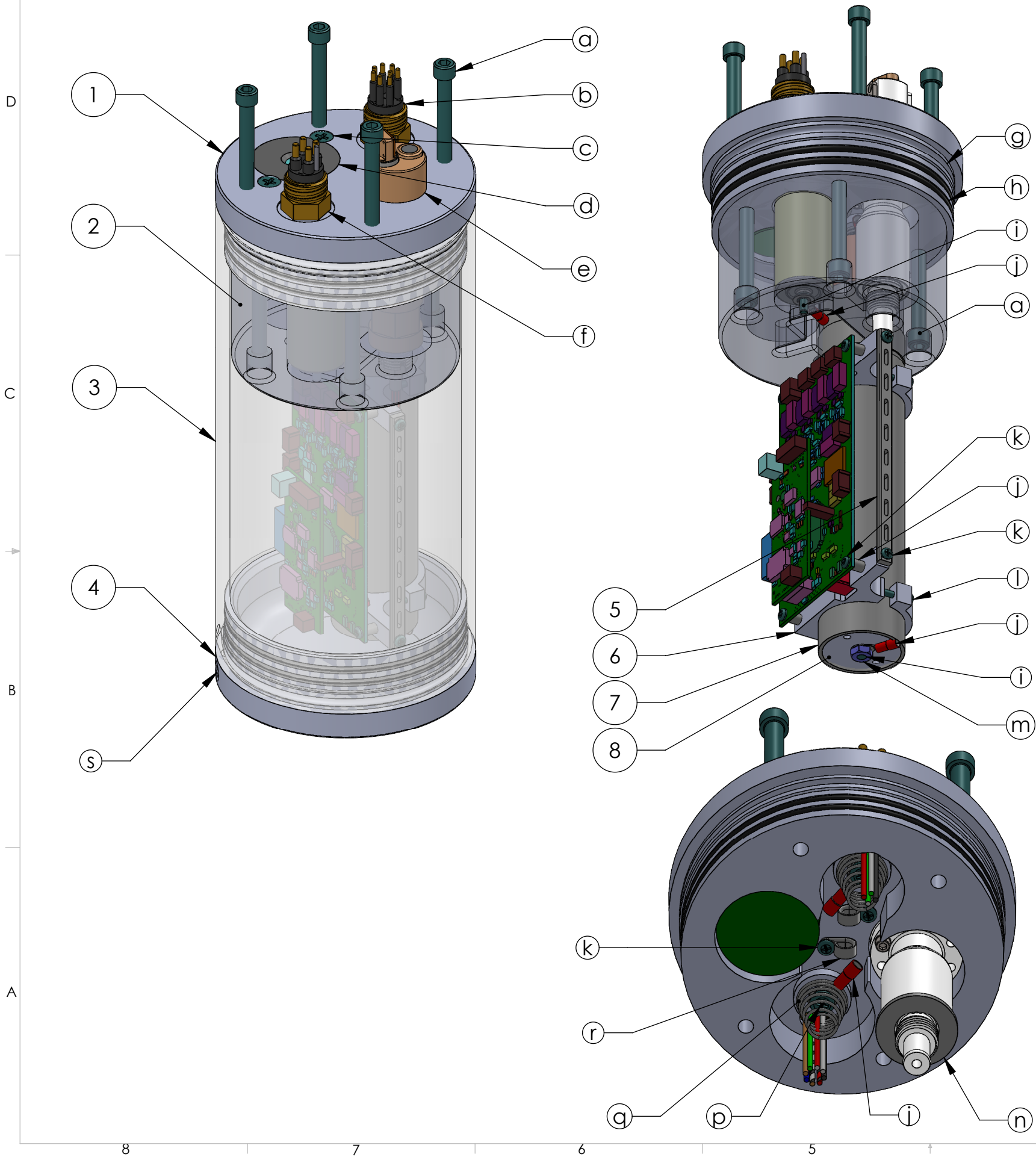


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			



s	1		Vent screw	McMaster 90825A185
r	2		Nylon loop clamp	McMaster 8876T56
q	2		Battery Springs	McMaster 2415N14
p	2		Battery Spring screws	8-32 *0.5 Panhead
n	1		GDF Spacer	1/16" Washer: McMaster 92150A166
m	1		Main Battery nut	8-32 Nut
l	2		Logger bracket screws	4-40*1.0 Panhead
k	8		Logger screws	4-40*0.5 Panhead
j	4		Ring Terminal	e.g., McMaster 69665K74
i	1		Battery + screw	8-32*0.25 Panhead
h	4		O-rings	Viton -155: McMaster 9464K518
g	1		Lock Cord	1/8" PolyPro: McMaster 7889A44
f	1		Pump connector	MCBH4M
e	1		DuraFET pH Sensor	Either: DSD or GDF
d	1		Oxygen Optode	Aanderaa 5730
c	2		Optode screws	5-.8*12mm flathead, McMaster 93395A304
b	1		CTD/COM connector	MCBH8M
a	8		Mounting screws	1/4-20 x 2.25" Socket head, McMaster 92185A553
Item No.	Qty	Part No.	Description	Material Specification

