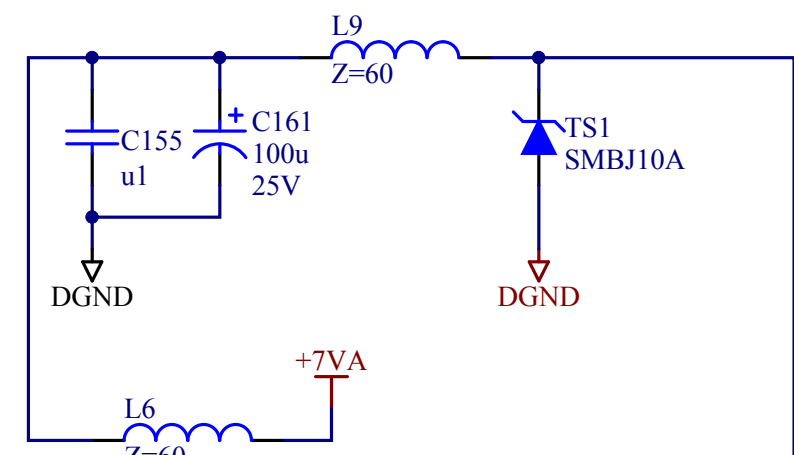


TRANSIENT PROTECTION FOR +7V RAIL



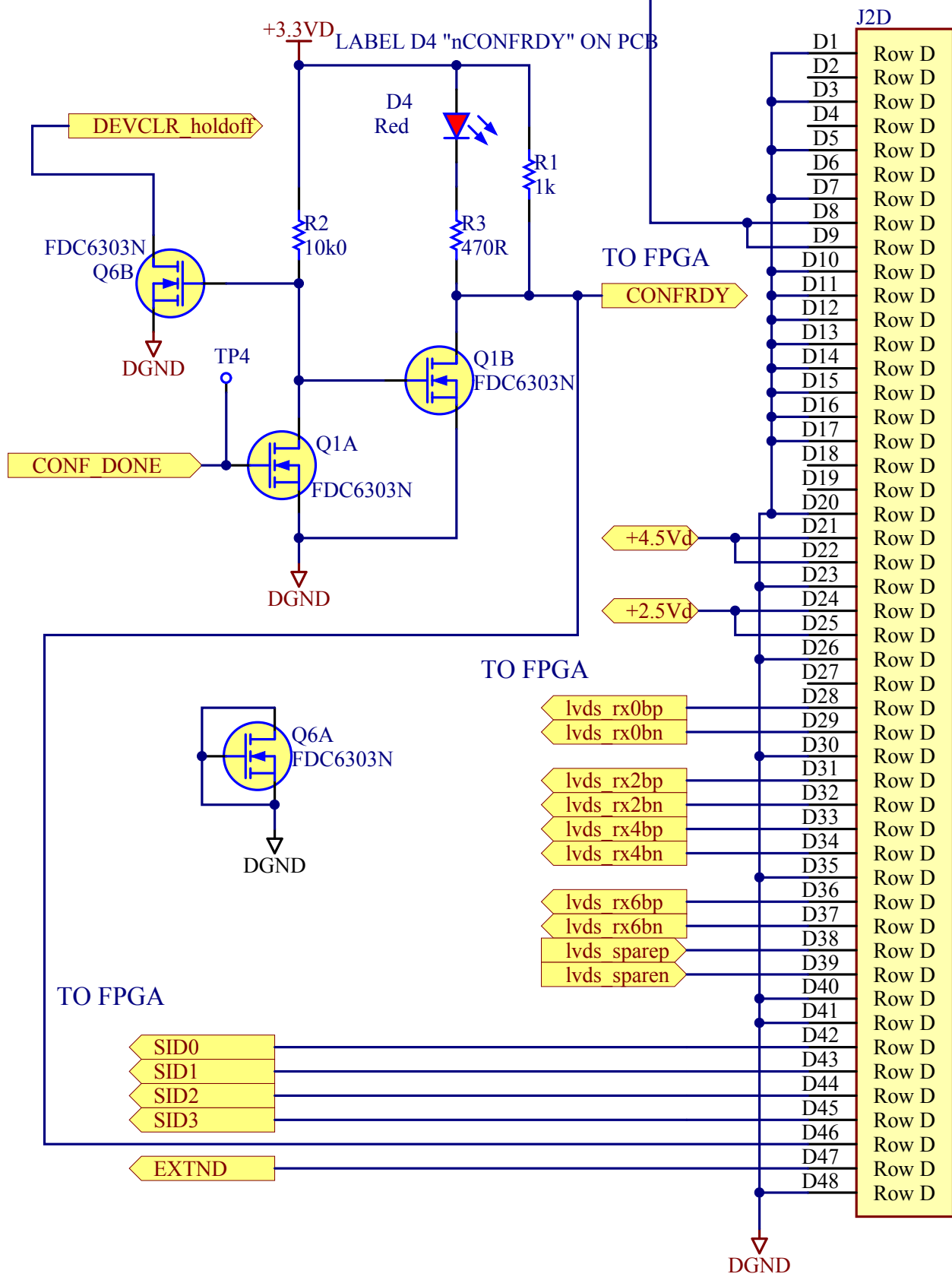
D1 Row D
D2 Row D
D3 Row D
D4 Row D
D5 Row D
D6 Row D
D7 Row D
D8 Row D
D9 Row D
D10 Row D
D11 Row D
D12 Row D
D13 Row D
D14 Row D
D15 Row D
D16 Row D
D17 Row D
D18 Row D
D19 Row D
D20 Row D
D21 Row D
D22 Row D
D23 Row D
D24 Row D

C1 Row C
C2 Row C
C3 Row C
C4 Row C
C5 Row C
C6 Row C
C7 Row C
C8 Row C
C9 Row C
C10 Row C
C11 Row C
C12 Row C
C13 Row C
C14 Row C
C15 Row C
C16 Row C
C17 Row C
C18 Row C
C19 Row C
C20 Row C
C21 Row C
C22 Row C
C23 Row C
C24 Row C
C25 Row C

B1 Row B
B2 Row B
B3 Row B
B4 Row B
B5 Row B
B6 Row B
B7 Row B
B8 Row B
B9 Row B
B10 Row B
B11 Row B
B12 Row B
B13 Row B
B14 Row B
B15 Row B
B16 Row B
B17 Row B
B18 Row B
B19 Row B
B20 Row B
B21 Row B
B22 Row B
B23 Row B
B24 Row B
B25 Row B

A1 Row A
A2 Row A
A3 Row A
A4 Row A
A5 Row A
A6 Row A
A7 Row A
A8 Row A
A9 Row A
A10 Row A
A11 Row A
A12 Row A
A13 Row A
A14 Row A
A15 Row A
A16 Row A
A17 Row A
A18 Row A
A19 Row A
A20 Row A
A21 Row A
A22 Row A
A23 Row A
A24 Row A

