

RSS Overhaul Status

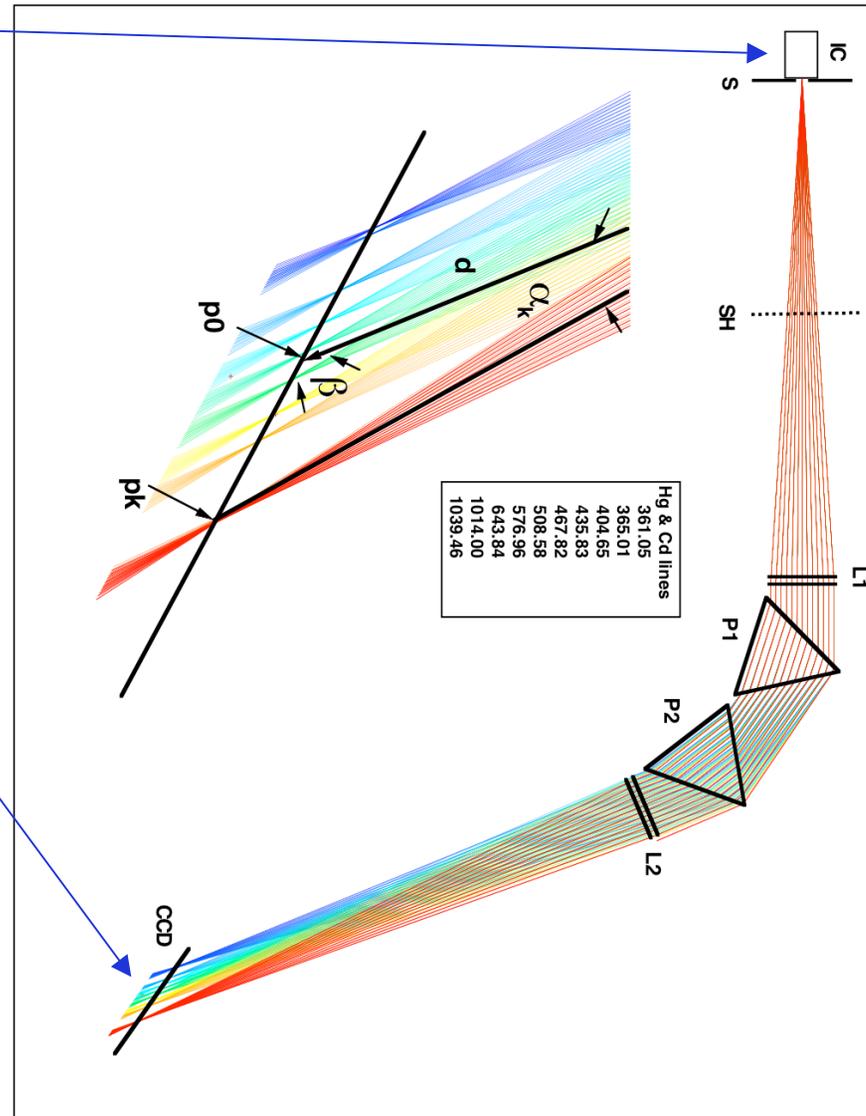
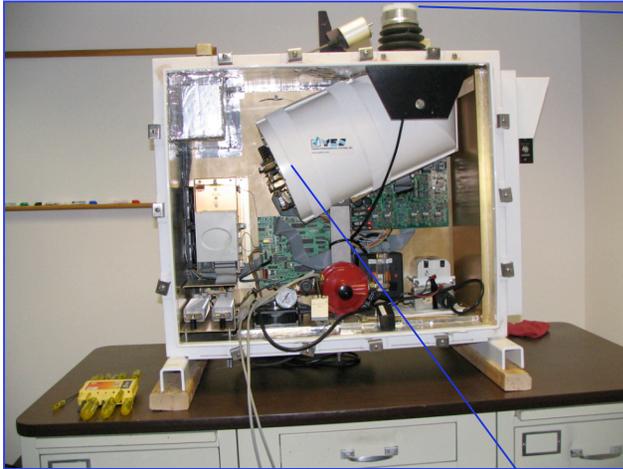
March 23, 2009

