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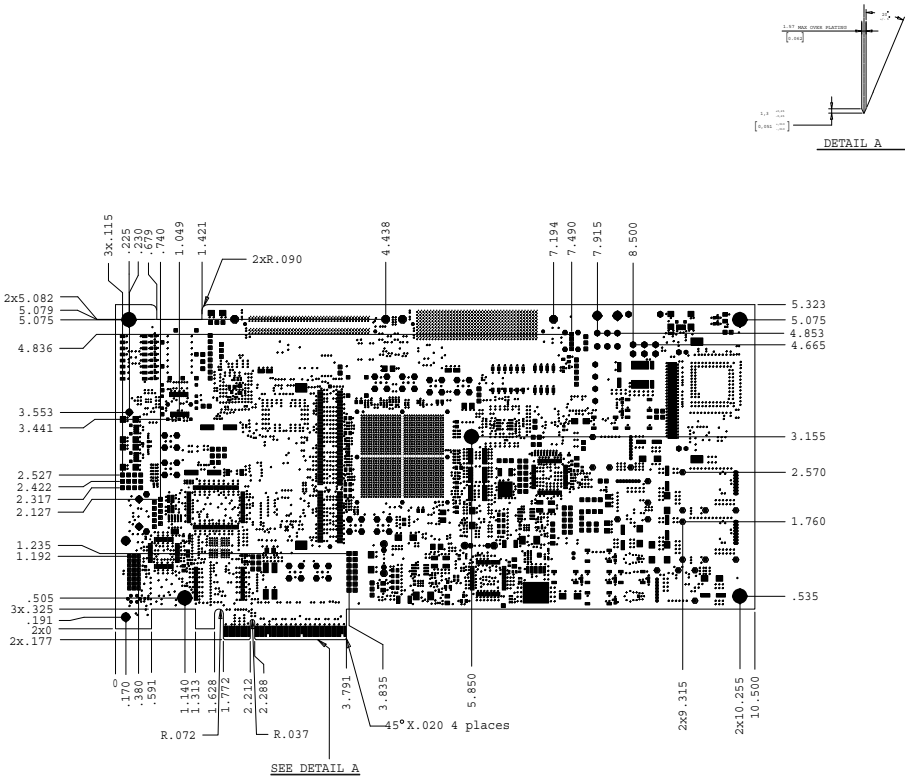
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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	02	INITIAL RELEASE	09/19/09
			APPROVED
			RL

- NOTES: (UNLESS OTHERWISE SPECIFIED)
THIS FAB SHOULD BE "ROHS COMPLIANT".
- FABRICATE TO IPC-A-600, CURRENT REVISION
 - BOARD SHALL MEET THE INSPECTION CRITERIA OF
 - ACCEPTABILITY AS PER IPC-A-600 (LATEST REVISION) CLASS II
 - QUALIFICATION AND PERFORMANCE AS PER IPC-6012 (LATEST REVISION) CLASS II.
 - MATERIAL: ISOLA 370 HR (ROHS COMPLIANT MATERIAL) OR EQUIVALENT; GLASS TRANSITION TEMPERATURE MUST MEET OR EXCEED THE TEMPERATURE EXHIBITED WITH HIGH TEMPERATURE PROCESSES ASSOCIATED WITH LEAD FREE ASSEMBLY.
 - APPLY SOLDER MASK OVER BARE COPPER (SMOBC) 1AW
IPC-SM-840, BOTH SIDES, USING LPI, COLOR GREEN.
 - LPI SOLDER MASK TAIYO PSR4000 (ROHS COMPLIANT MATERIAL) OR EQUIVALENT WILL BE USED ON BOTH SIDES.
 - SOLDER MASK REQUIREMENTS FOR VIAS:
 - ALL NON - TEST POINT VIAS WHERE THE DESIGN SHOWS A SOLDER MASK RELIEF OF 4 MILS OVER VIA DRILL SIZE TO BE SUPPLIED ON THE FINISHED BOARD AS SOLDER MASK ENCROACHED (DRILL PLUS 4 MILS; MASK TO ENCROACH ONTO VIA PAD BUT NOT INTO VIA HOLE)
 - ALL TEST POINT VIAS (SHOWN AS ONE TO ONE WITH IN DESIGN WITH NO SOLDER MASK ENCROACHMENT ON TEST SIDE) SHALL BE FULLY EXPOSED AND ACCESSIBLE ON FINISHED BOARD.
 - IF PRESENT, VIAS WHICH ARE COVERED WITH SOLDER MASK OR WHICH ARE COMING UNDER BGA's ON BOTH TOP AND BOTTOM SIDES ON TOP OF EACH OTHER (EITHER PARTIALLY OR FULLY BRING CLAM SHELL BGA's) SHOULD BE PRE- PLUGGED WITH SOLDER MASK ON BOTH SIDES , MAX HEIGHT NOT TO EXCEED 0.0025".
 - SOLDER MASK REGISTRATION TO BE WITHIN DIAMETRICAL TRUE POSITION OF + / - 0.002"WITH APPLICABLE HOLE / PAD.
 - FINISH: GOLD IMMERSION.
 - SILKSCREEN USING WHITE - HAVEN PC421 (NON-CONDUCTIVE OR EQUIVALENT ROHS COMPLIANT MATERIAL) BOTH SIDES DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON SOLDER LANDS IS NOT ACCEPTABLE.
 - VENDOR LOGO AND DATE CODE TO BE MARKED SOLDER SIDE IN SILKSCREEN. MAXIMUM HEIGHT 0.12 INCHES.
 - 100% ELECTRICAL TEST REQUIRED FOR CONTINUITY. BOARD SHALL HAVE A UL-RATING OF 94V-0. UL SYMBOL AND RATING SHALL BE MARKED SOLDER SIDE IN SILKSCREEN.
 - REMOVE ALL UNUSED PADS FROM INTERNAL LAYERS.
 - 274X GERBER/ODB++ USED FOR FAB MUST BE VERIFIED AGAINST THE PROVIDED IPC356 NETLIST. COPPER SLIVERS THAT ARE LESS THAN 0.003" IN WIDTH BETWEEN ANTI-PAD TO PLANE EDGE, ANTI-PAD TO SPLIT PLANE AND ANTI-PAD MUST BE REMOVED FROM THE MANUFACTURING ARTWORK. A NETLIST COMPARISON MUST BE PASSED WITH NO VIOLATION AFTER THE REMOVAL OF SLIVERS. ANY REQUIREMENT FOR SLIVER REMOVAL ABOVE OR EQUAL TO THE 0.003" COPPER WIDTH MUST BE ADDRESSED AND APPROVED IN WRITING BY SUPPLIER.
 - VIAS ARE SUPPOSED TO BE DIRECTLY CONNECTED TO RESPECTIVE PLANE.
 - FOR IMPEDANCE CONTROL DETAILS REFER TO THE FILE "4112_ML605_STACK-UP.PDF" PROVIDED WITH GERBER DATA.
 - INTENTIONAL SHORT:
PLEASE REPORT ANY SHORT OTHER THAN THESE:
GND SHORTED TO DGND1_9240, DGND2_9240, AGND1, AGND2, AGND3, AGND5, AGND6, AGND7 AND AGND8.
DGND1_9240 SHORTED TO AGND1_9240
DGND2_9240 SHORTED TO AGND2_9240

		COPPER WEIGHT	COPPER THICKNESS	SINGLE ENDED		EDGE-COUPLED DIFFERENTIAL	
				TRACE WIDTH	THICKNESS	TRACE WIDTH/ ASSESS	THICKNESS
TOP SIDE	LAYER 1 TOP	0.5 OZ+PLATING	2.0	4.5 MIL	50	4.5 MIL/6.5 MIL	50
	PRE-PRSG						
	LAYER 2 GND1	0.5 OZ	0.6			3.5 MIL/6.5 MIL	100
	CORE						
	LAYER 3 SIG1	0.5 OZ	0.6	3.25 MIL	50	3.6 MIL/7.4 MIL	50
	PRE-PRSG					3.0 MIL/9.0 MIL	100
	LAYER 4 GND2	0.5 OZ	0.6				
	CORE						
	LAYER 5 SIG2	0.5 OZ	0.6	3.25 MIL	50	3.6 MIL/7.4 MIL	50
	PRE-PRSG					3.0 MIL/9.0 MIL	100
	LAYER 6 GND3	0.5 OZ	0.6				
	CORE						
	LAYER 7 SIG3	0.5 OZ	0.6	3.25 MIL	50	3.6 MIL/7.4 MIL	50
	PRE-PRSG					3.0 MIL/9.0 MIL	100
	LAYER 8 GND4	0.5 OZ	0.6				
	CORE						
BOTTOM SIDE	LAYER 9 PWR1	1.0 OZ	1.2				
	PRE-PRSG						
	LAYER 10 PWR2	1.0 OZ	1.2				
	CORE						
	LAYER 11 GND5	0.5 OZ	0.6				
	PRE-PRSG						
	LAYER 12 SIG4	0.5 OZ	0.6	3.25 MIL	50	3.6 MIL/7.4 MIL	50
	CORE					3.0 MIL/9.0 MIL	100
	LAYER 13 GND6	0.5 OZ	0.6				
	PRE-PRSG						
	LAYER 14 SIG5	0.5 OZ	0.6	3.25 MIL	50	3.6 MIL/7.4 MIL	50
	CORE					3.0 MIL/9.0 MIL	100
	LAYER 15 GND7	0.5 OZ	0.6				
	PRE-PRSG						
	LAYER 16 BOT	0.5 OZ+PLATING	2.0	4.5 MIL	50	4.5 MIL/6.5 MIL	50