CONFIGURATION READY INTERFACE



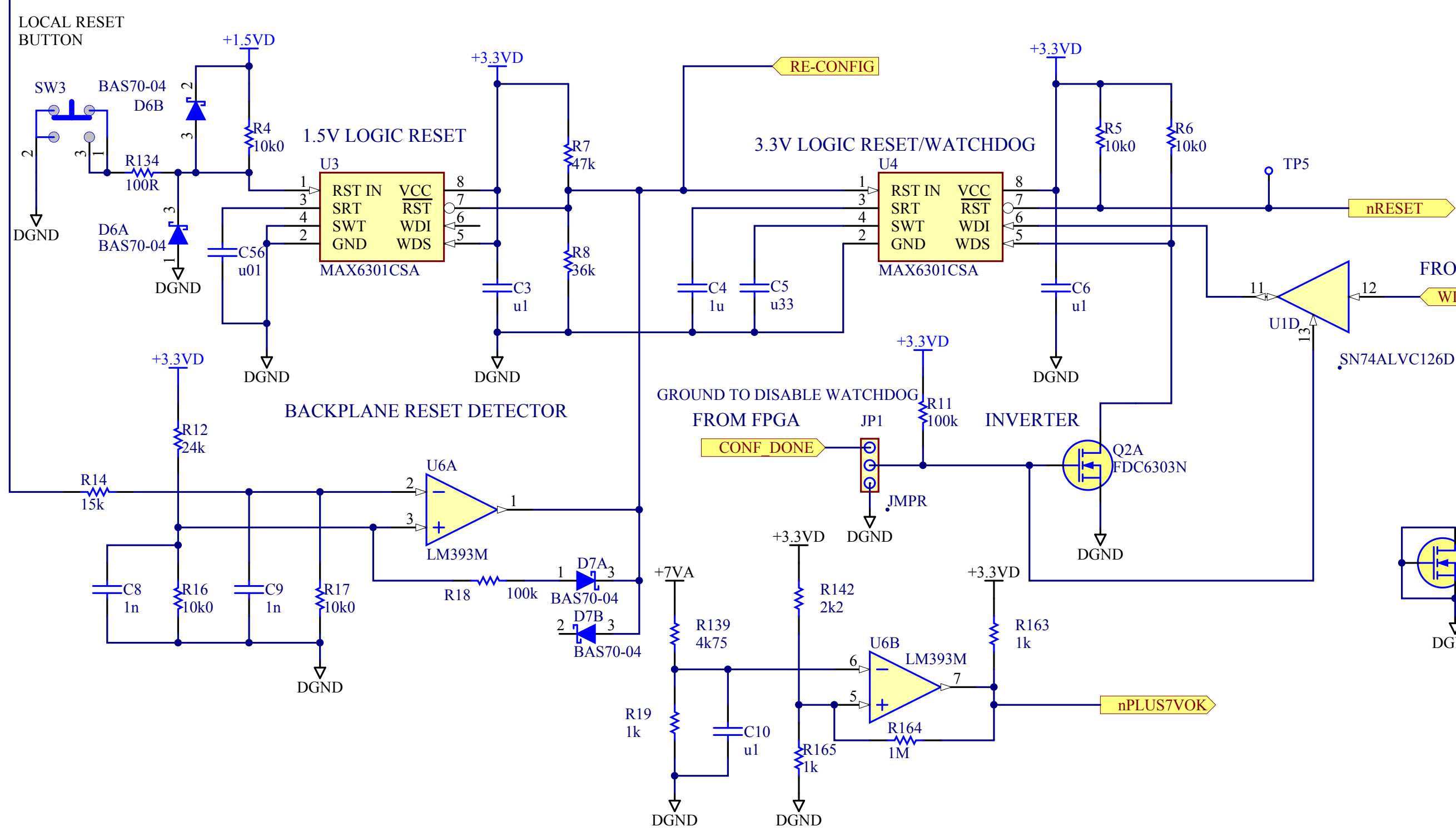
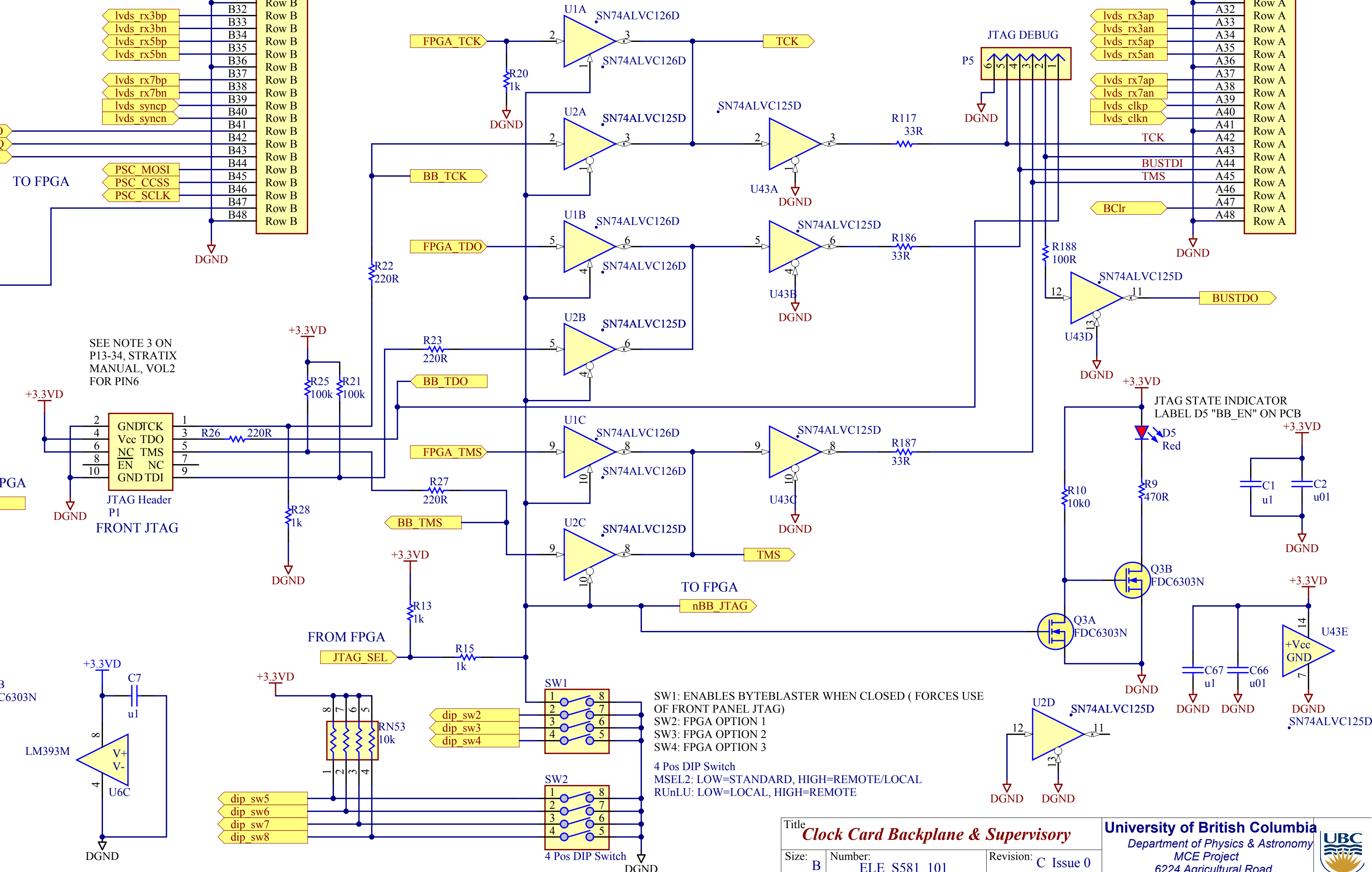
TO FPGA

