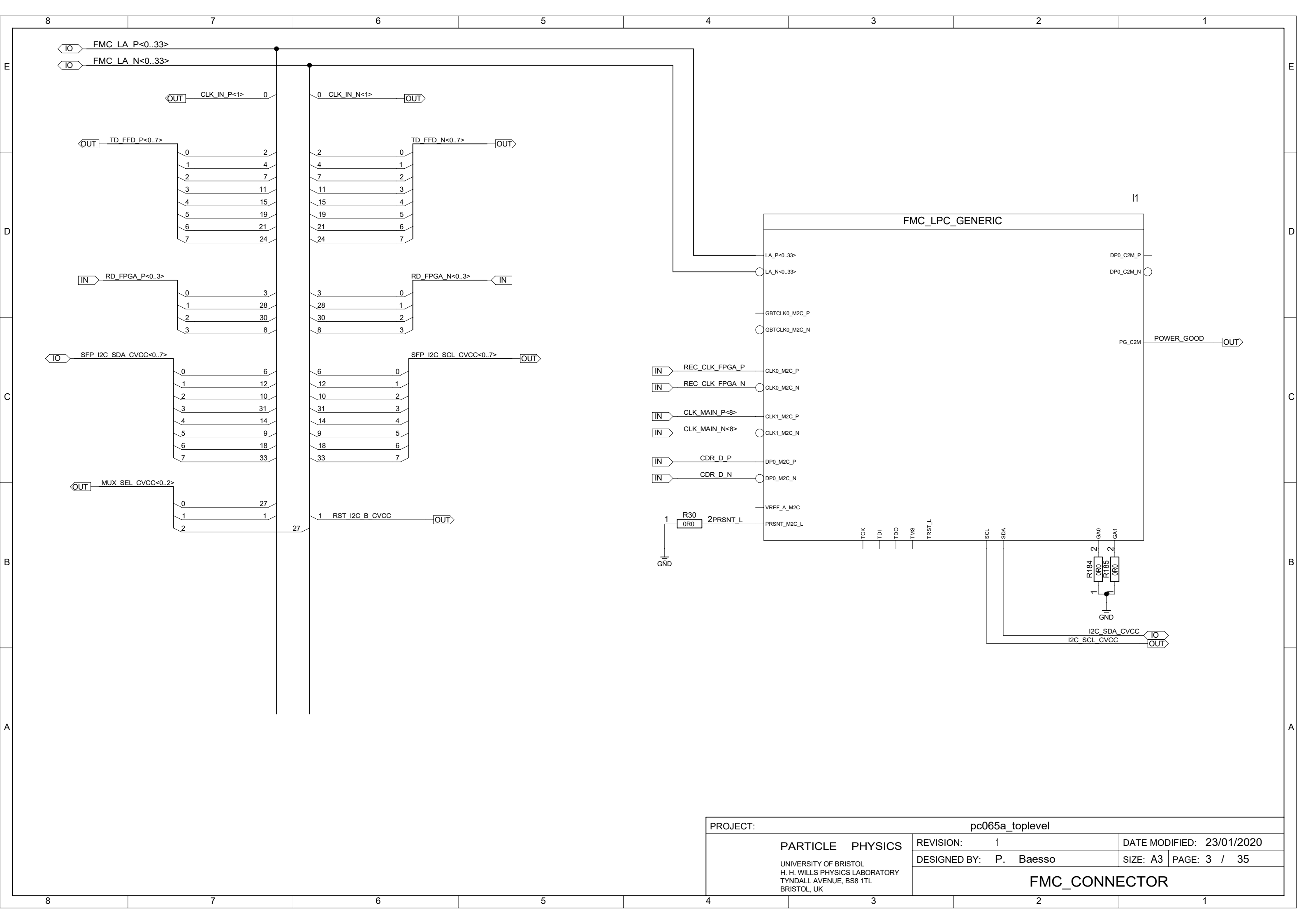


PROJECT:		pc065a_toplevel		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 2 / 35
	POWER			



PROJECT:		pc065a_toplevel		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		REVISION:	1	DATE MODIFIED: 23/01/2020
		DESIGNED BY:	P. Baesso	SIZE: A3 PAGE: 3 / 35
		FMC_CONNECTOR		

Diagram of a 4x4 grid of 16 cells. The grid is labeled with 'SFP' and a number in the top right corner. The grid contains various symbols and labels:

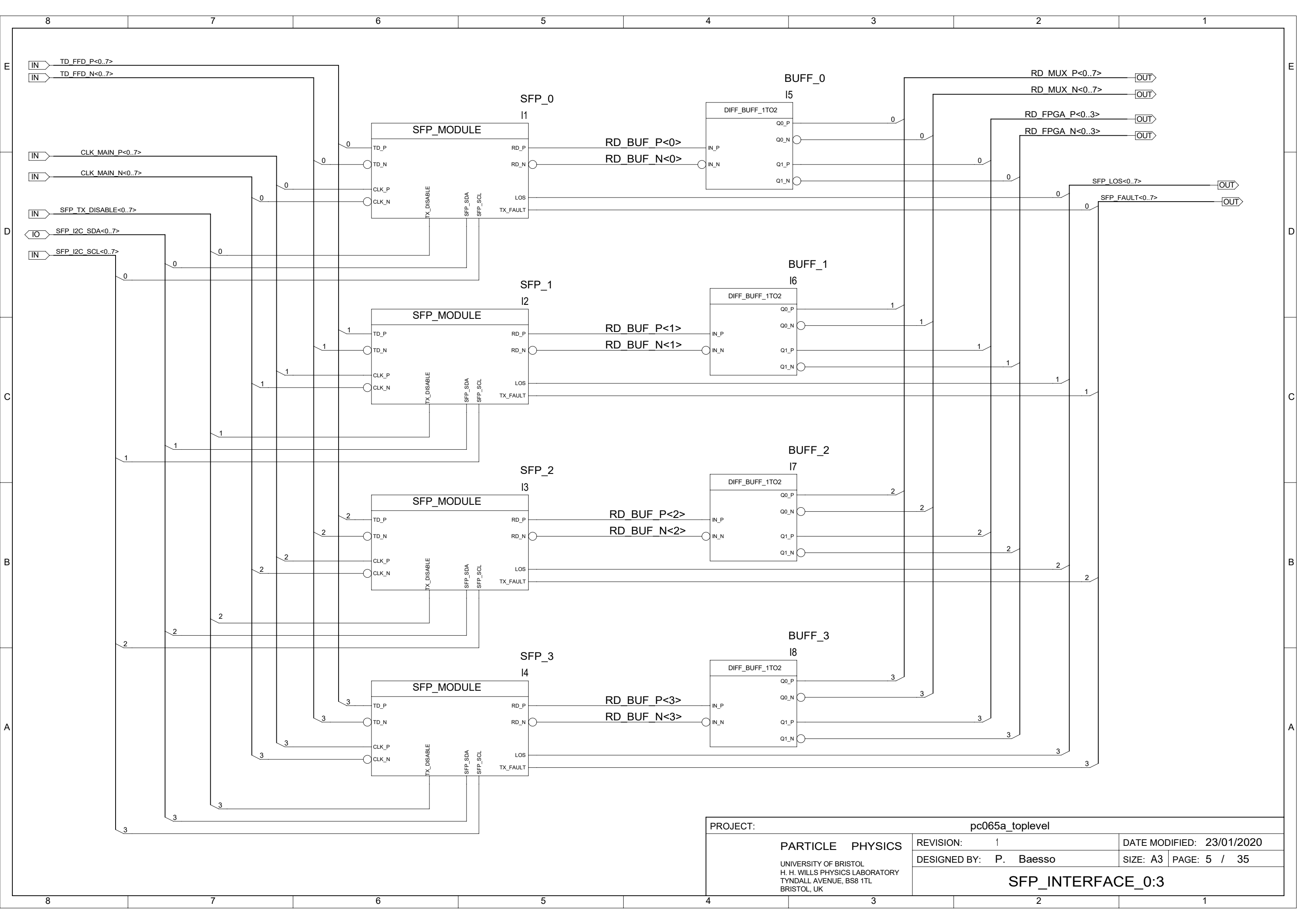
- Top right corner: SFP 2007132
- Row 1: Empty, Empty, Empty, SFP1
- Row 2: Empty, Empty, Empty, Empty
- Row 3: Empty, Empty, Empty, Empty
- Row 4: Empty, Empty, Empty, SFP2
- Row 5: Empty, Empty, Empty, Empty
- Row 6: Empty, Empty, Empty, Empty
- Row 7: Empty, Empty, Empty, SFP3
- Row 8: Empty, Empty, Empty, Empty
- Row 9: Empty, Empty, Empty, SFP4
- Row 10: Empty, Empty, Empty, Empty

Diagram of a 4x4 grid of 16 cells. The grid is labeled 'SFP2' and '2007132' at the top. The cells contain various symbols and labels:

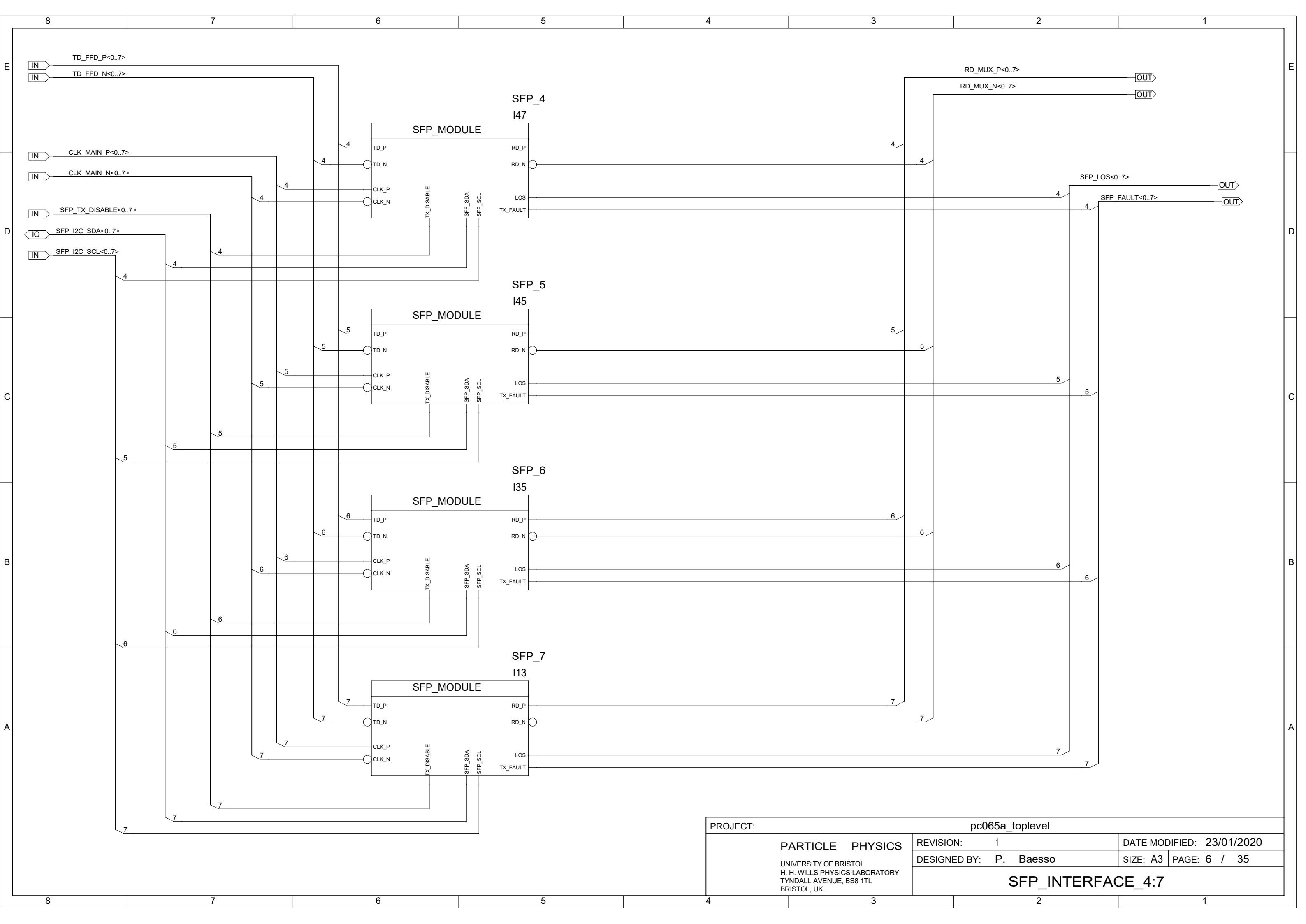
- Row 1: Empty, Empty, Empty, Empty
- Row 2: Empty, Empty, Empty, Empty
- Row 3: Empty, Empty, Empty, Empty
- Row 4: Empty, Empty, Empty, Empty

Labels 'SFP1', 'SFP2', 'SFP3', and 'SFP4' are placed next to specific cells in the grid.

