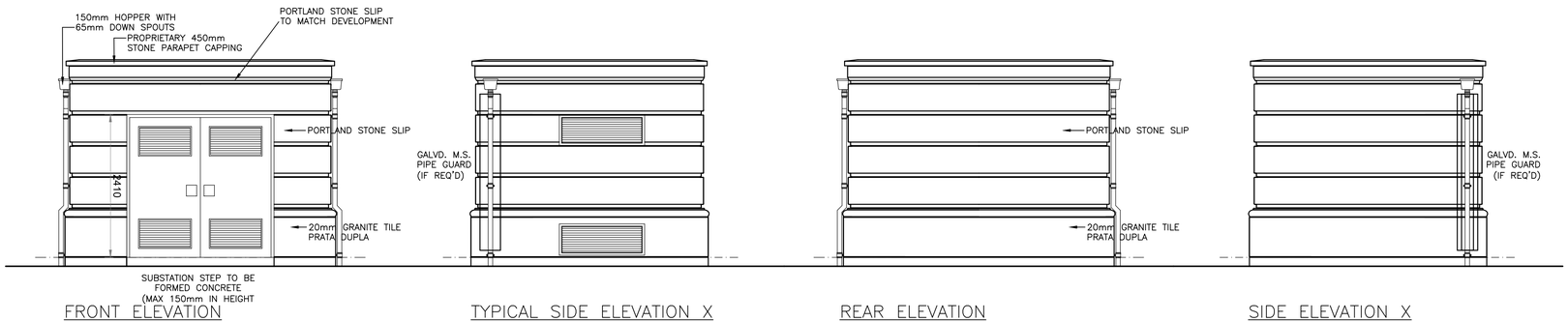
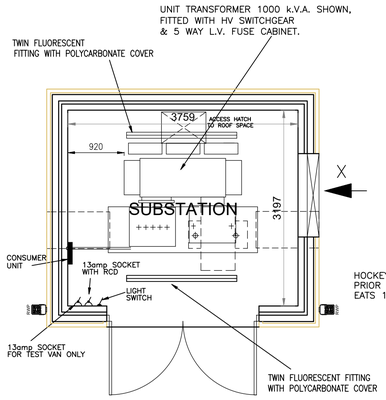
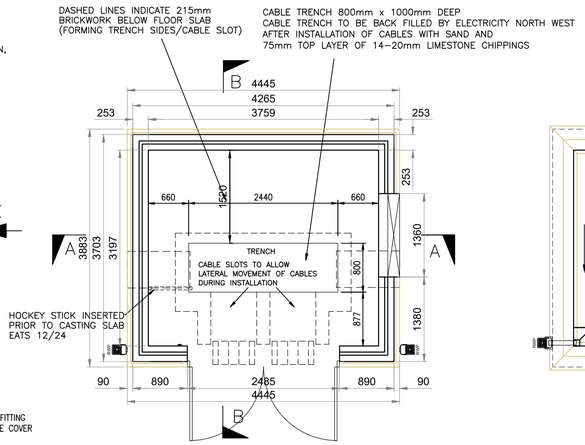