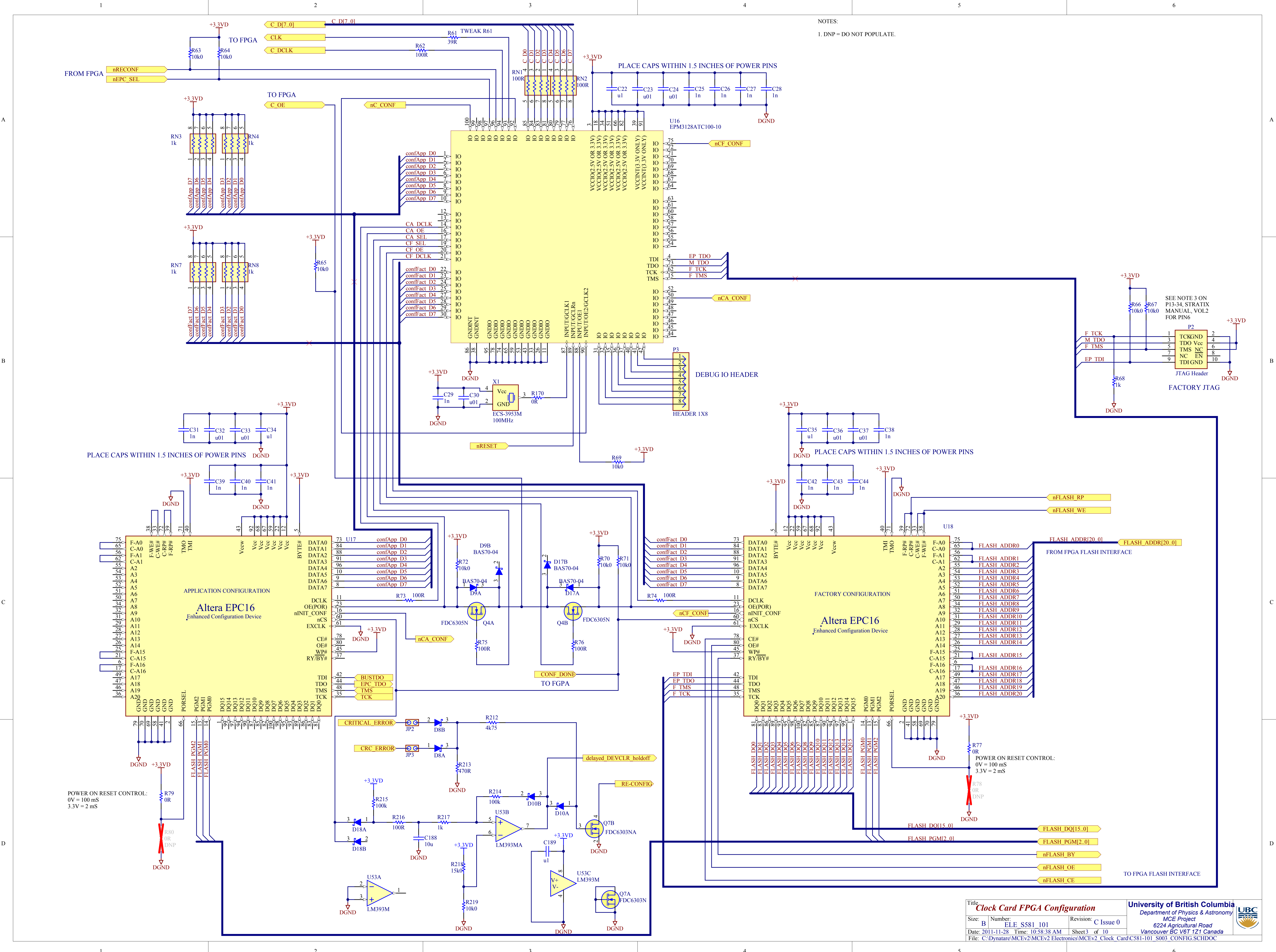
TO FPGA

TO FPGA

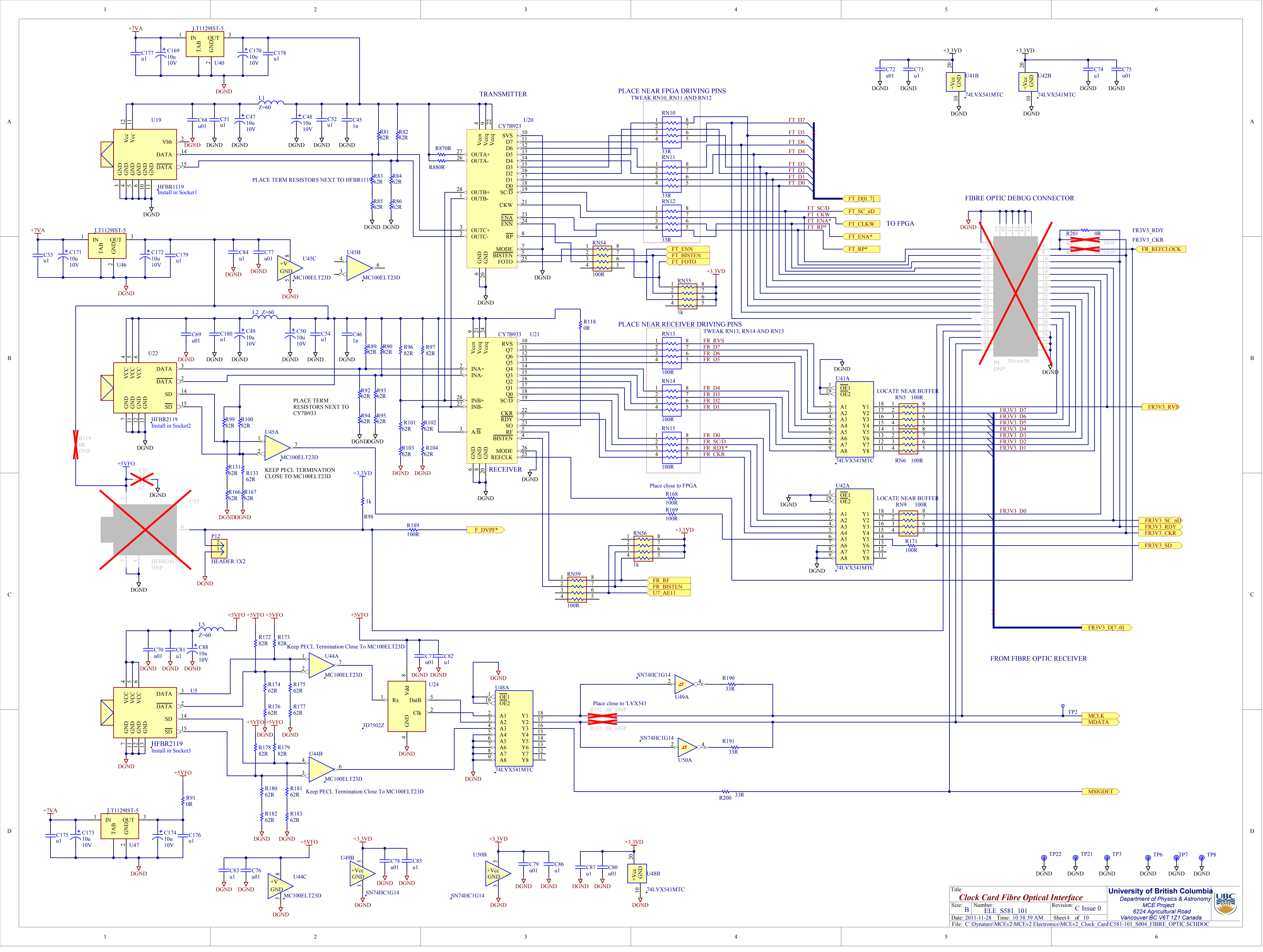
