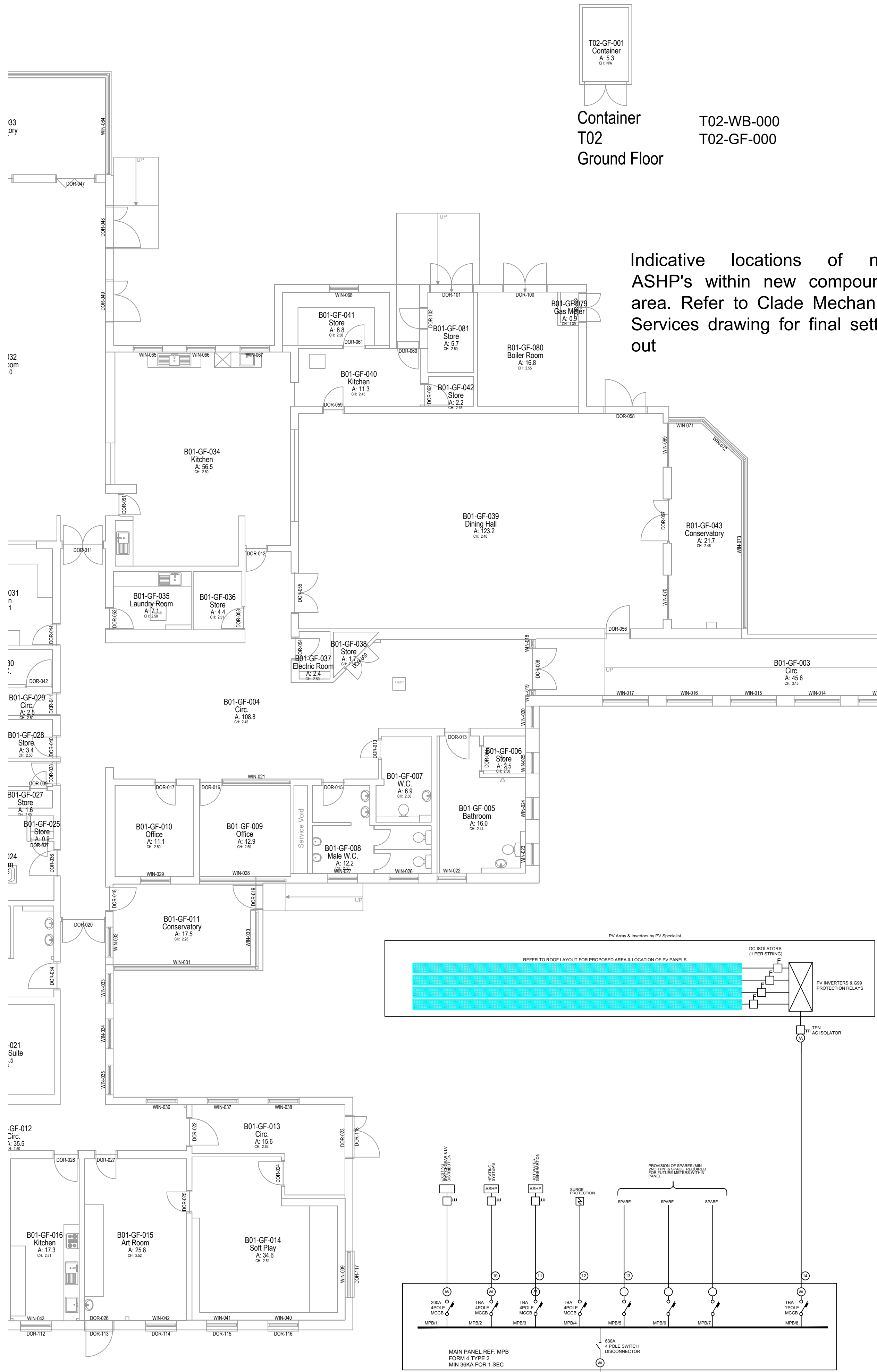




Indicative locations of new ASHP's within new compound area. Refer to Clade Mechanical Services drawing for final setting out

Indicative position of new Main MCCB Panelboard and meter panel to provide supply to existing and new switchgear installations

Indicative position of new ENWL Head End & Meter Panel, as typical ENWL detail.

