


REF	ASSEMBLY	CHAMBER	NOZZLE	WL/PL(IN)	VP DIA	BX	DEVICE	FUNCTION	VP PART #
A1	D970190-B-D	WH7	B2F1	635/114.5	7 3/4	10X	D970102-B	MMT3 TX	ISI 4.9722012
A2	D970190-B-D	WH7	B2F2	635	7 3/4	-	D970156-B	MMT3 RX	ISI 4.9722012
A3	-	WB4	G11	635/339.0	7 3/4	10X	D970102-B	RM TX	ISI 4.9722012
A4	-	WB4	G2	635	7 3/4	-	D970156-B	RM RX	ISI 4.9722012
A5	-	WB4	G1	635/132.1	7 3/4	10X	D970102-B	BS TX	ISI 4.9722012
A6	-	WB4	G3	635	7 3/4	-	D970156-B	BS RX	ISI 4.9722012
A7	-	WB7	G4	635/97.25	7 3/4	10X	D970102-B	FM(x) TX	ISI 4.9722012
A8	-	WB7	G5	635	7 3/4	-	D980479-A	FM(x) RX	ISI 4.9722012
A9	D990034-A-D	WA1A	P3	635/2236.2	5 3/8	30X	D979161-B	ITM(x) TX	VP800-AR635
A10	D990034-A-D	WA1A	P6	635	5 3/8	-	D980479-A	ITM(x) RX	VP800-AR635
A11	-	WA15B	P5	635/162.8	3	10X	D970102-B	FM(y) TX	VP300-AR635
A12	-	WB8	G3	635	7 3/4	-	D980479-A	FM(y) RX	ISI 4.9722012
A13	D000118-A-D	WA1B	P3	635/2234.2	5 3/8	30X	D970161-B	ITM(y) TX	VP800-AR635
A14	D000118-A-D	WA1B	P6	635	5 3/8	-	D980479-B	ITM(y) RX	VP800-AR635
A15	D000114-A-D	WA1	P4	635/479.4	5 3/8	10X	D970161-B	ETM(x) TX	VP800-AR635
A16	D000114-A-D	WA1	P1	635	5 3/8	-	D980479-A	ETM(x) RX	VP800-AR635
A17	D000115-A-D	WA1	P3	635/479.4	5 3/8	10X	D970161-B	ETM(y) TX	VP800-AR635
A18	D000115-A-D	WA1	P6	635	5 3/8	-	D980479-A	ETM(y) RX	VP800-AR635
A19	D970190-B-D	WH1	B2F1	635/85.1	7 3/4	10X	D970102-B	MMT3 TX	ISI 4.9722012
A20	D970190-B-D	WH1	B2F2	635	7 3/4	-	D970156-B	MMT3 RX	ISI 4.9722012
A21	-	WH2	A1F4	635/256.7	7 3/4	10X	D970102-B	RM TX	ISI 4.9722012
A22	-	WH2	A2F1	635	7 3/4	-	D970156-B	RM RX	ISI 4.9722012
A23	D000094-A-D	WB2	G1	635/144.0	7 3/4	10X	D970102-B	BS TX	ISI 4.9722012
A24	D000094-A-D	WB2	G3	635	7 3/4	-	D970156-B	BS RX	ISI 4.9722012
A25	D990034-A-D	WA1A	P4	635/2624.4	5 3/8	30X	D970161-B	ITM(x) TX	VP800-AR635
A26	D990034-A-D	WA1A	P1	635	5 3/8	-	D970156-B	ITM(x) RX	VP800-AR635
A27	D000118-A-D	WA1B	P3	635/2610.6	5 3/8	30X	D970161-B	ITM(y) TX	VP800-AR635
A28	D000118-A-D	WA1B	P6	635	5 3/8	-	D980479-A	ITM(y) RX	VP800-AR635
A29	D000116-A-D	WA1	P3	635/479.4	5 3/8	10X	D970161-B	ETM(x) TX	VP800-AR635
A30	D000116-A-D	WA1	P6	635	5 3/8	-	D970156-B	ETM(x) RX	VP800-AR635
A31	D000117-A-D	WA1	P4	635/479.4	5 3/8	10X	D970161-B	ETM(y) TX	VP800-AR635
A32	D000117-A-D	WA1	P1	635	5 3/8	-	D970156-B	ETM(y) RX	VP800-AR635