TO FPGA

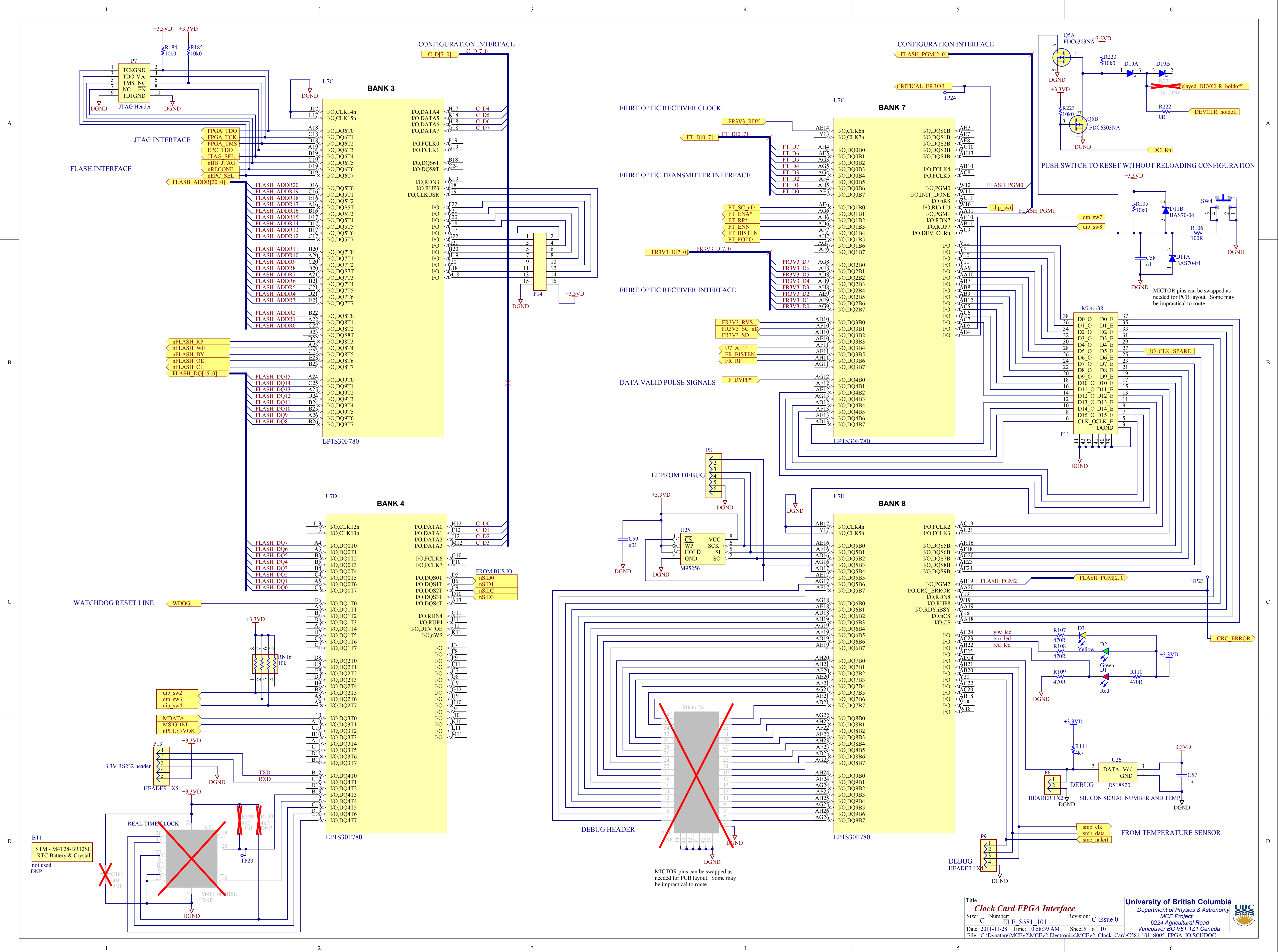
JTAG SELECT CIRCUIT

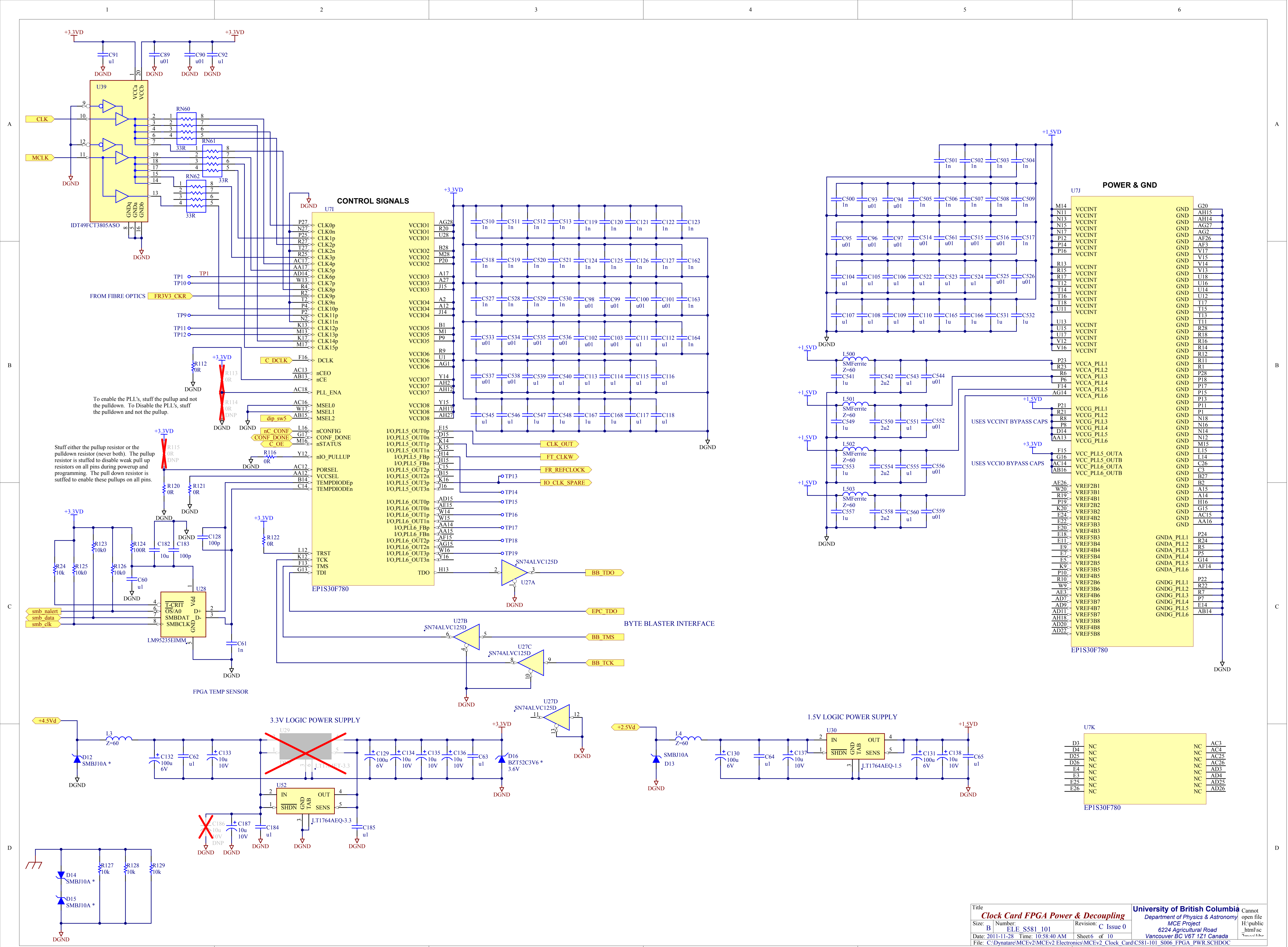




