Ben Harris
Concept Studies







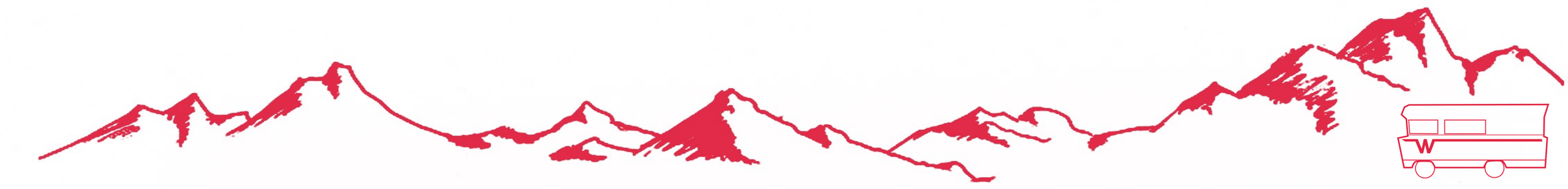
A car for a pandemic.

I must have been dreaming of a summer holiday at the start of this project and decided the best way to get away during a pandemic would be in a campervan. You could avoid contact with other people much better than in a hotel and escape to some sort of normality. Campervans and caravans give you great freedom to travel but most are best at a campsite relying on mains electricity and a fresh water supply.

So my design inspired by the 1970's Winnebago Brave is fully self sufficient relying only on solar panels built into the roof charging a large underfloor battery and features large water tanks for long days on the road.

To take it one step further what if a future pandemic escalated into a Mad Max style apocalypse? You would need a vehicle that allows you to survive with no infrastructure. So it is driven by four electric motors, the water tanks purify water and cabin air filters create a safe environment inside. Adjustable air suspension gives a smooth ride on road and can be raised when the roads end and airless tyres mean your never stuck with a flat.

So if it can survive all that it should cope with your family holiday no problem...