Containment & cabling exists the building and routes across at high level above the windowline to external isolators & ASHP's

Existing Standby Generator providing secondary power supply to Evacuation Lift Installation via changeover installations within the lift motor room.

Existing ENWL Building supply cable to be identified by the contractor and made safe by ENWL following installation of new service

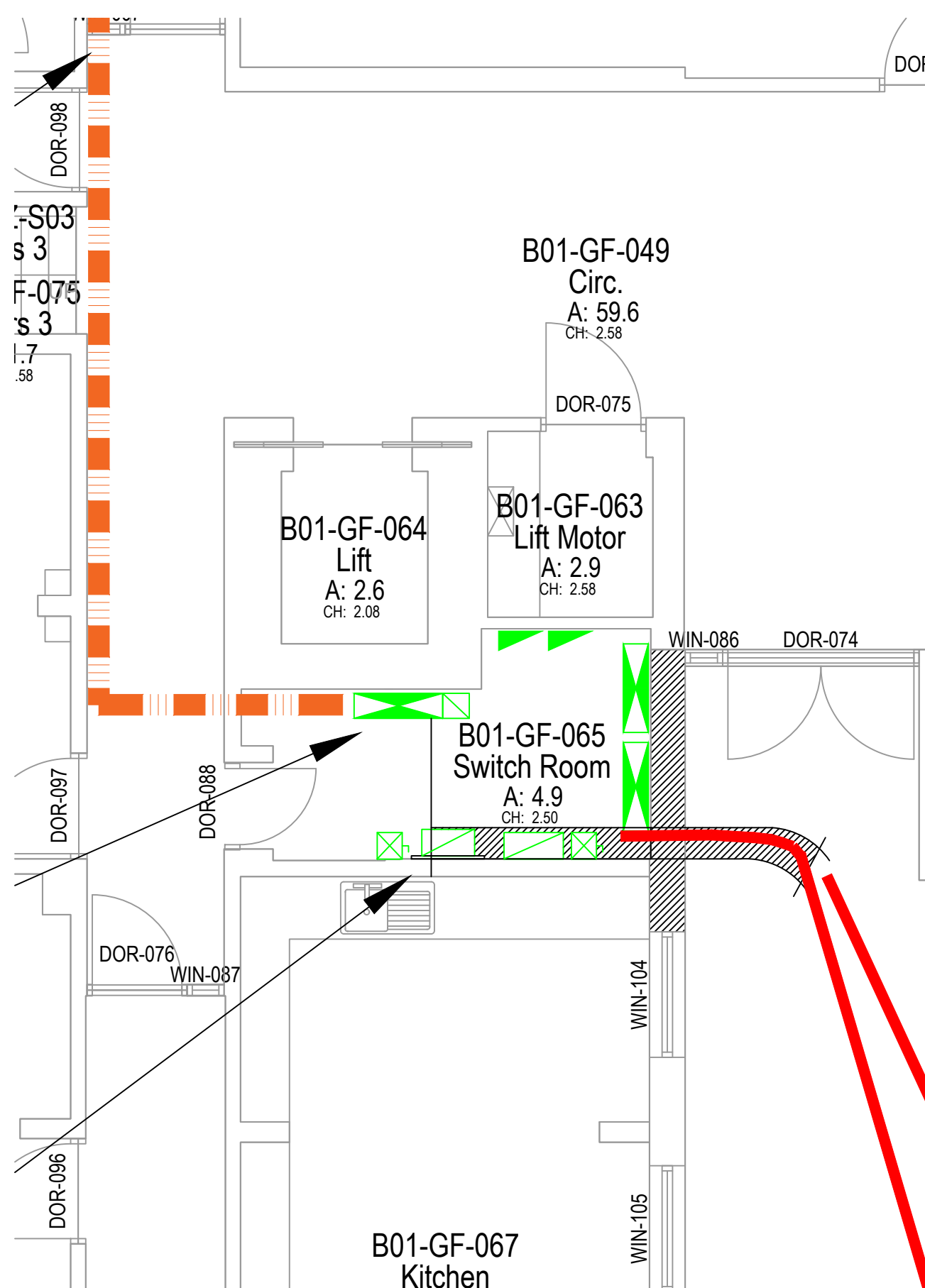
Hall Lane Resource Centre
000077239711
000077239711
Total site area:
Gross external area: 3590.8
Gross internal area: 3397.7
Total room area: 3256.3
Net internal area: 1400.0
Building footprint area: 2041.4

New incoming LV supply from new utility substation. Contractor to excavate and reinstate up to substation and from substation to site boundary for cable installations.

