

ACTIVITY DETERMINATION

Project No. BGWY9

Conflict of Interest ¹	
In this matter:	
 I have declared any possible conflict of interests (real, Chief Executive, Land & Housing Corporation. I do not consider I have any personal interests that wo I will inform the Acting Chief Executive, Land & Housin aware of a possible conflict of interest. 	potential or perceived) to the Acting uld affect my professional judgement. ng Corporation as soon as I become
Signed	
NameEmma NIcholson	Dated16 November 2023

Having regard to the Determination Recommendation Report, the Statement of Compliance and the Review of Environmental Factors for this project addressing matters under Part 5 of the *Environmental Planning and Assessment Act 1979,* I determine that the activity proceed as described below and subject to the identified requirements set out in **Schedule 1**.

SITE IDENTIFICATION			
STREET ADDRESS			
Unit/Street No	Street or property name		
25 – 29	Prospero Street		
Suburb, town or locality		Postcode	
Maryland		2287	
Local Government Area(s)	Real property descript	tion (Lot and DP)	
Newcastle	Lots 395, 396 and 397	7 in DP 702896	
ACTIVITY DESCRIPTION			

Provide a description of the activity

Demolition of three 3 existing dwellings and structures, removal of trees, and the construction of 9 residential units comprising 1 x one bedroom, 5 x two bedroom and 3 x three bedroom units, with associated landscaping and fencing, surface parking for 6 cars, and consolidation into a single lot.

^{1.} Conflict of interest includes actual and potential. A conflict of interest includes pecuniary i.e. financial interests to you or a related party or non-pecuniary i.e. benefits to relatives, friends, business associates and personal causes, etc. This includes "related persons" as defined in the Property, Stock and Business Agency Act 2002.

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16 November 2023

Emma Nicholson A/Head of Policy and Innovation Land and Housing Corporation Department of Planning & Environment

SCHEDULE 1

IDENTIFIED REQUIREMENTS

PART A – Standard Identified Requirements

THE DEVELOPMENT

The following identified requirements are to ensure that the residential activity is carried out in accordance with the plans / documents and any amendments arising from the Review of Environmental Factors under Part 5 of the Environmental Planning & Assessment Act 1979, Section 171 of the Environmental Planning and Assessment Regulation 2021 and the requirements of State Environmental Planning Policy (Housing) 2021.

1. The development shall be carried out substantially in accordance with the following plans / documents as modified below and by any of the undermentioned Identified Requirements:

Title / Name:	Drawing No / Document Ref	Revision / Issue:	Date [dd/mm/yyyy]:	Prepared by:
Architectural				
Coversheet	DA00	05	08.08.2023	Stanton Dahl Architects
Site & Block Analysis Plan	DA01	04	08.08.2023	Stanton Dahl Architects
Demolition Plan	DA02	04	08.08.2023	Stanton Dahl Architects
Cut & Fill Plan	DA03	04	08.08.2023	Stanton Dahl Architects
Site & External Works Plan – Ground Floor	DA04	04	08.08.2023	Stanton Dahl Architects
Site & External Works Plan – First Floor	DA05	03	08.08.2023	Stanton Dahl Architects
Landscape & Deep Soil Diagram	DA06	05	08.08.2023	Stanton Dahl Architects
Floor Plans (Units 1 – 4)	DA07	04	08.08.2023	Stanton Dahl Architects
Floor Plans (Units 5 – 7)	DA08	04	08.08.2023	Stanton Dahl Architects
Floor Plans (Units 8 – 9)	DA09	04	08.08.2023	Stanton Dahl Architects
Elevations – Sheet 1	DA10	04	08.08.2023	Stanton Dahl Architects
Elevations – Sheet 2	DA11	04	08.08.2023	Stanton Dahl Architects
Elevations – Sheet 3	DA12	04	08.08.2023	Stanton Dahl Architects
Sections – Sheet 1	DA13	04	08.08.2023	Stanton Dahl Architects
Sections – Sheet 2	DA14	04	08.08.2023	Stanton Dahl Architects
Shadow Diagrams – Sheet 1	DA15	05	08.08.2023	Stanton Dahl Architects

Title / Name:	Drawing No /	Revision	Date	Prepared by:
	Document Ref	/ Issue:	[dd/mm/yyyy]:	
Shadow Diagrams – Shoot 2	DA16	02	08.08.2023	Stanton Dahl Architects
Shadow Diagrams -	DA17	02	08 08 2023	Stanton Dabl Architects
Sheet 3	DAII	02	00.00.2020	Stanton Dant Architects
View From Sun –	DA18	05	08.08.2023	Stanton Dahl Architects
View From Sun –	DA19	05	08.08.2023	Stanton Dahl Architects
POS Views (Units 1 – 4)	DA20	02	08.08.2023	Stanton Dahl Architects
POS Views (Units 1 – 4)	DA21	02	08.08.2023	Stanton Dahl Architects
POS Views (Units 5 –	DA22	02	08.08.2023	Stanton Dahl Architects
POS Views (Units 5 –	DA23	02	08.08.2023	Stanton Dahl Architects
POS Views (Units 8 –	DA24	02	08.08.2023	Stanton Dahl Architects
9) – Sheet 1				
POS Views (Units 8 – 9) – Sheet 2	DA25	02	08.08.2023	Stanton Dahl Architects
External Colour	DA26	05	08.08.2023	Stanton Dahl Architects
Selection				
Civil/ Stormwater				
Notes & Legends	C01	5	10.05.2023	Greenview Consulting
Ground Floor Drainage Plan	C02	5	10.05.2023	Greenview Consulting
Site Stormwater	C05	5	10.05.2023	Greenview Consulting
Notes & Legends	FSM12	2	26.04.2023	Greenview Consulting
Environmental Site	ESM22	2	26.04.2023	Greenview Consulting
Management Plan	LOWILL	-		are control concatting
Landscape				
Landscape Plan	L01	6	10.05.2023	Stanton Dahl Architects
Tree Protection & Details	L02	6	10.05.2023	Stanton Dahl Architects
Landscape	L03	6	10.05.2023	Stanton Dahl Architects
Specification and				
Maintenance Plan				
BASIX				
BASIX Certificate	1185536M_05		11.05.2023	Northrop Consulting Engineers Pty Ltd
NatHERS Certificate Summary	0008635110		10.05.2023	Northrop Consulting Engineers Pty Ltd
NatHERS Certificate	0008635021-01		10.05.2023	Northrop Consulting Engineers Pty Ltd
NatHERS Certificate	0008635054-		10.05.2023	Northrop Consulting
Unit 2	01			Engineers Pty Ltd
NatHERS Certificate Unit 3	0008635088- 01		10.05.2023	Northrop Consulting Engineers Pty Ltd
NatHERS Certificate	0008635039-		10.05.2023	Northrop Consulting
NatHERS Certificate	0008635070-		10.05.2023	Northron Consulting
Unit 5	01		10.00.2020	Engineers Pty Ltd
NatHERS Certificate	0008635096- 01		10.05.2023	Northrop Consulting Engineers Pty Ltd
NatHERS Certificate Unit 7	0008635047- 01		10.05.2023	Northrop Consulting Engineers Pty Ltd
NatHERS Certificate	0008635062-		10.05.2023	Northrop Consulting
NatHERS Certificate	0008635104-01		10.05.2023	Northrop Consulting
Unit 9				Engineers Pty Ltd
Arboriot's Stars C			12.04.2022	Liupton Liontioultural Comission
Arbonst's Stage C	-	-	13.04.2023	numer norticultural Services

