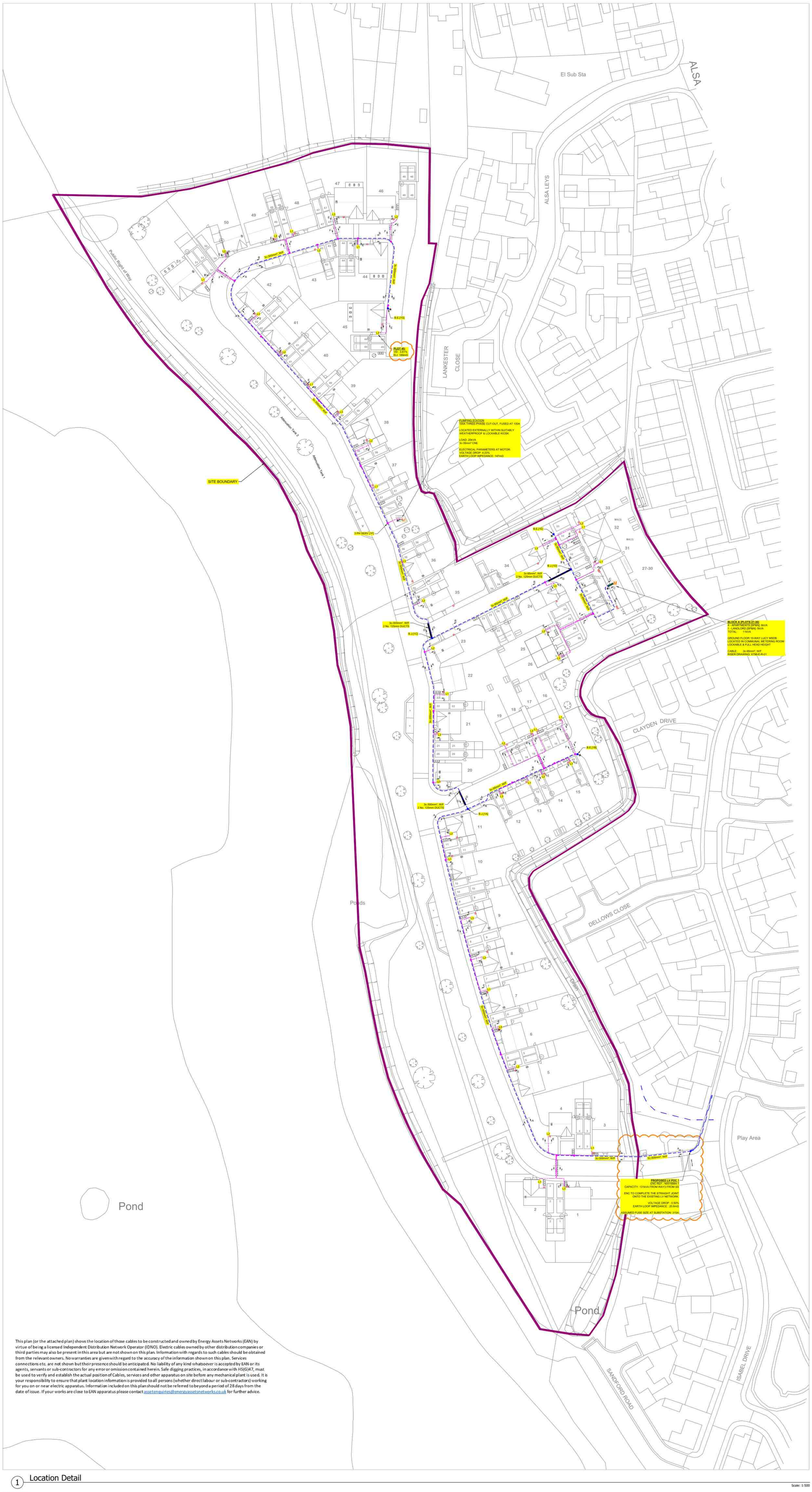
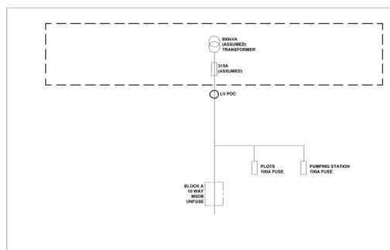



This plan (or the attached plan) shows the location of those cables to be constructed and owned by Energy Assets Networks (EAN) by virtue of being a licensed Independent Distribution Network Operator (IDNO). Electric cables owned by other distribution companies or third parties may also be present in this area but are not shown on this plan. Information with regards to such cables should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Services connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by EAN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of Cables, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near electric apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue. If your works are close to EAN apparatus please contact assetenquiries@energyassetsnetworks.co.uk for further advice.