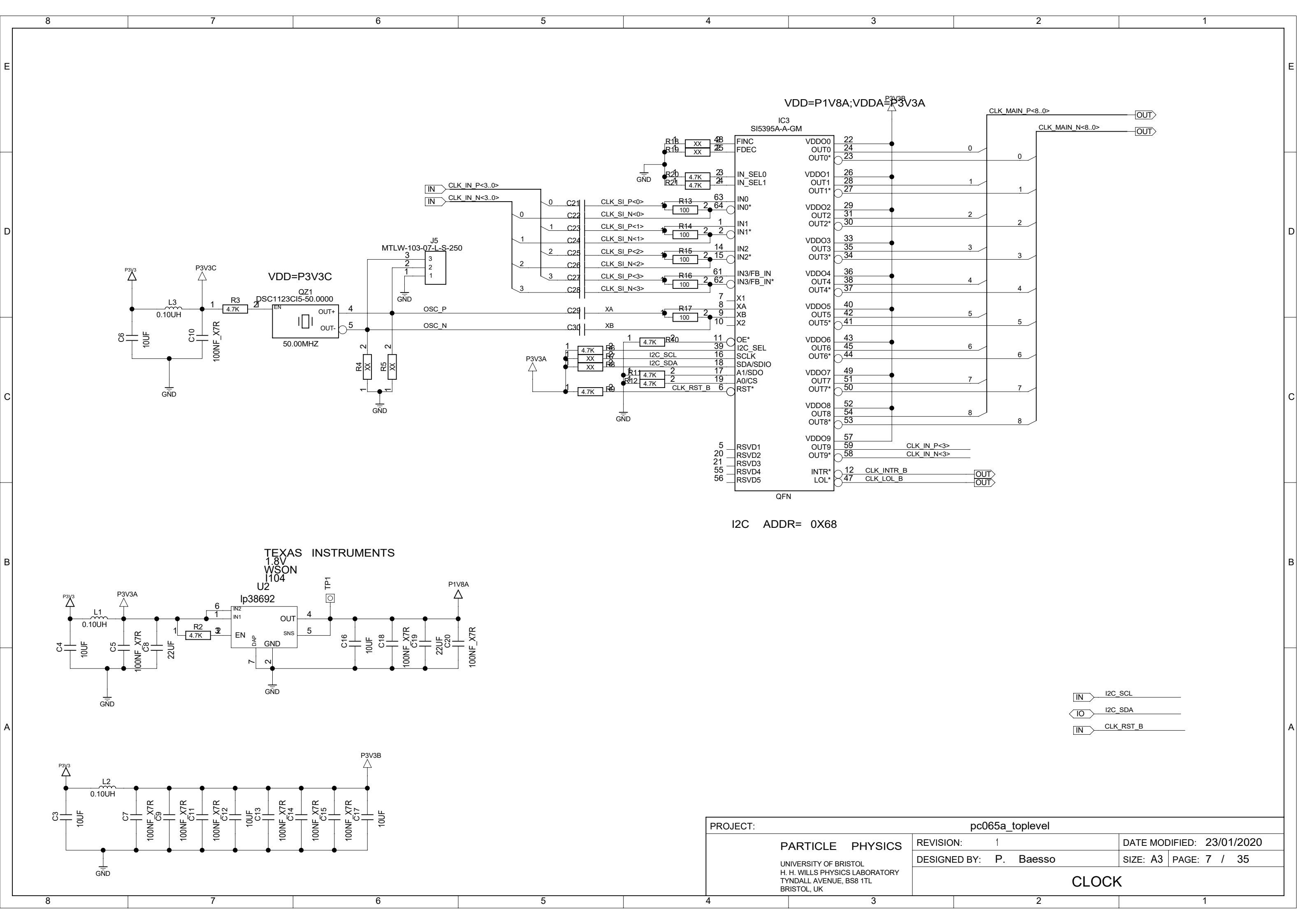
PROJECT:		pc065a_toplevel			
<b>PARTICLE PHYSICS</b>  UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020		
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 4 / 35	
	SFP_CONNECTORS				



PROJECT:		pc065a_toplevel		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 5 / 35
	SFP_INTERFACE_0:3			

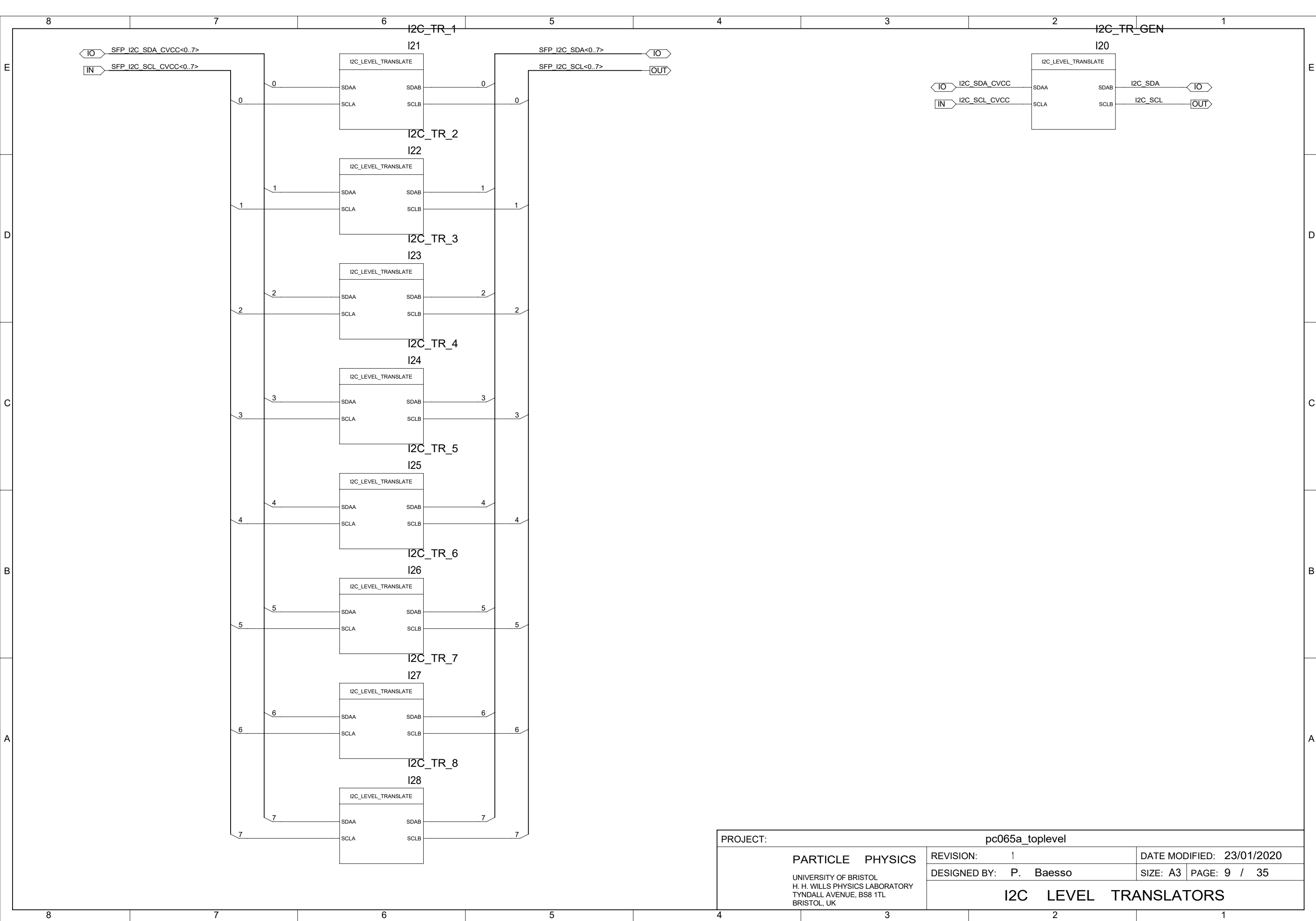


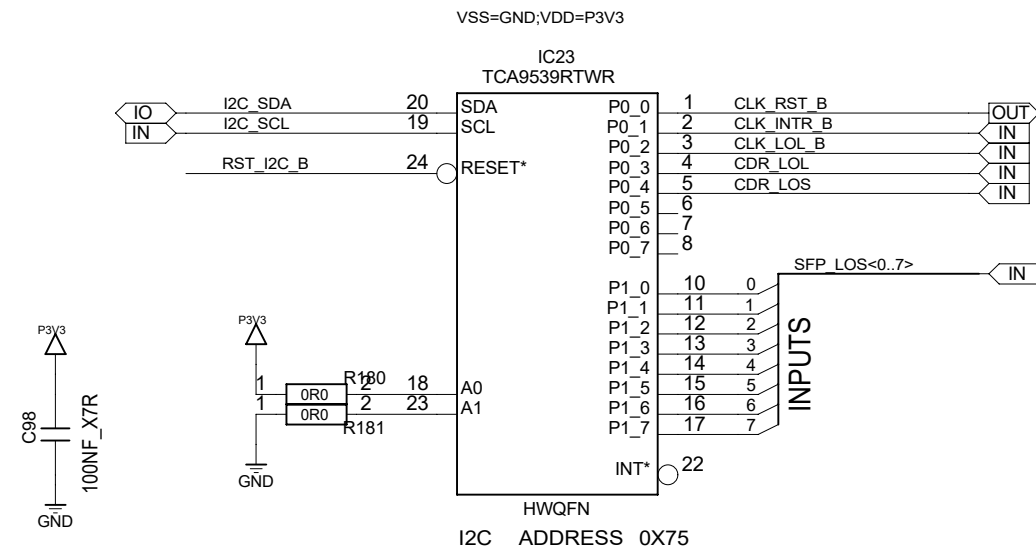
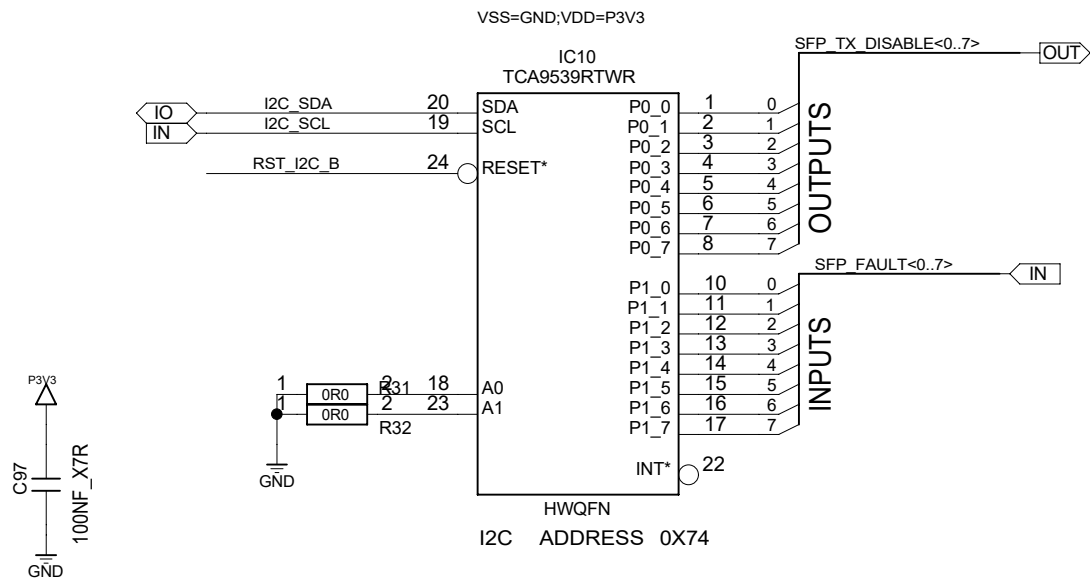
PROJECT:		pc065a_toplevel	
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020
	DESIGNED BY:	P. Baesso	SIZE: A3 PAGE: 6 / 35
	SFP_INTERFACE_4:7		









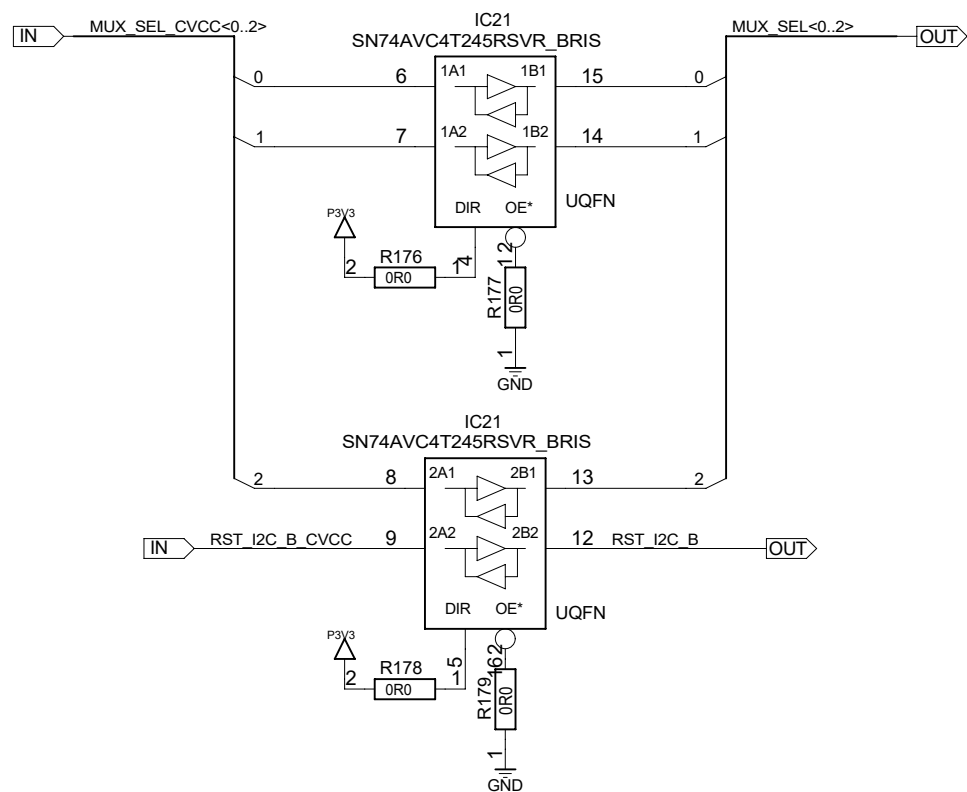


CHECK PINOUT AND FOOTPRINT!

