



PLANNING & ENVIRONMENT ACT 1987

135-235 Austin Street Minchels as with the requirem

Infrastructure Servicing 43.04 of the Surf Coast Planning Scheme

Assessment

Approval Number: PG19/0086 Date: 4/08/2021 Sheet No: 1 of 20

Ref No: 17797-02 Digitally Signed by the Responsible Authority

Prepared For: Anthony Robert Grant Pty Ltd Karen Hose

Due: September 2019 THIS IS NOT A BUILDING



Contact Information Document Information

TGM Group Pty Ltd Prepared for Anthony Robert Grant Pty Ltd

(a Cardno Company) **Proposal Name** 135-235 Austin Street, Winchelsea ABN 11 125 568 461

File Reference 17797-02 ISA Report 2020.10.14 27-31 Myers Street

135-235 Austin St P.O Box 1137

Winchelsea.docx Geelong Victoria 3220

Australia Job Reference 17797-02

www.cardno.com Date 16 October 2020

Phone 5202 4600 Version Number

Fax 5202 4691

Author(s)

Joel Guthrie Effective Date 19 September 2019

Civil Engineer

Approved By

Ben Johnson Date Approved 19 September 2019

Project Manager

Document History

Version	Effective Date	Description of Revision	Prepared by	Reviewed by
1	19/09/2019	Infrastructure Servicing Assessment	J. Guthrie	B. Johnson
2	12/05/2020	Updated ODP	J. Guthrie	B. Johnson
3	14/10/2020	Updated ODP	J. Guthrie	B. Johnson

PLANNING & ENVIRONMENT ACT 1987

SURF COAST PLANNING SCHEME

This Development Plan complies with the requirements of Clause 43.04 of the Surf Coast Planning Scheme

Front Cover Image - 135-235 Austin Street Winchelsea (Courtesy Apprendiate) umber: PG19/0086

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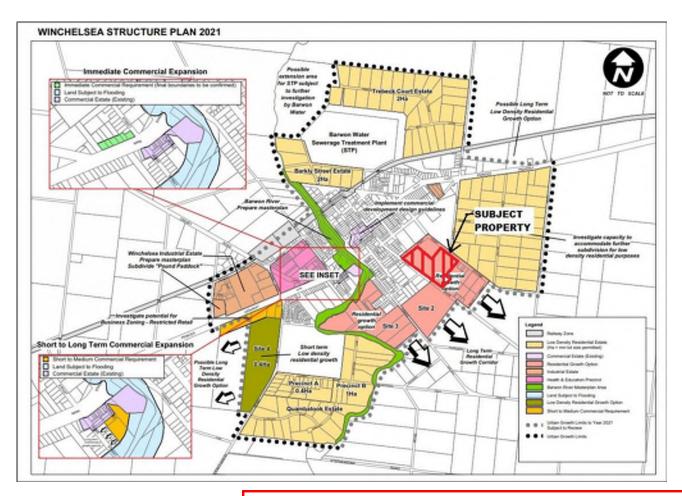


Introduction 1

This Infrastructure Servicing Assessment (ISA) has been prepared at the request of Anthony Robert Grant Pty Ltd, to show a high-level servicing strategy and advice for the proposed subdivision at 135-235 Austin Street, Winchelsea. This report is to be used to support the planning permit application by addressing the infrastructure servicing requirements associated with the subdivision of this property.

1.1 **Existing Conditions and Locations**

The subject property being; 135-235 Austin Street is a part of the Winchelsea growth area outline development plan, refer to the Winchelsea Structure Plan 2021 in Figure 1-1. Winchelsea is apart of the G21 Geelong Regional Plan and Great Ocean Road Region Strategy. This strategy promotes development in this area of Winchelsea in a south-easterly direction which includes this subject property.



Winchelsea Structure Plan 2021 Figure 1-1

PLANNING & ENVIRONMENT ACT 1987

The subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of rural farmland of the subject property is approximately 9.9ha of the subject propert with no buildings or structures present This Revelopment Planvocomplies with the requirements of Clause Stephenson Street to the north-west, Austin Street to 4804 out the Sulft Coast Planning Seleme-east. Council has previously purchased the southern corner of the site for the construction of a second sporting oval adjacent to Eastern Reserve with a proposal to close SApphoneah NSumber: be 64/0086

The surrounding roads are sealed rural roads with open drains either side with the western section of Austin Street having some sections of kerb and channel on the southern side of the road.

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Karen Hose



A ridgeline runs from the east to west through the subject site with a high point towards the western side. A section of Low lying land, which is prone to holding water, extend into the property from the Austin Street / Batson Street intersection with a majority of the land falling towards this intersection with remaining pockets falling out in towards Witcombe Street and either end of Austin Street.

