Muriel Court

Development Contribution Plan 11 (DCP 11)

REPORT

2026

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Acknowledgement of Country

The Mayor, Councillors and staff of the City of Cockburn acknowledge the Whadjuk Nyungar people of Beeliar boodja as the traditional custodians of this land. We pay our respect to the Elders, past and present.

Muriel Court Development Contribution Plan Report

Note: This report does not form part of the planning scheme but provides the rationale and justification for the Development Contribution Plan (DCP), the calculation of costs, and the cost apportionment schedule specifying the costs for each owner.

Development Contribution Area

The Development Contribution Area (DCA) is shown on the Scheme Map as 'DCA 11'.

Purpose

The purpose of the DCP Report is to:

a) enable the applying of infrastructure contributions for the development of new, and the upgrade of existing infrastructure which is required because of increased demand generated in the DCA.
b) provide for the equitable sharing of the costs of infrastructure and administrative items between owners.
c) ensure that cost contributions are reasonably required because of the subdivision and development of land in the DCA.
d) coordinate the timely provision of infrastructure.

The DCP provides for the sharing of costs associated with various infrastructure necessary to support subdivision and development within Development Area 19 (Muriel Court) and the Muriel Court Structure Plan area.

Period of the Plan

10 years commencing 20 October 2023 to 30 June 2033.

The plan may also be extended for further periods (with or without modification) by subsequent Scheme Amendments.

Operation of DCP

DCP 11 has been prepared in accordance with the provisions of TPS 3 and SPP 3.6. It came into effect upon the gazettal of Amendment 67 to TPS 3 on the 7 May 2010.

DCP 11 operates in accordance with the provisions of TPS 3 and requires landowners to make a financial contribution towards the cost of key infrastructure works required to facilitate development within the Muriel Court Structure plan area. The requirement to contribute is specified in clause 5.3.14 of TPS 3.

The requirement to contribute under DCP 11 would typically arise as a condition of subdivision approval, however it may occur through other arrangements as specified in clause 5.3.14 of TPS 3.

DCP 11 is operational in the same area as DCP 13, which relates to community infrastructure. Landowners will be required to satisfy their contribution obligations under both DCPs.

Application Requirements

Where an application for subdivision, strata subdivision, development or an extension of land use is lodged which relates to land to which this plan applies, the local government shall take the provisions of the plan into account in making a recommendation on or determining that application.

Items Included in the Plan

The DCP provides for a portion of the cost of land and works associated with delivery of key infrastructure identified in the Muriel Court Structure Plan Area, to be equitably distributed between developing landowners within the DCA.

The following infrastructure items are included in DCP 11 as listed in Table 10 of TPS 3:

- Upgrading of North Lake Road between Kentucky Court and Semple Court include upgrading the existing carriageway, construction of the future carriageway, drainage, lighting, landscaping, and service relocation where necessary.

- The cost of land and works for the widening and realignment of Semple Court between Verna Court and North Lake Road as shown on the Muriel Court Structure Plan. The cost of works is the cost over and above that of providing a normal subdivision road with drainage, lighting, footpaths, and parking embayment's which will be a cost to the owners of the adjoining land.

- The cost of land and works for the realignment of Semple Court shown on the

Muriel Court Structure Plan between Berrigan Drive and Verna Court. Works are to include the cost of the carriageways, median landscaping, drainage, lighting, and paths.

- Traffic management devices along realigned Semple Court and traffic lights at the intersection of Semple Court with Berrigan Drive and North Lake Road.
- Modifications to existing Semple Court including closures and pavement modifications shown on the Muriel Court Structure plan.
- Cost of land and works for the realignment of Elderberry Drive between Berrigan Drive and Jindabyne Heights.
- The cost of land and works for the widening of Muriel Court and Kentucky Court between realigned Semple Court and North Lake Road as shown on the Muriel Court Structure plan. The cost of works is the cost over and above that of providing a normal subdivision road with drainage, lighting, footpaths, and parking embayment's which will be a cost to the owners of the adjoining land.
- Traffic management devices along Muriel Court and traffic lights at the intersection of Kentucky Court and North Lake Road.
- Provision of land for public open space areas shown on the Muriel Court Structure Plan and the cost of landscaping and bushland/wetland restoration.
- Land and works for internal and off-site groundwater control and drainage infrastructure including detention basins, gross pollutant traps, nutrient stripping, and landscaping.
- Preliminary professional services including drainage, services, geotechnical, site contamination, traffic, and planning.
- Further detailed studies and design including design guidelines and engineering design of drainage and major roads.
- Costs to administer cost sharing arrangements of the DCA including detailed engineering design of drainage and roads the subject of the DCA provisions, cost estimates and schedules, valuations, annual reviews of land and works, audits and administrative costs.
- Cost including fees and interest of any loans raised by the local government to undertake any of the works associated with DCA 11.

The following lots shall contribute to the cost to administer cost sharing arrangements of the DCA and a proportional contribution to the road and drainage works listed above unless rezoned to residential in which case all the above requirements will apply.

- Lot 52 Semple Court 1.25% of the total cost
- Lot 3 Verna Court 7.6% of the total cost
- Lot 21 Verna Court 1.5% of the total cost

The abovementioned infrastructure represents typical subdivision works, however given the fragmentation of landowners in the precinct and the scale of some infrastructure it is not reasonable to expect one subdivider funds the infrastructure.

The cost of infrastructure includes all the initial capital costs associated with the provision of the infrastructure item and excludes ongoing maintenance and operating costs of the infrastructure.

Maps detailing the proposed location of the infrastructure included within this DCA are provided in Annex 1 – Maps.

Estimated Costs

The overall estimated cost of the key infrastructure works, including administration, consultant and audit costs is **$59,695,730.59** (as of 16 October 2026).

A detailed summary of the cost breakdown for each infrastructure item is included in Annex 2 – Cost Apportionment Schedule (CAS) and Annex 3 – Cost Schedules.

The costs allocated to this DCP have been derived based on preliminary concept plans and will need to be reviewed when detailed briefs and plans have been prepared.

The estimated cost of the infrastructure item will be reviewed at least annually. If during the year more detailed costings have been prepared, then these would be adopted in preference to broad based estimates. In all other instances the cost estimates will be adjusted to reflect current pricing and the cost indexed based on the Building Cost Index or other appropriate index as approved by an appropriately qualified independent person.

The percentage contingencies applied to the estimates is at the higher end when the design is still in early phases with the intention they reduce as certainty over design and costs become more certain.

Details of infrastructure designs upon which costs are based are included in Annex 5 – Infrastructure Project Designs.

Method of Calculating Contribution

All landowners within Development Contribution Area 11 (DCA 11) are required to contribute towards the cost of land acquisition and infrastructure works associated with the development of the Cockburn Central North (Muriel Court) Structure Plan, in accordance with the provisions of DCP11.

Except for existing Lots 3 and 21 Verna Court and Lots 52 and 150 Semple Court, the contributions are calculated based on the potential dwelling yield of each lot or lots, having regard to the applicable residential density code (R-Code) and the corresponding density potential set out below:

Residential density code	Area per potential dwelling
R20	450m²
R25	350m²
R40	220m²
R60	166m²
R80	125m²
R160	62.5m²

For R160 lots, the potential dwelling yield is calculated by dividing the applicable lot area (m^2) by 62.5.

No contribution is payable in respect to the following items, as these are excluded from the applicable contribution calculation.

- Land and lots required for public open space
- The widening and extension of Muriel Court and Kentucky Court
- The widening and realignment of Semple Court (Ngort Drive)
- Drainage

Minimum Dwelling Yield Requirements

Lots within the Cockburn Central North (Muriel Court) Structure Plan area is subject to Development Area 19 (DA19) under the City of Cockburn's Town Planning Scheme No. 3 (TPS 3).

DA19 requires all subdivisions and development to achieve at least 75% of the potential dwelling yield achievable under the R-Code designated for the relevant application area in the adopted Local Structure Plan (LSP).

Contribution Rate

The adopted contribution rate for DCP 11, as of 16 October 2026 is **$25,770.15 per potential lot or dwelling.** The rate is calculated by deducting the DCP reserve balance from the total DCP costs and dividing the amount by the remaining potential dwelling yield at 75%.

The increase in the DCA11 contribution rate (independently certified by external consultants) reflects changes in land valuations under current market conditions, increased construction costs and general cost escalation, including higher fuel, bitumen-based products and other construction materials. As development progresses, a reduction in the remaining contribution area or number of dwellings also means that the remaining infrastructure costs are recovered from fewer contributors.

Contribution Rate Calculation

Contribution Rate ($/potential dwelling)
= (DCP Cost – Reserve Balance) / Remaining Potential Dwellings at 75% yield.
= (DCP Cost – Reserve Balance) / 1,949
= $25,770.15 per potential dwelling or lot

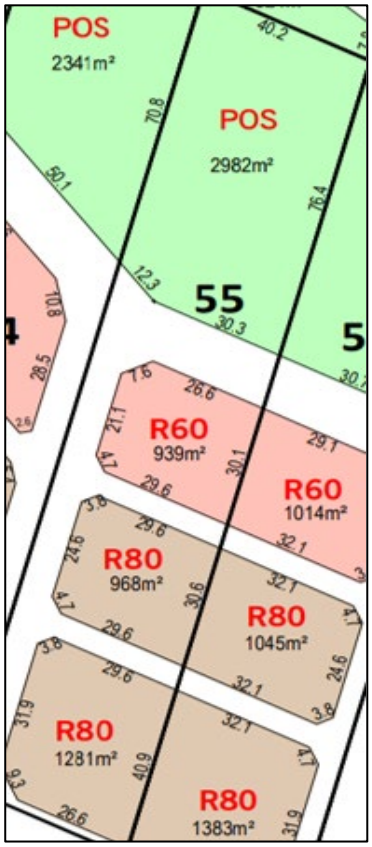
An individual landowner's contribution is calculated by dividing the potential developable area of the subject site by the applicable density potential specified in Table 10 of TPS3 and multiplying the result by the adopted contribution rate.

Landowner's Cost Contribution ($)
= (Potential Developable Area of Subject Site / Density Potential) × Contribution rate
= (Potential Developable Area of Subject Site / Density Potential) × $25,770.15

Calculation Example:

The following example illustrates the calculation of a contribution for a site identified in the LSP that contains POS, land required for DCP11 road purposes and residential land with varying R-Codes.

DCA11 Calculation Map



Site characteristics

Item	Area
Total developable area	3,188 m²
POS land	2,982 m²
DCP11 Muriel Court road land *(over and above the standard 15m road reserve*	69 m²

Potential dwelling yield

Residential density	Calculation	Potential dwellings
R60	939 m² / 166 m²	5
R80	968 m² / 125 m²	7
R80	1,281 m² / 125 m²	10
Total dwelling yield at 75%		**22**

Contributions and land credits

Item	Calculation	Amount
Contribution payable	22 dwellings x $25,770.15	~$566,943.30
POS land credit	2,982 m² x $265 m²	~$790,230
DCP 11 road land credit	69m² / $265 m²	~$18,285
Total land credits		**~$808,515**
Net contribution position		**~$241,571** ***credit***

Land credits less contributions payable

Note: This example is illustrative only. All cost estimates and valuation rates are based on October 2026 estimates and are subject to change.

Treatment of Contribution Credits

Contribution credits will be managed in accordance with the applicable provisions of State Planning Policy 3.6 – Infrastructure Contributions (SPP 3.6), including clause 6.10.14, where applicable.

For further information, refer State planning policy 3.6 infrastructure contributions.

Special Contribution Arrangement for Specified Lots

Lots 3 and 21 Verna Court and Lot 52 Semple Court are subject to special contribution arrangements.

Unless these lots are rezoned for residential purposes, the applicable landowners are required to contribute towards the administration of the DCA cost-sharing arrangements, and a proportional share of the relevant road and drainage works identified in DCP 11. If rezoned for residential purposes, the general contribution requirements outlined above will apply, subject to the provisions of DCP 11.

The applicable arrangements for the specified lots are set out below:

Lot 3 Verna Court

The contribution payable by Lot 3 Verna Court is calculated as 7.60% of the applicable DCA11 costs, excluding costs associated with the provision POS.

Contribution ($)
= (Total DCP Cost – POS provision and Works) × 7.60%
= ($59,695,730 – $22,925,969) × 7.60%
= $36,769,761 × 7.60%
= $2,794,501

Lot 21 Verna Court

The contribution payable by Lot 21 Verna Court was calculated as 1.50% of the applicable DCA11 costs, excluding the costs associated with the provision of POS.

The contribution of $202,314.38 was settled on 6 November 2017.

Contribution ($)
= (Total DCP Cost – POS provision and works) × 1.50%

Lot 52 Semple Court

The contribution payable by Lot 52 Semple Court is calculated as 1.25% of the applicable DCA11 costs, excluding the costs associated with the provision of POS.

Contribution ($)
= (Total DCP Cost – Public Open Space Provision and Works) × 1.25%
= ($59,695,730 – $22,925,969) × 1.25%
= $36,769,761 × 1.25%
= $459,622

Infrastructure Costs

Land Acquisitions

The total estimated land acquisition cost for roads and public open space (POS) under DCA11 is **$20,376,840.**

Land acquisition costs are calculated using the applicable valuation rates ($/m²) specified in Annex 2 – Cost Apportionment Schedule (CAS), in accordance with the following formula:

Land Acquisition Cost ($)
= Land take Area(m²) x Applicable Valuation Rate ($/m²)

Where a landowner is required to cede land for roads in excess of the area ordinarily required for a standard subdivision road, and/or land for POS, the land is to be ceded as a condition of subdivision approval.

At the time subdivision clearance is sought, the assessed value of the land ceded for these purposes will be credited against the landowner's DCP 11 contribution liability, in accordance with the applicable provisions of DCP 11.

This credit applies to the value of the land provided and is separate from any construction or infrastructure costs payable under DCP 11.

Road Upgrades

The estimated cost of constructing and upgrading key roads identified within the Cockburn Central North (Muriel Court) Structure Plan area under DCP11 is **$20,983,380.**

A breakdown of the estimated costs for each road infrastructure item is provided in Annex 2 – Cost Apportionment Schedule (CAS).

Public Open Space

The total estimated cost of landscaping POS and restoring bushland and wetland areas within the Cockburn Central North (Muriel Court) Structure Plan area is **$6,278,214.**

A breakdown of the estimated costs for these works is provided in Annex 2 – Cost Apportionment Schedule (CAS) and Annex 3 – Cost Schedules.

Priority and Timing of Delivery

The DCA11 infrastructure is a significant capital works project, the current priority and timing for which is determined by the following:

a) City of Cockburn Strategic Community Plan Strategic Community Plan 2025-2035
previously referred to as the City's Plan for the District

b) City of Cockburn Long Term Financial Plan 2024-2034 . Provides a ten-year outlook of the City's financial position and informs the planning and delivery of major capital works.

Given the fragmented nature of the Muriel Court development area, it is difficult to predict the timing, location and rate of development within the Muriel Court Structure Plan Area.

The delivery of the infrastructure items identified in this plan should therefore be demand-driven and aligned with the progression of development. Where development within the Development Area 19 has not progressed sufficiently to justify the provision of infrastructure, the City will need to assess the optimal timing of those works, having regard to development demand, infrastructure requirements, servicing needs and efficient delivery of the planned infrastructure.

Construction of the following infrastructure items has been completed:

- Upgrading North Lake Road between Kentucky Court and Semple Court
- Traffic lights at Kentucky Court and North Lake Road intersection

Depending on the timing of subdivision and development within the area and where practical, the following infrastructure is to be delivered within 7 years.

- Widening and realignment of Semple Court between Verna Court & North Lake Road
- Widening and realignment of Semple Court between Berrigan Drive & Verna Court
- Traffic management devices along realigned Semple Court including traffic lights at the intersection of Semple Court with Berrigan Drive and North Lake Road
- Modifications to existing Semple Court
- Realignment of Elderberry Drive between Berrigan Drive to Jindabyne Heights
- Widening and upgrading of Muriel Court and Kentucky Court between realigned Semple Court and North Lake Road
- Traffic management devices along Muriel Court

- Public open space – Land, development & bushland/wetland restoration
- Groundwater control & drainage infrastructure

The City's Project Plans 2026-2027 outline the project timeline and funding allocations for the Elderberry Drive and Berrigan Roundabout, with delivery currently planned for financial year FY2028.

Note: the dates and timeframes outlined above are indicative only and may be subject to change.

Payment of Contributions

Payment of contributions are in accordance with the provisions of clause 5.3.14 of TPS 3:

5.3.14.1 The owner, with the agreement of the local government, is to pay the owner's cost contribution by

i. cheque or cash
ii. transferring to the local government or a public authority land in satisfaction of the cost contribution
iii. the provision of physical infrastructure
iv. some other method acceptable to the local government; or
v. Any combination of these methods

5.3.14.2 The owner, with the agreement of the local government, may pay the owner's cost contribution in a lump sum, by instalment or in such other manner acceptable to the local government.

5.3.14.3 Payment by an owner of the cost contribution, including a cost contribution based upon estimated costs in a manner acceptable to the local government constitutes full and final discharge of the owner's liability under the development contribution plan and the local government shall provide certification in writing to the owner of such discharge if requested by the owner.

Review

The plan will be reviewed five years from the date of gazettal of the local planning scheme or amendment to the local planning scheme to incorporate the plan, or earlier should the local government consider it appropriate, having regard to the rate of development in the area and the degree of development potential still existing.

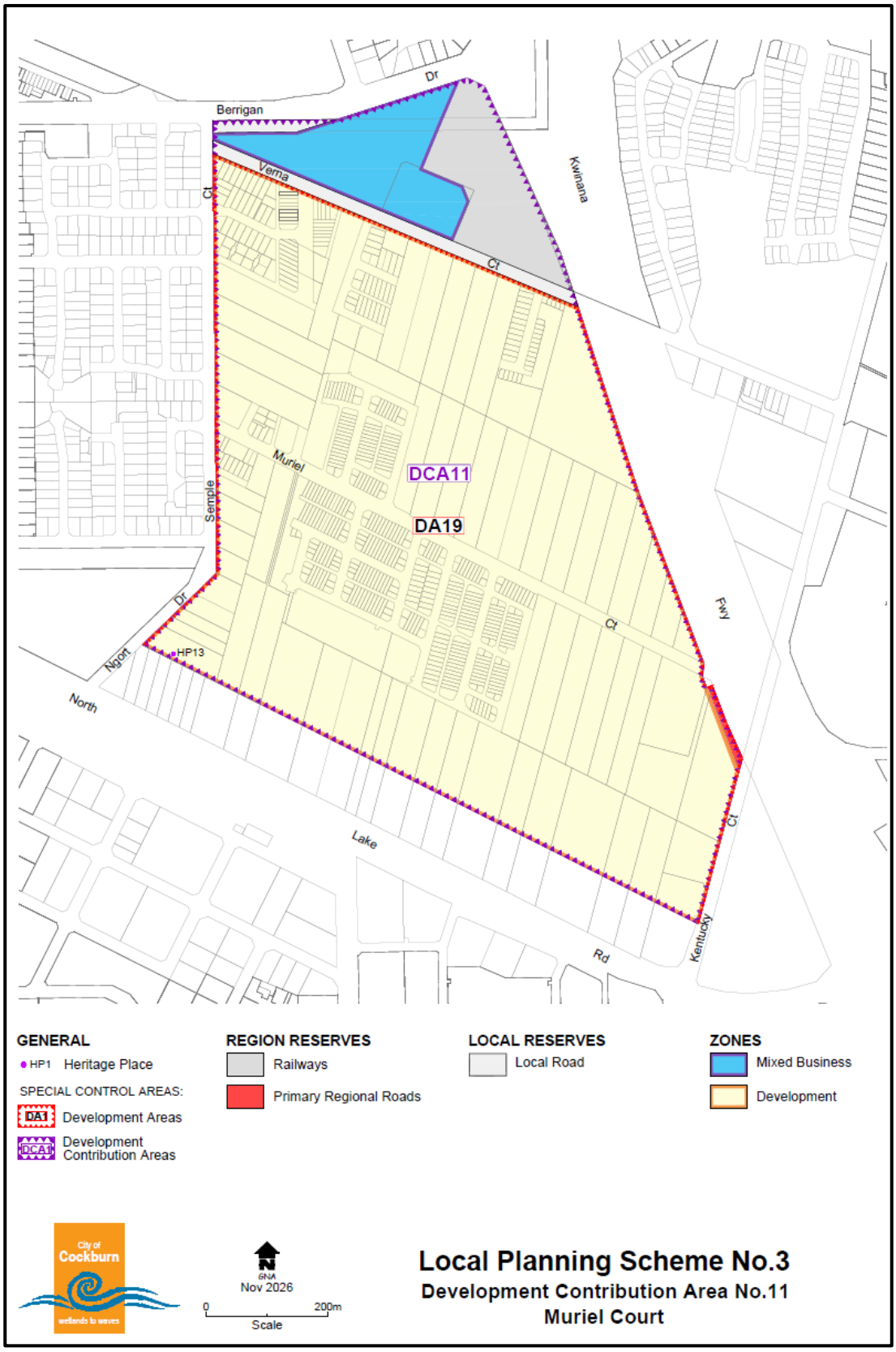
The estimated infrastructure costs as shown in the Cost Apportionment Schedule (CAS) will be reviewed at least annually to reflect changes in funding and revenue sources and indexed based on the Building Cost Index or other appropriate index as approved by the qualified person undertaking the certification of costs.

Annexes

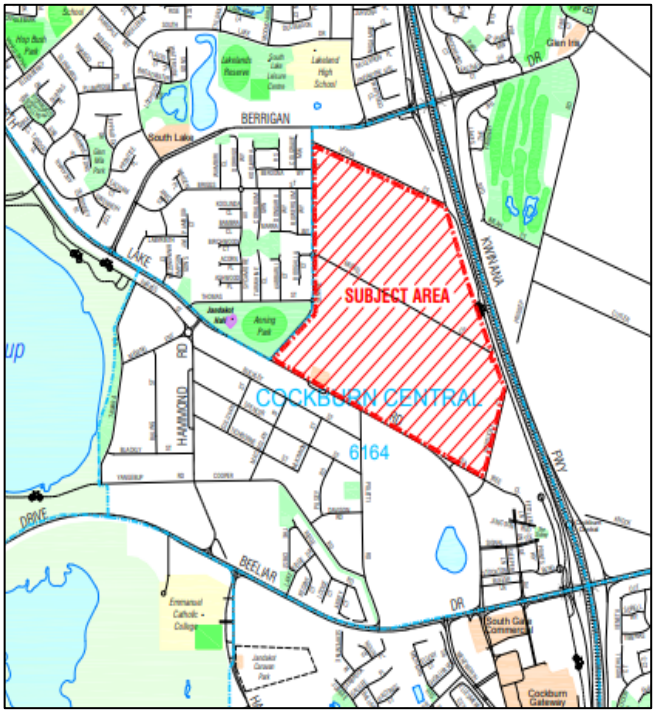
1. Maps
2. Cost Apportionment Schedule (CAS)
3. Schedule of Cost of Infrastructure
4. Capital Expenditure Plan (CEP)
5. Infrastructure Project Designs

Annex 1 – Maps

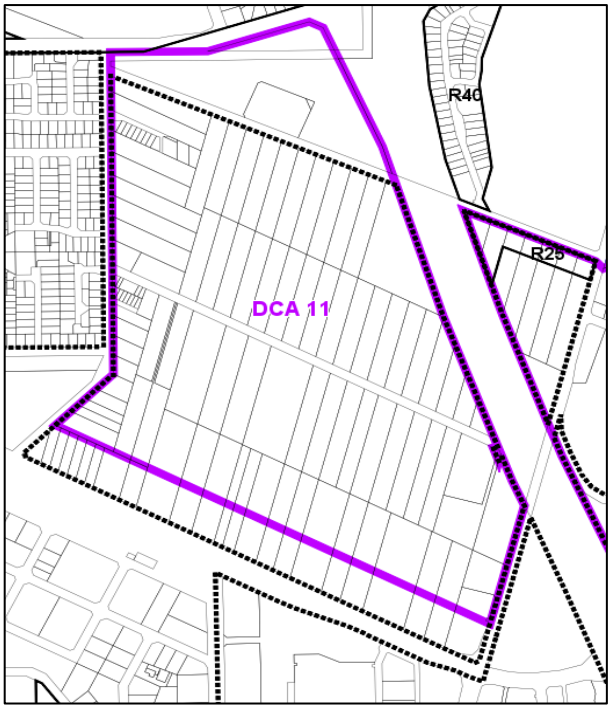
Scheme Map



Muriel Court Structure Plan Area



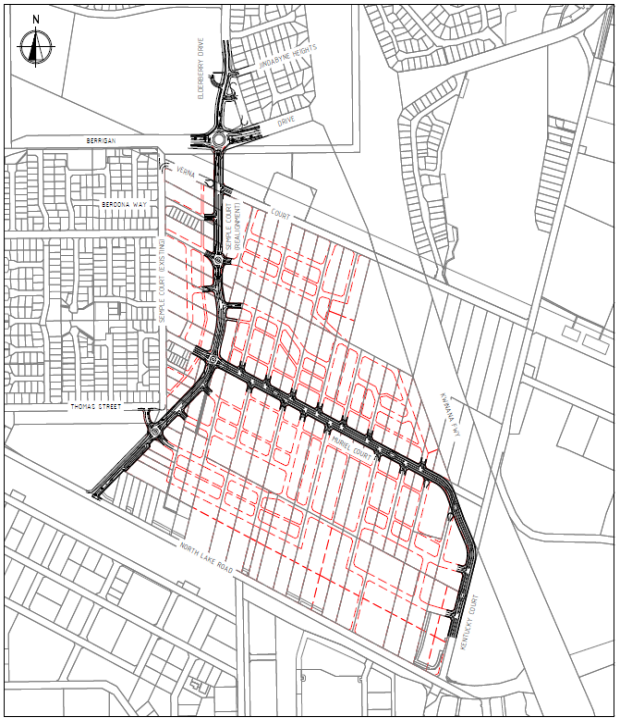
DCA11 boundary



Location of POS Subject to DCP11



DCP11 Roads - Ngort Dr and Muriel Ct



Annex 2 – Cost Apportionment Schedule (CAS)

DCA11 Summary Sheet

DCA11 Muriel Court - Cost Apportionment Schedule (CAS)

All owners of land within DCA 11 are required to make a proportional contribution to land and infrastructure works required as part of the development of the Muriel Court Development Contribution area. Specific details of the contributions are set out in Table 10 of TPS3 - DCA 11 Muriel Court.

All landowners within DCA 11 shall make a contribution to land and infrastructure works required as part of the development of the Muriel Court Development Contribution Area. With the exception of existing lots 3 and 21 Verna Court and lots 52 and 150 Semple Court, the contribution is to be calculated on the potential number of dwellings that can be constructed on each lot or lots and calculated in accordance with the following:

R20 Lots 450m^2
R25 Lots 350m^2
R40 Lots 220m^2
R60 Lots 166m^2
R80 Lots 125m^2
R160 Lots Calculated by dividing the lot area (m^2) by 62.5 to give the number of potential dwellings.

