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REVISIONS

INITIAL RELEASE

X/XX/01

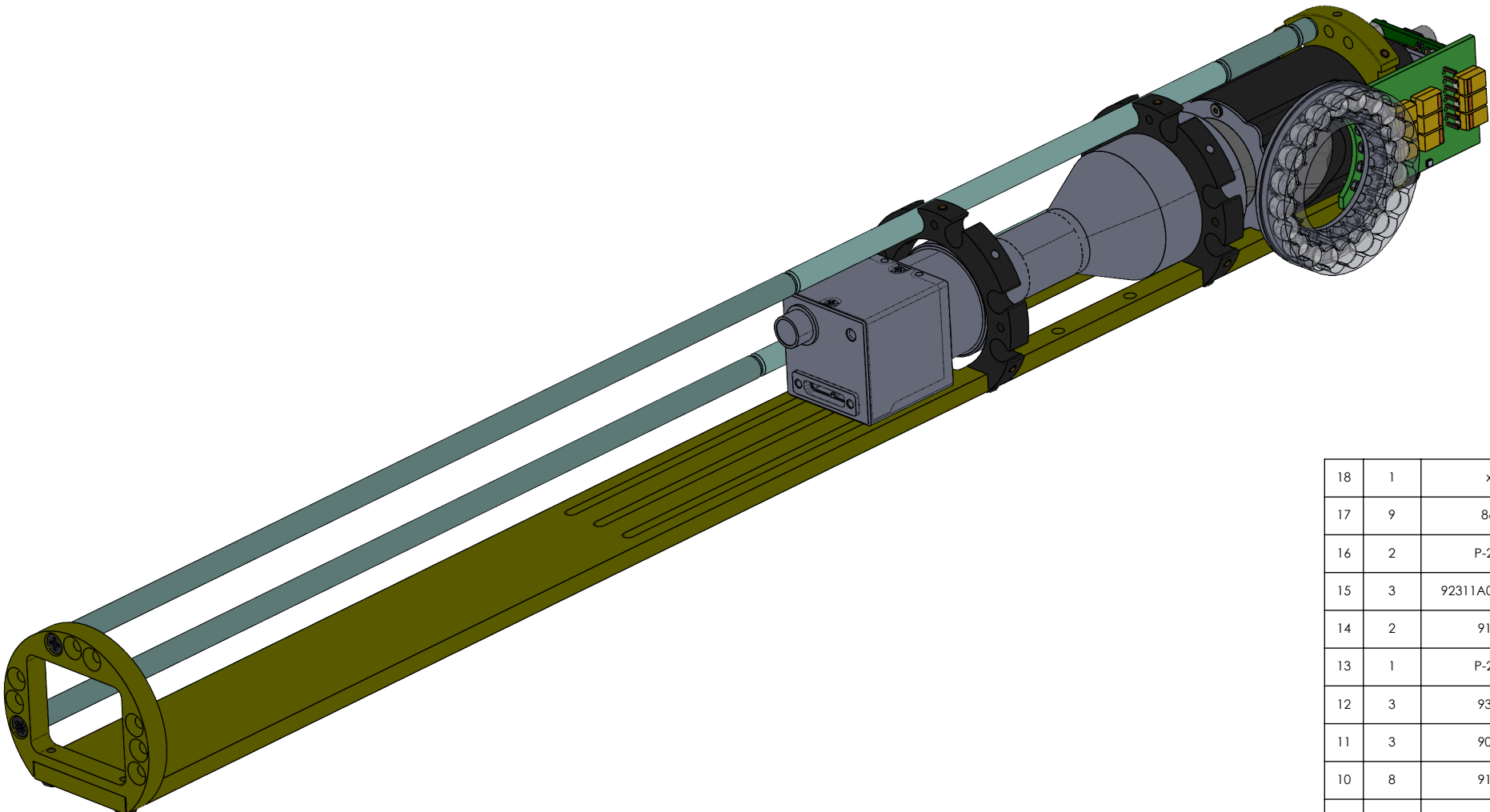
J.E.

