

NOTES:
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 2. AFTER LOCATING ALL MONUMENTS, VERIFY Z-POSITION AND RECORD.

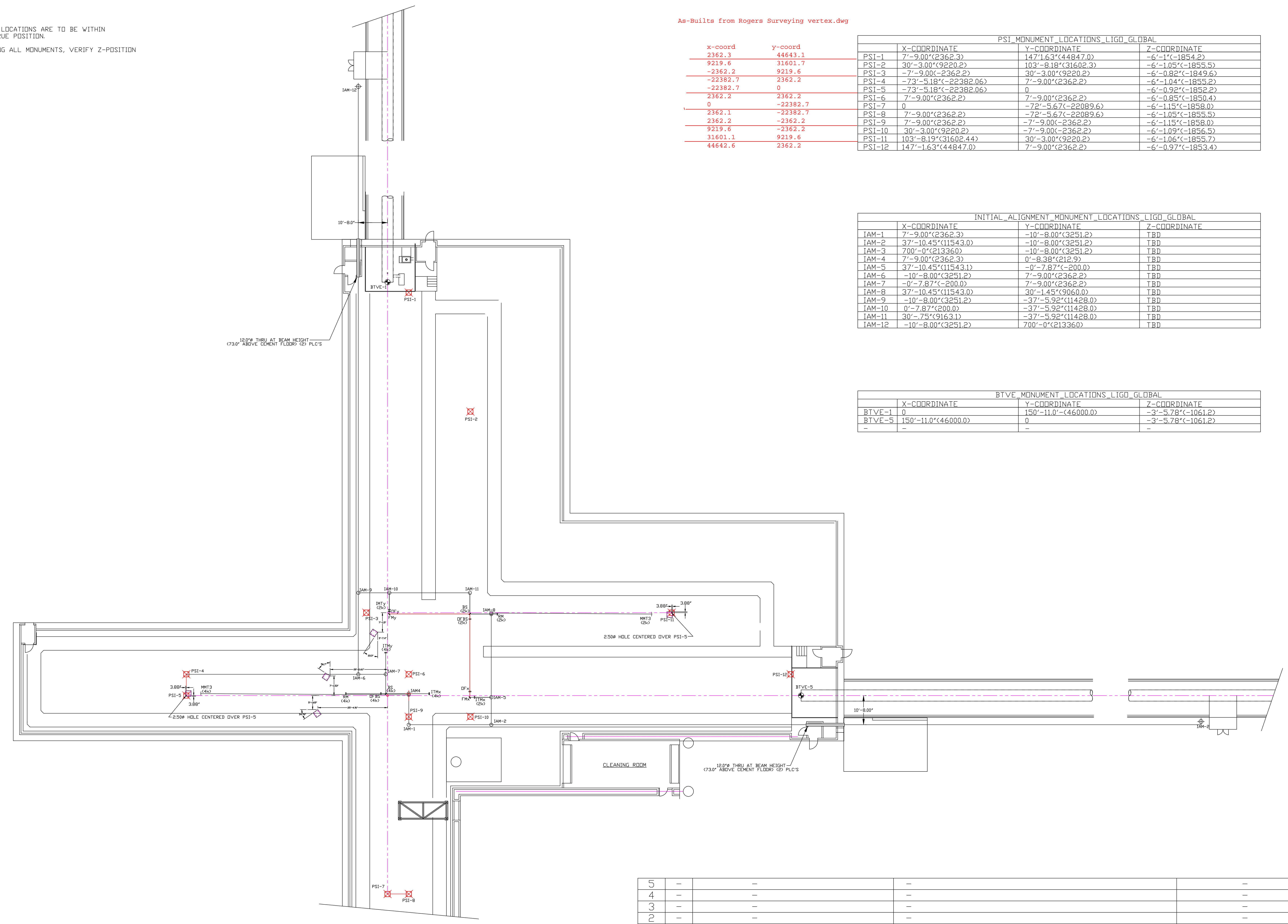
As-Builts from Rogers Surveying vertex.dwg

x-coord	y-coord
2362.3	44643.1
9219.6	31601.7
-2362.2	9219.6
-22382.7	2362.2
-22382.7	0
2362.2	2362.2
0	-22382.7
2362.1	-22382.7
2362.2	-2362.2
9219.6	-2362.2
31601.1	9219.6
44642.6	2362.2

