Power
3
2
1
Header 3
GND

R
Res1
1K

Reset S/W
2
1
Header 2
GND

C
Cap2
100pF
GND

U1
1 MCLR/VPP/RE3
11 VDD
32 VDD

2 RA0/AN0
3 RA1/AN1
4 RA2/AN2
5 RA3/AN3
6 RA4/T0CK1
7 RA5/AN4
14 RA6/OSC2/CLKO/
13 RA7/OSC1/CLKI

15 RC0/T1OSO/T13CKI
16 RC1/T1OSI/CCP2
17 RC2/CCP1/P1A
18 RC3/SCK/SCL
23 RC4/SDI/SDA
24 RC5/SDO
25 RC6/TX/CK
26 RC7/RX/DT

RB0 33
RB1 34
RB2 35
RB3 36
RB4 37
RB5 38
RB6 39
RB7 40

RD0 19
RD1 20
RD2 21
RD3 22
RD4 27
RD5 28
RD6 29
RD7 30

RE0/RD/AN5 8
RE1/WR/AN6 9
RE2/CS/AN7 10

PIC18F4520-I/P

LCD
1
2
3
4
5
6
7
8
Header 8

Keypad
1
2
3
4
5
6
7
8
Header 8

Inner S/W
2
1

Rsw
Res1
100

Sole
1
2

S.Trans
2N3904

Buzz
Header 2
1
2

B.Trans
2N3904

5 4 3 2 1
Header 5
S.Rel

Rg
Res1
1K

Green
G

5 4 3 2 1
Header 5
B.Rel

Rr
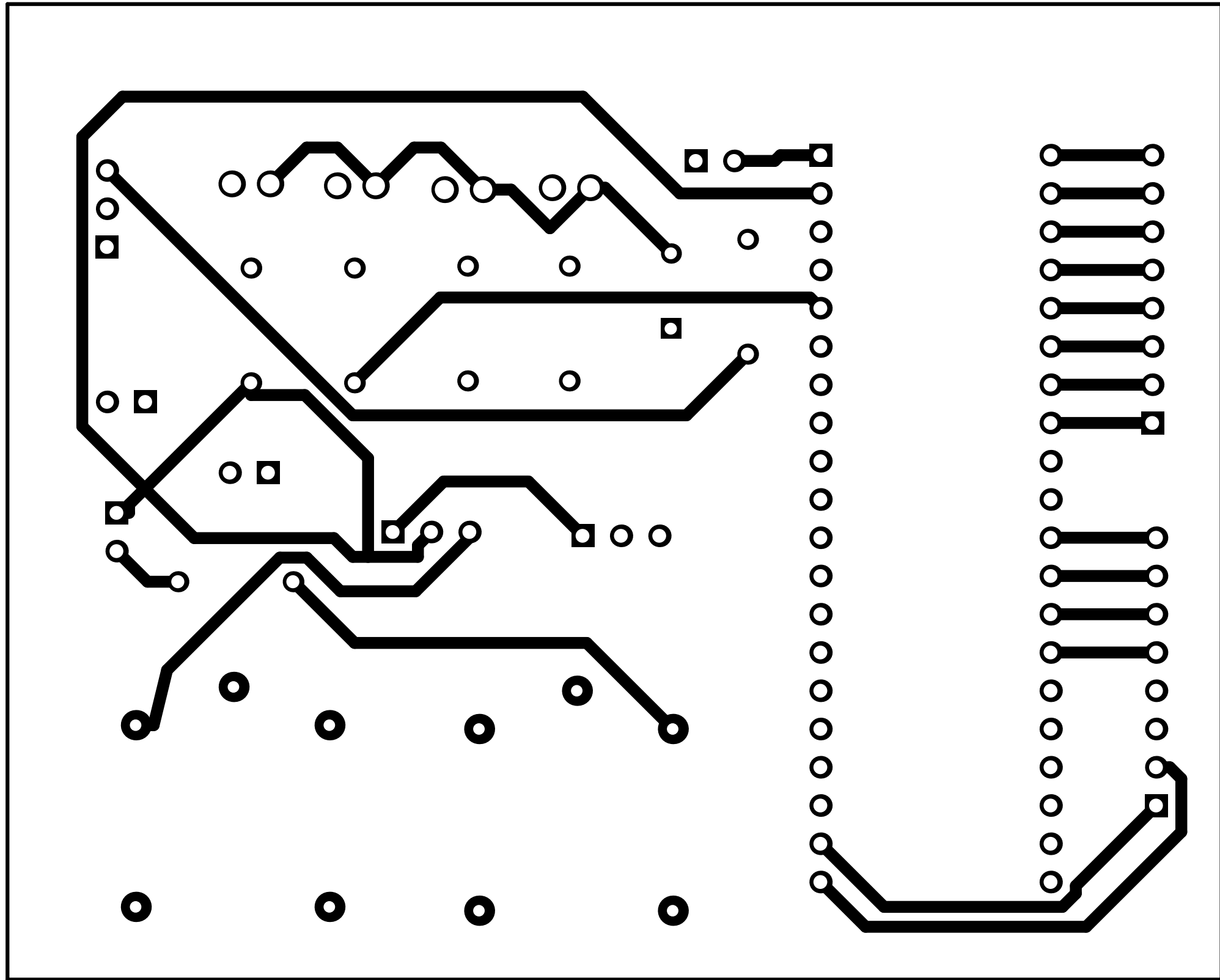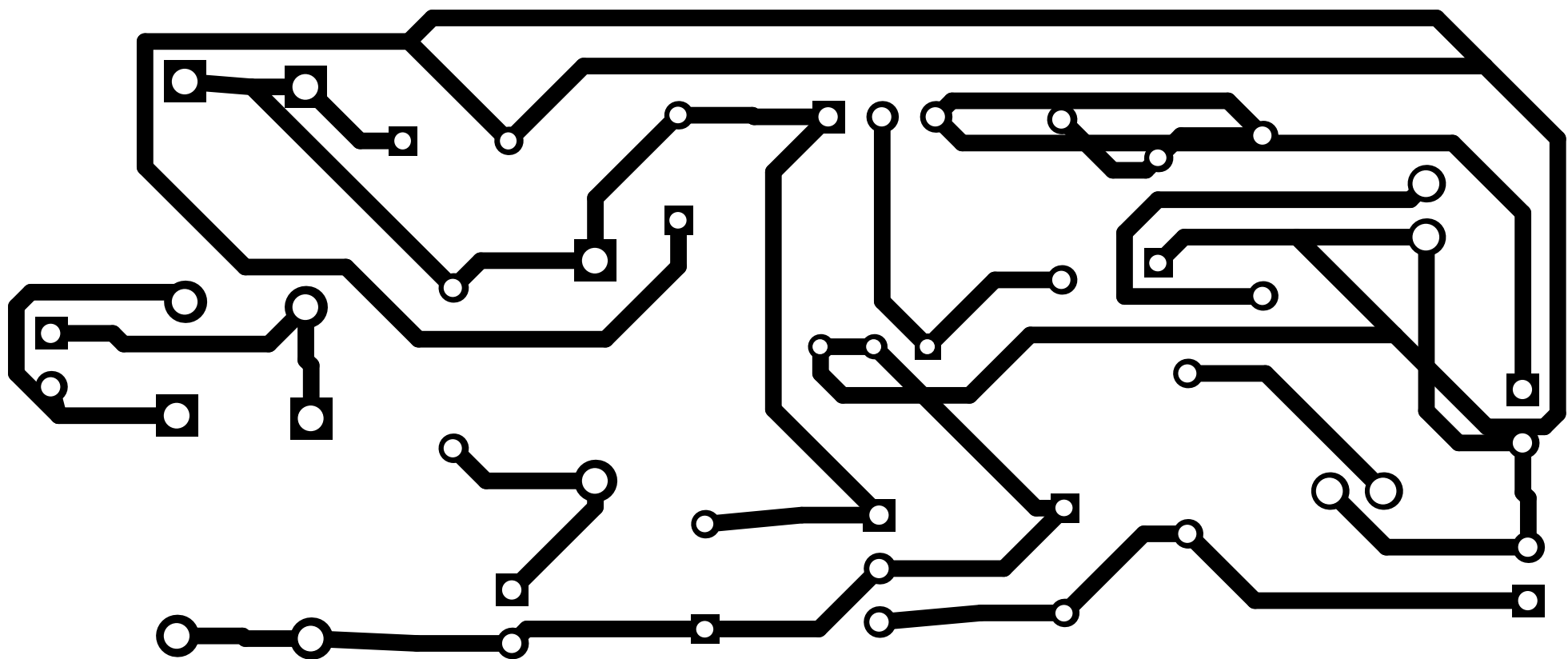Res1
1K

