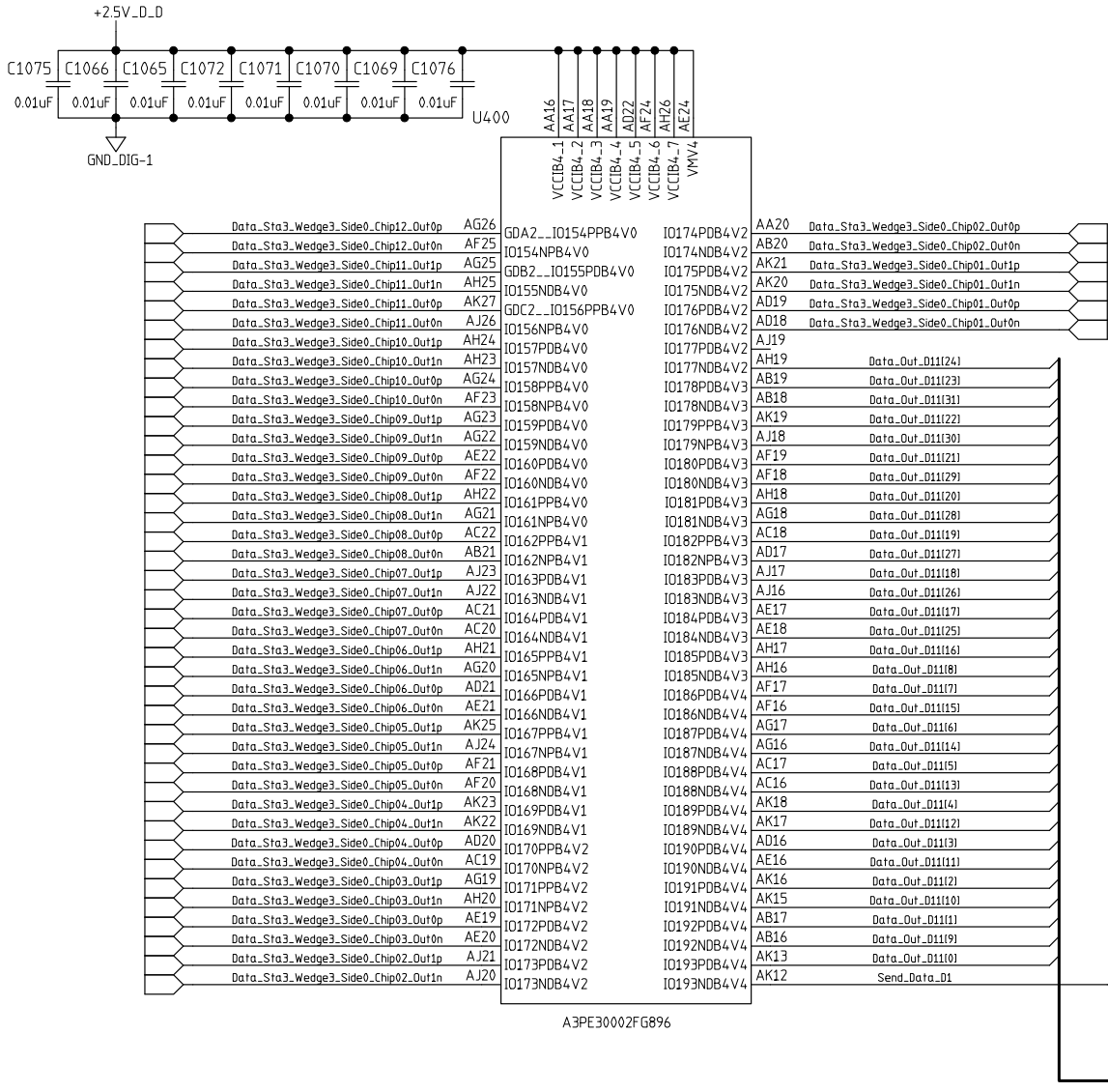




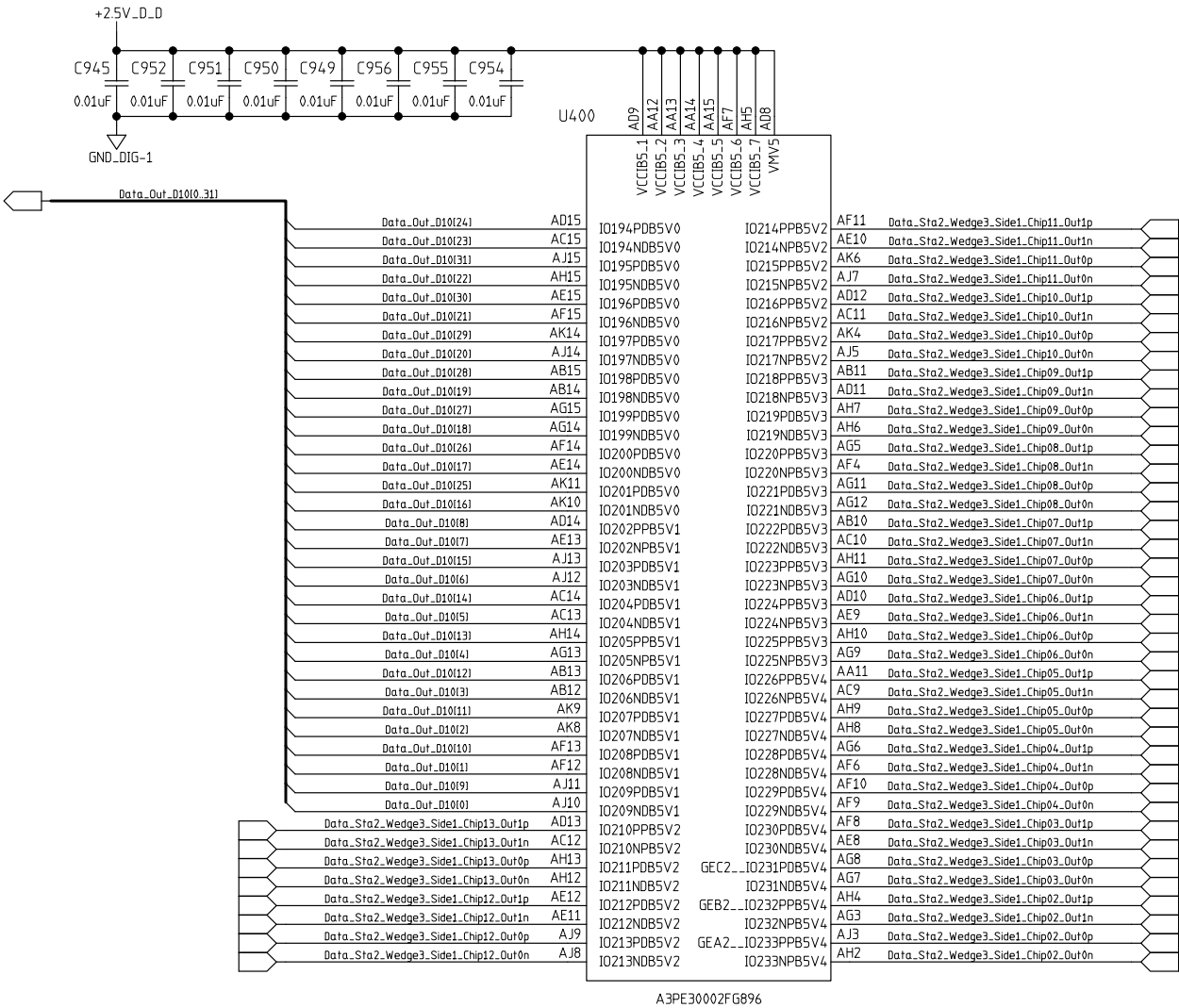
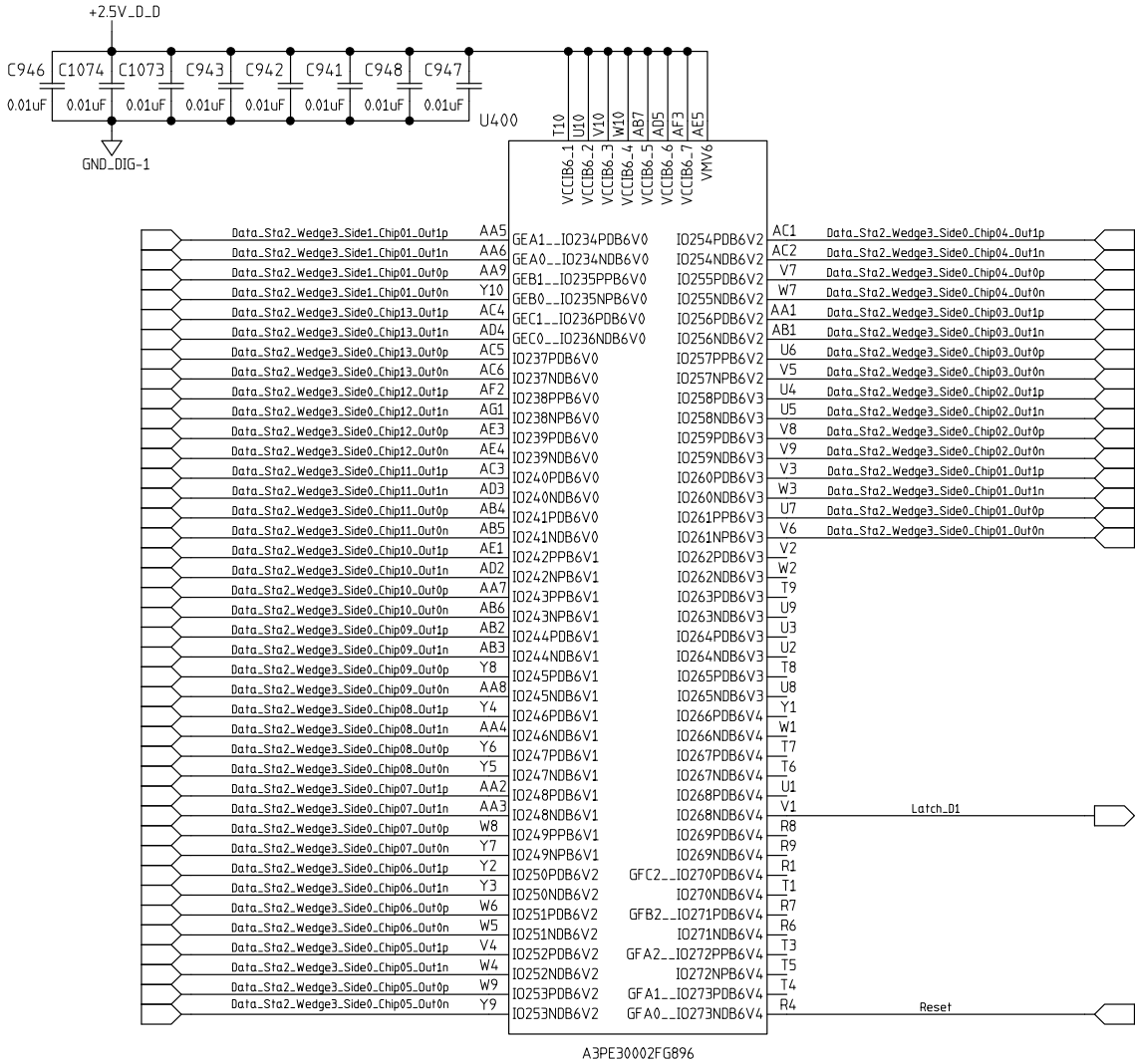
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY		
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						PART: U		DRAWING: U			
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								SERDES AND FO TX PWR FPGA C			
						TOLERANCE (UNLESS OTHERWISE NOTED)					
						X= ± _____		0.XX= ± _____		ANGULAR ± _____	
						0.X= ± _____		0.XXX= ± _____		FINISH ± _____	
						SCALE		NO. SHEETS		DRAWING NO.	
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ORIGINATED	NAME	SIGNATURE	DATE	GROUP							
DESIGNED											
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC							
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE							
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE							
APPROVED											
RELEASED											



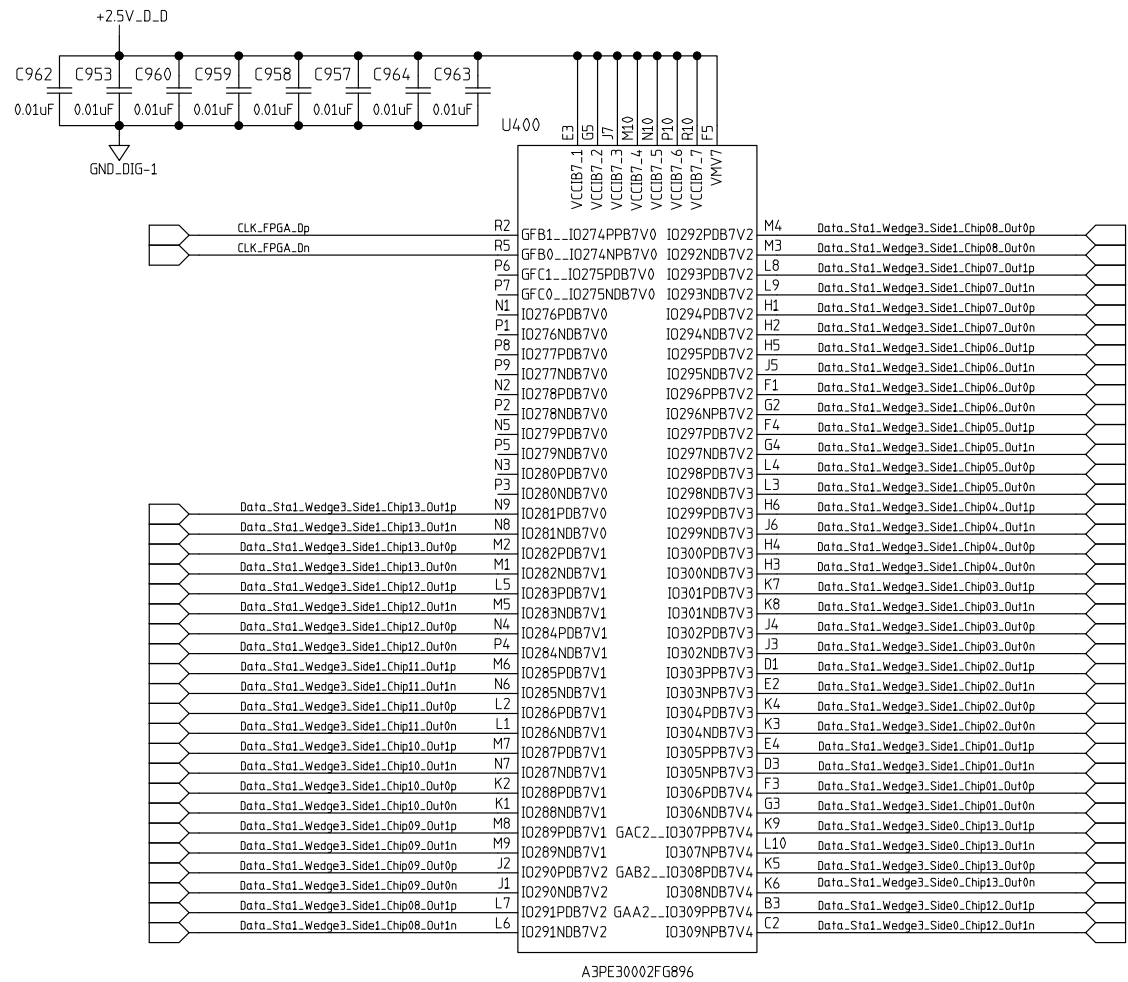
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LOS ALAMOS NATIONAL LABORATORY														PART: U		DRAWING: U	
LOS ALAMOS, NEW MEXICO 87545														TITLE (P-25) FVTX ROC PROTOTYPE FPGA D			
MENTOR 2005																	
NAME SIGNATURE DATE GROUP																	
ORIGINATED																	
DESIGNED														TOLERANCE (UNLESS OTHERWISE NOTED) X= ± 0.001= ± ANGULAR ± 0.001= ± FINISH ± 0.001			
DRAWN		S. CHACON		S. CHACON		APR 2009		AOT-IC									
CHECKED		M. PROKOP		M. PROKOP		APR 2009		AOT-RFE									
PROJ. ENGR.		M. PROKOP		M. PROKOP		APR 2009		AOT-RFE									
APPROVED																	
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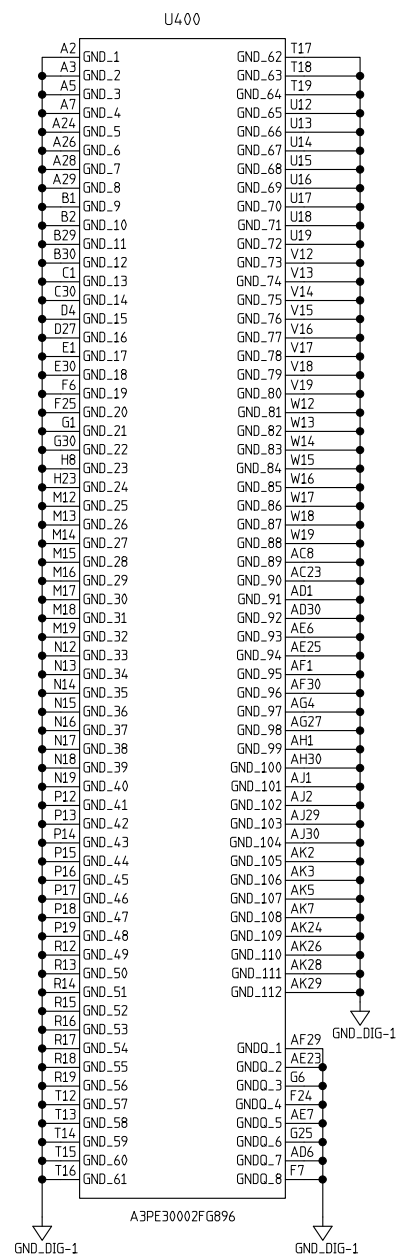
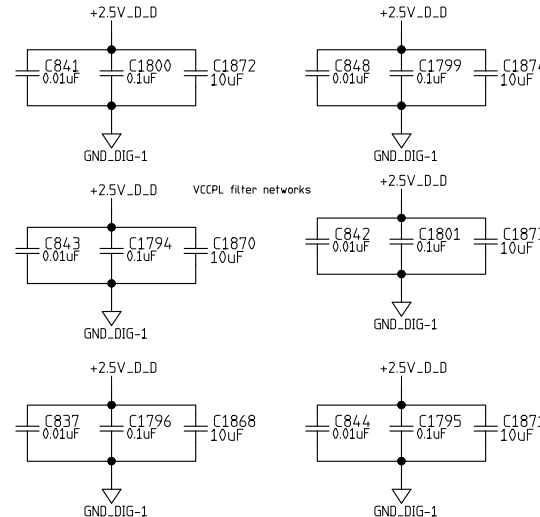
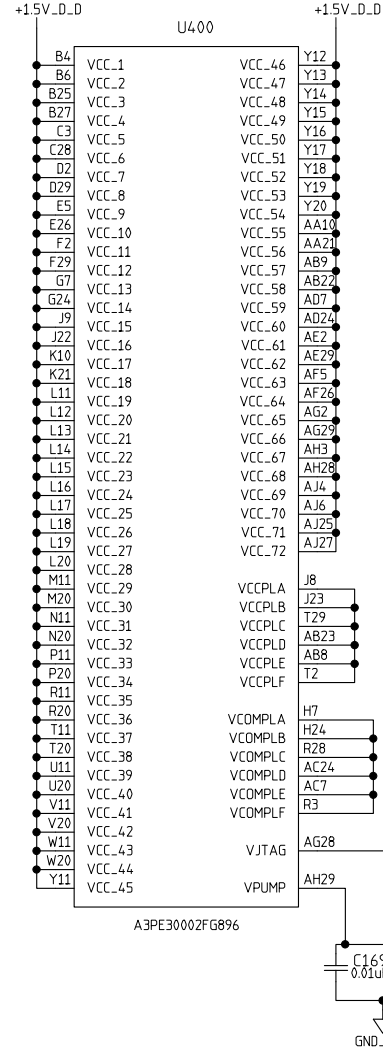
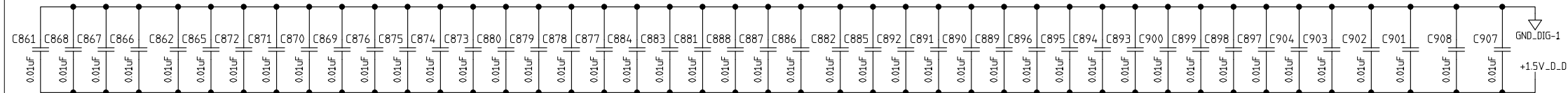
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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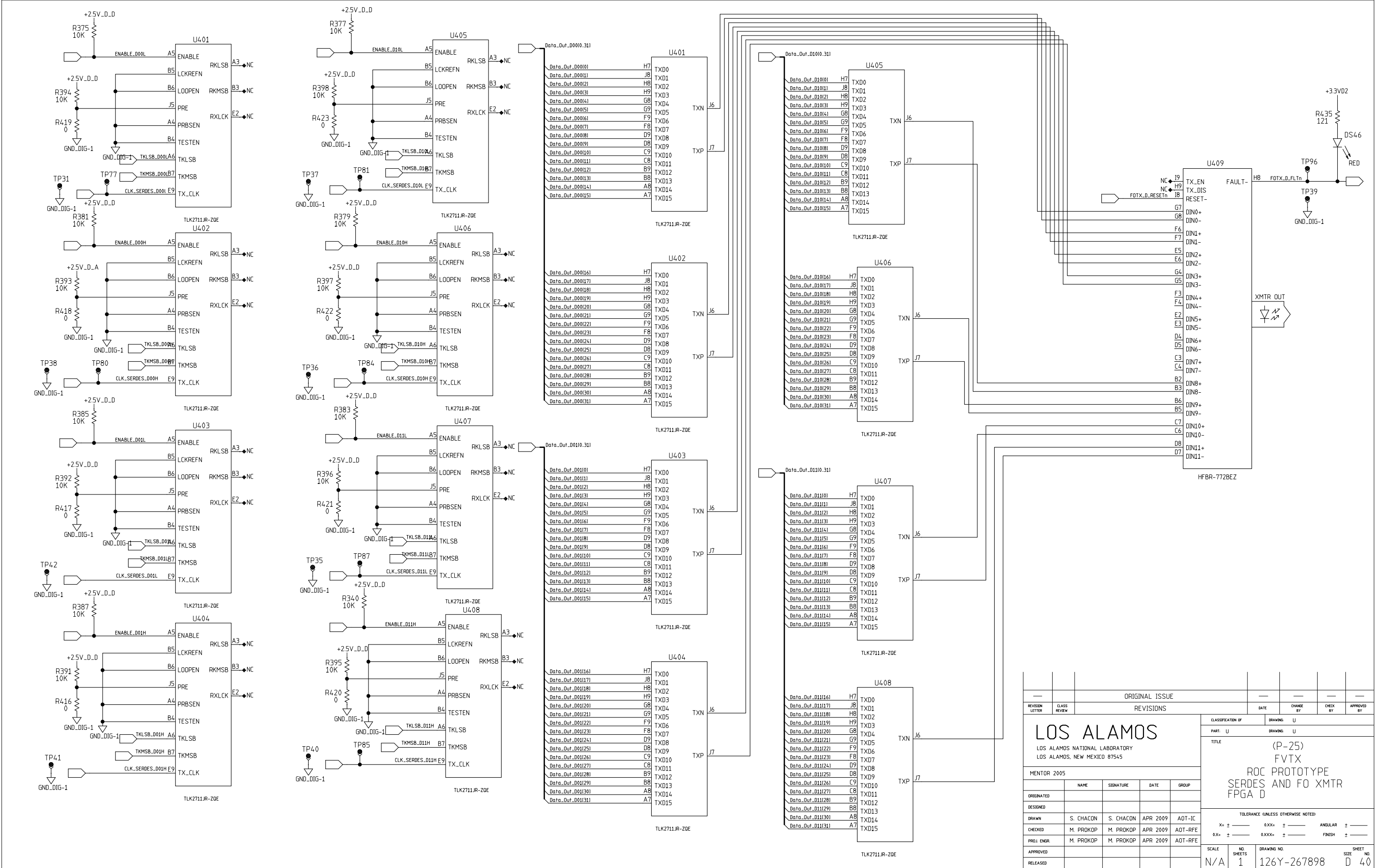
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
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CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ ENGR	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED									
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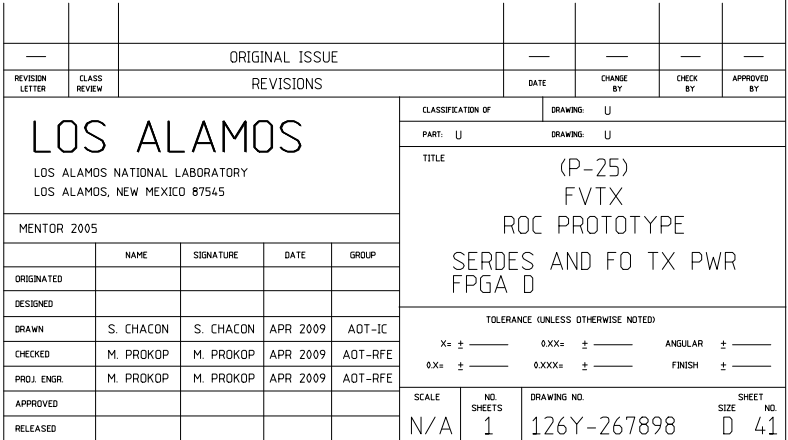
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY	
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						PART: U		DRAWING: U		
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MENTOR 2005										
	NAME	SIGNATURE	DATE	GROUP						
DESIGNED										
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC						
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE						
PROJ ENGR	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE						
APPROVED										
RELEASED										
						TOLERANCE (UNLESS OTHERWISE NOTED)				
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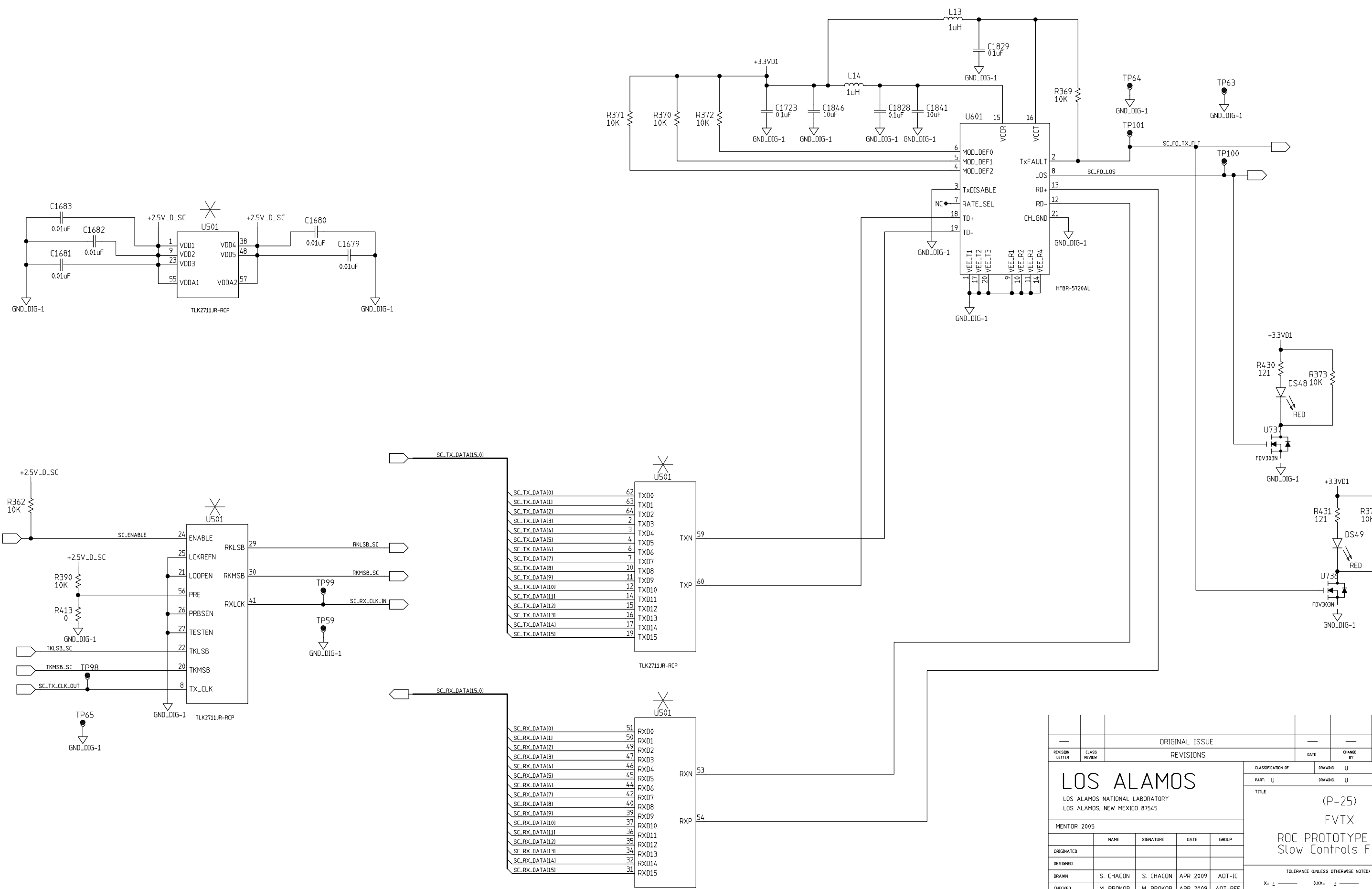


