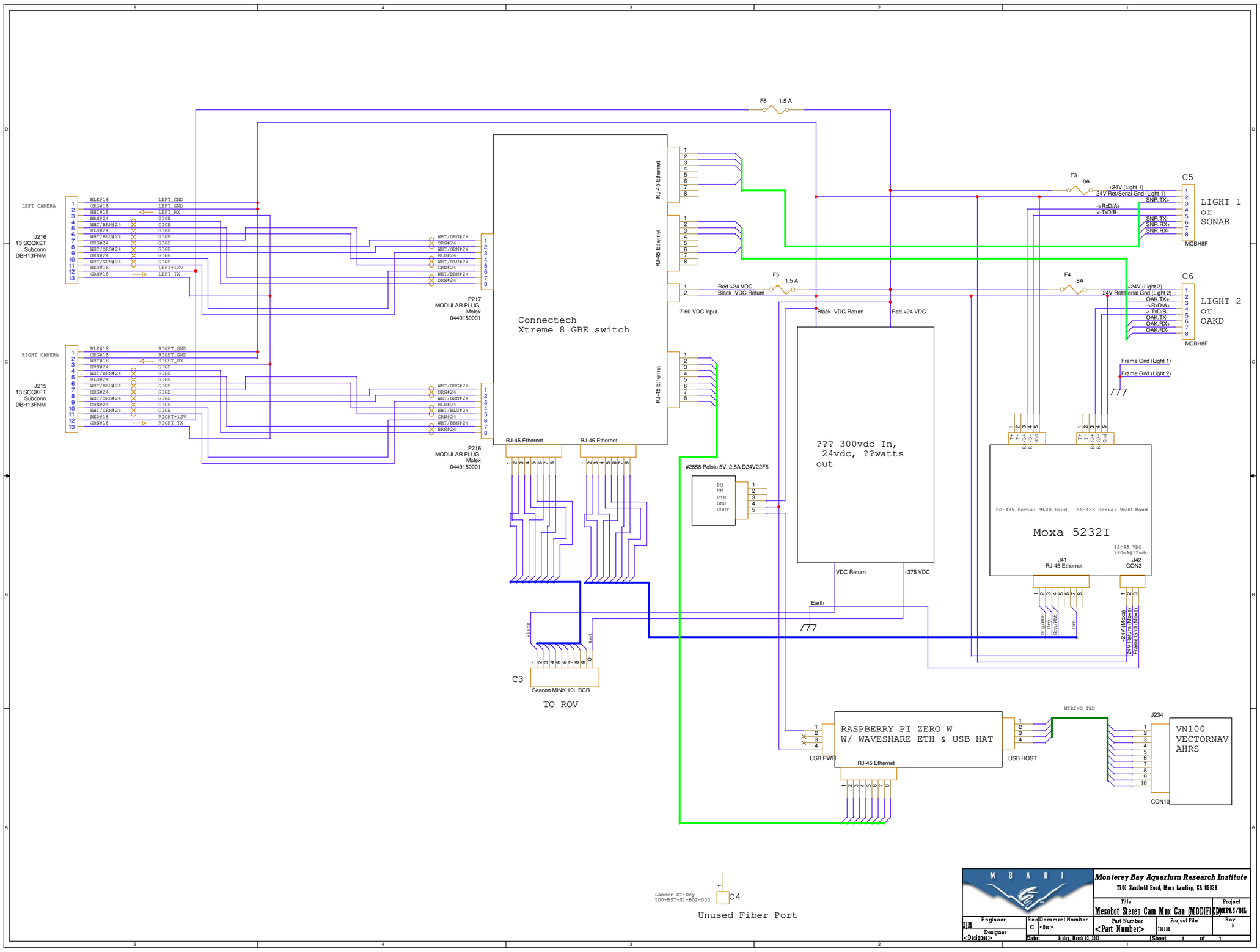
F6 1.5 A
LEFT CAMERA
J216
13 SOCKET
Subconn
DBH13FNM
BLK#18 LEFT_GND
ORG#18 LEFT_GND
WHT#18 LEFT_RX
BRN#24 GIGE
WHT/BRN#24 GIGE
BLU#24 GIGE
WHT/BLU#24 GIGE
ORG#24 GIGE
WHT/ORG#24 GIGE
GRN#24 GIGE
WHT/GRN#24 GIGE
RED#18 LEFT+12V
GRN#18 LEFT_TX
P217
MODULAR PLUG
Molex
0449150001
RIGHT CAMERA
J215
13 SOCKET
Subconn
DBH13FNM
BLK#18 RIGHT_GND
ORG#18 RIGHT_GND
WHT#18 RIGHT_RX
BRN#24 GIGE
WHT/BRN#24 GIGE
BLU#24 GIGE
WHT/BLU#24 GIGE
ORG#24 GIGE
WHT/ORG#24 GIGE
GRN#24 GIGE
WHT/GRN#24 GIGE
RED#18 RIGHT+12V
GRN#18 RIGHT_TX
P216
MODULAR PLUG
Molex
0449150001
Connectech
Xtreme 8 GBE switch
RJ-45 Ethernet
RJ-45 Ethernet
RJ-45 Ethernet
RJ-45 Ethernet
RJ-45 Ethernet
F5 1.5 A
Red +24 VDC
Black VDC Return
7-60 VDC Input
#2858 Pololu 5V, 2.5A D24V22F5
PG
EN
VIN
GND
VOUT
??? 300vdc In,
24vdc, ??watts
out
Black VDC Return
Red +24 VDC
VDC Return
+375 VDC
Earth
Black
Red
C3
Seacon MINK 10L BCR
TO ROV
F3 8A
+24V (Light 1)
24V Ret/Serial Gnd (Light 1)
SNR.TX+
->RxD/A+
<-TxD/B-
SNR.TX-
SNR.RX+
SNR.RX-
C5
MCBH8F
LIGHT 1
or
SONAR
F4 8A
+24V (Light 2)
24V Ret/Serial Gnd (Light 2)
OAK.TX+
->RxD/A+
<-TxD/B-
OAK.TX-
OAK.RX+
OAK.RX-
C6
MCBH8F
LIGHT 2
or
OAKD
Frame Gnd (Light 1)
Frame Gnd (Light 2)
RS-485 Serial 9600 Baud
RS-485 Serial 9600 Baud
Moxa 5232I
12-48 VDC
280mA@12vdc
J41
RJ-45 Ethernet
J42
CON3
Org/Wht
Org
Grn/Wht
Grn
-24V (Moxa)
24V Return (Moxa)
Frame Gnd (Moxa)
RASPBERRY PI ZERO W
W/ WAVESHARE ETH & USB HAT
USB PWR
USB HOST
RJ-45 Ethernet
WIRING TBD
J234
VN100
VECTORNAV
AHRS
CON10
Lancer ST-Dry
500-BST-S1-B02-000
C4
Unused Fiber Port
M B A R I
Monterey Bay Aquarium Research Institute
7700 Sandholdt Road, Moss Landing, CA 95039
Title
Mesobot Stereo Cam Mux Can (MODIFIED)
Project
MPAS/BIL
Engineer
EJM
Designer
<Designer>
Size
C
Document Number
<Doc>
Part Number
<Part Number>
Project File
201130
Rev
B
Date: Friday, March 03, 2023
Sheet 1 of 1