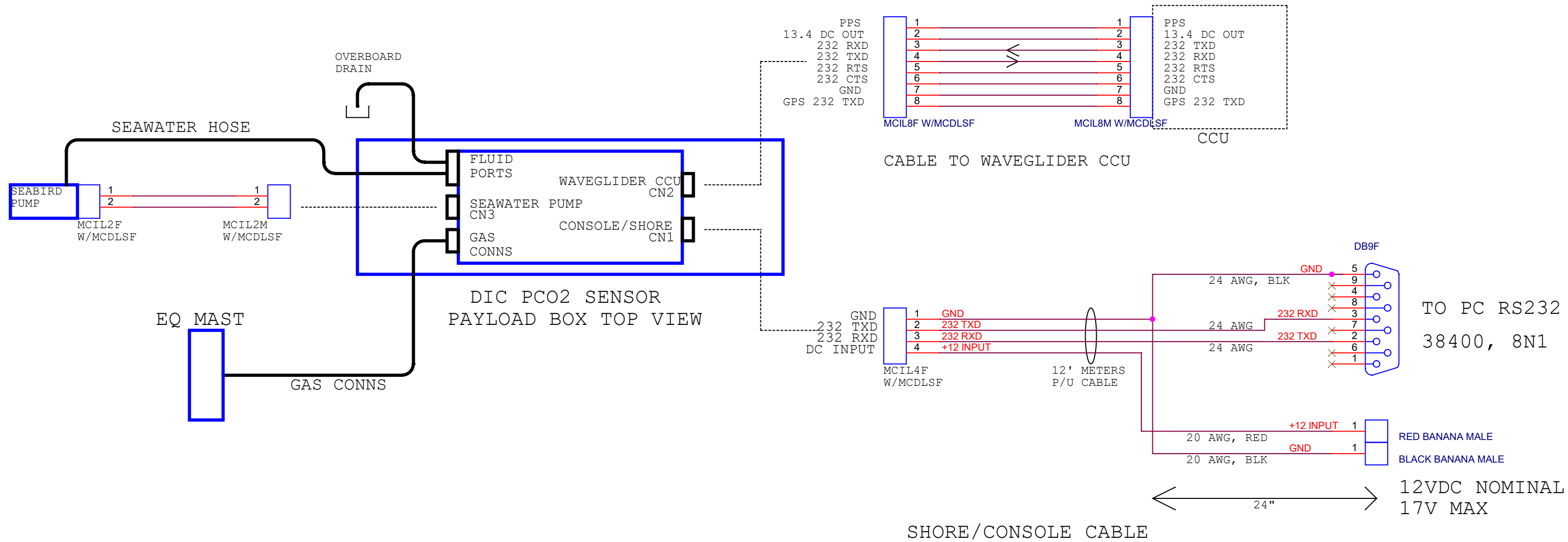