Description	Schedule No	Total Cost ($)	Lot 3 7.60%	Lot 21 *(Actual)* 1.50%	Lot 52 1.25%	Remaining lots
Upgrading North Lake Road (Kentucky to Semple)	As per Schedule 1	238,380	18,117	5,513	2,980	211,770
Widening and realignment of Semple Court (Berrigan to North Lake Road)	As per schedule 2	13,079,820	994,066	73,040	163,498	11,849,216
Modifications - existing Semple Court	As per Schedule 3	290,000	22,040	7,418	3,625	256,917
Realignment of Elderberry Drive (Berrigan Drive to Jindabyne Heights)	As per Schedule 4	2,762,385	209,941	17,357	34,530	2,500,557
Muriel Court upgrade and extension (realigned Semple Court to North Lake Road)	As per Schedule 5	8,341,880	633,983	39,168	104,274	7,564,456
Public Open Space provision and works	As per Schedule 6	22,925,969				22,925,969
Drainage and ground water control provision and works	As per Schedule 7	4,723,341	358,974	23,082	59,042	4,282,243
Professional services and administration costs	As per Schedule 8	1,933,980	146,983	163	24,175	1,762,660
Cost of Loans for Contribution Plan items	As per Schedule 9	2,599,975	197,598	39,000	32,500	2,330,877
Detailed Design and associated costs	As per Schedule 11	2,800,000	212,800	0	35,000	2,552,200
	Subtotals	59,695,730.59	2,794,501.89	204,741.02	459,622.02	56,236,865.68
	Less available funds	**6,006,825.90**		**2,426.64**		**6,004,399.27**
	Total Project Costs	**53,688,904.69**	**2,794,501.89**	**202,314.38**	**459,622.02**	**50,232,466.42**

	Potential yield (post review)	
Estimated dwellings	3453	2590
Lots developed	854	
Lots remaining	2599	1949
DCA costs per Du	$19,327.61	$25,770.15
Area of lots 52,3 &21 (ha)	7.7320	
DCA cost / ha for lots 52,3 &21	refer below	
Lot 3 - 7.6%	2,794,501.89	
Actual (6/11/17) - Lot 21 - 1.5%	202,314.38	
Lot 52 - 1.25%	459,622.02	

Note: We have a TPS provision for Muriel Court to insist on developers achieving 75% of this density (i.e. 2590 dwellings). This has been the basis we've used to divide up the DCA liability (because it's all we can guarantee).

Schedule 1 – North Lake Road

Schedule 1 - North Lake Road ***Ngort Drive to Kentucky Court***		
11.1 Pro rata contribution to the upgrading of North Lake Road between Kentucky Court and Semple Court including upgrading the existing carriageway, construction of the future carriageway, drainage, lighting, landscaping and service relocation where necessary.		
Description	**Actual Cost ($)**	**DCA11 Share (6.0%)**
Construction	3,604,500	216,270
Traffic Management Devices	368,500	0
Total	**3,973,000**	**238,380**

Schedule 2 – Ngort Drive Re-alignment

Schedule 2 - Ngort Drive Re-alignment

11.2.2 The cost of land and works for the widening and realignment of ***Semple Court between Verna Court and North Lake Road*** *as shown on the Muriel Court Structure Plan. The Cost of works is the cost over and above that of providing a normal subdivision road with drainage, lighthing, footpaths and parking embayments which will be a cost to the owners of the adjoining land.*

11.3.2 The cost of land and works for the realignment of ***Semple Court shown on the Muriel Court Structure Plan between Berrigan Drive and Verna Court****. Works are to include the cost of the carriageways, median landscaping, drainage, lighting and paths.*

11.4 Traffic management devices along realigned Semple Court and ***traffic lights or a roundabout at the intersection of Semple Court with Berrigan Drive and North Lake Road***

Construction

Description	**Ultimate Standard Road Cost ($)**	**Standard Road Cost ($)**	**Above Standard Road Cost DCA 11 ($)**
11.2.2 & 11.6.2 Construction: Semple (Verna -North Lake Rd)	9,355,000	6,975,000	2,380,000
11.3.2 Construction: Semple (Berrigan-Verna)	4,125,000		4,125,000
11.4 Traffic lights at intersection of North Lake Rd & Roundabout at Berrigan Drive	4,525,000		4,525,000
Subtotal	**$18,005,000**	**$6,975,000**	**11,030,000**

Land

Description	**Land Area m²**	**Total Cost ($)**
11.3.2 Berrigan to Verna (total cost) (WAPC)	1,961	490,250
11.2.2 Verna to Muriel (cost over and above 15m wide)	3,709	903,090
11.2.2 Muriel to Thomas (cost over and above 15m wide)	1,899	656,480
Subtotal		**$2,049,820**

Total Project Cost $13,079,820

Schedule 3 – Existing Semple Court

Schedule 3 - Existing Semple Court	
11.5.2 Modifications to existing Semple Court including closures and pavement modifications shown on the Muriel Court Structure Plan.	
Modification to existing Semple Court inc closures	290,000
Total Project Cost	$290,000

Schedule 4 – Elderberry Drive – Re-alignment

Schedule 4 - Elderberry Drive Re-alignment	
11.7.2 Cost of land and works for the realignment of Elderberry Drive between Berrigan Drive and Jindabyne Heights.	
Construction	2,185,000
School Site Land (3121 m2 @ 185/m^2) *Lot 100 (106) South Lake Drive South Lake*	577,385
Total Project Cost	**$2,762,385**

Schedule 5 – Muriel Court / Kentucky Court

Schedule 5 - Muriel Court / Kentucky Court
11.8.2 The cost of land and works for the widening of Muriel Court and Kentucky Court between realigned Semple Court and North Lake Road as shown on the Muriel Court Structure Plan. The cost of works is the cost over and above that of providing a normal subdivision road with drainage, lighting, footpaths and parking embayments which will be a cost to the owners of the adjoining land.
11.9 Traffic management devices along Muriel Court and traffic lights at the intersection of Kentucky Court and North Lake Road.

Construction	DCA 11 *(over and above cost)*
11.8.2 Muriel Court & Kentucky Court	5,615,000
11.9 Traffic Management Devices	1,625,000
Subtotal	**$7,240,000**

Land		
Description	**Land Area m^2**	**Cost ($)**
11.8.2 Muriel Court *between Semple Court as realigned to Kentucky*	3,616	937,160
11.8.2 Kentucky Court *(additional area)*	743	164,720
	Subtotal	**$1,101,880**

Total Project Cost	**$8,341,880**

Schedule 6 – Public Open Space (POS)

Schedule 6 - Public Open Space
11.10.2 Provision of land for public open space area shown on the Muriel Court Structure Plan and the cost of landscaping and bushland/wetland restoration.

Construction	Total Cost ($)	Estimate cost to complete ($)	Actual Cost ($)	Comments
Northern Parkland 3.4353ha (34,353m^2)	2,755,798			
South West Parkland 1.6584 ha (16,584m^2) *remaining portion 0.5440 ha (5,440m^2)*	1,682,651	436,397	1,246,254	25/03/2019 (Stage 1 - DP415251) (1.1144)
South East Parkland 1.3384ha (13,384m^2)	1,073,664			
South East Parkland Drainage basin 0.9550ha (9,550m^2)	766,101			
Subtotal	**$6,278,214**			

POS Land	Total Cost ($)
North West Parkland	8,052,410
South West Parkland	3,223,265
South East Parkland	5,372,080
Subtotal	**$16,647,755**

Total Project Cost	**$22,925,969**

Schedule 7 - Drainage

Schedule 7 - Drainage	
11.11.2 Land and works for internal and off site groundwater control and drainage infrastructure including detention basins, gross pollutant traps, nutrient stripping and landscaping.	
External	
Area 3 Infiltration basin - retained wetland area 8,622m^2	263,747
Area 3 infiltration basin 1 - 18,971m^2	1,521,854
Area 3 Groundwater control basin 6,224m^2	301,677
11.13.1 Infrastucture components relating drainage: outflow pipe network	1,975,000
Subtotal	**$4,062,278**
Internal	
Groundwater collection and compensation basins (6,000m^2)	
Basin Discharge pipework (1850m)	
Subsoil drainage (2050m)	
Value of area in excess of 1:1 drainage credit in POS assess	
Subtotal	
Studies	
6 months ground water monitoring - Cardno	22,669
12 months Ongoing monitoring and reporting - Cardno	27,140
ENV Local Water Management Strategy incl survey	47,960
Landscape input to LWMS by MNLA	9,249
Subsoil Drainage Concept Design for SE POS	9,500
Subtotal	**$116,518**
Further Studies	
Detailed drainage design	$544,545
Total Drainage Cost	**$4,723,341**

Schedule 8 – Administrative Costs

Schedule 8 - Fees	
Preliminary professional services including drainage, services, geotechnical, site contamination, traffic and planning.	
Further detailed studies and design including design guidelines and engineering design of drainage and major roads.	
Costs to administer cost sharing arrangements of the DCA including detailed engineering design of drainage and roads the subject of the DCA provisions, cost estimates and schedules, valuations, annual reviews of land and works, audits and administrative costs.	
Preliminary Structure Plan studies prefunded by owners	132,226
Additional traffic work Uloth & Assoc (COC)	3,100
Additional work Koltasz Smith	32,042
Additional drainage work Cardno/David Wills & Assoc	5,202
Planning advice Malcolm McKay	1,920
Semple Court Mapping, survey and base information Whelans	22,200
Semple Court prelim design, quantities and costs Wood & Grieve	36,200
Drainage preliminary design	20,000
Initial valuation advise	10,000
Design Guidelines by Hassell	27,849
Annual valuation reviews 15 years @ $4000	60,000
Initial engineering costings	15,000
Annual engineering reviews 15 years @ $15000	225,000
Annual DCA Administration (COC) 15 years @ $8000	120,000
Annual Landscaping review 15 years @ $1600	24,000
Annual Audit fees 15 years @ $1000	15,000
Valuations 09/10	733
Engineering Review 09/10 (Wood & Grieves)	14,784
landscaping Review 09/10 (MNLA)	1,577
Engineering Review 06/12 (Wood & Grieves)	15,543
landscaping Review 06/12(Emerge)	550
Valuations 06/12 (McGees)	733
Annual administration costs	8,000
Valuations 6/13 (McGees)	275
Landscaping review 6/13 (Emerge)	611
Engineering review 6/13 (Wood & Grieves)	9,460
Administration (2013)	5,640
Valuations 6/14 (McGees)	1,755
Landscaping review 6/14 (Emerge)	555
Engineering review 6/14 (Wood & Grieves)	8,600
Administration (2014)	7,614
Auditing (2014)	220
Valuations 6/15 (McGees)	2,475
Landscaping review 6/15 (Emerge)	985
Administration (2015)	5,678
Auditing (2015)	207
Valuations 6/16 (McGees)	1,568

Landscaping review 6/16 (Emerge)	675
Administration (2016)	8,392
Auditing (2016)	216
Engineering review 6/17 (Wood & Grieve)	5,500
Valuations 6/17 (McGees)	1,399
Landscaping review 6/17 (Emerge)	675
Administration (2017)	8,478
Auditing (2017)	375
POS Valuations 8/17	4,400
Engineering design costs	775,450
Land & POS Valuations (McGees) 2018	6,050.00
Engineering review including concept designs (2018)	62,150.00
Landscaping (2018)	3,162.00
Administration (2018)	8,646.60
Auditing (2018)	398.18
Audit (2019)	403.64
Administration (2019)	8,646.60
Professional Costs (2019)	8,125.00
Annual Landscaping review 15 years @ $1565	14,085.00
Audit (2020)	407.28
Administration (2020)	8,872.57
Professional Costs (2020)	8,695.00
Annual Landscaping review 7 years @ $1659 per year	9,954
Audit (2021)	383.63
Administration (2021)	8,873
Professional Costs (2021)	8,535
Annual Landscaping review 6 years @ $1782 per year	10,692
Audit (2022)	400
Administration (2022)	2,000
Professional Costs (2022)	13,525
Annual Landscaping review 5 years @ $1869 per year	7,477
Audit (2023)	425
Administration (2023)	17,418
Professional Costs (2023)	24,750
Annual Landscaping review 4 years @ $1960.92 per year	5,883
Audit (2024)	
Administration (2024)	11,200
Professional Costs (2024)	12,275
Annual Landscaping review 3 years @ $2013.86 per year	4,028
Valuation Service Burgess Rawson - Lot 100 Verna Court	4,000
Audit (2024)	475
Administration (2025)	8,000
Professional Costs (2025)	9,150
Annual Landscaping review 3 years @ $2033.47 per year	2,033
Total Cost	**1,933,980**

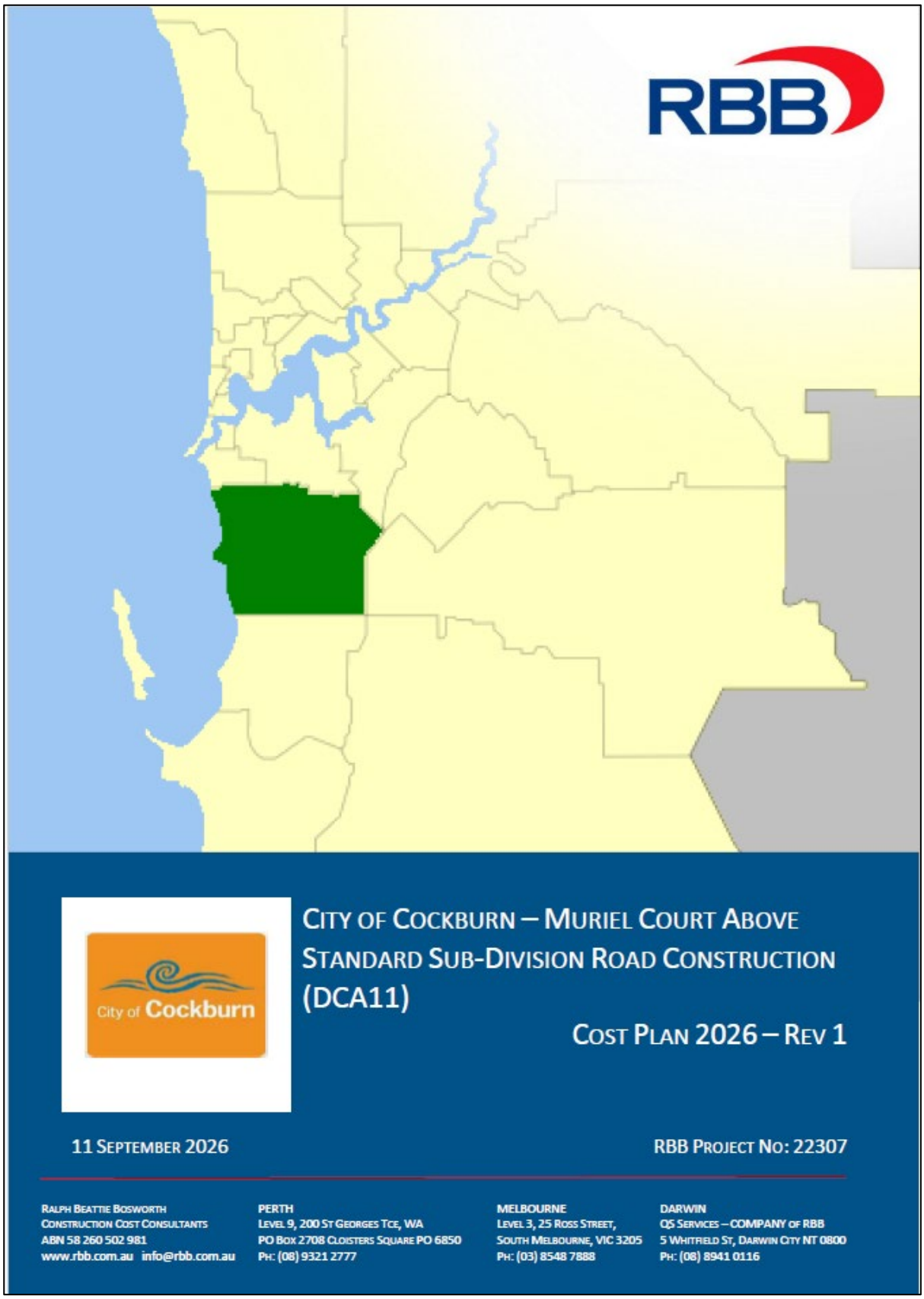
Schedule 10 – Contribution Register

Schedule 10 - Contribution Register						
Address	**Date**	**Lots**	**Assessed DCA Contribution ($)**	**Value Works-in- Kind ($)**	**Less: Land Credits - POS/Roads ($)**	**Total Contribution ($)**
130 (Lt 42) Semple Court Cockburn Central - Stage 1	Jun-14	11	158,242.88			158,242.88
36 (Lot 21) Verna Court Cockburn Central	Oct 17 & Nov 17		202 314.38			202,314.38
Lot 200 (1) Muriel Court Cockburn Central	Nov-17	15	164,077.95			164,077.95
Lot 2 (36) Muriel Court Cockburn Central - Stage 1 (DP415251)	Mar-19	0	0.00		32,490.00	-32,490.00
Lot 7 (52) Muriel Court Cockburn Central - Stage 1 (DP415251)	Mar-19	11	125,425.41		754,710.00	-629,284.59
Lot 30 (70) Muriel Court Cockburn Central -Stage 1 (DP415251)	Mar-19	17	193,839.27		604,100.00	-797,939.27
Lot 31 (80) Muriel Court Cockburn Central -Stage 1 (DP415251)	Mar-19	17	193,839.17		606,725.00	-412,885.83
Lot 50 (41) Muriel Court Cockburn Central -Stage 1 (DP415251)	Mar-19	0	0.00		11,780.00	-11,780.00
Lot 51 (51) Muriel Court Cockburn Central -Stage 1 (DP415251)	Mar-19	0	0.00		12,730.00	-12,730.00
Lot 52 (61) Muriel Court Cockburn Central -Stage 1 (DP415251)	Mar-19	0	0.00		13,300.00	-13,300.00
Mojo Stage 1 Works-in-Kind				2,210,950.09		-2,210,950.09
Lot 43 (136) Semple Court Cockburn Central Stage 1	Jul-19	18	205,241.58		60,800.00	144,441.58
Lot 9002 Colt Entrance & 9003 Paddock - Mojo Stage 2	Nov-19	38	433,287.18			433,287.18
Interest 2018/19						**5,531.76**
Lot 9001 Briggs Street Cockburn Central Stage 1 (DP414585)	Jul-20	12	136,827.72		315,970.00	-179,142.28
Lot 9001 Briggs Street Cockburn Central Stage 2	Sep-20	5	59,703.35			59,703.35
Lot 9001 Muriel Court Cockburn Central Stage 3A (DP419375)	Sep-20	45	537,330.15			537,330.15
Lot 9001 Muriel Court Cockburn Central Stage 3B (DP419376)	Sep-20	32	382,101.44			382,101.44
Lot 9005 Muriel Court Cockburn Central Stage 4 (DP405424)	Apr-21	27	351,169.29			351,169.29
Lot 9006 Muriel Court Cockburn Central Stage 4 (DP405424)	Apr-21	27	351,169.29			351,169.29
Lot 151 (23) Muriel Court Cockburn Central Stage 1 (DP420177)	Apr-21	8	104,050.16		52,000.00	52,050.16
Interest 2019/20						**3,699.87**
Interest 2020/21						**640.11**
Lot 49 (31) Muriel Court Cockburn Central Mojo Stage 5 (DP423059)	Nov-22	5	80,924.65		529,360.00	-448,435.35
Lot 9012 (50) Mojo Stage 5 (DP423059)	Nov-22	29	469,362.97			469,362.97
Lot 9013 & 9014 Mojo Stage 5 (DP423059)	Nov-22	10	161,849.30		1,186,900.00	-1,025,050.70
Mojo Stage 5 Works in Kind				81,565.33		-81,565.33
Interest 2021/22						**161.43**
Interest 2022/23						**539.35**
Lot 31 (102) and Lot 30 (108) Verna Court Stage 1 (DP427793)	Jun-25	64	1,325,096.32			**1,325,096.32**
Interest 2023/24						**728.48**
Lot 40 (2) Verna Court DP431097	Sep-25	29	600,434.27		121,500.00	478,934.27
Lot 41 (126) Semple Court DP431097	Sep-25	22	455,501.86		90,000.00	365,501.86
Lot 9007 Muriel Court - Mojo Stage 6 (DP430473)	Oct-25	18	372,683.34			372,683.34
Lot 1 (30) Muriel Court - Mojo Stage 7 (DP432845)	Oct-25	22	455,501.86			455,501.86
Lot 2 (36) Muriel Court - Mojo	Oct-25	12	248,455.56			248,455.56
Lot 14 (184) Semple Court - Mojo	Oct-25	10	207,046.30			207,046.30
Lot 334 (32) Muriel Court - Mojo	Oct-25	32	662,548.16			662,548.16
Lot 31 (102) Verna Court DP427793	Nov-25	16	351,668.48			351,668.48
Lot 30 (108) Verna Court DP427793	Nov-25	23	505,523.44			505,523.44
Lot 9 (110) Muriel Court DP429208	Nov-25	83	1,824,280.24	815,037.22	877,000.00	132,243.02
Lot 10 (122) Muriel Court DP429208	Nov-25	38	835,212.64		17,500.00	817,712.64
Lot 32 (100) Verna Court	Mar-26	25	549,482.00			549,482.00
Lot 11 (132) Muriel Court DP431397	Apr-26	50	1,098,964.00		16,000.00	1,082,964.00
Lot 12 (148) Muriel Court DP431397	Apr-26	59	1,296,777.52		21,750.00	1,275,027.52
Lot 37 (34) Verna Court DP432270	Apr-26	24	527,502.72		427,250.00	100,252.72
Interest 2024/25						-199.30
Totals		**854**	**15,266,877.59**	**3,107,552.64**	**5,751,865.00**	**$6,391,440.37**

Schedule 11 – Detailed Desgin and Associated Costs

Schedule 11 – Detailed Design and Associated Costs	
Detailed design Major roads including Contingencies, Professional fees and Escalation	$2,800,000
Subtotal	**$2,800,000**

Annex 3 – Cost Schedules



City of Cockburn DCAs

DCA 11 - Above Standard Road - 2026 Rev 1

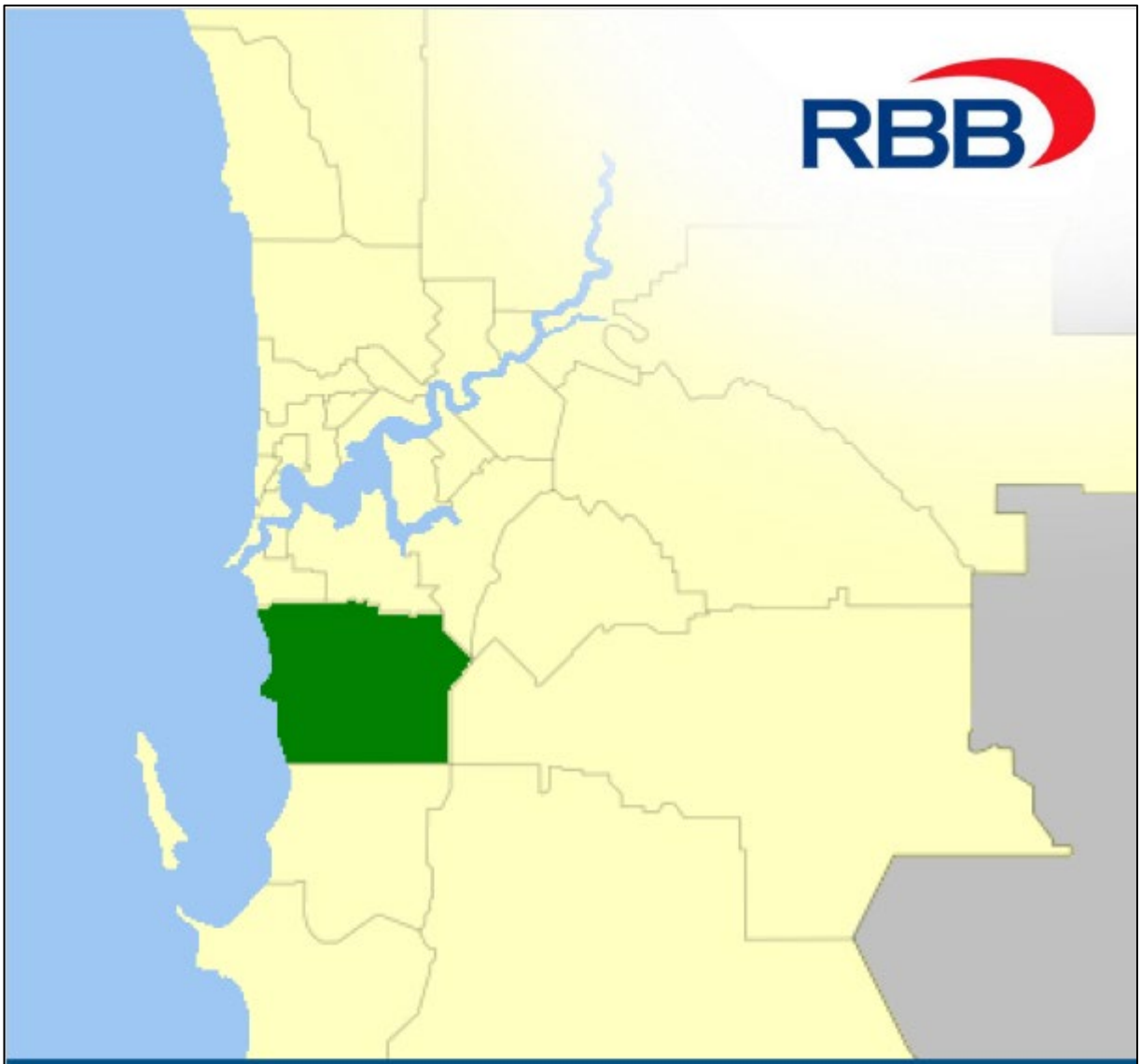
SUMMARY

RBB Quantity Surveyors & Cost Consultants

REF	DESCRIPTION			TOTAL $
1	MAIN SUMMARY - DCA 11			
2	ABOVE STANDARD SUB-DIVISION ROAD CONSTRUCTION TO ALL ROADS - 2026 - REV 1			
3	11.2.2 - NGORT DRIVE			9,355,000
4	11.3.2 - NGORT DRIVE			4,125,000
5	MODIFICATIONS TO EXISTING NGORT DRIVE			290,000
6	11.4 - TRAFFIC MANAGEMENT TO NGORT DRIVE			4,525,000
7	11.7.2 - ELDERBERRY DRIVE			2,185,000
8	11.8.2 - MURIEL COURT & KENTUCKY COURT			12,705,000
9	11.9 - TRAFFIC MANAGEMENT TO MURIEL COURT			1,625,000
10	11.13.1 - STORMWATER DRAINAGE			1,975,000
11	**SUBTOTAL**			**36,785,000**
12	Design Contingency	2.5	%	920,000
13	Construction Contingency	5	%	1,890,000
14	Allowance for Contamination and Land Remediation			Excluded
15	Headworks and Statutory Charges			Excluded
16	Building Act Compliance	0.5	%	200,000
17	Land Acquisition including Demolition & Compensation			Excluded
18	Other Client Costs			Excluded
19	Commissioning, Relocation Costs and Disbursements			Excluded
20	Professional Fees	10	%	3,960,000
21	**GROSS PROJECT COST (At current prices)**			**43,755,000**
22	Escalation to Contract Award (Allowance to September 2027)			2,625,000
23	**TOTAL PROJECT COST (Ex GST)**			**46,380,000**

24	Notes & Exclusions
25	Costs for major utility infrastructure upgrades are excluded
26	This estimate has been produced using the following documentation:
27	City of Cockburn RFQ Muriel Court DCA 11 Construction Cost Estimates Update 2026-2027
28	BG & E drawings
29	C-0001_A - Locality Plan & Drawing Index
30	C-0101_A - Plan & Profile Semple Court Chain 0 To Chain 600
31	C-0102_A - Plan & Profile Semple Court Chain 600 To Chain 1200
32	C-0103_A - Plan & Profile Semple Court Chain 1200 To Chain 1352.757

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CITY OF COCKBURN – MURIEL COURT STANDARD SUB-DIVISION ROAD CONSTRUCTION (DCA11) COST PLAN 2026

09 SEPTEMBER 2026

RBB PROJECT NO: 23220

RALPH BEATTIE BOSWORTH
CONSTRUCTION COST CONSULTANTS
ABN 58 260 502 981
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PH: (03) 8548 7888