The site also contains an area surround by large trees, mostly pine trees, which was used as a night soil fill site. This area is proposed to be developed into medium density residential under a separate planning permit application at a later date.



Figure 1-2 135-235 Austin Street – Locality Plan

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Overall Development Plan 2

The Overall Development Plan (ODP) includes 126 lots, not including the proposed medium density residential that is proposed at a later date, refer Figure 2-1. It also proposed to have a drainage reserve fronting Austin Street, which has been conceptually sized and detailed in Site Stormwater Management Plan (SSMP) (Refer TGM 17797-03).



Figure 2-1 Overall Development Plan

The site is proposed to have a main collector road, 20m wide, that connects Gladman Street to Austin Street, with six other intersections proposed to connect to the surrounding streets.

Servicing 3

3.1 Access

specified by council.

3.2 **Drainage**

Direct access to the site can be made form the surrounding New Gese Fresh Pastin Ethert, Stephenson Street and Witcombe Street. As part of the development, with sections will be what the section of road reserves. Temporary turnarounds whits programment plans complies with the sagictive mants of Clause public turn around during construction of roads. The temperative and the south Go and belonging acchesines as

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Refer CardnoTGM SSMP (Reference 17797-03) for drainage system and basin proposal. Digitally Signed by the Responsible Authority Karen Hose



3.3 Sewer

Servicing advice from Barwon Water has advises that sewer for the proposed development can connect to three (3) existing gravity sewers located to the west, south and north of the development as follows;

- 1. The connection to the south is an existing sewer manhole located in the road reserve approximately 130m from intersection of Austin and Baston Street.
- 2. The connection to the west is an existing sewer manhole located along within the back of a property fronting Austin Street. Connecting to this manhole can propose challenges for construction and is not general recommended as access and an easement would be required through the existing property.
- 3. The connection in the north is an existing manhole located within the north west corner of Eastern Reserve. To connect to this manhole sewer would have to be constructed north-west along Witcombe Street into Hopkins Street to the existing sewer where a new manhole would need to be constructed on existing line.

Barwon Water within their servicing advice suggested that the north-eastern portion of the subdivision, the lots fronting Witcombe street may be difficult to command with the existing gravity sewer. They propose that a new sewerage pump station or low-level pressure sewer may be required to control these lots.

Based on the servicing advice stated above a concept design was undertaken that confirms that the proposed development can be controlled by gravity back to the existing connection points, in lieu of a sewer pump station or pressure system.

As shown below in Figure 3.1 the sewer is spilt into two sections, one portion of the sewer is out falling to the proposed connection in Baston Street. The other portion of sewer is proposed to outfall along Witcombe Street and Hopkins Street to reach the connection to the sewer in Hopkins Street. Further survey is required to ensure levels of the existing surface along Witcombe street allow the sewer to be constructed in accordance with Barwon Water Standards.

Refer to Barwon Water's 135 Austin Street Winchelsea - Servicing Advice in appendix B





3.4 Potable Water

Potable water is available via an existing 150mm PVC/AC main in Austin Street, 150mm AC main in Stephenson Street and a 100mm PVC main west of the development in Witcombe Street which can provide supply for the entire development.

Barwon Water will require the internal potable water network connected to all the existing watermains to provide security of water supply and improve water quality. The 100mm PVC main in Witcombe Street would need to be extended across the frontage of the development to service properties in this vicinity and connect to the internal potable water network.

Refer to Barwon Water's 135 Austin Street Winchelsea - Servicing Advice in appendix B

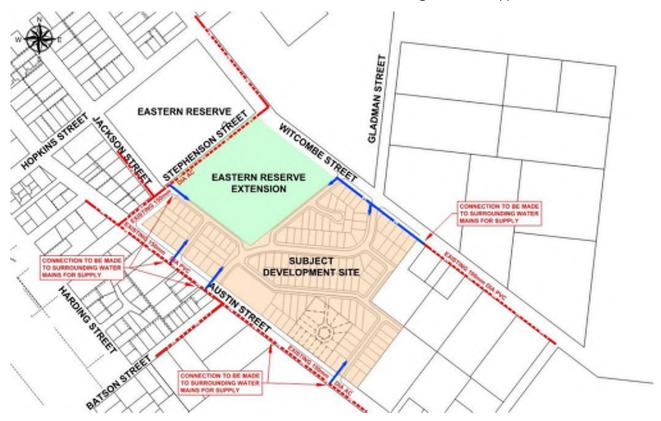


Figure 3-2 Proposed Water Main Connections

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3.5 Electricity

The subject property can be serviced from the two existing electrical poles, one located in Batson Street (approximately 100m south of Austin Street), the second pole is located in Witcombe Street on the south side of the Gladman Street intersection. This pole may need relocation to create clearance to the proposed intersection works. These connections will provide High Voltage (HV) power to internal electrical kiosks and converted to Low Voltage (LV) for an internal distribution network for the proposed properties.

