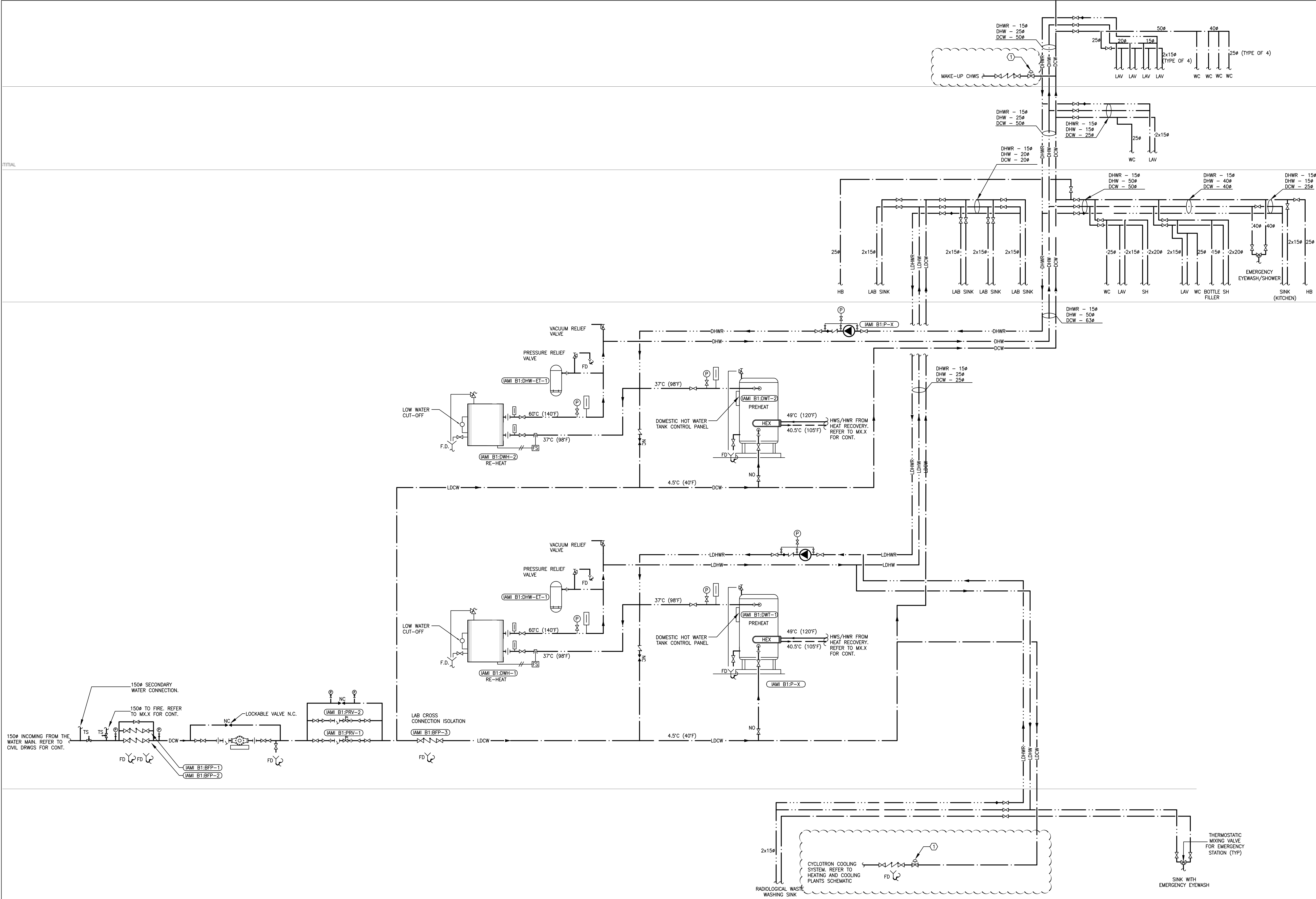


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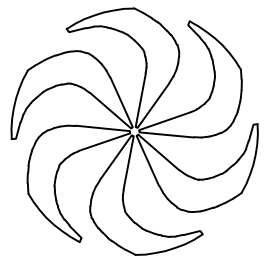


