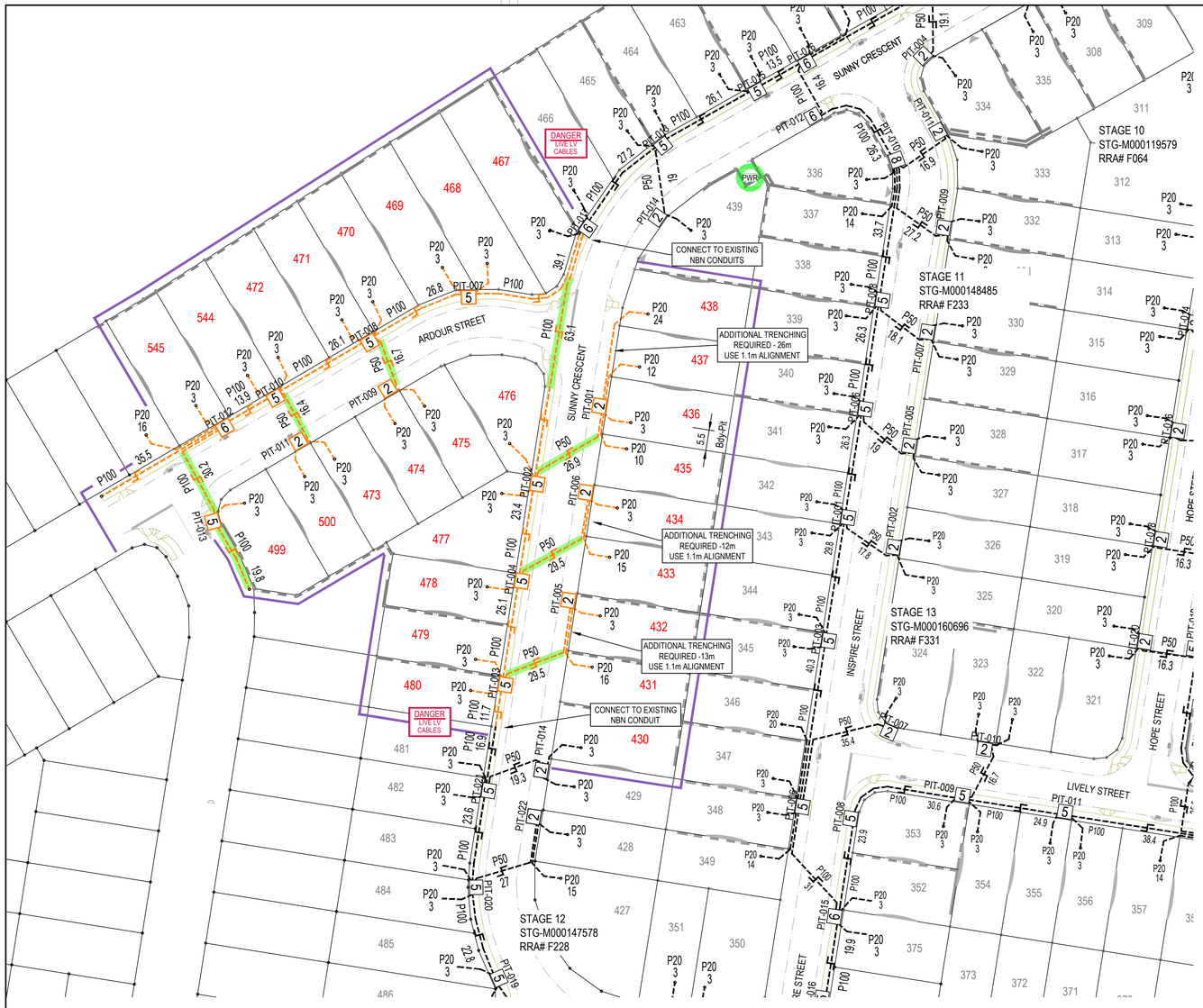


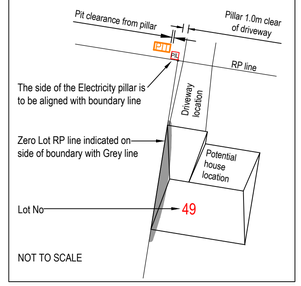
PITS ON ZERO LOT BOUNDARY

Proposed communications pits are to be offset as indicated below away from the zero lot line.

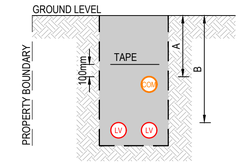
The pits shall be aligned on the same side as the electrical pillar, away from the driveway location.

Electrical pillars are located a minimum of 1.0m from the driveway edge with the communications pit position immediately outside the exclusion zone of the electrical pillar.

Comms pits shall not clash with potential driveway positions indicated.