INSPIRATION





















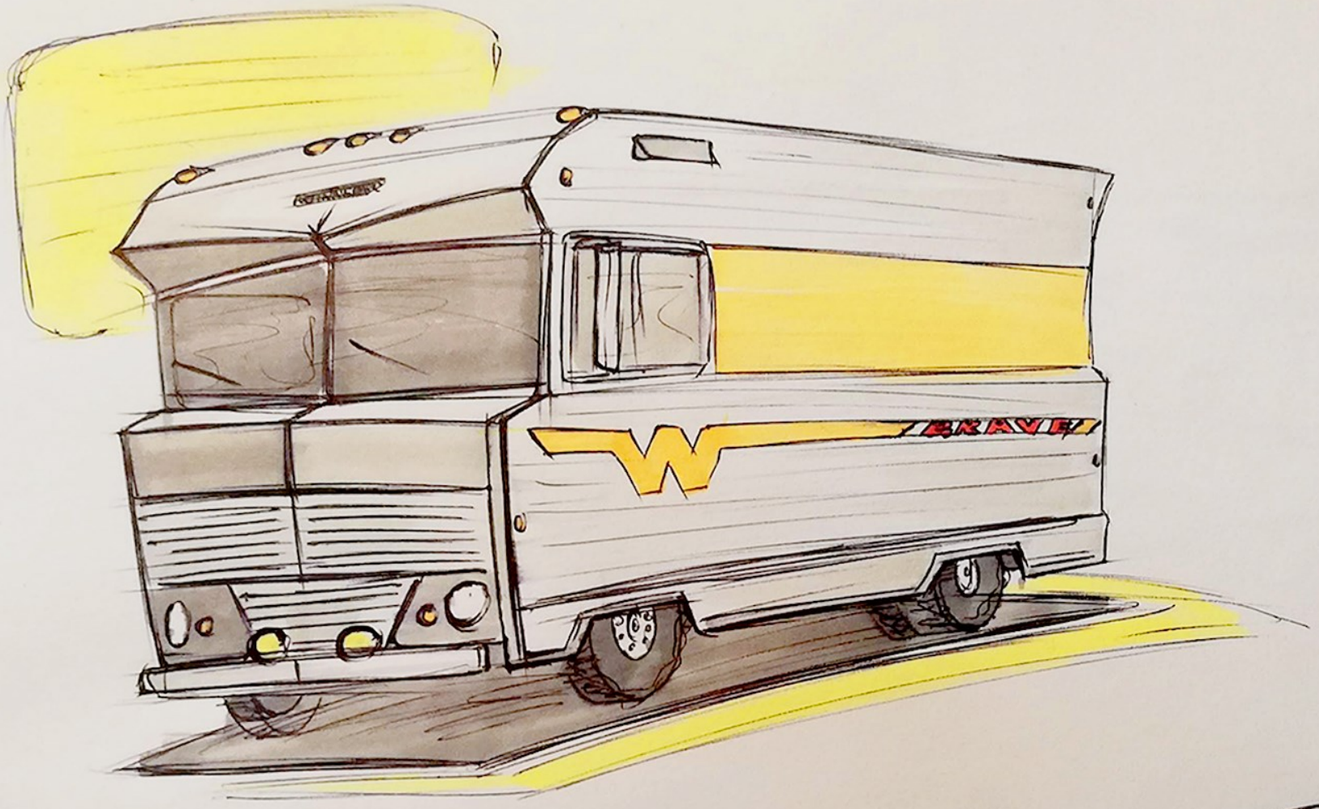


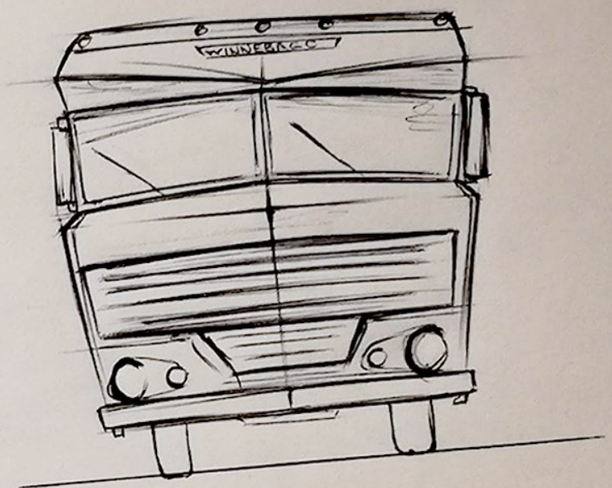


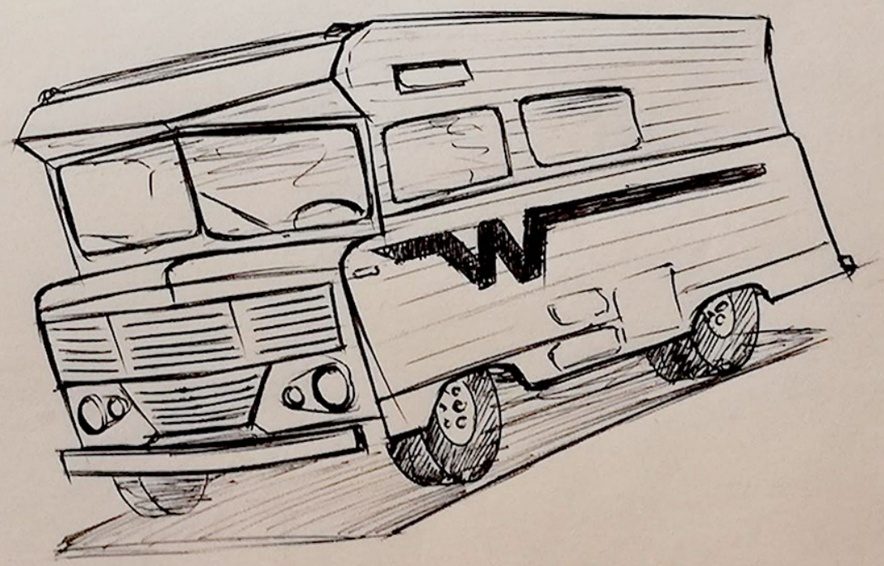


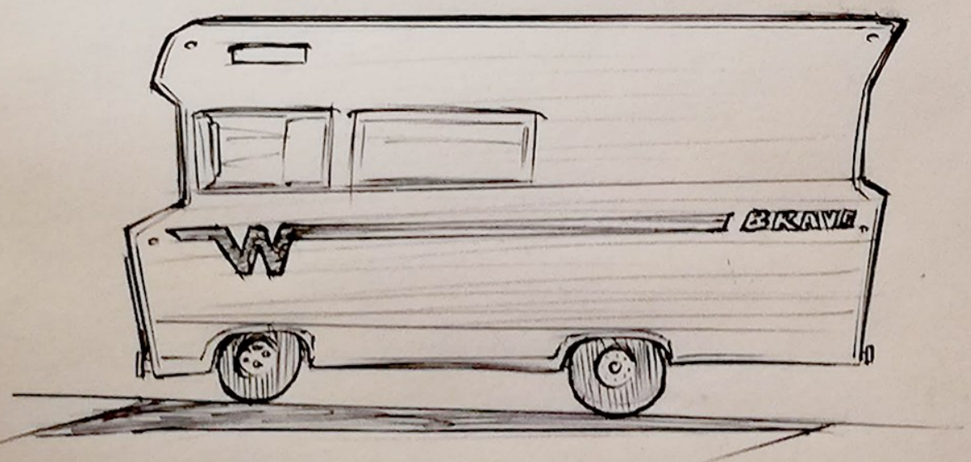


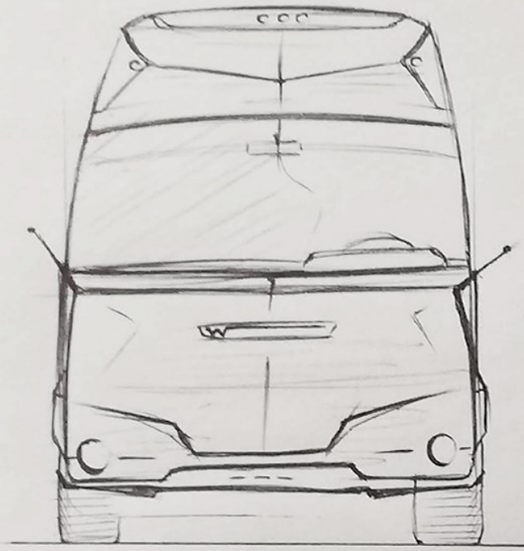
WINNEBAGO

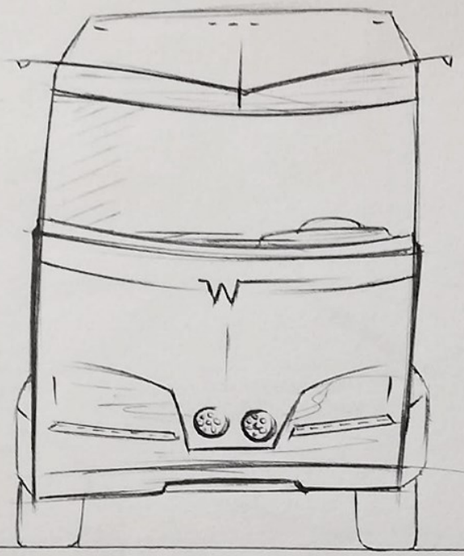


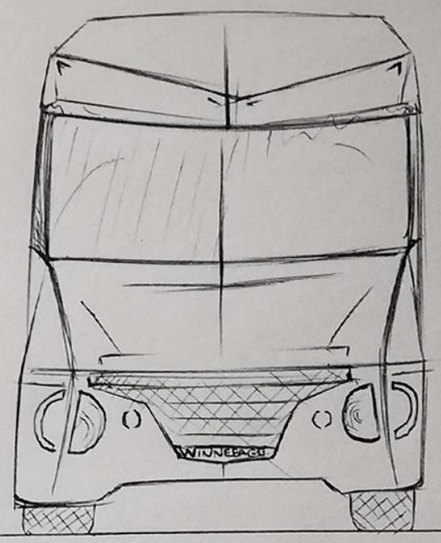


