GTC Plan Enquiry, Our Ref 3137800. Your Ref 4138548 generated for amanda.white@apogeeutilityconsultants.co.uk at 05/03/2025 15:28:16. This drawing is reproduced from our records archive at the time of enquiry.

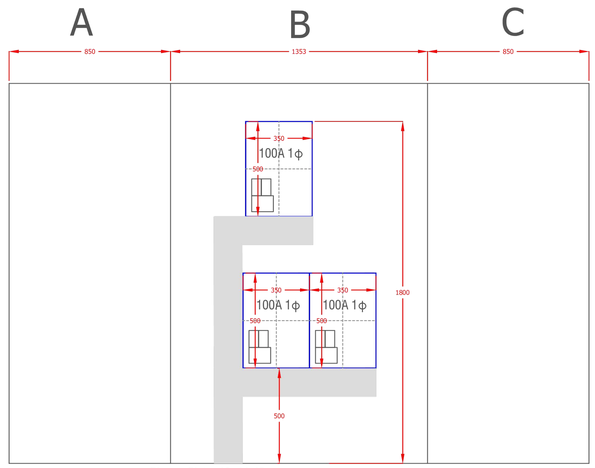
appendix_1_of_2

Authorised by

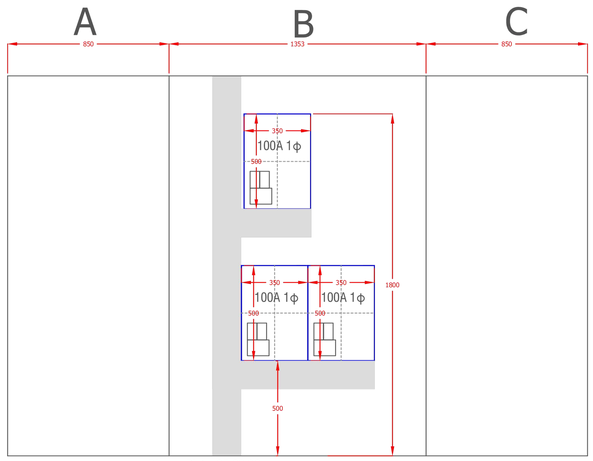
MARTIN WILLIAMS 11.07.2024

RISER DESIGN

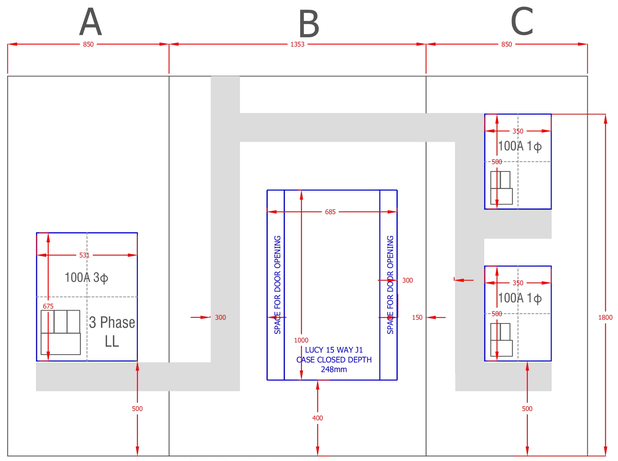
Where GTC equipment is to be installed on non-brick/block walls, the developer must install a steel sheet minimum 1mm thick to mount apparatus onto.
See specification notes for more information



