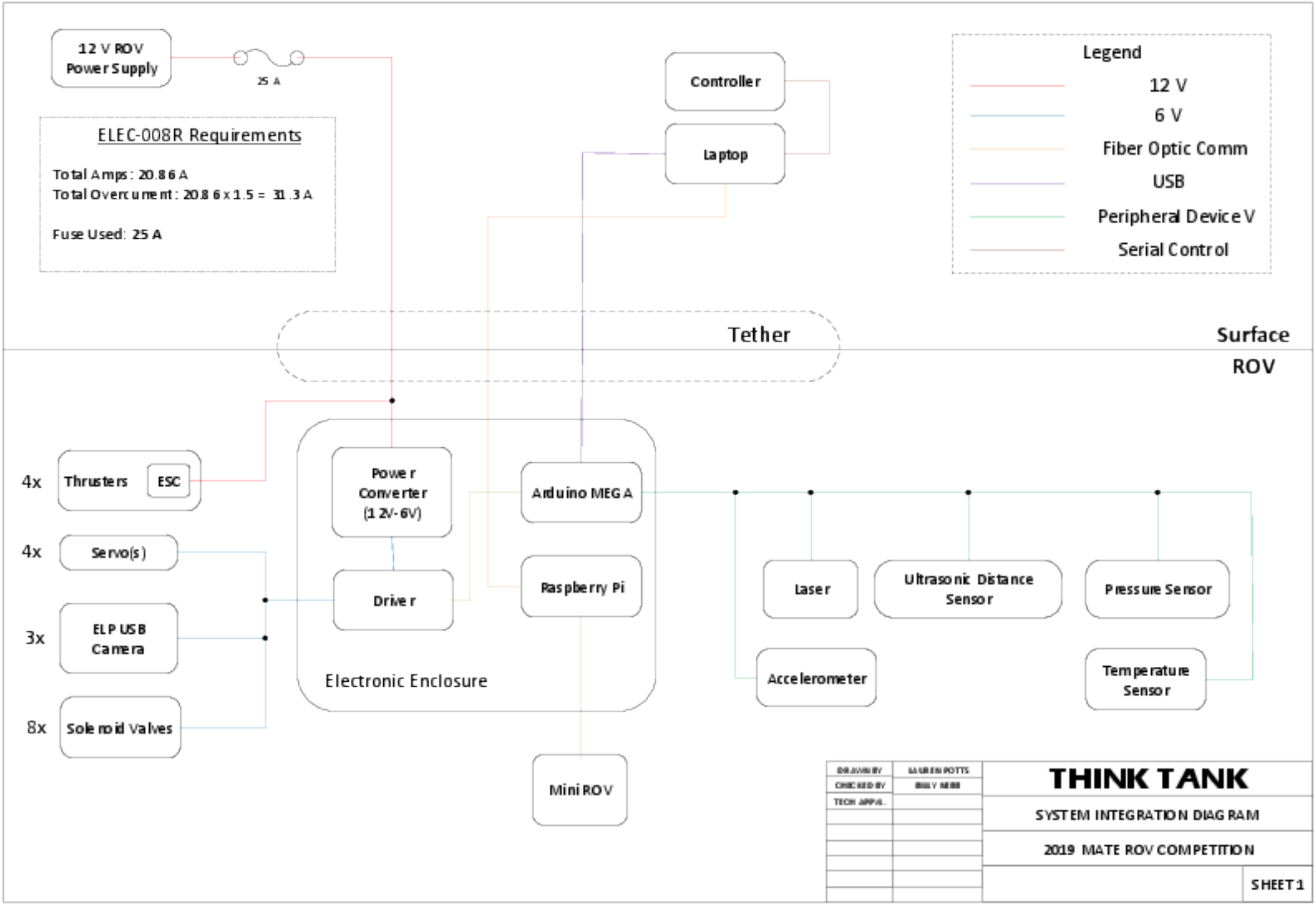
12 V ROV Power Supply
25 A
ELEC-008R Requirements
Total Amps: 20.86 A
Total Overcurrent: 20.86 x 1.5 = 31.3 A
Fuse Used: 25 A
Controller
Laptop
Legend
12 V
6 V
Fiber Optic Comm
USB
Peripheral Device V
Serial Control
Tether
Surface
ROV
4x
Thrusters
ESC
4x
Servo(s)
3x
ELP USB Camera
8x
Solenoid Valves
Power Converter (12V-6V)
Driver
Electronic Enclosure
Arduino MEGA
Raspberry Pi
Mini ROV
Laser
Ultrasonic Distance Sensor
Pressure Sensor
Accelerometer
Temperature Sensor
THINK TANK
SYSTEM INTEGRATION DIAGRAM
2019 MATE ROV COMPETITION
SHEET 1