

24) Appendix W

**Sewage Letter and Report
Prepared by
CHRISP Consulting**

Ref:21067

2nd March 2022

Healing ONR Pty Ltd
679-685 Old Northern Road
Dural, NSW 2158

Re Dural Health Hub Sewage Management Options - Revision 02

This document provides for a written description of what is to be considered the four (4) optimal sewage management treatments for the proposed Dural Health Hub located at 679-685 Old Northern Road Dural. These options are outlined within our drawing 21067-C210 Revision E.

It is noted that the below options have been recommended by ACOR Consultants who are Sydney Water Services Coordinator's and they in turn have lodged documentation to Sydney Water to complete a Feasibility Study. Due to current Sydney Water workloads, a formal response is reasonably expected in April 2022.

Sewage Management Option 1

This option resolves site sewage disposal by way of installation of an on site septic tank system with a pressurised rising main to be installed along the eastern verge of Old Northern Road which would cross Old Northern Road towards an existing gravity sewer main on the western side.

This option requires ongoing maintenance of the onsite septic tank and pumps and construction along the Old Northern Road verge including under boring or trenching across the roadway and finally disturbances to the existing Round Corner Town Centre facilities while the connection is being undertaken.

Sewage Management Option 2

This option resolves site sewage disposal by way of installation of an onsite septic tank system with a pressurised rising main which would cross Old Northern Road towards an existing pressurised rising main on the western side. Trenching of this pipe installation could be completed along with approved road reconstruction under The Hills Shire Council DA 979/2016/HB.

This option requires coordination with Sydney Water for connection between 2 pressurised mains and the design and construction of connection structure/pit to prevent loss of this pressure.

Sewage Management Option 3

This option resolves site sewage disposal by way of installation of gravity main network which would cross Old Northern Road towards the western side. Trenching of this pipe installation could be completed along with approved road reconstruction under The Hills Shire Council DA 979/2016/HB.

Subsequent downstream connection would be to an existing gravity sewer main along Stonlea Court.

Sewage Management Option 4

This option resolves site sewage disposal by way of installation of gravity main network to be installed along the eastern verge of Old Northern Road which would cross Old Northern Road towards an existing gravity sewer main within Kenthurst Road.

This option requires construction along the Old Northern Road verge including under boring or trenching across the roadway at a significantly sized intersection.

Recommendation

Minimising disturbances to road traffic and neighbouring properties would minimise risks associated with delays in construction due to wet weather, long term traffic control installations and conflict with existing site services within the roadway verge or when crossing the road.

Subsequent to further inground services investigation during detailed design, it is our recommendation that Sewage Management Options 1 (requiring a rising main) or Option 3 (requiring a gravity main) be investigated further for feasibility.

Yours faithfully
CHRISP Consulting



Chris Paunescu - Director
BE (Civil), MIEAust,

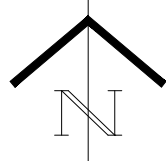


THIS TEXT TO BE PRINTED IN COLOUR



REV	DATE	REVISION DESCRIPTION
A	11.11.2021	ISSUE FOR REVIEW
B	12.11.2021	ISSUE FOR REVIEW
C	17.11.2021	ISSUE FOR INFORMATION FOR PLANNING PROPOSAL
D	15.02.2022	SEWAGE OPTIONS RE-NUMBERED
E	28.02.2022	SEWAGE OPTIONS UPDATED WITH SYDNEY WATER INPUT
F	02.03.2022	MINOR WORDING ADJUSTMENTS

TITLE	NAME
DRAWN	CP
DESIGNED	
DRG CHECK	
DESIGN CHECK	
APPROVED	CP



FOR INFORMATION ONLY

DURAL HEALTH HUB

ADDRESS

679-685 OLD NORTHERN ROAD, DURAL

SEWAGE MANAGEMENT PLAN

THIS DRAWING AND THE INFORMATION CONTAINED THEREON HAVE BEEN CREATED SOLELY FOR A PARTICULAR PURPOSE AND CLIENT. THIS IS PROTECTED BY COPYRIGHT. YOU MAY NOT REPRODUCE ANY OF IT IN ANY FORM WITHOUT THE WRITTEN PERMISSION BY CHRISP CONSULTING. IF YOU DO, YOU MAY HAVE TO PAY FOR DAMAGES TO CHRISP CONSULTING OR YOU MAY BE PROSECUTED.

JOB NUMBER:
21067

SCALE @ A1
N.T.S.

SHEET No
C210

REV
F