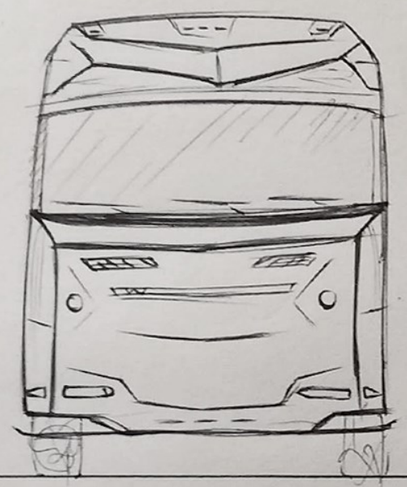


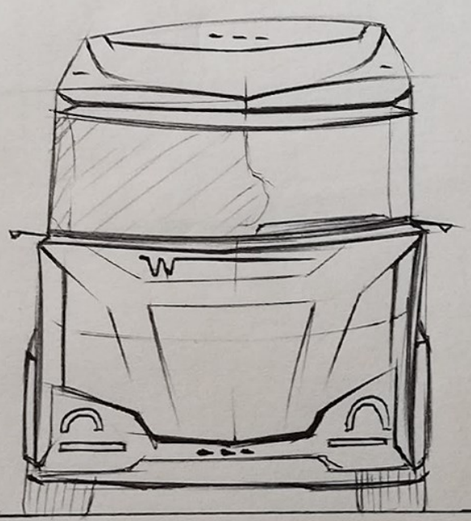


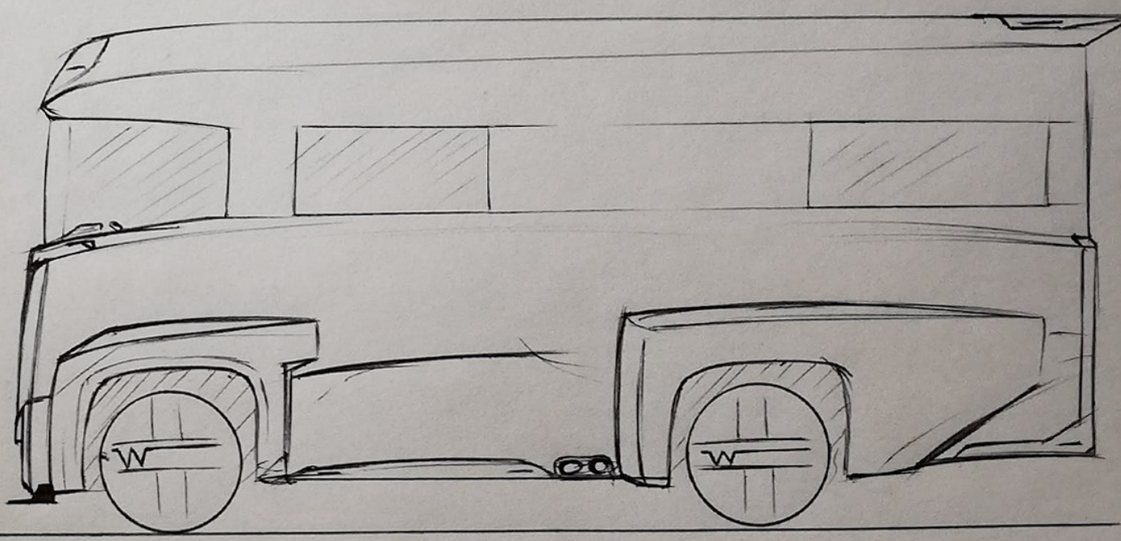


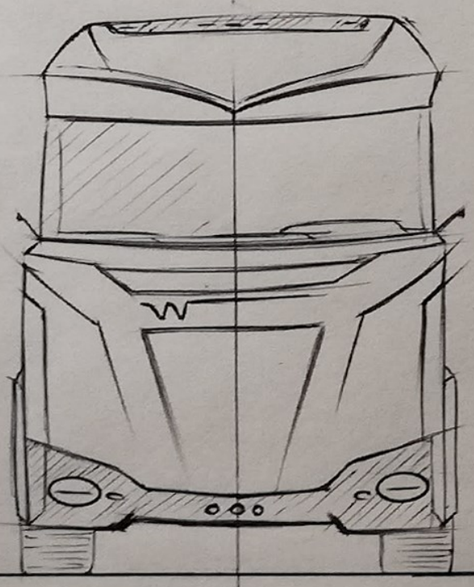


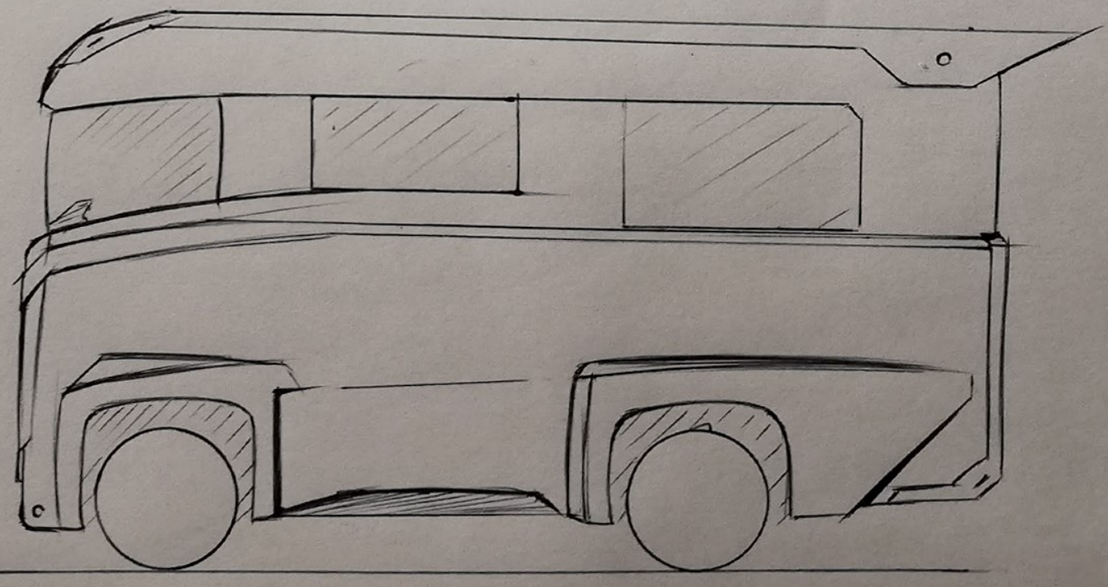












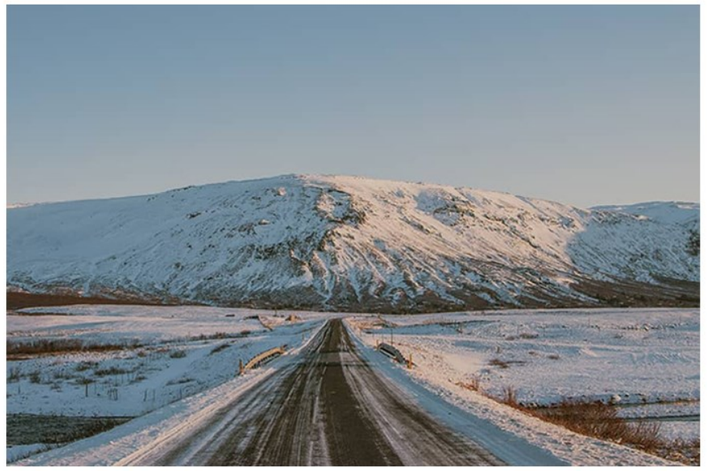
A self sufficient, go anywhere, luxury campervan











