
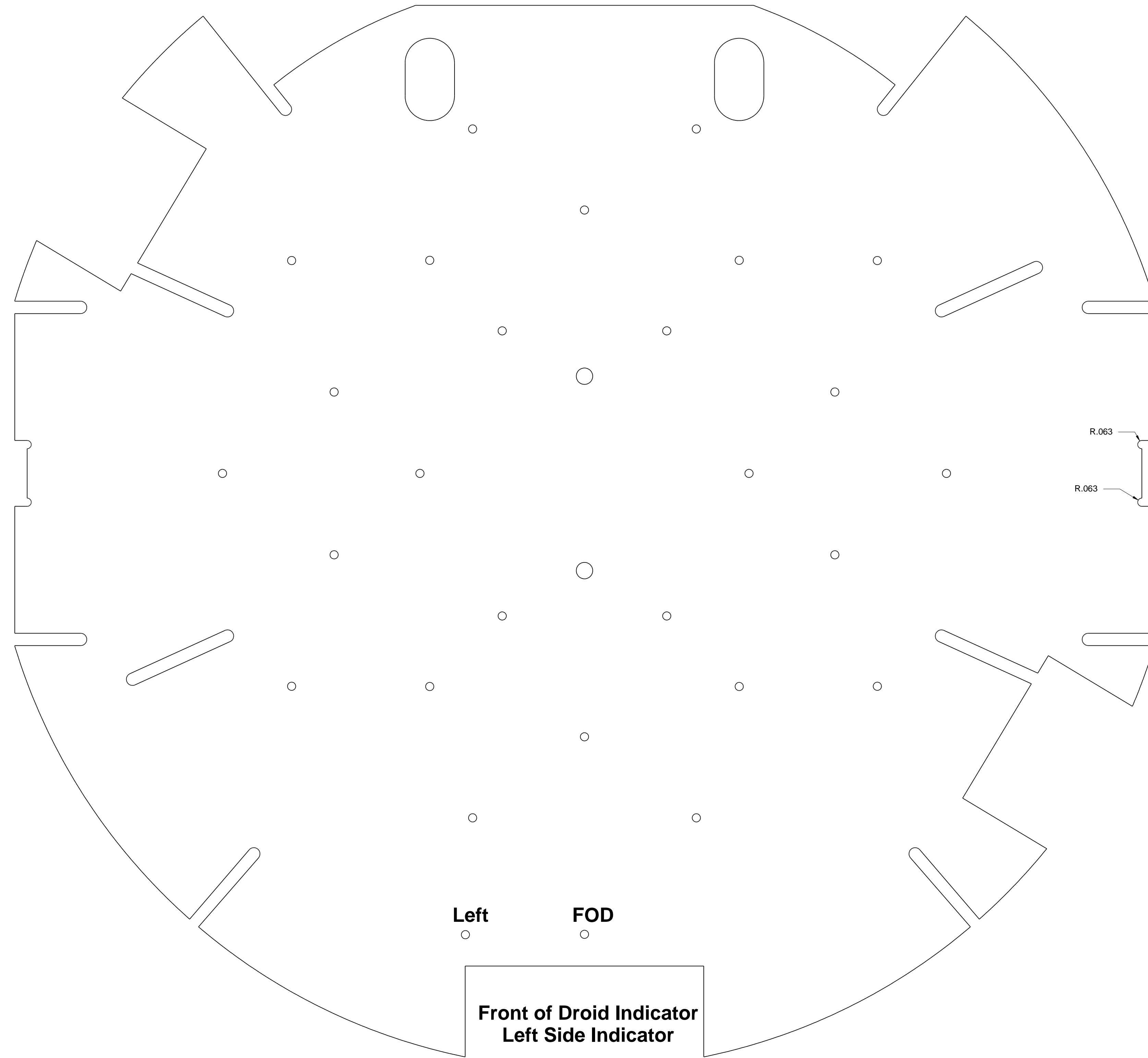


The balance of the skirt parts are the same as those used for the skirt supplied with the EggCrate Frame.
See: <http://www.r2d2.media-conversions.net/R2.skirt.html>
For both drawings and assembly instructions.
Those parts are cut from .125 and .040 thick HIPS

Ring 0 - Skirt Base

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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET



Left

FOD


Front of Droid Indicator
Left Side Indicator

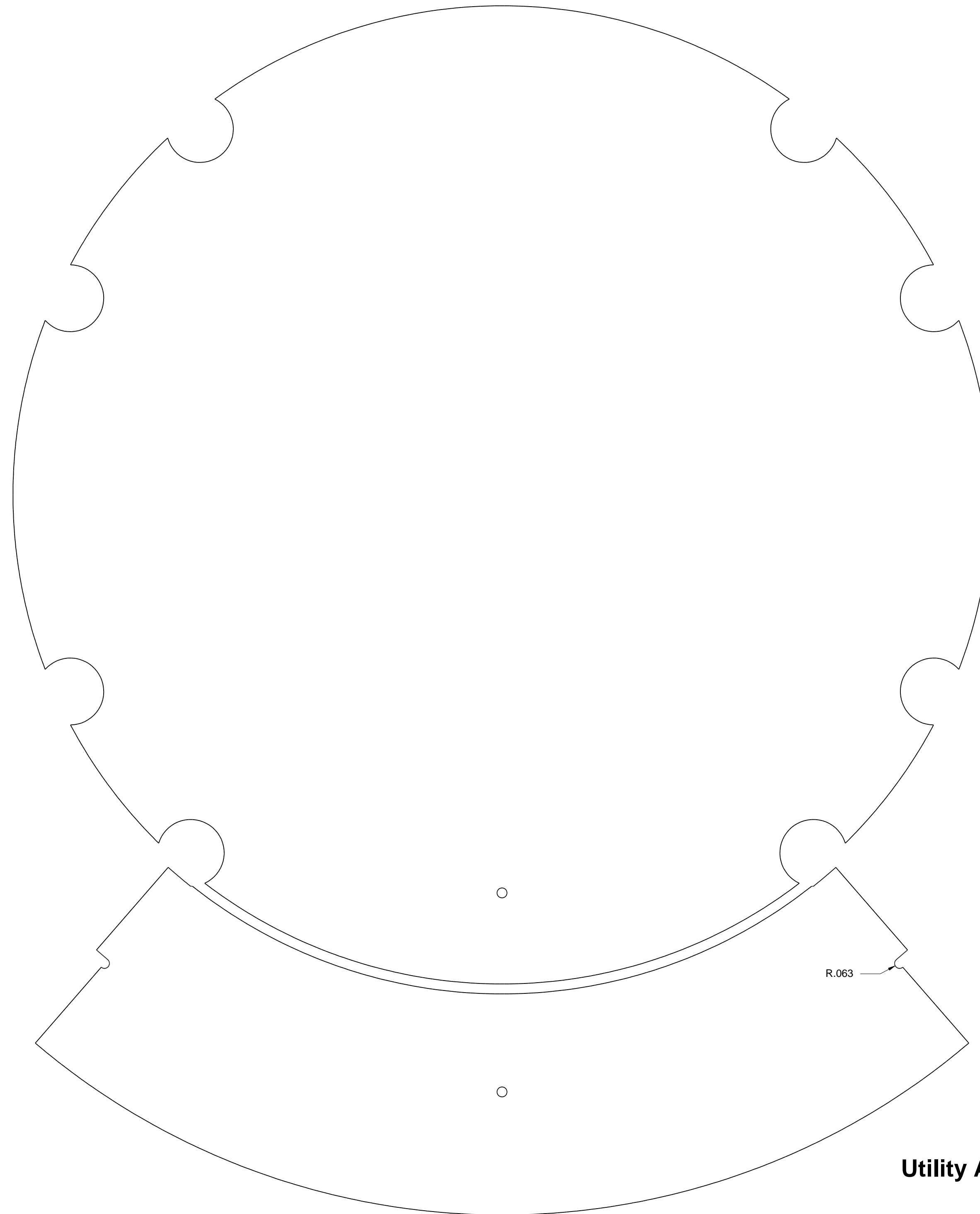
R.063

R.063

Ring 1 - Frame Bottom

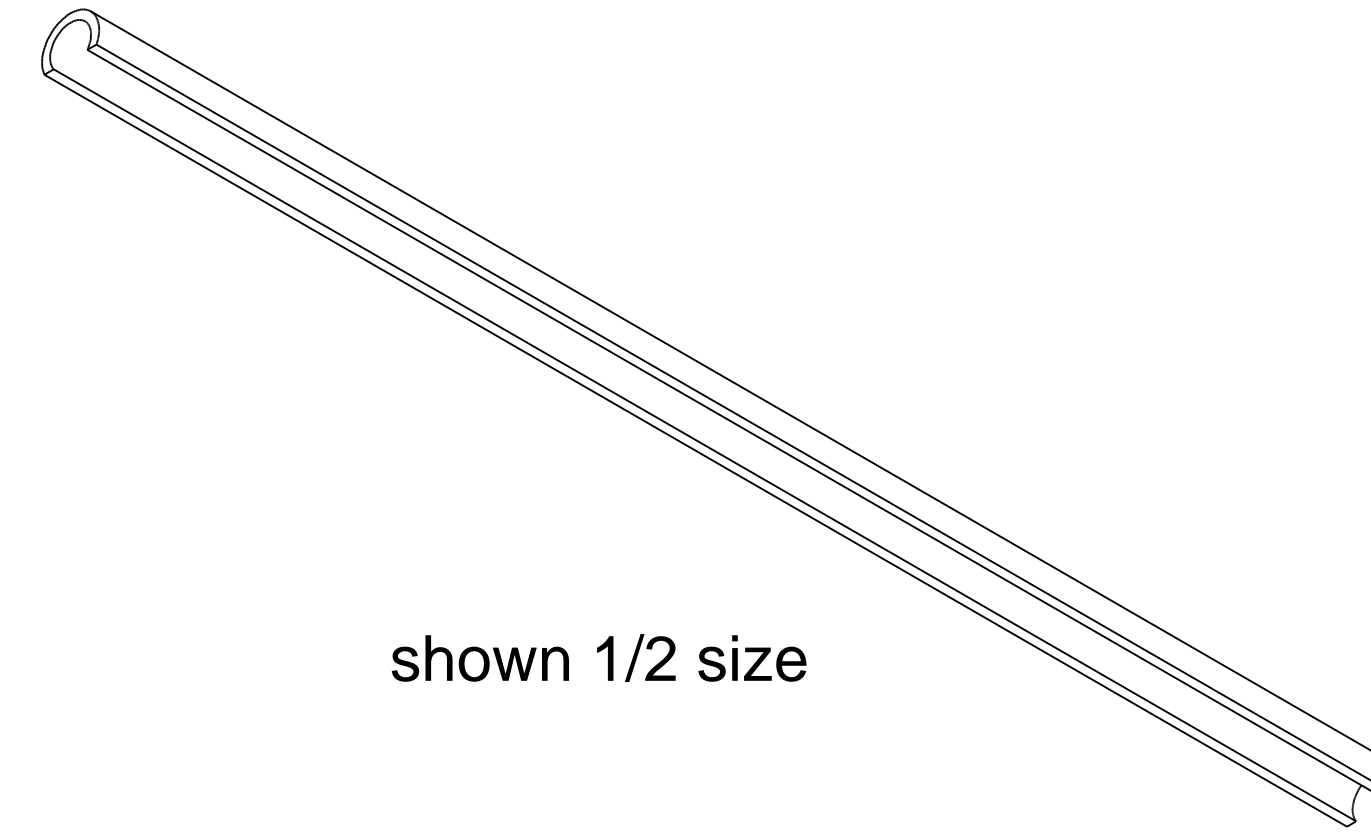
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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET

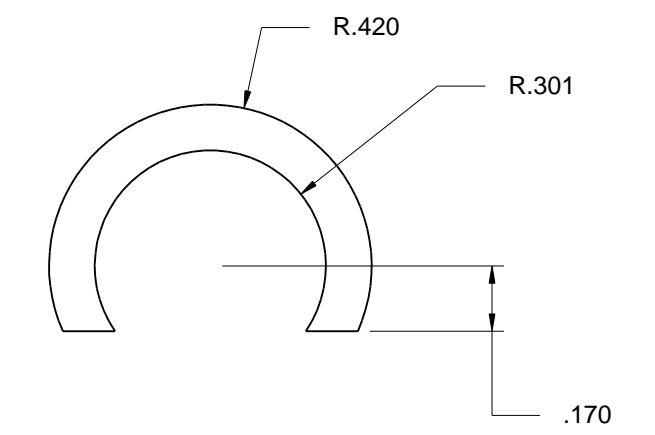


Utility Arm Ring - Lower

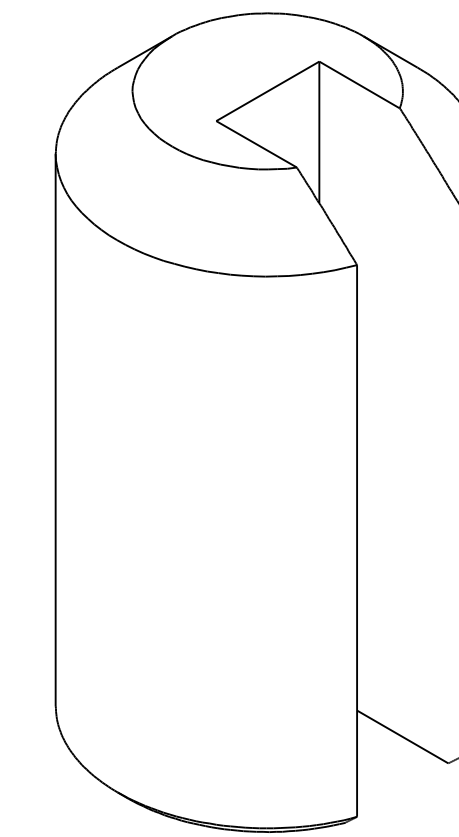
Schedule 40 1/2 inch PVC Pipe
 Cut 19 3/16 long
 .25 inch removed from edge



shown 1/2 size



shown 2x size



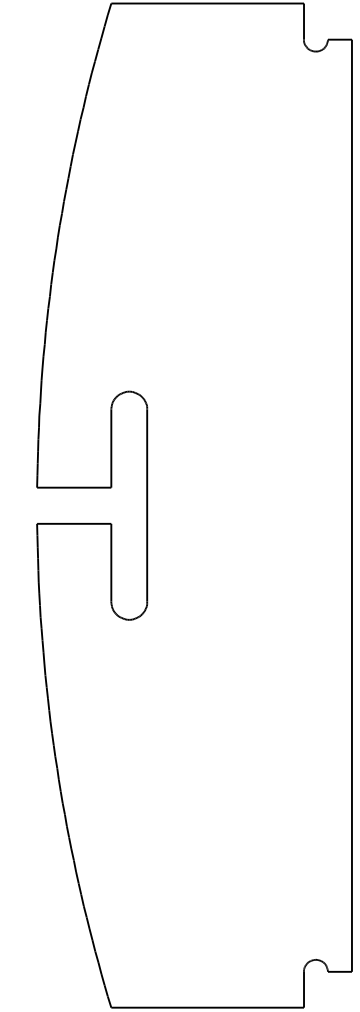
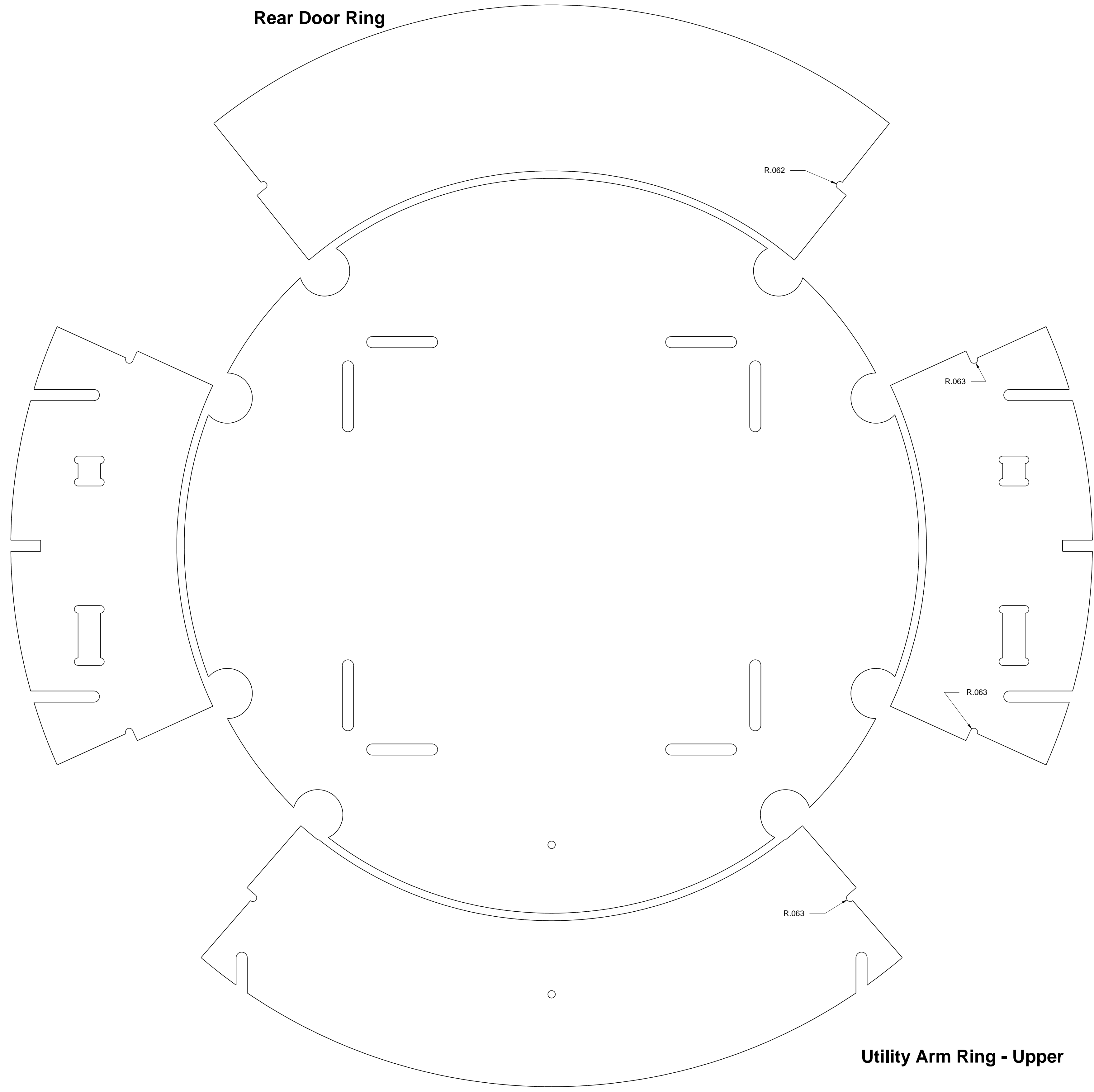
Slider
 shown 5x size
 consult Step design file for 3D printing

Core 2

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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET

Rear Door Ring



Ankle Slice Ring
qty 2

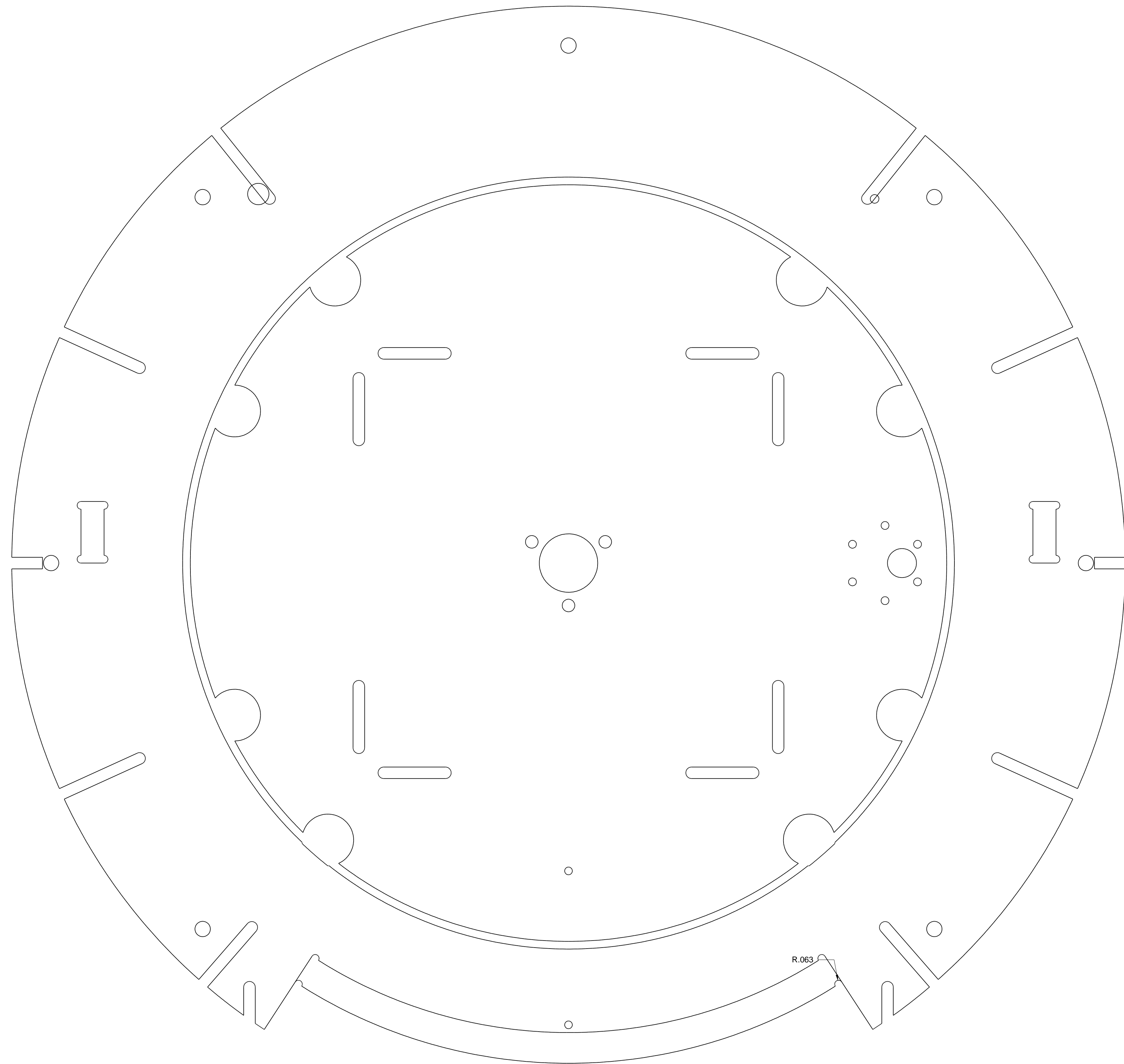
Under Shoulder Ring
qty 2

Utility Arm Ring - Upper

Ring 3 - Core 3

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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET




Bolt pattern in Core 4 is designed for Pololu 37D 100:1 gearmotor part #1106

I used their 6mm hub to mount the Dome Motivator spur gear part #1083

www.pololu.com

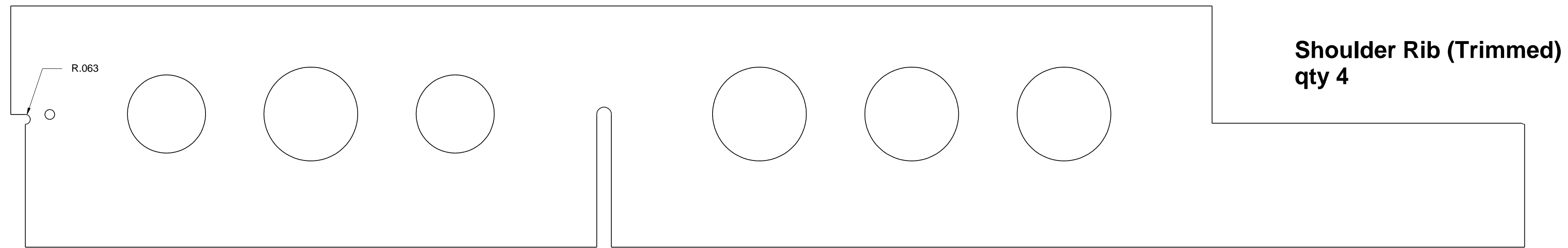
Ring 4 & Core 4 - top

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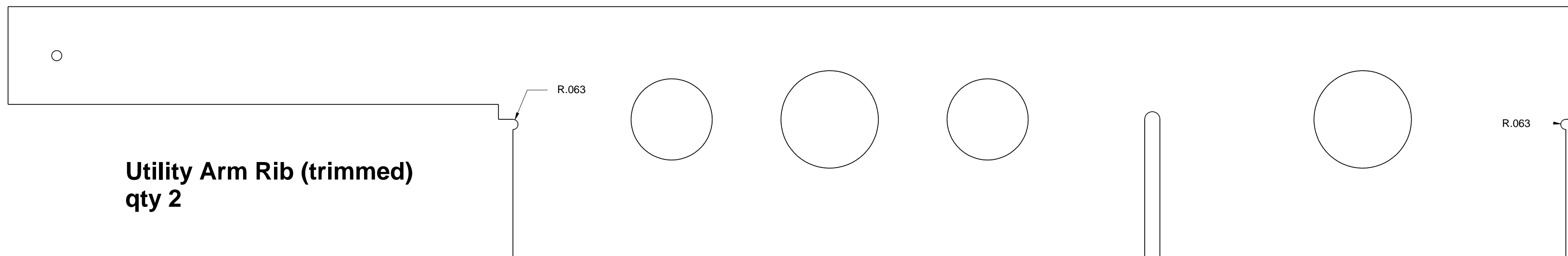
DRAWN	DATE				
CHECKED					
QA		SIZE	FSCM NO.	DWG NO.	REV
MFG		C			
APPROVED		SCALE			SHEET

cut pocket .0625 deep

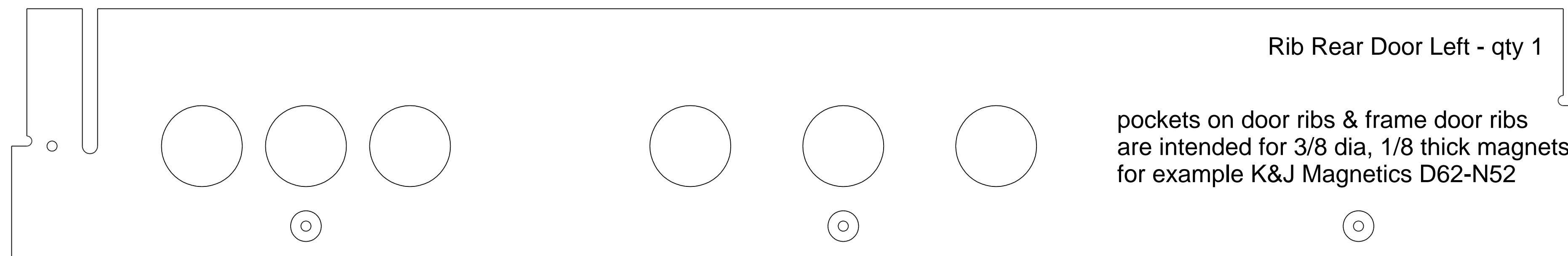
R.063



Shoulder Rib (Trimmed)
qty 4



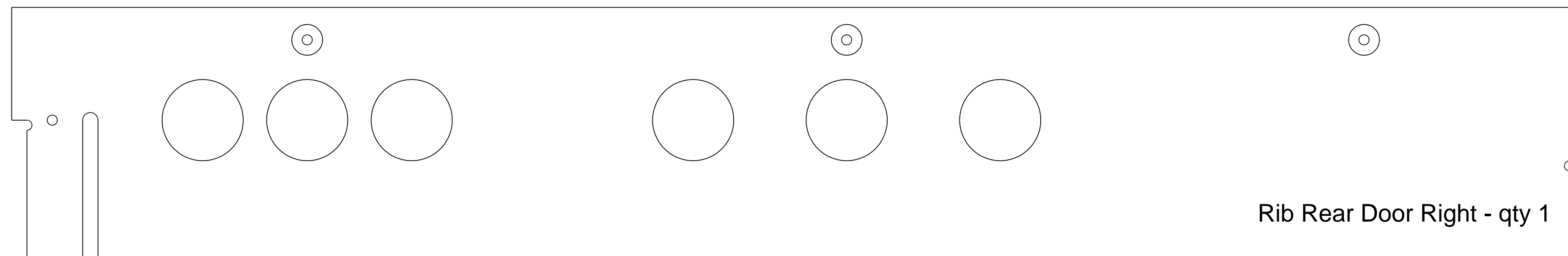
Utility Arm Rib (trimmed)
qty 2



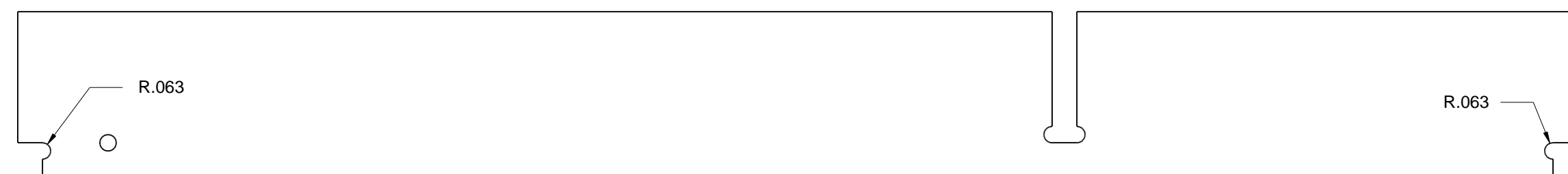
Rib Rear Door Left - qty 1

pockets on door ribs & frame door ribs
are intended for 3/8 dia, 1/8 thick magnets
for example K&J Magnetics D62-N52

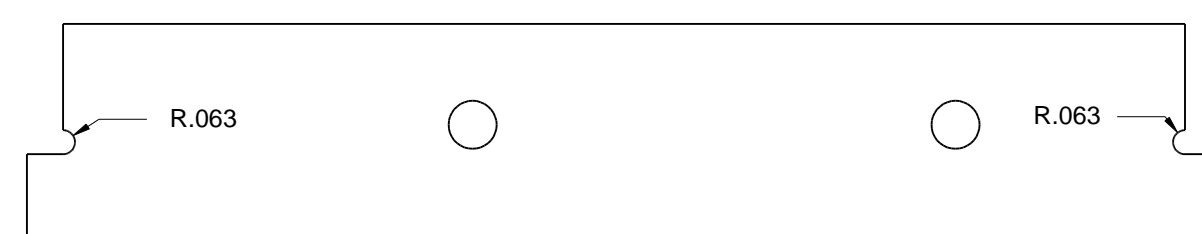
Rear Door Rib Pockets - .125 deep - 6 places