Title / Name:	Drawing No / Document Ref	Revision / Issue:	Date [dd/mm/yyyy]:	Prepared by:
Report				
Access Report	23060	Final	21.04.2023	Vista Access Architects
Geotechnical	20/3518	-	October 2020	STS Geotechnics Pty Ltd
Investigation and Acid				
Sulfate Soil				
Assessment				
Traffic Impact	630.30566-R01	v1.0	April 2023	SLR Consulting Australia Pty
Assessment				Ltd
Waste Management	23013		April 2023	Dickens Solutions
Plan				
Bushfire Certificate		4	12.04.2023	Newcastle Bushfire
				Consulting
Final Building Code Of	20-215620		3.05.2023	Philip Chun Building
Australia 2022				Compliance
(Volume 2) Report				

- **2.** All building work is to be undertaken in accordance with the National Construction Code and referenced Australian Standards.
- **3.** All commitments listed in the BASIX certificate and stamped plans shall be implemented.
- **4.** All construction documentation and building work is to be certified in accordance with Section 6.28 of the Environmental Planning and Assessment Act 1979.
- **5.** The land the subject of this determination shall be consolidated into a single lot. The plan of consolidation shall be lodged at the NSW Land Registry Services and shall be registered prior to the occupation of the development. A copy of the registered plan shall be provided to the Land & Housing Corporation.

OPERATIONAL MATTERS

The following Identified Requirements relate to the use of the site and are to ensure that the activity and its operation do not interfere with the amenity of the surrounding area.

Stormwater Run-off

- 6. Stormwater shall be collected within the site and conveyed in a pipeline to the appropriate gutter or drain under the control of City of Newcastle Council substantially in accordance with the approved concept stormwater drainage plans.
- 7. Alterations to the natural surface contours or surface absorption characteristics of the site shall not impede, increase or divert natural surface water runoff so as to cause a nuisance to adjoining property owners.
- 8. All driveways shall be graded in such a manner as to provide continuous surface drainage flow paths to the appropriate points of discharge.
- **9.** To prevent water from entering buildings, surface waters shall be collected and diverted clear of the buildings by a sub-surface / surface drainage system.

Vehicular Access and Parking

10. A concrete vehicular crossing(s) and layback(s) shall be provided at the entrance(s) / exit(s) to the property. The crossing(s) and layback(s) shall be constructed in accordance with City of Newcastle Council's standard requirements for residential

crossings. Council shall be provided with plans for the crossing(s) and layback(s) together with the payment of any Council inspection fees.

11. Particular care shall be taken in the location of vehicular crossings and/or laybacks to avoid poles, pits etc. The cost of any necessary adjustments to utility mains and services associated with the construction of the layback(s) / driveway(s) shall be borne by the Land & Housing Corporation. Obsolete gutter layback(s) shall be constructed as kerb in accordance with City of Newcastle Council's standards.

Note:

It is recommended that discussion be held with the relevant authorities before construction works commence.

12. Car parking spaces and driveways shall be constructed of concrete or other approved hard surfaced materials. The spaces must be clear of obstructions and columns, permanently line marked and provided with adequate manoeuvring facilities. The design of these spaces must comply with AS 2890.1.

Site Works

- **13.** All soil erosion and sediment control measures required to be put in place prior to the commencement of demolition / construction works shall be maintained during the entire period of the works until all the disturbed areas are restored by turfing, paving or revegetation. Soil erosion and sediment control measures shall be designed in accordance with the guidelines set-out in the Blue Book *Managing Urban Stormwater: Soils and Construction* (4th edition, Landcom, 2004).
- 14. An appropriately qualified person shall design retaining walls or other methods necessary to prevent the movement of excavated or filled ground, including associated stormwater drainage measures.

Building Siting

15. All buildings shall be sited well clear of any easements affecting the site. The builder shall ascertain if any easements do exist and, if they do, obtain full details of such prior to construction commencing.

Smoke Detection System(s)

- **16.** Smoke detection systems shall be installed throughout the building(s) in accordance with requirements of Clause E2.2a of the Building Code of Australia. Detectors and alarms shall comply with AS 3786 and AS 1670 and must:
 - i. be connected to a permanent 240V power supply; and
 - ii. be provided with a battery backup to activate the alarm unit in the event of failure of the permanent power supply.

Site Soil Contamination

17. If the site is identified as being potentially affected by soil contamination, it shall be inspected by a suitably qualified person to identify any contaminated or hazardous material present. A proposal for remediation shall be prepared, which may include preparation of a Remedial Action Plan, and remediation shall be carried out in accordance with the proposal. A Validation Report, prepared in accordance with Environment Protection Authority requirements, shall be obtained from a qualified

expert on completion of the remediation work to verify that the site is suitable for the intended residential use. A copy of the Validation Report shall be provided to the Land & Housing Corporation on completion of the remediation works.

Landscaping

- **18.** Landscaping shall be carried out substantially in accordance with the approved Landscape Plan and maintained for a period of 12 months by the building contractor. City of Newcastle Council shall be consulted in relation to the planting of any street trees.
- **19.** All scheduled plant stock shall be pre-ordered, prior to commencement of construction or 3 months prior to the commencement of landscape construction works, whichever occurs sooner, for the supply to the site on time for installation. The builder shall provide written confirmation of the order to City of Newcastle Council and provide a copy to the Land & Housing Corporation.

Tree Removal

20. Removal of trees within the boundaries of the site is to be carried out in accordance with the trees shown for removal on the approved Landscape Plan and Arborist's Stage C Report and no other trees shall be removed without further approval(s).

Fencing

21. All front fencing and gates shall be constructed wholly within the boundaries of the site. Any gates associated with the fencing shall swing inwards towards the site.

Provision of Letterbox Facilities

22. Suitable letterbox facilities are to be provided in accordance with Australia Post specifications.

Public Liability Insurance

23. A valid public liability insurance policy of at least \$10M shall be maintained throughout the demolition / construction works by the contractor.

PRIOR TO ANY WORK COMMENCING ON THE SITE

The following Identified Requirements are to be complied with prior to any work commencing on the site, including demolition.

Disconnection of Services

- 24. All services that are required to be disconnected shall be appropriately disconnected and made safe prior to commencement of the demolition / construction works. The various service authorities shall be consulted regarding their requirements for the disconnection of services.
- **25.** All existing services within the boundary to remain live shall be identified, pegged and made safe.

Demolition

- 26. The builder shall notify the occupants of premises on either side, opposite and at the rear of the site a minimum of five (5) working days prior to demolition. Such notification shall be clearly written on an A4 size paper giving the date demolition will commence and be placed in the letterbox of every premise (including every unit in a multi-unit residential building or mixed use building). The demolition shall not commence prior to the date that is stated in the notice letter.
- 27. Prior to the demolition, a Work Plan shall be prepared by a competent person(s) in accordance with AS 2601 and shall be submitted to the Land & Housing Corporation. The Work Plan shall outline the identification of any hazardous materials (including surfaces coated with lead paint), method of demolition, the precautions to be employed to minimise any dust nuisance and the disposal methods for hazardous materials.
- 28. If buildings to be demolished are determined as, or suspected of, containing asbestos cement, a standard commercially manufactured sign containing the words 'DANGER ASBESTOS REMOVAL IN PROGRESS', and measuring not less than 400mm x 300mm, shall be erected in a prominent visible position on the site for the duration of the demolition works.

Note:

Any buildings constructed before 1987 is assumed to contain asbestos.

