

- POP** PRIVATELY OPERATED PAYPHONES
- APS** ASSISTANCE TELEPHONES (EG ELEVATOR AND ROADSIDE PHONES)
- MET** APPLY TO OTHER TYPE OF METERING POINT ( any service)
- ATM** ATM
- PRK** BANDSTAND / ROTUNDA / SPORTS FIELD STANDS / OTHER PARK BUILDING
- PSD** POINT OF SALE DEVICE (vending machine, ticket machine)
- TRF** Traffic Lights / Traffic Light Controller / Variable Speed Sign / Traffic Signal
- PBT** Public Transport (bus stop, tram stop, railway station, taxi rank, ferry wharf)
- SWT** Links / Link Pole / MV / HV Links / ABC Links / Dynamic Switch / Airbrake Switch / Isolator
- WAT** Water Infrastructure (storage, pumps, valves water supply, waste water, sewerage stations)
- GAS** Natural Gas Infrastructure
- CAM** Camera (security / traffic)
- CTL** Bridge control, swing bridge, traffic control gates, railway boom gates)
- MOB** Mobile Phone Tower / radio antenna
- LIT** Street Lighting Pole / street light controller
- CAR** Unmanned (council) car park
- PWR** Transformer / Kiosk / Pad Mount Sub-station / Pole Mount Transformer
- NAP-ID** Network Access Point (NAP)
- MPT-ID** Multiport (MPT)  
n is the number of ports (eg 4,6,8,12)
- Penetration**

**CABLE TRAY:**

- TJL-ID** Splice Joint on a Transit Cable (TJL)
- DJL-ID** Splice Joint on a Distribution Cable (DJL)
- LJL-ID** Splice Joint on a Local Cable (LJL)
- MJL-ID** Splice Joint on a Tether Cable (MJL)
- AJL-ID** Zone Terminal / Splice Joint (AJL)
- FDH-ID** Fibre Distribution Hub-FDH Cabinet with Cabinet ID shown
- PIT-ID 2** Service Drop Access Pit (650mmX280mmX565mm)
- PIT-ID 5** Network Boundary/Local Network Pit (Single Lid) (700mmX450mmX650mm)
- PIT-ID 6** Distribution/Local Network Connection Pit (Dual Lid) (1360mmX555mmX650mm)
- PIT-ID 8** Distribution/Local Network Connection Pit (1360mmX555mmX860mm)
- PIT-ID 9** Fibre Distribution Hub (FDH) Pit (2000mmX555mmX900mm)
- NTD** Shared Trench
- NTD** nbn NTD
- OBBU** NBN Optional Battery Backup Unit
- PDH** nbn Premises Distribution Hub
- CTL** nbn Cable Transition Location
- FDT** nbn Fibre Distribution Terminal
- FIP** nbn NTD Fire Indicator Panel
- Riser** Riser
- LIFT** nbn NTD LIFT
- AP** Access Panel
- SEC** nbn NTD Security
- CET** nbn Communications Earth Terminal
- DES QTY** Example of descriptor box that will show the type of work and the quantity involved
- nbn manhole**
- Existing Telstra manhole**
- FAN** Fan Access Node site (FAN)
- 138A<sup>RX</sup>CX** Multi Dwelling Unit (MDU)

- DEPTH-- ALIGN--** DEPTH OVER ALIGNMENT SYMBOL TO BE USED WITH EVERY MARKER POST
- X** Symbol to be used when replacing/removing existing network
- PCD** Premise Connection Device (PCD)
- POLE-ID** Pole (showing pole identity)
- 5** Existing Telstra Pit ( 2,3,4,5,6,7,8,9 ) Telstra exchange
- M** Example of Telstra Major Conduit Layout with Proposed duct marked to be used by NBN
- M < - >** NBN MARKER POST MARKER POST TO BE NUMBERED

**AS-BUILT**

**CONDUIT CONFIGURATION**

CONDUITS AND DUCTS ARE IN LAYER :  
< L460 NBN Support - Underground >  
AND TERMINOLOGY CATEGORIZED INTO TWO GROUPS IN THE DRAWING AS PER BELOW:

1- DUCT USED WITH LOCAL NETWORK  
2-CONDUIT USED WITH LEAD-IN DROPS  
ATTRIBUTES ATTACHED ARE AS SHOWN

**CABLE CONFIGURATION**

CABLE TYPE:  
CABLES DIVIDE INTO FOLLOWING CATEGORIES AND ARE COLOUR CODED:

- TRANSIT CABLES COLOUR NO: 1
- DISTRIBUTION CABLES COLOUR NO: 190
- LOCAL CABLES COLOUR NO: 4
- TETHER CABLES COLOUR NO: 3
- LEAD IN (DROP) CABLES COLOUR NO: 5

CABLE LOCATION:  
CABLE LOCATIONS DETERMINES WHERE THE CABLE IS USED AS PER BELOW:

IN-CONDUIT  
AERIAL  
BURIED

**AS - CONSTRUCTED**  
PENSAR UTILITIES ABN 51 159 247 631  
Phone: 07 3846 5922  
Name: Andrew Smith  
Sign: [Signature]  
Date: 06/04/21

CABLE SIZE:  
CABLE SIZE IS THE TOTAL NUMBER OF OPTIC FIBRES IN THE CABLE AND IS DETERMINED BY A NUMBER FOLLOWED BY F (FIBRE) OR R (RIBBON) IN THE MIDDLE OF THE LINE TYPE

LINE TYPES ARE CATEGORIZED INTO 3 TYPES:  
1- IN-CONDUIT: (XXXXF) 312F ...  
2- AERIAL: (XXXXF\_A) 144\_A ...  
3- BURIED: (XXXXF\_B) 12\_B ...

EXAMPLE:  
144 FIBRE AERIAL LOCAL CABLE  
1 FIBRE BURIED DROP CABLE  
432 FIBRE IN-CONDUIT TRANSIT CABLE

FSA Boundary  
FSAM Boundary  
FDA Boundary

**STAFF WORKING ON THIS ESTIMATE PLEASE**  
NOTE: The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.

**DANGER LASER BEAM**  
EYE PROTECTION MUST BE WORN

**SAFETY FIRST**  
SAFETY STARTS WITH YOU



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-				
C	21/12/2020	M.HATTON-WHIMP	AS CONSTRUCTED	NATHAN DAVIES
B	25/09/2020	M.HATTON-WHIMP	UPDATE TO SUIT CIVIL BASE	NATHAN DAVIES
A	26/02/2020	LACHLAN BRAUNLEIN	NBN APPROVED - ISSUED FOR CONSTRUCTION	NATHAN DAVIES
PR1	17/02/2020	RICHARD WEBB	PRELIMINARY ISSUE	NATHAN DAVIES
C1	14/10/2019	LACHLAN BRAUNLEIN	CONCEPT	NATHAN DAVIES

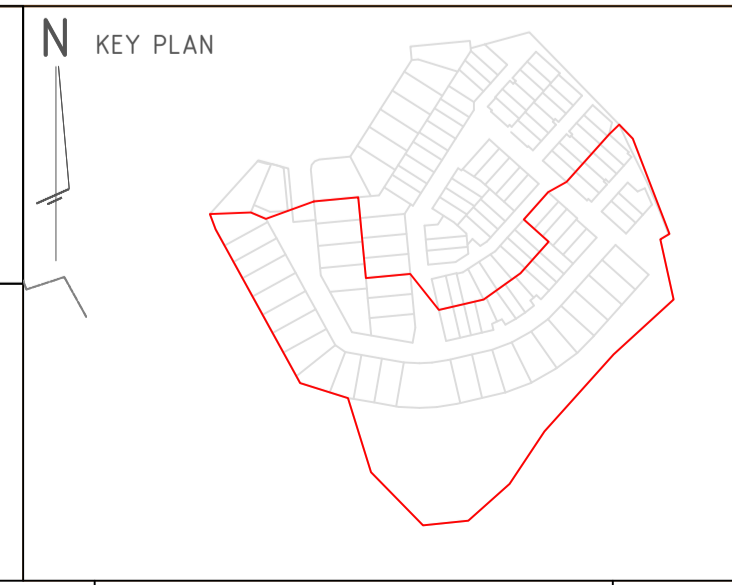
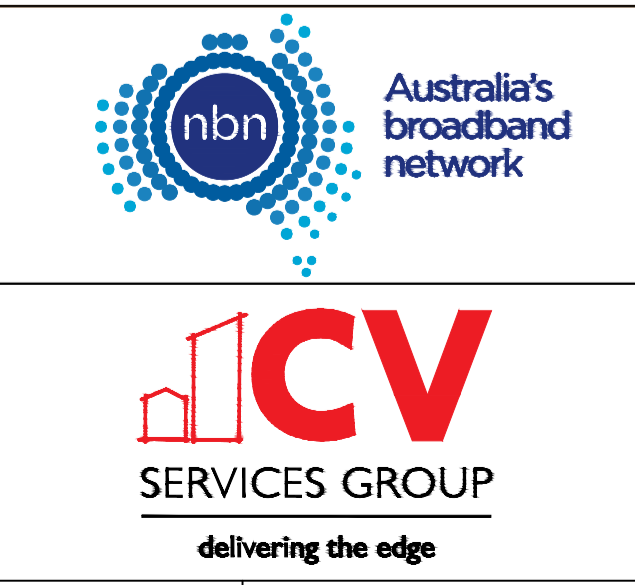
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NBNCO APPROVAL RECORD:

