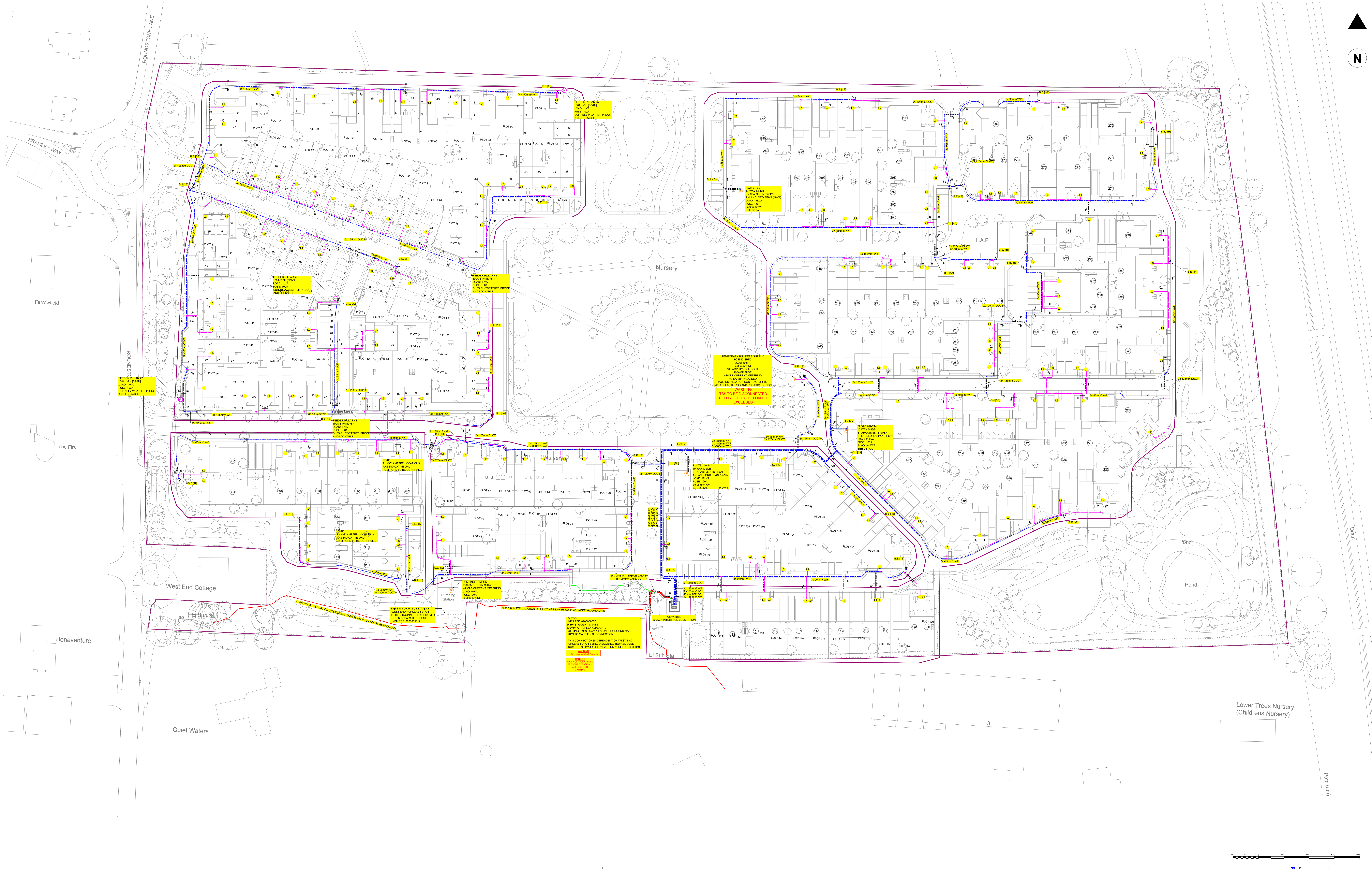
J	REMAINING PHASE ADDED	26-10-17	SC
I	69kVA TBS ADDED	13/06/2017	SE
H	18 PLOTS & LV MAINS ADDED	16/05/2017	SE
G	PLOT NUMBERS AMENDED	13/04/2017	SE
F	POC LOCATION & SITE BOUNDARY AMENDED	19/01/2017	SE
E	POC LOCATION, LV MAINS AMENDED & 5 FEEDER PILLARS ADDED	22/12/2016	SE
D	METER ROOM AMENDED	24/11/2016	SE
C	METER ROOM AMENDED	11/11/2016	DS
B	HV POC AMENDED	28/10/2016	DS
A	FOR APPROVAL	20/10/2016	PA
REV	REVISION NOTES	DATE	ENG.