	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
PSI-1	7'-9.00"(2362.3)	147'-1.63"(44847.0)	-6'-1"(-1854.2)
PSI-2	30'-3.00"(9220.2)	103'-8.18"(31602.3)	-6'-1.05"(-1855.5)
PSI-3	-7'-9.00"(-2362.2)	30'-3.00"(9220.2)	-6'-0.82"(-1849.6)
PSI-4	-73'-5.18"(-22382.06)	7'-9.00"(2362.2)	-6'-1.04"(-1855.2)
PSI-5	-73'-5.18"(-22382.06)	0	-6'-0.92"(-1852.2)
PSI-6	7'-9.00"(2362.2)	7'-9.00"(2362.2)	-6'-0.85"(-1850.4)
PSI-7	0	-72'-5.67"(-22089.6)	-6'-1.15"(-1858.0)
PSI-8	7'-9.00"(2362.2)	-72'-5.67"(-22089.6)	-6'-1.05"(-1855.5)
PSI-9	7'-9.00"(2362.2)	-7'-9.00"(-2362.2)	-6'-1.15"(-1858.0)
PSI-10	30'-3.00"(9220.2)	-7'-9.00"(-2362.2)	-6'-1.09"(-1856.5)
PSI-11	103'-8.19"(31602.44)	30'-3.00"(9220.2)	-6'-1.06"(-1855.7)
PSI-12	147'-1.63"(44847.0)	7'-9.00"(2362.2)	-6'-0.97"(-1853.4)

	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
IAM-1	7'-9.00"(2362.3)	-10'-8.00"(-3251.2)	TBD
IAM-2	37'-10.45"(11543.0)	-10'-8.00"(-3251.2)	TBD
IAM-3	700'-0"(213360)	-10'-8.00"(-3251.2)	TBD
IAM-4	7'-9.00"(2362.3)	0'-8.38"(-252.9)	TBD
IAM-5	37'-10.45"(11543.1)	-0'-7.87"(-200.0)	TBD
IAM-6	-10'-8.00"(-3251.2)	7'-9.00"(2362.2)	TBD
IAM-7	-0'-7.87"(-200.0)	7'-9.00"(2362.2)	TBD
IAM-8	37'-10.45"(11543.0)	30'-1.45"(9060.0)	TBD
IAM-9	-10'-8.00"(-3251.2)	-37'-5.92"(-11428.0)	TBD
IAM-10	0'-7.87"(-200.0)	-37'-5.92"(-11428.0)	TBD
IAM-11	30'-7.5"(9163.1)	-37'-5.92"(-11428.0)	TBD
IAM-12	-10'-8.00"(-3251.2)	700'-0"(213360)	TBD

	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
BTVE-1	0	150'-11.0"(-46000.0)	-3'-5.78"(-1061.2)
BTVE-5	150'-11.0"(-46000.0)	0	-3'-5.78"(-1061.2)
-	-	-	-



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

REV	DESCRIPTION	DCN NUMBER	APPR'D	CHECK	DRWN	DATE
B	ADDED GROUT PLATE LOCATIONS	-	-	-	MASON	9/98
A	INITIAL RELEASE	-	-	-	MASON	5/98
00	PRE-RELEASE	-	-	-	MASON	7/97