Risers: Plots 40 ,41,42

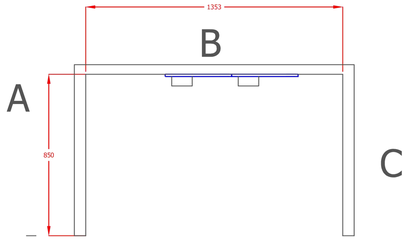


Risers: Plots 37,38,39

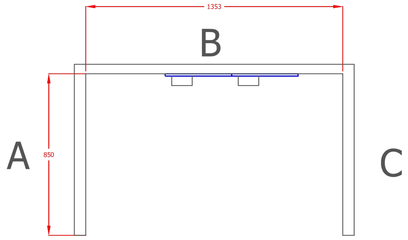


Risers: Plots 35 - 36+ 14kva 3phase LL

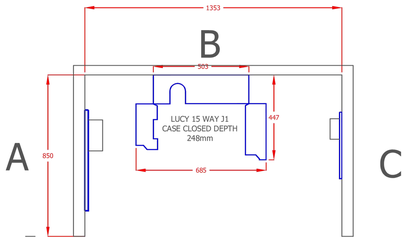
GROUND FLOOR ELEVATION



SECOND FLOOR

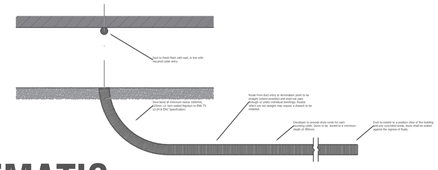


FIRST FLOOR

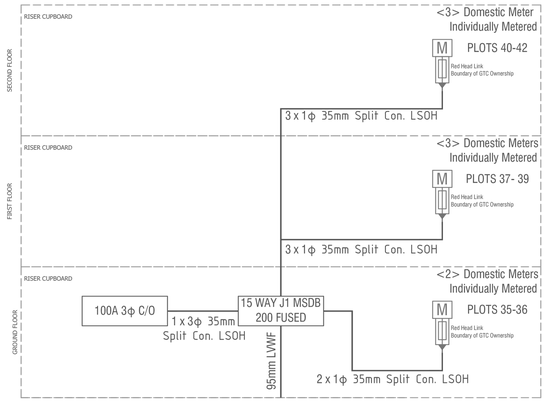


PLAN

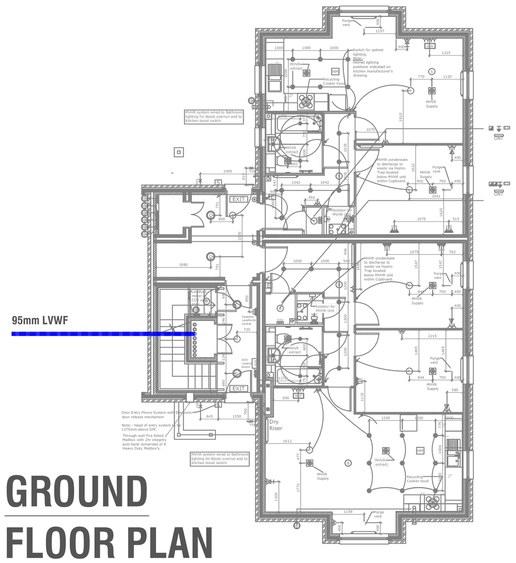
SCHEMATIC



REQUIRED FOR STRAIGHT CABLE ROUTES



GROUND FLOOR PLAN



Specification Notes

Intake Position:
Multiple intake positions are sanctioned only where there is no possibility of access from one block to another block internally.
The intake position must be designed so that it is as close as practicable to the point of entry to the building, and sited adjoining an outside wall wherever possible.
The intake position must be sited at ground level, basement intake positions are not permitted.

The intake position shall comply with all Building Control and Fire Regulations. It must not be a confined space as defined in the Confined Space Regulations 1997.

ENC Equipment within a Protected Stairway shall comply with BS9999 and all relevant Building Regulations.

24 Hour access for ENC and Meter Operator staff must be availible. It shall have adequate physical access and means of escape.

It shall be lockable and must not be used as a store cupboard.
Adequate lighting shall be provided.
It shall be weatherproof and dry in a non-corrosive atmosphere and naturally ventilated.
The ambient temperature shall not exceed 30°C.
Sufficient space shall be provided for the safe installation and operation of all necessary switchgear and any metering equipment.

Group Meter Positions:

Group meter positions must be formed in brick or blockwork only.
The provision of brick or block behind the outdoor meter cabinet or internal meter position may not always be possible i.e. in timber framed buildings.
In such circumstances the wall behind the service/metering equipment must be fitted with a steel sheet (min. 1mm thick) bonded to the cutout PME terminal.

Cable Tray:
Cable tray systems are to be provided by the developer at no cost to GTC.
Cable tray systems must comply with BS 61537.
Galvanised Admirality Pattern or similar must be used.
The cable tray must be for the exclusive use of GTC, no other services are permitted to be installed on the same containment system.
Cable tray fixings must be suitably spaced to support the weight of the tray.
Cables to be spaced 1 diameter apart to avoid de-rating.
Single phase services and Single core cables shall be grouped to reduce the detrimental impact of thermal conductivity - groups in 3s -L1, L2, L3.
All cables should be laid on a cable tray and not suspended and should be fixed with metal cable ties as per GE-CIC-TB-0040

Cable Routing:
Each service cable and associated containment systems must be routed exclusively through communal areas. No service is permitted to pass through a dwelling which it does not serve.
Single phase service cable to be run in trefoil wherever possible

Lateral mains and services are not permitted to be installed in permanent ceilings.