SIGNATURE	DATE
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<input type="checkbox"/> WD	
<input type="checkbox"/> AB	

QUALITY RECORD :

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DRAWING TITLE:  
STG-M000023290  
NBN PIT & PIPE DESIGN  
50 ASHMORE ST - 2-4A  
EVERTON PARK, 4053

ENABLE#:

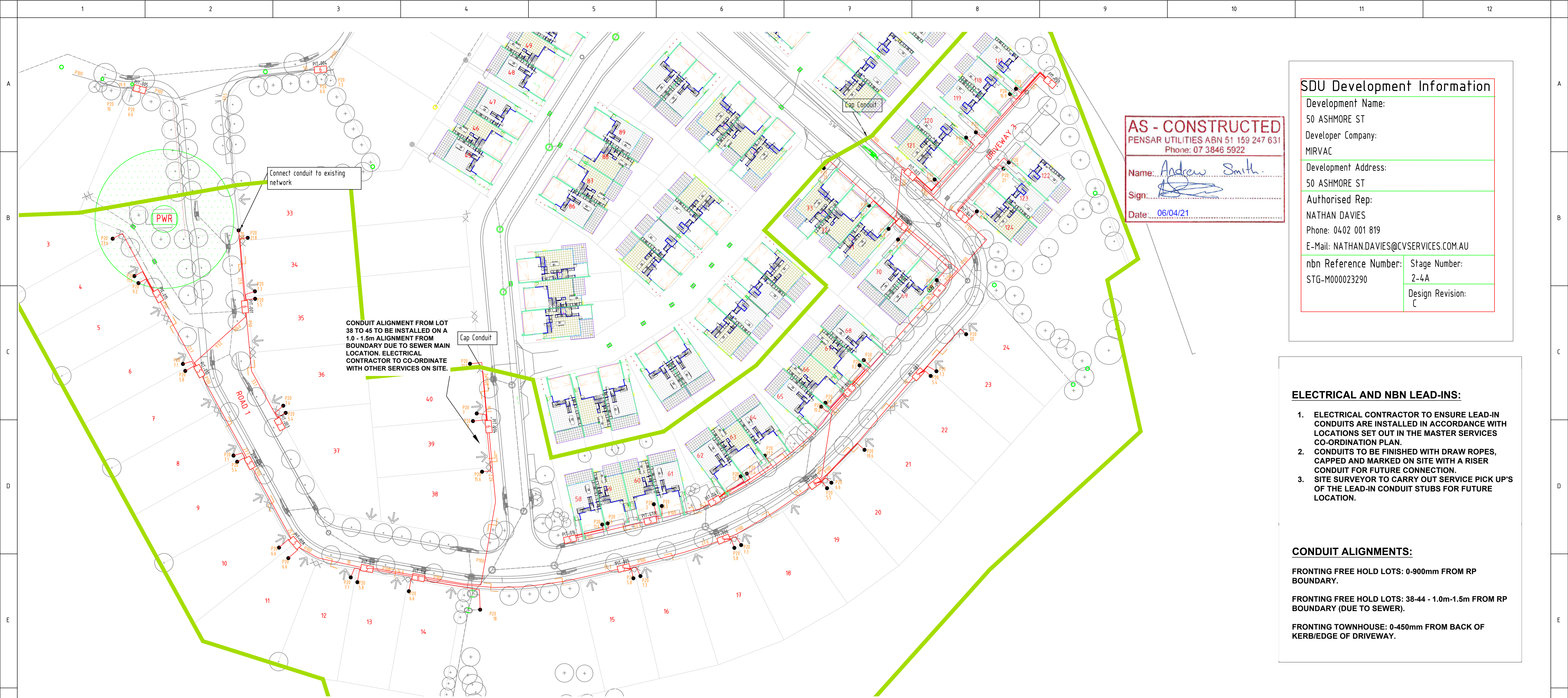
STATE: QLD REGION:

FSA: SAM: ADA:

PROJECT No: STG-M000023290

CADREF No: C10244-2-4A

SCALE N/A SHEET No. 1 OF 2 REV. C



**AS - CONSTRUCTED**  
 PENSAR UTILITIES ABN 51 159 247 631  
 Phone: 07 3846 5922

Name: Andrew Smith  
 Sign: [Signature]  
 Date: 06/04/21

SDU Development Information	
Development Name: 50 ASHMORE ST	
Developer Company: MIRVAC	
Development Address: 50 ASHMORE ST	
Authorised Rep: NATHAN DAVIES Phone: 0402 001 819 E-Mail: NATHAN.DAVIES@CVSERVICES.COM.AU	
nbn Reference Number: STG-M000023290	Stage Number: 2-4A Design Revision: C

**ELECTRICAL AND NBN LEAD-INS:**

1. ELECTRICAL CONTRACTOR TO ENSURE LEAD-IN CONDUITS ARE INSTALLED IN ACCORDANCE WITH LOCATIONS SET OUT IN THE MASTER SERVICES CO-ORDINATION PLAN.
2. CONDUITS TO BE FINISHED WITH DRAW ROPES, CAPPED AND MARKED ON SITE WITH A RISER CONDUIT FOR FUTURE CONNECTION.
3. SITE SURVEYOR TO CARRY OUT SERVICE PICK UP'S OF THE LEAD-IN CONDUIT STUBS FOR FUTURE LOCATION.

**CONDUIT ALIGNMENTS:**

- FRONTING FREE HOLD LOTS: 0-900mm FROM RP BOUNDARY.
- FRONTING FREE HOLD LOTS: 38-44 - 1.0m-1.5m FROM RP BOUNDARY (DUE TO SEWER).
- FRONTING TOWNHOUSE: 0-450mm FROM BACK OF KERB/EDGE OF DRIVEWAY.