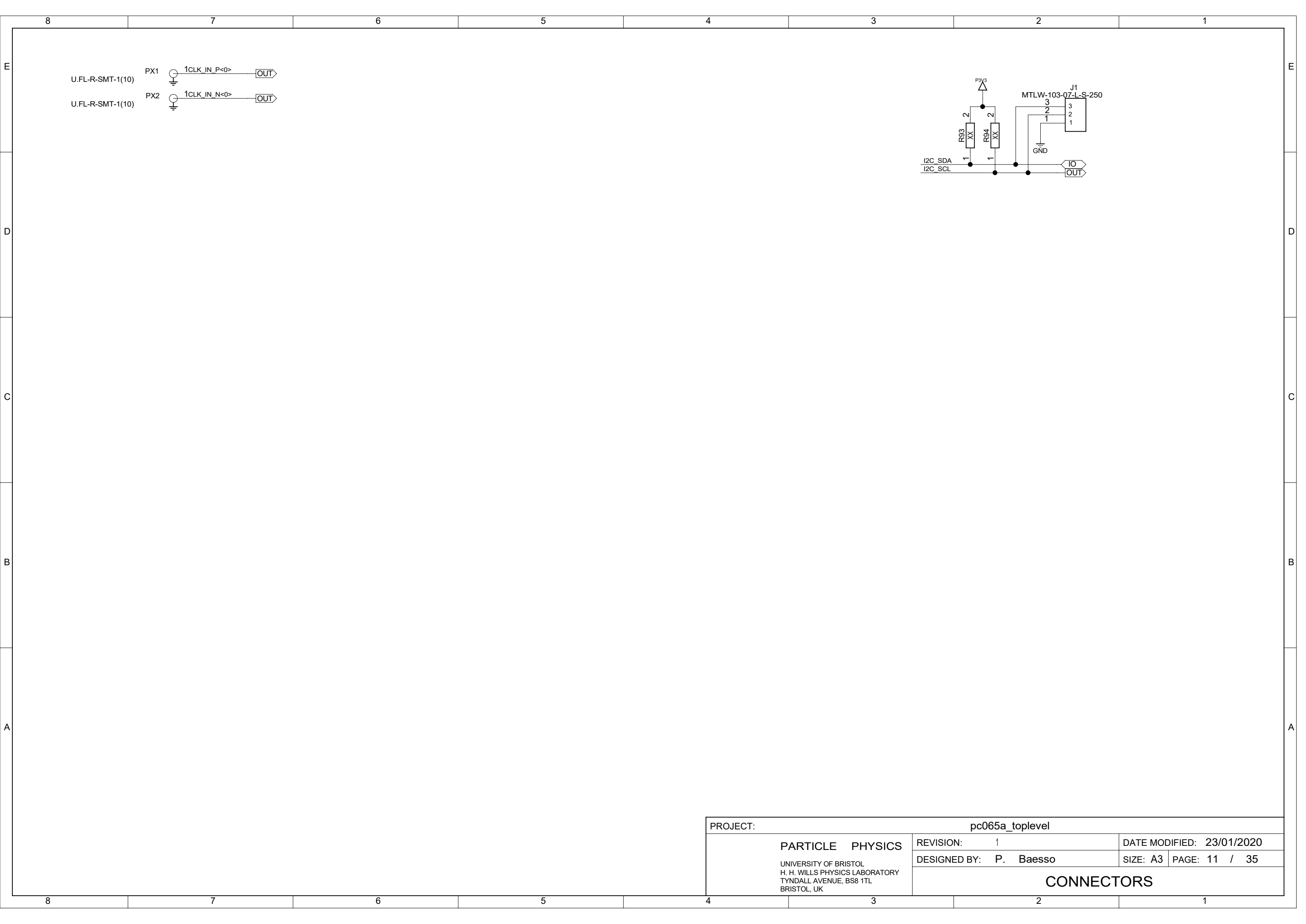
DIR LOW: B >>> A

DIR HIGH: A >> B

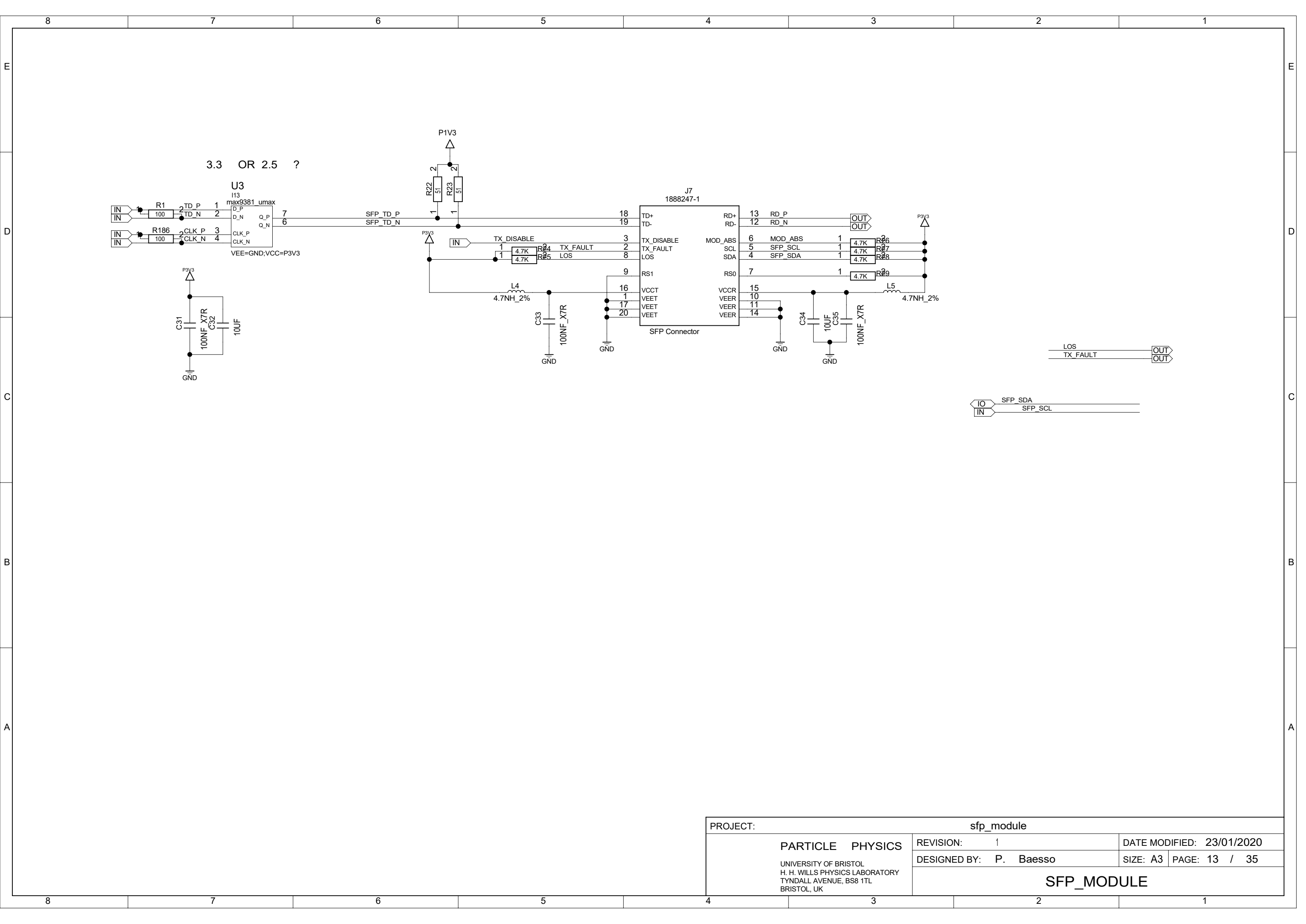
VCCA=P2V5;VCCB=P3V3



PROJECT: pc065a_toplevel		REVISION: 1		DATE MODIFIED: 23/01/2020	
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		DESIGNED BY: P. Baesso		SIZE: A3	PAGE: 10 / 35
		LEVEL TRANSLATORS			



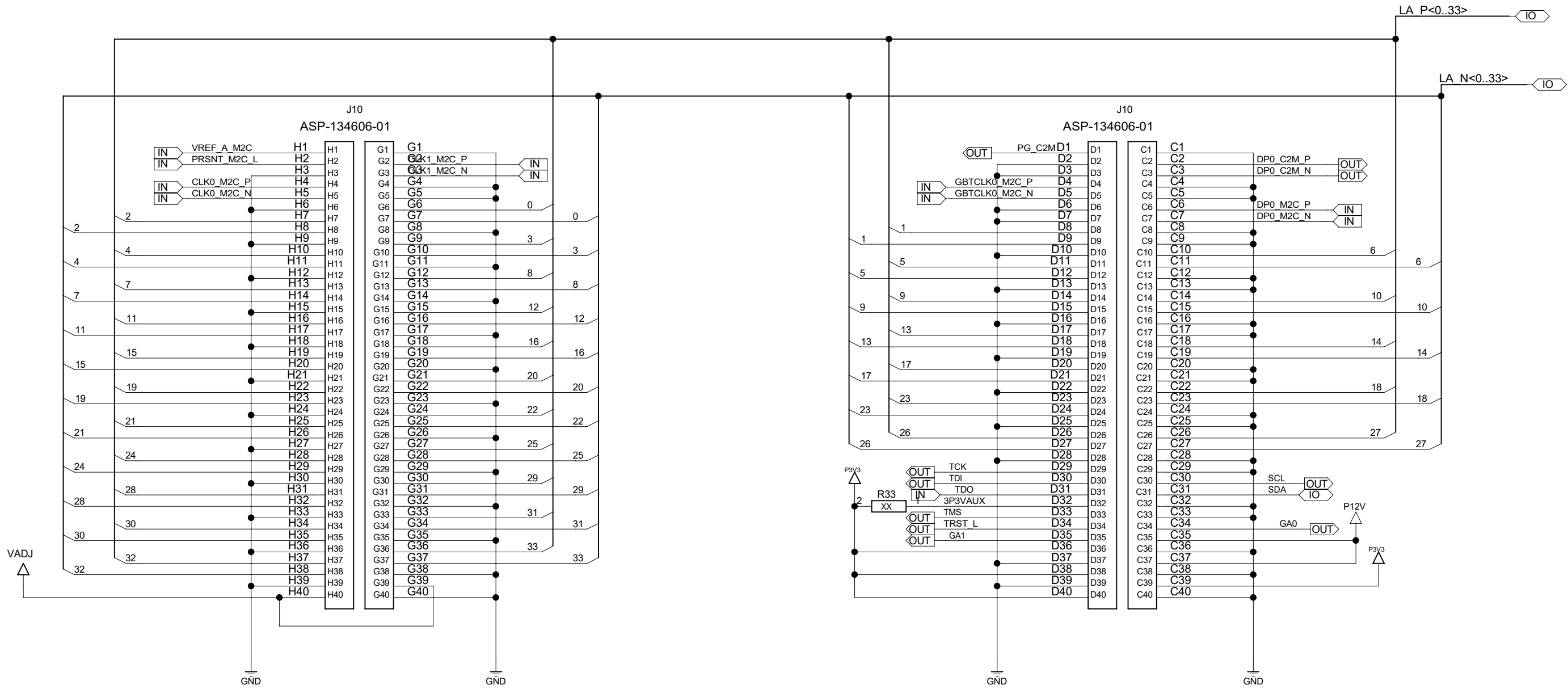




PROJECT:		sfp_module		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 13 / 35
	SFP_MODULE			