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					PART: U		DRAWING: U					
MENTOR 2005					TITLE (P-25) FVTX ROC PROTOTYPE FPGA D POWER							
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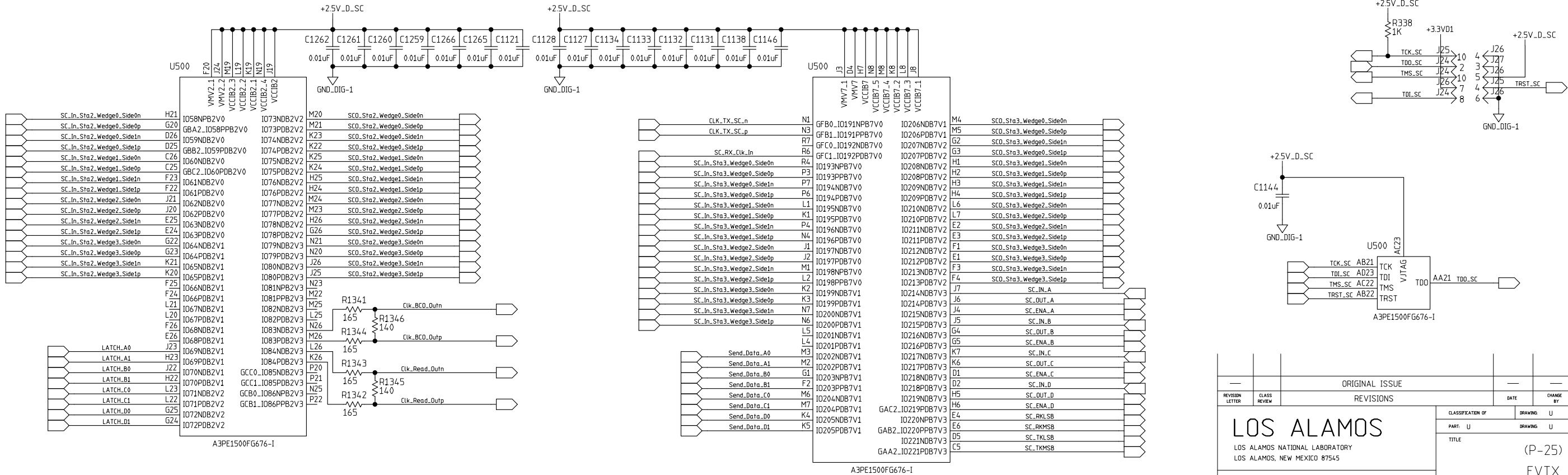
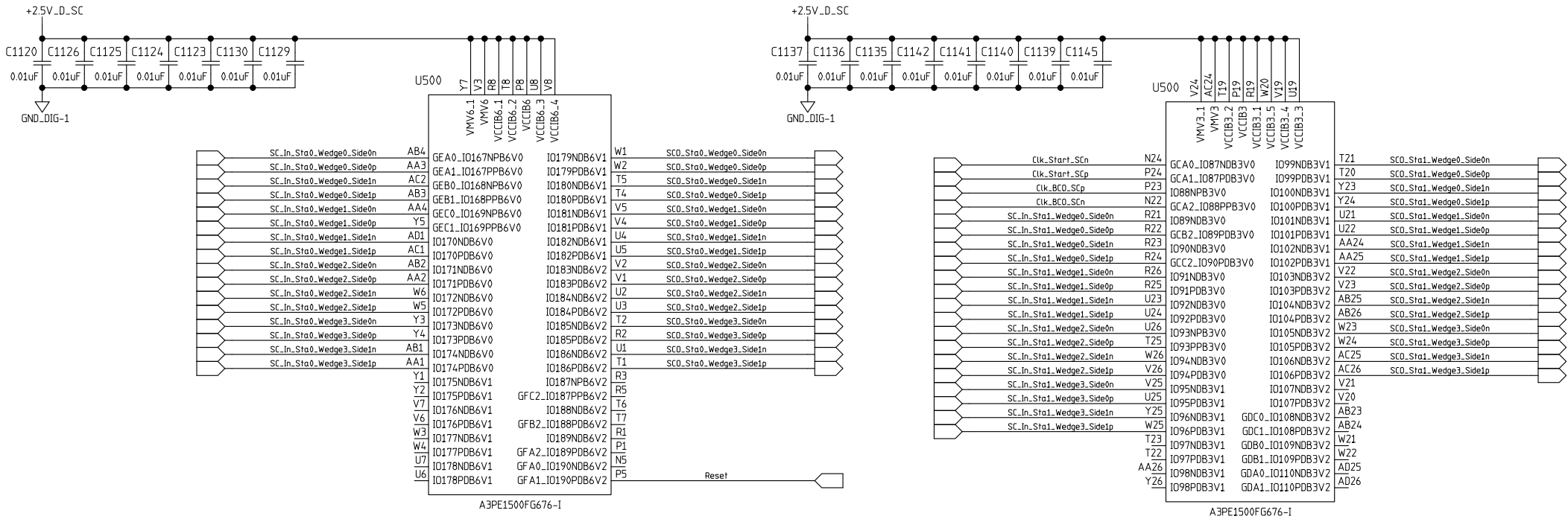


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						PART: U		DRAWING: U											
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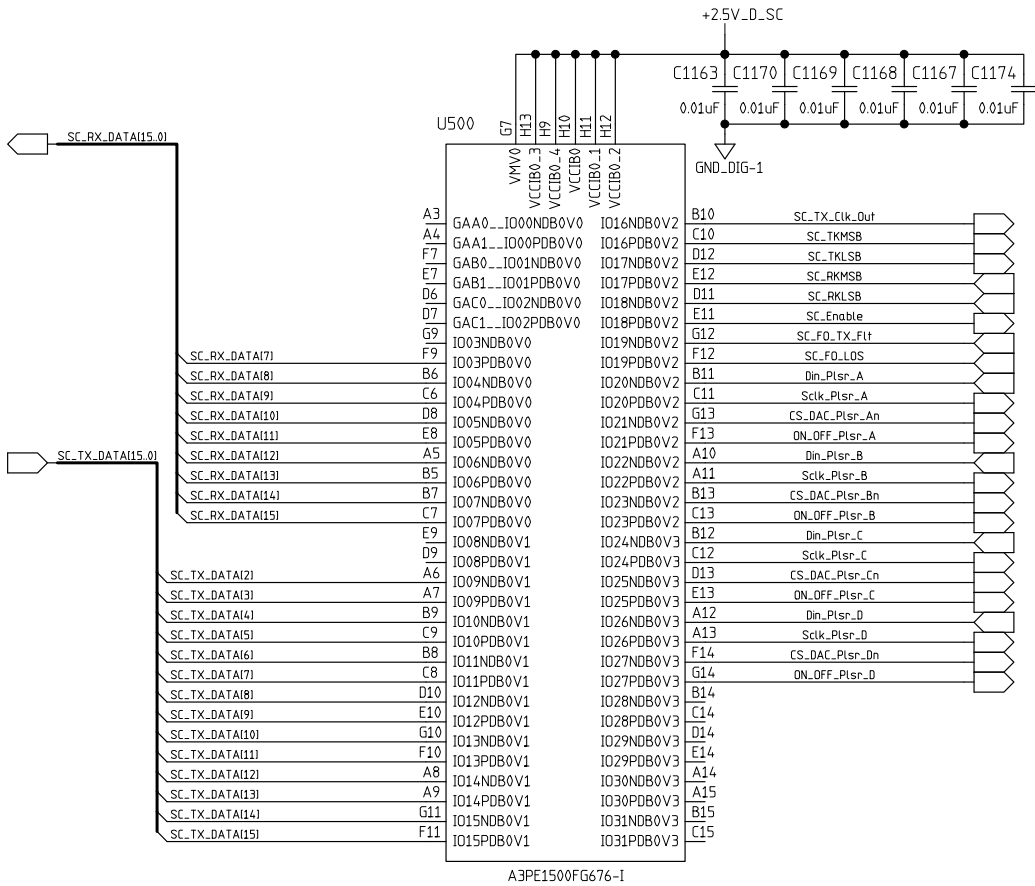
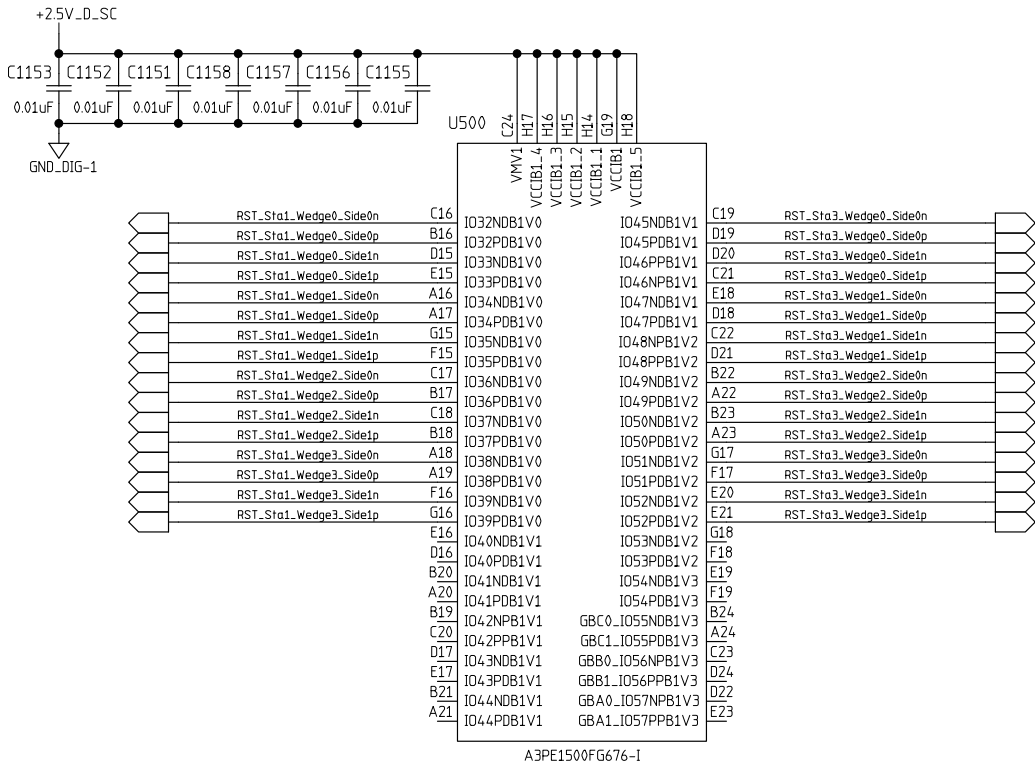
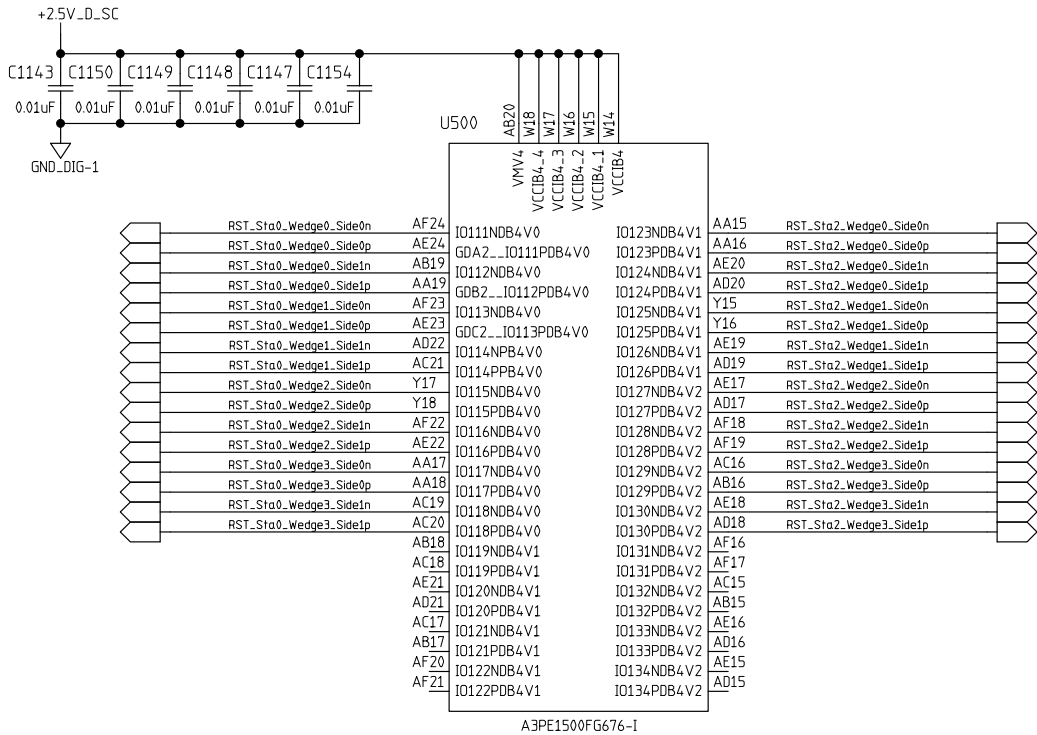


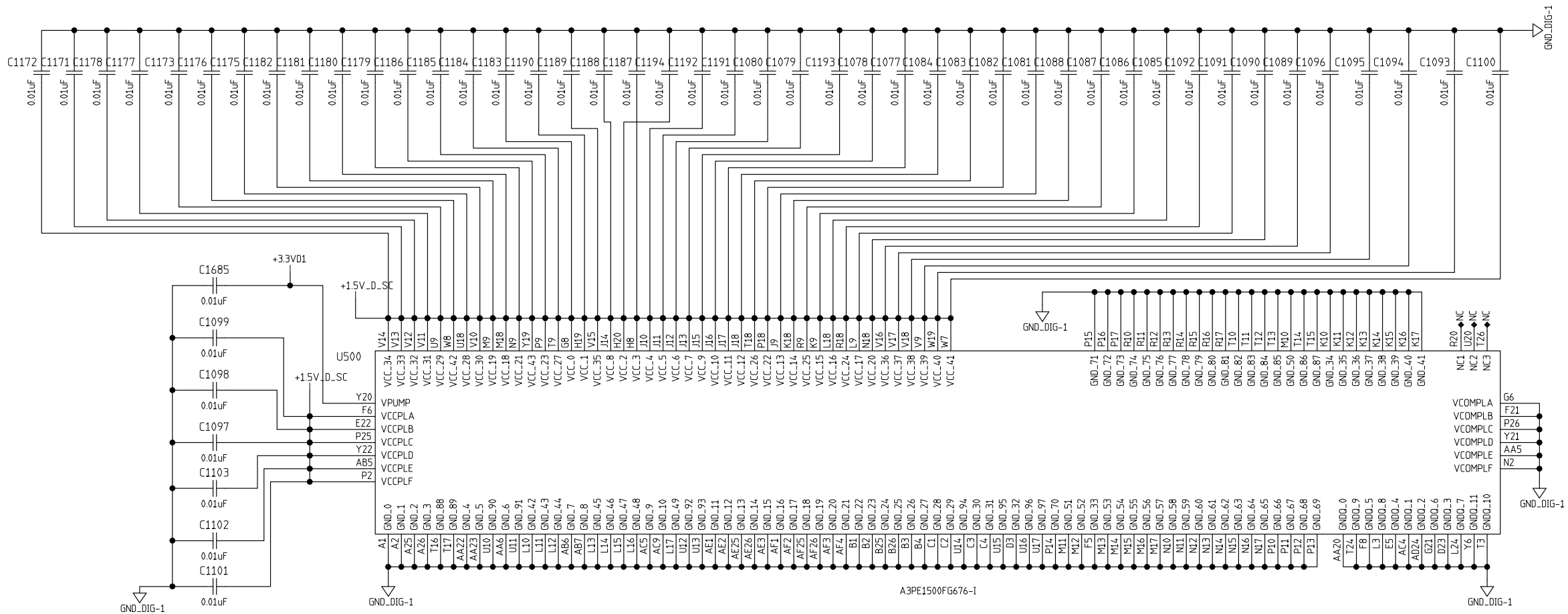


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PROJ. ENGR.		M. PROKOP		M. PROKOP		APR 2009		AOT-RFE		TOLERANCE (UNLESS OTHERWISE NOTED) X= ± _____ 0.XX= ± _____ ANGULAR ± _____ 0.X= ± _____ 0.XXX= ± _____ FINISH ± _____					
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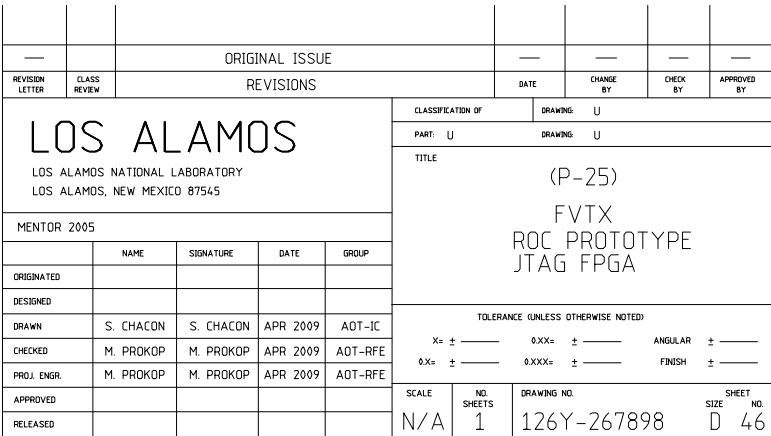
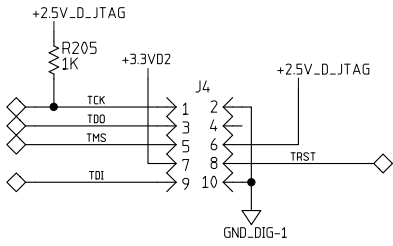


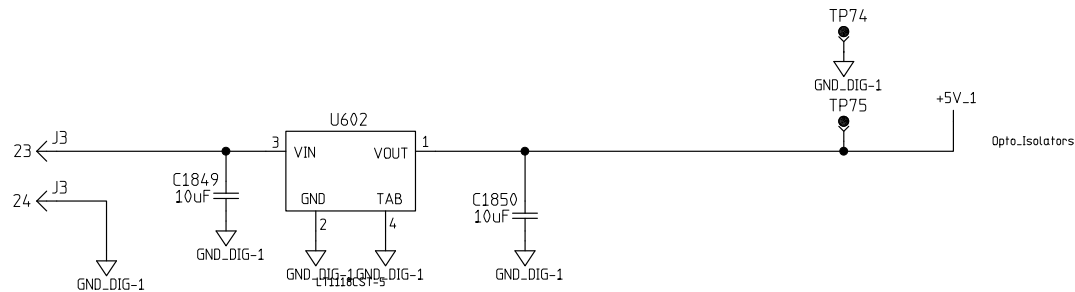
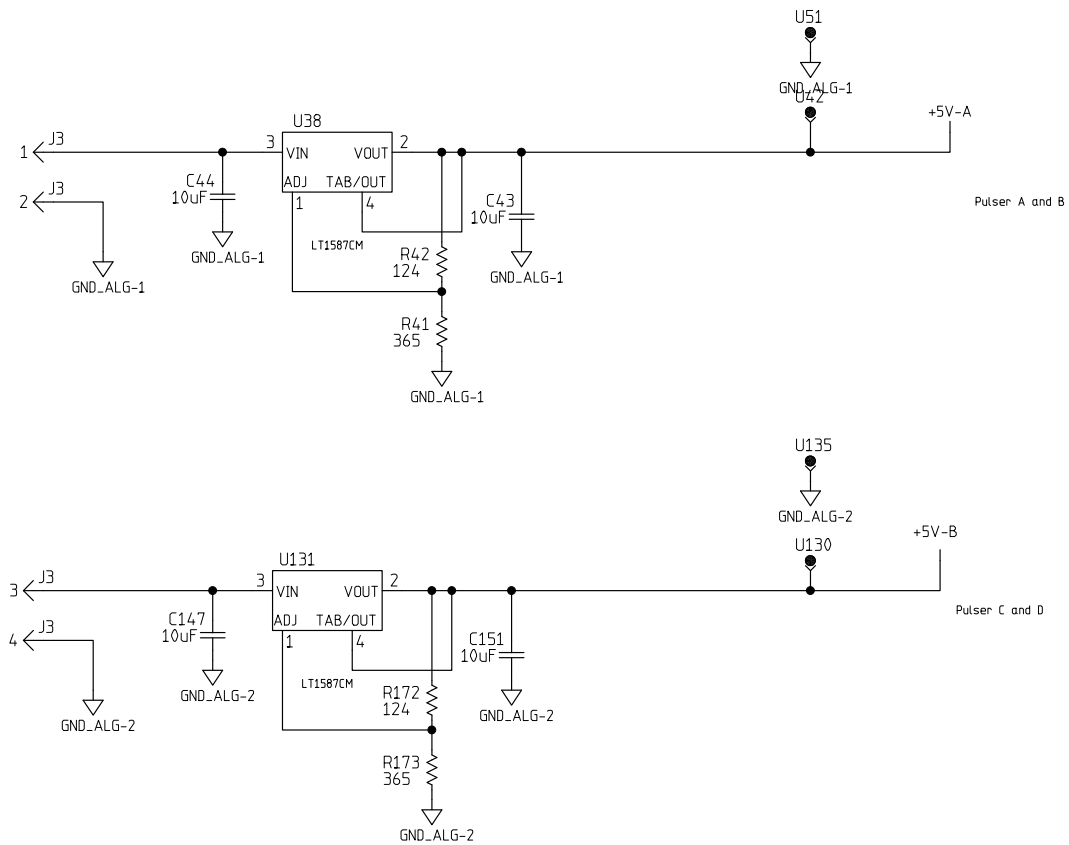
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MENTOR 2005				TITLE			
				(P-25)			
				FVTX			
				ROC PROTOTYPE			
				Slow Controls FPGA			
				TOLERANCE (UNLESS OTHERWISE NOTED)			
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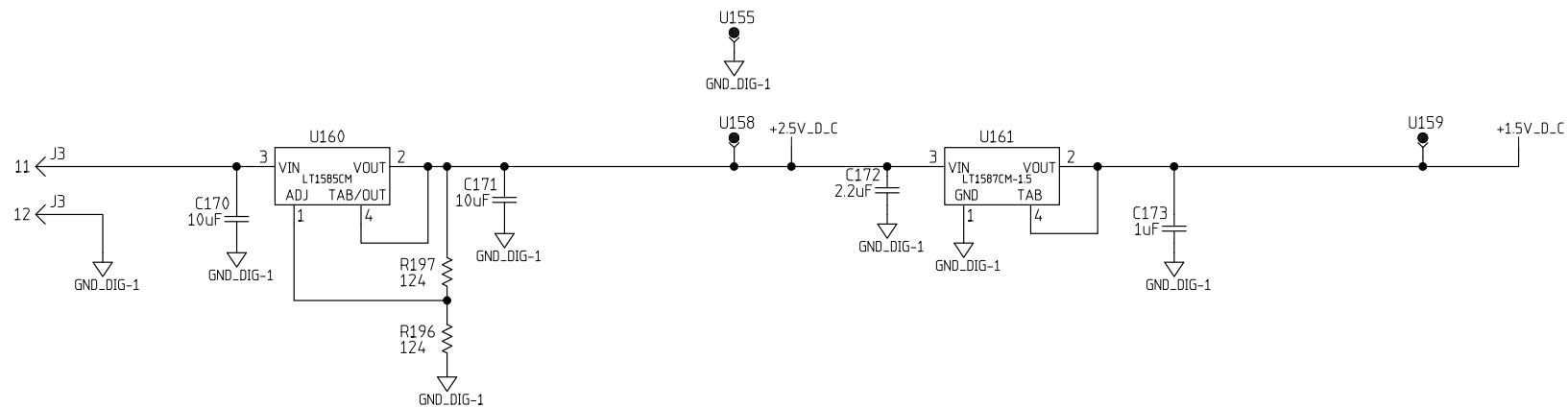


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REVISION LETTER	CLASS REVIEW	REVISIONS			DATE	CHANGE BY	CHECK BY	APPROVED BY					
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MENTOR 2005					TOLERANCE (UNLESS OTHERWISE NOTED)								
	NAME	SIGNATURE	DATE	GROUP									
ORIGINATED													
DESIGNED													
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC									
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE									
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	X= ± _____ 0.XX= ± _____ ANGULAR ± _____ 0.X= ± _____ 0.XXX= ± _____ FINISH ± _____								
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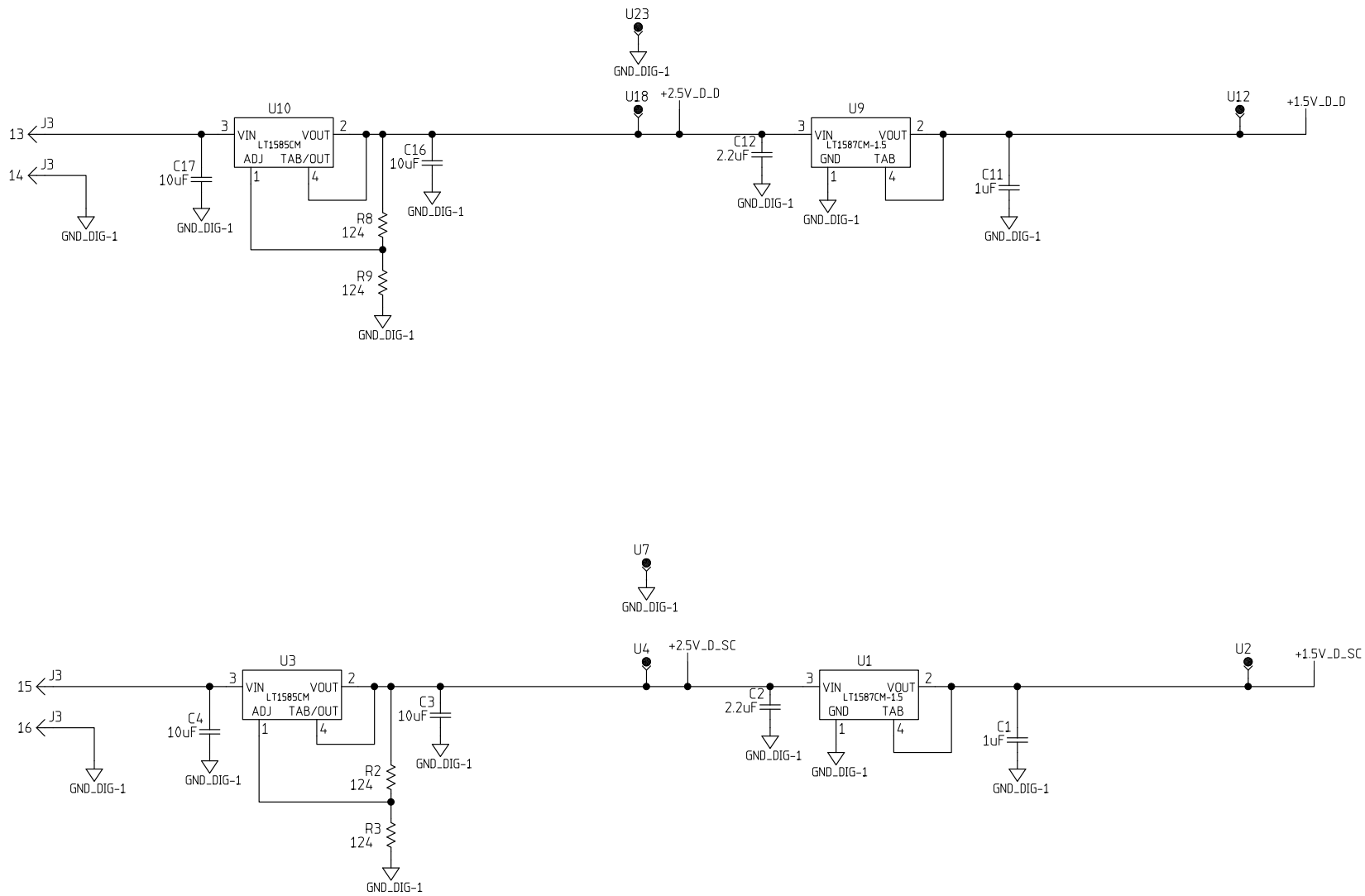