D

C

B

A



7. PROJECT LIBRARYX:\902004_Planktivore\Housing_2022\OpticsPod\0p5x-assembly-Prism_V3

NOTES: (CONT. FROM TITLE BLOCK)

18	1	xxxxxxx	Strobe Assembly _V2				
17	9	8687A111	4-48 Brass Slotted Ball-Nose Spring Plunger		0.00029	McMaster-Carr Supply Company	
16	2	P-221756-22	Electronics Rack Lens Support		0.008	MBARI	Hp PA12 Nylon
15	3	92311A076, 91780A021	2-56 Standoff Assembly		0.000	McMaster-Carr	
14	2	91249A108	4-40x3/8_Black-Oxide 18-8 Stainless Steel Pan Head Phillips Screws		0.00135	McMaster-Carr Supply Company	18-8 Stainless Steel
13	1	P-221755-22	Optics Rack Electronics Mount Plate V3		0.016	MBARI	Hp PA12 Nylon
12	3	93310A802	M3-0.5x8mm_Stainless Steel Thread-Locking Buffon Head Hex Drive Screws		0.0013	McMaster-Carr Supply Company	18-8 Stainless Steel
11	3	90291A106	4-40 x 1/4 18-8 Stainless Steel Nylon-Tip Set Screw		0.00052	McMaster-Carr Supply Company	18-8 Stainless Steel
10	8	91249A105	4-40x1/4_Black-Oxide 18-8 Stainless Steel Pan Head Phillips Screws		0.00108	McMaster-Carr Supply Company	18-8 Stainless Steel
9	2	ER10, ER6, ER1, ER025	ER Assembly		0.214	Thor Labs	
8	2	91249A115	4-40 x 5/8_Black-Oxide 18-8 Stainless Steel Pan Head Phillips Screws		0.0019	McMaster-Carr Supply Company	18-8 Stainless Steel
7	3	96640A056	4-40 x 3/8_Black-Oxide 18-8 S.S. Phill Flt Hd		0.0009	McMaster-Carr Supply Company	18-8 Stainless Steel
6	1	FL2020-R0	Camera		0.081		
5	1	TC5M-05-65	TC5M-05-65		0.200		
4	1	P-221xxx-22	Mounted Prism Assembly		0.079	MBARI	
3	1	P-221740-22	Rack Support Mirror Holder	A	0.032	MBARI	6061-T6 Alloy
2	1	P-221738-22	Optics Pod Rack (Base) V3		0.301	MBARI	6061-T6 Alloy
1	1	P-221739-22	Rack Rear End Cap		0.027	MBARI	6061-T6 Alloy
ITEM NO.	QTY.	Part_Number	DESCRIPTION	Revision	Weight	Vendor	MATERIAL

Shop / Q.C.

Inspector

Shop Foreman

Engineer

NEXT ASSY Description

NEXT ASSY Number

Application

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

1 PLACE DIM ±1/16

2 PLACE DIM ±.02

3 PLACE DIM ±.005

ANGLES ±1°

1. DIMENSIONS ARE IN INCHES

2. DIMENSION LIMITS HELD AFTER PLATING.

3. REMOVE BURRS AND SHARP EDGES .015 MAX.

4. MACHINED FILLET RADII .0150-.030.

5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005

6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.