DWG. NO.	DESCRIPTION	MATERIAL	HEAT TREAT	FINISH
00	PRE-RELEASE			

SCALE	1' = 15'	SHEET	1 OF 5

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

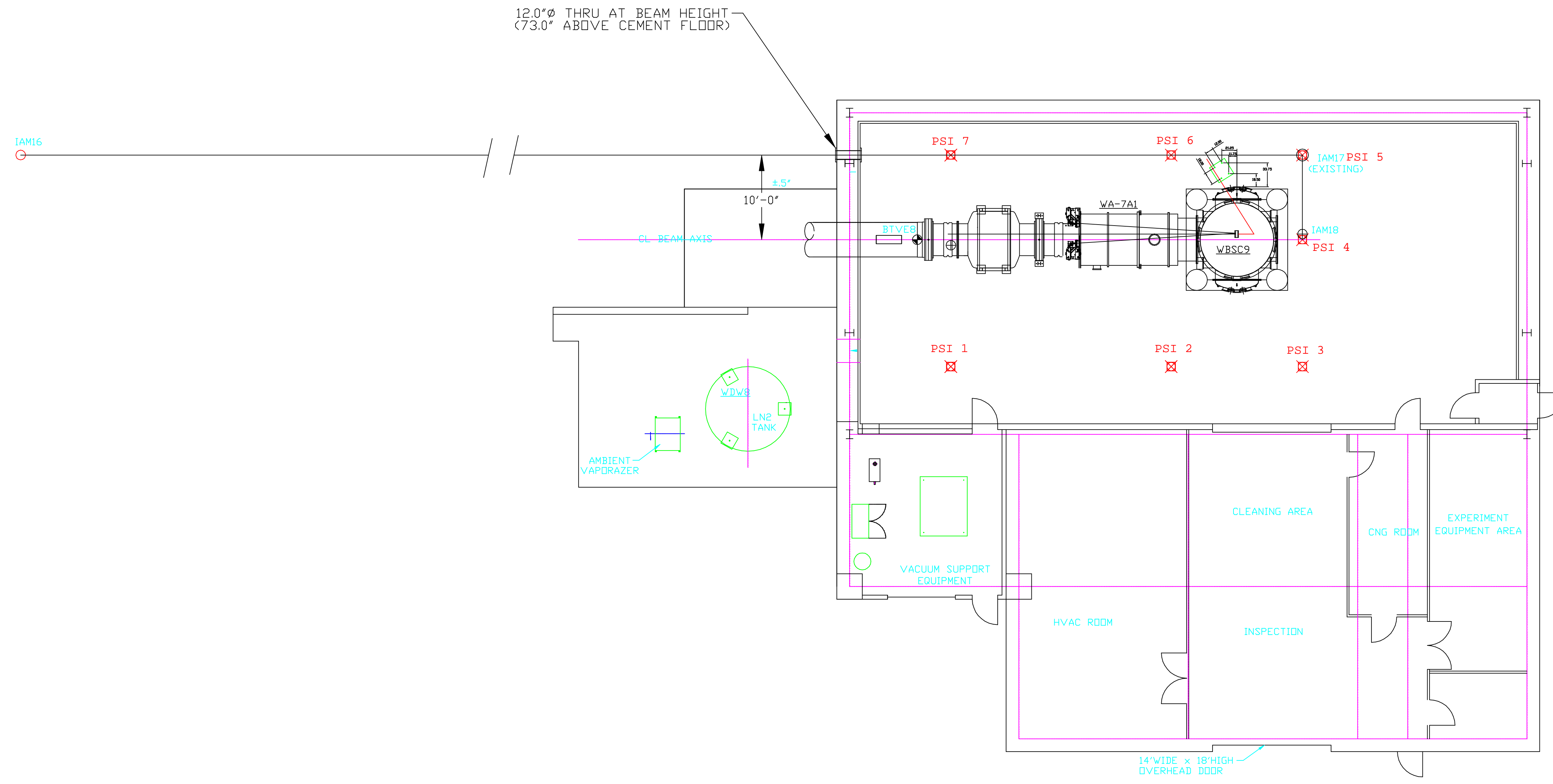
ASC MONUMENT LOCATIONS
 CORNER STATION
 WASHINGTON SITE

CAD FILE: D970210-B-S1.dwg
 SIZE: E
 DWG. NO.: D970210-B-D

NOTES:

1. ALL MONUMENT LOCATIONS ARE TO BE WITHIN +/- 3MM OF TRUE POSITION.
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PSI_MONUMENT_LOCATIONS_LIGO_GLOBAL			
	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
IAM-16	12389'-0"(<314680.6)	10'-0"(<3048.0)	TBD
IAM-17	13131'-0.31"(<4002336.75)	10'-0"(<3048.0)	TBD
IAM-18	13131'-0.31"(<4002336.75)	0'-7.87"(<200.0)	TBD
-	-	-	-
BTVE-8	13085'-7.44"(<3988497.0)	0	-3'-5.61"(<-1056.9)



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
B	ADDED GROUT PLATE LOCATIONS									MASON	2/99
A	INITIAL RELEASE									MASON	5/98
01	CH'D MONUMENT LOCATIONS									MASON	2/98
00	PRE-RELEASE									MASON	7/97

