

Notes

This drawing represents an early-stage planning layout, not a final construction drawing.
The purpose is to communicate logical network layout to clients, services engineers, and contractors.
Buildings are arranged on a minimum site of 400m x 200m.
Each block is calculated to around 10m by 10m

Network Structure

Each building contains a Campus Distributor (CD) rack.
Inter-building connectivity is provided using single-mode fibre in a ring topology.
Ring topology provides resilience: each building has two network paths.

Ducting and Containment

100mm underground duct: single-mode fibre only.
50mm duct: Cat6 copper cabling for local services.
Fibre is installed in a loop between all major buildings to allow continued operation if one link fails.

External Connectivity

Ducting routes are planned to avoid single points of failure.
Carrier connections are assumed to enter at physically separated buildings for resilience.

Buildings Served

Supermarket
Forecourt building
Test & service building
Slow charge area
Fast charge area
Battery building 1
Battery building 2
Substation 1
Substation 2
Car wash
All buildings with automation, monitoring, retail, or telemetry requirements are connected.

Legend