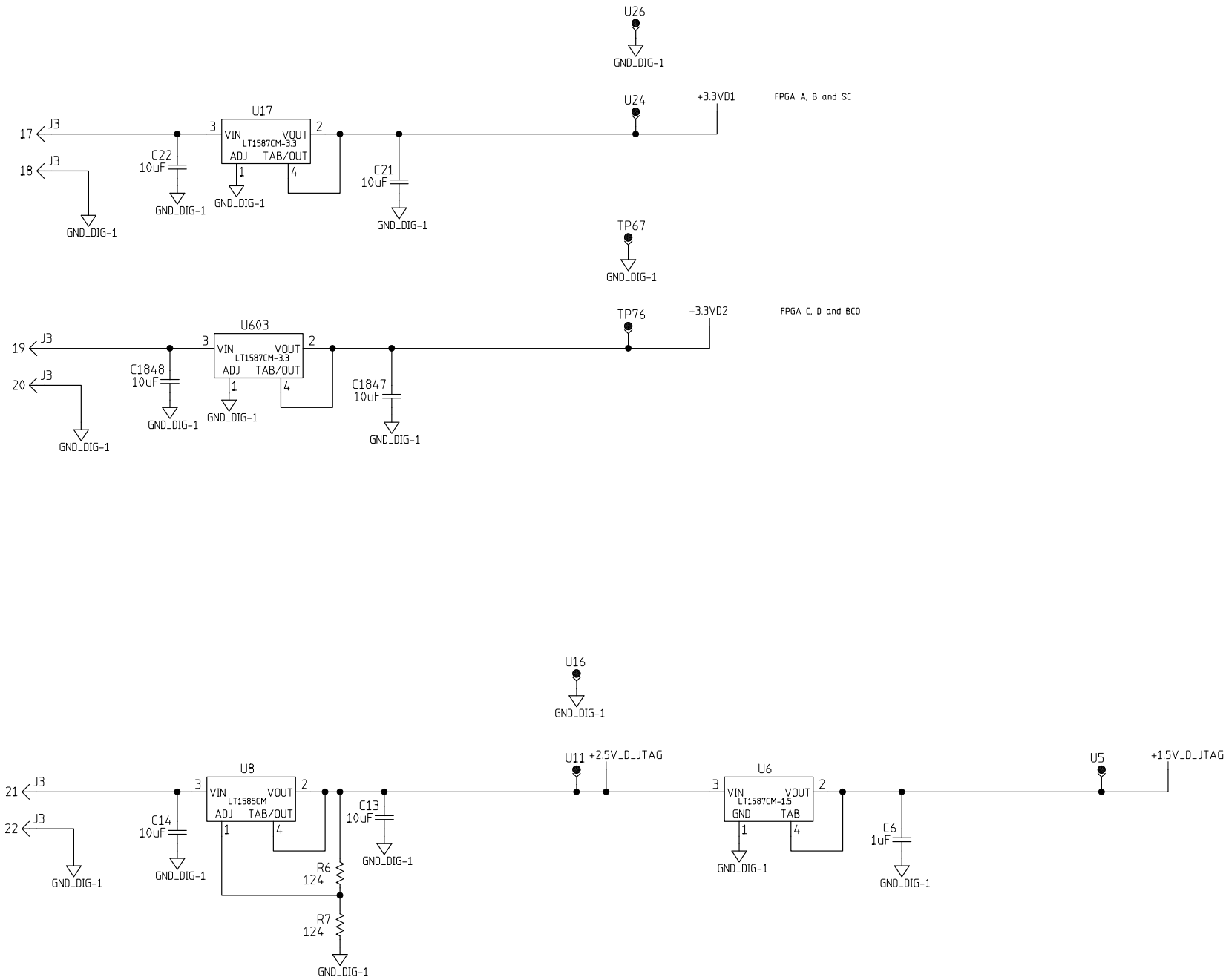
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						FVTX			
MENTOR 2005						ROC PROTOTYPE			
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	NAME	SIGNATURE	DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED)				
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DESIGNED					0.X= ± _____ 0.XXX= ± _____ FINISH ± _____				
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PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
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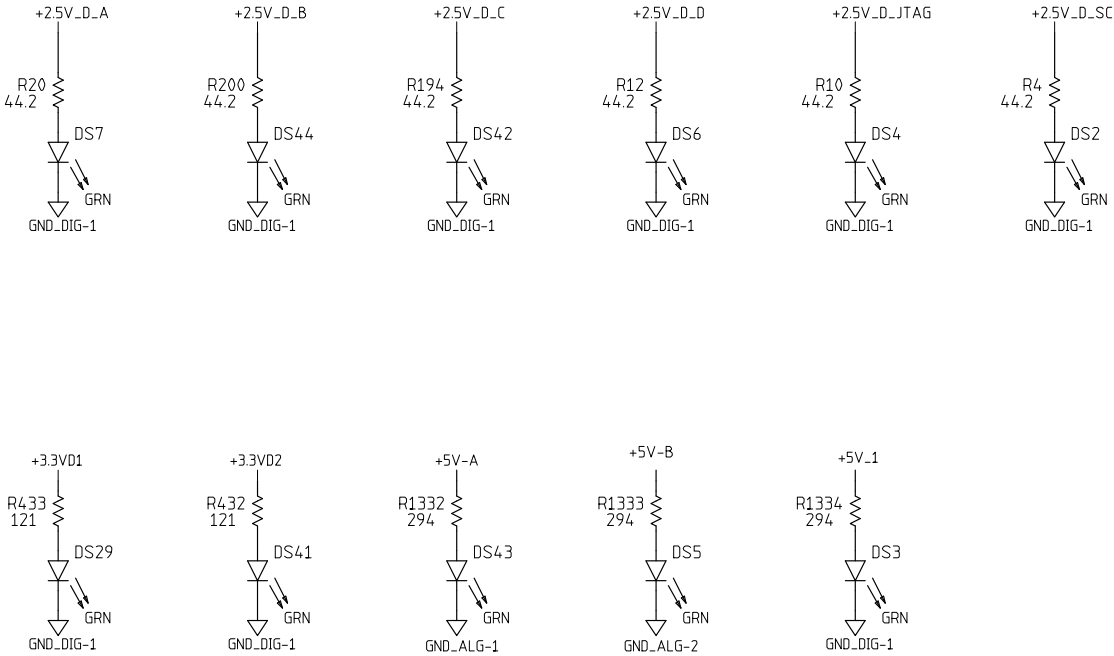
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							PART: U		DRAWING U	
							TITLE (P-25) FVTX ROC PROTOTYPE FPGA / PWR SUPPLY			
MENTOR 2005							TOLERANCE (UNLESS OTHERWISE NOTED) X± ± _____ 0.XX± ± _____ ANGULAR ± _____ 0.X± ± _____ 0.XXX± ± _____ FINISH ± _____			
	NAME	SIGNATURE	DATE	GROUP						
ORIGINATED										
DESIGNED										
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC						
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	SCALE NO. SHEETS DRAWING NO. SHEET NO. N/A 1 126Y-267898 D 48					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE						
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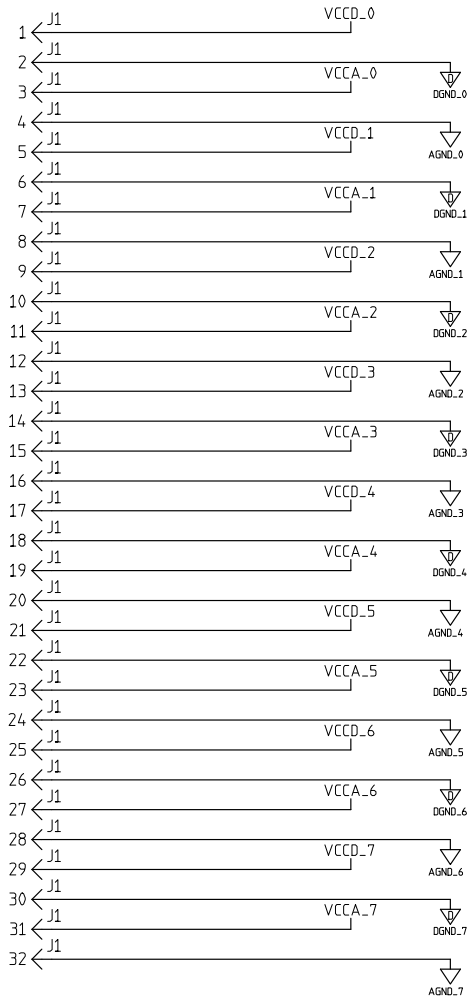
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE			
						(P-25)			
						FVTX			
MENTOR 2005						ROC PROTOTYPE			
						FPGA / PWR SUPPLY			
	NAME	SIGNATURE	DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED)				
ORIGINATED					X= ± _____ 0.XX= ± _____ ANGULAR ± _____				
DESIGNED					0.X= ± _____ 0.XXX= ± _____ FINISH ± _____				
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC					
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED					SCALE	NO. SHEETS	DRAWING NO.	SIZE	SHEET NO.
RELEASED					N/A	1	126Y-267898	D	49



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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE			
						(P-25)			
						FVTX			
						ROC PROTOTYPE			
						FO/JTAG/PWR SUPPLY			
MENTOR 2005						TOLERANCE (UNLESS OTHERWISE NOTED) X= ± 0.XX= ± ANGULAR ± 0.X= ± 0.XXX= ± FINISH ±			
	NAME	SIGNATURE	DATE	GROUP					
ORIGINATED									
DESIGNED									
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC					
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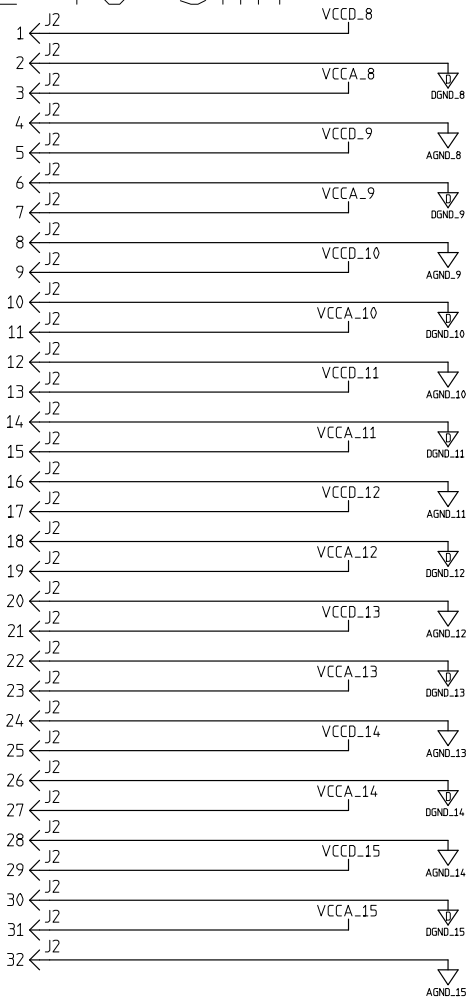


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						TITLE			
						(P-25) FVTX ROC PROTOTYPE SC_/PWR SUPPLY			
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	NAME	SIGNATURE	DATE	GROUP					
ORIGINATED									
DESIGNED									
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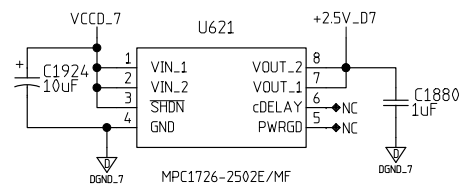
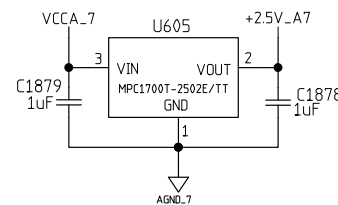
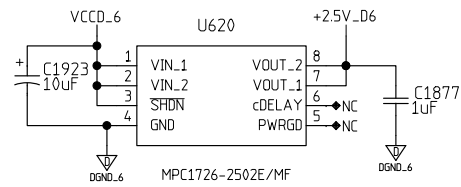
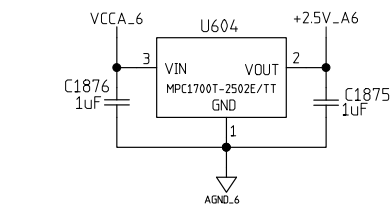
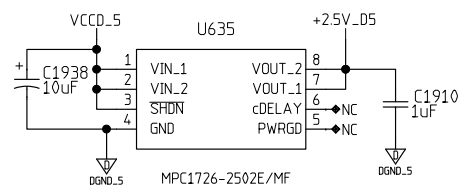
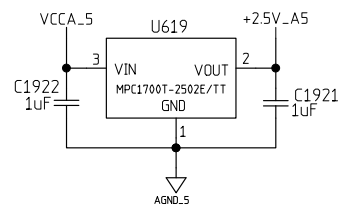
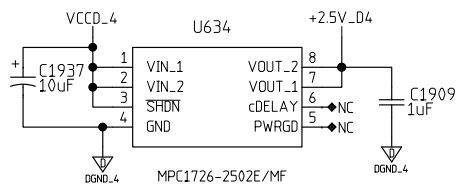
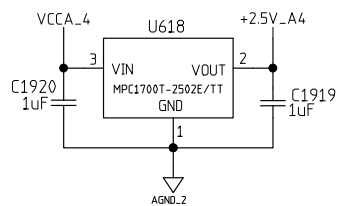
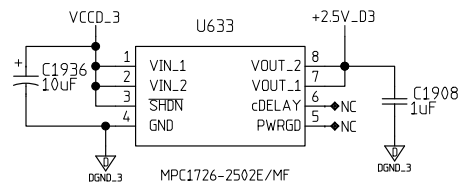
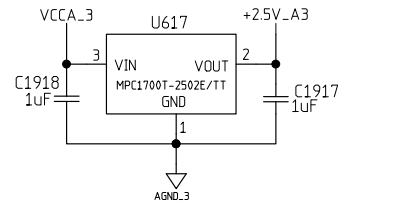
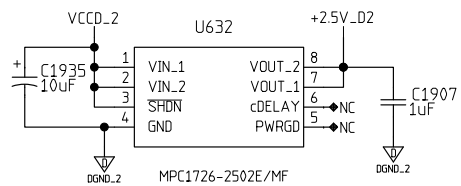
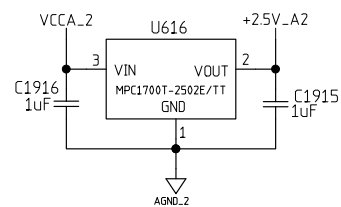
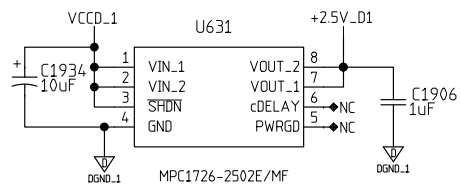
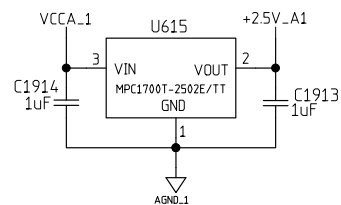
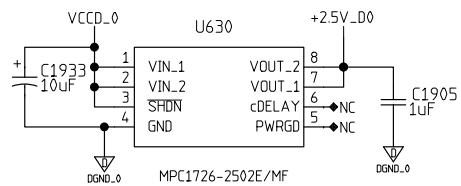
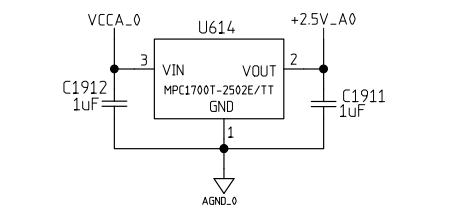


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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE			
						(P-25) FVTX ROC PROTOTYPE Station 0-1 Wedge Power			
MENTOR 2005						TOLERANCE (UNLESS OTHERWISE NOTED) X _s ± ——— 0.XXX _s ± ——— ANGULAR ± ——— 0.X _s ± ——— 0.XXX _s ± ——— FINISH ± ———			
	NAME	SIGNATURE	DATE	GROUP					
ORIGINATED									
DESIGNED									
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC	SCALE NO. SHEETS DRAWING NO. SIZE SHEET NO. N/A 1 126Y-267898 D 52				
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED									
RELEASED									

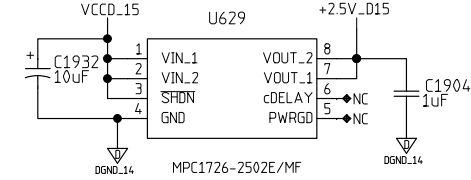
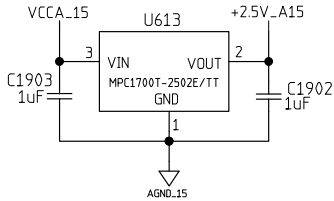
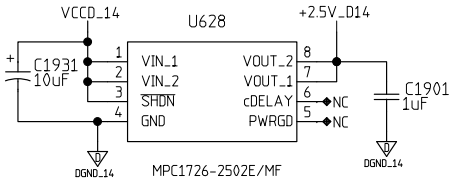
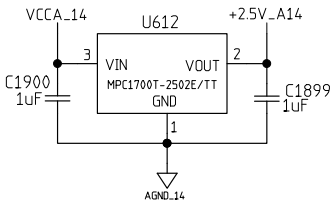
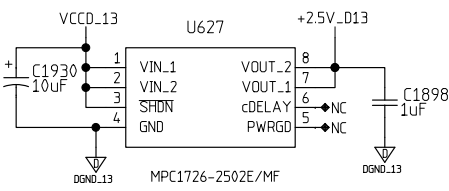
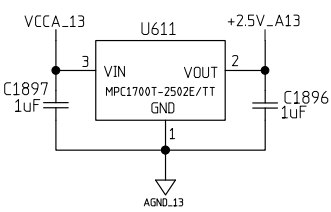
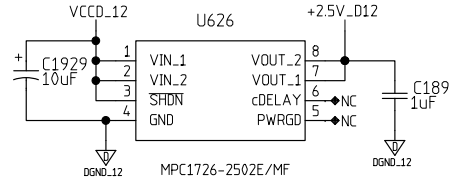
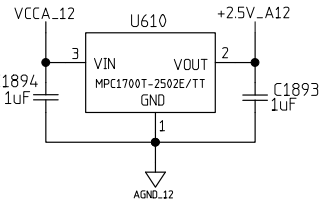
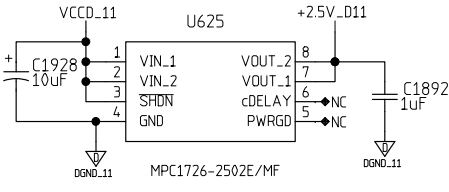
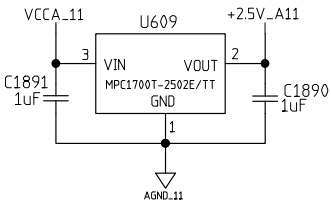
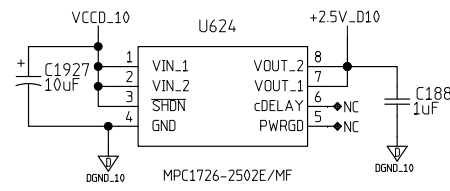
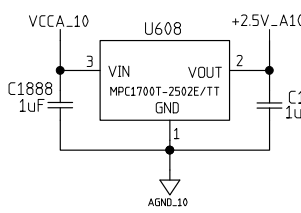
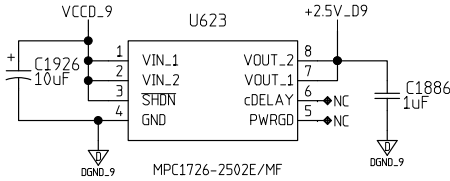
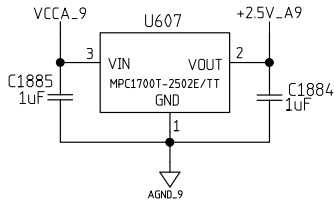
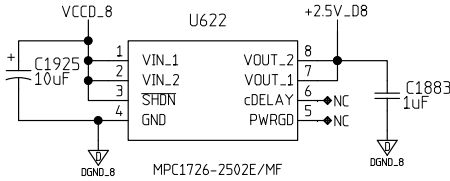
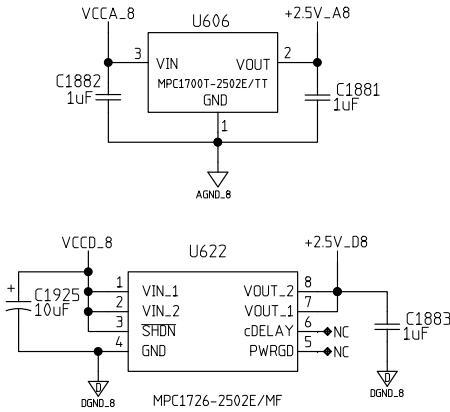
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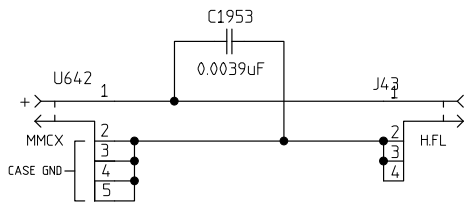
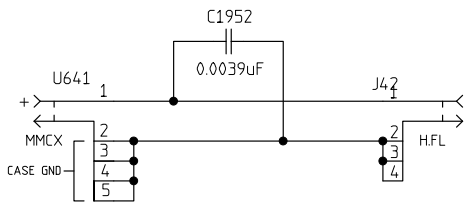
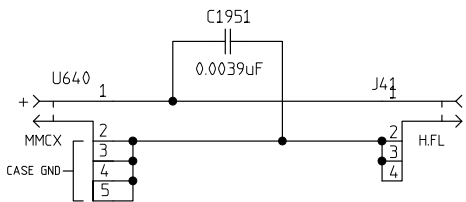
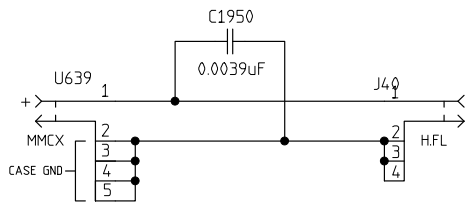
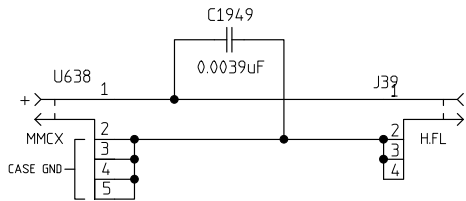
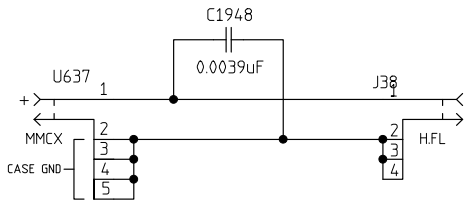
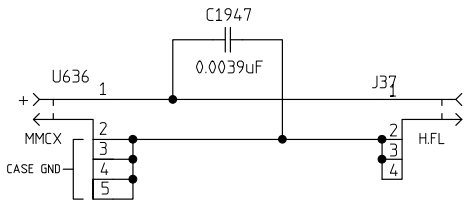
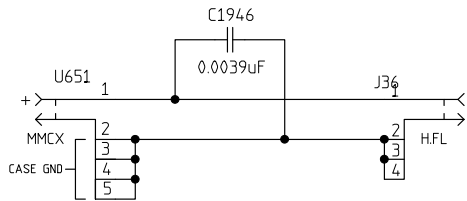
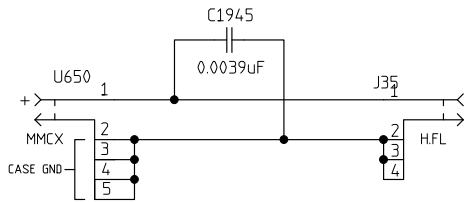
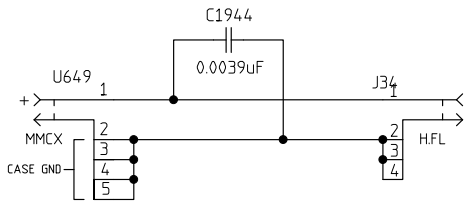
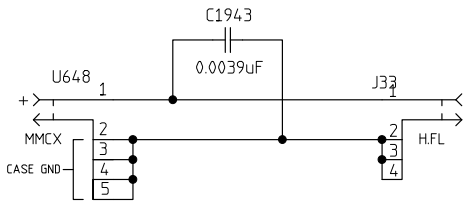
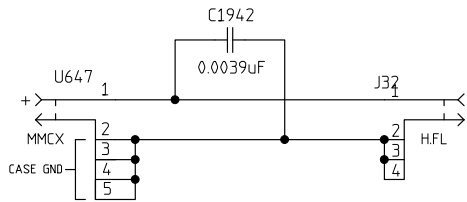
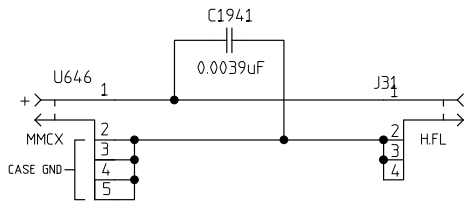
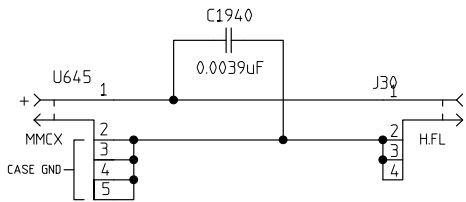
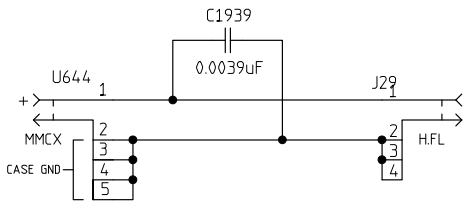
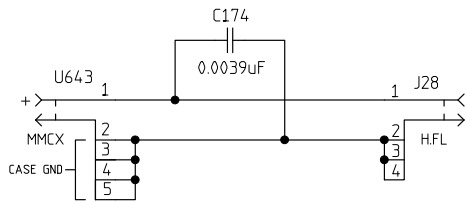
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE			
						(P-25)			
						FVTX			
MENTOR 2005						ROC PROTOTYPE			
						Station 2-3 Wedge Power			
ORIGINATED		NAME	SIGNATURE	DATE	GROUP	TOLERANCE (UNLESS OTHERWISE NOTED)			
DESIGNED						X= ± _____ 0.XX= ± _____ ANGULAR ± _____			
DRAWN		S. CHACON	S. CHACON	APR 2009	AOT-IC	0.X= ± _____ 0.XXX= ± _____ FINISH ± _____			
CHECKED		M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	SCALE NO. SHEETS DRAWING NO.			
PROJ. ENGR.		M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	N/A 1		126Y-267898	
APPROVED								SHEET NO.	
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—		ORIGINAL ISSUE						—		—	
REVISION LETTER	CLASS REVIEW	REVISIONS						DATE	CHANGE BY	CHECK BY	APPROVED BY
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							PART: U		DRAWING U		
							TITLE (P-25) FVTX ROC PROTOTYPE Station 0-1 Power Supplies				
							TOLERANCE (UNLESS OTHERWISE NOTED)		X= ± _____		0.XX= ± _____
0.X= ± _____		0.XXX= ± _____		FINISH ± _____							
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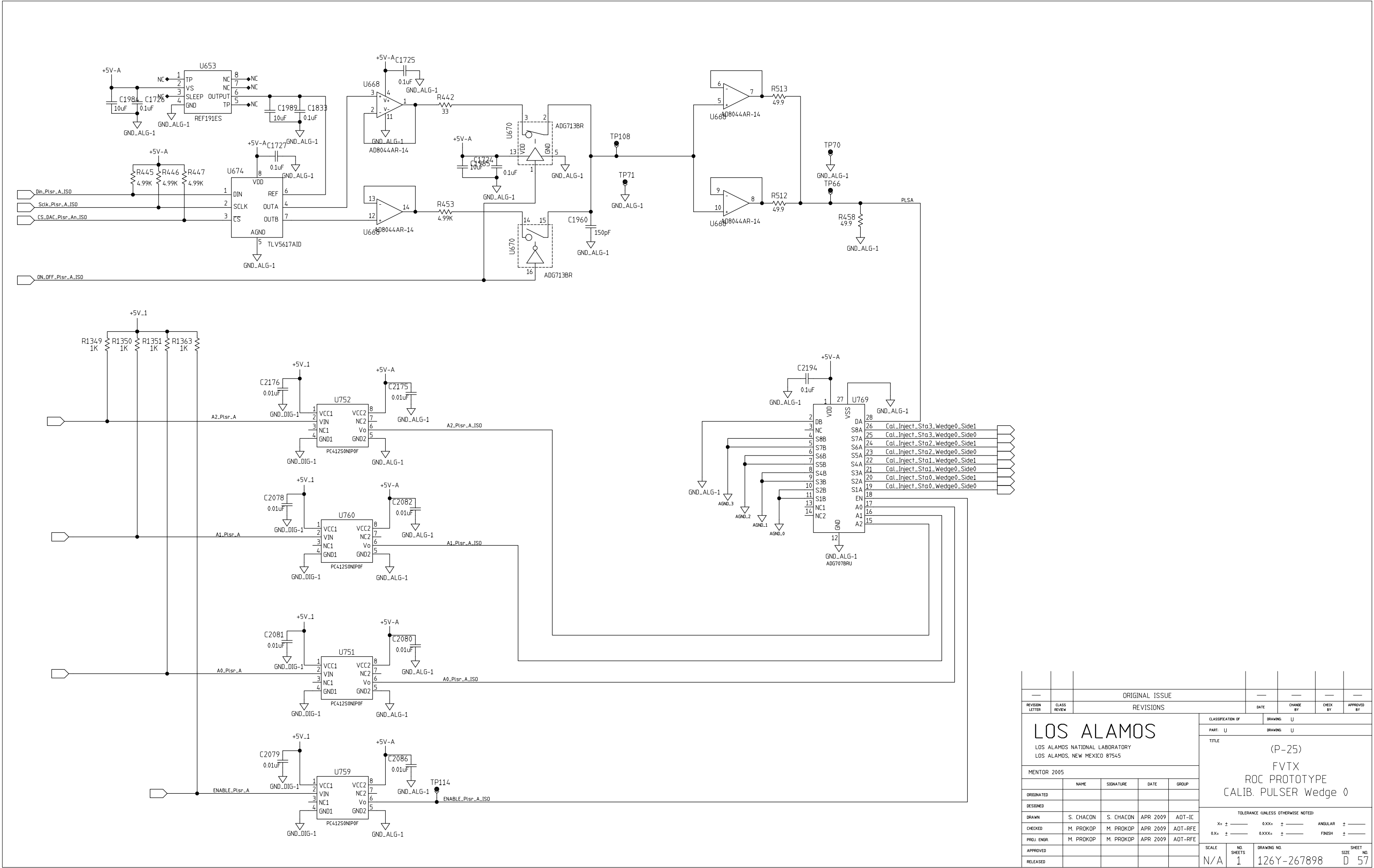