Utilities Service Provider Notification

29. The demolition / construction plans shall be submitted to the appropriate water utility's office (e.g. Sydney Water office) to determine whether or not the development will affect the utility's sewer and water mains, stormwater drains and any easements.

Note:

If the development complies with water utility's requirements, the plans will be stamped indicating that no further requirements are necessary.

Council Notification

30. City of Newcastle Council shall be advised in writing, of the date it is intended to commence work, including demolition. A minimum period of **five (5)** working days notification shall be given.

Site Safety

- **31.** A sign shall be erected in a prominent position on any site on which demolition or building work is being carried out:
 - (a) showing the name, address and telephone number of the responsible Land & Housing Corporation officer for the work, and
 - (b) showing the name of the principal contractor (if any) and a telephone number on which that person may be contacted outside working hours, and
 - (c) stating that unauthorised entry to the work site is prohibited.

The sign shall be maintained while the work is being carried out but shall be removed when the work has been completed.

Note:

This requirement does not apply in relation to building work that is carried out inside an existing building that does not affect the external walls of the building.

32. A minimum 1.8m high security fence or Class A / Class B (overhead) hoarding must be erected between the work site and any public place prior to demolition / construction. Access to the site shall be restricted to authorised persons only and the site shall be secured against unauthorised entry when demolition / construction work is not in progress or the site is otherwise unoccupied.

Note:

Approval from the relevant roads authority will be required under Section 138 of the Roads Act 1993 where a Class A or B hoarding encroaches onto the footpath of / or a public thoroughfare within a classified road.

33. No building or demolition materials are to be stored on the footpath or roadway.

Site Facilities

- **34.** The following facilities shall be installed on the site:
 - (a) Toilet facilities shall be provided at the rate of 1 toilet for every 20 persons or part thereof employed at the site. Each toilet provided shall be a standard flushing toilet and shall be connected to a public sewer or if connection to a public sewer is not practicable, to an accredited sewerage management facility provided by Newcastle Council or if this is not practicable to some other council approved management facility.
 - (b) Adequate refuse disposal methods and builders storage facilities. Builders' wastes, materials or sheds shall not to be placed on any property other than that which this approval relates to.
- **35.** Access to the site shall only be provided via an all weather driveway on the property and is not to be provided from any other site.

Protection of Trees

36. Trees and other vegetation that are to be retained on site and in the council road reserve shall be protected prior to the commencement of works and for the duration of the construction period in accordance with the details provided in the Arborist's Stage C Report.

Waste Management

37. A final Waste Management Plan shall be prepared and submitted to the Land & Housing Corporation by the building contractor prior to the commencement of demolition / construction. The plan shall detail the amount of waste material and the destination of all materials, recyclable and non-recyclable.

PRIOR TO ANY CONSTRUCTION WORK COMMENCING ON SITE

The following Identified Requirements are to be complied with prior to any construction works occurring on the site, excluding demolition.

Service Authority Clearances

38. A compliance certificate, or other evidence, shall be obtained from the relevant water utility provider (e.g. the local council for the area, Hunter Water or Sydney Water), confirming service availability prior to work commencing.

Note:

Payment of water and/or sewer service charges and/or a notice of requirements for works to be carried out during construction/prior to occupation may be applicable prior to issue of the compliance certificate.

- **39.** A written clearance from an electricity supply authority stating that electrical services are available to the site, or that arrangements have been entered into for the provision of services to the site, shall be obtained prior to work commencing.
- **40.** A certificate from an approved telecommunications carrier certifying that satisfactory arrangements have been made for the provision of underground telephone services, to the site and to each dwelling, shall be obtained prior to work commencing.
- **41.** Where the site is to be connected to reticulated gas, a certificate from an approved gas carrier to certify that satisfactory arrangements have been made to ensure the provision of underground gas services to each dwelling in the development shall be obtained prior to work commencing.

Stormwater Disposal

- **42.** A detailed stormwater drainage plan(s), substantially in accordance with the approved concept stormwater drainage plan(s), shall be prepared and submitted to the Land & Housing Corporation. Any on-site detention system shall be designed in accordance with the relevant catchment authority's requirements (e.g. the Upper Parramatta River Catchment Trust On-site Detention Handbook) and/or City of Newcastle Council's drainage code.
- **43.** Where a drainage easement is required, proof of lodgement of the plan of the drainage easement at the NSW Land Registry Services shall be submitted to the Land & Housing Corporation prior to commencement of works. Registration of the plan of easement shall be completed prior to occupation of the development and a copy of the registered plan shall be provided to the Land & Housing Corporation.

DURING DEMOLITION AND CONSTRUCTION WORKS

The following Identified Requirements are to be complied with whilst demolition and construction works are occurring on the site.

Landfill

44. Where site filling is necessary, a minimum of 95% standard compacting shall be achieved and certified by a NATA registered Soils Lab.

- **45.** Land fill materials must satisfy the following requirements:
 - i. be Virgin Excavated Natural Matter (VENM);
 - ii. be free of slag, hazardous, contaminated, putrescible, toxic or radio-active matter; and
 - iii. be free of industrial waste and building debris.

Heritage

- **46.** Historic and indigenous archaeological sites and relics are protected under the *Heritage Act 1977* and *National Parks and Wildlife Act 1974,* respectively. Should any relics be uncovered during the course of the approved works, work must cease immediately in the affected area. Subsequently, in cases where historical items have been uncovered, the Department of Planning and Environment must be contacted.
- **47.** All workers / contractors on the site shall be informed of their obligations, under the Heritage Act and *National Parks and Wildlife Act 1974,* that it is illegal to disturb, damage or destroy a relic without the prior approval.

Demolition

- **48.** Any existing structures identified for demolition shall be demolished prior to commencement of the construction of the activity.
- **49.** Demolition shall be carried out in accordance with the appropriate provisions of AS 2601.
- **50.** Where materials containing asbestos are to be removed, demolition shall be carried out by a licensed contractor(s) who have current SafeWork NSW accreditation in asbestos removal.
- **51.** Removal of asbestos-based thermal or acoustic insulation, such as sprayed asbestos and asbestos-based lagging, including friable asbestos boards, shall be carried out in accordance with the National Occupational Health and Safety Commission's Code of Practice for the Safe Removal of Asbestos, 2nd Edition [NOHSC:2002 (2005)].
- **52.** Hazardous or intractable wastes, including all asbestos laden waste, arising from the demolition process shall be removed and disposed of in accordance with the requirements of SafeWork NSW and the Department of Planning and Environment.
- **53.** Documentary evidence, in the form of tip receipts from an approved Waste Management Facility, shall be obtained by the demolition contractor and submitted to the Land & Housing Corporation demonstrating the appropriate disposal of the asbestos waste.
- **54.** Demolition procedures shall maximise the reuse and recycling of demolished materials in order to reduce the environmental impacts of waste disposal.
- **55.** During demolition, the public footpath and the public road shall not be obstructed by any vehicles. The public road and footpath shall be swept (not hosed) clean of any material, including clay, soil and sand.
- **56.** All vehicles leaving the site with demolition materials shall have their loads covered and vehicles shall not track soil and other material onto the public roads and footpaths. The footpath shall be suitably protected against damage when plant and

vehicles access the site. All loading of vehicles with demolished materials shall occur on site.

Survey Reports

57. Survey reports shall be submitted by the building contractor to the Land & Housing Corporation prior to the placement of the footings / slab and on completion of the dwellings to verify the correct position of the structures in relation to the allotment boundaries.