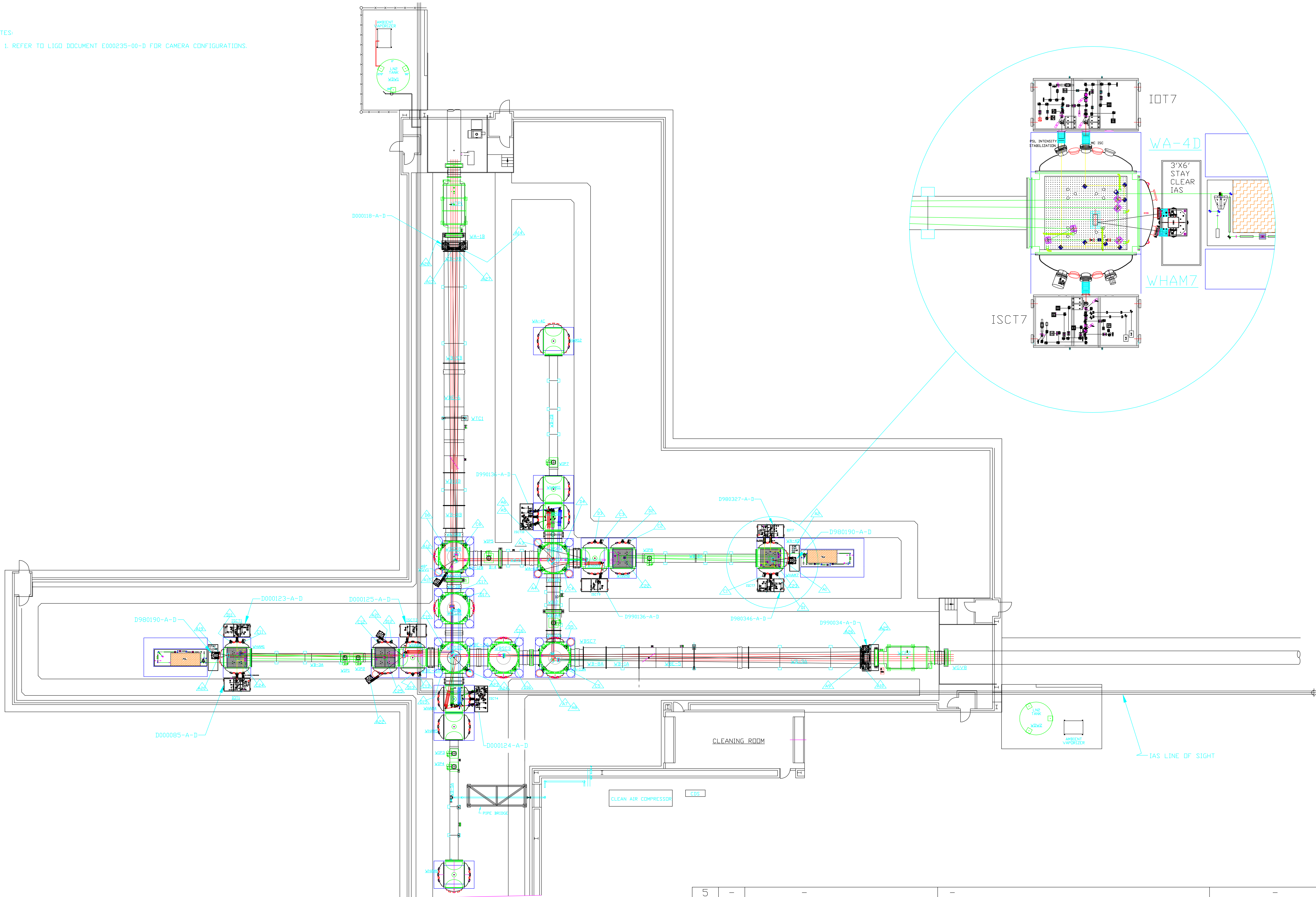
DWG. NO.		DESCRIPTION		MATERIAL:		HEAT TREAT:		FINISH:		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES: FRACTIONAL ±1/16(.16) ANGULAR ± 1° TWO PLACE DECIMAL ±.01(.025) THREE PLACE DECIMAL ±.005(.013)		FINISHED SURFACE RMS 63 BREAK CORNERS IN: .02 REMOVE ALL BURRS		C B A 00 REV		DESCRIPTION		DCC		SYS		DET		CDS		VE		CC		BT		CHECK		DRWN		DATE		K.MASON 4/28/97		MASON 5/00 MASON 4/00 MASON 5/98		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		ISC LAYOUT DRAWING OPTICAL LEVER LOCATIONS WASHINGTON SITE		CAD FILE D970220-C-S1.dwg		SIZE DWG. NO. B D970220-C-D		SCALE		SHEET 1 OF 8	
REFERENCE DRAWINGS		USED ON: -		NEXT ASS'Y: -																																																			