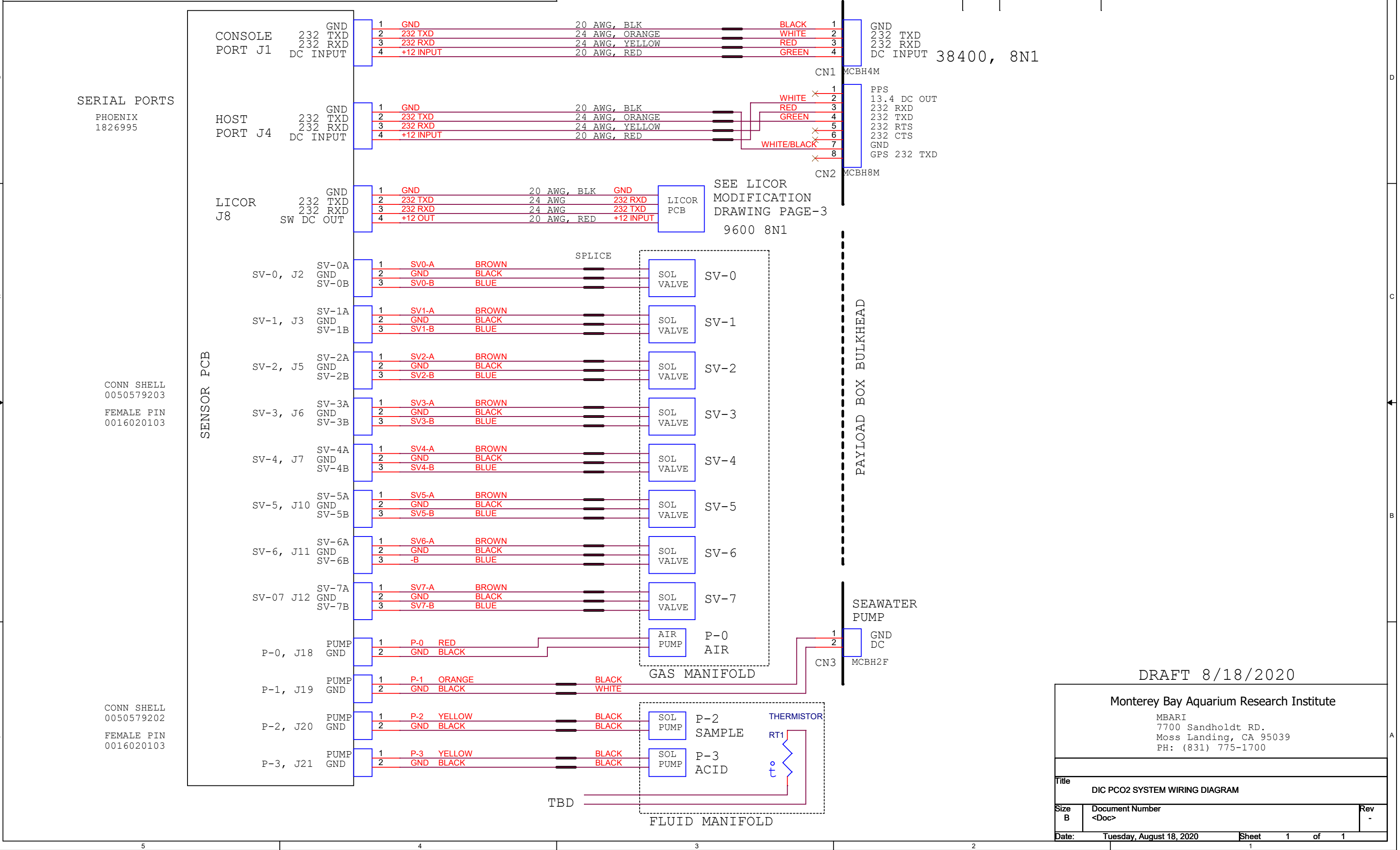




