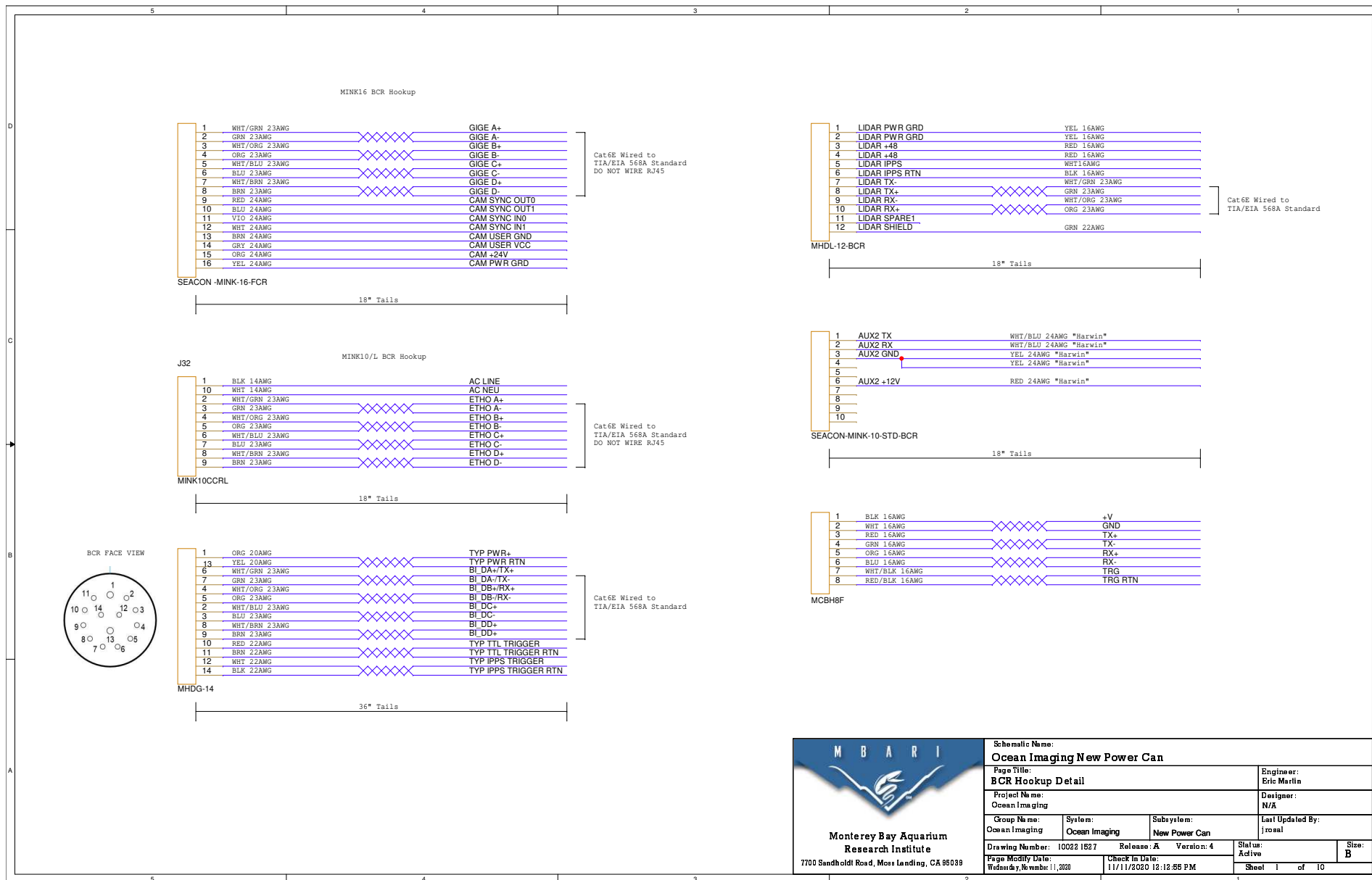




CCP Backside View

J13
MHDG-14

1	ORG 20AWG	Pwr+
13	YEL 20AWG	Pwr Rtn
6	WHT/GRN 23AWG	BI DA+/TX+
7	GRN 23AWG	BI DA-/TX-
4	WHT/ORG 23AWG	BI DB+/RX+
5	ORG 23AWG	BI DB-/RX-
2	WHT/BLU 23AWG	BI DC+
3	BLU 23AWG	BI DC-
8	WHT/BRN 23AWG	BI DD+
9	BRN 23AWG	BI DD-
10	RED 22AWG	TTL Trigger
11	BRN 22AWG	TTL Trigger Rtn
12	WHT 22AWG	IPPS Trigger
14	BLK 22AWG	IPPS Trigger Rtn