NO.	DEVICE#	CHAMBER	NOZZLE	COATING	LENS/VD(IN)	FUNCTION	VP-PART#
C1	D000153-A-D	WH7	A1F3	IR	TBD/60.0	MMT3 & MC INPUT COUPLER	VP800-AR1064
D1	D970212-A-D	WH7	A1F5	-	-	ILLUMINATOR	VP800/450009
C2	D970211-B-D	WH8	A2F3	IR	TBD/68.0	MC END MIRROR, MMT2	VP800-AR1064
D2	D970212-A-D	WH8	A2F3	-	-	ILLUMINATOR	VP800/450009
C3	D000153-A-D	WH9	A2F3	IR	TBD/84.0	RM (THRU AR)	VP800-AR1064
D3	D970212-A-D	WH9	A2F2	-	-	ILLUMINATOR	VP800/450009
C4	D000153-A-D	WB4	G9	IR	TBD/56.0	BS FACE (THRU AR)	VP800-AR1064
D4	D970212-A-D	WB4	G6	-	-	ILLUMINATOR	VP800/450009
C5	D970211-B-D	WB7	G3	IR	TBD/41.0	ITM(x) AND FOLD MIRROR	VP800-AR1064
D5	D970212-A-D	WB7	G12	-	-	ILLUMINATOR	VP800/450009
C6	D970211-B-D	WB8	G9	IR	TBD/44.0	ITM(y) AND FOLD MIRROR	VP800-AR1064
D6	D970212-A-D	WB8	G6	-	-	ILLUMINATOR	VP800/450009
C7	D970211-B-D	WB5	G6	IR	TBD/64.0	ETM(x)	VP800-AR1064
D7	D970212-A-D	WB5	G9	-	-	ILLUMINATOR	VP800/450009
C8	D970211-B-D	WB6	G3	IR	TBD/40.0	ETM(y)	VP800-AR1064
D8	D970212-A-D	WB6	G12	-	-	ILLUMINATOR	VP800/450009
C9	D000153-A-D	WBE-5	TBD	IR	TBD	BEAM FIND (TEMP. ON 10" TG)	VP800-AR1064
C10	D000153-A-D	WBE-6	TBD	IR	TBD	BEAM FIND (TEMP. ON 10" TG)	VP800-AR1064
C22	D000153-A-D	WA-7B1	TBD	IR	TBD	BEAM FIND (TEMP. ON 10" TG)	VP800-AR1064
C23	D000153-A-D	WA-7B2	TBD	IR	TBD	BEAM FIND (TEMP. ON 10" TG)	VP800-AR1064
C11	D000153-A-D	WH1	A1F3	IR	TBD/65.0	MMT3 & MC INPUT COUPLER	VP800-AR1064
D11	D970212-A-D	WH1	A1F5	-	-	ILLUMINATOR	VP800/450009
C12	D970211-B-D	WH2	A1F3	IR	TBD/98.0	MC END MIRROR, MMT2	VP800-AR1064
D12	D970212-A-D	WH2	A1F5	-	-	ILLUMINATOR	VP800/450009
C13	D000153-A-D	WH3	A2F3	IR	TBD/84.0	RM (FRONT SURFACE)	VP800-AR1064
D13	D970212-A-D	WH3	A2F4	-	-	ILLUMINATOR	VP800/450009
C14	DELETED	-	-	-	-	-	-
D14	DELETED	-	-	-	-	-	-
C15	D000153-A-D	WB2	G9	IR	TBD/48.0	BS FACE (THRU AR)	VP800-AR1064
D15	D970212-A-D	WB2	G6	-	-	ILLUMINATOR	VP800/450009
C16	D970211-B-D	WB3	G12	IR	TBD/51.0	ITM(x)	VP800-AR1064
D16	D970212-A-D	WB3	G9	-	-	ILLUMINATOR	VP800/450009