CROSS SECTION DETAIL

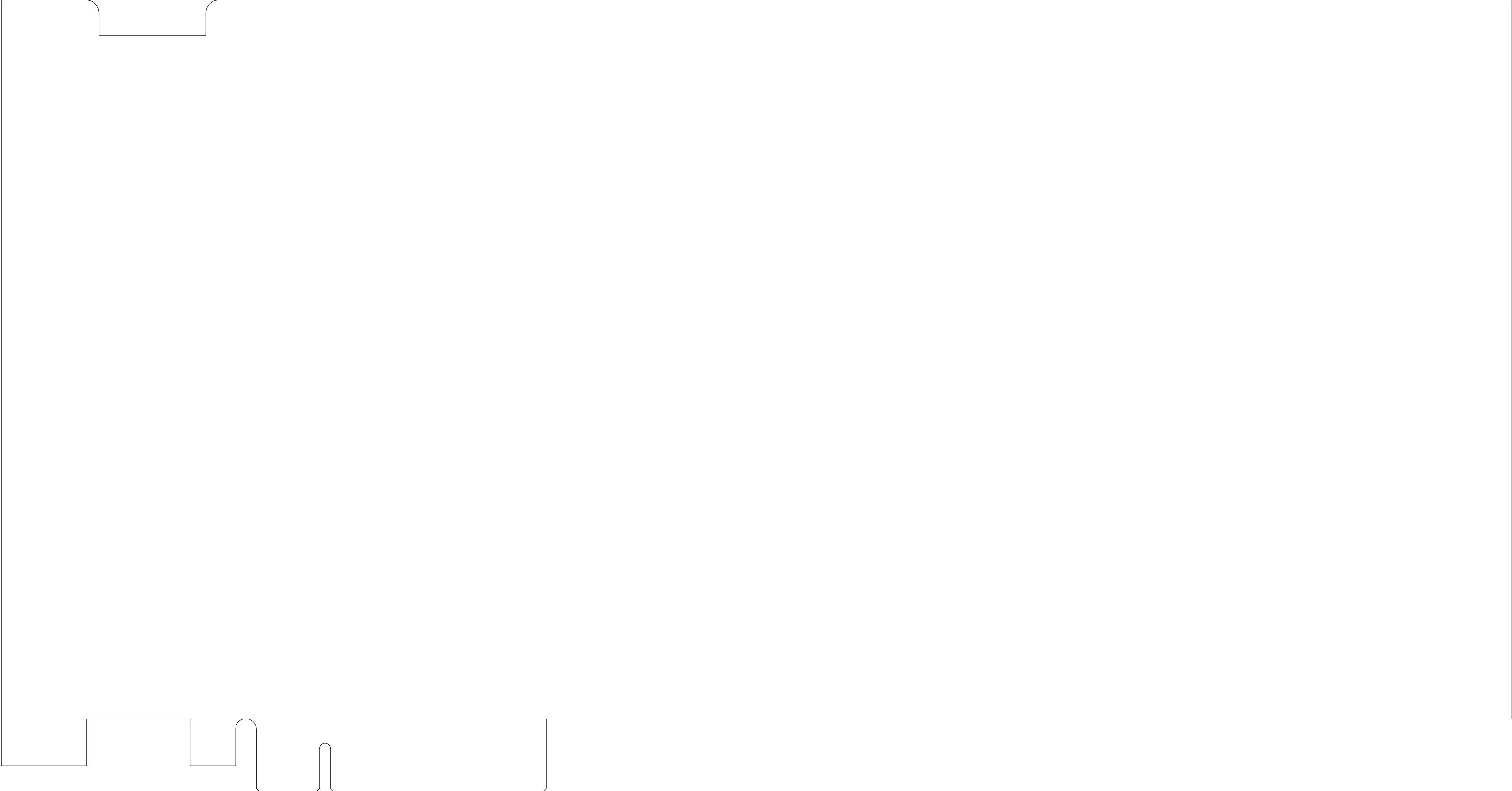


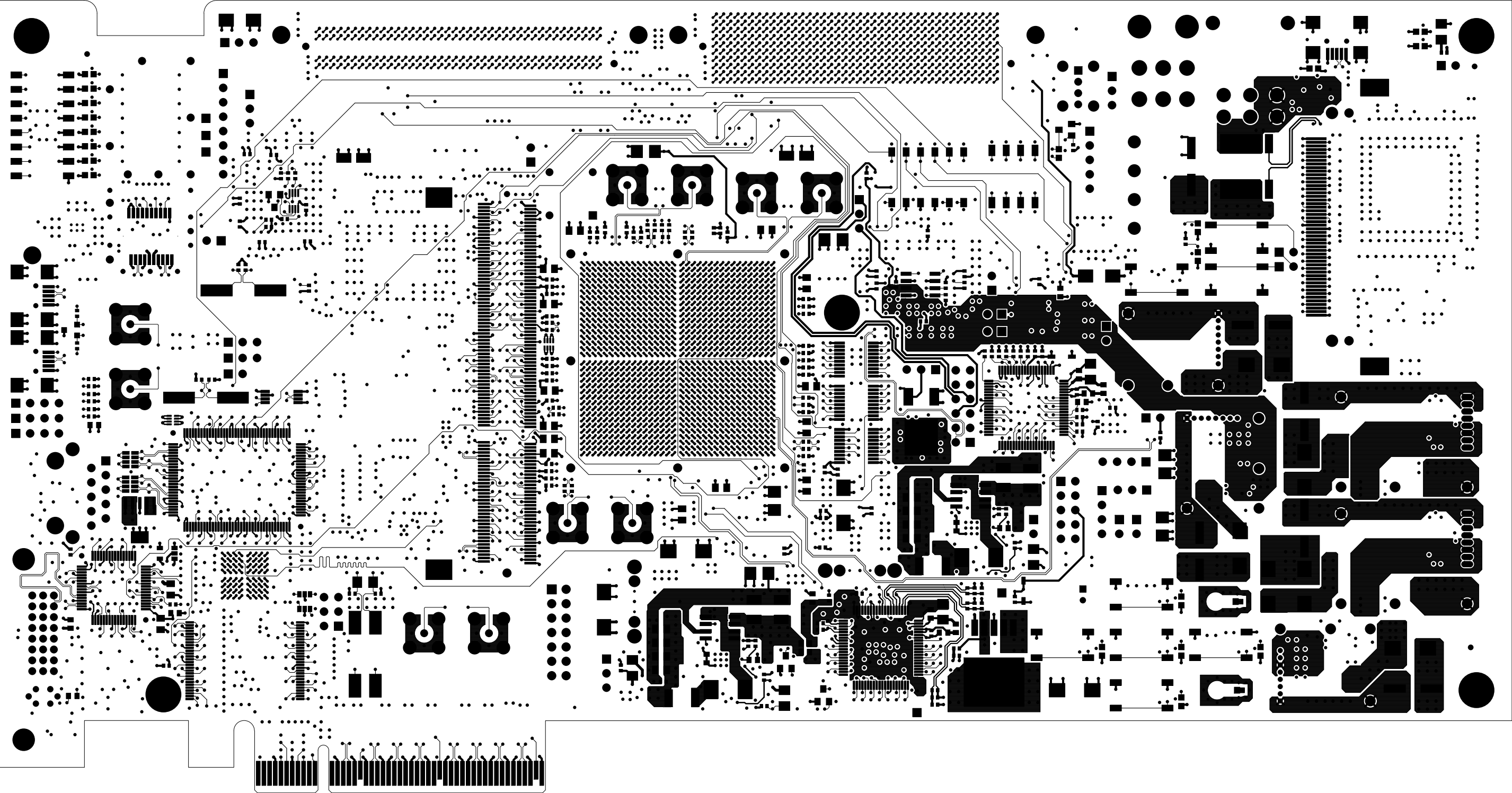
SEE DETAIL A

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	10.0	+0.0/-10.0	PLATED	1846
•	12.0	+0.0/-12.0	PLATED	3351
•	16.0	+3.0/-3.0	PLATED	30
•	25.0	+3.0/-3.0	PLATED	2
•	26.0	+3.0/-3.0	PLATED	30
•	28.0	+3.0/-3.0	PLATED	16
■	32.0	+3.0/-3.0	PLATED	4
■	33.0	+3.0/-3.0	PLATED	1
■	34.0	+3.0/-3.0	PLATED	24
■	35.0	+3.0/-3.0	PLATED	12
■	36.0	+3.0/-3.0	PLATED	17
■	37.0	+3.0/-3.0	PLATED	6
■	40.0	+3.0/-3.0	PLATED	100
■	41.0	+2.0/-2.0	PLATED	10
■	42.0	+3.0/-3.0	PLATED	14
●	53.0	+3.0/-3.0	PLATED	4
●	55.0	+3.0/-3.0	PLATED	20
●	62.0	+3.0/-3.0	PLATED	4
●	63.0	+3.0/-3.0	PLATED	42
●	71.0	+3.0/-3.0	PLATED	10
●	73.0	+3.0/-3.0	PLATED	8
⊙	106.0	+3.0/-3.0	PLATED	4
⊕	123.0	+3.0/-3.0	PLATED	2
⊕	125.0	+3.0/-3.0	PLATED	5
⊕	126.0	+3.0/-3.0	PLATED	2
•	33.0	+3.0/-3.0	NON-PLATED	2
•	37.0	+3.0/-3.0	NON-PLATED	15
■	43.0	+3.0/-3.0	NON-PLATED	1
•	52.0	+3.0/-3.0	NON-PLATED	4
•	61.0	+3.0/-3.0	NON-PLATED	2
•	63.0	+3.0/-3.0	NON-PLATED	9
•	67.0	+3.0/-3.0	NON-PLATED	2
●	87.0	+3.0/-3.0	NON-PLATED	2
⊙	102.0	+3.0/-3.0	NON-PLATED	4
⊕	125.0	+3.0/-3.0	NON-PLATED	1
⊕	128.0	+3.0/-3.0	NON-PLATED	2

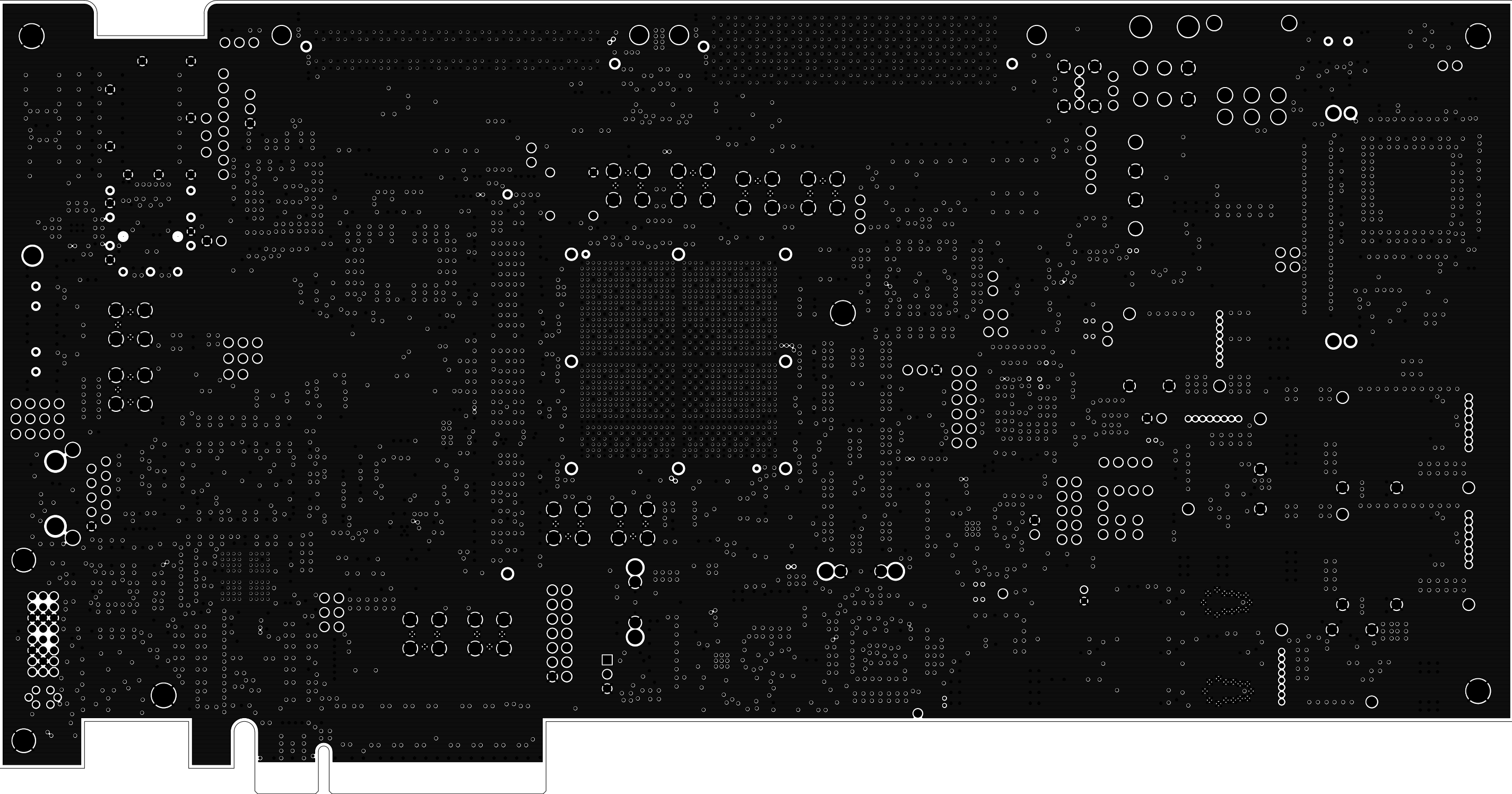
TOTAL HOLES: 5608

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVAL		DATE		CUSTOMER:	
LINEAR DIMENSIONS		DRAWN:		Faroq Bhatti		XILINX, INC	
.XXX = +.010		CHECKED:		Irfan Maqsood		PROJECT NAME:	
.XX = +.030		ENGR:		Rick LeBlanc		ML605	
.X = +.100		APPROVAL:		Rick LeBlanc		FAB DWG. NO.	
DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994		WHIZZ JOB NO.		4197		SCALE: 1:1	
DO NOT SCALE DRAWING		REV.		02		SHEET 1 OF 1	