Indicative locations of existing utility Head end, meters and switchgear installations.

N.B Proposed remodelling of existing space to provide space for new switchgear installations.

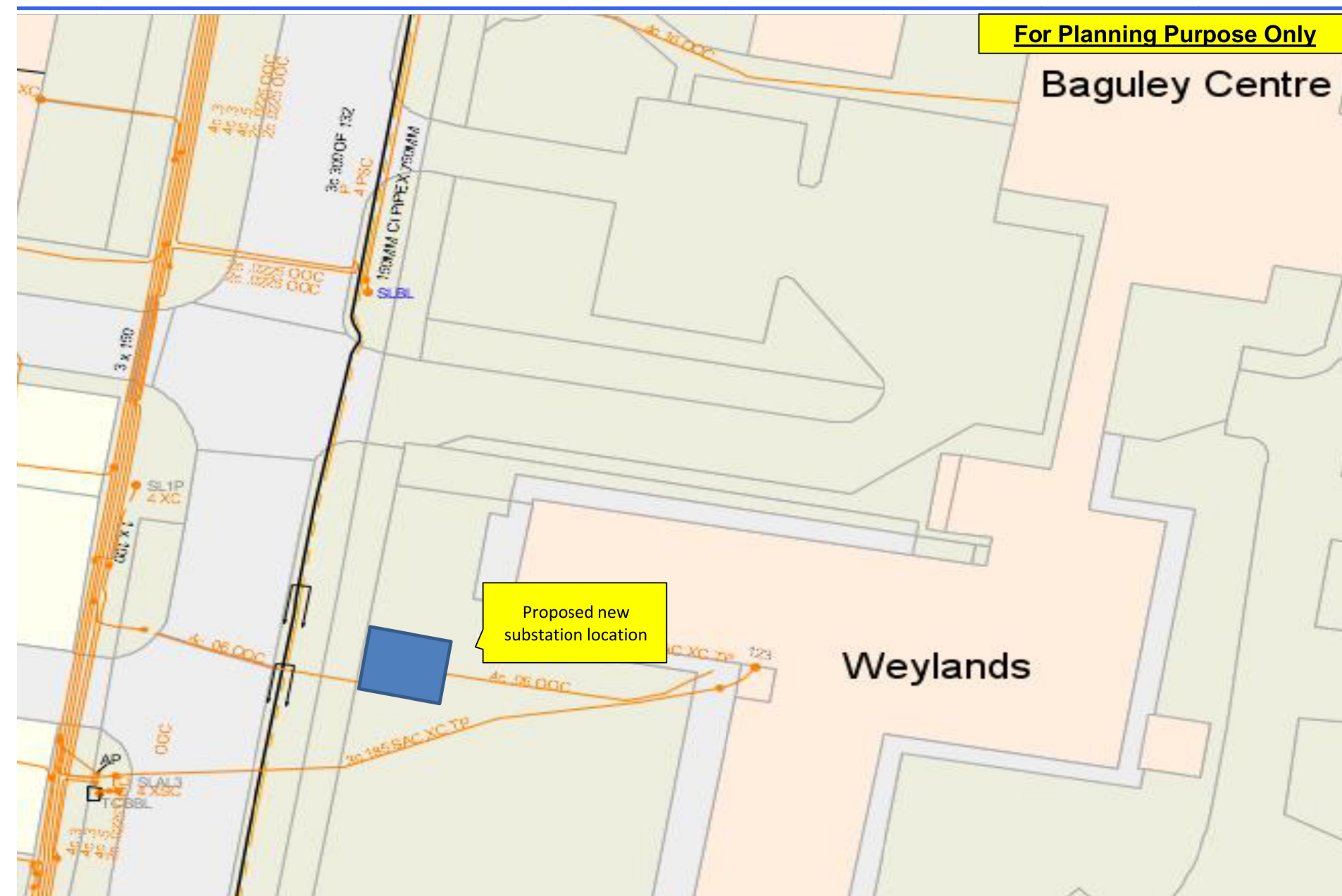
EXISTING LV SWITCHROOM ARRANGEMENT



PROPOSED LV SWITCHROOM ARRANGEMENT

- GENERAL NOTES:
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND MEP SPECIFICATIONS.
 - DURING THE TENDER COSTING PERIOD THE CONTRACTOR SHALL VISIT SITE TO FAMILIARISE WITH THE SITE INSTALLATIONS.
 - ALL ELECTRICAL INSTALLATION WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS7671 INCORPORATING ALL CURRENT AMENDMENTS.
 - ALL SUB-MAIN CABLES SHALL BE XLPE/SW/ALSOH (LSF) INSULATED UNLESS STATED OTHERWISE.
 - ALL CABLES TO BE EURO CLASS CCA S18, D2, A2 MINIMUM.
 - NEW SUBMANS CABLEING INSTALLATIONS ROUTING TO SERVE ASHP'S SHALL BE ROUTED VIA CEILING VOIDS WHERE VIABLE. ALTERNATIVELY THE CABLES SHALL BE FIXED TO GALVANISED STEEL CONTAINMENT INSTALLATIONS LOCATED AT HIGH LEVEL IN THE CORNER / CEILING AREA OF CORRIDORS AND ROOMS, AND BOXED IN PAINTED FOR AESTHETICS.
 - ALL DISTRIBUTION BOARDS / SWITCHBOARDS SHALL HAVE 20% SPARE LOAD CAPACITY AND 25% SPARE WAYS (MINIMUM OF 2NO TPN).