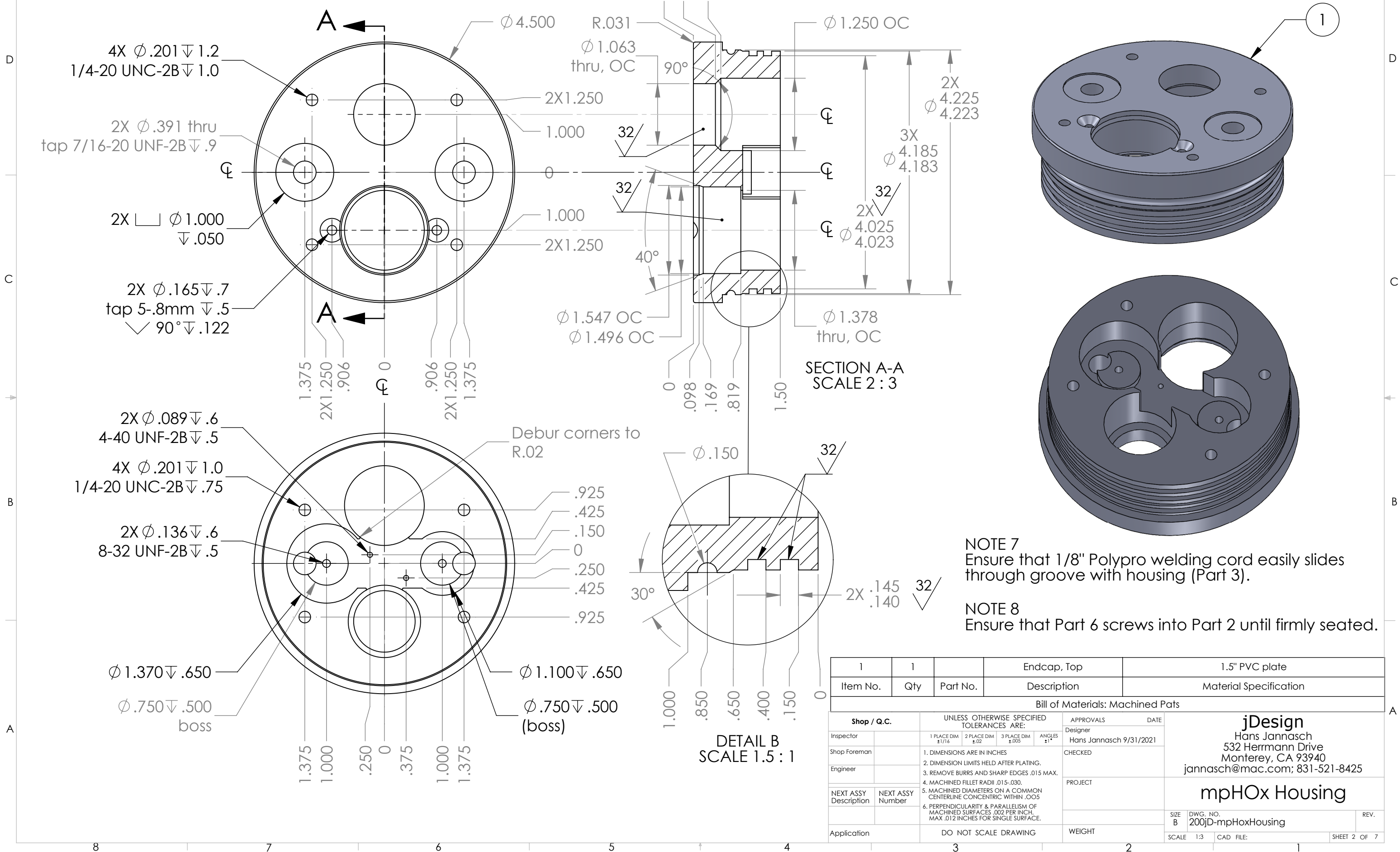
Bill of Materials: Ordered Parts

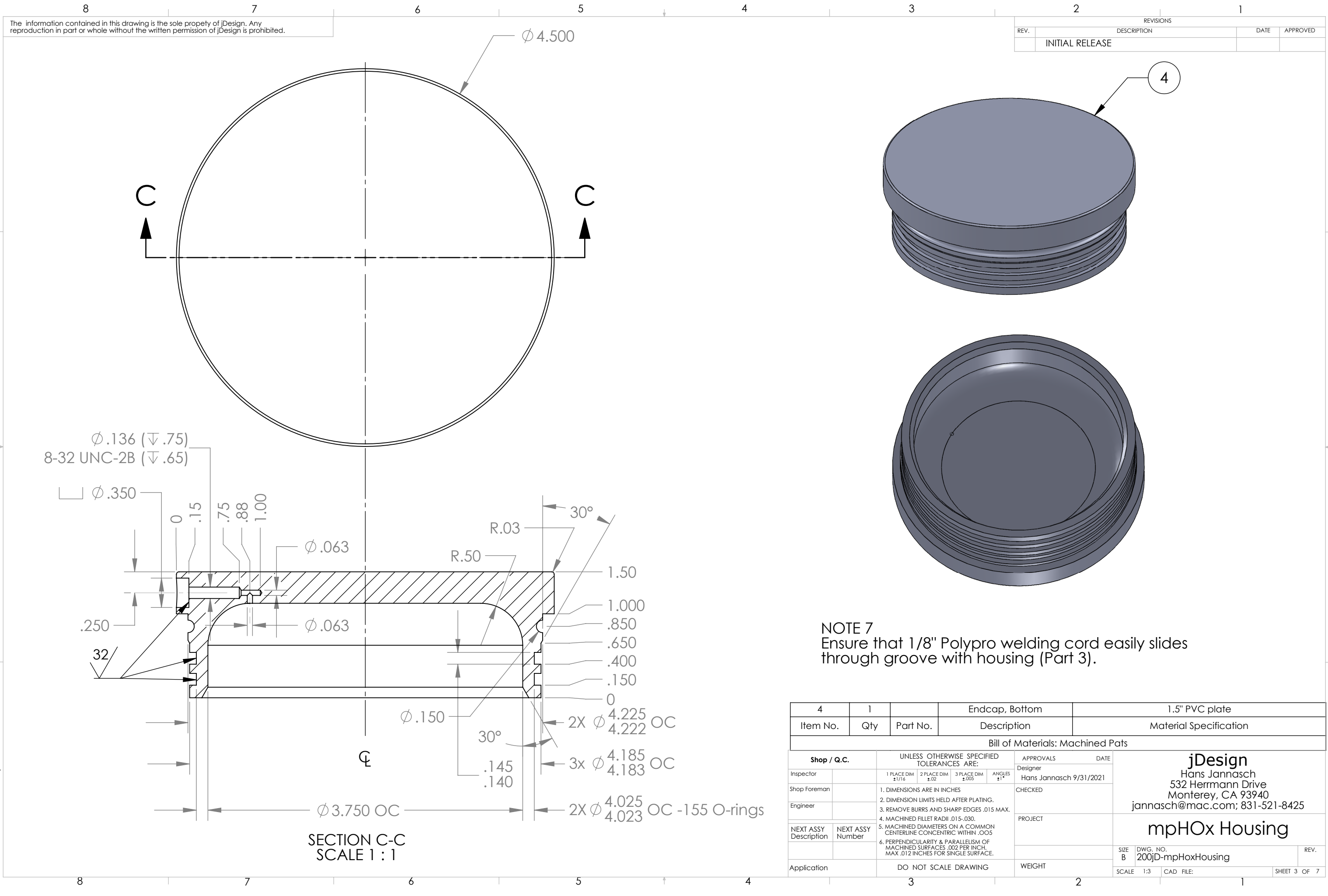
8	1		Batery Retainer	1/4" PVC or Delrin plate
7	2		Logger Mount	3/8" PVC or Delrin plate
6	1		Battery Tube	Stainess Tube; McMaster 1750T211
5	1		Rail	Aluminum: McMaster 4490T173
4	1		Endcap, Bottom	1.5" PVC plate
3	1		Housing Pipe	4" PVC Sched 40 pipe
2	1		Housing Support	4" PVC Rod OR 2-1/8" PVC plate
1	1		Endcap, Top	1.5" PVC plate
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials: Machined Pats

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425 mpHOx Housing		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	Designer	Hans Jannasch	9/31/2021				
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.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.				CHECKED						
Engineer						PROJECT						
NEXT ASSY Description	NEXT ASSY Number					WEIGHT				SIZE B	DWG. NO. 200jD-mpHoxHousing	REV.
Application		DO NOT SCALE DRAWING								SCALE 1:3	CAD FILE:	SHEET 1 OF 7