SHARED TRENCH DETAIL-NBN

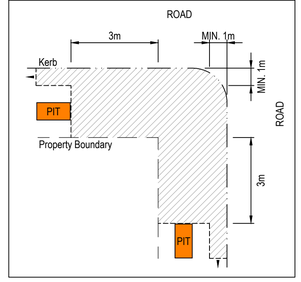


MINIMUM CONDUIT DEPTH *

LOCATION	A	B
Verge	450mm	750mm
Local Road	600mm	Energex 800mm; Ergon 900mm
DTMR Road	800mm	1200mm

* supersedes Energex/Ergon requirements

DETAIL B - NO PITS IN THE SHADED AREA



LEGEND: NBN CONDUITS & PITS

- Fibre Access Node (FAN) site
- Fibre Distribution Hub (FDH) site - 1m x 1m
- P100 — 40 — Proposed 100mm Main Conduit
- P50 — 75 — Proposed 50mm Lateral Conduit
- P20 — 7 — Proposed 23mm Service Drop
- Proposed length of bored conduit
- Conduits by Civil Contractor
- Proposed shared trench
- Service Drop Access Pit
- Local Network Pit Premises Connection (Houses an MPT)
- Boundary Pit Cross-Road & Other Premises Connection (No MPT)
- Local Network Connection Pit Premises Connection & Fibre Splice Closure
- Distribution / Local Network Connection Pit at entry/exit to estate; @ 250m ccs on distribution conduit
- Fibre Distribution Hub (FDH) Pit Within 5m of FDH Site
- Multi Dwelling Unit (MDU)
- Marker Post (Post to be numbered)
- Depth over alignment indicator (used with every Marker Post)
- Descriptor Box (Description of type of work & Quantity involved)
- Transformer Pad Mount / Pole Mount
- Existing Telstra conduit trench layout (Proposed conduit indicated for comms cable)
- Existing NBN 100mm conduit
- Existing Telstra P100 conduit
- Existing or proposed Energex pole (& pole ID)
- Existing Telstra Exchange
- Existing Telstra Pits (size 2,3,4,5,6,7,8 or 9)
- Existing Telstra Manholes (Access Chambers)
- Existing Traffic Signals Box
- Existing network item to be removed/replaced
- 'C' communications marker plate

"AS CONSTRUCTED" DOCUMENTS

The electrical contractor shall email the "as constructed" drawing, test results & closure documents to:

- as.constructed@robrus.com.au

'AS CONSTRUCTED' CERTIFICATION

I certify as follows:

The installation of NBN conduits and pits has been completed in accordance with this drawing & NBN specification *NBN-TE-CTO-194*, subject to any changes marked up in red.

Mandrel testing of all conduits has been preformed as detailed on the attached Mandrel Test Report.

The minimum depths of conduits are as specified, except as marked up in red.

signature of certifier:

name of authorised certifier:

date of certification:

name of company:

certifier's position:

CONSTRUCTION CONTACTS

ELECTRICAL ENGINEER
ROBIN RUSSELL & ASSOCIATES PTY LTD
ELECTRICAL DESIGNER
WILLIAM SCHARDT - 0419 778 552
COMMS CONDUIT DESIGNER
SHANE MILLS - 07 3353 4660
CONSTRUCTION COORDINATOR
SHANE HYDE - 0419 021 772

CIVIL ENGINEER
COLLIERS
MATTHEW COTTON Ph: 07 5588 0302

SURVEYOR
SAUNDERS HAVILL GROUP
CLINTON URQUHART Ph: 0412 974 472

PLAN VIEW
SCALE 1:750

-15m 0 15 30 45m

1 : 750 (A1 - NOT REDUCED)
Note: Pits and FDH plinths are not drawn to scale.

SITE INFORMATION

TOTAL NUMBER OF LOTS
27

PROPERTY DESCRIPTION
Proposed Lots 430 - 438, 467 - 480, 499-500 & 544-545
Cancelling Lot 2 on RP196150, Lot 1 on RP196152, Lot 2 on RP196154 & Lots 342-344 on S3173

ORIGINAL ISSUE

NBNCo Limited

- Telecommunications infrastructure will be provided by NBN™
- NBN™ will own the conduits and pits.
- This installation shall comply with NBN-TE-CTO-194 V12.0

NBN PITS
NBN PITS MUST BE INSTALLED IMMEDIATELY OUTSIDE THE EXCLUSION ZONE (ERGON 400mm & ENERGEX 600mm) OF THE ELECTRICITY PILLAR & EXACTLY 3m FROM CORNER TRUNCATIONS AS PER DETAIL B.