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES: FRACTIONAL ±1/16(.16) ANGULAR ± 1° TWO PLACE DECIMAL ±.01(.025) THREE PLACE DECIMAL ±.005(.013)		FINISHED SURFACE RMS 63 BREAK CORNERS IN: OUT: .02 REMOVE ALL BURRS		MATERIAL: / HEAT TREAT: / FINISH:		C UPDATED AS BUILT CHANGES B ADDED COMPONANT SPECIFICATIONS A INITIAL RELEASE 00 PRE-RELEASE		MASON 4/00 MASON 4/00 MASON 5/98 K.MASON 4/28/97		 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY ISC LAYOUT DRAWING CAMERA AND ILLUMINATOR LOCATIONS WASHINGTON SITE						
DWG. NO.	DESCRIPTION	USED ON:	NEXT ASS'Y:	ISSUE DESCRIPTION	DCC	SYS	DET	CDS	VE	CC	BT	CHECK	DRWN	DATE	CAD FILE	SIZE/DWG. NO.	SHEET	
6	REFERENCE DRAWINGS	-	-												D970220-C-S2.dwg	B	D970220-C-D	2 OF 8



NOTES:  
1. REFER TO LIGD DOCUMENT E000235-00-D FOR CAMERA CONFIGURATIONS.



REF	QTY	PART or DRWG No.	DESCRIPTION	MATERIAL
5	-	-	-	-
4	-	-	-	-
3	-	-	-	-
2	-	-	-	-
1	-	-	-	-

REV	DESCRIPTION	DCN NUMBER	APPR'D	CHECK	DRWN	DATE
00	PRE-RELEASE					7/97
A	INITIAL RELEASE					5/98
B	ADDED VIEWPORT LOCATIONS					4/00
C	UPDATED AS BUILT CHANGES					5/00

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES: FRACTIONAL ± ANGULAR ± ANGULARMACH ± BEND ± TWO PLACE DECIMAL ±		THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN: OUT: REMOVE ALL BURRS		
MATERIAL:	HEAT TREAT:	FINISH:				
USED ON: XXX	NEXT ASS'Y: XXX					