It should be noted that further discussions with Powercor should be had as the servicing proposals provided are based off a previous ODP and staging plan but concepts would be similar.

Refer to Powercor Concept HV and LV Servicing Layout in appendix C

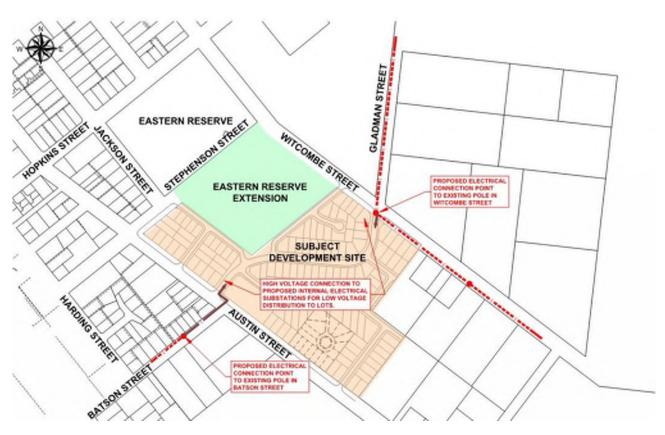


Figure 3-3 Proposed and Existing Electrical Services

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3.6 Gas

In 2016 Winchelsea was connected to natural gas as part of the Regional Gas Infrastructure program by AusNet Gas Services. There is currently an existing gas service towards the western side of the development in Austin Street and Stephenson Street that may be able to service the proposed development.

Further discussion will be required with AusNet Gas Services to understand any potential or further network upgrades or costs.

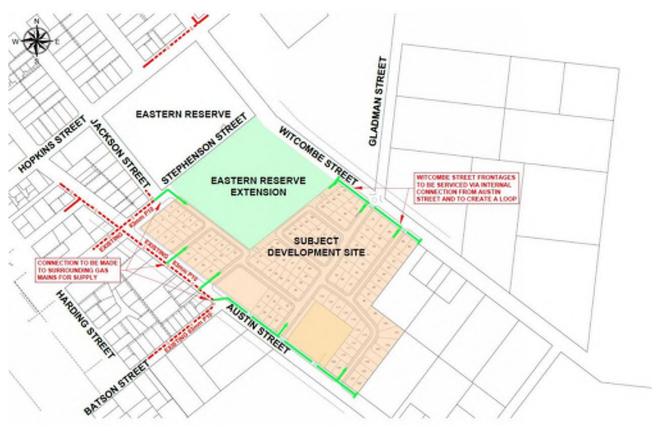


Figure 3-4 Existing Gas Main Locations and Proposed Connections

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3.7 Telecommunications

The subject property is located in Winchelsea which is part of the National Broadband Network's (NBN) network expansion. Existing NBN cables have been identified towards the western side of the development in Austin Street and Stephenson Street. There are also existing Telstra conduits that can be utilised by NBN surrounding the development. It is proposed that the cables within the development connect to the existing NBN infrastructure present to the west in the neighbouring streets.

Other private telecommunication service providers are also options but they are not indicated to be in the area.

Further discussions will be required with the individual telecommunication service providers to understand any potential or further costs.

Refer to NBN Feasibility Letter in appendix D

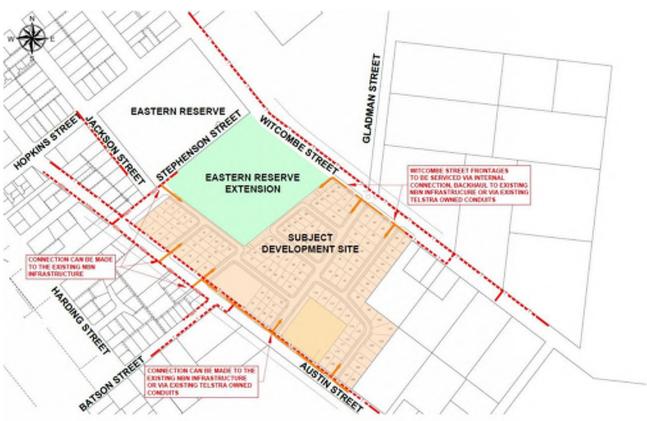


Figure 3-5 Existing and Proposed Telecommunications Cables

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Appendix A – Overall Development Plan

