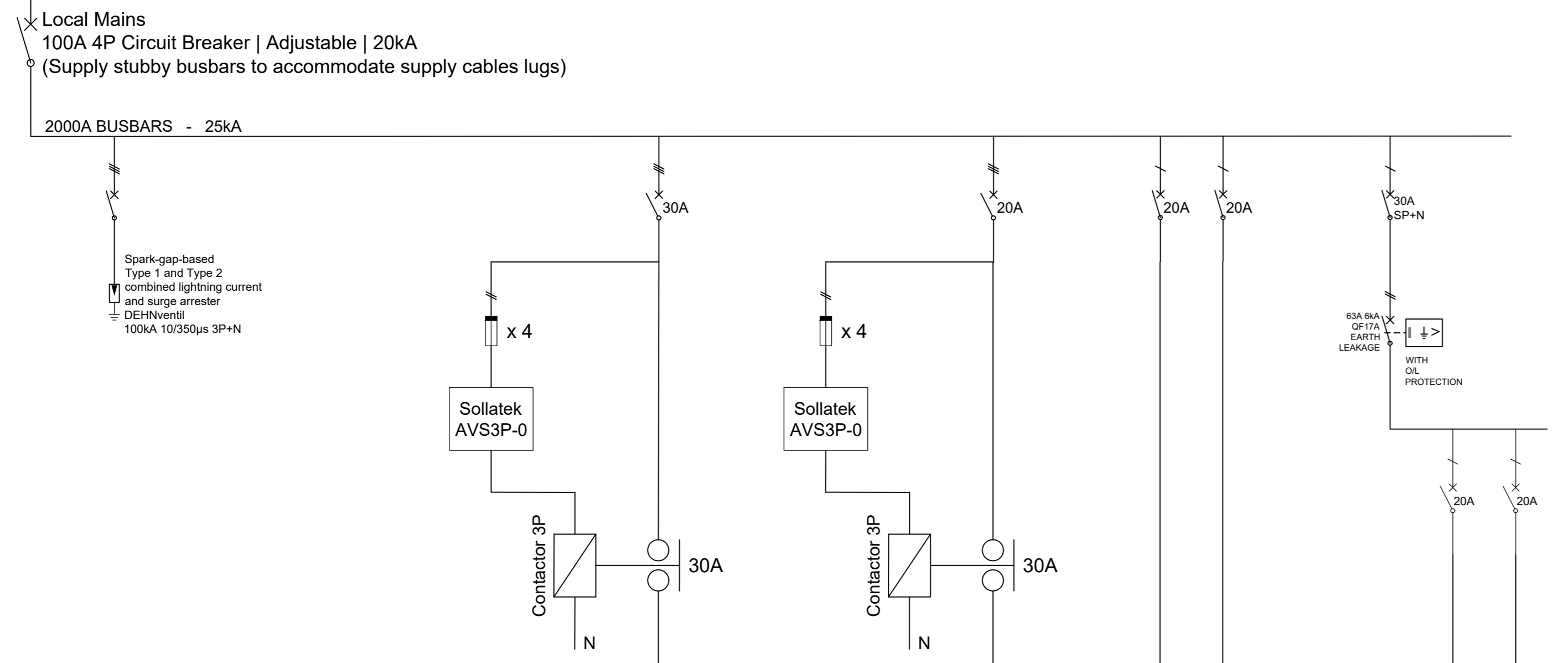


**PACOFs**  
**DB-AC-S9 [HVAC MCC] (EMERGENCY POWER)**  
 (Indoors - Wall Mounted)

Supply from: Main LV Panel  
 Supply Cable(s):  
 Existing: 1 x 50mm<sup>2</sup> x 4-core 3-Phase PVC/SWA/PVC/SWA  
 Existing: 1 x 50mm<sup>2</sup> PVC Covered Copper Earth Wire