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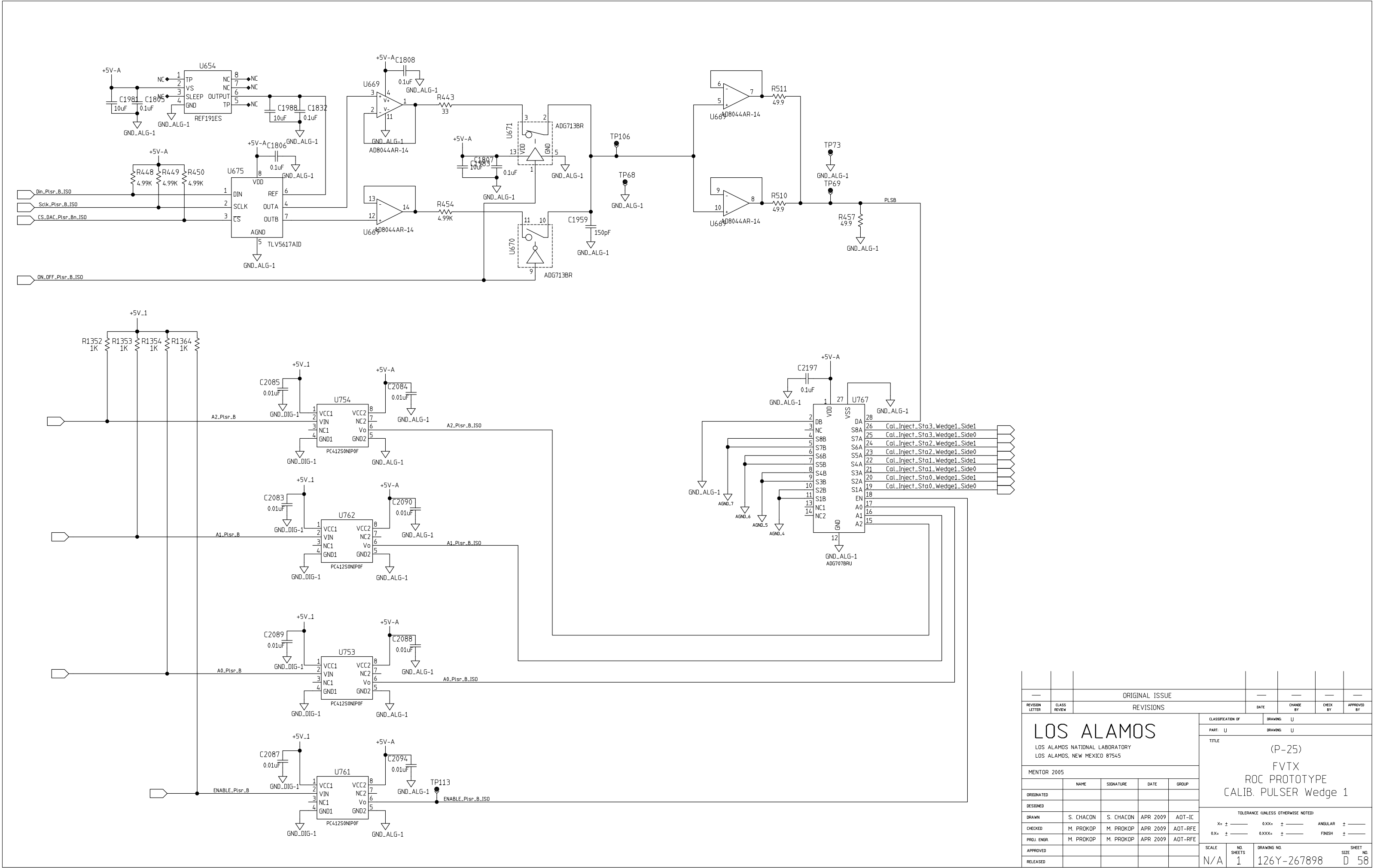


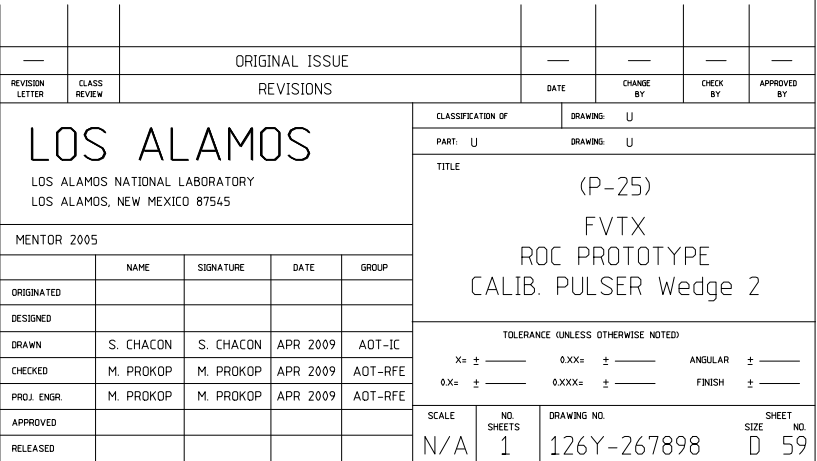
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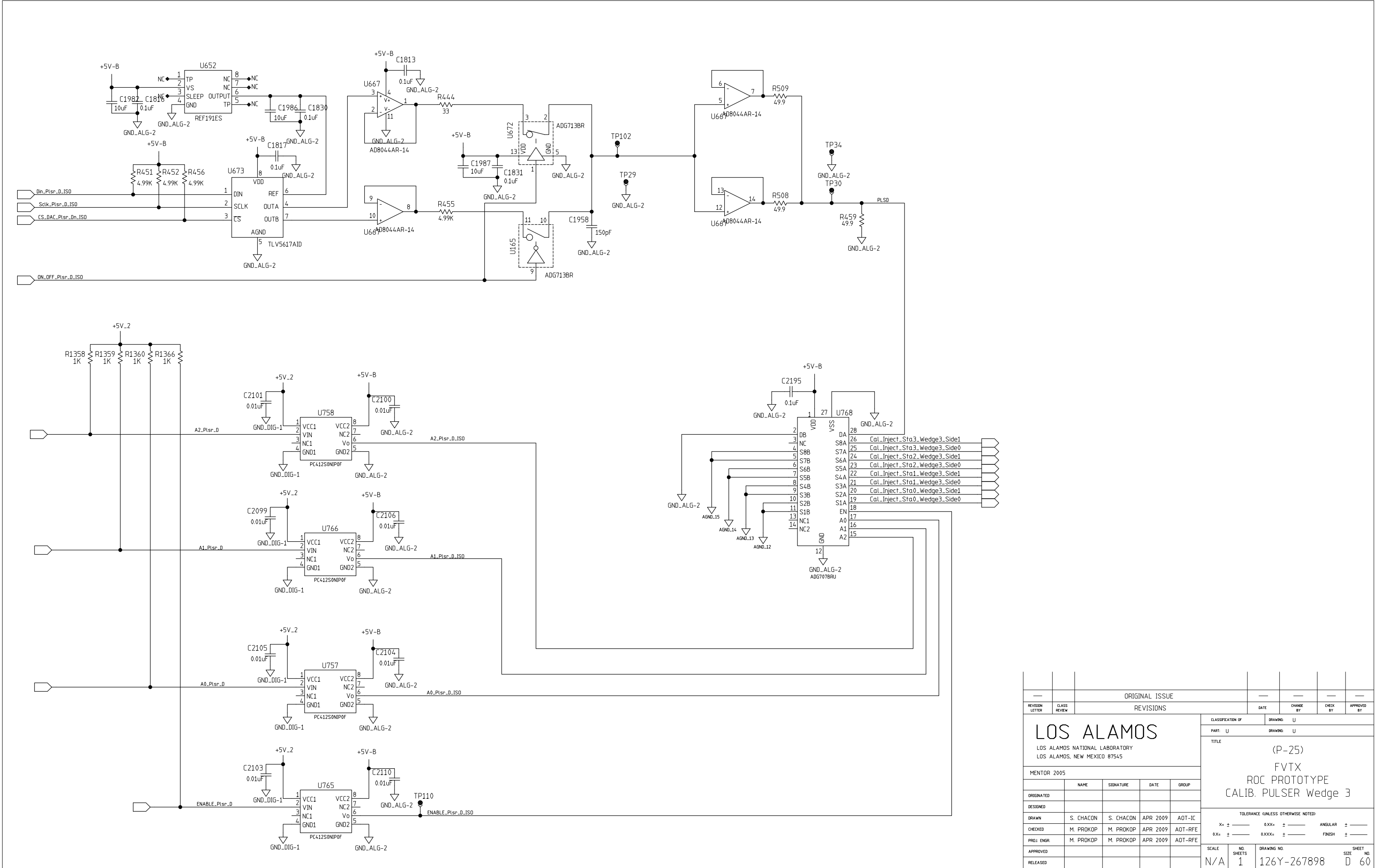
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE			
						(P-25)			
						FVTX			
MENTOR 2005						ROC PROTOTYPE			
ORIGINATED						Bias Power Supply Connections			
DESIGNED									
DRAWN S. CHACON						TOLERANCE (UNLESS OTHERWISE NOTED)			
CHECKED M. PROKOP						X= ± ——— 0.XX= ± ——— ANGULAR ± ———			
PROJ. ENGR. M. PROKOP						6.X= ± ——— 0.XXX= ± ——— FINISH ± ———			
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RELEASED									
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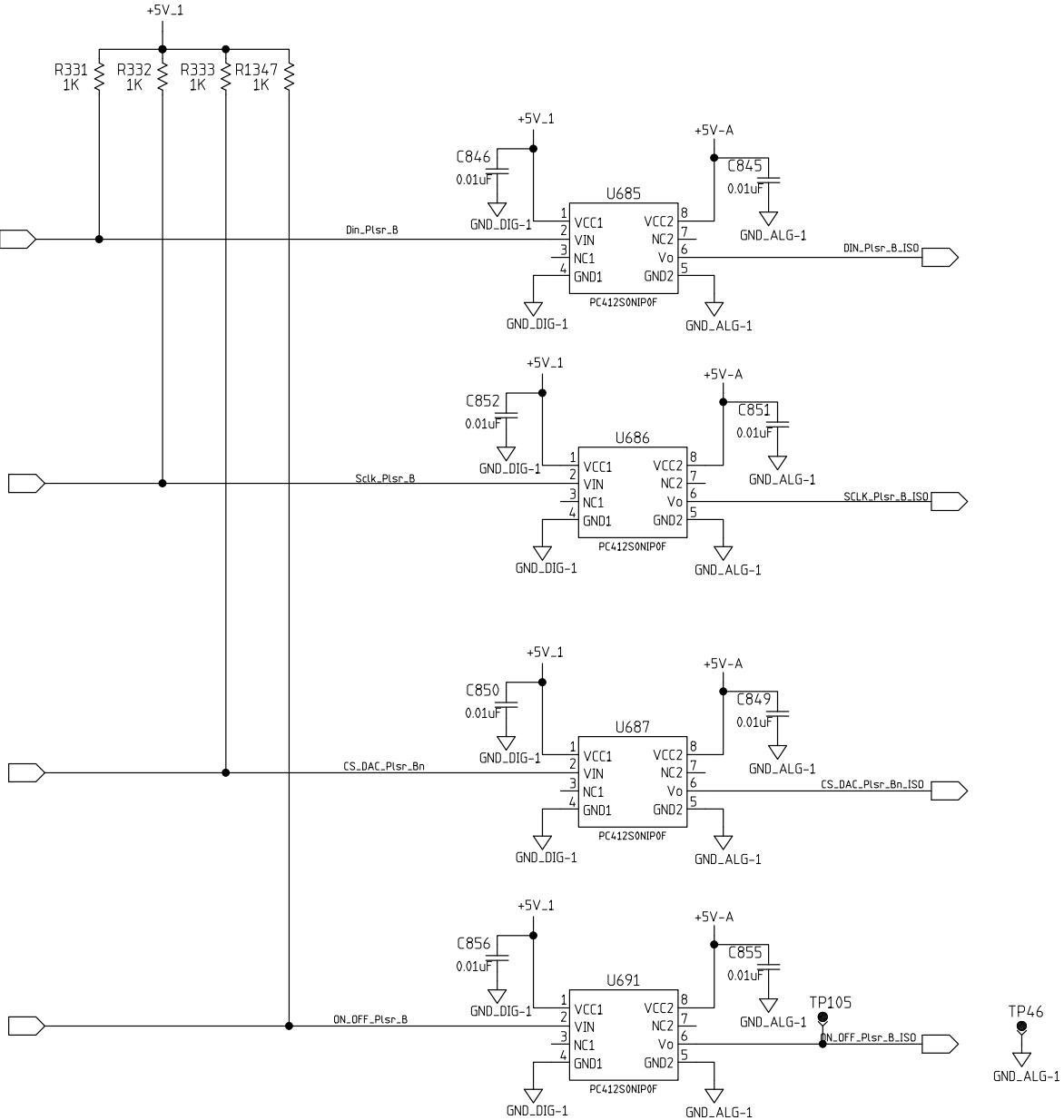
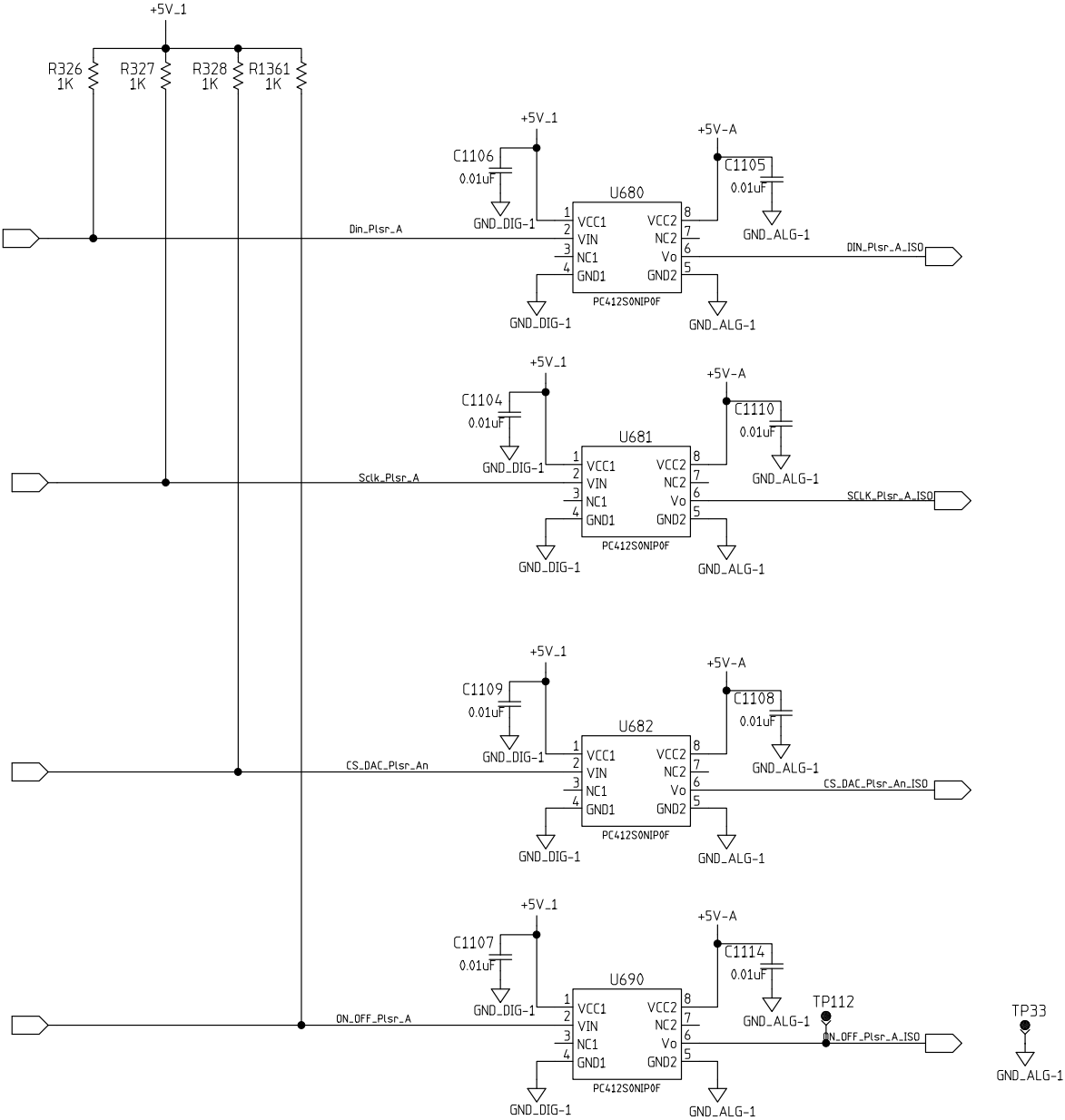
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE (P-25) FVTX ROC PROTOTYPE CALIB. PULSER Wedge 0			
						TOLERANCE (UNLESS OTHERWISE NOTED) X= ± ——— 0.XX= ± ——— ANGULAR ± ——— 0.X= ± ——— 0.XXX= ± ——— FINISH ± ———			
SCALE	NO. SHEETS	DRAWING NO.		SHEET NO.					
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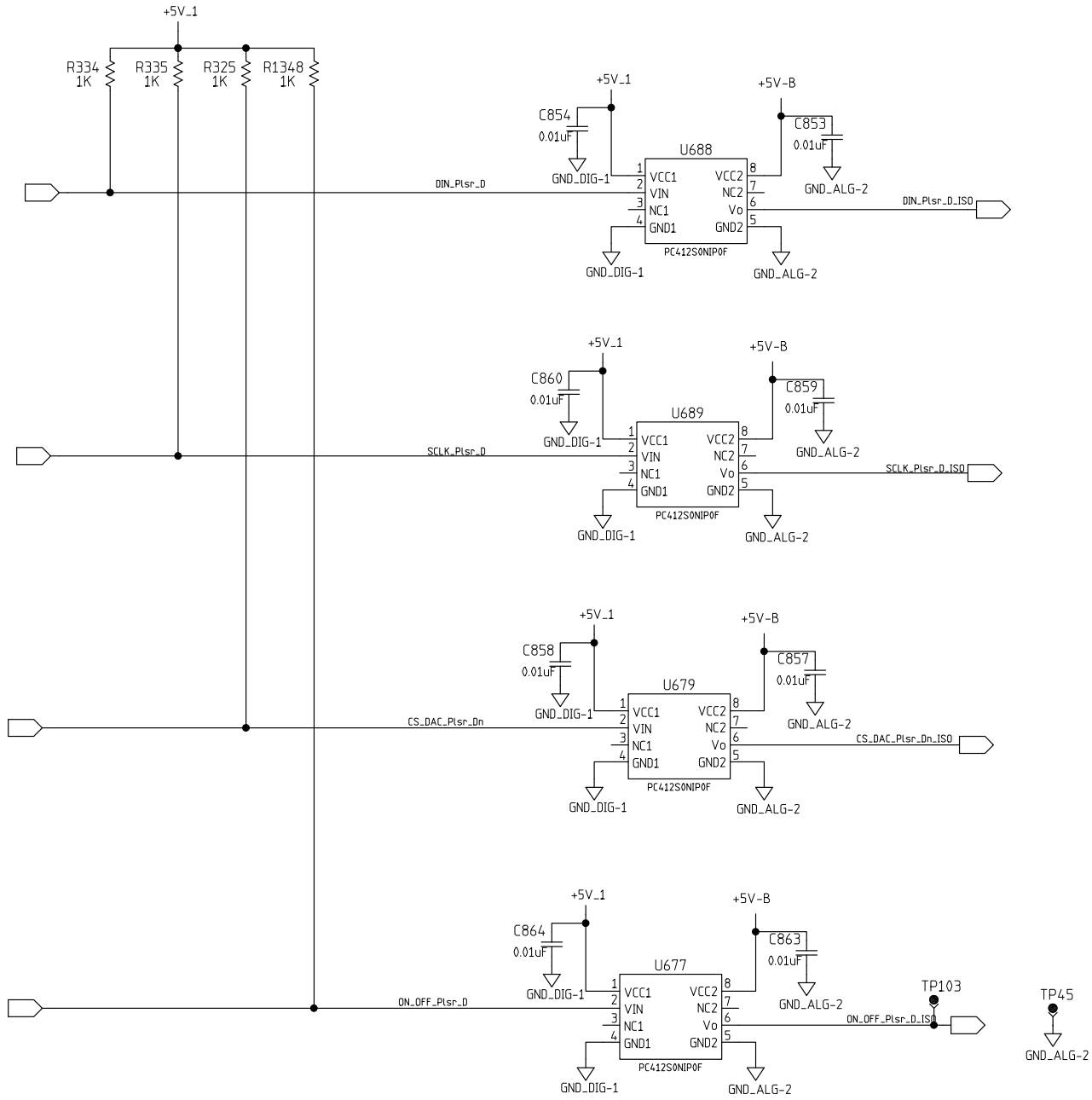
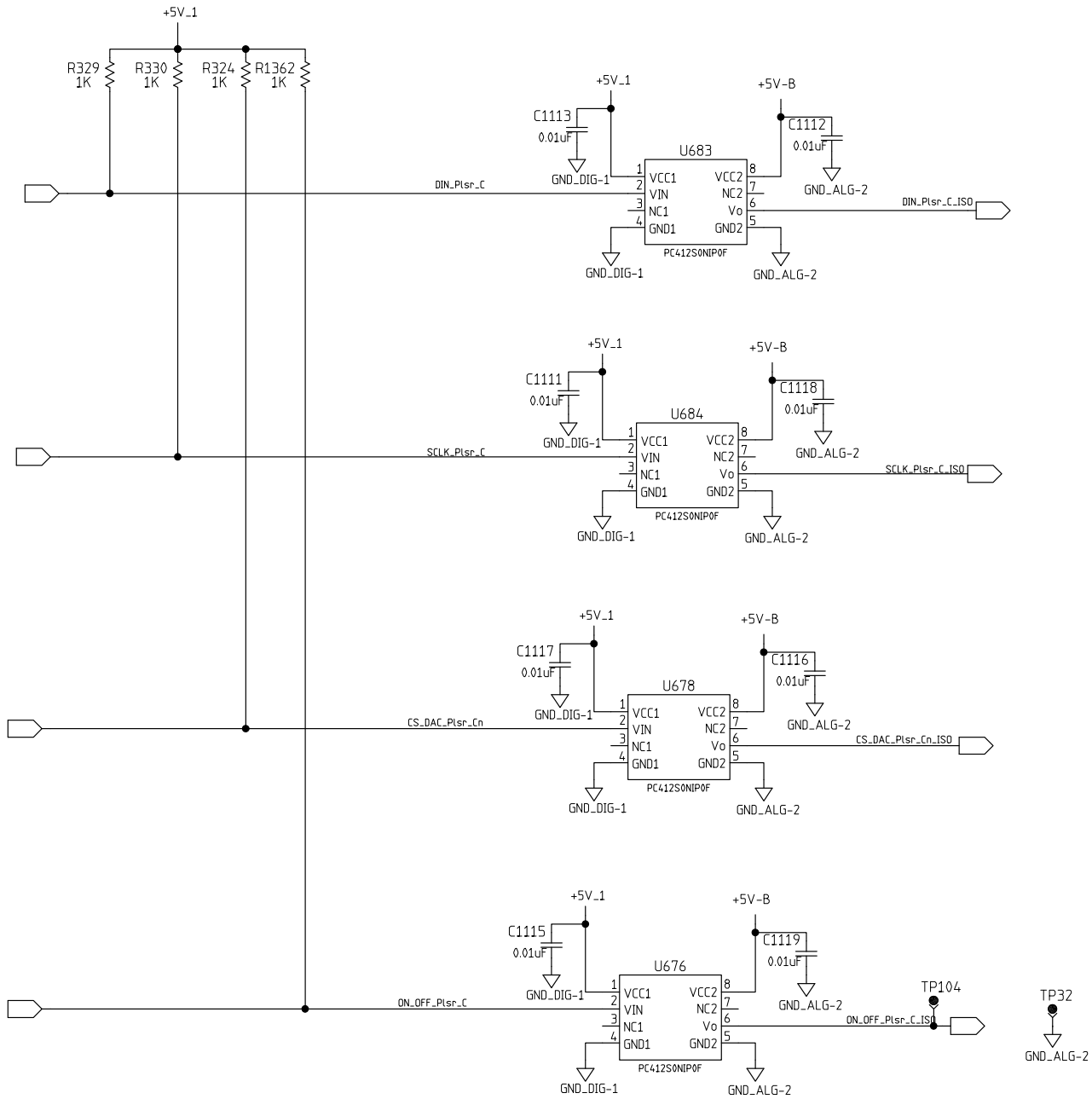




