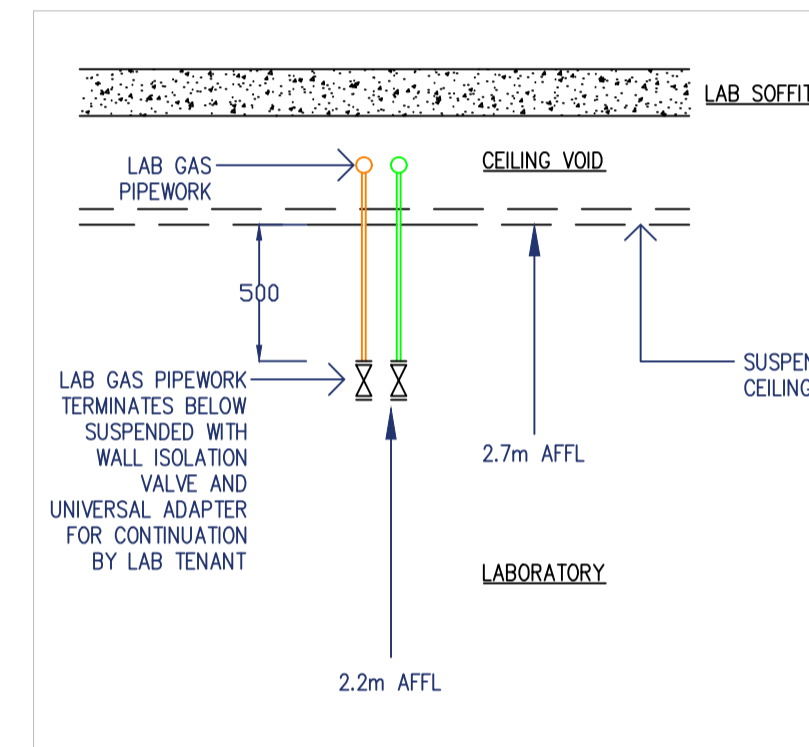


NOTES:

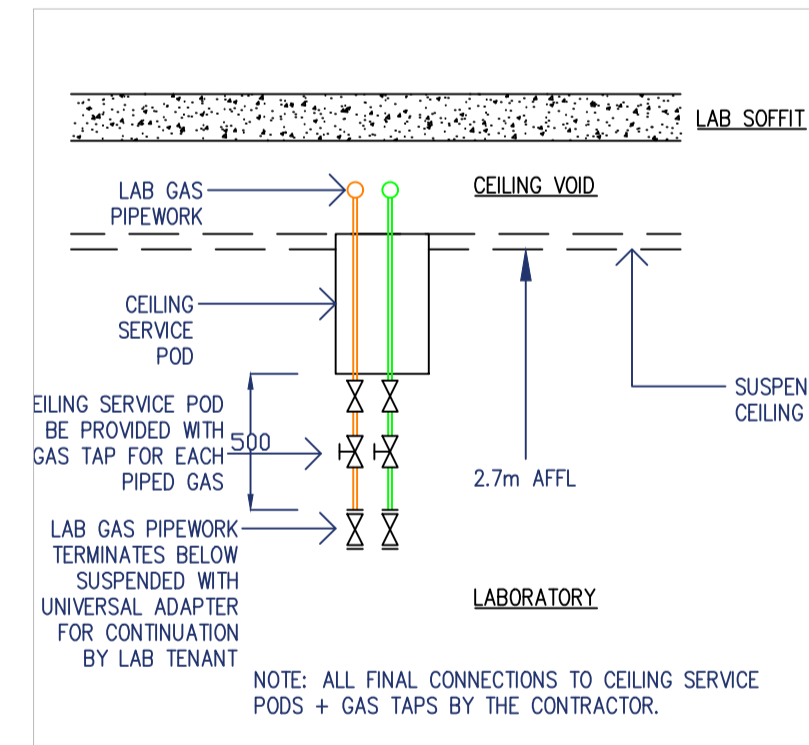
- DO NOT SCALE FROM THIS DRAWING
- ALL LAB GAS SERVICES ARE CONTRACTOR DESIGN PORTION (CDP).
- IN THE ABSENCE OF ANY LAB EQUIPMENT DETAILS THE GAS DESIGN SHALL BE BASED ON THE FOLLOWING FLOW TO EACH/EVERY CSP
 - COMPRESSED AIR: 60-80 LITRES/MIN.
 - NITROGEN: 8-10 LITRES/MIN.
 - OXYGEN: 8-10 LITRES/MIN.
 - CARBON-DIOXIDE: 8-10 LITRES/MIN.
- FOR LAB GAS PIPEWORK SIZING, 50% DIVERSITY CAN BE APPLIED WHERE APPROPRIATE.
- THE CONTRACTOR MUST APPOINT AN APPROPRIATELY QUALIFIED SPECIALIST TO UNDERTAKE THE DESIGN.
- ANY LAB GASES SYSTEM STORED INTERNALLY MUST BE HOUSED WITH PROPRIETARY FIRE-RATED ENCLOSURES
- 2 NO. GAS DETECTION CONTROL PANELS SHALL BE PROVIDED FOR EACH FLOOR, ONE FOR THE NORTH DEMISE AND ANOTHER FOR THE SOUTH DEMISE.
- EACH LABORATORY WILL HAVE A BEACON SOUNDER AT THE ENTRANCE TO AND WITHIN THE LABORATORY AREA ALONG WITH OXYGEN AND CARBON DIOXIDE SENSORS. IN THE EVENT OF SENSORS REACH AMBER OR RED SET POINTS, THE BEACON SOUNDRERS WILL BE ACTIVATED AND THE GAS SUPPLY AT THE MANIFOLD WILL BE AUTOMATICALLY ISOLATED.
- EACH GAS BOTTLE STORE WILL HAVE A BEACON SOUNDER AT THE ENTRANCE TO AND WITHIN THE LABORATORY AREA ALONG WITH OXYGEN AND CARBON DIOXIDE SENSORS. IN THE EVENT OF SENSORS REACH AMBER OR RED SET POINTS, THE BEACON SOUNDRERS WILL BE ACTIVATED AND THE GAS SUPPLY AT THE MANIFOLD WILL BE AUTOMATICALLY ISOLATED.
- ALL GAS DETECTION WIRING WILL BE UNDERTAKEN BY THE LAB GAS SPECIALIST

LEGEND:

- HOUSE GAS (COPPER)
- SPECIALIST BOTTLE GAS (STAINLESS STEEL)
- ISOLATING VALVE
- OXYGEN DEPLETION SENSOR
- CARBON-DIOXIDE SENSOR
- CSP
- CEILING SERVICE POD
- GAS PIPEWORK TERMINATION BELOW CEILING AT WALL BENCH



DETAIL 'A': LAB GAS PIPEWORK TERMINATION ABOVE BENCH (NTS)



DETAIL 'B': LAB GAS PIPEWORK CEILING SERVICE POD TERMINATION (NTS)

S4 - P02	14/02/2024	STAGE 3 CAT-B ISSUE	AG	MT
S4 - P01	26/01/2024	STAGE 3 CAT-B ISSUE	AG	MT
SUIT-REV	DATE	DESCRIPTION	DRN	CHK
STATUS				

STAGE 3

THIS DRAWING IS COPYRIGHT. DO NOT SCALE FROM DRAWING. THE CONTRACTOR AND THEIR SUB-CONTRACTORS ARE TO VERIFY ALL DIMENSIONS ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE.

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PROJECT INFORMATION

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PROJECT: DEVELOPMENT LTD
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DRAWING INFORMATION

DRAWING TITLE: MECHANICAL SERVICES
FIRST FLOOR
CAT-B LAB GAS LAYOUT

DESIGNED BY	AG	DATE	Jan. 2024
DRAWN BY	AG	KJT JOB No.	L3221
SCALE	1:100 @ A1		
JOB CODE	L3221	ORIGIN-VOL-LEVEL-TYPE-ROLE-CLASS NUMBER	SUIT-REV
	KJT-01-01-DR-M-5410		S4-P02