P. Kiedron and J. Berndt

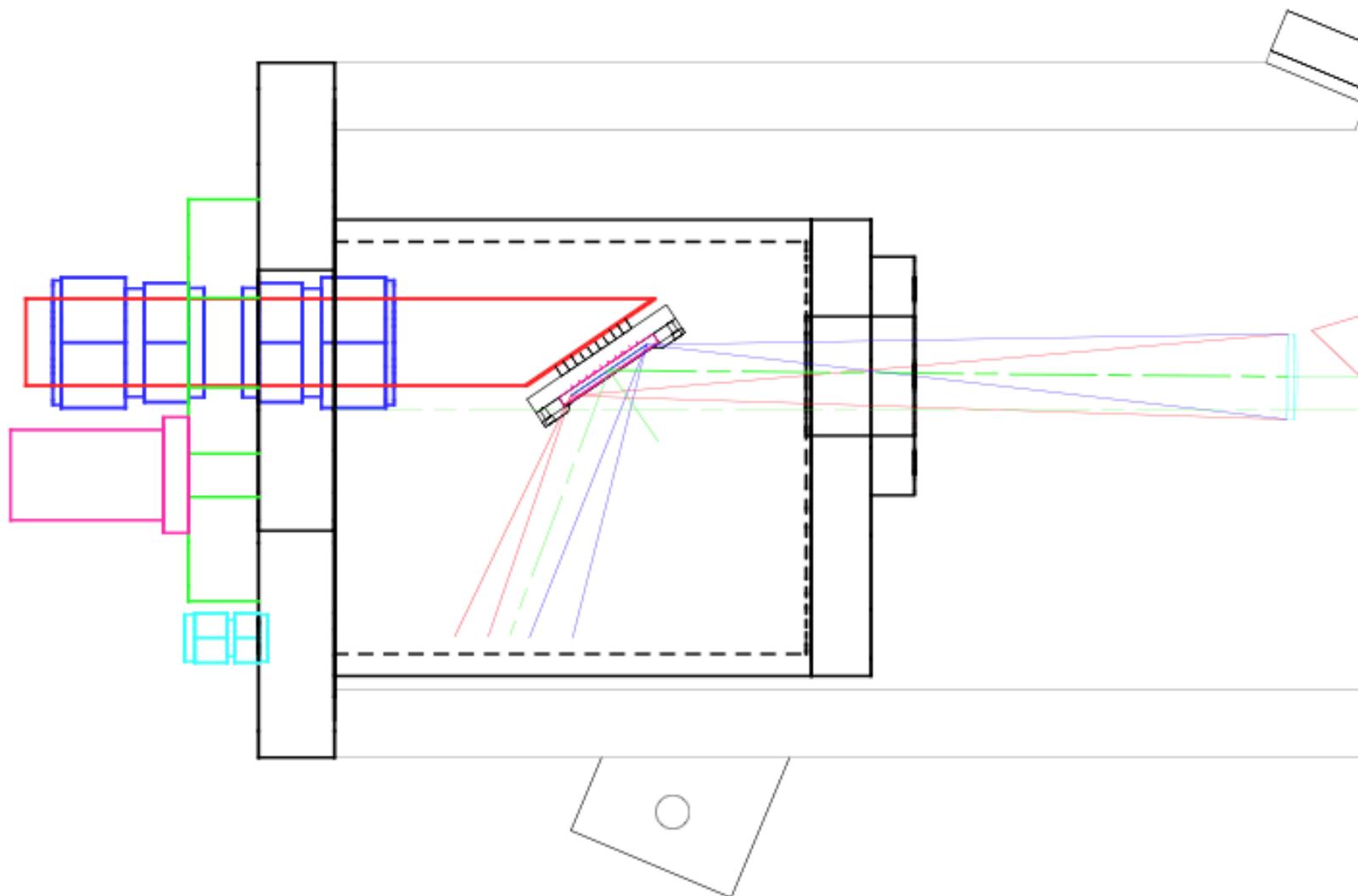
RSS at NOAA



RSS Optical Layout



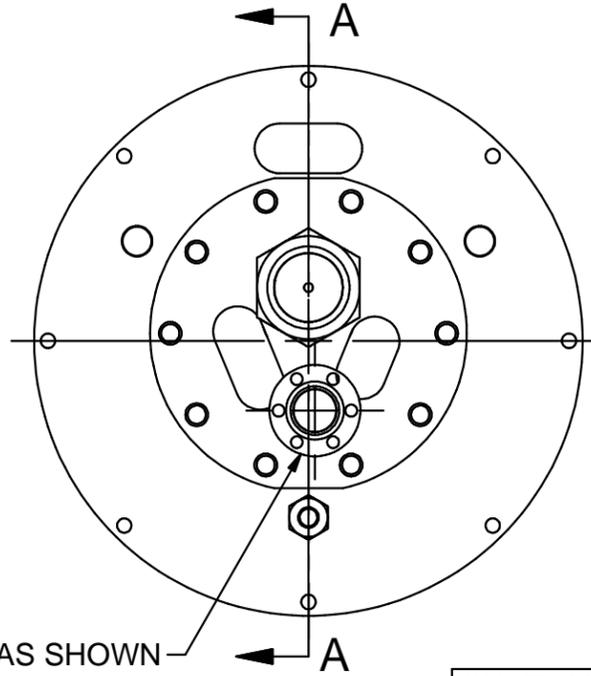
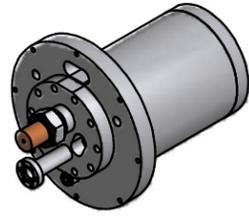
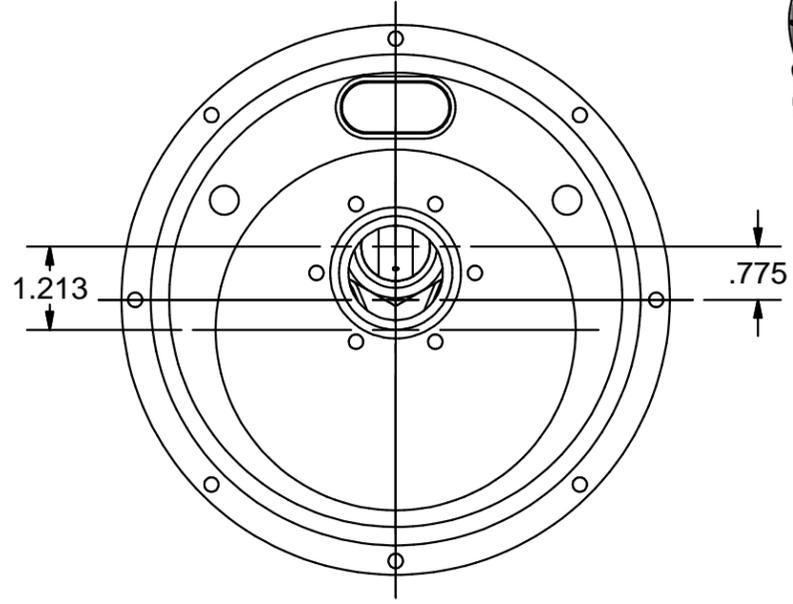
New design: CCD chamber



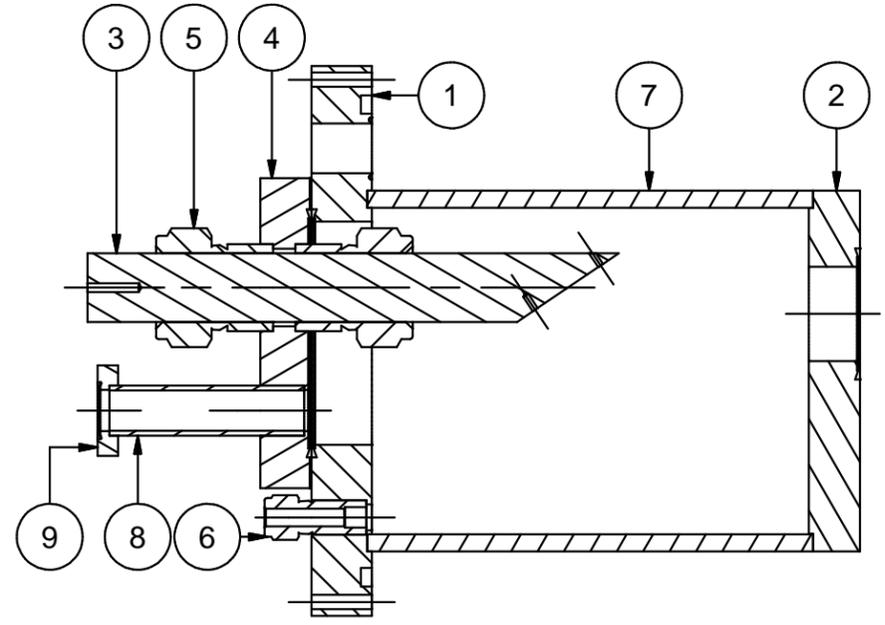
- Vacuum chamber CAD design completed
- Vacuum chamber manufacturing by A&N Corp. to be completed in 3rd week of April
- Vacuum fused-silica window flange purchased
- New CCD purchased
- New CCD holder design in progress
- Vacuum gauge on order

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WELD NOTE: ALL WELDS WILL BE ACCORDING TO STANDARD VACUUM PRACTICE

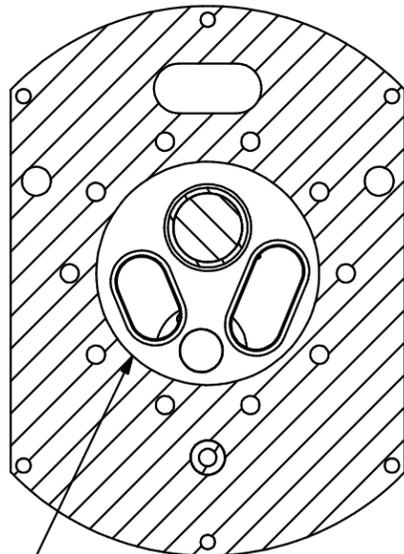
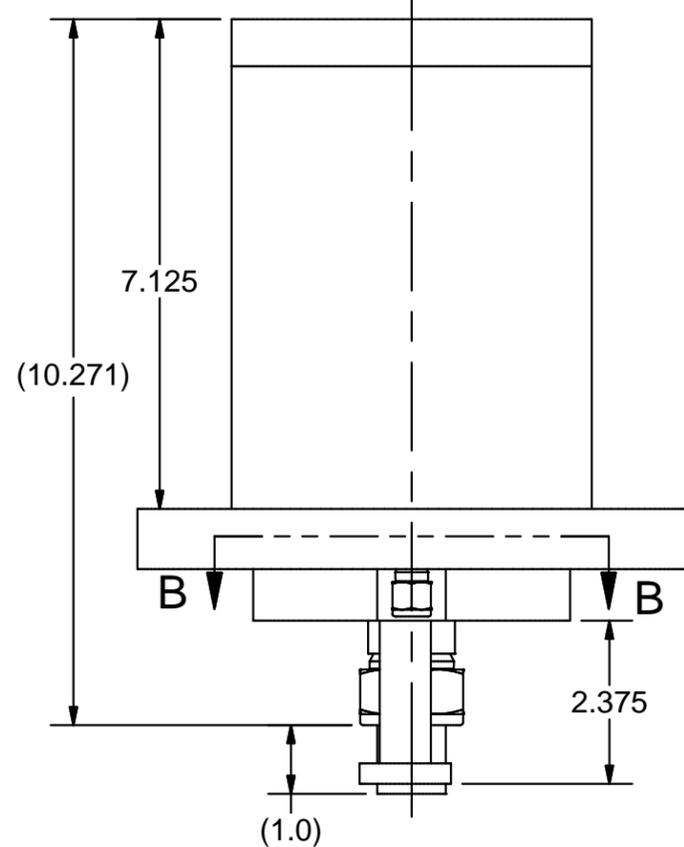