Cable Access:
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Labeling:
All GTC equipment must be adequately labeled.
A schematic diagram for the entire building shall be stored in each riser position, illustrating which position the user is at and where the other points of isolation of the building are (if any).

Electricity in Flats Checklist:
1. Building Construction Type: Traditional
2. Meter Locations: Communal - Each floor
3. Isolation Point: MSDB Ground floor
4. Single or Multiple Entries: Single

Cable Data for Containment/Support System Designs					
Area	**Unit**	**Parameter**			
Cross Sectional Area	mm²	35	95	185	300
Approx. Diameter	mm	23	35	46	55
Approx. Weight	kg/m	1	2	4	5
Min. Bending Radius	mm	250	550	700	850
Maximum No. of Cables per Tray					
Cable Size	**Notes**	**450mm Tray**		**600mm Tray**	
35mm² Split Concentric LSOH	Trefoil	27		36	
95mm² LSOH		7		9	
185mm² LSOH		5		7	
300mm² LSOH		3		6	

This plan shows those cables owned by The Electricity Network Company Ltd. Electric cables owned by other operators or otherwise privately owned, may be present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, it's agents, servants or contractors for any error or ommision. Safe digging practices, in accordance with HSG047, must be used to verify and establish the actual position of cables, services and other equipment on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electrical equipment.

This electrical network design has been carried out by :

Electricity Network Manager
GTC
Woolpit Business Park
Bury St Edmunds
Suffolk
IP30 9UP
Tel : 01359 240363
Fax : 01359 244398
www.gtc-uk.co.uk

All cables and equipment used on this design are to be in accordance with G81 standards.

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Drawing Scale :	NTS
O.S.REF :	509381, 115222
Network Number :	N0022680-1
Project Number :	
Drawing Number :	EN0022680-1_R1-0_2_of_2
Developer :	Croudace Homes
Location :	DOWNSIDE AVENUE, STORRINGTON, PULBOROUGH plots 35-42

SHEET SIZE A1

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appendix_2_of_2
Authorised by

MARTIN WILLIAMS 11.07.2024

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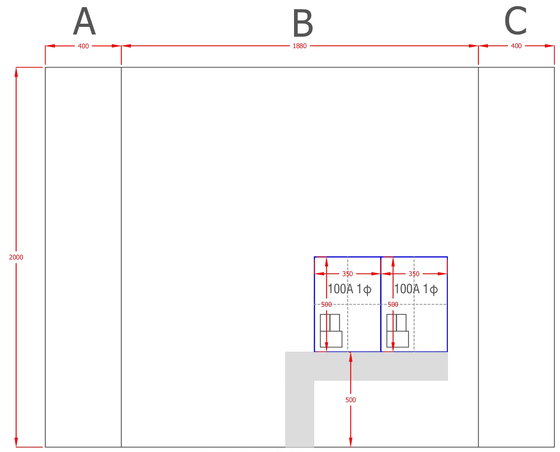
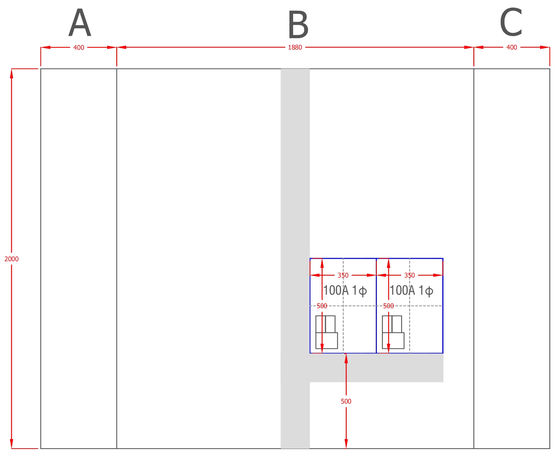
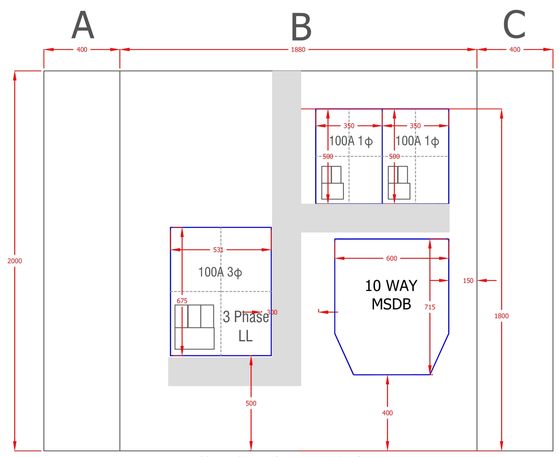


