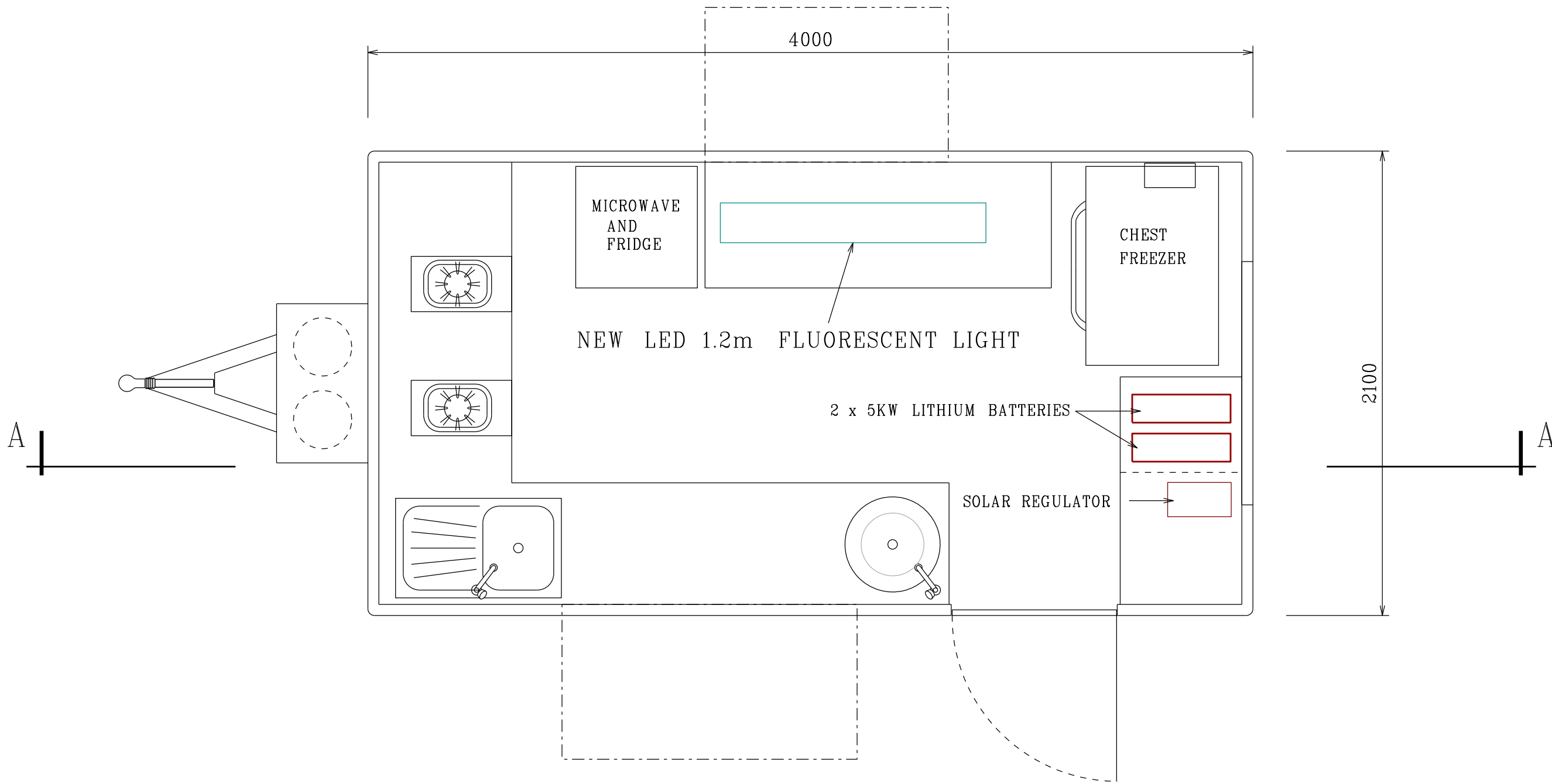