Hours of Demolition / Construction / Civil Work

58. Demolition / construction / Demolition / construction / civil work shall only occur on the site between the hours of 7.00am to 5.00pm Monday to Saturday with no work permitted on Sundays or public holidays.

Excavation & Backfilling

59. All excavations and backfilling associated with the demolition or erection of building(s) shall be executed safely and in accordance with appropriate professional standards. All such work shall be guarded and protected to prevent it from being dangerous to life or property.

Pollution Control

- **60.** Any noise generated during the construction of the development shall not exceed the limits specified in the July 2009 Interim Construction Noise Guidelines, published by the former Department of Environment and Climate Change.
- 61. No fires shall be lit or waste materials burnt on the site.
- 62. No washing of concrete forms or trucks shall occur on the site.
- **63.** Any contamination / spills on the site during construction works shall be actively managed and reported immediately to appropriate regulatory authorities to minimise any potential damage to the environment.
- **64.** Dust generation during demolition / construction shall be controlled using regular control measures such as on site watering or damp cloth fences.
- **65.** All vehicles transporting loose materials and travelling on public roads shall be secured (i.e. closed tail gate and covered) to minimise dust generation.
- **66.** Non-recyclable waste and containers shall be regularly collected and disposed of at a licensed landfill or other disposal site in accordance with details set out in the final Waste Management Plan.

Impact of Construction Works

- **67.** The Land & Housing Corporation shall bear the cost of any necessary adjustments to utility mains and services.
- **68.** Care shall be taken to prevent any damage to adjoining properties. The building contractor shall be liable to pay compensation to any adjoining owner if, due to demolition/construction works, damage is caused to such adjoining property.

Termite Protection

69. To protect buildings from subterranean termite, termite barriers installed in accordance with AS 3660.1, shall be placed on the underside and in penetrations of the concrete slab floor.

In addition, a durable notice must be permanently fixed inside the meter box indicating:

- (a) the method of protection.
- (b) the date of installation of the system.
- (c) where a chemical barrier is used, its life expectancy as listed on the National Registration Authority label.
- (d) the need to maintain and inspect the system on a regular basis.

PRIOR TO OCCUPATION OF THE DEVELOPMENT

The following Identified Requirements are to be complied with prior to the occupation of the development.

General

70. The use or occupation of the development shall not commence until all the Identified Requirements of this determination have been complied with.

Council Infrastructure Damage

71. The cost of repairing any damage caused to City of Newcastle Council's assets in the vicinity of the site as a result of demolition / construction works shall be met in full by the building contractor.

Stormwater Drainage

- 72. Prior to occupation, a Work As Executed Plan shall be prepared by the building contractor clearly showing all aspects of the constructed stormwater drainage system, including any on-site detention system. The plan shall demonstrate general compliance with the approved concept stormwater drainage plan(s) and shall include:
 - sufficient levels and dimensions to verify the constructed storage volumes; and
 - location and surface levels of all pits; and
 - invert levels of the internal drainage lines, orifice plates fitted and levels within the outlet control pits; and
 - finished floor levels of all structures; and
 - verification that any required trash screens have been installed; and
 - locations and levels of any overland flow paths; and
 - verification that any drainage lines are located wholly within easements, where applicable.

The Work-As-Executed Plan information shall be shown on the final civil works drawings.

A positive covenant and restriction-as-to-user shall be placed over the onsite detention system in accordance with City of Newcastle Council's on-site detention

policy to ensure that the system will be adequately maintained. The positive covenant and restriction-as-to-user shall be registered at NSW Land Registry Services prior to occupation. A copy of the registered restriction-as-to-user shall be provided to the Land & Housing Corporation and Newcastle Council.

PART B - Additional Identified Requirements

Site Specific Requirements

- **73.** To manage bushfire risk and comply with Planning for Bushfire Protection 2019 (PBP), the development shall comply with the following requirements outlined in the Bushfire Certificate prepared by Newcastle Bushfire Consulting dated 12 April 2023:
 - a. BAL-12.5 in accordance with AS3959 (2018) Construction of buildings in bushfire-prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014 as appropriate and the additional construction requirements of Planning for Bush Fire Protection (2019) Section 7.5.2.
 - b. At the commencement of building works and in perpetuity, the entire property shall be managed as an inner protection area (IPA) as outlined within Appendix 4 of Planning for Bush Fire Protection 2019 and the NSW Rural Fire Service's document Standards for Asset Protection Zones.
 - c. Water, electricity, and gas are to comply with Section 7 of Planning for Bush Fire Protection (2019).
 - d. Landscaping is to be undertaken in accordance with Planning for Bush Fire Protection (2019) Appendix 4 and managed and maintained in perpetuity.
 - e. It is recommended that the property owner and occupants familiarise themselves with the relevant bushfire preparation and survival information provided by the NSW RFS.
- **74.** To improve solar access to private open space areas of Units 1 7, the following amendments to proposed fencing are required:
 - a. The screen fencing provided along the east elevation of the Private Open Space areas of Units 1 and 2 is to be reduced in height to a maximum of 1.5m measured from the finished floor level of the paved Private Open Space area.
 - b. The screen fencing provided along the east elevation of the Private Open Space areas of Units 3 and 4 is to be reduced in height to a maximum of 1.7m measured from the finished floor level of the paved Private Open Space area.
 - c. The screen fencing provided along the west elevation of the Private Open Space areas of units 5-7 (labelled f(5)) is to be deleted. The dividing fences separating the Private Open Space area of these units is to extend to the boundary fence on the west boundary to ensure privacy is maintained between these units.
- **75.** To ensure consistency across documentation, drawing DA05 in the Architectural Plans must be updated to reflect the location of the north facing windows in bed 2 of unit 5, as shown on drawings DA08 and DA10.

Requirements Resulting from Council Submissions

76. A new kerb inlet pit (lintel nominal size1200mm) to CN's Standard Drawing A2200 at the site frontage, connecting to an existing public pit via new 375mm RRJ class 4 RCP pipe for discharge of stormwater from the development. Site drainage must be connected to the new stormwater pit.

- 77. Redundant driveways in the road reserve are to be removed and restored as kerb.
- **78.** The driveway crossover adjacent to council street tree PT1 must be removed using hand tools only. No machinery is to be operated in the Tree Protection Zone (TPZ) of this tree.
- **79.** In order to comply with City of Newcastle Council's House Numbering Policy' and the Surveying and Spatial Regulation 2017, the street address for the subject development is allocated as follows:

ADDRESS SCHEDULE				
Unit/ Dwelling/ Lot	(Council Allocated	Street Address	es
Number on plan	House Number	Street Name	Street Type	Suburb
Proposed Unit 1	1/27	Prospero	Street	Maryland
Proposed Unit 2	2/27	Prospero	Street	Maryland
Proposed Unit 3	3/27	Prospero	Street	Maryland
Proposed Unit 4	4/27	Prospero	Street	Maryland
Proposed Unit 5	7/27	Prospero	Street	Maryland
Proposed Unit 6	8/27	Prospero	Street	Maryland
Proposed Unit 7	9/27	Prospero	Street	Maryland
Proposed Unit 8	6/27	Prospero	Street	Maryland
Proposed Unit 9	5/27	Prospero	Street	Maryland

Requirements Resulting From Public Submissions

80. To minimise privacy impacts into the rear private open space of 23 Prospero Street, the bottom fixed windowpane of the two windows on the east elevation of bedroom 2 in Unit 3 are to be removed.