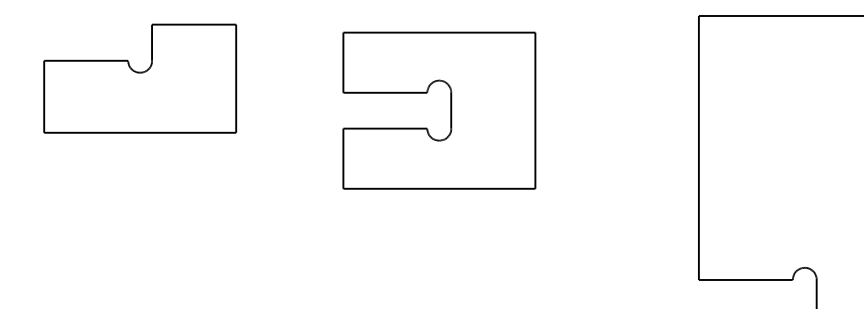
Rib Rear Door Right - qty 1



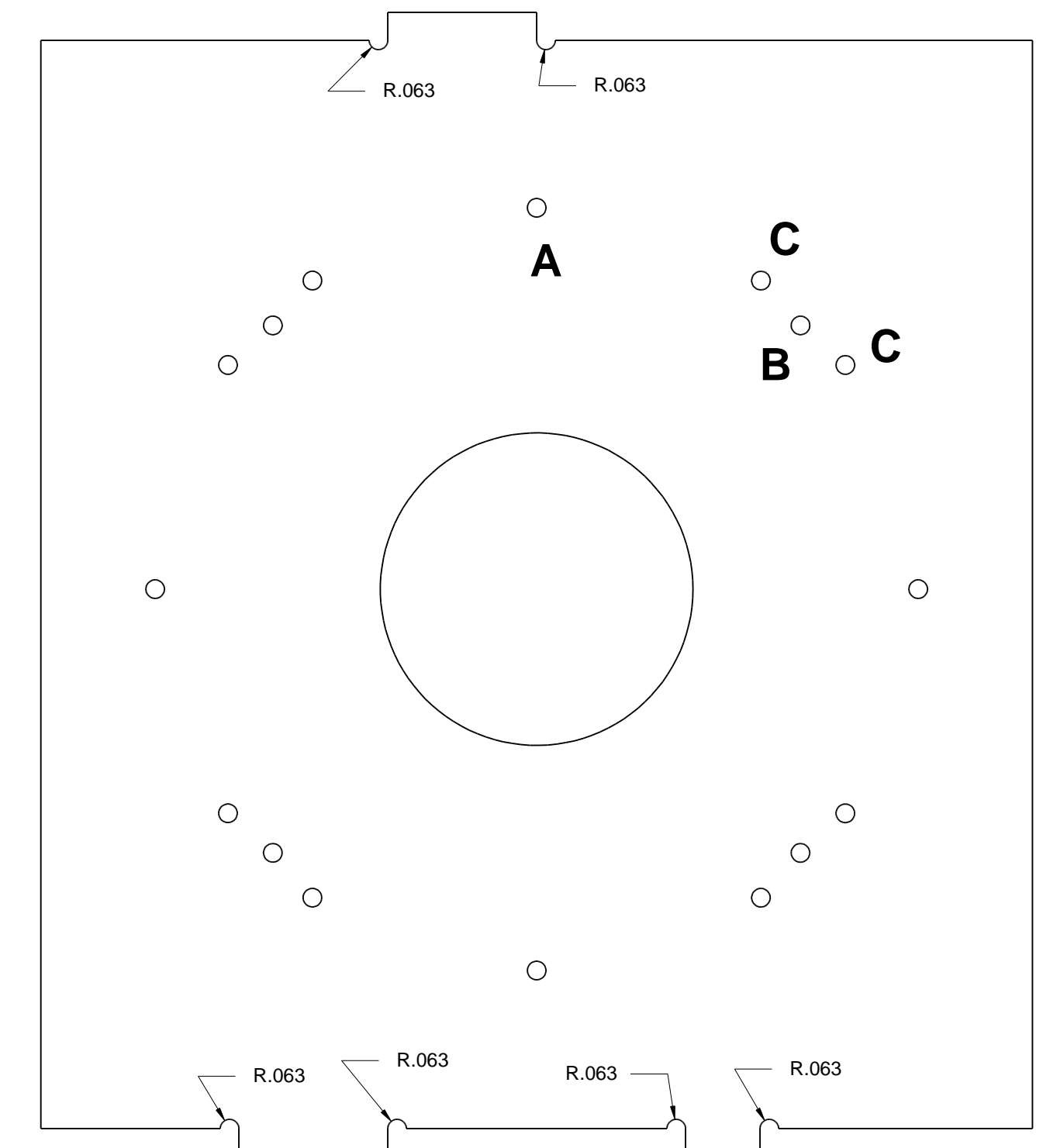
Ankle Slice Rib
qty 4



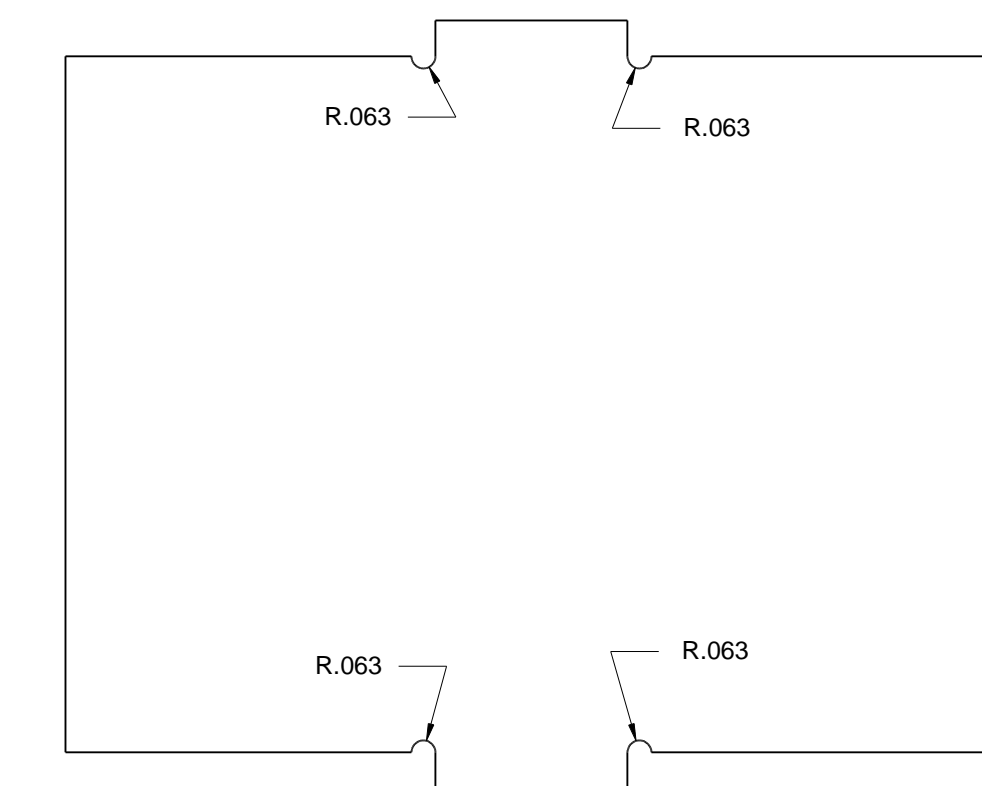
Utility Arm Box Ribs
qty 2
Insert 8-32 Nutserts
as shown in assembly drawings



Skin Support Ribs
upper - middle - lower
qty 2 each



Shoulder Plate - qty 4
Mounting holes marked
A are for CSR legs in the 2-leg position
B are for MC Legacy 2 or 3 Leg Shoulder hubs
C are for CSR legs in the 3-leg position

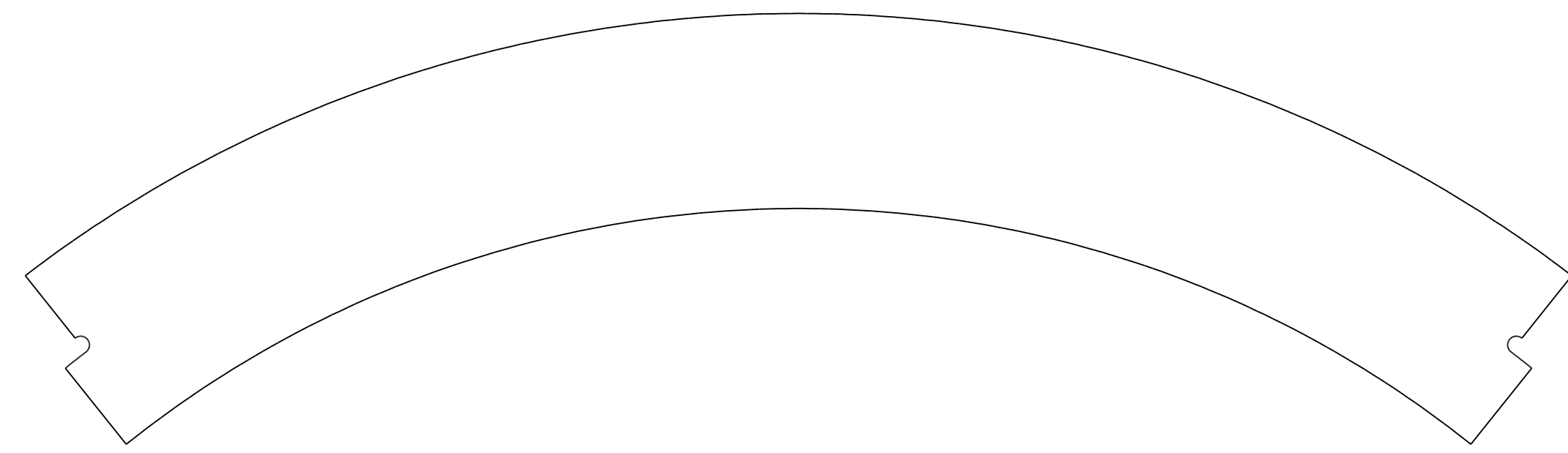


Ankle Slice Plate
qty 2

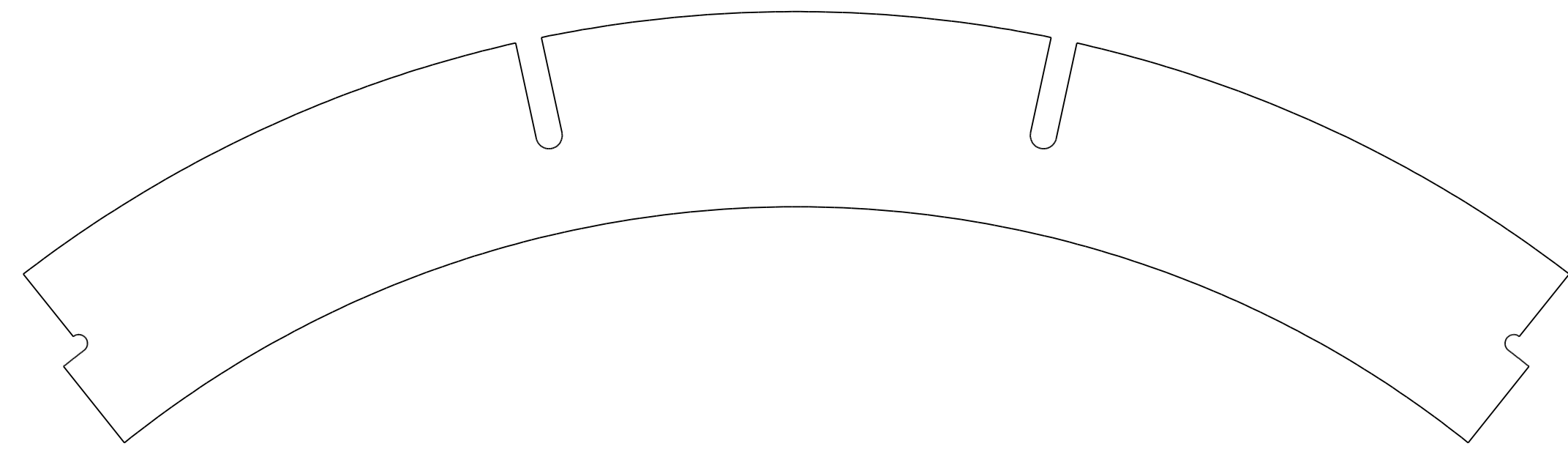
Ribs & Plates

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DRAWN	DATE			REV
CHECKED				
QA		SIZE C	FSCM NO.	DWG NO.
MFG		SCALE		SHEET
APPROVED				



