



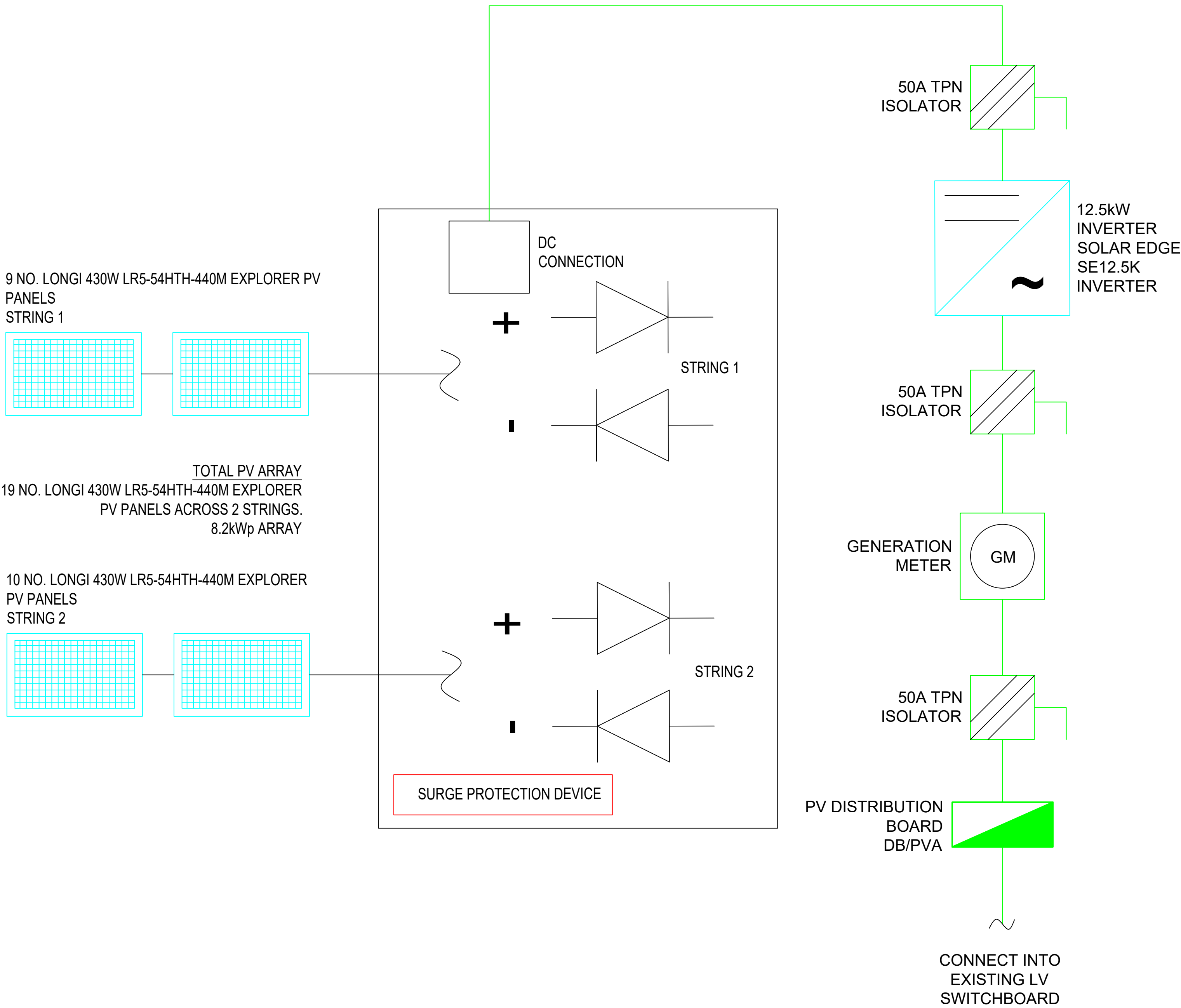


