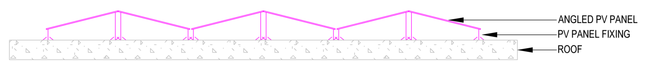

TYPICAL SECTION OF BI-DIRECTIONAL PV PANEL ARRANGEMENT
1:50

NEW PROPOSED TPN DISTRIBUTION BOARD AND DC TO AC INVERTER ARRANGEMENT TO BE UTILISED FOR PV ARRAY. PLEASE REFER TO SPECIALIST DESIGN COMPLETED BY 'YESSS SOLAR' FOR DESIGN AND SCHEDULE OF EQUIPMENT.

INDICATIVE LOCATION OF FLOOR MOUNTED EXTERNAL CONDENSOR NOTE
5No NEW CONDENSORS TO BE PROVIDED.
1No EXSITING CONDENSOR AND ASSOCIATED ISOLATOR TO BE RELOCATED AND RESUPPLIED FROM DB/RF/MECH
ALL ISOLATORS ARE TO BE SUPPLIED BY XLPE SWA MULTICORE CABLING FROM DB/RF/MECH

INDICATIVE ROUTE OF EXISTING FLOOR MOUNTED CONTAINMENT WHICH IS TO BE UTILISED TO ALLOW FOR CABLE WAY FROM PV'S TO INVERTER AND DEDICATED DB LOCATED WITHIN LIFT PLANT ROOM

THE CONTRACTOR IS TO ALLOW FOR THE EXTENSION OF THE EXISTING LIGHTNING PROTECTION SYSTEM TO THE PROPOSED SOLAR ARRAY

54 (1722x1134x30mm) BI-DIRECTIONAL PANEL PV ARRAY, SYSTEM TO PRODUCE 21.87kW WHEN OPERATING AT PEAK, TO INTERFACE WITH LV DISTRIBUTION SYSTEM VIA INVERTER AND TPN DISTRIBUTION BOARD ARRANGEMENT. DETAILS TBC BY STAGE 4 DESIGNER

SIZE AND RATING TBC
32A
TPN

FIXED LADDER

DB/RF/PV

DB/RF/MECH

SOLAR ARRAY

EXIT

IP65 SURFACE MOUNTED ILLUMINATED EXIT SIGN TO BE PROVIDED ABOVE ROOF TERRACE DOOR

refuge 1400 x 900

CONTRACTOR IS TO VERIFY ACCESS ROUTES, PLANT LOCATIONS AND TO PROVIDE SAFE ACCESS LIGHTING USING IP65 IK10 LED LUMINAIRES SUPPLIED VIA XLPE SWA MULTICORE CABLING ROUTED ON DEDICATED GALVANISED CABLE TRAY

GENERAL & EMERGENCY LIGHTING TO BE PROVIDED TO STAIRWELL TO ACHEIVE REQUIREMENTS AS SET OUT BY BS EN 12464-1 AND BS 5266-1. LUMINAIRE TYPES AND LOCATIONS TO BE CONFIRMED BY YOUTH ARCHITECTS

FEATURE LIGHTING TO BE PROVIDED TO TERRACE SPACE TO ACHEIVE REQUIRES AS SET OUT BY BS EN 12464-2. LUMINAIRE TYPES AND LOCATIONS TO BE CONFIRMED BY YOUTH AND COORDINATED WITH TERRACE LAYOUT

CONTAINMENT LEGEND	
SYMBOL	DESCRIPTION
	UNSWITCHED 13A SINGLE SOCKET OUTLET
	SWITCHED 13A SINGLE SOCKET OUTLET CL DENOTES CLEANERS SOCKET
2	SWITCHED 13A TWIN SOCKET OUTLET
	SWITCHED 13A FUSED SPUR
	UNSWITCHED 13A SPUR UNIT
*A DP	DOUBLE POLE SWITCH - RATING AS ANNOTATED
*A SPN	SP&N ISOLATOR - RATING AS ANNOTATED
*A TPN	TP&N ISOLATOR - RATING AS ANNOTATED
HD	HAND DRYER LINKED TO 13A SWITCHED FUSED SPUR
FB	FLOOR BOX - 2No TSSO, 2No RJ45 DATA OUTLET
	RJ45 DATA OUTLET
	2 COMPARTMENT FLOOR TRUNKING
	3 COMPARTMENT SKIRTING TRUNKING
	3 COMPARTMENT DADO TRUNKING RISER

ABBREVIATIONS:
FAP - FIRE ALARM PANEL
ACU - ACCESS CONTROL UNIT
DAP - DISABLED ACCESS PANEL
CPH - CEILING PANEL HEATER
DA - DISABLED ALARM
CAS - CASSETTE UNIT
ODU - OUTDOOR UNIT
MVHR - MECHANICAL VENTILATION WITH HEAT RECOVERY
WH - WATER HEATER
EF - EXTRACT FAN
PH - PANEL HEATER

This document and its contents are the property of the Purchaser/Employer and Crookes Walker Consulting. They may not be copied or reproduced in any way, in part or whole, without prior written approval of both parties. Violations will result in legal action.
This drawing shall be read in conjunction with the CWC Mechanical and / or Electrical Specification(s).
DO NOT SCALE FROM THIS DRAWING

DESIGNERS RISK ASSESSMENT
REFER TO APPENDIX 1 OF M&E SPECIFICATION FOR DESIGNERS RISK ASSESSMENT SCHEDULE

DRAWING BACKGROUND(S):

NOTES:

1. PLEASE NOTE THE PV DESIGN HAS BEEN COMPLETED BY SPECIALIST DESIGNERS, THE CONTRACTOR IS TO VERIFY THE DESIGN MEETS ALL CURRENT AND RELEVANT LEGISLATION. ANY QUERIES ON THE DESIGN ARE TO BE SENT TO:
   'LEWIS.DICKINSON@YESSS.CO.UK'
2. PLEASE NOTE THE EXTENSION OF THE LIGHTNING PROTECTION SYSTEM HAS BEEN QUOTED FOR AND DESIGNED BY GARY SELF FROM BEST LIGHTNING PROTECTION. FOR ANY ENQUIRIES ON THE EXTENSION OF THE LIGHTNING PROTECTION SYSTEM SHOULD BE SENT TO:
   'GARY@BESTSERVICES.CO.UK'

Rev	Date	Description	Eng	Chk
P2	10.01.23	PLANNING ISSUE	JS	NS
P1	14.12.22	PRELIMINARY ISSUE	JS	NS

CWC crookes walker consulting
Suite 9a, Bloc, 17 Marble Street
Manchester M2 3AW
Tel: 0161 834 9999
The Plaza, Old Hall Street,
Liverpool L3 9QJ
Tel: 0151 600 5409
55 Colmore Row, Birmingham B3 2AA
Tel: 0121 262 4046
E-mail: admin@cwcon.co.uk
Website: www.cwcon.co.uk

Client
SIXTEEN REAL ESTATE

Project
ARTHUR HOUSE

Drawing Title
ROOF LEVEL
ELECTRICAL SERVICES

Status
PRELIMINARY

Project No.	Drawn	Scale / Paper Size
2677	JS	1:100 @ A0

Drawing No. 2677-CWC-RF-DR-E-6201 Rev P2