ADVISORY NOTES

- i. Approval of this development activity does not imply or infer compliance with Section 23 of the *Disability Discrimination Act 1992*. Refer to AS 1428.1 and the Building Code of Australia for detailed guidance.
- ii. Information regarding the location of underground services may be obtained from Dial Before You Dig at <u>www.1100.com.au</u> or by dialling 1100.



Decision Statement

SITE IDENTIFICATION		
STREET ADDRESS		
Unit/Street No	Street or property name	
25 – 29	Prospero Street	
Suburb, town or locality	Postcode	
Maryland	2287	
Local Government Area(s)	Real property description (Lot and DP)	
Newcastle	Lots 395, 396 and 397 in DP 702896	
ACTIVITY DESCRIPTION		

Provide a description of the activity

Demolition of 3 existing dwellings and structures, removal of trees, and the construction of 9 residential units comprising 1 x 1-bedroom, 5 x 2-bedroom and 3 x 3-bedroom units, with associated landscaping and fencing, surface parking for 6 cars, and consolidation into a single lot.

The Land & Housing Corporation (LAHC) has proposed the above activity under the provisions of *State Environmental Planning Policy (Housing) 2021* (Housing SEPP) which requires determination under Part 5 of the *Environmental Planning & Assessment Act 1979* (EP&A Act). This Decision Statement relates to the Review of Environmental Factors (REF) for the above activity prepared under Part 5 of the EP&A Act and the *Environmental Planning and Assessment Regulation 2021*.

Based on the REF document and supporting documentation, including advice from City of Newcastle a decision to proceed with the proposed activity has been made. This decision included consideration of the following:

Significant Impact on the Environment

- The proposed activity is not likely to have a significant impact on the environment and therefore an EIS is not required.
- The proposed activity will not be carried out in a declared area of outstanding biodiversity value and is not likely to significantly affect threatened species, populations or ecological communities, or their habitats or impact biodiversity values, meaning a SIS and/or BDAR is not required.

Reasons for the Decision

- Following an assessment of the proposed activity and associated environmental impacts within the REF document it was decided that the proposed development will have economic and social benefits and any minor short-term impacts on the environment or surrounding properties can be appropriately mitigated.
- The proposed development will assist in the provision of much needed social and affordable housing and assist in addressing the existing and growing demand for housing in the local government area.

Mitigation Measures

• Mitigation measures are required to minimise or manage environmental impacts and are detailed throughout the REF and specifically within Section 8. All mitigation measures are detailed as Identified Requirements within the Activity Determination. Additional mitigation measures, detailed in the Activity Determination have been imposed to minimise the impact on the surrounding environment, ensure appropriate site safety and to ensure legislative compliance.

lela. Signed.....

Dated ...16.November 2023

Emma Nicholson Acting Head of Policy and Innovation Land and Housing Corporation Department of Planning & Environment

Land & Housing Corporation, General Housing Development 25-29 Prospero Street, Maryland, NSW Lots 395-397, DP 702896 Part 5 Activity Submission 8th August 2023

Architectural Drawing Schedule

		-
2869.23 2869.23	DA00 DA01 DA02 DA03 DA04 DA05 DA06 DA07 DA08 DA09 DA10 DA11 DA12 DA13 DA14 DA13 DA14 DA15 DA16 DA17 DA18 DA19	Cover Sheet & Location Plan Site & Block Analysis Plan Demolition Plan Cut & Fill Plan Site & External Works Plan - Ground Floor Site & External Works Plan - First Floor Landscape & Deep Soil Diagram Floor Plans (Units 1-4) Floor Plans (Units 5-7) Floor Plans (Units 5-7) Floor Plans (Units 8-9) Elevations - Sheet 1 Elevations - Sheet 2 Elevations - Sheet 2 Elevations - Sheet 3 Sections - Sheet 1 Shadow Diagrams - Sheet 1 Shadow Diagrams - Sheet 2 Shadow Diagrams - Sheet 3 Site View From Sun - Sheet 3
2869.23	DA10 DA17	Shadow Diagrams - Sheet 2 Shadow Diagrams - Sheet 3
2869.23	DA18	Site View From Sun - Sheet 1
2869.23	DA19	Site View From Sun - Sheet 2
2869.23	DA20 DA21	POS Views (Units 1-4) - Sheet 2
2869.23	DA22	POS Views (Units 5-7) - Sheet 1
2869.23	DA23	POS Views (Units 5-7) - Sheet 2
2869.23	DA24	POS Views (Units 8-9) - Sheet 1
2869.23	DA25	PUS VIEWS (UNITS 8-9) - Sheet 2 External Calour Salastian
2009.23	DAZO	External Colour Selection

Civil Drawing Schedule

230135 C01	Notes & Legends
230135 C02	Ground Floor Drainage Plan
230135 C05	Site Stormwater Details Sheet 1
230135 ESM1	Notes & Legends
230135 ESM2	Environmental Site Management Plan

Landscape Drawing Schedule

2869.23	L01	Landscape Plan & Details
2869.23	L02	Tree Protection Details
2869.23	L03	Landscape Specification & Maintenance Plan





01 not to scale



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16 November 2023

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Stanton Dahl Architects PO Box 833, Epping, NSW 1710, Australia Tel +61 2 8876 5300 www.stantondahl.com.au





Land & Housing Corporation

General Housing Development

25-29 Prospero Street, Maryland, NSW

Drawn; MP/DD/AT Checked; ML Plot date; 8/8/2023 Scale; as noted @ AI

Project No; BGWY9

Drawing No; DA00

Revision#; 05

Cover Sheet & Location Plan



Site & Block Analysis Plan 1:200 01





 04
 08/08/23
 Updated Part 5 Issue

 03
 10/05/23
 Part 5 Issue

 02
 26/04/23
 Part 5 Issue

 01
 14/04/23
 Part 5 Issue
 Rev Date Issue do not scale drawings. check all dimensions on site. figured dimensions take precedence.



Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant Greenview Consulting

Ph: (02) 8544 1683

Architect:



Project: **General Housing Development** Title: Site & Block Analysis Plan

25-29 Prospero Street, Maryland







V2 View towards 31 Prospere



View towards Gundaine Close **V**3



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16 November 2023

-	1		1. 1	
0	Stre	eet		

(•)	existing trees to be remov
	existing structures
	DCP setbacks
	site boundaries

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Legend site & block analysis plan

existing trees to be retained

approx. location of existing contours



indicates private open spaces

- 🔨 Coles Fletcher (895m)
- ↓ Fire & Rescue NSW Wallsend Fire Station (706m)
- → Maryland Public School (320m)
- Srange Avenue Reserve (452m)
- 🛹 Bill Elliot Park (631m)
- → Wallsend Airfield (1,538m)
- Sandgate Train Station (4,325m)

2869.23_25-29 Prospero St, Maryland_Part 5.pln

Plotted: 8/8/2023 2:09 pm

Status: Pa	art 5 Activity	Submission	
Date: 8/8/2023 Stage:	Scale: 1:200 @ AI Drawn:	S d job no: 2869.23 Checked:	Project no. BGWY9 Approved:
Part 5 ^{Drawing:} DA01	MP/DD/AT Sheet: 201	мг f 27	ML ^{Rev:}



DETERMINED by the NSW Land and Housing Corporation on:

Gledr 16 November 2023

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Legend Legend demolition plan note: drawing may not contain all items listed below



existing trees to be retained

existing trees to be removed

not in scope of works

denotes existing items to be demolished or removed (walls, equipment etc.)