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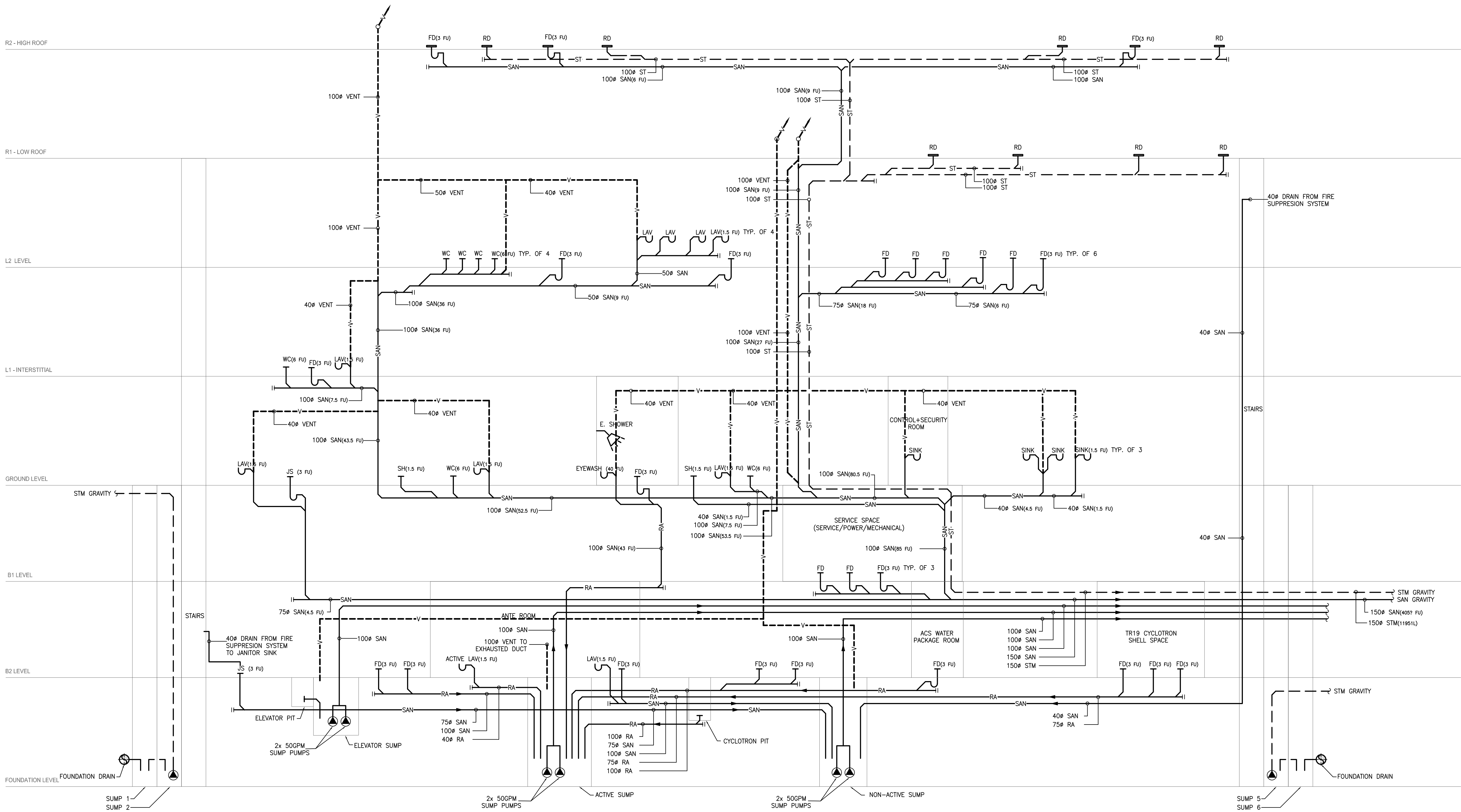
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DRAWN A.BALCHI
CHECKED Z.PULJIC
WR #
APPROVED

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B 2018-11-23 100% Design Development			
A 2018-10-17 100% Design Development For Review			
REV	DATE	REVISION DESCRIPTION	BY
TRIUMF Canada's National Laboratory for Particle and Nuclear Physics 4004 Westbrook Mall Vancouver BC Canada V6T-2A3			
INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)			
DOMESTIC WATER SCHEMATIC - MECHANICAL			
PLOT SCALE	N.T.S.	JOB NO.	DWG NO.
DATE	10/11/18	0168-146-18	19412
			REV. C



1 DRAINAGE SCHEMATIC
MX.XX SCALE: N.T.S.

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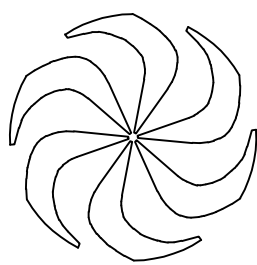
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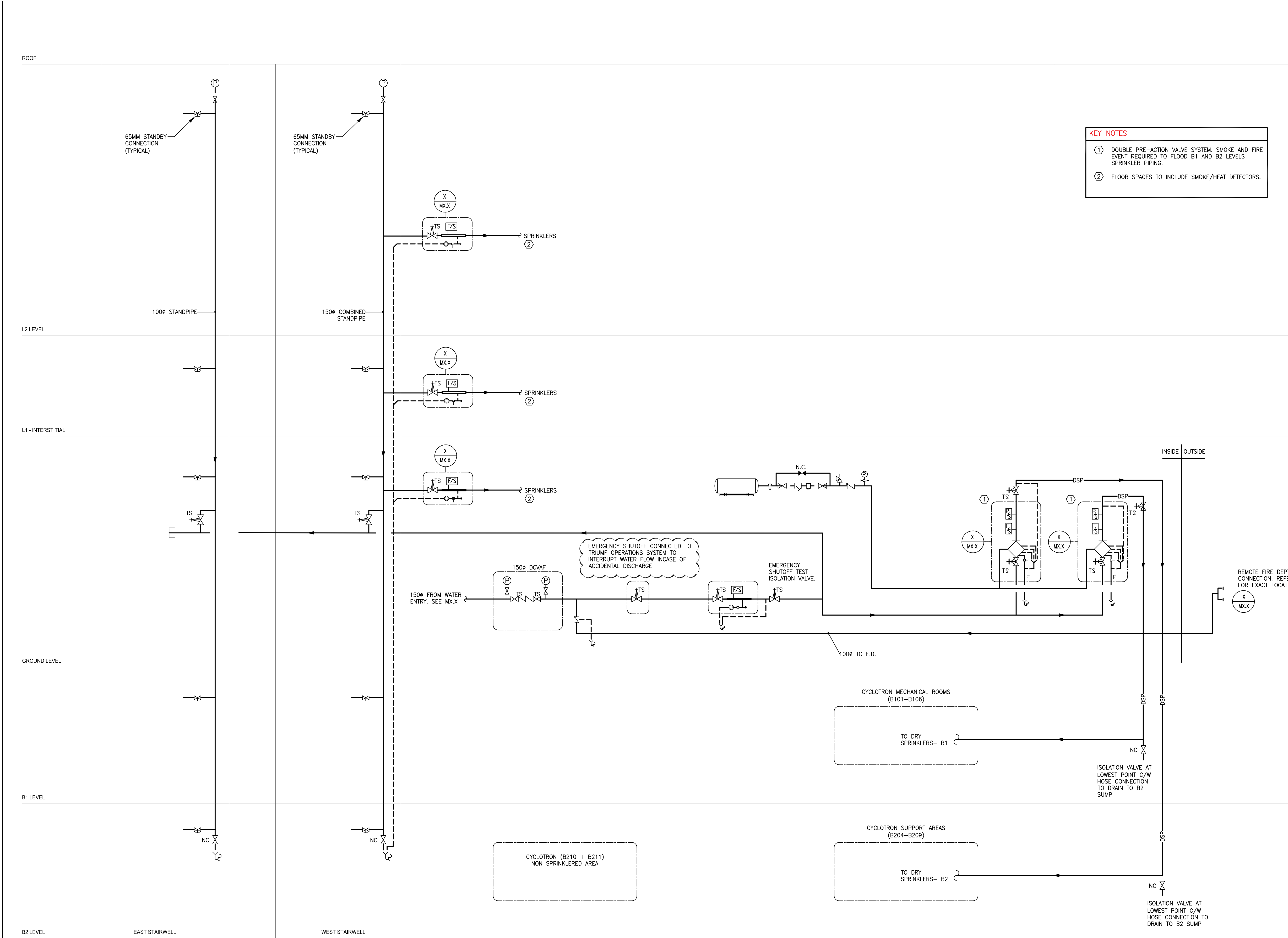
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INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)
DRAINAGE SCHEMATIC - MECHANICAL