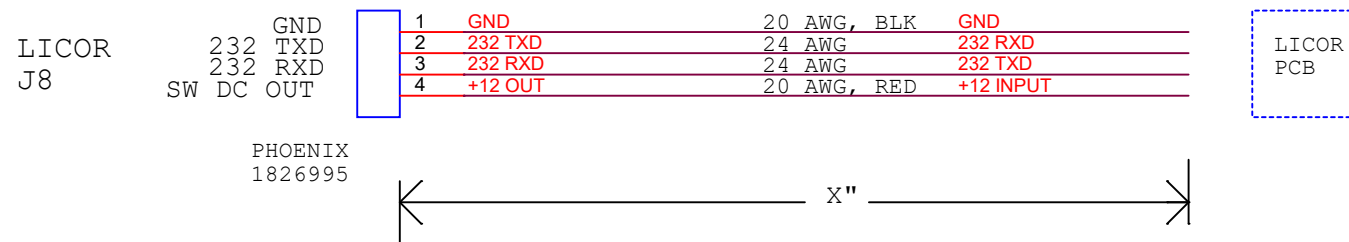
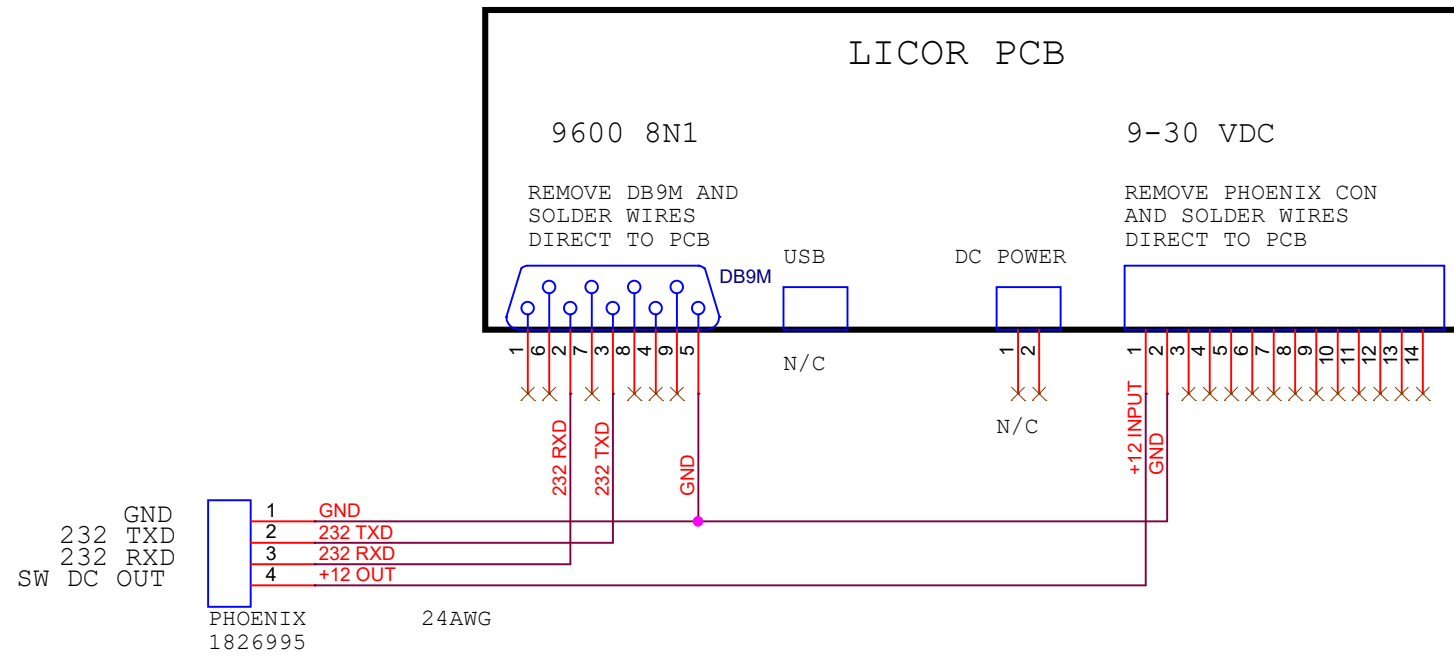
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2		1
REV	DATE	DESCRIPTION
		INITIAL RELEASE