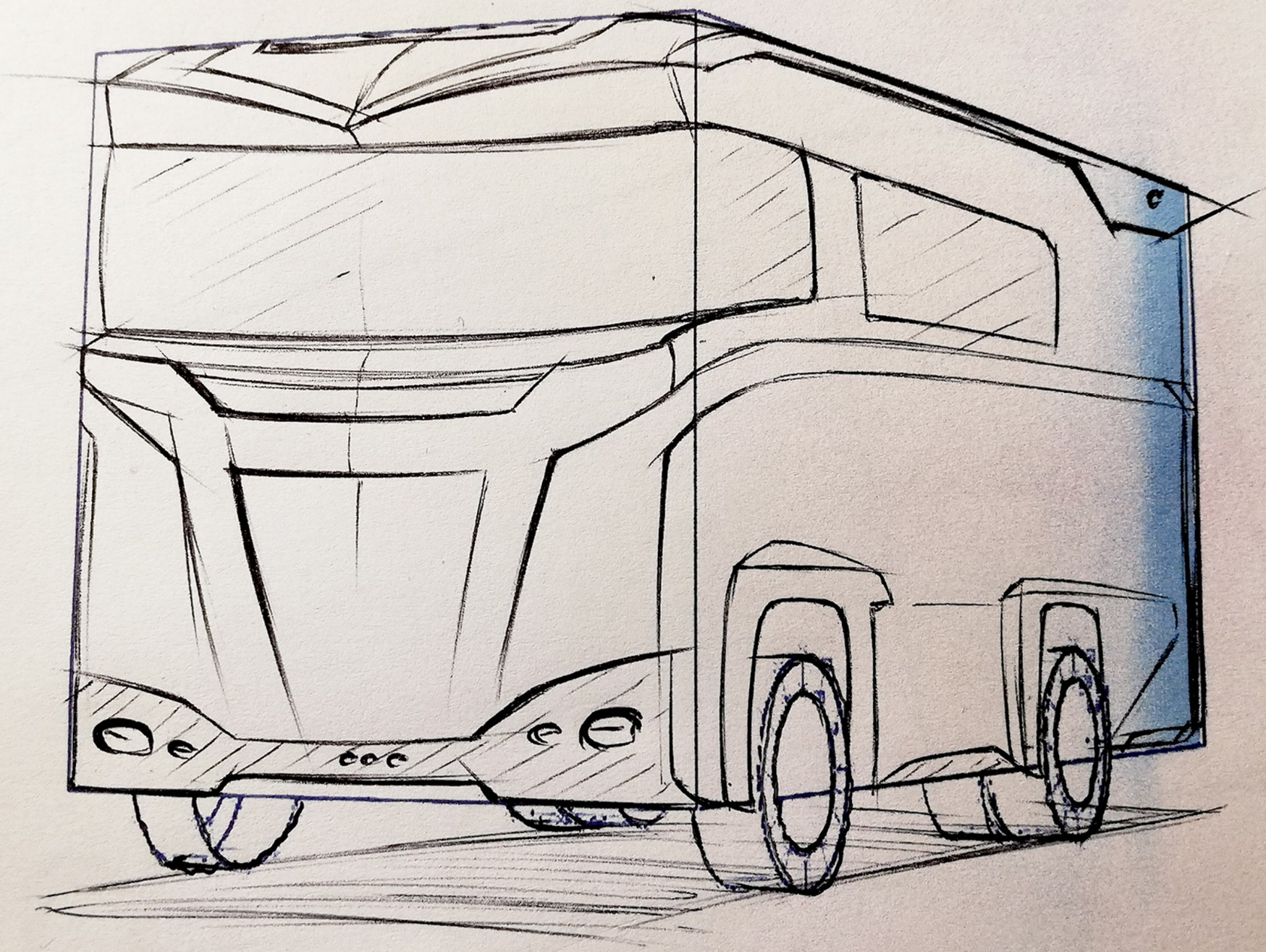


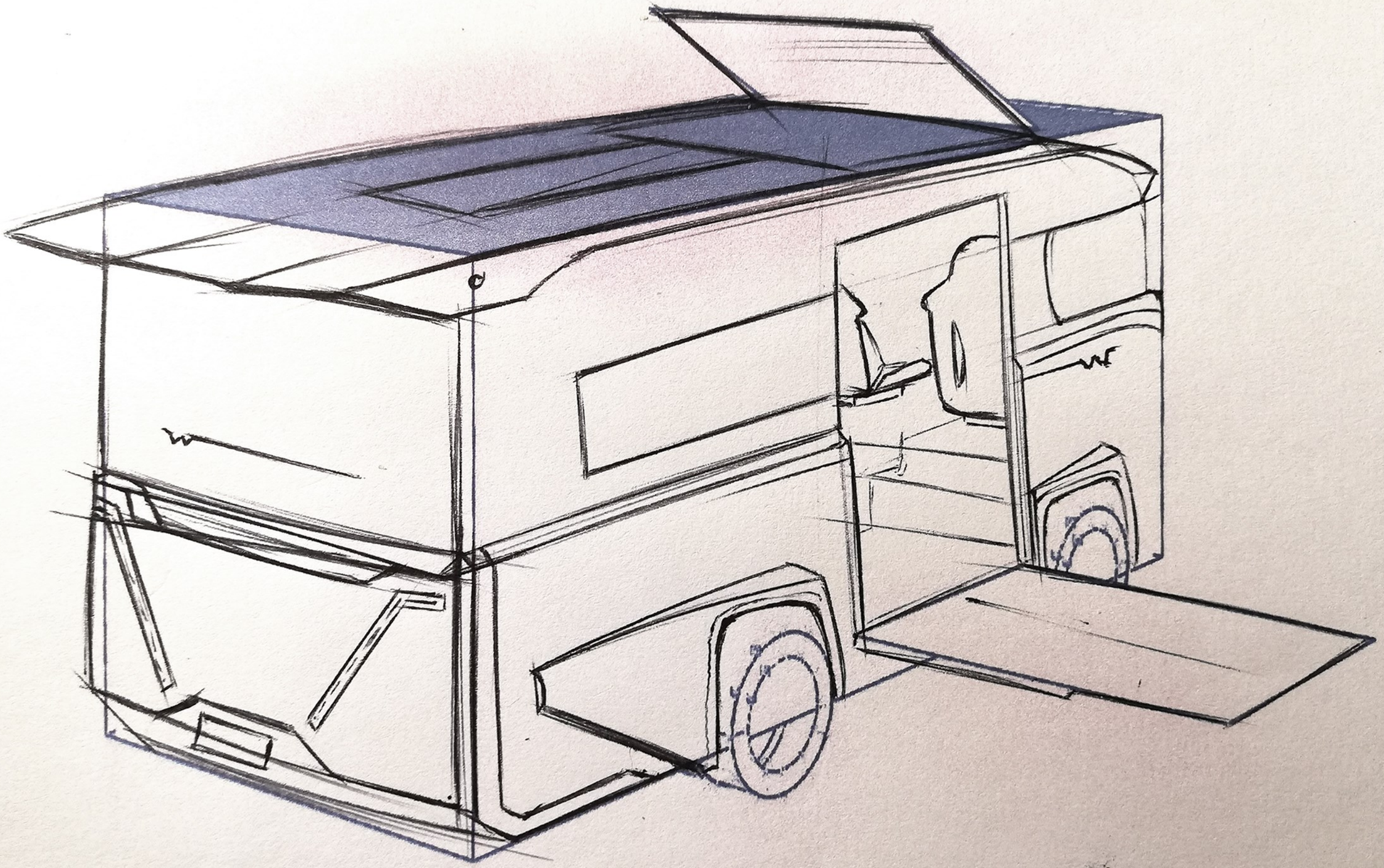


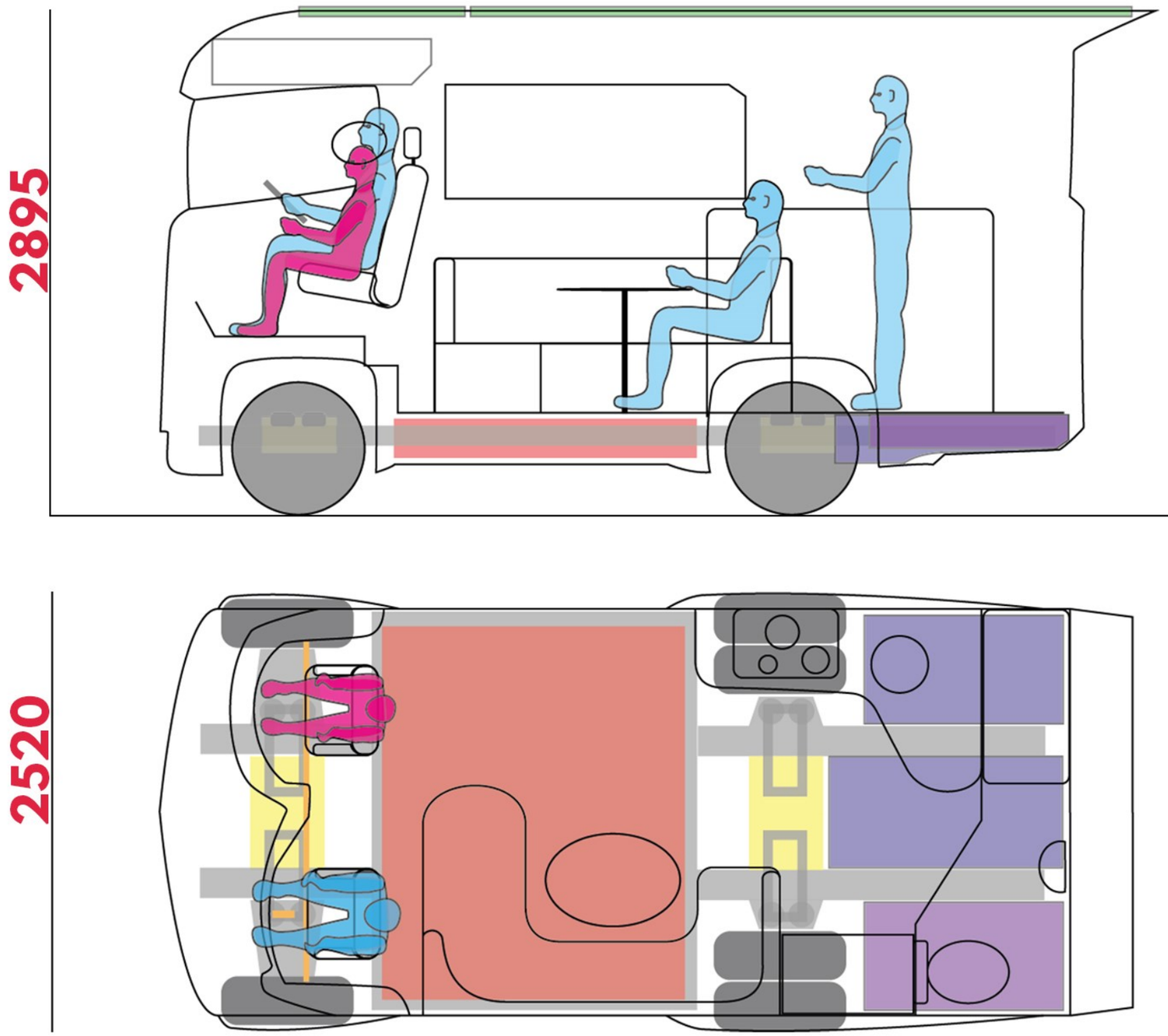




HOLIDAY ANYWHERE NO MATTER WHAT







95TH PERCENTILE ERGO

5TH PERCENTILE ERGO

BATTERY

ELECTRIC MOTORS

CHASSIS AND SUSPENSION

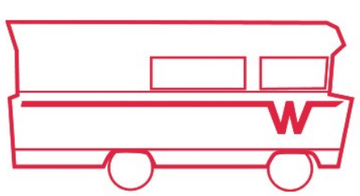
WHEELS AND TYRES

SOLAR PANELS

STEERING

FRESH WATER TANKS

