

16 November 2020

Jacques Laubscher
Supervisor – TCE Telstra Wideband
Downer Group
9 Modal Crescent
CANNING VALE WA 6155

Dear Jacques

RE: FLORA AND FAUNA ASSESSMENT, LEEMING ROAD LEEMING

Please find enclosed a summary of the flora and fauna assessment carried out by Natural Area ahead of trenching and drilling for service installation along Leeming Road in the vicinity of the Thornlie -Cockburn train line currently being constructed by NEWest Alliance. The site was surveyed by Natural Area Lead Botanist/Zoologist Sharon Hynes on 13 November 2020. The on-ground survey indicated that the proposed drilling areas are located in areas with little native vegetation and condition primarily degraded or completely degraded. No evidence of fauna in those locations were observed.

Regards



Sue Brand
Senior Environmental Scientist

Introduction

Natural Area Consulting Management Services (Natural Area) was commissioned by Downer Group to undertake a flora and fauna survey along the service corridor along Leeming Road, Leeming, adjacent to the Thornlie – Cockburn line currently being constructed by NEWest. The Downer Group are in the process of installing communication and electrical cables along an area between two firebreaks on the southern side of Leeming Road in Leeming, and as a means of avoiding the presence of any native vegetation are proposing to carry out the installation via subsurface drilling combined with the excavation of a series of 550 mm x 500 mm drill pits for an approximate 1500 m length rather than installing open trenches. The excavator will be parked between current vegetation in cleared patches that contain no native vegetation, with the hole drilled to the next pit dug by the excavator parallel to the ground level at a depth of 1.2 m below the ground. Plans are provided as Appendix 1.

Flora Survey Results

The flora survey undertaken on the 13 November 2020 confirmed:

- the vegetation type was Banksia Woodland in a Degraded or Completely Degraded condition
- native species included *Banksia menziesii*, *Allocasuarina fraseriana* and *Melaleuca preissiana* trees, *Adenanthos cygnorum*, and *Regelia ciliata* shrubs, sparse native sedges, herbs including *Hypolaena exsulca* and *Lyginia barbata*
- none of these are listed as Threatened or Priority species under the *Biodiversity Conservation Act* 2016 (WA) or the *Environment Protection and Biodiversity Conservation Act* 1999 (Cwlth)
- the degraded nature of the site means the area in question is unlikely to be considered the threatened ecological community Banksia Woodland of the Swan Coastal Plain.

Indicative photos of the site are provided in Figure 1.



