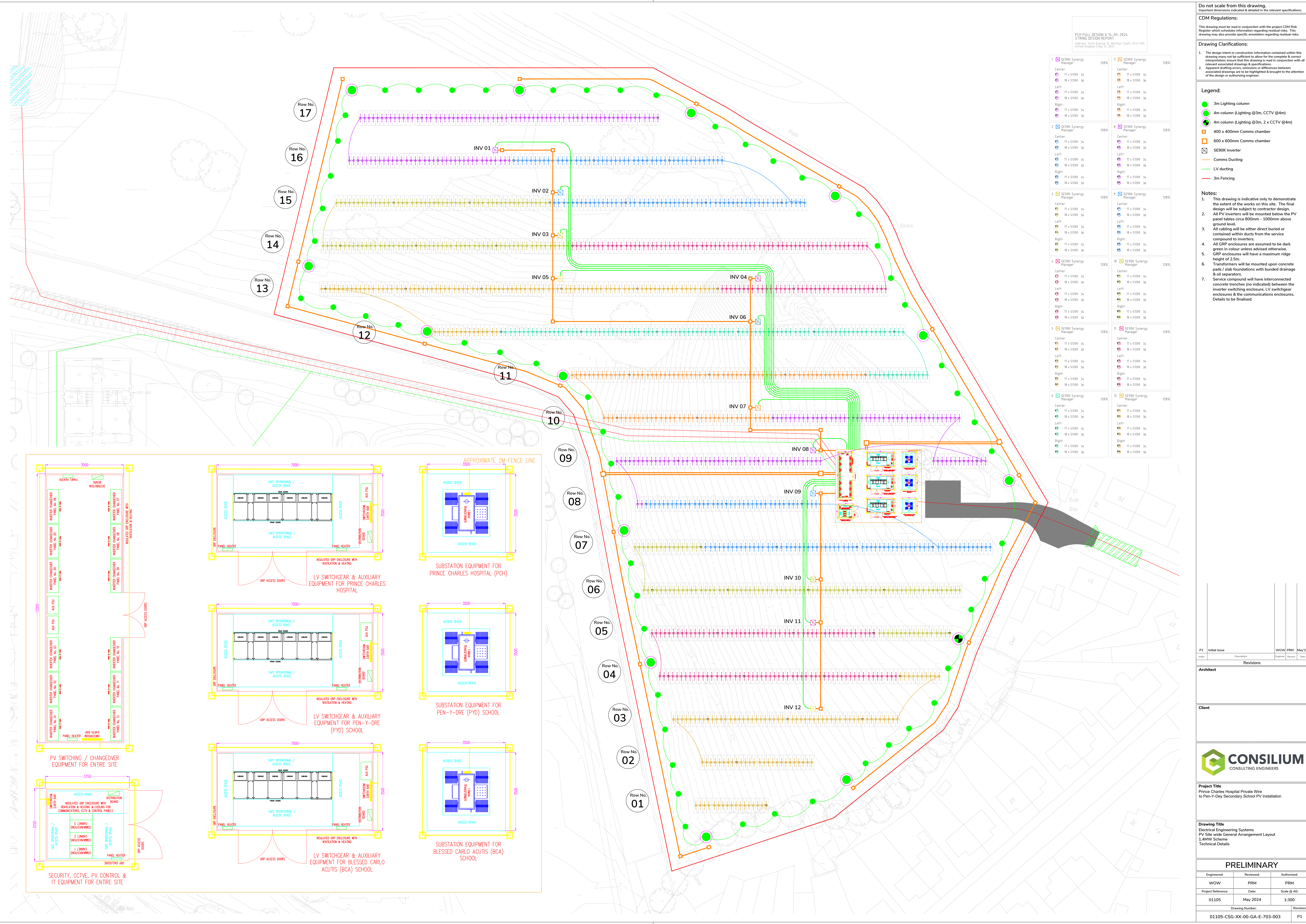




PCH FULL DESIGN A 14-05-2024
STRONG DESIGN REPORT
Address: South Avenue 72, Northgate, Typhoo, CL4 3JF
United Kingdom | May 14, 2024