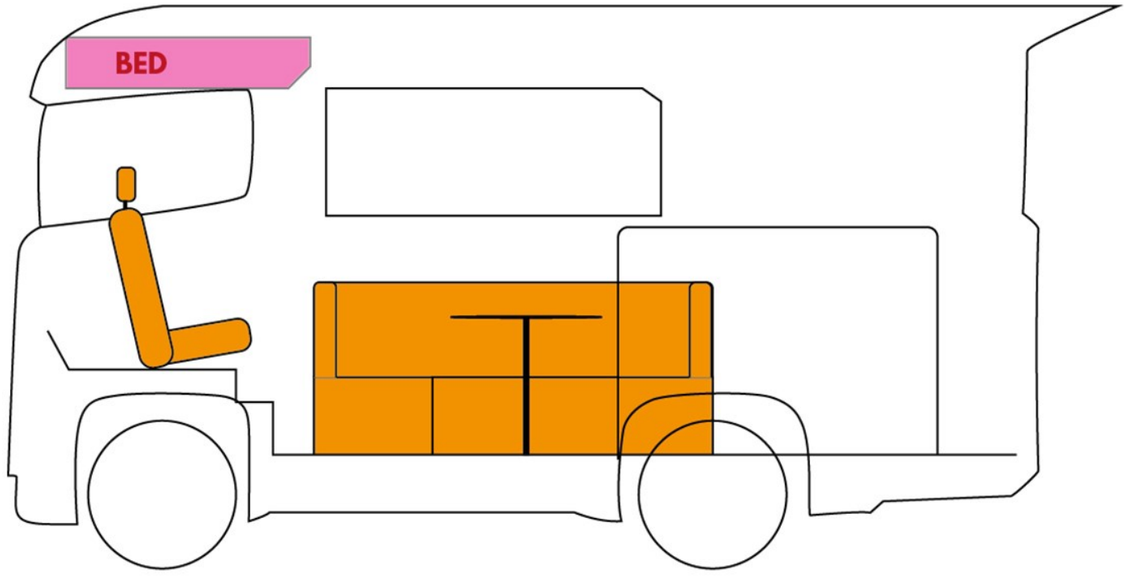
WASTE WATER TANK



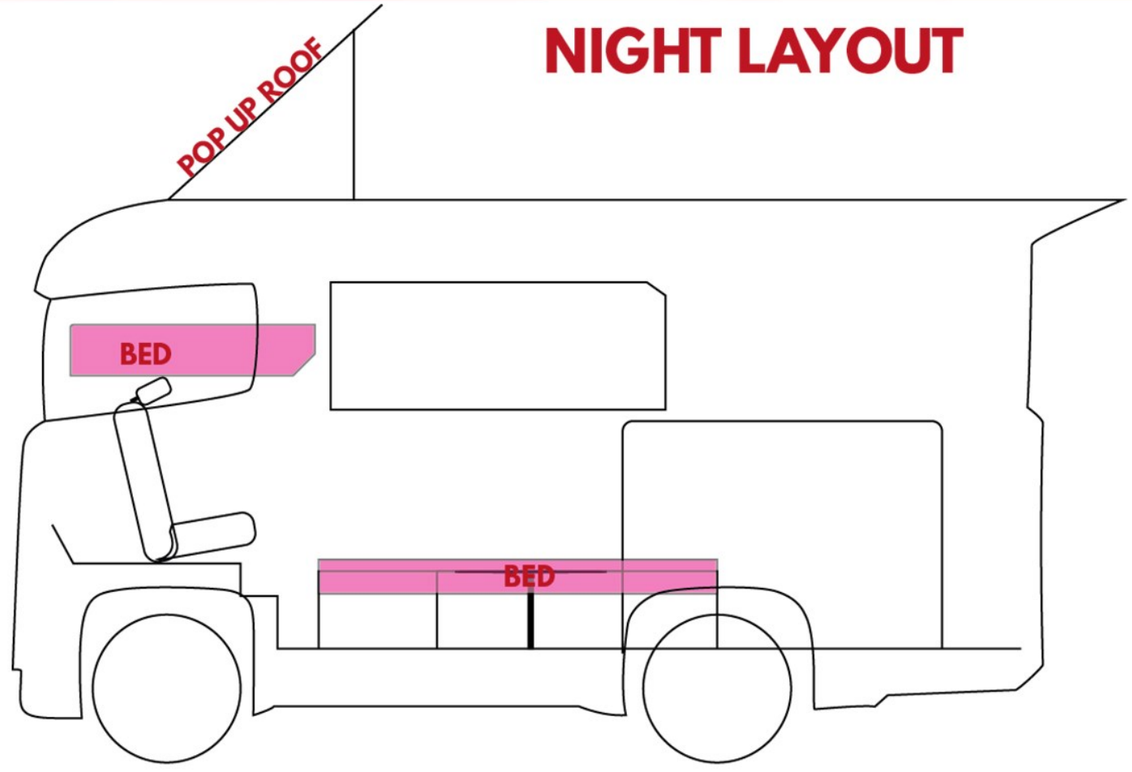
1:30 SCALE

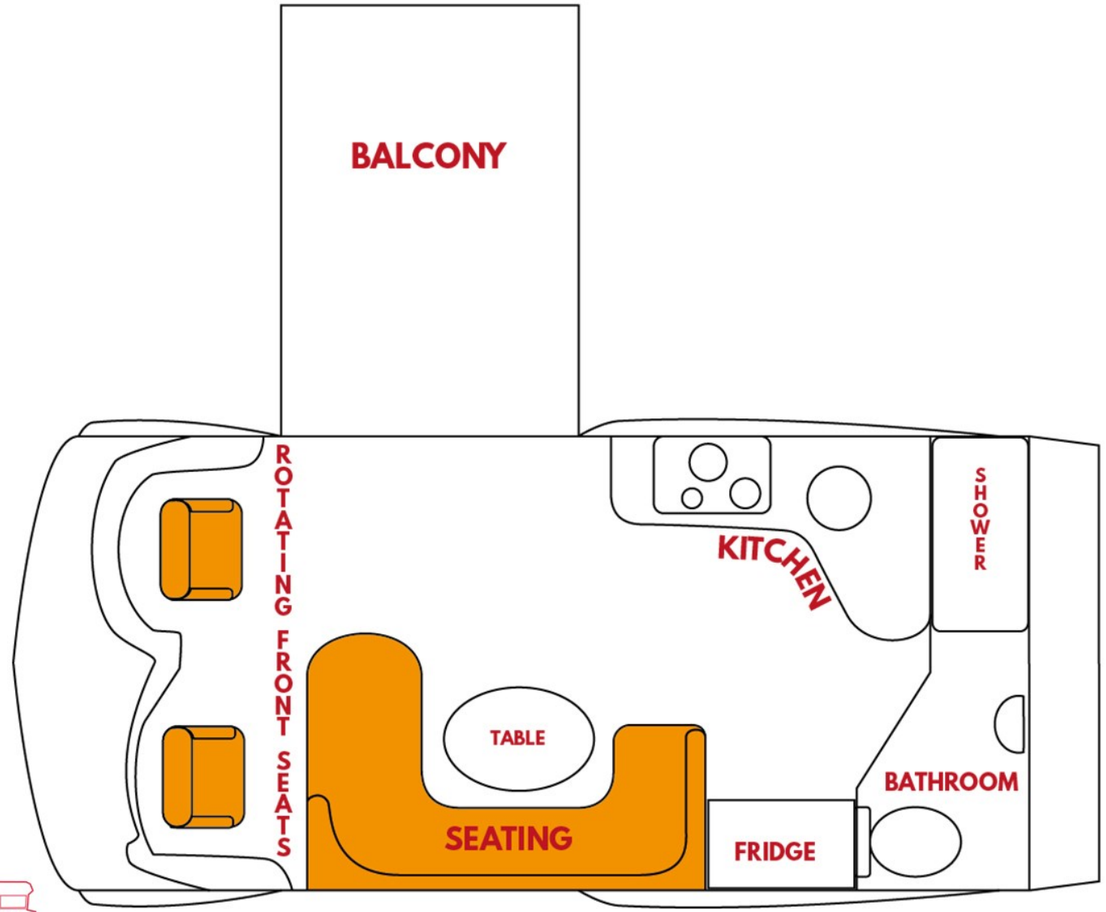
ALL DIMENTIONS IN MILLIMETRES

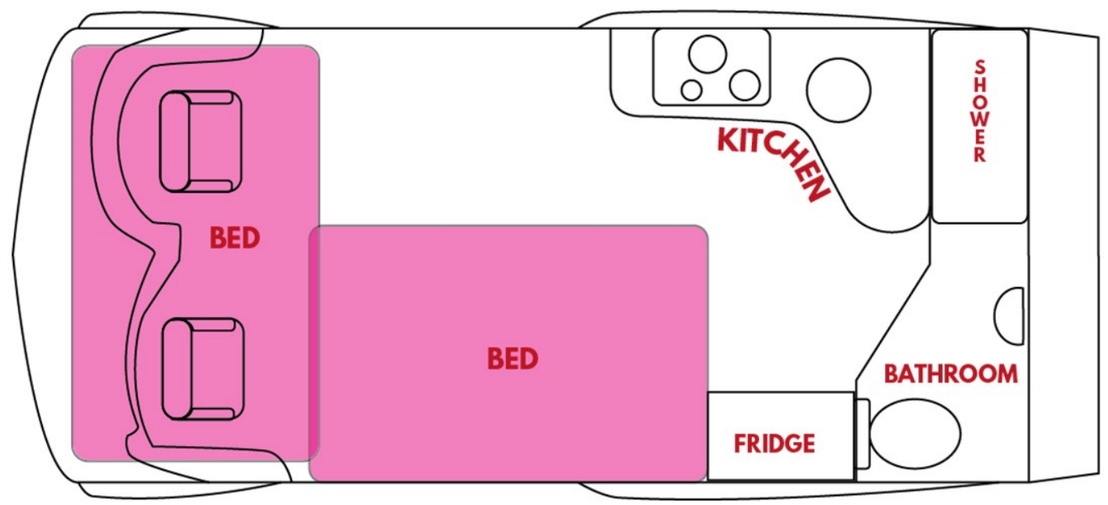
DAY LAYOUT



NIGHT LAYOUT







ADJUSTABLE AIR SUSPENSION

Minimum ground clearance: 3.5” 90 mm

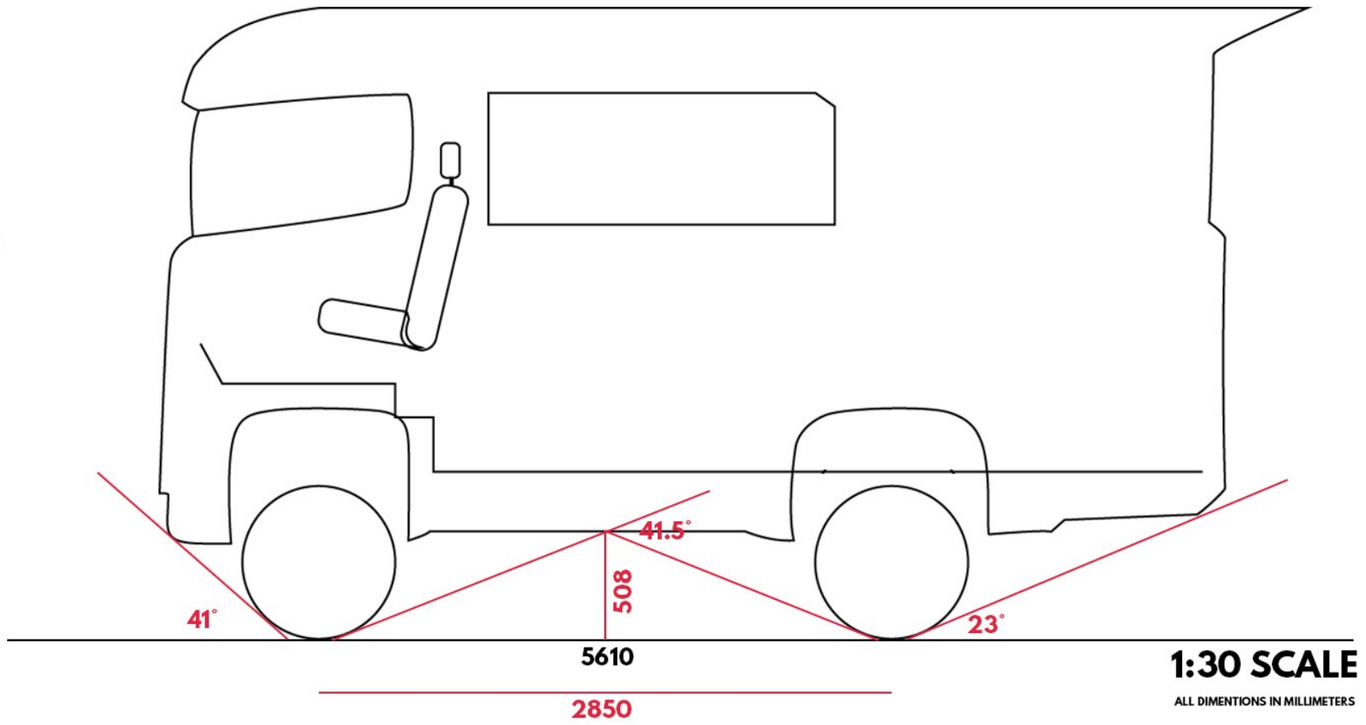