Figure 1: Current site conditions, Leeming Road, Leeming

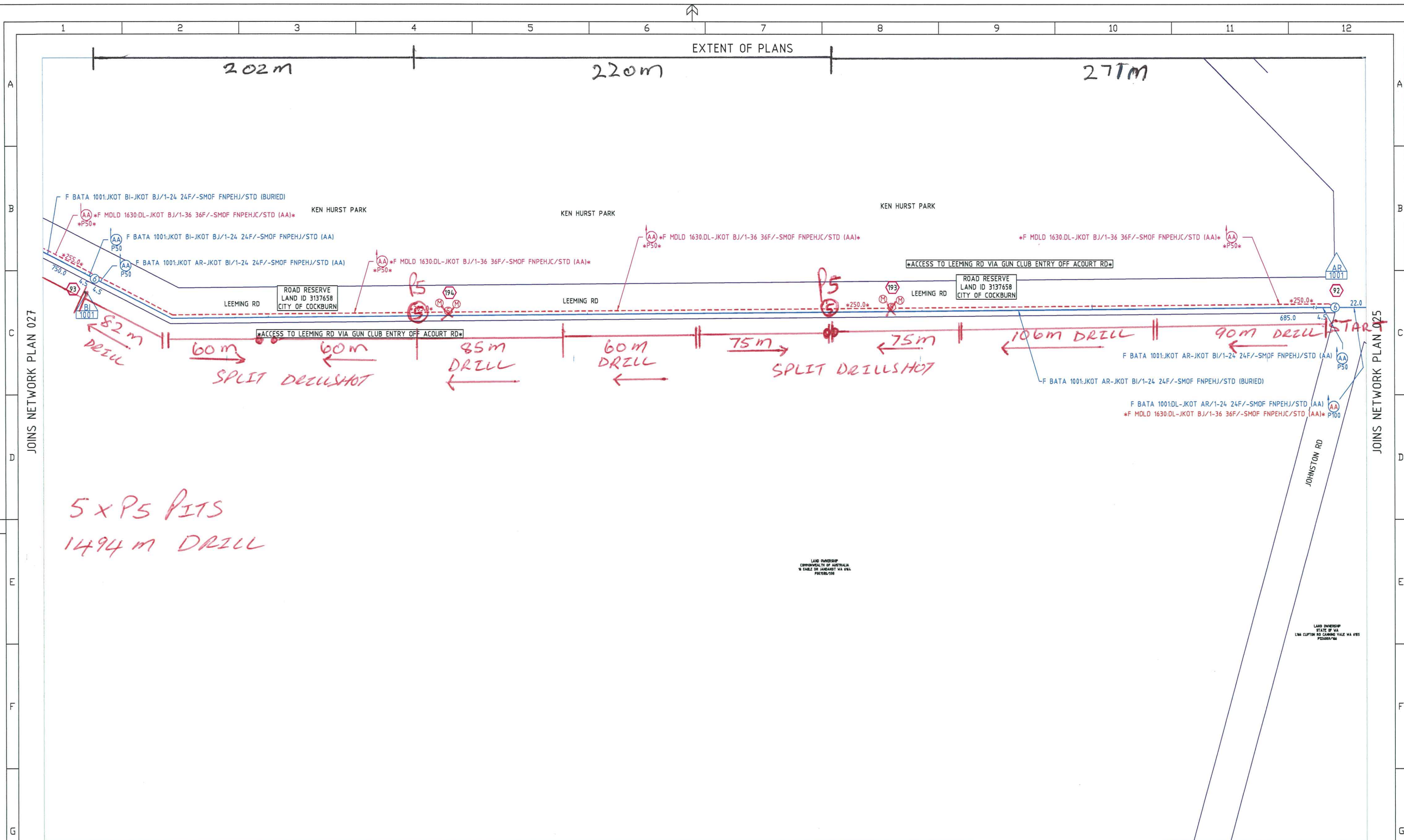
Fauna Survey Results

The survey carried out on 13 November 2020 did not record any fauna species present within the proposed drilling areas.

Implications of Results

The proposed drilling activities are unlikely to have any direct impact on native vegetation. Telstra have since advised Downer that it will be acceptable to carry out the cable installation within the 4.2 alignment area, meaning that impacts to native vegetation will further decrease. Where possible, it is recommended that if drilling is to occur within proximity to native species, that the root zone of the plant is avoided; as a generalisation the main root zone will coincide with the extent of the canopy, but can extend further according to species and form.

Appendix 1: Proposed Drilling Locations



SYMBOL LEGEND

W	WATER IN MANHOLE	DELETED NETWORK	OTHER CARRIER COMMS	PROP OPTICAL FIBRE ACCESS POINT (FAP)	10' DEPTH OF COVER
1	REFERENCE LOCATION	EXISTING DATA CORRECTION	EXISTING TERMINATION BOX	EXISTING FRAME	15' OFF SET DISTANCE
EXISTING MANHOLE	EXISTING PILLAR	PROPOSED TERMINATION BOX	REFER OTHER PROJECT SOW	PROPOSED FRAME	OFF SET CODE LIST
PROPOSED MANHOLE	PROPOSED PILLAR	REFER OTHER PROJECT SOW	REFER OTHER PROJECT SOW	PROPOSED FRAME	LEFT = OFF BOY
EXISTING TELSTRA PIT	EXISTING CONDUIT	EXISTING MARKER POST	EXISTING MARKER POST	EXISTING CABINET	BOX = BACK OF KERB
PROPOSED TELSTRA PIT	PROPOSED CONDUIT	EXISTING OPTICAL FIBRE ACCESS POINT (FAP)	EXISTING OPTICAL FIBRE ACCESS POINT (FAP)	PROPOSED CABINET	EDR = EDGE OF ROAD
EXISTING U/G CONSTRUCTION	PROPOSED U/G CONSTRUCTION	PROPOSED U/G CONSTRUCTION	PROPOSED U/G CONSTRUCTION	PROPOSED U/G CONSTRUCTION	UNDEFINED
EXISTING O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	ISL = TRAFFIC ISLAND
PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	PROPOSED O/H CONSTRUCTION	R/S = ROADSIDE OF KERB LIP
					ESL = EXISTING SURFACE LEVEL TO TOP OF DUCT
					FSL = FINAL SURFACE LEVEL TO TOP OF DUCT