ISSUED TO ENC
SELF APPROVED
02-11-17

ISSUED TO UKPN
SELF APPROVED
19-01-17


N
ROUNDSTONE LANE
BRAMLEY WAY
Farrowfield
The Firs
West End Cottage
Bonaventure
Quiet Waters
El Sub Sta
S/S
Nursery
L.A.P
Tanks
Pumping Station
Pond
Drain
Path (um)
Lower Trees Nursery (Childrens Nursery)
APPROXIMATE LOCATION OF EXISTING UKPN 95 scs 11kV UNDERGROUND MAIN
UKPN/ENC 800KVA INTERFACE SUBSTATION
2x 300mm² Al TRIPLEX XLPE 1x 120mm² BARE Cu
5x 125mm DUCT
3c-185mm² W/F
3c-95mm² W/F
3c-300mm² W/F
2x 125mm DUCT
3x 125mm DUCT
0m
5m
10m
20m
30m
40m
50m

FEEDER PILLAR #1
100A 1-PH [SP&N]
LOAD: 1kVA
FUSE: 100A
SUITABLY WEATHER PROOF AND LOCKABLE

FEEDER PILLAR #2
100A 1-PH [SP&N]
LOAD: 1kVA
FUSE: 100A
SUITABLY WEATHER PROOF AND LOCKABLE

FEEDER PILLAR #3
100A 1-PH [SP&N]
LOAD: 1kVA
FUSE: 100A
SUITABLY WEATHER PROOF AND LOCKABLE

FEEDER PILLAR #4
100A 1-PH [SP&N]
LOAD: 1kVA
FUSE: 100A
SUITABLY WEATHER PROOF AND LOCKABLE

FEEDER PILLAR #5
100A 1-PH [SP&N]
LOAD: 1kVA
FUSE: 100A
SUITABLY WEATHER PROOF AND LOCKABLE

PLOTS TBC
10-WAY MSDB
8 - APARTMENTS SP&N
1 - LANDLORD SP&N (5kVA)
LOAD: 17kVA
FUSE: 160A
3c-95mm² W/F
SEE DETAIL

TEMPORARY BUILDERS SUPPLY
TO ENC SPEC
LOAD 69kVA
3c-35mm² CNE
100 AMP TP&N CUT-OUT
100AMP FUSE
WHOLE CURRENT METERING
NO EARTH PROVIDED
M&E INSTALLATION CONTRACTOR TO INSTALL EARTH ROD AND RCD PROTECTION

WARNING
TBS TO BE DISCONNECTED BEFORE FULL SITE LOAD IS EXCEEDED

PLOTS 207-214
10-WAY MSDB
8 - APARTMENTS SP&N
1 - LANDLORD SP&N (5kVA)
LOAD: 20kVA
FUSE: 160A
3c-95mm² W/F
SEE DETAIL

PLOTS 140-147
10-WAY MSDB
8 - APARTMENTS SP&N
1 - LANDLORD SP&N (5kVA)
LOAD: 17kVA
FUSE: 160A
3c-95mm² W/F
SEE DETAIL

NOTE:
PHASE 3 METER LOCATIONS ARE INDICATIVE ONLY
POSITIONS TO BE CONFIRMED

PUMPING STATION
100A 3-PH TP&N CUT-OUT
WHOLE CURRENT METERING
LOAD: 5kVA
FUSE:100A
3c-35mm² CNE

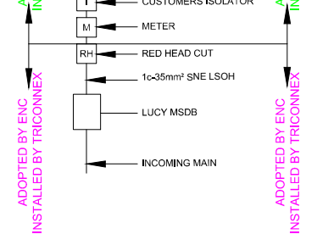
EXISTING UKPN SUBSTATION
"WEST END NURSERY 521724"
TO BE DISCONNECTED/REMOVED
UNDER SEPARATE SCHEME
UKPN REF: 8200009019