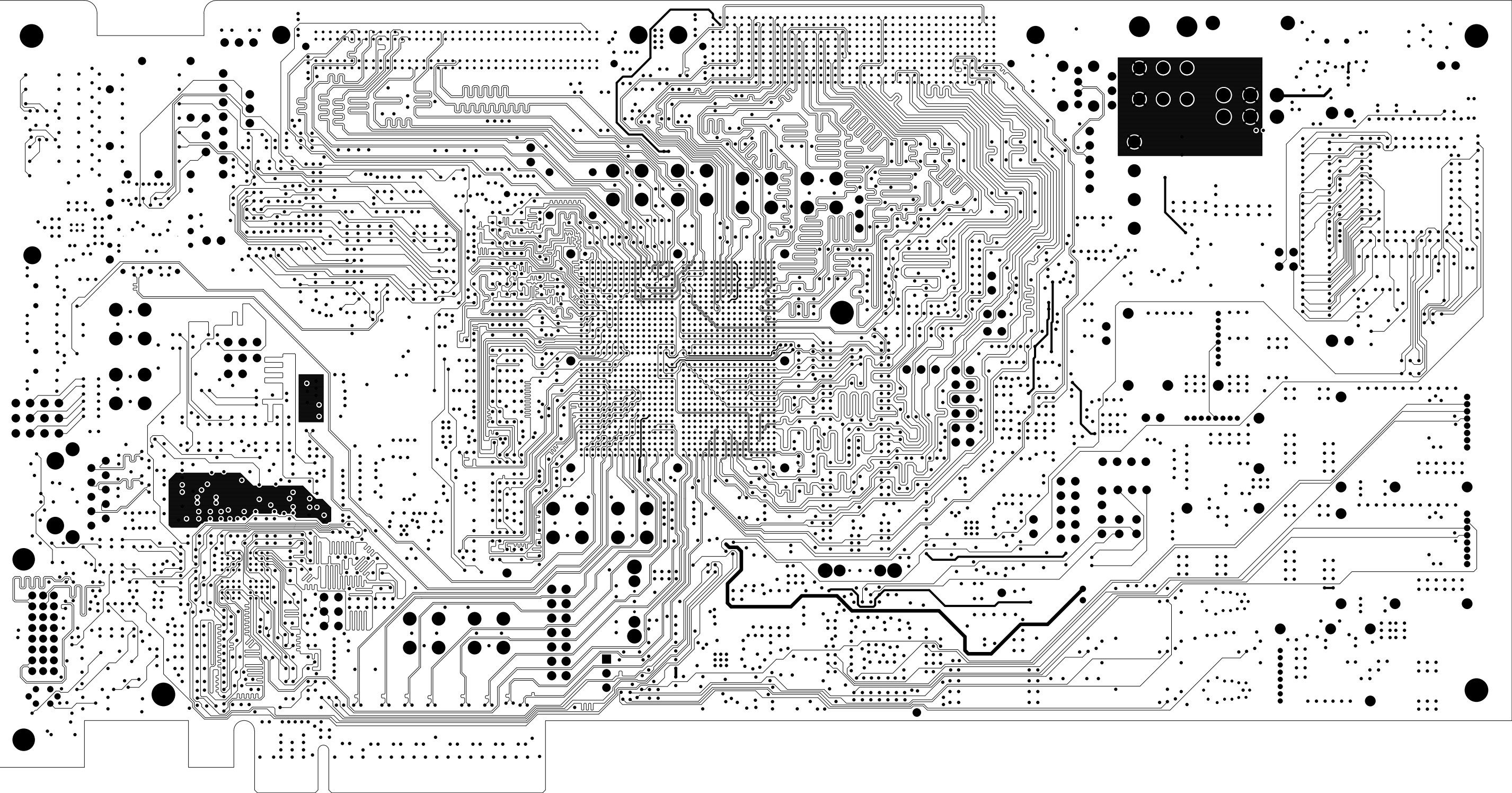




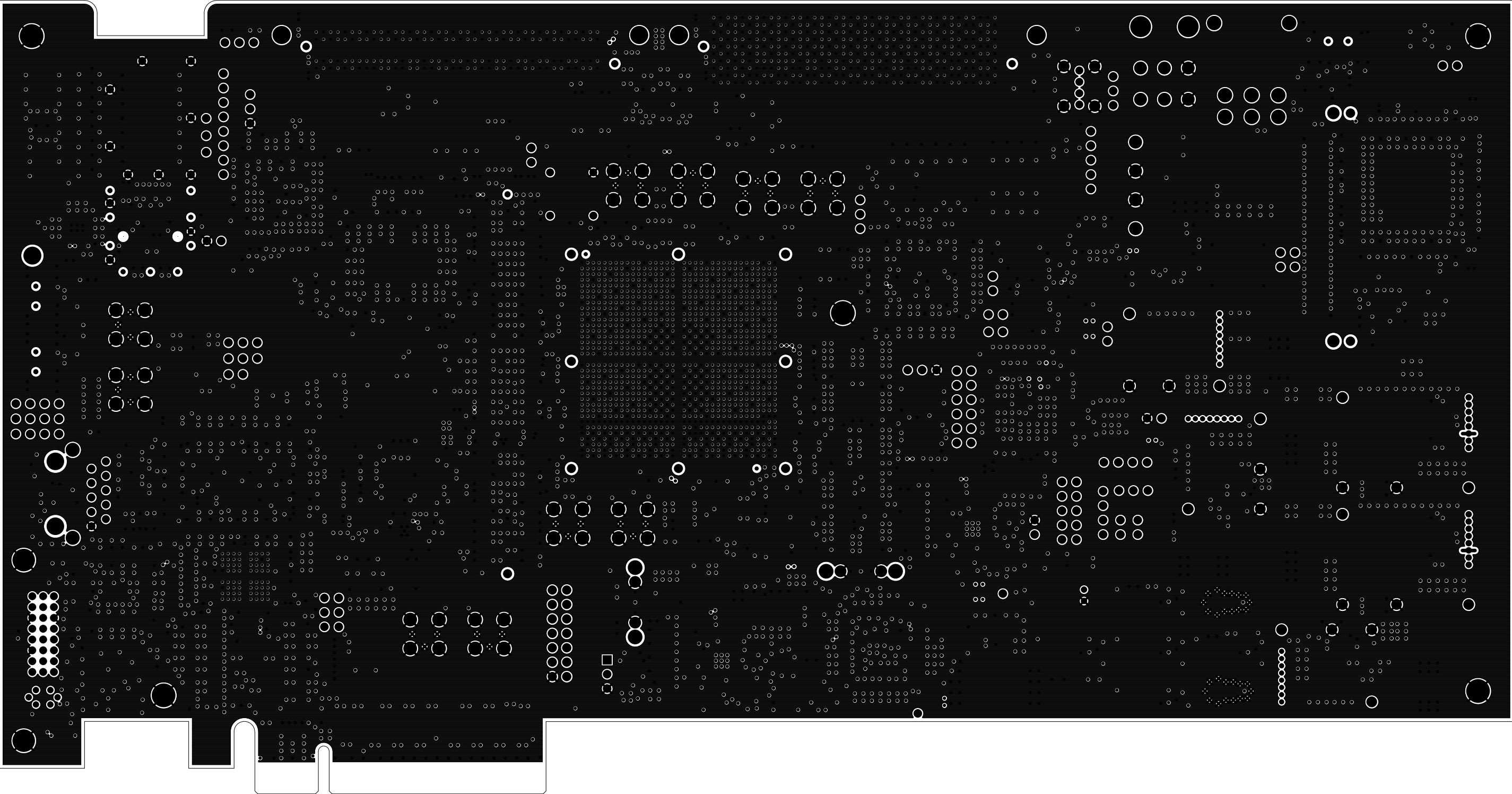
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	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
	LATEST NETLIST REV OR DATE: 09.18.2009		LATEST MECHANICAL REV OR DATE: respin of 4165	



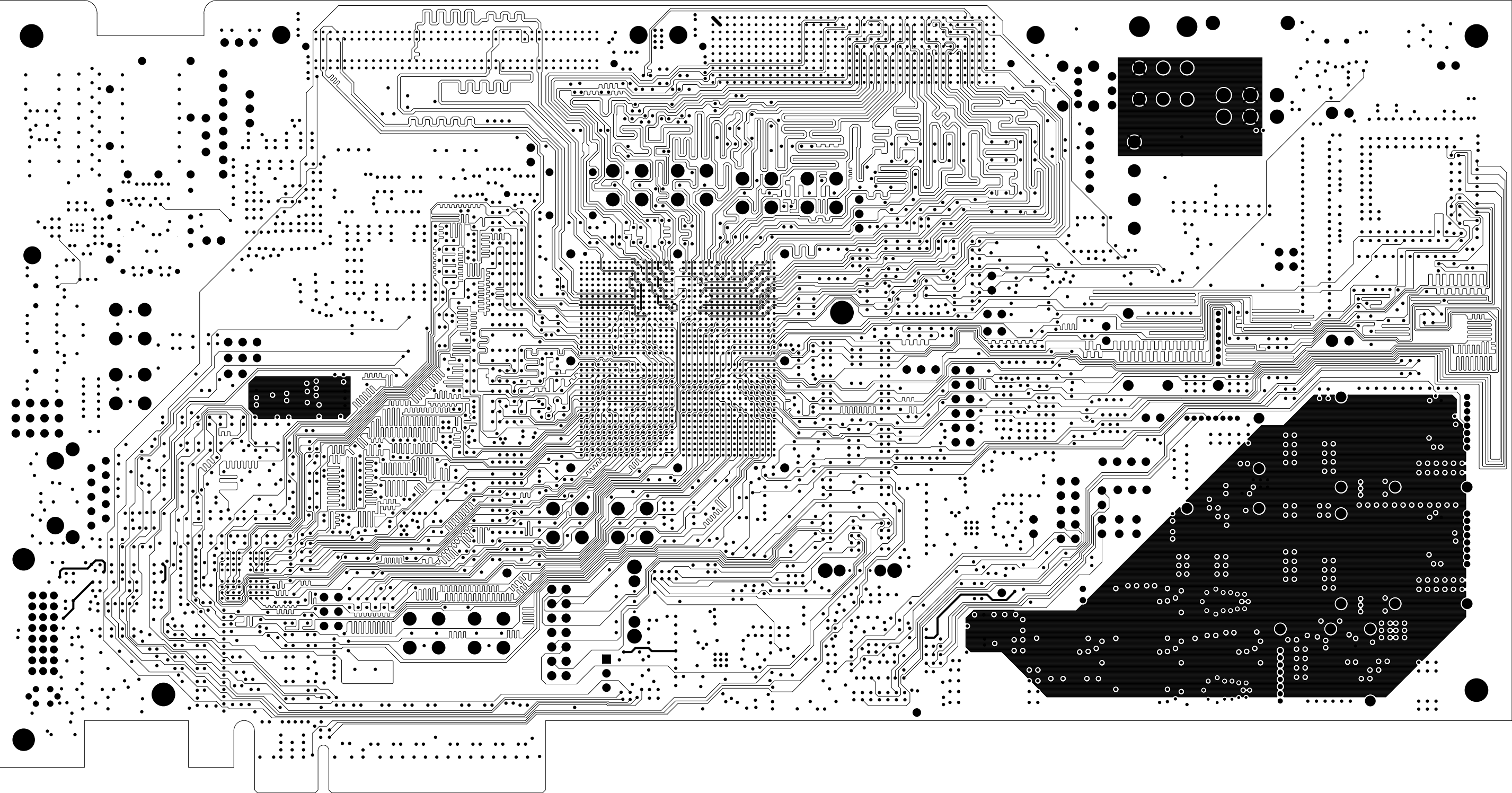
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	Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC	Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479
LATEST NETLIST REV OR DATE: 09.18.2009		REV. 02	
		LATEST MECHANICAL REV OR DATE: respin of 4165	