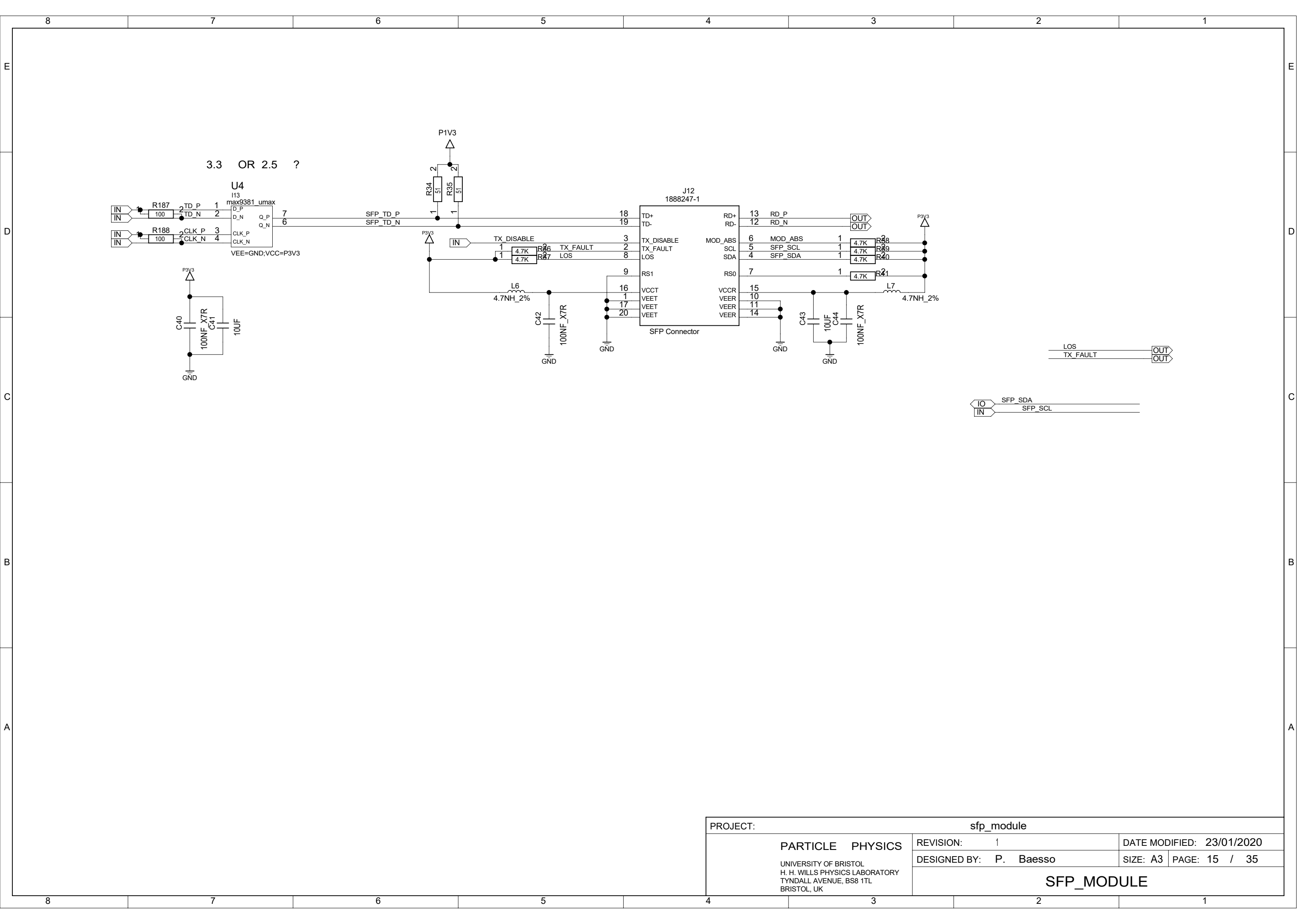
IN: A SIGNAL THAT WILL ENTER THIS BLOCK FROM THE PCB TO BE ROUTED TO THE MEZZANINE (EXAMPLE: DP0\_M2C)  
OUT: A SIGNAL FROM THIS BLOCK TO THE PCB (EXAMPLE SCL: IT IS RECEIVED FROM THE CARRIER AND GOES TO THE MEZZANINE)

ANY \*M2C IS AN INPUT FOR THIS BLOCK  
ANY \*C2M IS AN OUTPUT FOR THIS BLOCK



FOR FMC CONNECTOR USE:  
ASP-134604-01 (LPC) FOR 10 MM MATING HEIGHT  
ASP-134606-01 (LPC) FOR 8.5 MM MATING HEIGHT

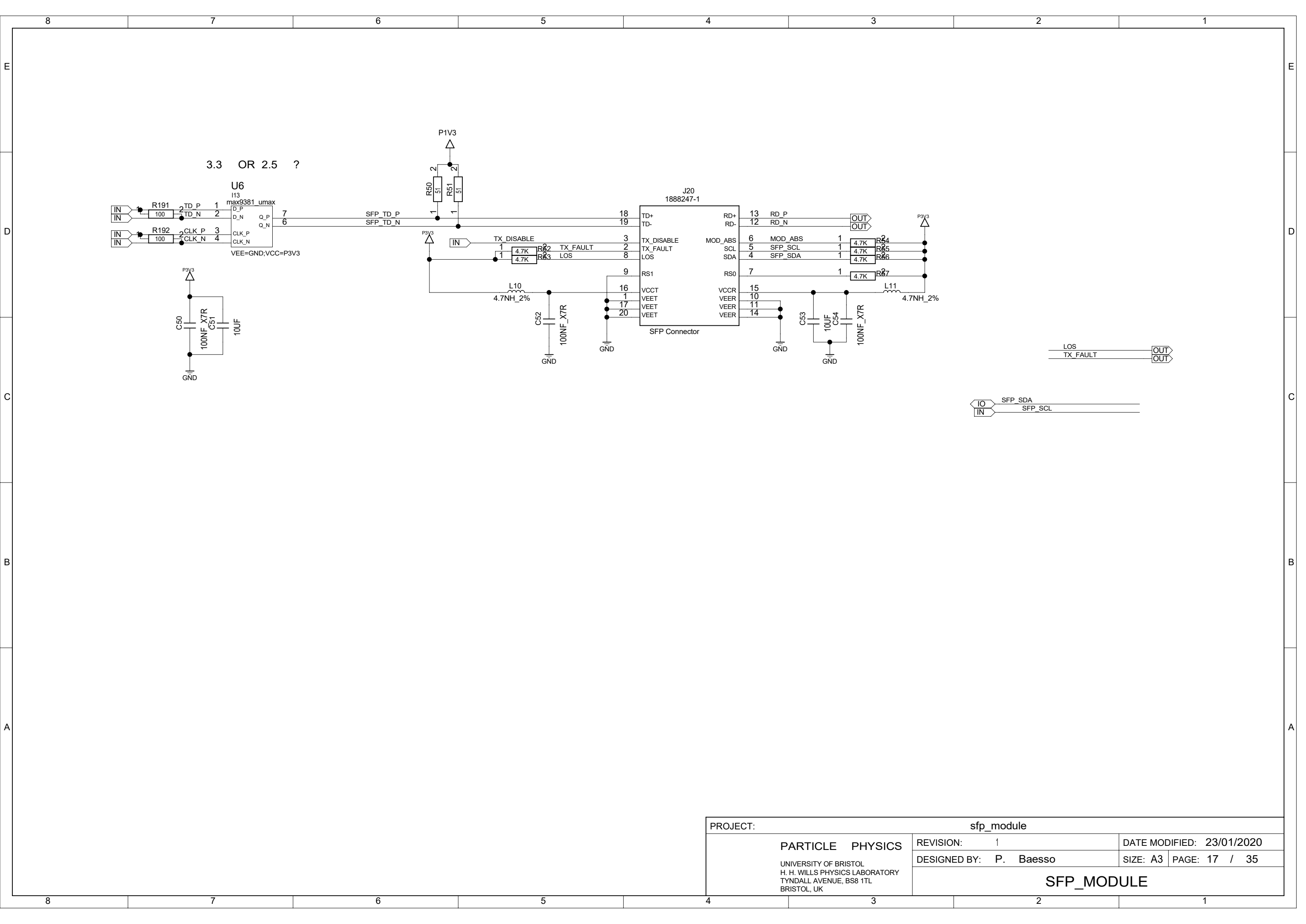
PROJECT:		fmc_lpc_generic		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		REVISION:	1	DATE MODIFIED: 23/01/2020
		DESIGNED BY:	P. Baesso	SIZE: A3 PAGE: 14 / 35
		FMC_LPC_GENERIC		



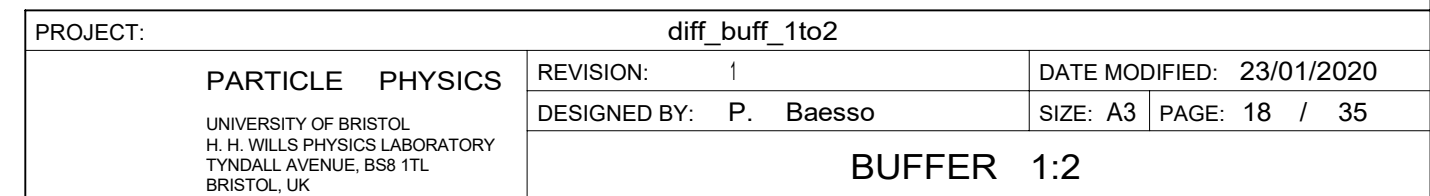
PROJECT:		sfp_module		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 15 / 35
	SFP_MODULE			