FOR TENDER

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ASHWORTH AUSTRALIA

ABN 13 499 894 492

TELECOMMUNICATIONS DESIGN, FEASIBILITY AND PROJECT MANAGEMENT CONSULTANTS

1233/1 QUEENS RD MELBOURNE VIC 3004

PH: 03 98638047

WWW.ASHWORTHAUSTRALIA.COM.AU

PLAN APPROVAL -

Telstra NIS approved DATE: 29/06/20

SIGNED: Stamped approved on original

TELSTRA NETWORK INTEGRITY

REVISION	DESCRIPTION	APPROVED	DATE
F	FOR TENDER	CJG	29/06/20
E	FOR TENDER	GWA	01/01/20
D	PRELIMINARY DESIGN	CJG	23/12/19
C	PRELIMINARY CIVILS	CJG	31/08/19
B	PRELIMINARY CIVILS	CJG	23/04/19
A	DRAFT	BH	22/11/18

AMENDMENTS

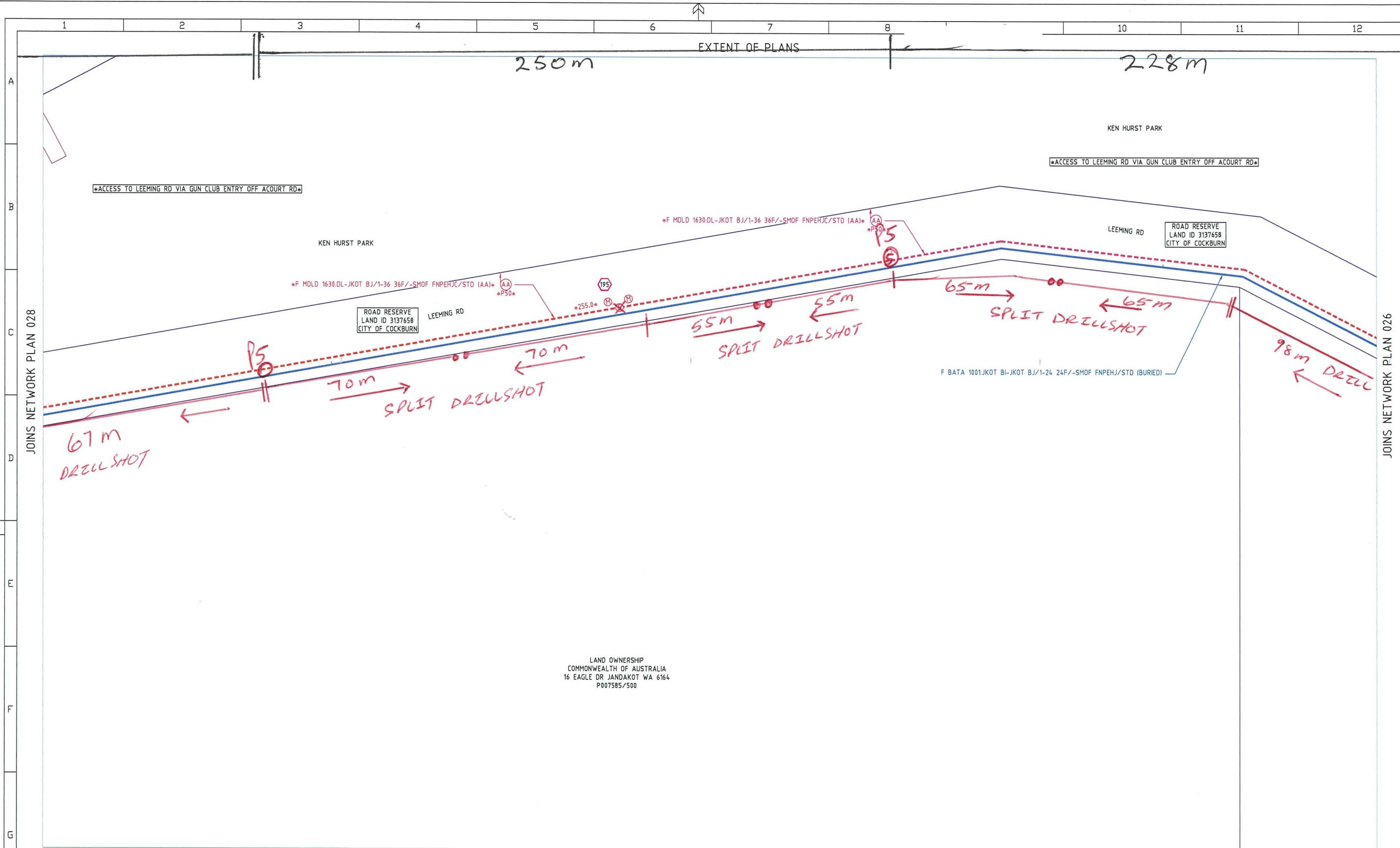
NOTE: UNLESS NOTED OTHERWISE

1. DISTANCES ARE ALL SURFACE MEASUREMENTS IN METRES.
2. ALL CONDUITORS 0.40 DIAMETER AND SHEATH TYPE PE
3. PIT CONSTRUCTION TYPE - PVC FORMED TELSTRA STANDARD
4. ALL PLANT TO BE INSTALLED TO CURRENT TELSTRA STANDARD
5. ALL ALIGNMENTS TO EXISTING UTILITY AND LGA AGREEMENTS

STATE WA

EXCHANGE CNVL

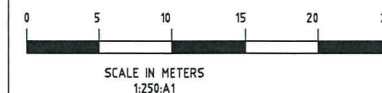
SHEET NO. 27 OF 35



LAND OWNERSHIP
COMMONWEALTH OF AUSTRALIA
16 EAGLE DR JANDAKOT WA 6164
P007585/500

EXTENT OF PLANS

ALL EXISTING AND PROPOSED SERVICES WHERE APPLICABLE (WITH THE EXCEPTION OF PROPOSED TELSTRA) AND ALL ASSOCIATED SERVICES ALIGNMENTS SHOWN HAVE BEEN PROVIDED BY THE CLIENT FOR THE PURPOSE OF PRODUCING THIS DESIGN DRAWING. NO RESPONSIBILITY OR LIABILITY WILL BE ACCEPTED BY TELSTRA CORPORATION OR ASHWORTH AUSTRALIA PTY LTD FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN. THE TELSTRA CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICES ARE IDENTIFIED ON SITE PRIOR TO CONSTRUCTION.