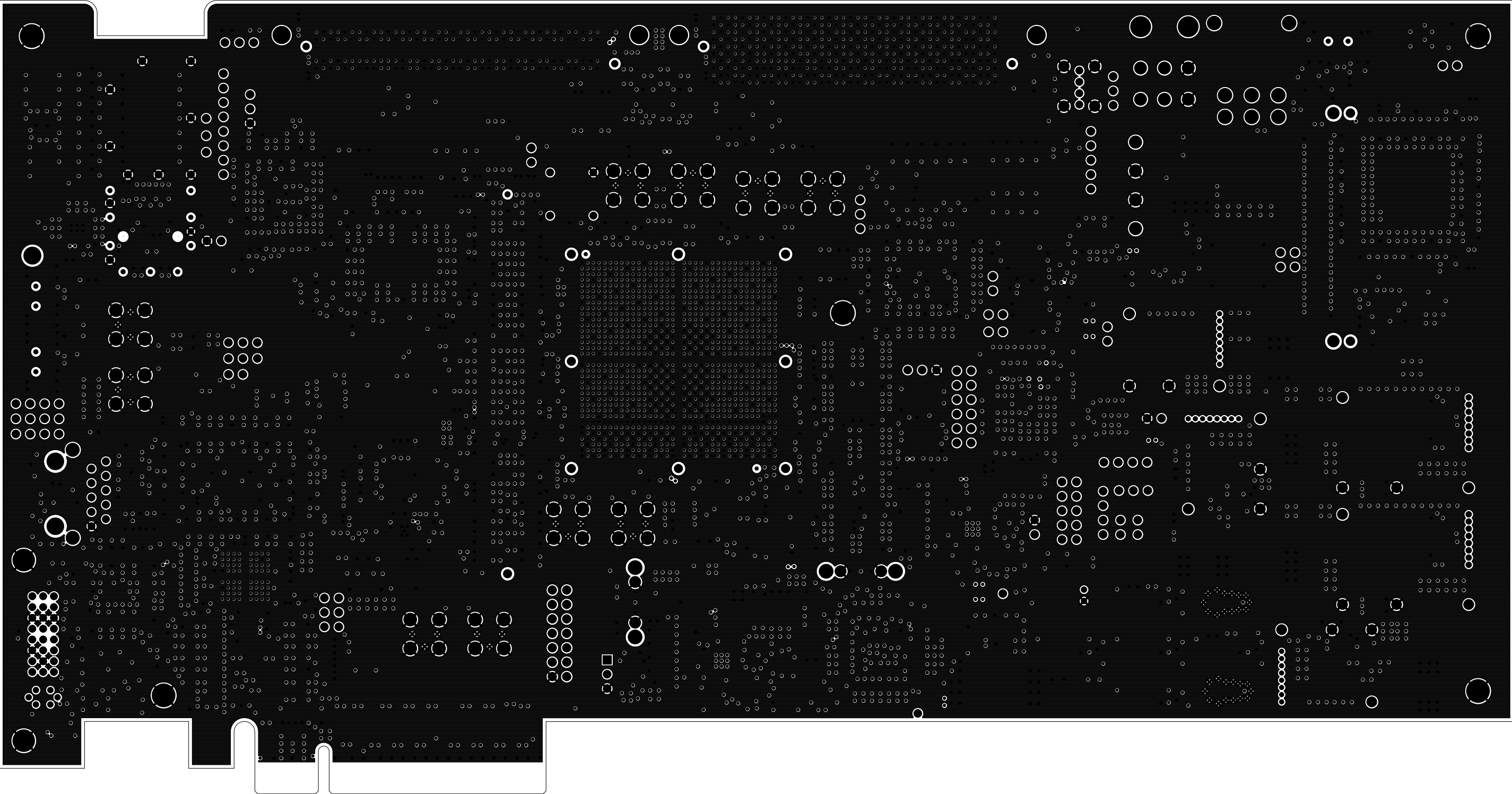
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	Layer:	03_SIG1	Sheet:	03 of: 24
	Layout Engineer:	FAROOQ BHATTI	Company Name:	XILINX INC.
	Design Engineer:	RICK LEBLANC	Project Name:	ML605
	Whizz Job Number:	4197	Date:	09.19.2009
LATEST NETLIST REV OR DATE: 09.18.2009		Project Number: 1280479		
		REV. 02		
		LATEST MECHANICAL REV OR DATE: respin of 4165		



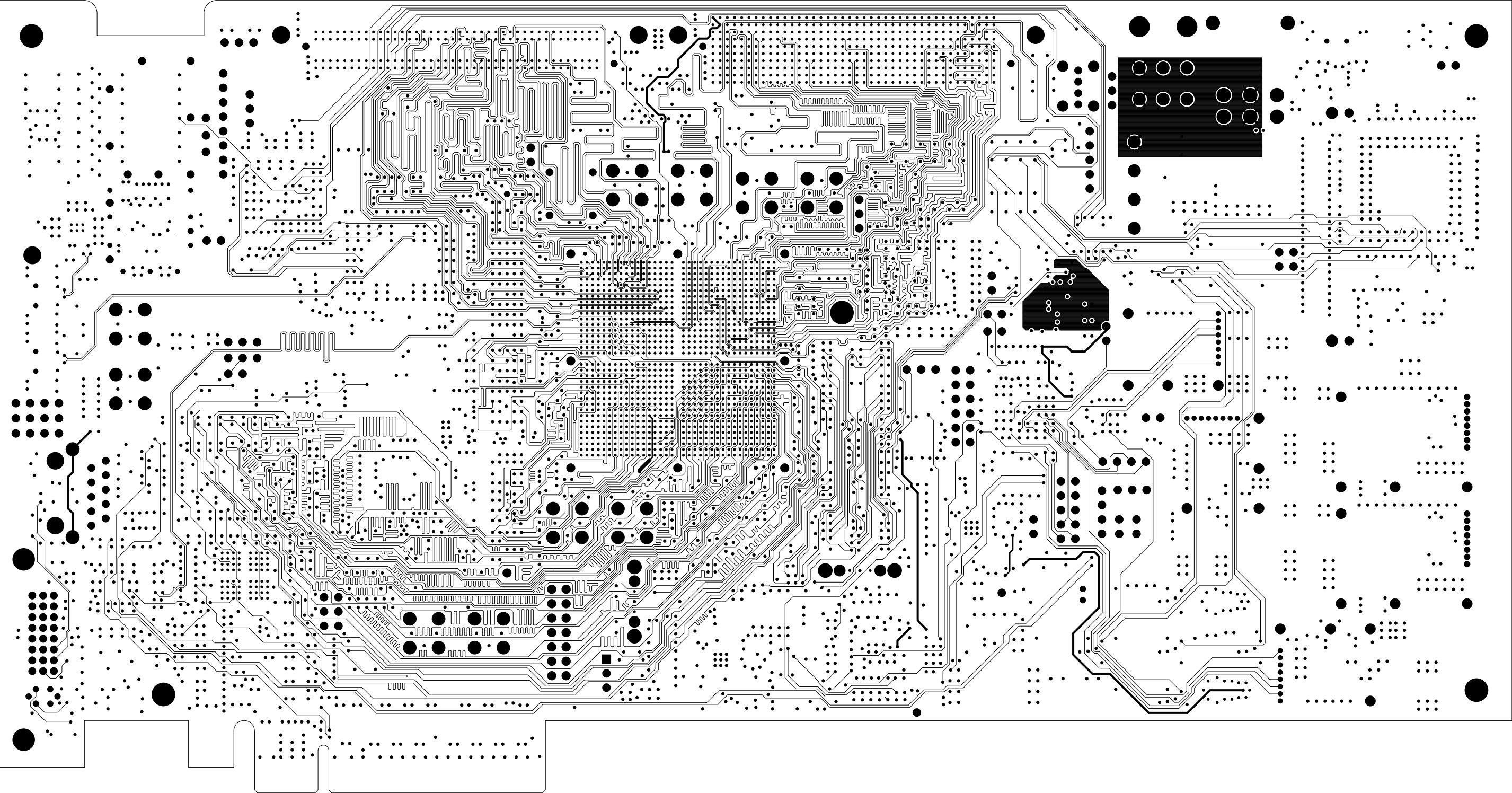
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	Layer: 04_GND2	Sheet: 04	of: 24	
	Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.		
	Design Engineer: RICK LEBLANC	Project Name: ML605		
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009		LATEST MECHANICAL REV OR DATE: respin of 4165		



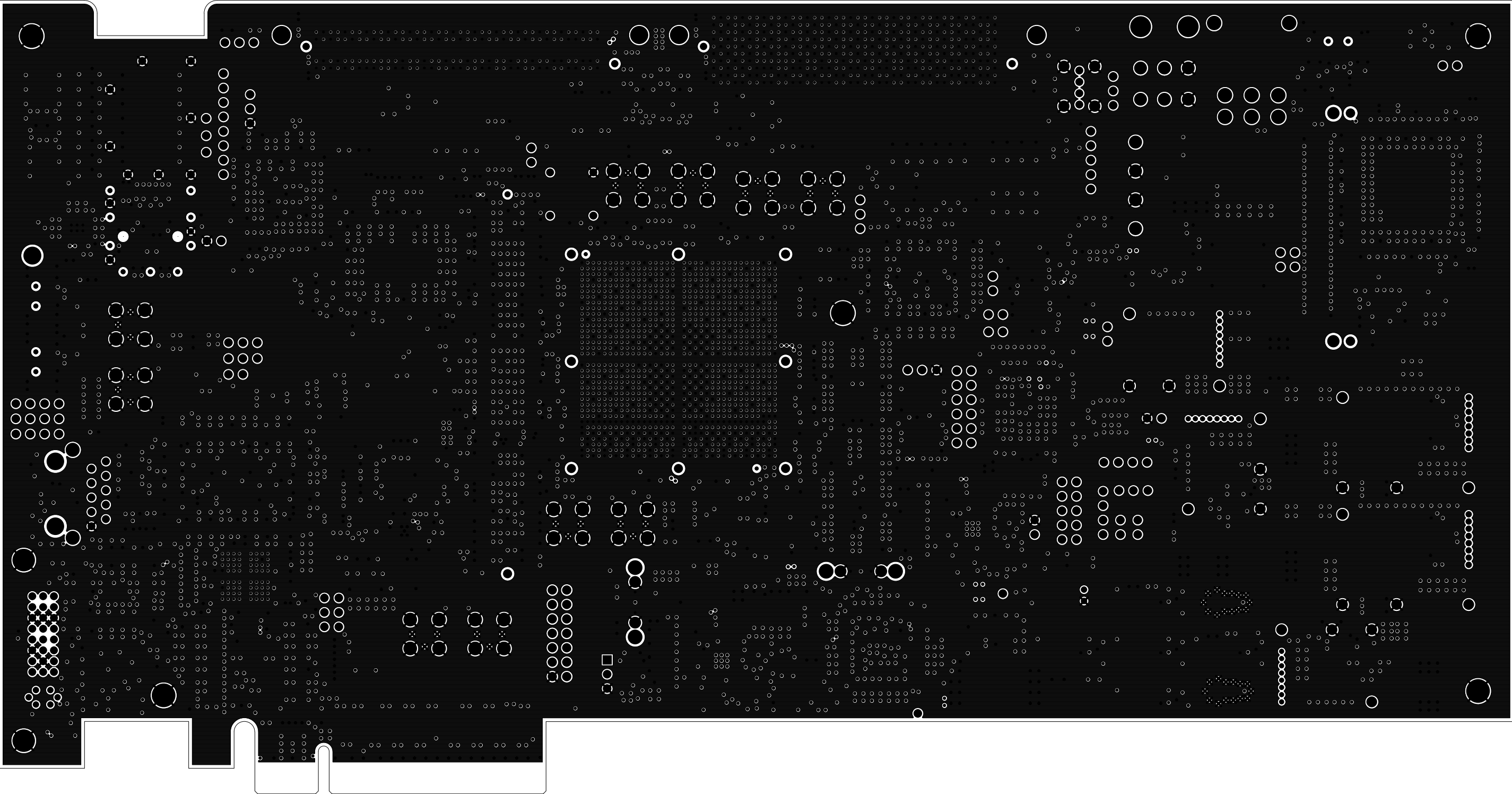
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	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009			LATEST MECHANICAL REV OR DATE: respin of 4165	



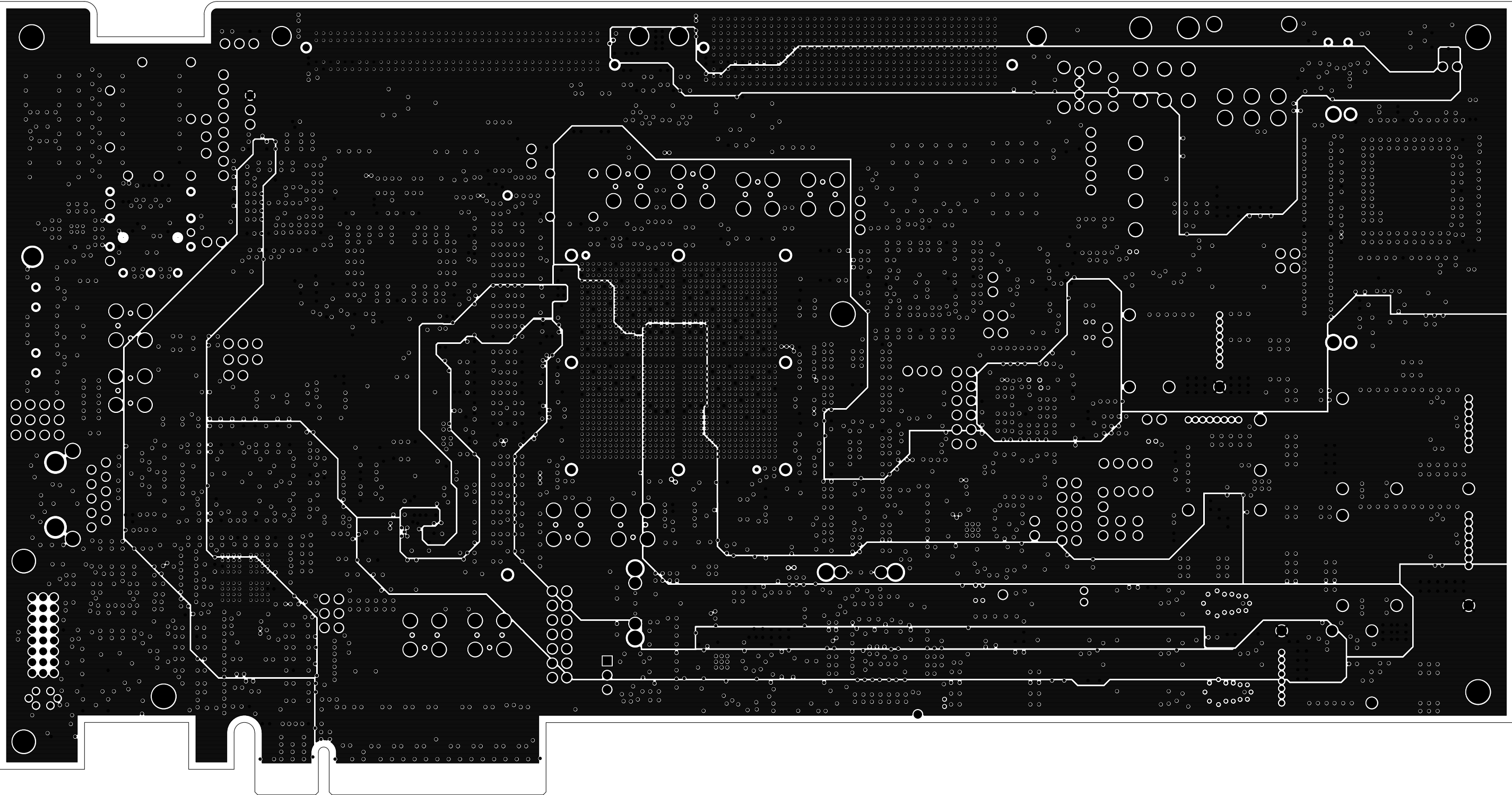
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	Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.		
	Design Engineer: RICK LEBLANC	Project Name: ML605		
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009		LATEST MECHANICAL REV OR DATE: respin of 4165		