 - THE NEW MAIN MCCB PANEL BOARD SHALL BE OF SCHNEIDER (SQUARE D MANUFACTURE) AS THE EXISTING SWITCHGEAR INSTALLATIONS, AND SHAL BE PROVIDED WITH TYPE 1 SPD DEVICE AND METERING SECTION FOR INCOMER AND ALL CONNECTED OUTGOING WAYS. THE INCOMING SERVICE SHALL BE COMMENSURATE WITH A 300kVA RATED INCOMING SERVICE.
 - THE NEW MAIN LV MCCB PANELBOARD SHALL PROVIDE SUPPLY TO THE EXISTING BUILDINGS LV DISTRIBUTION SWITCHGEAR INSTALLATIONS VIA CONNECTION TO THE EXISTING MAIN LV ISOLATION SWITCH AND PROTECTED VIA SUITABLE RATED MCCB DEVICE. THE NEW PANELBOARD SHALL ALSO PROVIDE SEPARATE SUPPLIES TO EACH OF THE NEW SOLAR PV ASHP'S. REFER TO THE MECHANICAL SERVICE PLANT / EQUIPMENT SCHEDULES FOR ASHP REQUIREMENTS BY CLANCY AND BY CLADE FOR DETAILS.
 - THE CONTRACTOR SHALL PROVIDE A NEW SUITABLY RATED ISOLATOR TO INTERFACE BETWEEN THE NEW UTILITY HEAD END PANEL AND THE NEW MAIN LV MCCB PANEL BOARD.
 - THE UTILITY ENWL SHALL PROVIDE A NEW UPGRADED INCOMING SERVICE TERMINATING AT A NEW UPGRADED HEAD & METERING PANEL. THE CONTRACTOR SHALL LIASE AND COORDINATE THE INSTALLATIONS WITH ENWL FOR PROVISION OF THE NEW INCOMING SUPPLY AND FOR MAKING SAFE REMOVAL OF THE EXISTING INCOMING SERVICE AND STRIPPING OUT OF ALL REDUNDANT UTILITY EQUIPMENT.
 - ALL METERING SHALL HAVE THE FACILITY TO REPORT BACK TO THE MONITORING AND TARGETING SOLUTION (BMS CONTROL PANEL). THE USE OF PULSE OR MODBUS OUTPUTS MAY BE PROVIDED DEPENDING ON M&T SOLUTION (TBC WITH CONTROLS PROVIDER).