DARWIN
QS SERVICES – COMPANY OF RBB
5 WHITFIELD ST, DARWIN CITY NT 0800
PH: (08) 8941 0116

City of Cockburn DCAs

DCA 11 - Standard Sub-Division Road - 2026

SUMMARY

RBB Quantity Surveyors & Cost Consultants

REF	DESCRIPTION			TOTAL $
1	MAIN SUMMARY - DCA 11			
2	STANDARD SUB-DIVISION ROAD CONSTRUCTION - 2026			
3	11.2.2 - NGORT DRIVE			6,975,000
4	11.3.2 - NGORT DRIVE			2,115,000
5	MODIFICATIONS TO EXISTING NGORT DRIVE			290,000
6	11.4 - TRAFFIC MANAGEMENT TO NGORT DRIVE			3,820,000
7	11.7.2 - ELDERBERRY DRIVE			1,925,000
8	11.8.2 - MURIEL COURT & KENTUCKY COURT			7,090,000
9	11.9 - TRAFFIC MANAGEMENT TO MURIEL COURT			1,625,000
10	11.13.1 - STORMWATER DRAINAGE			1,975,000
11	**SUBTOTAL**			**25,815,000**
12	Design Contingency	2.5	%	645,000
13	Construction Contingency	5	%	1,325,000
14	Allowance for Contamination and Land Remediation			Excluded
15	Headworks and Statutory Charges			Excluded
16	Building Act Compliance	0.5	%	140,000
17	Land Acquisition including Demolition & Compensation			Excluded
18	Other Client Costs			Excluded
19	Commissioning, Relocation Costs and Disbursements			Excluded
20	Professional Fees	10	%	2,780,000
21	**GROSS PROJECT COST (At current prices)**			**30,705,000**
22	Escalation to Contract Award (Allowance to September 2027)			1,845,000
23	**TOTAL PROJECT COST (Ex GST)**			**32,550,000**

24 Notes & Exclusions

25 Costs for major utility infrastructure upgrades are excluded

26 This estimate has been produced using the following documentation:

27 City of Cockburn RFQ Construction Cost Estimates (Roads) 2026/2027

28 Semple Court works as per City of Cockburn email dated 09 February 2023

29 BG & E drawings

30 C-0001_A - Locality Plan & Drawing Index

31 C-0104_A - Plan & Profile Muriel Court Chain 0 To Chain 600

32 C-0105_A - Plan & Profile Muriel Court Chain 600 To Chain 1220.714

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City of Cockburn
Developer Contribution Plans - Landscape Works
Sept 2025 Rev 16

Development Contribution Plan 11 : Muriel Court					
Item	**Contribution Item**				
11.10.2	Provision of land for public open space area shown on Muriel Court Structure Plan and the cost of the landscaping and bushland / wetland restoration	POS to retain existing veg where possible. POS costed to have standard landscape treatment including footpaths, turf some planting and trees, allowance for small play area and community facilities such as park benches, picnic shelter, rubbish bin etc	**POS 1:** 34,353 x $80.22 per m2	$	2,755,877.36
	Note: A portion of Southwest POS (11,144m2) has already been ceded and constructed as part of Mojo Estate Stage 1 development. The City only requires estimated costings for the remaining portion of 5,440m2. This refers to SW POS which is POS 2 noted below. Areas have been amended to suit.				
			POS 2 16584m2 x $80.22 per m2	$	1,496,386.93
			POS 3 (22,934m2 total) **Open Space** 13,384m2 x $80.22 per m2	$	1,073,695.53
			Drainage Basin (included above) 9,550m2 x $80.22 per m2	$	766,123.16
11.11.2	Land and works for internal and off site groundwater control and drainage infrastructure including detention basins, gross pollutant traps, nutrient stripping and landscaping	Drainage basin within Muriel Court Structure Plan area included above. Any items relating to drainage infrastructure such as pipework, bubble up pits, GPTs etc to be costed by engineers	**Offsite:** **Area 3 Infiltration Basin 1** 2,150m2+16821= 18,971 18,971 x $80.22 per m2	$	1,521,897.63
			Offsite: **Area 3 Infiltration Basin** Retained Wetland Area 8,622 x $30.59 per m2	$	263,759.91
			Offsite: **Area 3 Groundwater Control Basin** 6224 x $48.47 per m2	$	301,673.42
11.14	Cost to adminster cost sharing arrangements of the DCA including cost estimates and schedules, valuations, annual reviews of land and works, audits and administrative costs.	Cost annually every year for 15 years. Remaining time estimated for DCP = 1 years	$2033.47 per year (renewed annually)	$	2,033.47 for remaining 1 year

Annex 4 – Capital Expenditure Plan (CEP)

DCP Reserve Balance as of 30/08/2026: $6,006,825

Interest earned on DCP Reserve 2024/25: -$199.30

DCP 11 Muriel Court

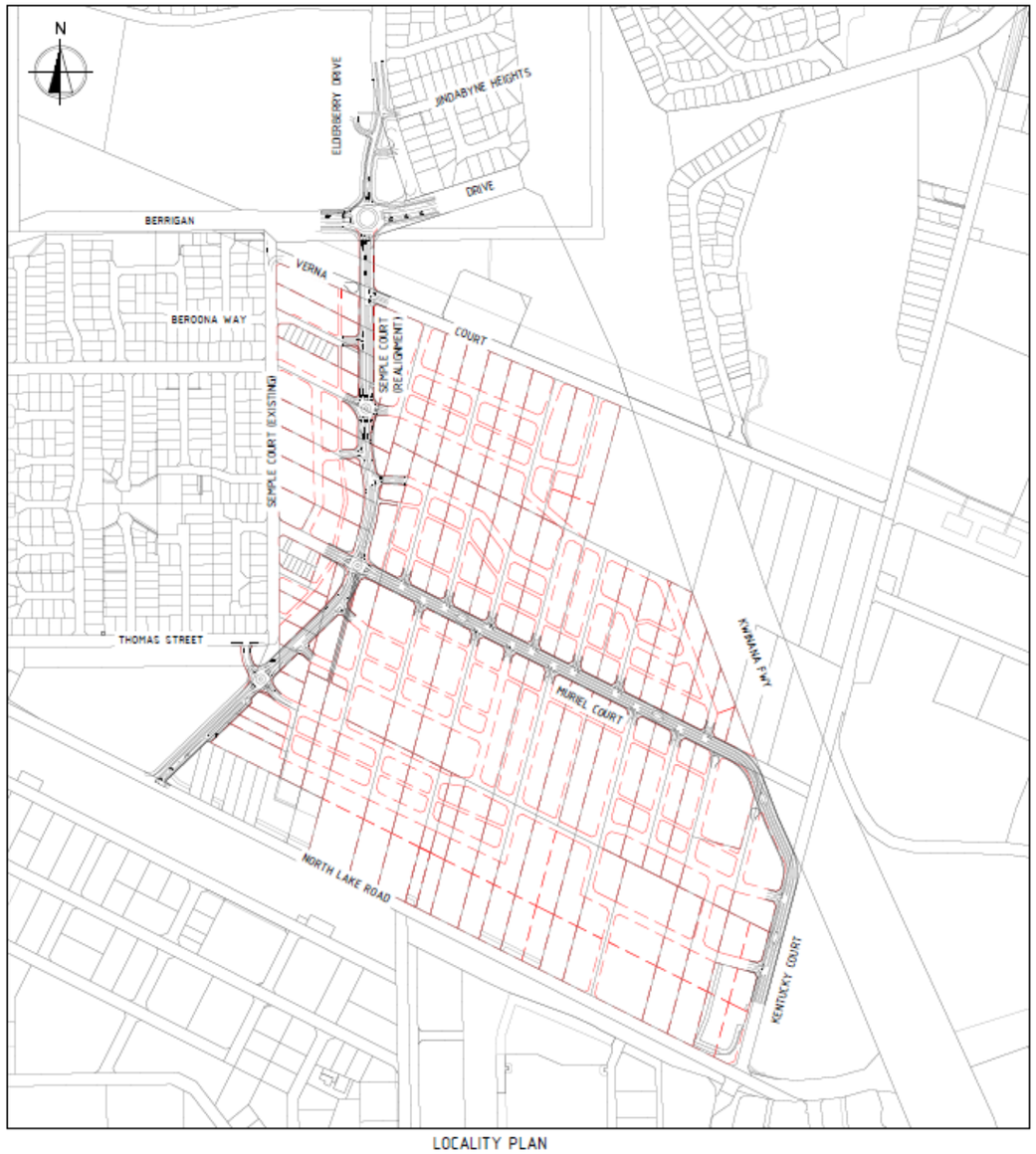
Infrastructure Item	Total Project Costs ($)	DCP 11 Funds Expended to Date ($)	Remaining DCP 11 Funding ($)	FY27 DCP 11 ($)	FY28 DCP 11 ($)	FY29 DCP 11 ($)	FY30 DCP 11 ($)	FY31 DCP 11 ($)	FY32 DCP 11 ($)	FY33 DCP 11 ($)
11.2.2 & 11.6.2 Ngort Drive Re-aligment between Berrigan Drive and North Lake Rd	13,079,820	971,860	12,107,960	490,250			4,125,000			7,492,710
11.52 Modification to existing Semple Court incl. closures and pavement modifications	290,000		290,000		290,000					
11.7.2 Elderberry Drive Re-aligment between Berrigan Dr and Jindabyne Heights	2,762,385		2,762,385	577,385	2,185,000					
11.8.2 & 11.9.2 Muriel Court and Kentucky Court include Traffic management devices	8,341,880	1,452,568	6,889,312							6,889,312
Public Open Space (POS)	22,925,969	6,434,989	16,490,980							16,490,980
11.11.2 & 11.13.11 Drainage and ground water control	4,723,341		4,723,341							4,723,341
Total	**52,123,395**	**8,859,417**	**43,263,978**	1,067,635	2,475,000	0	4,125,000	0	0	**35,596,343**

The timeframe outlined in this plan is indicative and may be subject to change. Delivery of the remaining infrastructure is dependent on future development and subdivision approvals, the cession of the remaining land required for the infrastructure under DCA11, and receipt of DCA 11 contributions from individual landowners. As the remaining land has yet to be secured, delivery may extend beyond FY2033, which marks the end of the current DCA 11 operation period. The operation period may be extended for further periods, with or without modification, through a subsequent Scheme Amendment.

Recurring Annual Payment Obligations (not included above):

- *Costs to administer cost-sharing arrangements.*
- *Valuations and professional fees for infrastructure cost estimates.*
- *Annual audit and administration costs.*
- *Loans raised by Local Government*

Annex 5 – Infrastructure Project Designs



LOCALITY PLAN
1:4000

BERRIGAN DRIVE - NORTH LAKE ROAD
ROAD COSTING

DRG No.	DRAWING TITLE
C-0001	LOCALITY PLAN AND DRAWING INDEX
C-0101	PLAN AND PROFILE SEMPLE COURT CHA 0 TO CHA 600
C-0102	PLAN AND PROFILE SEMPLE COURT CHA 600 TO CHA 1200
C-0103	PLAN AND PROFILE SEMPLE COURT CHA 1200 TO CHA 1352.757
C-0104	PLAN AND PROFILE MURIEL COURT CHA 0 TO CHA 600
C-0105	PLAN AND PROFILE MURIEL COURT CHA 600 TO CHA 1220.714
C-0301	TYPICAL CROSS SECTIONS
C-0501	DRAINAGE PLAN SEMPLE COURT CHA 0 TO CHA 220
C-0502	DRAINAGE PLAN SEMPLE COURT CHA 220 TO CHA 540
C-0503	DRAINAGE PLAN SEMPLE COURT CHA 540 TO CHA 820
C-0504	DRAINAGE PLAN SEMPLE COURT CHA 820 TO CHA 1130
C-0505	DRAINAGE PLAN SEMPLE COURT CHA 1130 TO CHA 1353
C-0506	DRAINAGE PLAN MURIEL COURT CHA 0 TO CHA 300
C-0507	DRAINAGE PLAN MURIEL COURT CHA 300 TO CHA 600
C-0508	DRAINAGE PLAN MURIEL COURT CHA 600 TO CHA 900
C-0509	DRAINAGE PLAN MURIEL COURT CHA 900 TO CHA 1220.714
C-0601	SERVICES PLAN SEMPLE COURT CHA 0 TO CHA 220
C-0602	SERVICES PLAN SEMPLE COURT CHA 220 TO CHA 540
C-0603	SERVICES PLAN SEMPLE COURT CHA 540 TO CHA 820
C-0604	SERVICES PLAN SEMPLE COURT CHA 820 TO CHA 1130
C-0605	SERVICES PLAN SEMPLE COURT CHA 1130 TO CHA 1353
C-0606	SERVICES PLAN MURIEL COURT CHA 0 TO CHA 300
C-0607	SERVICES PLAN MURIEL COURT CHA 300 TO CHA 600
C-0608	SERVICES PLAN MURIEL COURT CHA 600 TO CHA 900
C-0609	SERVICES PLAN MURIEL COURT CHA 900 TO CHA 1220.714
C-0621	LIGHTING PLAN SEMPLE COURT CHA 0 TO CHA 220
C-0622	LIGHTING PLAN SEMPLE COURT CHA 220 TO CHA 540
C-0623	LIGHTING PLAN SEMPLE COURT CHA 540 TO CHA 820
C-0624	LIGHTING PLAN SEMPLE COURT CHA 820 TO CHA 1130
C-0625	LIGHTING PLAN SEMPLE COURT CHA 1130 TO CHA 1353
C-0626	LIGHTING PLAN MURIEL COURT CHA 0 TO CHA 300
C-0627	LIGHTING PLAN MURIEL COURT CHA 300 TO CHA 600
C-0628	LIGHTING PLAN MURIEL COURT CHA 600 TO CHA 900
C-0629	LIGHTING PLAN MURIEL COURT CHA 900 TO CHA 1220.714

SCALE 1:2000 AT A1 SIZE

REV	DATE	DESCRIPTION	DRAWN	REV	DATE	DESCRIPTION	RVD
A	15/10/19	ISSUED TO CITY OF COCKBURN	CB/AM				

Perth Office—
484 Murray St, Perth WA 6000
P/+61 8 6364 3300
E/info@bgeeng.com
bgeeng.com—

BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

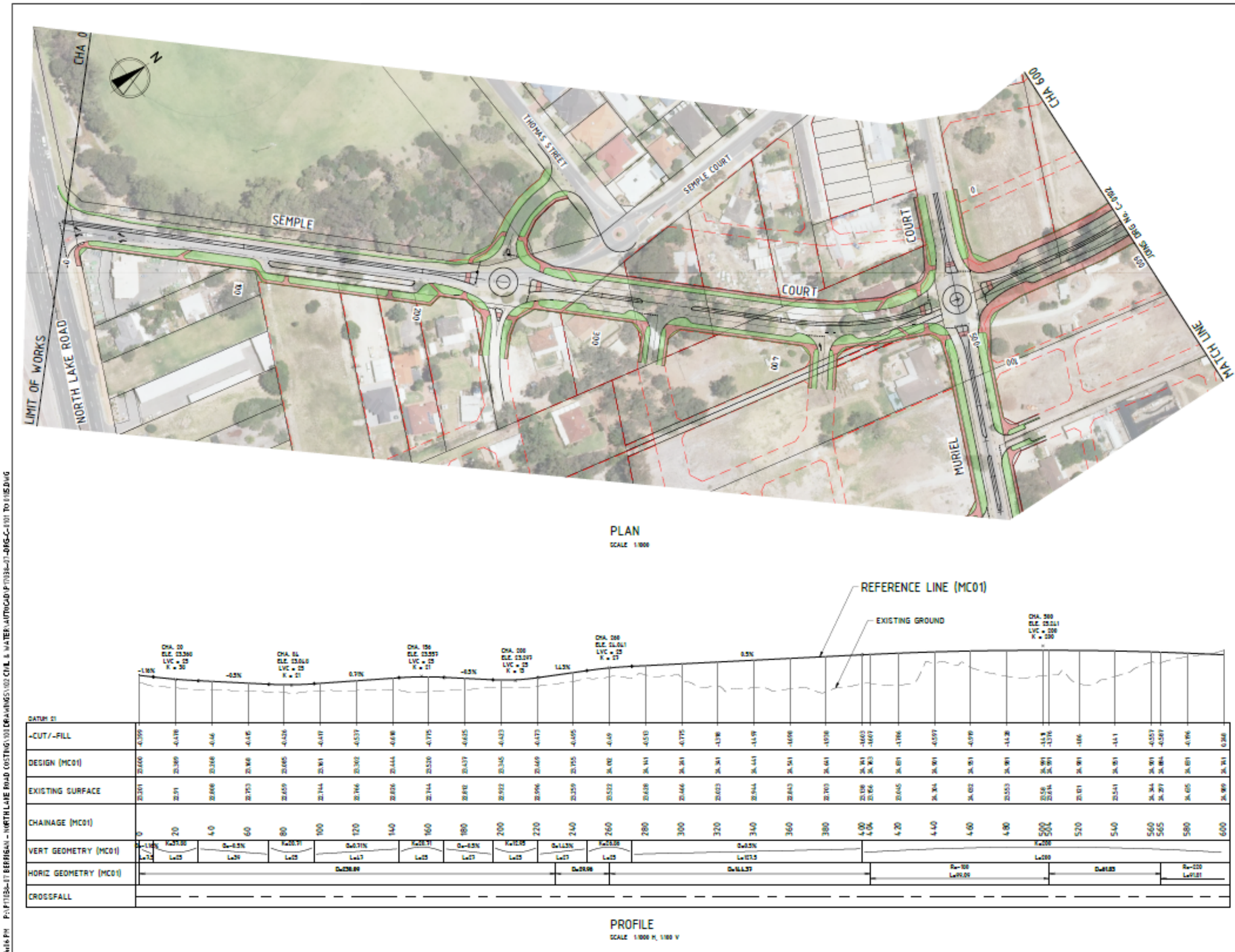
DRAWN	APPROVED	PROJECT	APPROVED
DP	DW	CB/AM	CB

SCALE 1:4000 AT A1 SIZE

LOCALITY PLAN AND DRAWING INDEX

PROJECT No. P17038-07 | DRAWING No. C-0001 | REV A

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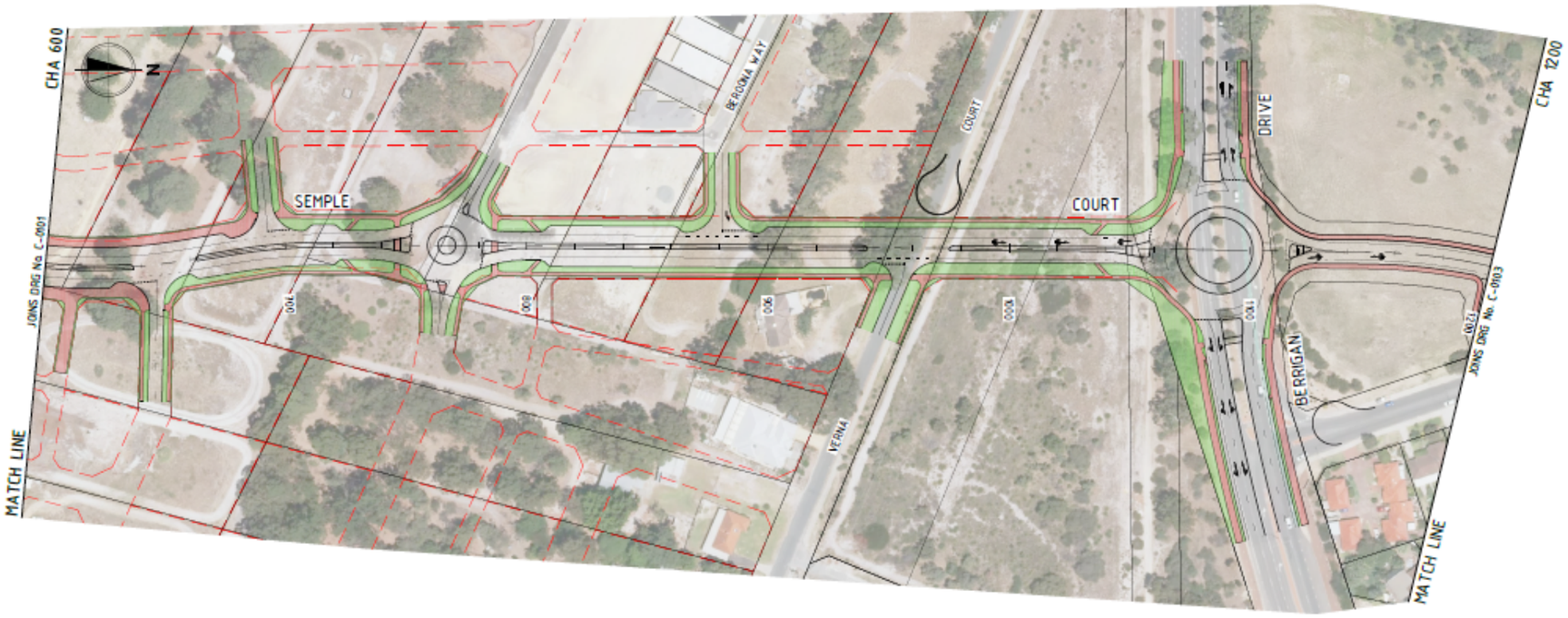

CHA 0
CHA 600
SEMPLE
SEMPLE COURT
THOMAS STREET
COURT
COURT
LIMIT OF WORKS
NORTH LAKE ROAD
MURIEL
HATCH LANE
JONES DRG No. C-1902
N
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
REFERENCE LINE
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY – FUTURE
KERBING
VERGE
VERGE AREA
PATH
PLAN
SCALE 1:1000
REFERENCE LINE (MC01)
EXISTING GROUND
DATUM 21
-CUT/-FILL
DESIGN (MC01)
EXISTING SURFACE
CHAINAGE (MC01)
VERT GEOMETRY (MC01)
HORIZ GEOMETRY (MC01)
CROSSFALL
PROFILE
SCALE 1:1000 H, 1:100 V
SCALE 1:1000 AT A1 SIZE
SCALE 1:1000 AT A3 SIZE
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494 Murray St, Perth WA 6000
P/+61 8 6364 3300
E/info@bgeeng.com
bgeeng.com—
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
JG
DW
CB/AM
CB
1:1000 H, 1:100 V
PLAN AND PROFILE
SEMPLE COURT
CHA 0 TO CHA 600
P17038-07
C-0101
A

NOTES

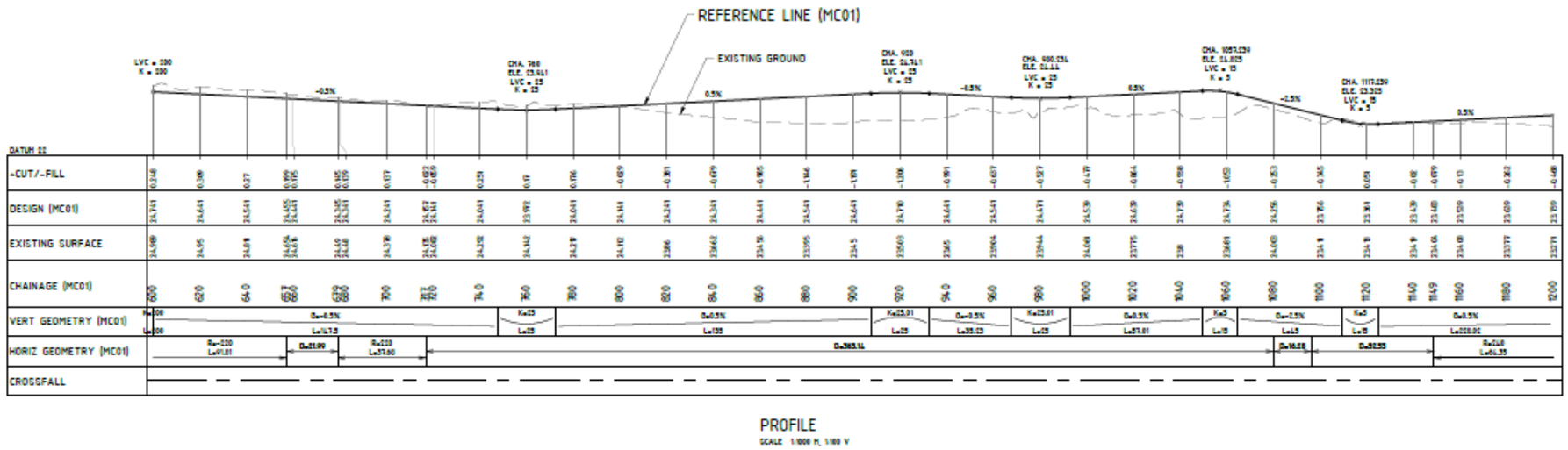
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND

- REFERENCE LINE
- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE
- KERBING
- VERGE
- VERGE AREA
- PATH



PLAN
SCALE 1:1000



PROFILE
SCALE 1:1000 H, 1:100 V

SCALE 1:500 AT A1 SIZE
SCALE 1:1000 AT A1 SIZE

REV	DATE	DESCRIPTION	DRAW
A	9/10/18	ISSUED TO CITY OF ESCRUM	DW

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DRAWN	DESIGNED	CHECKED	APPROVED
JC	DW	CB/AH	CB

1:1000 H, 1:100 V

PLAN AND PROFILE
SEMPLE COURT
CHA 600 TO CHA 1200

PROJECT No. P17038-07 | DRAWING No. C-0102 | REV. A

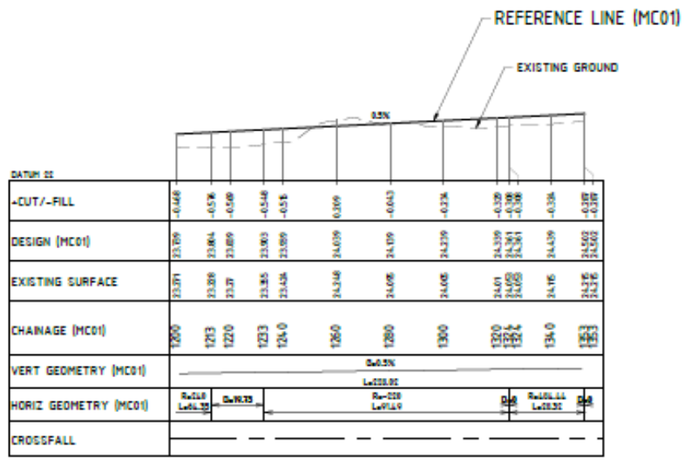
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PLAN
SCALE 1:1000

NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND
- REFERENCE LINE
- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE
- KERBING
- VERGE
- VERGE AREA
- PATH



PROFILE
SCALE 1:1000 H, 1:100 V

SCALE 1:100 AT A1 SIZE
SCALE 1:1000 AT A1 SIZE

REV	DATE	DESCRIPTION	DRAWN	CHKD	DATE	DESCRIPTION	APP
A	15/10/18	ISSUED TO CITY OF ESPERANCE	CB/AM				

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ROAD COSTING

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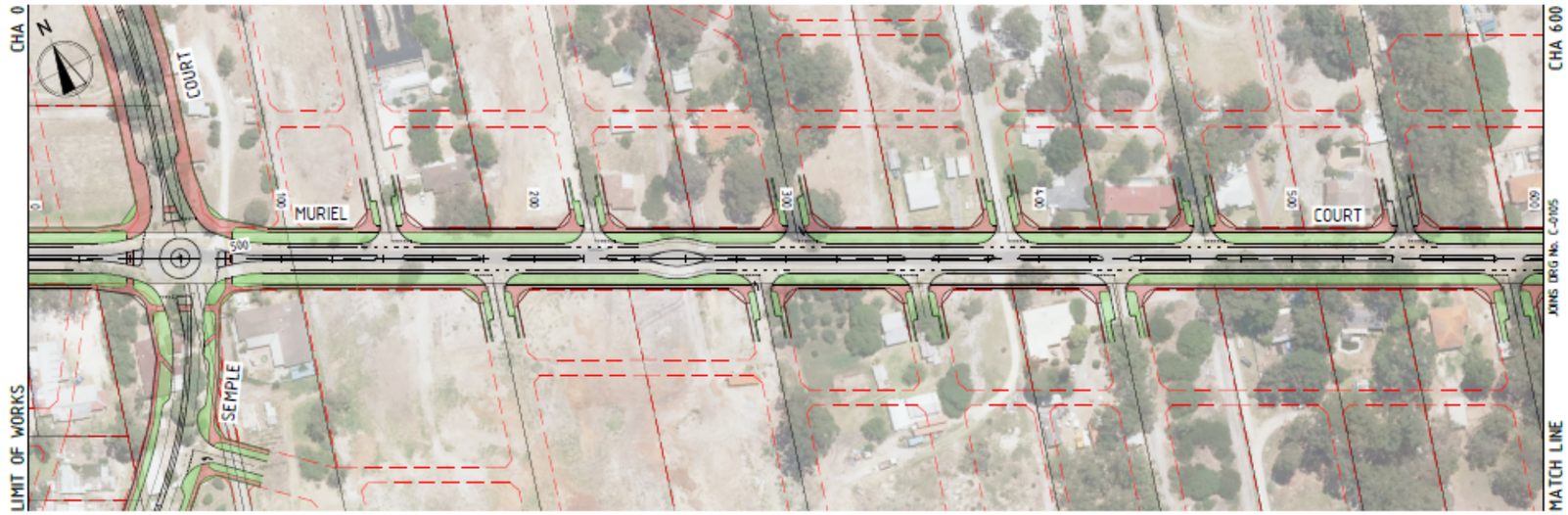
DRAWN	DESIGNED	CHECKED	APPROVED
JG	DW	CB/AM	CB