WELD AS SHOWN



SECTION A-A

CUSTOMER SIGNATURE REQUIRED
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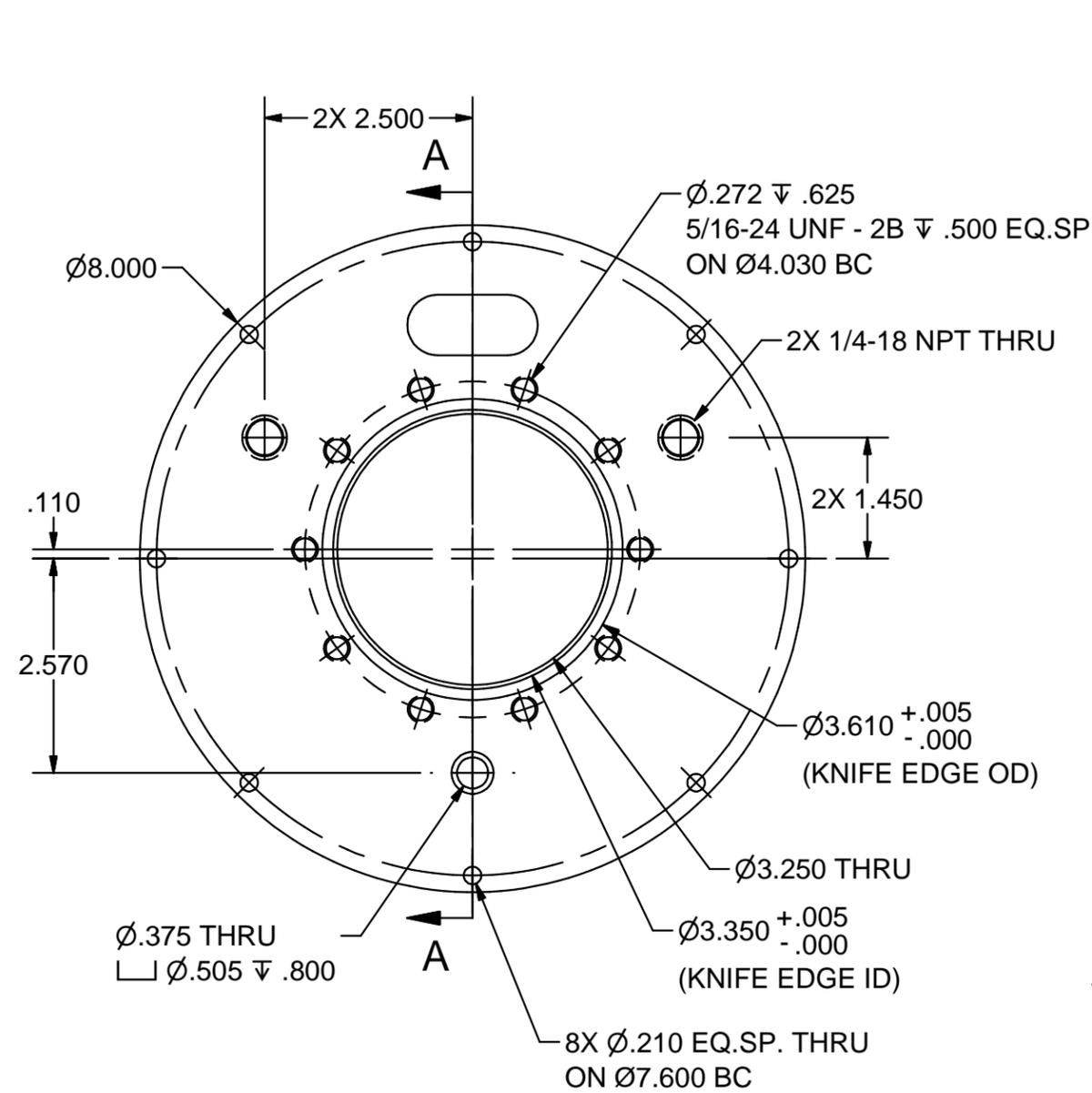
SECTION B-B

THIS CONFIGURATION ALLOWS FOR ALL GEOMETRY TO FIT WITHOUT INTERFERENCE.