SYMBOL LEGEND	
W	WATER IN MANHOLE
1	REFERENCE LOCATION
EXISTING MANHOLE	
EXISTING TELSTRA PIT	
PROPOSED TELSTRA PIT	
EXISTING U/G CONSTRUCTION	
PROPOSED U/G CONSTRUCTION	
EXISTING O/H CONSTRUCTION	
PROPOSED O/H CONSTRUCTION	
DELETED NETWORK	
EXISTING DATA CORRECTION	
EXISTING PILLAR	
PROPOSED PILLAR	
EXISTING CONDUIT	
PROPOSED CONDUIT	
POWER EPR HAZARD AREA	
OTHER CARRIER COMMS	
EXISTING TERMINATION BOX	
PROPOSED TERMINATION BOX	
REFER OTHER PROJECT SOW	
EXISTING MARKER POST	
PROPOSED MARKER POST	
EXISTING OPTICAL FIBRE ACCESS POINT (FAP)	
PROPOSED OPTICAL FIBRE ACCESS POINT (FAP)	
EXISTING FRAME	
PROPOSED FRAME	
EXISTING CABINET	
PROPOSED CABINET	

1.0. DEPTH OF COVER	---	EXIST COMMS
TS OFF SET DISTANCE	---	EXIST GAS
OFF SET CODE LIST	---	EXIST SEWER
LEFT = OFF BODY	---	EXIST POWER
BoK = BACK OF KERB	---	EXIST WATER
EoR = EDGE OF ROAD	---	EXIST DRAIN
U = UNDEFINED	---	(T) = PROP COMMS
ISL = TRAFFIC ISLAND	---	(G) = PROP GAS
R/S = ROADSIDE OF KERB LIP	---	(S) = PROP SEWER
ESL = EXISTING SURFACE LEVEL	---	(E) = PROP POWER
TO TOP OF DUCT	---	(W) = PROP WATER
FSL = FINAL SURFACE LEVEL	---	(D) = PROP DRAIN
TO TOP OF DUCT	---	

FOR TENDER

THIS PLAN CONTAINS COMMERCIAL SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ON TO OTHER PARTIES WITHOUT WRITTEN CONSENT OF THE TELSTRA CORPORATION.