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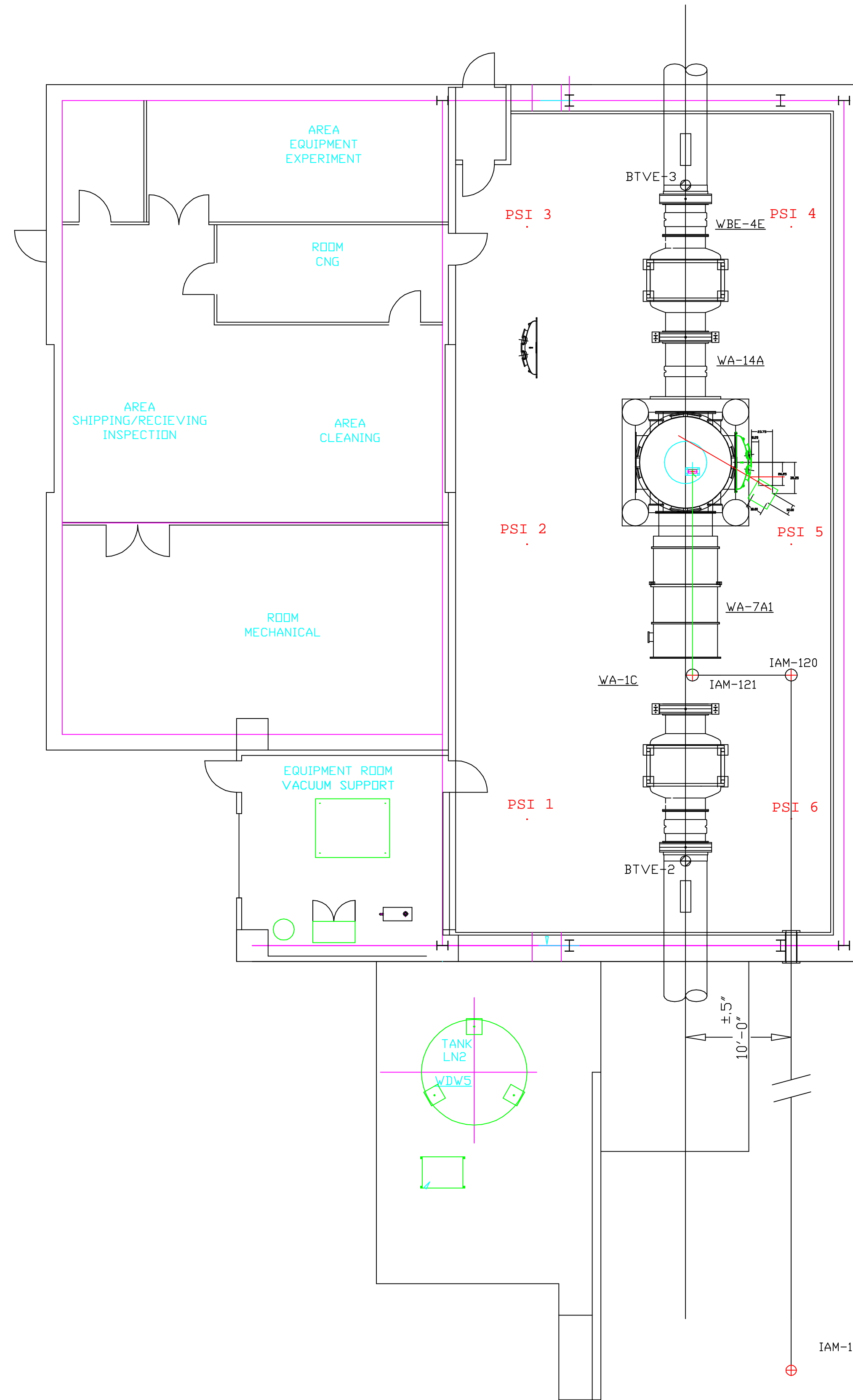
ASC MONUMENT LOCATIONS
END STATION- X ARM
WASHINGTON SITE

CAD FILE: D970210-B-S3.dwg SIZE: D DWG. NO: D970210-B-D
SCALE: 1" = 8' SHEET: 3 of 5

NOTES:

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MONUMENT_LOCATIONS_LIGO_GLOBAL			
	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
IAM-19	3048.0	1780032.0	-
IAM-20	3048.0	2021211.35	-
IAM-21	200.0	2021211.35	-
IAM-120	3048.0	2018689.1	-
IAM-121	199.6	2018689.1	-
BTVE-2	0	2007498.5	-1056.9
BTVE-3	0	2026996.2	-1064.8



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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
B	ADDED GROUT PLATE LOCATIONS									MASON	2/99
A	INITIAL RELEASE									MASON	5/98
01	CH'D MONUMENT LOCATIONS									MASON	2/98
00	PRE-RELEASE									MASON	7/97