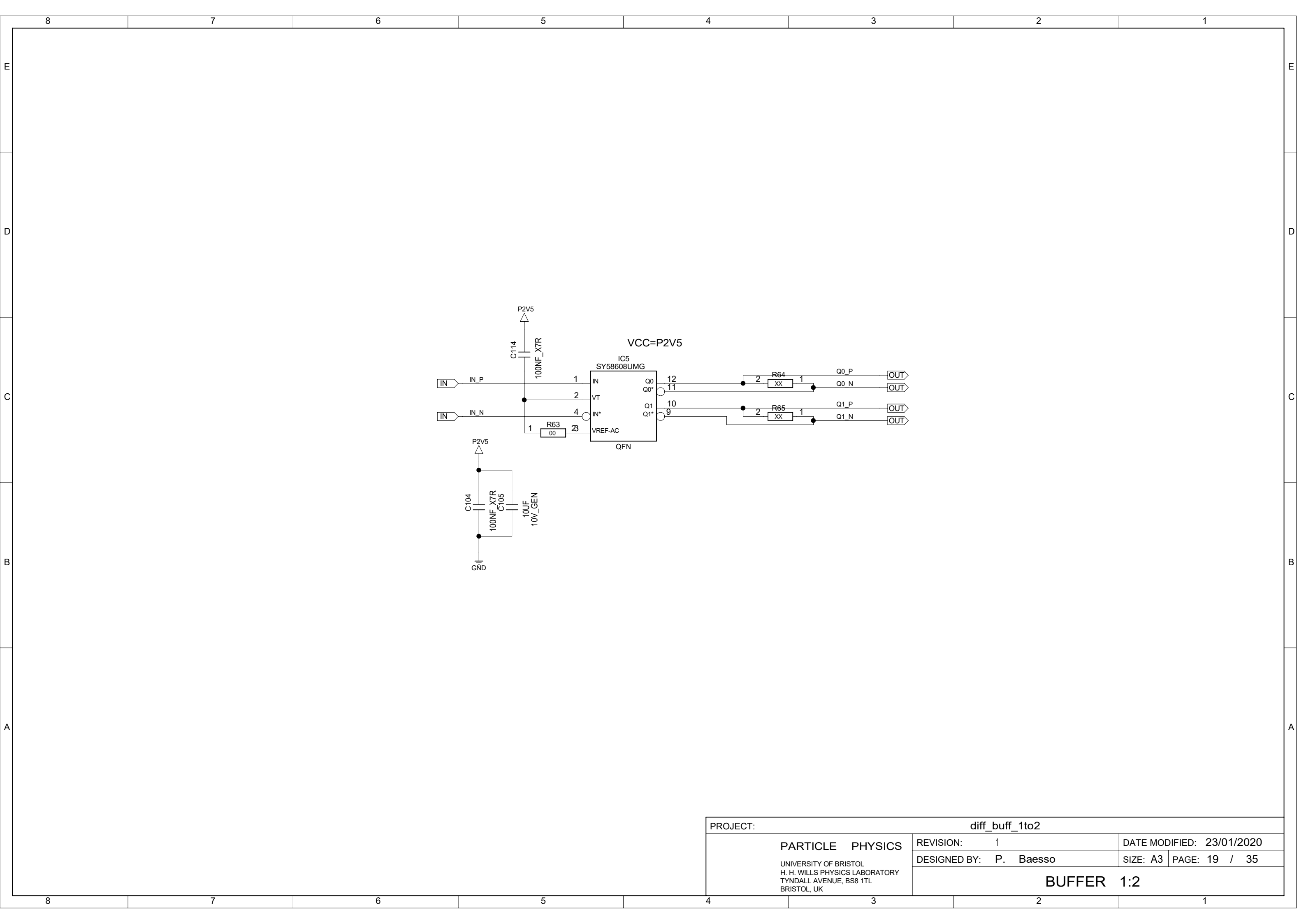




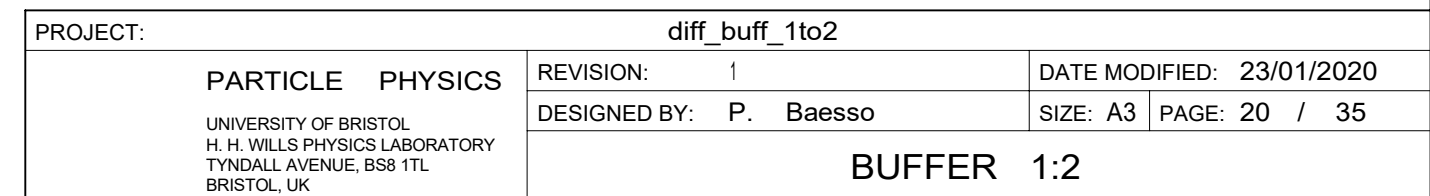


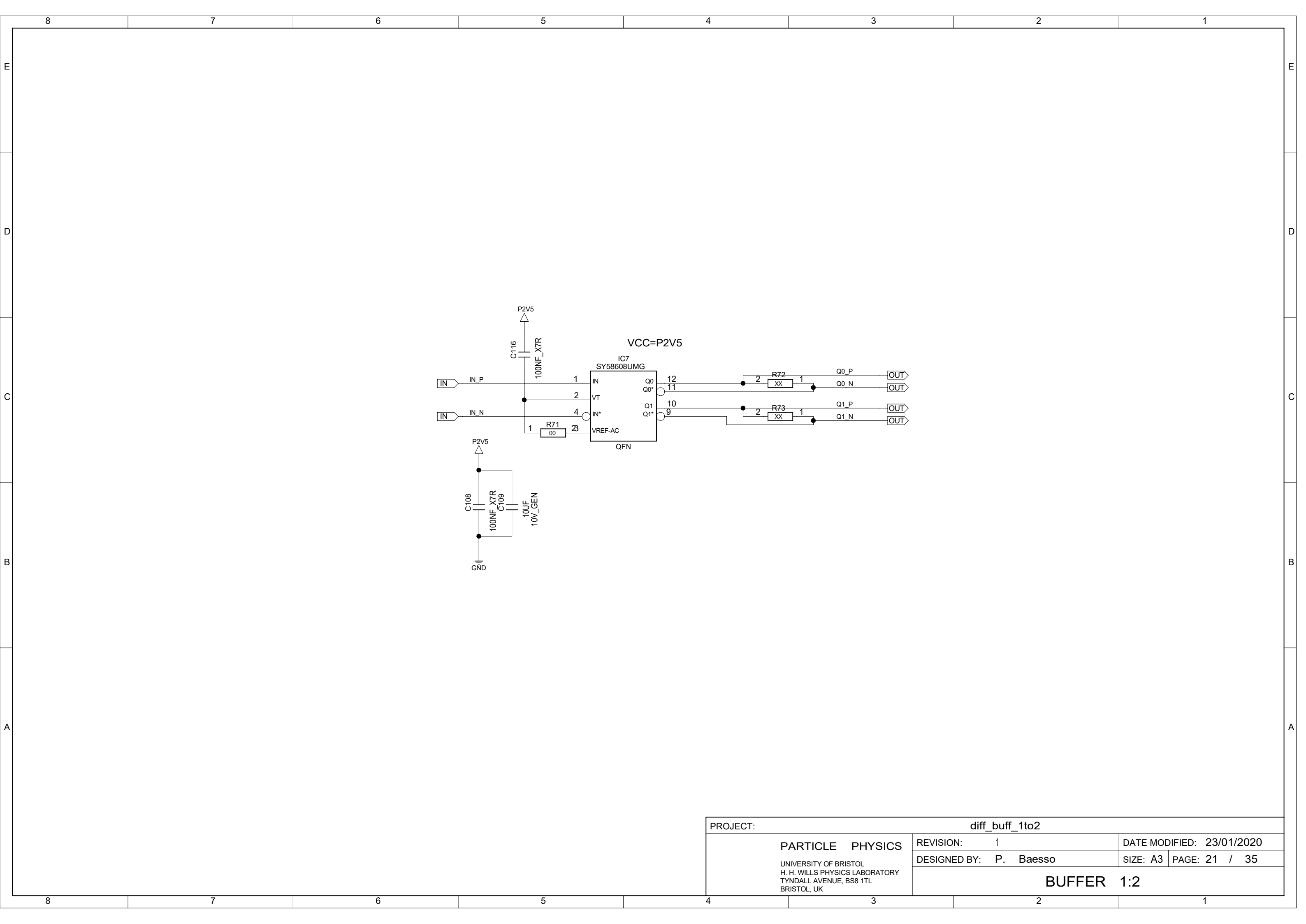
PROJECT:		sfp_module		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 17 / 35
	SFP_MODULE			





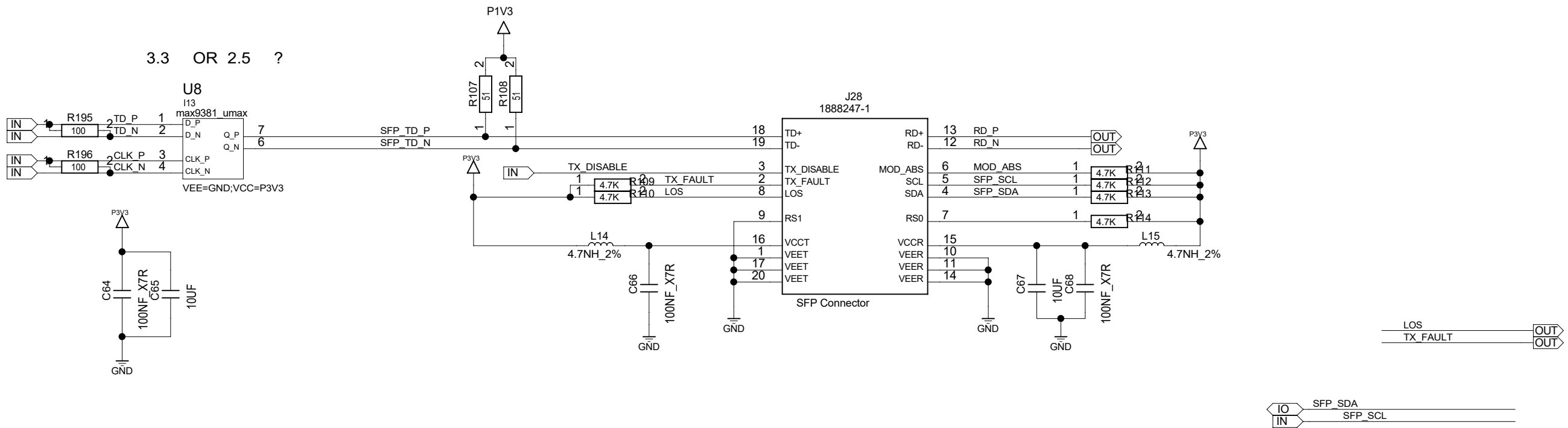
PROJECT:		diff_buff_1to2		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 19 / 35
	BUFFER 1:2			



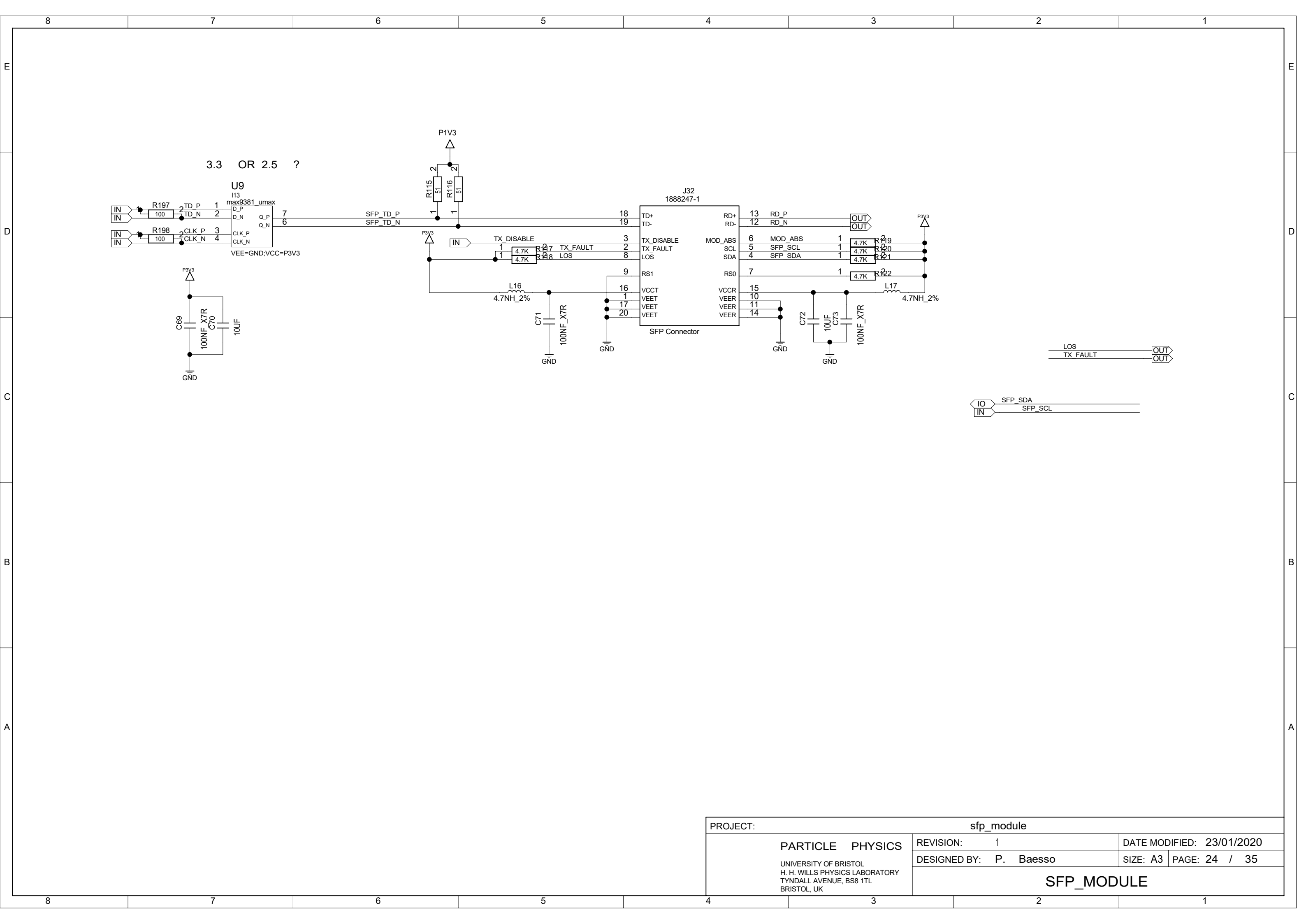


PROJECT:		diff_buff_1to2		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 21 / 35
	BUFFER 1:2			