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Appendix B – Barwon Water Servicing Advice

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Our Ref: L007463

Enquiries To: Yves Nininahazwe - Telephone 1300 656 007

1 March 2018

TGM Group Ben Johnson

Via email: benj@tgmgroup.com

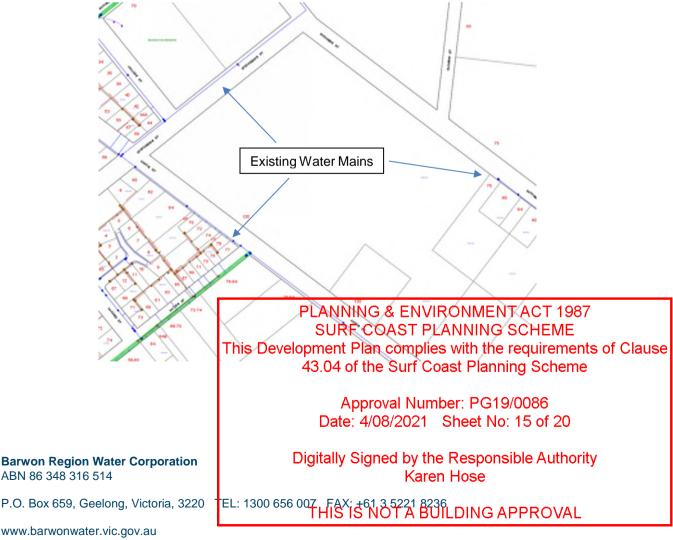
Dear Ben.

RE: 135 AUSTIN STREET WINCHELSEA - SERVICING ADVICE

I write in response to your email request dated 7/02/2018 seeking water and sewer servicing advice for land at 135 Austin Street, Winchelsea. This servicing advice is considered 'preliminary advice' and based on information provided by you. Barwon Water will confirm requirements with any response to planning permit referral or application for costs and conditions.

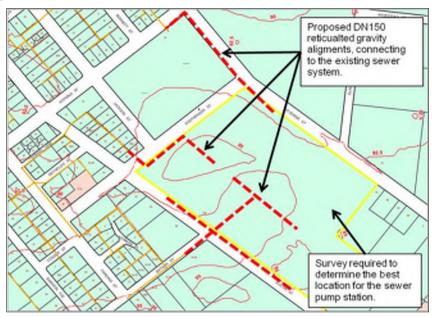
Water

Water supply for the proposed development can be provided from the existing system. Initial development of the west corner of the site (cnr Austin and Stephenson Street) has direct frontage to water mains (see plan below). Lots fronting these streets can directly connect to existing water mains but would require road crossings. A lot layout plan is required to determine where new water mains through the development may connect to. Barwon Water requires connections to all surrounding water mains, where possible, to provide security of water supply and improve water quality.



Sewer

The development can connect to existing 150mm gravity sewers located west, south and north of the land (as shown below) -



New reticulated DN150 gravity sewers can be extended to service this land from these sewer mains. The land fronting Witcombe Street may be difficult to fully command from extension of existing reticulation sewers. This land could be serviced by a new sewerage pump station or alternatively a low level pressure sewer system. A proposed location for the sewer pump station is not clear as there is no defined land fall in any one direction. Furthermore, the choice of a pressure system will be dependent on the installation and operation costs over the assets life.

Barwon Water recommends a land survey to determine the most appropriate and cost effective location for the sewer pump station to service lots on this location. The rising main can discharge into the new or existing discharge points, as shown in the above plan.

Should you have any further gueries please do not hesitate to contact the nominated officer listed above.