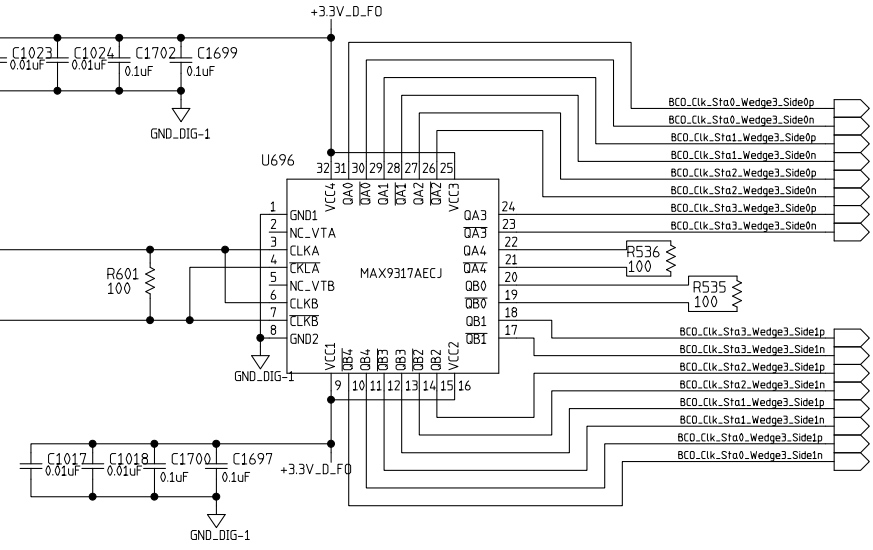
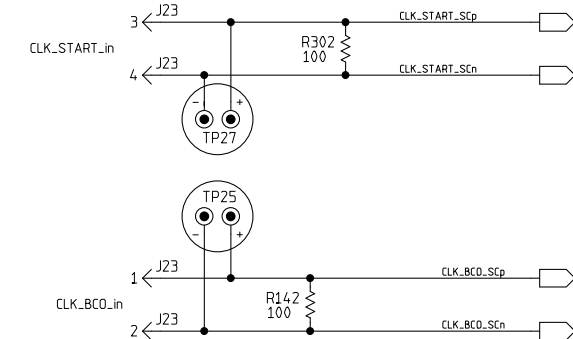
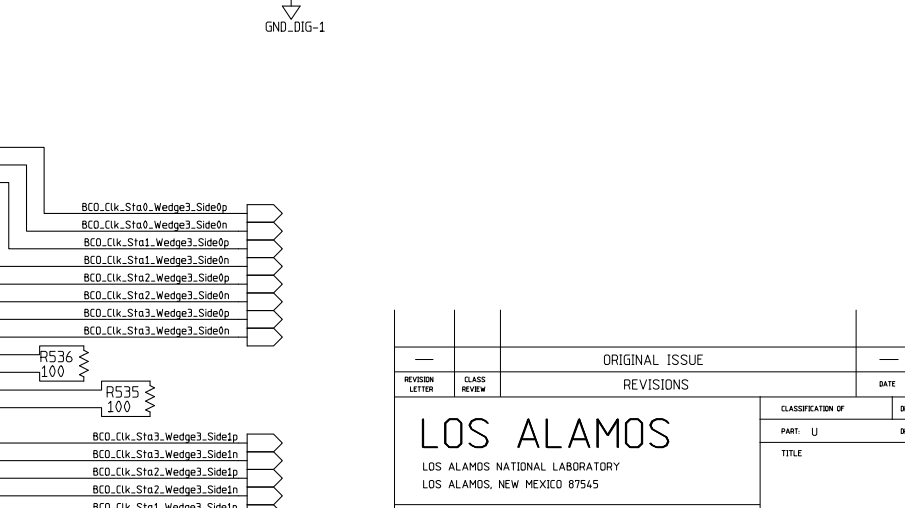
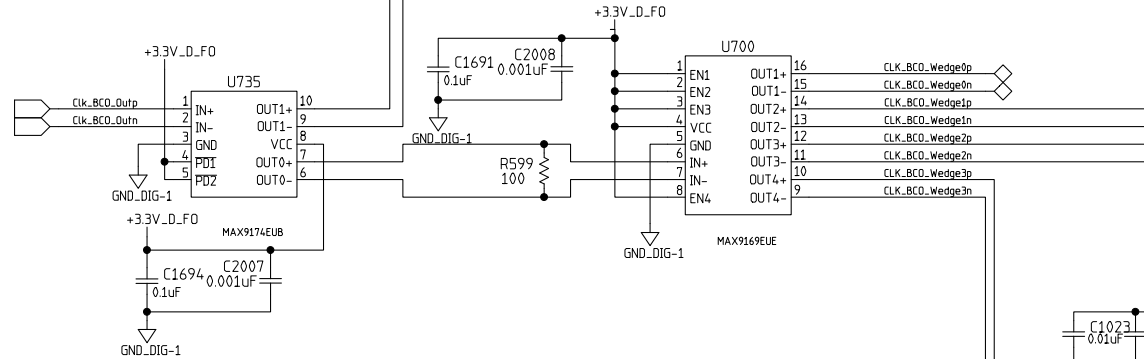
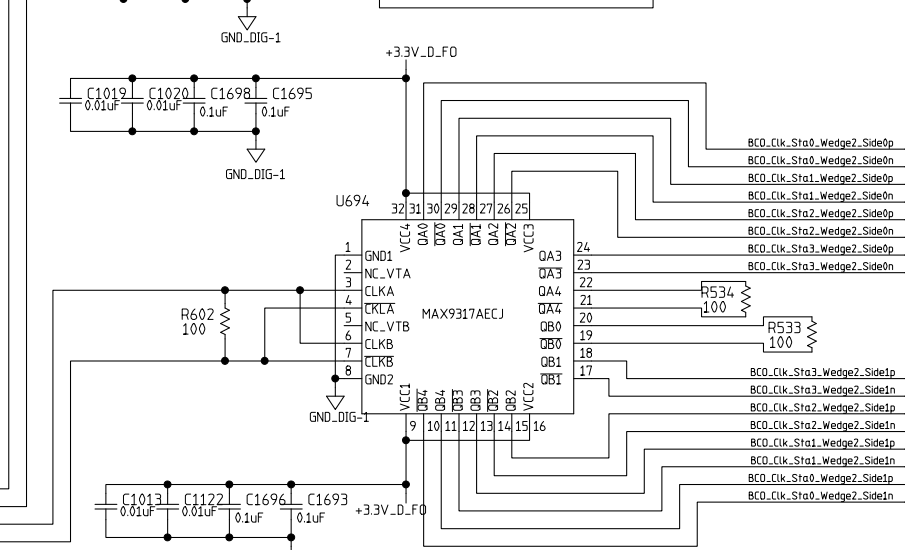
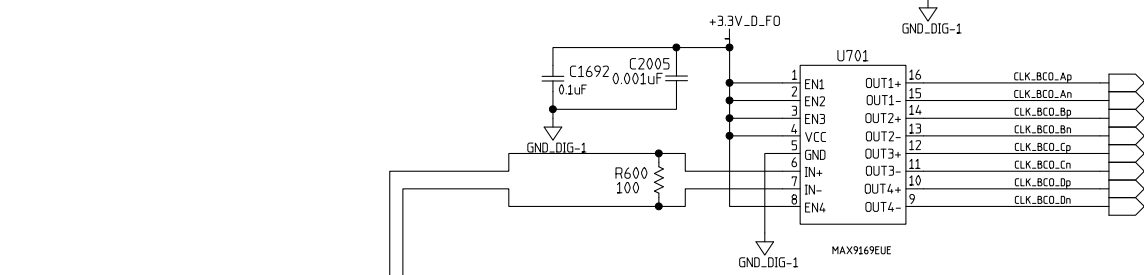
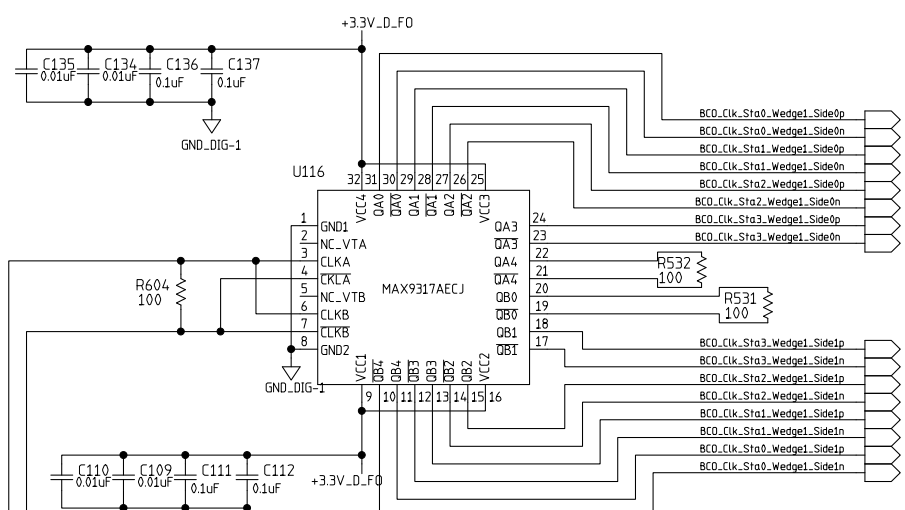
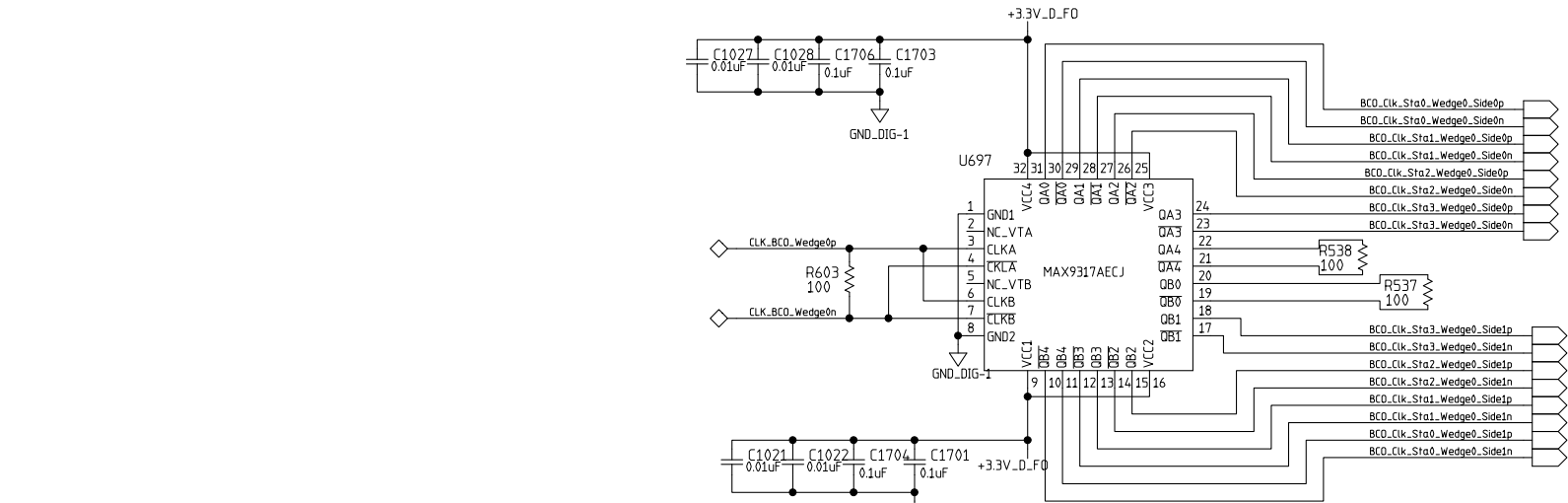
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE (P-25) FVTX ROC PROTOTYPE CALIB. PULSER Wedge 3			
						TOLERANCE (UNLESS OTHERWISE NOTED) X= ± ——— 0.XX= ± ——— ANGULAR ± ——— 0.X= ± ——— 0.XXX= ± ——— FINISH ± ———			
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N/A	1	126Y-267898		D 60					



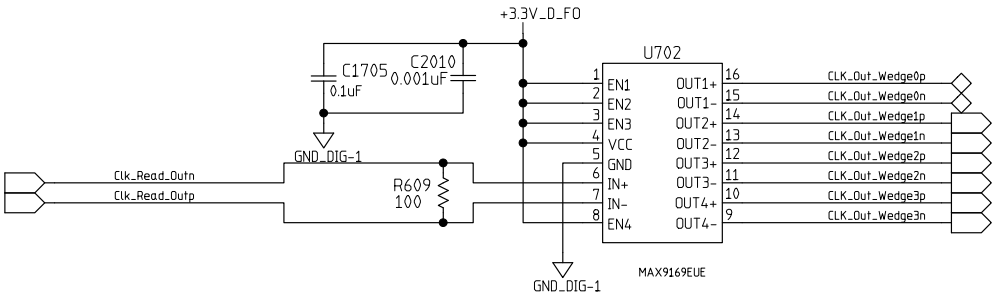
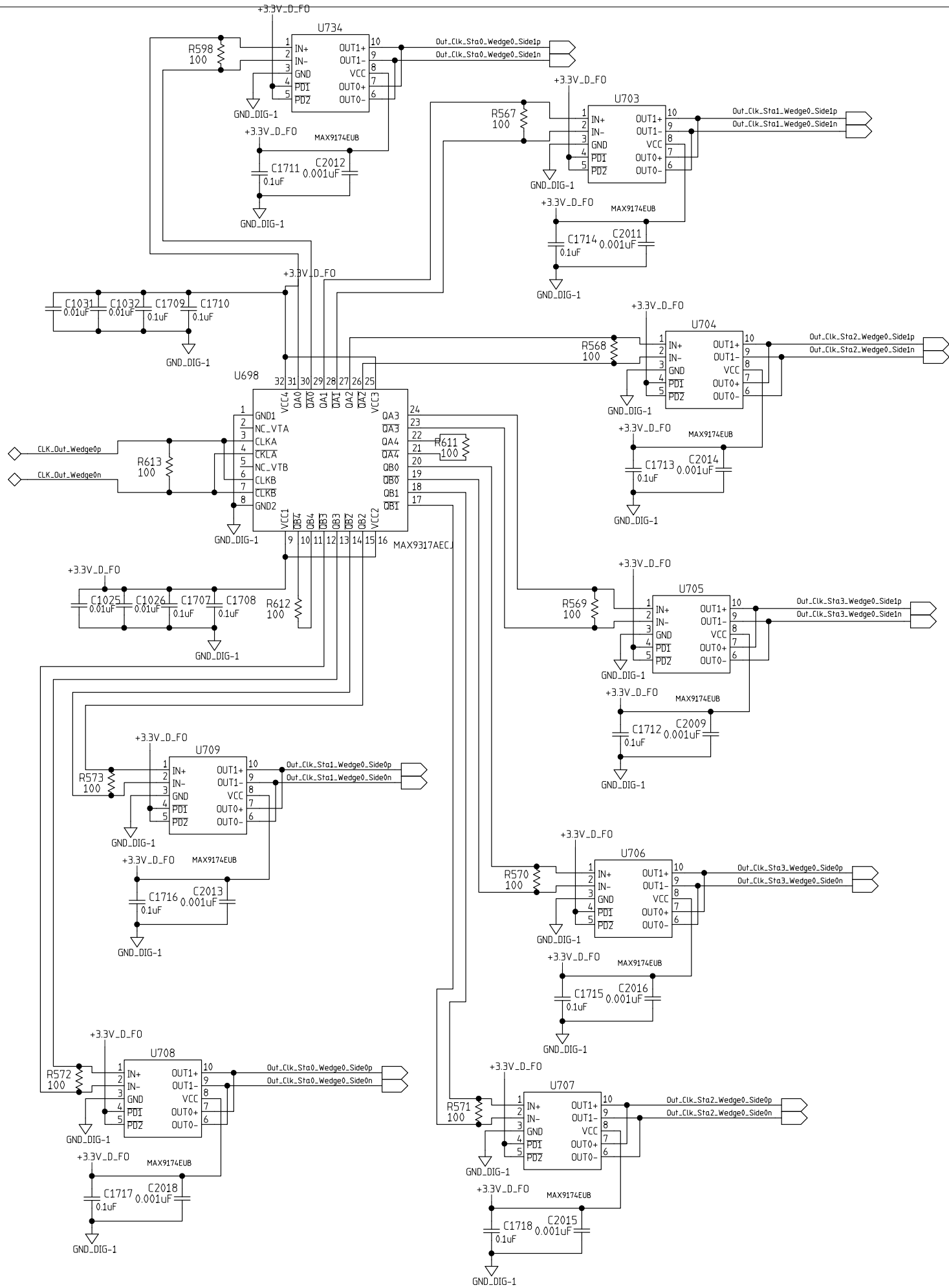
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REVISION LETTER		CLASS REVIEW		REVISIONS				DATE		CHANGE BY		CHECK BY		APPROVED BY					
LOS ALAMOS LOS ALAMOS NATIONAL LABORATORY LOS ALAMOS, NEW MEXICO 87545						CLASSIFICATION OF		DRAWING: U											
						PART: U		DRAWING: U											
						TITLE													
						(P-25)													
						FVTX ROC PROTOTYPE													
MENTOR 2005																			
		NAME		SIGNATURE		DATE		GROUP											
ORIGINATED																			
DESIGNED																			
DRAWN		S. CHACON		S. CHACON		APR 2009		AOT-IC											
CHECKED		M. PROKOP		M. PROKOP		APR 2009		AOT-RFE											
PROJ. ENGR.		M. PROKOP		M. PROKOP		APR 2009		AOT-RFE											
APPROVED																			
RELEASED																			
TOLERANCE (UNLESS OTHERWISE NOTED)																			
X= ± _____ 0.XX= ± _____ ANGULAR ± _____																			
0.X= ± _____ 0.XXX= ± _____ FINISH ± _____																			
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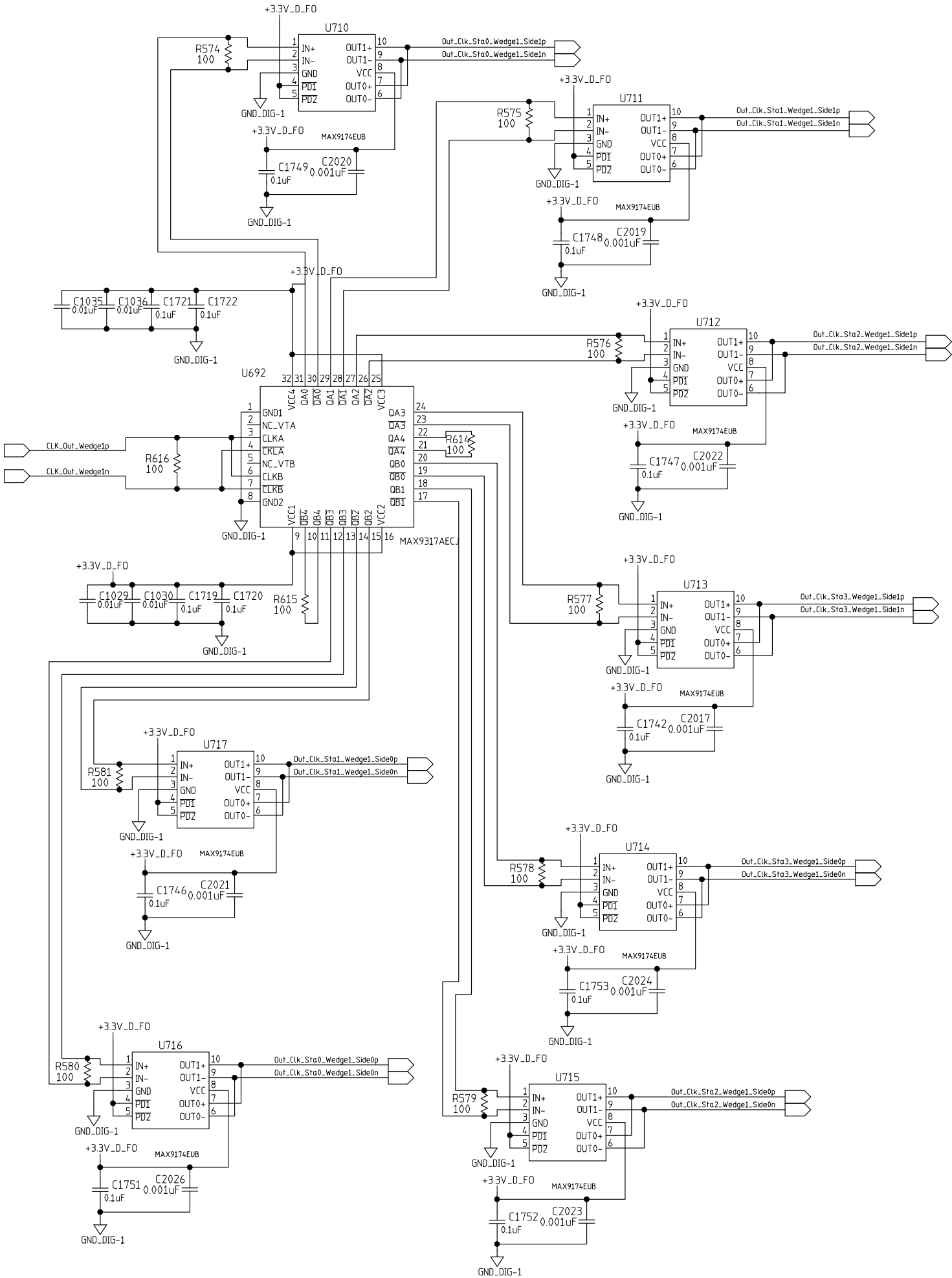
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY						
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						PART: U		DRAWING: U							
						TITLE (P-25) FVTX ROC PROTOTYPE									
						TOLERANCE (UNLESS OTHERWISE NOTED)						X= ± _____ 0.XX= ± _____ ANGULAR ± _____ 0.X= ± _____ 0.XXX= ± _____ FINISH ± _____			
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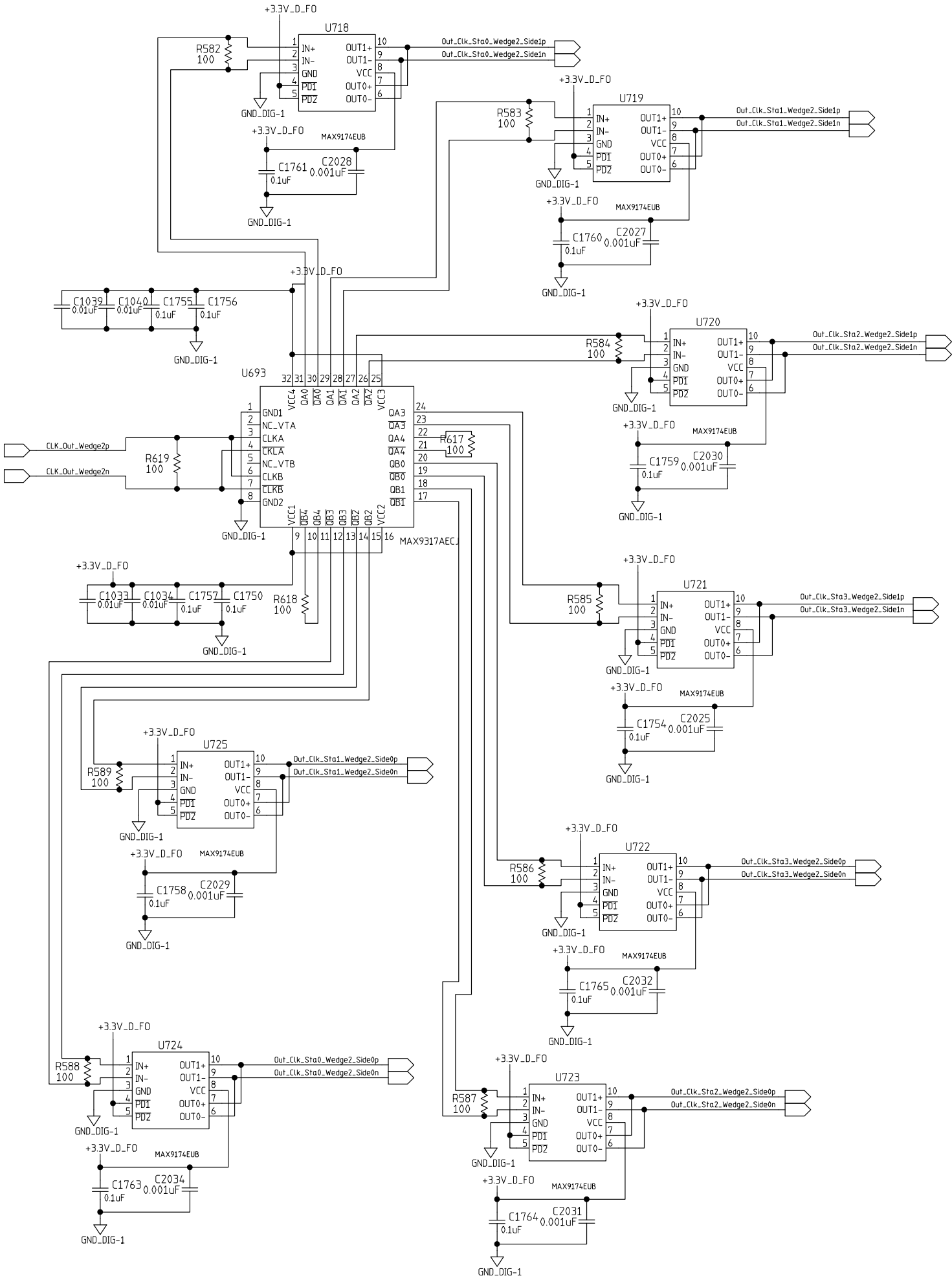
ORIGINAL ISSUE				REVISIONS				REVISIONS			
REVISION LETTER	CLASS	REVIEW	DATE	CHANGE BY	CHECK BY	APPROVED BY	DATE	CLASSIFICATION OF	DRAWING	U	U
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MENTOR 2005				CLASSIFICATION OF				DRAWING			
DESIGNED				PART: U				DRAWING			
DRAWN				TITLE				(P-25)			
CHECKED				FVTX				ROC PROTOTYPE			
PROJ. ENGR				BCO & Start Clocks Distribution				TOLERANCE (UNLESS OTHERWISE NOTED)			
APPROVED				X= ±				0.XX= ±			
RELEASED				0.X= ±				0.XXX= ±			
SCALE				NO SHEETS				DRAWING NO.			
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SHEET				D				63			



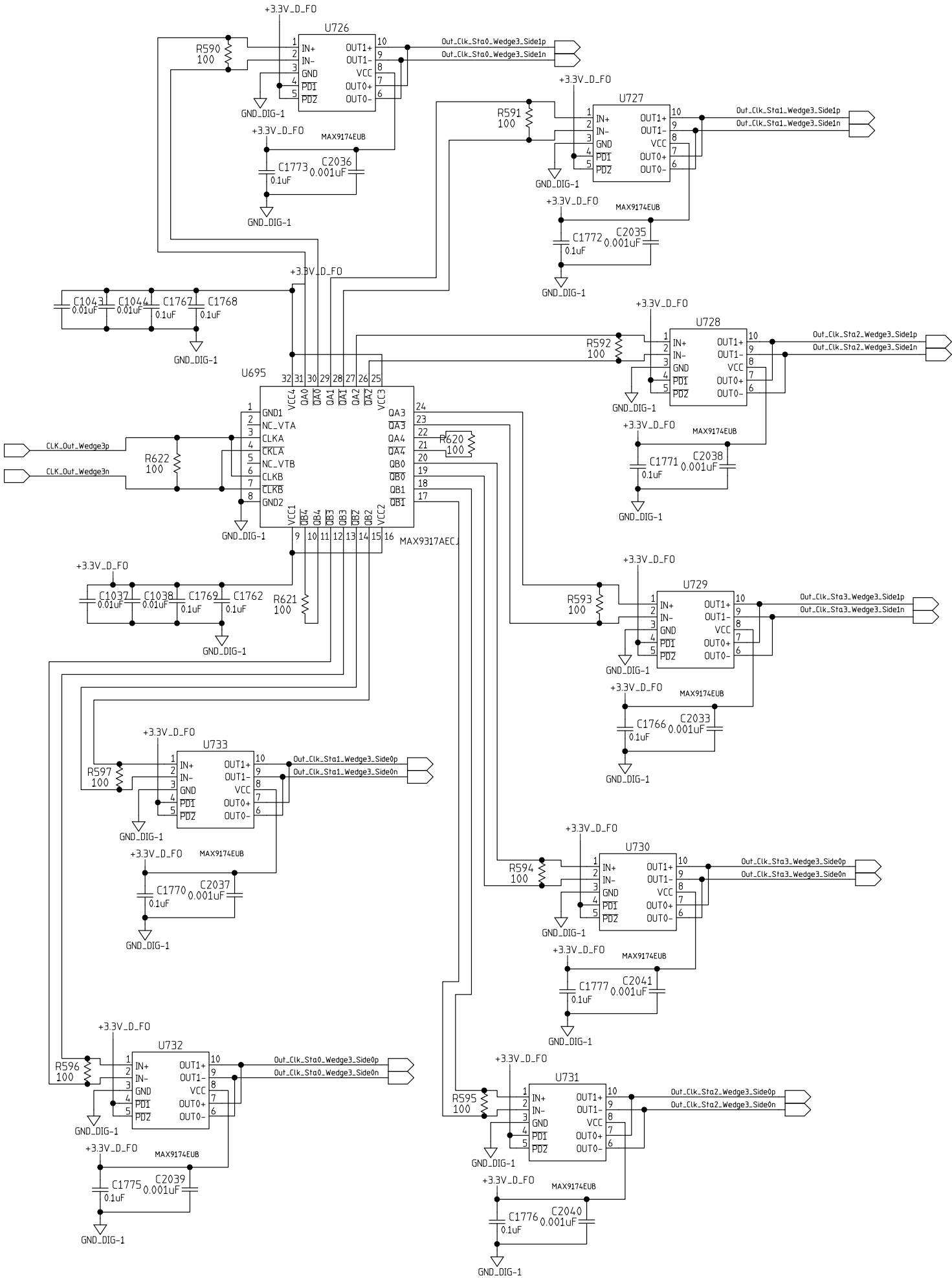
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY					
LOS ALAMOS LOS ALAMOS NATIONAL LABORATORY LOS ALAMOS, NEW MEXICO 87545 MENTOR 2005						CLASSIFICATION OF		DRAWING: U						
						PART: U		DRAWING: U						
						TITLE (P-25) FVTX ROC PROTOTYPE Output Clock Distribution Wedge 0								
										TOLERANCE (UNLESS OTHERWISE NOTED)				
										X= ± _____		0.XX= ± _____		ANGULAR ± _____
										0.X= ± _____		0.XXX= ± _____		FINISH ± _____



