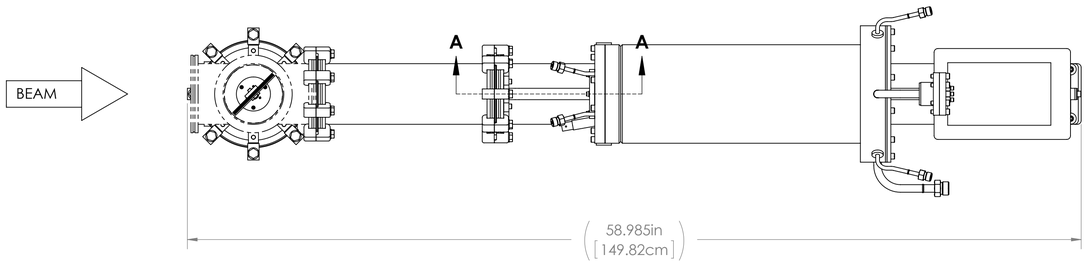
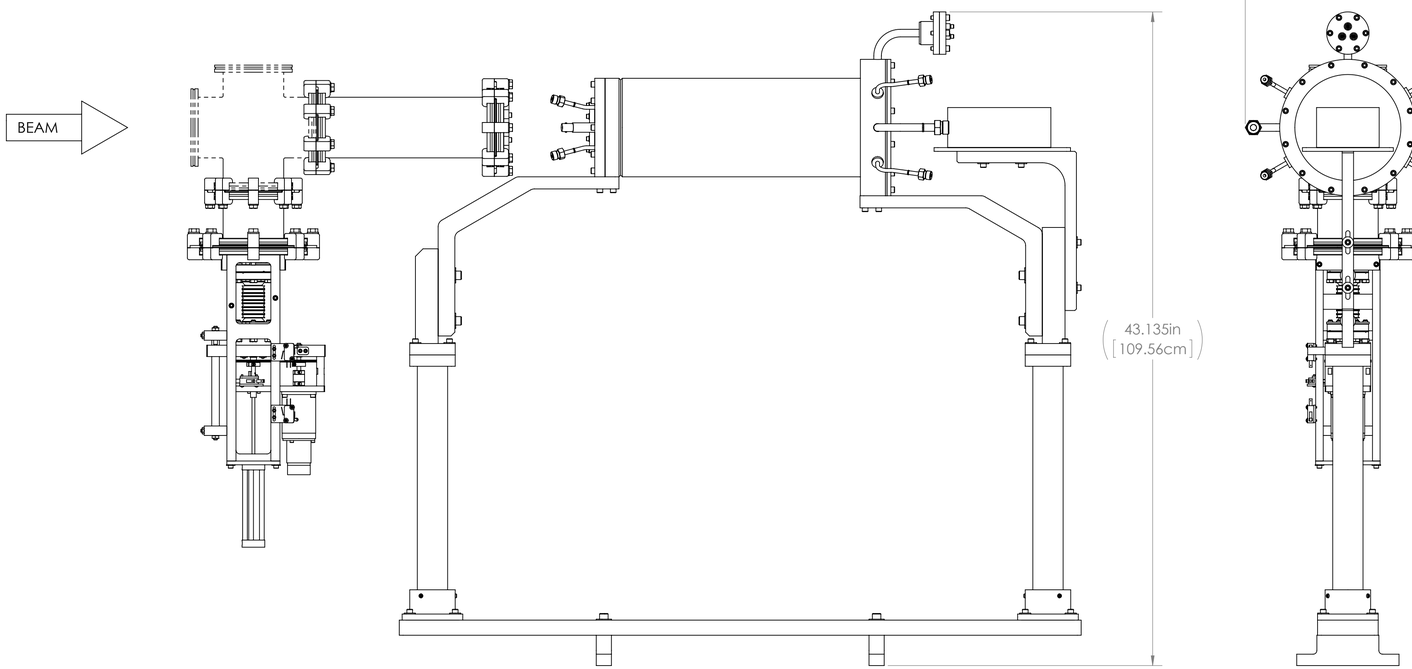
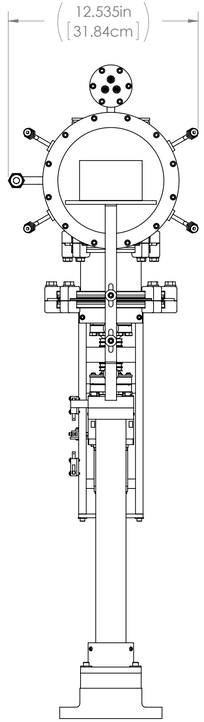
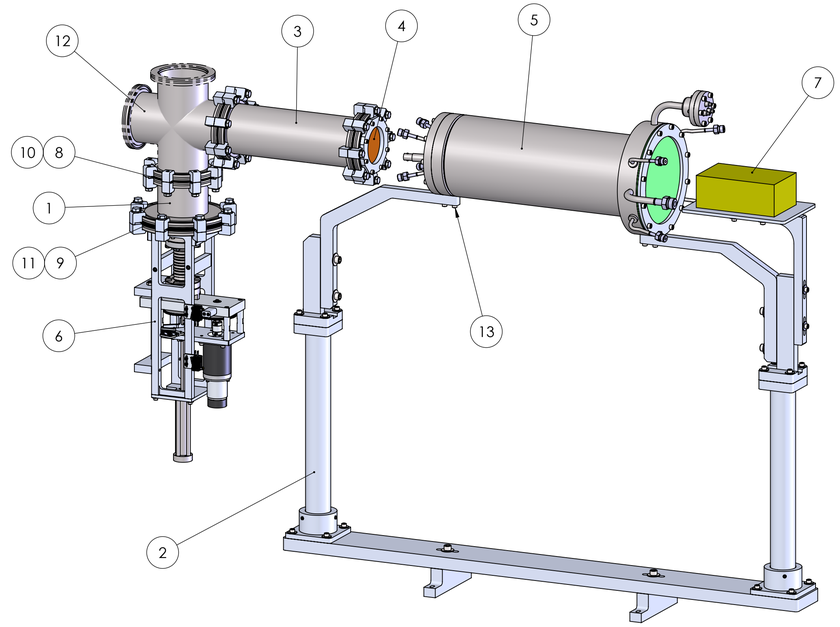
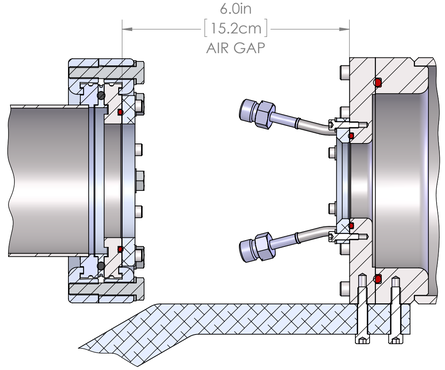
REVISIONS				
REV.	DESCRIPTION	MD WO #	DATE	BY
1	RELEASE OF N3010217-MDE-0002-0000	W04047-002	10-MAY-2016	PMG
2	RELEASE OF N3010217-MDE-0003-0000	W04047-002	11-MAY-2016	PMG
3	RELEASED	W04047-002	12-MAY-2016	PMG