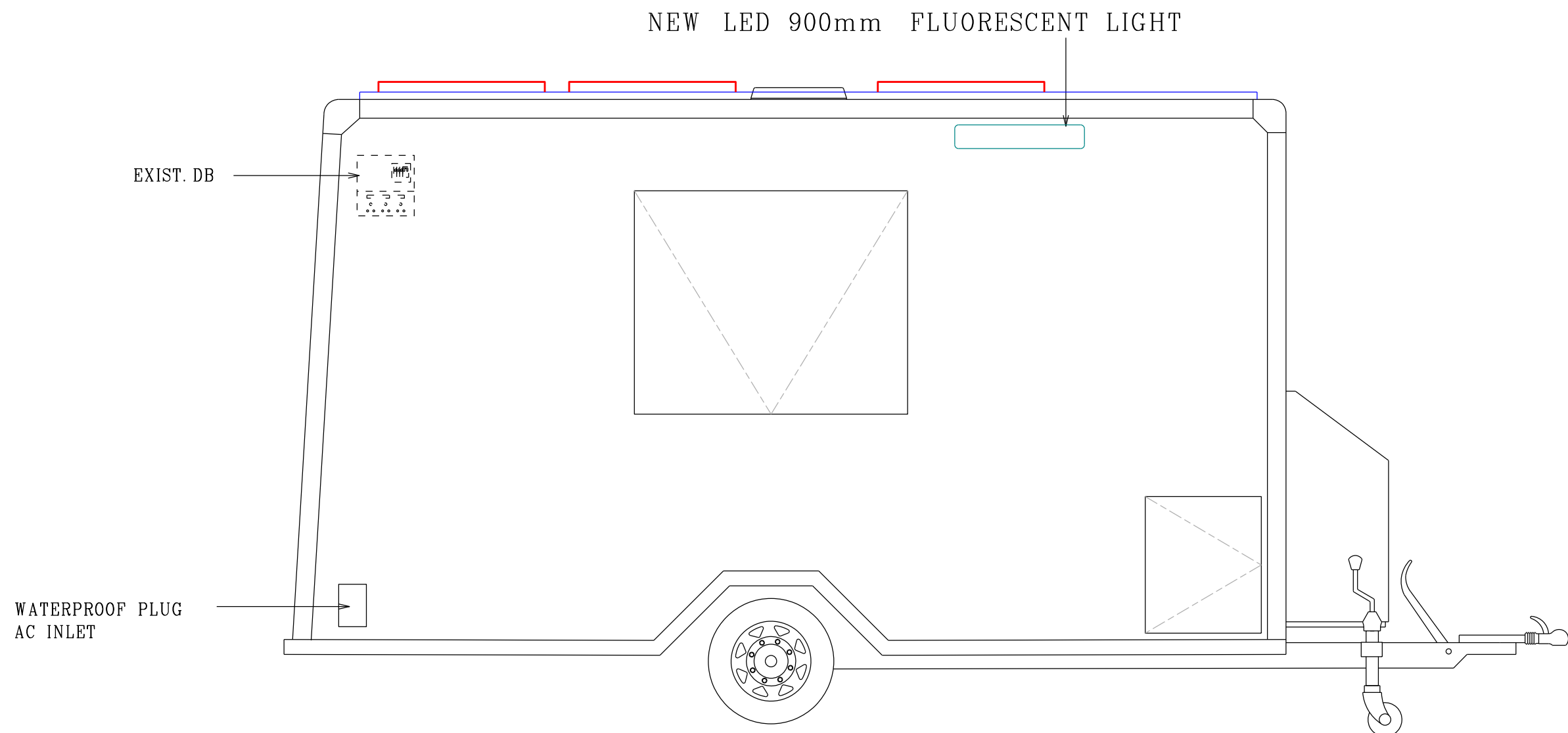