1:1000 H, 1:100 V

PLAN AND PROFILE
SEMPLE COURT
CHA 1200 TO CHA 1352.757

P17038-07 | C-0103 | A

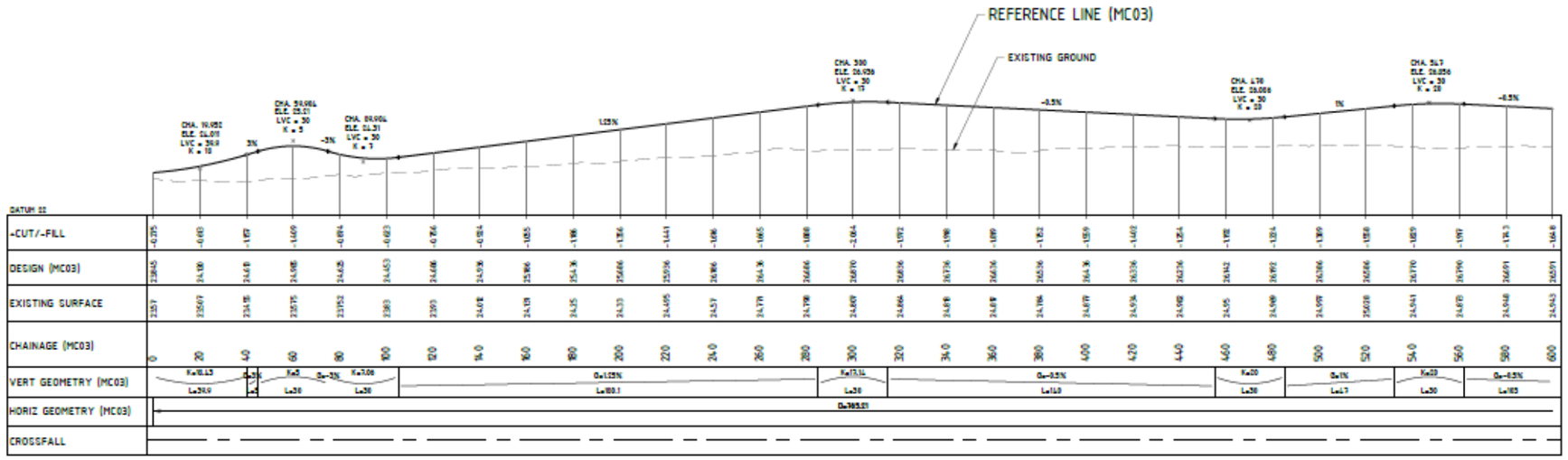
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PLAN
SCALE 1:1000

NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND
- REFERENCE LINE
- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY – FUTURE
- KERBING
- VERGE
- VERGE AREA
- PATH



PROFILE
SCALE 1:1000 H, 1:100 V

SCALE 1:100 AT A1 SIZE
SCALE 1:1000 AT A1 SIZE

REV	DATE	DESCRIPTION	DRAW	REV
A	15/10/18	ISSUED TO CITY OF COCKBURN	CB/AH	

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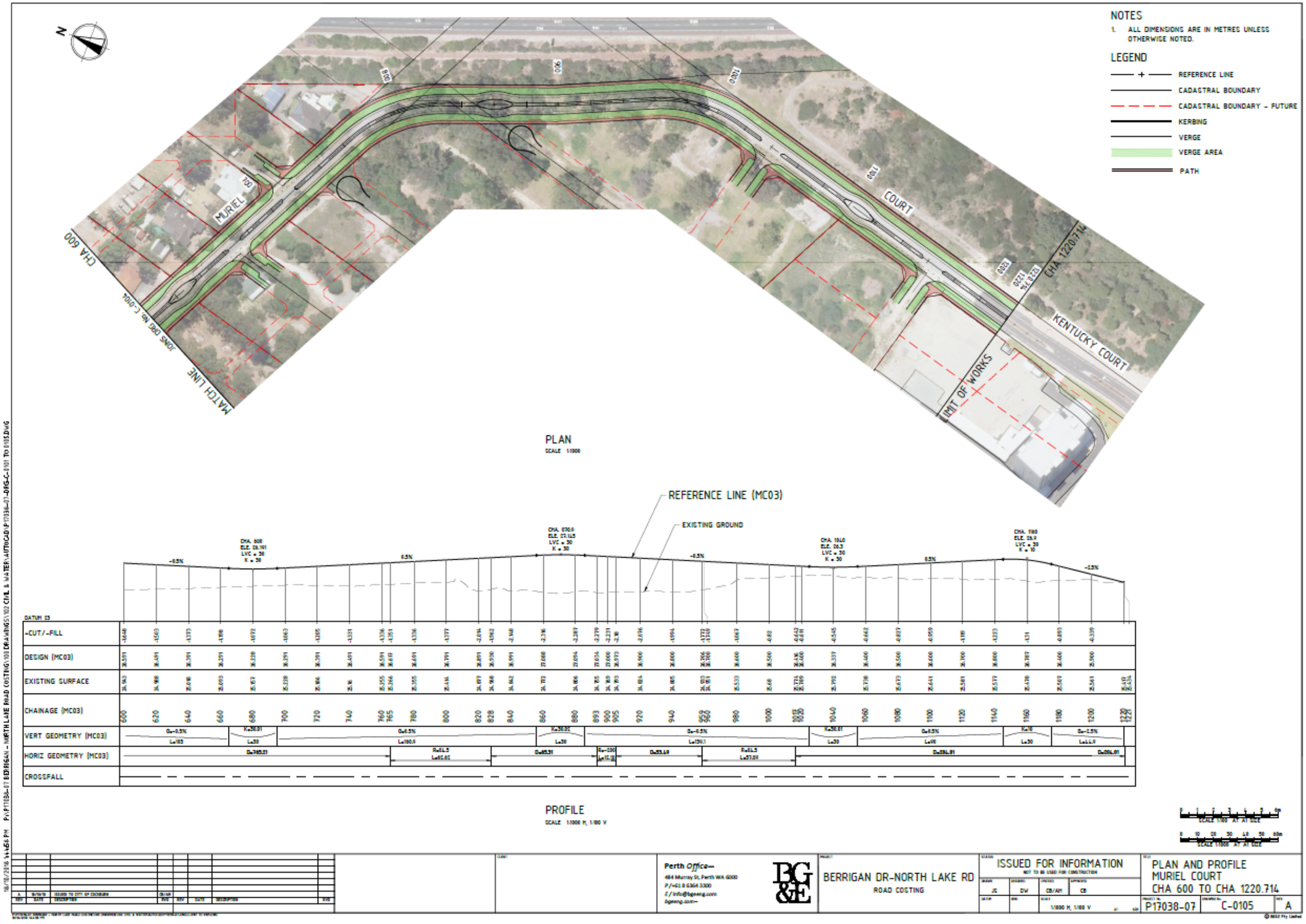
DRAWN	DESIGNED	CHECKED	APPROVED
JG	DW	CB/AH	CB

DATUM: AHD | SCALE: 1:1000 H, 1:100 V

PLAN AND PROFILE
MURIEL COURT
CHA 0 TO CHA 600

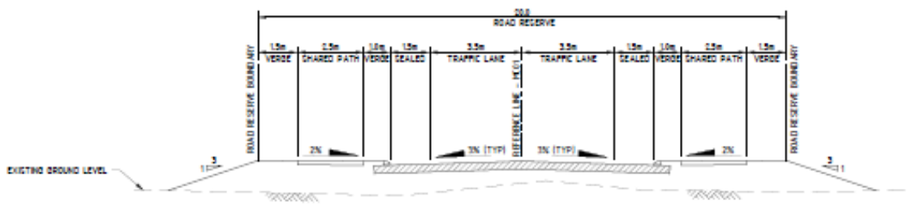
PROJECT No. P17038-07 | DRAWING No. C-0104 | REV. A

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N
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
REFERENCE LINE
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
KERBING
VERGE
VERGE AREA
PATH
MURIEL
COURT
KENTUCKY COURT
CHA 600
CHA 1220.714
MATCH LINE
JOINS DRG No C-0104
LIMIT OF WORKS
PLAN
SCALE 1:1000
REFERENCE LINE (MC03)
EXISTING GROUND
CHA 600 ELE. 28.191 LVC = 30 K = 30
CHA 880.0 ELE. 23.145 LVC = 30 K = 30
CHA 1040 ELE. 26.5 LVC = 30 K = 30
CHA 1180 ELE. 28.9 LVC = 30 K = 10
-0.5%
0.5%
DATUM 23
-CUT/-FILL
DESIGN (MC03)
EXISTING SURFACE
CHAINAGE (MC03)
VERT GEOMETRY (MC03)
HORIZ GEOMETRY (MC03)
CROSSFALL
PROFILE
SCALE 1:1000 H, 1:100 V
SCALE 1:1000 A1 AT SIZE
SCALE 1:500 A1 AT SIZE
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ROAD COSTING
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JG
DW
CB/AH
CB
1:1000 H, 1:100 V
PLAN AND PROFILE
MURIEL COURT
CHA 600 TO CHA 1220.714
P17038-07
C-0105
A
BERRIGAN - NORTH LAKE ROAD COSTING\100 DRAWINGS\102 CIVIL & WATER\AUTOCAD\P17038-07-DRG-C-0101 To 0105.DWG
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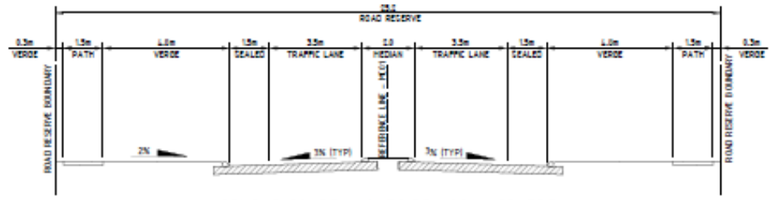
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.



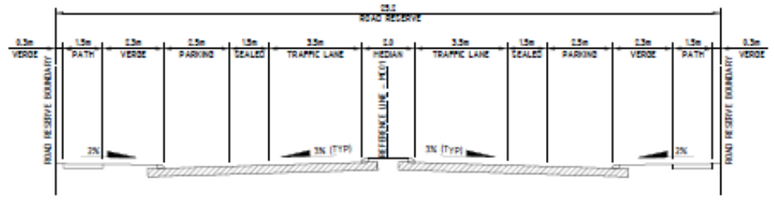
ELDERBERRY DRIVE EXTENSION

SCALE 1:100



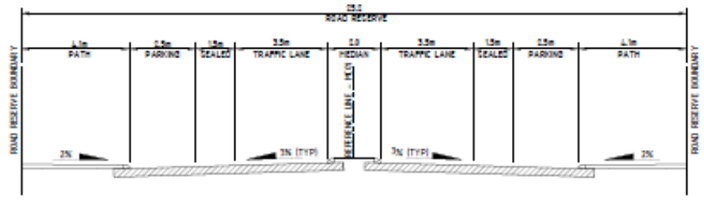
SEMPLE COURT – OUTSIDE LOCAL CENTRE

SCALE 1:100



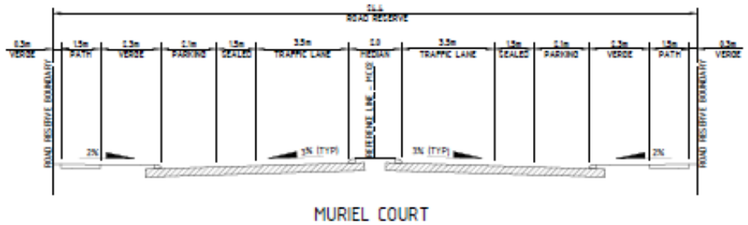
SEMPLE COURT – OUTSIDE LOCAL CENTRE WITH STREET PARKING

SCALE 1:100



SEMPLE COURT – THROUGH LOCAL CENTRE

SCALE 1:100



MURIEL COURT

SCALE 1:100

SCALE 1:100 AT A1 SIZE

REV	DATE	DESCRIPTION	BY/AR
A	16/10/18	ISSUED TO CITY OF COCKBURN	BS/AR

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SCALE 1:100 AT A1 SIZE

TYPICAL CROSS SECTIONS

PROJECT No. P17038-07 | DRAWING No. C-0301 | REV. A

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NOTES

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2. ALL PIPES ARE ⌀300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.

LEGEND

- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY – FUTURE
- EXISTING SIDE ENTRY PIT
- EXISTING GULLY
- EXISTING PIPE
- EXISTING HEADWALL
- EXISTING MANHOLE OR CATCHPIT
- PROPOSED STORMWATER DRAINAGE PIPE
- NEW MANHOLE
- NEW SIDE ENTRY PIT
- NEW STREET GULLY
- NEW HEADWALL
- REMOVE EXISTING PIPE/STRUCTURE
- EXISTING MAJOR CONTOUR (1.0m INTERVALS)
- DESIGN MINOR CONTOUR (0.05m INTERVALS)

REV	DATE	DESCRIPTION	DRAWN	REV	DATE	DESCRIPTION	CHKD
A	18/10/18	ISSUED TO CITY OF ESPERANCE	CM/AH				

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BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

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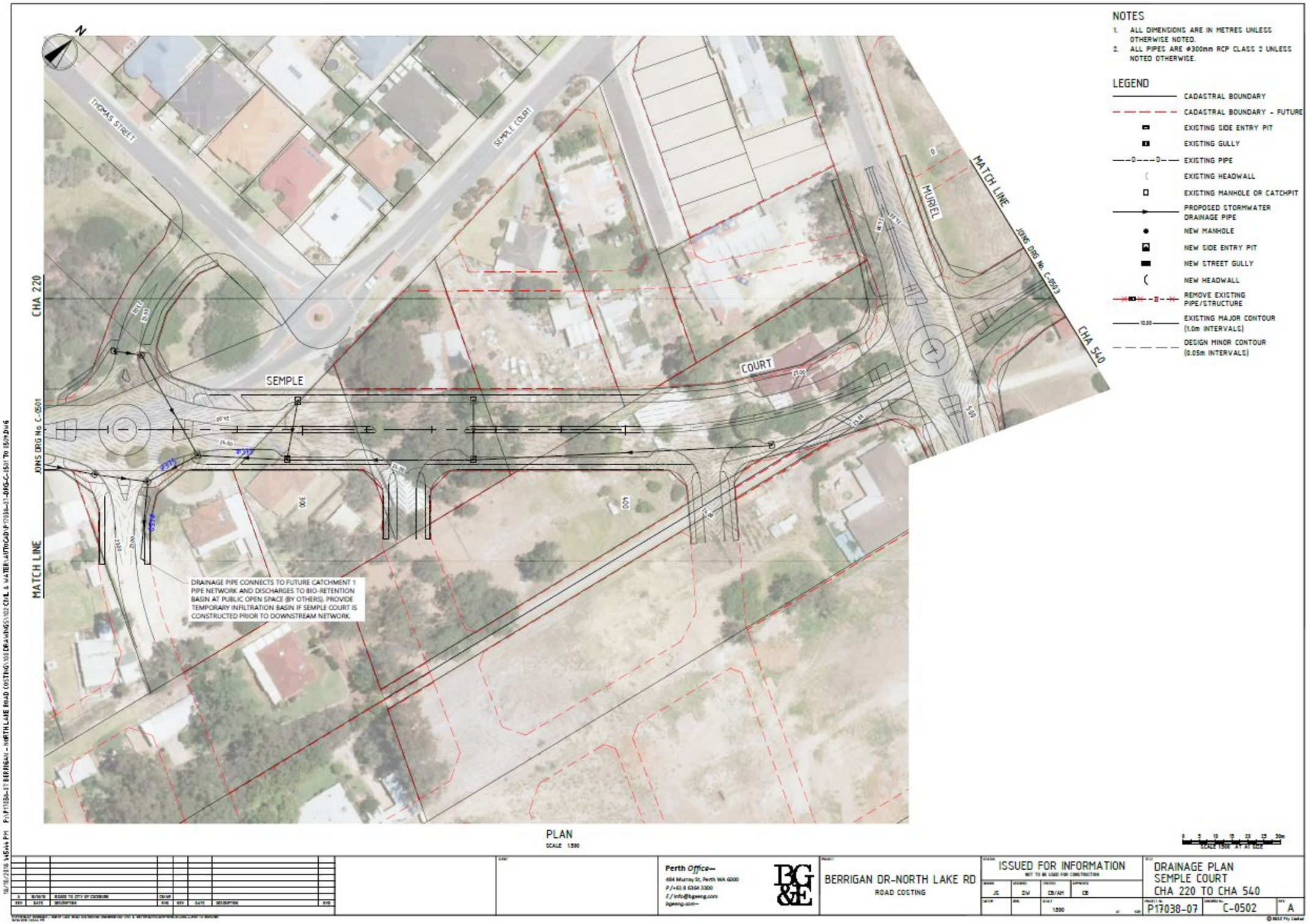
DRAWN	DESIGNED	CHECKED	APPROVED
JG	DW	CB/AH	CB

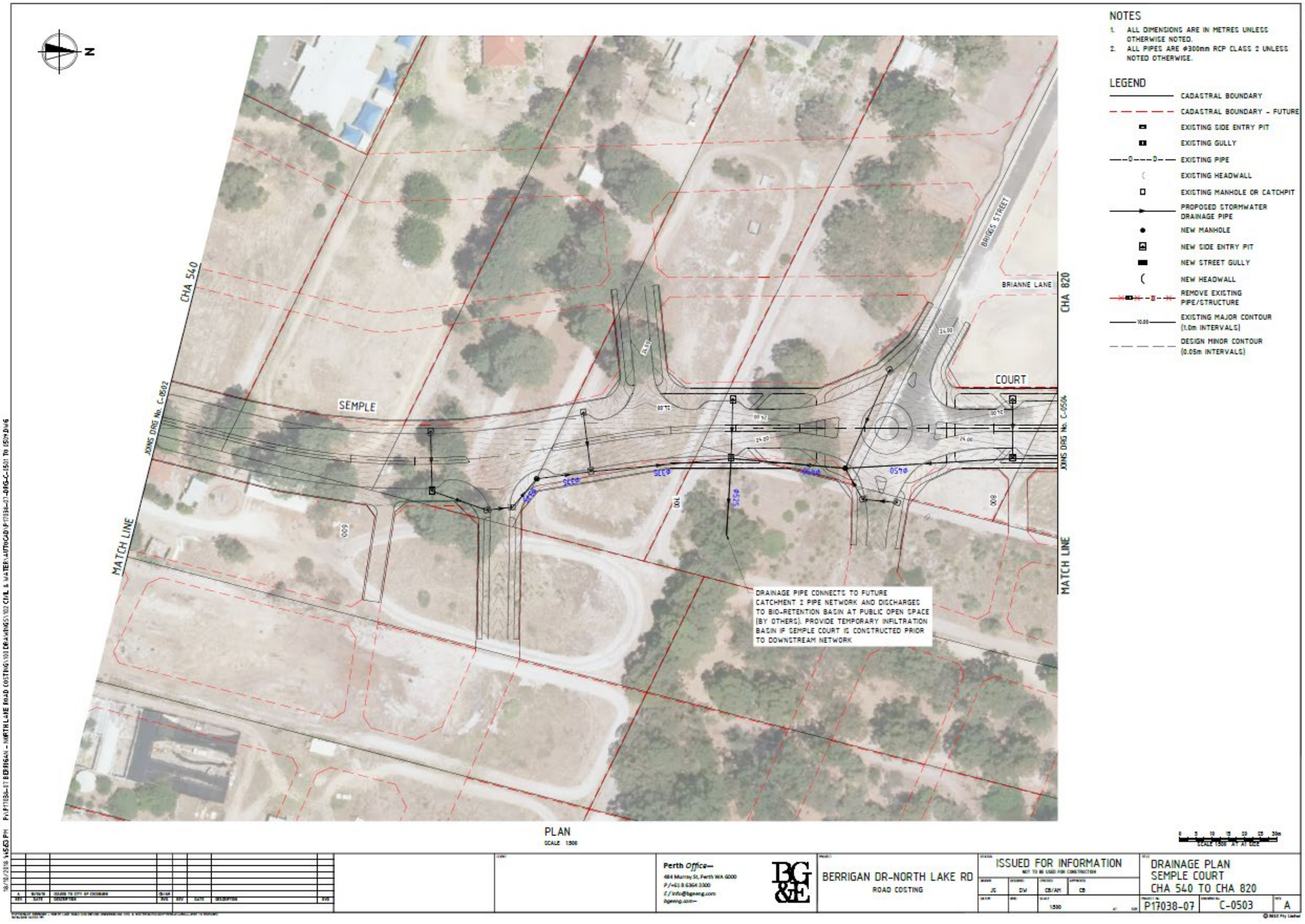
SCALE 1:500

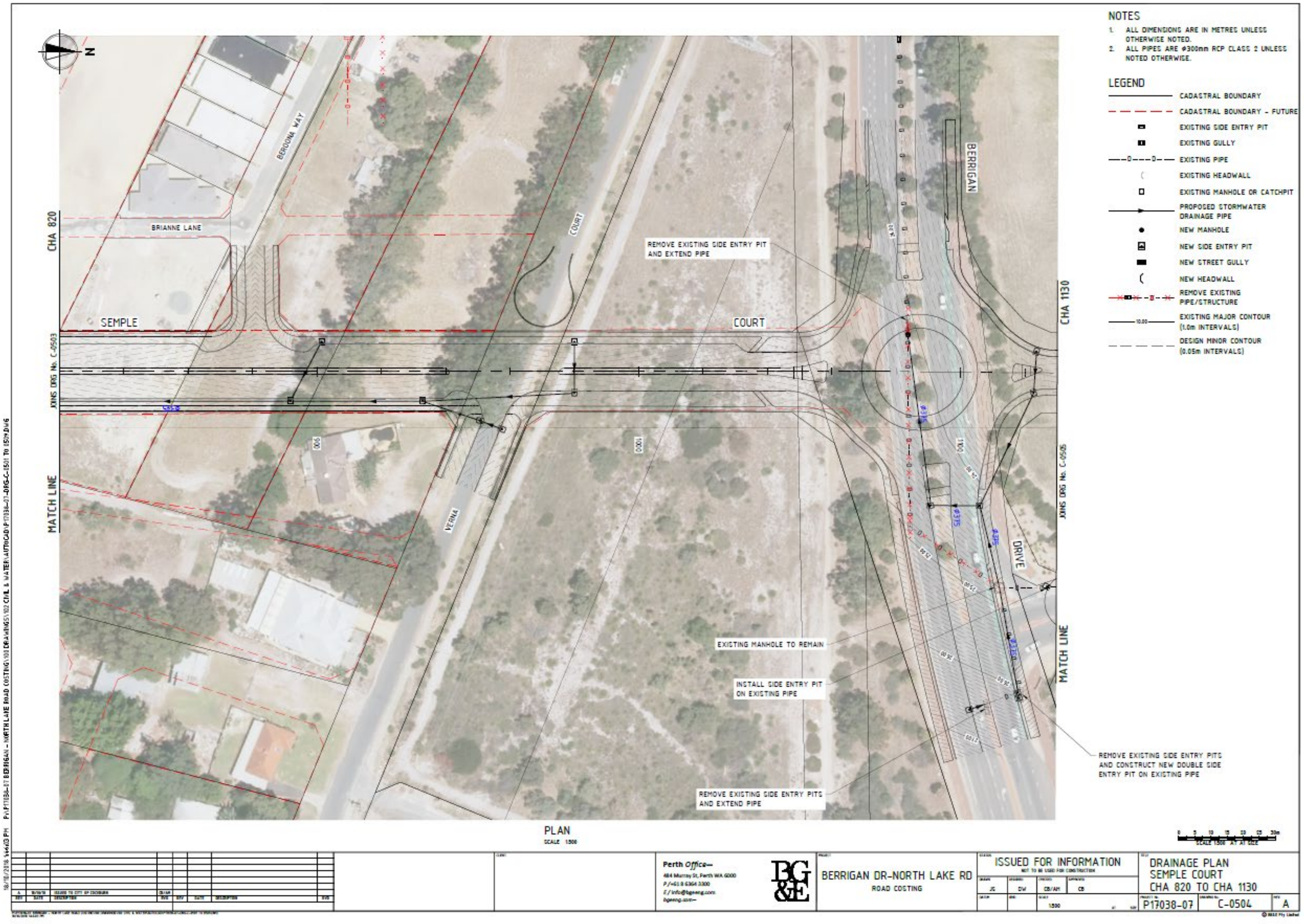
DRAINAGE PLAN
SEMPLE COURT
CHA 0 TO CHA 220

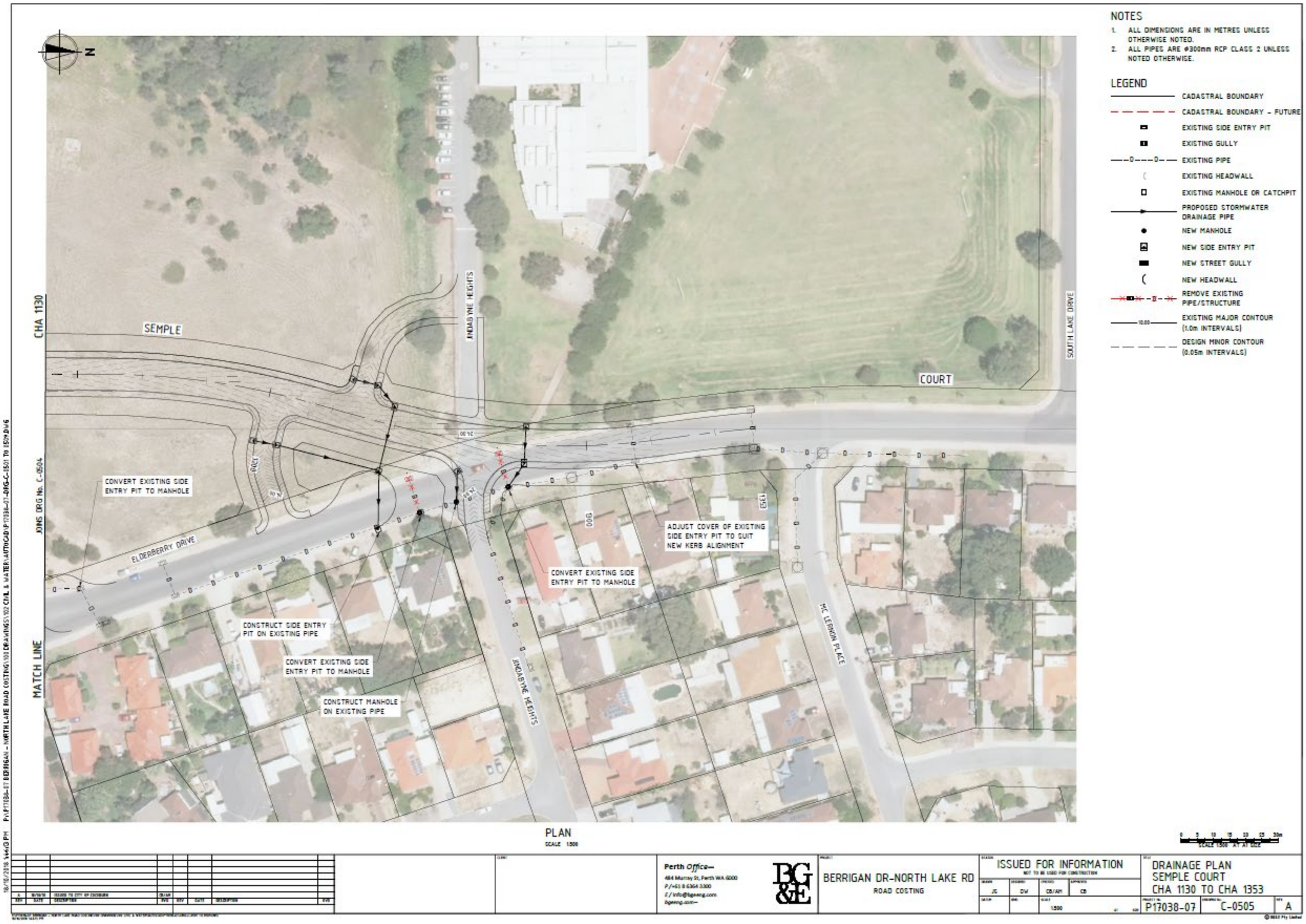
PROJECT No. P17038-07 | DRAWING No. C-0501 | REV A