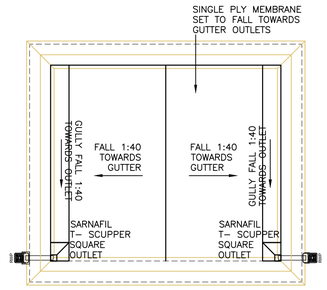
FRONT ELEVATION | TYPICAL SIDE ELEVATION X | REAR ELEVATION | SIDE ELEVATION X

NOTE:
CAPABLE OF RECEIVING
'MERLIN GERIN' or
LUCY 'SABRE' HV SWITCHGEAR

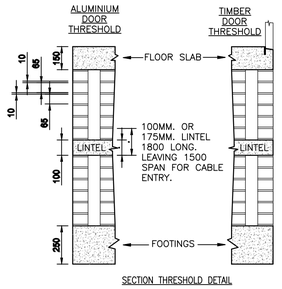




FLOOR PLAN

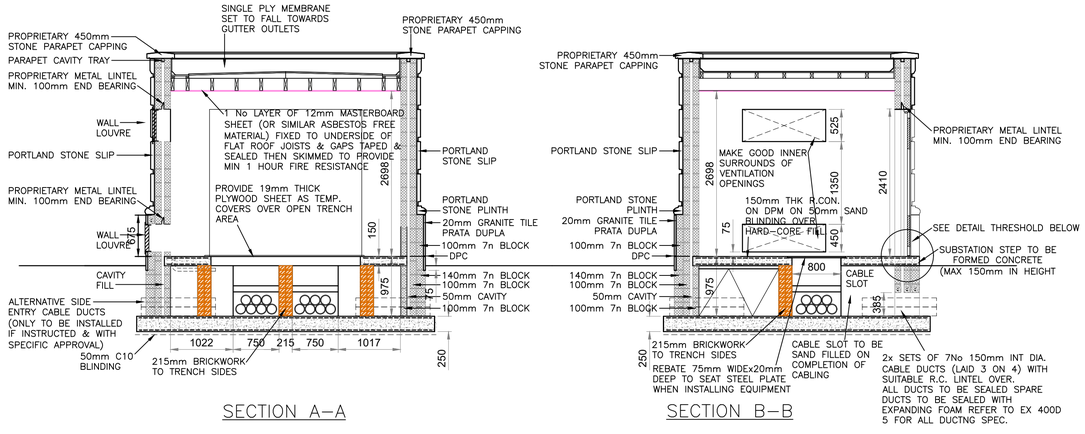


ROOF PLAN



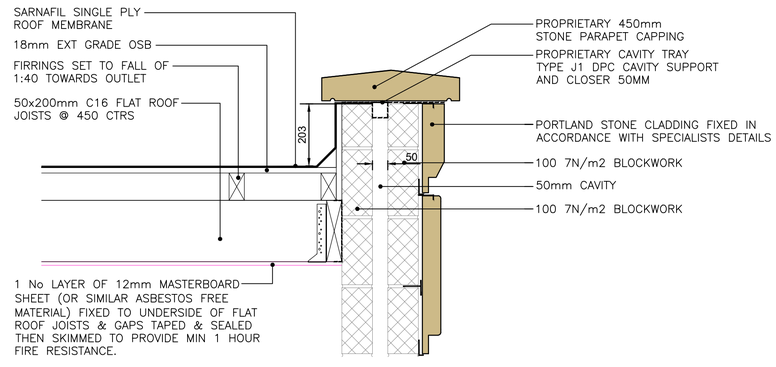
SECTION THRESHOLD DETAIL

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ELECTRICITY NORTH WEST ES 352, ES 397 & ES 326 AND ALL ASSOCIATED WORKS MUST COMPLY WITH THIS INFORMATION AND DETAIL IN FULL



SECTION A–A

SECTION B–B



PARAPET DETAIL

NOTES:

CONCRETE FOR BASES TO BE 1:2:4 MIX OF ORDINARY PORTLAND CEMENT
CONCRETE 35N/mm² (28 DAY STRENGTH)
20mm AGGREGATE SHALL BE PLACED & COMPACTED WITHIN ADEQUATE FORMWORK TO ENSURE THAT THE TOP SURFACES ARE TRUE TO PLANE WITH LEVEL FAIR FACE TROWEL FINISH.
NO DRILLING TO TAKE PLACE WITHIN 28 DAYS OF CASTING.
NO PERCUSSION DRILLS TO BE USED ONLY ROTARY DRILLS.
DO NOT OVER TIGHTEN BOLTS.
TYPICAL MAX WEIGHT OF PLANT = 6000Kg.

FOUNDATIONS – TO BE TAKEN DOWN TO GROUND THAT IS SUFFICIENTLY FIRM TO PROVIDE PHYSICAL SUPPORT TO THE STRUCTURE. SITE PHOTO'S TO BE TAKEN INDICATING EVIDENCE OF FOUNDATION DEPTH WHERE INCREASED DIG IS GREATER THAN 400mm.
THESE WILL BE PROVIDED FOR PAYMENT AND AUDIT PURPOSES.
FOUNDATIONS/PLINTH MUST BE SUITABLE WITH RESPECT TO GROUND CONDITIONS AND LOADING, AND MUST BE APPROVED BY ON–SITE STRUCTURAL ENGINEER.

CABLE TRENCH TO BE 800mm WIDE & 1000mm DEEP. CABLE TRENCH TO BE BACK–FILLED AFTER INSTALLATION OF CABLES WITH SAND AND 75mm TOP LAYER OF 14–20mm LIMESTONE CHIPPINGS.

FOR DESIGN PURPOSES, OPERATIONAL & JOINTING CLEARANCES HAVE BEEN BASED ON A 1000KVA TRANSFORMER & 5 WAY FUSE CABINET AS SHOWN.

SURFACE WATER DRAIN TO BE CONNECTED TO EXISTING IN A MANNER & AT A POINT TO BE AGREED WITH THE LOCAL AUTHORITY.

CABLE DUCTS TO BE SEALED AFTER INSTALLATION OF CABLES. SPARE DUCTS TO BE SEALED WITH EXPANDING FOAM AND DUCTS WITH CABLES TO BE SEALED. REFER TO ES 400 D 5 FOR ALL DUCTING SPECIFICATIONS.