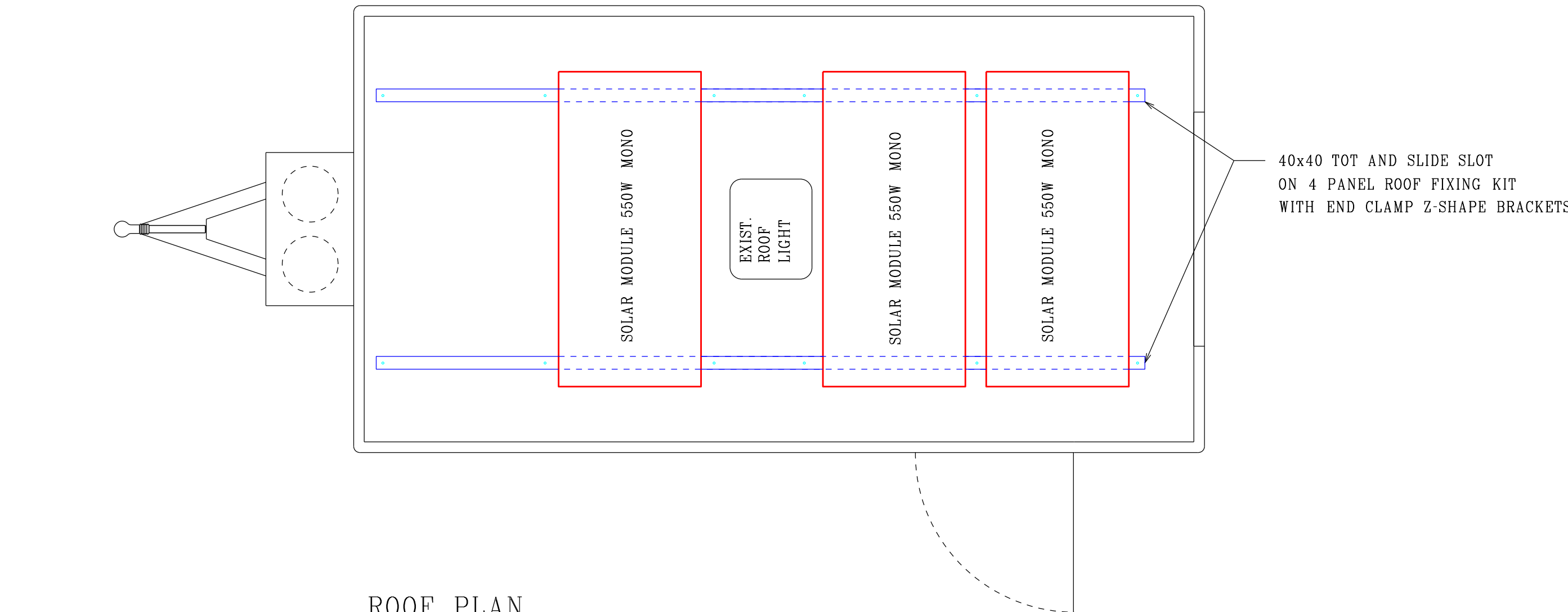