Risers: Plots 47, 48

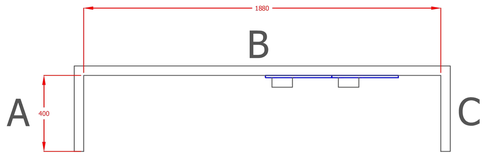


Risers: Plots 45 and 46

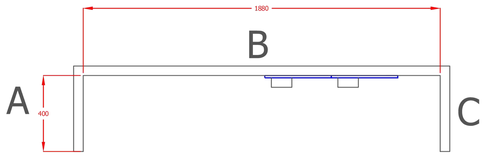


Risers: Plots 43 - 44+ 14KVA 3phase LL

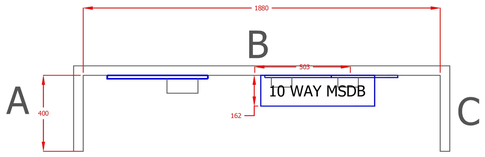
GROUND FLOOR ELEVATION



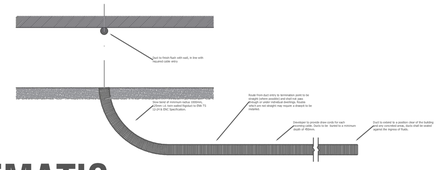
PLAN



PLAN



PLAN



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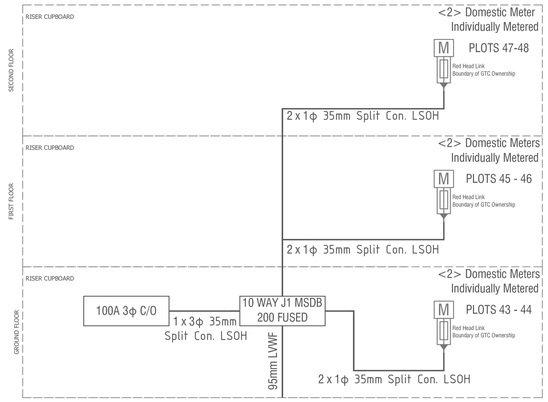
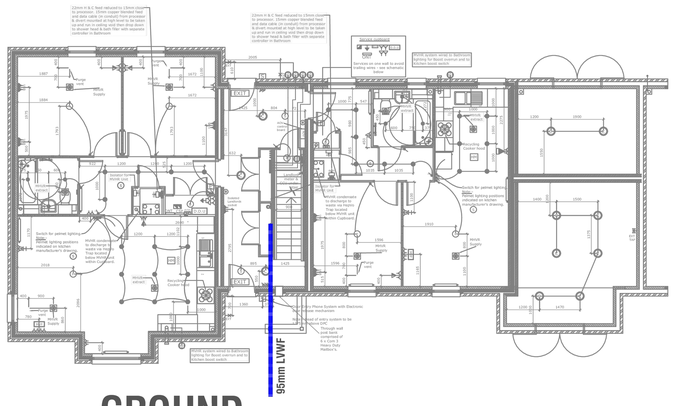
SCHEMATIC





GROUND FLOOR PLAN

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Drawing Scale :	NTS
O.S.REF :	509381, 115222
Network Number :	N0022680-1
Project Number :	
Drawing Number :	EN0022680-1_R1-0_1_of_2
Developer :	Croudace Homes
Location :	DOWNSIDE AVENUE, STORRINGTON, PULBOROUGH plots 43-48

SHEET SIZE A1

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N0022680 - Recent revisions

N0022680/Rev.