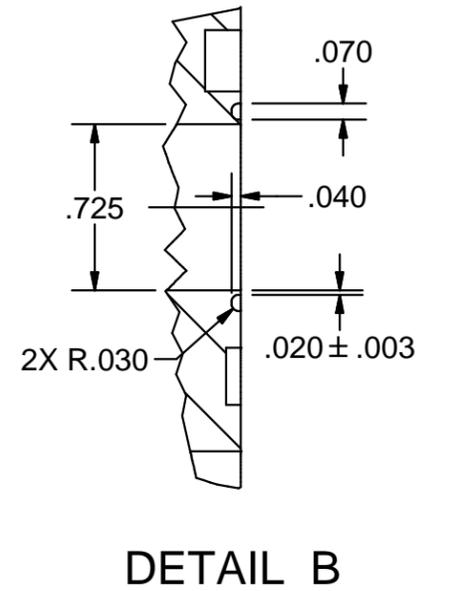
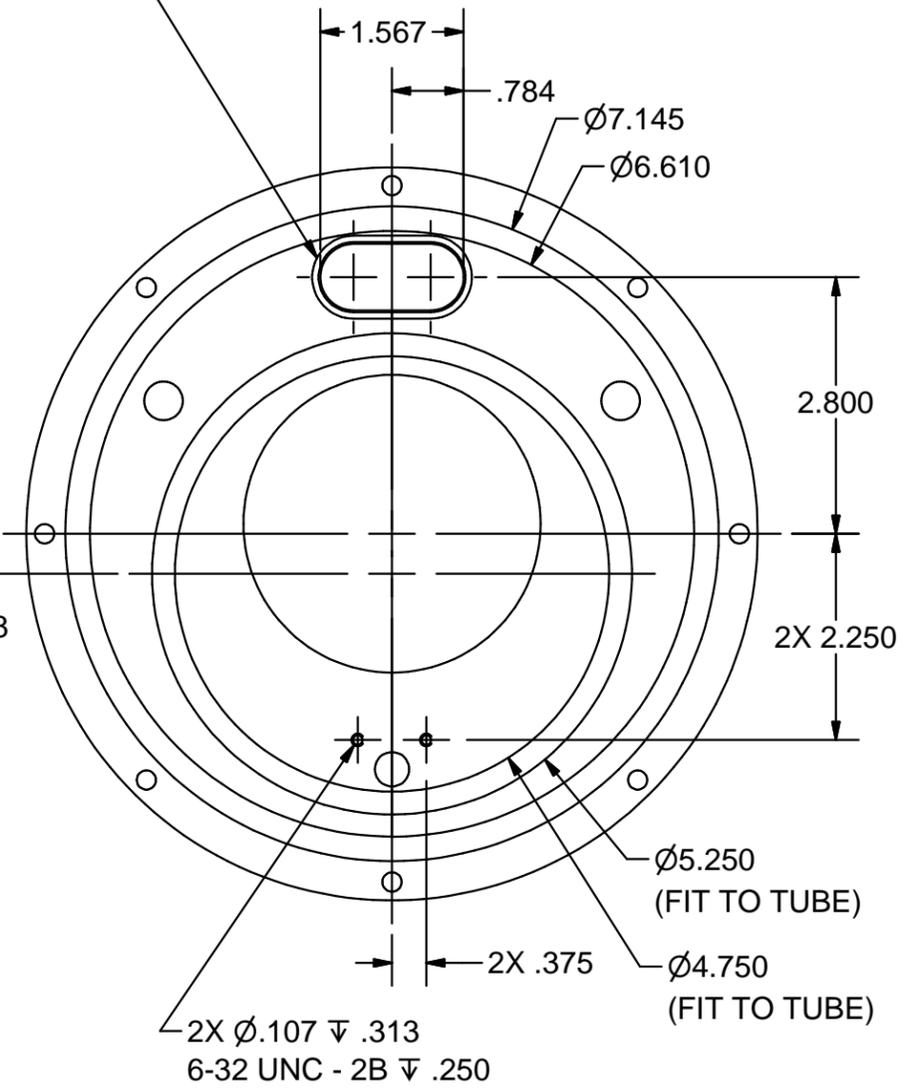
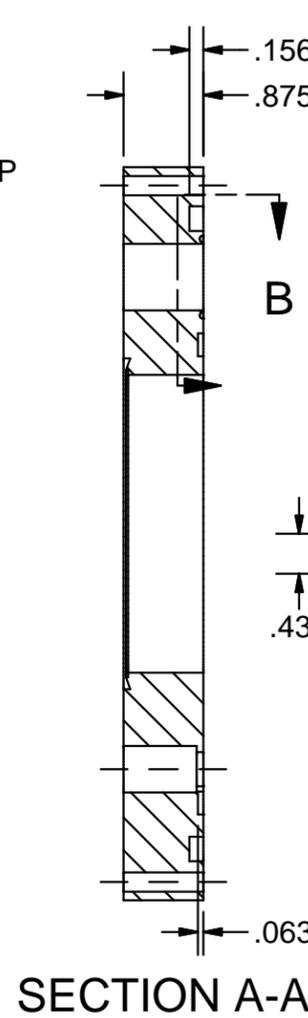
Parts List					
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	SHEET
1	1	9000197_1	MAIN FLANGE	304L Stainless Steel	2
2	1	9000197_2	TOP FLANGE	304L Stainless Steel	3
3	1	9000197_3	HOT FINGER	Copper	4
4	1	9000197_4	CCD FLANGE	304L Stainless Steel	5
5	2	9000197_5	SS-1610-1-16W	316L Stainless Steel	6
6	1	9000197_6	MODIFIED SS-400-1-4W	316L Stainless Steel	7
7	1	9000197_7	Ø5.25 X .25W X 6.50" OAL PIPE	304L Stainless Steel	N/A
8	1	0100125	Ø0.75 X .065W X 2.839" OAL TUBE	304L Stainless Steel	N/A
9	1	5000006	133-075	304L Stainless Steel	N/A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015 TOLERANCES: .X ±.025 .XX ±.010 .XXX ±.005 ANGLES ±.5 DEG FINISH: 32 µin. MAX, UOS DO NOT SCALE DRAWING, USE DIMENSIONS ONLY	APPROVALS		DATE	A&N CORPORATION WILLISTON, FLORIDA (800)FLANGE1 WWW.ANCORP.COM		
	DRAWN	RJM	2/17/2009			
	CHECKED	N/A	N/A	90110 NOAA CHAMBER ASSEMBLY RSS CHAMBER FOR NOAA		
	MATERIAL					
FINISH MACHINE POLISH FLANGES/ GLASS BEAD BLAST TUBE			SIZE	DRAWING FILE	DRAWING NO.	REV.
THIRD ANGLE PROJECTION			B	9000197a.idw	9000197	N/A
			SCALE	NTS	INVENTOR 2009	SHEET 1 OF 7

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SEE WELD PREP-DETAIL B FOR 15 PIN SUB-D



NOTE: HIDDEN LINES REMOVED FOR CLARITY PURPOSES.

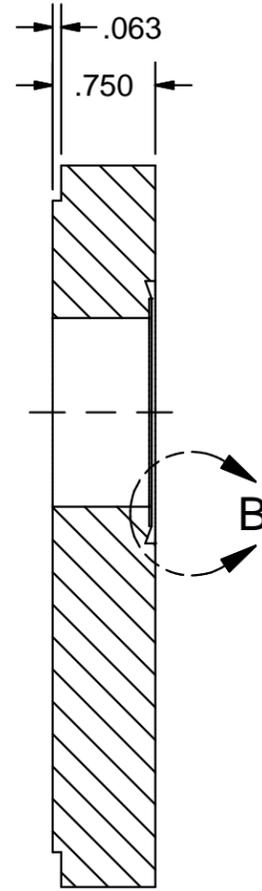
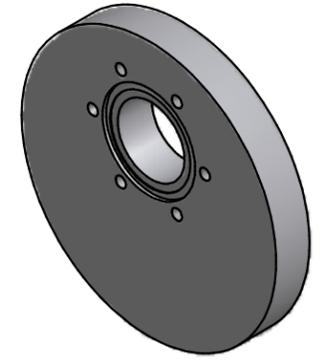
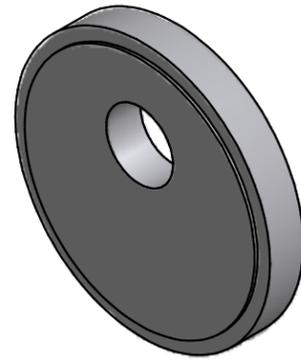
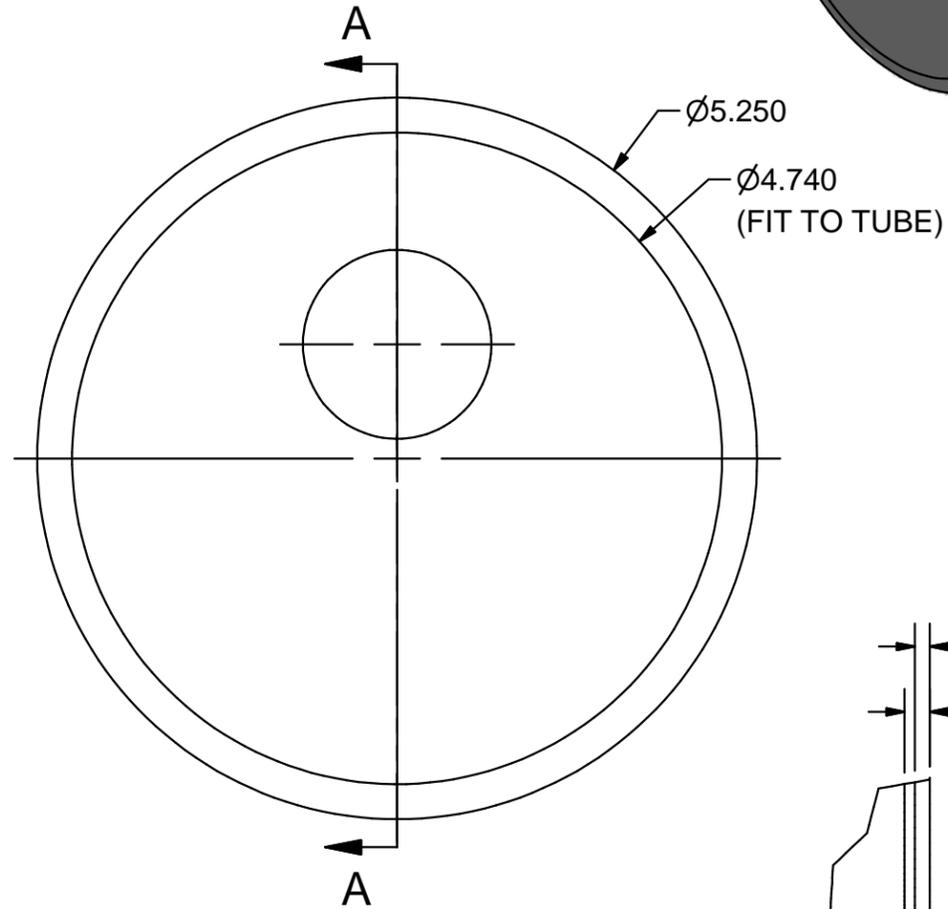
CUSTOMER SIGNATURE REQUIRED