1	SE90K Synergy Manager	128%	7	SE90K Synergy Manager	128%
Center:	17 x 51000 34		Center:	17 x 51000 34	
Left:	17 x 51000 34		Left:	17 x 51000 34	
Right:	17 x 51000 34		Right:	17 x 51000 34	
2	SE90K Synergy Manager	128%	8	SE90K Synergy Manager	128%
Center:	17 x 51000 34		Center:	17 x 51000 34	
Left:	17 x 51000 34		Left:	17 x 51000 34	
Right:	17 x 51000 34		Right:	17 x 51000 34	
3	SE90K Synergy Manager	128%	9	SE90K Synergy Manager	128%
Center:	17 x 51000 34		Center:	17 x 51000 34	
Left:	17 x 51000 34		Left:	17 x 51000 34	
Right:	17 x 51000 34		Right:	17 x 51000 34	
4	SE90K Synergy Manager	128%	10	SE90K Synergy Manager	128%
Center:	17 x 51000 34		Center:	17 x 51000 34	
Left:	17 x 51000 34		Left:	17 x 51000 34	
Right:	17 x 51000 34		Right:	17 x 51000 34	
5	SE90K Synergy Manager	128%	11	SE90K Synergy Manager	128%
Center:	17 x 51000 34		Center:	17 x 51000 34	
Left:	17 x 51000 34		Left:	17 x 51000 34	
Right:	17 x 51000 34		Right:	17 x 51000 34	
6	SE90K Synergy Manager	128%	12	SE90K Synergy Manager	128%
Center:	17 x 51000 34		Center:	17 x 51000 34	
Left:	17 x 51000 34		Left:	17 x 51000 34	
Right:	17 x 51000 34		Right:	17 x 51000 34	

Do not scale from this drawing.
Important dimensions indicated & detailed in the relevant specifications.

CDM Regulations:
This drawing must be read in conjunction with the project CDM Risk Register which schedules information regarding residual risks. This drawing may also provide specific annotation regarding residual risks.

Drawing Clarifications:
1. The design intent or construction information contained within this drawing may not be sufficient to allow for the complete & correct interpretation; ensure that this drawing is read in conjunction with all relevant associated drawings & specifications.
2. Apparent drafting errors, omissions or differences between associated drawings are to be highlighted & brought to the attention of the design or authorising engineer.

Legend:
● 3m Lighting column
● 4m column (Lighting @3m, CCTV @4m)
● 400 x 400mm Comms chamber
■ 600 x 600mm Comms chamber
□ SE90K Inverter
— Comms Ducting
— LV ducting
— 3m Fencing

Notes:
1. This drawing is indicative only to demonstrate the extent of the works on this site. The final design will be subject to contractor design.
2. All PV inverters will be mounted below the PV panel tables circa 800mm - 1000mm above ground level.
3. All cabling will be either direct buried or contained within ducts from the inverter compound to inverters.
4. All GRP enclosures are assumed to be dark green in colour unless advised otherwise. GRP enclosures will have a maximum ridge height of 2.5m.
5. Transformers will be mounted upon concrete pads / slab foundations with bundled drainage & oil separators.
6. Service compound will have interconnected concrete trenches (no indicated) between the inverter switching enclosure, LV switchgear enclosures & the communications enclosures. Details to be finalised.

PV SWITCHING / CHANGEOVER EQUIPMENT FOR ENTIRE SITE

SECURITY, CCTV, PV CONTROL & IT EQUIPMENT FOR ENTIRE SITE

Substation Equipment for Prince Charles Hospital (PCH)

Substation Equipment for Pen-Y-Dre (PYD) School

Substation Equipment for Blessed Carlo Acutis (BCA) School

Substation Equipment for Prince Charles Hospital (PCH)

Substation Equipment for Pen-Y-Dre (PYD) School

Substation Equipment for Blessed Carlo Acutis (BCA) School

P1	Initial Issue		WOW	PRM	May 24
Index	Description	Engined	Review	Date	
Revisions					
Architect					
Client					
CONSILIUM CONSULTING ENGINEERS					
Project Title Prince Charles Hospital Private Wire to Pen-Y-Dre Secondary School PV Installation					
Drawing Title Electrical Engineering Systems PV Site wide General Arrangement Layout 14MW Scheme Technical Details					
PRELIMINARY					
Engineered:	Reviewed:	Authorized:			
WOW	PRM	PRM			
Project Reference:	Date:	Scale @ A0:			
01105	May 2024	1:300			
Drawing Number:					Revisions
01105-CSG-XX-00-GA-E-703-003					P1
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