Yours faithfully,

Steven Wallner Land Development Coordinator Infrastructure Delivery

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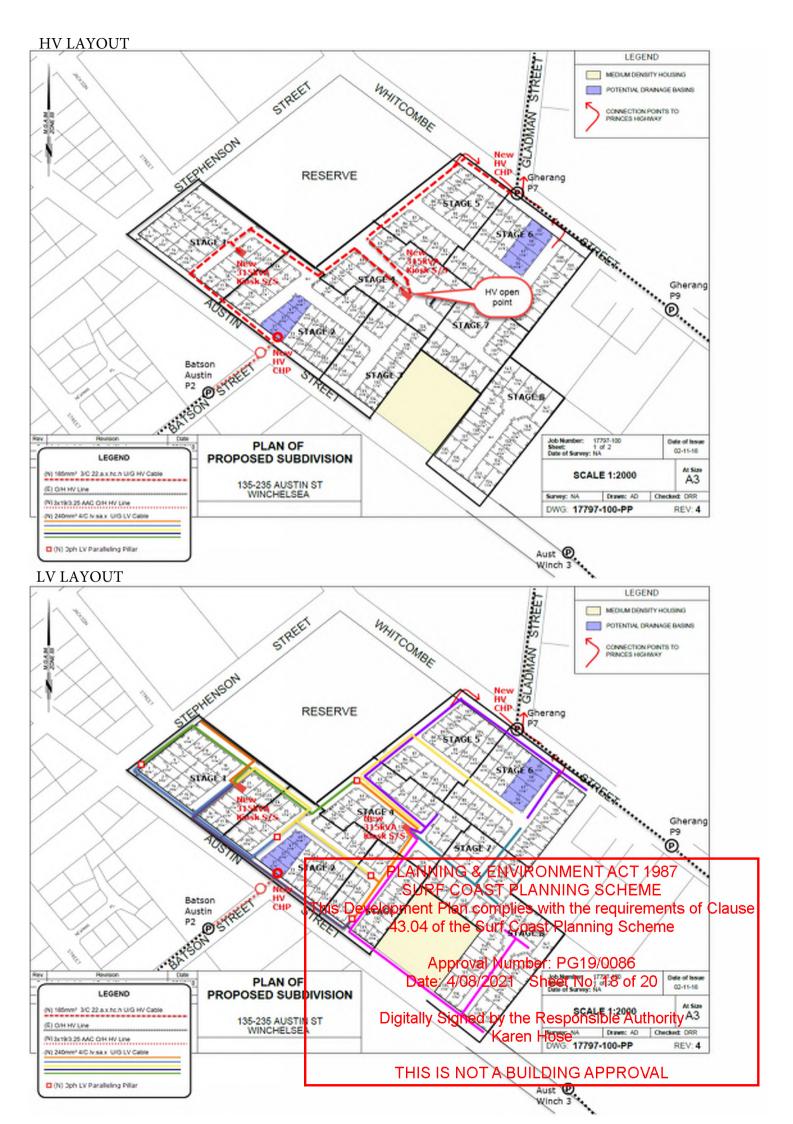


Appendix C – Powercor Concept HV and LV Servicing Layout

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Appendix D – NBN Feasibility Letter



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Confidential

7 March 2019

Ms Coral Launer TGM Group

Email: corall@tgmgroup.com

Dear Coral,

135-235 Austin Street, Winchelsea: Results of your Feasibility Assessment

Thank you for considering **nbn** for the delivery of network infrastructure to your development.

We have carefully reviewed your development and undertaken a feasibility assessment to estimate the anticipated costs you may be required to pay when connecting to the **nbn**TM network.

The purpose of this estimate is to provide you with early planning information and indicative costs to consider before applying for **nbnTM** network infrastructure via the <u>online application form</u>.

Based on the information you have provided on the location and size of your development we have calculated the below estimate.

DEPLOYMENT CONTRIBUTIONS

SDU \$600 @ 154 lots/premises = \$92,400

BACKHAUL ESTIMATE

Distance of backhaul required = 0.5 km

Estimated Backhaul Cost = \$0.00 / \$0.00 per premise/lot (inclusive of GST)

TOTAL ANTICIPATED COSTS

\$92,400 inclusive of GST

Explanation of Costs

Backhaul charges apply to the distance of infrastructure required to connect the development to the **nbn™** access infrastructure. For new developments where there is no existing nbn™ access infrastructure (i.e. Fibre Access Node) charges will apply for this installation.

It is important to note that this is an estimate only.

The estimate has been calculated on current infrastructure costs, the distance of your development from the existing **nbn**TM network and is based on the premise count and the location of the first stage that will require service.

Actual amounts charged by **nbn** may change between now and the point when you ultimately enter into a contract for ${\bf nbn}$ to connect your development. For example, costs may reduce over time as additional network is rolled out. Conversely, costs may increase if the details, premise count or staging of your development changes. In any case, a new estimate will be provided prior to work commencing.

Once you have reviewed the above estimate please contact me to discuss the PLANNING & ENVIRONM I look forward to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with you to deliver qualicy to be a compared to working with your to deliver qualicy to be a compared to working with your to deliver qualicy to be a compared to the compared to th

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Yours sincerely

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Damon Messias

Business Development Manager | Enterprise & Government VIC/TAS **M** +61 447 024 138 | **E** <u>damonmessias@nbnco.com.au</u> Karen Hose

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