

Typical OptiComm Clearance from other Underground Utility & Carrier Services

Underground Plant Item	Minimum Radial Clearance from Underground Telecommunications Cable in mm (Notes 1, 4)
Gas Pipe	
Large Main (Over 110 mm diameter)	300
Small Main (75 mm diameter or less)	150
Power Line and Service Lines	
HV	300 (Note 2)
LV	100 (Note 3)
Water Main	
High Capacity Main	300
Local Reticulation	150
Sewer	
Mains	300
Connections to Mains	150 (Note 3)
Other Carriers' Telecommunication Cables	100

NOTES:
1. Lesser separations may be used where all the parties involved concur.
2. Where protective covering/barriers have not been provided over HV Power Lines, a minimum separation should be 450 mm.
3. LV Customer Leads and Service Lines housed in appropriately coloured pipes may share a common trench or bore on private property and under roadways without specified separation.
4. Telecommunication Cable includes non-conductive or passive communications cables such as self-supporting fibre optic cable.

Pit and Pipe installation to conform with G645:2017 & C524:2013 as well as relevant local state and territory standards where practical.

BILL OF MATERIAL

BIRDWOOD COWARAMUP – STAGE 1

TOTAL No OF LOTS :45

NUMBER OF EXISTING LEAD-INS INSIDE OF STAGE BOUNDARY : 0

NUMBER OF LEAD-INS CONSTRUCTED OUTSIDE OF STAGE BOUNDARY : 0

PITS

SIZE	QTY	SIZE	QTY	MTRS
PROPOSED	ACTUAL	PROPOSED	ACTUAL	PROPOSED
2	5	2xP50	2	12.0
5	17	P50	29	1055.0
6	4	P23	45	243.0
8	0	P100	0	

TOTAL NUMBER OF PITS: 26

TOTAL NUMBER OF CONDUITS: 76

TOTAL LENGTH OF CONDUITS: 1310.0

TOTAL LENGTH OF DUCT ROPE (2XP50, P50, P100): 1121.0

DUCTS

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ALL CONDUITS ARE TO BE ROPED BY THE INSTALLATION CONTRACTOR

CONDUIT-PLUGS

ITEM	SIZE	QTY
		PROPOSED
CONDUIT BUSH	P100	0
CONDUIT BUSH	P50	58
CONDUIT BUSH	P23	45
TOTAL CONDUIT BUSHES		103
TOTAL CONDUIT NUMBER OF END CAPS:		6

CONDUIT – BENDS

ITEM	SIZE	QTY
		PROPOSED
CONDUIT BENDS	2xP50	2
CONDUIT BENDS	P50	71
CONDUIT BENDS	P23	45
TOTAL CONDUIT NUMBER OF BENDS:		118

AS BUILT USE ONLY

CONSTRUCTION COMPANY:

START DAY OF CONSTRUCTION:

END DAY OF CONSTRUCTION:

NOTE:PIT SYMBOLS ARE NOT 1:1 SCALE

NOTE:

- ALL PIT AND PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH COMM'S ALLIANCE - G645-2017
- ALL PIT LIDS ARE TO BE BRANDED AS "COMMUNICATIONS" ONLY.
- ALL LEAD-IN CONDUITS MUST HAVE DRAWSTRINGS INSTALLED.
- ALL DISTRIBUTION CONDUITS MUST BE ROPED.
- ALL LEAD-IN CONDUIT DRAWSTRINGS MUST BE LABELED WITH THE LOT/UNIT NUMBER.
- ALL CONDUITS MUST ONLY ENTER THE END WALL OF THE PITS AND INSTALLED TO CORRECT DEPTH.
- ALL CONDUITS MUST HAVE BUSHES INSTALLED AND FLUSH WITH THE PIT WALLS.
- PLEASE ARRANGE AN ONSITE INSPECTION OF THE PIT AND PIPE INFRASTRUCTURE AND OBTAIN OPTICOMM APPROVAL.
- ALL PITS TO BE INSTALLED TO FINISHED GROUND LEVELS
- THE DEVELOPER/INSTALLATION CONTRACTOR MUST SUPPLY OPTICOMM WITH DATED, SIGNED, AND REDLINED AS-BUILT OF THIS DESIGN DRAWING THAT INCLUDE CONDUIT LENGTHS AND PIT LOCATIONS AFTER THE INSTALLATION IS COMPLETED, IN ACCORDANCE WITH COMM'S ALLIANCE - G645-2017.