SECTION A-A
SCALE 1 : 2

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	N3010217-MDE-0001-0005	Custom ISO LF Flange Nipple Reducer	WELDMENT	1
2	N3010217-MDE-0001-0006	Proton Detector Support	ASSEMBLY	1
3	N3010217-MDE-0001-0007	Beam Tube	WELDMENT	1
4	N3010217-MDE-0001-0008	Beam Window Assembly	ASSEMBLY	1
5	N3010217-MDE-0002-0000	Proton Detector	ASSEMBLY	1
6	N3010217-MDE-0003-0000	Beam Degrader	ASSEMBLY	1
7	N3010217-MDE-0001_Preamplifier	Preamplifier	Mesytec # MPR-16-L	1
8	MDC-810001	Centering Ring Assembly for NW100 ISO LF Flange	aluminum & Viton	3
9	MDC_810002	ISO LF NW160 Centering Ring Assembly	aluminum & Viton	1
10	MDC-802000	Double Claw Clamp for NW63 / NW80 / NW100 ISO LF Flange	aluminum & steel	24
11	MDC_802002	Double Claw Clamp	Aluminum	8
12	MDC-825038	ISO LF Flange 4-Way Cross - NW100	AISI 304	1
13	HX-SHCS 0.25-20x1.25x1.25-N-SBO	Hex Socket Head Cap Screw - 1/4"-20 x 1 1/4" long	STEEL, BLACK OXIDE COATED-GRADE 5 MINIMUM	4

