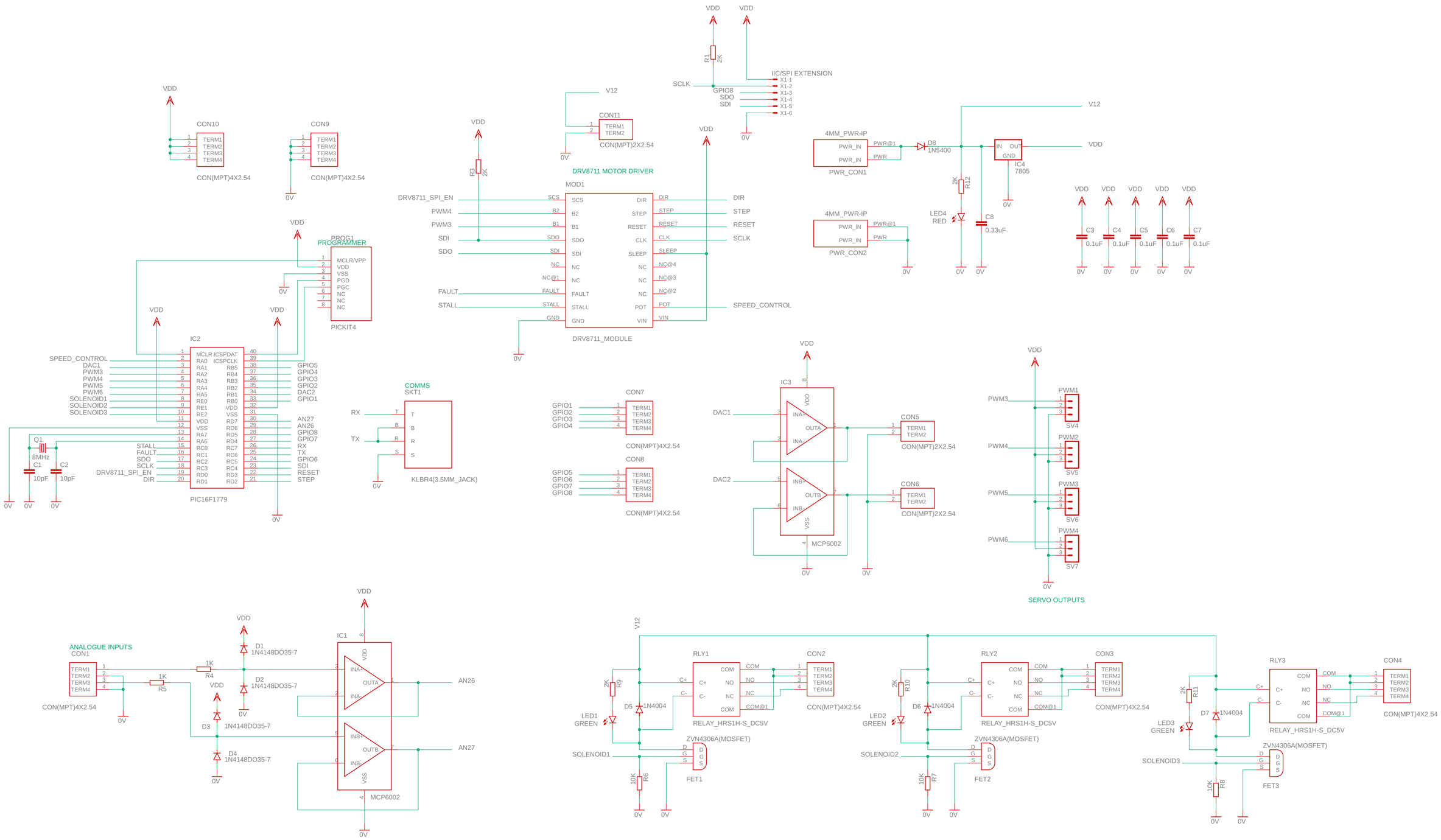
CON10
CON(MPT)4X2.54
CON9
CON(MPT)4X2.54
CON11
CON(MPT)2X2.54
V12
VDD
0V
R3 2K
R1 2K
SCLK
IIC/SPI EXTENSION
GPIO8
SDO
SDI
DRV8711 MOTOR DRIVER
MOD1
DRV8711_SPI_EN
PWM4
PWM3
SDI
SDO
FAULT
STALL
DIR
STEP
RESET
SCLK
SPEED_CONTROL
DRV8711_MODULE
4MM_PWR-IP
PWR_CON1
PWR_CON2
D8 1N5400
IC4 7805
R12 2K
LED4 RED
C8 0.33uF
C3 0.1uF
C4 0.1uF
C5 0.1uF
C6 0.1uF
C7 0.1uF
PROG1
PROGRAMMER
PICKIT4
IC2
PIC16F1779
SPEED_CONTROL
DAC1
PWM3
PWM4
PWM5
PWM6
SOLENOID1
SOLENOID2
SOLENOID3
STALL
FAULT
SDO
SCLK
DRV8711_SPI_EN
DIR
GPIO5
GPIO4
GPIO3
GPIO2
DAC2
GPIO1
AN27
AN26
GPIO8
GPIO7
RX
TX
GPIO6
SDI
RESET
STEP
Q1 8MHz
C1 10pF
C2 10pF
COMMS
SKT1
KLBR4(3.5MM_JACK)
CON7
CON8
CON(MPT)4X2.54
IC3
MCP6002
CON5
CON6
CON(MPT)2X2.54
PWM1
SV4
SV5
SV6
SV7
SERVO OUTPUTS
ANALOGUE INPUTS
CON1
CON(MPT)4X2.54
R4 1K
R5 1K
D1 1N4148DO35-7
D2 1N4148DO35-7
D3 1N4148DO35-7
D4 1N4148DO35-7
IC1
MCP6002
AN26
AN27
RLY1
RLY2
RLY3
RELAY_HRS1H-S_DC5V
CON2
CON3
CON4
CON(MPT)4X2.54
R9 2K
R10 2K
R11 2K
D5 1N4004
D6 1N4004
D7 1N4004
LED1 GREEN
LED2 GREEN
LED3 GREEN
ZVN4306A(MOSFET)
FET1
FET2
FET3
R6 10K
R7 10K
R8 10K