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
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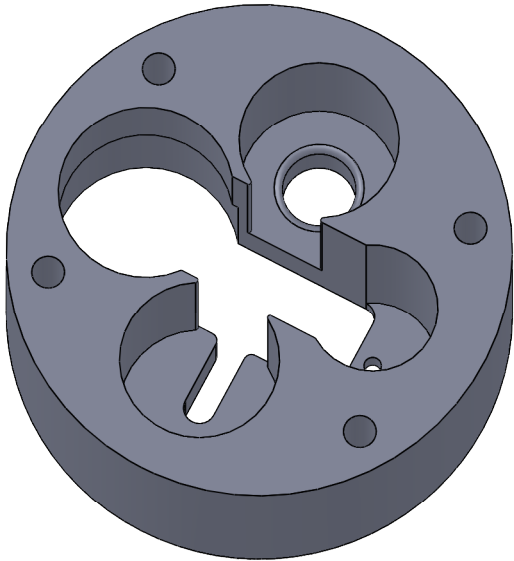
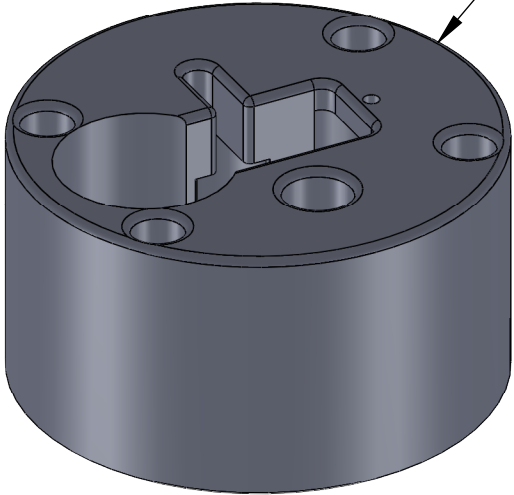
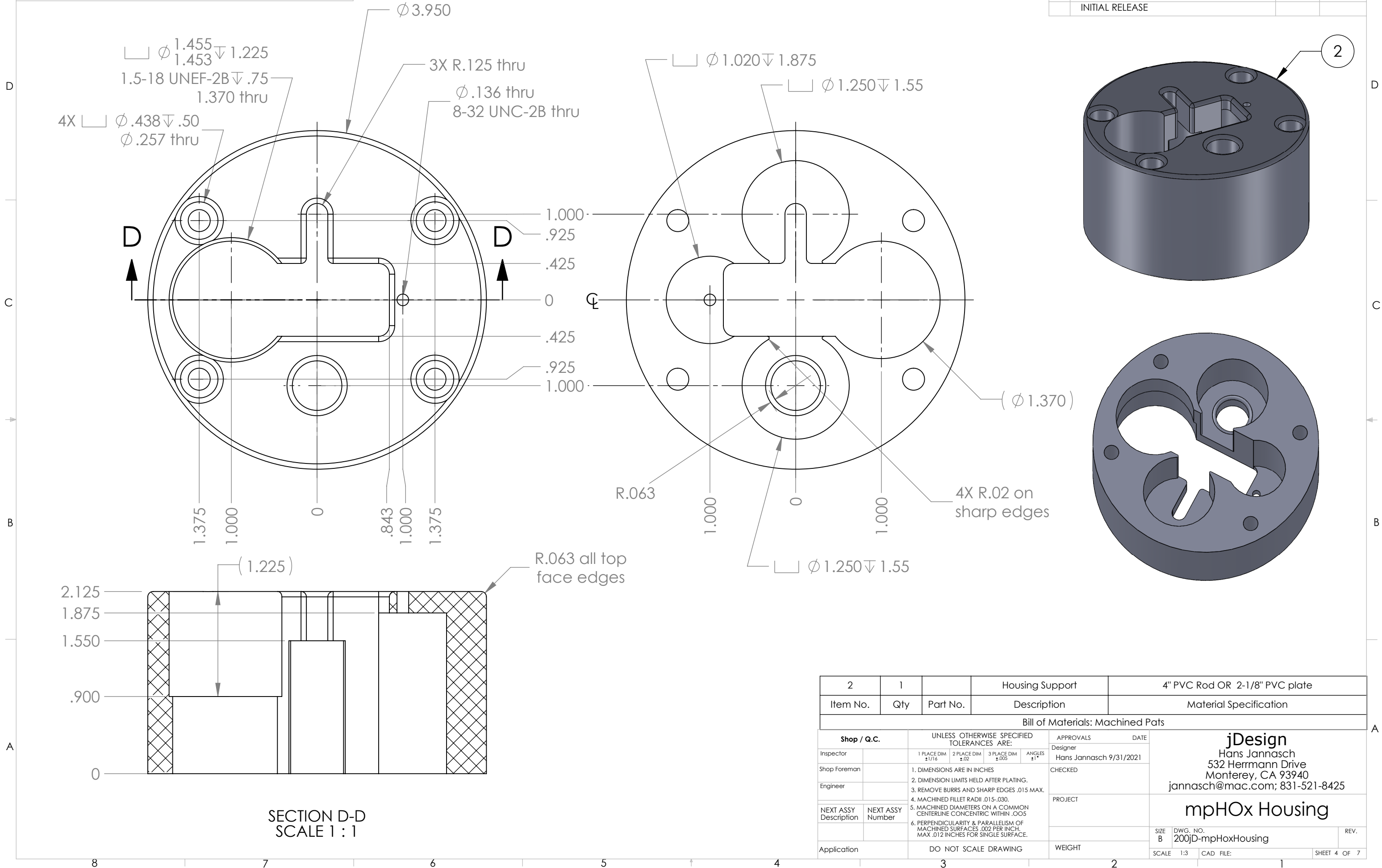
NOTE 7
Ensure that 1/8" Polypro welding cord easily slides through groove with housing (Part 3).

4	1		Endcap, Bottom	1.5" PVC plate	
Item No.	Qty	Part No.	Description	Material Specification	
Bill of Materials: Machined Pats					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES			Designer Hans Jannasch 9/31/2021
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.			CHECKED
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.			
		4. MACHINED FILLET RADII .015-.030.			PROJECT
NEXT ASSY Description	NEXT ASSY Number	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.			
Application		DO NOT SCALE DRAWING		WEIGHT	SIZE B DWG. NO. 200jD-mpHoxHousing REV.
		3		2	