PLOT SCALE N.T.S.	JOB NO. 018-146-18	DWG NO. 19413	REV. C
DATE 10/11/18			



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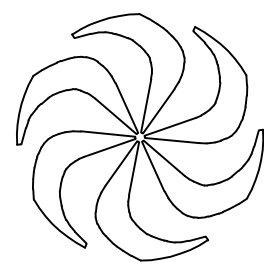
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INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)
FIRE PROTECTION SCHEMATIC - MECHANICAL

DESIGNED	M.DE ALBA	PLOT SCALE	N.T.S.	JOB NO.	0168-146-18	DWG NO.	19414	REV.	C
DRAWN	A.BALCHI	DATE	10/11/18						
CHECKED	Z.PULJIC								
WR #									
APPROVED									

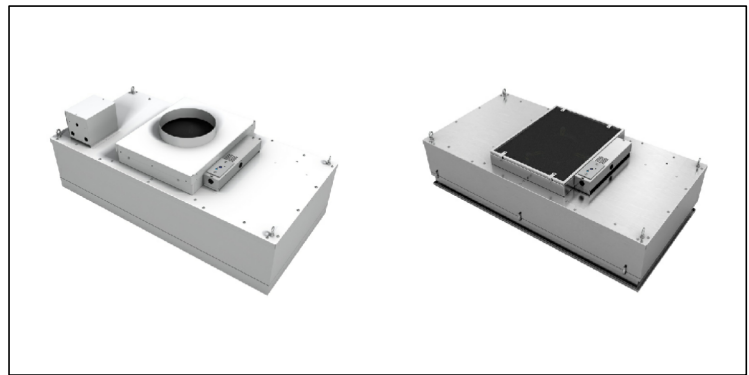
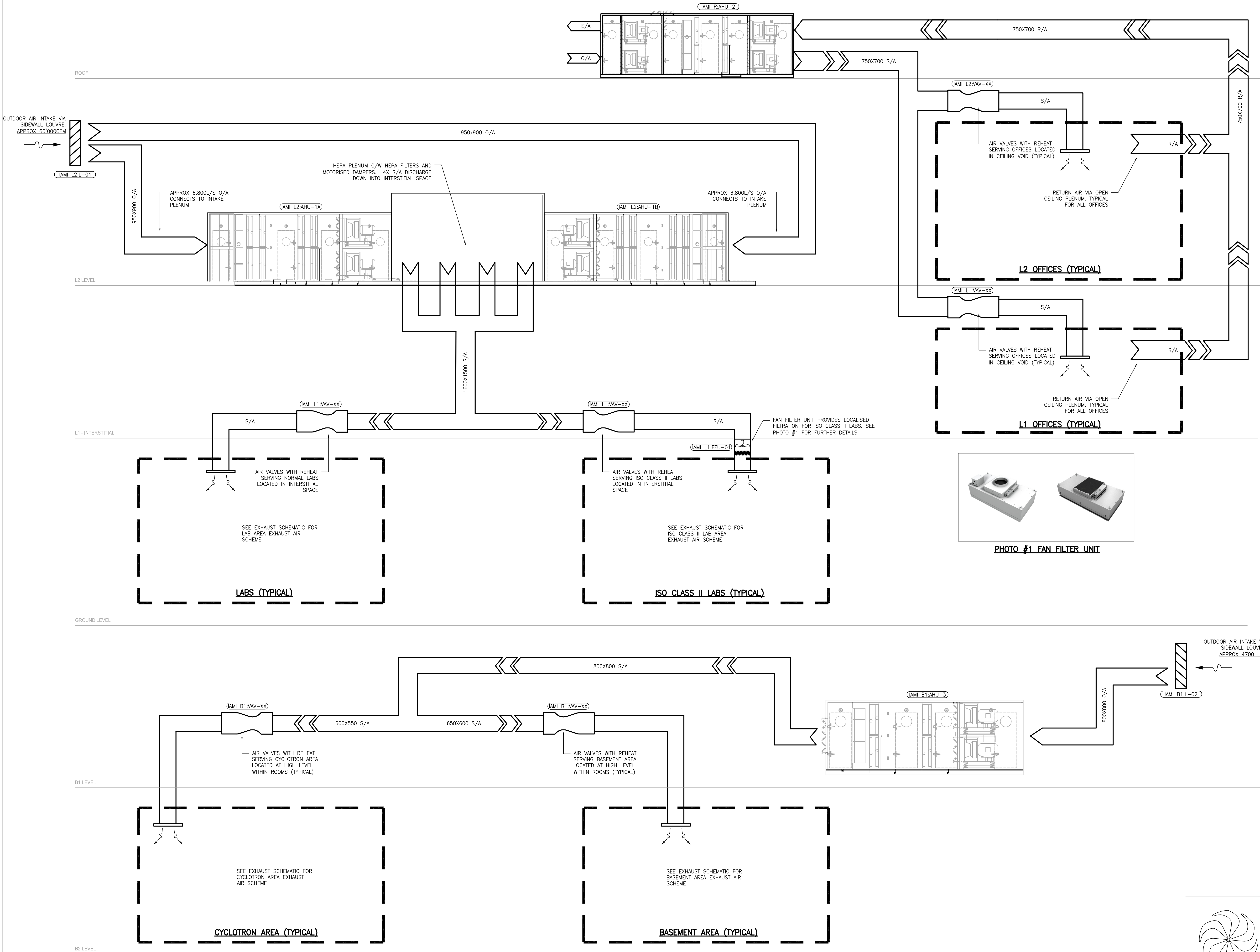
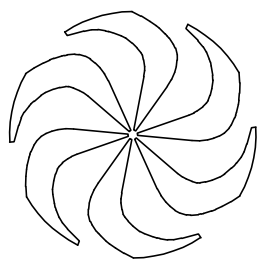