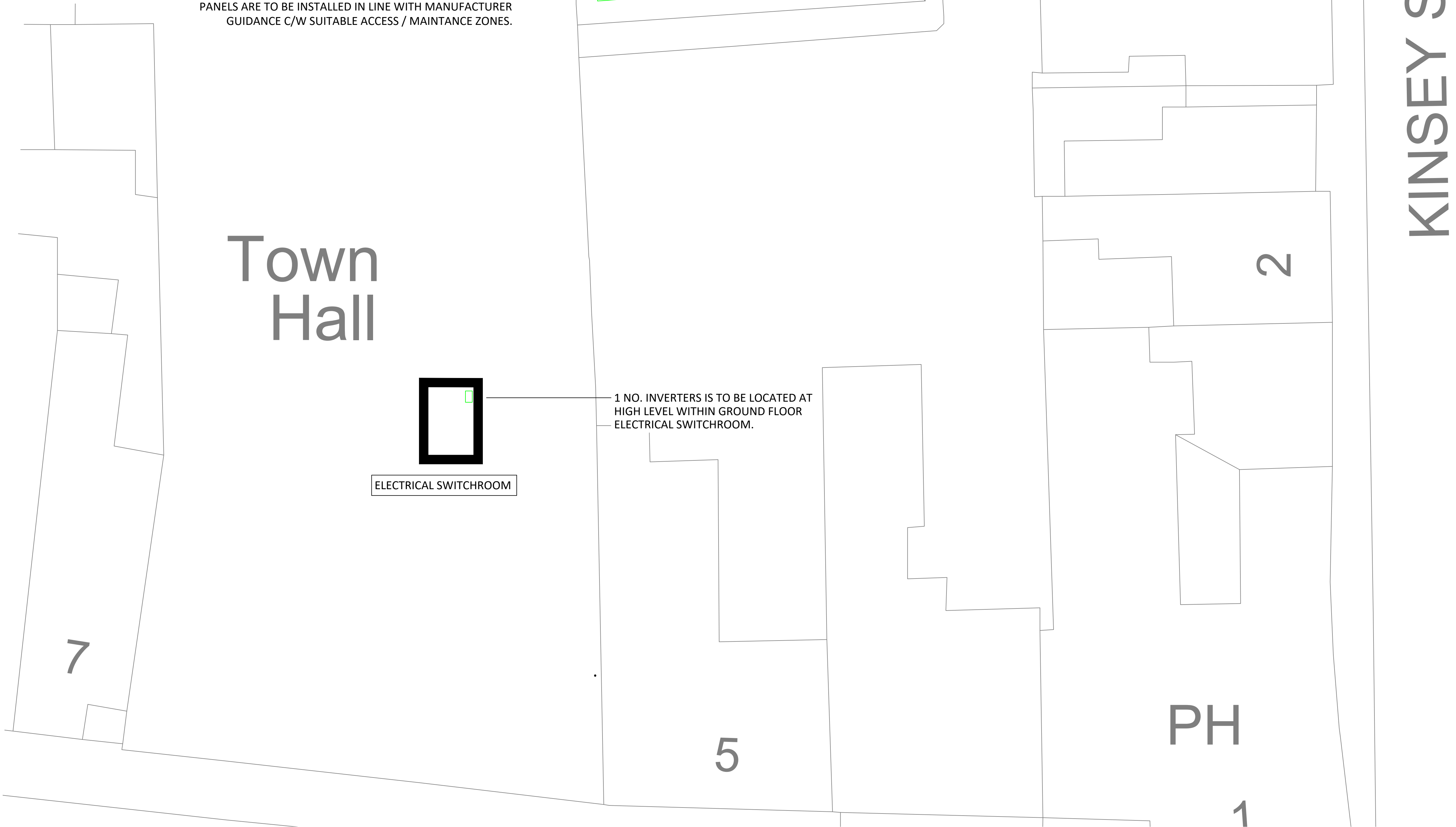
NOTES:

- DO NOT SCALE OFF THIS DRAWING.
- ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE RELEVANT MECHANICAL AND / OR ELECTRICAL SPECIFICATION(S).
- ALL DIMENSIONS SHOWN ARE IN mm UNLESS SHOWN OTHERWISE.
- THE PV SYSTEM DESIGN SHALL BE BASED UPON SOLAR EDGE AS DETAILED.
- THE CONTRACTOR SHALL ENSURE THE PV PANELS COMPLY WITH THE DEFRA SOLAR PANEL PROCUREMENT AND FORCED LABOR RISK MITIGATION GUIDANCE.
- ALL ROOF MOUNTED CABLE TRAY SHALL BE GALVANISED WITH GALVANISED COVERS.
- ALL PHOTOVOLTAIC PANELS SHALL BE WIRED & INTERCONNECTED USING ELAND CABLES H1Z2Z2-4 CABLE OR EQUIVALENT, SIZE 4mm² SSA, TO COMPLY WITH BS EN 50618 OR EQUAL AND APPROVED.
- A SPECIALIST CONTRACTOR SHALL BE EMPLOYED FOR THE DESIGN, SUPPLY, INSTALLATION AND COMMISSION OF THE NEW PHOTOVOLTAIC SYSTEM.
- PV STRING GENERATOR JUNCTION BOX WHERE APPLICABLE IN THE DESIGN SHALL CONTAIN BLOCKING DIODES AND SURGE PROTECTION DEVICE.
- ALL NEW PHOTOVOLTAIC FRAME SUPPORT SHALL BE BONDED TO THE EXISTING LIGHTNING PROTECTION NETWORK (ROOF).
- THE CONTRACTOR SHALL ALLOW FOR ISSUING FULL DETAILS OF WEIGHTS AND SIZES TO THE STRUCTURAL ENGINEER PRIOR TO INSTALL ETC TO ENABLE ANY ROOF SUPPORT OR REINFORCEMENTS TO BE DESIGNED IN IF REQUIRED TO SUPPORT THE NEW SYSTEMS.
- THE CONTRACTOR SHALL ALSO ADVISE OF ALL THE PROCUREMENT DETAILS AND LEAD IN TIMES FOR ALL ASSOCIATED PV PANELS AND EQUIPMENT.
- THE CONTRACTOR SHALL ALLOW FOR FULL LIAISON WITH THE END USER TO AGREE INSTALLATION DATES AND ANY DOWNTIME REQUIRED FOR CONNECTION BACK INTO EACH BLOCKS ELECTRICAL SWITCHGEAR.
- THE SPECIALIST PV CONTRACTOR EMPLOYED BY THE CONTRACTOR SHALL MAKE ALL NECESSARY G99 STATUTORY METER APPLICATIONS UPON APPOINTMENT.

Longi 430W LR5-54HTH-440M Explorer	
25-Year warranty for materials and processing. 25-Year warranty for extra linear power output - Panel efficiency: 22.5% - Dimensions: 1722 x 1134 x 30mm - Weight: 20.8kg	
Solaredge SE25K Inverter	
12 year (can be extended to 20) manufacturer's parts and replacement warranty for inverter - 98% efficiency - G99 approved single-phase inverter for use on UK grid - Installed local to mains incomer	
Solaredge Power Optimisers	
25 years manufacturer's parts and replacement warranty for Power Optimisers - Maximises power output and enables monitoring of individual PV panels - Located beneath PV panels on roof	
Total Generation Meter	
MID approved 3-phase generation meter to measure kWh of solar energy generated. - Modbus comms enable remote metering via Solaredge monitoring portal - Located between inverter and AC connection	



