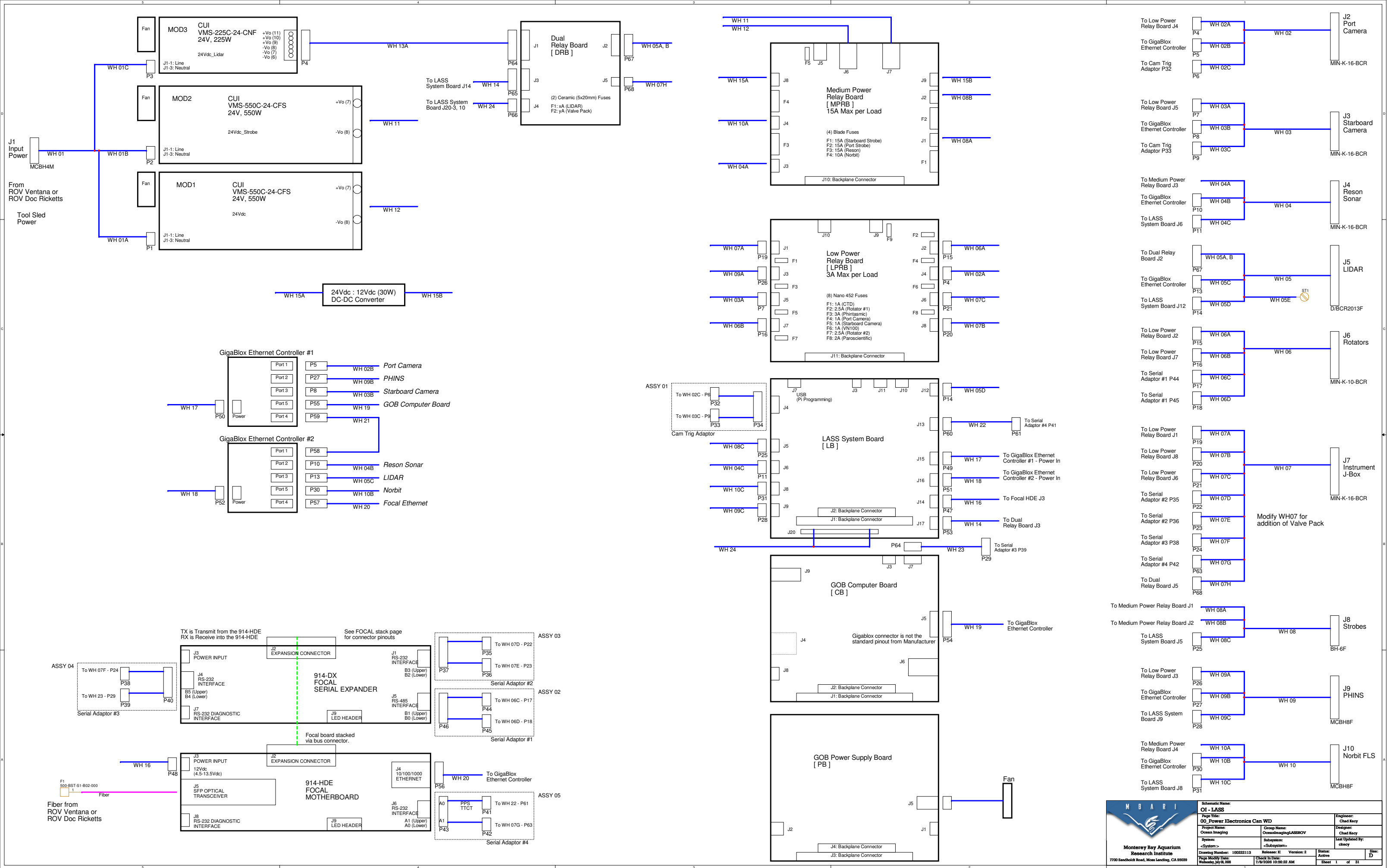
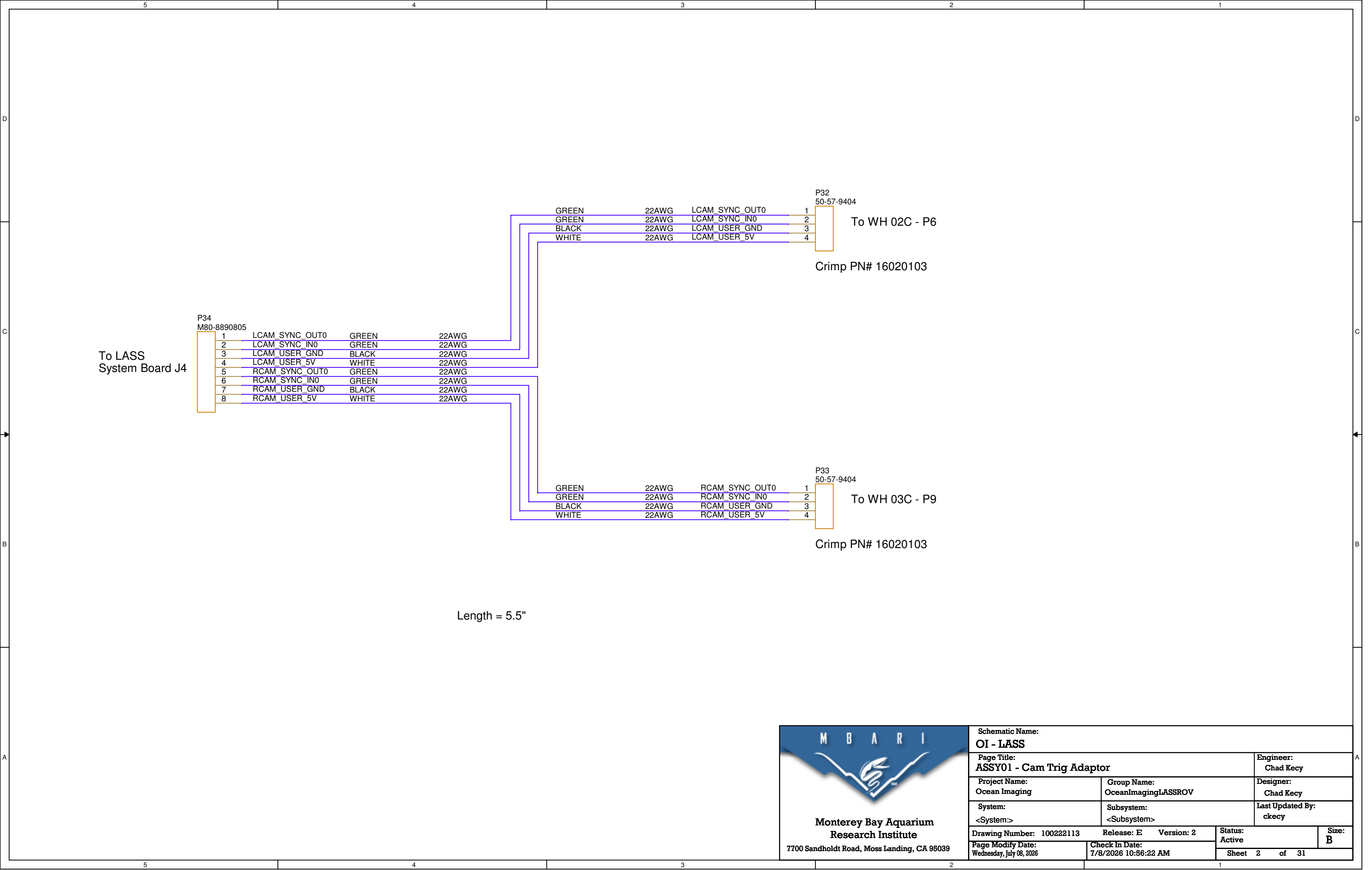
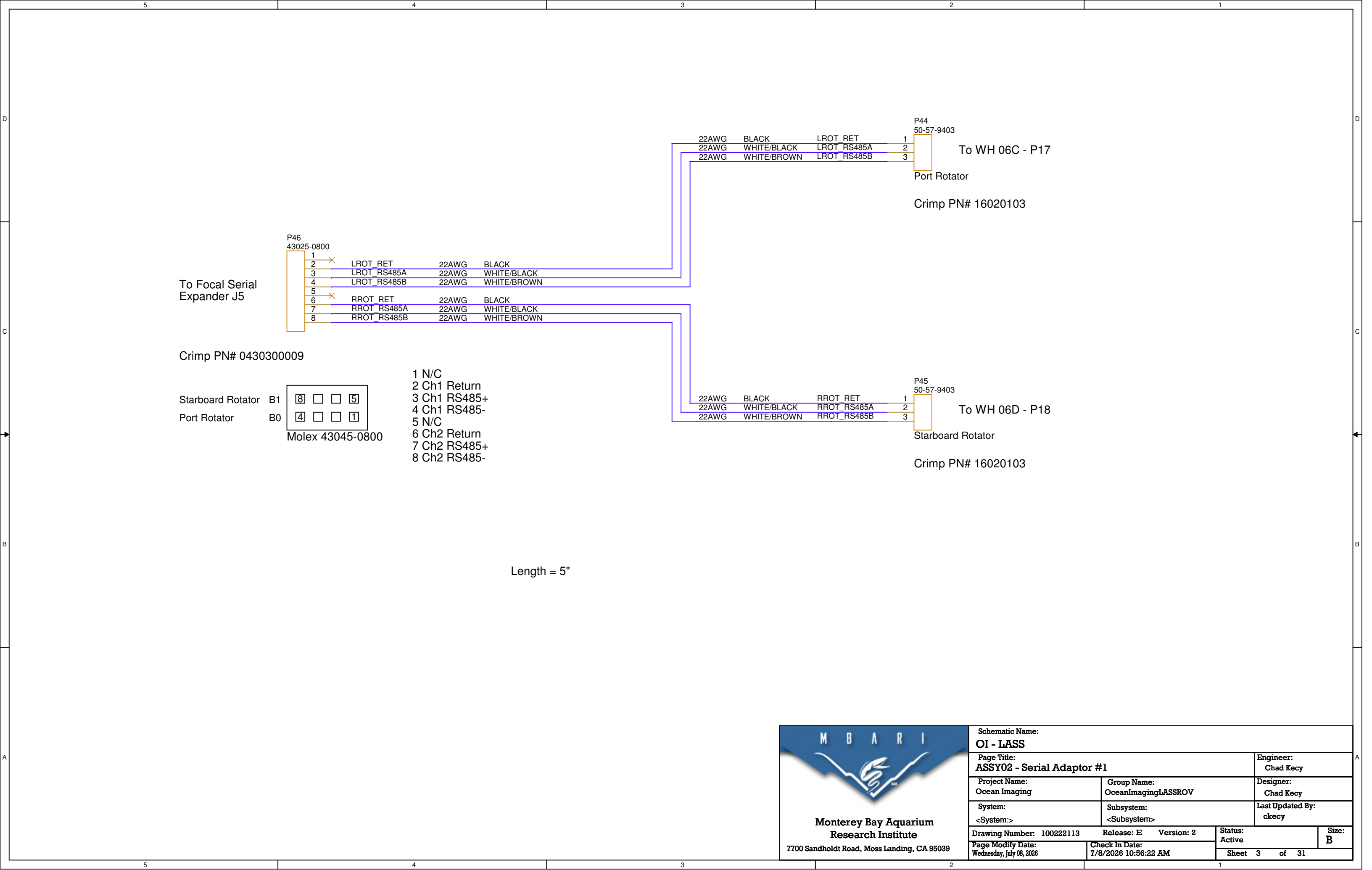






**Monterey Bay Aquarium
Research Institute**
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: OI - LASS			
Page Title: ASSY01 - Cam Trig Adaptor			Engineer: Chad Key
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV	Designer: Chad Key	
System: <System>	Subsystem: <Subsystem>	Last Updated By: ckey	
Drawing Number: 100222113	Release: E	Version: 2	Status: Active
Page Modify Date: Wednesday, July 08, 2026	Check In Date: 7/8/2026 10:56:22 AM	Sheet 2 of 31	
		Size: B	

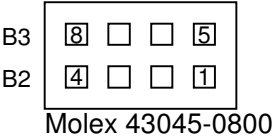


Schematic Name:				
OI - LASS				
Page Title: ASSY02 - Serial Adaptor #1			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
Sheet 3 of 31				

To Focal Serial
Expander J1

Crimp PN# 0430300009

Paroscientific
CTD



- 1 Ch1 RS232 RX
- 2 Ch1 Return
- 3 Ch1 N/C
- 4 Ch1 RS232 TX
- 5 Ch2 RS232 RX
- 6 Ch2 Return
- 7 Ch2 N/C
- 8 Ch2 RS232 TX

Length = 5.5"

- 22AWG BLACK CTD_RET 1
- 22AWG WHITE/BLACK CTD_RS232_RX 2
- 22AWG WHITE/BROWN CTD_RS232_TX 3



To WH 07D - P22

Crimp PN# 16020103

- 22AWG BLACK PARO_RET 1
- 22AWG WHITE/BLACK PARO_RS232_RX 2
- 22AWG WHITE/BROWN PARO_RS232_TX 3



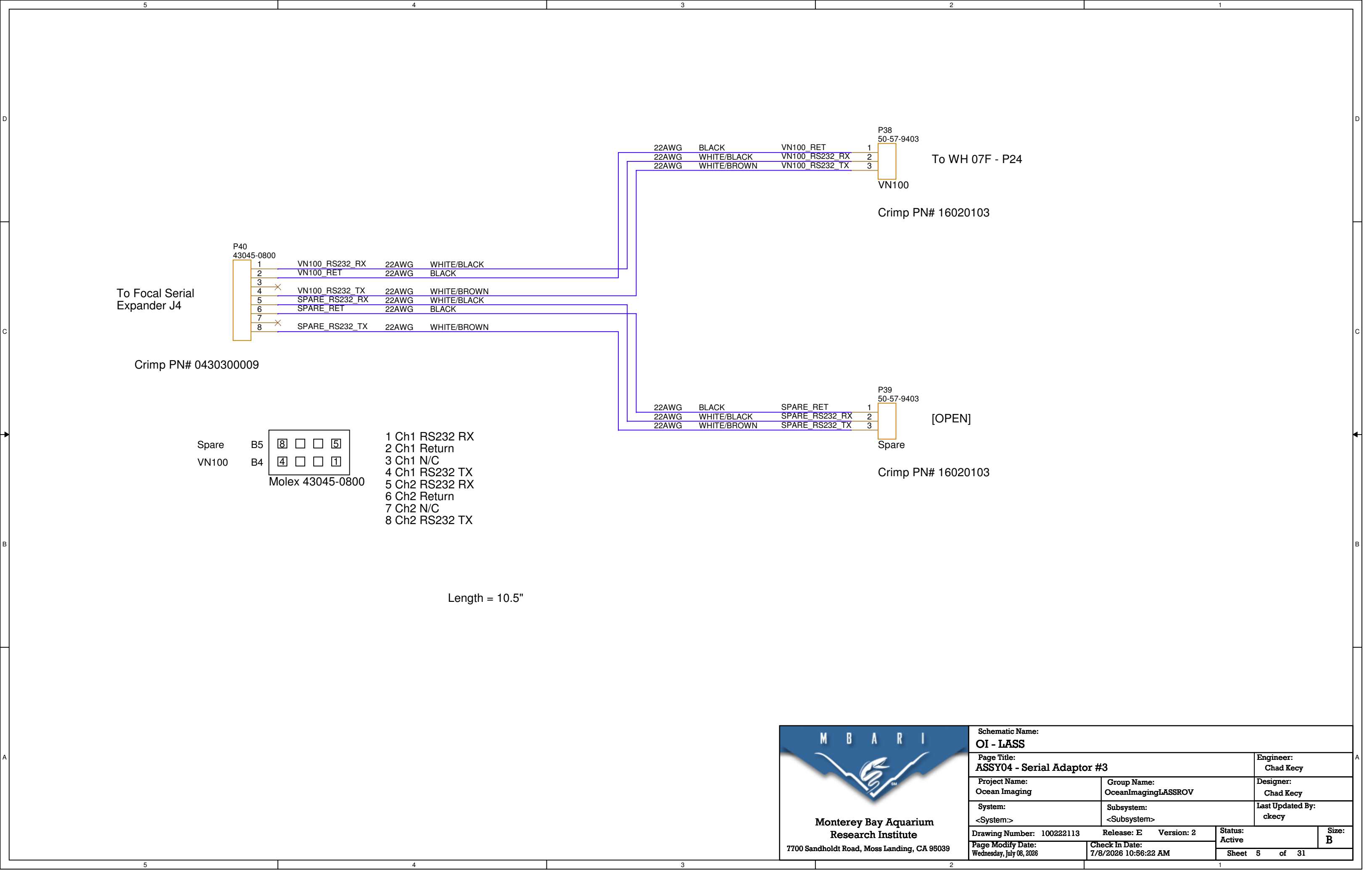
To WH 07E - P23

Crimp PN# 16020103

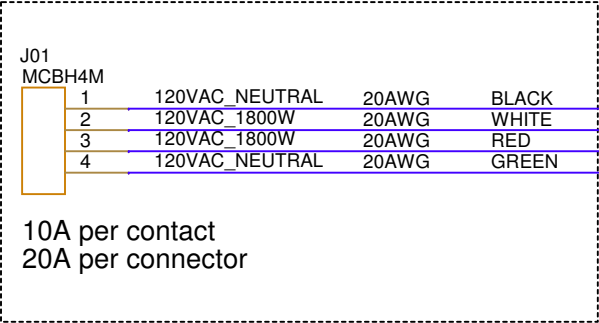


**Monterey Bay Aquarium
Research Institute**
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name:				
OI - LASS				
Page Title: ASSY03 - Serial Adaptor #2			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
Sheet 4 of 31				



Endcap J1



Subconn bulkhead



inline splices

WH 01C

WHITE/RED
WHITE/GREY



P3

Plug Body: VHR-2N
Plug Contact: SVH-21T-P1.1

To 24V_LiDAR AC/DC 225W Power Supply

WH 01B

BROWN
RED



P2

Plug Body: VHR-2N
Plug Contact: SVH-21T-P1.1

To 24V_Strobe AC/DC 550W Power Supply

WH 01A

WHITE/RED
WHITE/GREY



P1

Plug Body: VHR-2N
Plug Contact: SVH-21T-P1.1

To 24V_System AC/DC 550W Power Supply



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Schematic Name: OI - LASS			
Page Title: WH01 - Input Power			Engineer: Chad Kecy
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV	Designer: Chad Kecy	
System: <System:>	Subsystem: <Subsystem>	Last Updated By: ckecy	
Drawing Number: 100222113	Release: E	Version: 2	Status: Active
Page Modify Date: Wednesday, July 08, 2026	Check In Date: 7/8/2026 10:56:22 AM	Sheet 7 of 31	
		Size: B	

To GigaBlox Ethernet
Controller #1 - Port 2

Crimp PN# 0500798000

WH 02B

To Cam Trig
Adaptor ASSY - P32

Crimp PN# 16020115

WH 02C

To Low Power
Relay Board J4

Crimp PN# 511630241

WH 02A

J02
MIN-K-16-BCR

Endcap J2
Port
Camera



**Monterey Bay Aquarium
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Schematic Name: OI - LASS				
Page Title: WH02 - Port Camera			Engineer: Chad Keycy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Keycy
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckeycy
Drawing Number: 100222113		Release: E	Version: 2	Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Sheet 8 of 31
				Size: B

To GigaBlox Ethernet
Controller #1 - Port 3

P8		0510210800	
8	LCAM_A-	28AWG	BLACK
7	LCAM_A+	28AWG	BROWN
6	LCAM_B-	28AWG	VIOLET
5	LCAM_B+	28AWG	BLUE
4	LCAM_D-	28AWG	ORANGE
3	LCAM_D+	28AWG	RED
2	LCAM_C+	28AWG	GREEN
1	LCAM_C-	28AWG	YELLOW

Crimp PN# 0500798000

WH 03B

GREEN/WHITE	24AWG	RCAM_A+	1
GREEN	24AWG	RCAM_A-	2
ORANGE/WHITE	24AWG	RCAM_B+	3
ORANGE	24AWG	RCAM_B-	4
BLUE/WHITE	24AWG	RCAM_C+	5
BLUE	24AWG	RCAM_C-	6
BROWN/WHITE	24AWG	RCAM_D+	7
BROWN	24AWG	RCAM_D-	8
GREEN	22AWG	RCAM_SYNC_OUT0	9
GREEN	22AWG	RCAM_SYNC_OUT1	10
GREEN	22AWG	RCAM_SYNC_IN0	11
GREEN	22AWG	RCAM_SYNC_IN1	12
BLACK	22AWG	RCAM_USER_GND	13
WHITE/ORANGE	22AWG	RCAM_USER_5V	14
VIOLET	20AWG	RCAM_24V	15
BLACK	20AWG	RCAM_RET	16

J03		MIN-K-16-BCR	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Endcap J3

Starboard
Camera

To Cam Trig
Adaptor ASSY - P33

P9		07-01-07-0003	
1	RCAM_SYNC_OUT0	22AWG	GREEN
2	RCAM_SYNC_IN0	22AWG	GREEN
3	RCAM_USER_GND	22AWG	BLACK
4	RCAM_USER_5V	22AWG	WHITE/ORANGE

Crimp PN# 16020115

WH 03C

To Low Power
Relay Board J5

P7		0436450200	
1	RCAM_24V	20AWG	VIOLET
2	RCAM_RET	20AWG	BLACK

Crimp PN# 511630241

WH 03A

M
B
A
R
I



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Research Institute

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Schematic Name:				
OI - LASS				
Page Title: WH03 - STBD Camera			Engineer: Chad Keycy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Keycy
System: <System:>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
		Sheet 9 of 31		

To GigaBlox Ethernet
Controller #2 - Port 2

P69
0510210800

1	RESON_C-	28AWG	RESON_C-	BLUE	24AWG
2	RESON_C+	28AWG	RESON_C+	BLUE/WHITE	24AWG
3	RESON_D+	28AWG	RESON_D+	BROWN/WHITE	24AWG
4	RESON_D-	28AWG	RESON_D-	BROWN	24AWG
5	RESON_B+	28AWG	RESON_B+	ORANGE/WHITE	24AWG
6	RESON_B-	28AWG	RESON_B-	ORANGE	24AWG
7	RESON_A+	28AWG	RESON_A+	GREEN/WHITE	24AWG
8	RESON_A-	28AWG	RESON_A-	GREEN	24AWG

Crimp PN# 0500798000

WH 04B

BROWN	24AWG	RESON_D-	1
BROWN/WHITE	24AWG	RESON_D+	2
BLUE/WHITE	24AWG	RESON_C+	3
BLUE	24AWG	RESON_C-	4
GREEN	24AWG	RESON_A-	5
GREEN/WHITE	24AWG	RESON_A+	6
ORANGE	24AWG	RESON_B-	7
ORANGE/WHITE	24AWG	RESON_B+	8
BLACK	20AWG	RESON_1PPS_RET	9
RED	20AWG	RESON_TRIG	10
BROWN	20AWG	RESON_TRIG_RET	11
WHITE	20AWG	RESON_1PPS	12
BLACK	20AWG	RESON_RET	13
BLACK	20AWG	RESON_RET	14
VIOLET	20AWG	RESON_24V	15
VIOLET	20AWG	RESON_24V	16

J4
MIN-K-16-BCR

Endcap J4

Reson
Sonar

To LASS System
Board J6

P11
M80-8890405

1	RESON_TRG	22AWG	RED	RED	22AWG
2	RESON_TRG_RTN	22AWG	BROWN	BROWN	22AWG
3	RESON_1PPS	22AWG	WHITE	WHITE	22AWG
4	RESON_1PPS_RET	22AWG	BLACK	BLACK	22AWG

Crimp PN# M80-0110005

WH 04C

RESON_RET	14AWG	BLACK
RESON_24V	14AWG	VIOLET

To Medium Power
Relay Board J3

WH 04A

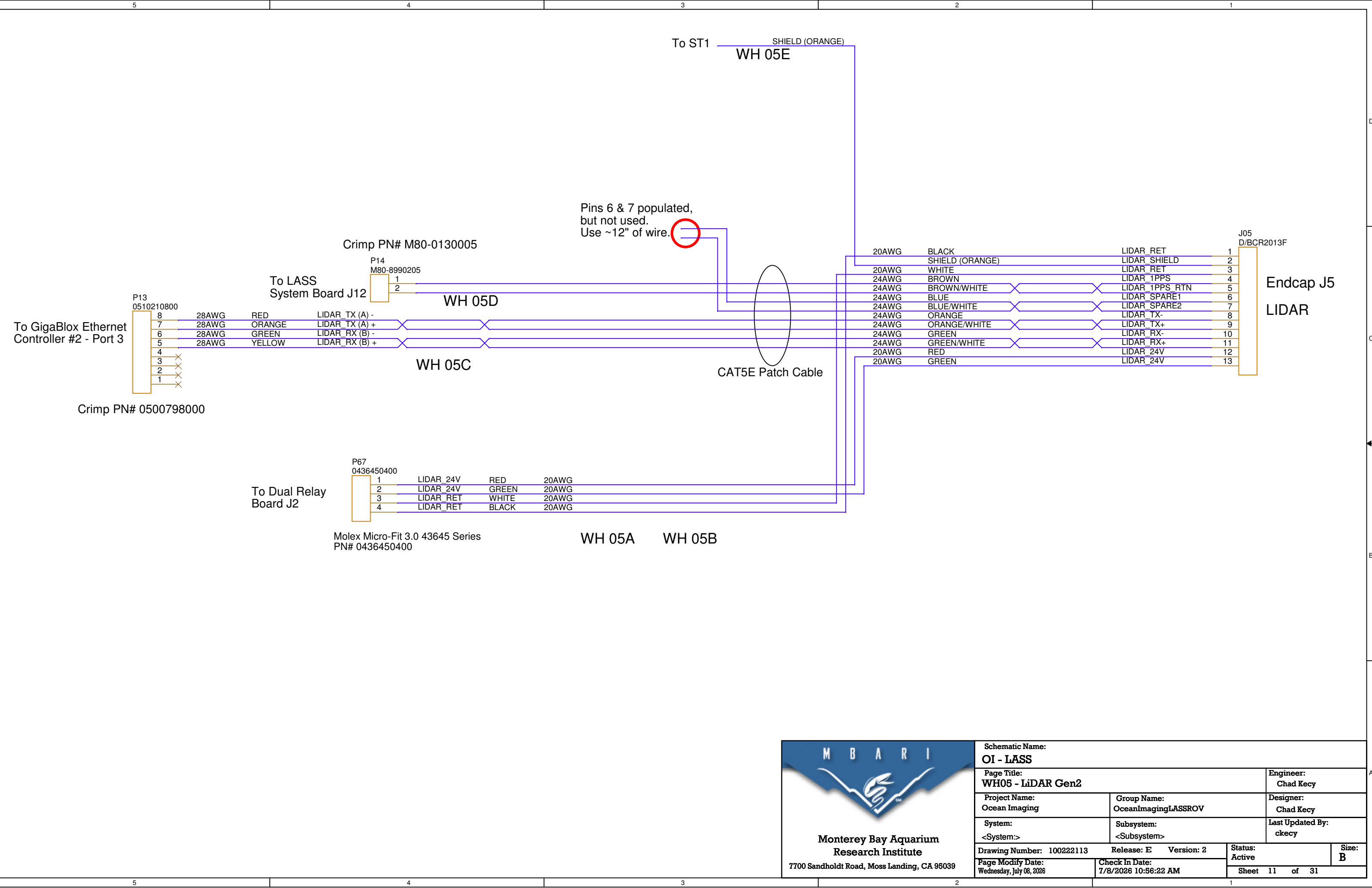
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Research Institute

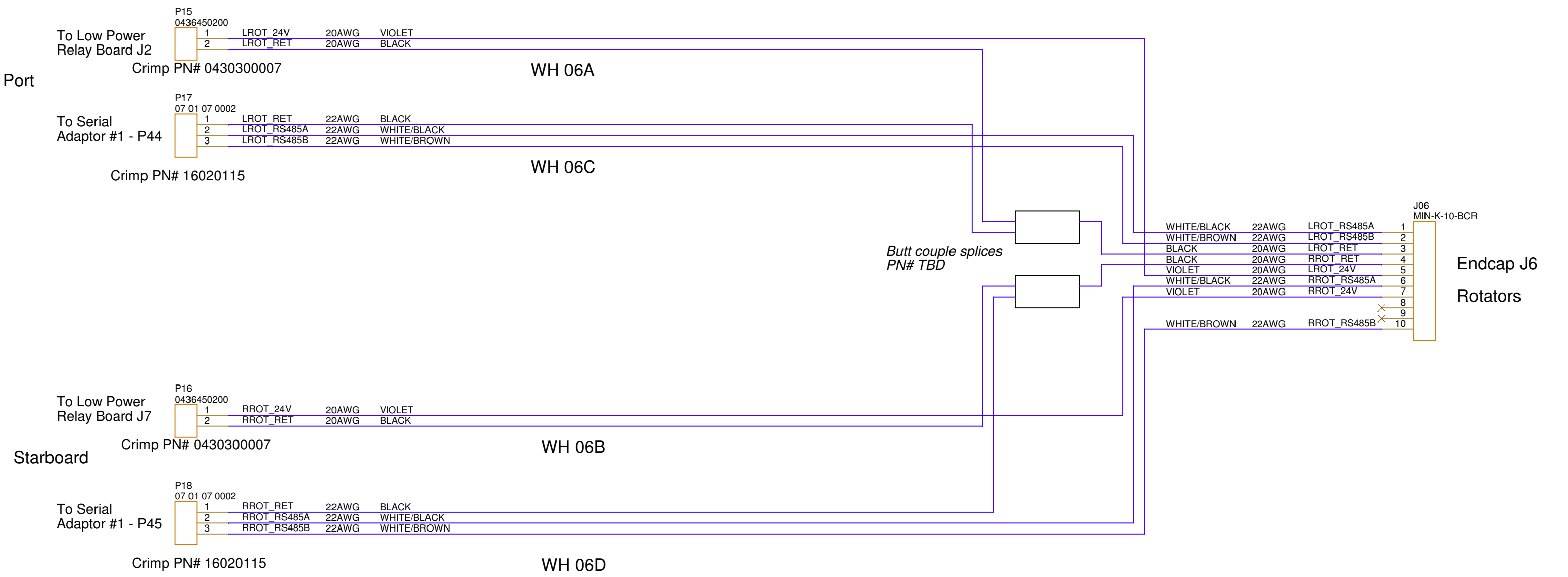
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name:				
OI - LASS				
Page Title: WH04 - Reson MBS			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System:>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
		Sheet 10 of 31		



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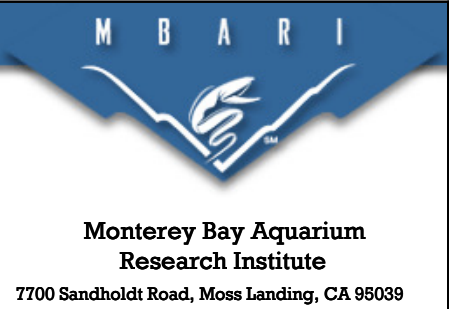
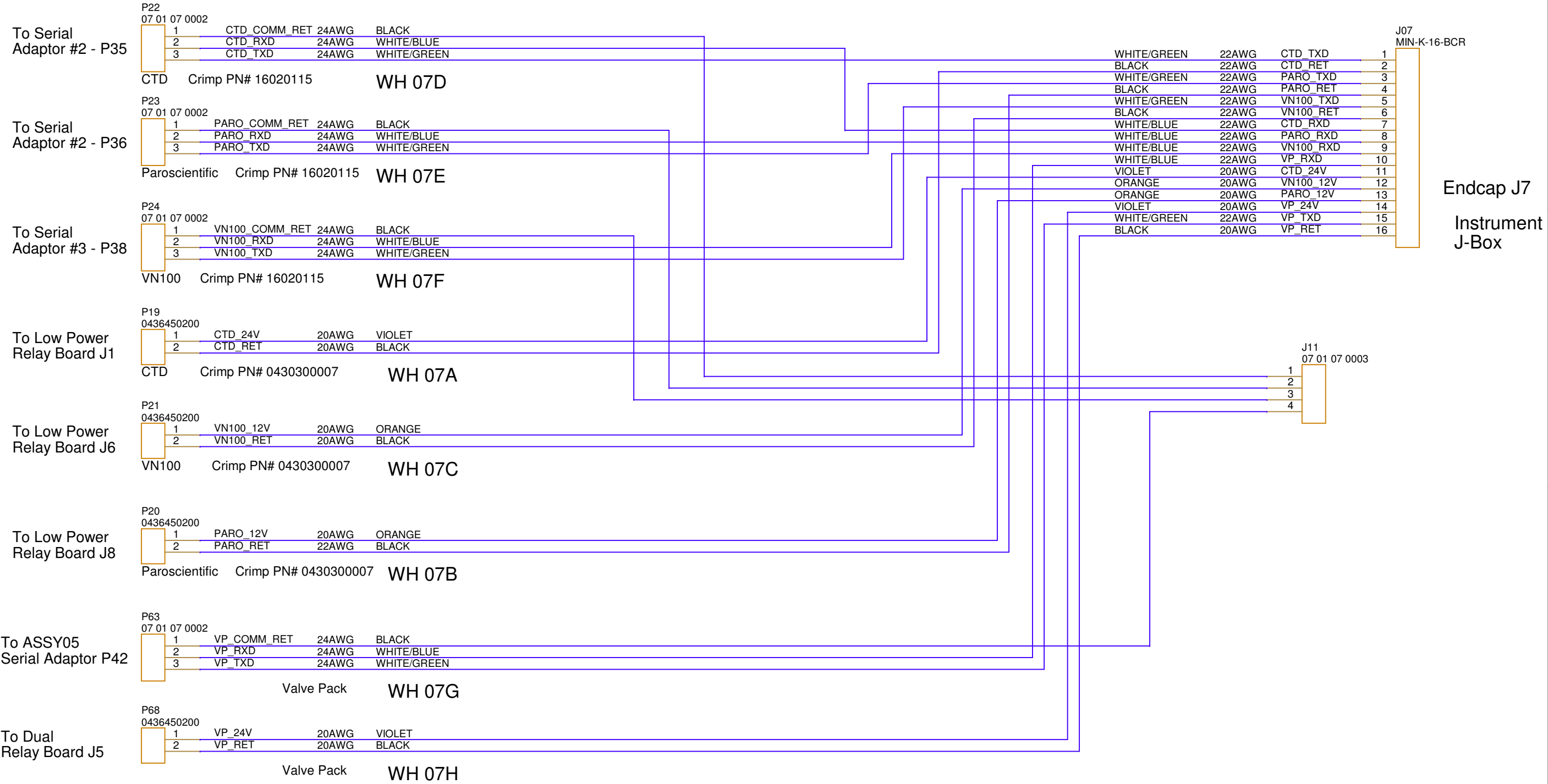
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OI - LASS				
Page Title:			Engineer:	
WH05 - LiDAR Gen2			Chad Kecy	
Project Name:		Group Name:		Designer:
Ocean Imaging		OceanImagingLASSROV		Chad Kecy
System:		Subsystem:		Last Updated By:
<System>		<Subsystem>		ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date:		Check In Date:		Size: B
Wednesday, July 08, 2026		7/8/2026 10:56:22 AM		Sheet 11 of 31





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Schematic Name: OI - LASS			
Page Title: WH06 - Rotators		Engineer: Chad Keycy	
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV		Designer: Chad Keycy
System: <System>	Subsystem: <Subsystem>		Last Updated By: ckeycy
Drawing Number: 100222113		Release: E	Version: 2
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM	
Status: Active		Size: B	
Sheet 12 of 31			



Schematic Name:				
OI - LASS				
Page Title: WH07 - Instr J-Box			Engineer: Chad Keycy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Keycy
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckeycy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
Sheet 13 of 31				

To Medium Power
Relay Board J1

LSTROBE_24V 18AWG WHITE
LSTROBE_RET 18AWG BLACK

WH 08A

To LASS System
Board Jx

P21
M80-8890405

1 LSTROBE_TRIG 22AWG RED
2 LSTROBE_RET 22AWG BLACK
3 RSTROBE_TRIG 22AWG BLUE
4 RSTROBE_RET 22AWG GREEN

Crimp PN# M80-0110005

WH 08C

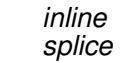
To Medium Power
Relay Board J2

RSTROBE_RET 18AWG GREEN
RSTROBE_24V 18AWG ORANGE

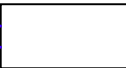
WH 08B



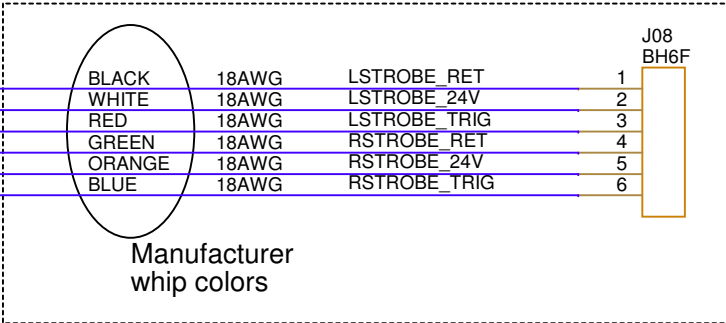
Butt couple splice
PN# TBD



inline
splice



Butt couple splice
PN# TBD



Endcap J8

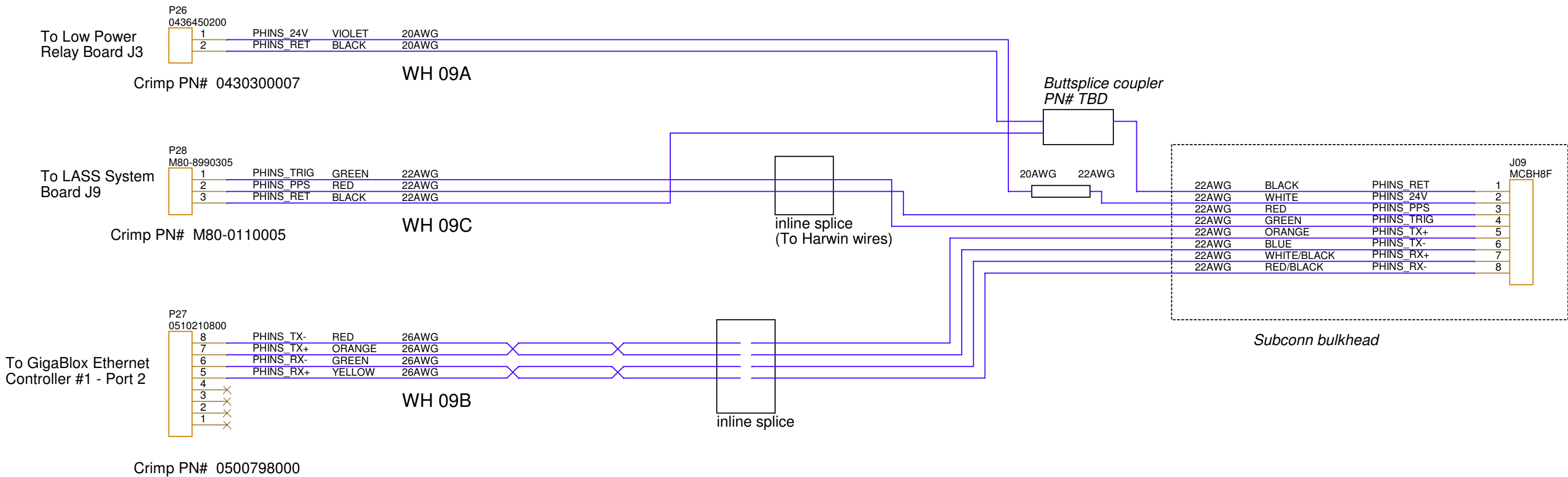
Strokes

Subconn bulkhead



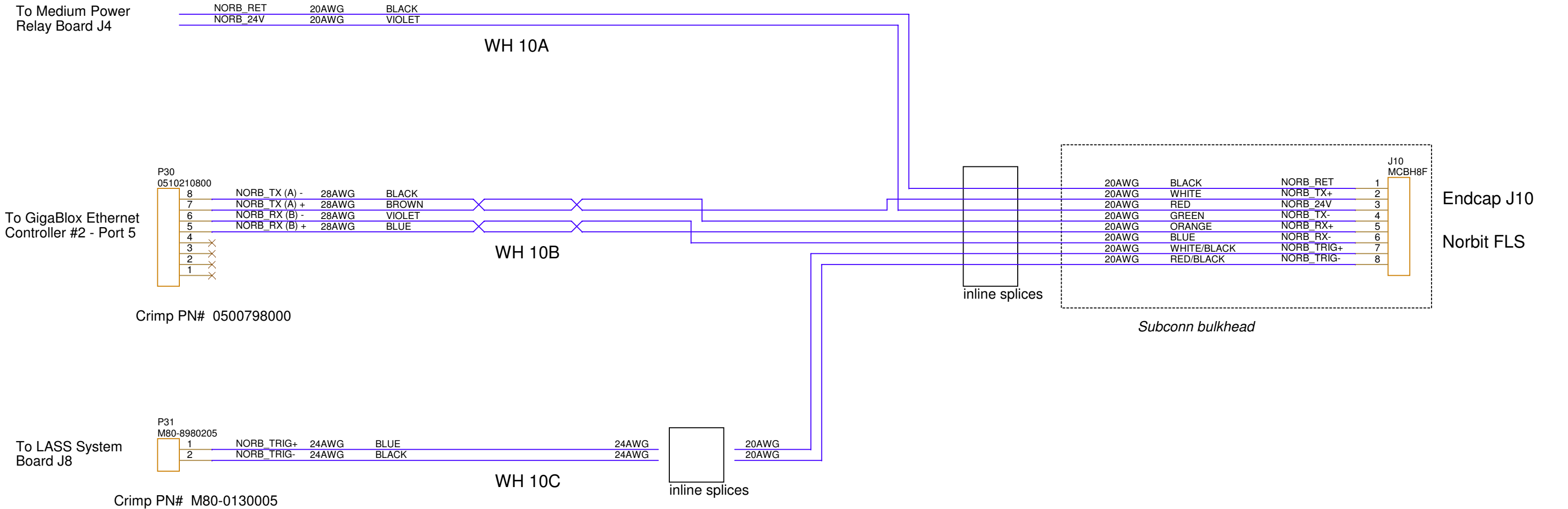
Monterey Bay Aquarium
Research Institute
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: OI - LASS			
Page Title: WH08 - Strokes		Engineer: Chad Kecy	
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System>	Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E	Version: 2
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM	
		Status: Active	Size: B
Sheet 14 of 31			

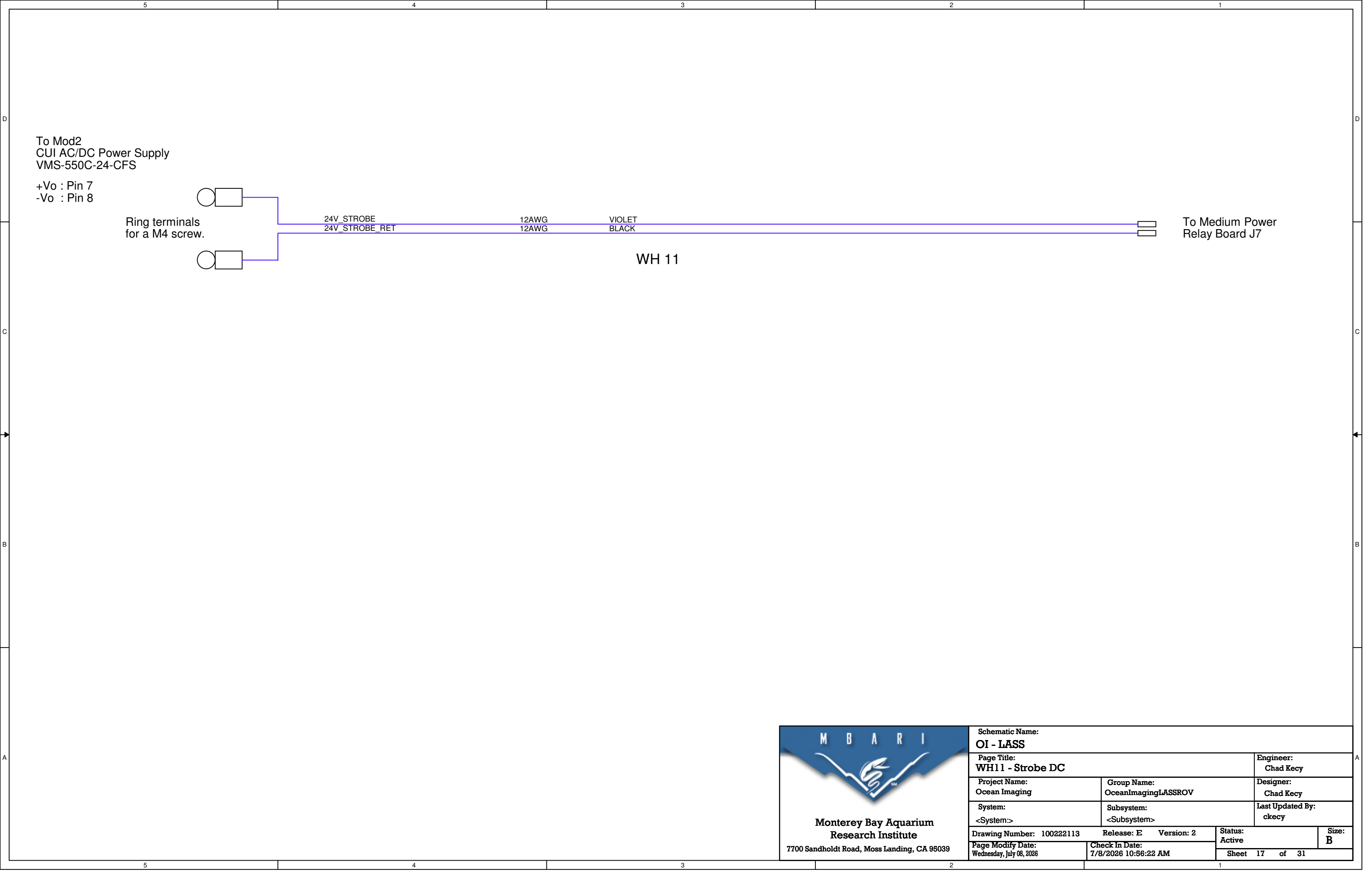


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Schematic Name:				
OI - LASS				
Page Title: WH09 - Phins INS			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E	Version: 2	Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
		Sheet 15 of 31		



Schematic Name: OI - LASS				
Page Title: WH10 - Norbit FLS			Engineer: Chad Key	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Key
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckey
Drawing Number: 100222113		Release: E	Version: 2	Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Sheet 16 of 31
				Size: B



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Schematic Name:				
OI - LASS				
Page Title: WH11 - Strobe DC			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System:>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
Sheet 17 of 31				

To Mod1
CUI AC/DC Power Supply
VMS-550C-24-CFS

+Vo : Pin 7
-Vo : Pin 8

Ring terminals
for a M4 screw.



24V
24V_RET

12AWG
12AWG

VIOLET
BLACK

WH 12



To Medium Power
Relay Board J6



Monterey Bay Aquarium
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Schematic Name:				
OI - LASS				
Page Title: WH12 - System DC			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
Sheet 18 of 31				

To 24V_LIDAR Power Supply

P04 VHR-6N			
11	LIDAR_24V	20AWG	YELLOW
10	LIDAR_24V	20AWG	YELLOW
9	LIDAR_24V	20AWG	YELLOW
8	LIDAR_RET	20AWG	BLACK
7	LIDAR_RET	20AWG	BLACK
6	LIDAR_RET	20AWG	BLACK

Crimp PN# SVH-21T-P1.1

WH 13

		P64
		0436450600
LIDAR_24V	1	
LIDAR_24V	2	
LIDAR_24V	3	
LIDAR_RET	4	
LIDAR_RET	5	
LIDAR_RET	6	

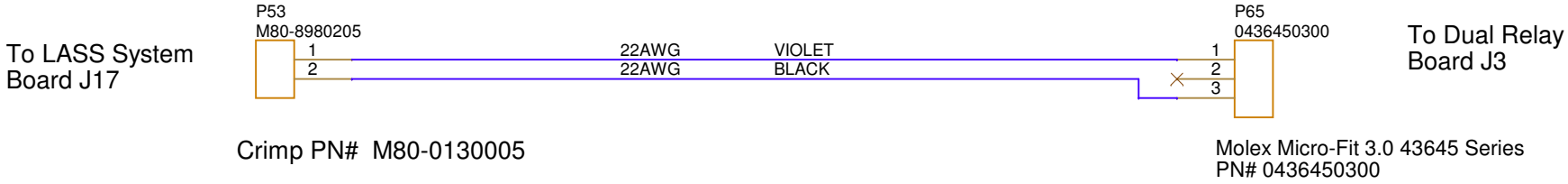
Molex Micro-Fit 3.0 43645 Series
PN# 0436450600

To Dual Relay Board



**Monterey Bay Aquarium
Research Institute**
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: OI - LASS			
Page Title: WH13 - LiDAR Relay Contacts		Engineer: Chad Keyc	
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV	Designer: Chad Keyc	
System: <System:>	Subsystem: <Subsystem>	Last Updated By: ckeyc	
Drawing Number: 100222113		Release: E	Version: 2
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM	Status: Active
		Sheet 19 of 31	
		Size: B	

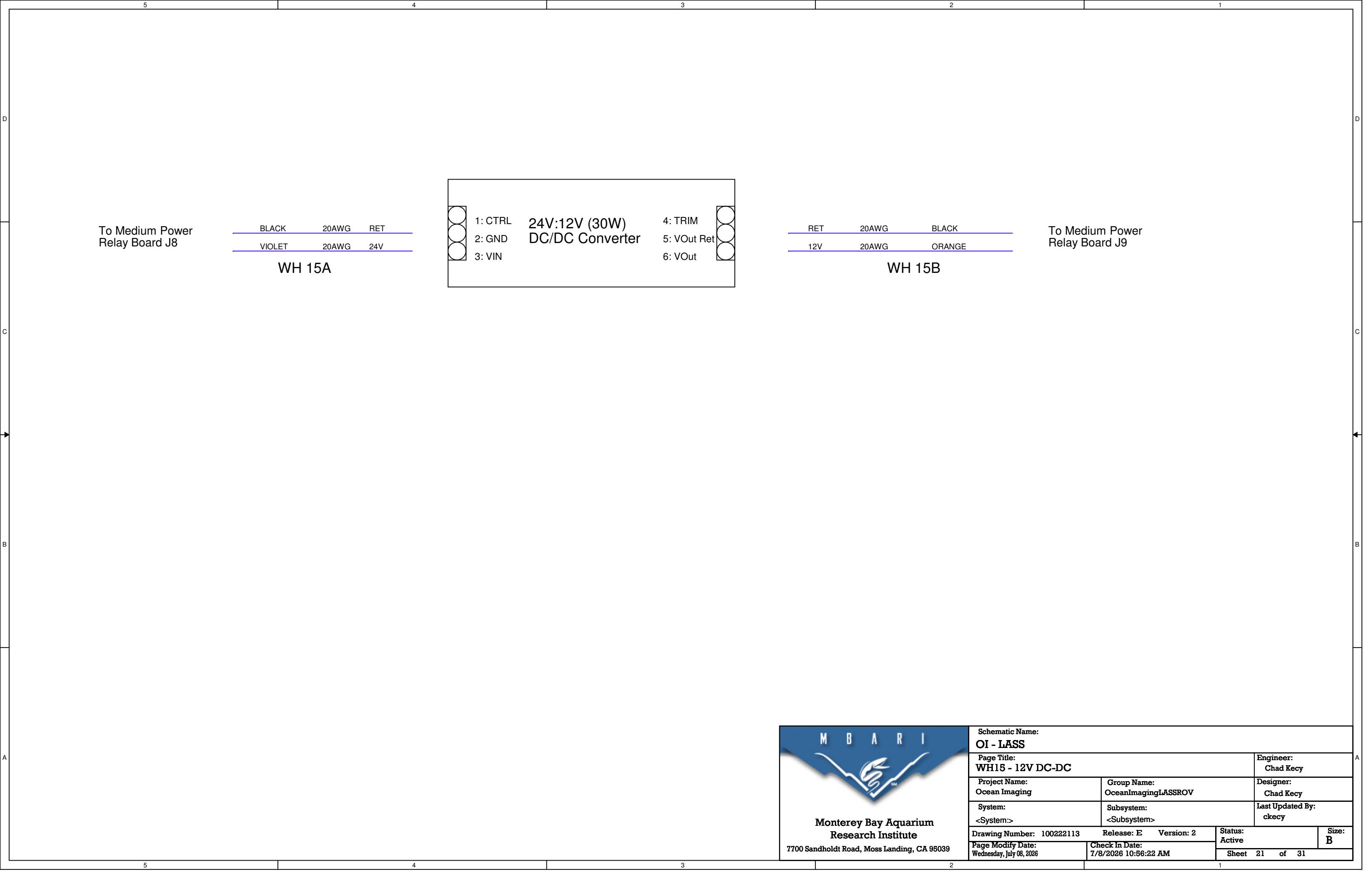


M
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Monterey Bay Aquarium
Research Institute

7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: OI - LASS				
Page Title: WH14 - LiDAR Relay Coil			Engineer: Chad Key	
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV		Designer: Chad Key	
System: <System:>	Subsystem: <Subsystem>		Last Updated By: ckey	
Drawing Number: 100222113		Release: E	Version: 2	Status: Active
Page Modify Date: Wednesday, July 08, 2026	Check In Date: 7/8/2026 10:56:22 AM		Sheet 20 of 31	
				Size: B



M B A R I



Monterey Bay Aquarium
Research Institute

7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name:
OI - LASS

Page Title:
WH15 - 12V DC-DC

Engineer:
Chad Kecy

Project Name:
Ocean Imaging

Group Name:
OceanImagingLASSROV

Designer:
Chad Kecy

System:
<System:>

Subsystem:
<Subsystem>

Last Updated By:
ckecy

Drawing Number: 100222113

Release: E

Version: 2

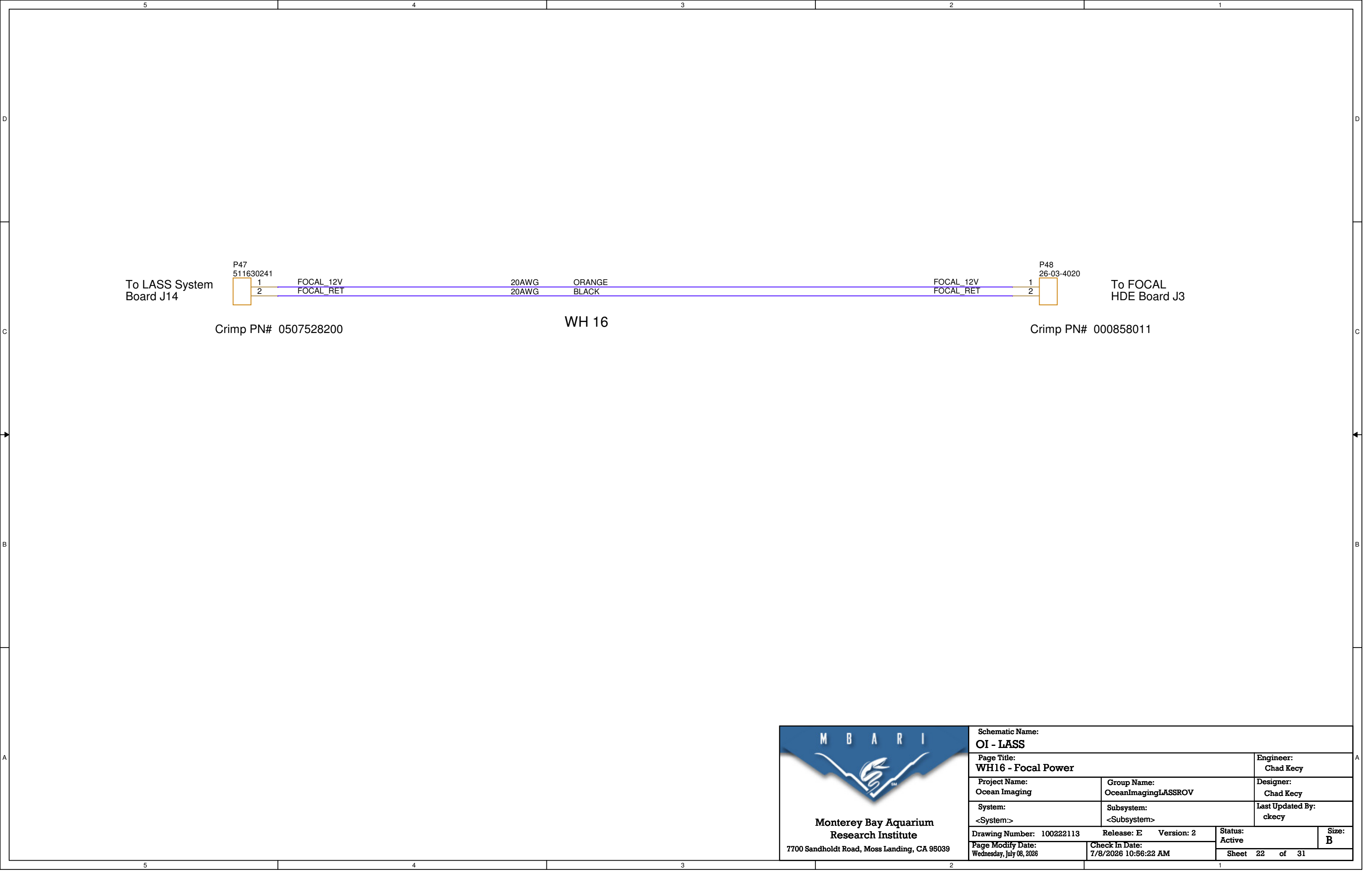
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Wednesday, July 08, 2026

Check In Date:
7/8/2026 10:56:22 AM

Status:
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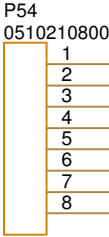
Size:
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 Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039	Schematic Name: OI - LASS				
	Page Title: WH16 - Focal Power			Engineer: Chad Kecy	
	Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
	System: <System:>		Subsystem: <Subsystem>		Last Updated By: ckecy
	Drawing Number: 100222113		Release: E Version: 2		Status: Active
	Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		
				Size: B	
Sheet 22 of 31					

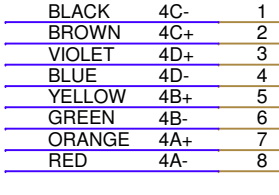
To GOB Computer Board J5.



Not GigaBlox standard pinout on P54.

Crimp PN# 0500798000

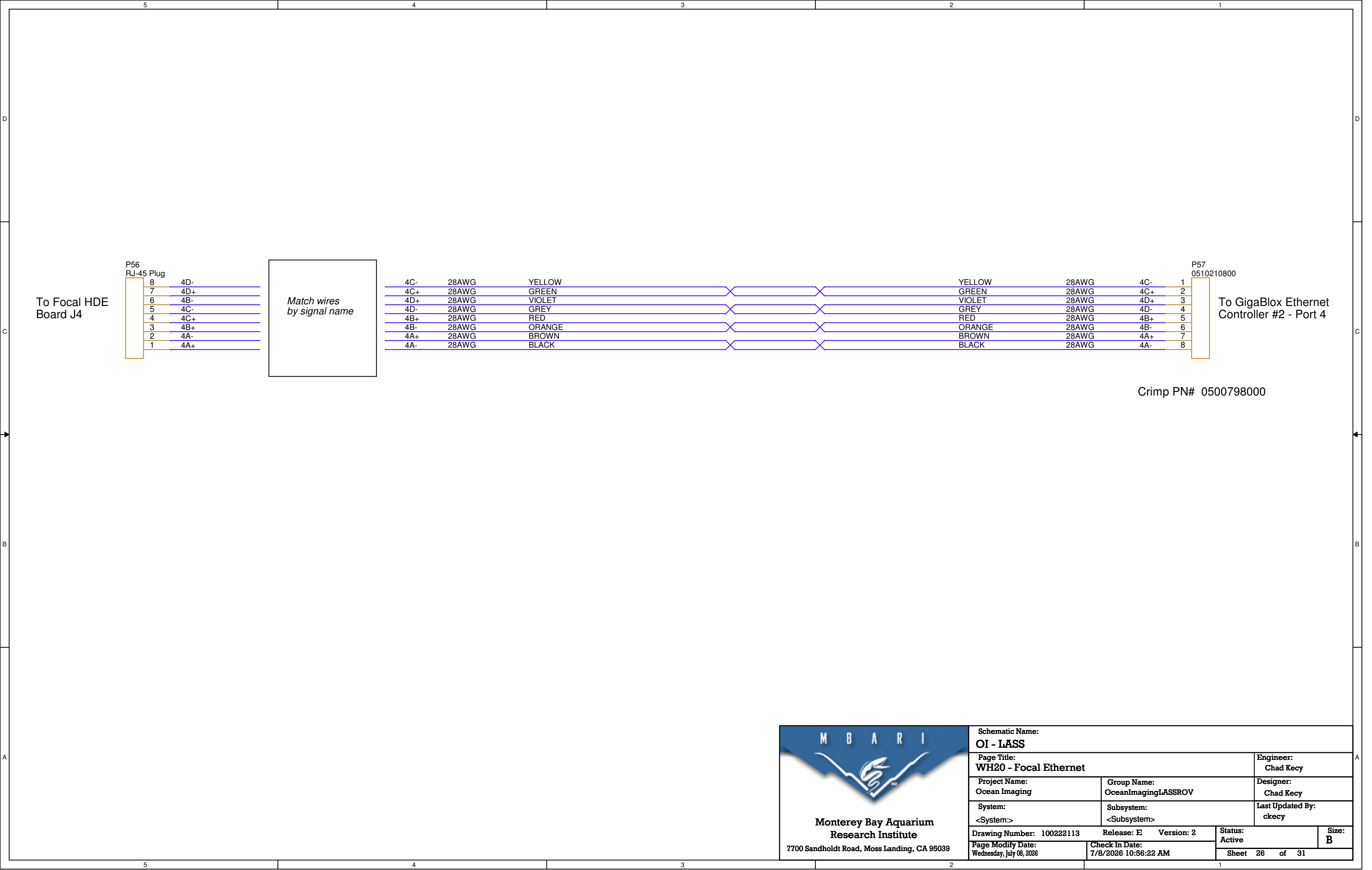
Match wires by signal name



To GigaBlox Ethernet Controller #1 - Port 5

Crimp PN# 0500798000

 Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039	Schematic Name: OI - LASS				
	Page Title: WH19 - GOB Comp Ethernet			Engineer: Chad Kecy	
	Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
	System: <System:>		Subsystem: <Subsystem>		Last Updated By: ckecy
	Drawing Number: 100222113		Release: E Version: 2		Status: Active
	Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
					Sheet 25 of 31