 $- \cdot - \cdot -$ site boundaries

approx. location of existing contours

2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:09 pm

Part 5

Drawing:

DA02

Status: Part 5 Activity Submission Scale Date S|d job no 8/8/2023 1:100 @ AI 2869.23 Stage: Drawn:

Sheet:

BGWY9 ML Rev:

Checked: MP/DD/AT ML 3 of 27 04







16 November 2023

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existing trees to be removed

existing trees to be retained

_____ outline of new buildings

_ · _ · _ site boundaries

note: blue area indicated extent of fill

note: red area indicated extent of cut

40

approx. depth of fill in millimetres approx. depth of cut in millimetres

approx. location of existing contours

Part 5

Drawing:

DA03

Status: Part 5 Activity Submission Date: Scale: S|d job no: 1:100 @ AI 2869.23 8/8/2023 Stage: Checked: Drawn:

Sheet:

MP/DD/AT ML

BGWY9 ML Rev: 4 of 27 04





DETERMINED by the NSW Land and Housing Corporation on:



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			16 Nove	ember 2023	(C	© Copyright 2023 Stan	ton Dahl	
						 Legend	(external work /	site plan)
						note: drawing may	not contain all items list	ed below ´
						ex	.contours & banki	ing line
	/					(·) ex	isting trees to be	removed
							isting trace to be	rotainad
<u> </u>							isting trees to be	retained
				_		pro pro	oposed trees	
						ex. ex	isting levels	
×						RL00.00 • ex	anosed levels	
						39.000 pr	posed spot levels	3
*	existing electrical pi	lar			-	ac air	conditioner cond	enser
Ð						acc ac adhc ag	cessible eing, disability &	home care
		\				ap ac bal(1) ba	cess panel lustrade (type)	
	Ċ,					bfc bro boe bri	oom finished cond ck on edge	crete
exi	isting wer manhole					bl bo bol bo	llard light llard	
	sí O					cc(1) co cft(1) ce	loured concrete (i ramic floor tile (ty	type) pe)
	50(cl clo col co	othes line lumn	
	2					dp do drp do	wnpipe orpost	
						ex. ex fb(1) fac	isting cebrick work (type)
8	R					ffl fin ft(1) fer	ished floor level nce (type)	
° 57' 1	X-	472.		-/->		gb ga gt ga	rbage bin te	
160			////			gtd gra hr(1) ha	ated drain ndrail (type)	
Ē	S01	23 F S	Prospero Stre Single Storey	eet		ht ho hwu ho	se tap t water unit	
2.282n		YE	3rick House Tile Roof			hyd hy kr ke 	drant rb ramp	
ıry - 32	- KX//	X / /		///		lb let ofc off	ter box form concrete	
ounda	$\langle \Lambda / \rangle$	M	 	4,		pmp pe pos pri	rmeable pavers vate open space	
(B						pp po rw(1) ret	wer pole aining wall (type)	1
						rwo rai rwt rai	nwater outlet nwater tank	
2						sfc ste sfl str	eel float concrete uctural floor level	
⇔S2		\overline{Z}				swp sto tfc tro	orm water pit wel finished conc	rete
	/					tow top	ctile ground surfact o of wall	ce indicator
sting s to be	stormwater removed					wie wo ws wh	neel stop	
			ADDRESS	DEVE	25-29 F	Prospero Street,	Maryland	
	E02 DA10	1	SITE AREA			1,764.45m2	12806	
	\checkmark		LOTS		Lot	Land Zoning.	2	
	502			Ground Floor		392.63	m2	1
	DA13		GFA	First Floor TOTAL		391.85 784.48	m2 m2	
					d to innor faco	of external encl		ding garages
		*	NUMBER OF	GFA" measured				ung garages.
5			DWELLINGS		9 Apartments	- 1x 1 Bed, 5x 3	2 Bed, 3x 3 Bed	
			DWELLING AREAS	Number 1	Type* General	Beds 2	Area* (m ²) 87.29	POS (m2) 19.37
				2 3	General General	2	84.01 82.37	23.84 19.00
8	1			4	General General	1 2	51.46	29.90 22.18
	ack			6 7	General	2	87.57	26.82
	setb.			8	General	3	95.44	44.16
	S S			9 *area = meas	General sured to interna	3 al face of extern	al wall including i	internal walls.
	-+ 2		BUILDING	Cor	ntrol	Requ	irement	Proposed
	۴ 10	1	HEIGHT	nousini(6.1	0.44 : 1
	6 8 0 7		FSR	Newcas		0.	.0.1	(784.48 m2)
	4 ,0		DADKING			0.4 space p	er 2 bed = 2.5	
	Se		PARKING	SEPP (F	Housing)	1 space p	er 3 bed = 3	6 spaces
) —		\				total spaces re Front:	equired = 5.9 (6)	building line =
						average setba within 40m eith	ick of buidings ner side on	5.5m front porch =
Ł			SETEACKO	Nouroe	tle DCP	same road = 7	'm	4.05m
				I NEWLAS		Side: 4.5m hig	ın = 0.9m	3.84m
						Rear: ≤4.5m high	= 3m	4.09m
				k I -		30% of lot a	rea min 1.5m.	535.03m2
			LANDSCAPE	Newcas		min 3m at re	ar = 529.34m2	(30% of site area)
			DEEP SOIL	Newcas	tle DCP	15% of lot a 264	irea, min 3m = .67m2	401.45m2 (23% of site
						204	-	area)
const ment	ruction requireme to be in accordar rovided by	nts nce	SOLAR ACCESS	LAHC Design	Requirements	70% of dwellir have 2hrs of	ngs & POS must direct sunlight	78% POS - 9/9 =
shfire 2 Apr	Consulting ril 2023					between 9am	to 3pm 21 June	100%
	Title:	ornal T	Mortes D1-	h	Status:	Part 5 Activ	ity Submission	
Ε	Sile & EX	lemai V loor	WOLKS Plat	1 -	Date: 8/8/202	Scale: .3 1:100 @	S d job no: AI 2869.23	Project no. BGWY9
				- J.	Stage: Part 5	Drawn: MP/DD/A	Checked: AT ML	Approved: ML
	^{гие:} 2869.23_25-2	29 Prosper	Plotte	ື 8/8/2023 2:10 ກm	B Drawing: DAO	4 5	of 27	04
	Maryland_Pa	rt 5.pln		~ L	•		-	

0 1000 2000 3000 4000 5000 10 000 scale: 1:100 @A1











note: drawing	(external work / site plan) may not contain all items listed below
64	ex.contours & banking line
	existing trees to be removed
	existing trees to be retained
	proposed trees
ex. RL00.00	existing levels
RL00.00 -	proposed levels
_39.000 +	proposed spot levels
ac	air conditioner condenser
acc adhc	accessible
ap	access panel
bal(1)	balustrade (type)
bfc	broom finished concrete
boe	brick on edge
DI	bollard light
cc(1)	coloured concrete (type)
cft(1)	ceramic floor tile (type)
cl	clothes line
col	column
dp	downpipe
drp	doorpost
ex.	existing
fb(1)	facebrick work (type)
TTI ft(1)	finished floor level
ab	darbage bin
at	gate
gtd	grated drain
hr(1)	handrail (type)
ht	hose tap
hwu	hot water unit
hyd	hydrant
Kľ Ib	kerb ramp letter box
ofc	off form concrete
pmp	permeable pavers
pos	private open space
рр	power pole
rw(1)	retaining wall (type)
rwo	rainwater outlet
rwt	rainwater tank
sfl	structural floor level
SWD	storm water pit
tfc	trowel finished concrete
tgsi	tactile ground surface indicator
tow	top of wall
wfc	wood float concrete
ws	wheel stop