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REV	DATE	DESCRIPTION	
		INITIAL RELEASE	



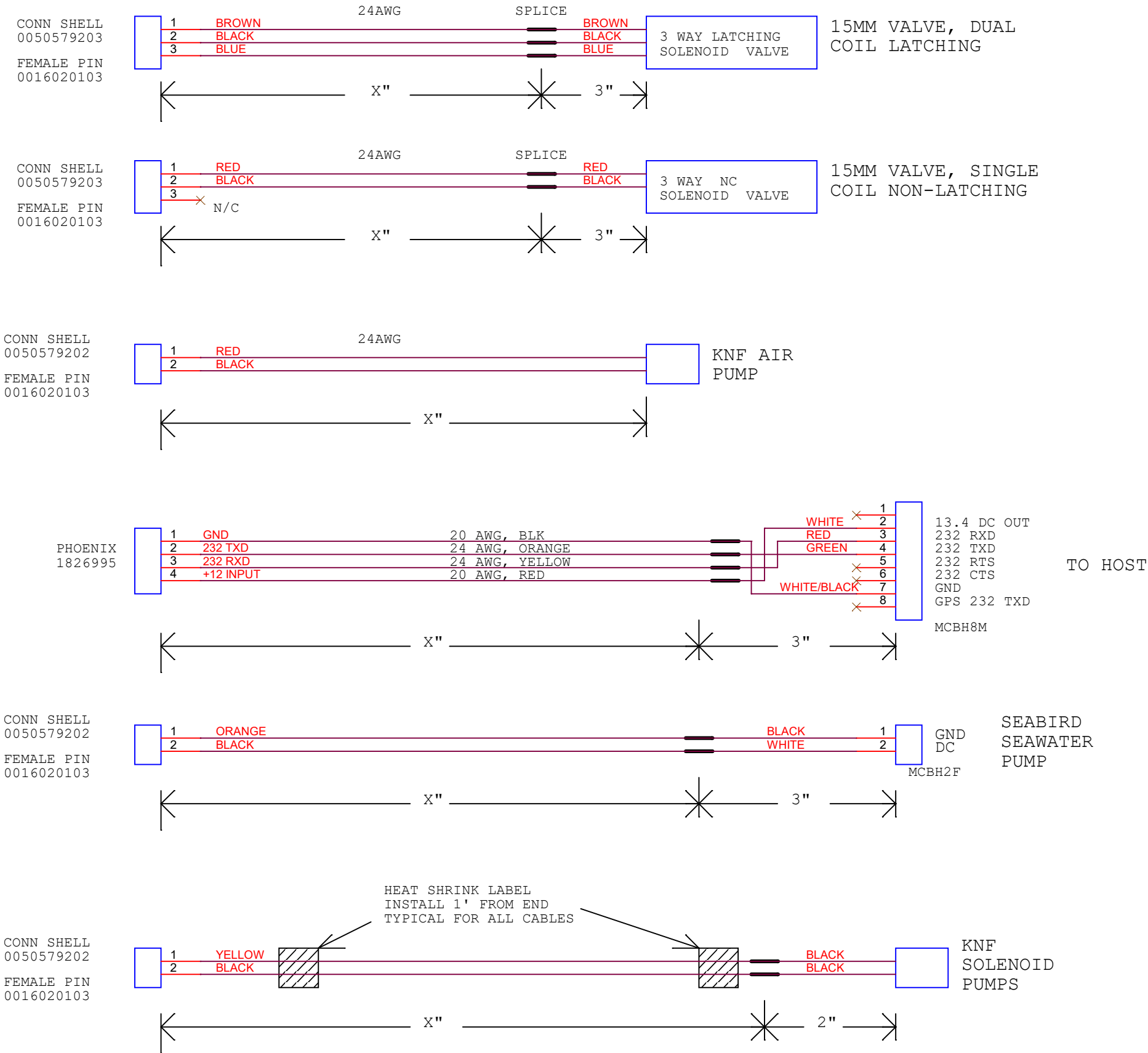
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