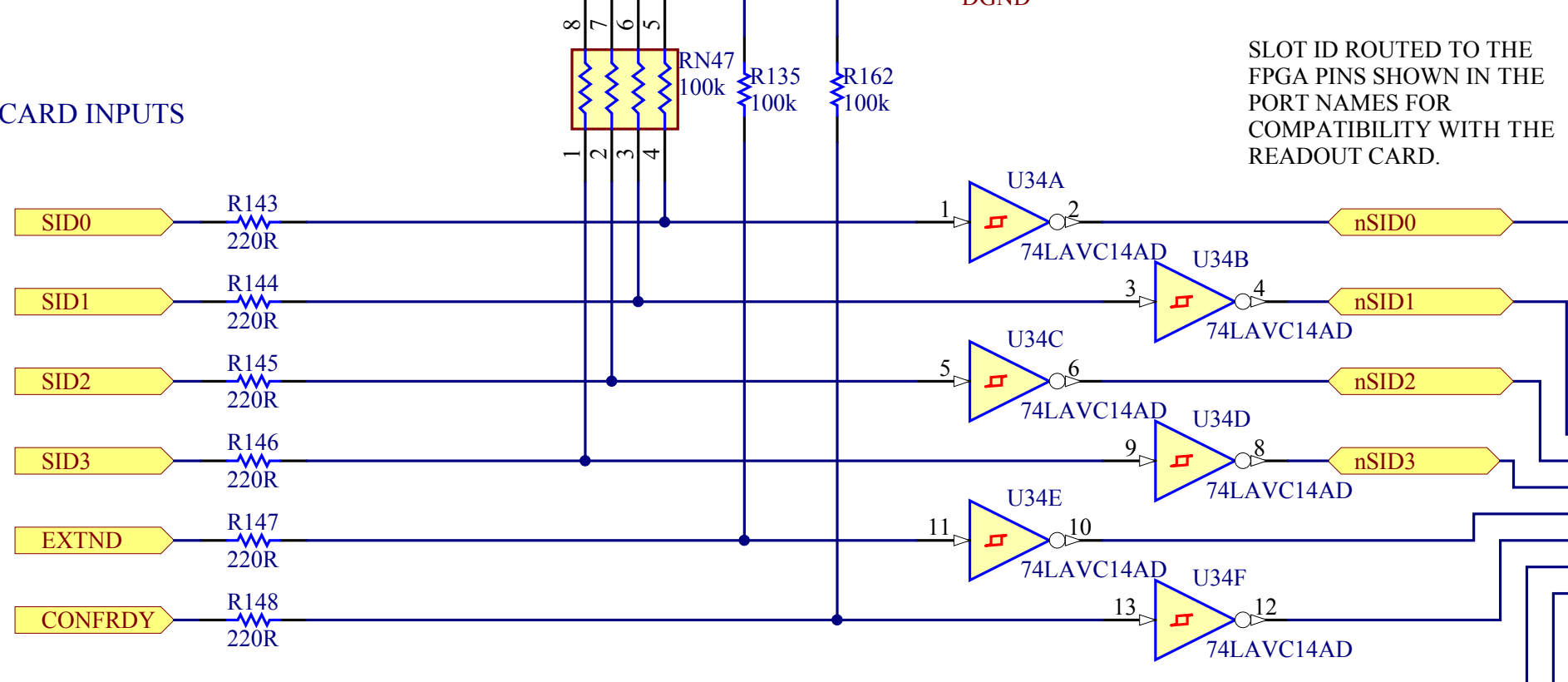
NOTES:
1. DNP = DO NOT POPULATE.



