



- LEGEND:**
- EX. HYDROGEN
 - EX. HELIUM
 - EX. OXYGEN
 - EX. NITROGEN
 - EX. ARGON / HELIUM MIX
 - EX. ARGON
 - EX. CARBON MONOXIDE
 - EX. CARBON DIOXIDE
 - EX. METHANE
 - EX. L.P.G.
 - NEW HYDROGEN FOR MeOH Reactor / PCT Pro / Charge / Discharge Demo
 - NEW HYDROGEN / CO2 MIX FOR MeOH Reactor
 - NEW N2 FOR MeOH Reactor
 - NEW MIXTURE FOR PCT Pro / Charge / Discharge Demo
 - NEW EMERGENCY GLOBE TYPE ISOLATING VALVE
 - NEW FLASHBACK ARRESTOR FOR HYDROGEN

- NOTES:**
- THE LATEST AMENDMENTS OF THE FOLLOWING SHALL BE COMPLIED WITH:
- THE STANDARD REGULATIONS FOR WIRING OF PREMISES ISSUED BY THE SOUTH AFRICAN INSTITUTE OF ELECTRICAL ENGINEERS.
 - MACHINERY AND OCCUPATIONAL SAFETY ACT NO. 85 OF 1993 AS AMENDED.
 - SANS 10087: PART 1, 2, 3, 7 OF 2000 LATEST AMENDMENT.
 - SANS 10260: PART 1, 2, 3, 4 OF 2000 LATEST AMENDMENT.
 - ALL PIPEWORK SHALL BE COLOUR CODED ACCORDING TO SANS 10140-3 OF 2010.
 - WARNING NOTICES SHALL BE POSITIONED ADJACENT TO THE VALVES CLEARLY AND PROMINENTLY STATING THAT THE VALVES SHALL NOT BE CLOSED BY UNAUTHORISED PERSONS.
 - PRESSURE GAUGES SHALL BE OF THE BOURDON DIAL TYPE.
 - ALL TESTING OPERATIONS SHALL BE WITNESSED BY THE ENGINEER.
 - GASBANK IS TO BE FURNISHED WITH 1 x 9 KG DCP FIRE EXTINGUISHERS IN A LOCKABLE CABINET WITH BREAK GLASS.
 - ALL GAS PIPES SHALL BE SLEEVED WHERE PIPES PASS THROUGH WALLS AND SLABS, AND SEALED WITH SUITABLE FLIE GAUZE.
 - ALL RELEVANT SAFETY SIGNS MUST BE MOUNTED AT THE GASBANK. NO NAKED FLAME, NO SMOKING FLAMMABLE AND DANGER.
 - DUE TO THE HIGH LINE PRESSURES INVOLVED ONLY SUITABLE QUALIFIED GAS CONTRACTORS FOR HIGH PRESSURES MAY PERFORM THE LABORATORY GAS INSTALLATION.
 - NON FLAMMABLE GASES : 191.91 KG
 - FLAMMABLE GASES: 2.22 KG

GROUND FLOOR PLAN
scale 1: 100

FIRST FLOOR PLAN
scale 1: 100

GAS CONTROL PANEL

REV.	DESCRIPTION	BY	DATE

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CLIENT/PROJECT
C.S.I.R. BRUMMERIA, PRETORIA

TITLE
PROPOSED LABORATORY GAS INSTALLATION FOR HySA AT BUILDING NO.15

SCALE: 1:100 : 1:50

NAME	DATE	REF. NO.
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