Pwr+
Pwr Rtn
BI DA+/TX+
BI DA-/TX-
BI DB+/RX+
BI DB-/RX-
BI DC+
BI DC-
BI DD+
BI DD-
TTL Trigger
TTL Trigger Rtn
IPPS Trigger
IPPS Trigger Rtn

ORG 20AWG
YEL 20AWG
WHT/GRN 23AWG
GRN 23AWG
WHT/ORG 23AWG
ORG 23AWG
WHT/BLU 23AWG
BLU 23AWG
WHT/BRN 23AWG
BRN 23AWG
RED 22AWG
BRN 22AWG
WHT 22AWG
BLK 22AWG

J14
MHDG-14

CCP Backside View

98" +/- 2" length face to face

Note: Keep Urethane jacket < 2in from connector body for molding



Schematic Name:

Ocean Imaging New Power Can

Page Title:
MHDG14 to MHDG14

Engineer:
Eric Martin

Project Name:
Ocean Imaging

Designer:
N/A

Group Name:
Ocean Imaging

System:
Ocean Imaging

Subsystem:
New Power Can

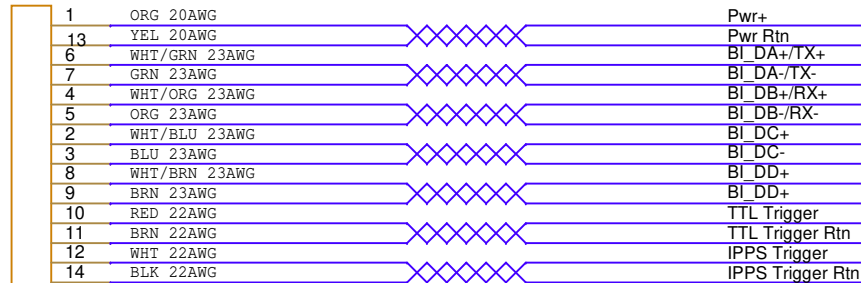
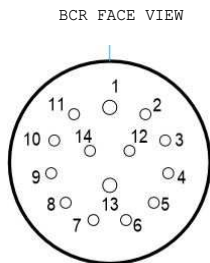
Last Updated By:
jrosal

Drawing Number: 100221527 Release: A Version: 4

Status:
Active Size:
A

Page Modify Date:
Wednesday, November 11, 2020 Check In Date:
11/11/2020 12:12:55 PM

Sheet 2 of 10



Cat6E Wired to
TIA/EIA 568A Standard

MHDG-14

36" Tails



Schematic Name:

Ocean Imaging New Power Can

Page Title:

MHDG14BCR Hookup

Engineer:

Eric Martin

Project Name:

Ocean Imaging

Designer:

N/A

Group Name:

Ocean Imaging

System:

Ocean Imaging

Subsystem:

New Power Can

Last Updated By:

jrosal

Drawing Number: 100221527

Release: A

Version: 4

Status:

Active

Size:

A

Page Modify Date:

Wednesday, November 11, 2020

Check In Date:

11/11/2020 12:12:55 PM

Sheet 3 of 10

110/240V AC/DC Power

Fiber0

Left Camera

Right Camera

Reson Sonar

Lidar

MOD1
Per Board

AC/DC Line In

MOD6
FIBER IN

MOD5
XDG004.1

MOD4
PortServer T54-ME1

MOD3
Moxa NS320-T

BusA0 24V
BusA1 24V
BusA2 24V
BusA3 24V
BusB0 24V
BusB1 24V
BusB2 24V
BusC0 48V
BusC0 12V
XDG 24V
MOXA 24V
DIGI 24V

CAM_PWR
MBE_PWR
ECHO TECH_PWR
STROBE1_PWR
STROBE2_PWR
ROT_PWR
LIDAR_PWR
AUX2 12V
AUX2_PWR
MOXA_PWR
DIGI_PWR

ROT1_RS485
ROT1_RS485A
ROT1_RS485B
ROT_GND
ROT +24V
ROT2_RS485A
ROT2_RS485B
ROT2_RS485

J17
SEACON-MINK10-STD-BCR

Rotator 2 RS485A
is on same ping as
AUX2 12V on
science connector.
Transceiver in
rotator should be
able to handle this
if mis-connected.

AUX2_TX
AUX2_RX
AUX2_GND
AUX2 24V
SVP70TX
SBE49TX

J18
SEACON-MINK10-STD-BCR

AUX2_SCI

STROBE1_PWR
STROBE1_GND
STROBE1_24V
STROBE2_24V
STROBE2_PWR
STROBE2_GND

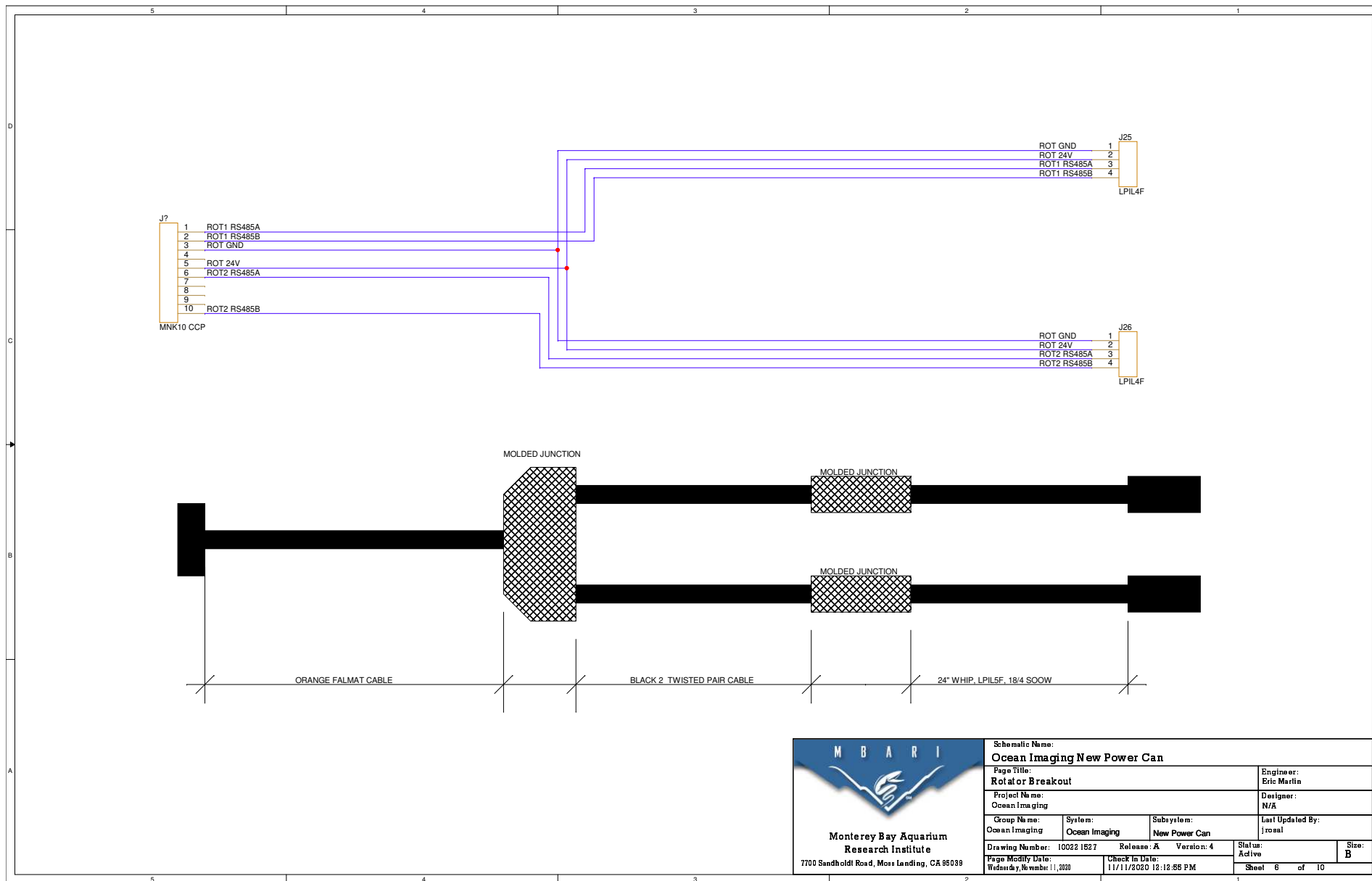
J19
HEADERS

STROBE_PWR/TRG

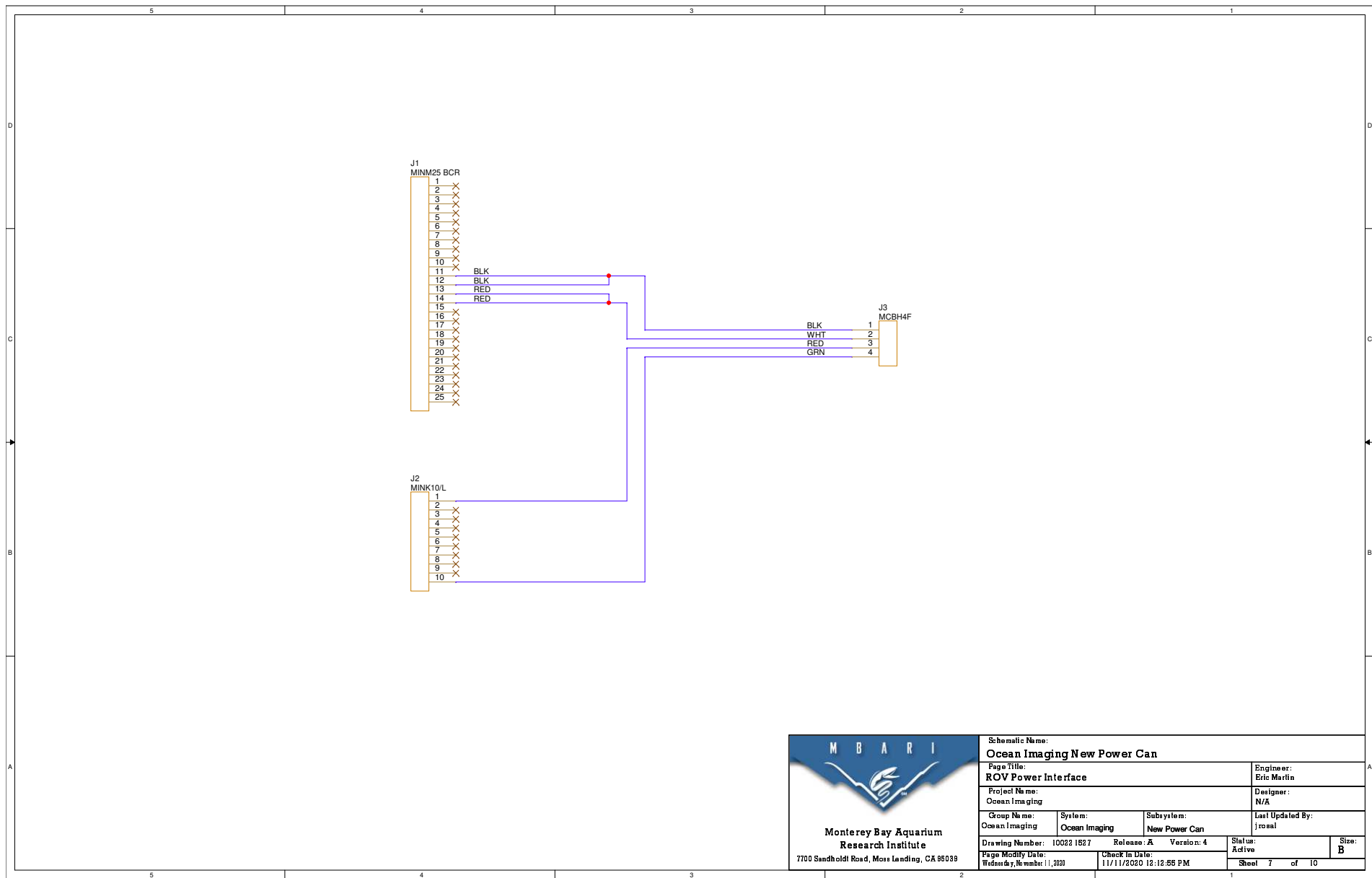


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Research Institute
7700 Sandfield Road, Moss Landing, CA 95038

Sheet Name: Ocean Imaging New Power Can			
Page Title: Power Can Wiring	Project Name: Ocean Imaging	Engineer: Eric Martin	Designer: WJ
Group Name: Ocean Imaging	System: Ocean Imaging	Subsystem: New Power Can	Last Updated By: jrcal
Drawing Number: 100221537	Release: A	Version: 4	Status: Active
Released By: R. Martin	Released Date: 11/11/2010 12:11:55 PM	Sheet: 4	of 10



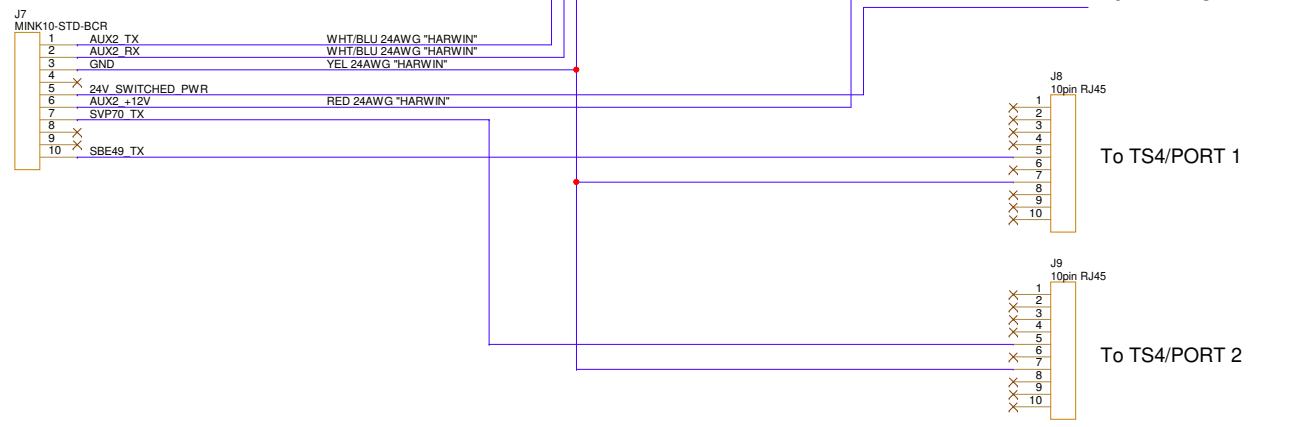
Schematic Name: Ocean Imaging New Power Can					
Page Title: Rotator Breakout			Engineer: Eric Martin		
Project Name: Ocean Imaging			Designer: N/A		
Group Name: Ocean Imaging		System: Ocean Imaging	Subsystem: New Power Can	Last Updated By: jrcal	
Drawing Number: 10022 1627		Release: A	Version: 4	Status: Active	Size: B
Page Modify Date: Wednesday, November 11, 2020		Check in Date: 11/11/2020 12:12:55 PM		Sheet 6 of 10	