HV POC
UKPN REF: 8200009656
2x HV STRAIGHT JOINTS
300mm² Al TRIPLEX XLPE ONT0
EXISTING UKPN 95 scs 11kV UNDERGROUND MAIN
UKPN TO MAKE FINAL CONNECTION

(THIS CONNECTION IS DEPENDENT ON WEST END NURSERY 521724 BEING DISCONNECTED/REMOVED FROM THE NETWORK SEPARATE UKPN REF: 8200009019)

WARNING
TREAT ALL CABLES AS LIVE

DANGER
HIGH VOLTAGE CABLES PRESENT EXPOSE ALL CABLES BEFORE JOINTING


ADOPTED BY OTHERS
INSTALLED BY OTHERS
CONSUMER UNIT
TAILS FROM ISOLATOR TO CONSUMER UNIT
I
CUSTOMERS ISOLATOR
M
METER
RH
RED HEAD CUT
1c-35mm² SNE LSOH
LUCY MSDB
INCOMING MAIN
ADOPTED BY ENC
INSTALLED BY TRICONNEX

DRAWING KEY

SOLID LINE - EXISTING CABLING, COLOUR DEFINES VOLTAGE RATING	VARIES	━━━
DASHED LINE - PROPOSED CABLING. COLOUR DEFINES VOLTAGE RATING.	VARIES	- - - -
PROPOSED 11kV MAIN CABLING.	RED	━ · ━ ·
PROPOSED 6.6kV MAINS CABLING.		
PROPOSED LV MAINS CABLING.	BLUE	- - - -
PROPOSED LV SERVICE CABLING.	PURPLE	━ · ━ ·
PROPOSED CABLE DUCT.		=====
PROPOSED EARTHING CABLE.	GREEN	━ · ━ ·
PROPOSED EARTHING ROD (S) .		⏚
B.J. (BREECH JOINT) , S.J. (STRAIGHT JOINT) , B.E. (BOTTLE END) , SERVICE JOINT COLOUR DEFINES VOLTAGE RATING		● ● ●
PHASE ALLOCATION.		L1 L2 L3
METER POSITIONS.		M
FEEDER PILLAR		FP1
SITE/PHASE BOUNDARY		━━━

SERVICE ROUTES
ALL SERVICE ROUTES ARE INDICATIVE ONLY AND MUST BE CONFIRMED ON SITE BY THE INSTALLATION CONTRACTORS REPRESENTATIVE. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO ENSURE THAT ALL SERVICE ROUTES ARE WITHIN THE DEMISE OF THE PROPERTY BEING SUPPLIED AND THE EXACT LOCATION OF DUCTS ARE CLEARLY IDENTIFIED.

****Planning Drawing Only****
Obtain up-to-date utility records from asset owner before commencing work.

The details supplied on this drawing are intended to be used for information only and are not representative of any binding or contractual agreement between R & D Network Design and any other parties involved. The positions of existing mains is given for guidance only and, as such, no liability can be accepted by R & D Network Design Ltd for any damage caused to, nor any injury sustained, as a result of interference with such apparatus.
Before any onsite works commence an up to date copy of the relevant utilities records must be obtained.