Road ride height: 10.5” 267 mm

Maximum ground clearance: 21” 508 mm

Approach angle: 41˚

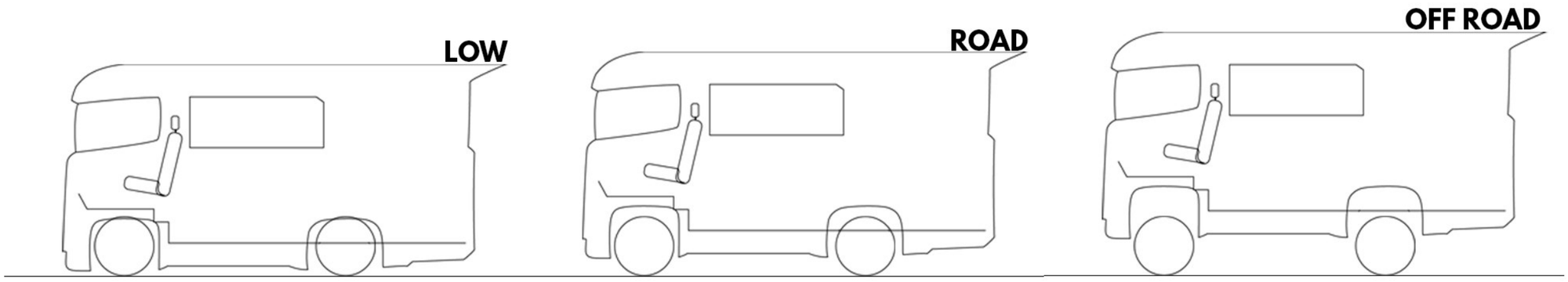
Departure angle: 23˚

Breakover angle: 41.5˚



1:30 SCALE

ALL DIMENTIONS IN MILLIMETERS



SPECIFICATION

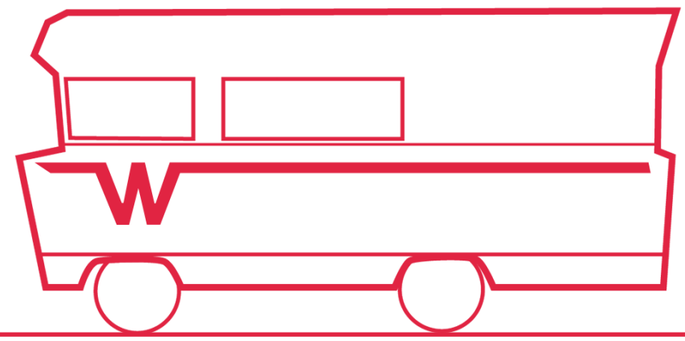
Exterior length: 18’5” 5610 mm
Exterior width: 8’2” 2520 mm