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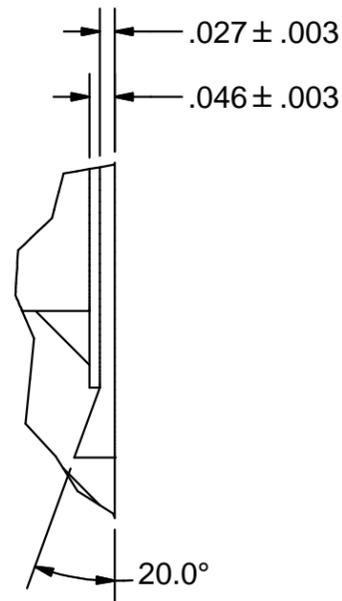
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		APPROVALS		DATE		A&N CORPORATION			
UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015		DRAWN RJM		2/17/2009		WILLISTON, FLORIDA (800)FLANGE1 WWW.ANCORP.COM			
TOLERANCES: .X \pm .025 .XX \pm .010 .XXX \pm .005 ANGLES \pm 5 DEG		CHECKED CUST		CUST		MAIN FLANGE			
FINISH: 32 μ in. MAX, UOS		MATERIAL		304L Stainless Steel		NOAA RSS MAIN FLANGE			
DO NOT SCALE DRAWING, USE DIMENSIONS ONLY		FINISH		MACHINE POLISHED		SIZE	DRAWING FILE	DRAWING NO.	REV.
		THIRD ANGLE PROJECTION				B	9000197a.idw	9000197_1	A
						SCALE	INVENTOR 2009	SHEET	2 OF 7

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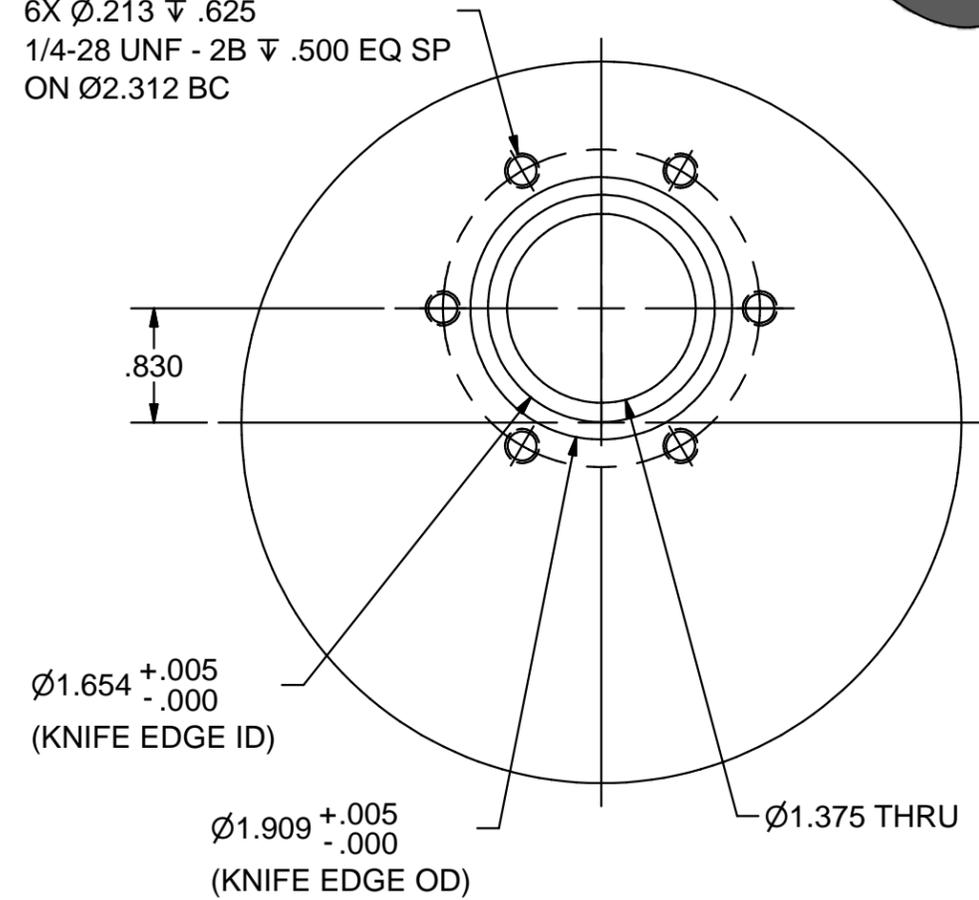


SECTION A-A



DETAIL B

6X Ø.213 ∇ .625
 1/4-28 UNF - 2B ∇ .500 EQ SP
 ON Ø2.312 BC



NOTE: HIDDEN LINES REMOVED FOR CLARITY PURPOSES.