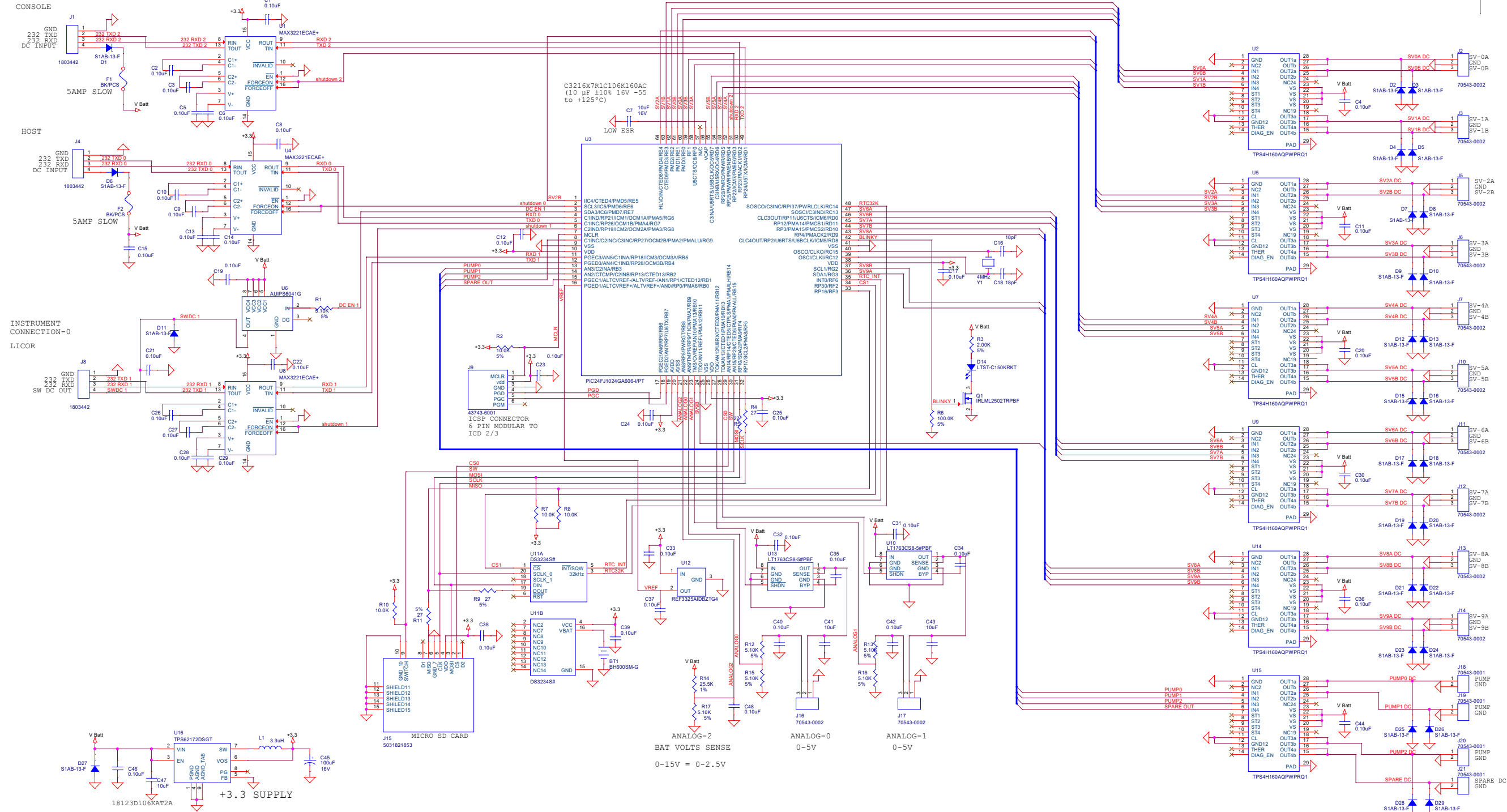
Title			
Licor modification			
Size B	Document Number <Doc>		Rev -
Date:	Tuesday, August 18, 2020	Sheet	1 of 1

