

Subsystem Schematic

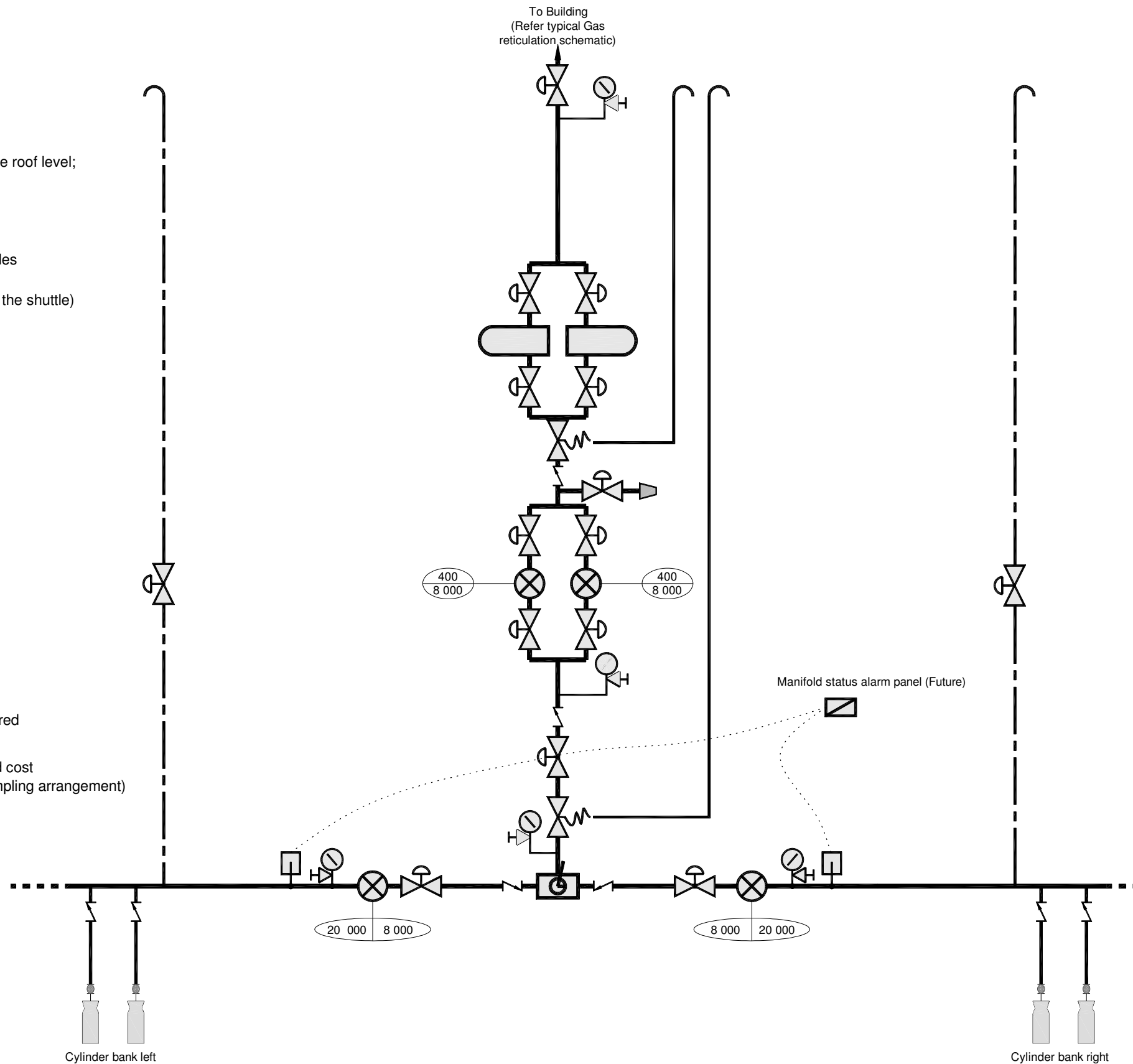
Legend:

- Ball valve
- Pressure gauge with valve
- Non return valve
- Safety valve piped to atmosphere 1500mm above roof level; all included in manifold cost
- Pressure reducing regulator
- Pressure reducer in/outlet pressure. Outlet pressure as per 'Line Pressure' in Schedules
- Automatic changeover shuttle (Individual control valves in each leg may replace the shuttle)
- Manual changeover block
- Contact gauge Normally Closed (NC) (Provision only; for future fitting of gauge)
- 4-Way valve
- Emergency outlet point piped to atmosphere 1500mm above roof level
- Diaphragm valve
- Globe valve
- Union
- Filter to Baseline Purity required
- 3-Way solenoid valve or rotary ball valve with modulating actuator, as specified - not required
- Sampling arrangement c/w fittings for connection of sample cylinder. All part of manifold cost (Provision on manifold for future connection of sampling arrangement)
- Manifold Status Alarm panel (Future)
- Purge line c/w purging assembly at manifold; all included in manifold cost
- Emergency shut off and pressure relief discharge to atmosphere, 1500mm (min) above roof level. Outlet fitted with vermin/insect proofing suitable for the gas applicable

NOTE:

1. This typical schematic drawing has to be read in conjunction with the specification for 'GAS MANIFOLD' in the tender document, as well as the schedules on the gas storage drawings, for all related material, pressure, flow rates, etc.

2. Refer to the British Compressed Gases Association's Codes of Practice for the design of gas specific manifolds, with special reference to Oxygen and Acetylene where applicable



Revisions:

Rev	Description	Date	By
0	Issued for tender	19.07.2019	DM

This drawing was based on the Architects Drawing No: N/A

GAUTENG
S&P House, Cnr. Lenchen Avenue
North & South Street, Centurion
PO Box 7270, Centurion, 0046,
RSA

drawing@dgm-gauteng.co.za
info@dgm-gauteng.co.za
WESTERN CAPE
Tel: +27 (0) 21 423-6955/6

KWAZULU NATAL
Tel: +27 (0) 31 202-6244/6394

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Project:
**CSIR
KLOPPERSBOS
LABORATORY GAS
INSTALLATION**

Drawing Title:
**Typical Manual
Change Over
Gas Manifold
Schematic**

Checked		Passed	
Quality SE	Design CVN	PR Eng. CVN	
Designed CVN	Drawn DM	Date 19.07.2019	Size A3
		Scale NTS	

Drawing Status:
Issued for Tender

Project Number	Division	Service
191013	M	G
Drawing Number		Revision
110		0