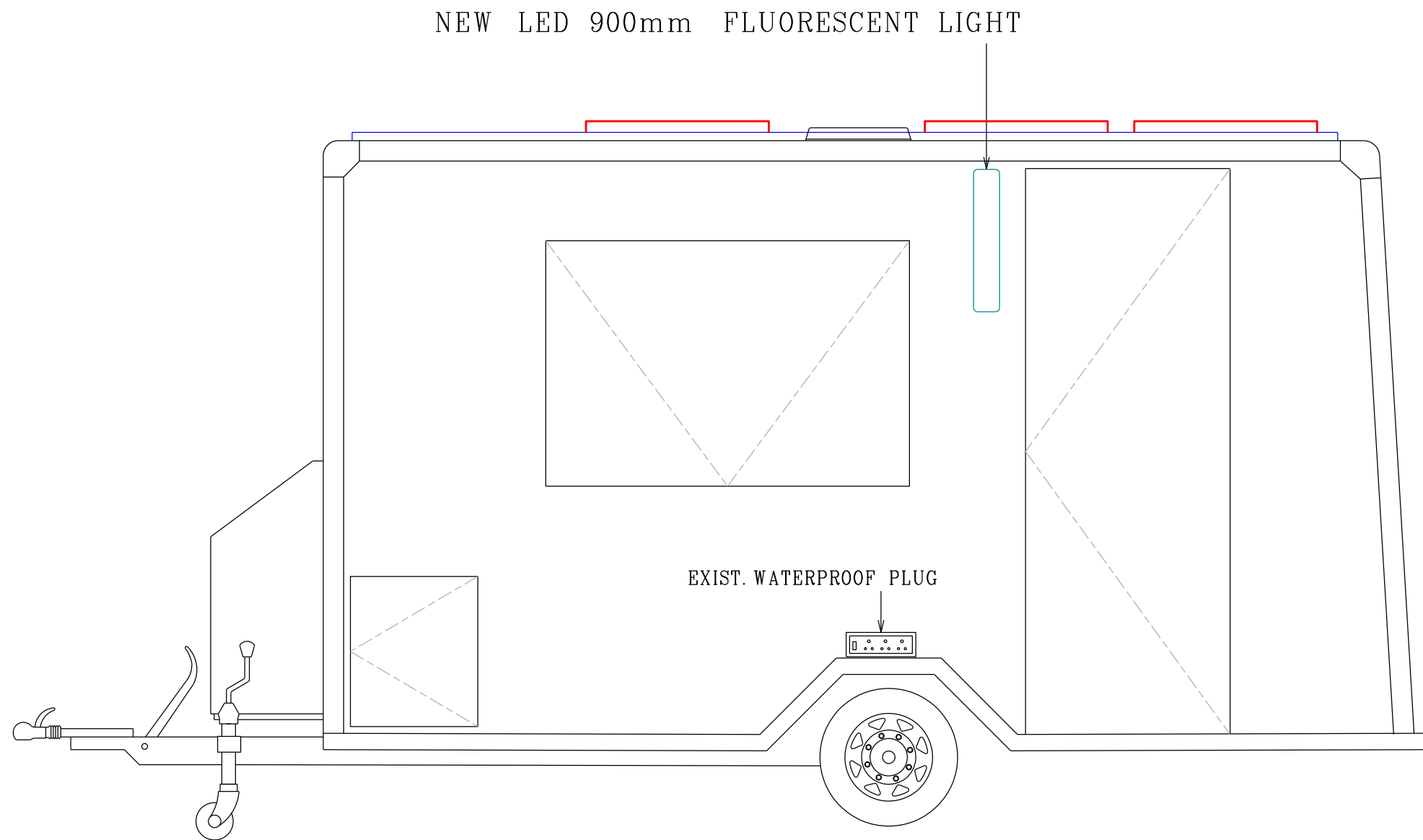
FLOOR PLAN



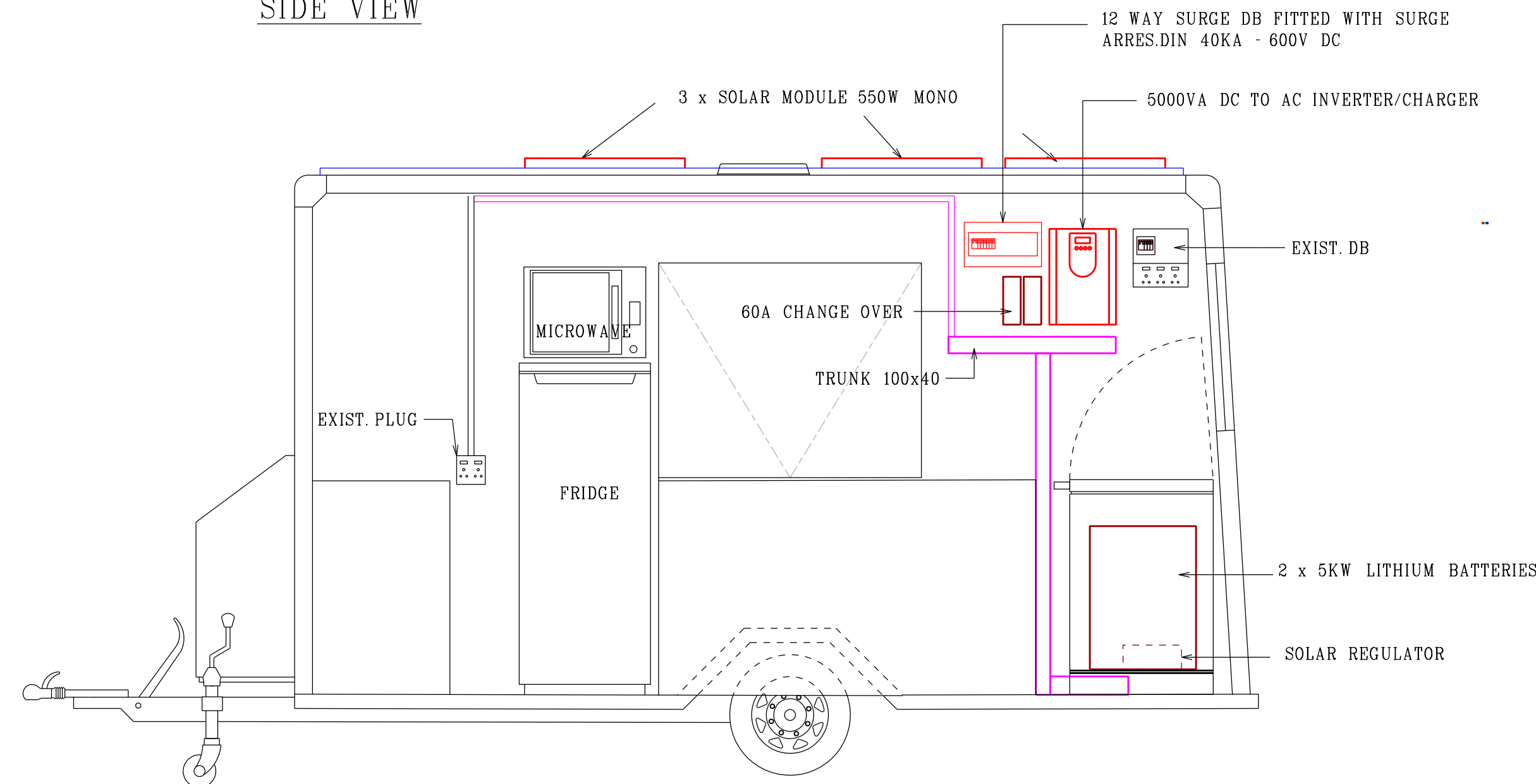
SIDE VIEW



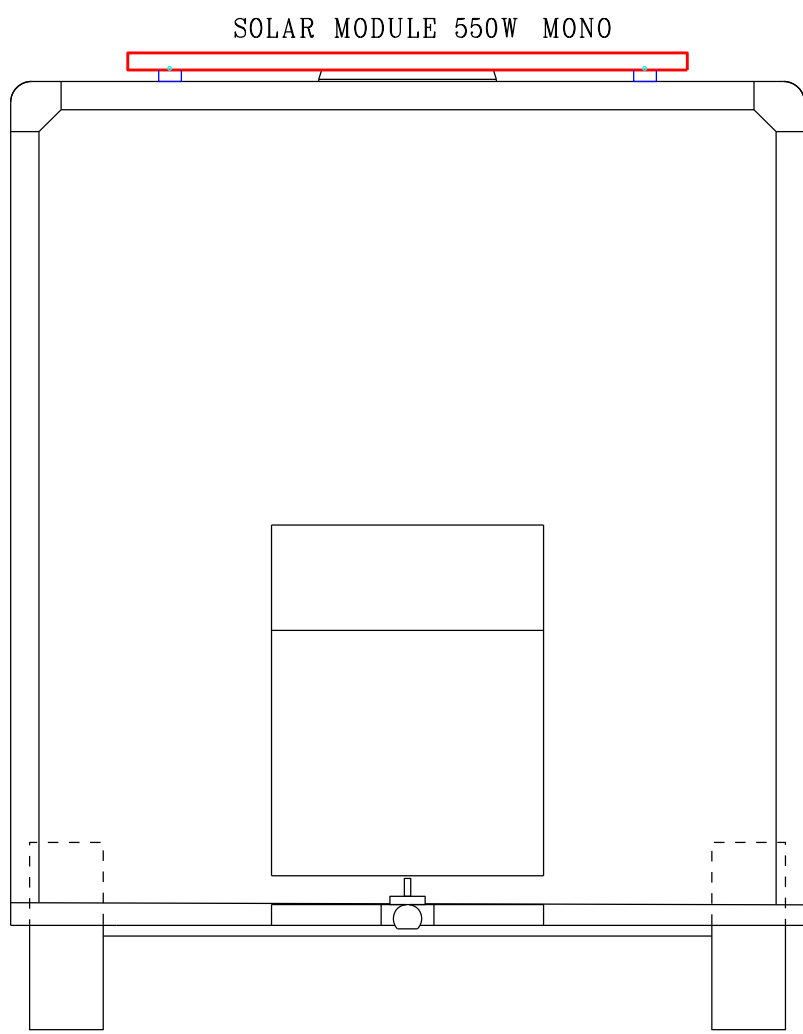
ROOF PLAN



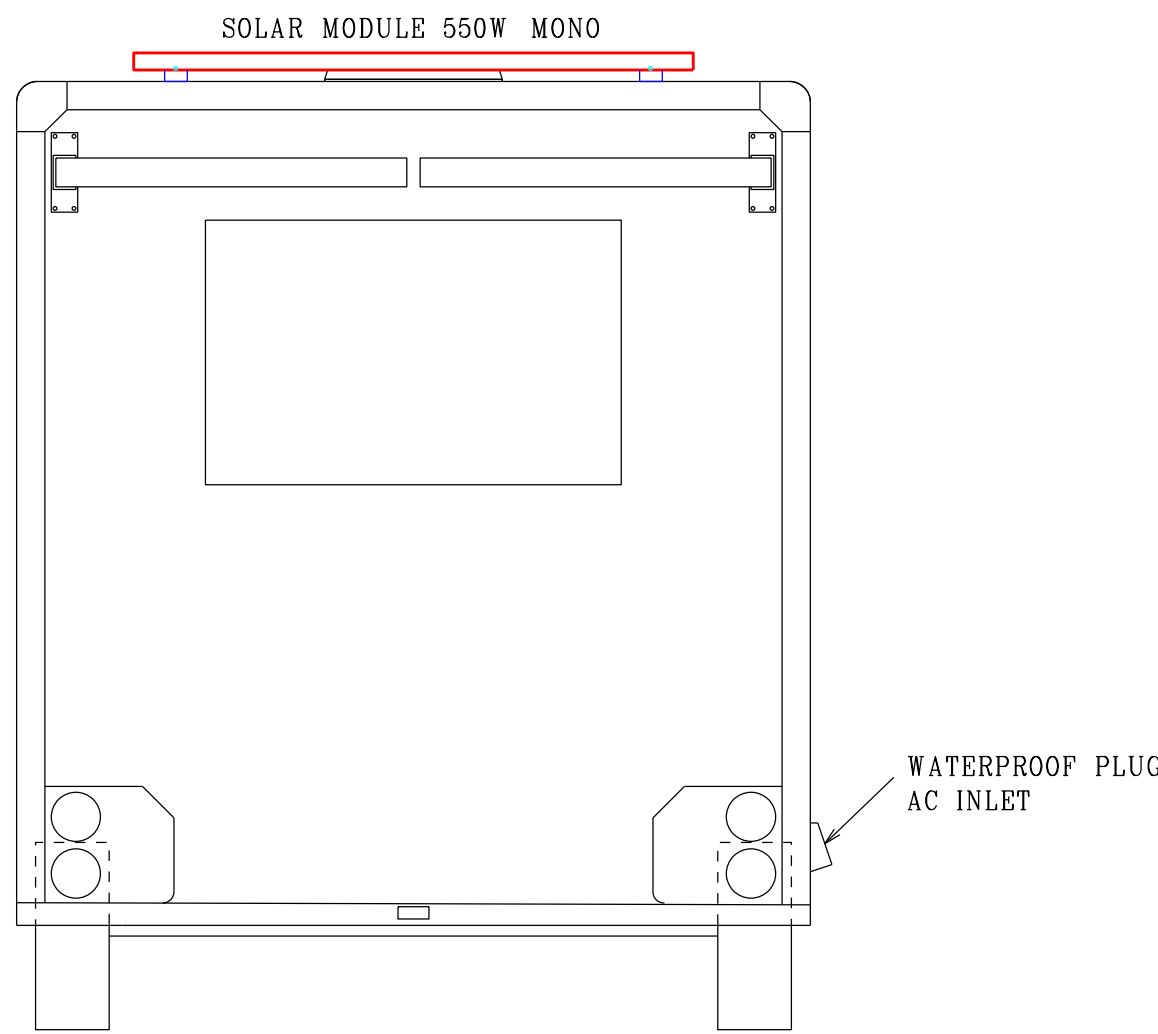
SIDE VIEW



SECTION A-A



FRONT VIEW



BACK VIEW

Power Supply

Design, supply and install a self-sustainable 220Vac power supply to Mobile Kitchen Caravan.

Fitment Specifications

- All major components must be fitted within existing interior cupboards and storage compartments.
- Components must be securely fitted and installed in accordance with industry standards.
- Fitment must allow easy access for removal and maintenance of all components.