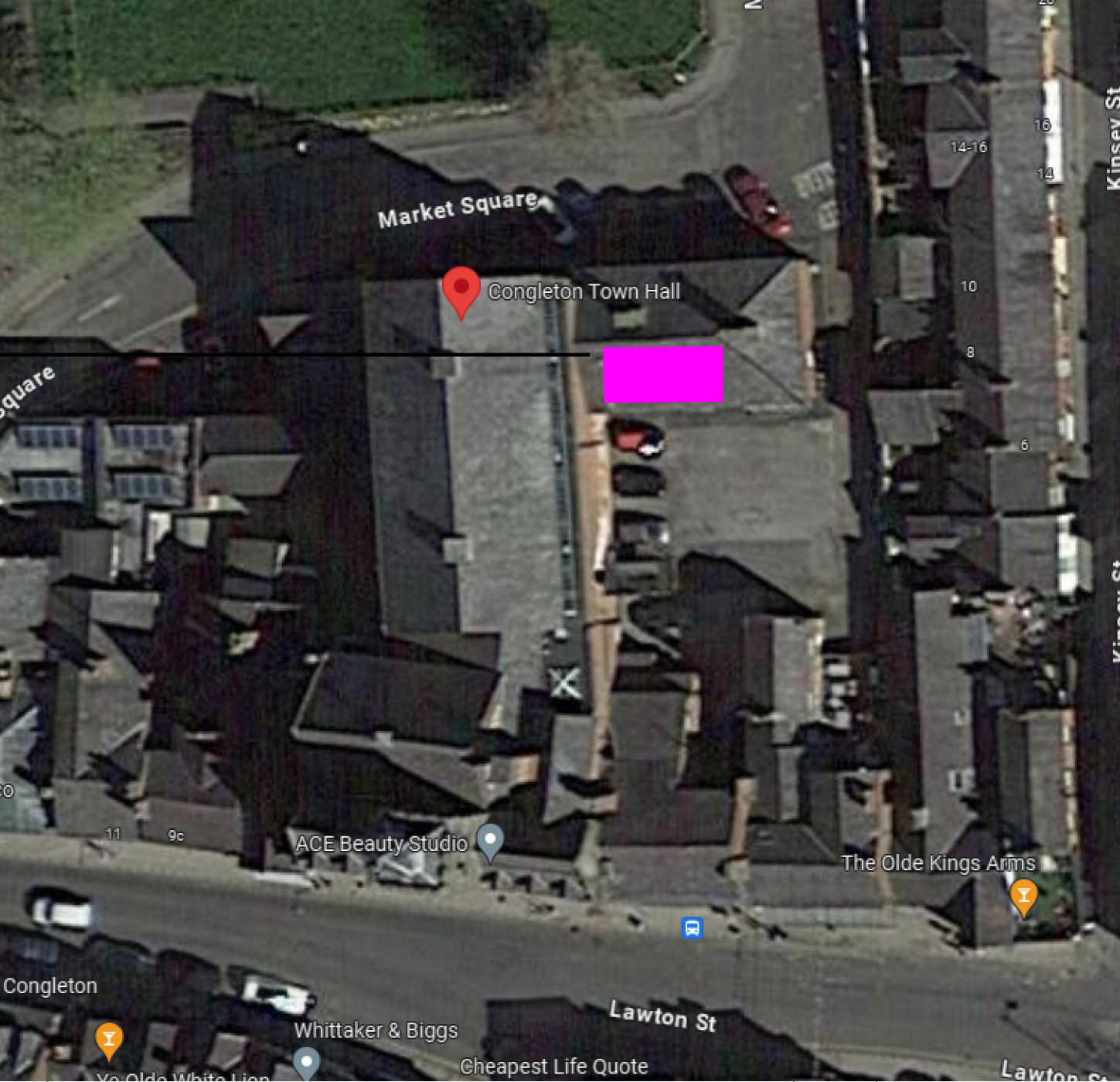
PROPOSED PHOTOVOLTAIC SCHEMATIC - NTS



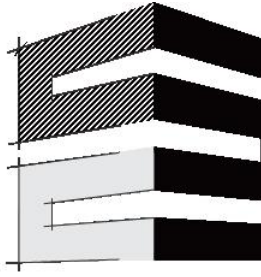
PROPOSED PHOTOVOLTAIC LAYOUT  
SCALE - 1:100



PROPOSED VACANT WALL SPACE  
ADJACENT TO ELECTRICAL SWITCHGEAR  
IS TO HOUSE NEW PV INVERTER



GOOGLE MAPS SITE PLAN - NTS

T1	05.09.2024	TENDER ISSUE	
Revision	Date	Description	
Client & Site			
CONGLETON TOWN HALL CONGLETON TOWN COUNCIL 7 HIGH STREET, CONGLETON CW12 1BN			
Title			
PROPOSED PHOTOVOLTAIC LAYOUT MUSEUM			
PEARSON DESIGN & PROJECT MANAGEMENT			
			
<b>PEARSON</b> DESIGN & PROJECT MANAGEMENT			
Date: JULY 24	Scale: 1:100	Drawn: JAB	Check: CP
Drawing No.	2402-E002A	Rev:	T1