DO NOT SCALE DRAWING

APPROVALS

DATE

DRAWN J. ERICKSON

ENGINEER J. ERICKSON

CHECKED

PROJECT NO. 902004

PROJECT Planktivore

WEIGHT 1.237

Monterey Bay Aquarium Research Institute

MBARI

7700 Sandholdt RD.

Moss Landing, CA 95039

PH: (831) 775-1700



PLANKTIVOR - LRAUV

Op5x-Assembly-Prism_V3

SIZE B

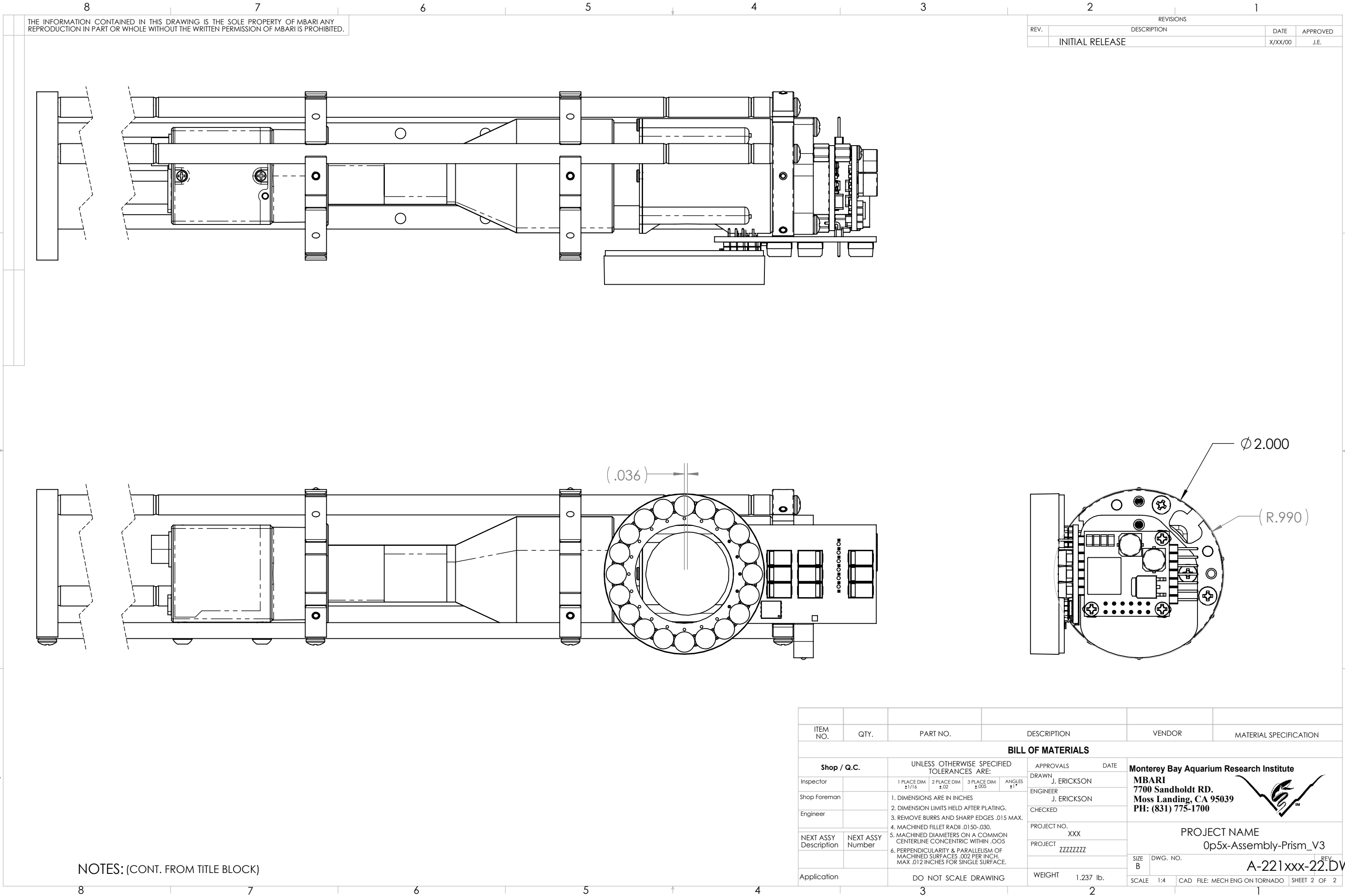
DWG. NO. A-221xxx-22.DWG

REV.

SCALE 1:4

CAD FILE: MECH ENG ON TORNADO

SHEET 1 OF 2



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	DRAWN J. ERICKSON	
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER J. ERICKSON	
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED	
NEXT ASSY Description	NEXT ASSY Number	2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO. XXX	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT ZZZZZZZZ	
		4. MACHINED FILLET RADII .0150-.030.		WEIGHT 1.237 lb.	
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SIZE B	DWG. NO.
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		SCALE 1:4	CAD FILE: MECH ENG ON TORNADO
Application		DO NOT SCALE DRAWING			

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



PROJECT NAME
Op5x-Assembly-Prism_V3

A-221xxx-22.DWG

SIZE	DWG. NO.	REV.
B		
SCALE	1:4	CAD FILE: MECH ENG ON TORNADO
SHEET	2	OF 2