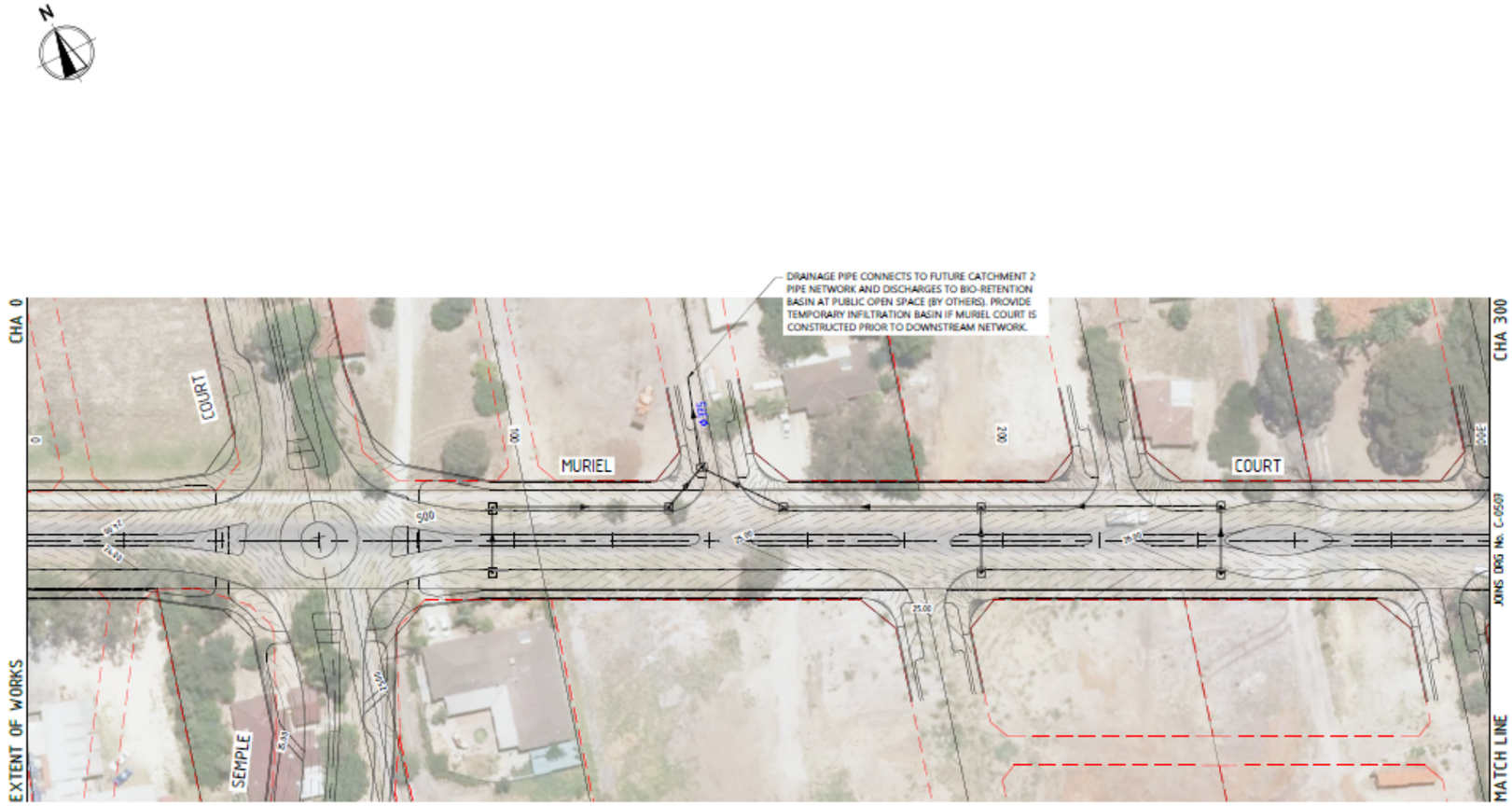
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N
THOMAS STREET
SEMPLE COURT
MURIEL
MATCH LINE
JOINS DRG No C-0503
CHA 540
CHA 220
SEMPLE
COURT
JOINS DRG No C-0501
MATCH LINE
DRAINAGE PIPE CONNECTS TO FUTURE CATCHMENT 1 PIPE NETWORK AND DISCHARGES TO BIO-RETENTION BASIN AT PUBLIC OPEN SPACE (BY OTHERS). PROVIDE TEMPORARY INFILTRATION BASIN IF SEMPLE COURT IS CONSTRUCTED PRIOR TO DOWNSTREAM NETWORK.
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
PLAN
SCALE 1:500
SCALE 1:500 AT A1 SIZE
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DRAWN JC
DESIGNED DW
CHECKED CB/AH
APPROVED CB
SCALE 1:500
DRAINAGE PLAN
SEMPLE COURT
CHA 220 TO CHA 540
PROJECT No. P17038-07
DRAWING No. C-0502
REV A


N
CHA 540
CHA 820
SEMPLE
COURT
BRIGGS STREET
BRIANNE LANE
JOHNS DRG No. C-0502
JOHNS DRG No. C-0504
MATCH LINE
MATCH LINE
DRAINAGE PIPE CONNECTS TO FUTURE CATCHMENT 2 PIPE NETWORK AND DISCHARGES TO BIO-RETENTION BASIN AT PUBLIC OPEN SPACE (BY OTHERS). PROVIDE TEMPORARY INFILTRATION BASIN IF SEMPLE COURT IS CONSTRUCTED PRIOR TO DOWNSTREAM NETWORK
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
PLAN
SCALE 1:500
SCALE 1:500 AT A1 SIZE
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DRAINAGE PLAN
SEMPLE COURT
CHA 540 TO CHA 820
P17038-07
C-0503
A


N
BERGUMA WAY
BRIANNE LANE
SEMPLE
COURT
VERNA
BERRIGAN
DRIVE
CHA 820
CHA 1130
MATCH LINE
MATCH LINE
JOHNS DRG No. C-0503
JOHNS DRG No. C-0505
REMOVE EXISTING SIDE ENTRY PIT AND EXTEND PIPE
EXISTING MANHOLE TO REMAIN
INSTALL SIDE ENTRY PIT ON EXISTING PIPE
REMOVE EXISTING SIDE ENTRY PITS AND EXTEND PIPE
REMOVE EXISTING SIDE ENTRY PITS AND CONSTRUCT NEW DOUBLE SIDE ENTRY PIT ON EXISTING PIPE
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY – FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
PLAN
SCALE 1:500
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BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
DRAINAGE PLAN
SEMPLE COURT
CHA 820 TO CHA 1130
P17038-07
C-0504
A


N
CHA 1130
SEMPLE
COURT
SOUTH LAKE DRIVE
LINDABYNE HEIGHTS
CONVERT EXISTING SIDE ENTRY PIT TO MANHOLE
ELDERBERRY DRIVE
CONSTRUCT SIDE ENTRY PIT ON EXISTING PIPE
CONVERT EXISTING SIDE ENTRY PIT TO MANHOLE
CONSTRUCT MANHOLE ON EXISTING PIPE
LINDABYNE HEIGHTS
CONVERT EXISTING SIDE ENTRY PIT TO MANHOLE
ADJUST COVER OF EXISTING SIDE ENTRY PIT TO SUIT NEW KERB ALIGNMENT
MC LERNON PLACE
MATCH LINE
JOINS DRG No. C-0504
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
PLAN
SCALE 1:500
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JC
DW
CB/AH
CB
1:500
DRAINAGE PLAN
SEMPLE COURT
CHA 1130 TO CHA 1353
P17038-07
C-0505
A



NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.

LEGEND

- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY – FUTURE
- EXISTING SIDE ENTRY PIT
- EXISTING GULLY
- EXISTING PIPE
- EXISTING HEADWALL
- EXISTING MANHOLE OR CATCHPIT
- PROPOSED STORMWATER DRAINAGE PIPE
- NEW MANHOLE
- NEW SIDE ENTRY PIT
- NEW STREET GULLY
- NEW HEADWALL
- REMOVE EXISTING PIPE/STRUCTURE
- EXISTING MAJOR CONTOUR (1.0m INTERVALS)
- DESIGN MINOR CONTOUR (0.05m INTERVALS)

PLAN
SCALE 1:500

SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	DRAWN
A	15/10/18	ISSUED TO CITY OF COCKBURN	DW

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BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

ISSUED FOR INFORMATION
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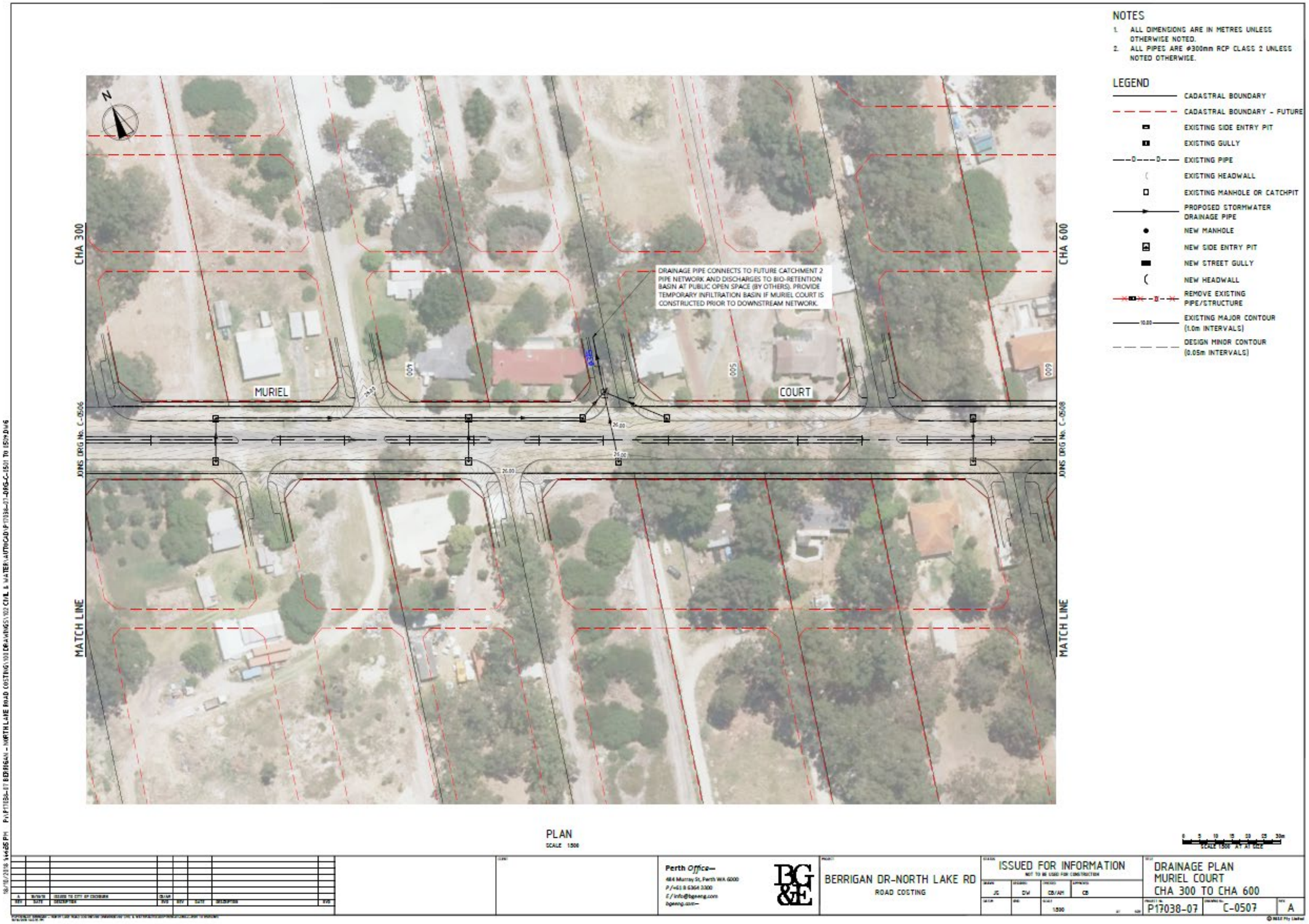
DRAWN	DESIGNED	CHECKED	APPROVED
JG	DW	CB/AM	CB

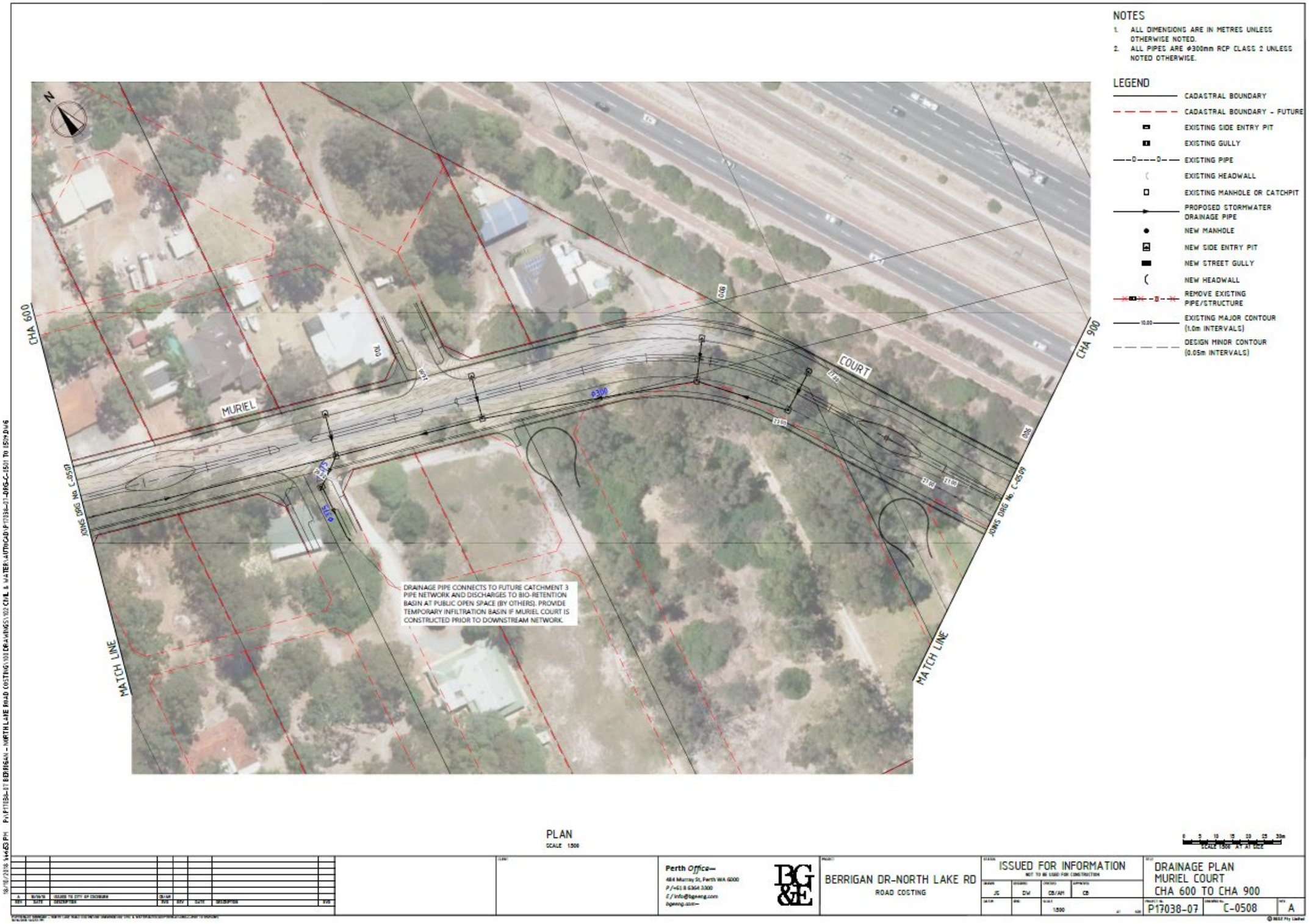
SCALE: 1:500 AT A1

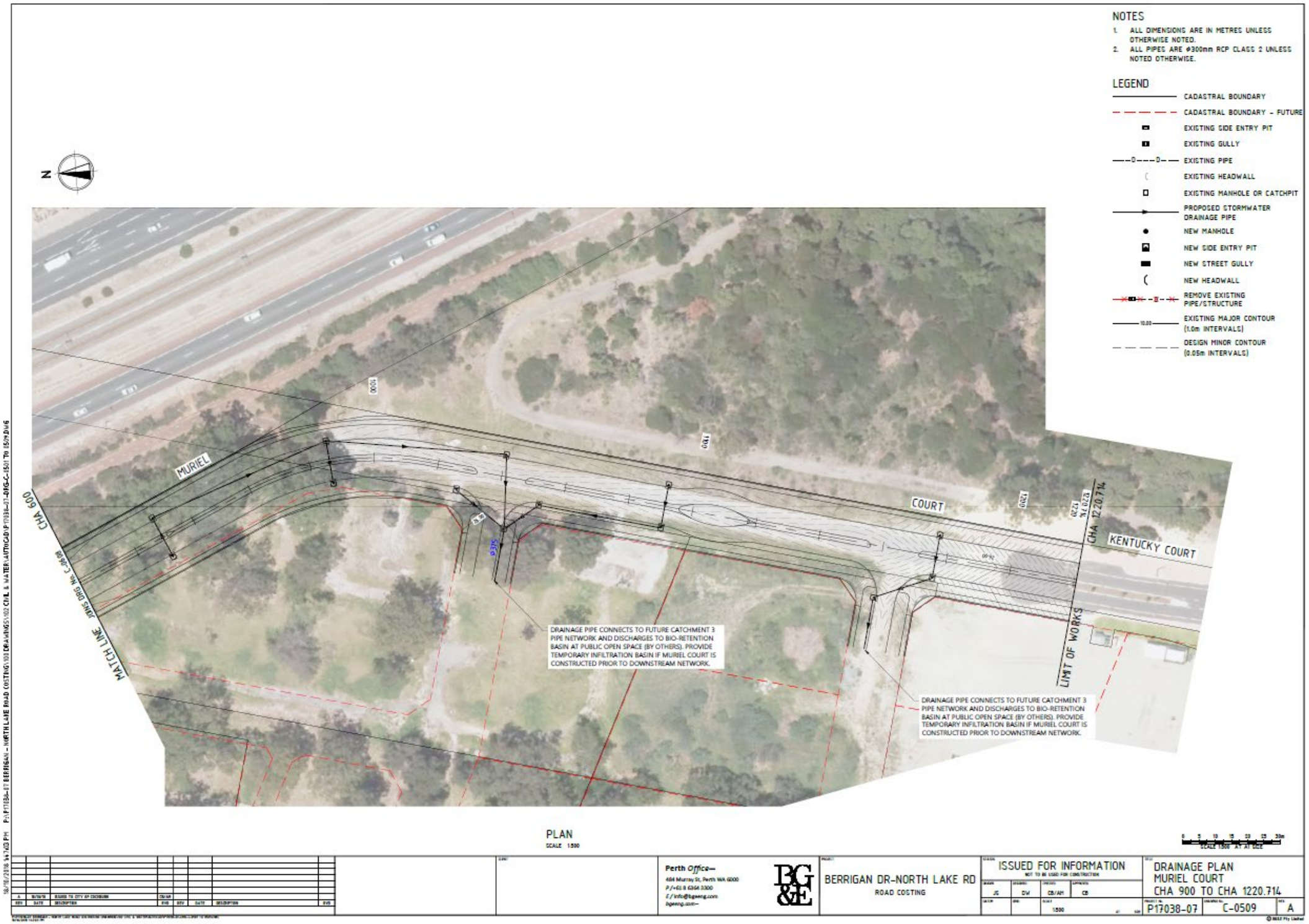
DRAINAGE PLAN
MURIEL COURT
CHA 0 TO CHA 300

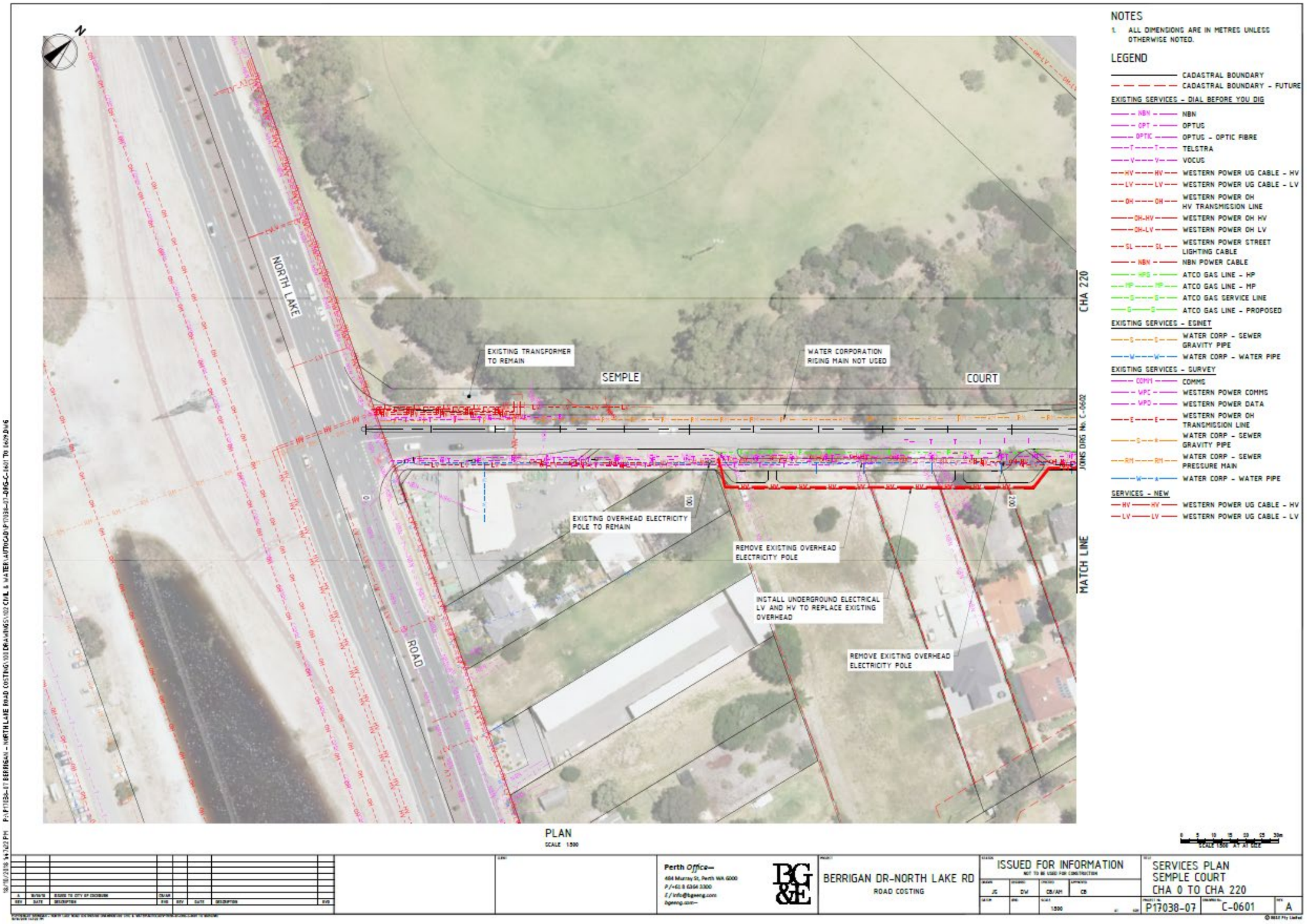
PROJECT No.	DRAWING No.	REV
P17038-07	C-0506	A

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N
CHA 300
CHA 600
MURIEL
COURT
DRAINAGE PIPE CONNECTS TO FUTURE CATCHMENT 2 PIPE NETWORK AND DISCHARGES TO BIO-RETENTION BASIN AT PUBLIC OPEN SPACE (BY OTHERS). PROVIDE TEMPORARY INFILTRATION BASIN IF MURIEL COURT IS CONSTRUCTED PRIOR TO DOWNSTREAM NETWORK.
MATCH LINE
MATCH LINE
JDMS DRG No. C-0506
JDMS DRG No. C-0508
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
PLAN
SCALE 1:500
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ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
DRAINAGE PLAN
MURIEL COURT
CHA 300 TO CHA 600
P17038-07
C-0507
A


NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE Ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
N
CHA 600
CHA 900
MURIEL
COURT
Ø300
JDWS DRG No. C-0507
JDWS DRG No. C-0509
DRAINAGE PIPE CONNECTS TO FUTURE CATCHMENT 3 PIPE NETWORK AND DISCHARGES TO BIO-RETENTION BASIN AT PUBLIC OPEN SPACE (BY OTHERS). PROVIDE TEMPORARY INFILTRATION BASIN IF MURIEL COURT IS CONSTRUCTED PRIOR TO DOWNSTREAM NETWORK.
MATCH LINE
MATCH LINE
PLAN
SCALE 1:500
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
DRAINAGE PLAN
MURIEL COURT
CHA 600 TO CHA 900
P17038-07
C-0508
A


NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL PIPES ARE ø300mm RCP CLASS 2 UNLESS NOTED OTHERWISE.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SIDE ENTRY PIT
EXISTING GULLY
EXISTING PIPE
EXISTING HEADWALL
EXISTING MANHOLE OR CATCHPIT
PROPOSED STORMWATER DRAINAGE PIPE
NEW MANHOLE
NEW SIDE ENTRY PIT
NEW STREET GULLY
NEW HEADWALL
REMOVE EXISTING PIPE/STRUCTURE
EXISTING MAJOR CONTOUR (1.0m INTERVALS)
DESIGN MINOR CONTOUR (0.05m INTERVALS)
N
MURIEL
COURT
KENTUCKY COURT
CHA 600
CHA 1220.714
MATCH LINE
LIMIT OF WORKS
DRAINAGE PIPE CONNECTS TO FUTURE CATCHMENT 3 PIPE NETWORK AND DISCHARGES TO BIO-RETENTION BASIN AT PUBLIC OPEN SPACE (BY OTHERS). PROVIDE TEMPORARY INFILTRATION BASIN IF MURIEL COURT IS CONSTRUCTED PRIOR TO DOWNSTREAM NETWORK.
DRAINAGE PIPE CONNECTS TO FUTURE CATCHMENT 3 PIPE NETWORK AND DISCHARGES TO BIO-RETENTION BASIN AT PUBLIC OPEN SPACE (BY OTHERS). PROVIDE TEMPORARY INFILTRATION BASIN IF MURIEL COURT IS CONSTRUCTED PRIOR TO DOWNSTREAM NETWORK.
PLAN
SCALE 1:500
SCALE 1:500 AT A1 SIZE
Perth Office
464 Murray St, Perth WA 6000
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E/ info@bgeeng.com
bgeeng.com
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
DRAINAGE PLAN
MURIEL COURT
CHA 900 TO CHA 1220.714
P17038-07
C-0509
A