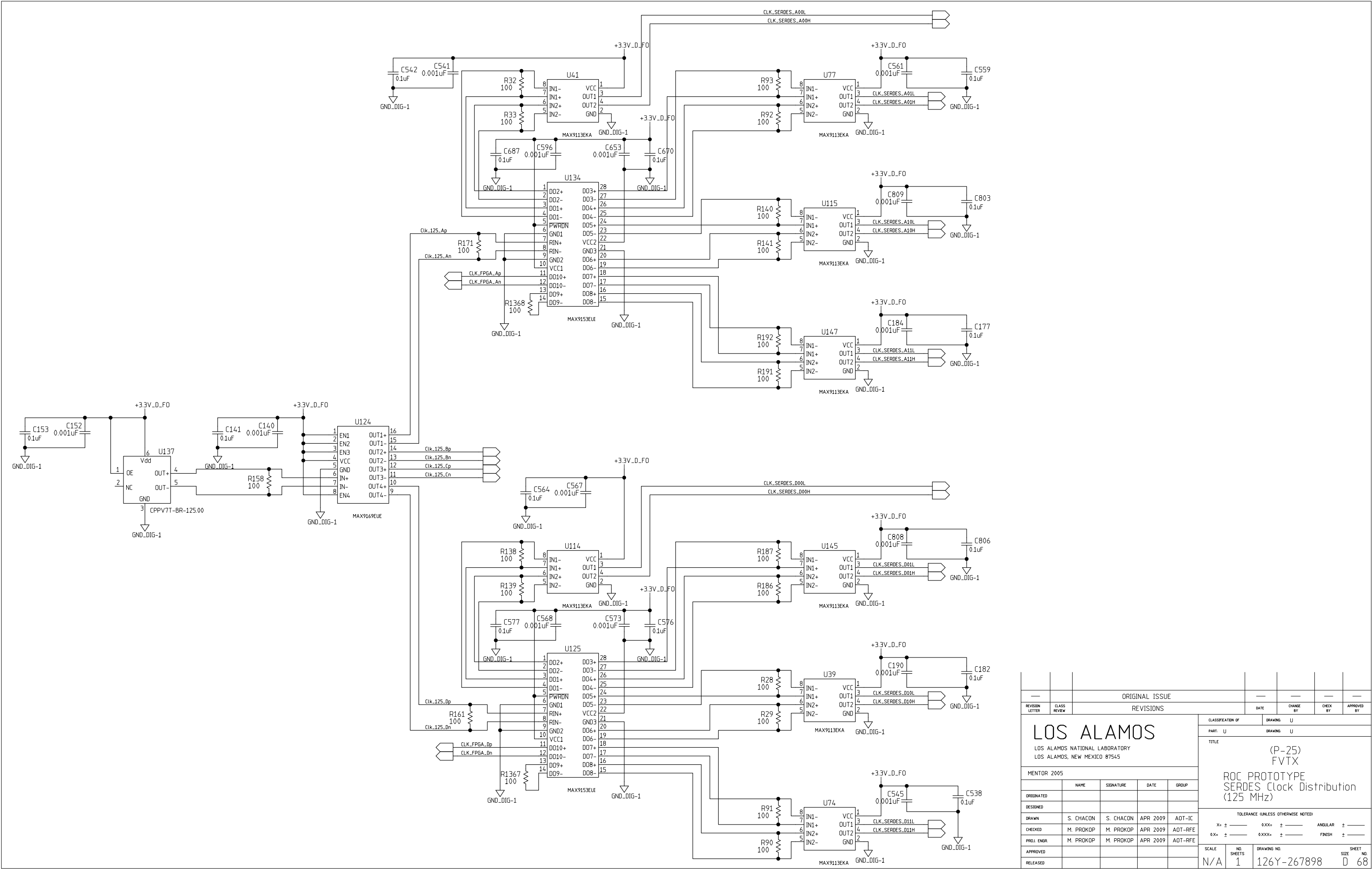
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE (P-25) FVTX ROC PROTOTYPE Output Clock Distribution Wedge 1			
MENTOR 2005						TOLERANCE (UNLESS OTHERWISE NOTED)			
ORIGINATED	NAME	SIGNATURE	DATE	GROUP					
DESIGNED									
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC					
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
APPROVED									
RELEASED									
SCALE						NO. SHEETS	DRAWING NO.		SHEET NO.
N/A						1	126Y-267898		SIZE D 65



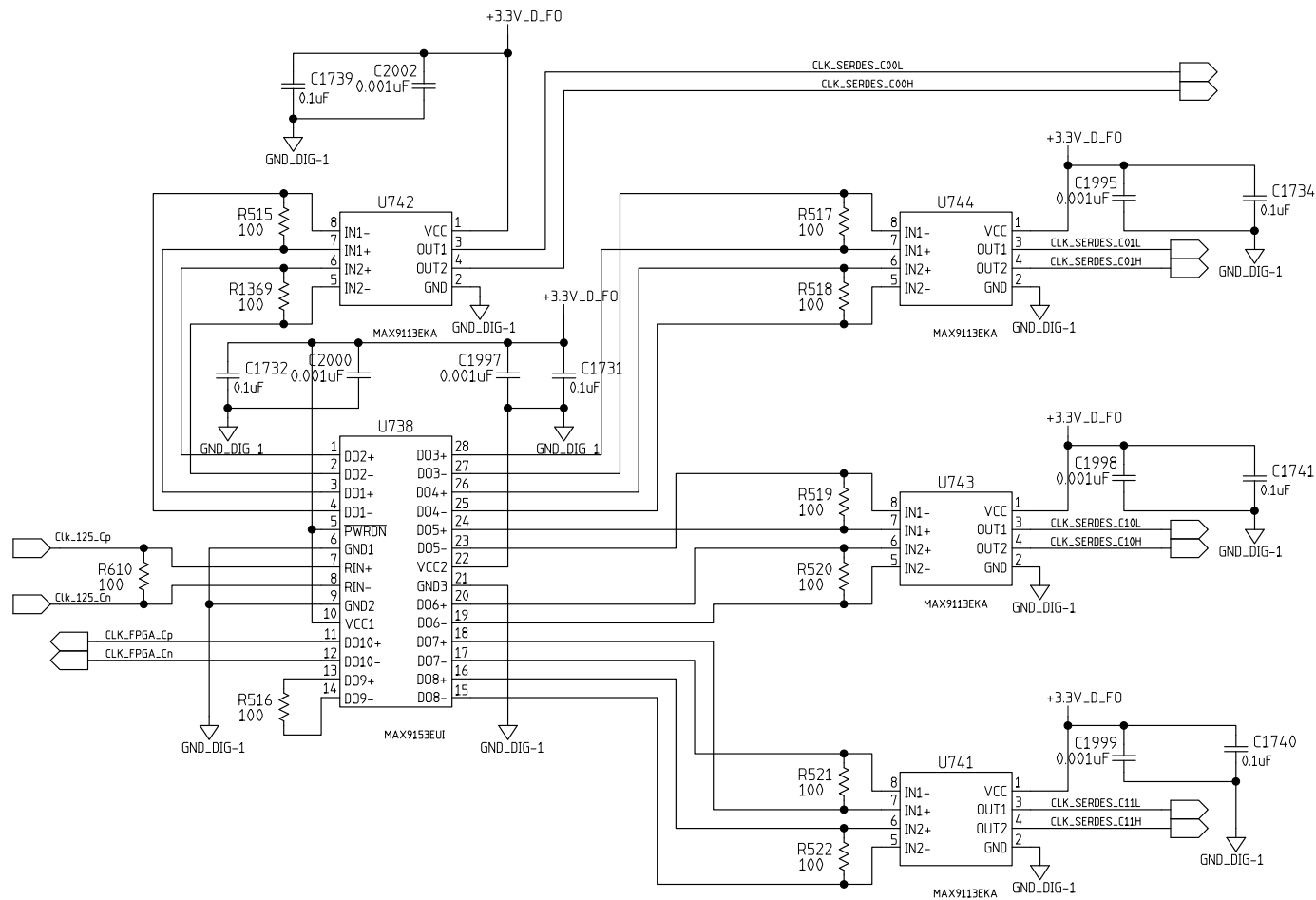
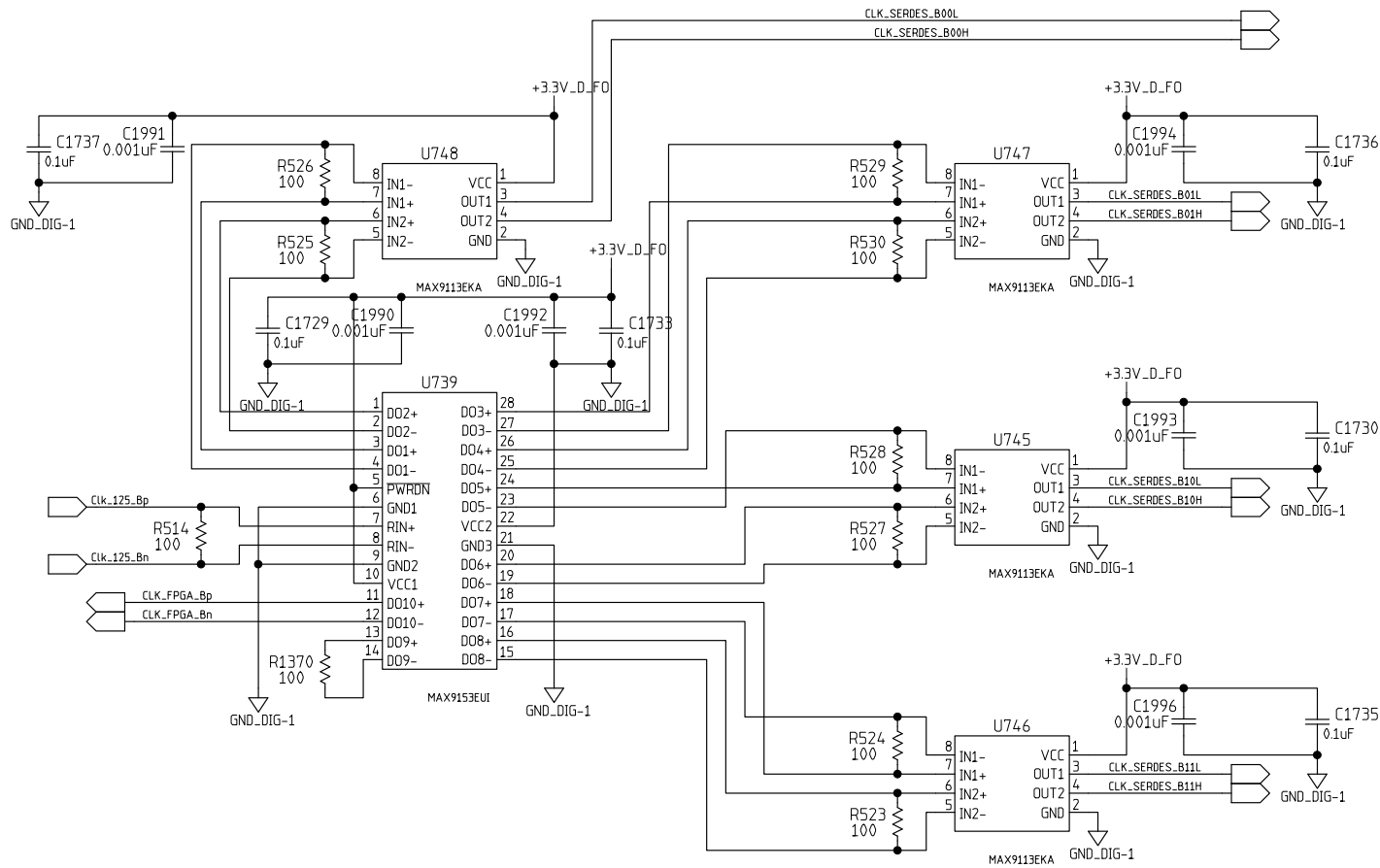
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY						
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						PART: U		DRAWING: U							
						TITLE (P-25) FVTX ROC PROTOTYPE Output Clock Distribution Wedge 2									
						MENTOR 2005									
						ORIGINATED	NAME	SIGNATURE	DATE	GROUP					
						DESIGNED									
						DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC					
						CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
						PROJ. ENGR.	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE					
						APPROVED									
RELEASED															
						TOLERANCE (UNLESS OTHERWISE NOTED)									
						X= ±		0.XX= ±	ANGULAR ±						
						0.X= ±		0.XXX= ±	FINISH ±						
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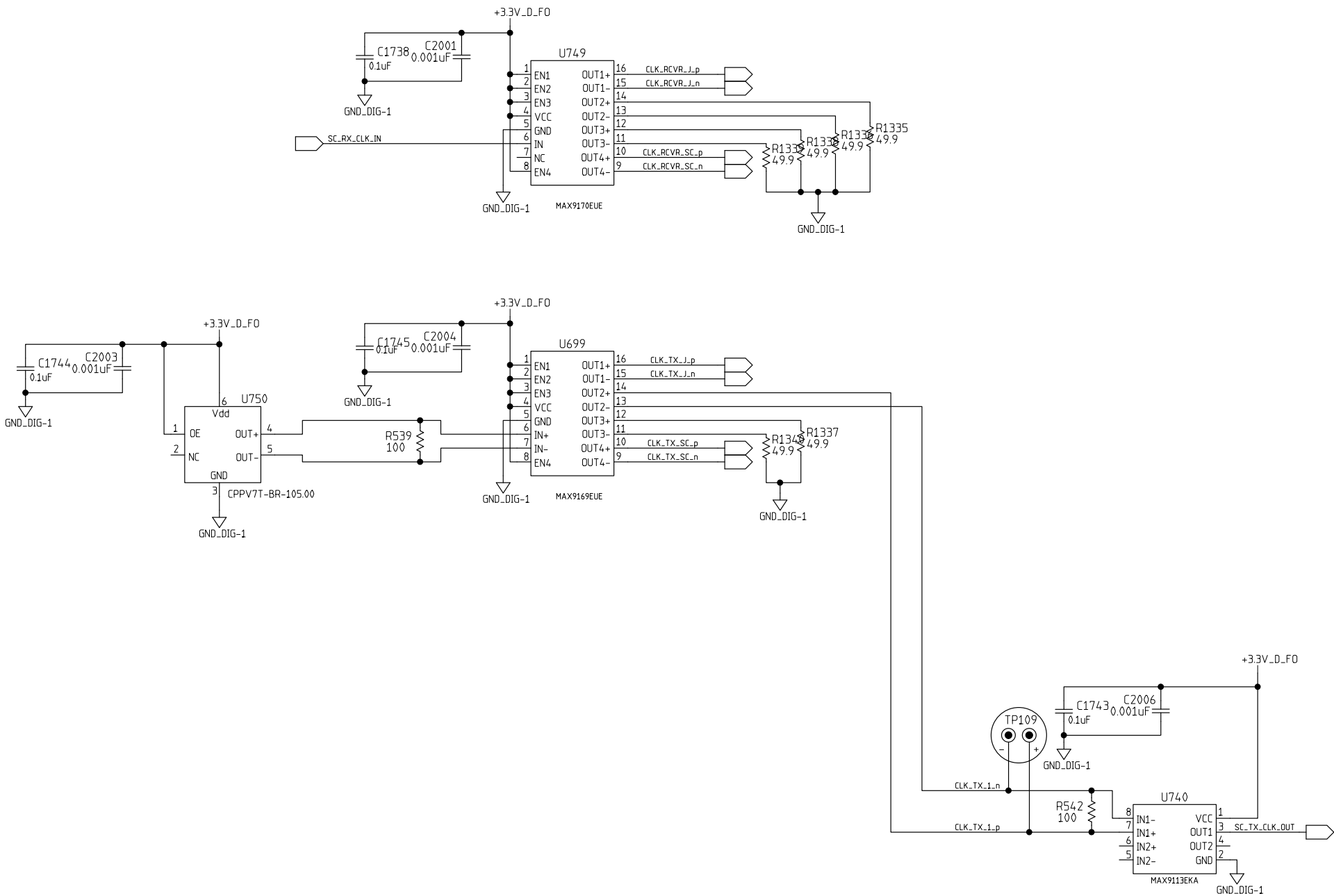
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY						
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						PART: U		DRAWING: U							
						TITLE									
						(P-25) FVTX ROC PROTOTYPE Output Clock Distribution Wedge 3									
						TOLERANCE (UNLESS OTHERWISE NOTED)									
						X= ± 0.XX= ± ANGULAR ± 0.X= ± 0.XXX= ± FINISH ±									
						SCALE		NO. SHEETS		DRAWING NO.				SHEET NO.	
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						RELEASED									



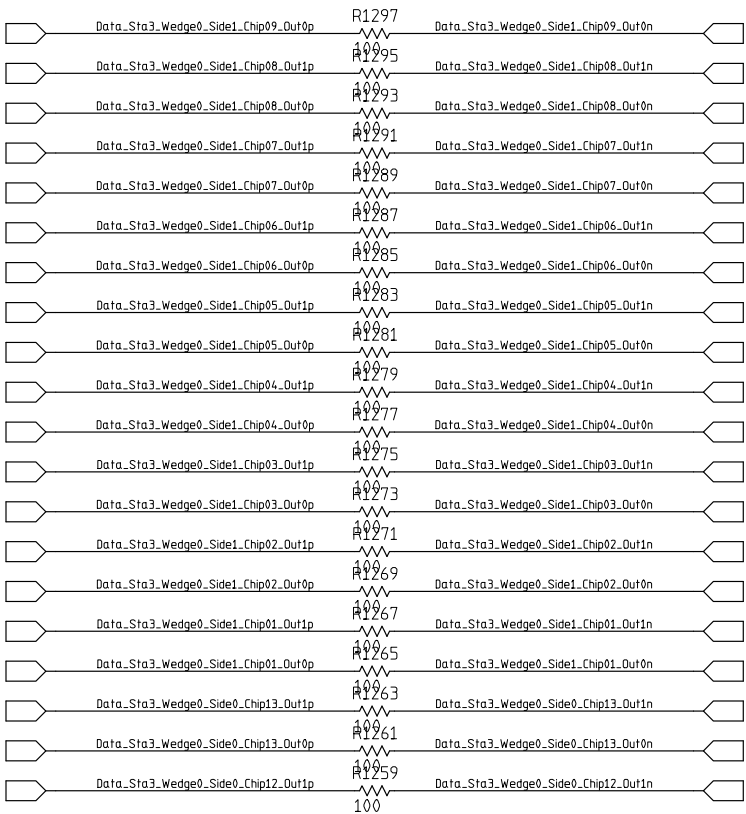
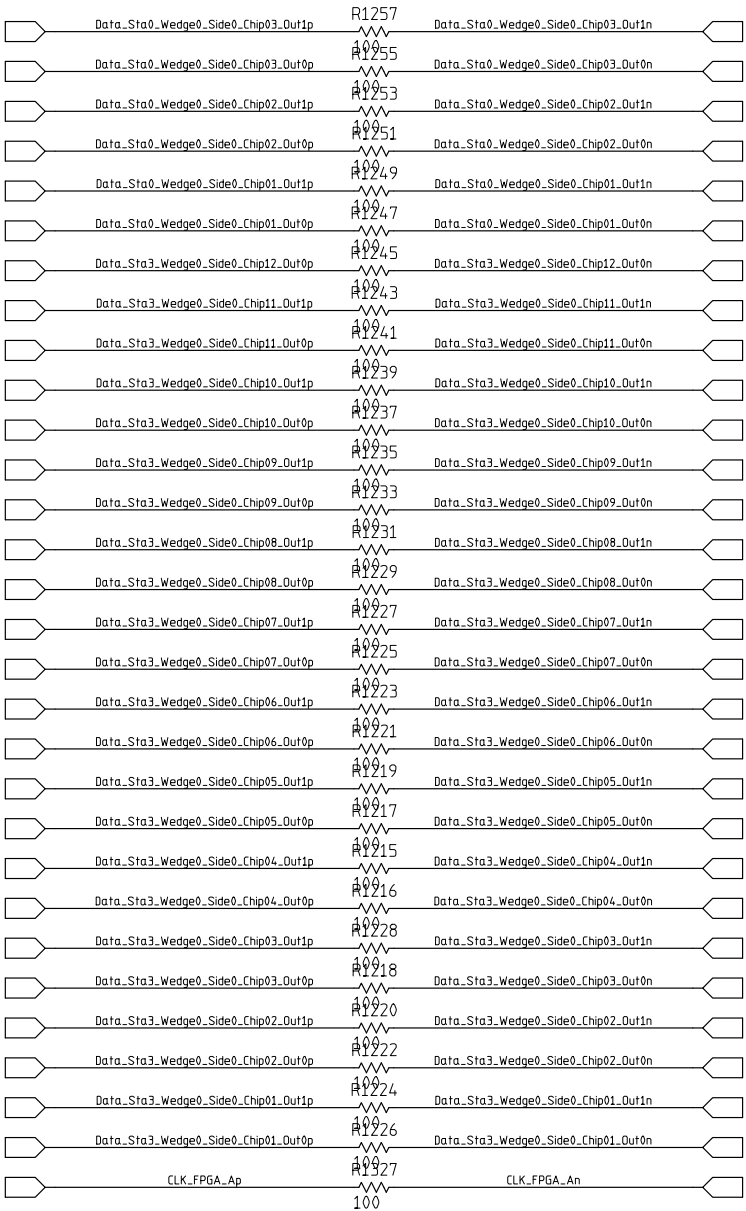
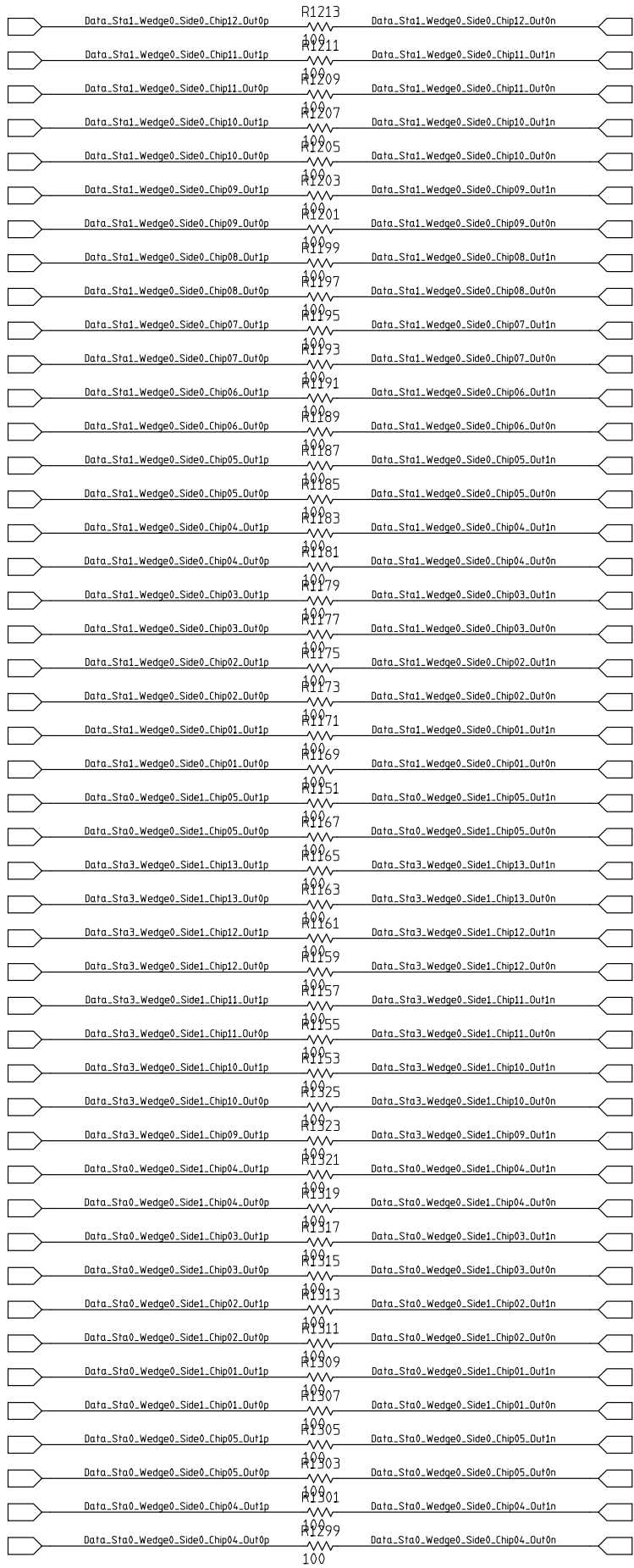
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY				
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						PART: U		DRAWING: U					
						TITLE		(P-25) FVTX					
						ROC PROTOTYPE SERDES Clock Distribution (125 MHz)							
						TOLERANCE (UNLESS OTHERWISE NOTED)							
						X= ±		0.XX= ±		ANGULAR ±			
						0.X= ±		0.XXX= ±		FINISH ±			
						SCALE		NO. SHEETS		DRAWING NO.		SIZE	
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						RELEASED							



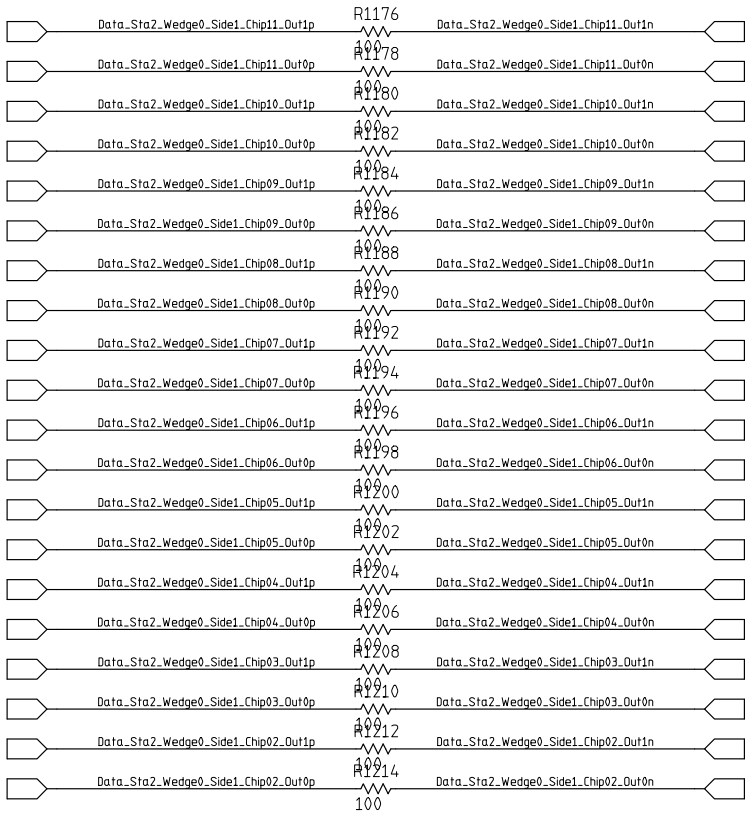
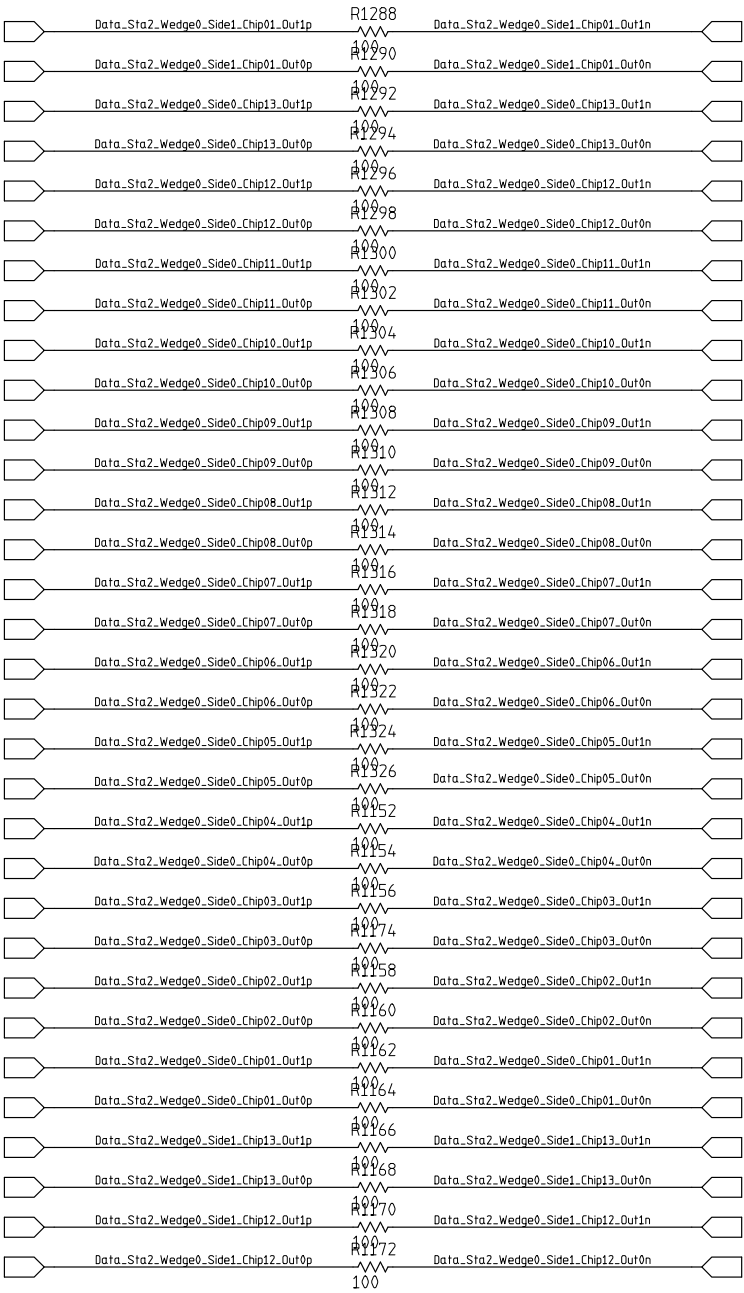
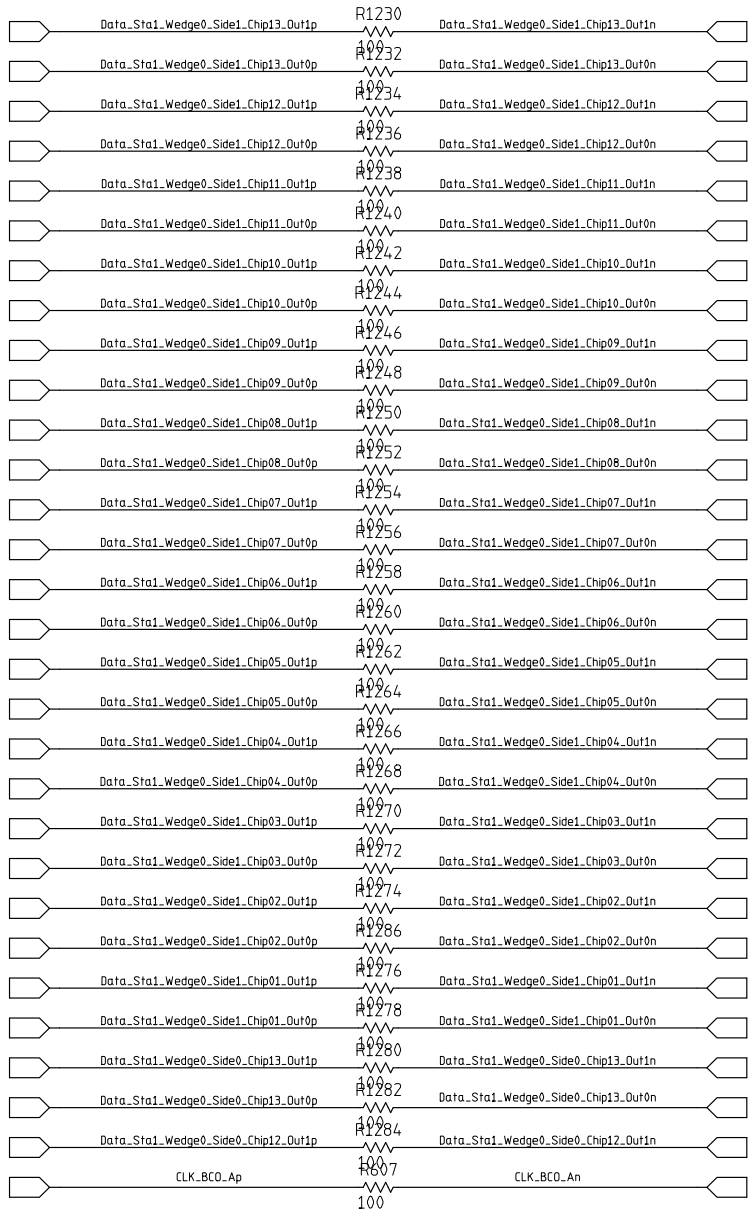
ORIGINAL ISSUE		DATE	CHANGE BY	CHECK BY	APPROVED BY
REVISION LETTER	CLASS REVIEW	REVISIONS			
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LOS ALAMOS NATIONAL LABORATORY		PART: U		DRAWING: U	
LOS ALAMOS, NEW MEXICO 87545		TITLE		(P-25) FVTX	
MENTOR 2005		ROC PROTOTYPE		SERDES Clock Distribution	
		(125 MHz)			
TOLERANCE (UNLESS OTHERWISE NOTED)		X± ±		ANGULAR ±	
DRAWN		S. CHACON		APR 2009	
CHECKED		M. PROKOP		APR 2009	
PROJ. ENGR.		M. PROKOP		APR 2009	
APPROVED					
RELEASED					
SCALE		NO. SHEETS		DRAWING NO.	
N/A		1		126Y-267898	
				SIZE	
				D 69	