Diagram illustrating the typical communication services alignment. It shows the alignment of power cables (500m) and communication cables (800m) relative to the property boundary and road reserve. The pit width is 800mm, and the pit depth is 450mm. The lead-in pipe must be on the property side wall. The road crossing pipe must be on the road side. The diagram is labeled "TYPICAL COMMUNICATION SERVICES ALIGNMENT" and "WA ONLY N.T.S."

ROAD RESERVE ALLOCATION FOR UTILITY SERVICE PROVIDERS WHEN USING STANDARD ALIGNMENTS

Figure showing the allocation of road reserve for utility service providers. The allocation is based on the width of the road reserve (0.0-0.5m to 4.2-5.0m). The allocation is as follows:

ROAD RESERVE WIDTH (m)	UTILITY SERVICE PROVIDER
0.0-0.5	POWER
0.5-1.3	TELECOMMUNICATIONS
1.3-1.8	GAS
1.8-2.4	WATER
2.4-3.0	POWER, GAS, WATER, TELECOMMUNICATIONS
3.0-4.2	TELECOMMUNICATIONS
4.2-5.0	TRUNK SERVICES, TELECOMMUNICATIONS

NOTE 5, NOTE 2, NOTE 3

Notes:

- All measurements relate to distance from the boundary line on each side of the road reserve unless otherwise specified.
- Junction pits and access chambers may extend into the 2.4 – 3.0 metre corridor.
- These allocations may be interchanged with approval from all affected utility providers.
- Traffic light installation cables for synchronising systems to be located in verge by arrangement.
- Under established footpaths some variations may be necessary to Western Power and Telecommunications cable alignments following negotiation and approval from other affected utility providers.
- In general, no underground utility service shall exceed a nominal 300mm diameter in the 0.0–3.0 metre alignment. Larger utility services may be located within this alignment following negotiation and approval from other utility providers.
- Local Government reticulation or rising irrigation main to be located beyond the 3.0 metre alignment by arrangement.

FOR CONSTRUCTION

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WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF UNDERGROUND CABLES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE CHECKED ON SITE. LOCATE ALL UNDERGROUND SERVICES AND CABLES BEFORE COMMENCEMENT OF WORK.

DIAL 1100

BEFORE YOU DIG

REV	DATE	DESIGN	DESCRIPTION	CHECKED	APPROVED
3	17-09-25	E.G. UPD	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
2	14-07-25	E.G. (UPD)	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
1	26-03-25	E.G. (UPD)	CIVIL DESIGN ISSUED FOR CONSTRUCTION	T.B.	N.V.

1x 100mm (ID) Telecommunication Pipe

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2x 50mm (ID) Telecommunication Pipe

1x 50mm (ID) Telecommunication Pipe

1x 100mm (ID) Telecommunication Pipe

2x 100mm (ID) Telecommunication Pipe

3x 100mm (ID) Telecommunication Pipe

4x 100mm (ID) Telecommunication Pipe

5x 100mm (ID) Telecommunication Pipe

2x 50mm (ID) Telecommunication Pipe

1x 50mm (ID) Telecommunication Pipe

1x 100mm (ID) Telecommunication Pipe

2x 100mm (ID) Telecommunication Pipe

3x 100mm (ID) Telecommunication Pipe

4x 100mm (ID) Telecommunication Pipe

5x 100mm (ID) Telecommunication Pipe

2x 50mm (ID) Tele