Rev	Comment	Date	Dwg. App.	
9.0	Updated layout due to moorhead mains diversion and service margin	19/02/25	DT	DT
8.0	Drill entry added - off Downsview Avenue	31/01/25	RR	RR
7.0	Add pumping station and 2 kiosks	17/07/24	DT	DT
6.0	Rewire to flats, schematics Plots 1-4 and 5-8 (flats)	15/07/24	JH	JH
5.0	Amendments as per updated service layout	20/06/24	KC	KC
4.0	Update of design for plots 53, 60 &Cyc Store(60), flatted plots	04/08/23	JD	JD
3.2	Category 1 Rein of elec mains added 80m of elec mains removed 2 elec	15/06/22	JS	JS
3.1	Category 1 Rein of elec mains added 202m of elec mains removed 2 elec	14/06/22	JS	JS
3.0	Category 1 247m of elec mains added 2 elec diverts added 2 elec mains removed 24 pr	14/03/22	TD	TD
2.0	Category 1 543m of elec mains added 50m of elec mains removed 2 elec diverts	31/12/21	DT	DT
1.0	Category1 200m of elec mains added 1 elec diverts added 3 elec mains	28/11/21	MG	MG

Revision History

14-02-2025

This design is across multiple drawings for details please refer to all drawings.

Trench Notes

All electric cable services and ducts that shall contain electric cables shall be installed with electric identifiable marker tape laid 200mm above the cable / duct. Electric mains and services should have a minimum of 200mm separation from other services.

BS4789 Specification

Directly buried cables should be surrounded by crete sand installed to BS4789 and be free from sharp objects and stones. Cable tiles should be placed on the bottom of the trench and a further 150mm above the cable for protection.

Ducting Specification

- All ducts and mains shall be 150mm rigid plastic duting compliant with the ENA TS 12-24
- Ducting for LV single phase services shall be 36mm outside diameter black (inner AND outer) rigid duting.
- Ducting should be used when taking cables across roads and into buildings.
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed pro duct.

Electric cable	Outside Diameter
Single Phase	36mm
3 Phase L.V.	150mm
HV	150mm

Service Sizes

Electric Supplies to properties are single phase Intelnr Al Cable terminated in c/w Bilg cut out except where specified.

Cable Colour Code

LV, 11kV conventional mains, the connected phases will be shown as red (R), yellow (Y), blue (B), black (BY = grey)

Marcel Specification

All cables, equipment and construction method on this network are to be installed to Marcel Specification.

Excavation Carried Out by BGAK

The trenches highlighted in blue will be excavated and reinstated by BGAK as part of the groundwork. Reinstatement of the other trenches will be the responsibility of the customer.

N0017899_E1 RH20 3QP

UKPN Cross Section Of Single LV Cable Laid Direct in footpath

Min 450mm | Tile Tape | 100mm

N0022680_E1 RH20 4PS

UKPN Cross Section Of Single LV Cable Ducted In Verge

Min 450mm | Marker Tape | 100mm

1 x 150mm RIGIDUCT

N0022680_E2 RH20 4PS

REQUIRED

UKPN twinwalled 150mm outside diameter (OD) black (Inner AND Outer) rigid polypipe duct (RB150X2) to be used for all UKPN ducting. No other colours will be accepted.

N0022680_E3 RH20 4PS

UKPN Cross Section Of single LV Cable Ducted In Carriageway

Min 600mm | Tile tape | 100mm

min 300mm

2 x 150mm RIGIDUCT

N0022680_E4 RH20 4PU

ENC Cross Section Of single LV Cable laid Direct In Footpath

Min 450mm | Tile tape | 240mm

N0022680_E5 RH20 4PU

ENC Cross Section Of single LV Cable laid Direct In Footpath

Min 450mm | Tile tape | 240mm

N0022680_E6 RH20 4PS

UKPN Cross Section Of Single LV Cable Laid Direct in footpath

Min 450mm | Tile Tape | 100mm

N0022680_E7 RH20 4PS

UKPN Cross Section Of Single LV Cable Laid Direct in Verge

Min 450mm | Tile Tape | 100mm

N0022680_E8 RH20 4PS

UKPN Cross Section Of Single LV Cable Laid Direct in footpath

Min 450mm | Tile Tape | 100mm

N0022680_E9 RH20 4PU

CAUTION SITE CONTAMINATION

Infrastructure not to progress until site remediation details are known and approved by Contaminated Land officer within the Design department or relevant Asset Manager drawing for information only.