PHOTO #1 FAN FILTER UNIT



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REV	DATE	REVISION DESCRIPTION			

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INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)
SUPPLY AIRFLOW SCHEMATIC - MECHANICAL

DESIGNED	M.DE ALBA
DRAWN	A.BALCHI
CHECKED	Z.PULJIC
WR #	
APPROVED	

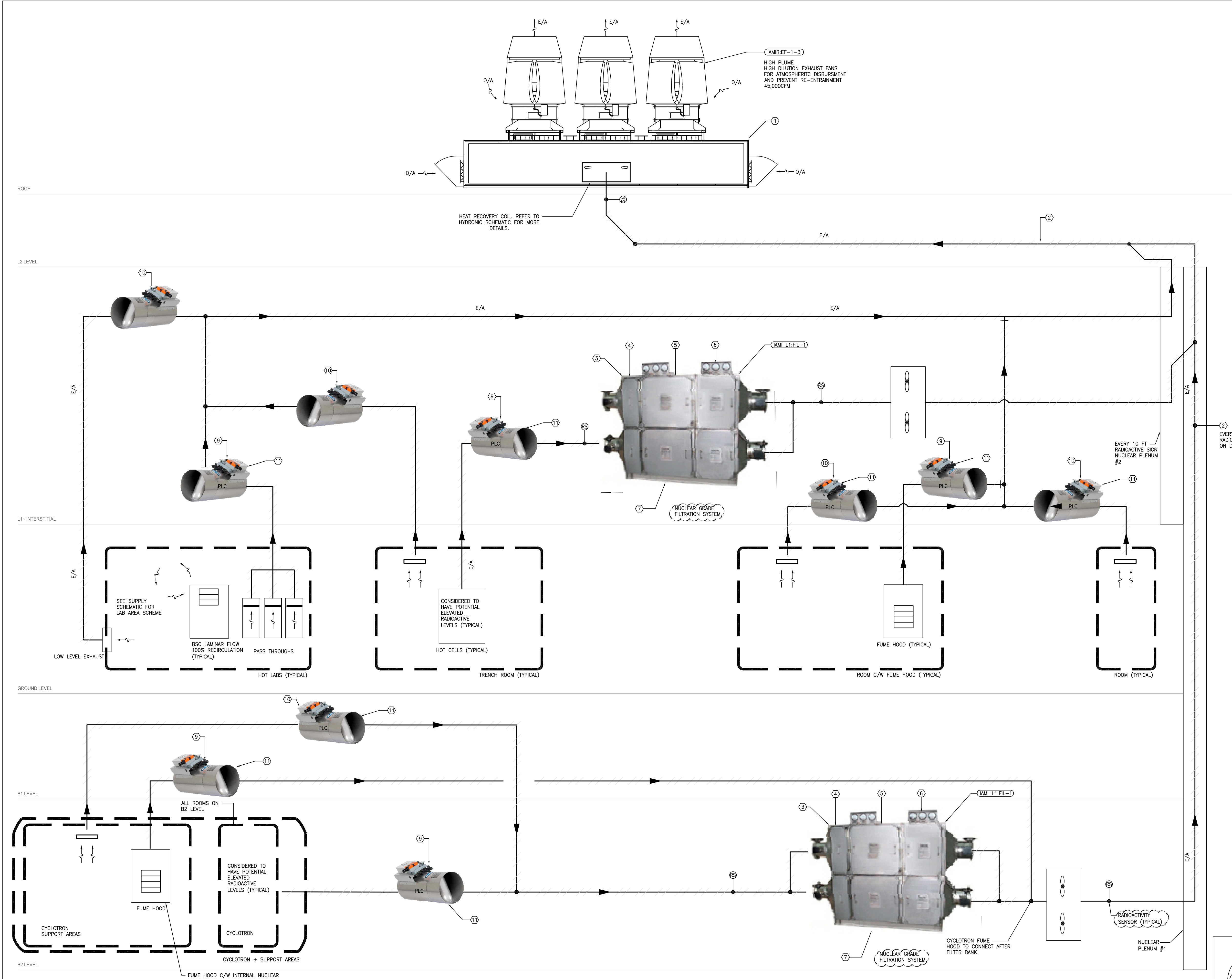
PLOT SCALE	N.T.S.	JOB NO.	0160-146-18	DWG NO.	19415	REV.	C
DATE	10/11/18						