*bushfire note:

the BAL 12.5 construction requirements of the development to be in accordance to bushfire report provided by Newcastle Bushfire Consulting Rev 4 dated 12 April 2023

nent	Site & External Works Plan - First
	Floor

2869.23_25-29 Prospero St,	
Maryland_Part 5.pln	

^{Plotted:} 8/8/2023 2:10 pm

Status:	Part 5 Activity Submission		
Date:	Scale:	S d job no:	
8/8/2023	1:100 @ AI	2869.23	
Stage:	Drawn:	Checked:	

Project no BGWY9 Approved:

Part 5 MP/DD/AT ML ML Drawing: Sheet: Rev: DA05 6 of 27 03





1:200



 05
 08/08/23
 Updated Part 5 Issue

 04
 16/06/23
 Part 5 Issue

 03
 10/05/23
 Part 5 Issue

 02
 26/04/23
 Part 5 Issue

 01
 14/04/23
 Part 5 Issue

 Rev
 Date
 Issue
 do not scale drawings. check all dimensions on site. figured dimensions take precedence.



Deep Soil Diagram



Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting

Ph: (02) 8544 1683

Architect:



at File: 25-29 Prospero Street, Maryland 2869.23_25-29 Prospero St, Maryland_Part 5.pln



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Total: 535.03 m² (30% of site area)



Total: 401.45 m² (23% of site area)

Project: General Housing Development Title: Landscape & Deep Soil Diagram

^{Plotted:} 8/8/2023 2:10 pm

Date: Scale: S|d job no: 1:200 @ AI 2869.23 BGWY9 8/8/2023 stage: Part 5 Drawing: DA06 Checked: Drawn: MP/DD/AT ML

Status: Part 5 Activity Submission

Project no Approved: ML $\frac{1}{3} \int \frac{1}{2} \int \frac{1}$



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 04
 08/08/23
 Updated Part 5 Issue

 03
 10/05/23
 Part 5 Issue

 02
 26/04/23
 Part 5 Issue

 01
 14/04/23
 Part 5 Issue

 Rev
 Date
 Issue
 do not scale drawings. check all dimensions on site. figured dimensions take precedence.











Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Architect:



at

Project: General Housing Developm

25-29 Prospero Street, Marylan



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—	
Legend note: drawing	(floor plans) may not contain all items listed below
D01	door numbers (as scheduled) (prefix ex. for existing door)
W01	window numbers (as scheduled) (prefix ex. for existing window)
(a)	wall type (as scheduled)
ac	air conditioner condenser
acc	accessible
amb	ambulant
ар	access panel
bal(1)	balustrade (type)
bfc	broom finish concrete
bol	bollard
bsn	basin
cft(1)	ceramic floor tile (type)
cj	control joint
cl	clothes line
col	column
comms	communication cabinet
cpi(1)	cooktop
dp	downpipe
drp	doorpost
edb	electrical distribution box
ex. fb(1)	existing
fbr	fire hose reel
fp	feature panel
fs	fridge space
fw	floor waste
gb	garbage bin
gt atd	gate grated drain
hr(1)	handrail (type)
ht	hose tap
hwu	hot water unit
hyd	hydrant
Kr Ib	kerb ramp letter box
lin	linen cupboard
mw	microwave
ofc	off form concrete
ps	privacy screen
pty ref	pantry refridgerator
rfm	recessed floor mat
robe	wardrobe
rw(1)	retaining wall (type)
rwt	rainwater tank
SUK	steel column
sfc	steel float concrete
shr	shower
sk	skylight/skytube
SI	sliding door
SI SV(1)	store sheet vinyl (type)
swp	storm water pit
tgsi	tactile ground surface indicators
vp	vent pipe
wfc	wood float concrete
WO	washing machine space wall oven
ws	wheel stop
wcs	window casing

Legend	(roof plans) may not contain all items listed below
ар	access panel
bc	barge capping
dp	downpipe
eg	eaves gutter
ex.	existing
fg	flashing
gu	gutter
mdr(1)	metal deck roof sheeting (type)
of	overflow
рс	parapet capping
pv	photovoltaic cells
rrc	roof ridge capping
rwh	rainwater head
sk	skylight/skytube
tf	tray flashing
vg	valley gutter
vof	vertical overflow
vp	vent pipe

*bushfire note:

the BAL 12.5 construction requirements of the development to be in accordance to bushfire report provided by Newcastle Bushfire Consulting Rev 4 dated 12 April 2023

*bushfire note:		
the BAL 12.5 cons of the developmer to bushfire report Newcastle Bushfir Rev 4 dated 12 Ap	truction requirements It to be in accordance provided by e Consulting ril 2023	
lopment	^{Title:} Floor Plans (Units 1-4)	
aryland	File: 2869.23_25-29 Prospero St, Maryland_Part 5.pln	^{Plotted:} 8/8/2023 2:10 pm

Status:	Part 5 Activity	Submission	
Date: 8/8/2023 Stage: Part 5 Drawing: DA07	Scale: 1:100 @ AI Drawn: MP/DD/AT Sheet: 7 8 0	s d job no: 2869.23 Checked: ML f 27	Project no. BGWY9 Approved: ML Rev: 04



9,190













First Floor Plan (Units 5-7) 1:100





Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting

Ph: (02) 8544 1683

Architect:



Project: General Housing Development
Title:
Floor Plans (Units 5-7)

at 25-29 Prospero Street, Maryland



16 November 2023

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Legend (floor plans) note: drawing may not contain all items listed below		
D01	door numbers (as scheduled) (prefix ex. for existing door)	
W01	window numbers (as scheduled) (prefix ex. for existing window)	
(a)	wall type (as scheduled)	
ac	air conditioner condenser	
acc adhc	accessible ageing, disability & home care	
amb	ambulant	
ap	access panel	
bai(1) bfc	broom finish concrete	
bol	bollard	
brm	broom cupboard	
bsn sf((4)	basin	
cπ(1)	ceramic floor file (type)	
cl	clothes line	
col	column	
comms	communication cabinet	
cpt(1)	carpet (type)	
dp	downpipe	
drp	doorpost	
edb	electrical distribution box	
ex.	existing	
fD(1) fbr	face brickwork (type)	
fp	feature panel	
fs	fridge space	
fw	floor waste	
gb at	garbage bin	
gt atd	gate grated drain	
hr(1)	handrail (type)	
ht	hose tap	
hwu	hot water unit	
nya kr	nydrant kerb ramp	
lb	letter box	
lin	linen cupboard	
mw	microwave	
ofc	off form concrete	
ps ptv	pantry	
ref	refridgerator	
rfm	recessed floor mat	
robe	wardrobe	
rw(1) rwt	rainwater tank	
snk	sink	
SC	steel column	
sfc	steel float concrete	
snr sk	snower skylight/skytube	
sl	sliding door	
st	store	
sv(1)	sheet vinyl (type)	
swp tasi	storm water pit	
vo		
wfc	wood float concrete	
wm	washing machine space	
wo	wall oven	
WS	wheel stop	
WCS	window casing	

Legend	(roof plans) may not contain all items listed below
ар	access panel
bc	barge capping
dp	downpipe
eg	eaves gutter
ex.	existing
fg	flashing
gu	gutter
mdr(1)	metal deck roof sheeting (type)
of	overflow
рс	parapet capping
pv	photovoltaic cells
rrc	roof ridge capping
rwh	rainwater head
sk	skylight/skytube
tf	tray flashing
vg	valley gutter
vof	vertical overflow
vp	vent pipe

