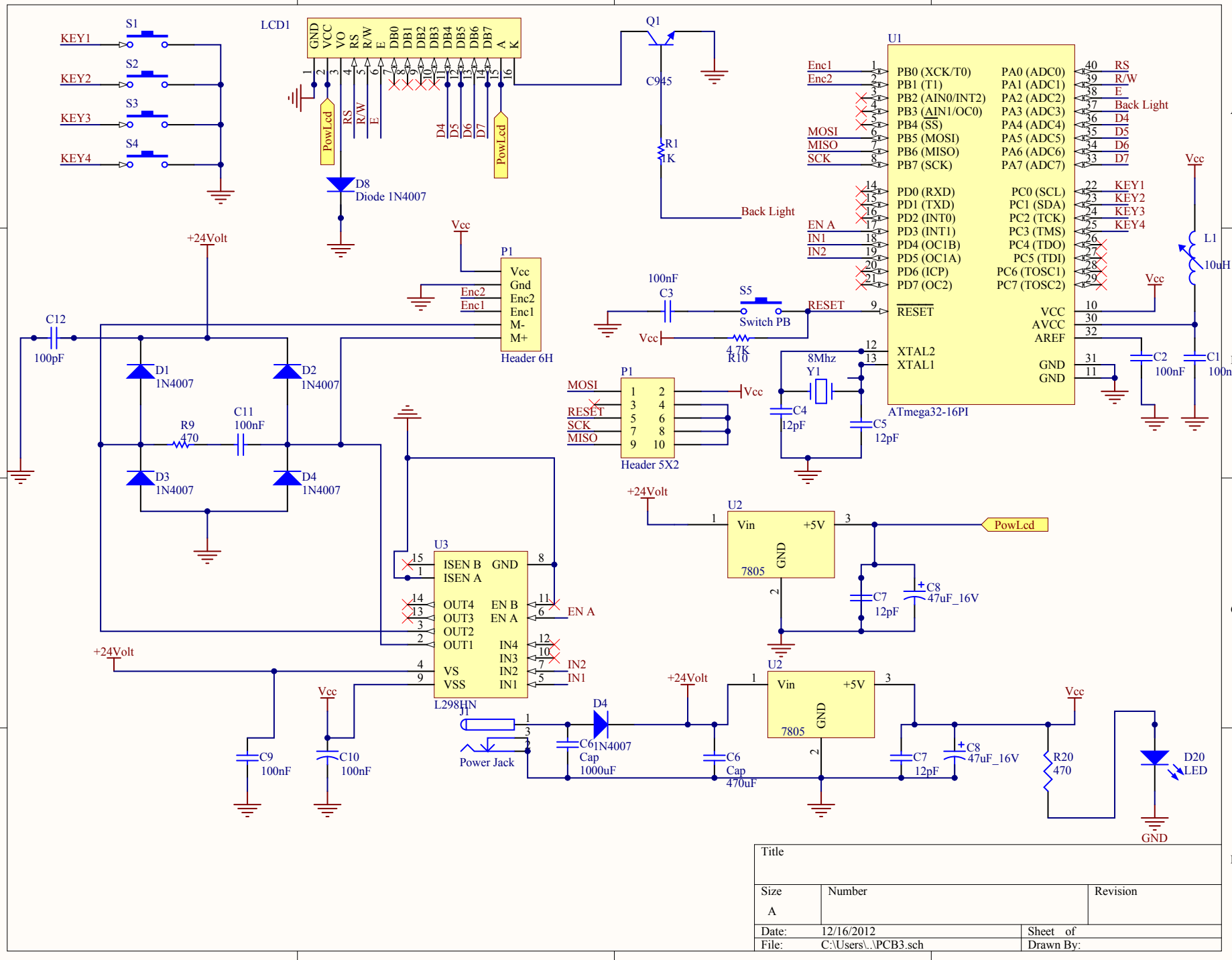
S1
KEY1
S2
KEY2
S3
KEY3
S4
KEY4
LCD1
GND VCC VO RS R/W E DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7 A K
PowLcd
RS
R/W
E
D4 D5 D6 D7
PowLcd
D8
Diode 1N4007
Q1
C945
R1
1K
Back Light
U1
ATmega32-16PI
PB0 (XCK/T0)
PB1 (T1)
PB2 (AIN0/INT2)
PB3 (AIN1/OC0)
PB4 (SS)
PB5 (MOSI)
PB6 (MISO)
PB7 (SCK)
PD0 (RXD)
PD1 (TXD)
PD2 (INT0)
PD3 (INT1)
PD4 (OC1B)
PD5 (OC1A)
PD6 (ICP)
PD7 (OC2)
PA0 (ADC0)
PA1 (ADC1)
PA2 (ADC2)
PA3 (ADC3)
PA4 (ADC4)
PA5 (ADC5)
PA6 (ADC6)
PA7 (ADC7)
PC0 (SCL)
PC1 (SDA)
PC2 (TCK)
PC3 (TMS)
PC4 (TDO)
PC5 (TDI)
PC6 (TOSC1)
PC7 (TOSC2)
RESET
VCC
AVCC
AREF
GND
GND
XTAL2
XTAL1
Enc1
Enc2
MOSI
MISO
SCK
EN A
IN1
IN2
RS
R/W
Back Light
D4
D5
D6
D7
KEY1
KEY2
KEY3
KEY4
RESET
8Mhz
Y1
C4
12pF
C5
12pF
C2
100nF
C1
100nF
L1
10uH
Vcc
+24Volt
P1
Header 6H
Vcc
Gnd
Enc2
Enc1
M-
M+
C12
100pF
D1
1N4007
D2
1N4007
D3
1N4007
D4
1N4007
R9
470
C11
100nF
100nF
C3
S5
Switch PB
4.7K
R10
P1
Header 5X2
MOSI
RESET
SCK
MISO
U3
L298HN
ISEN B
ISEN A
OUT4
OUT3
OUT2
OUT1
VS
VSS
GND
EN B
EN A
IN4
IN3
IN2
IN1
EN A
IN2
IN1
U2
Vin
+5V
GND
7805
PowLcd
C7
12pF
C8
47uF_16V
C9
100nF
C10
100nF
J1
Power Jack
D4
1N4007
C6
Cap
1000uF
C6
Cap
470uF
R20
470
D20
LED
GND
Title
Size
A
Number
Revision
Date:
12/16/2012
Sheet of
File:
C:\Users\..\PCB3.sch
Drawn By: