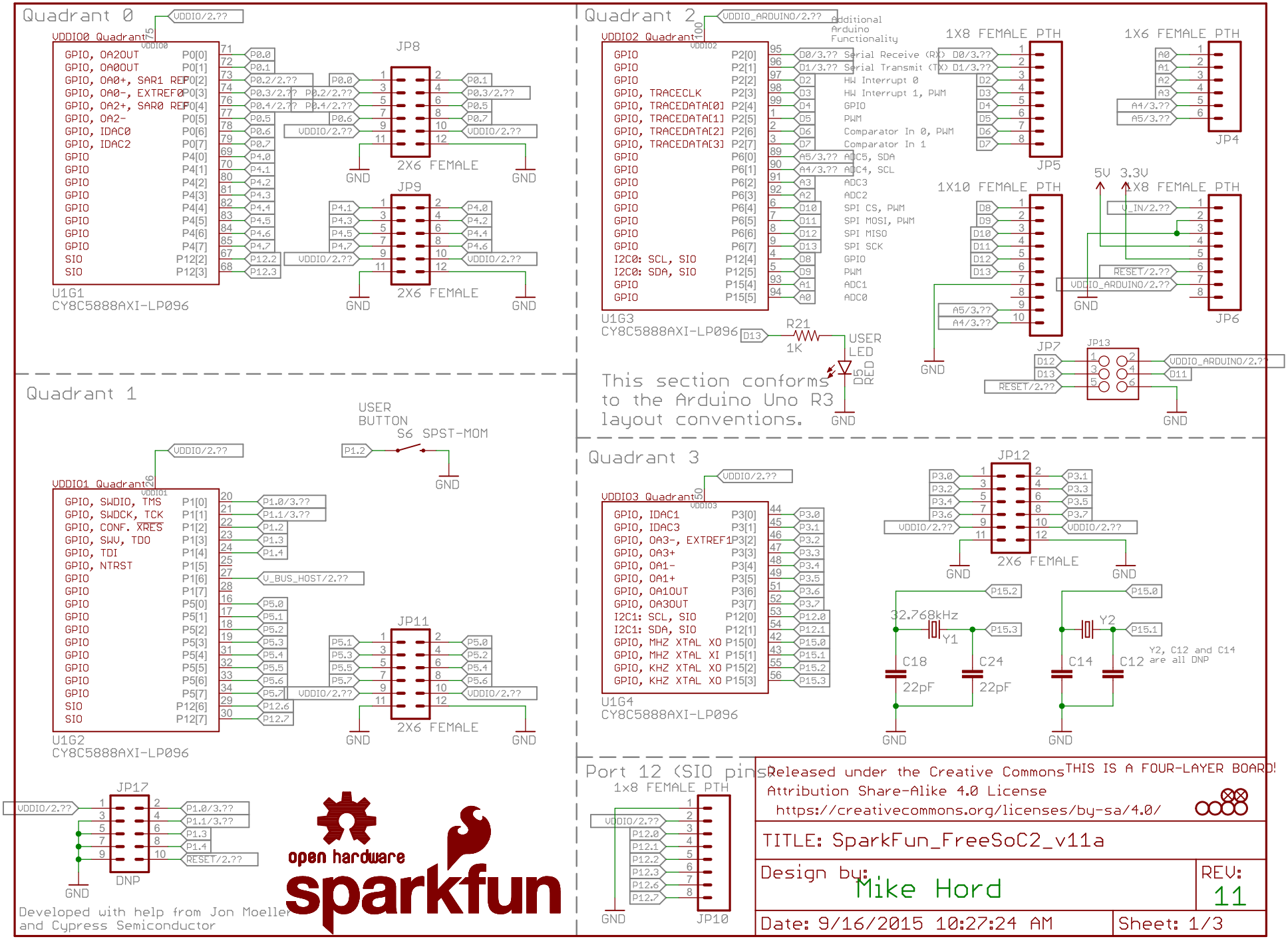
Quadrant 0
VDDIO0 Quadrant
U1G1
CY8C5888AXI-LP096
JP8
JP9
2X6 FEMALE
Quadrant 1
VDDIO1 Quadrant
U1G2
CY8C5888AXI-LP096
USER BUTTON
S6 SPST-MOM
JP11
JP17
DNP
Developed with help from Jon Moeller and Cypress Semiconductor
Quadrant 2
VDDIO2 Quadrant
U1G3
CY8C5888AXI-LP096
Additional Arduino Functionality
1X8 FEMALE PTH
1X6 FEMALE PTH
1X10 FEMALE PTH
JP4
JP5
JP6
JP7
JP13
R21
1K
USER LED