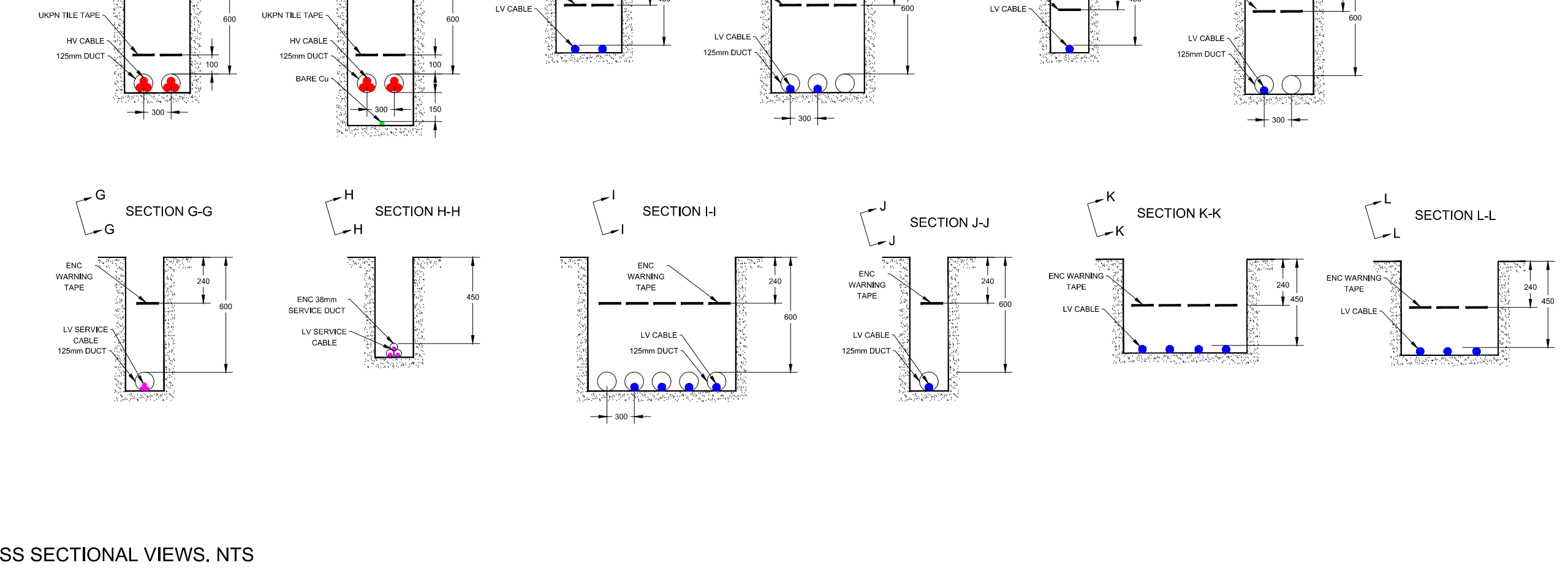
Design supplied for and on behalf of:

TRICONNEX

4 Tandown Way, Braintree, Essex, CM7 2QL, 01376 332680

R&D networkdesign

R & D Network Design Ltd
Blue Pit Mill
Queensway
Rochdale
OL11 2YW


SECTION A-A
SECTION B-B
SECTION C-C
SECTION D-D
SECTION E-E
SECTION F-F
SECTION G-G
SECTION H-H
SECTION I-I
SECTION J-J
SECTION K-K
SECTION L-L
UKPN TILE TAPE
HV CABLE
125mm DUCT
BARE Cu
ENC WARNING TAPE
LV CABLE
LV SERVICE CABLE
ENC 38mm SERVICE DUCT
600
450
240
300
100
150

