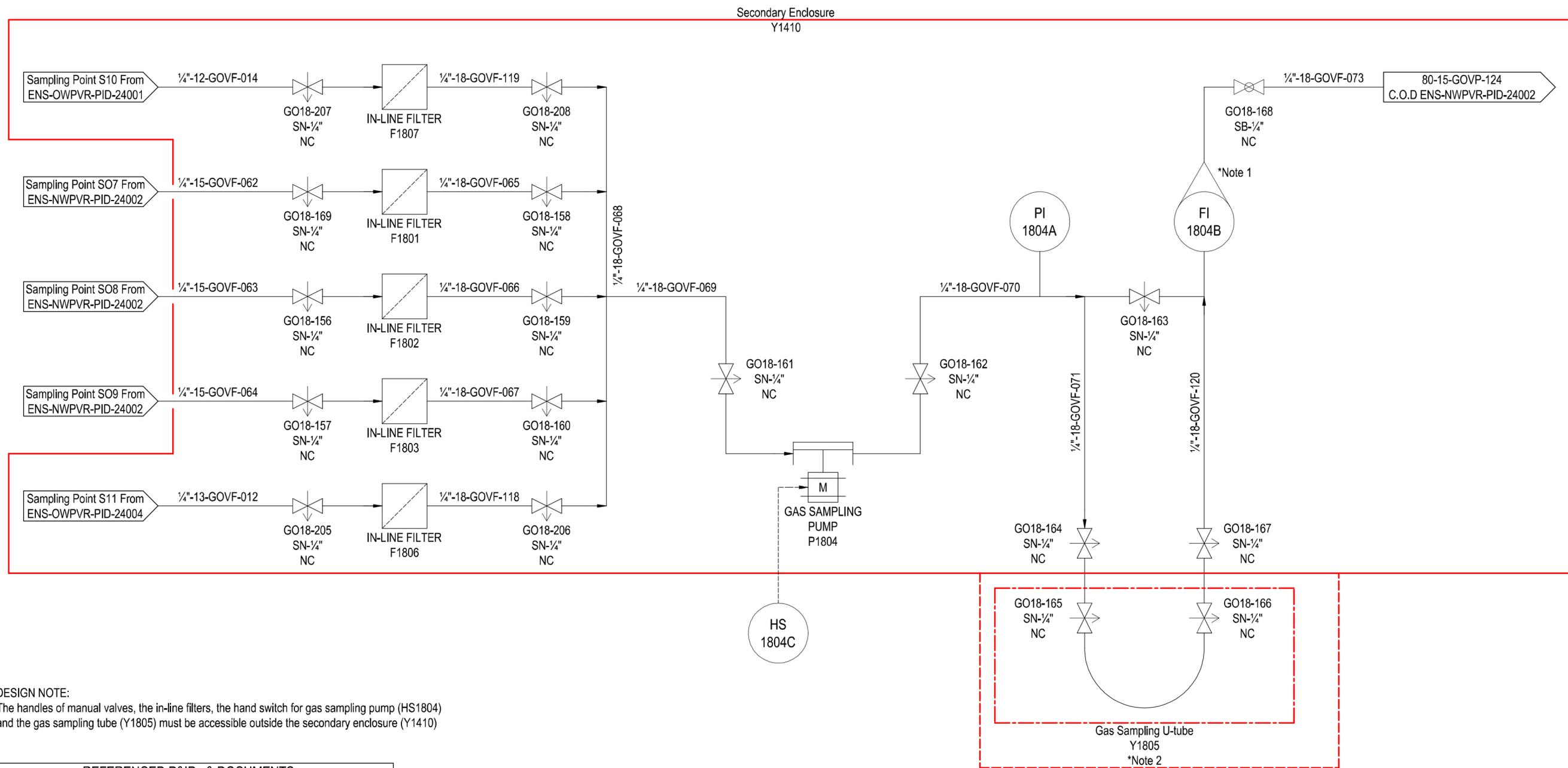


- NOTES:
1. Rotameter with integrated needle valve for flow control and creating pressure into Y1805
  2. Gas Sampling U-tube is located inside a box that is an extension of the secondary enclosure for easy access for personnel  
The box is open at all times to the secondary enclosure at the back of the box. Valves GO18-165 and GO18-166 are part of the gas sampling tube assembly.  
The negative pressure inside the secondary enclosure provides continuous suction through the box from the surrounding laboratory.  
This ensures that any gas released at the sampling tube is drawn into the enclosure to limit operator exposure during sampling.



DESIGN NOTE:  
The handles of manual valves, the in-line filters, the hand switch for gas sampling pump (HS1804) and the gas sampling tube (Y1805) must be accessible outside the secondary enclosure (Y1410)

REFERENCED P&IDs & DOCUMENTS

- 1.) ENS-NWPVR-PID-24002 - NW Plasgas demo facility sub-system 15
- 2.) ENS-OVPVR-PID-24001 - P&ID Plasma gasification system
- 3.) ENS-OVPVR-PID-24004 - P&ID Primary solids capturing system

FUNC.	NAME	DESIGNATION	SIGNATURE
PRP'D	L.Dlamini	PROCESS ENGINEER	
REVIEW	N.Manilal	PROCESS ENGINEER	
REVIEW	B.M.Khumalo	SENIOR PROCESS ENGINEER	
REVIEW	S.Mngoma	CHIEF MECHANICAL ENGINEER	
REVIEW	G.Manuel	CHIEF ENGINEER CONTROL & INSTRUMENTATION	
REVIEW	W.van den Berg	CHIEF ELECTRICAL ENGINEER	
APPR'D	K.Moodley	CHIEF PROCESS ENGINEER	

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	3.0	Third Revision	L.D	12/03/2025

	PROJECT	NW PLASGAS		
	TITLE	P&ID DIAGRAM		
SCALE - NTS	DRG.No.	ENS-NWPVR-PID-24015		
UNITS - N/A	SHEET	1 OF 1	TEAMCENTRE No. -	

ENS-NWPVR-PID-24015