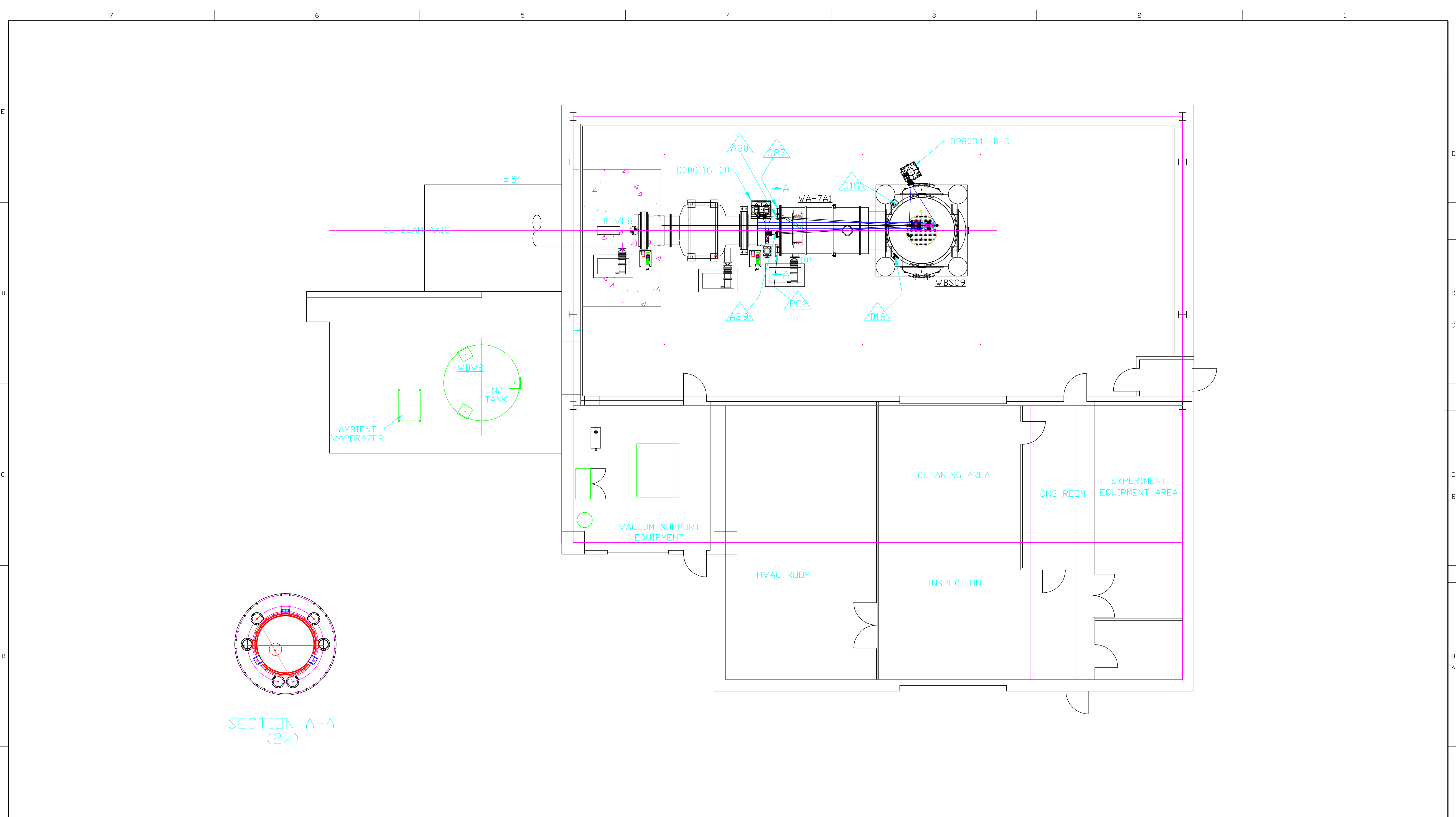
DWG. NO.	DESCRIPTION	SCALE	1' = 10'	SHEET	4 OF 8
	REFERENCE DRAWINGS				