N0022680_E10 RH20 4PU

CAUTION SITE CONTAMINATION

Infrastructure not to progress until site remediation details are known and approved by Contaminated Land officer within the Design dept and discuss compensation levels with site manager & DTC project manager prior to working on this site.

N0022680_Linkbox RH20 4PU_

Linkbox Details

Owned by: UKPN SPN
Volt drop (%): 0.5
Fuse size (A): 350

N0017899_LB1 RH20 3QP

Linkbox Details

Owned by: UKPN SPN
Volt drop (%): 0.75
Fuse size (A): 315

N0022680_poc RH20 4PS

POC Details

Name: POC
Capacity (kVA): 23
Ownership: 4320044340
Voltage: LV
Volt drop (%): 0.5
ECI (PQ): 0.5
Conn Type: Direct entry or upstream

N0017899_POC RH20 3QP

POC Details

Name: POC
Capacity (kVA): 23
Ownership: 4320012767/QID3200009170
Voltage: LV
Volt drop (%): 0.75
ECI (PQ): 0.5
Conn Type: Branch joint

Water Cable
HDPE Cable
Fibre Cable
Wire Cable
Duct Cable
Pole Cable
4 Core Cable
Service Cable
Cable Joint
Cable Joint
Pot Heads
Pot end Cable
Cable Joint
Pot Heads
Pot end Cable
Road Boundary
2 Way Link Box
Link Box
Link Box
Streetlight
Streetlight
Abandoned
To Disconnect

Proposed
Existing
Joint
Joint
Joint

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appendix_1_of_2

Authorised by

MARTIN WILLIAMS 11.07.2024

RISER DESIGN

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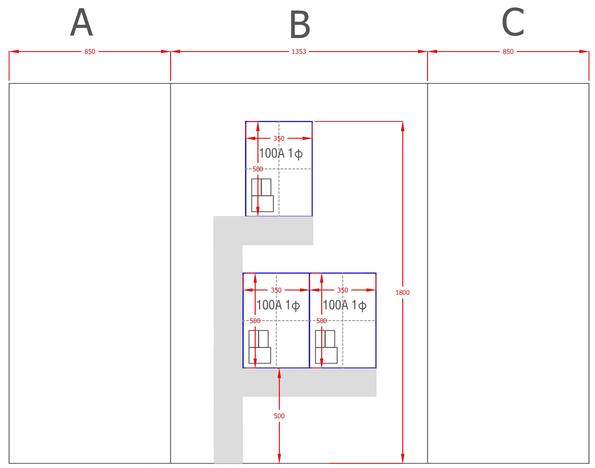
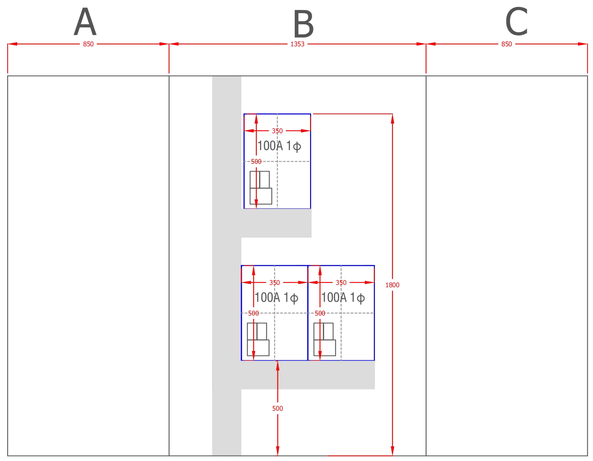
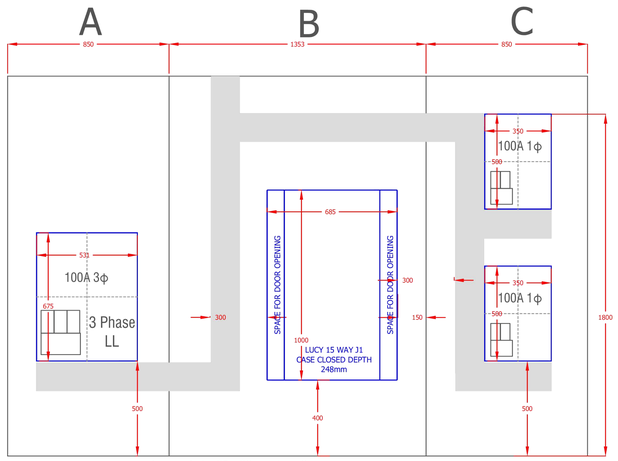
See specification notes for more information