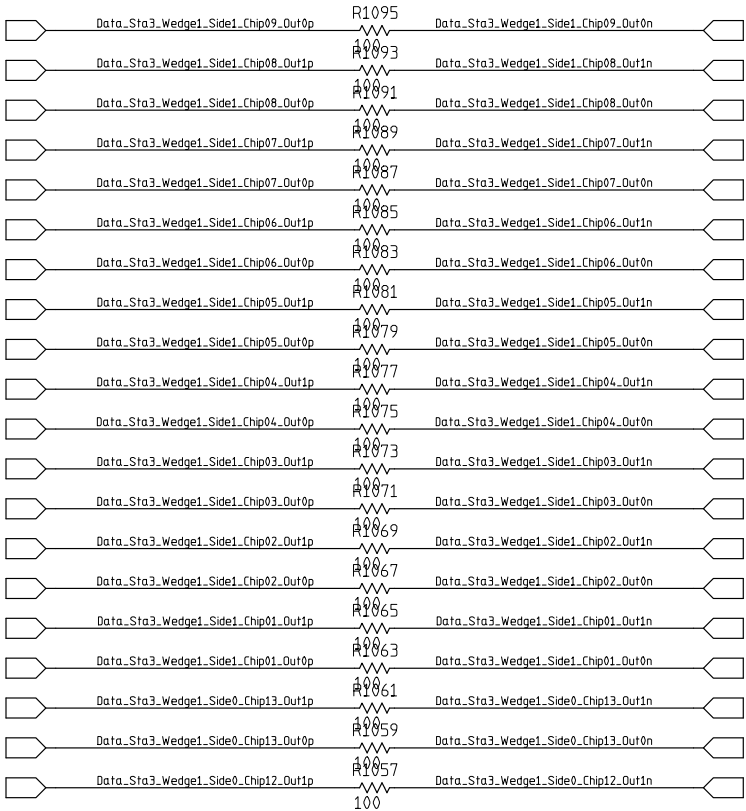
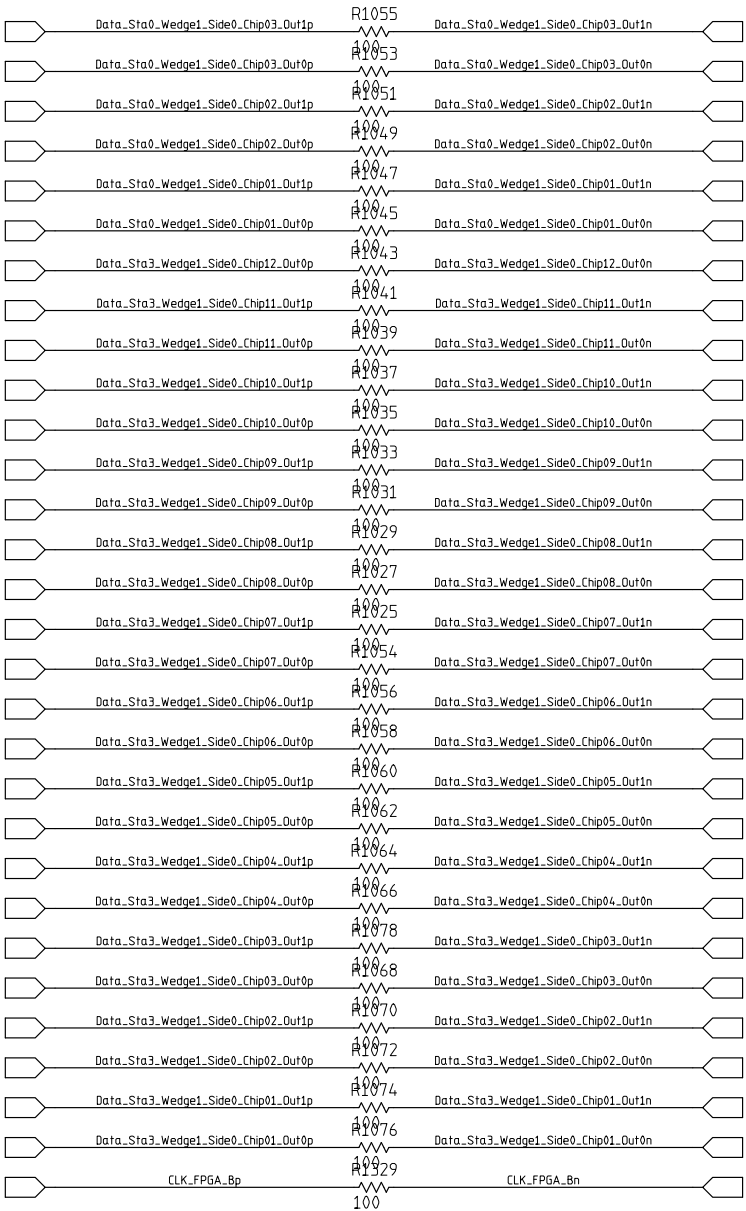
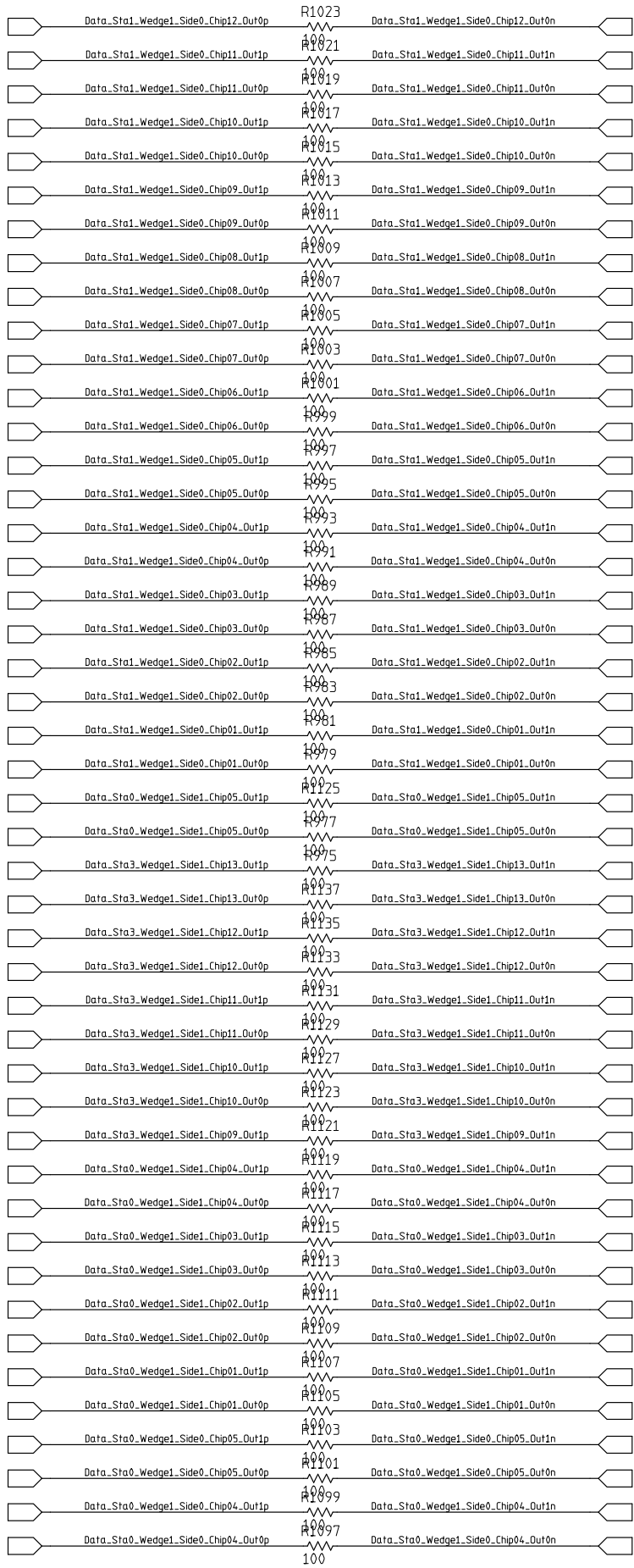
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY		
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						PART: U		DRAWING: U			
						TITLE					
						(P-25) FVTX					
						ROC PROTOTYPE Slow Controls/JTAG (105 MHz) SERDES Clock Distribution					
						TOLERANCE (UNLESS OTHERWISE NOTED)					
						X= ± _____ 0.XX= ± _____ ANGULAR ± _____ 0.X= ± _____ 0.XXX= ± _____ FINISH ± _____					
						SCALE	NO. SHEETS	DRAWING NO.		SIZE	SHEET NO.
						N/A	1	126Y-267898		D	70
ORIGINATED		NAME	SIGNATURE	DATE	GROUP						
DESIGNED											
DRAWN		S. CHACON	S. CHACON	APR 2009	AOT-IC						
CHECKED		M. PROKOP	M. PROKOP	APR 2009	AOT-RFE						
PROJ. ENGR.		M. PROKOP	M. PROKOP	APR 2009	AOT-RFE						
APPROVED											
RELEASED											



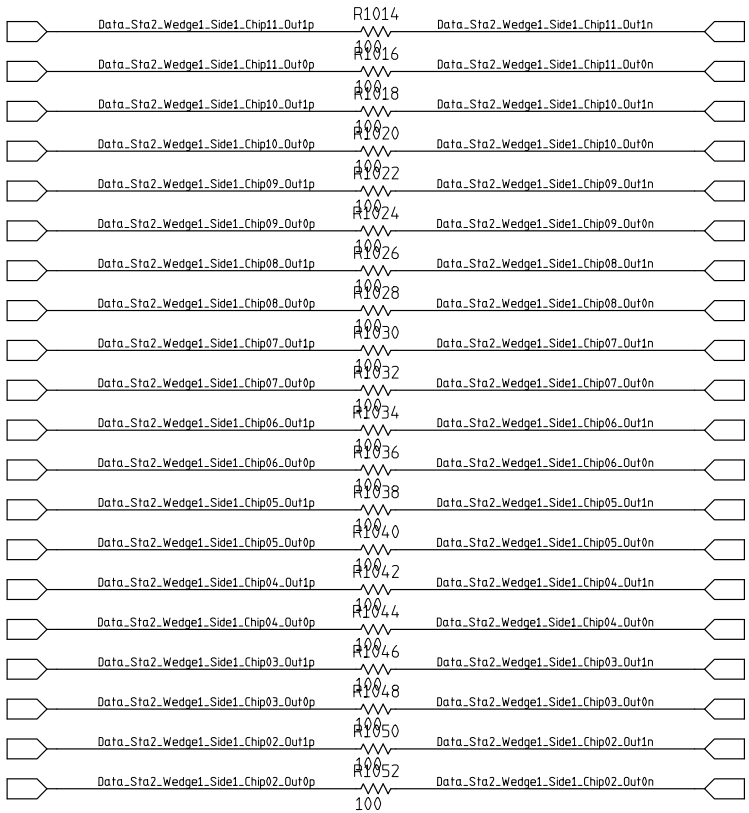
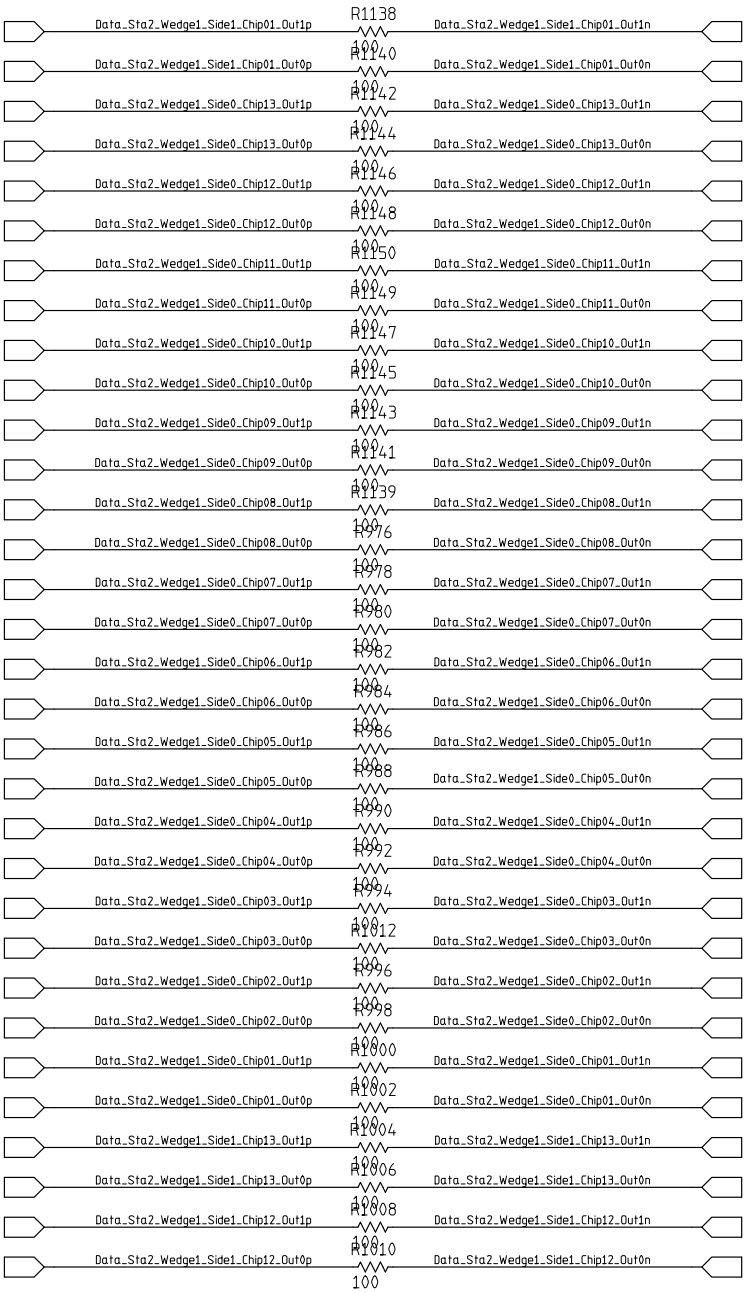
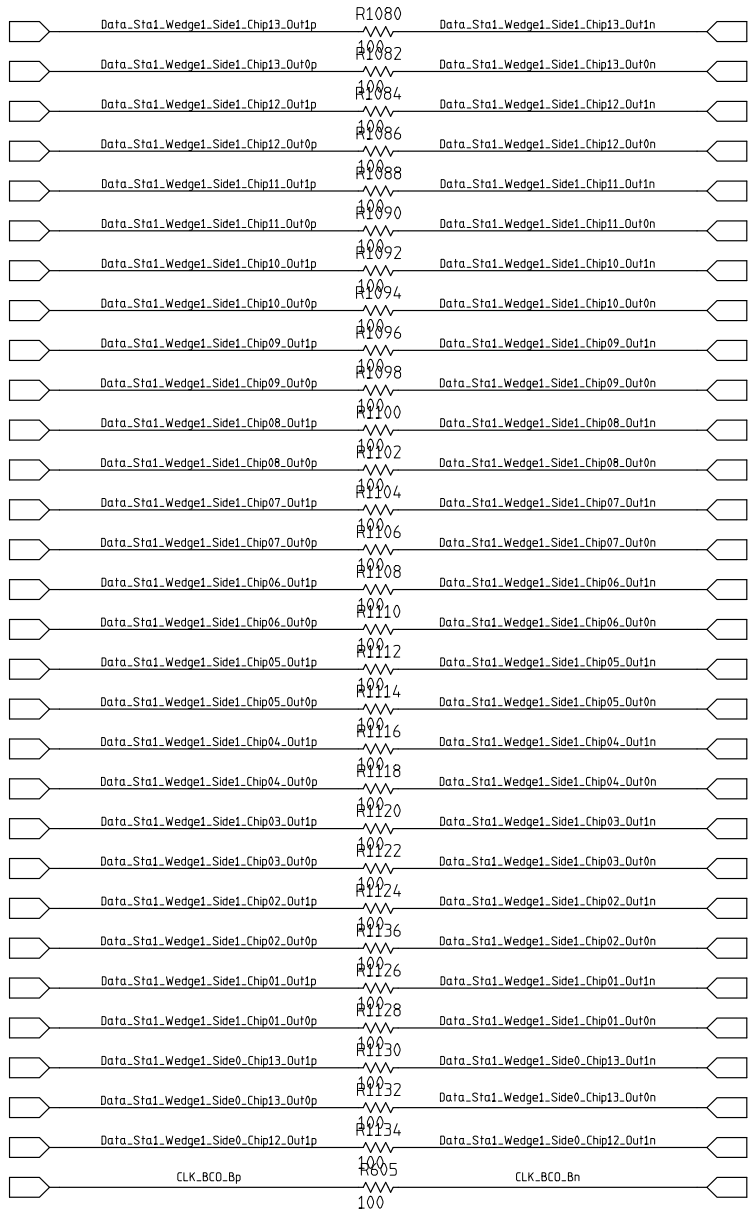
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY			
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						PART: U		DRAWING: U				
						TITLE						
						(P-25)						
						FVTX						
						ROC PROTOTYPE						
MENTOR 2005						LVDS Input Terminations						
	NAME	SIGNATURE	DATE	GROUP	FPGA A							
ORIGINATED					TOLERANCE (UNLESS OTHERWISE NOTED)							
DESIGNED												
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC	X= ± _____ 0.XX= ± _____ ANGULAR ± _____							
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	0.X= ± _____ 0.XXX= ± _____ FINISH ± _____							
PROJ. ENGR	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE								
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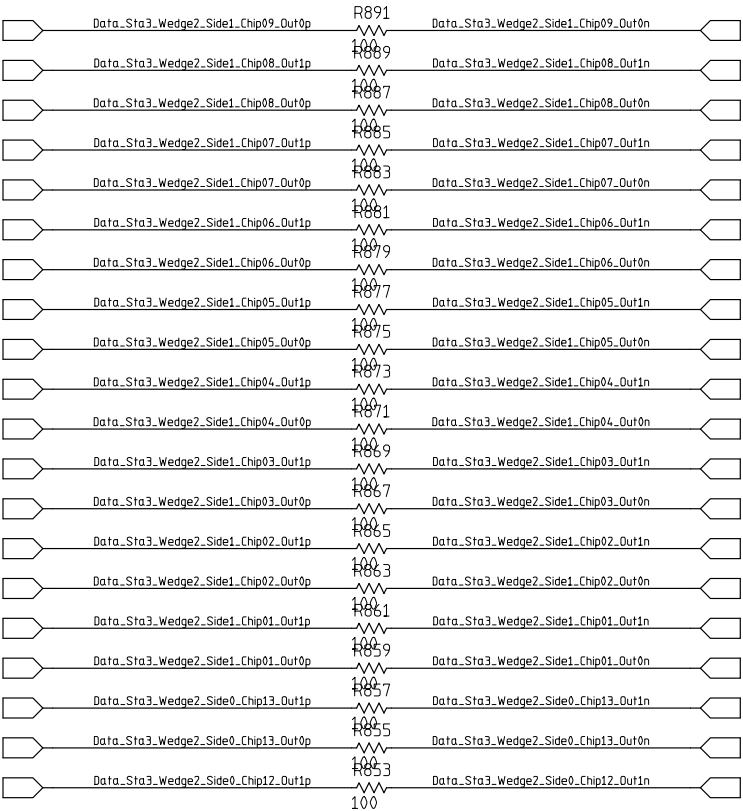
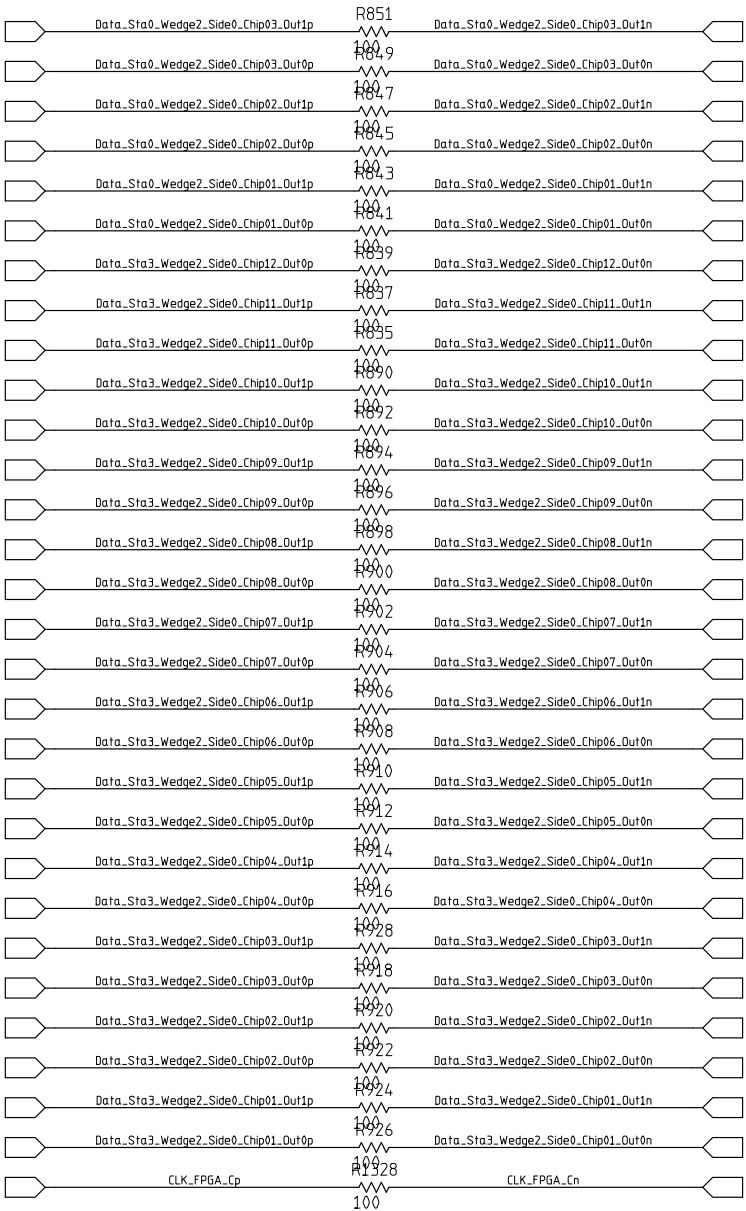
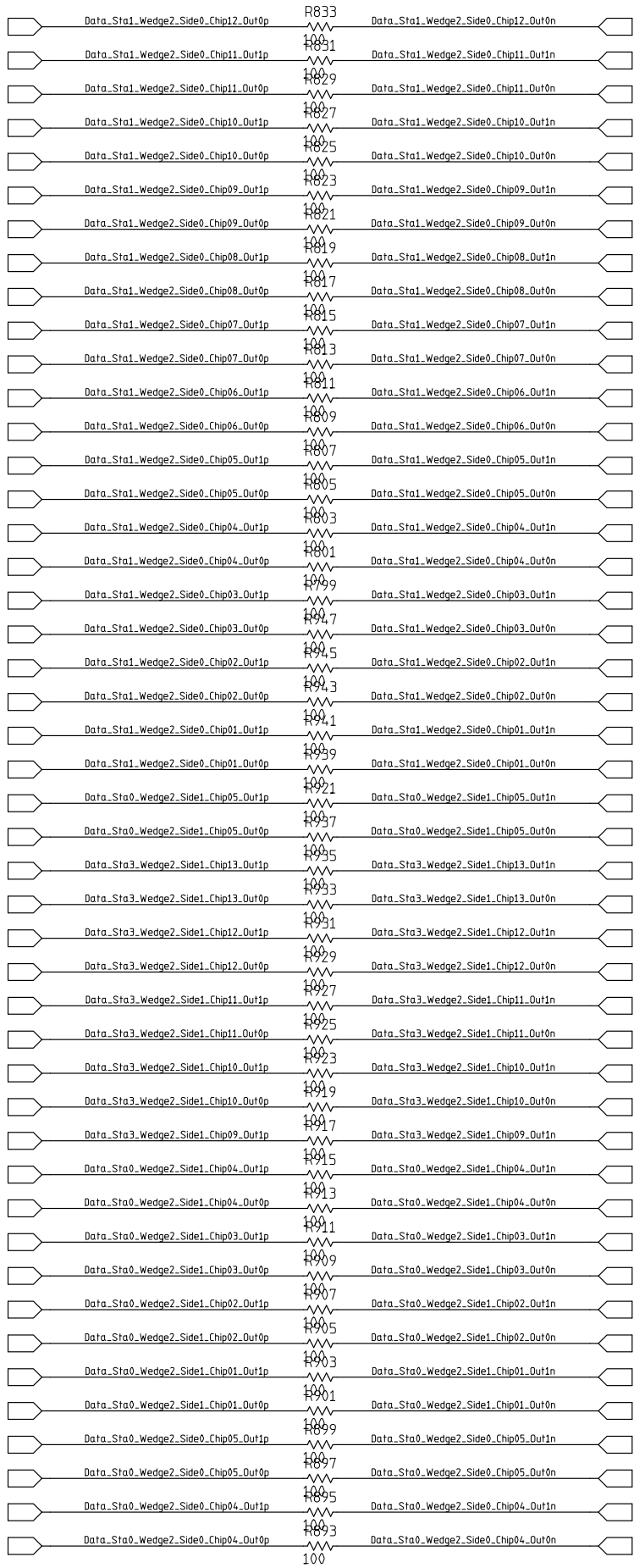
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE			
						(P-25)			
						FVTX			
						ROC PROTOTYPE			
MENTOR 2005						LVDS Input Terminations			
	NAME	SIGNATURE	DATE	GROUP	FPGA A				
ORIGINATED					TOLERANCE (UNLESS OTHERWISE NOTED)				
DESIGNED					X= ± _____ 0.XX= ± _____ ANGULAR ± _____				
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC	0.X= ± _____ 0.XXX= ± _____ FINISH ± _____				
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	SCALE				
PROJ. ENGR	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	NO. SHEETS				
APPROVED					DRAWING NO.				
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					126Y-267898				
					D 72				