This section conforms to the Arduino Uno R3 layout conventions.
Quadrant 3
VDDIO3 Quadrant
U1G4
CY8C5888AXI-LP096
JP12
32.768kHz
Y1
Y2
C18
C24
C14
C12
22pF
Y2, C12 and C14 are all DNP
Port 12 (SIO pins)
JP10
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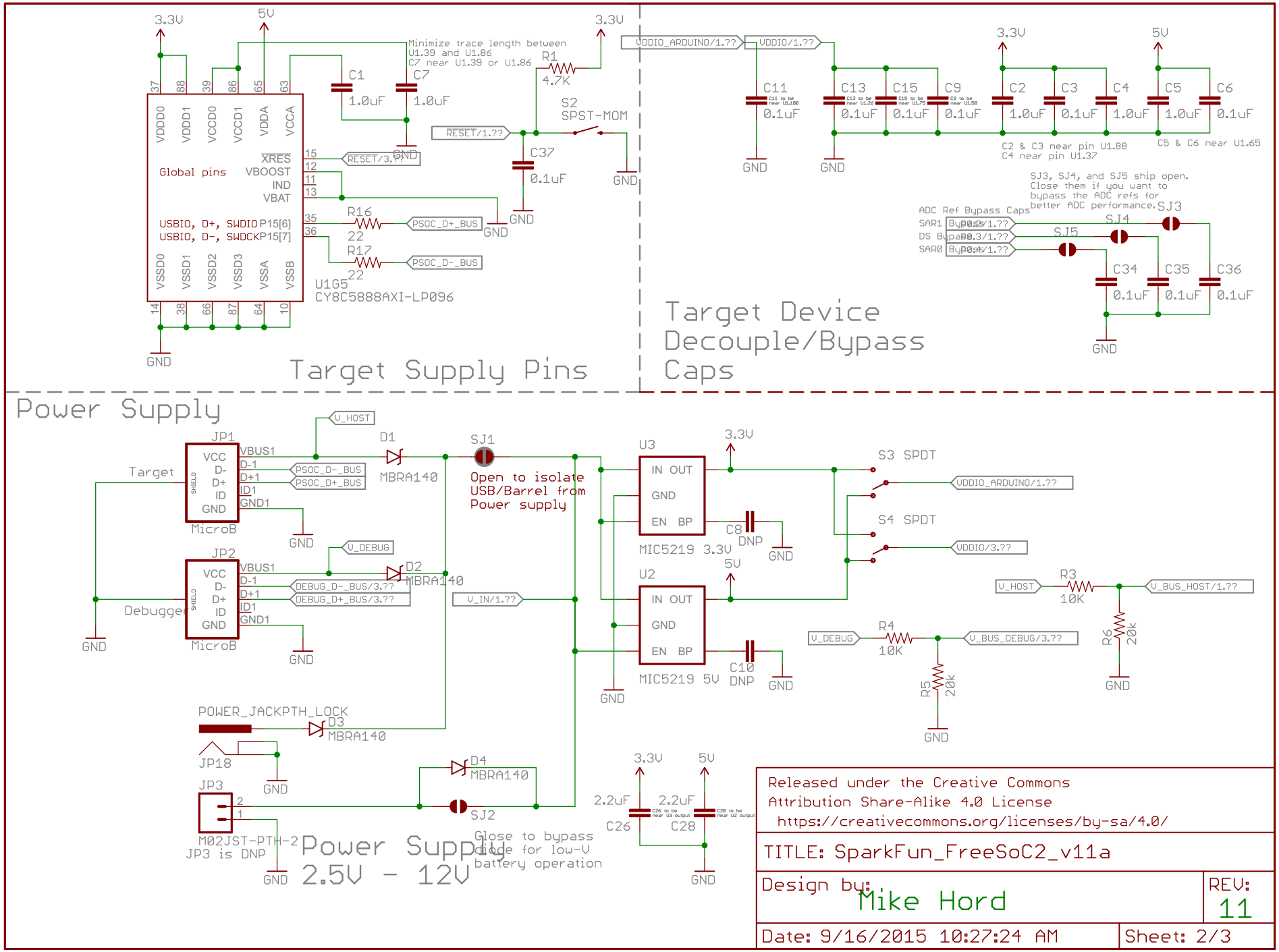
THIS IS A FOUR-LAYER BOARD!
TITLE: SparkFun_FreeSoC2_v11a
Design by: Mike Hord
REV: 11
Date: 9/16/2015 10:27:24 AM
Sheet: 1/3