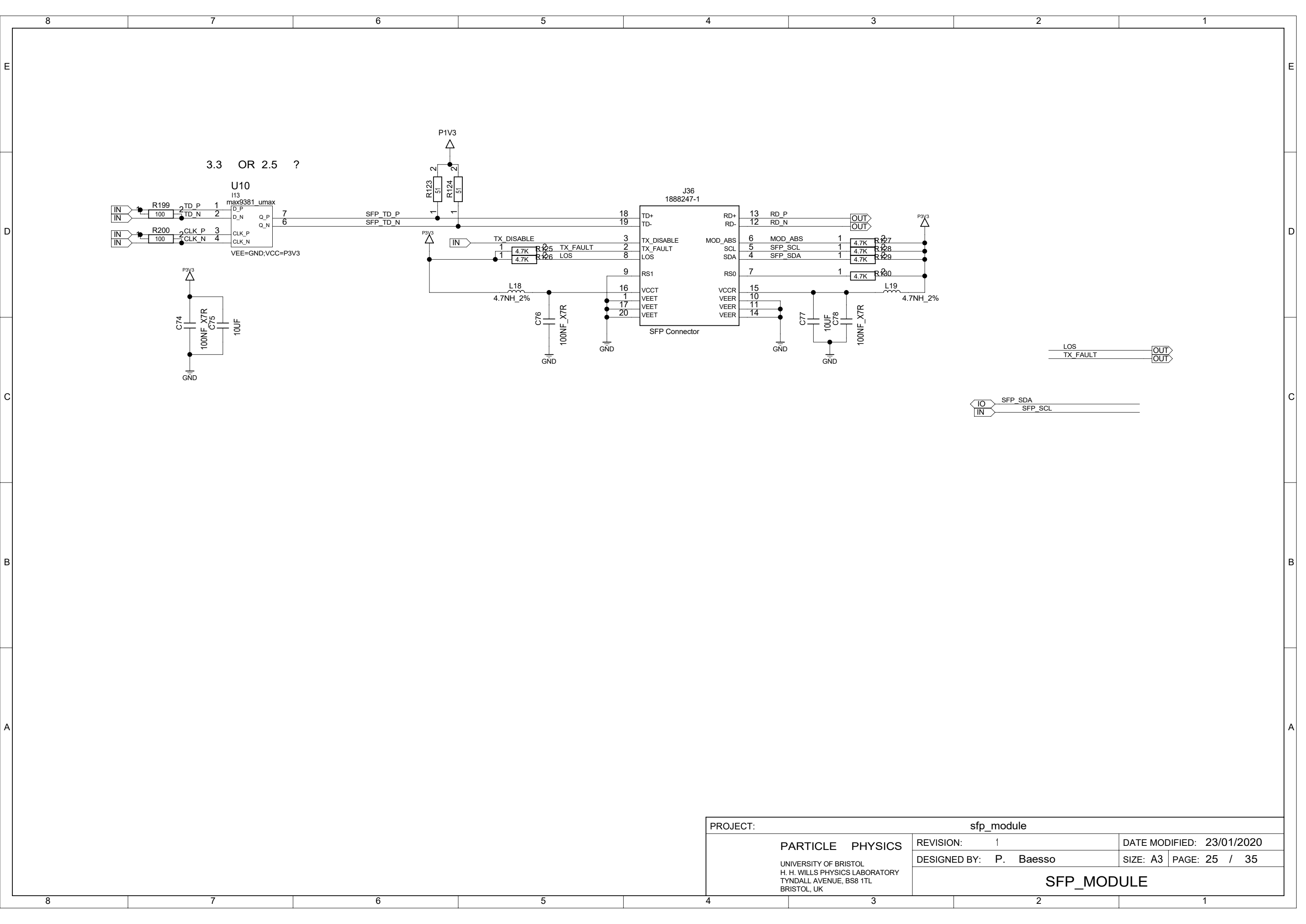


PROJECT:		sfp_module		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		REVISION:	1	DATE MODIFIED: 23/01/2020
		DESIGNED BY:	P. Baesso	SIZE: A3 PAGE: 23 / 35
		SFP_MODULE		

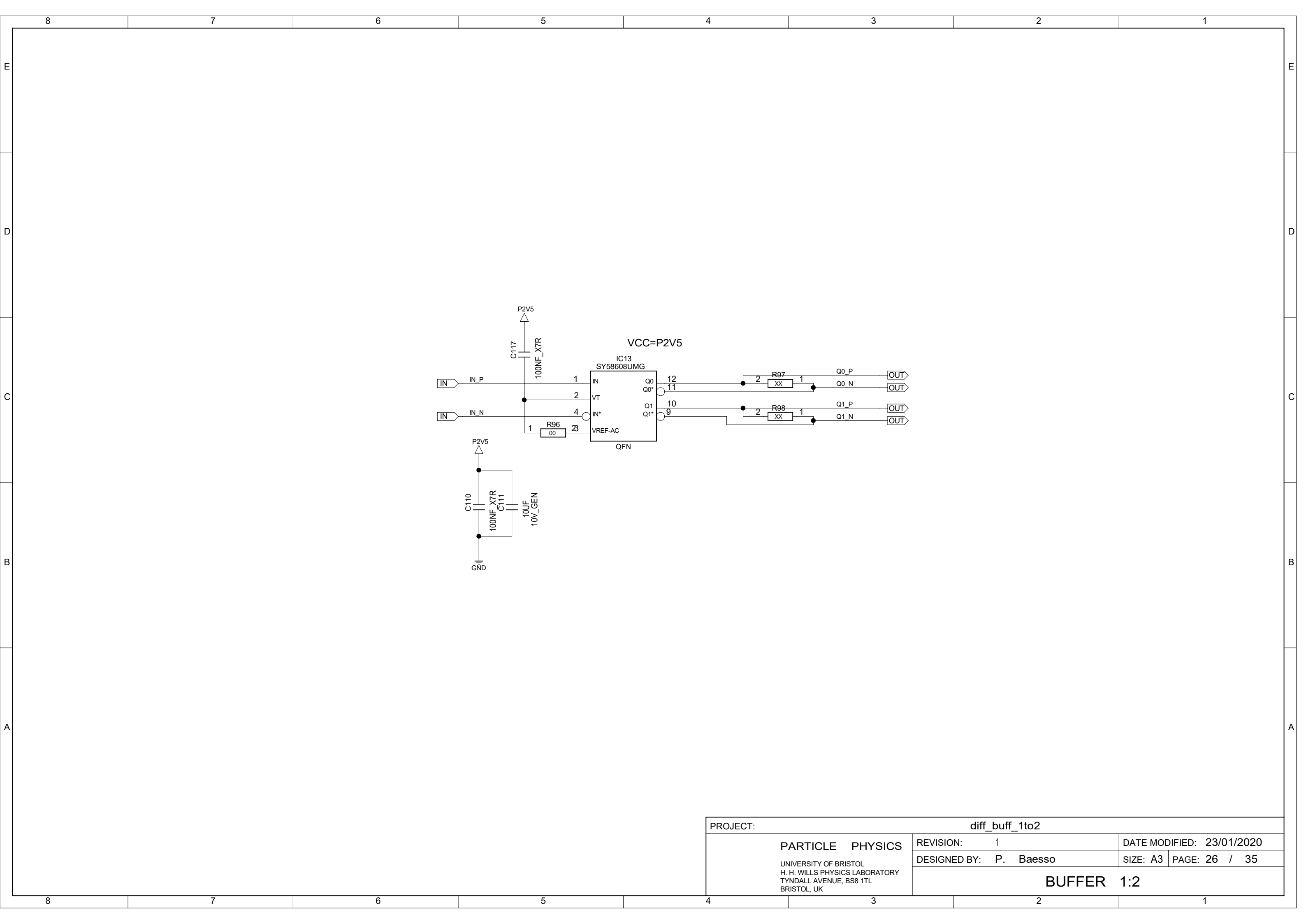


PROJECT:		sfp_module		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 24 / 35
	SFP_MODULE			

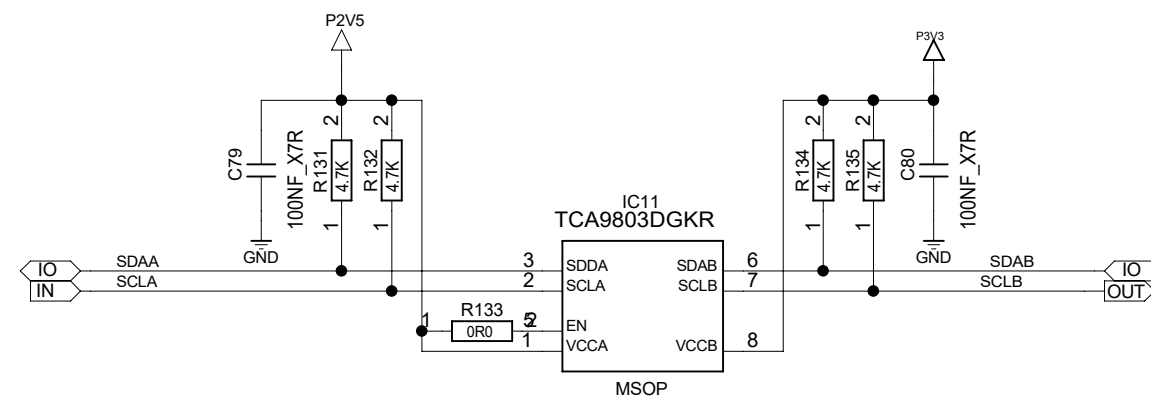




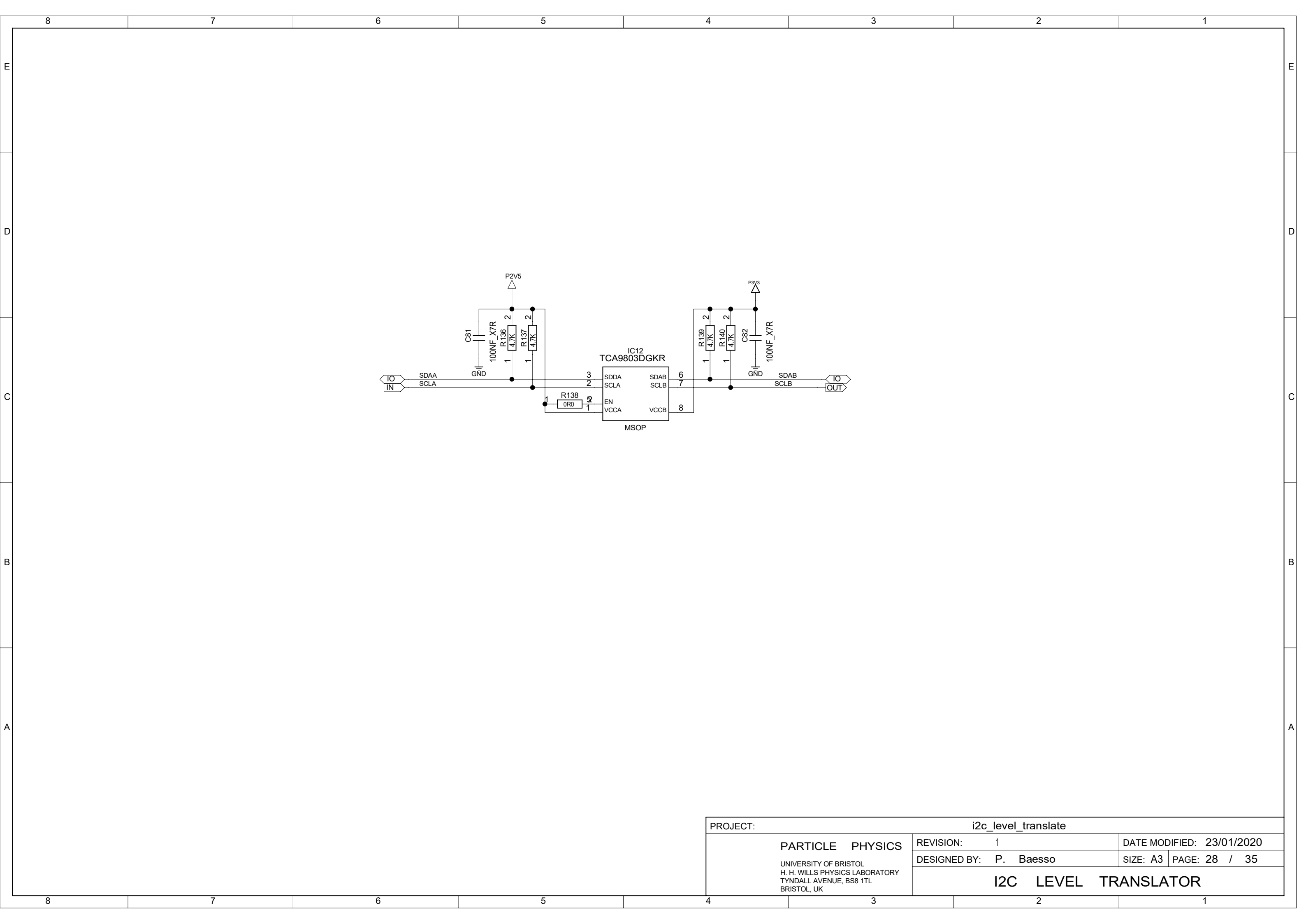
PROJECT:		sfp_module		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		REVISION:	1	DATE MODIFIED: 23/01/2020
		DESIGNED BY:	P. Baesso	SIZE: A3 PAGE: 25 / 35
		SFP_MODULE		