Exterior height: 9’0” 2895 mm
Wheelbase: 9’4” 2850 mm

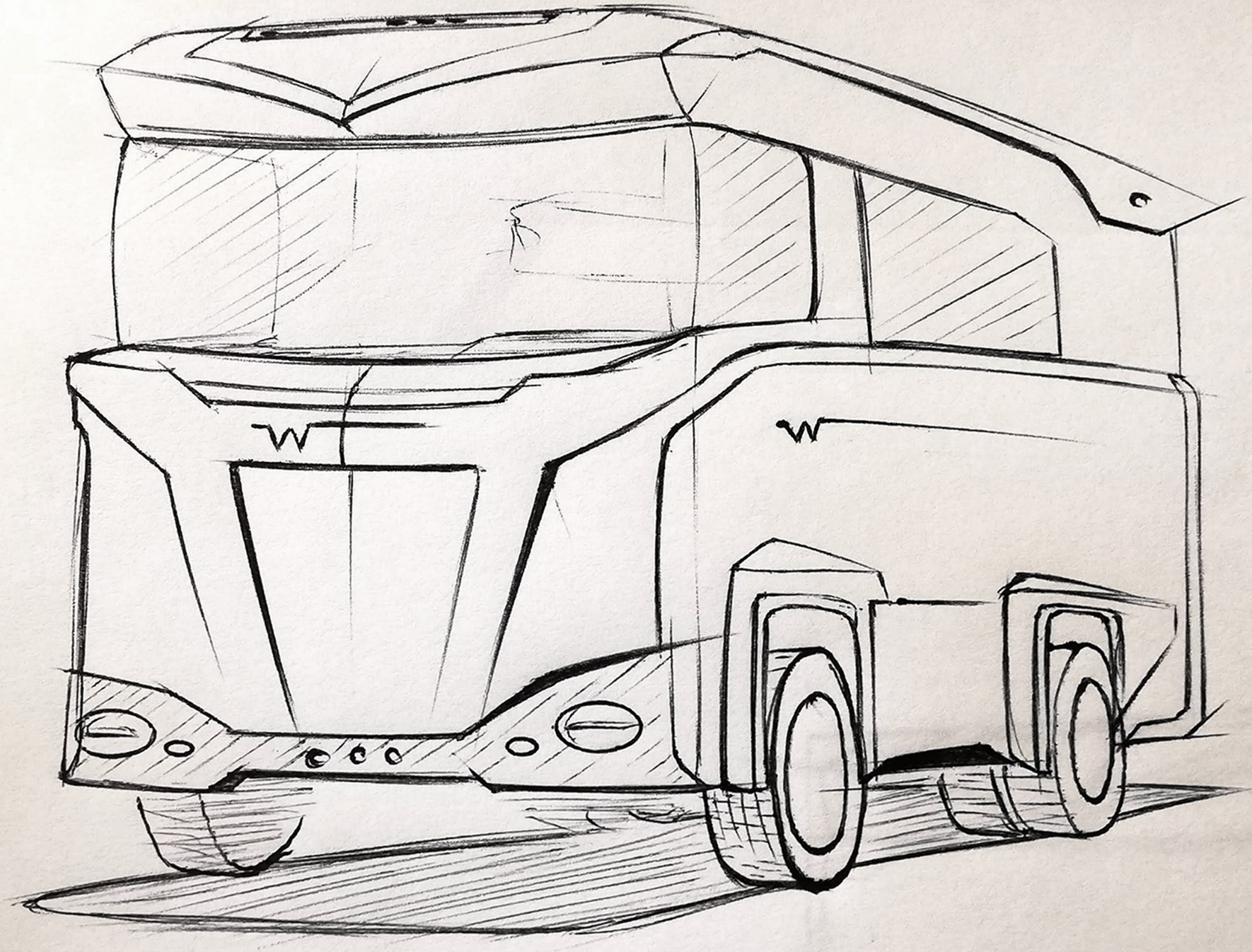
All wheel drive
Dual rear wheels
Airless tyres
4 independent electric motors
1000 hp and 1800 lb ft torque
One pedal driving with regenerative braking
Regenerative hill decent control
Solar panels on roof constantly charge battery
1000 mile range on full charge