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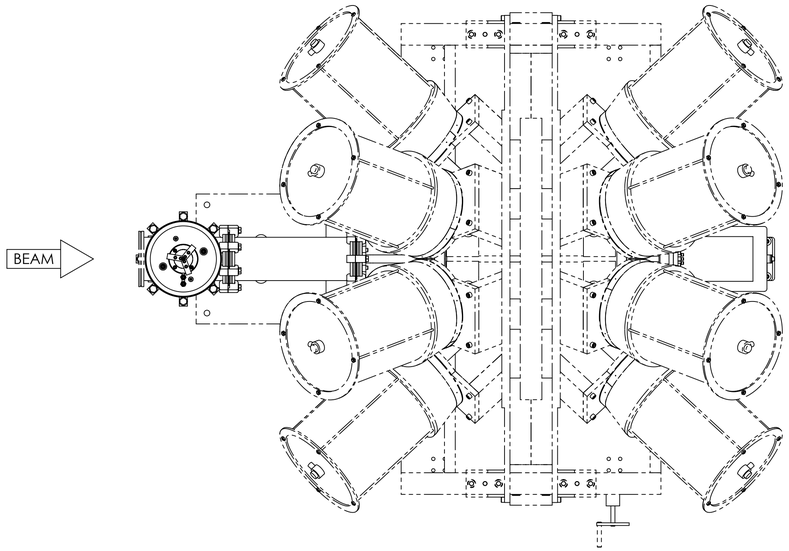
-
-
xxxxx
NEXT ASSEMBLY

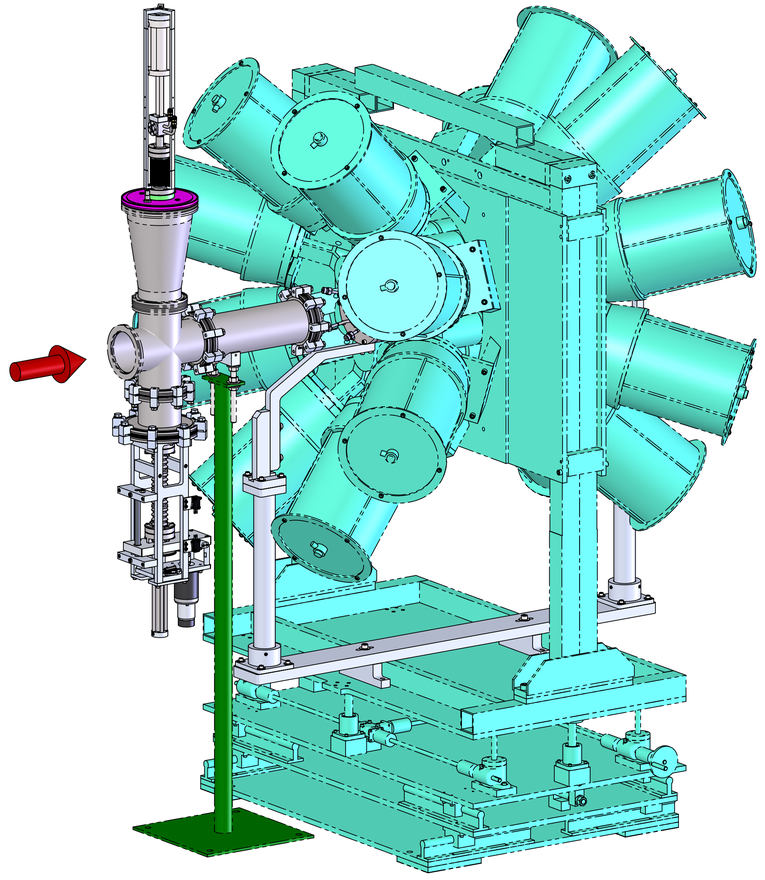
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
BREAK ALL SHARP EDGES .02 MAX.
REMOVE ALL BURRS
30 Deg. CHAMFER ENDS ALL THREADS
MACHINE SURFACE FINISH
DO NOT SCALE DRAWING