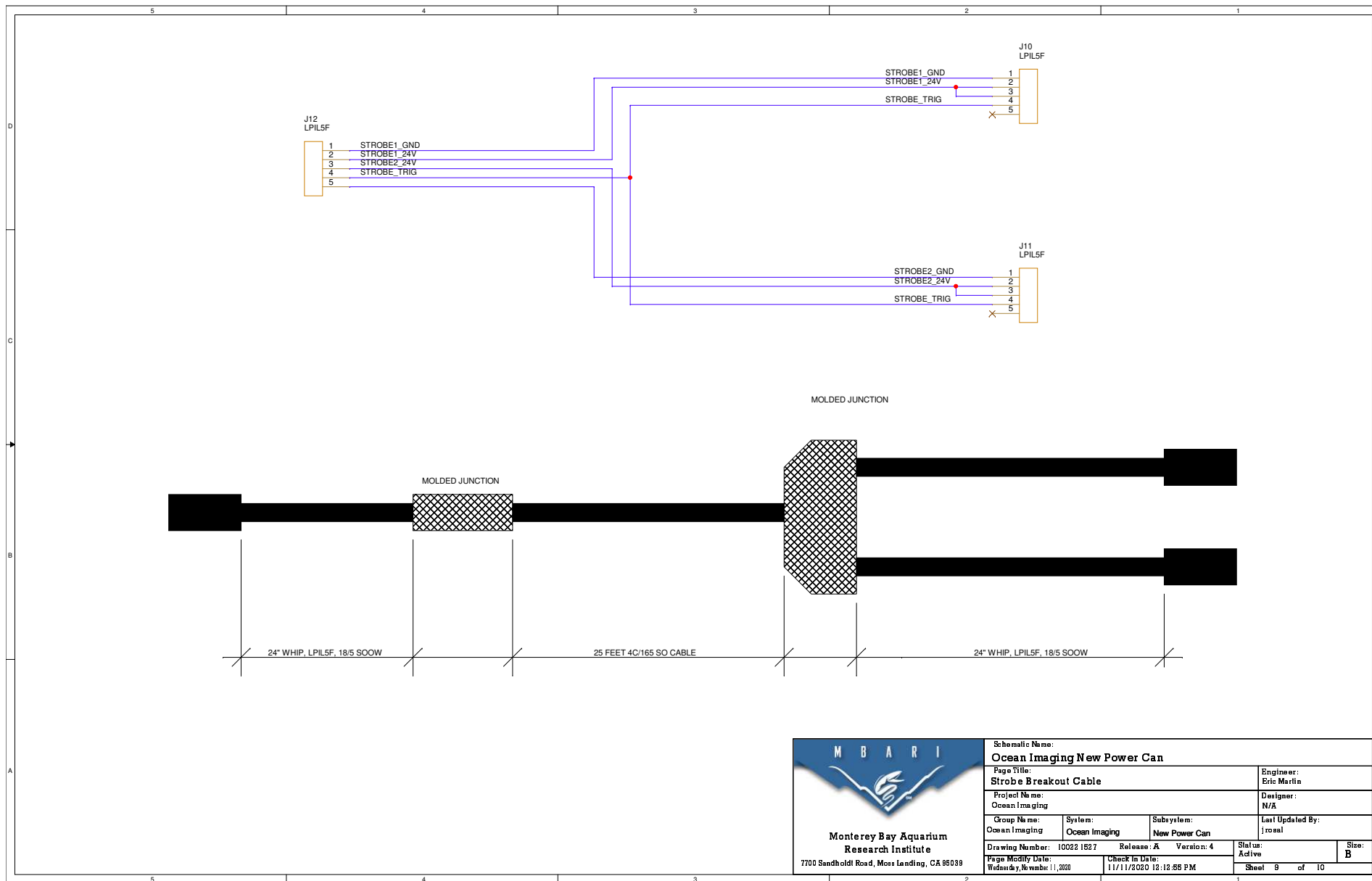


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Schematic Name: Ocean Imaging New Power Can			
Page Title: ROV Power Interface		Engineer: Eric Martin	
Project Name: Ocean Imaging		Designer: N/A	
Group Name: Ocean Imaging	System: Ocean Imaging	Subsystem: New Power Can	Last Updated By: jrcal
Drawing Number: 10022 1627	Release: A	Version: 4	Status: Active
Page Modify Date: Wednesday, November 11, 2020	Check in Date: 11/11/2020 12:12:55 PM		Size: B
Sheet 7 of 10			