- EQUIPMENT LEGEND:
- LV MCCB PANEL / SECTION BOARD
 - FINAL CIRCUIT DISTRIBUTION BOARD
 - DNO HEAD END & METER PANEL
 - TPN ISOLATOR
 - UTILITY LV SUPPLY CABLE (DUCTED INTO BUILDING)
 - INDICATIVE PRIMARY CONTAINMENT & SUBMAIN CABLE ROUTE

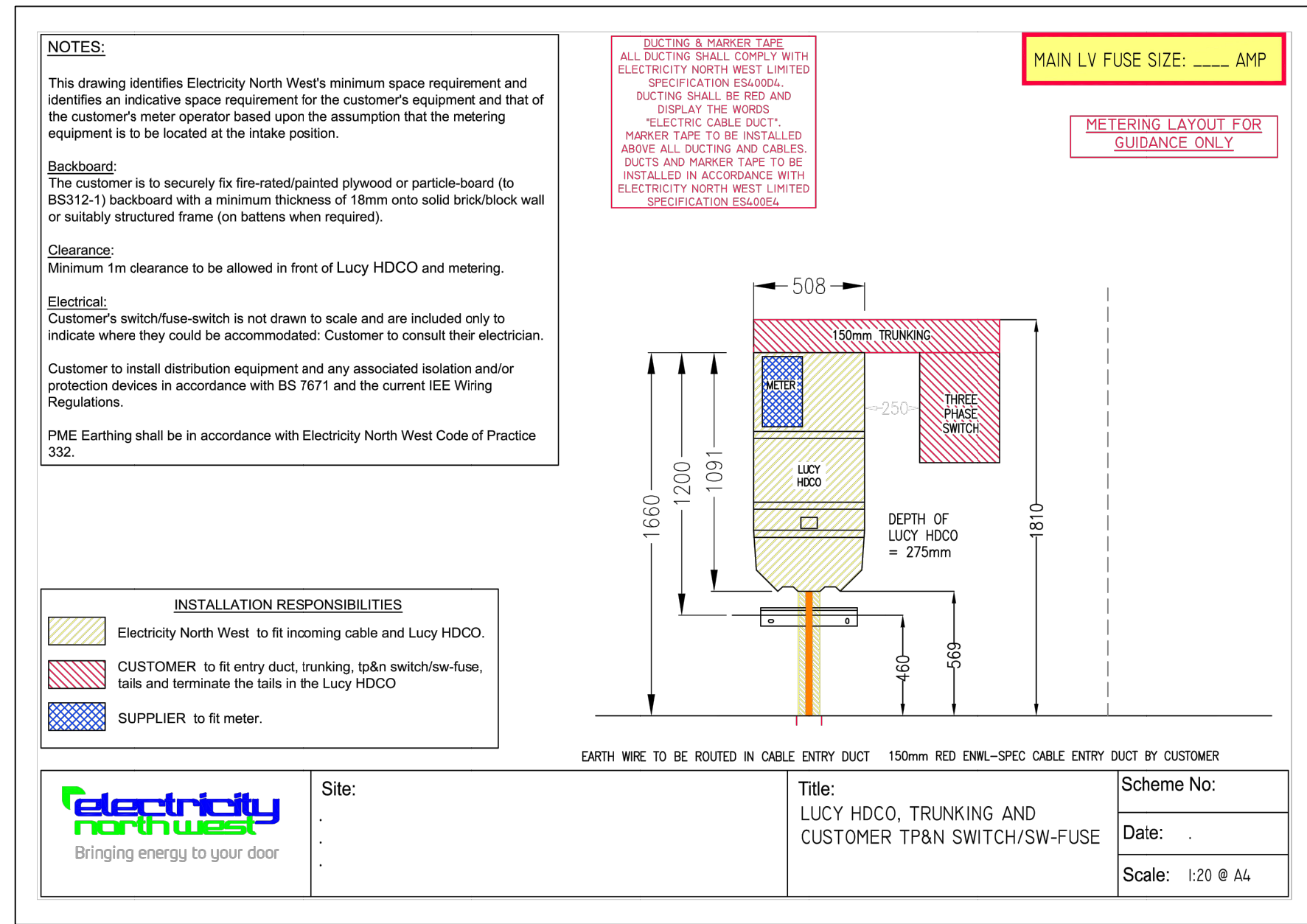


ENWL PROPOSAL FOR NEW UTILITY SUBSTATION - NTS

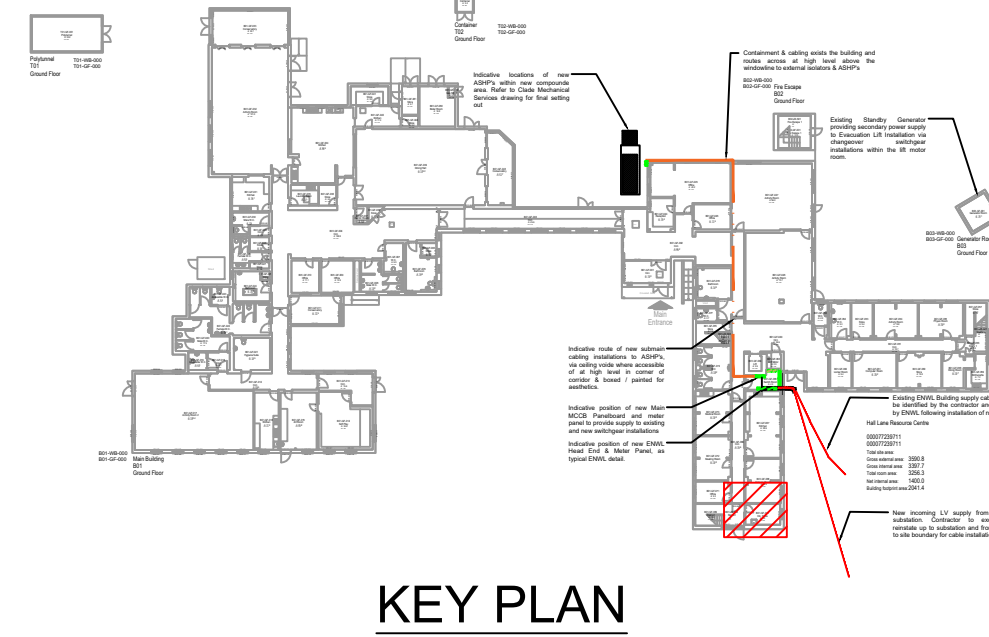


ARIAL VIEW OF PROPERTY NTS.

SITE PLAN - KEY AREAS - 1:100



ENWL INDICATIVE * HEAD END PANEL - NTS.



KEY PLAN

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX			
Construction Risks			
- ELECTROUTION, VERIFY EXISTING UNDERGROUND & ABOVE GROUND INSTALLATIONS PRIOR TO COMMENCING ANY WORKS			
- Enter text here / Delete text where necessary			
Maintenance/Changing Risks			
- Enter text here / Delete text where necessary			
Demolition/Adaptation Risks			
- Enter text here / Delete text where necessary			
In addition to the hazards risks normally associated with the type of work detailed on this drawing - the contractor is to take note of the above & also the hazards identified in the risk assessment document. It is assumed that all works detailed on this drawing will be performed by a competent contractor working, where appropriate, to an approved method statement.			

Rev	Date	Description	IS	CHK	JB
1	15/11/22	INITIAL ISSUE	IS	CHK	JB

Client	MCC / EQUANS		
Project	PSDS3 Decarbonisation Works Hall Lane Resource Centre		
Office	Atrincham		
Discipline	Electrical		
Title	Indicative LV Distribution & Switchroom Layout		
Scale @ A0	1:100	Status	Stage 3 - Tender

www.clancy.co.uk			
Project No.	Originator	Building	Level
7-10045	CCL	HLC	00
Type	Discipline	Drawing No.	Revision
E	R	6100	1