PLAN
SCALE 1:500

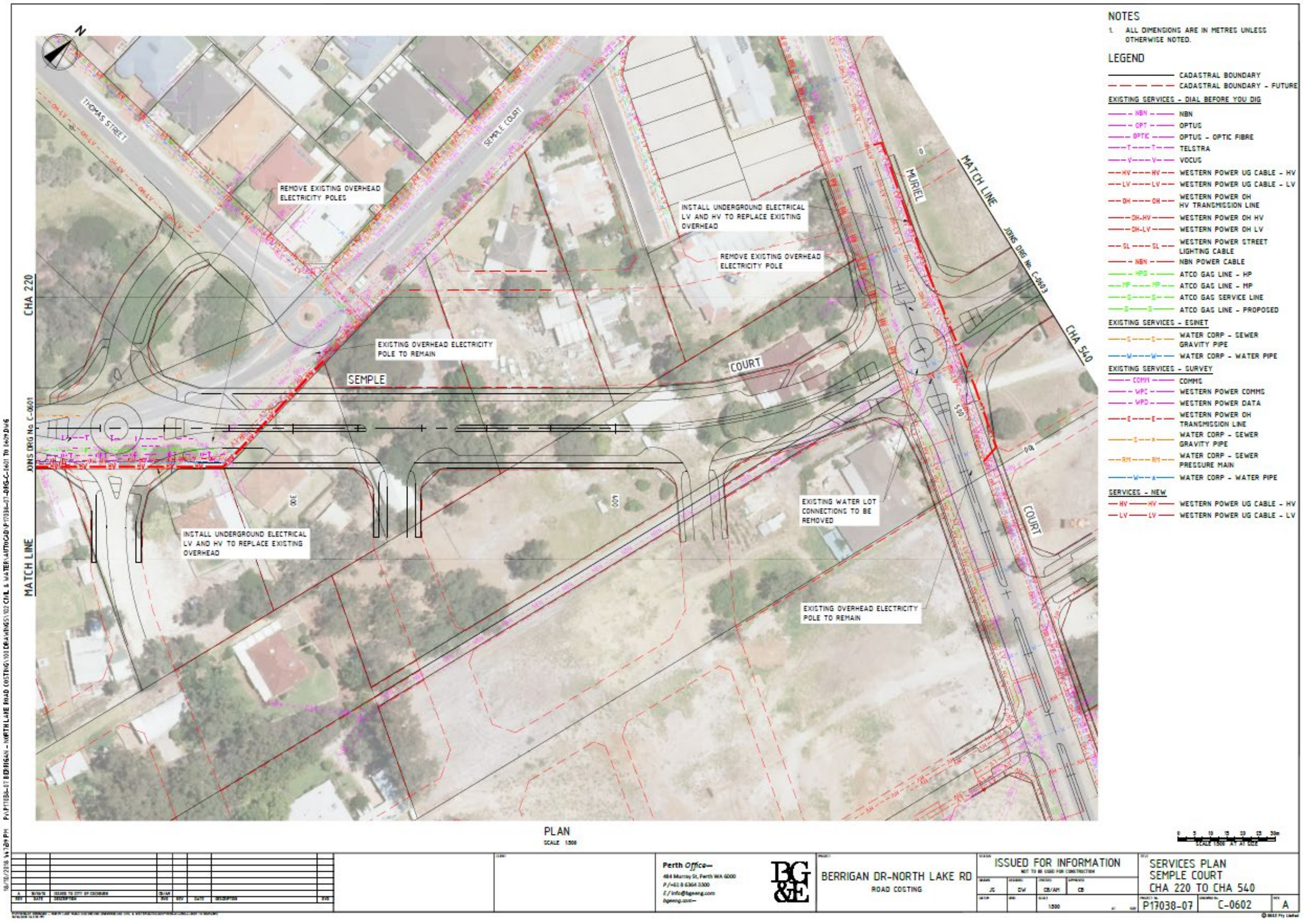
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bgeeng.com

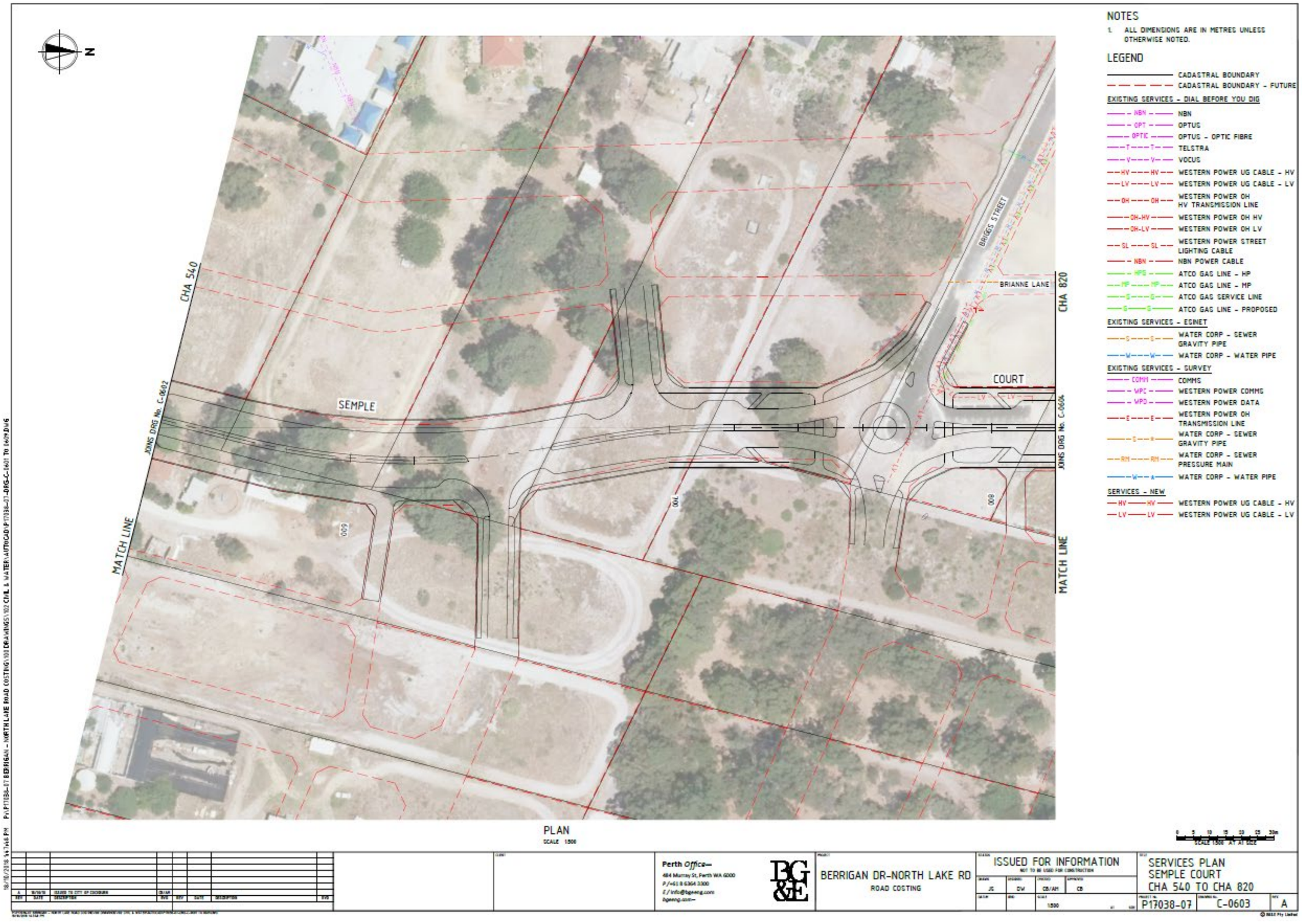
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

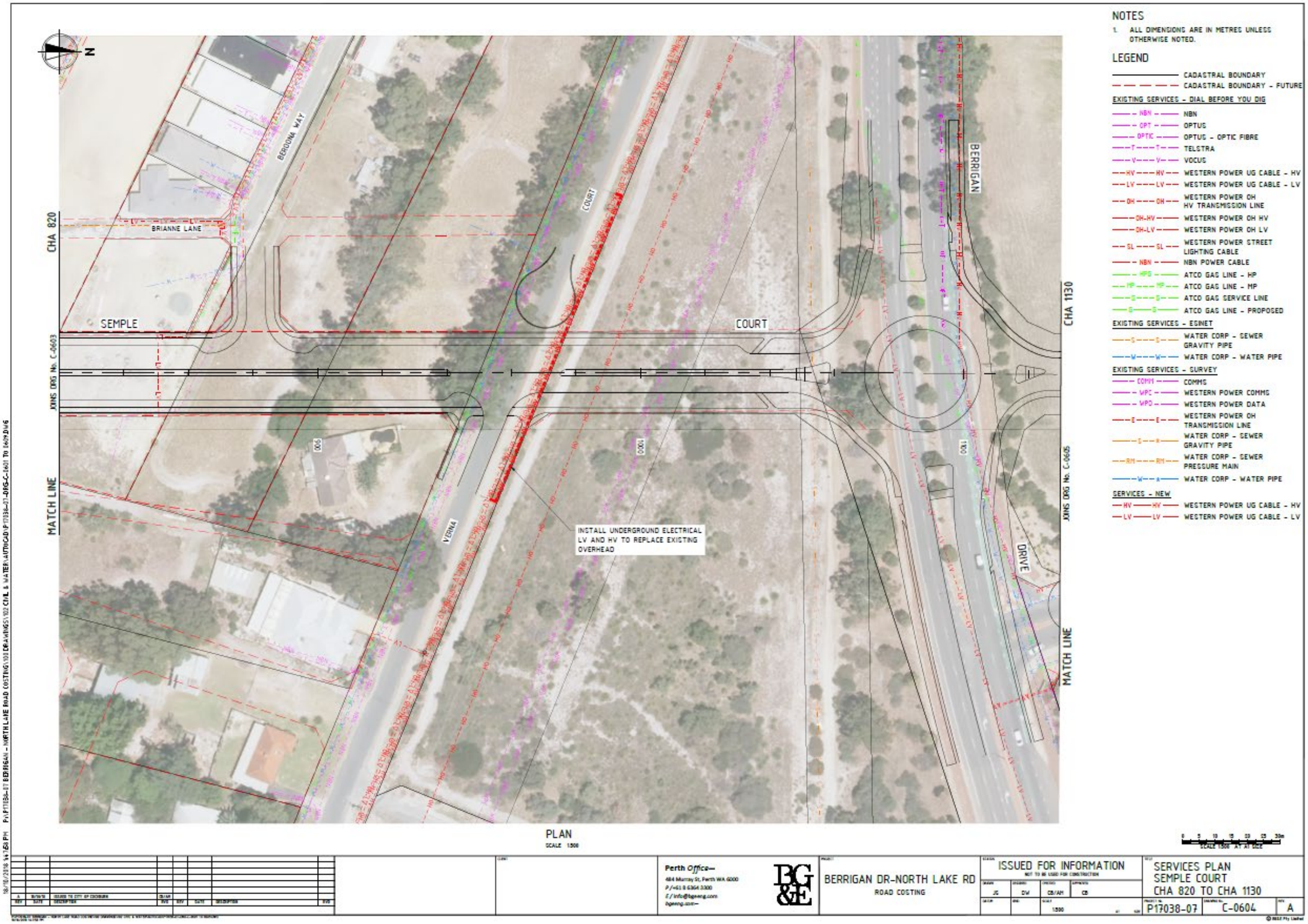
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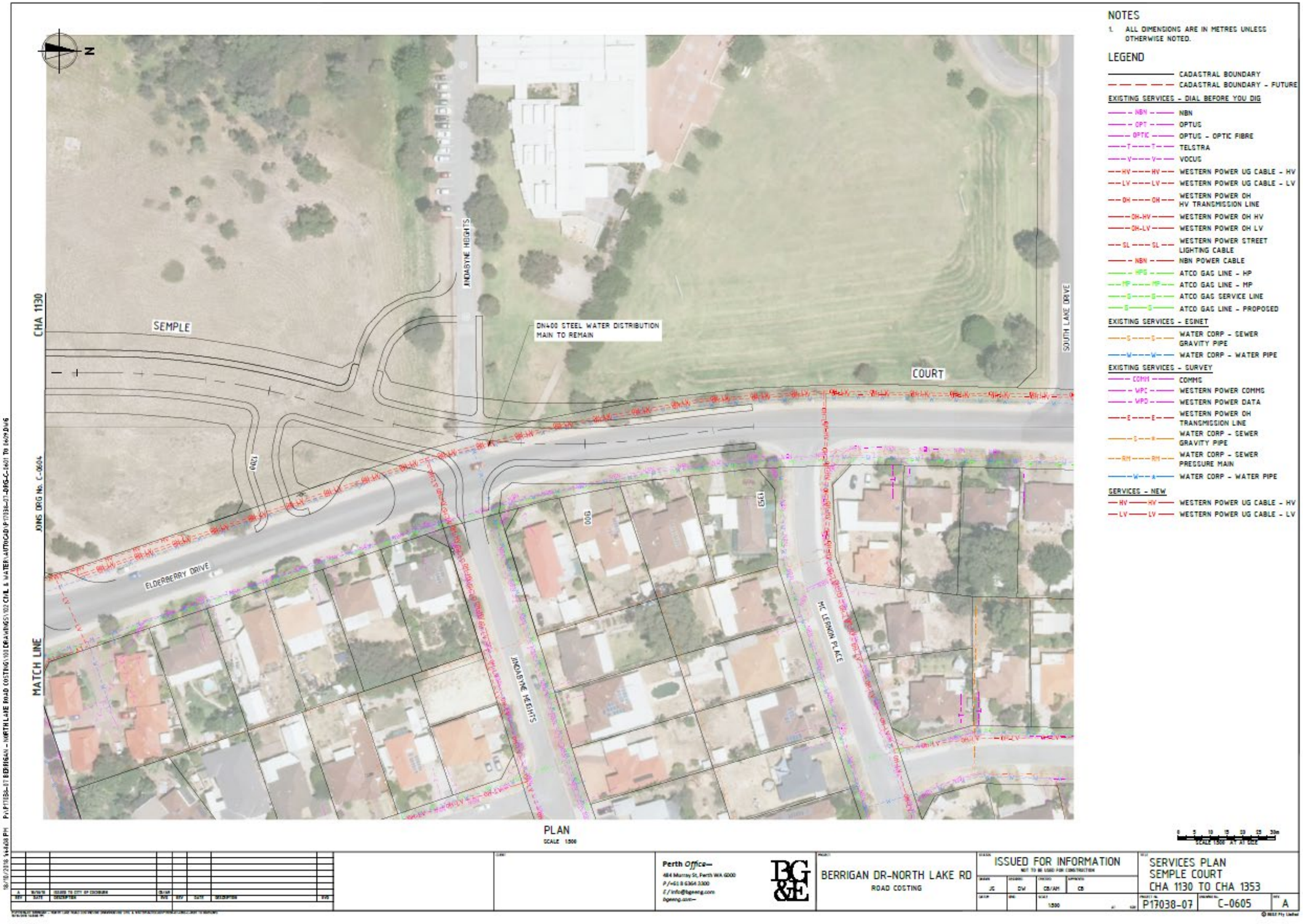
SERVICES PLAN
SEMPLE COURT
CHA 0 TO CHA 220

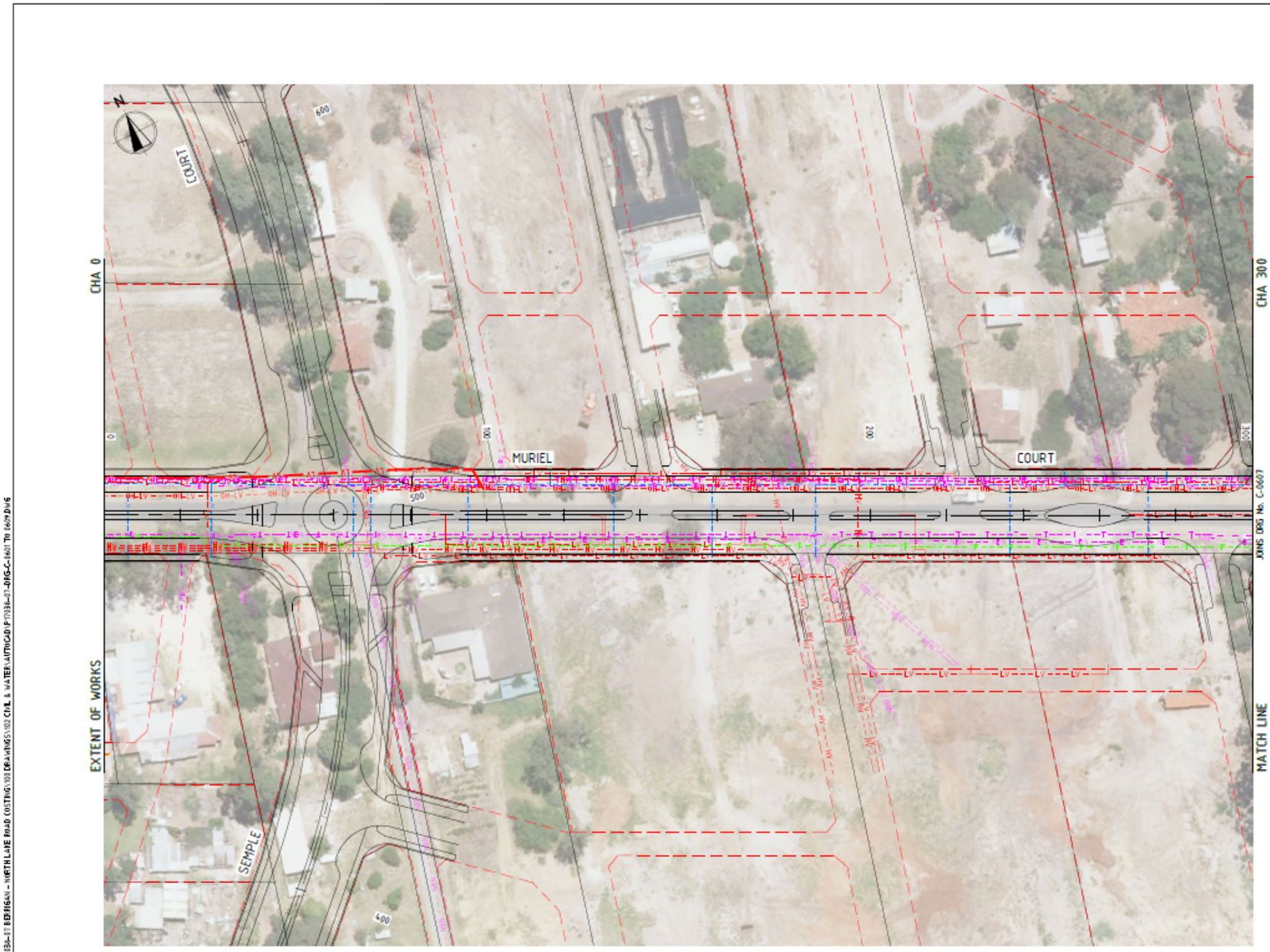
P17038-07 | C-0601 | A


N
THOMAS STREET
SEMPLE COURT
REMOVE EXISTING OVERHEAD ELECTRICITY POLES
INSTALL UNDERGROUND ELECTRICAL LV AND HV TO REPLACE EXISTING OVERHEAD
REMOVE EXISTING OVERHEAD ELECTRICITY POLE
EXISTING OVERHEAD ELECTRICITY POLE TO REMAIN
SEMPLE COURT
MURIEL COURT
MATCH LINE
JOINS DRG No. C-0603
CHA 220
CHA 540
JOINS DRG No. C-0601
MATCH LINE
INSTALL UNDERGROUND ELECTRICAL LV AND HV TO REPLACE EXISTING OVERHEAD
EXISTING WATER LOT CONNECTIONS TO BE REMOVED
EXISTING OVERHEAD ELECTRICITY POLE TO REMAIN
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SERVICES - DIAL BEFORE YOU DIG
NBN
OPTUS
OPTUS - OPTIC FIBRE
TELSTRA
VOCUS
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
WESTERN POWER OH HV TRANSMISSION LINE
WESTERN POWER OH HV
WESTERN POWER OH LV
WESTERN POWER STREET LIGHTING CABLE
NBN POWER CABLE
ATCO GAS LINE - HP
ATCO GAS LINE - MP
ATCO GAS SERVICE LINE
ATCO GAS LINE - PROPOSED
EXISTING SERVICES - ESINET
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - WATER PIPE
EXISTING SERVICES - SURVEY
COMMS
WESTERN POWER COMMS
WESTERN POWER DATA
WESTERN POWER OH TRANSMISSION LINE
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - SEWER PRESSURE MAIN
WATER CORP - WATER PIPE
SERVICES - NEW
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
PLAN
SCALE 1:500
Perth Office
484 Murray St, Perth WA 6000
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E/info@bgeeng.com
bgeeng.com
BG&E
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
JC
DW
CB/AM
CB
1:500
SERVICES PLAN
SEMPLE COURT
CHA 220 TO CHA 540
P17038-07
C-0602
A


N
CHA 540
SEMPLE
COURT
BRIGGS STREET
BRIANNE LANE
CHA 820
JOINS DRG No. C-0602
JOINS DRG No. C-0604
MATCH LINE
MATCH LINE
600
700
800
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SERVICES - DIAL BEFORE YOU DIG
NBN
OPTUS
OPTUS - OPTIC FIBRE
TELSTRA
VOCUS
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
WESTERN POWER OH HV TRANSMISSION LINE
WESTERN POWER OH HV
WESTERN POWER OH LV
WESTERN POWER STREET LIGHTING CABLE
NBN POWER CABLE
ATCO GAS LINE - HP
ATCO GAS LINE - MP
ATCO GAS SERVICE LINE
ATCO GAS LINE - PROPOSED
EXISTING SERVICES - ESNET
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - WATER PIPE
EXISTING SERVICES - SURVEY
COMMS
WESTERN POWER COMMS
WESTERN POWER DATA
WESTERN POWER OH TRANSMISSION LINE
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - SEWER PRESSURE MAIN
WATER CORP - WATER PIPE
SERVICES - NEW
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
PLAN
SCALE 1:500
SCALE 1:500 AT A1 SIZE
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DW
CB/AM
CB
1:500
SERVICES PLAN
SEMPLE COURT
CHA 540 TO CHA 820
P17038-07
C-0603
A


N
BERGUNA WAY
BRIANNE LANE
SEMPLE COURT
BERRIGAN DRIVE
CHA 820
CHA 1130
JOINS DRG No. C-0603
JOINS DRG No. C-0605
MATCH LINE
MATCH LINE
VERNA
INSTALL UNDERGROUND ELECTRICAL LV AND HV TO REPLACE EXISTING OVERHEAD
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SERVICES - DIAL BEFORE YOU DIG
NBN
OPTUS
OPTUS - OPTIC FIBRE
TELSTRA
VOCUS
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
WESTERN POWER OH HV TRANSMISSION LINE
WESTERN POWER OH HV
WESTERN POWER OH LV
WESTERN POWER STREET LIGHTING CABLE
NBN POWER CABLE
ATCO GAS LINE - HP
ATCO GAS LINE - MP
ATCO GAS SERVICE LINE
ATCO GAS LINE - PROPOSED
EXISTING SERVICES - EGINET
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - WATER PIPE
EXISTING SERVICES - SURVEY
COMMS
WESTERN POWER COMMS
WESTERN POWER DATA
WESTERN POWER OH TRANSMISSION LINE
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - SEWER PRESSURE MAIN
WATER CORP - WATER PIPE
SERVICES - NEW
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
PLAN
SCALE 1:500
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SERVICES PLAN
SEMPLE COURT
CHA 820 TO CHA 1130
P17038-07
C-0604
A


N
CHA 1130
SEMPLE
COURT
JINDABYNE HEIGHTS
SOUTH LAKE DRIVE
DN400 STEEL WATER DISTRIBUTION MAIN TO REMAIN
ELDERBERRY DRIVE
MATCH LINE
MC LERMON PLACE
JINDABYNE HEIGHTS
1200
600
1350
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SERVICES - DIAL BEFORE YOU DIG
NBN
OPTUS
OPTUS - OPTIC FIBRE
TELSTRA
VOCUS
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
WESTERN POWER OH HV TRANSMISSION LINE
WESTERN POWER OH HV
WESTERN POWER OH LV
WESTERN POWER STREET LIGHTING CABLE
NBN POWER CABLE
ATCO GAS LINE - HP
ATCO GAS LINE - MP
ATCO GAS SERVICE LINE
ATCO GAS LINE - PROPOSED
EXISTING SERVICES - ESINET
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - WATER PIPE
EXISTING SERVICES - SURVEY
COMMS
WESTERN POWER COMMS
WESTERN POWER DATA
WESTERN POWER OH TRANSMISSION LINE
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - SEWER PRESSURE MAIN
WATER CORP - WATER PIPE
SERVICES - NEW
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
PLAN
SCALE 1:500
JOINS DRG No. C-0604
Perth Office
484 Murray St, Perth WA 6000
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E/info@bgeeng.com
bgeeng.com
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
JC
DW
CB/AH
CB
1:500
SERVICES PLAN
SEMPLE COURT
CHA 1130 TO CHA 1353
P17038-07
C-0605
A



PLAN
SCALE 1:500

NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND
- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE

EXISTING SERVICES - DIAL BEFORE YOU DIG
- NBN
- OPT
- OPTIC — OPTUS - OPTIC FIBRE
- T — TELSTRA
- V — VOCUS
- HV — WESTERN POWER UG CABLE - HV
- LV — WESTERN POWER UG CABLE - LV
- OH — WESTERN POWER OH HV TRANSMISSION LINE
- OH-HV — WESTERN POWER OH HV
- OH-LV — WESTERN POWER OH LV
- SL — WESTERN POWER STREET LIGHTING CABLE
- NBN — NBN POWER CABLE
- HPG — ATCO GAS LINE - HP
- MP — ATCO GAS LINE - MP
- G — ATCO GAS SERVICE LINE
- G — ATCO GAS LINE - PROPOSED

EXISTING SERVICES - ESINET
- S — WATER CORP - SEWER GRAVITY PIPE
- W — WATER CORP - WATER PIPE

EXISTING SERVICES - SURVEY
- COMM — COMMS
- WPC — WESTERN POWER COMMS
- WPD — WESTERN POWER DATA
- E — WESTERN POWER OH TRANSMISSION LINE
- S — WATER CORP - SEWER GRAVITY PIPE
- RM — WATER CORP - SEWER PRESSURE MAIN
- W — WATER CORP - WATER PIPE