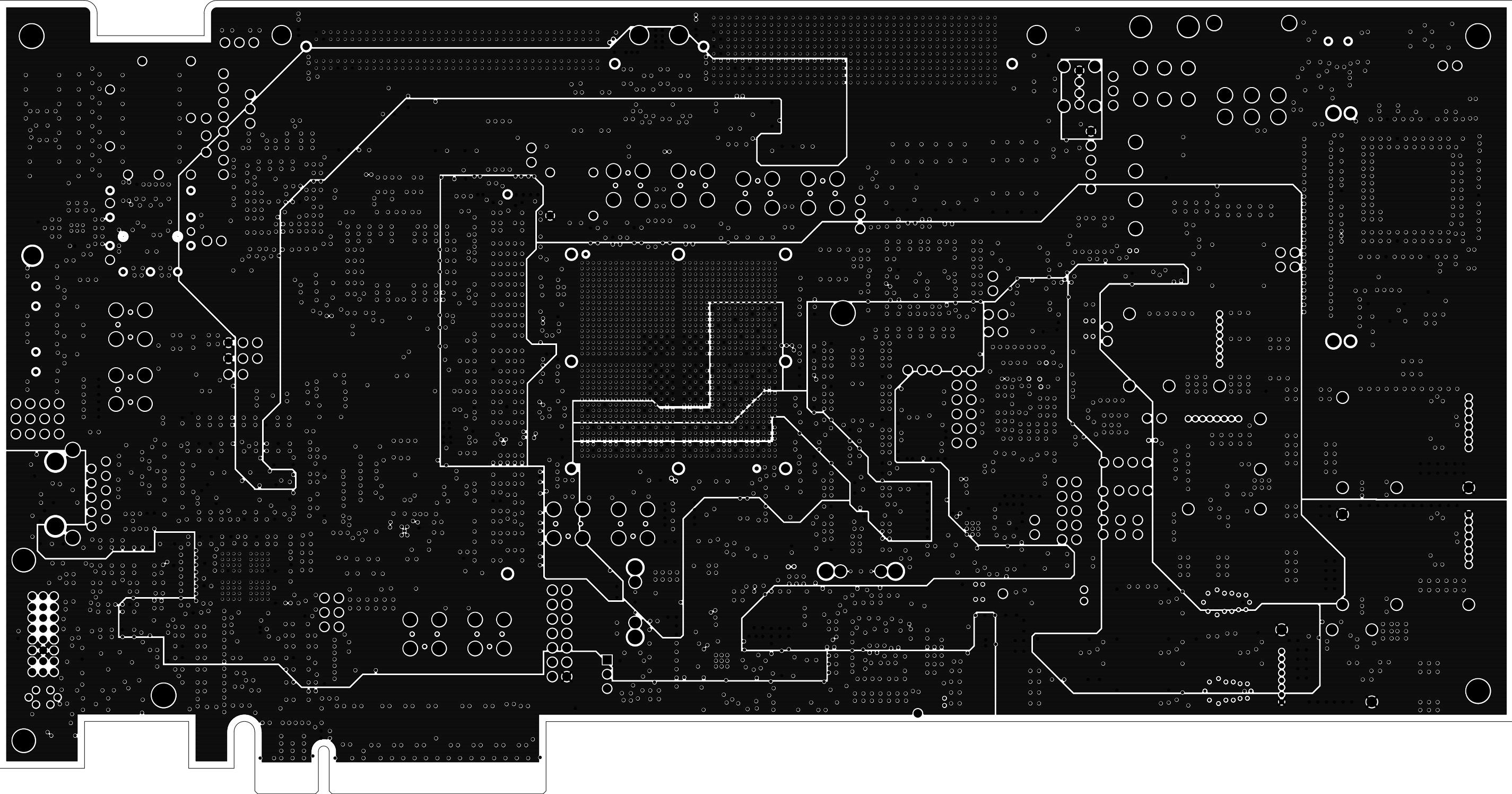
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		Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.		
		Design Engineer: RICK LEBLANC	Project Name: ML605		
		Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009			LATEST MECHANICAL REV OR DATE: respin of 4165		



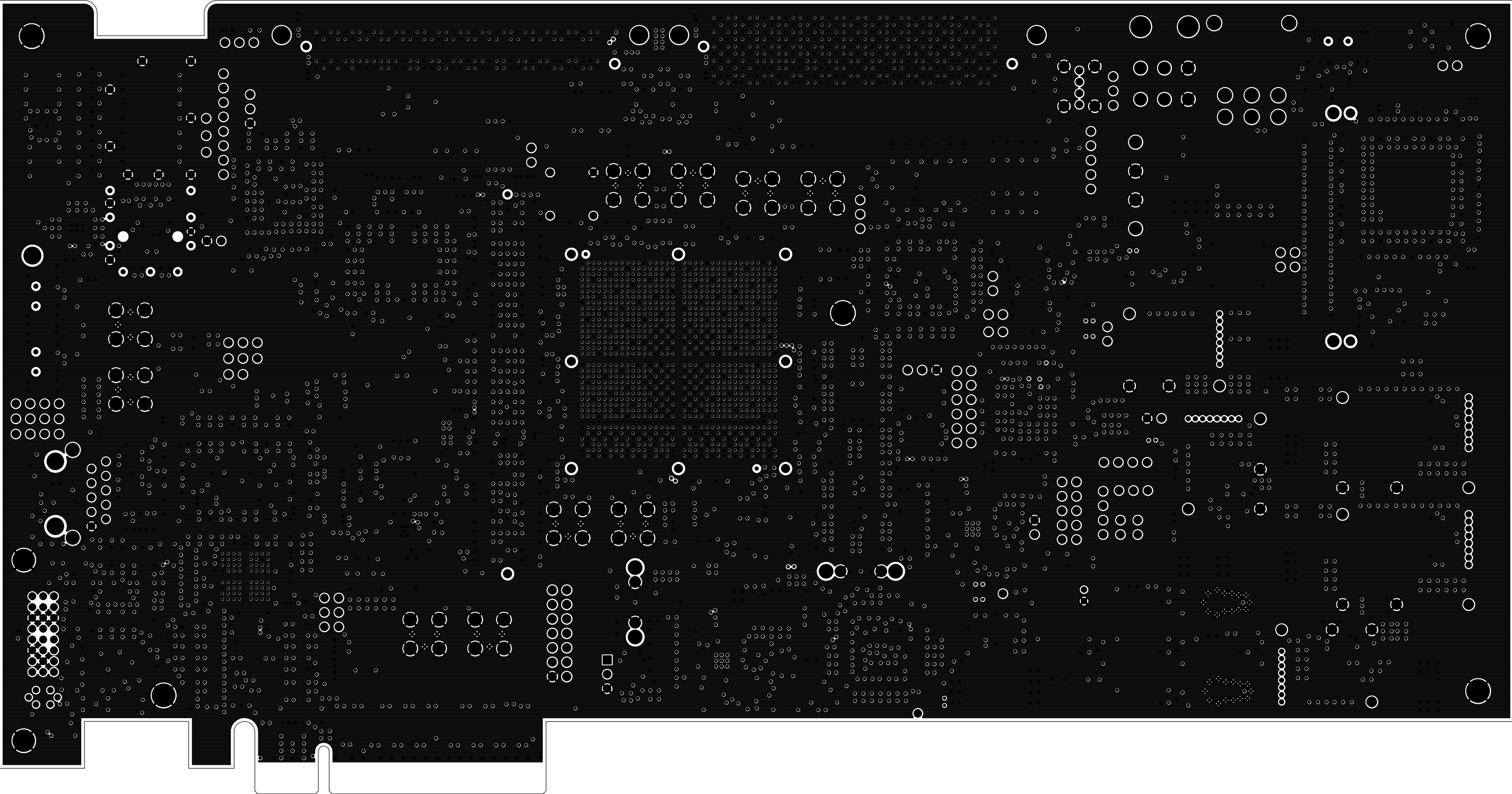
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	Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.		
	Design Engineer: RICK LEBLANC	Project Name: ML605		
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009		LATEST MECHANICAL REV OR DATE: respin of 4165		



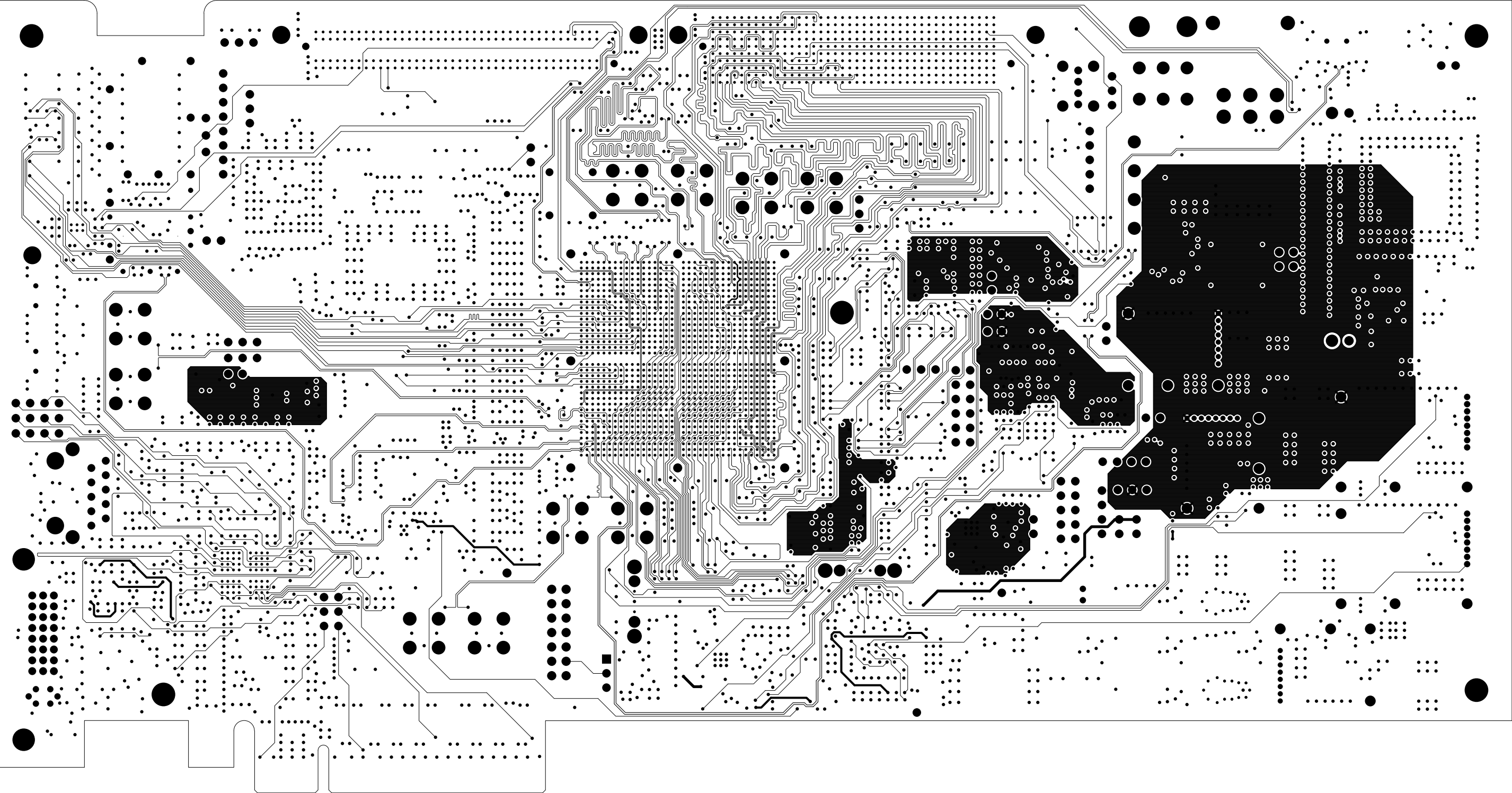
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	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009			LATEST MECHANICAL REV OR DATE: respin of 4165	



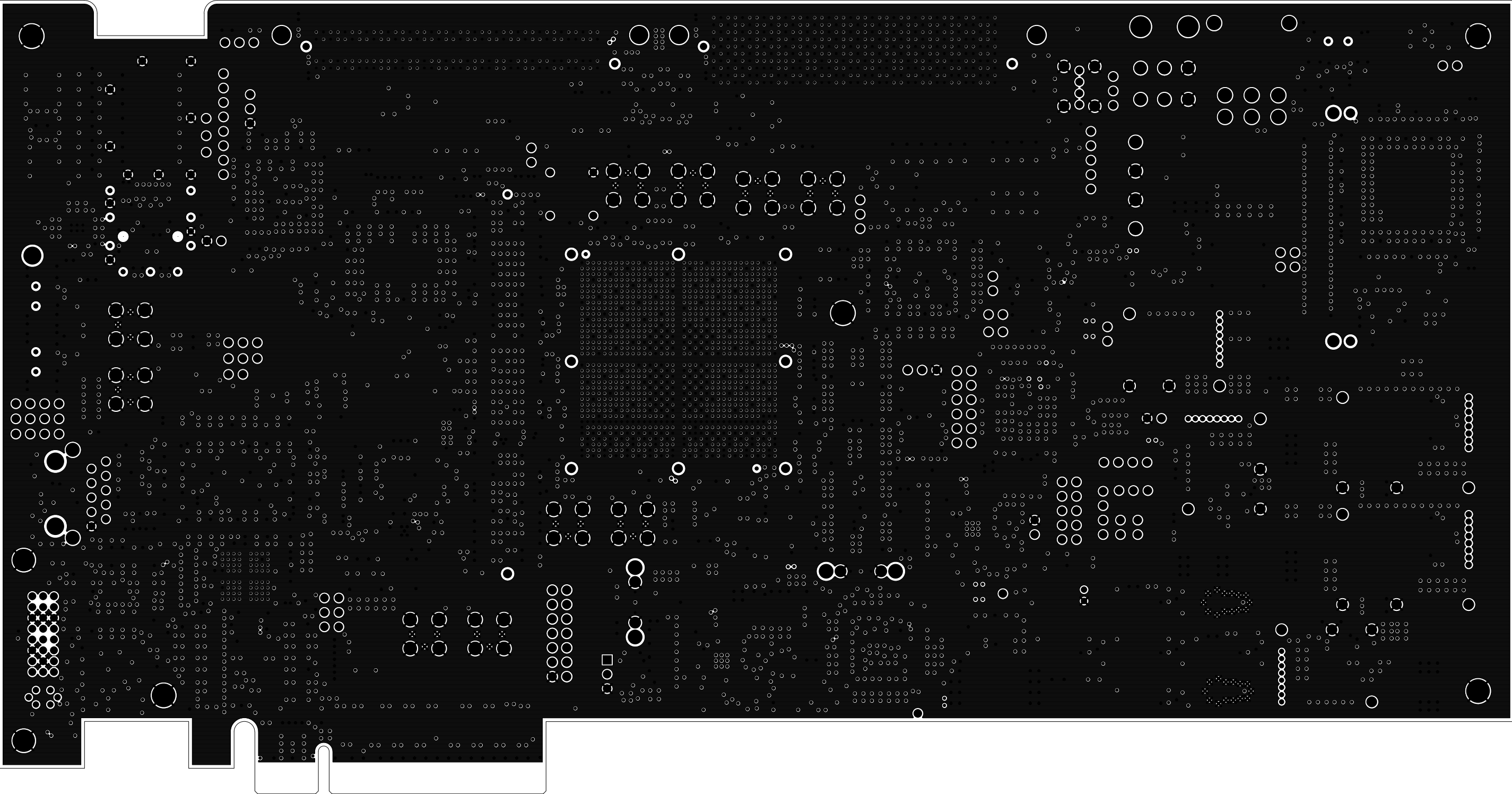
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	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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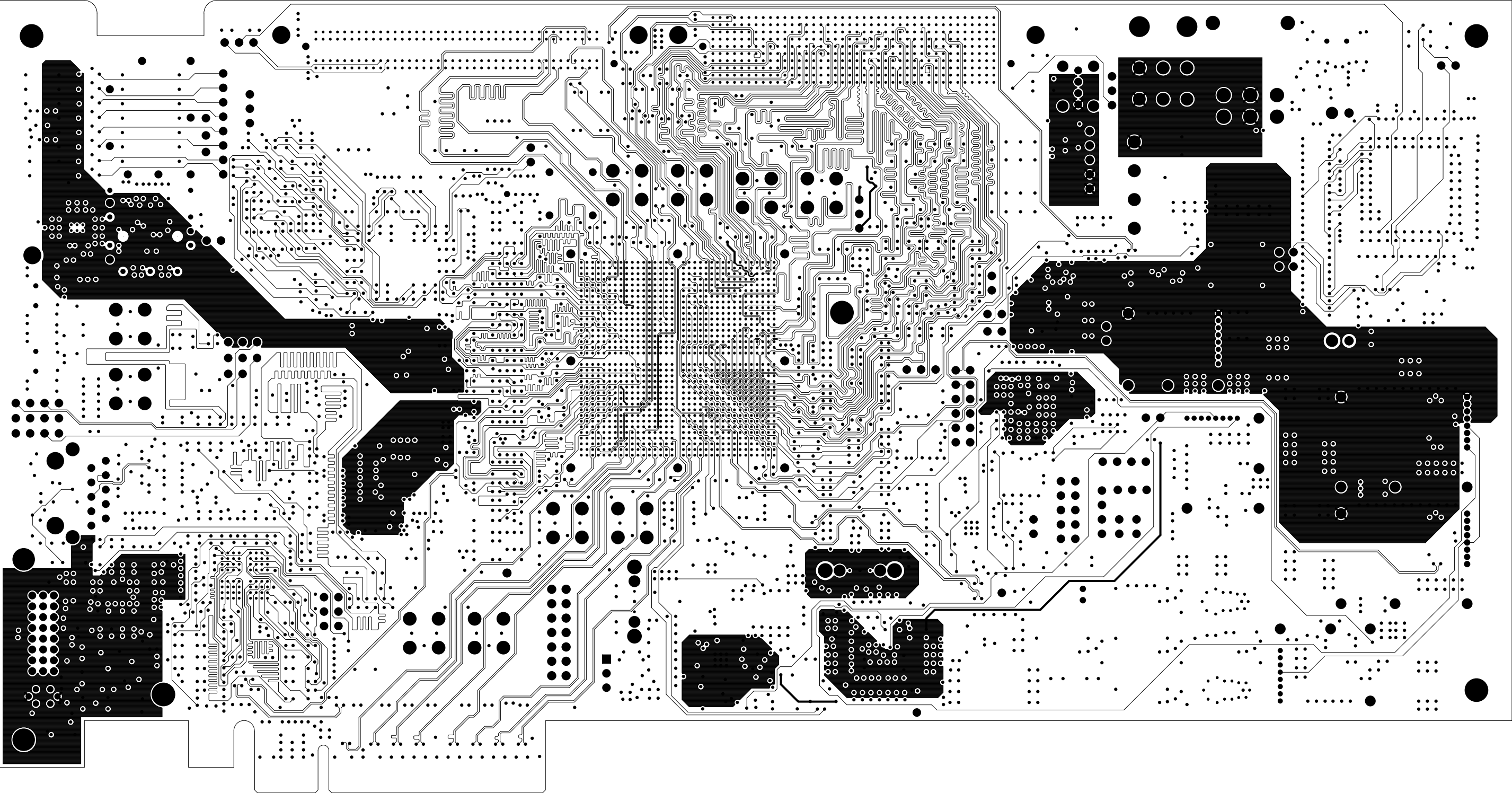
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	Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.		
	Design Engineer: RICK LEBLANC	Project Name: ML605		
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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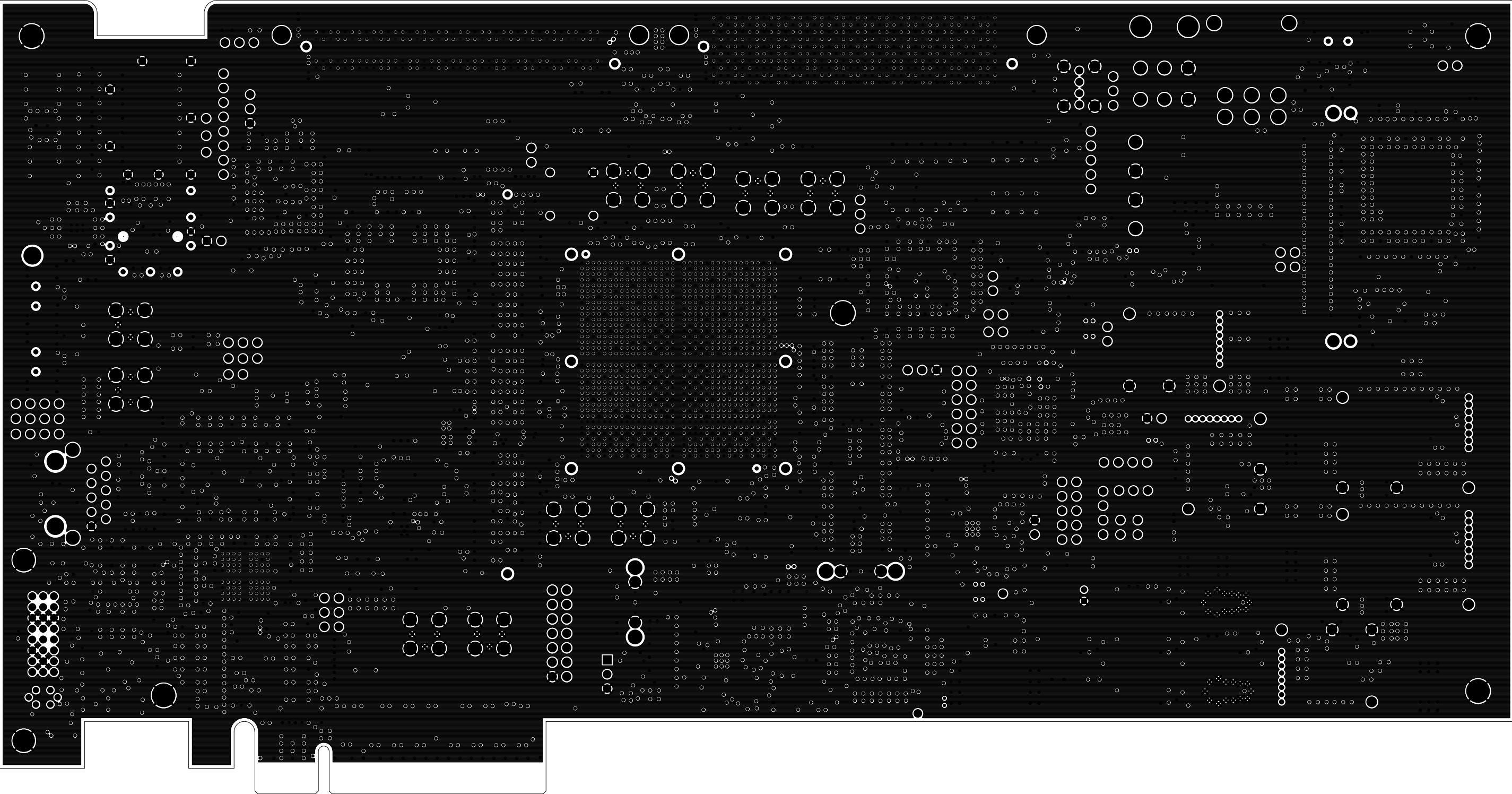
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	Design Engineer: RICK LEBLANC	Project Name: ML605		
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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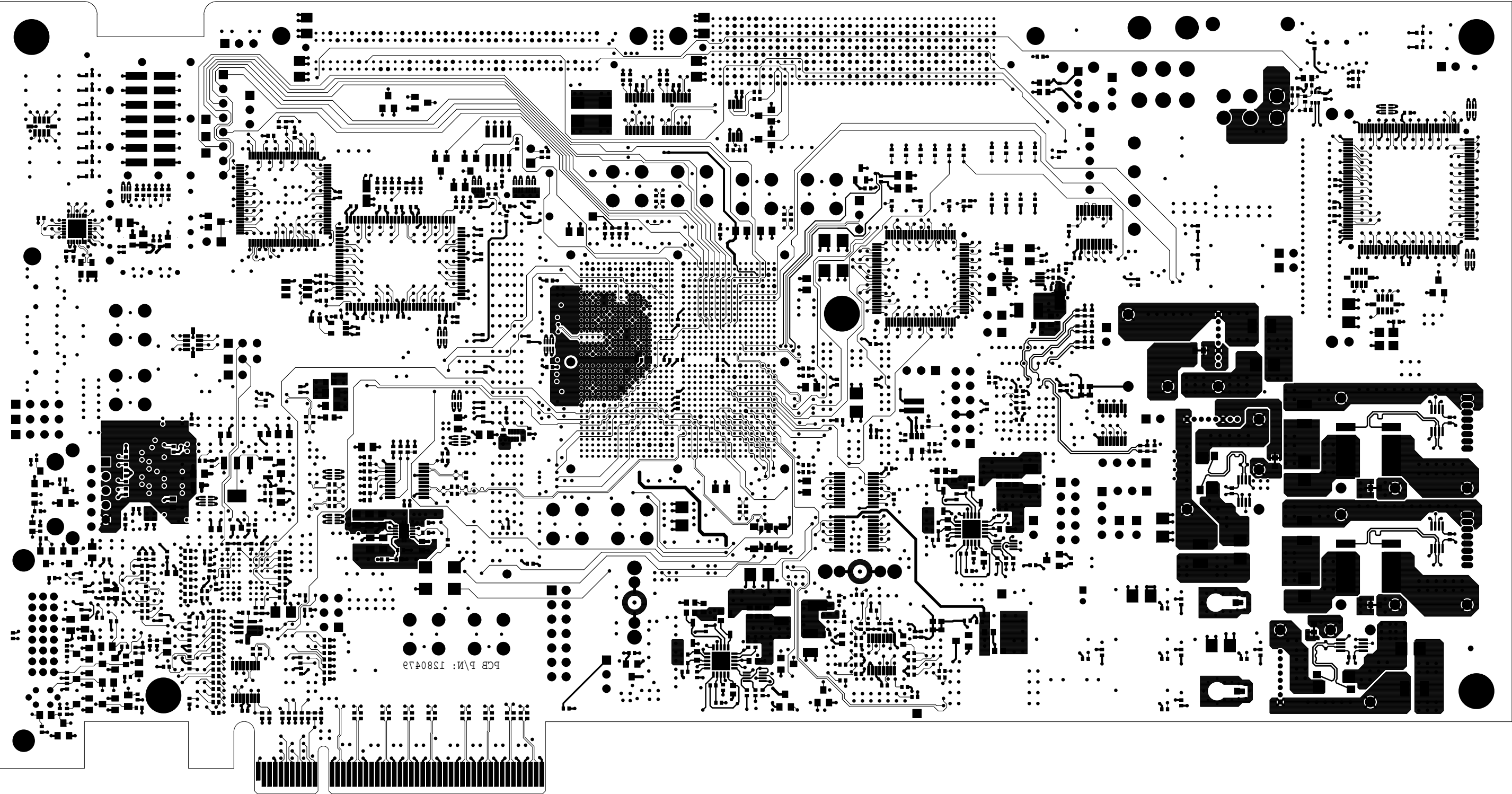
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	Layer: 13_GND6		Sheet: 13 of: 24	
	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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		Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
		Design Engineer: RICK LEBLANC		Project Name: ML605	
		Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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	Layer: 15 GND7		Sheet: 15 of: 24	
	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009			LATEST MECHANICAL REV OR DATE: respin of 4165	