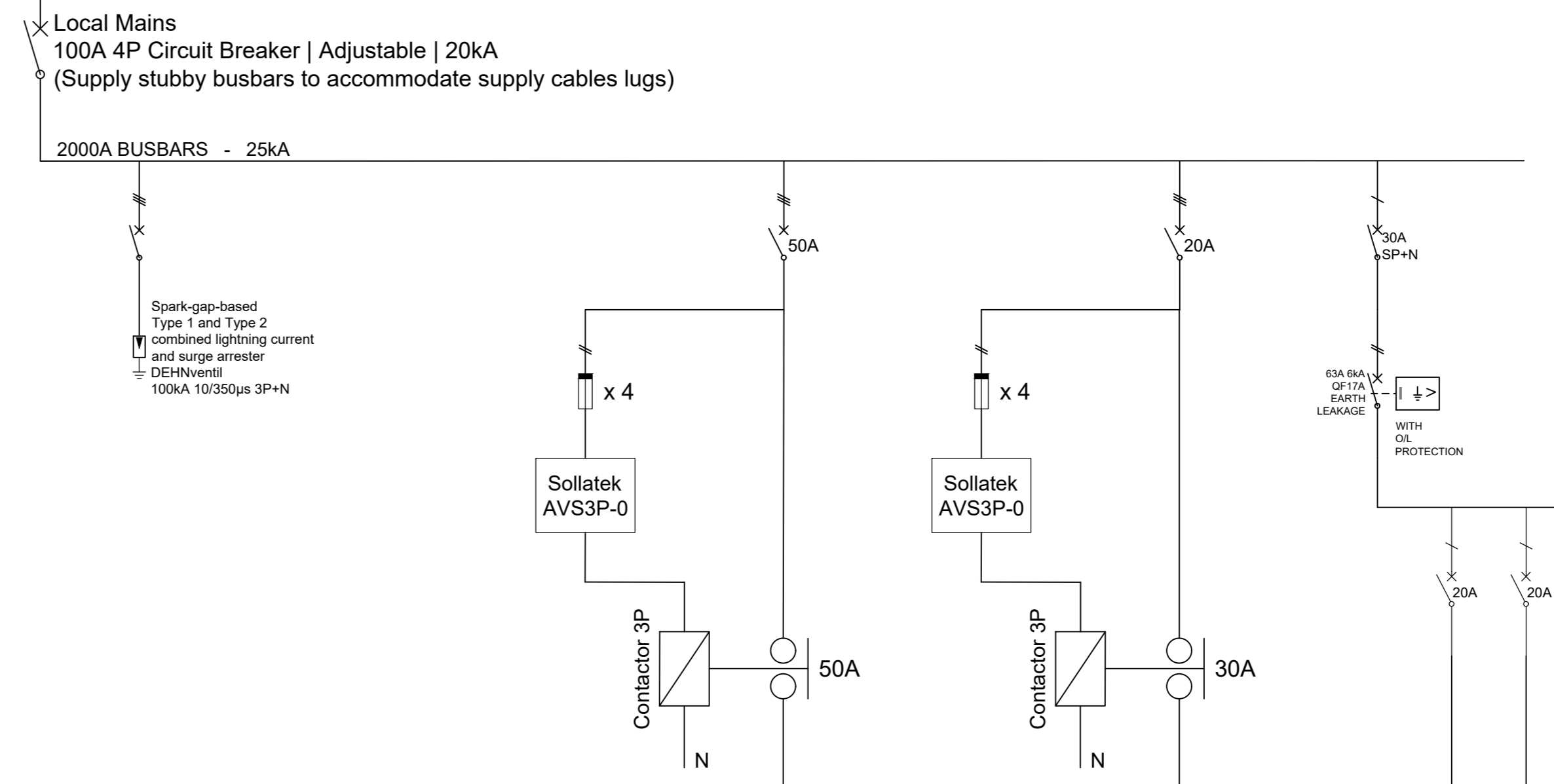


Circuit Number (Labels)	LOCAL MAINS	SURGE ARRESTOR	Sollatek 1	Contactor	AC-S9 (Roof)	Sollatek A-2	Contactor	FF-S3	PN-1	PN-2	PN-1	PN-2
Conductor (mm <sup>2</sup> )	1 x 50	6	2.5	2.5	6	2.5	2.5	4	4	4	4	4
Phase	3+N	3+N	3+N	3+N	3+N	3+N	3+N	3+N	1	1	1	1
Description	LOCAL MAINS	SURGE ARRESTOR	Sollatek AV3P-0	Contactor	AC-S9 (Roof)	Sollatek AV3P-0	Contactor	FF-S3	Plug	Spare	Plug	Spare

16A Switched Socket Outlet to be provided in weatherproof box on outside of DB

**PACOFs**  
**DB-AC-S10 [HVAC MCC] (EMERGENCY POWER)**  
 (Indoors - Wall Mounted)

Supply from: Main LV Panel  
 Supply Cable(s):  
 Existing: 1 x 50mm<sup>2</sup> x 4-core 3-Phase PVC/SWA/PVC/SWA  
 Existing: 1 x 50mm<sup>2</sup> PVC Covered Copper Earth Wire