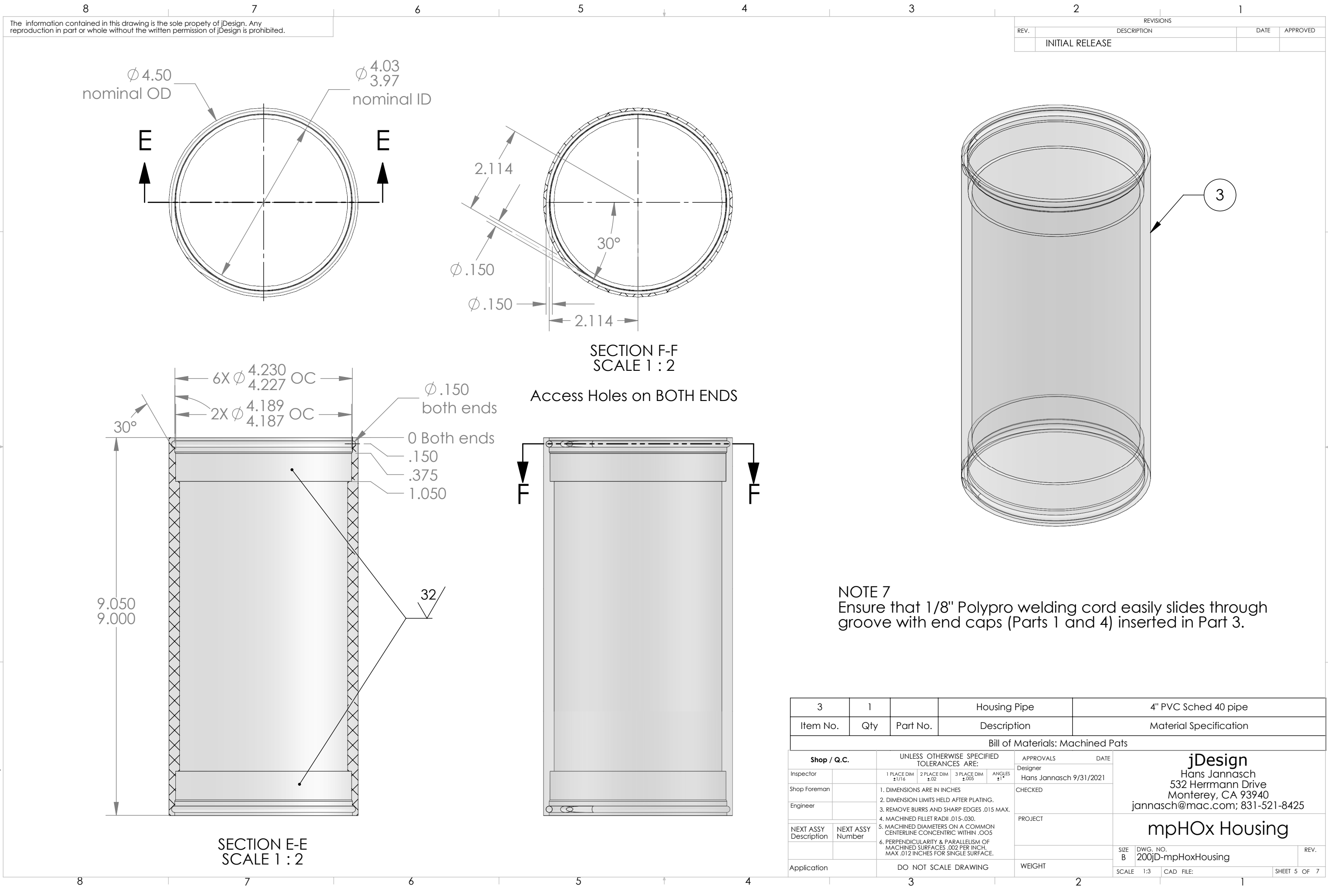
jDesign		REV.
Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425		
mpHOx Housing		
SCALE 1:3	CAD FILE:	SHEET 3 OF 7

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REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