WALLS – FOUNDATION TO GROUND LEVEL: TRENCH BLOCK OR 3NO LEAVES OF ENGINEERING QUALITY BRICKWORK WITH 50MM CAVITY FILLED WITH WEAK MIX CONCRETE.
GROUND TO DAMP PROOF COURSE (DPC) LEVEL: 140MM 7N/m2 BLOCKWORK OUTER LEAF TO CARRY PLINTH, 100MM 7N/m2 BLOCKWORK CENTRAL LEAF & 100MM 7N/m2 BLOCKWORK INNER LEAF. WALLS TO BE OVER CLAD USING 60mm PORTLAND STONE SLIPS WITH GRANITE PLINTH TILE
HORIZONTAL DPC IN PITCH POLYMER, OR SIMILAR ALL AROUND.
ABOVE DPC LEVEL 2x100 7N/m2 BLOCKWORK (UPTO 675mm ABOVE DPC) REDUCING TO 100 7N/m2 BLOCKWORK OVER PLINTH OUTER LEAF, 50mm CAVITY WITH 100 7N/m2 BLOCKWORK INNER LEAF.
CAVITY WAL LTIES: HALFEN HTS C12x200mm STAINLESS STEEL CAVITY TIES AT MAX 750mm HORIZONTAL CTRS, 450mm VERTICAL CENTRES & 225mm VERTICAL CTRS WHERE WITHIN 300mm OF THE ANY OPENING.
LINTEL OVER DOOR: HARVEY A/MC80EB/F IN STAINLESS STEEL, OR SIMILAR APPROVED. WITH MIN 150MM END BEARINGS.
MORTAR: CEMENT:LIME:SAND 1:1:6 MIX CIOLOUR NATURAL WITH BICKET HANDLE POINTING
CAVITY CLOSERS: BLOCKWORK RETURNED AGAINST THE BLOCKWORK AT OPENINGS TO INCLUDE A VERTICAL DPC.

FLOORS – STEEL FLOAT FINISH TO 3mm IN 3m LENGTH 150mm THK. C35 REINF. CONCRETE WITH A252 MESH AT BOTTOM + (40mm COVER) ON D.P.M. AND 50mm SAND BLONDING – OVER COMPACTED HARDCORE FILL. EXTRA REINFORCEMENT REQUIRED OVER CABLE SLOTS (SEE THRESHOLD DETAIL)

ROOF – SINGLE PLY ROOF MEMBRANE SIKA OR SIMILAR APPROVED ON 18mm OSB SET TO FALL OF 1:40 TOWARDS OUTLETS ON 50x200 C16 FLAT ROOF JOISTS AT 450 CTRS. FLAT ROOF JOISTS ARE TO BE UNDERDRAWN UISING 1 No LAYER OF 12mm MASTERBOARD SHEET (OR SIMILAR ASBESTOS FREE MATERIAL) FIXED TO UNDERSIDE OF FLAT ROOF JOISTS & GAPS TAPED & SEALED THEN SKIMMED TO PROVIDE MIN 1 HOUR FIRE RESISTANCE

LIGHTING & POWER – TO BE INSTALLED IN ACCORDANCE WITH ES 397.

DOORS – LOUVRE–VENTED DOORS & IRONMONGERY TO ELECTRICITY NORTH WEST STANDARD SPECIFICATION

NOTES

ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO ANY MANUFACTURING OR FABRICATION AND ANY ANOMALIES TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

MATERIAL PALETTE



STEEL DOORS - RAL 7016

0 1 2m
SCALE 1:50

REV	AMENDMENTS	BY	DATE
P3	DRAWING UPDATED	SM	20.02.26
P2	DRAWING UPDATED	SM	19.01.26
P1	FIRST ISSUE	SM	01.08.25

ISSUED FOR CONSTRUCTION
TO BE READ IN CONJUNCTION WITH STRUCTURAL DRAWINGS & CONSTRUCTION NOTES

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
BARCLAY HOUSE
WHITWORTH STREET WEST
MANCHESTER

CLIENT
PLP CONSTRUCTION LTD

DRAWING TITLE
PROPOSED SUBSTATION DRAWING

DRAWN S MCKIERNAN
CHECKED
APPROVED
DATE 01.08.2025
SCALE 1/50 (A1)

HOWARD & SEDDON A.R.I.B.A.
CHARTERED ARCHITECTS
64 WASHWAY ROAD
SALE, CHESHIRE, M33 7RE
TEL NO. 0161 - 973 8296
FAX NO. 0161 - 962 3485
E-MAIL : ADMIN@HOWARDANDSEDDON.CO.UK

JOB No. 12982
DRG No. 2060
REVISION P3