Circuit Number (Labels)	LOCAL MAINS	SURGE ARRESTOR	Sollatek 1	Contactor	AC-S10 (Roof)	Sollatek A-2	Contactor	AC-S10 (Local)	PN-1	PN-2	PN-1	PN-2
Conductor (mm <sup>2</sup> )	1 x 50	6	2.5	2.5	16	2.5	2.5	4	4	4	4	4
Phase	3+N	3+N	3+N	3+N	3+N	3+N	3+N	3+N	1	1	1	1
Description	LOCAL MAINS	SURGE ARRESTOR	Sollatek AV3P-0	Contactor	AC-S10 (Roof)	Sollatek AV3P-0	Contactor	AC-S10 (Local)	Plug	Spare	Plug	Spare

16A Switched Socket Outlet to be provided in weatherproof box on outside of DB

**LEGEND**

SYMBOLS DESCRIPTIONS

- DISTRIBUTION BOARD
- ISOLATOR - 3-POLE - 30A W = ISOLATOR IN WEATHERPROOF BOX
- ISOLATOR - 3-POLE - 45A W = ISOLATOR IN WEATHERPROOF BOX
- SURGE ARRESTORS
- FUSE
- CIRCUIT BREAKER IN DISTRIBUTION BOARD / KIOSK / STUBBY
  - 1-POLE
  - 2-POLE
  - 3-POLE
  - 4-POLE
- CIRCUIT ISOLATOR (DISCONNECTOR) IN DISTRIBUTION BOARD / KIOSK / STUBBY
  - 1-POLE
  - 2-POLE
  - 3-POLE
  - 4-POLE
- DAYLIGHT SWITCH IN CIRCUIT
- HA LIGHT SWITCH ON FRONT PANEL OF DB BOARD

**Notes**

- Do not scale the drawings.
- All dimensions to be verified on site, prior to manufacturing or ordering of equipment.
- The installation shall comply with the requirements of the Occupational Health and Safety Act of 1993.
- Any inclusions shall be brought to the attention of the consulting engineer.
- This drawing, or part thereof, shall not be used for any installation project other than this one.
- All drawings shall be read in conjunction with the specification and standard drawings.
- The positions of equipment is shown schematically on the drawing. The exact positions will be determined on site.

CLIENT APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

FACILITIES MANAGEMENT: \_\_\_\_\_

FACILITIES PLANNING: \_\_\_\_\_

DEPARTMENT HEAD: \_\_\_\_\_

**NOTES**

FOR TENDER

Ix engineers retains the copyright in all intellectual property, including designs and/or documents prepared in terms of this appointment for the project covered by the appointment. The client may use the designs and/or documents for the sole purpose of their intended use on this project only subject to payment for the design having been received. Use for any other purpose, whether or not the design and/or documents have been paid for constitutes an infringement of copyright, and all rights are reserved.

All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

Copyright reserved

**REVISION SCHEDULE**

No	DATE	DESCRIPTION	DRW	CHK

**CONSULTING ENGINEER**

20/20142	2022/09/30
PR No	DATE

**CLIENT**

DESIGNED	CHECKED
JVT	MCH

**ix engineers**  
 Infrastructure Excellence

Genus Laci Office Park | Unit No 3 | 6 CP Hoogenhout Street  
 Langenhovenpark | Bloemfontein | 9330  
 Tel: +27 (0) 51 411 8040  
 www.ixengineers.co.za

**CONSULTANT**

**PACOFs**  
 Bloemfontein Central  
 Department of Sport, Arts and Culture

**CLIENT**

12 FIRST AVENUE  
 BLOEMFONTEIN CENTRAL  
 BLOEMFONTEIN, 9301  
 TEL: (051) 447 7771  
 E-mail: paul@pacofs.co.za

**PROJECT**

BID/HVAC/CAPEX/2/2022  
 PACOFs HEATING,  
 VENTILATION AND AIR  
 CONDITIONING (HVAC)  
 PROJECT

**DRAWING DESCRIPTION**

MCC's  
 SINGLE LINE DIAGRAMS  
 SLD4

**SCALE FOR REDUCED PLAN**

DATE: 2022/09/30 SCALE: NOT TO SCALE ORIGINAL SIZE: A0

DRAWING NUMBER: P301769-E-LA-023 REV: TD