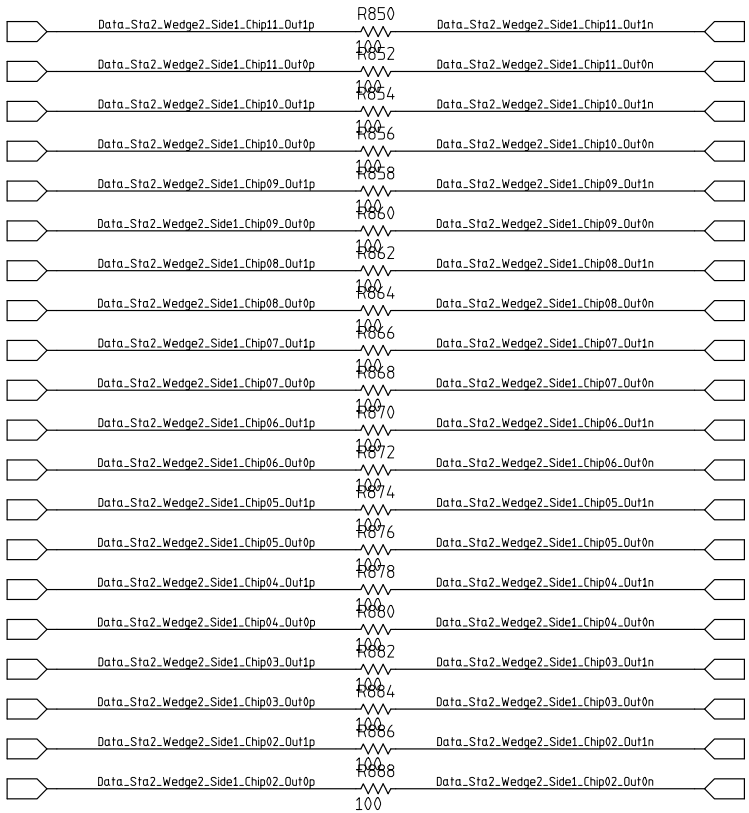
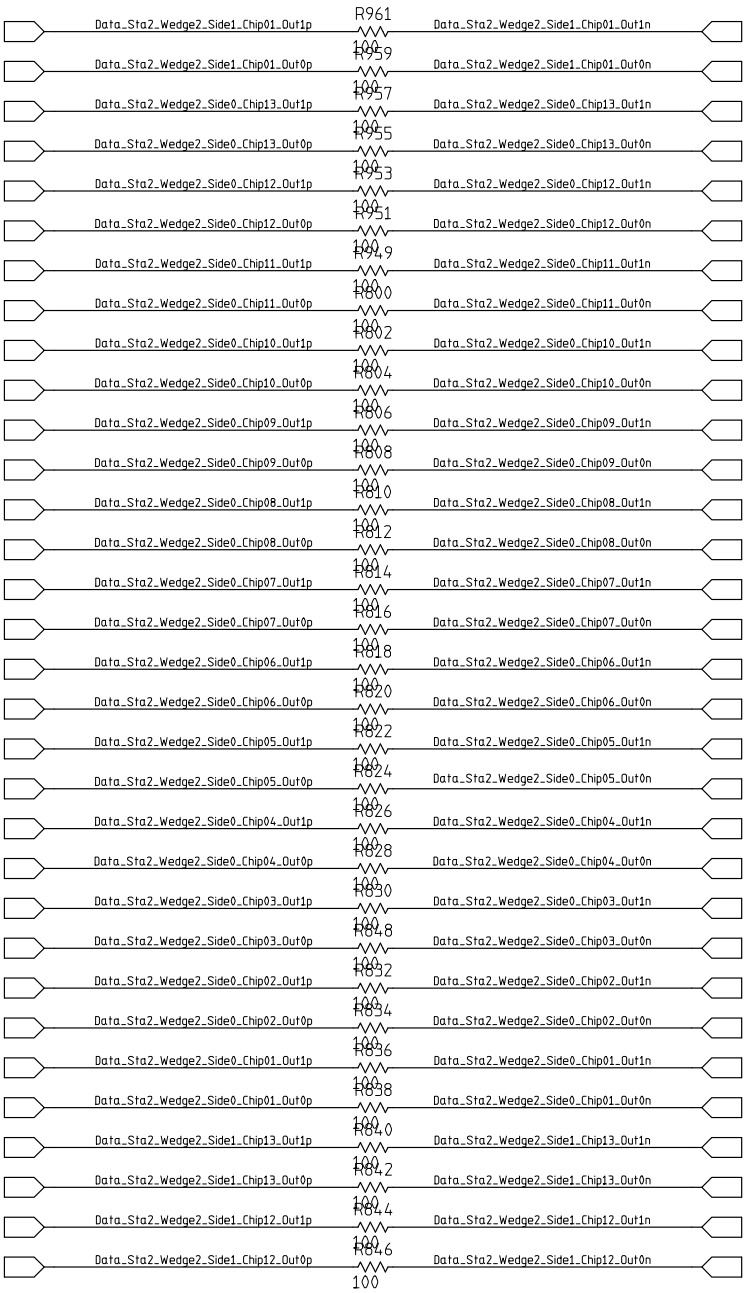
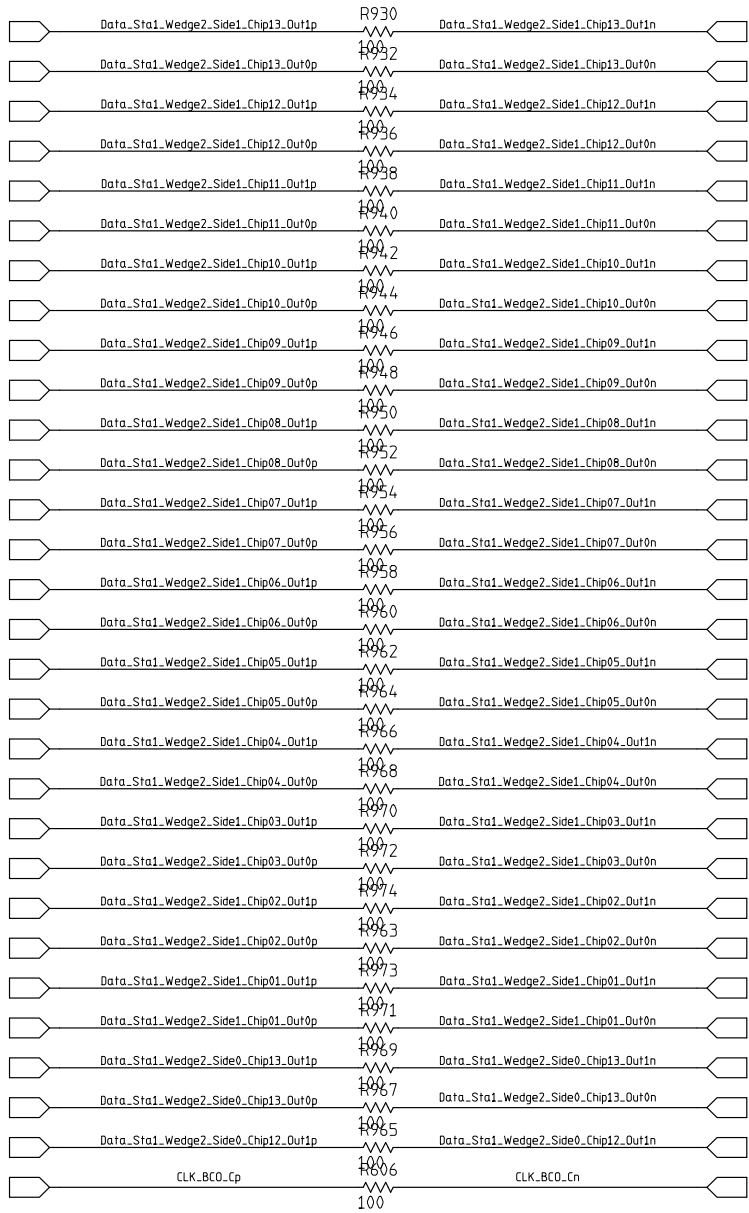
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY	
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						PART: U		DRAWING: U		
						TITLE				
						(P-25)				
						FVTX				
						ROC PROTOTYPE				
MENTOR 2005						LVDS Input Terminations				
	NAME	SIGNATURE	DATE	GROUP	FPGA B					
ORIGINATED					TOLERANCE (UNLESS OTHERWISE NOTED)					
DESIGNED										
DRAWN	S. CHACON	S. CHACON	APR 2009	AOT-IC						
CHECKED	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	X= ± _____ 0.XX= ± _____ ANGULAR ± _____					
PROJ. ENGR	M. PROKOP	M. PROKOP	APR 2009	AOT-RFE	0.X= ± _____ 0.XXX= ± _____ FINISH ± _____					
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RELEASED					N/A	1	126Y-267898		D	73



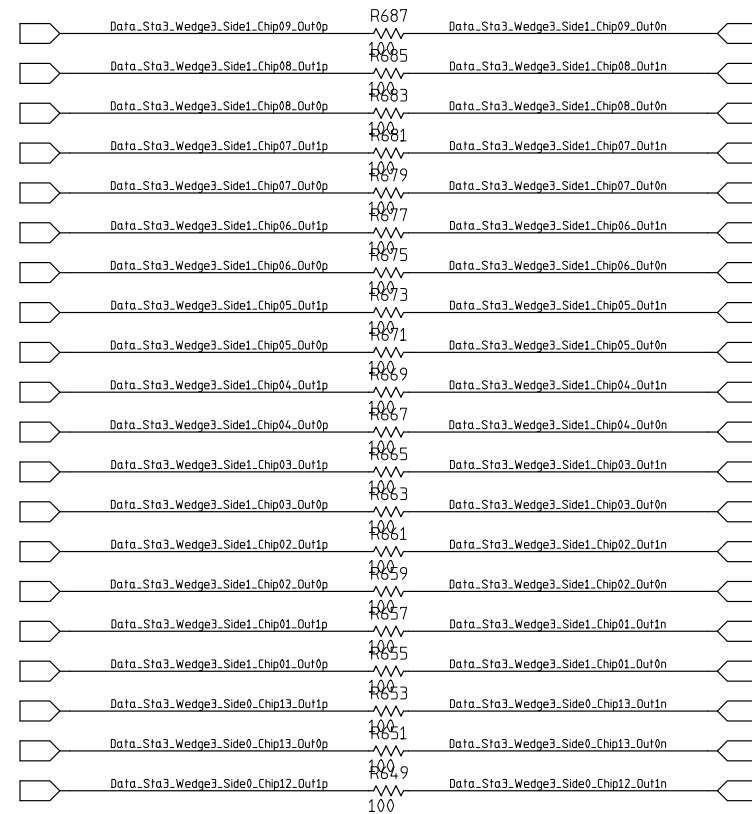
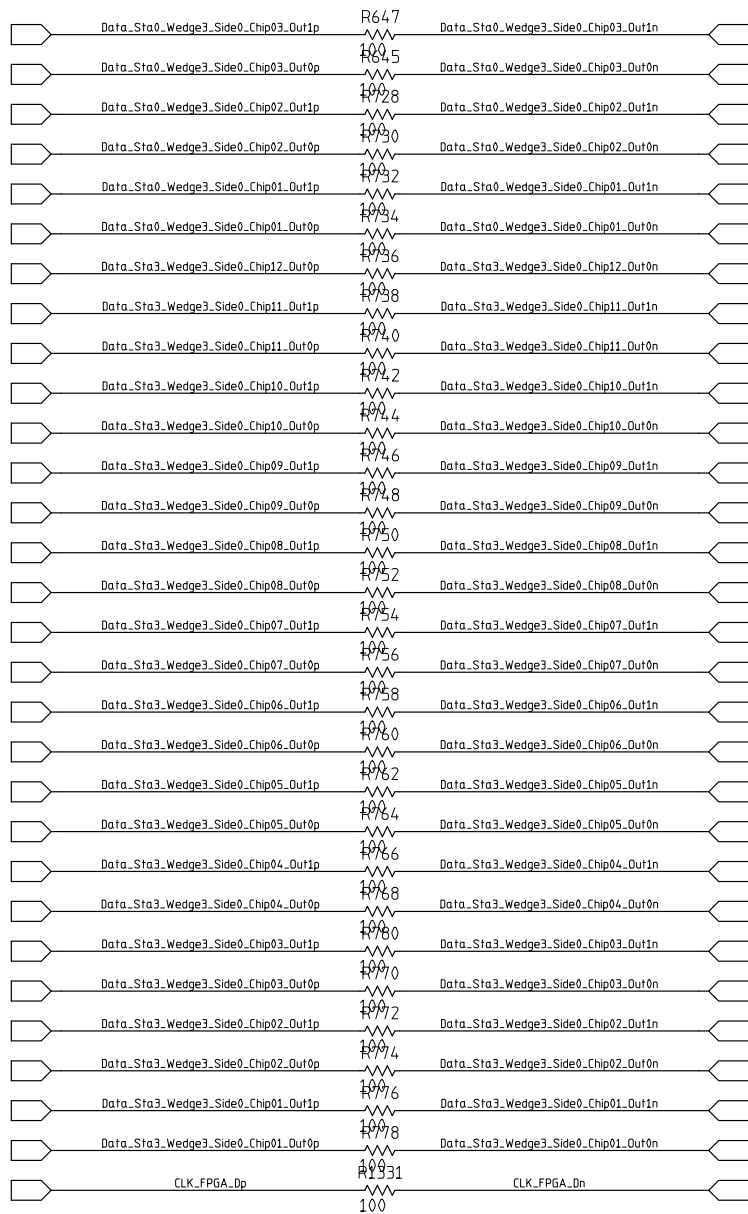
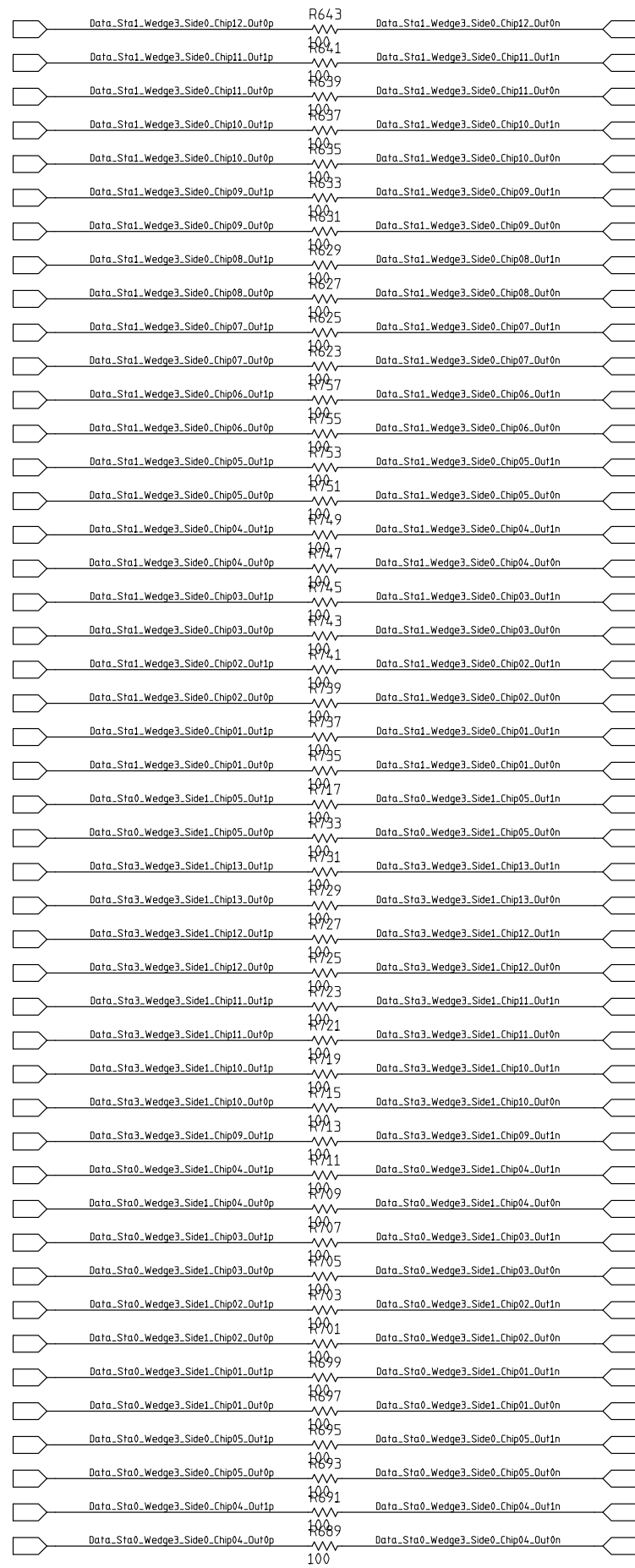
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY
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						PART: U		DRAWING: U	
						TITLE (P-25) FVTX ROC PROTOTYPE LVDS Input Terminations FPGA B			
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N/A	1	126Y-267898			D	74			



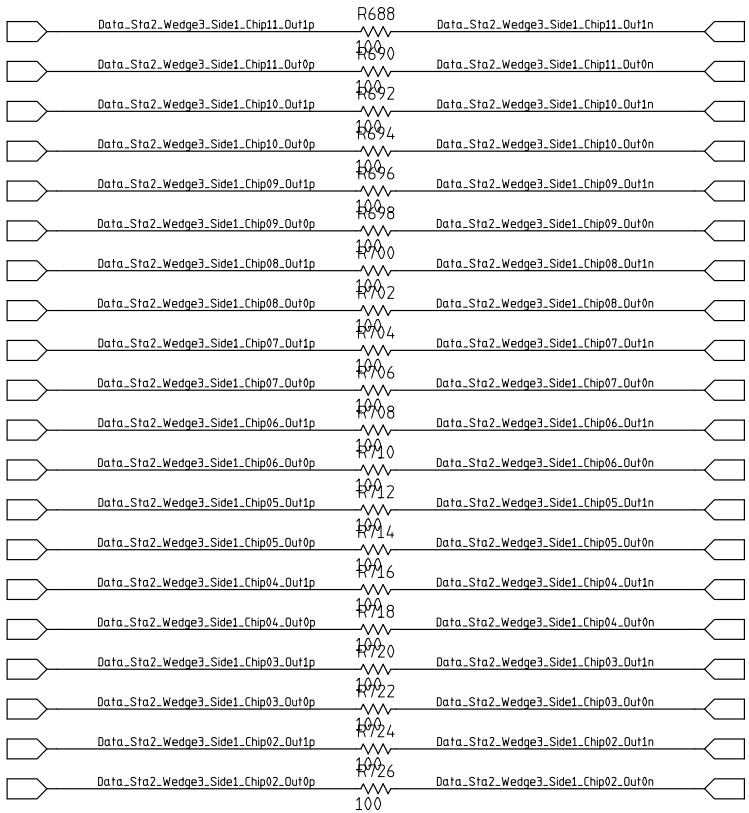
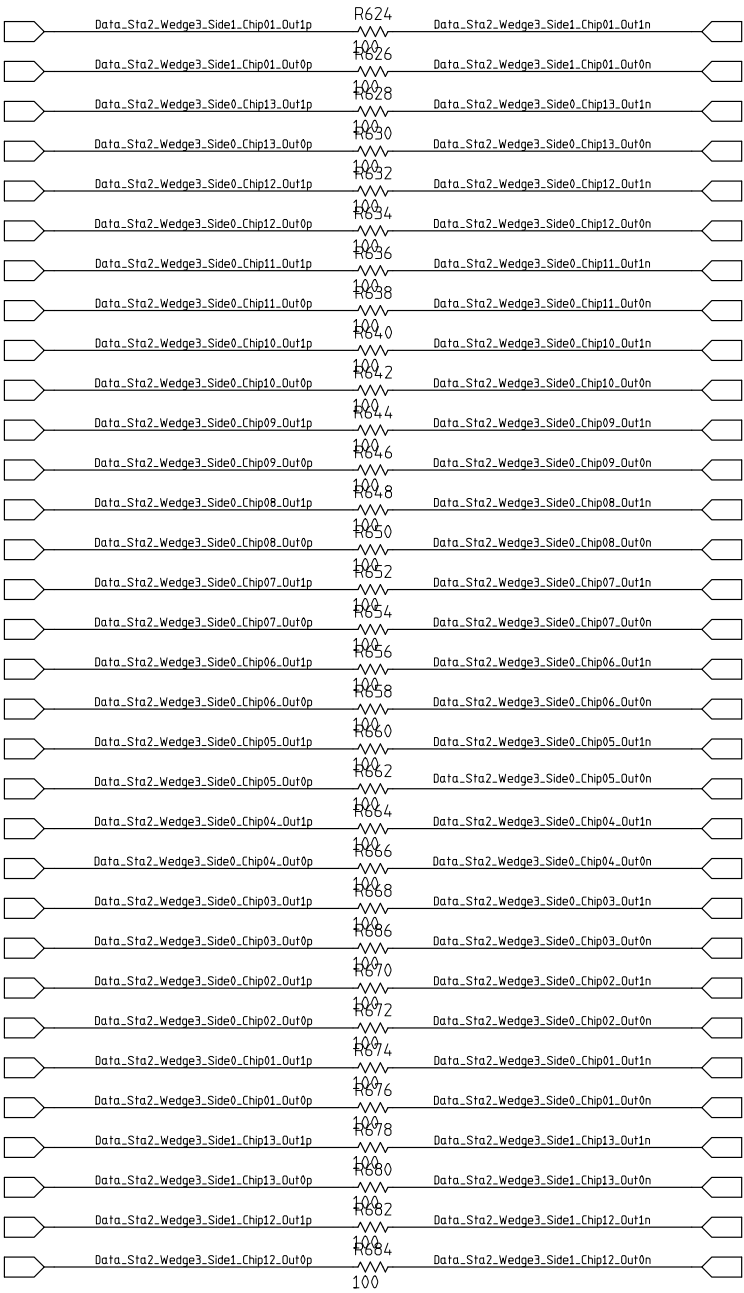
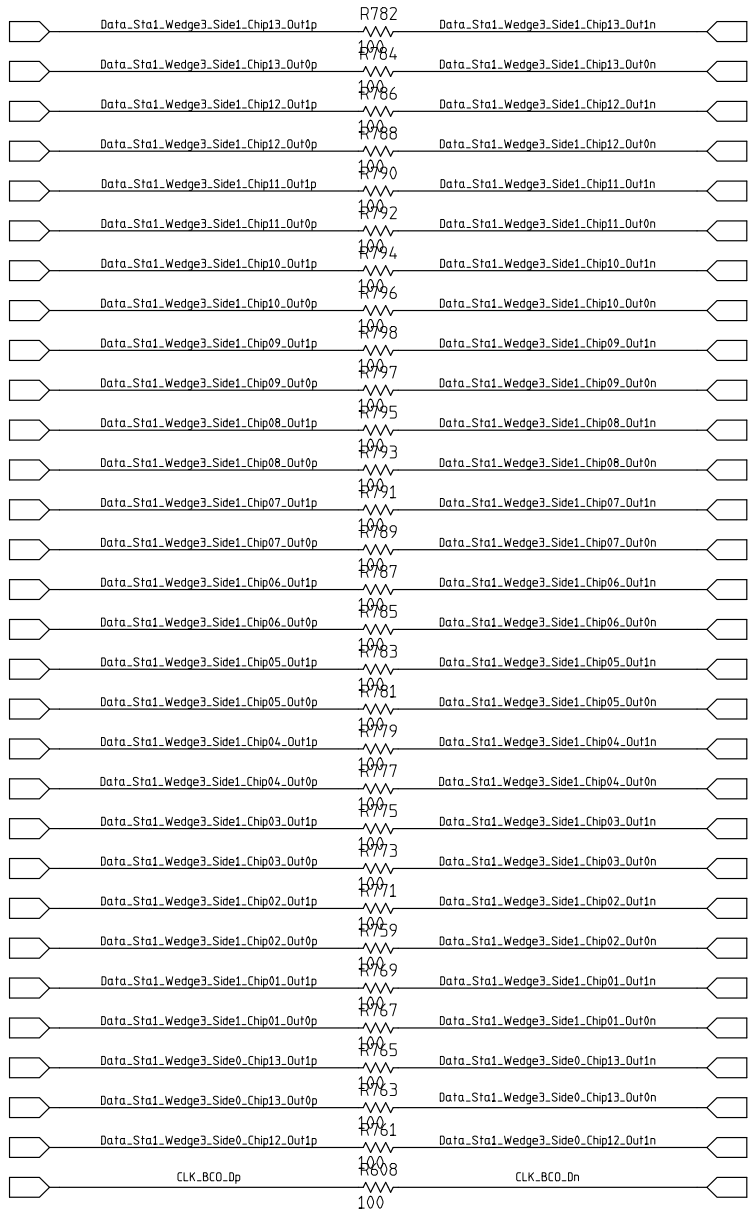
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REVISION LETTER	CLASS REVIEW	REVISIONS				DATE	CHANGE BY	CHECK BY	APPROVED BY				
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						PART: U		DRAWING: U					
						TITLE (P-25) FVTX ROC PROTOTYPE LVDS Input Terminations FPGA C							
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											0.X= ± ——— 0.XXX= ± ——— FINISH ± ———		
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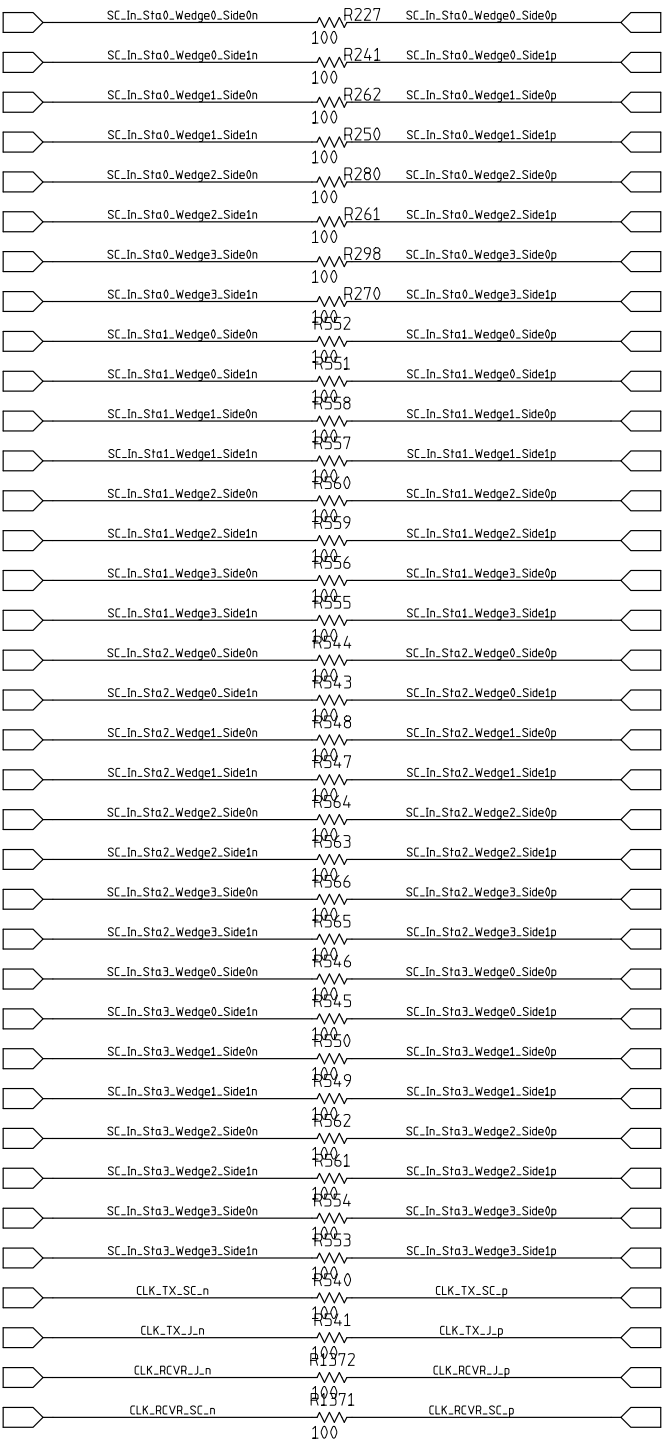
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ORIGINATED	NAME	SIGNATURE	DATE	GROUP							
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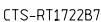
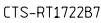
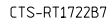
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