M B A R I



Monterey Bay Aquarium
Research Institute

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Schematic Name:
OI - LASS

Page Title:
WH20 - Focal Ethernet

Engineer:
Chad Kecy

Project Name:
Ocean Imaging

Group Name:
OceanImagingLASSROV

Designer:
Chad Kecy

System:
<System>

Subsystem:
<Subsystem>

Last Updated By:
ckecy

Drawing Number: 100222113

Release: E

Version: 2

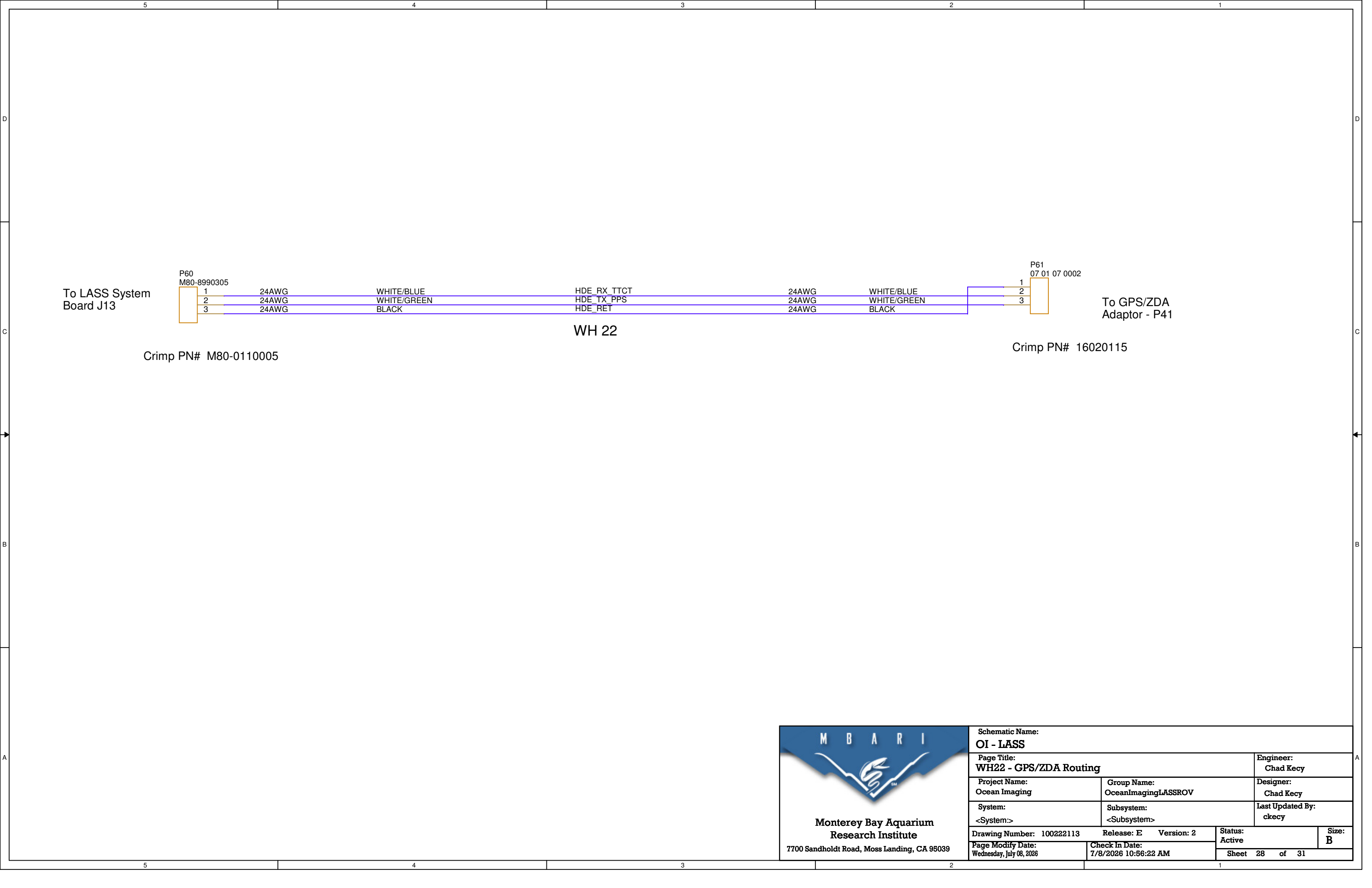
Page Modify Date:
Wednesday, July 08, 2026

Check In Date:
7/8/2026 10:56:22 AM

Status:
Active

Size:
B

Sheet 26 of 31

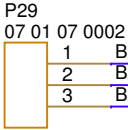




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Schematic Name: OI - LASS			
Page Title: WH22 - GPS/ZDA Routing			Engineer: Chad Keyc
Project Name: Ocean Imaging	Group Name: OceanImagingLASSROV	Designer: Chad Keyc	
System: <System:>	Subsystem: <Subsystem>	Last Updated By: ckeyc	
Drawing Number: 100222113		Release: E	Version: 2
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM	
		Status: Active	Size: B
Sheet 28 of 31			

To Serial
Adaptor #3 - P39



1	BACKDOOR_RET	24AWG
2	BACKDOOR_RS232_RX	24AWG
3	BACKDOOR_RS232_TX	24AWG

BACKDOOR_RS232_RX	1
BACKDOOR_RET	2
BACKDOOR_RS232_TX	3



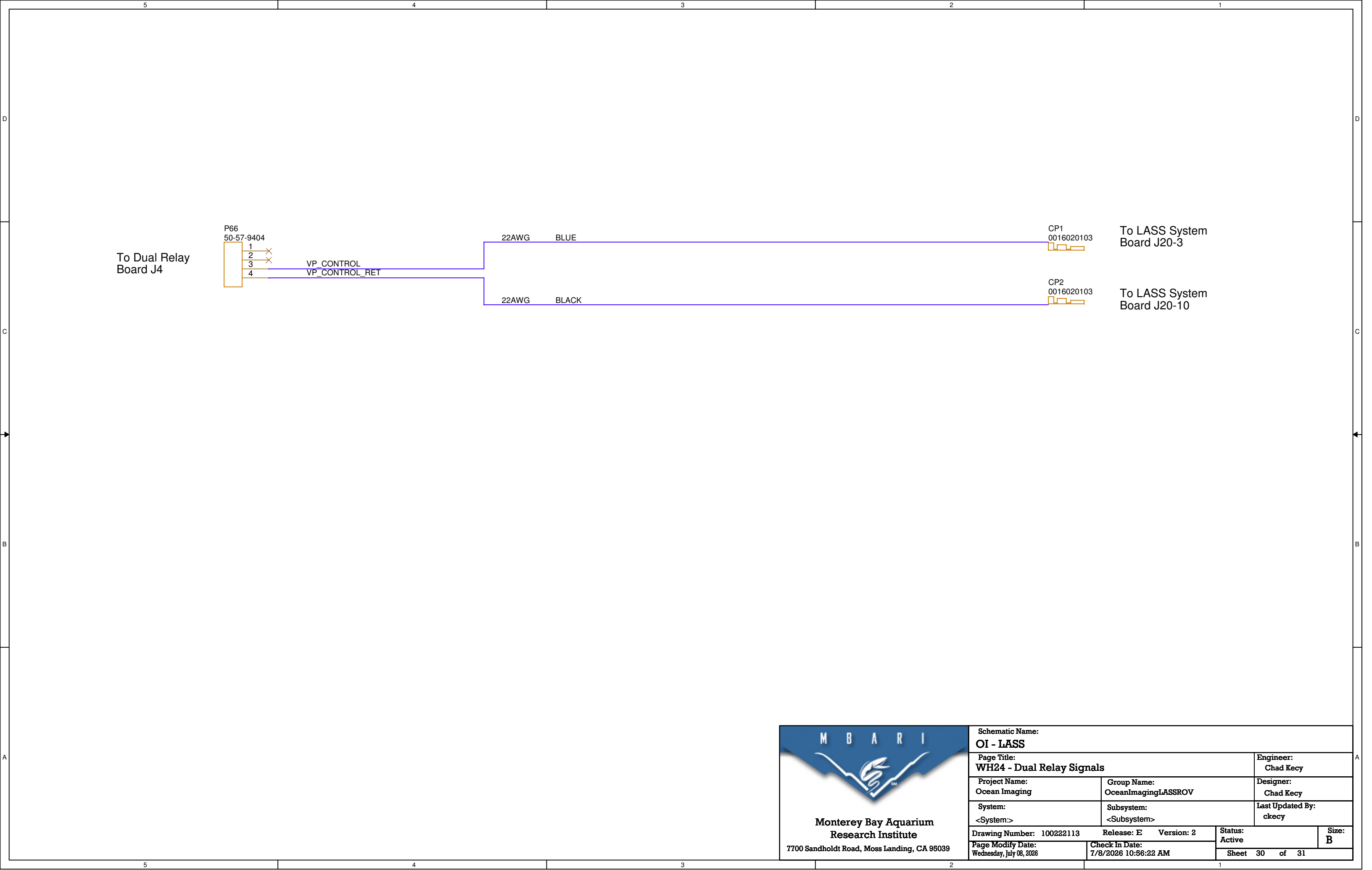
To GOB Computer
Board J7 (Spare Serial)

M
B
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Schematic Name:				
OI - LASS				
Page Title:			Engineer:	
WH23 - Serial Back Door			Chad Kecy	
Project Name:	Group Name:	Designer:		
Ocean Imaging	OceanImagingLASSROV	Chad Kecy		
System:	Subsystem:	Last Updated By:		
<System:>	<Subsystem>	ckecy		
Drawing Number: 100222113		Release: E	Version: 2	Status:
Page Modify Date:		Check In Date:	Active	Size:
Wednesday, July 08, 2026		7/8/2026 10:56:22 AM	B	
		Sheet 29 of 31		





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Schematic Name: OI - LASS				
Page Title: WH24 - Dual Relay Signals			Engineer: Chad Kecy	
Project Name: Ocean Imaging		Group Name: OceanImagingLASSROV		Designer: Chad Kecy
System: <System:>		Subsystem: <Subsystem>		Last Updated By: ckecy
Drawing Number: 100222113		Release: E Version: 2		Status: Active
Page Modify Date: Wednesday, July 08, 2026		Check In Date: 7/8/2026 10:56:22 AM		Size: B
Sheet 30 of 31				