2		1
REV	DATE	DESCRIPTION
		INITIAL RELEASE



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MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
Title VALVE AND PUMP WIRING		
Size B	Document Number <Doc>	Rev -
Date:	Tuesday, August 18, 2020	Sheet 1 of 1

NOTES:	
REV	DESCRIPTION
A	change C7, Update processor to 606

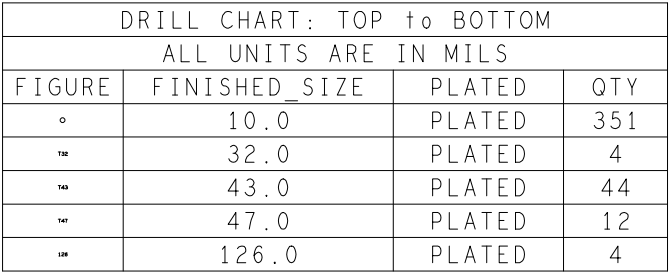


DRAFT 12/17/2019

Monterey Bay Aquarium Research Institute		
7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700		
Title CARBON WAVEGLIDER PIC CONTROLLER		
Size D	Document Number <Doc>	Rev A
Date Tuesday, August 04, 2020	Sheet 1	of 1

606 version

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



3. BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
4. THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
5. MATERIAL:
 - a. FR4 PER IPC 4101B/24, /26, OR /28.
 - b. SIGNAL LAYERS TO BE 1 OZ. COPPER.
 - c. PLANE LAYERS TO BE 1 OZ. COPPER.
 - d. OVERALL THICKNESS TO BE 0.062" +/- 0.007"
6. LEGEND:
 - a. WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.
7. SOLDERMASK:
 - a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR BLACK, BOTH SIDES.
8. PLATING FINISH:
 - a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
 - ~~b. IMMERSION SILVER TAG.~~
9. PROCESS ALLOWANCES:
 - a. MAXIMUM BOW AND TWIST SHALL NOT EXCEED .007" PER INCH
 - b. HOLE DIMENSIONS APPLY AFTER PLATING.
 - c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION
 - d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".
 - e. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
 - f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
 - g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	CARBON WAVEGLIDER PIC CONTROLLER			
DIMENSIONS ARE IN INCHES			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE			
TOLERANCES ON:			7700 SANDHOLDT ROAD			
2 PL DECIMALS +/- 0.02"			MOSS LANDING, CA			
3 PL DECIMALS +/- 0.005"						
ANGLES +/- 1 Degree			SIZE	REVISION	DWG NO	
FRACTIONS +	DESIGNED BY: engineer		B	INITIAL REL	10021161	
	LAYOUT BY: JOSE ROSAL		SCALE	1 - 1		SHEET 1 - 1

CONSOLE PORT
HOST PORT

GND
232 TXD
232 RXD
DC INPUT

1
2
3
4
PHOENIX
1826995

GND
232 TXD
232 RXD
+12 INPUT

24 AWG, BLK
24 AWG
24 AWG

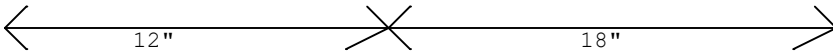
GND
232 RXD
232 TXD

DB9F
5
9
4
8
3
7
2
6
1

20 AWG, RED
20 AWG, BLK

+12 INPUT
GND

RED BANANA MALE
BLACK BANANA MALE



INSTRUMENT
CONNECTION
LICOR

GND
232 TXD
232 RXD
SW DC OUT

1
2
3
4
PHOENIX
1826995

GND
232 TXD
232 RXD
+12 OUT

24 AWG, BLK
24 AWG
24 AWG

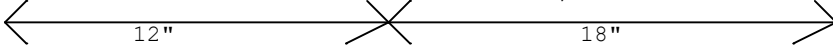
GND
232 RXD
232 TXD

DB9M
5
9
4
8
3
7
2
6
1

20 AWG, RED
20 AWG, BLK

+12 OUT
GND

RED BANANA FEMALE
BLACK BANANA FEMALE



SV DC OUTS

SV-xA
GND
SV-xB
CONN SHELL
0050579203
FEMALE PIN
0016020103

1
2
3

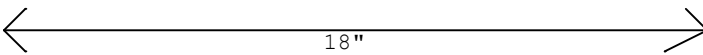
24 AWG, BROWN
24 AWG, BLK
24 AWG, BLUE

PUMP DC OUTS

PUMP
GND
CONN SHELL
0050579202
FEMALE PIN
0016020103

1
2

24 AWG, RED
24 AWG, BLACK



DRAFT 8/13/2020

Monterey Bay Aquarium Research Institute

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Moss Landing, CA 95039
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Title		
DIC SENSOR PCB TEST CABLES		
Size B	Document Number <Doc>	Rev A
Date:	Thursday, August 13, 2020	Sheet 1 of 1