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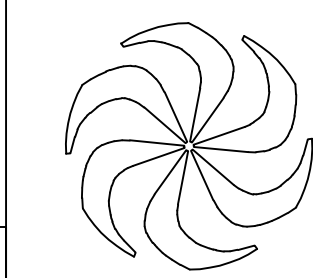
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SEAL:



- KEY NOTES**
- ① HIGH PLUME EXHAUST DILUTION FANS WITH N+1 REDUNDANCY.
 - ② ALL EXHAUST DUCTWORK IN THE FACILITY TO BE STAINLESS STEEL, FULLY WELDED, ALL UNDER NEGATIVE PRESSURE, AT LEAST RATED TO 10" STATIC PRESSURE OR 1.5 X MAOP, AND LABELLED.
 - ③ HOUSING OF EXHAUST FILTER BANK CONTAINMENT SYSTEM (TYPICAL).
 - ④ PRE-FILTER FOR PARTICLES (TYPICAL).
 - ⑤ HEPA FILTER FOR PARTICLES (TYPICAL).
 - ⑥ CARBON FILTER FOR GASES (TYPICAL).
 - ⑦ 100% REDUNDANT UNIT.
 - ⑧ HEAT RECOVERY COIL.
 - ⑨ AIR VALVE (FAST REACTING, PRESSURE INDEPENDENT) CONTROLLING EXHAUST FLOW. CONNECTED TO DDC SYSTEM.
 - ⑩ AIR VALVE (NON-FAST REACTING, PRESSURE INDEPENDENT) CONTROLLING EXHAUST FLOW. CONNECTED TO DDC SYSTEM.
 - ⑪ REFER TO DRAWINGS FOR EXHAUST AIR VALVE QUANTITY AND LOCATIONS.
 - ⑫ EXHAUST UNIT C/W HEAT RECOVERY SYSTEM IN EXHAUST PLENUM.



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A	2018-10-17	100% Design Development For Review			
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TRIUMF Canada's National Laboratory for Particle and Nuclear Physics 4004 Westbrook Mall Vancouver BC Canada V6T-2A3					
INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)					
EXHAUST SYSTEM AIRFLOW SCHEMATIC - MECHANICAL					
DESIGNED	M.DE ALBA				
DRAWN	A.BALCHI				
CHECKED	Z.PULJIC				
WR #		PLOT SCALE	N.T.S.	JOB NO.	
APPROVED		DATE	10/11/18	0186-146-18	
				DWG NO.	19416
				REV.	C

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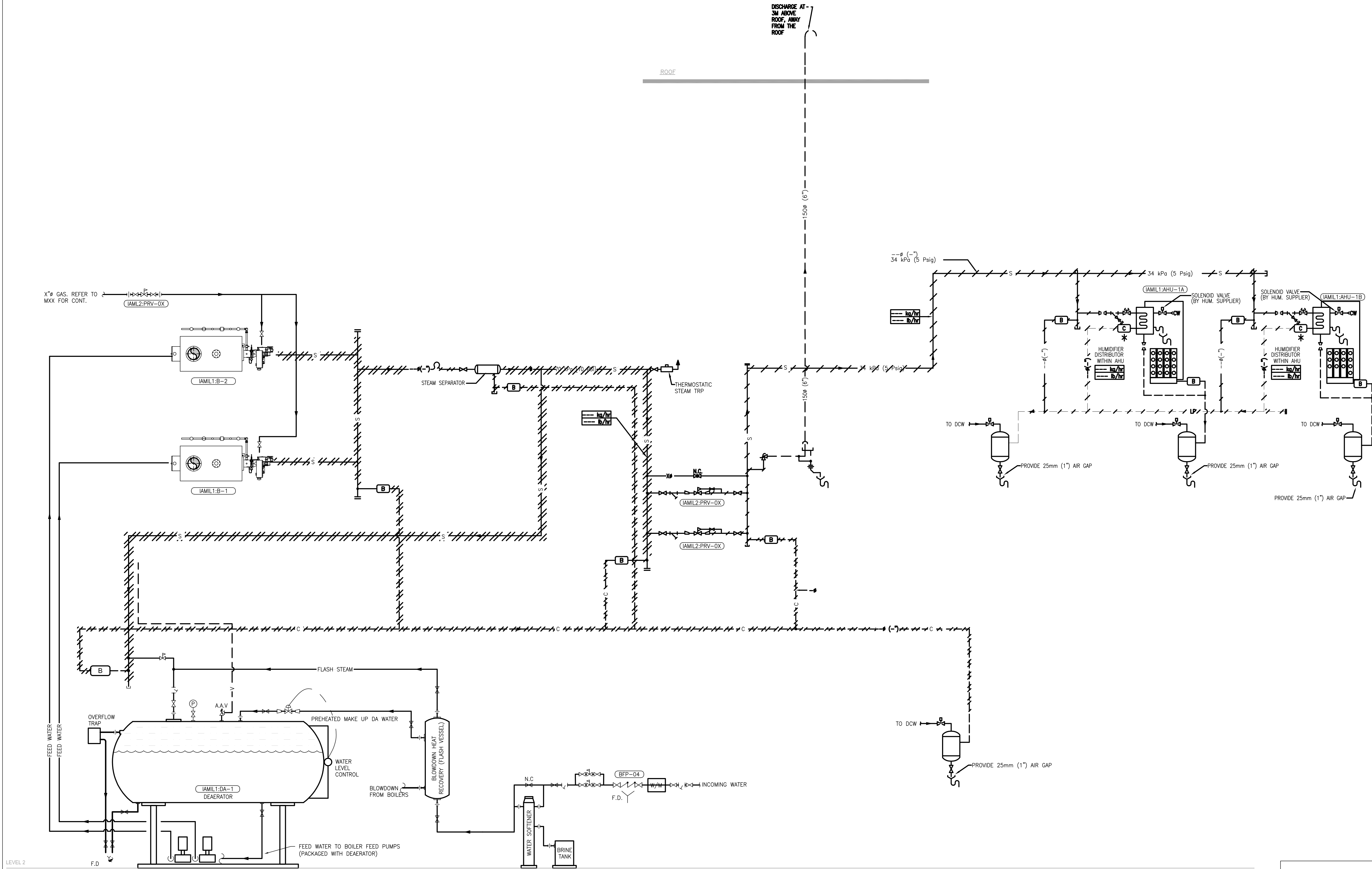
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LEVEL 2