CROSS SECTIONAL VIEWS, NTS

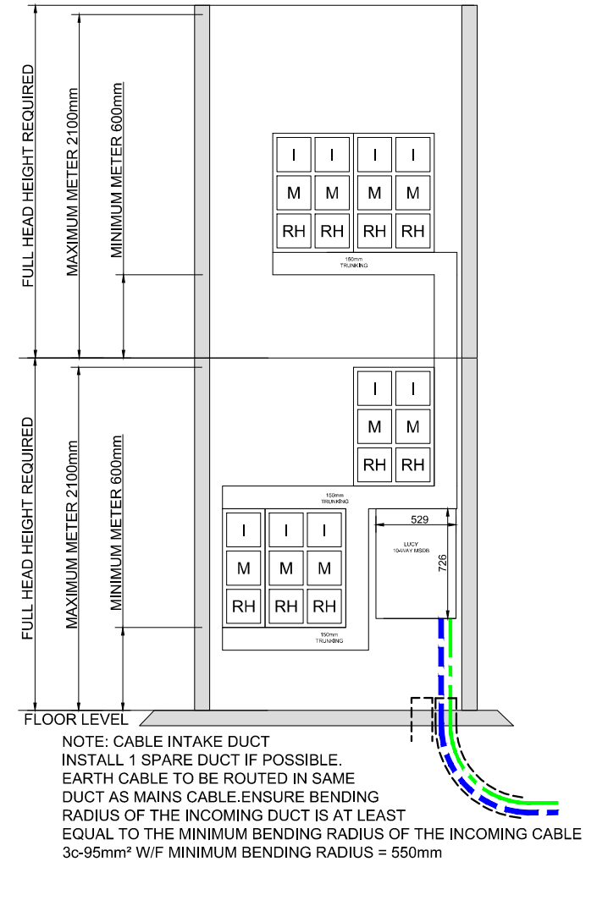
WARNING
ALL EXCAVATION SHOULD BE DONE BY TAKING THE APPROPRIATE SAFETY PRECAUTIONS IN THE "HEALTH & SAFETY EXECUTIVE GUIDE Note47" (HSEg47) "AVOIDING DANGER FROM UNDERGROUND SERVICES" TAKING COGNIZANCE OF THE FACT THAT OTHER PLANT MAY BE IN THE VICINITY WHICH IS NOT SHOWN ON THE PLANS.

MAINS CABLE DUCTING:

- SHALL BE TO ENATS 12-24, EMBOSSED "ELECTRICAL CABLE DUCT" ON OPPOSING SIDES.
- 1 x 'SPARE' CABLE DUCT SHOULD BE INSTALLED AT ROAD CROSSINGS.
- SIZES GIVEN ON DRAWING REFER TO INTERNAL DIAMETER

BACKFILL:

THE BACKFILL AROUND THE CABLES SHALL BE FREE OF SHARP EDGED STONES AND RUBBLE, DUCTS TO BE BEDDED IN 150mm SOFT SAND & TYPE 1 STONE UP TO BASE COURSE IN ACCORDANCE WITH UKPN/ENC G81 AND NRSWA REQUIREMENTS.


1600 MINIMUM WALL SPACE
FULL HEAD HEIGHT REQUIRED
MAXIMUM METER 2100mm
MINIMUM METER 600mm
I
M
RH
150mm TRUNKING
LUCY 10-WAY MSDB
529
726
FLOOR LEVEL

NOTE: CABLE INTAKE DUCT
INSTALL 1 SPARE DUCT IF POSSIBLE.
EARTH CABLE TO BE ROUTED IN SAME DUCT AS MAINS CABLE.ENSURE BENDING RADIUS OF THE INCOMING DUCT IS AT LEAST EQUAL TO THE MINIMUM BENDING RADIUS OF THE INCOMING CABLE
3c-95mm² W/F MINIMUM BENDING RADIUS = 550mm

ITEM	DRAWING KEY
I	CUSTOMER ISOLATOR
M	METER
RH	RED HEAD CUT OUT
- - - -	PROPOSED LV MAINS CABLING.
⊓	METERS SWITCH/FUSES SPACE
- - - -	150mm TRUNKING

PLOT			PHASE ALLOCATION
140	207	281	L1
141	208	282	L2
142	209	283	L3
143	210	284	L3
144	211	285	L2
145	212	286	L1
146	213	287	L1
148	214	288	L2
LL	LL	LL	L3

