

NBN CONDUIT SCHEDULE - CIVIL CONTRACTOR					
CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A)			QUANTITY (metres)
		WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	
P20	SDU service drop	PN12	27mm	24mm	-
P50	road crossing	PN12	60mm	54mm	118
P50	footpath conduits adj. retaining walls	PN12	60mm	54mm	-
P100	road crossing	PN9	114mm	104mm	128
P100	footpath conduits adj. retaining walls	PN9	114mm	104mm	-
Additional trenching					24

NBN SERVICE CONDUITS IN ACCESS STRIP SCHEDULE - CIVIL CONTRACTOR					
CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A)			QUANTITY (metres)
		WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	
P20	SDU service drop - lot 10	PN12	27mm	24mm	24
P50	MDU service drop	PN12	60mm	54mm	-
Additional trenching					-

- Consumer's conduits shall be installed prior to construction of driveways to rear lots.
- Minimum clearance of 100mm shall be maintained between all services.
- Civil contractor shall leave the trench open at the end of all consumer's conduits, ensuring all conduits are capped and a suitable heavy duty cover placed over the trench opening.
- Electrical contractor shall mandrel-test, seal, and install draw ropes in all conduits.
- Conduits to extend to front property alignment.
- Electrical contractor shall extend conduits through from boundary to pit.

NBN CONDUIT SCHEDULE - ELECTRICAL CONTRACTOR					
CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A)			QUANTITY (metres)
		WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	
P20	SDU service drop	PN12	27mm	24mm	154
P100	MDU service drop	PN9	114mm	104mm	3
P50	footpath	PN12	60mm	54mm	158
P100	footpath	PN9	114mm	104mm	882
P100	distribution network	PN9	114mm	104mm	-
Additional trenching					43