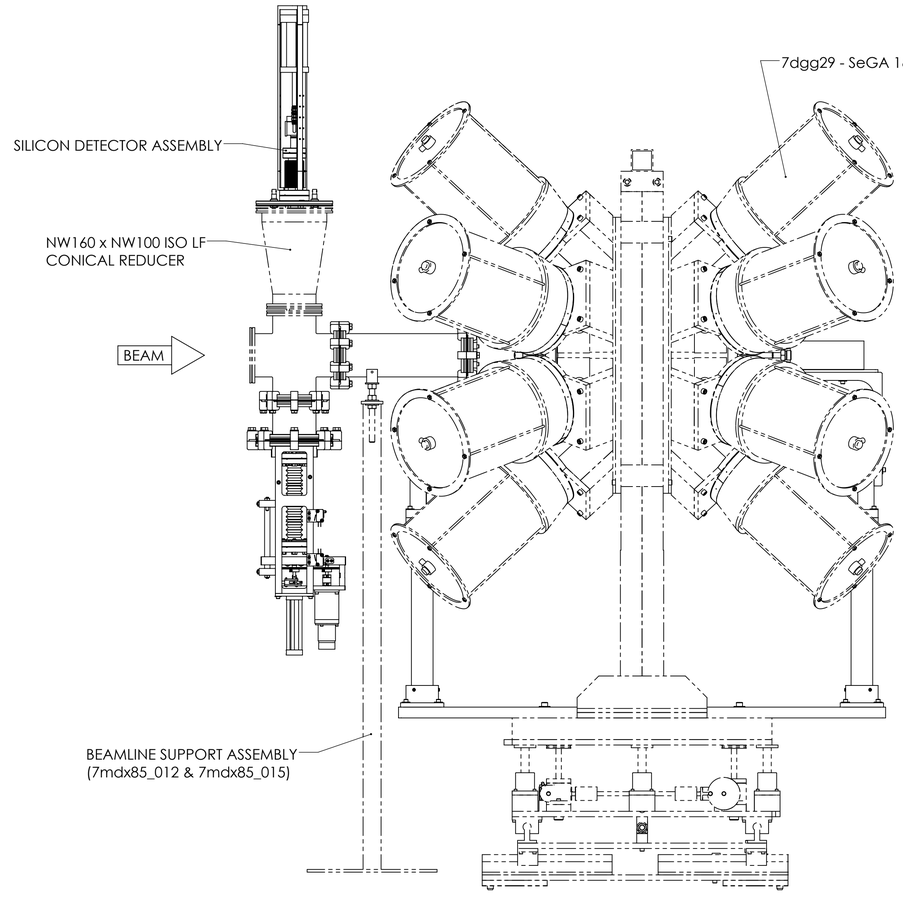
Dimension Tolerances	
1 Place Dec.	± .030
2 Place Dec.	± .010
3 Place Dec.	± .005
"Stock"	± .060
Angles	± 5°

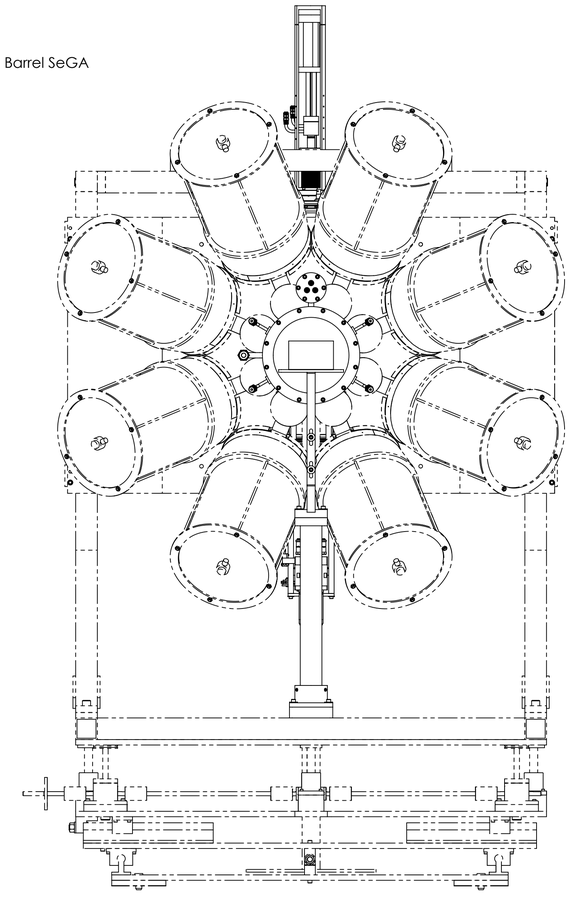
National Superconducting Cyclotron Laboratory
MICHIGAN STATE UNIVERSITY - East Lansing, Michigan

DRAWN BY	GLENNON	Project / System Reference	Proton Detector Top Assembly
DATE	MAY 2016	DESCRIPTION	Proton Detector Top Assembly
SCALE	1:5		
SIZE	D	MATERIAL	ASSEMBLY
		PART #	N3010217-MDE-0001-0000
		REV	3









-	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES .02 MAX. REMOVE ALL BURRS. 30 Deg. CHAMFER ENDS ALL THREADS. MACHINE SURFACE FINISH	National Superconducting Cyclotron Laboratory, MICHIGAN STATE UNIVERSITY - East Lansing, Michigan	
-	DO NOT SCALE DRAWING	DRAWN BY: GLENNON	Project / System Reference: Proton Detector Top Assembly
-	Dimension Tolerances: 1 Place Dec. ±.030; 2 Place Dec. ±.010; 3 Place Dec. ±.005; "Stock" ±.060; Angles ±.5°	SCALE: 1:7	DATE: MAY 2016
XXXXX		SIZE: D	MATERIAL: ASSEMBLY
NEXT ASSEMBLY			DESCRIPTION: Proton Detector Top Assembly
			PART #: N3010217-MDE-0001-0000 REV: 3