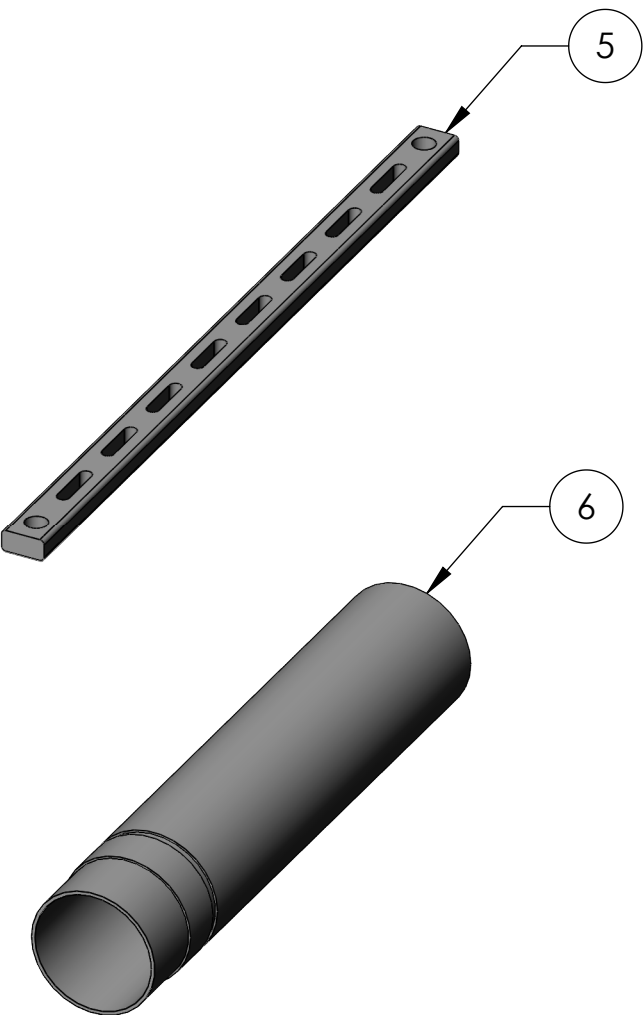
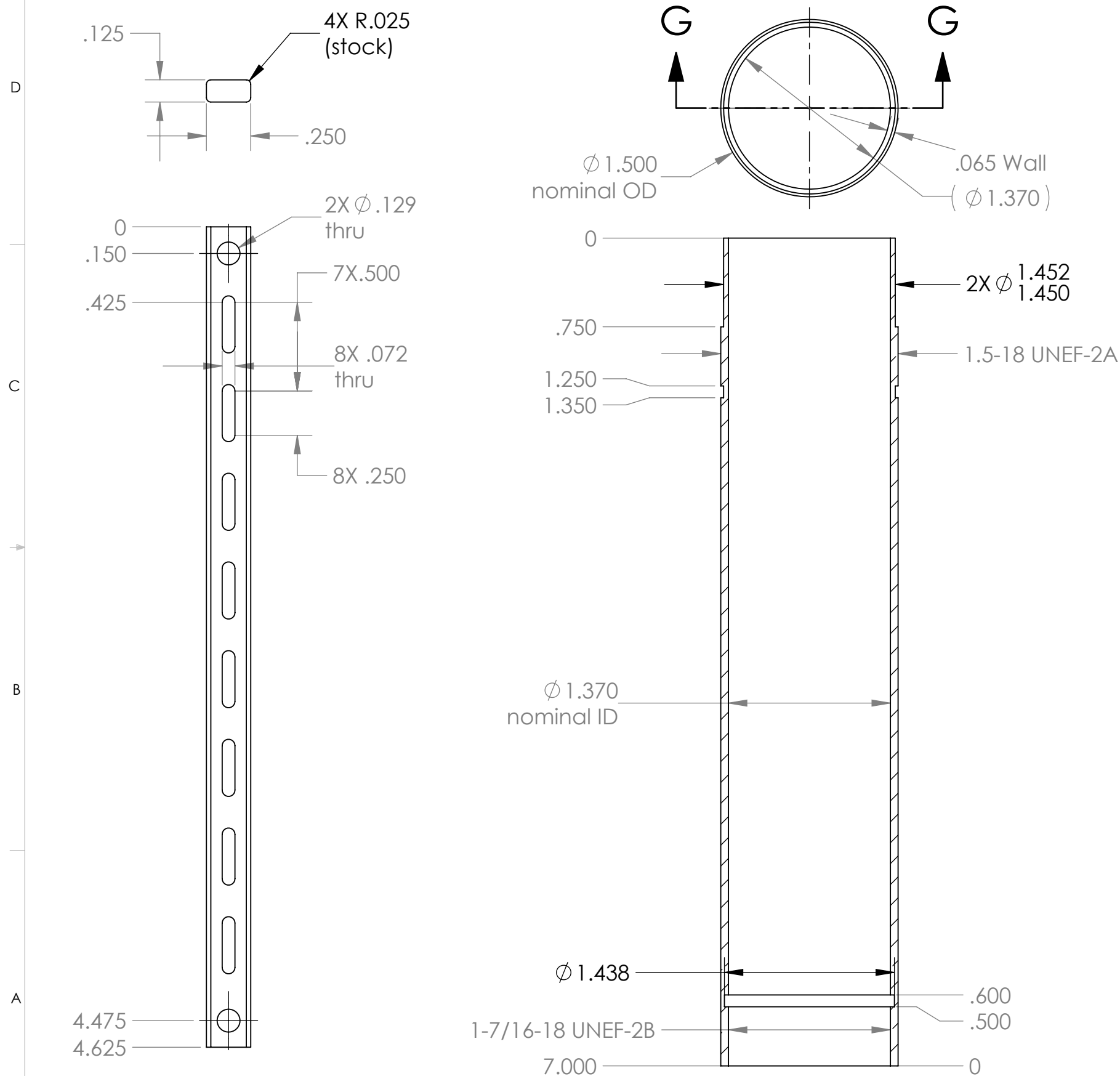


2	1		Housing Support	4" PVC Rod OR 2-1/8" PVC plate					
Item No.	Qty	Part No.	Description	Material Specification					
Bill of Materials: Machined Pats									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE		jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425			
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°		Designer Hans Jannasch 9/31/2021		
Shop Foreman		1. DIMENSIONS ARE IN INCHES			CHECKED				
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.			PROJECT				
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.							
NEXT ASSY Description	NEXT ASSY Number	4. MACHINED FILLET RADII .015-.030.			SIZE B	DWG. NO. 200jD-mpHoxHousing	REV.		
		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.							
Application		DO NOT SCALE DRAWING		WEIGHT		SCALE 1:3		CAD FILE:	SHEET 4 OF 7