Rb
Res1
1K

Ry
Res1
1K

R
Red

B
Blue

Y
Yellow

GND

Title
Door Locking System (312006)

Size
A

Number

Revision

Date: 4/18/2015
File: C:\Documents and Settings\..\Door locking System.SchDoc

Sheet   of
Drawn By

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

P3
1 2 3
Header 3

P1
2
1
Header 2H

D1
Diode

D2
Diode

+ C1
Cap Pol1
100pF
GND

R1
Res1
1K

D5
D Schottky

C2
Cap
100pF
GND

R5
Res1
1K

R4
RPot
1K

C3
Cap
100pF
GND

R2
Res1
1K

P5
1
2
Header 2H
GND

D6
LED2
GND

D3
Diode

D4
Diode

GND

P2
1
2
Header 2H

P4
GND
1 2 3
GND
Header 3

C4
Cap
100pF
GND

GND

C5
Cap
100pF
GND

R3
Res1
1K

P6
1
2
Header 2H
GND

D7
LED2
GND

GND

Title			
Size A	Number		Revision
Date:	4/18/2015		Sheet of
File:	C:\Documents and Settings\..\LPS.SchDoc	Drawn By:	

Bill of Materials

Source Data From: **PCB All Data.PrjPcb**

Project: **PCB All Data.PrjPcb**

Variant: **None**

Creation Date: 4/18/2015   9:55:35 AM

Print Date: 42112   42112.41365

Footprint	Comment	LibRef	Designator	Description	Quantity
LED-0	Blue	LED3	B	Typical BLUE SiC LED	1
relay	Header 5	Header 5	B.Rel, S.Rel	Header, 5-Pin	2
HDR1X3	2N3904	2N3904	B.Trans, S.Trans	NPN General Purpose Amplifier	2
HDR1X2	Header 2	Header 2	Buzz, Inner S/W, Reset S/W, Sole	Header, 2-Pin	4
CAPR5-4X5	Cap2	Cap2	C	Capacitor	1
CAPR5-4X5	Cap Pol1	Cap Pol1	C1	Polarized Capacitor (Radial)	1
RAD-0.3	Cap	Cap	C2, C3, C4, C5	Capacitor	4
DIODE-0.7	Diode	Diode	D1, D2, D3, D4	Default Diode	4
DIODE-0.7	D Schottky	D Schottky	D5	Schottky Diode	1
DIODE-0.7	LED2	LED2	D6, D7	Typical RED, GREEN, YELLOW, AMBER GaAs LED	2
LED-0	Green	LED2	G	Typical RED, GREEN, YELLOW, AMBER GaAs LED	1
HDR1X8	Header 8	Header 8	Keypad, LCD	Header, 8-Pin	2
HDR1X2H	Header 2H	Header 2H	P1, P2, P5, P6	Header, 2-Pin, Right Angle	4
HDR1X3	Header 3	Header 3	P3, P4, Power	Header, 3-Pin	3
LED-0	Red	LED2	R	Typical RED, GREEN, YELLOW, AMBER GaAs LED	1
VR5	RPot	RPot	R4	Potentiometer	1
AXIAL-0.3	Res1	Res1	R, R1, R2, R3, R5, Rb, Rg, Rr, Rsw, Ry	Resistor	10
PDIP600-P40	PIC18F4520-I/P	PIC18F4520-I/P	U1	Enhanced Flash Microcontroller with 10-B A/D and nanoWatt Technology, 32K Flash 40-Pin PDIP, Industrial Temperature Rang	1
LED-0	Yellow	LED2	Y	Typical RED, GREEN, YELLOW, AMBER GaAs LED	1
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Approved	Notes