PCB B\N: JS80439

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		Layer: 16_BOTTOM	Sheet: 16	of: 24	
		Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.		
		Design Engineer: RICK LEBLANC	Project Name: ML605		
		Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009			LATEST MECHANICAL REV OR DATE: respin of 4165		

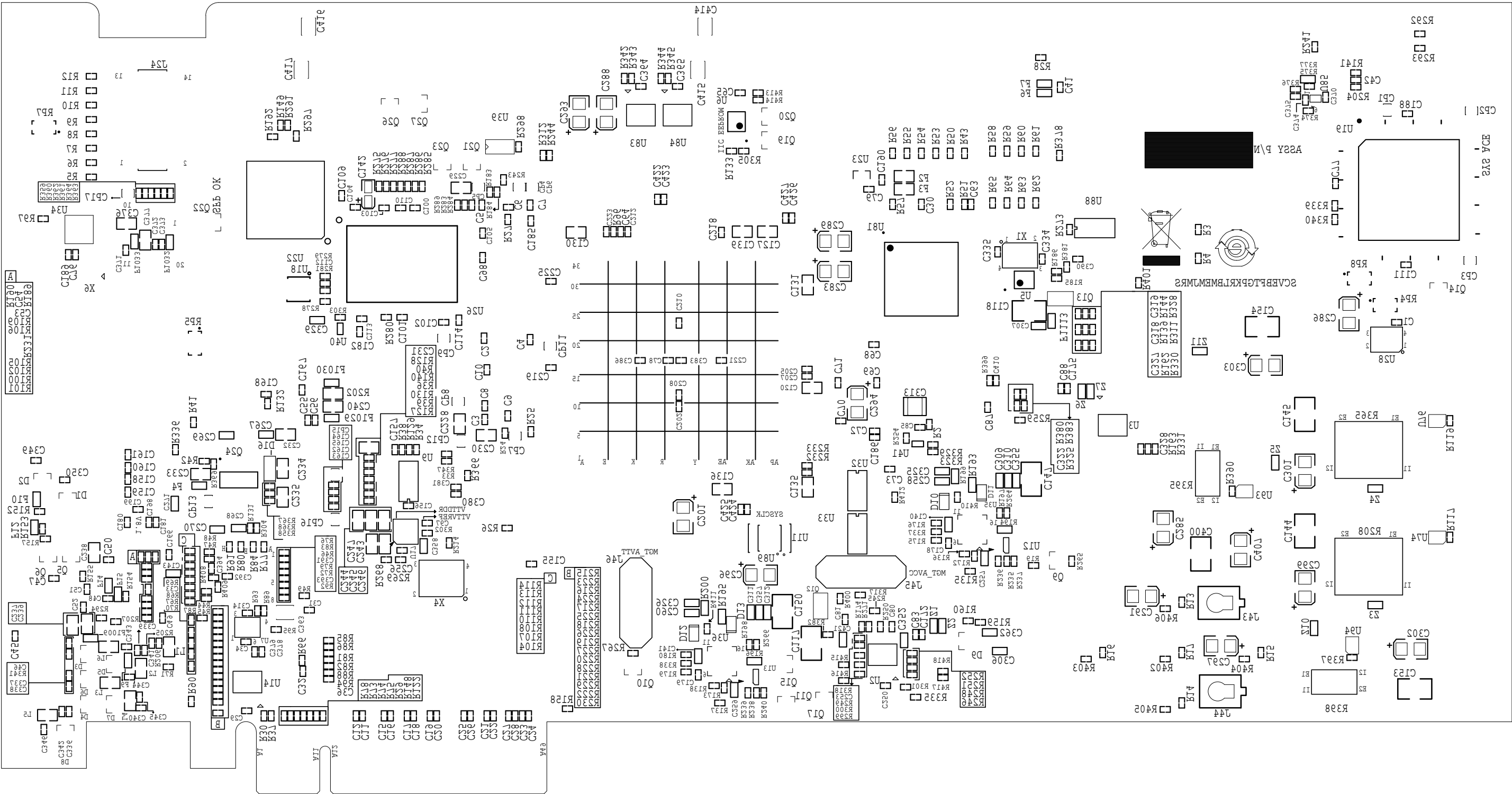


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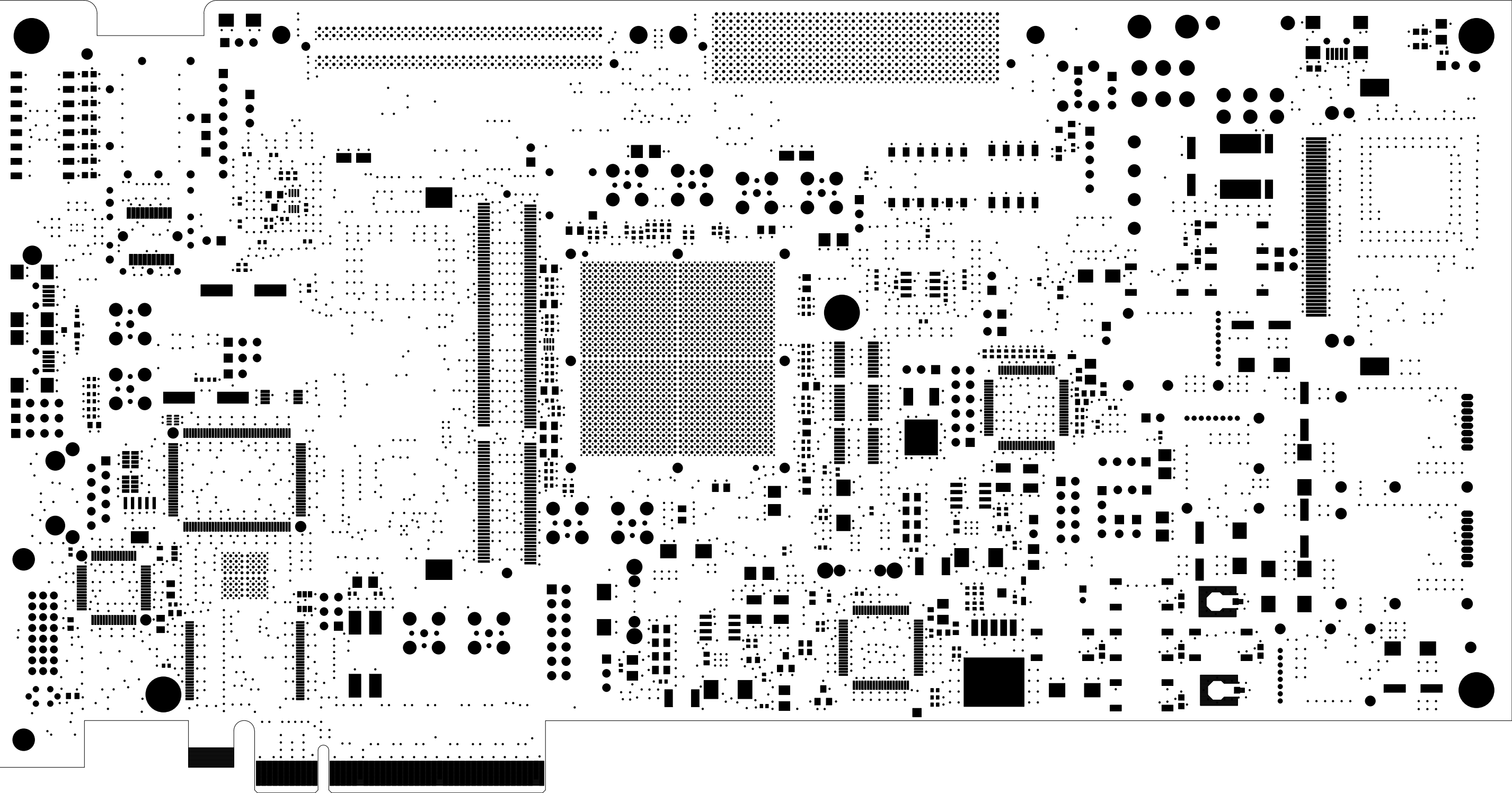
LATEST NETLIST REV OR DATE: 09.18.2009