NP 064

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Ashworth Australia

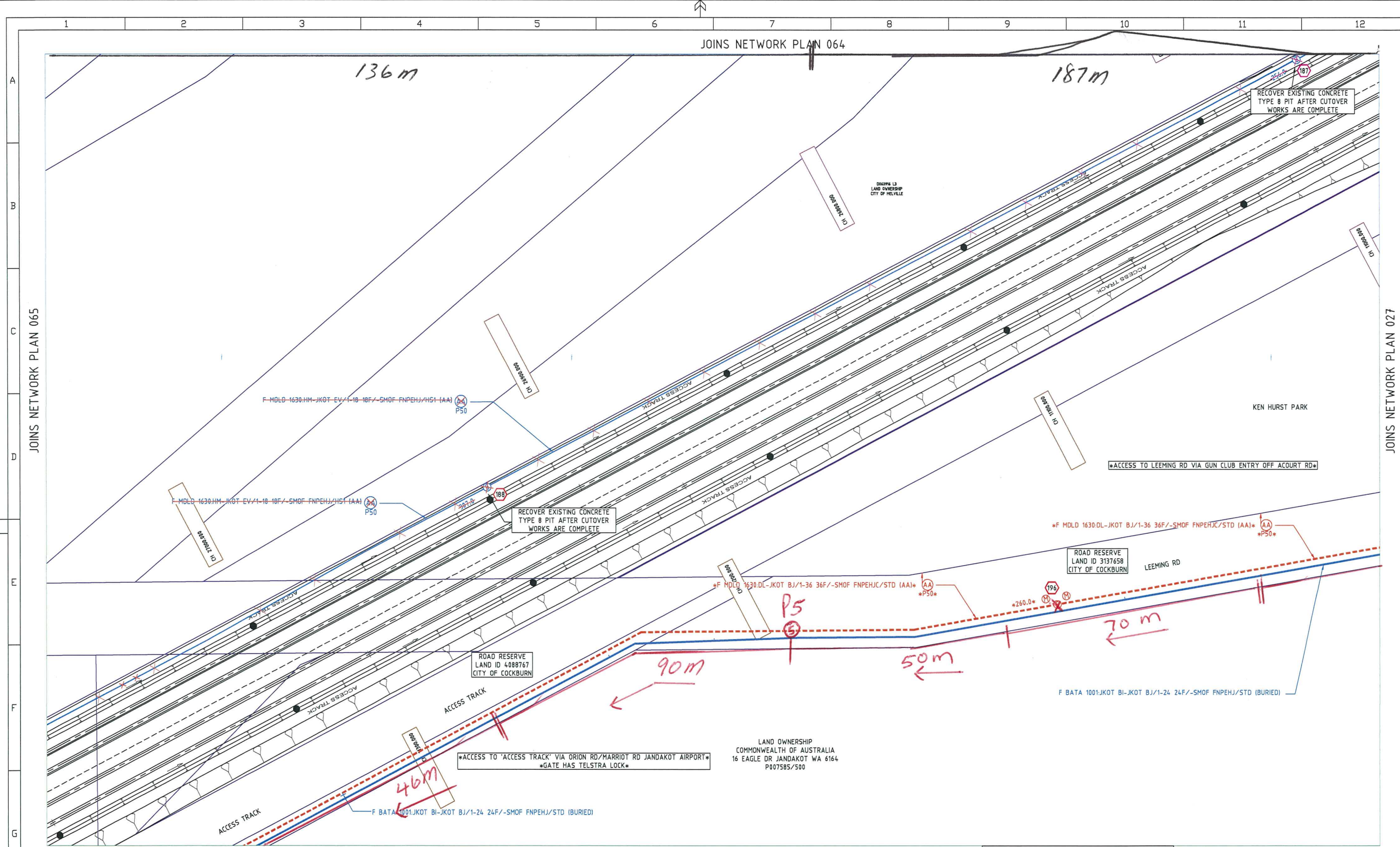
ABN 13 618 894 492
TELECOMMUNICATIONS DESIGN, FEASIBILITY AND PROJECT MANAGEMENT CONSULTANTS
1233/1 QUEENS RD MELBOURNE VIC 3004
PH: 03 98628847
www.ashworthaustralia.com.au