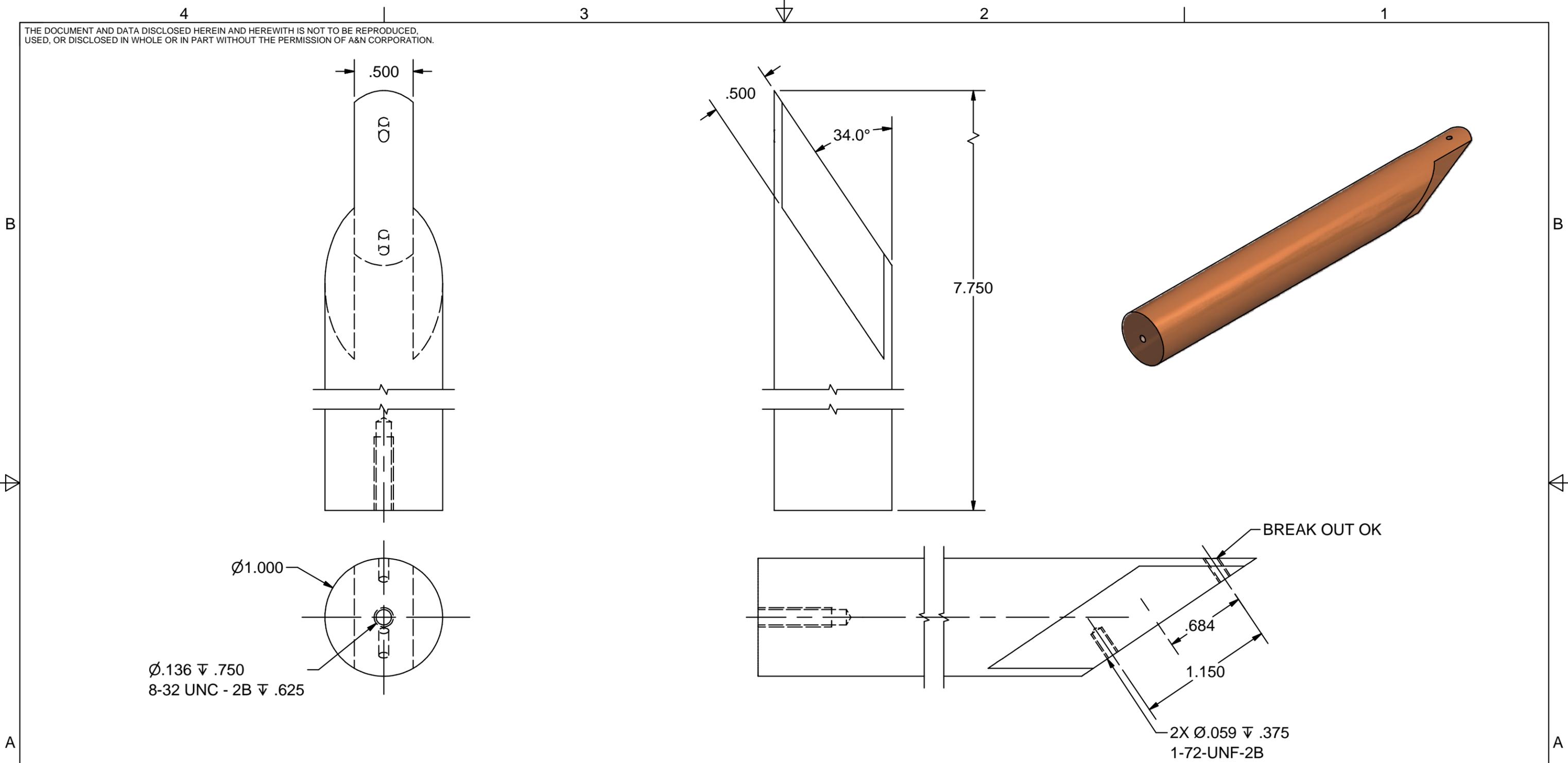
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		APPROVALS		DATE		A&N CORPORATION WILLISTON, FLORIDA (800)FLANGE1 WWW.ANCORP.COM			
UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015		DRAWN RJM		2/17/2009		TOP FLANGE NOAA RSS TOP FLANGE			
TOLERANCES: .X ±.025 .XX ±.010 .XXX ±.005 ANGLES ±.5 DEG		CHECKED CUST		CUST					
FINISH: 32 µin. MAX, UOS		MATERIAL 304L Stainless Steel		FINISH MACHINE POLISHED		SIZE B	DRAWING FILE 9000197a.idw	DRAWING NO. 9000197_2	REV. A
DO NOT SCALE DRAWING, USE DIMENSIONS ONLY		THIRD ANGLE PROJECTION		SCALE NTS		INVENTOR 2009		SHEET 3 OF 7	

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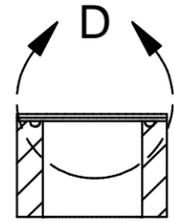


Ø1.000
 Ø.136 ∇ .750
 8-32 UNC - 2B ∇ .625

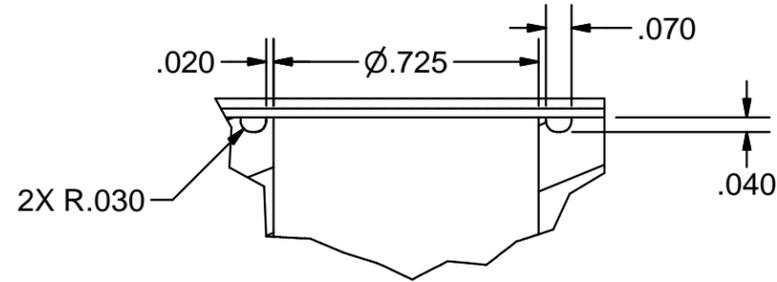
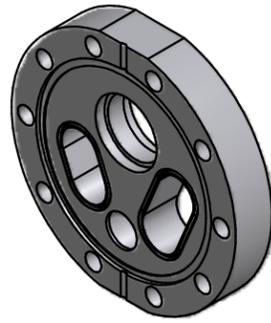
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UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015		DRAWN RJM		2/17/2009		HOT FINGER NOAA RSS HOT FINGER		
TOLERANCES: .X \pm .025 .XX \pm .010 .XXX \pm .005 ANGLES \pm .5 DEG		CHECKED CUST		CUST				
FINISH: 32 μ m. MAX, UOS		MATERIAL Copper		FINISH MACHINE POLISHED				
DO NOT SCALE DRAWING, USE DIMENSIONS ONLY		THIRD ANGLE PROJECTION		SIZE B	DRAWING FILE 9000197a.idw	DRAWING NO. 9000197_3	REV. A	
				SCALE NTS	INVENTOR 2009	SHEET 4	OF 7	