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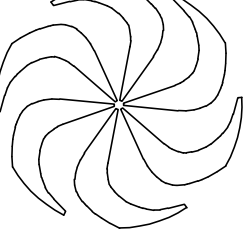
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CALGARY, AB T2R 1M1

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		REV	DATE	REVISION DESCRIPTION
DRAWN	A.BALCHI			
CHECKED	Z.PULJIC			
WR #		PLOT SCALE	N.T.S.	JOB NO.
APPROVED		DATE	10/11/18	0168-146-18
		DWG NO.	19419	REV. C

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INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)

STEAM SCHEMATIC - MECHANICAL

R1- LOWER ROOF

LEVEL 2

LEVEL 1 / INTERSTITIAL

GROUND

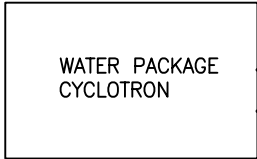
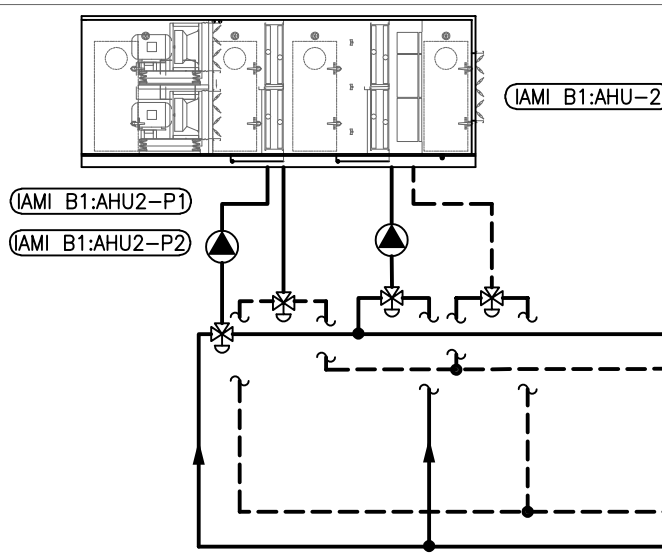
BASEMENT LEVEL 1

BASEMENT LEVEL 2

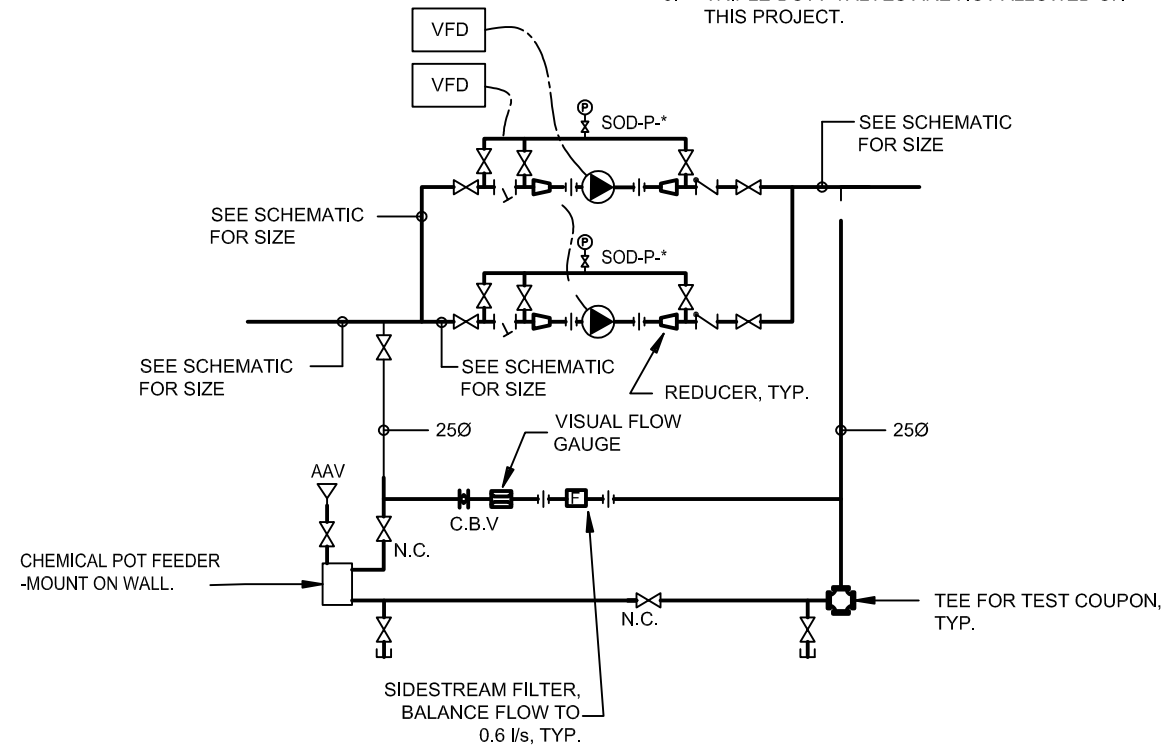
TO GROUND FLOOR REHEAT COILS.
REFER TO FLOOR PLAN LAYOUT FOR
LOCATION AND QUANTITIES