Target Supply Pins
Target Device Decouple/Bypass Caps
Power Supply
Power Supply 2.5V - 12V
U1G5
CY8C5888AXI-LP096
Global pins
Minimize trace length between U1.39 and U1.86 C7 near U1.39 or U1.86
C2 & C3 near pin U1.88 C4 near pin U1.37
C5 & C6 near U1.65
SJ3, SJ4, and SJ5 ship open. Close them if you want to bypass the ADC refs for better ADC performance.
ADC Ref Bypass Caps
Open to isolate USB/Barrel from Power supply
Close to bypass diode for low-V battery operation
JP3 is DNP
MIC5219 3.3V
MIC5219 5V
Target
Debugger
MicroB
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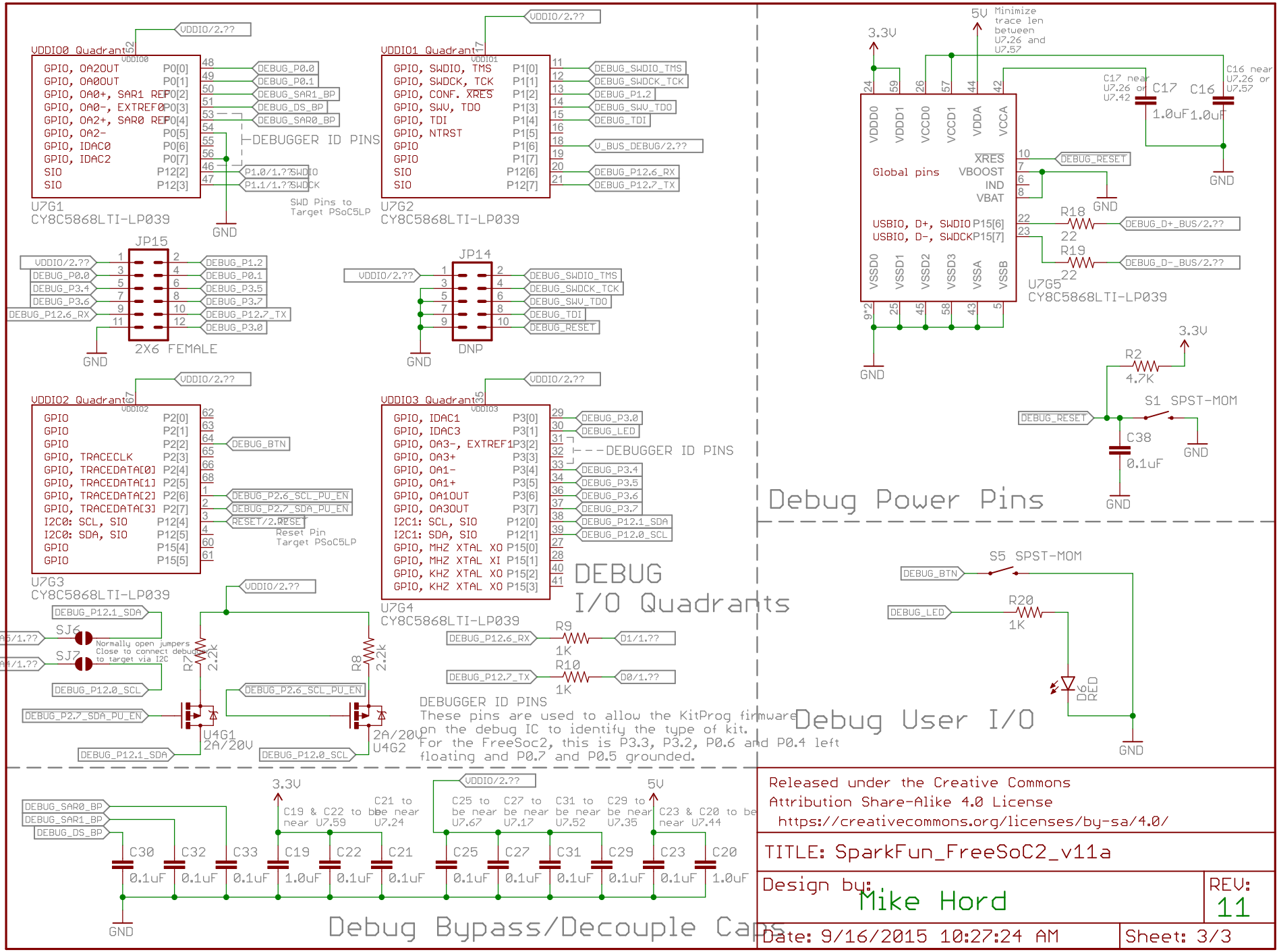
TITLE: SparkFun_FreeSoC2_v11a
Design by: Mike Hord
REV: 11
Date: 9/16/2015 10:27:24 AM
Sheet: 2/3



TITLE: SparkFun_FreeSoC2_v11a

Design by: Mike Hord

REV: 11

Date: 9/16/2015 10:27:24 AM

Sheet: 3/3