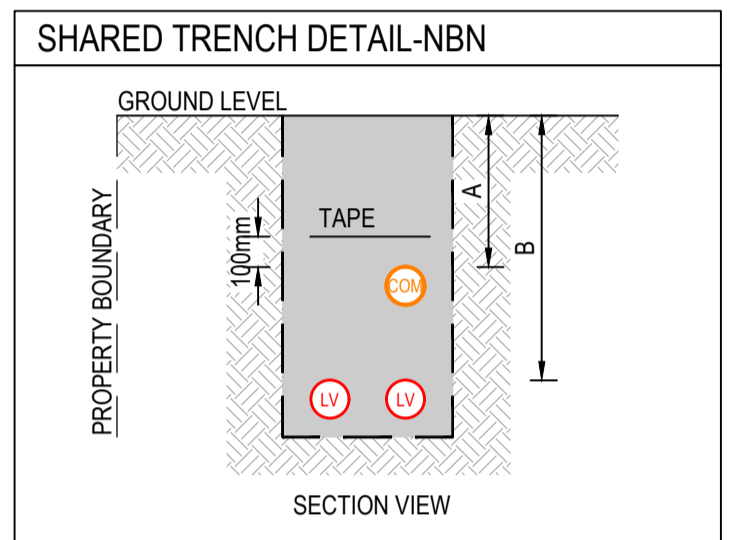
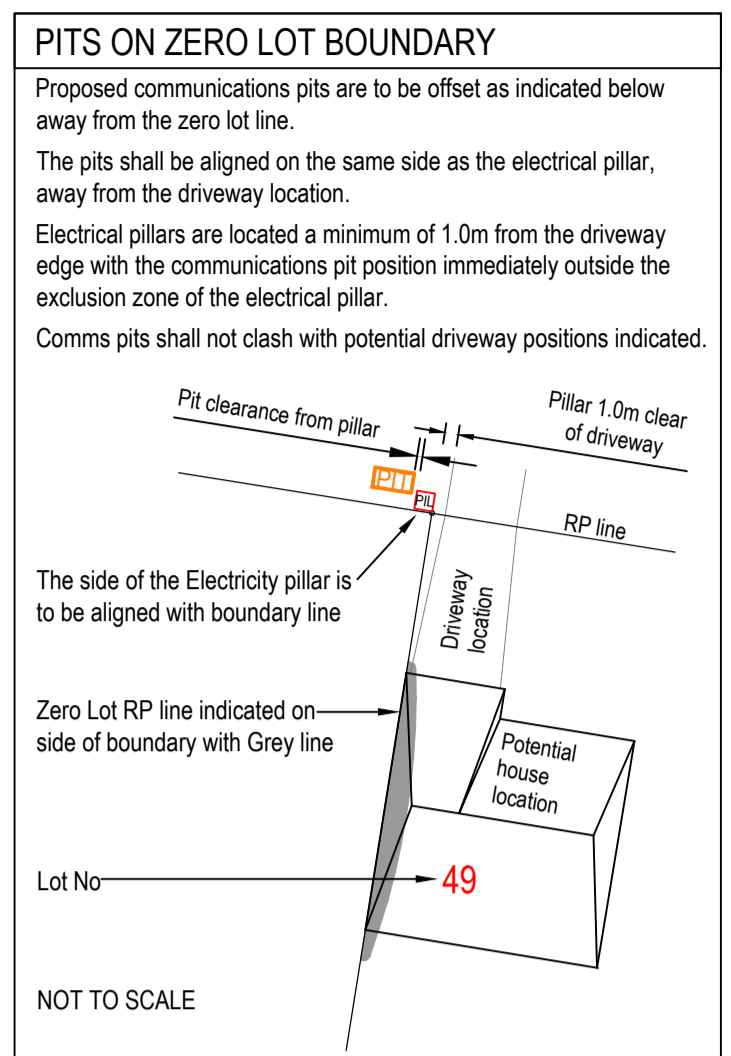
NBN PIT SCHEDULE - ELECTRICAL CONTRACTOR			
PIT CODE	ITEM	NOMINAL EXTERNAL DIMENSIONS	QUANTITY
2	service drop access pit	650 x 280 x 565mm	10
5	service/boundary pit (single lid)	700 x 450 x 650mm	8
6	local network connection pit (dual lid)	1360 x 555 x 650mm	8
8	distribution/local network connection pit (dual lid)	1360 x 555 x 860mm	1