TO B1 LEVEL REHEAT COILS. REFER
TO FLOOR PLAN LAYOUT FOR
LOCATION AND QUANTITIES

TO B2 LEVEL REHEAT COILS. REFER
TO FLOOR PLAN LAYOUT FOR
LOCATION AND QUANTITIES

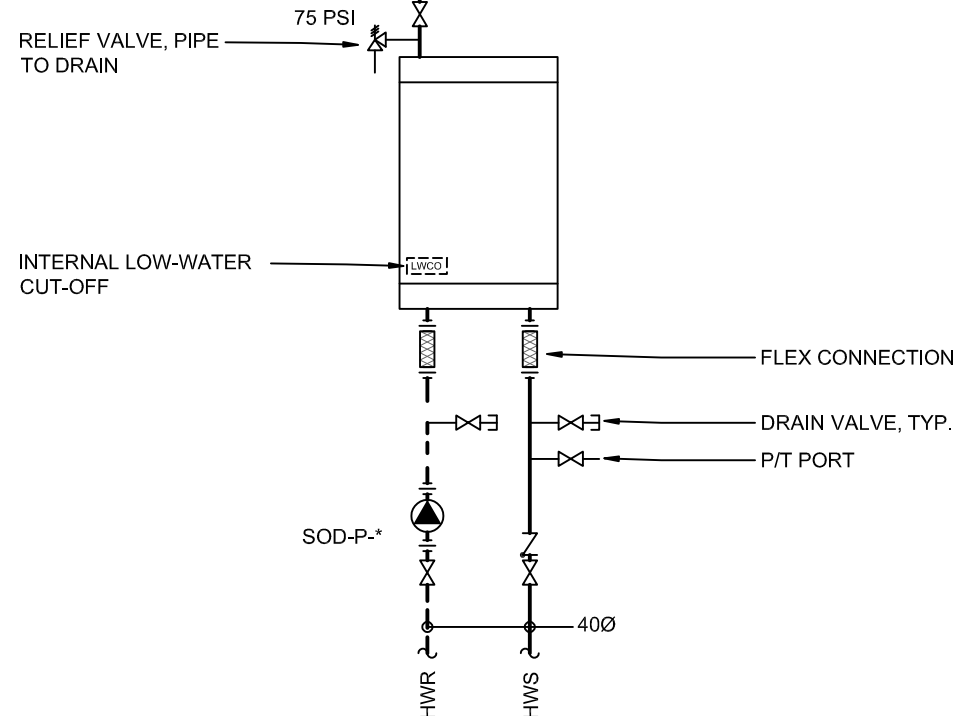


- NOTES:
1. ALL PUMP VALVES & STRAINERS TO BE LINE SIZE.
 2. SUCTION DIFFUSER MAY BE USED IN LIEU OF INLINE STRAINER
 3. TRIPLE-DUTY VALVES ARE NOT ALLOWED ON THIS PROJECT.