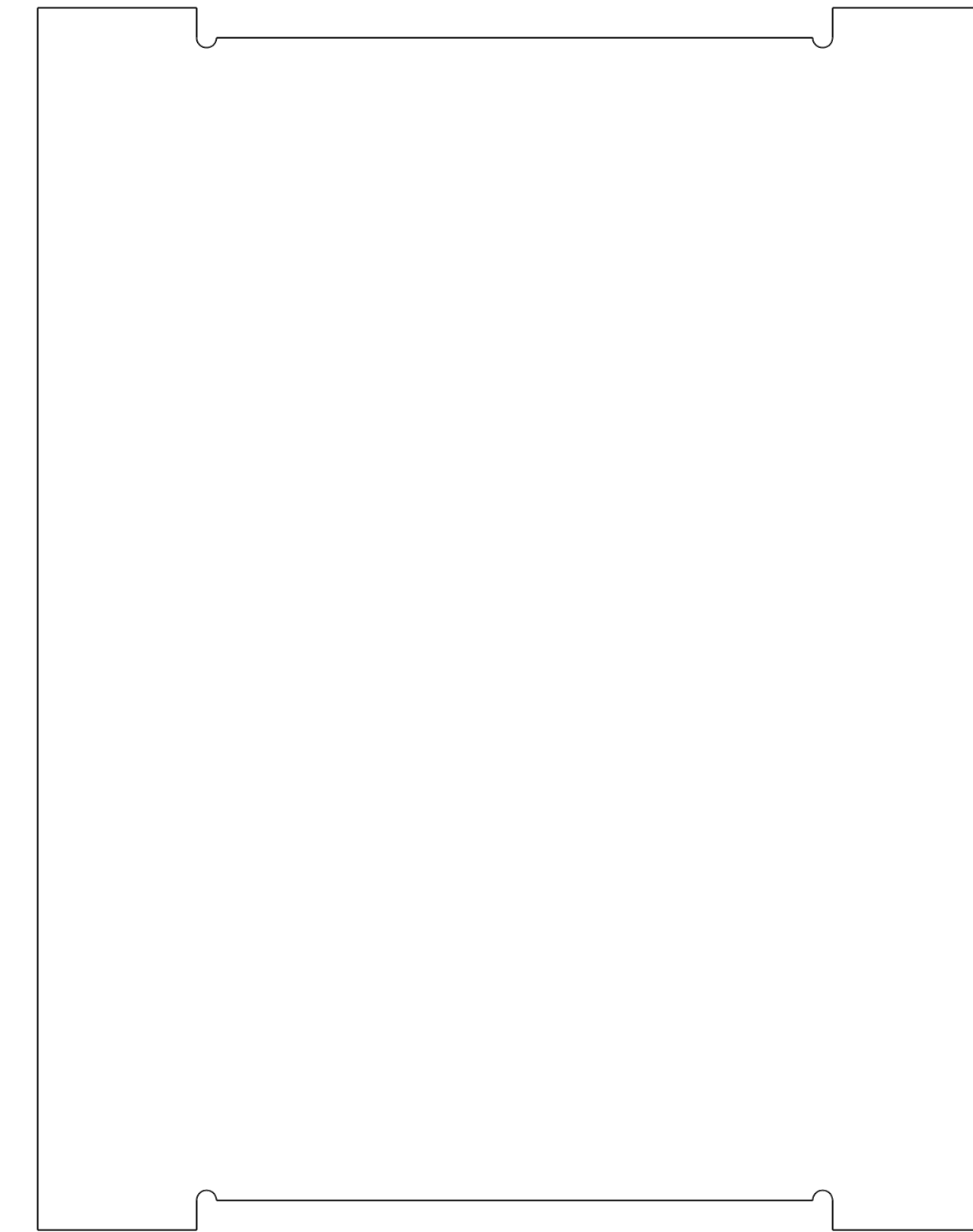
Door Top Ring



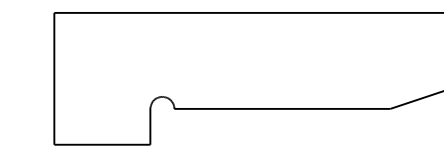
Door Middle Ring - qty 2



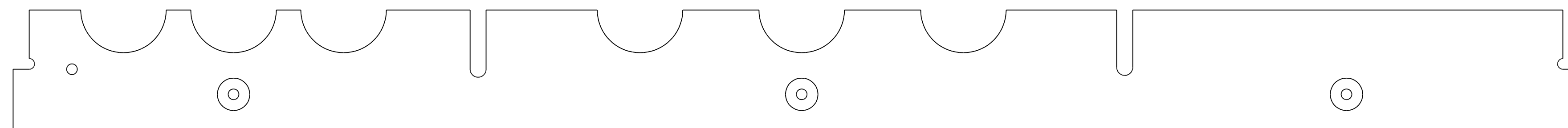
Door Bottom Ring



Core Mounting Panel
qty 2

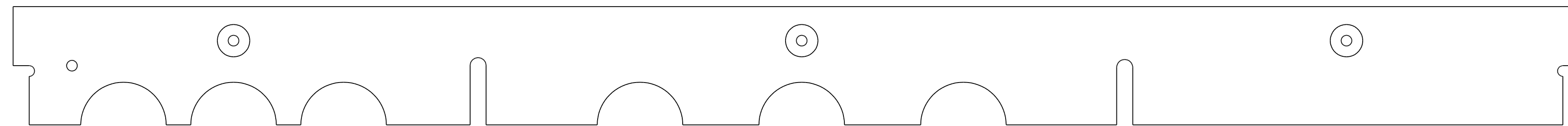


Door Key
qty 2



Door Outer Rib Right
Qty 1

Outer Door Rib Pockets - .125 deep - 6 places



Door Outer Rib Left
Qty 1

pockets on door ribs & frame door ribs
are intended for 3/8 dia, 1/8 thick magnets
for example K&J Magnetics D62-N52

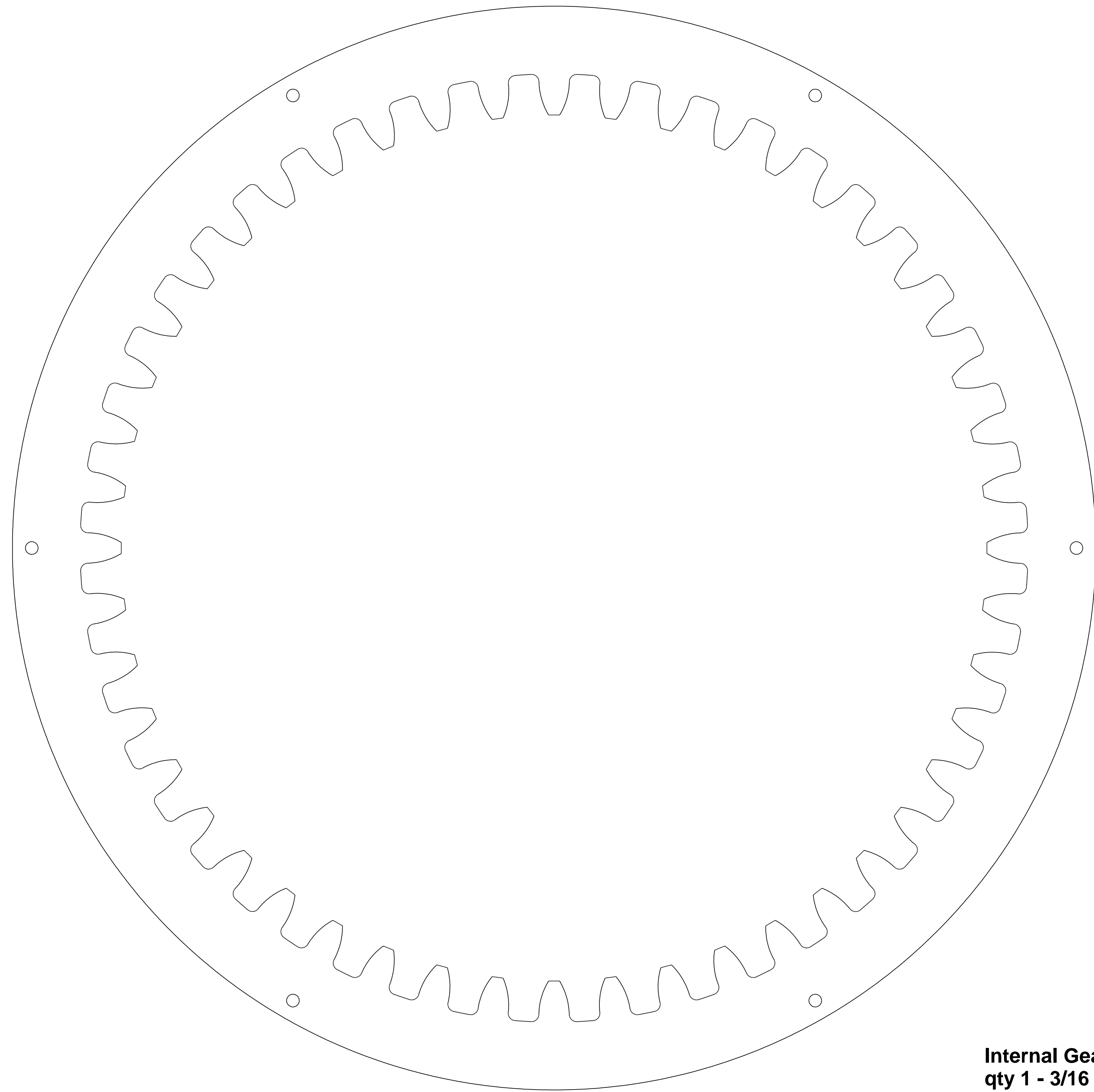


Door Inner Rib - qty 2

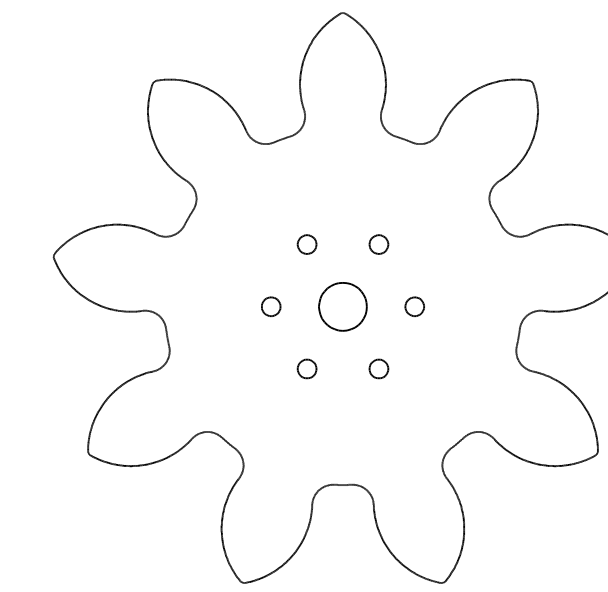
Rear Door Parts

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DRAWN	DATE	Media Conversions			
CHECKED					
QA		SIZE C	FSCM NO.	DWG NO.	REV
MFG		SCALE			SHEET
APPROVED					