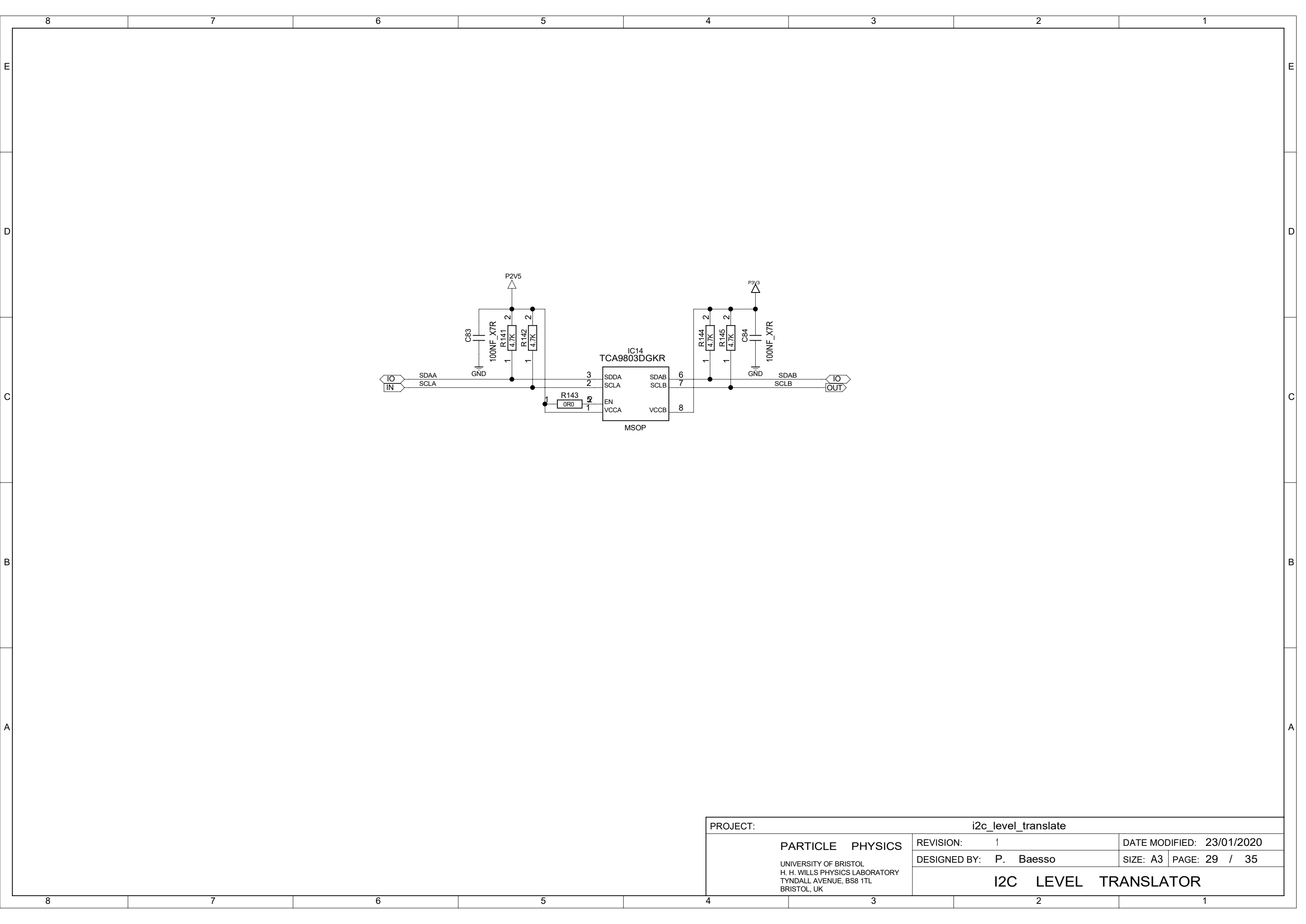


PROJECT:		diff_buff_1to2		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 26 / 35
	BUFFER 1:2			

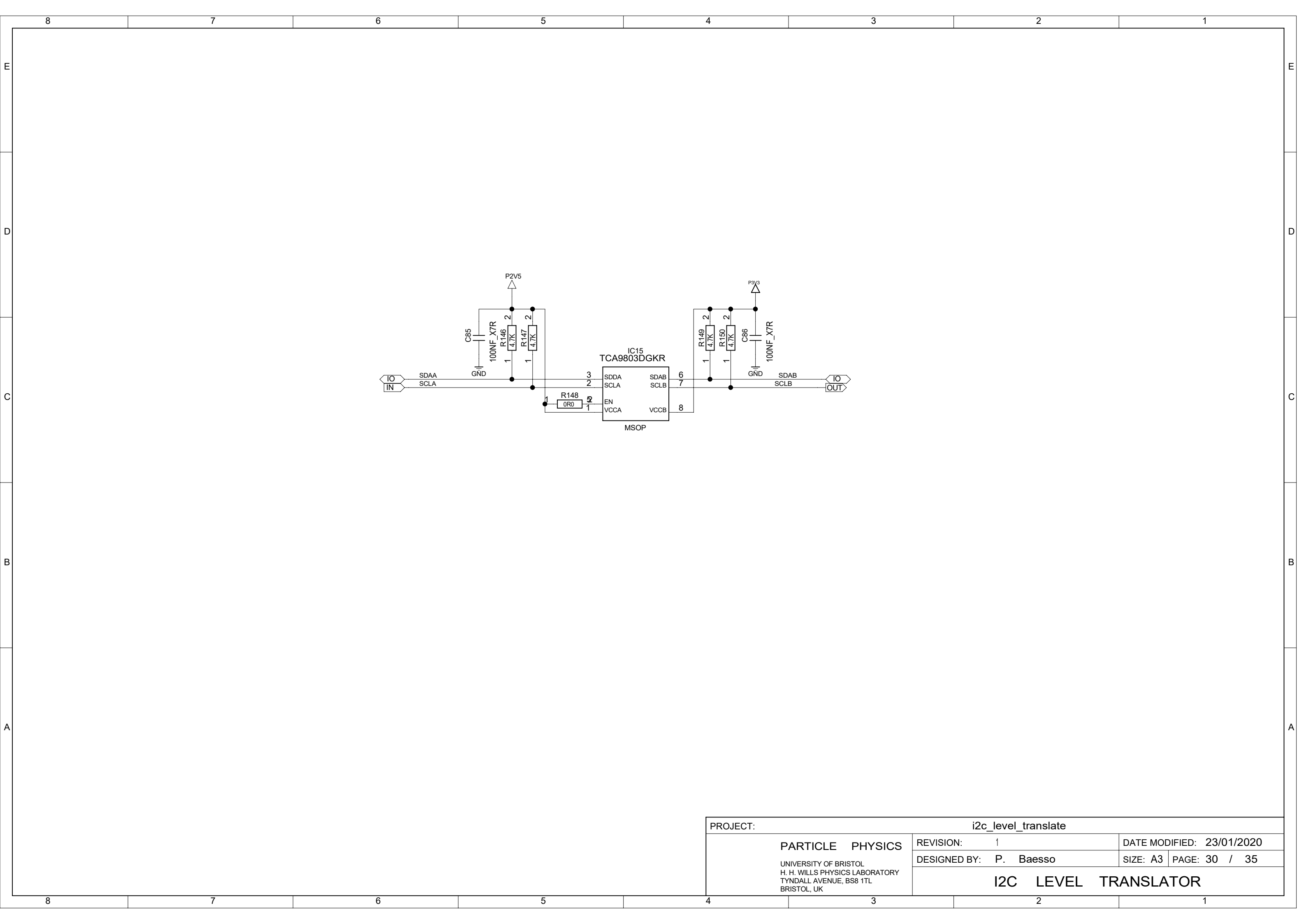


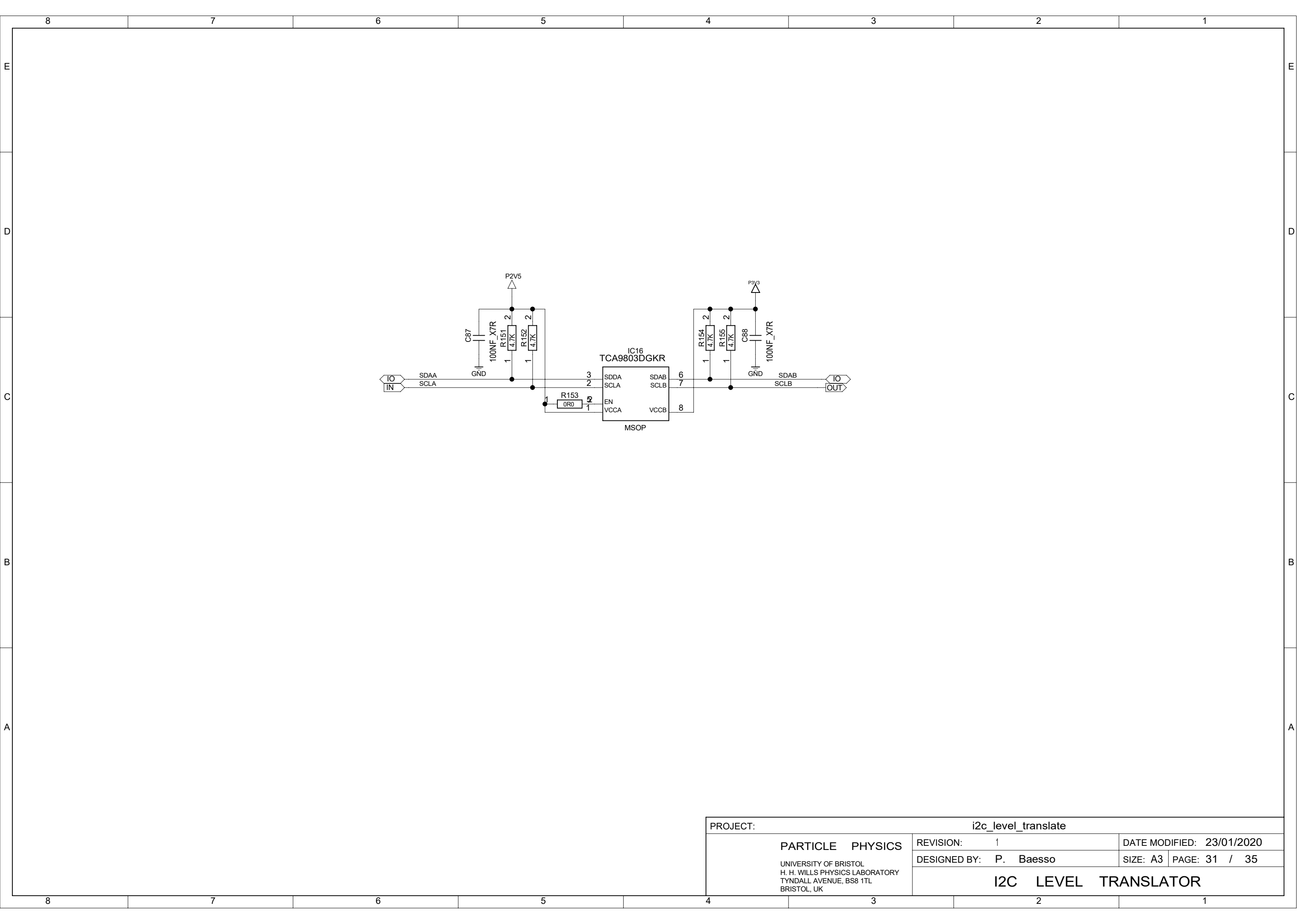
PROJECT:		i2c_level_translate		
<b>PARTICLE PHYSICS</b>  UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 27 / 35
	I2C LEVEL TRANSLATOR			

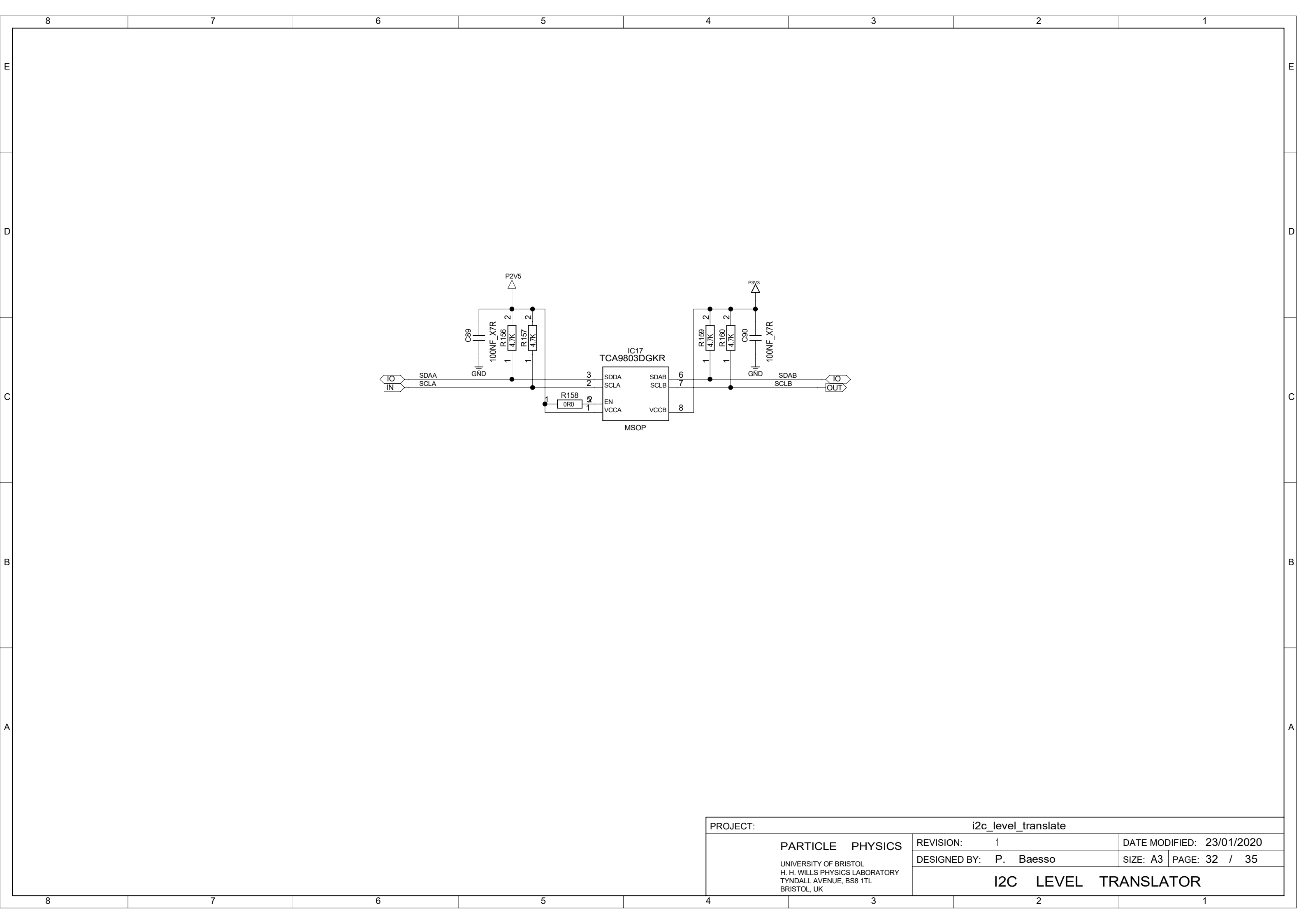




PROJECT:		i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 29 / 35
	I2C LEVEL TRANSLATOR			