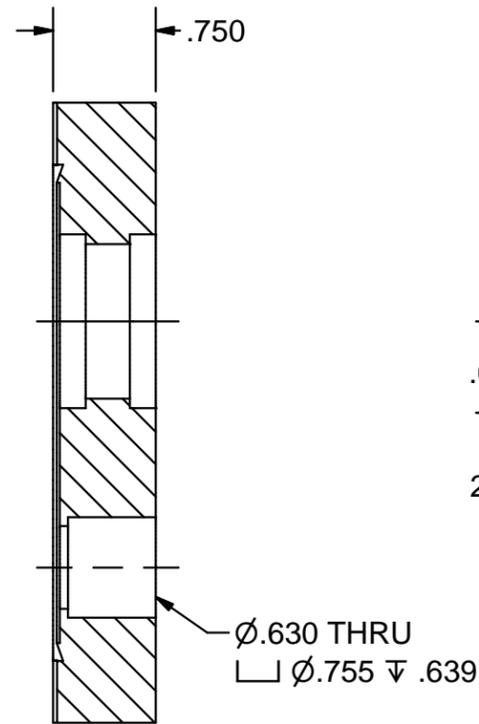
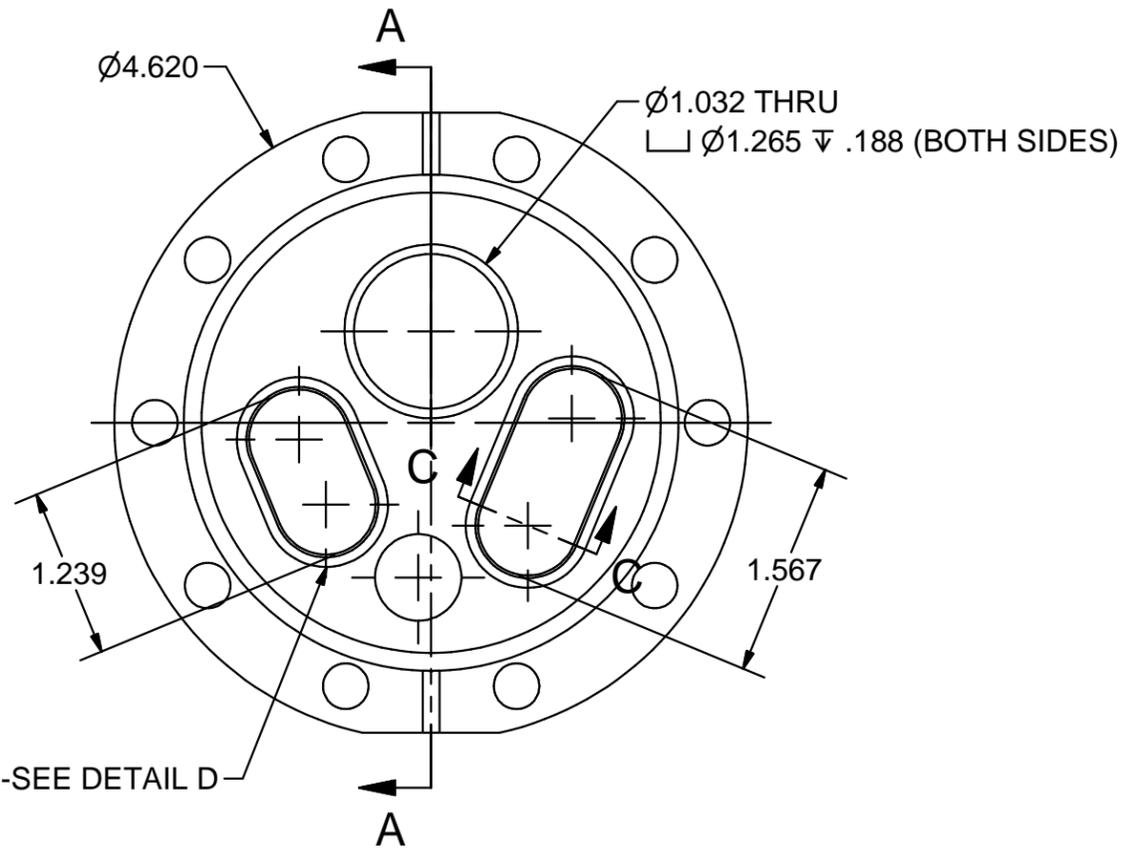
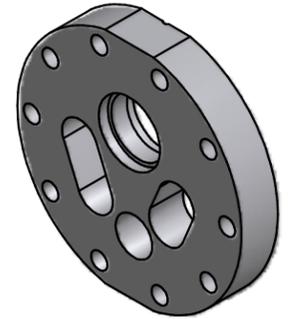
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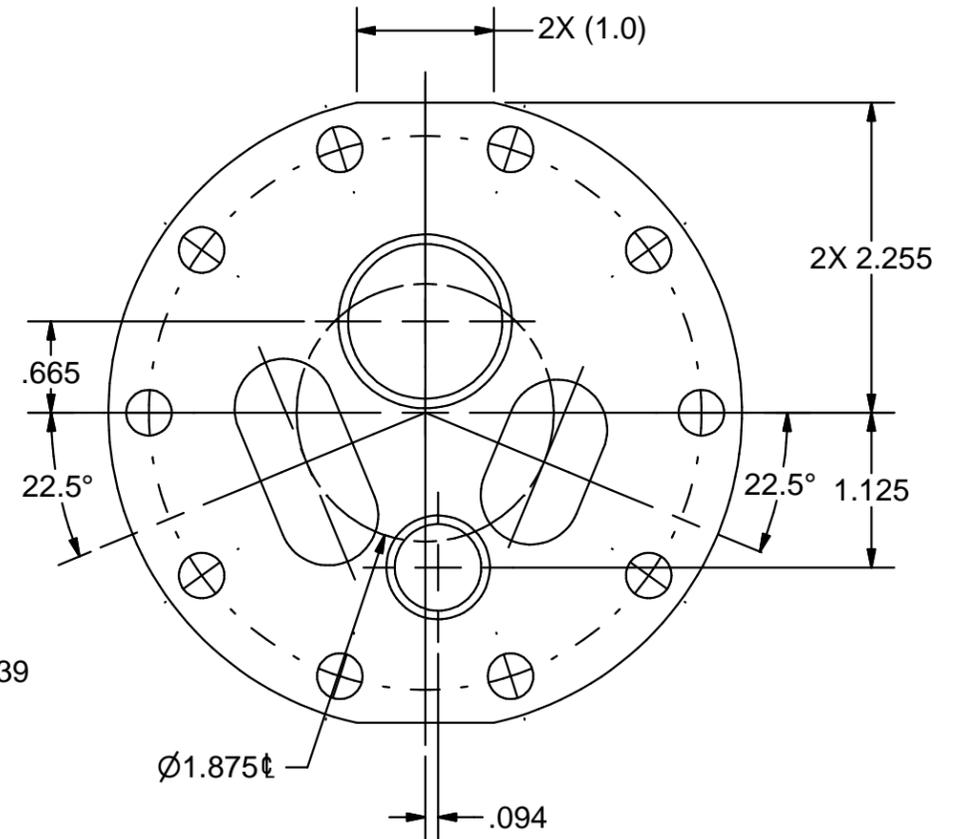
SECTION C-C



DETAIL D



SECTION A-A



NOTE: HIDDEN LINES REMOVED FOR CLARITY PURPOSES.

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES

UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015

TOLERANCES:
.X ±.025
.XX ±.010
.XXX ±.005
ANGLES ±.5 DEG

FINISH: 32 µin. MAX, UOS

DO NOT SCALE DRAWING, USE DIMENSIONS ONLY

APPROVALS

DATE

DRAWN

RJM

2/17/2009

CHECKED

CUST

CUST

MATERIAL

5000116

FINISH

MACHINE POLISHED



THIRD ANGLE PROJECTION

A&N CORPORATION

WILLISTON, FLORIDA (800)FLANGE1
WWW.ANCORP.COM

CCD FLANGE
NOAA RSS CCD FLANGE

SIZE

DRAWING FILE

B

9000197a.idw

DRAWING NO.

9000197_4

REV.