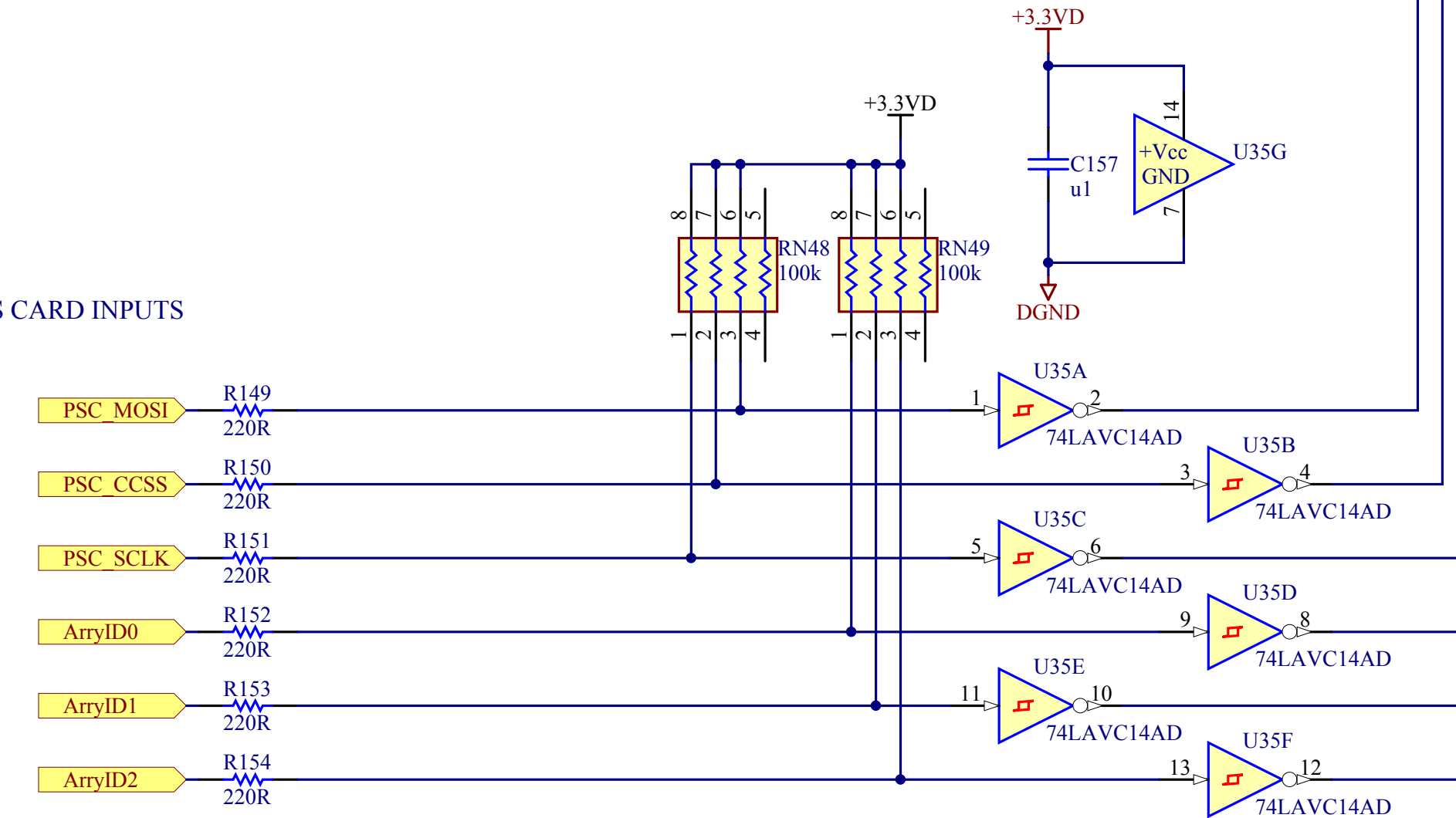




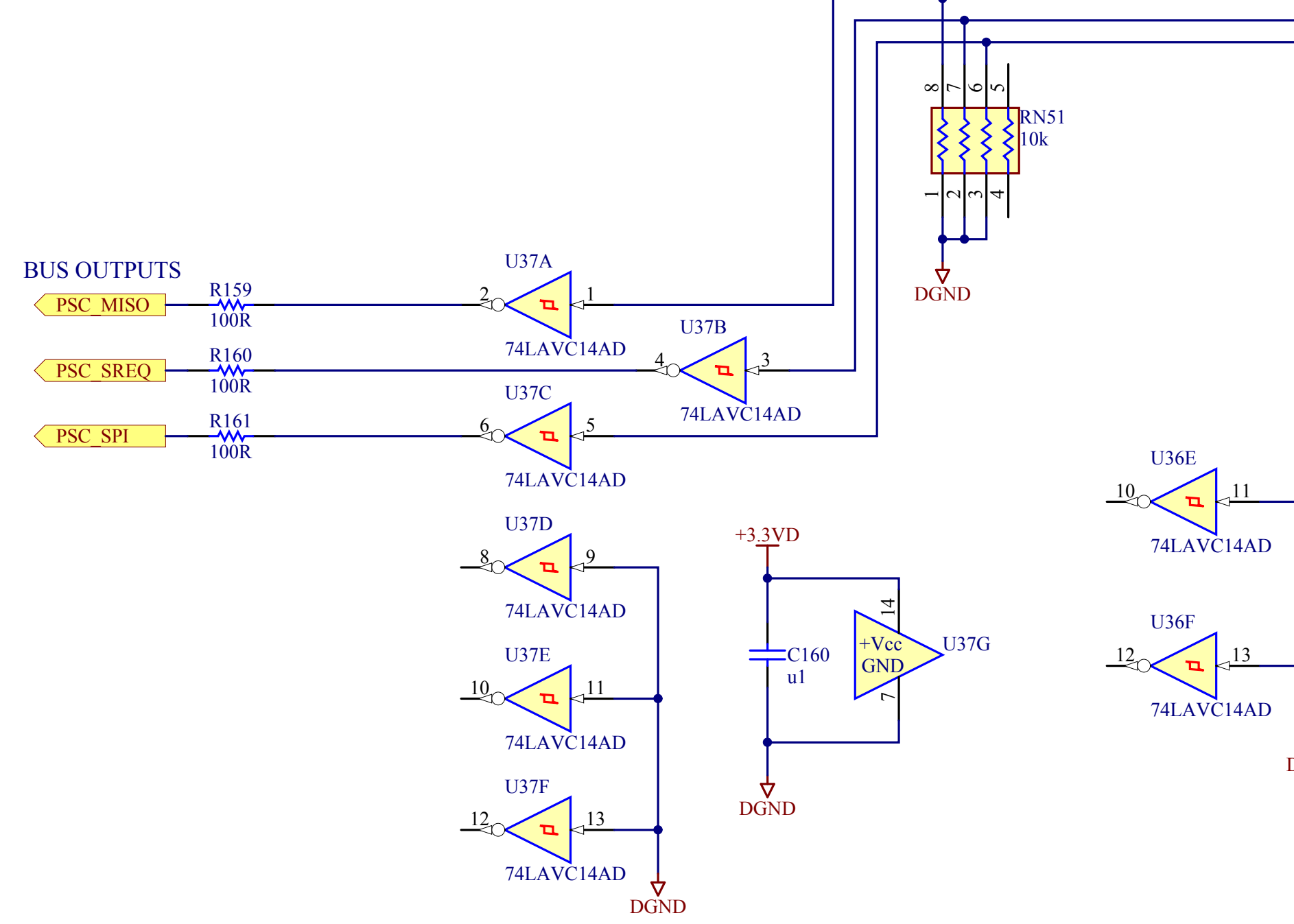
BUS CARD INPUTS



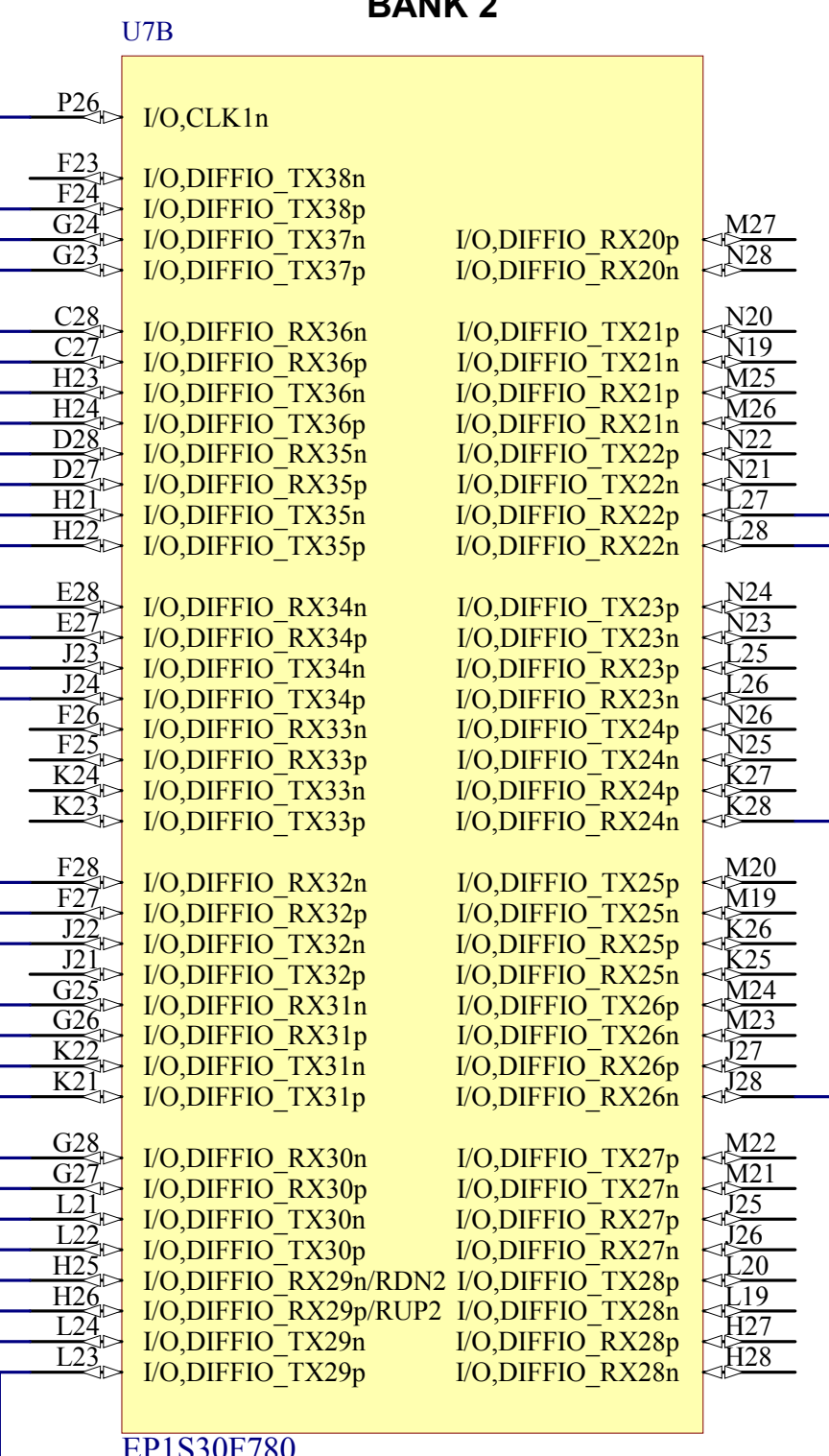
BUS CARD INPUTS



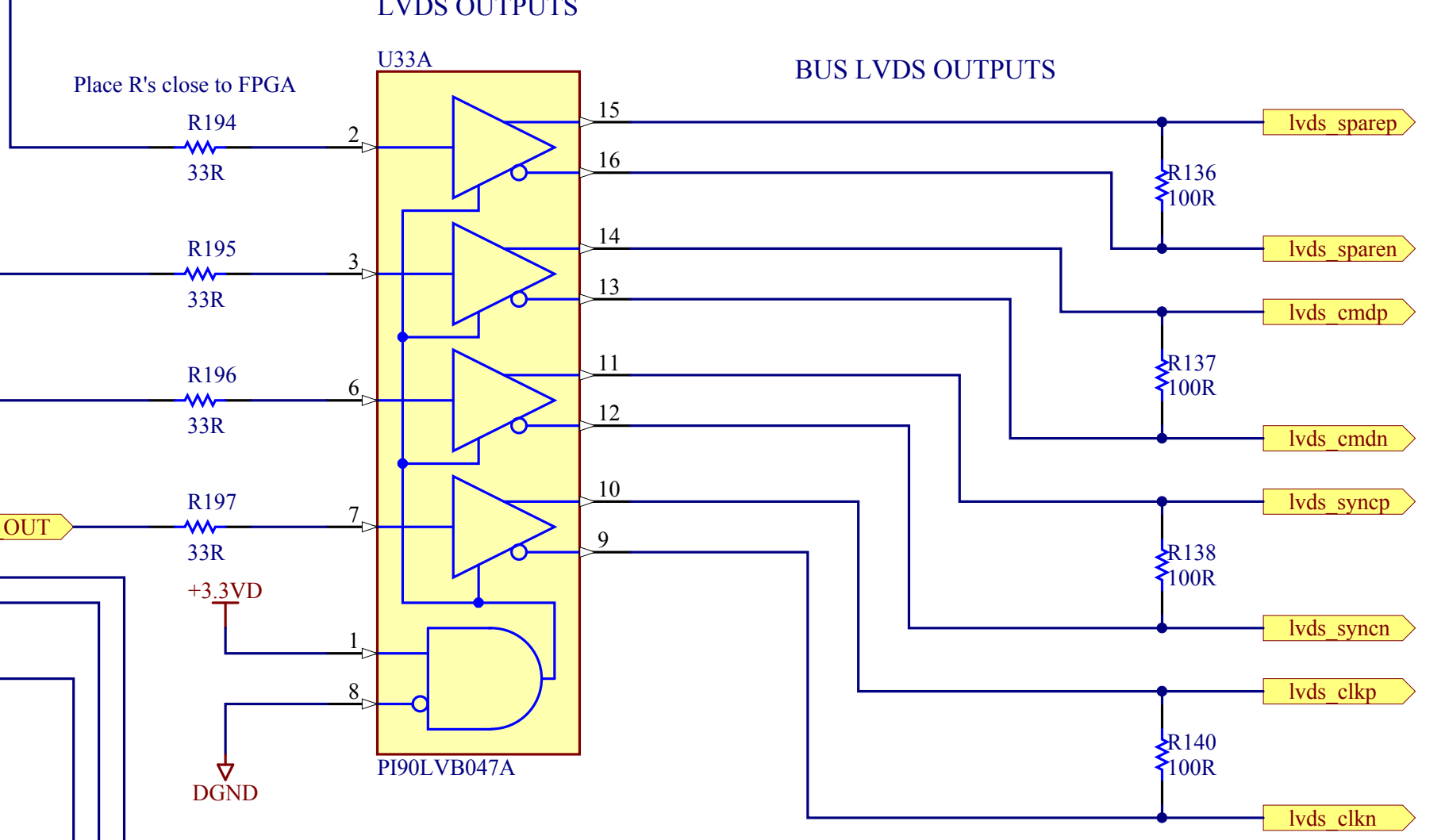
BUS OUTPUTS



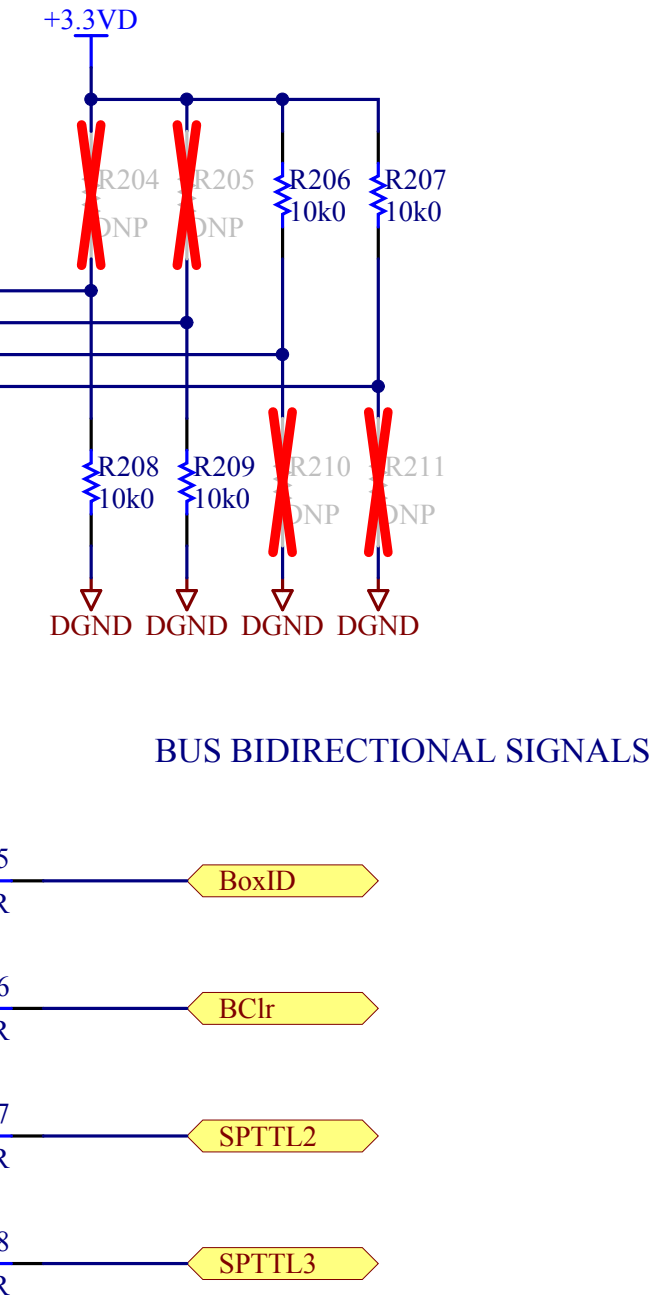
BANK 2



LVDS OUTPUTS



BUS BIDIRECTIONAL SIGNALS



	1	2	3	4	5	6
A						A
B						B
C						C
D						D

SHEET 1
C581-101_S001_BUS.SCHDOC;C581-101_S002_LVDS.SCHDOC;C581-101_S003_CONFIG.SCHDOC;C581-101_S004_FIBRE_OPTIC.SCHDOC;C581-101_S005_FPGA_IO.SCHDOC;C581-101_S006_FPGA_PWR.SCHDOC;C581-101_S007_SRAM.SCHDOC;C581-101_S008_FPGA_BUSIO.SCHDOC;C581-101_S009_MECH.SchDoc



Issue 0

Title			Clock Card Top Level			University of British Columbia <i>Department of Physics & Astronomy</i> <i>MCE Project</i> <i>6224 Agricultural Road</i> <i>Vancouver BC V6T 1Z1 Canada</i> 
Size:	Number:	Revision:		C		
B	ELE_S581_101					
Date:	2011-11-28	Time:	10:58:41 AM	Sheet	9 of 10	
File:		C:\Dynatare\MCEv2\MCEv2 Electronics\MCEv2_Clock Card\C581-101_S000_TOP.SCHDOC				

1	2	3	4	5	6	