PLAN APPROVAL

Telstra N.I.S. approved: DATE: / / 2020
SIGNED: Stamped approved on original
TELSTRA NETWORK INTEGRITY

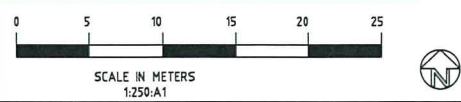
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A	DRAFT	BH	22/11/18

JOB REF	P1199427-3
TITLE	F MDLD 1630 DIVERSION
LAYOUT	NETWORK PLAN 027
NOTE: UNLESS NOTED OTHERWISE	
1. DISTANCES ARE ALL SURFACE MEASUREMENTS IN METRES.	
2. ALL CONDUCTORS 0.40 DIAMETER AND SHEATH TYPE PE	
3. PIT CONSTRUCTION TYPE - PVC FORMED TELSTRA STANDARD	
4. ALL PLANT TO BE INSTALLED TO CURRENT TELSTRA STANDARD	
5. ALL ALIGNMENTS TO EXISTING UTILITY AND LGA AGREEMENTS	
STATE	WA
EXCHANGE	CNVL
SHEET NO.	28 OF 75



JOINS NETWORK PLAN 029

ALL EXISTING AND PROPOSED SERVICES WHERE APPLICABLE (WITH THE EXCEPTION OF PROPOSED TELSTRA) AND ALL ASSOCIATED SERVICES ALIGNMENTS SHOWN HAVE BEEN PROVIDED BY THE CLIENT FOR THE PURPOSE OF PRODUCING THIS DESIGN DRAWING. NO RESPONSIBILITY OR LIABILITY WILL BE ACCEPTED BY TELSTRA CORPORATION OR ASHWORTH AUSTRALIA PTY LTD FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN. THE TELSTRA CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICES ARE IDENTIFIED ON SITE PRIOR TO CONSTRUCTION.



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10. DEPTH OF COVER	
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ISL = UNDEFINED	
R/S = ROADSIDE OF KERB LIP	
ESL = EXISTING SURFACE LEVEL TO TOP OF DUCT	
FSL = FINAL SURFACE LEVEL TO TOP OF DUCT	
---	EXIST COMMS
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FOR TENDER

65 NP 028 NP

NP 029

THIS PLAN CONTAINS COMMERCIAL SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ON TO OTHER PARTIES WITHOUT WRITTEN CONSENT OF THE TELSTRA CORPORATION.

Ashworth Australia

ABN 13 498 094 492

TELECOMMUNICATIONS DESIGN, FEASIBILITY AND PROJECT MANAGEMENT CONSULTANTS

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PLAN APPROVAL -

Telstra N.I.S. approved: DATE: / / 2020

SIGNED: Stamped approved on original

TELSTRA NETWORK INTEGRITY

REVISION	DESCRIPTION	APPROVED	DATE
F	FOR TENDER	CJG	29/06/20
E	FOR TENDER	GWA	01/01/20
D	PRELIMINARY DESIGN	CJG	23/12/19
C	PRELIMINARY CIVILS	CJG	31/08/19
B	PRELIMINARY CIVILS	CJG	23/04/19
A	DRAFT	BH	22/11/18

JOB REF	P1199427-3
TITLE	F MDLD 1630 DIVERSION
LAYOUT	NETWORK PLAN 028
NOTE: UNLESS NOTED OTHERWISE	
1. DISTANCES ARE ALL SURFACE MEASUREMENTS IN METRES.	
2. ALL CONDUITORS 0.40 DIAMETER AND SHEATH TYPE PE	
3. PIT CONSTRUCTION TYPE - PVC FORMED TELSTRA STANDARD	
4. ALL PLANT TO BE INSTALLED TO CURRENT TELSTRA STANDARD	
5. ALL ALIGNMENTS TO EXISTING UTILITY AND LGA AGREEMENTS.	
STATE	WA
EXCHANGE	CNVL
SHEET NO.	29 OF 75