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	INITIAL RELEASE		



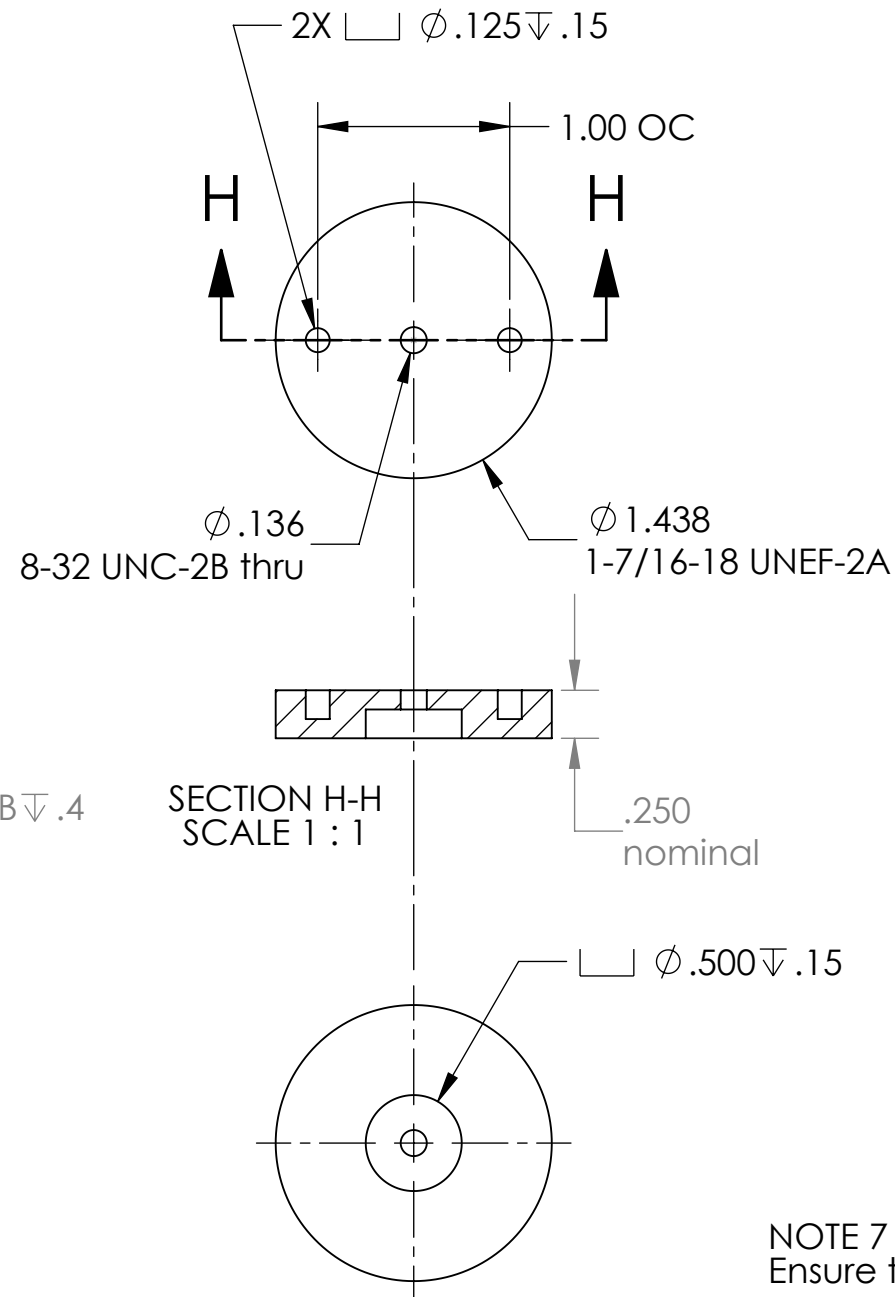
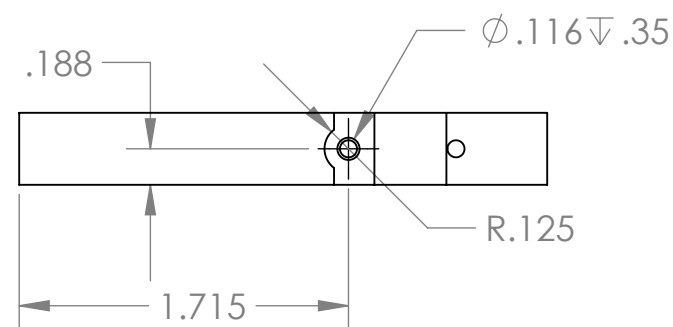
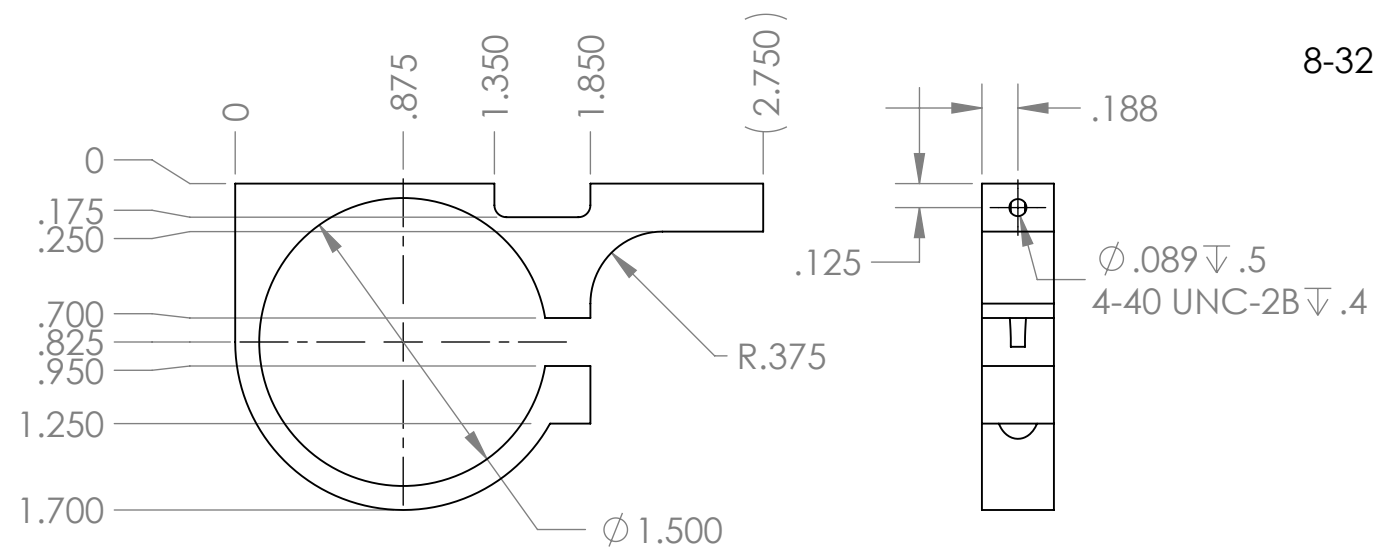
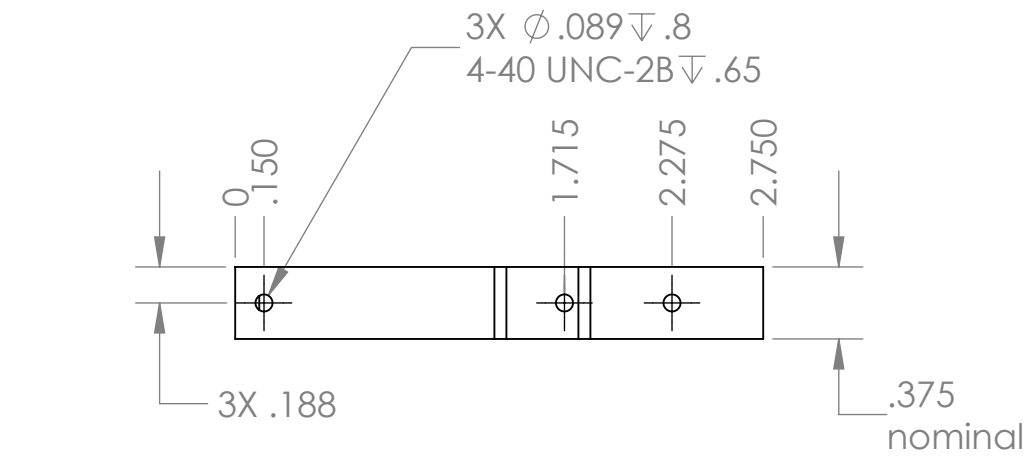
NOTE 7
Ensure that Part 6 screws into Part 2 until firmly seated.

