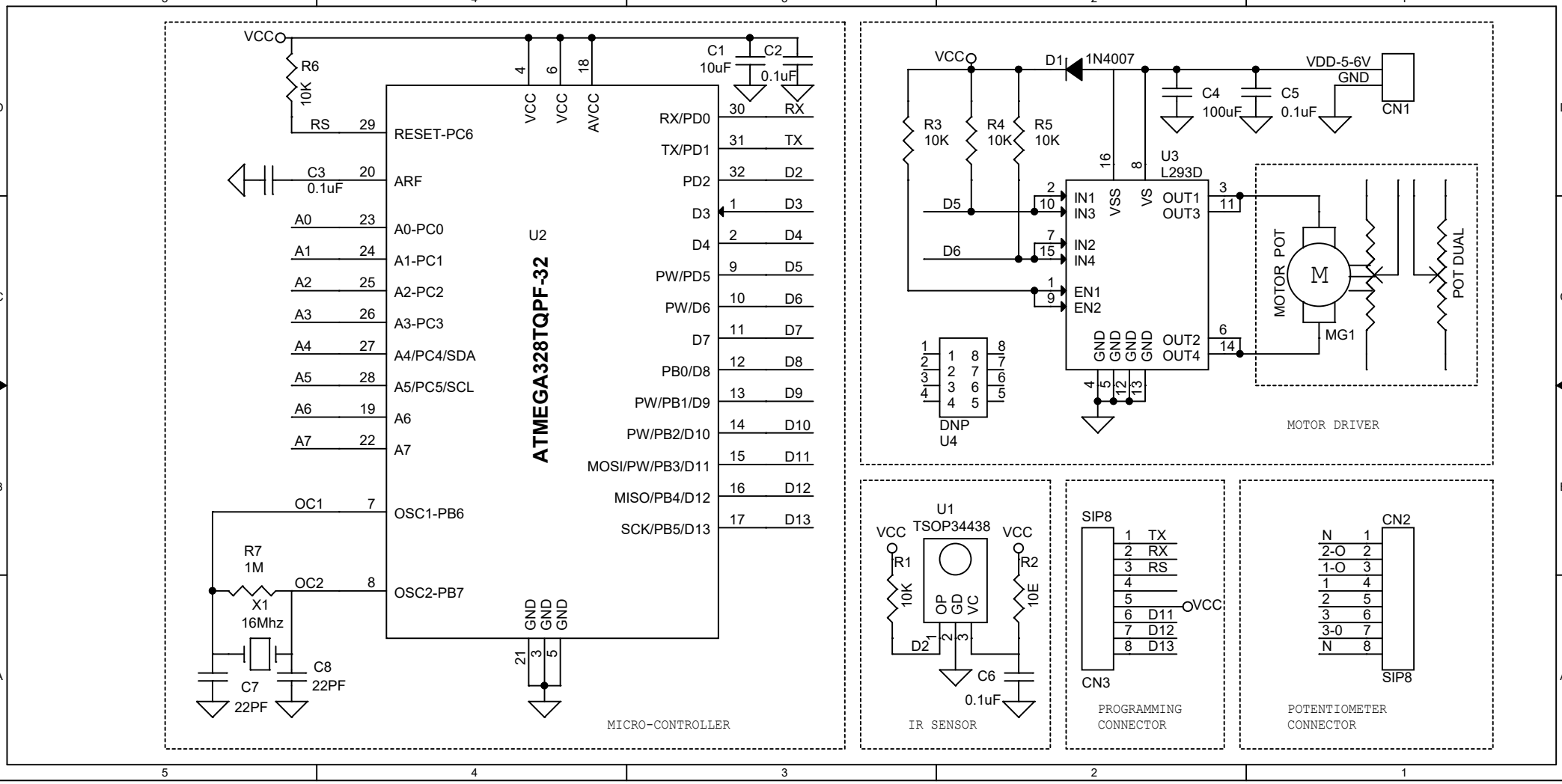
VCC
R6
10K
RS 29
RESET-PC6
C3
0.1uF
20
ARF
A0 23
A0-PC0
A1 24
A1-PC1
A2 25
A2-PC2
A3 26
A3-PC3
A4 27
A4/PC4/SDA
A5 28
A5/PC5/SCL
A6 19
A6
A7 22
A7
OC1 7
OSC1-PB6
OC2 8
OSC2-PB7
R7
1M
X1
16Mhz
C7
22PF
C8
22PF
4 VCC
6 VCC
18 AVCC
21 GND
3 GND
5 GND
U2
ATMEGA328TQPF-32
C1
10uF
C2
0.1uF
RX/PD0 30 RX
TX/PD1 31 TX
PD2 32 D2
D3 1 D3
D4 2 D4
PW/PD5 9 D5
PW/D6 10 D6
D7 11 D7
PB0/D8 12 D8
PW/PB1/D9 13 D9
PW/PB2/D10 14 D10
MOSI/PW/PB3/D11 15 D11
MISO/PB4/D12 16 D12
SCK/PB5/D13 17 D13
MICRO-CONTROLLER
VCC
D1
1N4007
VDD-5-6V
GND
CN1
C4
100uF
C5
0.1uF
R3
10K
R4
10K
R5
10K
16 VSS
8 VS
U3
L293D
D5
D6
IN1 2 10 IN3
IN2 7 15 IN4
EN1 1 9 EN2
OUT1 3 11 OUT3
OUT2 6 14 OUT4
GND 4 GND 5 GND 12 GND 13
MOTOR POT
M
MG1
POT DUAL
MOTOR DRIVER
DNP
U4
U1
TSOP34438
VCC
R1
10K
OP
GD
VC
D2
R2
10E
C6
0.1uF
IR SENSOR
SIP8
1 TX
2 RX
3 RS
4
5
6 D11
7 D12
8 D13
VCC
CN3
PROGRAMMING
CONNECTOR
CN2
N 1
2-O 2
1-O 3
1 4
2 5
3 6
3-0 7
N 8
SIP8
POTENTIOMETER
CONNECTOR