- Fitment of component must be in such manner as to not void the manufacturer warranty.
- The final layout of components must be approved by the appointed Cape Winelands Disaster Management Official before installation can commence.

Power Specification

- 5000VA Dc to Ac pure sine wave hybrid inverter/charger.
- 5Kv Lithium Battery Bank with integrated cell balancing, Bluetooth connectivity to monitor cell voltage and temperature.
- Minimum 20A DC to DC charging.
- Solar panels securely mounted on the roof of vehicle (number of panels to be determined by appointed vendor to utilize maximum roof space and harness maximum sun power).
- An integrated plug point must be fitted for future use of portable solar panels.
- A monitoring display must be installed to monitor the state of charge current, charge rate and consumption of the system.
- A suitable BMS (Battery Management System) must be installed and configured with safety parameters and warning alarms recommended by the manufacturer to protect components from damage and prolong life span.
- A waterproof external shoreline plug point to be installed on the exterior of vehicle.
- A USB or USB-C interface is to be supplied to allow connection of a PC to allow for configuration and firmware updates.

NOTES

FIGURED DIMENSIONS TO TAKE PREFERENCE TO SCALING.
THE CONTRACTOR AND HIS SUB-CONTRACTOR TO CHECK ALL DETAILS, LEVELS AND DIMENSIONS BEFORE COMMENCING WORK ON SITE OR MANUFACTURING ANY COMPONENTS
DISCREPANCIES TO BE REPORTED TO THE ARCHITECTURAL PROFESSIONAL.

Solar shall comply with SANS1307, SANS10106, SANS10254
All electrical low voltage installations and wiring shall comply with SANS10142-1

CHECKERFLAG PROJECTS
COST EFFECTIVE SUSTAINABLE DESIGN

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PROJECT
**ELECTRICAL
UPGRADE OF
MOBILE KITCHEN
CARAVAN**

TITLE
**CONVERTING ELECTRICITY /
GENERATOR-USE TO
FULL SOLAR ELEC. SUPPLY**

CLIENT
**CAPE WINELANDS DISTRICT
MUNICIPALITY**

DRAWN BY	QF	CHECKED BY	CP	DATE	NOV 2023
SCALE (@A1)	1:20	PROJECT NUMBER	462553		
DRAWING NUMBER	01	REV			