A	TO-220 Heatsink Assembly M3 x 10mm SSPHMS Type: Hardware Manufacturer: Pacific Fastener Part Number: Mech1 3mm SS Hex Nut Type: Hardware Manufacturer: Pacific Fastener Part Number: Mech2 3mm Int Star Lock Washer Type: Hardware Manufacturer: Pacific Fastener Part Number: Mech5 3W TO-220 Heatsink Manufacturer: Wakefield Part Number: 273AB HS1 Mechanical Part Add to BOM: Use Heatsink Compound 002096 MEC See Drawing MEC-C580-195 - Simple Regulator HS Mounting					A
B	Front Panel Mounting Assembly Bottom Extraction Handle Manufacturer: Rittal Part Number: 3686-902 Mech3 Top Extraction Handle Manufacturer: Rittal Part Number: 3686-903 Mech4 SCUBA2 Clock Card Front Panel Manufacturer: PHAS-MS Part Number: SC2-ELE-S581-110 Mech8 Mechanical Part Add to BOM: SC2-MEC-S581-111 000655 MEC Fiber Optic Spacer Plate Mech7 Mounting Bracket for PCB Manufacturer: Rittal Part Number: 3685-198 (10/pack) Mech11 Mounting Bracket for PCB Manufacturer: Rittal Part Number: 3685-198 (10/pack) Mech12 M2.5 x 8mm Machine Screw Cone Head Type: Hardware