NOTE 8
Ensure that Part 8 easily screws into Part 6.

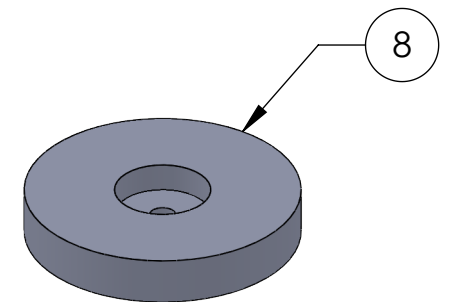
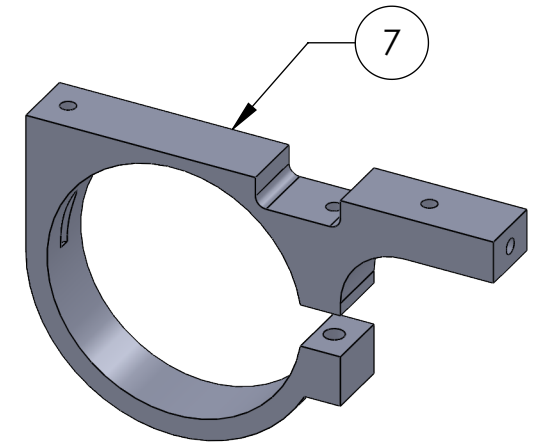
6	1		Battery Tube	Stainless Tube; McMaster 1750T211				
5	1		Rail	Aluminum: McMaster 4490T173				
Item No.	Qty	Part No.	Description	Material Specification				
Bill of Materials: Machined Pats								
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425 mpHOx Housing				
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02		3 PLACE DIM ±.005	ANGLES ±1°	APPROVALS	DATE
Shop Foreman		1. DIMENSIONS ARE IN INCHES				Designer	Hans Jannasch 9/31/2021	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED		
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT		
		4. MACHINED FILLET RADII .015-.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.						
Application		DO NOT SCALE DRAWING		WEIGHT		SIZE B	DWG. NO. 200JD-mpHoxHousing	REV.
						SCALE 1:3	CAD FILE:	SHEET 6 OF 7

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NOTE 7
Ensure that Part 8 easily screws into Part 6.



8	1		Battery Retainer	1/4" PVC or Delrin plate
7	2		Logger Mount	3/8" PVC or Delrin plate
Item No.	Qty	Part No.	Description	Material Specification
Bill of Materials: Machined Parts				

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE		jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	Designer Hans Jannasch 9/31/2021			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.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.				CHECKED			
Engineer						PROJECT			
NEXT ASSY Description	NEXT ASSY Number								
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B DWG. NO. 200jD-mpHoxHousing REV.	
						SCALE 1:3 CAD FILE:		SHEET 7 OF 7	