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ISC LAYOUT DRAWING  
CORNER STATION  
WASHINGTON SITE

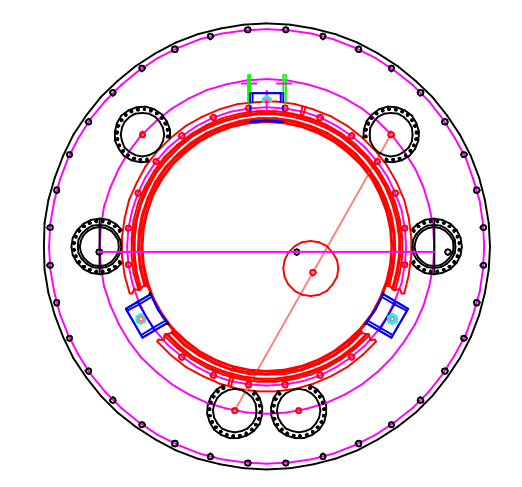
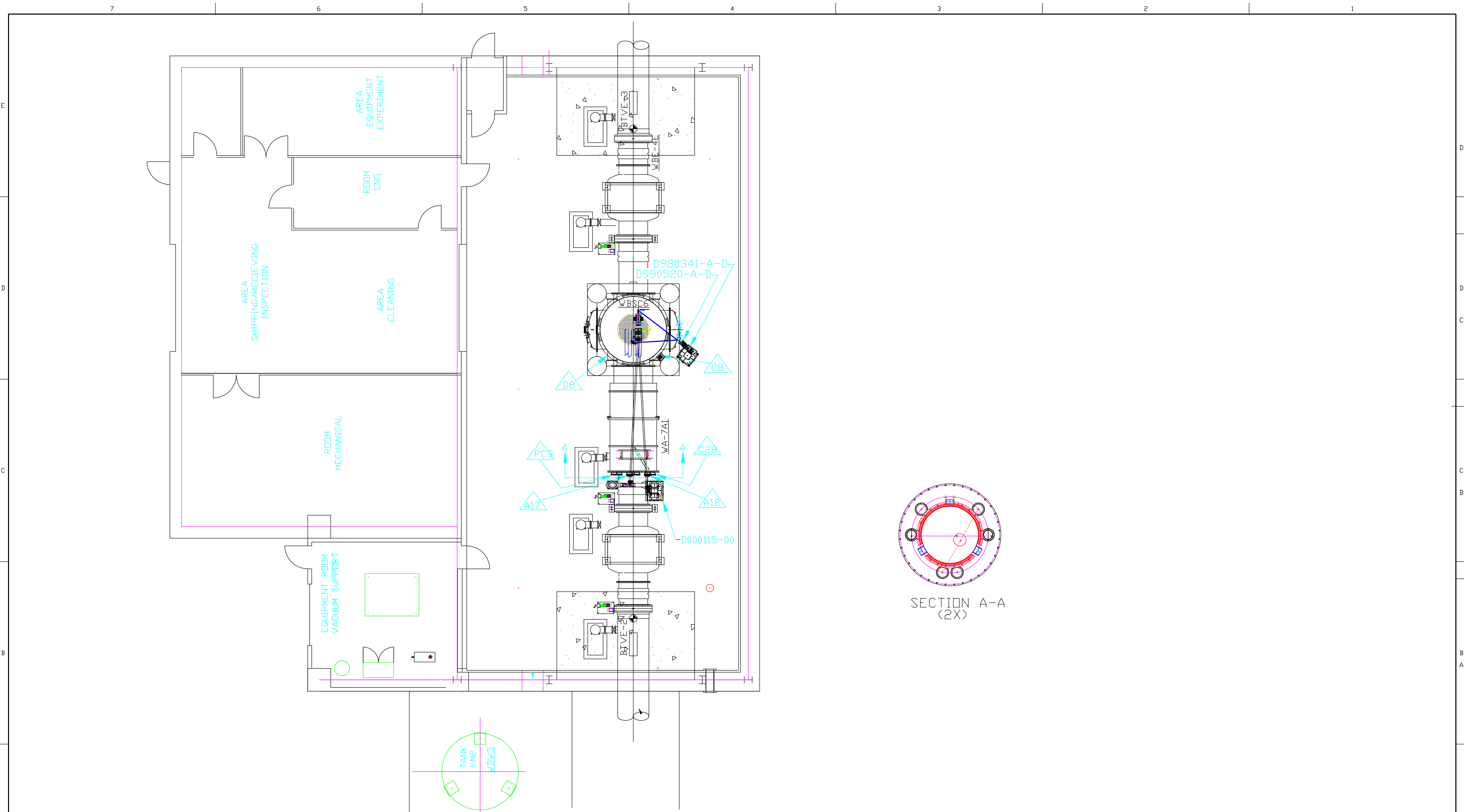
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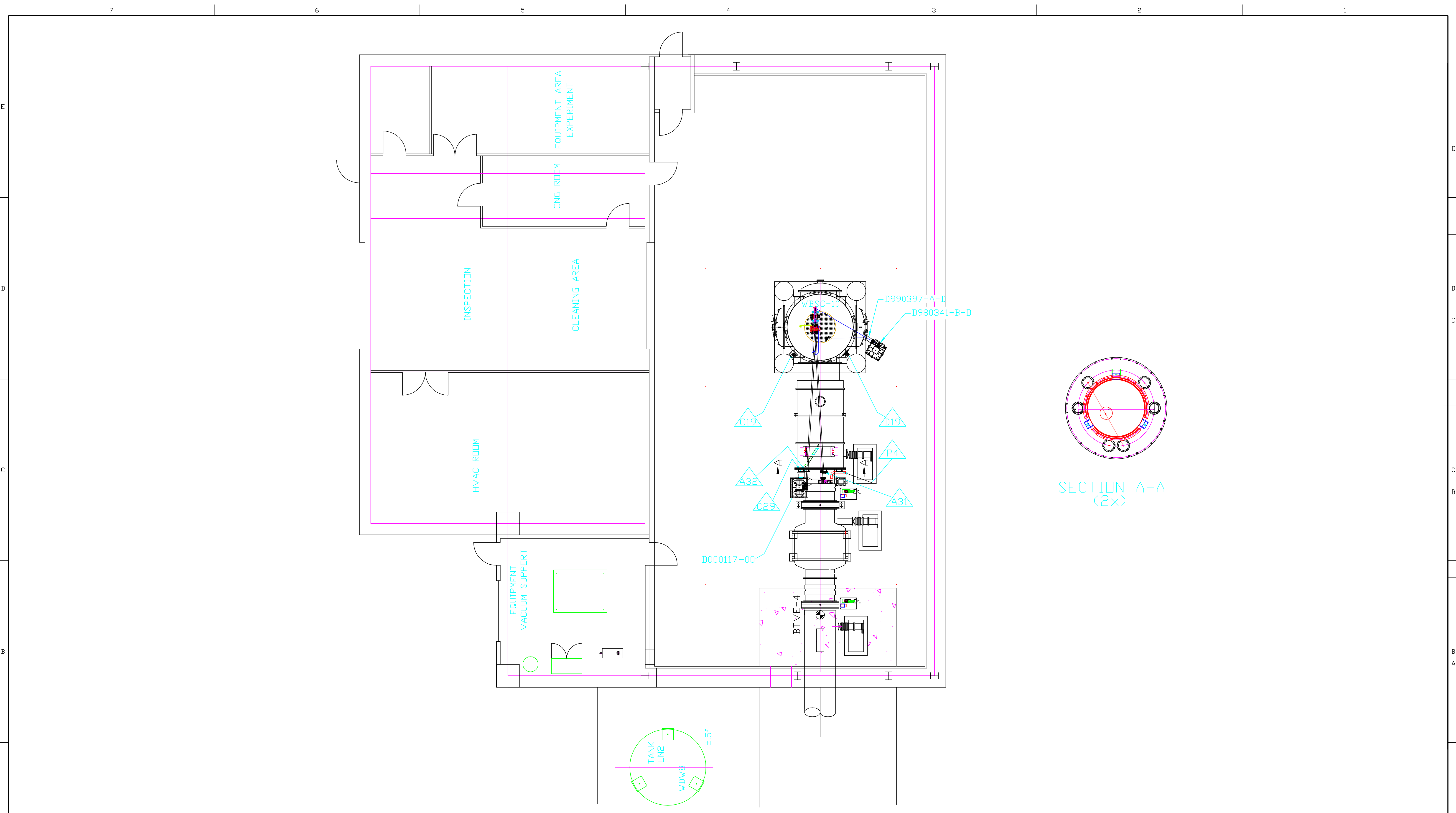
SECTION A-A  
(2x)