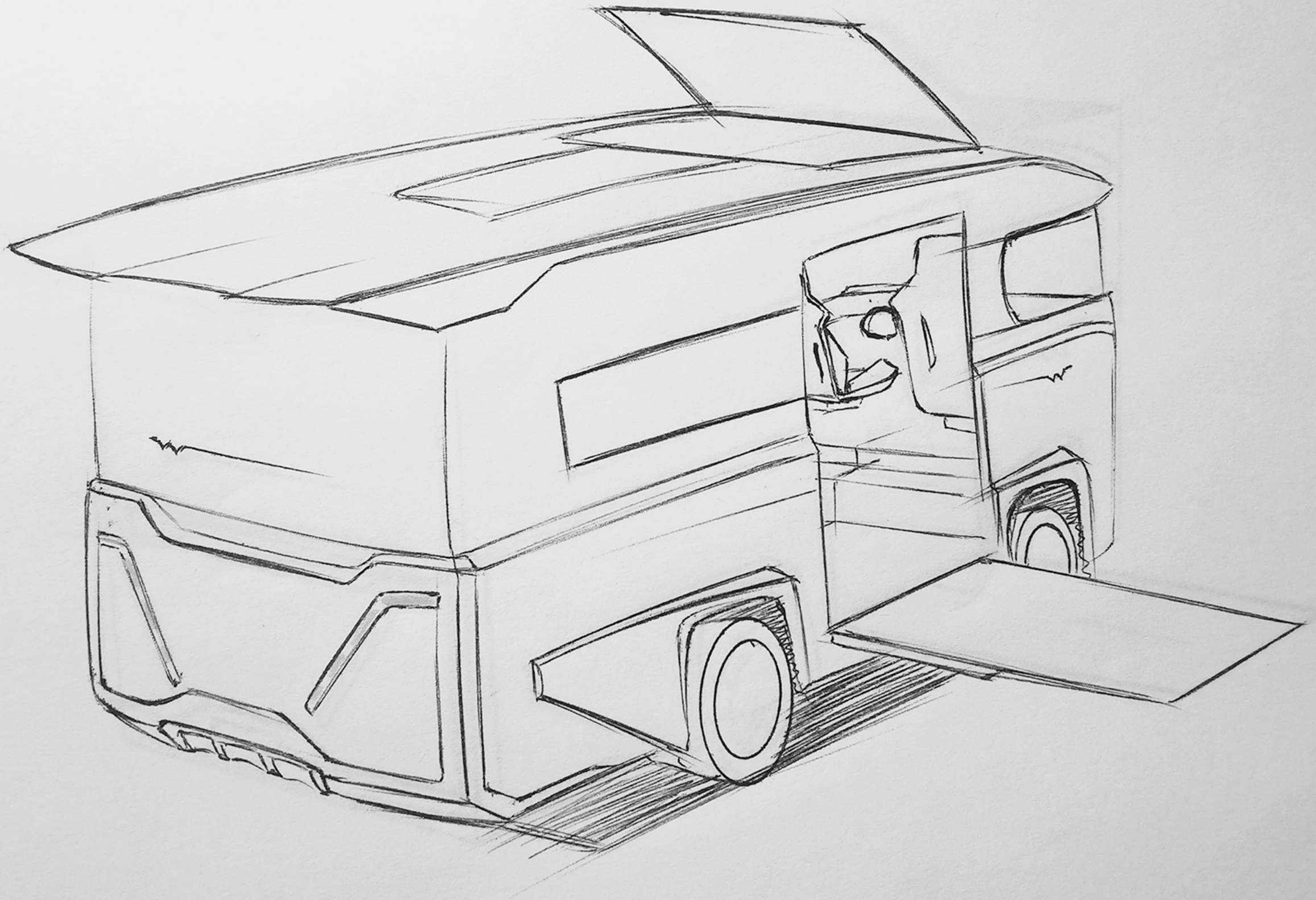
Double doors open conventionally
And lower to create a balcony

Adjustable air suspension and portal axles
Minimum ground clearance: 3.5” 90 mm
Road ride height: 10.5” 267 mm
Maximum ground clearance: 21” 508 mm
Approach angle: 41˚
Departure angle: 23˚
Breakover angle: 41.5˚

Air conditioning with HEPA filter
Fresh water tanks with purification system
Fresh water tanks capacity: 95.3 gallons 361 litres
Grey water tank capacity: 37.6 gallons 142.5 litres
Black water tank capacity: 5 gallons 22.7 litres

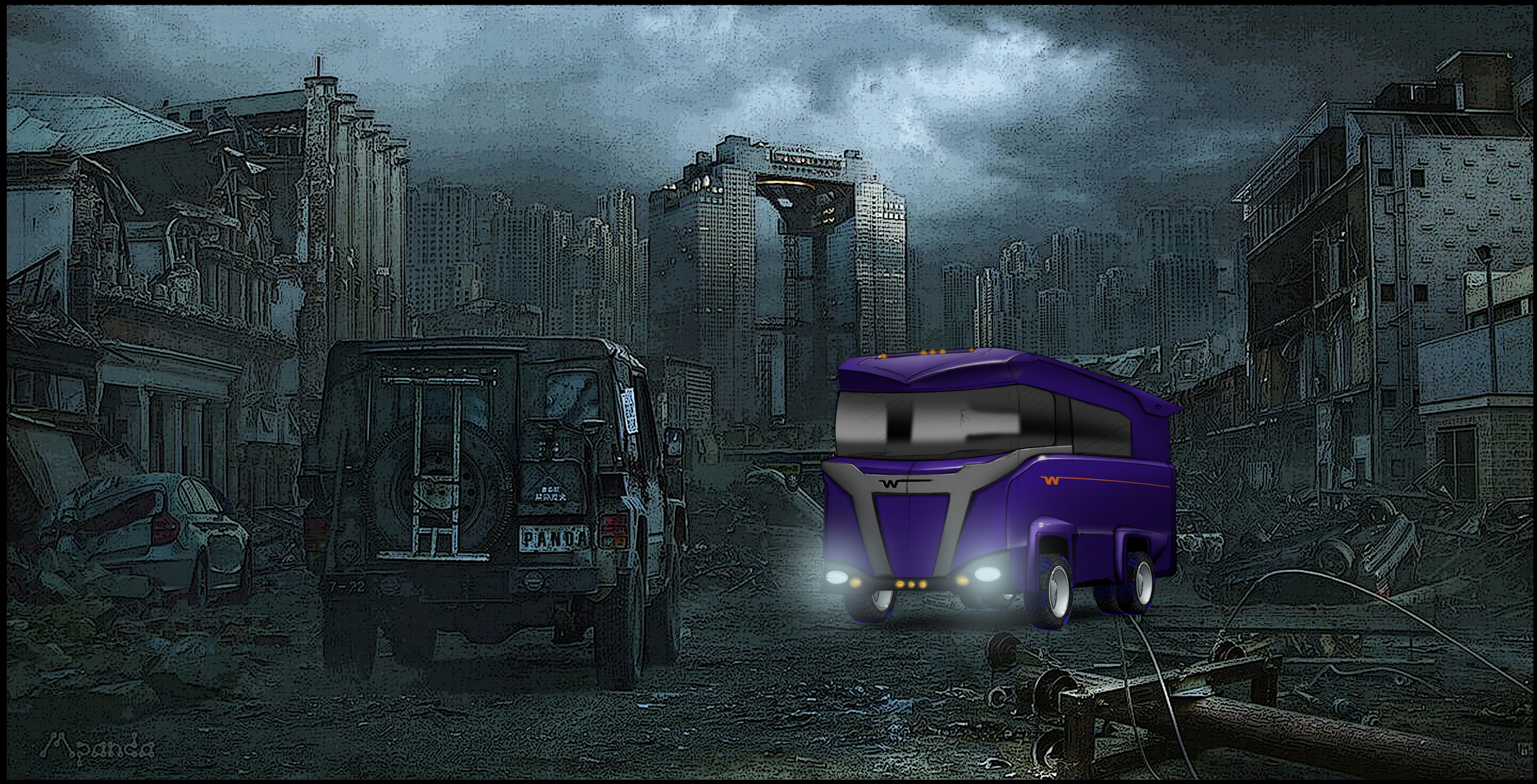











PANDA
7-22
Panda