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 V8.0

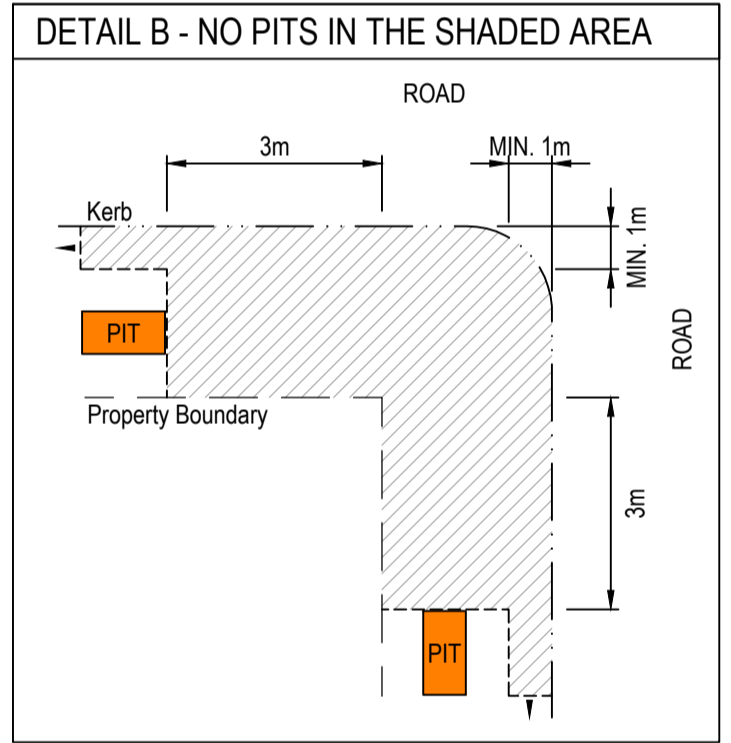


AS CONSTRUCTED
11/5/2022



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

* supersedes Energex/Ergon requirements



- ### LEGEND: NBN CONDUITS & PITS
- Fibre Access Node (FAN) site
 - Fibre Distribution Hub (FDH) site - 1m x 1m
 - Proposed 100mm Main Conduit
 - Proposed 50mm Lateral Conduit
 - 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@robus.com.au

'AS CONSTRUCTED' CERTIFICATION

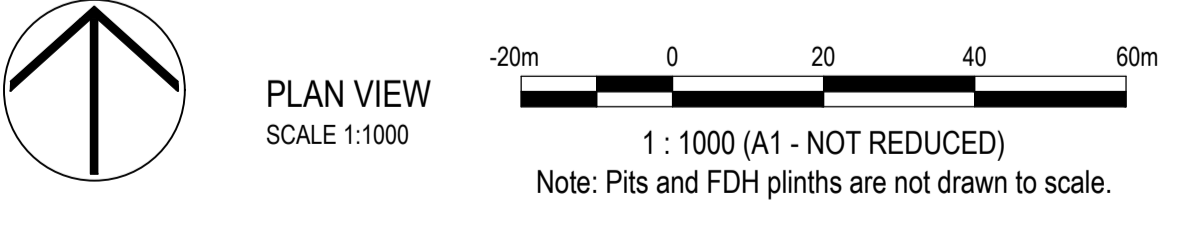
I certify as follows:
 The installation of NBN conduits and pits has been completed in accordance with this drawing & NBN specification NBN-TE-CTO-194, subject to any changes marked up in red. Mandrel testing of all conduits has been performed as detailed on the attached Mandrel Test Report. The minimum 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
 NICK MAMALIS - 07 3872 5555
 COMMS CONDUIT DESIGNER
 SHANE MILLS - 07 3872 5555
 CONSTRUCTION COORDINATOR
 SHANE HYDE - 07 3872 5555

CIVIL ENGINEER
 KN GROUP PTY LTD
 STUART MCDONWALL - 07 3017 1900



REVISED ISSUE

CAUTION: ROAD NAMES NOT YET APPROVED

SOURCE DOCUMENTS				
CREATOR	DRAWING	DWG. NO.	REV. NO.	DATE
ROBIN RUSSELL & ASSOCIATES	Electrical Reticulation	D356	D	16/11/2020

SITE INFORMATION	
TOTAL NUMBER OF LOTS	43
PROPERTY DESCRIPTION	LOTS 1-39, 45 & 102 CANCELLING LOT 600 on SP236626

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.

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
10/08/2020	A	ORIGINAL	RR					Rev C: Minor aits to civil base (lot 9 & Rd 4).
10/11/2020	B	REVISED CIVIL BASE	RR					Rev B: Revised civil base & NBN layout.
17/11/2020	C	MINOR CIVIL BASE UPDATE	RR					

Robin Russell & Associates Pty. Ltd.
 CONSULTING ENGINEERS - ELECTRICAL

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 Email: r@robus.com.au
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SPECIFICATION NO.	DESIGNED	CHECKED	APPROVED BY	SIGNED	DATE
NBN-TE-CTO-194	SHANE MILLS	K.R.	ROBIN RUSSELL RPEQ 1546	<i>Robin Russell</i>	10/08/2020

CLIENT: Department of State Development, Manuf. Inf. & Planning

NBN CONDUITS & PITS

LOCATION: **OXLEY PDA STAGE 1A, 1B & 1C 53 SEVENTEEN MILE ROCKS RD OXLEY - 4075**

DRAWING No. **D356-N-01C**

NBN ID REQUEST No. **W000130511**

SHEET No. **1 OF 1**

A1

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