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ASC MONUMENT LOCATIONS
MID STATION- Y ARM
WASHINGTON SITE

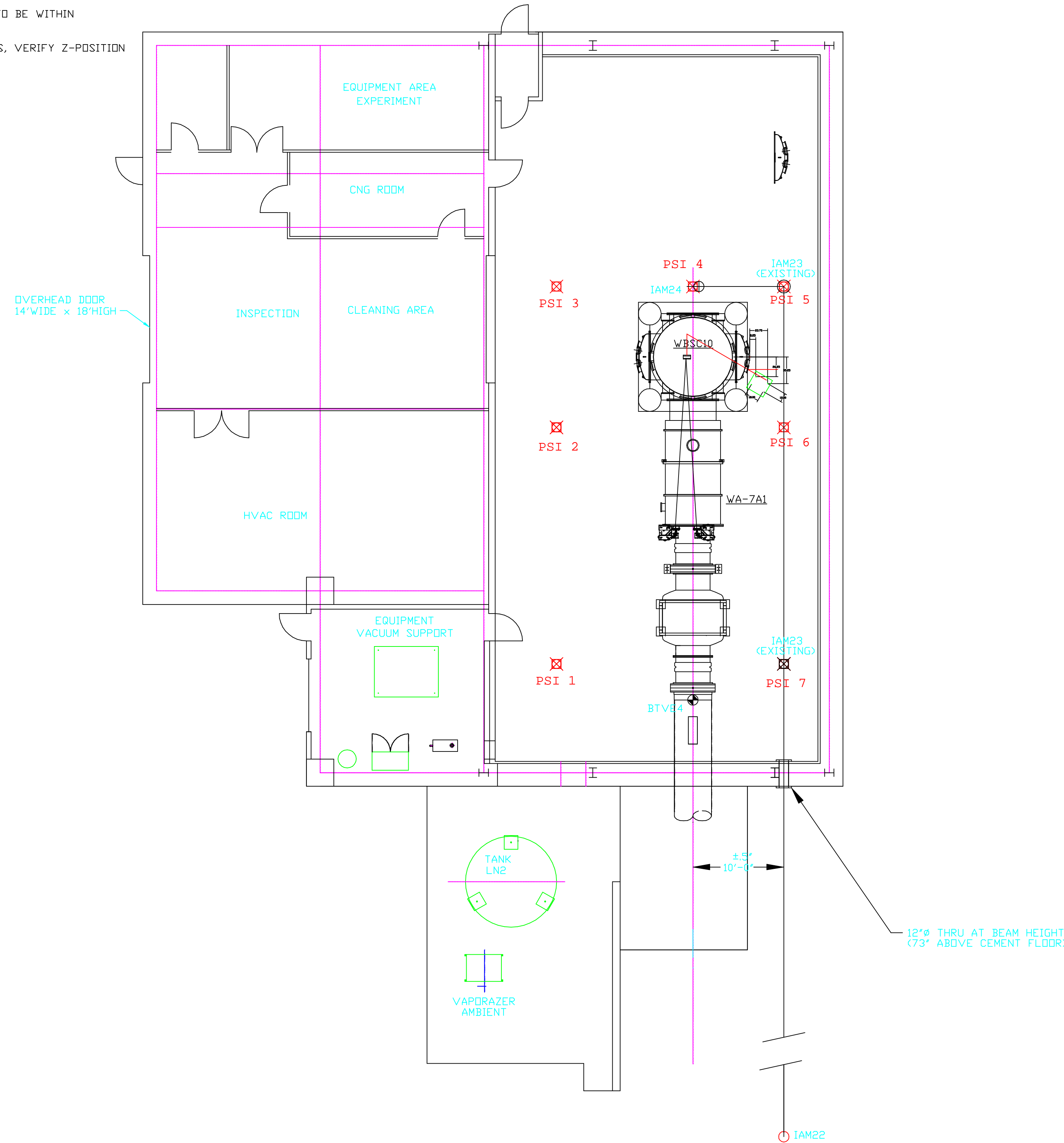
CAD FILE: D970210-B-S1.dwg SIZE: D DWG. NO: D970210-B-D
SCALE: 1" = 8' SHEET: 4 of 5

DWG. NO.	DESCRIPTION
	REFERENCE DRAWINGS

NOTES:

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PSI MONUMENT LOCATIONS_LIGO_GLOBAL			
	X-COORDINATE	Y-COORDINATE	Z-COORDINATE
IAM-22	10'-0" (3048.0)	12389'-0" (3776167.2)	TBD
IAM-23	10'-0" (3048.0)	13131'-1.69" (4002371.75)	TBD
IAM-24	0'-7.87" (200.0)	13131'-1.69" (4002371.75)	TBD
BTVE-4	0	13085'-7.70" (3988503.6)	-3'-5.61" (-1056.9)



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
B	ADDED GROUT PLATE LOCATIONS									MASON	2/99
A	INITIAL RELEASE									MASON	5/98
01	CH'D MONUMENT LOCATIONS									MASON	2/98
00	PRE-RELEASE									MASON	7/97

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ASC MONUMENT LOCATIONS
END STATION- Y ARM
WASHINGTON SITE

CAD FILE	SIZE	DWG. NO.
D970210-B-S5.dwg	D	D970210-B-D
SCALE	1" = 8'	SHEET 5 of 5