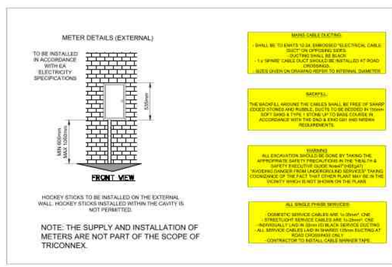
## 1 Location Detail

Scale: 1:500



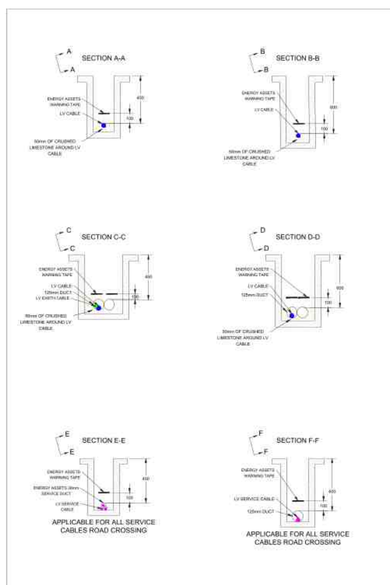

## 2 EA Fusing Schematic & Detail

NTS




## 3 EA Meter Notes & Detail

NTS




## 4 EA Meter Notes & Detail

NTS

1. ALL CROSSINGS AND CABLE LAYING DEPTH SHALL BE IN ACCORDANCE TO NJUG 7.
2. ALL LV CABLES TO BE SUPPLIED AND INSTALLED TO RELEVANT IDNO STANDARDS UNLESS OTHERWISE STATED.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING DESIGN DOCUMENTS:

| DOCUMENT NUMBER | DOCUMENT TITLE |
|---|---|
| X796-E-DRA-01 | DESIGNERS RISK ASSESSMENT |
| X796-E-FRA-01 | FLOOD RISK ASSESSMENT |
| X796-E-SLD-01 | SINGLE LINE DIAGRAM (SHEET 1) |
| X796-E-SLD-02 | SINGLE LINE DIAGRAM (SHEET 2) |
| X796-E-ER-01 | ENGINEERING REPORT |
| X796-E-WD-01 | WINDEBUT SCHEMATICS |
| X796-E-R-01 | RISER DRAWING |

## LV CABLE LENGTHS

| WAY 1 | |
|---|---|
| NODE | LENGTH |
| POC 1 - B.J.[1A] | 207 |
| B.J.[1A] - B.E.[1B] | 49 |
| B.J.[1A] - B.J.[1C] | 79 |
| B.J.[1C] - B.J.[1D] | 61 |
| B.J.[1D] - B.E.[1E] | 16 |
| B.J.[1D] - Block A | 42 |
| B.J.[1C] - 3 PH SERV [1F] | 50 |
| 3 PH SERV [1F] - PUMP STN | 7 |
| PUMP STN - MOTOR | 5 |
| 3 PH SERV [1F] - B.E.[1G] | 208 |
| B.E.[1G] - Plot 45 | 14 |

| TOTAL CABLE LENGTHS | |
|---|---|
| CABLE | LENGTH |
| 35mm2,W/F | 26m |
| 95mm2,W/F | 168m |
| 185mm2,W/F | 0m |
| 300mm2,W/F | 544m |

## 7 Cable Lengths

NTS

| CABLE SIZE ($mm^2$) & TYPE | MAXIMUM PULLING TENSION NEWTON (kgf) | MINIMUM DUCT INTERNAL DIAMETER (mm) | MINIMUM BENDING RADIUS (mm) |
|---|---|---|---|
| $95mm^2$ - 3ph ALUMINUM WAVEFORM | 3000 (306) | 125 | 550 |
| $185mm^2$ - 3ph ALUMINUM WAVEFORM | 7000 (714) | 125 | 700 |
| $300mm^2$ - 3ph ALUMINUM WAVEFORM | 7000 (714) | 125 | 850 |

## 8 Cable Calculations

Scale: NTS

UNAPPROVED ENC TRICONNEX

UNAPPROVED EAN TRICONNEX

### CONSTRUCTION DESIGN MANAGEMENT

**UNDER THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015, TRICONNEX UNDERTAKES THE ROLE OF DESIGNER ONLY. THE PRINCIPLE DESIGNER IS APPOINTED BY THE DEVELOPER, WHO SHALL ENSURE THAT THE DESIGN AND CONSTRUCTION OF ANY UTILITY BUILDING ENTRIES, RISERS, INTERNAL METER ROOMS OR UTILITY EQUIPMENT LOCATIONS (SUCH AS METER POSITIONS) COMPLIES WITH THE BUILDING CONTROL AND FIRE REGULATIONS.**

THE DEVELOPER SHALL ENSURE THAT BUILDING ANY FORM OF BUILDING ENTRY (E.G. INTERNAL METERING) AND/OR UTILITIES INSTALLED WITHIN THE BUILDING/METERING ROOM SHALL MEET THE FOLLOWING:

1. IT SHALL COMPLY WITH THE BUILDING CONTROL AND FIRE REGULATIONS, INCLUDING BUT NOT LIMITED TO:
   - BS 9999:2017 FIRE SAFETY IN THE DESIGN, MANAGEMENT AND USE OF BUILDINGS - CODE OF PRACTICE
   - BS 8313:1997 CODE OF PRACTICE FOR ACCOMMODATION OF BUILDING SERVICES DUCTS
   - BUILDING REGULATIONS 2010
2. IT SHALL NOT BE A CONFINED SPACE AS IDENTIFIED IN THE CONFINED SPACE REGULATIONS 1997.
3. 24 HOUR UNRESTRICTED ACCESS FOR THE ADOPTING PARTY AND METER OPERATORS SHALL BE AVAILABLE.
4. ADEQUATE PHYSICAL ACCESS AND MEANS OF ESCAPE SHALL BE AVAILABLE.
5. IT SHALL BE LOCKABLE AND SECURE AND SHALL NOT BE USED AS A STORE CUPBOARD.
6. ADEQUATE LIGHTING SHALL BE PROVIDED.
7. IT SHALL BE WATERPROOF AND DRY IN A NON-CORROSIVE ATMOSPHERE AND NATURALLY VENTILATED.
8. THE AMBIENT TEMPERATURE SHALL NOT EXCEED 30°C.

north

**DANGER**
LOW & HIGH VOLTAGE CABLES MAY BE PRESENT
ALL EXCAVATIONS TO BE CARRIED OUT IN ACCORDANCE WITH HSG47
**EXPOSE ALL CABLES PRIOR TO JOINTING WORKS**
**TREAT ALL CABLES AS LIVE**

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 THE DNO/IDNO GS1 AND NRSWA REQUIREMENTS.

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.

### Drawing Key

EHV OHL Proposed
EHV OHL Existing
EHV OHL Existing to be Removed
EHV Existing
EHV Existing to be Removed
EHV Existing to be Abandoned
EHV Proposed
HV OHL Proposed
HV OHL Existing
HV OHL Existing to be Removed
HV Existing
HV Existing to be Removed
HV Existing to be Abandoned
HV Proposed
LV OHL Proposed
LV OHL Existing
LV OHL Existing to be Removed
LV Existing
LV Existing to be Removed
LV Existing to be Abandoned
LV Way 7 Proposed
LV Way 6 Proposed
LV Way 5 Proposed
LV Way 4 Proposed
LV Way 3 Proposed
LV Way 2 Proposed
LV Way 1 Proposed
LV Proposed
Service OHL Proposed
Service OHL Existing
Service OHL Existing to be Removed
Service Existing
Service Existing to be Removed
Service Existing to be Abandoned
Service Proposed
Service Proposed SNE
Proposed Earthing Cable
Electric Main Duct
Electric Service Duct
Link Box
Service Joint
Breach Joint
Straight Joint
Pot End/Earth Rod
Sheath Repair
Overhead Pole with Stays
MSDB
Cut Out
Car Charging Point
External electric Meter Location/Phase
Internal electric Meter Location/Phase
External electric Meter Location/Phase SNE
Internal electric Meter Location/Phase SNE
Proposed Lighting Column
Proposed Feeder Pillar
Site Boundary
Revision Cloud

The details supplied on this drawing are intended to be used for information purposes only and are only valid for the duration of the contract between TriConnex and any other parties involved. The positions of existing assets is given for guidance only and, as such, no liability can be accepted by TriConnex 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.

| DATE | DESCRIPTION | REV | DES | DC | APP |
|---|---|---|---|---|---|
| 18/08/22 | POC location Amended | C | NM | AF | NM |
| 09/08/22 | Amended as per Internal Review | B | NM | BL | NM |
| 26/07/22 | First issue | A | PA | BL | NM |

Site Earthing Status: N/A

TRICONNEX
Nexus Park, Avenue East Skyline 120, Great Notley, Braintree Essex, CM77 7AA.
Tel: 01376 332 680
Email: info@TriConnex.co.uk
www.TriConnex.co.uk

DRAWING TITLE: ELECTRIC DESIGN

SITE ADDRESS: Isabel Drive (Parcel A), Elsenham CM22 6LL

STATUS: UNAPPROVED

SCALE: AS SHOWN on A0

| ENC Reference | IDNO Reference |
|---|---|
| N0016884-1 | EAN016125 |

| DRAWING NUMBER | REVISION | DPS VD No | SHEET No |
|---|---|---|---|
| X796-E-SP-01 | C | -- | 1 of 1 |

CLIENT: Dandara (Eastern)

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A0 — TCX STD E, October 2019 v1

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.