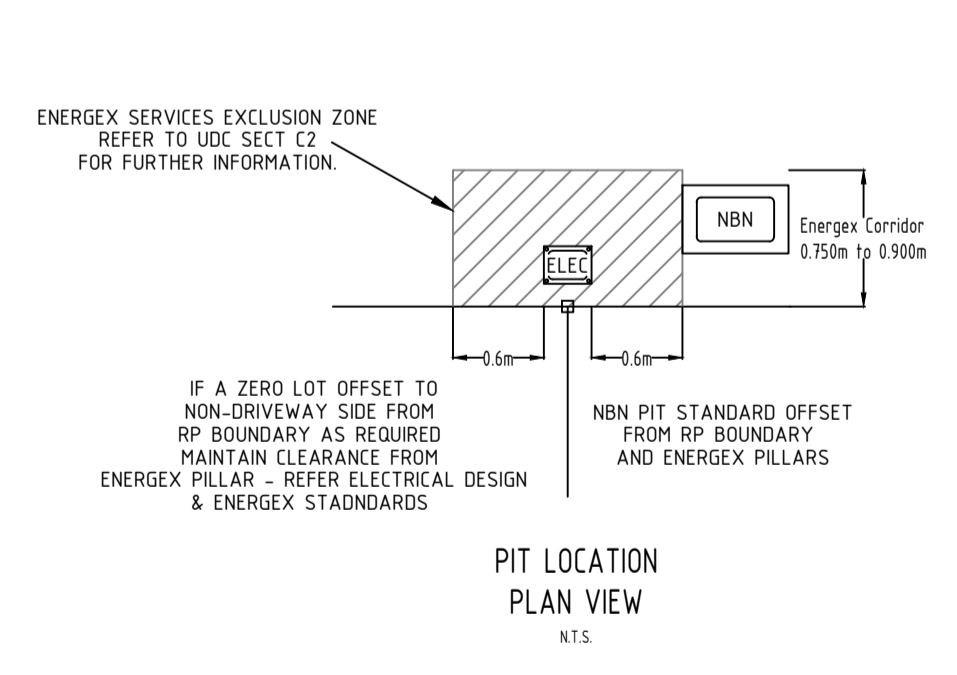
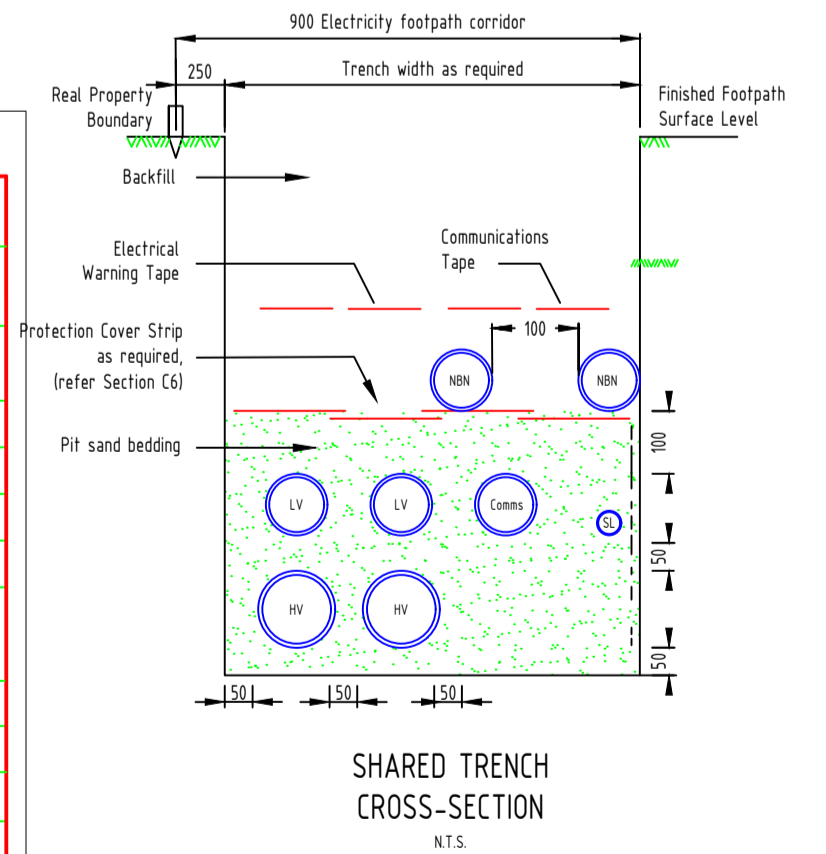
**CONSTRUCTION NOTES**

- NBN Pit & Pipe to be installed to NBN Co Requirements
- Contractor to ensure Energex clearance zones to be maintained PER ENERGEX UDC MANUALS
- All construction to be installed in shared trench unless otherwise shown
- Installation Contractor to confirm Driveway Locations with Civil Contractor prior to installation of pits on site.