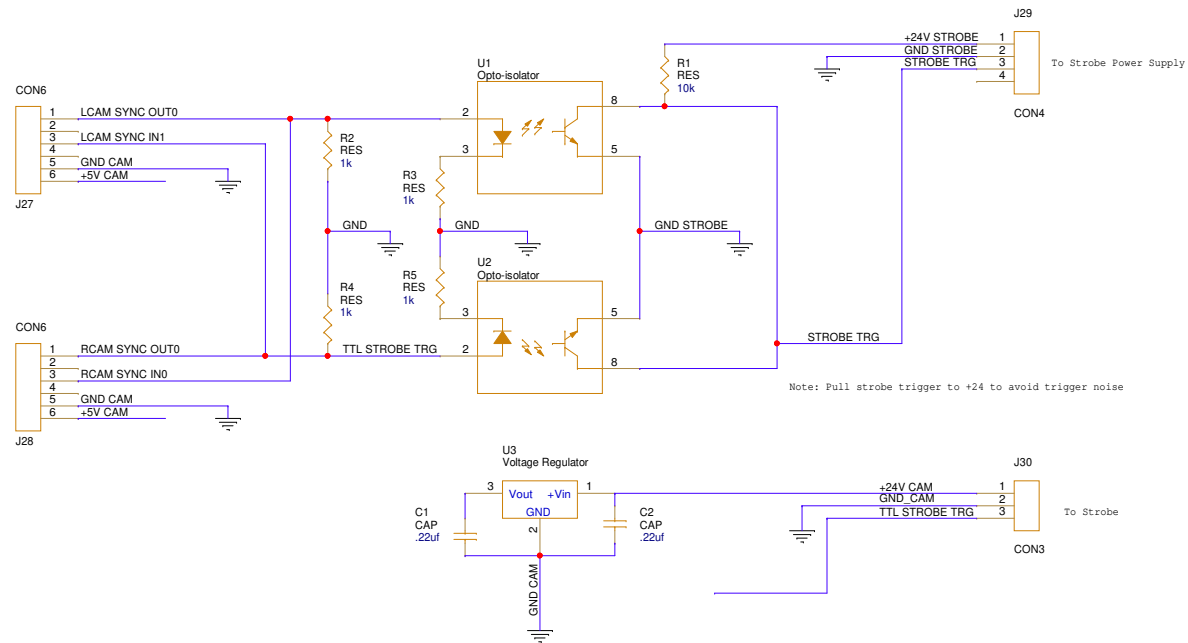
Schematic Name: Ocean Imaging New Power Can				
Page Title: Science Bulkhead Detail			Engineer: Eric Martin	
Project Name: Ocean Imaging			Designer: N/A	
Group Name: Ocean Imaging	System: Ocean Imaging	Subsystem: New Power Can	Last Updated By: jrcal	
Drawing Number: 10022 1527		Release: A	Version: 4	Status: Active
Page Modify Date: Wednesday, November 11, 2020		Check In Date: 11/11/2020 12:15:55 PM		Size: B
Sheet 8 of 10				





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7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: Ocean Imaging New Power Can					
Page Title: Strobe Breakout Cable			Engineer: Eric Martin		
Project Name: Ocean Imaging			Designer: N/A		
Group Name: Ocean Imaging	System: Ocean Imaging	Subsystem: New Power Can		Last Updated By: jrcal	
Drawing Number: 10022 1627	Release: A	Version: 4	Status: Active	Size: B	
Page Modify Date: Wednesday, November 11, 2020		Check in Date: 11/11/2020 12:12:55 PM		Sheet 9 of 10	



Schematic Name: Ocean Imaging New Power Can					
Page Title: Strobe Trigger			Engineer: Eric Martin		
Project Name: Ocean Imaging			Designer: N/A		
Group Name: Ocean Imaging	System: Ocean Imaging	Subsystem: New Power Can	Last Updated By: jroal		
Drawing Number: 10022 1827		Release: A	Version: 4	Status: Active	Size: B
Page Modify Date: Wednesday, November 11, 2020		Check in Date: 11/11/2020 12:12:55 PM		Sheet 10 of 10	