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES														<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY																													
		TOLERANCES:		FINISHED SURFACE RMS													ISC EQUIPMENT LAYOUT END STATION- X ARM WASHINGTON SITE																												
		FRACTIONAL ± 1/8 (3 mm)		63													CAD FILE																												
		ANGULAR ± 1°		BREAK CORNERS IN: OUT: .02													D970220-C-S6.dwg																												
		TWO PLACE DECIMAL ± -		REMOVE ALL BURRS													SIZE DWG. NO.																												
		THREE PLACE DECIMAL ± -															D970220-C-D																												
		MATERIAL:		HEAT TREAT:		FINISH:		REV				DESCRIPTION				DCC			SYS			DET			CDS			VE			CC			BT			CHECK			DRWN			DATE		
DWG. NO.		DESCRIPTION		USED ON:		NEXT ASS'Y:		00				PRE-RELEASE				MASON			7/97			SCALE			1" = 6'			SHEET			6 OF 8														
7		REFERENCE DRAWINGS		6		5		4				3				2			1																										



SECTION A-A  
(2X)

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES														 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY																													
		TOLERANCES: FRACTIONAL ± 1/8 (3 mm) ANGULAR ± 1° TWO PLACE DECIMAL ± - THREE PLACE DECIMAL ± -		FINISHED SURFACE RMS 63 BREAK CORNERS IN: .02 REMOVE ALL BURRS														ISC EQUIPMENT LAYOUT MID STATION- Y ARM WASHINGTON SITE																											
		MATERIAL: _____ HEAT TREAT: _____ FINISH: _____														CAD FILE: D970220-C-S7.dwg SCALE: 1" = 6'																													
DWG. NO.		DESCRIPTION		<table border="1"> <tr> <td>REV</td> <td>DESCRIPTION</td> <td>DCC</td> <td>SYS</td> <td>DET</td> <td>CDS</td> <td>VE</td> <td>CC</td> <td>BT</td> <td>CHECK</td> <td>DRWN</td> <td>DATE</td> <td>SIZE</td> <td>DWG. NO.</td> </tr> <tr> <td>00</td> <td>PRE-RELEASE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D</td> <td>D970220-C-D</td> </tr> </table>												REV	DESCRIPTION	DCC	SYS	DET	CDS	VE	CC	BT	CHECK	DRWN	DATE	SIZE	DWG. NO.	00	PRE-RELEASE											D	D970220-C-D	SHEET 7 OF 8	
REV	DESCRIPTION	DCC	SYS	DET	CDS	VE	CC	BT	CHECK	DRWN	DATE	SIZE	DWG. NO.																																
00	PRE-RELEASE											D	D970220-C-D																																
REFERENCE DRAWINGS		USED ON: - NEXT ASS'Y: -		ISSUE DESCRIPTION C UPDATED TO AS BUILT CHANGES B ADDED VIEWPORT LOCATIONS A INITIAL RELEASE																																									



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES:  
FRACTIONAL ± 1/8 (3 mm)  
ANGULAR ± 1°  
TWO PLACE DECIMAL ± -  
THREE PLACE DECIMAL ± -

FINISHED SURFACE RMS 63  
BREAK CORNERS IN: OUT: .02  
REMOVE ALL BURRS

MATERIAL: \_\_\_\_\_ HEAT TREAT: \_\_\_\_\_ FINISH: \_\_\_\_\_

REV	DESCRIPTION	DCC	SYS	DET	CDS	VE	CC	BT	CHECK	DRWN	DATE
C	UPDATED TO AS BUILT CHANGES									MASON	5/00
B	ADDED VIEWPORT LOCATIONS									MASON	9/98
A	INITIAL RELEASE									MASON	5/98
00	PRE-RELEASE									MASON	7/97

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ISC EQUIPMENT LAYOUT  
END STATION- Y ARM  
WASHINGTON SITE

CAD FILE: D970220-C-S8.dwg SIZE: D DWG. NO: D970220-C-D  
SCALE: 1" = 6' SHEET: 8 OF 8

DWG. NO.	DESCRIPTION
	REFERENCE DRAWINGS

USED ON:	NEXT ASS'Y:
-	-

ISSUE DESCRIPTION