SERVICES - NEW
- HV — WESTERN POWER UG CABLE - HV
- LV — WESTERN POWER UG CABLE - LV

SHEET DRG No. C-0607

REV	DATE	DESCRIPTION	DWN	REV	DATE	DESCRIPTION	CHK
A	19/10/18	ISSUED TO CITY OF ESCONDIDO	DW/AM				

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bgeeng.com—

BG&E

BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

DESIGN	DRAWN	CHECKED	APPROVED
JC	DW	CB/AM	CB

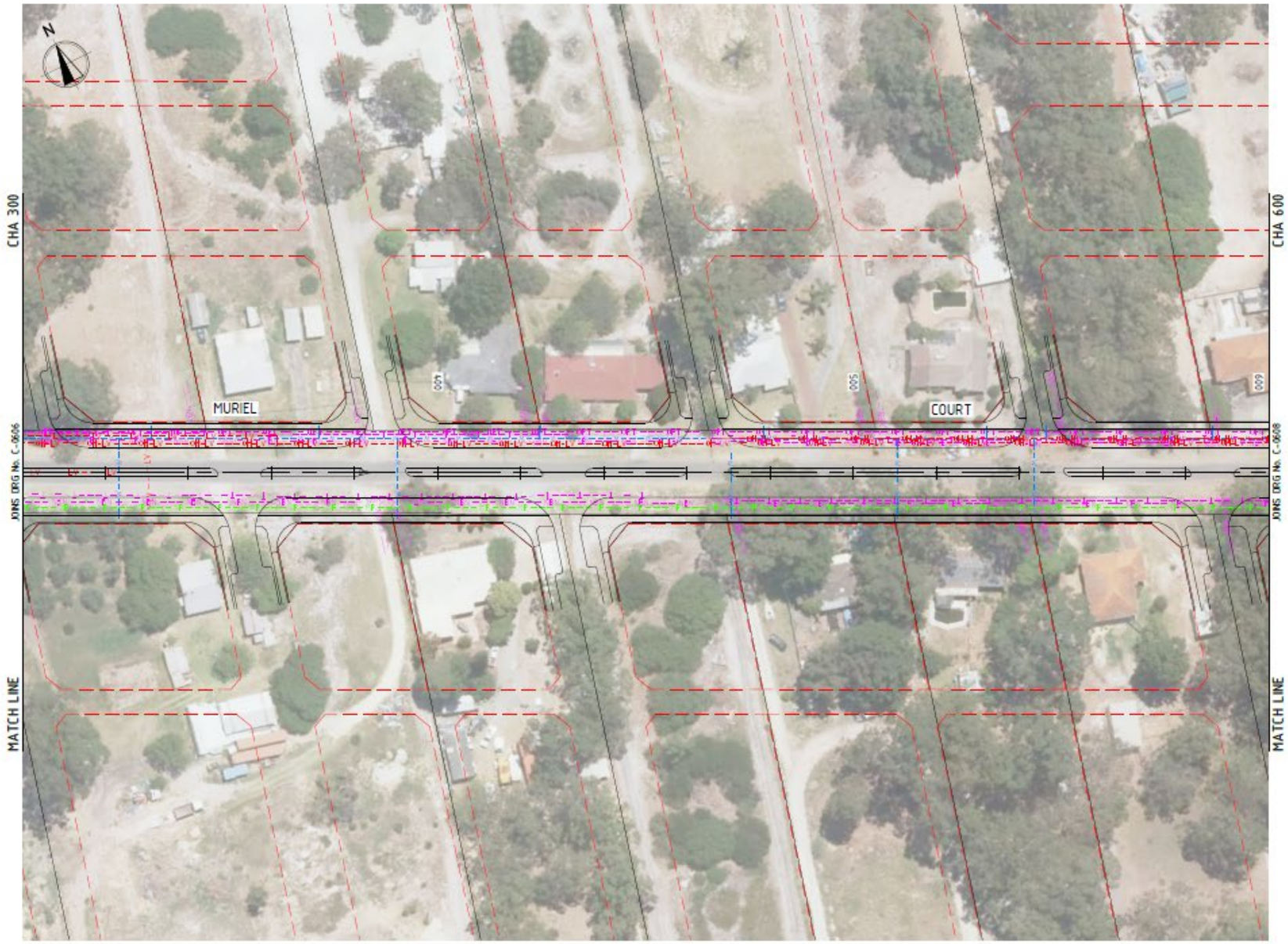
DATE —
SCALE 1:500 AT A1 SIZE

SERVICES PLAN
MURIEL COURT
CHA 0 TO CHA 300

PROJECT No. P17038-07
DRAWING No. C-0606
REV A

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18/10/2018 9:49:03 PM P:\P17038-07 BERRIGAN - NORTH LAKE ROAD COSTING\100 DRAWINGS\102 CIVIL & WATER\AUTOCAD\P17038-07-DRG-C-0601 TO 0699.DWG



PLAN
SCALE 1:500

NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND
- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE

EXISTING SERVICES - DIAL BEFORE YOU DIG
- NBN — NBN
- OPT — OPTUS
- OPTIC — OPTUS - OPTIC FIBRE
- T — TELSTRA
- V — VOCUS
- HV — WESTERN POWER UG CABLE - HV
- LV — WESTERN POWER UG CABLE - LV
- OH — WESTERN POWER OH HV TRANSMISSION LINE
- OH-HV — WESTERN POWER OH HV
- OH-LV — WESTERN POWER OH LV
- SL — WESTERN POWER STREET LIGHTING CABLE
- NBN — NBN POWER CABLE
- MPG — ATCO GAS LINE - HP
- MP — ATCO GAS LINE - MP
- G — ATCO GAS SERVICE LINE
- G — ATCO GAS LINE - PROPOSED

EXISTING SERVICES - ESNET
- S — WATER CORP - SEWER GRAVITY PIPE
- W — WATER CORP - WATER PIPE

EXISTING SERVICES - SURVEY
- COMM — COMMS
- WPC — WESTERN POWER COMMS
- WPD — WESTERN POWER DATA
- E — WESTERN POWER OH TRANSMISSION LINE
- S — WATER CORP - SEWER GRAVITY PIPE
- RM — WATER CORP - SEWER PRESSURE MAIN
- W — WATER CORP - WATER PIPE

SERVICES - NEW
- HV — WESTERN POWER UG CABLE - HV
- LV — WESTERN POWER UG CABLE - LV

REV	DATE	DESCRIPTION	DR/AR	REV	DATE	DESCRIPTION	DR/AR
A	19/10/18	ISSUED TO CITY OF COCKBURN	CB/AH				

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BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

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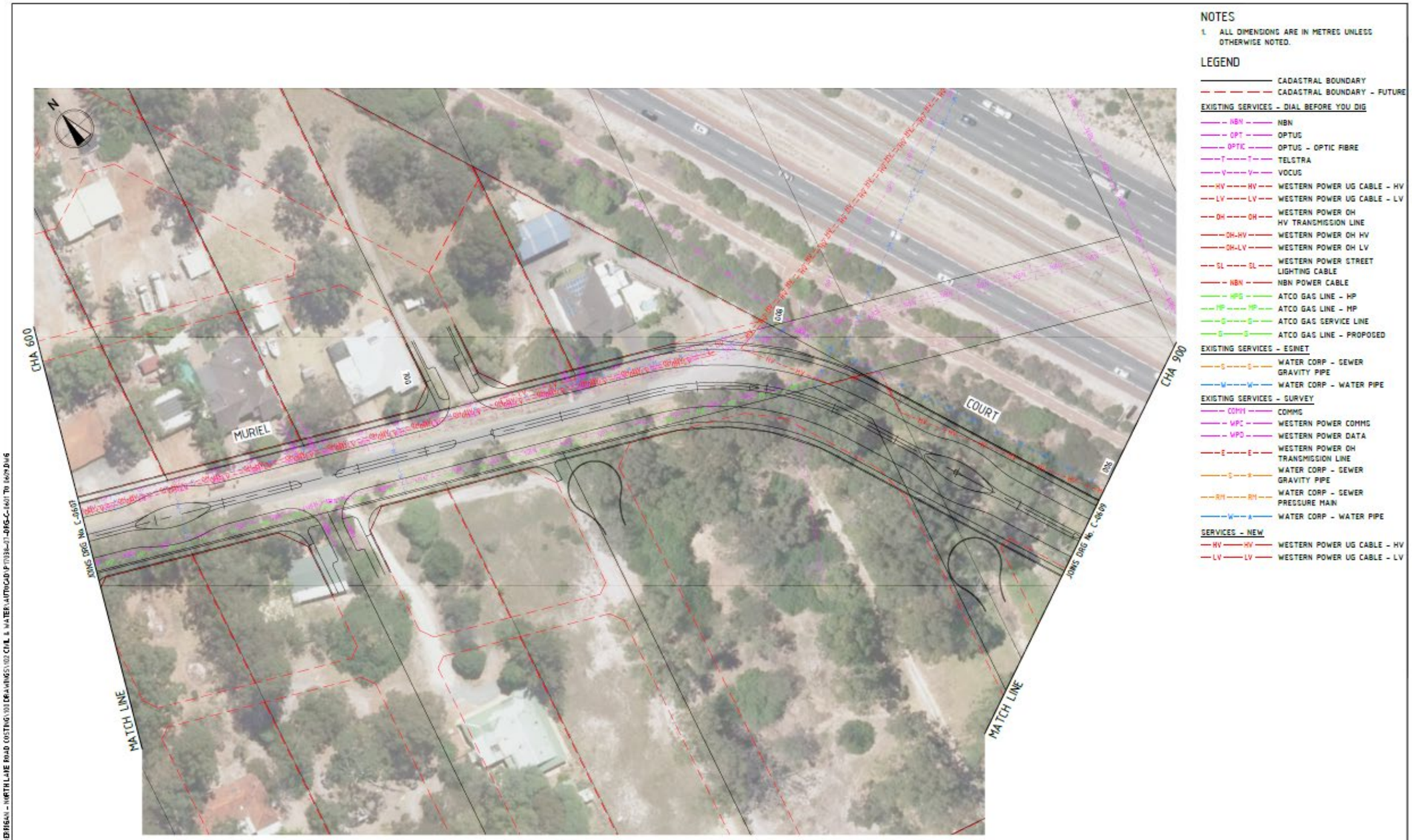
DRAWN	DESIGNED	CHECKED	APPROVED
JC	DW	CB/AH	CB

SCALE 1:500

SERVICES PLAN
MURIEL COURT
CHA 300 TO CHA 600

PROJECT No. P17038-07 | DRAWING No. C-0607 | REV A

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N
CHA 600
CHA 900
MURIEL
COURT
MATCH LINE
MATCH LINE
JOMS DRG No. C-0607
JOMS DRG No. C-0609
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
EXISTING SERVICES - DIAL BEFORE YOU DIG
NBN
OPT
OPTIC
T
V
HV
LV
OH
OH-HV
OH-LV
SL
NBN
MPG
MP
G
G
EXISTING SERVICES - EGINET
S
W
EXISTING SERVICES - SURVEY
COMM
WPC
WPD
E
S
RM
W
SERVICES - NEW
HV
LV
NBN OPTUS
OPTUS - OPTIC FIBRE
TELSTRA
VOCUS
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
WESTERN POWER OH HV TRANSMISSION LINE
WESTERN POWER OH HV
WESTERN POWER OH LV
WESTERN POWER STREET LIGHTING CABLE
NBN POWER CABLE
ATCO GAS LINE - HP
ATCO GAS LINE - MP
ATCO GAS SERVICE LINE
ATCO GAS LINE - PROPOGED
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - WATER PIPE
COMMS
WESTERN POWER COMMS
WESTERN POWER DATA
WESTERN POWER OH TRANSMISSION LINE
WATER CORP - SEWER GRAVITY PIPE
WATER CORP - SEWER PRESSURE MAIN
WATER CORP - WATER PIPE
WESTERN POWER UG CABLE - HV
WESTERN POWER UG CABLE - LV
PLAN
SCALE 1:500
SCALE 1:500 AT A1 SIZE
Perth Office
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
ISSUED FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION
SERVICES PLAN
MURIEL COURT
CHA 600 TO CHA 900
P17038-07
C-0608
A

NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND

- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE

EXISTING SERVICES - DIAL BEFORE YOU DIG

- NBN - NBN
- OPT - OPTUS
- OPTIC - OPTUS - OPTIC FIBRE
- T - TELSTRA
- V - VOCUS
- HV - WESTERN POWER UG CABLE - HV
- LV - WESTERN POWER UG CABLE - LV
- OH - WESTERN POWER OH HV TRANSMISSION LINE
- OH-HV - WESTERN POWER OH HV
- OH-LV - WESTERN POWER OH LV
- SL - WESTERN POWER STREET LIGHTING CABLE
- NBN - NBN POWER CABLE
- HPS - ATCO GAS LINE - HP
- MP - ATCO GAS LINE - MP
- G - ATCO GAS SERVICE LINE
- G - ATCO GAS LINE - PROPOSED

EXISTING SERVICES - ESNET

- S - WATER CORP - SEWER GRAVITY PIPE
- W - WATER CORP - WATER PIPE

EXISTING SERVICES - SURVEY

- COMM - COMMS
- WPC - WESTERN POWER COMMS
- WPD - WESTERN POWER DATA
- E - WESTERN POWER OH TRANSMISSION LINE
- S - WATER CORP - SEWER GRAVITY PIPE
- RM - WATER CORP - SEWER PRESSURE MAIN
- W - WATER CORP - WATER PIPE

SERVICES - NEW

- HV - WESTERN POWER UG CABLE - HV
- LV - WESTERN POWER UG CABLE - LV



PLAN
SCALE 1:500

0 5 10 15 20 25 30m
SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	CHK/AR
A	31/10/18	ISSUED TO CITY OF COCKBURN	CB/AR

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BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

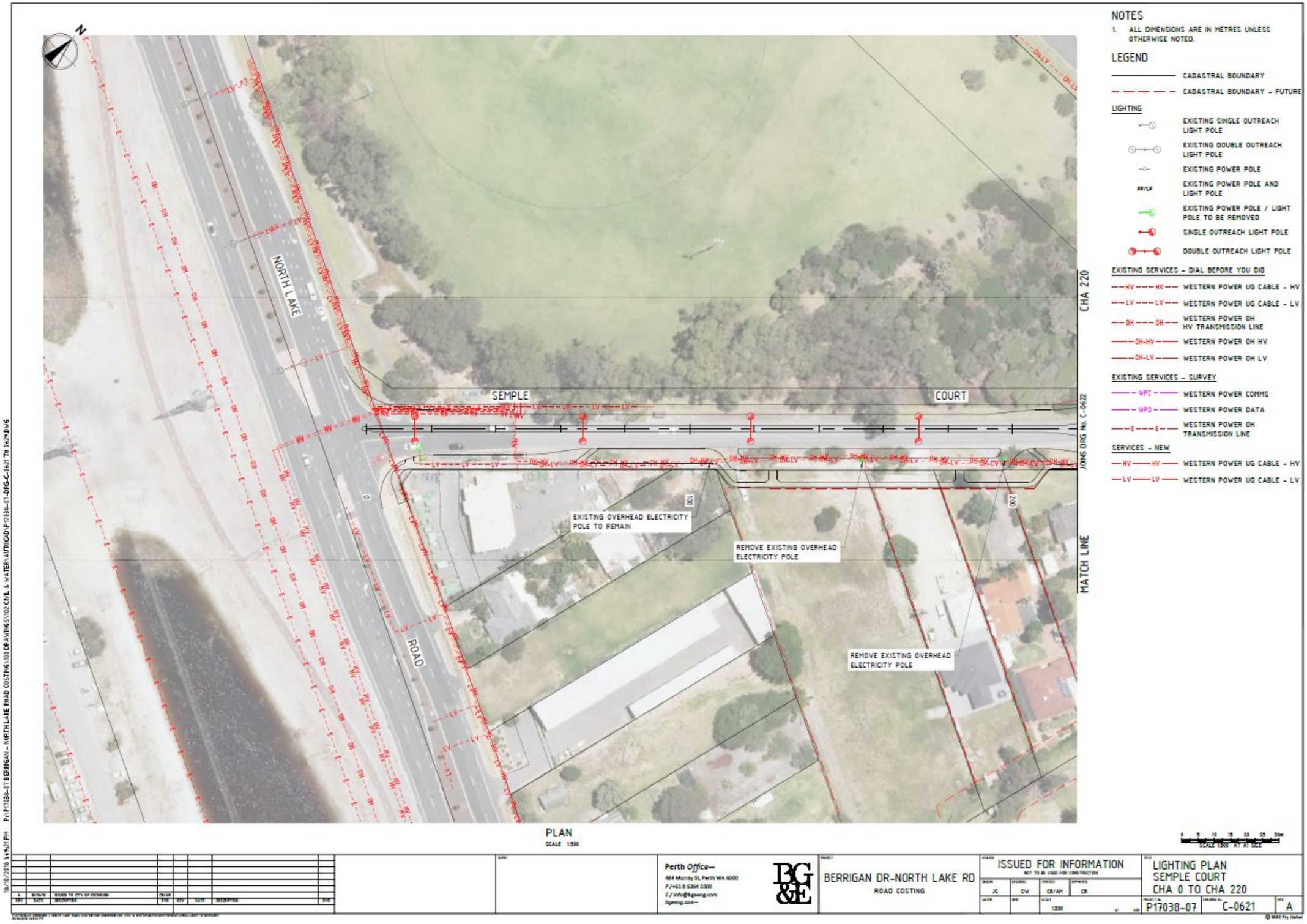
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NOT TO BE USED FOR CONSTRUCTION

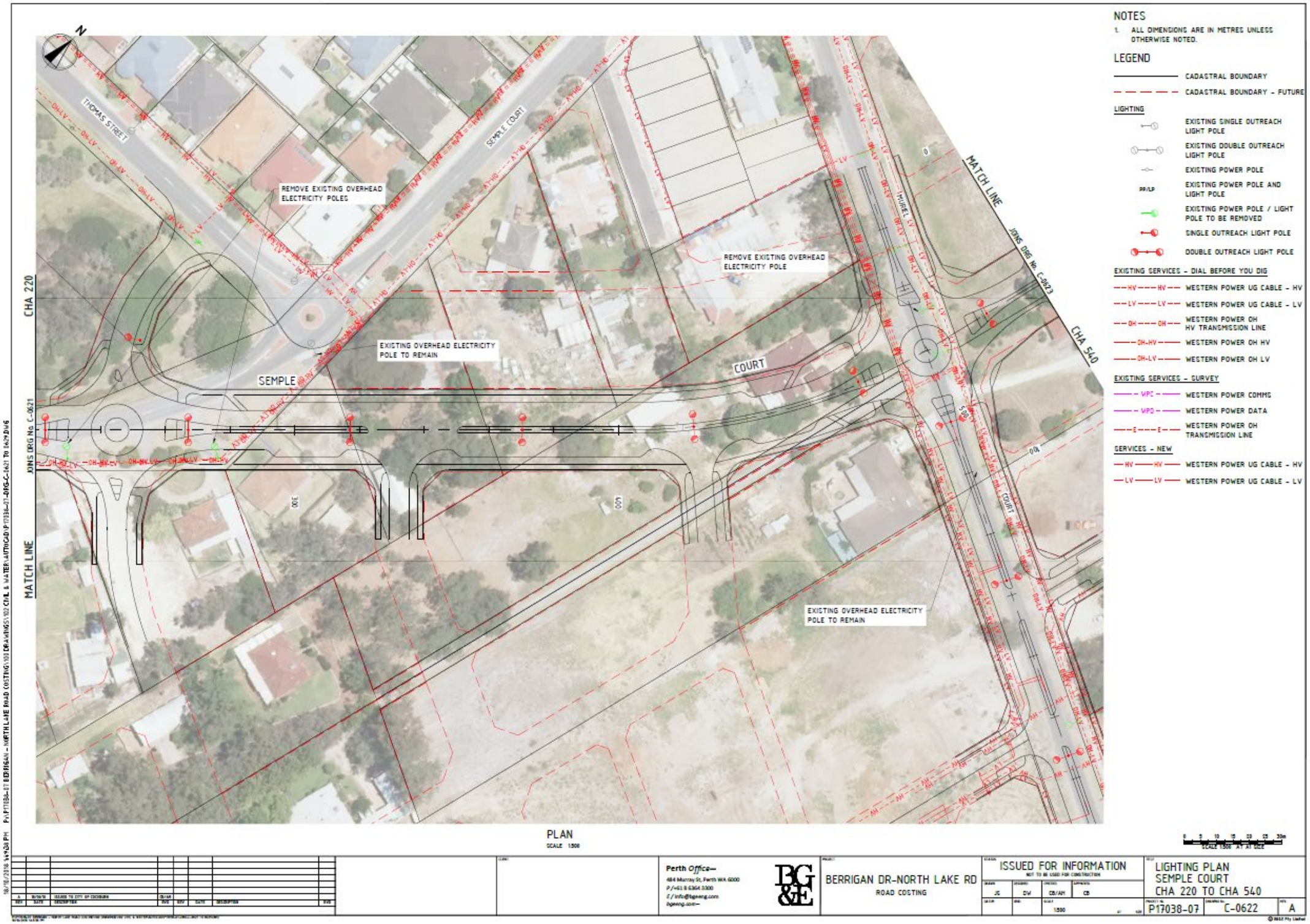
DRAWN	DESIGNED	CHECKED	APPROVED
JG	DW	CB/AH	CB

SCALE: 1:500 AT A1

SERVICES PLAN
MURIEL COURT
CHA 900 TO CHA 1220.714

PROJECT No. P17038-07 | DRAWING No. C-0609 | REV. A


N
NORTH LAKE
ROAD
SEMPLE
COURT
CHA 220
MATCH LINE
EXISTING OVERHEAD ELECTRICITY POLE TO REMAIN
REMOVE EXISTING OVERHEAD ELECTRICITY POLE
REMOVE EXISTING OVERHEAD ELECTRICITY POLE
PLAN
SCALE 1:500
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
LIGHTING
EXISTING SINGLE OUTREACH LIGHT POLE
EXISTING DOUBLE OUTREACH LIGHT POLE
EXISTING POWER POLE
PP/LP
EXISTING POWER POLE AND LIGHT POLE
EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
SINGLE OUTREACH LIGHT POLE
DOUBLE OUTREACH LIGHT POLE
EXISTING SERVICES - DIAL BEFORE YOU DIG
HV WESTERN POWER UG CABLE - HV
LV WESTERN POWER UG CABLE - LV
OH WESTERN POWER OH HV TRANSMISSION LINE
OH-HV WESTERN POWER OH HV
OH-LV WESTERN POWER OH LV
EXISTING SERVICES - SURVEY
WPC WESTERN POWER COMMS
WPD WESTERN POWER DATA
E WESTERN POWER OH TRANSMISSION LINE
SERVICES - NEW
HV WESTERN POWER UG CABLE - HV
LV WESTERN POWER UG CABLE - LV
JOINS DRG No. C-0622
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bgeeng.com
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NOT TO BE USED FOR CONSTRUCTION
LIGHTING PLAN
SEMPLE COURT
CHA 0 TO CHA 220
P17038-07
C-0621
A



PLAN
SCALE 1:500

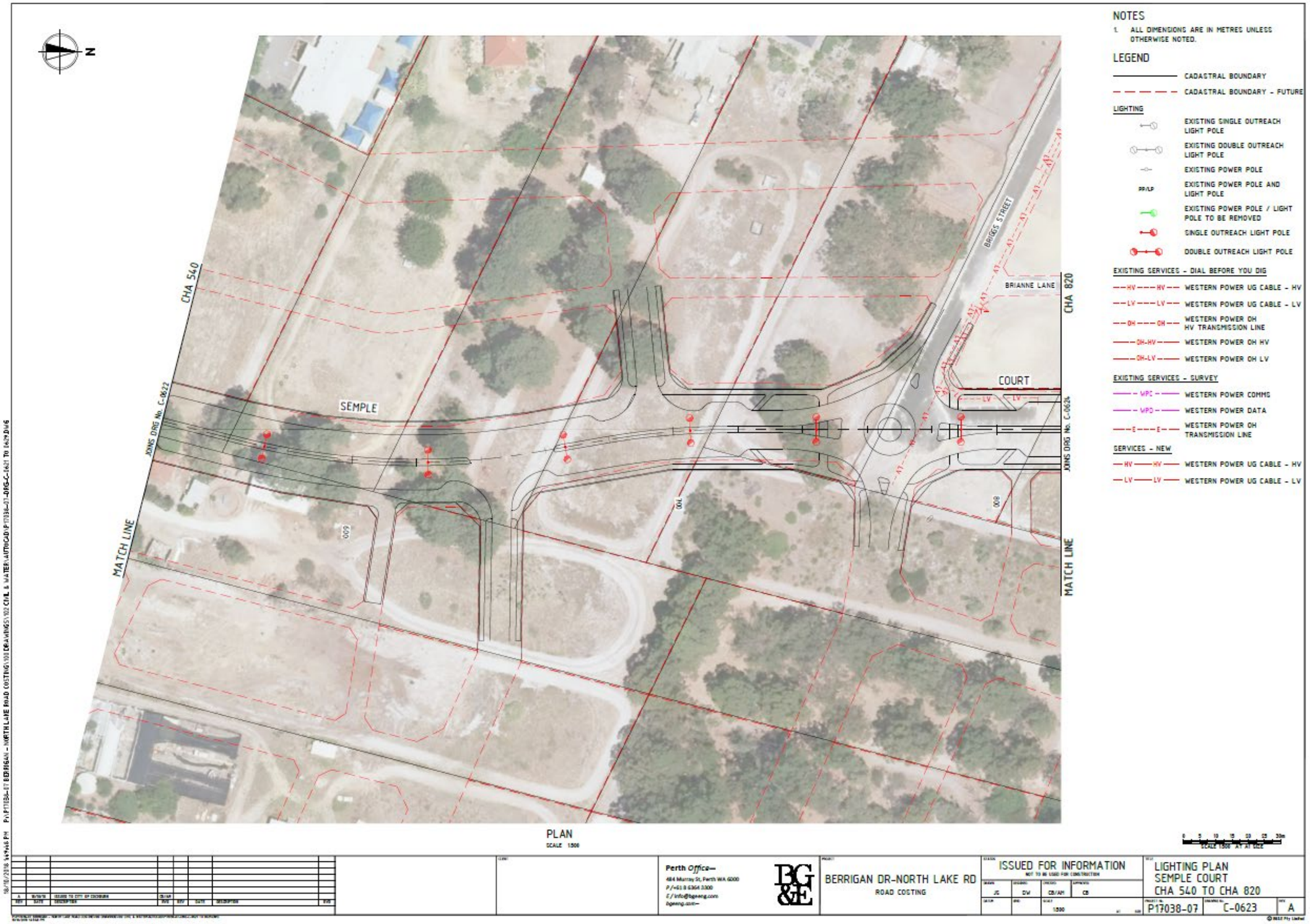
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BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

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LIGHTING PLAN
SEMPLE COURT
CHA 220 TO CHA 540

P17038-07 | C-0622 | A



PLAN
SCALE 1:500

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A	30/10/18	ISSUED TO CITY OF COCKBURN	DLM				