Internal Gear
qty 1 - 3/16 thick

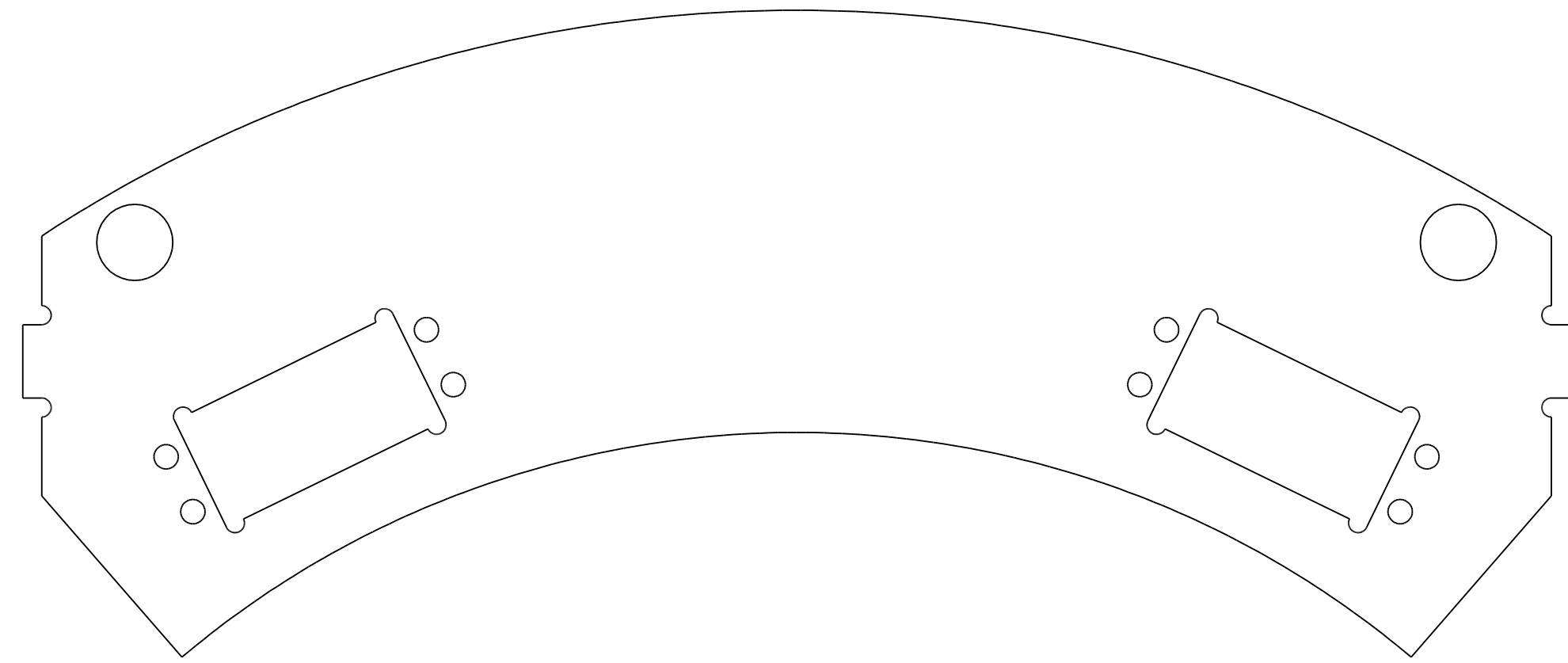


Spur Gear
qty 1 - 3/16 thick

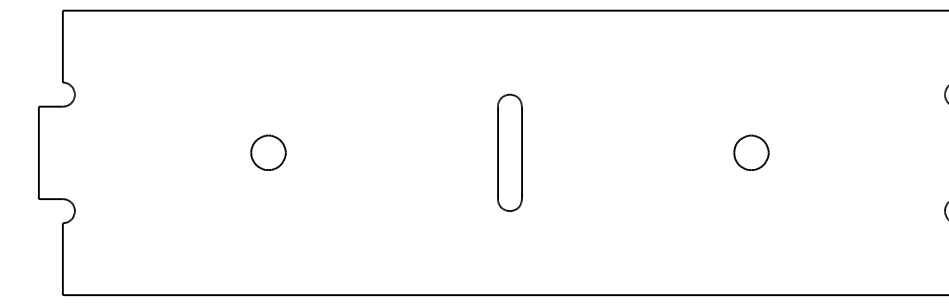
Dome Motivator

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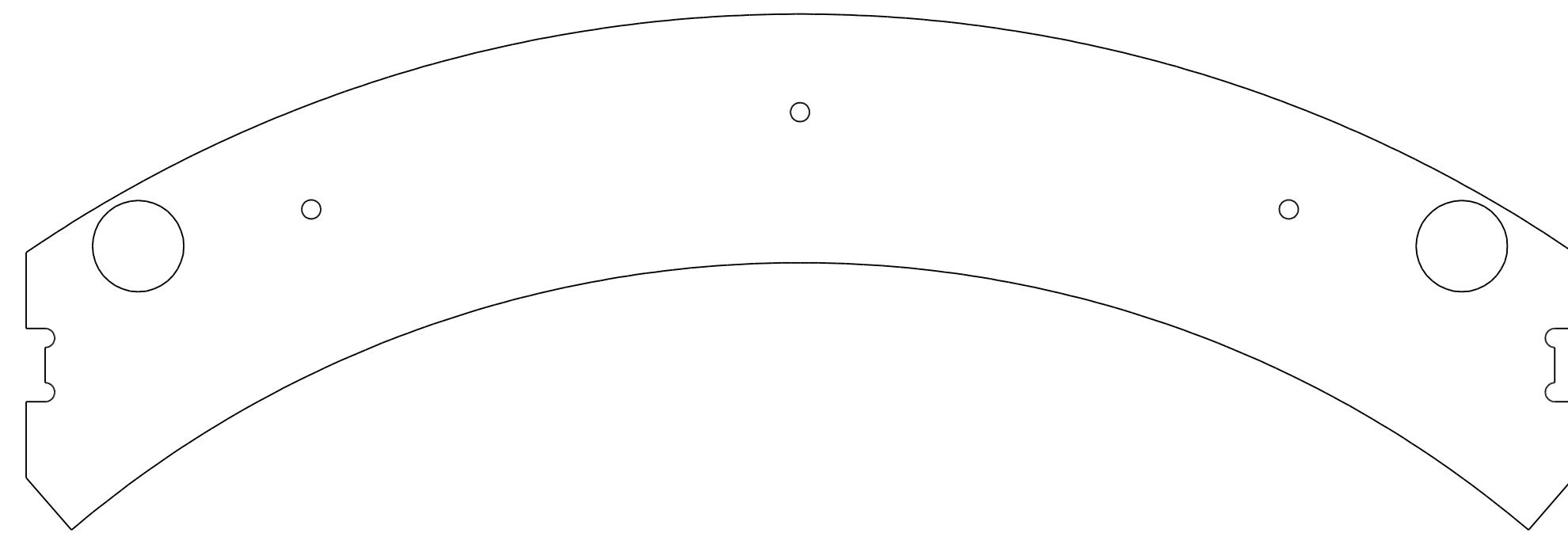
DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET



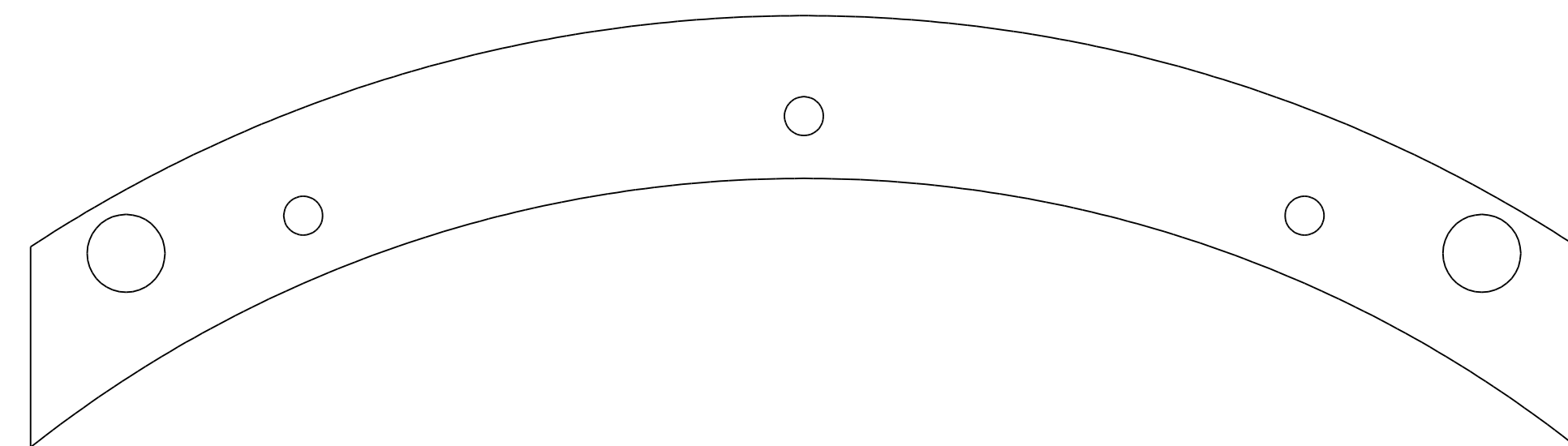
Arm Box Servo Mount
qty 1 - .125 thick



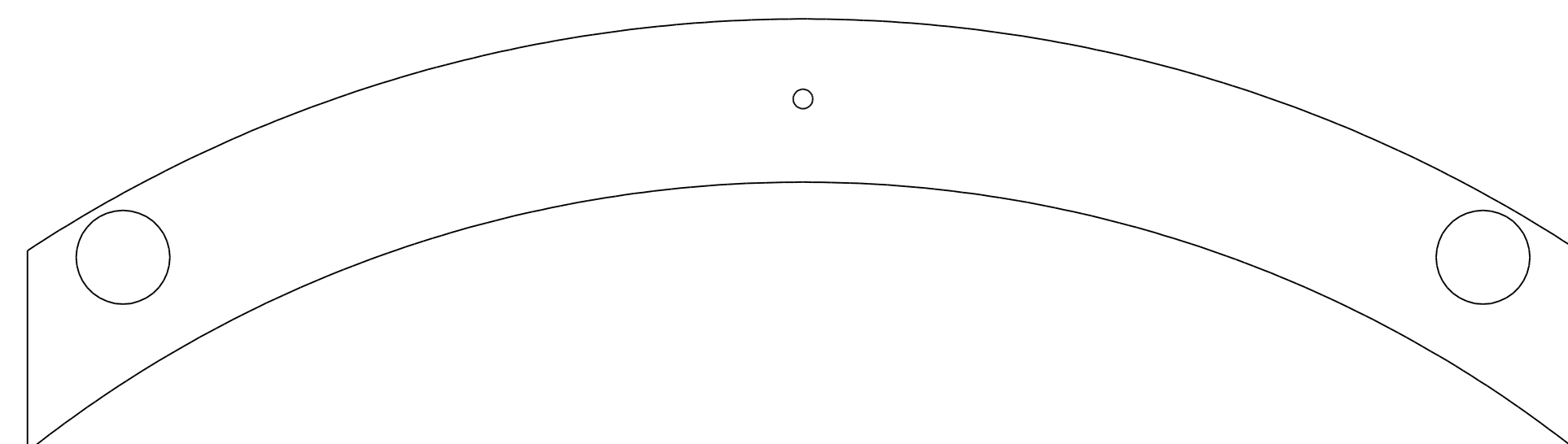
Arm Box Side
qty 2 - .125 thick



Arm Box Top/Bottom
qty 2 - .125 thick




Arm Box Inside - small hole
qty 2 - .125 thick

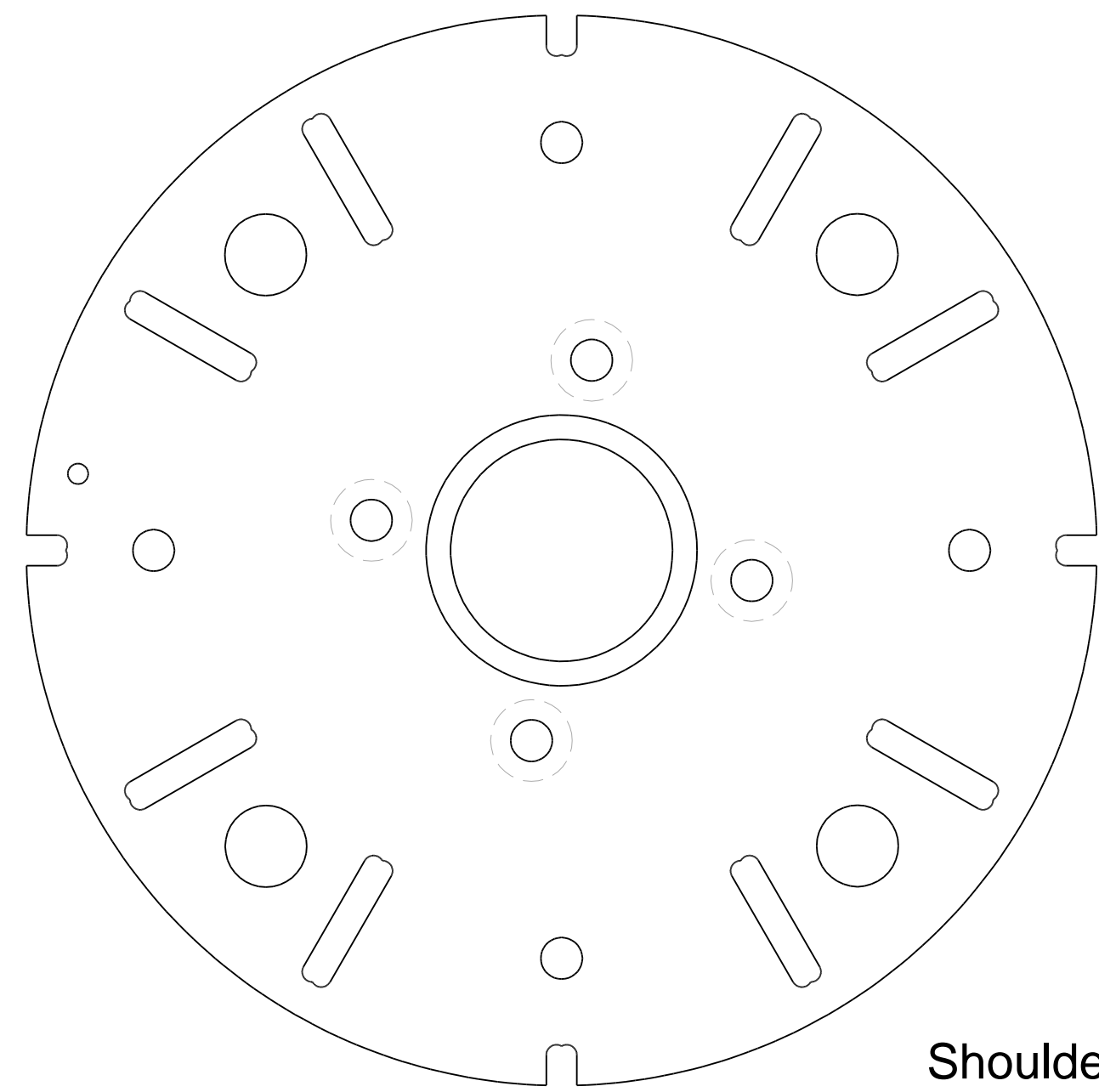


Arm Box Inside - large hole
qty 2 - .125 thick

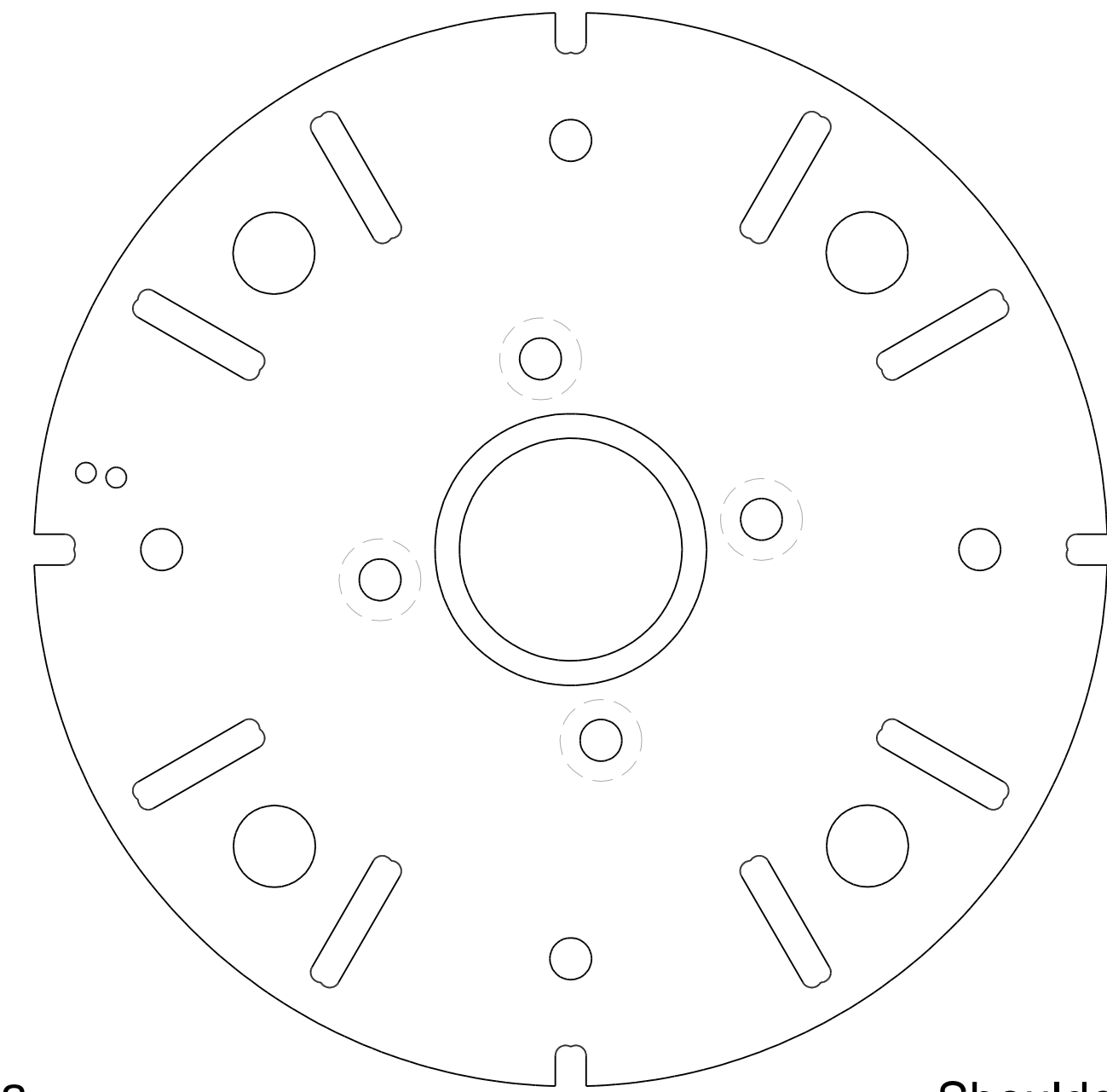
Utility Arm Box with Servos

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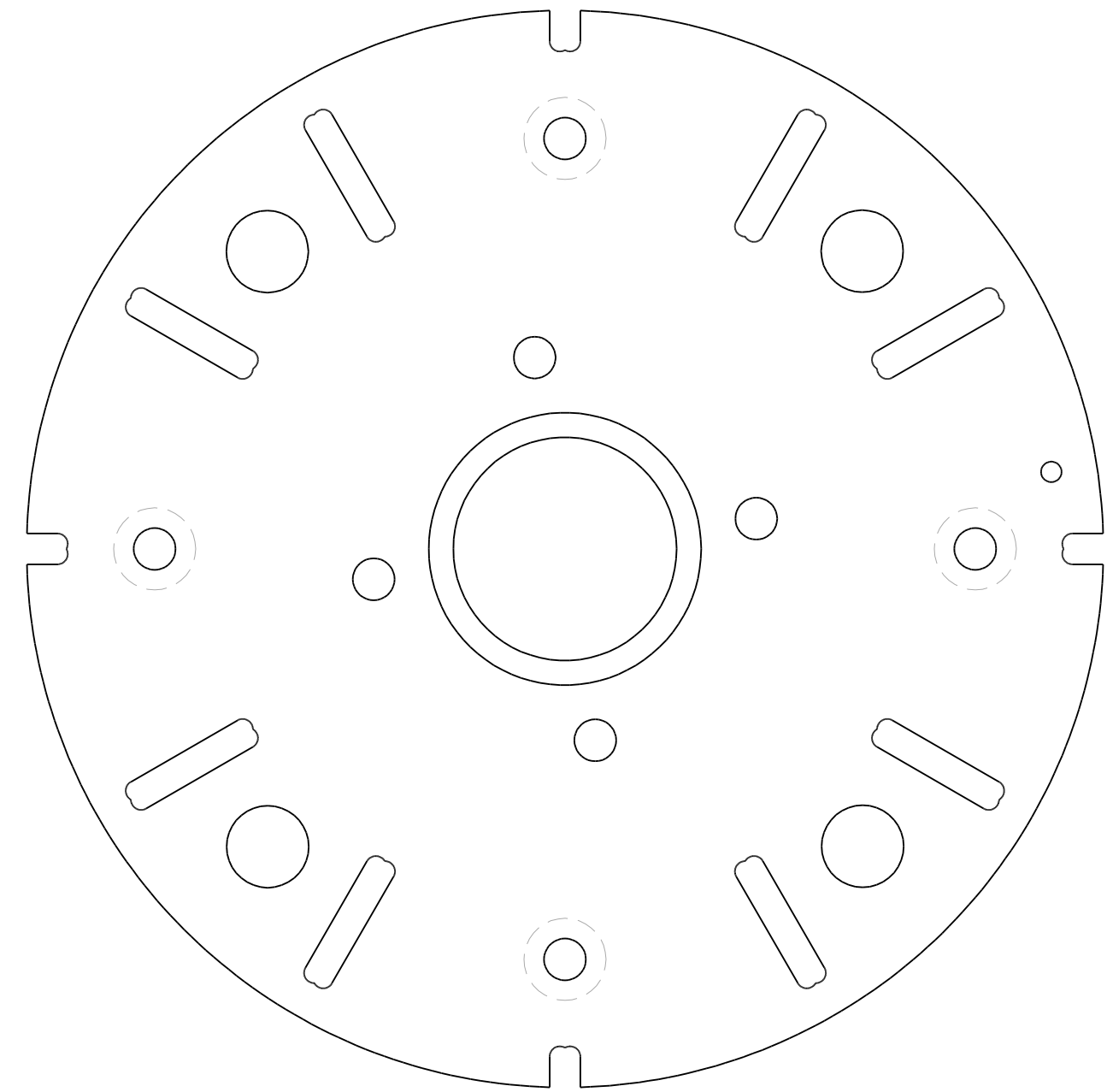
DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET



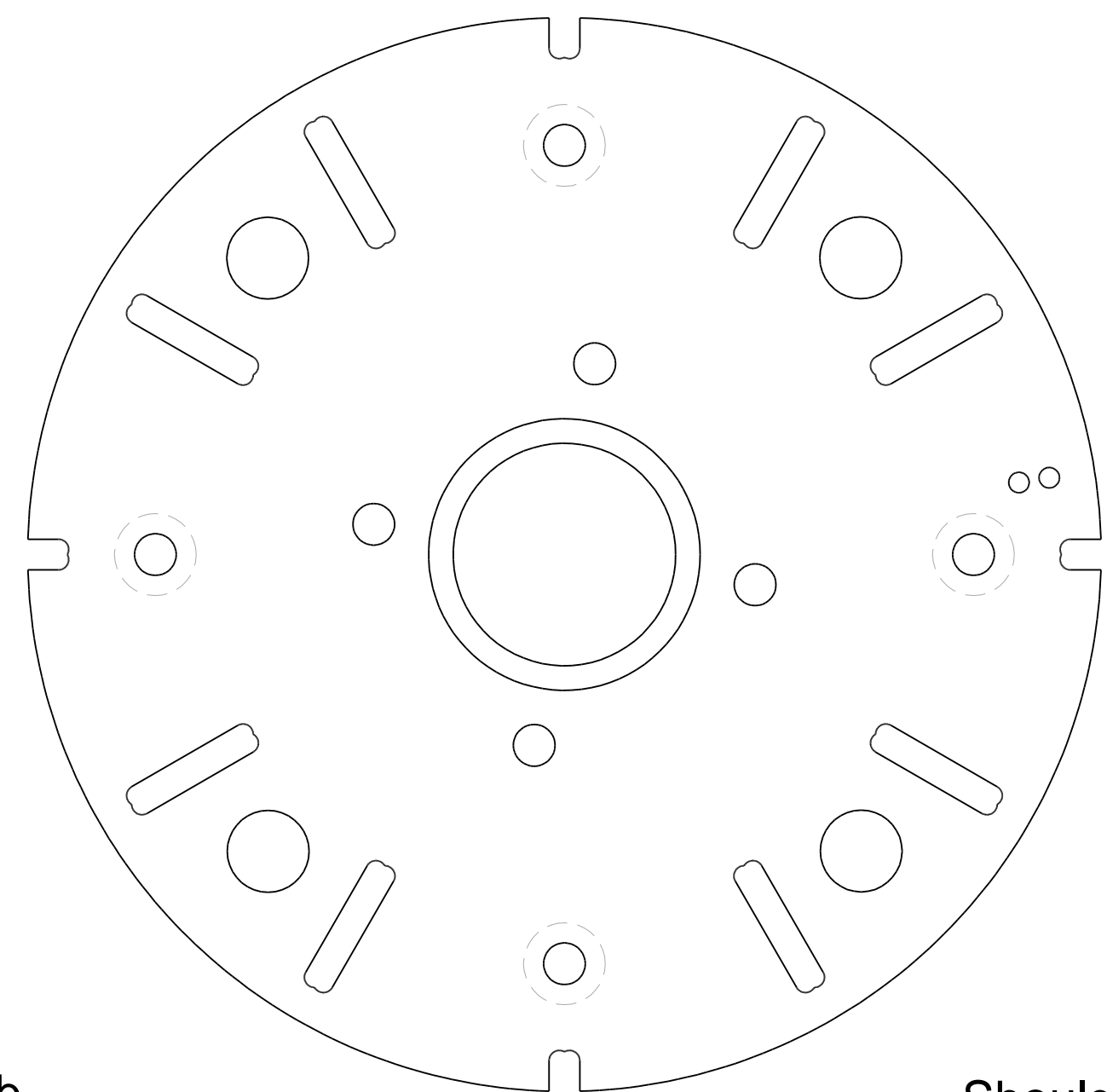
Shoulder Plate 1a
make 1 - .1875



Shoulder Plate 2a
make 1 - .1875



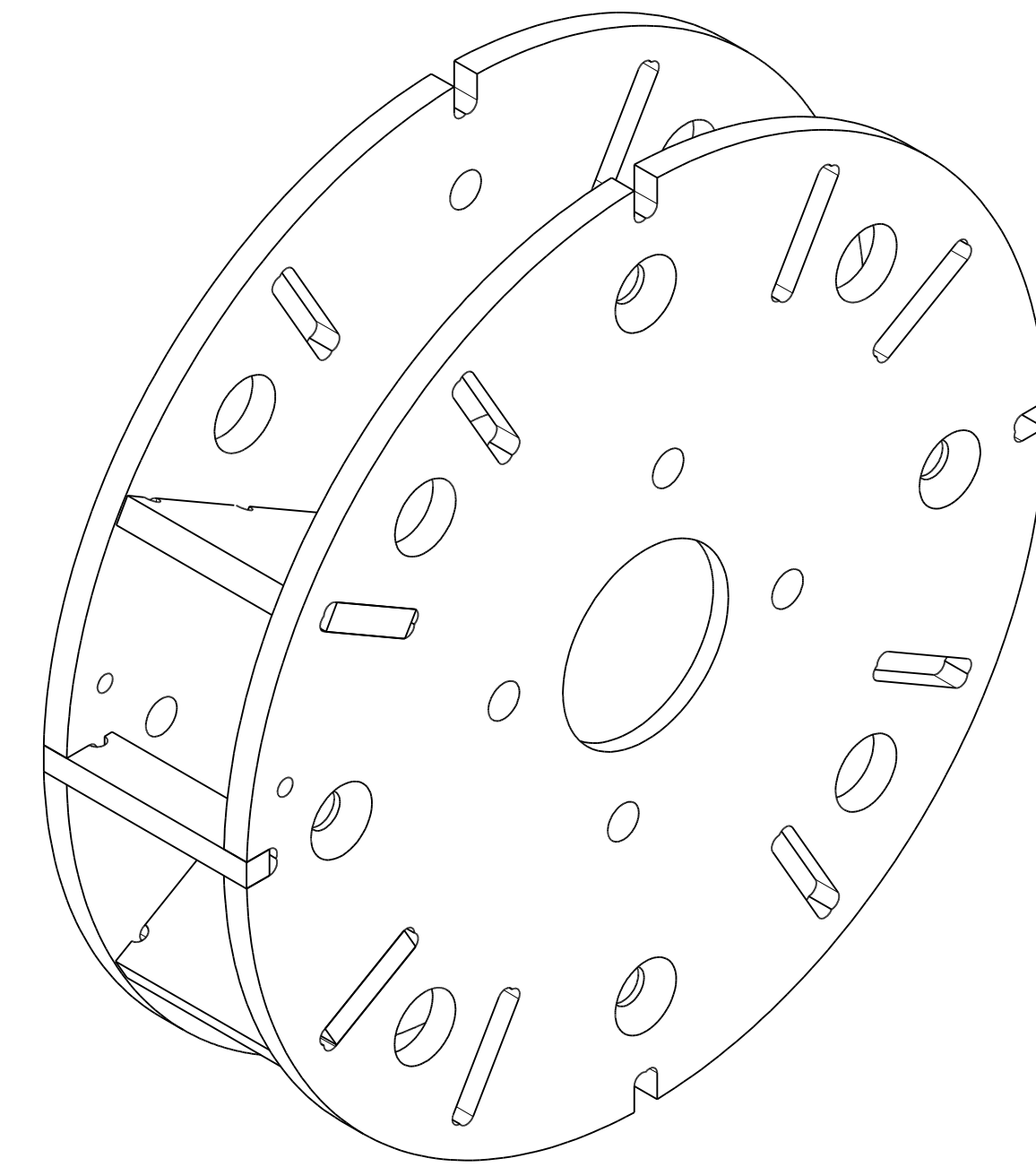
Shoulder Plate 1b
make 1 - .1875



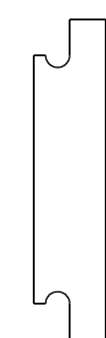
Shoulder Plate 2b
make 1 - .1875

All Shoulder Plates:
.0625 pocket around center hole
1/4-20 countersink far side

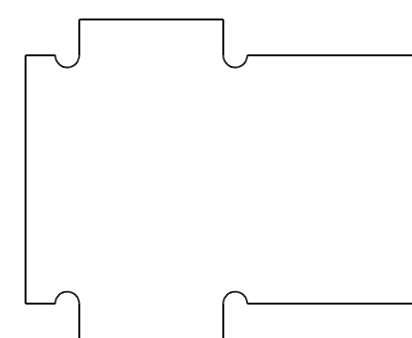
Not Shown - .040 single layer wrap to cover outside of Hub



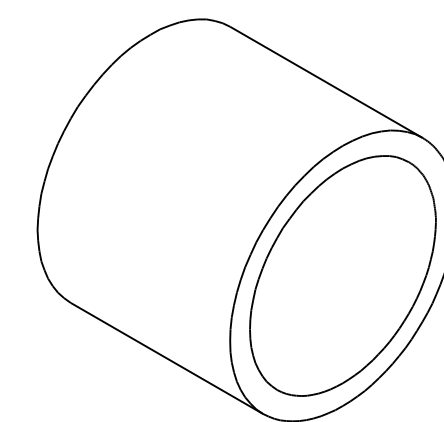
CS:R NextGen Shoulder Hub
See assembly instructions
May be used as either:
CS:L 3-leg fixed hub using 1/4-20 bolts
CS:R shoulder hub using 1/2 in bolts



Riser Filler
Make 8 - .1875



Riser
Make 16 - .1875



1 1/4 in Sch 40 PVC Pipe
cut to 1.42 in long
Make 2

CS:R NextGen Shoulder Hub

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DRAWN	DATE				
CHECKED	QA				
MFG	APPROVED	SIZE C	FSCM NO.	DWG NO.	REV
SCALE				SHEET	