Risers: Plots 40 ,41,42

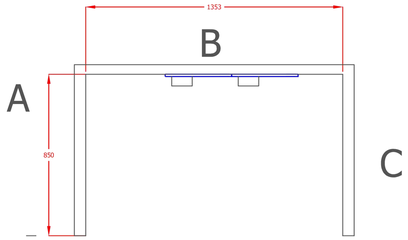


Risers: Plots 37,38,39

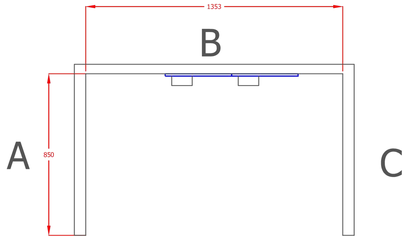


Risers: Plots 35 - 36+ 14kva 3phase LL

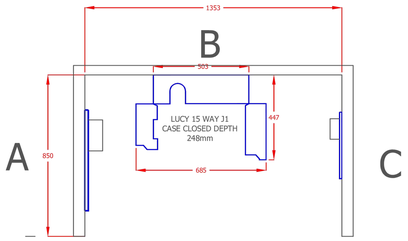
GROUND FLOOR ELEVATION



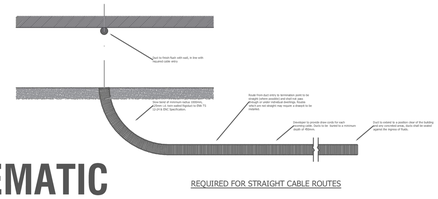
SECOND FLOOR



FIRST FLOOR

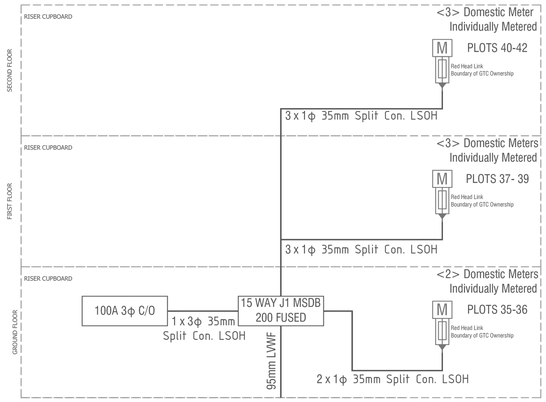


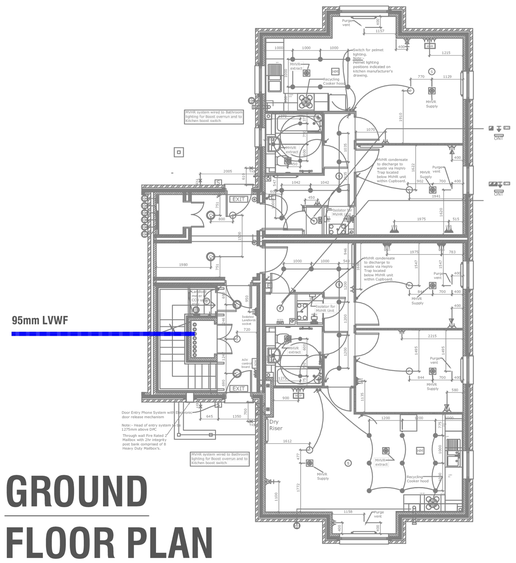
PLAN



REQUIRED FOR STRAIGHT CABLE ROUTES

SCHEMATIC




95mm LVWF
EXIT
EXIT
Dry Riser
Door Entry Phone System with door release mechanism
Note:- Head of entry system 1.275mm above UAL
Through wall Fire Rated 2 Hour Fire Rating Cable duct bulk comparted of 'I' Heavy Duty Mathon's.
Wall space owned by leaseholder. Lighting for Board reserve and to kitchen hood switch
Wall space owned by leaseholder. Lighting for Board reserve and to kitchen hood switch
Switch for period lighting
Note:- Lighting sections indicated on sheet manufacturer's drawing.
Cable condensate to discharge to waste via traps located below sink and below cooker
Cable condensate to discharge to waste via traps located below sink and below cooker
Supply
Supply
Supply