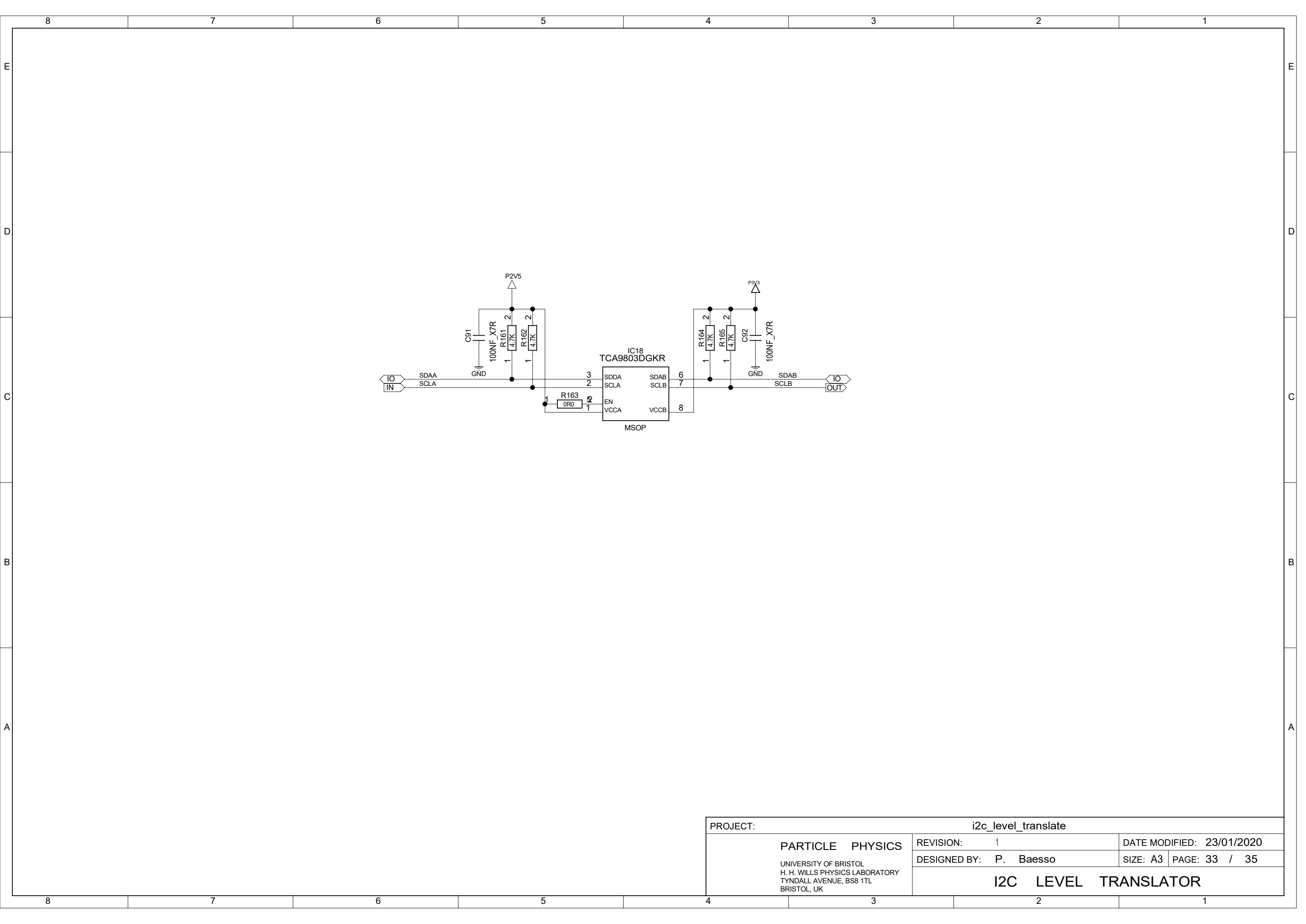




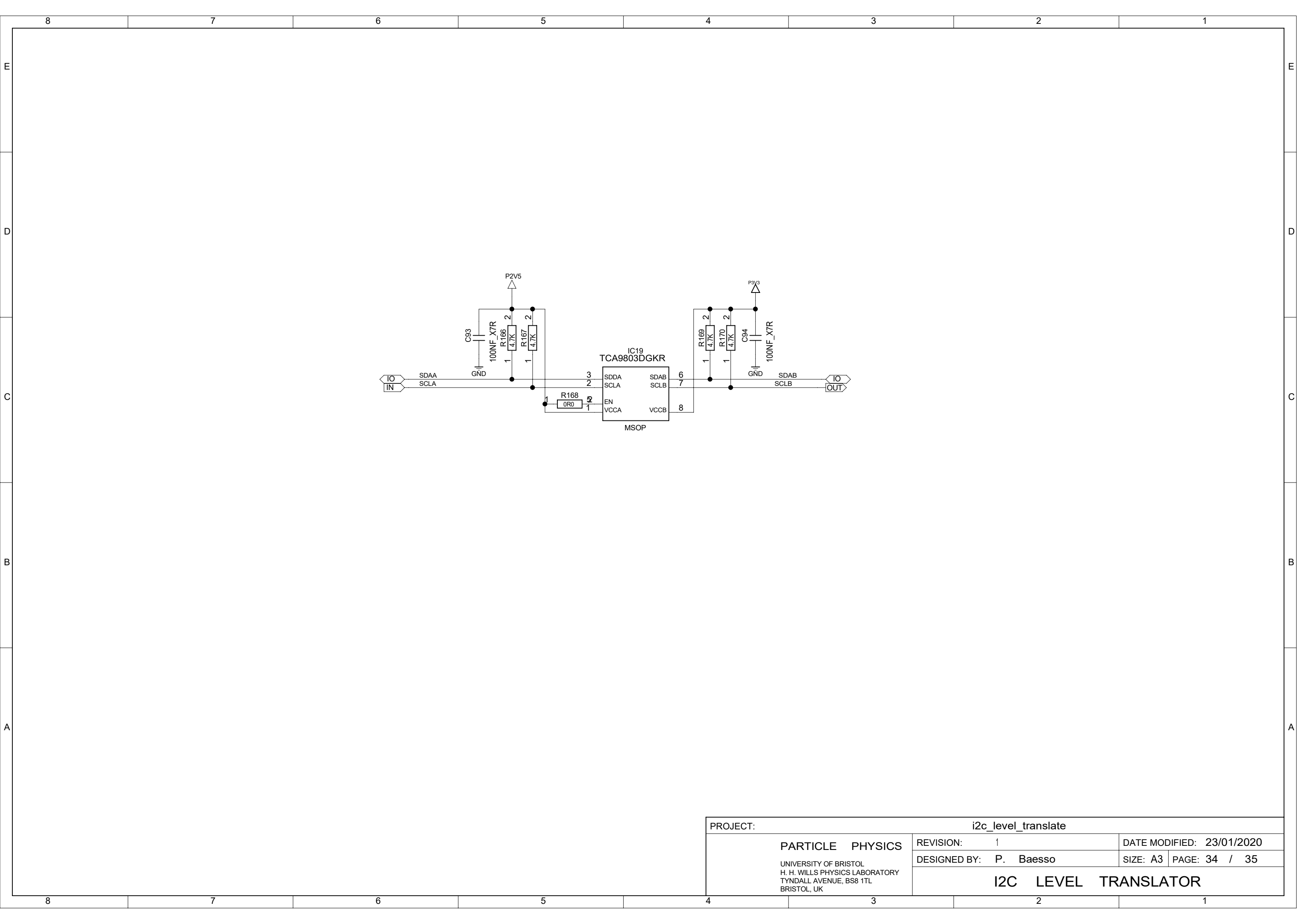


PROJECT:		i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 32 / 35
	I2C LEVEL TRANSLATOR			

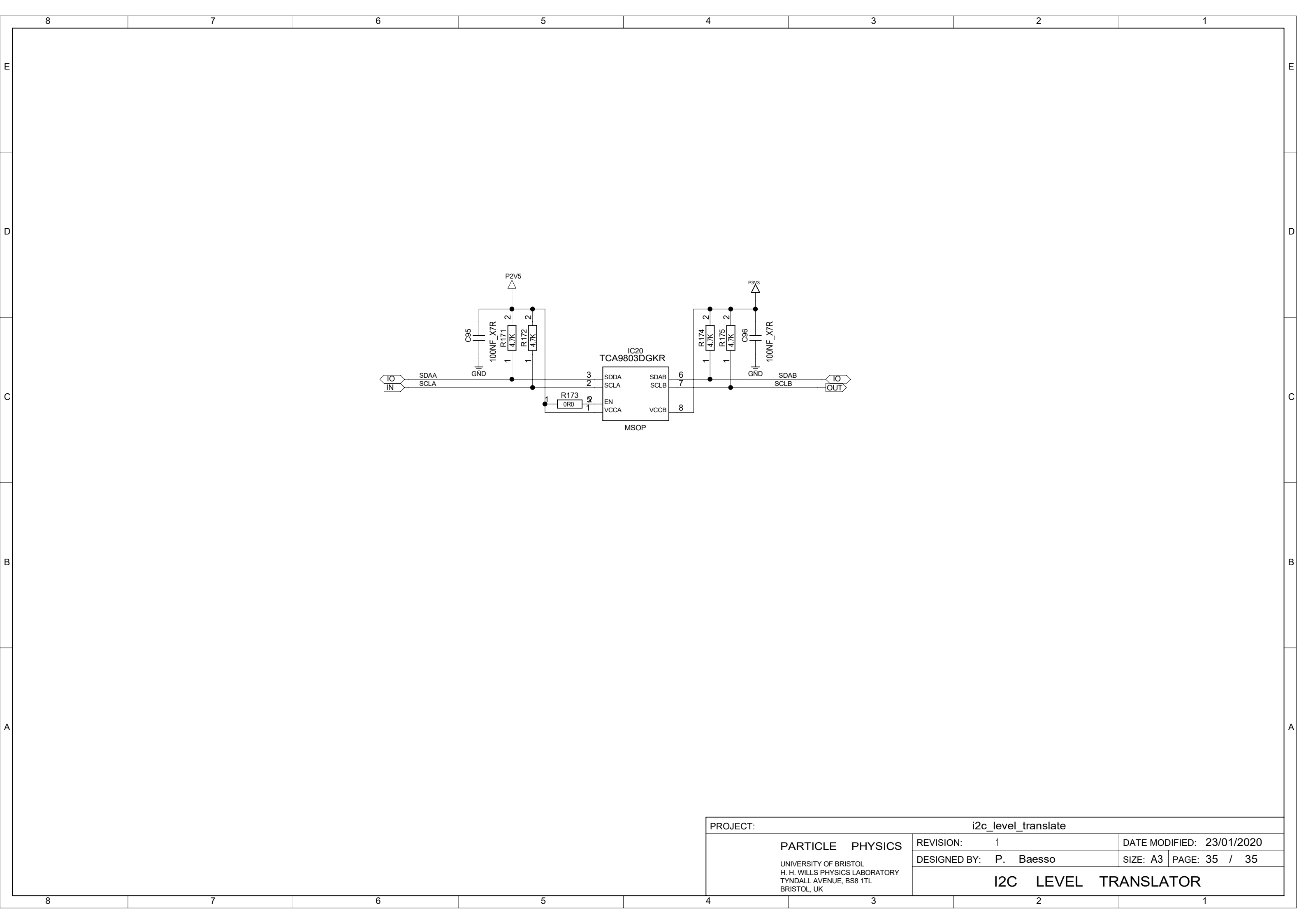




PROJECT:		i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 33 / 35
	I2C LEVEL TRANSLATOR			



PROJECT:		i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020	
	DESIGNED BY:	P. Baesso	SIZE: A3	PAGE: 34 / 35
	I2C LEVEL TRANSLATOR			



PROJECT:		i2c_level_translate	
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	1	DATE MODIFIED: 23/01/2020
	DESIGNED BY:	P. Baesso	SIZE: A3 PAGE: 35 / 35
	I2C LEVEL TRANSLATOR		