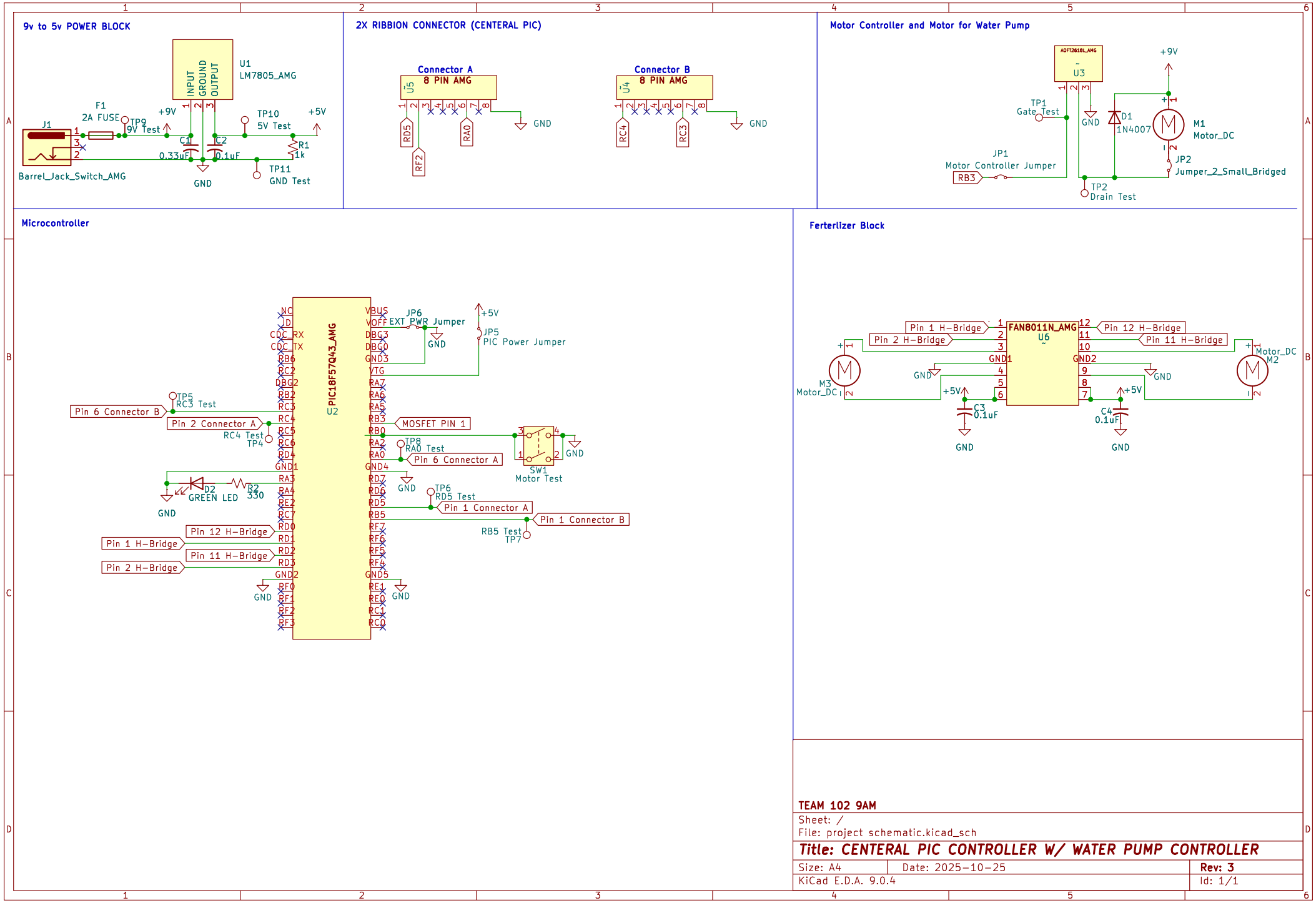
9v to 5v POWER BLOCK
U1
LM7805_AMG
INPUT
GROUND
OUTPUT
F1
2A FUSE
J1
Barrel_Jack_Switch_AMG
TP9
9V Test
+9V
C1
0.33uF
C2
0.1uF
GND
TP10
5V Test
+5V
R1
1k
TP11
GND Test
2X RIBBION CONNECTOR (CENTERAL PIC)
Connector A
8 PIN AMG
U5
RD5
RF2
RA0
GND
Connector B
8 PIN AMG
U4
RC4
RC3
GND
Motor Controller and Motor for Water Pump
AOFT2618L_AMG
U3
+9V
TP1
Gate Test
GND
D1
1N4007
M1
Motor_DC
JP1
Motor Controller Jumper
RB3
JP2
Jumper_2_Small_Bridged
TP2
Drain Test
Microcontroller
PIC18F57Q43_AMG
U2
JP6
EXT PWR Jumper
GND
+5V
JP5
PIC Power Jumper
TP5
RC3 Test
Pin 6 Connector B
Pin 2 Connector A
RC4 Test
TP4
MOSFET PIN 1
TP8
RA0 Test
Pin 6 Connector A
SW1
Motor Test
D2
GREEN LED
R2
330
TP6
RD5 Test
Pin 1 Connector A
Pin 1 Connector B
RB5 Test
TP7
Pin 12 H-Bridge
Pin 1 H-Bridge
Pin 11 H-Bridge
Pin 2 H-Bridge
Ferterlizer Block
FAN8011N_AMG
U6
Pin 1 H-Bridge
Pin 2 H-Bridge
Pin 12 H-Bridge
Pin 11 H-Bridge
M3
Motor_DC
M2
Motor_DC
C3
0.1uF
C4
0.1uF
TEAM 102 9AM
Sheet: /
File: project schematic.kicad_sch
Title: CENTERAL PIC CONTROLLER W/ WATER PUMP CONTROLLER
Size: A4
Date: 2025-10-25
Rev: 3
KiCad E.D.A. 9.0.4
Id: 1/1