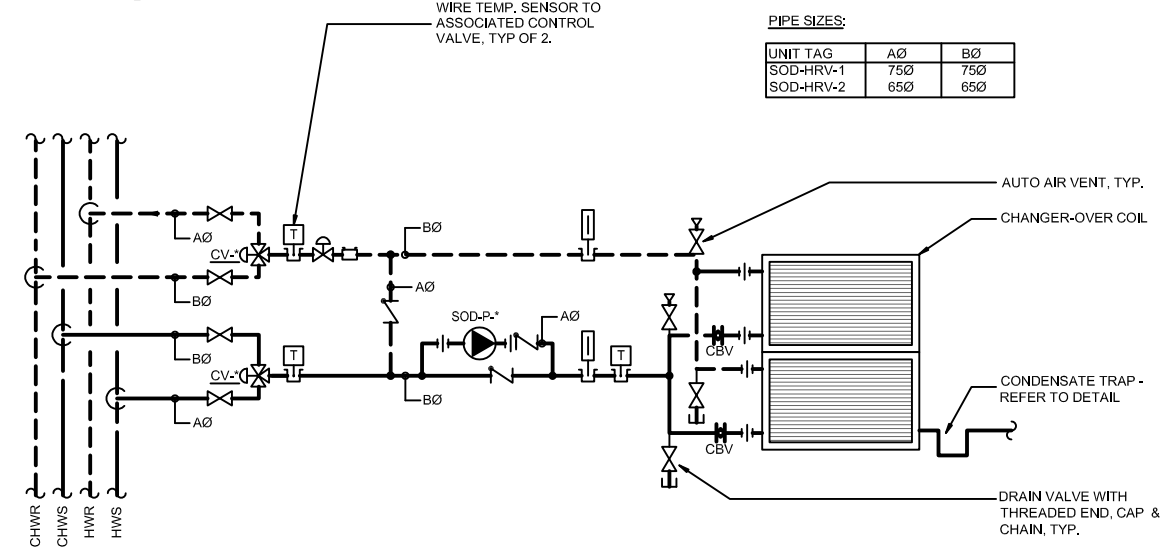
1 PARALLEL PUMP PIPING SCHEMATIC

SCALE: NTS



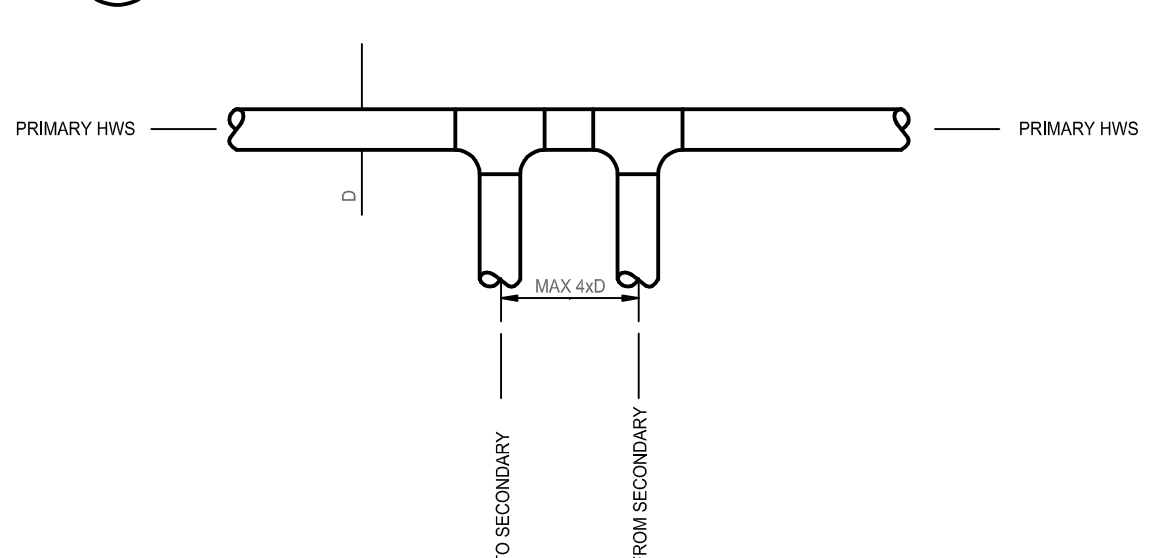
2 CONDENSING BOILER PIPING SCHEMATIC

SCALE: NTS



3 AHU-1A/B&AHU-2 COIL PIPING SCHEMATIC

SCALE: NTS



4 CLOSE-SPACED TEES PIPING DETAIL

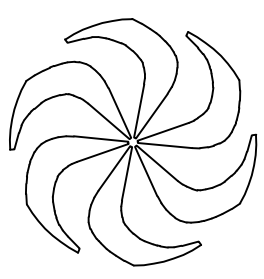
SCALE: NTS

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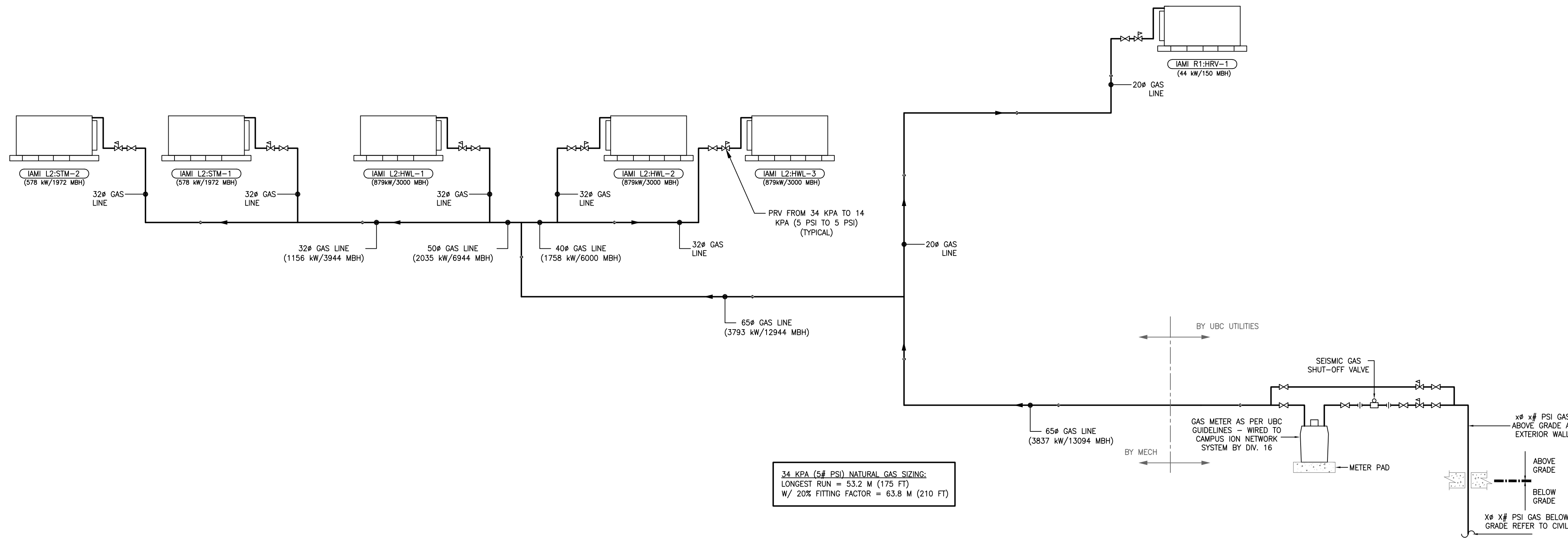
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CHECKED Z.PULJIC
WR #
APPROVED

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HEATING AND COOLING PLANTS SCHEMATIC - MECHANICAL			
PLOT SCALE	N.T.S.	JOB NO.	0186-146-18
DATE	10/11/18	DWG NO.	19420
REV.	C		



34 KPA (5# PSI) NATURAL GAS SIZING:
LONGEST RUN = 53.2 M (175 FT)
W/ 20% FITTING FACTOR = 63.8 M (210 FT)

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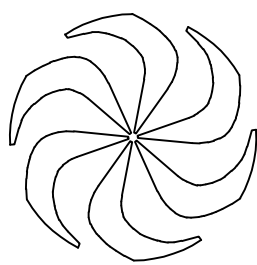
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INSTITUTE FOR ADVANCED MEDICAL ISOTOPES (IAM)
GAS SERVICE SCHEMATIC - MECHANICAL

PLOT SCALE N.T.S.
DATE 10/11/18

JOB NO.
018-146-18

DWG NO.
19421

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C