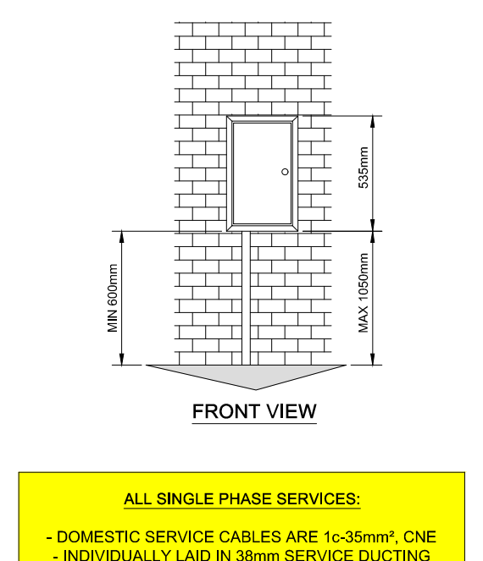
NOTE:
DEVELOPER TO LINE WALL WITH 25mm WBP EXTERIOR GRADE PLYWOOD FIXED TO BATTENS AND TREATED WITH FLAME RETARDING INTUMESCENT PAINT.
CUSTOMERS SWITCHFUSES (S/F) ARE NOT DRAWN TO SCALE AND ARE MERELY SHOWN TO ENSURE SUFFICIENT SPACE IS RESERVED TO ACCOMMODATE THE UNITS. PLEASE CONSULT YOUR ELECTRICAL CONTRACTOR. TRICONNEX'S INSTALLATION SCOPE STOPS AT THE INDIVIDUAL RED-HEAD CUT-OUTS

EARTHING SHALL BE IN ACCORDANCE WITH ENC SPECIFICATIONS

1 x LUCY 10-WAY MSDB (1J)
8- APARTMENTS (SP&N)
1- LANDLORDS (SP&N)

METER ROOM ARRANGEMENT 1:50

METER DETAILS (EXTERNAL)

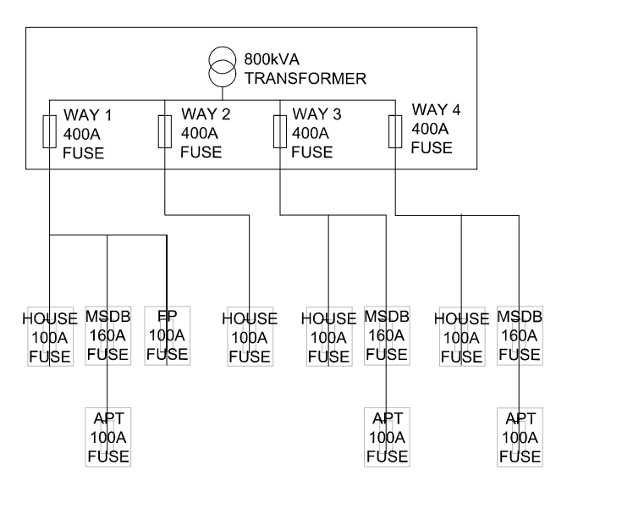

535mm
MIN 600mm
MAX 1050mm

FRONT VIEW

ALL SINGLE PHASE SERVICES:

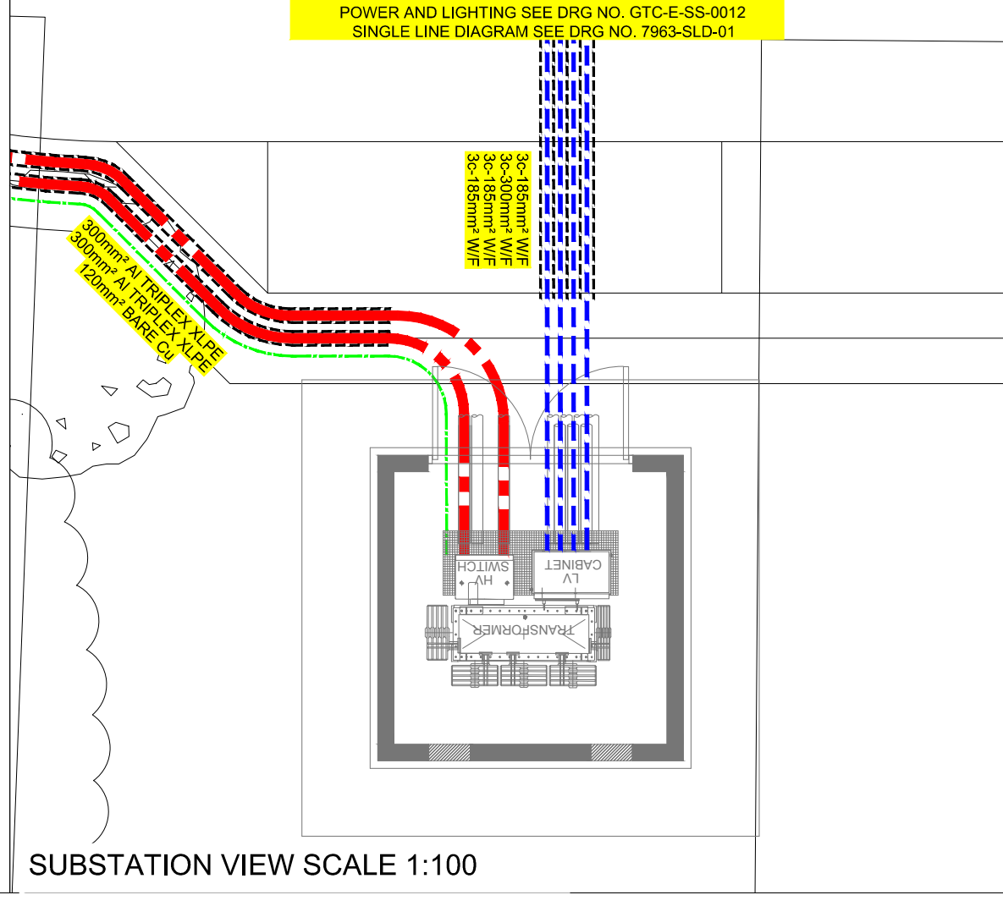
- DOMESTIC SERVICE CABLES ARE 1c-35mm², CNE
- INDIVIDUALLY LAID IN 38mm SERVICE DUCTING
- ALL SERVICE CABLES LAID IN SHARED 125mm DUCTING AT ROAD CROSSINGS ONLY
- CONTRACTOR TO INSTALL CABLE MARKER TAPE.

METER DETAILS. NTS


800kVA TRANSFORMER
WAY 1 400A FUSE
WAY 2 400A FUSE
WAY 3 400A FUSE
WAY 4 400A FUSE
HOUSE 100A FUSE
MSDB 160A FUSE
FP 100A FUSE
HOUSE 100A FUSE
HOUSE 100A FUSE
MSDB 160A FUSE
HOUSE 100A FUSE
MSDB 160A FUSE
APT 100A FUSE
APT 100A FUSE
APT 100A FUSE

ENC FUSING SCHEMATIC & DETAILS. NTS

UKPN/ENC BRICK BUILT INTERFACE SUBSTATION
24/7 UNRESTRICTED DUAL DNO/IDNO ACCESS
APPROXIMATE NAT GRID: TQ076034
- VRN2a-TFL 11kV RINGMAIN UNIT, Tx MOUNTED
- 11kV/433V, 800kVA, DISTRIBUTION TRANSFORMER
- 4-WAY, 1600A, LV FUSE CABINET, Tx MOUNTED
CONSTRUCTION SEE DRG NO. GTC-E-SS-0012
EARTHING DETAIL SEE DRG NO. GTC-E-0001
FOUNDATION DETAILS SEE DRG NO. GTC-E-0003
POWER AND LIGHTING SEE DRG NO. GTC-E-SS-0012
SINGLE LINE DIAGRAM SEE DRG NO. 7963-SLD-01


3c-185mm² W/F
3c-300mm² W/F
3c-185mm² W/F
3c-185mm² W/F
300mm² Al TRIPLEX XLPE
300mm² Al TRIPLEX XLPE
120mm² BARE Cu
HV SWITCH
LV CABINET
TRANSFORMER

SUBSTATION VIEW SCALE 1:100

Client	TRICONNEX	Client Ref	X322
Site Address	WEST END NURSERY, ANGMERING, LITTLEHAMPTON		
Title	**Site Plan with Cable Routes**		
Drawn By	PA	Date	20-10-16
Checked By	DS	Date	20/10/2016
Approved By	TS	Date	26/10/2016
Scale	1:500 @ A0		
Revision	J		
Drawing No	7963/SP/01		

ARUN DISTRICT COUNCIL A/202/17/NMA