Project Name:		ML605
Project Number:	1280479	REV. 02

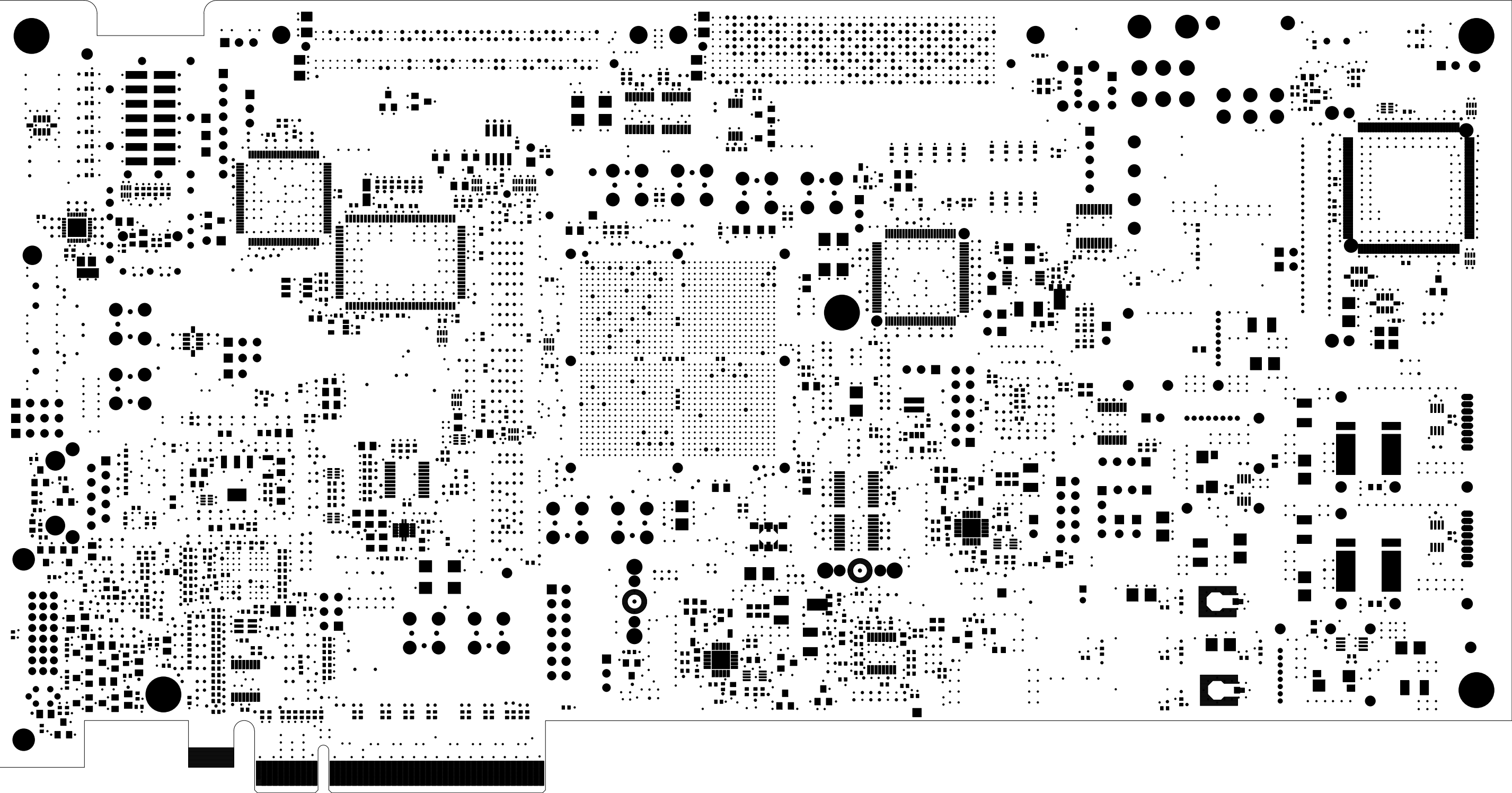
LATEST MECHANICAL REV OR DATE: respin of 4165



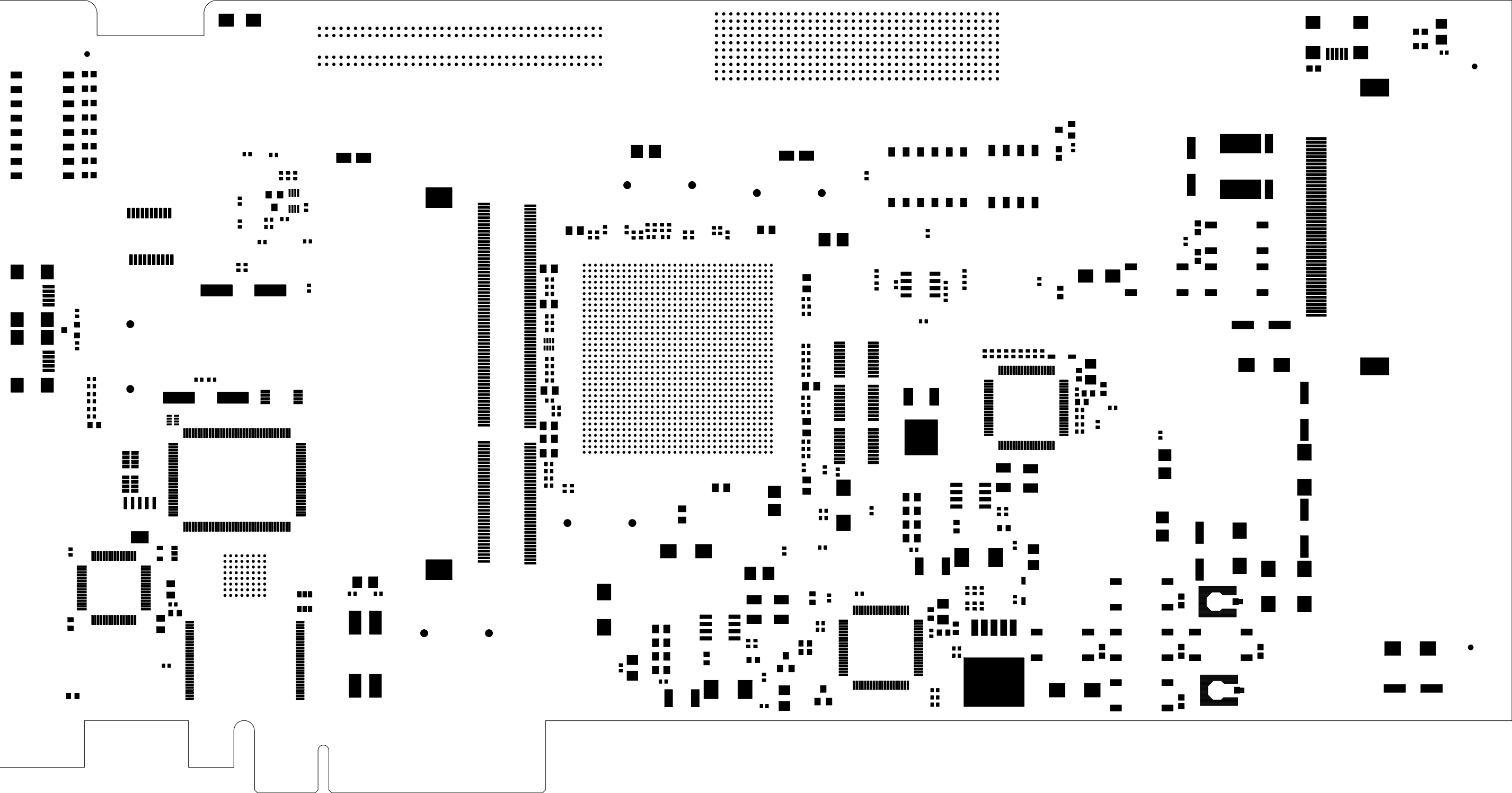
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Layer: 18_SILK_BOT		Sheet: 18		of: 24	
Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.			
Design Engineer: RICK LEBLANC		Project Name: ML605			
Whizz Job Number: 4197		Date: 09.19.2009		Project Number: 1280479	
				REV. 02	
LATEST NETLIST REV OR DATE: 09.18.2009		LATEST MECHANICAL REV OR DATE: respin of 4165			



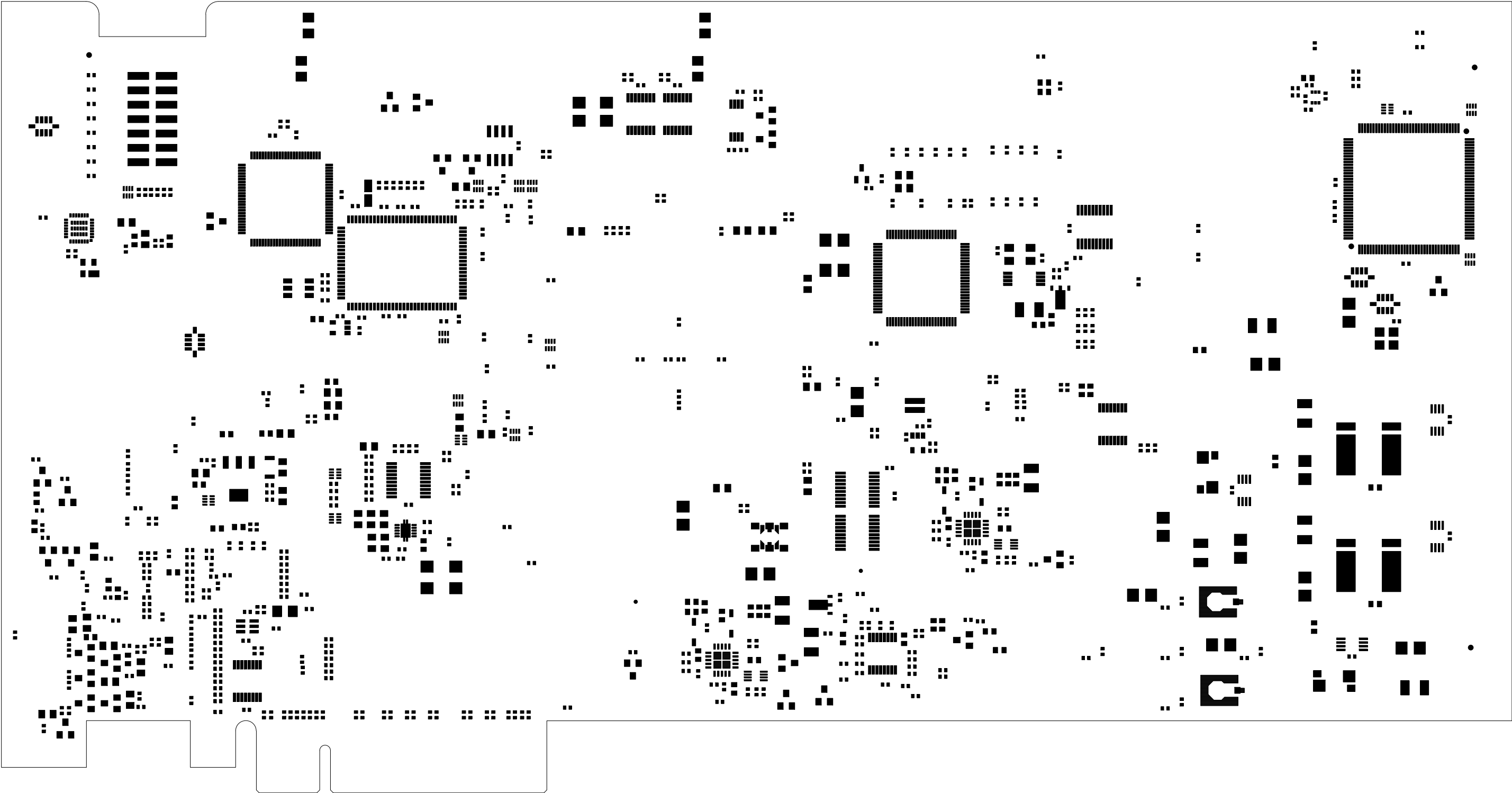
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	Layer: 19 SMASK TOP		Sheet: 19	of: 24
	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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	Layer: 20_SMASK_BOT		Sheet: 20	of: 24
	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
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	Layer: 21 PMASK TOP	Sheet: 21	of: 24
	Layout Engineer: FAROOQ BHATTI	Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC	Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479
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	Layer: 22_PMASK_BOT		Sheet: 22	of: 24
	Layout Engineer: FAROOQ BHATTI		Company Name: XILINX INC.	
	Design Engineer: RICK LEBLANC		Project Name: ML605	
	Whizz Job Number: 4197	Date: 09.19.2009	Project Number: 1280479	REV. 02
LATEST NETLIST REV OR DATE: 09.18.2009			LATEST MECHANICAL REV OR DATE: respin of 4165	



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1280479	02

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