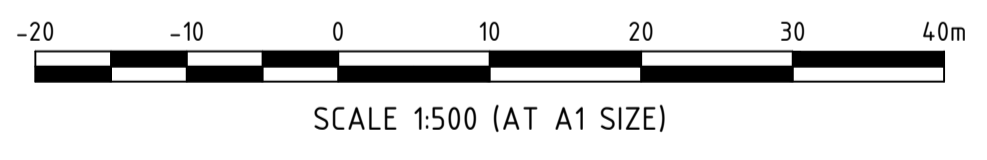
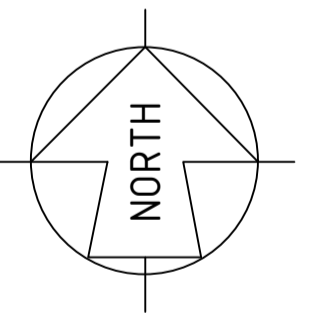
**AS-BUILT**

CONDUIT ALIGNMENT FROM LOT 38 TO 45 TO BE INSTALLED ON A 1.0 - 1.5m ALIGNMENT FROM BOUNDARY DUE TO SEWER MAIN LOCATION. ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH OTHER SERVICES ON SITE.

BILL OF MATERIAL				
NO OF LOTS: 54				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	1	P100	17	520
5	17	P50	5	160
6	2	P20	54	600
8	2			
9	0			
TOTAL NUMBER OF PITS:		22		
TOTAL NUMBER OF MANHOLES:		0		
TOTAL NUMBER OF CONDUITS:		81		
TOTAL LENGTH OF CONDUITS:		1280		



- SITE SERVICES CO-ORDINATION:**
1. ELECTRICAL CONTRACTOR IS TO CO-ORDINATE ALL SERVICE INSTALLATIONS WITH OTHER CONTRACTORS AND SERVICES ON SITE.
  2. ALL RELEVANT STANDARDS FOR THE INSTALLATION OF THE AS3000 ELECTRICAL INSTALLATION AND NBN PIT & PIPE MUST BE FOLLOWED.



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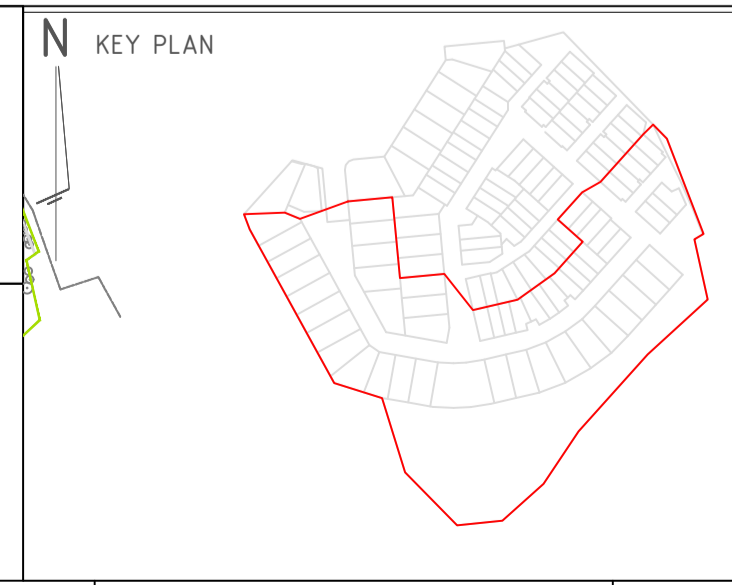
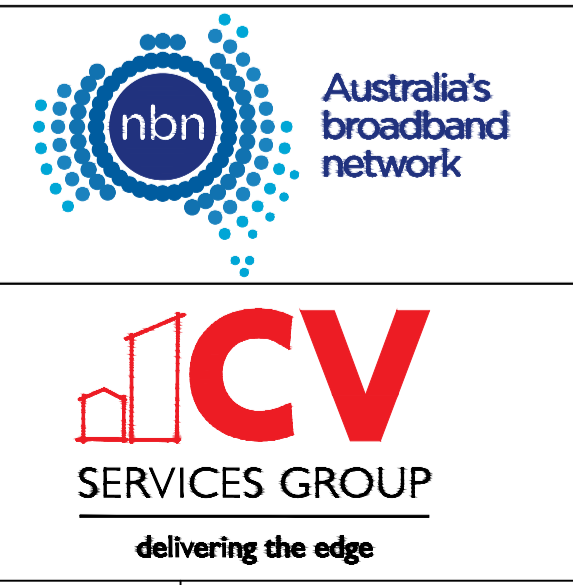
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SCALE 1:500 SHEET No. 2 OF 2 REV. C