NBN CONDUIT SCHEDULE - CIVIL CONTRACTOR

CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A) WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	QUANTITY (metres)
P20	SDU service drop	PN12	27mm	24mm	-
P50	MDU service drop	PN12	60mm	54mm	-
P50	road crossing	PN12	60mm	54mm	88
P100	road crossing	PN9	114mm	104mm	46
P100	footpath conduits adj. retaining walls	PN9	114mm	104mm	18
Additional trenching					-

NBN CONDUIT SCHEDULE - ELECTRICAL CONTRACTOR

CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A) WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	QUANTITY (metres)
P20	SDU service drop	PN12	27mm	24mm	155
P50	MDU service drop	PN12	60mm	54mm	-
P50	footpath	PN12	60mm	54mm	36
P100	footpath	PN9	114mm	104mm	258
P100	distribution network	PN9	114mm	104mm	-
Additional trenching					51

SOURCE DOCUMENTS

CREATOR	DRAWING	DWG. NO.	REV. NO.	DATE
ROBIN RUSSELL & ASSOCIATES	ELECTRICAL	F337	A	08/05/2024
COLLIERS	CIVIL	21-0268_X_BASE_DESIGN	-	
COLLIERS	CIVIL	21-0269_X_BASE_DESIGN	-	
COLLIERS	CIVIL	23-0270_X_BASE_DESIGN	-	
COLLIERS	CIVIL	23-0127_X_BASE_DESIGN	-	
COLLIERS	CIVIL	X_23-0128_BASE_DESIGN	-	

NBN PIT SCHEDULE - ELECTRICAL CONTRACTOR

PIT CODE	ITEM	NOMINAL EXTERNAL DIMENSIONS	QUANTITY
2	service drop access pit	650 x 280 x 565mm	5
5	service/boundary pit (single lid)	700 x 450 x 650mm	7
6	local network connection pit (dual lid)	1360 x 555 x 650mm	1
8	distribution/local network connection pit (dual lid)	1360 x 555 x 860mm	-

NOTES - NBN

NBN conduits and pits shall be installed in compliance with NBN Co specification: NBN-TE-CTO-194 V 12.0 *New Developments: Deployment of the NBN Co Conduit and Pit Network - Guidelines for Developers*. This can be downloaded at: *https://www.nbnco.com.au/content/dam/nbn/documents/developers/standards/pit-conduit-design-standards.pdf.coredownload.pdf*

Additional requirements and explanatory information are contained in Robin Russell & Associates' *General Specification for Installation of Electricity Reticulation and Street Lighting - Issue 'AA'*.

For details of trenching and electrical conduits, refer associated RRA works plan.

In *residential* subdivisions, NBN conduits shall be laid in shared trenches, above electricity conduits. The Civil Contractor shall install road-crossing conduits and other conduits as shown (see legend).

In *commercial* subdivisions, or where no electricity conduit is present, NBN conduits shall be laid on the standard telecommunications alignment, as specified.

On State roads, the required cover of 1200mm precludes the use of shared trenches.

The installation of white warning tape is NOT required. If conduit is not installed in a shared trench with electricity, brass "C" markers shall be installed in the kerbs directly above road-crossing conduits.

Contractors shall not access existing Telstra pits or conduits.

Pits shall be installed relative to the property boundary as shown, immediately outside the exclusion zone of the electricity pillar.

The Electrical Contractor shall ascertain final verge levels from the Civil Contractor before installing conduits & pits.

The Electrical Contractor shall give the Superintendent written notice (a) 10 business days before it anticipates achieving Practical Completion of the conduit and pit installation, and (b) on achieving Practical Completion, to allow the required notices to be given to NBN Co.

Conduit lengths are nominal horizontal distances only. Fibre lengths shall be verified in advance by actual measurement.

The electrical contractor shall perform mandrel testing of all telecommunications conduits, including cross-road and lead-in conduits installed by the civil contractor.

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
09/05/2024	A	INITIAL ISSUE	RR					:

Robin Russell & ASSOCIATES PTY. LTD.
CONSULTING ENGINEERS - ELECTRICAL
SUBDIVISION ELECTRICAL SERVICES
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Tel: (07) 3872 5555
Fax: (07) 3872 5566
Email: rr@robrus.com.au
www.robrus.com.au
A.B.N. 78 010 589 661

COUNCIL	IPSWICH CITY	DESIGNED	SHANE MILLS	DESCRIPTION: TELECOMMUNICATION
COUNCIL REF	12571/2022/PDAEE	DRAWN	SHANE MILLS	
UBD REF	Map - Grid -	CHECKED	K.R.	
DWT REV	V48 20210504	APPROVED BY	ROBIN RUSSELL RPEQ 1546	CLIENT: HB Doncaster Pty. Ltd.
DATE	09/05/2024	SIGNED		

LOCATION
BELLEVUE ESTATE - STAGE 15
323 - 395 RIPLEY ROAD
RIPLEY, 4306

A1

DRAWING No.
F337-N-01A

NBN ID REQUEST No./TELSTRA AFR: STG-M000161467

SHEET No.: 1 OF 1