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ROAD COSTING

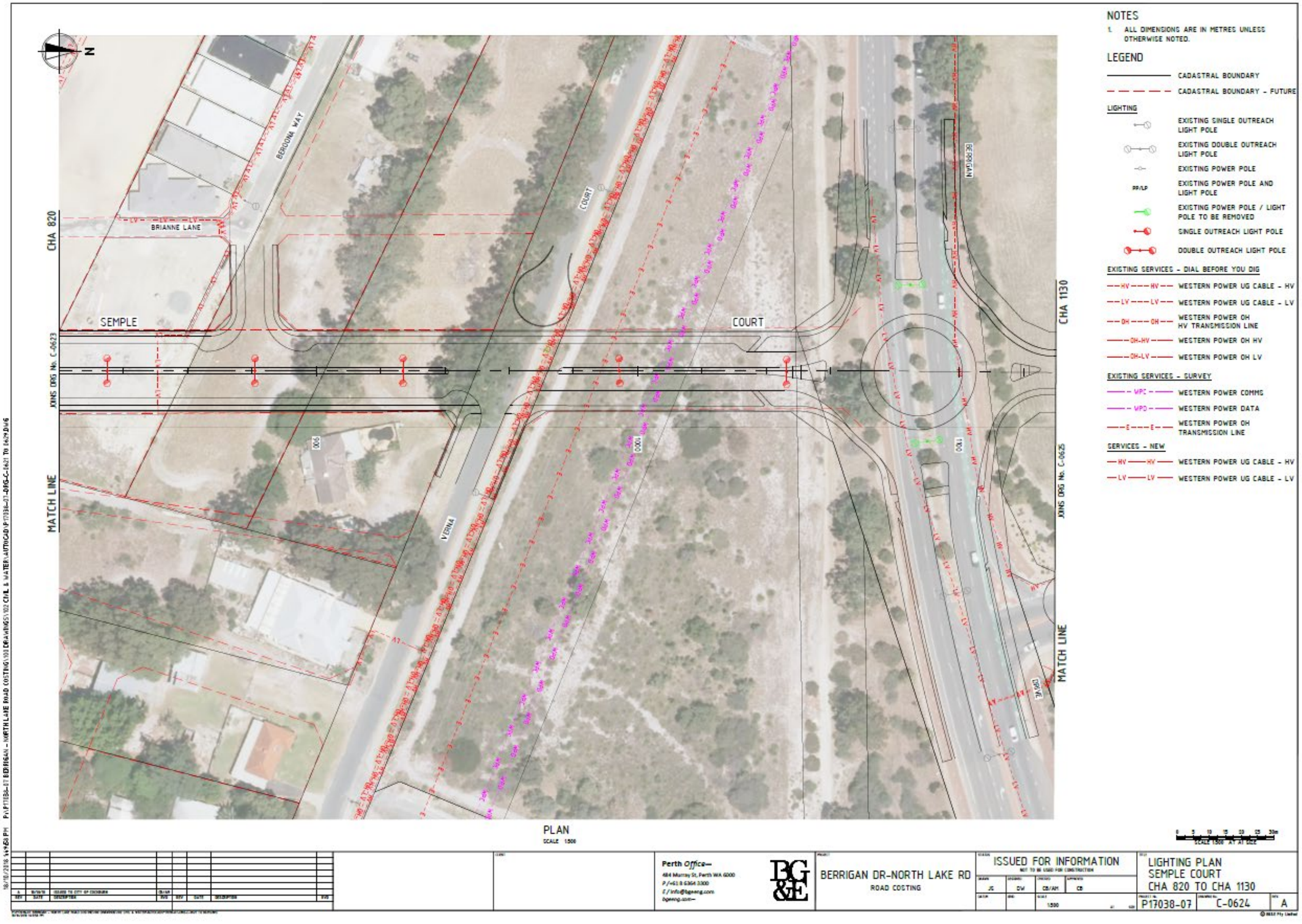
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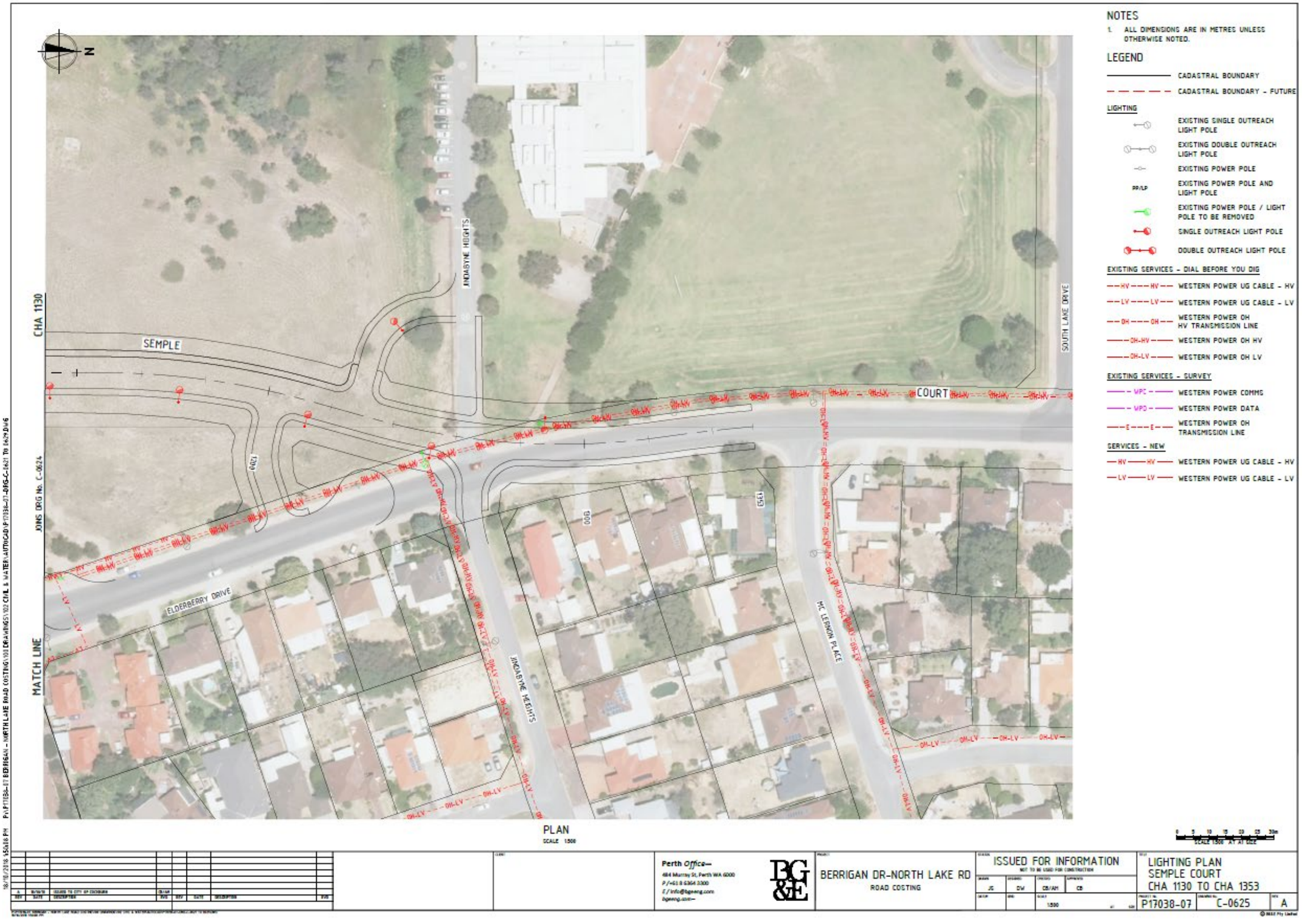
DRAWN	DESIGNED	CHECKED	APPROVED
JG	DW	CB/AH	CB

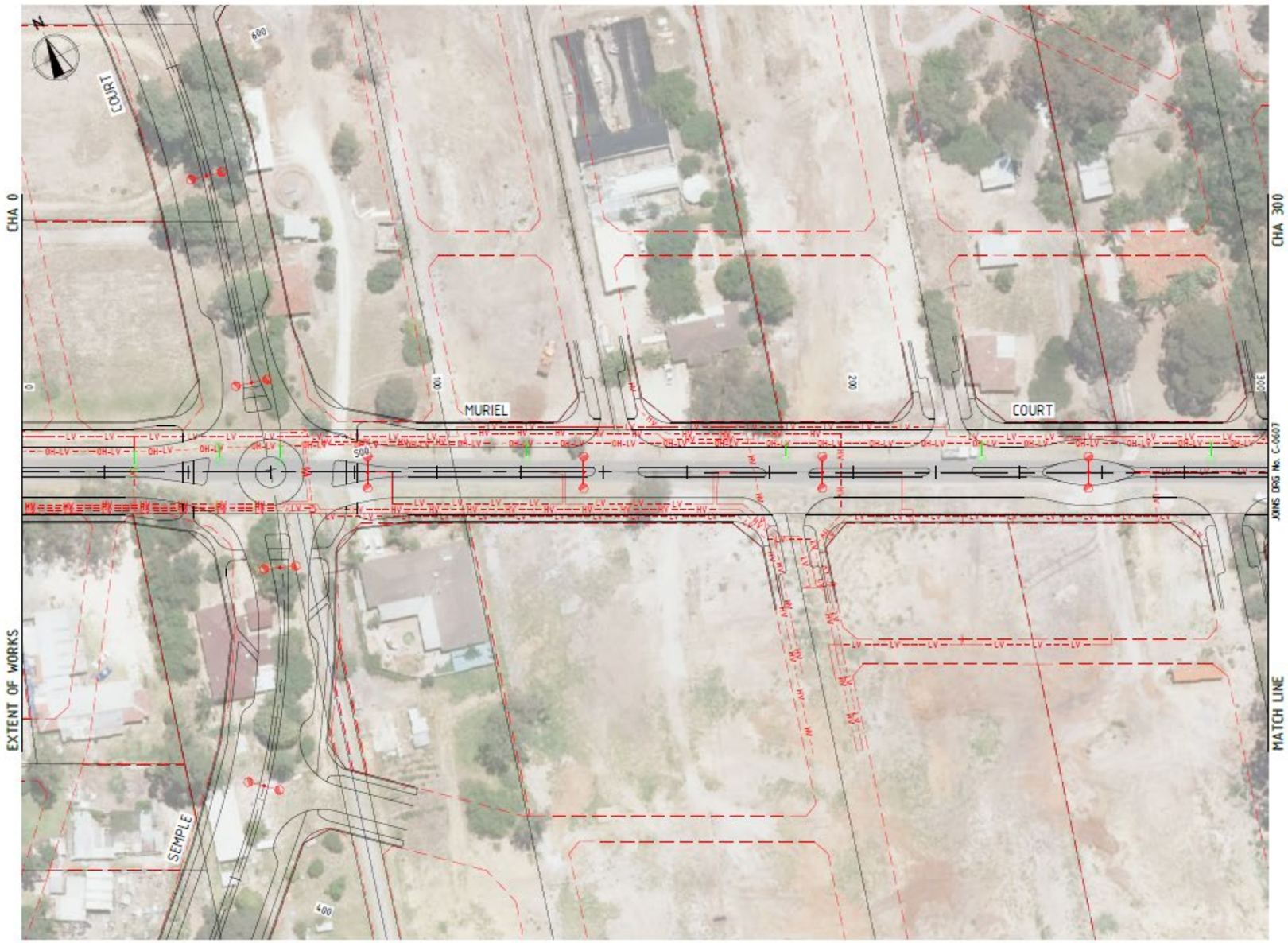
SCALE 1:500 @ A1

LIGHTING PLAN
SEMPLE COURT
CHA 540 TO CHA 820

PROJECT No. P17038-07 | DRAWING No. C-0623 | REV A


N
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING
BERDONA WAY
BRIANNE LANE
SEMPLE COURT
COURT
VERNA
MATCH LINE
CHA 820
CHA 1130
JOINS DRG No. C-0623
JOINS DRG No. C-0625
PLAN
SCALE 1:500
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
LIGHTING
EXISTING SINGLE OUTREACH LIGHT POLE
EXISTING DOUBLE OUTREACH LIGHT POLE
EXISTING POWER POLE
PP/LP
EXISTING POWER POLE AND LIGHT POLE
EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
SINGLE OUTREACH LIGHT POLE
DOUBLE OUTREACH LIGHT POLE
EXISTING SERVICES - DIAL BEFORE YOU DIG
HV HV WESTERN POWER UG CABLE - HV
LV LV WESTERN POWER UG CABLE - LV
OH OH WESTERN POWER OH HV TRANSMISSION LINE
OH-HV WESTERN POWER OH HV
OH-LV WESTERN POWER OH LV
EXISTING SERVICES - SURVEY
WPC WESTERN POWER COMMS
WPD WESTERN POWER DATA
E E WESTERN POWER OH TRANSMISSION LINE
SERVICES - NEW
HV HV WESTERN POWER UG CABLE - HV
LV LV WESTERN POWER UG CABLE - LV
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JG DW CB/AM CB
1:500
LIGHTING PLAN
SEMPLE COURT
CHA 820 TO CHA 1130
P17038-07
C-0624
A


N
CHA 1130
SEMPLE
COURT
LINDABYNE HEIGHTS
SOUTH LAKE DRIVE
ELDERBERRY DRIVE
MC LERNON PLACE
MATCH LINE
JOINS DRG No. C-0624
PLAN
SCALE 1:500
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
LIGHTING
EXISTING SINGLE OUTREACH LIGHT POLE
EXISTING DOUBLE OUTREACH LIGHT POLE
EXISTING POWER POLE
PP/LP
EXISTING POWER POLE AND LIGHT POLE
EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
SINGLE OUTREACH LIGHT POLE
DOUBLE OUTREACH LIGHT POLE
EXISTING SERVICES - DIAL BEFORE YOU DIG
HV WESTERN POWER UG CABLE - HV
LV WESTERN POWER UG CABLE - LV
OH WESTERN POWER OH HV TRANSMISSION LINE
OH-HV WESTERN POWER OH HV
OH-LV WESTERN POWER OH LV
EXISTING SERVICES - SURVEY
MPC WESTERN POWER COMMS
MPD WESTERN POWER DATA
E WESTERN POWER OH TRANSMISSION LINE
SERVICES - NEW
HV WESTERN POWER UG CABLE - HV
LV WESTERN POWER UG CABLE - LV
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LIGHTING PLAN
SEMPLE COURT
CHA 1130 TO CHA 1353
P17038-07
C-0625
A



PLAN
SCALE 1:500

NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND

CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE

LIGHTING
EXISTING SINGLE OUTREACH LIGHT POLE
EXISTING DOUBLE OUTREACH LIGHT POLE
EXISTING POWER POLE
PP/LP EXISTING POWER POLE AND LIGHT POLE
EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
SINGLE OUTREACH LIGHT POLE
DOUBLE OUTREACH LIGHT POLE

EXISTING SERVICES - DIAL BEFORE YOU DIG
HV WESTERN POWER UG CABLE - HV
LV WESTERN POWER UG CABLE - LV
OH WESTERN POWER OH HV TRANSMISSION LINE
OH-HV WESTERN POWER OH HV
OH-LV WESTERN POWER OH LV

EXISTING SERVICES - SURVEY
WPC WESTERN POWER COMMS
WPD WESTERN POWER DATA
E WESTERN POWER OH TRANSMISSION LINE

SERVICES - NEW
HV WESTERN POWER UG CABLE - HV
LV WESTERN POWER UG CABLE - LV

REV	DATE	DESCRIPTION	DR/AR	REV	DATE	DESCRIPTION	RVS
A	15/10/18	ISSUED TO CITY OF ESPERANCE	CB/AR				

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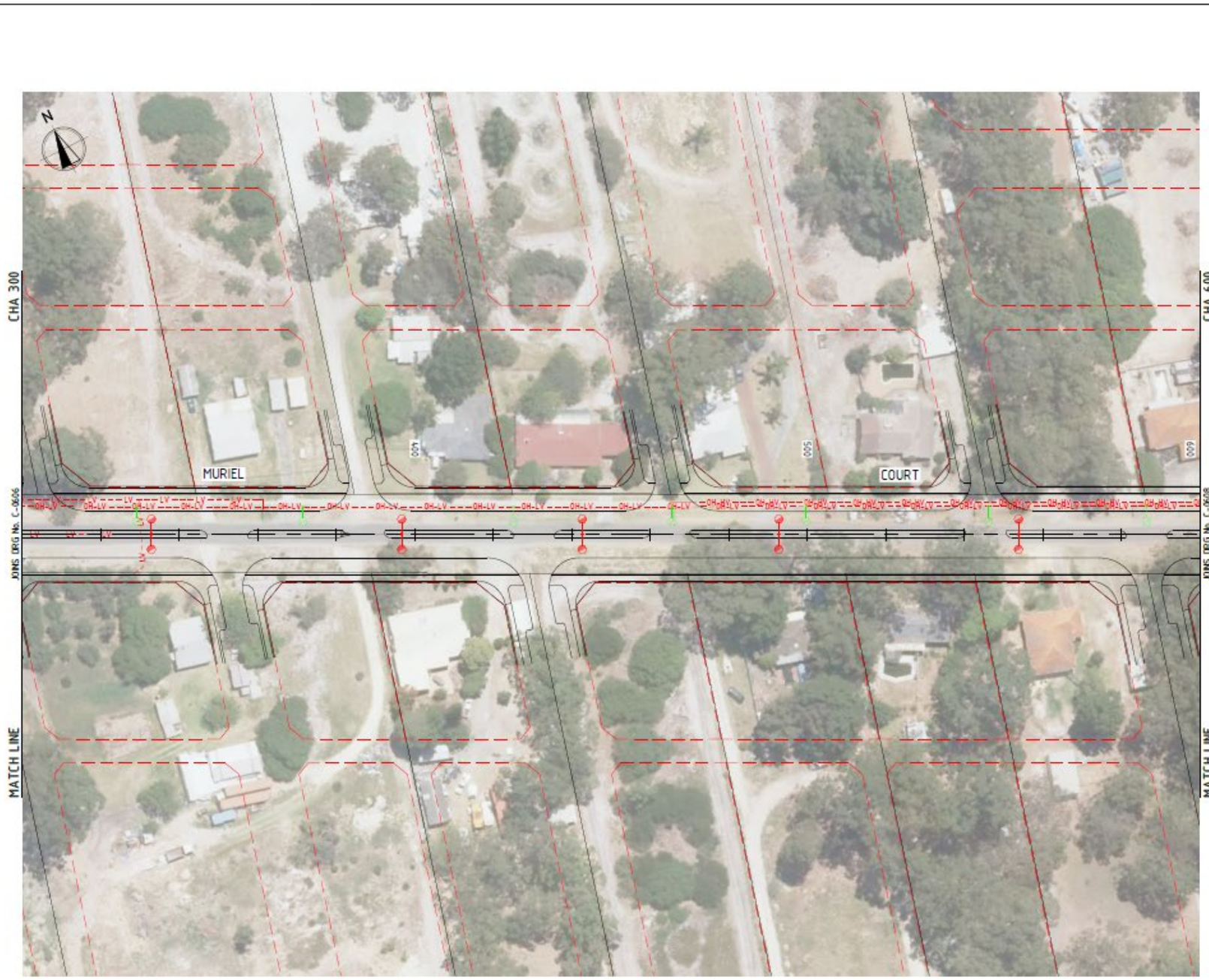
DESIGN	DRAWN	PROJECT	APPROVED
JC	DW	CB/AH	CB

DATUM	ORIG.	SCALE
		1:500

LIGHTING PLAN
MURIEL COURT
CHA 0 TO CHA 300

PROJECT No. P17038-07 | DRAWING No. C-0626 | REV. A

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NOTES

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LEGEND

- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE

LIGHTING

- EXISTING SINGLE OUTREACH LIGHT POLE
- EXISTING DOUBLE OUTREACH LIGHT POLE
- EXISTING POWER POLE
- PP/LP EXISTING POWER POLE AND LIGHT POLE
- EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
- SINGLE OUTREACH LIGHT POLE
- DOUBLE OUTREACH LIGHT POLE

EXISTING SERVICES - DIAL BEFORE YOU DIG

- HV HV WESTERN POWER UG CABLE - HV
- LV LV WESTERN POWER UG CABLE - LV
- OH OH WESTERN POWER OH HV TRANSMISSION LINE
- OH-HV WESTERN POWER OH HV
- OH-LV WESTERN POWER OH LV

EXISTING SERVICES - SURVEY

- WPC WESTERN POWER COMMS
- WPD WESTERN POWER DATA
- E E WESTERN POWER OH TRANSMISSION LINE

SERVICES - NEW

- HV HV WESTERN POWER UG CABLE - HV
- LV LV WESTERN POWER UG CABLE - LV

PLAN
SCALE 1:500

SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	DRAWN	CHECKED
A	8/10/19	ISSUED TO CITY OF COCKBURN	DW/AH	CB

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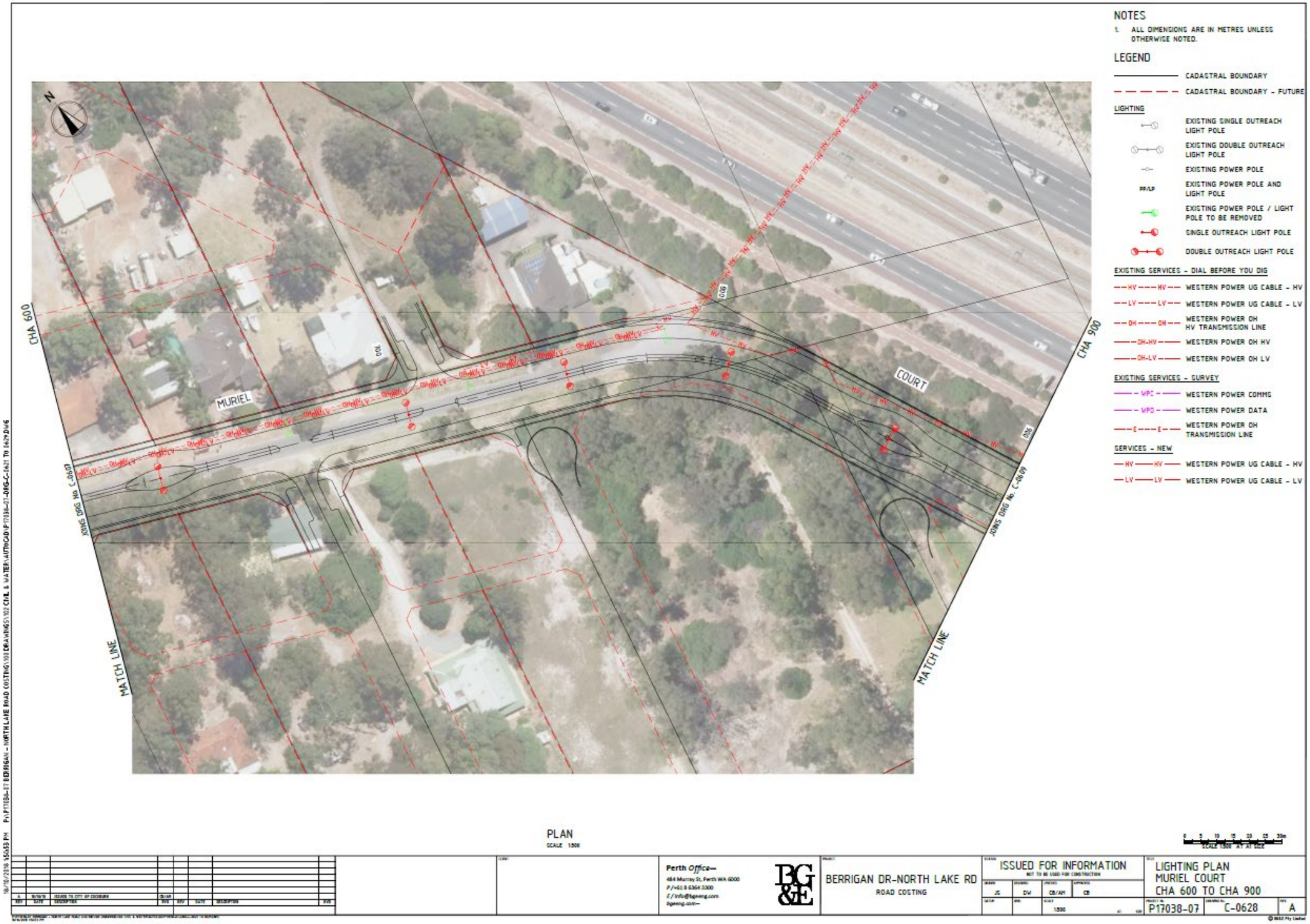
BERRIGAN DR-NORTH LAKE RD
ROAD COSTING

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N
CHA 600
CHA 900
MURIEL
COURT
JOINS DRG No. C-0607
JOINS DRG No. C-0609
MATCH LINE
MATCH LINE
NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
LEGEND
CADASTRAL BOUNDARY
CADASTRAL BOUNDARY - FUTURE
LIGHTING
EXISTING SINGLE OUTREACH LIGHT POLE
EXISTING DOUBLE OUTREACH LIGHT POLE
EXISTING POWER POLE
PP/LP
EXISTING POWER POLE AND LIGHT POLE
EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
SINGLE OUTREACH LIGHT POLE
DOUBLE OUTREACH LIGHT POLE
EXISTING SERVICES - DIAL BEFORE YOU DIG
HV
WESTERN POWER UG CABLE - HV
LV
WESTERN POWER UG CABLE - LV
OH
WESTERN POWER OH HV TRANSMISSION LINE
OH-HV
WESTERN POWER OH HV
OH-LV
WESTERN POWER OH LV
EXISTING SERVICES - SURVEY
WPC
WESTERN POWER COMMS
WPD
WESTERN POWER DATA
E
WESTERN POWER OH TRANSMISSION LINE
SERVICES - NEW
HV
WESTERN POWER UG CABLE - HV
LV
WESTERN POWER UG CABLE - LV
PLAN
SCALE 1:500
0 5 10 15 20 25 30m
SCALE 1:500 AT A1 SIZE
A 18/10/18 ISSUED TO CITY OF ESPERANCE CB/AH
REV DATE DESCRIPTION DRN REV DATE DESCRIPTION CHK
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ROAD COSTING
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DRAWN JG
DESIGNED DW
CHECKED CB/AH
APPROVED CB
DATE 18/10/18
SCALE 1:500 at A1
LIGHTING PLAN
MURIEL COURT
CHA 600 TO CHA 900
PROJECT No. P17038-07
DRAWING No. C-0628
REV A
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18/10/2018 10:03:59 PM P:\P17038-07 BERRIGAN - NORTH LAKE ROAD COSTING\V03 DRAWINGS\102 Civil & WATER\AUTOCAD\P17038-07-DRG-C-0621 TO 0629.DWG

NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND

- CADASTRAL BOUNDARY
- CADASTRAL BOUNDARY - FUTURE

LIGHTING

- EXISTING SINGLE OUTREACH LIGHT POLE
- EXISTING DOUBLE OUTREACH LIGHT POLE
- EXISTING POWER POLE
- PP/LP EXISTING POWER POLE AND LIGHT POLE
- EXISTING POWER POLE / LIGHT POLE TO BE REMOVED
- SINGLE OUTREACH LIGHT POLE
- DOUBLE OUTREACH LIGHT POLE

EXISTING SERVICES - DIAL BEFORE YOU DIG

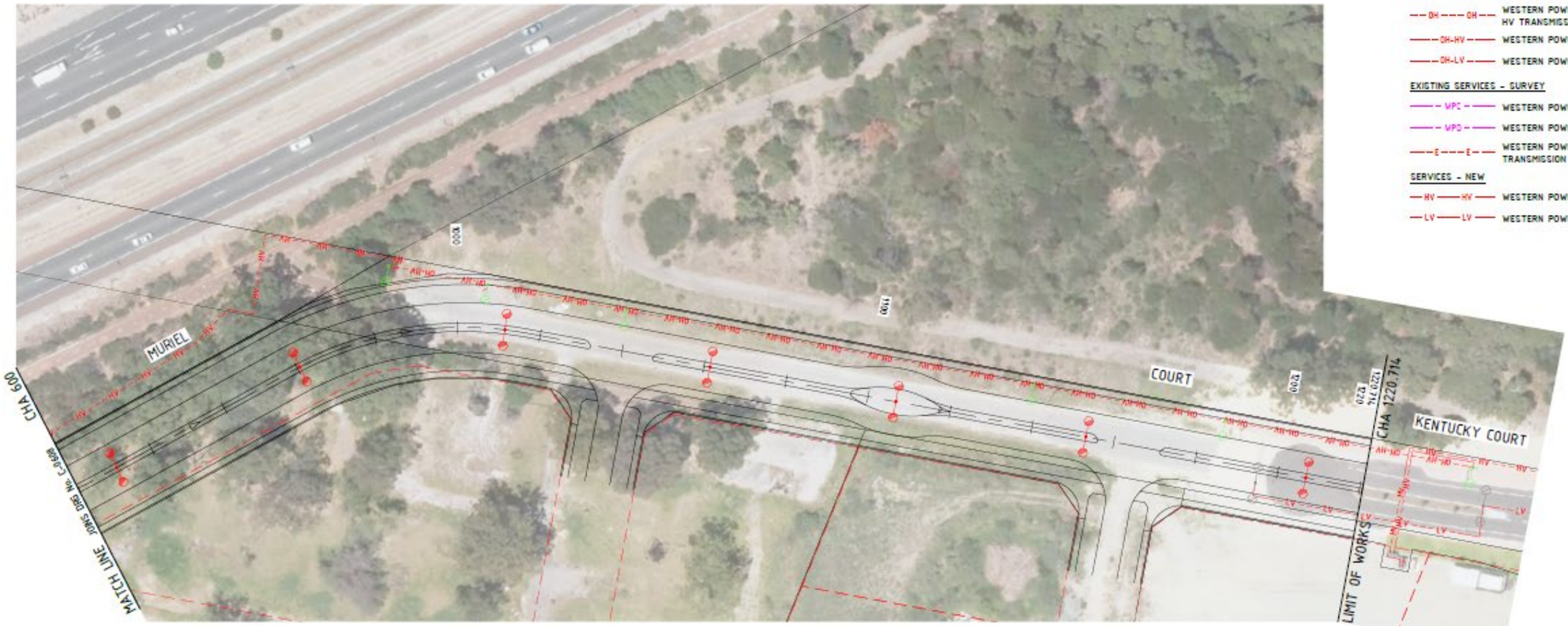
- HV HV WESTERN POWER UG CABLE - HV
- LV LV WESTERN POWER UG CABLE - LV
- OH OH WESTERN POWER OH HV TRANSMISSION LINE
- OH-HV WESTERN POWER OH HV
- OH-LV WESTERN POWER OH LV

EXISTING SERVICES - SURVEY

- WPC WESTERN POWER COMMS
- WPD WESTERN POWER DATA
- E E WESTERN POWER OH TRANSMISSION LINE

SERVICES - NEW

- HV HV WESTERN POWER UG CABLE - HV
- LV LV WESTERN POWER UG CABLE - LV



PLAN
SCALE 1:500

REV	DATE	DESCRIPTION	CH/AR	REV	DATE	DESCRIPTION	CH/AR
A	18/10/19	ISSUED TO CITY OF COCKBURN	CH/AR				

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JG	DW	CB/AH	CB

SCALE 1:500

LIGHTING PLAN
MURIEL COURT
CHA 900 TO CHA 1220.714

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