Mech15 M2.5 x 8mm Machine Screw Cone Head Type: Hardware Mech16 M2.5 x 8mm Machine Screw Type: Hardware Mech19 M2.5 x 8mm Machine Screw Type: Hardware Mech20 M2.5 x 8mm Machine Screw Type: Hardware Mech21 M2.5 x 8mm Machine Screw Type: Hardware Mech22					B
C	16 Pin DIP IC Socket Manufacturer: Mill-Max Part Number: 110-93-316-41-001 Socket1 16 Pin DIP IC Socket Manufacturer: Mill-Max Part Number: 110-93-316-41-001 Socket2 16 Pin DIP IC Socket Manufacturer: Mill-Max Part Number: 110-93-316-41-001 Socket3 8 Pin 2x4 0.1" Manufacturer: Mill-Max Socket4 Note for Socket 4: 8 Pin 2x4 0.1" Header Machined Pins with manuf # modified from 410-93-210-41-001					C
D	Use UBC Logo Use UBC Logo PCB Part Number for BOM: ELE-S581-101 Title Clock Card Mechanical Hardware Size: BNumber: ELE_S581_101Revision: C Issue 0 Date: 2011-11-28Time: 10:58:41 AMSheet10 of 10 File: C581-101_S009_MECH.SchDoc University of British Columbia Department of Physics & Astronomy MCE Project 6224 Agricultural Road Vancouver BC V6T 1Z1 Canada 					D
1	2	3	4	5	6	