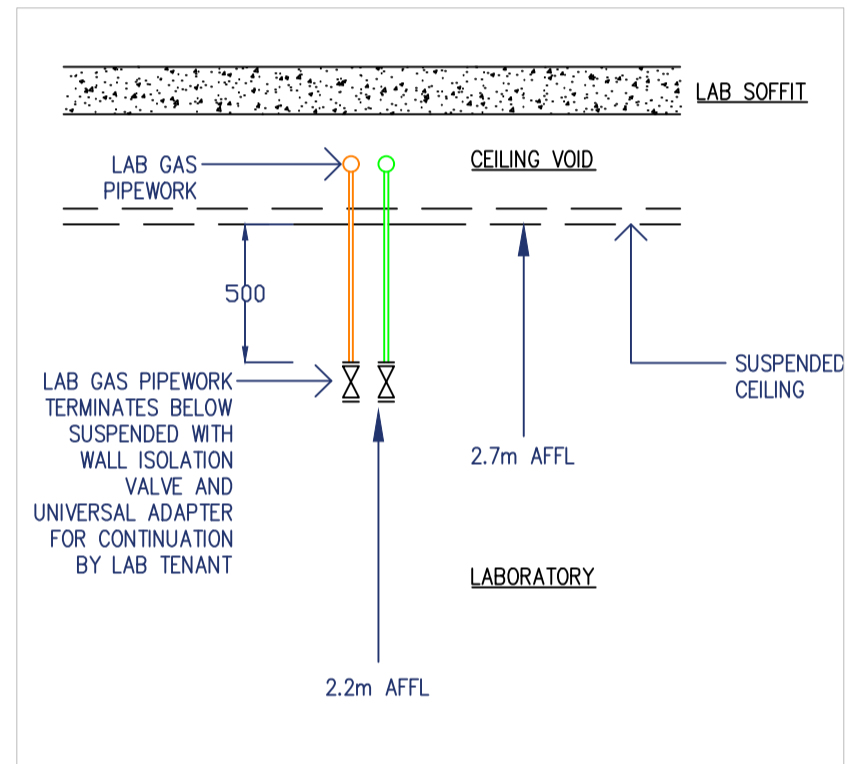


VENTILATED GAS BOTTLE STORE TO INCLUDE  
4 NO. FIRE RATED GAS BOTTLE STORAGE  
CABINETS AND CO2 / OXYGEN DEPLETION  
SENSORS WITH LOCAL AUDIBLE AND VISUAL  
ALARMS

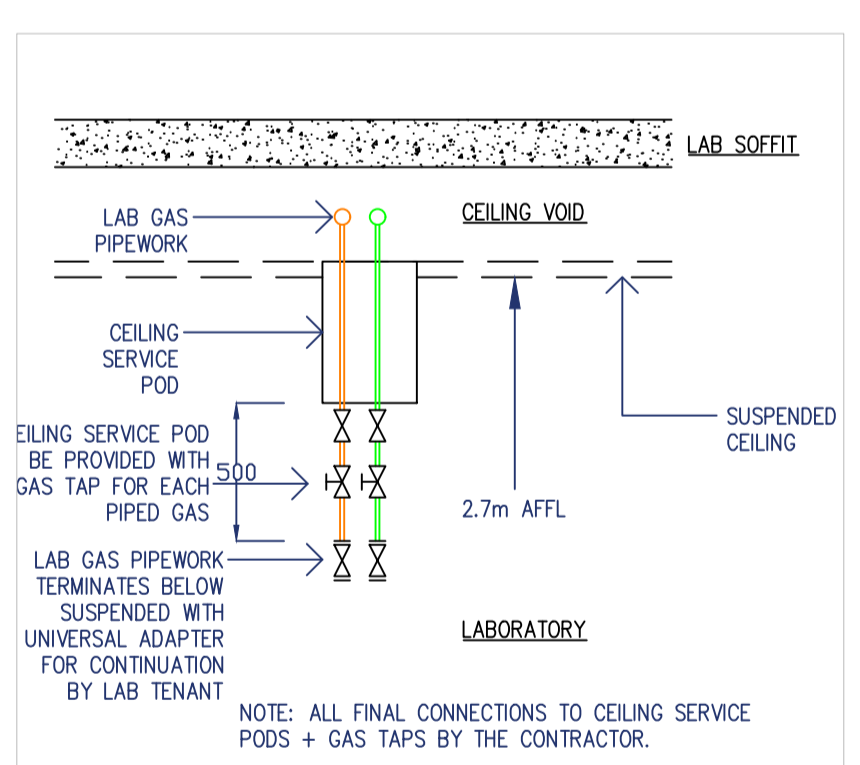
LAB 'HOUSE' COMPRESSED AIR  
CAPPED FOR  
FUTURE  
CONNECTIONS

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

**STAGE 3**

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PROJECT INFORMATION			
CLIENT	OXFORD VICTORIA HOUSE		
PROJECT	DEVELOPMENT LTD LONDON, WC1B 4DA		
DRAWING INFORMATION			
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DESIGNED BY	AG	DATE	Jan. 2024
DRAWN BY	AG	KJT JOB No.	
SCALE	1:100 @ A1		L3221
JOB CODE	ORIGIN-VOL-LEVEL-TYPE-ROLE-CLASS NUMBER	SUIT-REV	
L3221	KJT-02-06-DR-M-5410	S4-P01	