A

SCALE

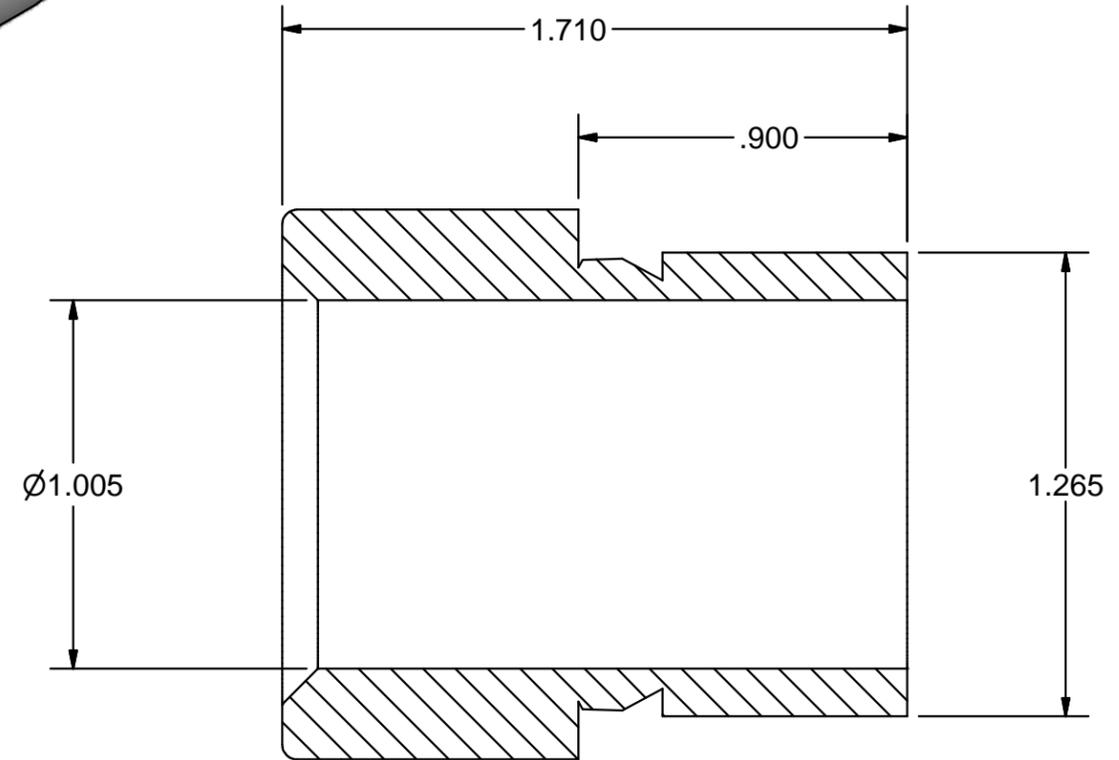
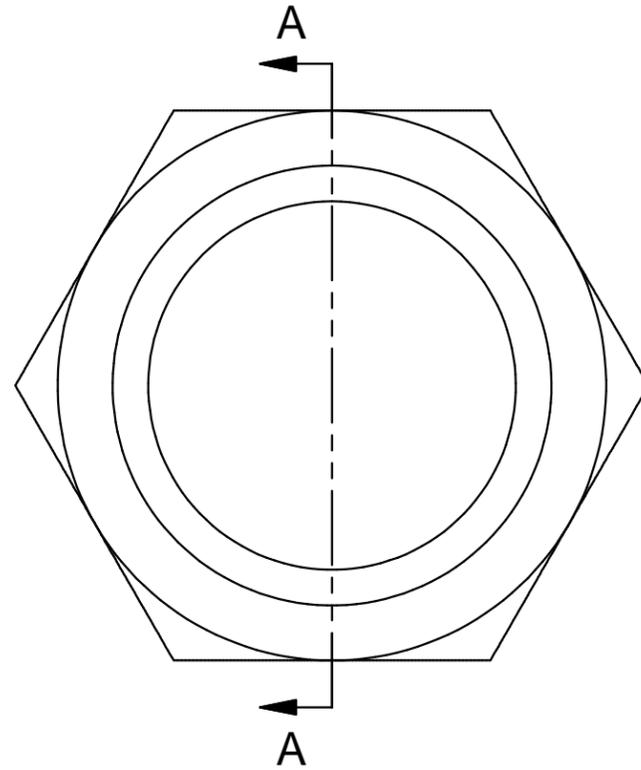
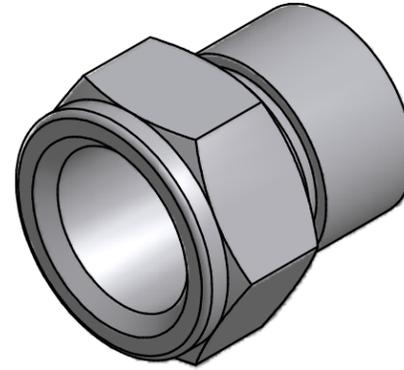
NTS

INVENTOR 2009

SHEET

5 OF 7

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SECTION A-A

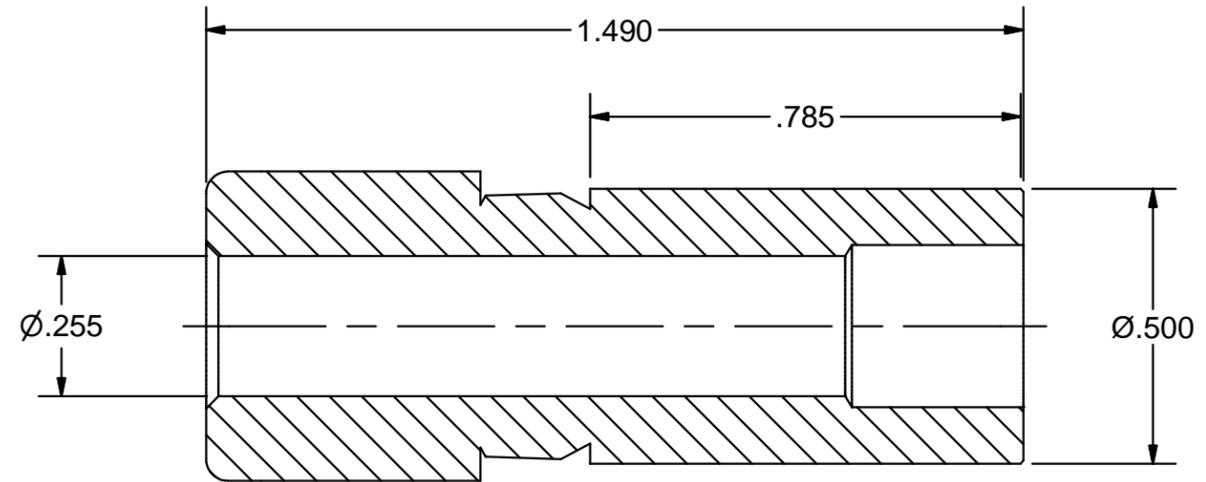
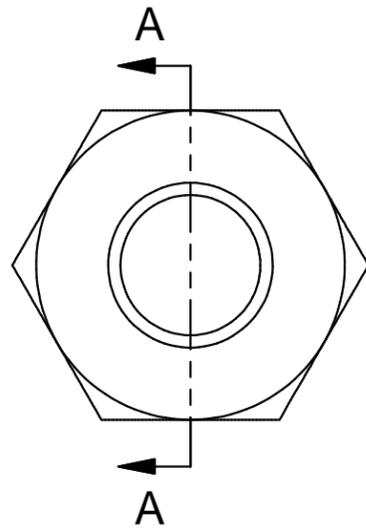
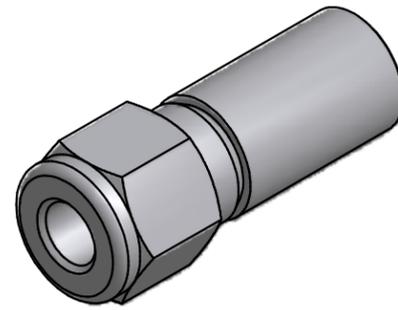
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		APPROVALS		DATE		A&N CORPORATION WILLISTON, FLORIDA (800)FLANGE1 WWW.ANCORP.COM			
UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015		DRAWN RJM		2/17/2009		MODIFIED SS-1610-1-16BT MODIFIED SWAGelok			
TOLERANCES: .X ±.025 .XX ±.010 .XXX ±.005 ANGLES ±.5 DEG		CHECKED CUST		CUST					
FINISH: 32 µin. MAX, UOS		MATERIAL		0502090		SIZE	DRAWING FILE	DRAWING NO.	REV.
DO NOT SCALE DRAWING, USE DIMENSIONS ONLY		FINISH		MILL		B	9000197a.idw	9000197_5	A
		THIRD ANGLE PROJECTION				SCALE	NTS	INVENTOR 2009	SHEET 6 OF 7

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SECTION A-A

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UNLESS OTHERWISE SPECIFIED, BREAK ALL EDGES .015 X .015		DRAWN RJM		2/17/2009		WILLISTON, FLORIDA (800)FLANGE1 WWW.ANCORP.COM			
TOLERANCES: .X ±.025 .XX ±.010 .XXX ±.005 ANGLES ±.5 DEG		CHECKED CUST		CUST		MODIFIED SS-400-1-4BT MODIFIED SWAGelok			
FINISH: 32 µin. MAX, UOS		MATERIAL		316L Stainless Steel		SIZE	DRAWING FILE	DRAWING NO.	REV.
DO NOT SCALE DRAWING, USE DIMENSIONS ONLY		FINISH		MILL		B	9000197a.idw	9000197_6	A
		THIRD ANGLE PROJECTION		SCALE		NTS	INVENTOR 2009	SHEET 7 OF 7	