*bushfire note:

the BAL 12.5 construction requirements of the development to be in accordance to bushfire report provided by Newcastle Bushfire Consulting Rev 4 dated 12 April 2023

File: 2869.23_25-29 Prospero St, Maryland_Part 5.pln ^{Plotted:} 8/8/2023 2:10 pm

Status: Part 5 Activity Submission S|d job no: Date: Scale: 8/8/2023 1:100 @ AI 2869.23 Stage:Drawn:Checked:Approved:Part 5MP/DD/ATMLMLDrawing:Sheet:Rev:DA089of2704

Project no.
BGWY
Approved:
ML
Rev:
$\Lambda \Lambda$



















02 First Floor Plan (Units 8-9) 1:100

Roof Plan (Units 8-9) 1:100

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

> Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting

Ph: (02) 8544 1683

Architect:



Project: General Housing Development
Title:
Floor Plans (Units 8-9)

at 25-29 Prospero Street, Maryland



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Legend	(floor plans) may not contain all items listed below
D01	door numbers (as scheduled) (prefix ex. for existing door)
W01	window numbers (as scheduled) (prefix ex. for existing window)
(a)	wall type (as scheduled)
ac	air conditioner condenser
acc adhc	accessible
amb	ambulant
ар	access panel
bal(1)	balustrade (type)
bol	broom finish concrete
brm	broom cupboard
bsn	basin
cft(1)	ceramic floor tile (type)
cj	control joint
col	column
comms	communication cabinet
cpt(1)	carpet (type)
ct	cooktop
ap drn	doornost
edb	electrical distribution box
ex.	existing
fb(1)	face brickwork (type)
fnr fn	fire nose reel
fs	fridge space
fw	floor waste
gb	garbage bin
gt atd	gate grated drain
hr(1)	handrail (type)
ht	hose tap
hwu	hot water unit
nya kr	nydrant kerb ramp
lb	letter box
lin	linen cupboard
mw	microwave
OfC DS	off form concrete
ps	pantry
ref	refridgerator
rfm	recessed floor mat
robe	wardrobe
rwt	rainwater tank
snk	sink
sc	steel column
STC shr	steel float concrete
sk	skylight/skytube
sl	sliding door
st	store
SV(1)	sheet vinyl (type) storm water pit
tgsi	tactile ground surface indicators
vp	vent pipe
wfc	wood float concrete
wm wo	wasning machine space wall oven
ws	wheel stop
wcs	window casing

Legend	(roof plans) may not contain all items listed below
ар	access panel
bc	barge capping
dp	downpipe
eg	eaves gutter
ex.	existing
fg	flashing
gu	gutter
mdr(1)	metal deck roof sheeting (type)
of	overflow
рс	parapet capping
pv	photovoltaic cells
rrc	roof ridge capping
rwh	rainwater head
sk	skylight/skytube
tf	tray flashing
vg	valley gutter
vof	vertical overflow
vp	vent pipe

*bushfire note:

the BAL 12.5 construction requirements of the development to be in accordance to bushfire report provided by Newcastle Bushfire Consulting Rev 4 dated 12 April 2023

File:

2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:10 pm

Status: Part 5 Activity Submission Date: Scale: S|d job no: 1:100 @ AI 2869.23 BGWY9 8/8/2023 Stage: Checked: Drawn: Part 5 MP/DD/AT ML ML Drawing: Sheet: Rev: DA09 10 of 27 04

Project no Approved:









Beck 16 November 2023

Legend	(elevation & sections)
note: drawing i	may not contain all items listed below
ac	air conditioner condenser
ag	ag pipe
alv	adjustable louvres
alw	aluminium framed window
bal(1)	balustrade (type)
bc	barge capping
bg	box gutter
boe	brick on edge
bws	brickwork sill
CTC	compessed fibre cement
CJ	control joint
conc.	concrete
CS	coved skirting
CSC	cut soldier course
ap	downpipe
arn	
ams	decorative metal screen
eg	eaves gutter
egi	existing ground line
ex.	existing
1 fb(1)	face briekwork (type)
fol	finished earling lovel
fCl ffl	finished floor level
flu	fixed louvroo
fn	feature papel
τμ ft(1)	fence (type)
	around line
gi at	giound inte
gi br(1)	bandrail (type)
in	insulated panel
mc(1)	metal cladding (type)
mdr(1)	metal deck roof (type)
mos	metal privacy screen
nc	non structural column
00	obscure glazing
ofc	off form concrete
olv	operable louvres
p(1)	paint (type)
pap(1)	perforated acoustic panel (type)
pbd	plasterboard
ps	privacy screen
pv	photovoltaic cells
rc	rendered concrete
rms	raked metal soffit
rp(1)	render & paint finish (type)
rs	roller shutter
rw(1)	retaining wall (type)
rwh	rainwater head
s	sliding sash window
SC	steel column
sk	skylight/skytube
sl	sliding door
ss(1)	sun shade (type)
ts	timber skirting
WCS	window casing
Fence Typ	е
ft(1)	1.8m high powdercoated metal slatted fence (horizontal)
ft(2)	1 8m high colorbond fonce
n(∠) ft(3)	2.1m high powdercosted
1(3)	metal slatted fence (horizontal)
ft(4)	0.9m high powdercoated

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<u> </u>	-+ -+		
<u> </u>	1,213	, 1,213	
m	2,700	2.700	
$\overline{\xi}$ $\underline{\xi}$	- + - + - 11;		
Ceiling RL: 28.200	200	200	
	2,700	2.700	
Ground Floor FFL: 25.500			

	The:
lent	Elevations - Sheet 1

2869.23_25-29 Prospero St, Maryland_Part 5.pln

2:10 pm

Status: Par	rt 5 Activity S	Submission	
Date:	Scale:	S d job no:	Project no.
8/8/2023	1:100 @ AI	2869.23	BGWY9
Stage:	Drawn:	Checked:	Approved:
Part 5	MP/DD/AT	ML	ML
Drawing:	Sheet:		Rev:
DA10	11 of	27	04

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant Greenview Consulting

Ph: (02) 8544 1683

Architect:

Stanton Dahl Architects

at

Project: Title: Ceneral Housing Development Elevations - Sheet 2

25-29 Prospero Street, Maryland

16 November 2023

_ <u>Ridge</u> <u>RL: 34.717</u>

_Ceiling RL: 33.700

_First Floor FFL: 31.000

Ground Floor FFL: 27.800

Ceiling RL: 30.500

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Legend	(elevation & sections)
note: drawing r	nay not contain all items listed below
ac	air conditioner condenser
alv	adjustable louvres
alw	aluminium framed window
bal(1)	balustrade (type)
bc	barge capping
bg	box gutter
boe	brick on edge
DWS	compessed fibre cement
ci	control joint
conc.	concrete
CS	coved skirting
CSC	cut soldier course
dp	downpipe
drh	door head
dms	decorative metal screen
eg	eaves gutter
eyi	existing ground line
f	fixed sash window
fb(1)	face brickwork (type)
fcl	finished ceiling level
ffl	finished floor level
flv	fixed louvres
fp	feature panel
ft(1)	fence (type)
gl	ground line
gi br(1)	gale handrail (type)
ip	insulated panel
mc(1)	metal cladding (type)
mdr(1)	metal deck roof (type)
mps	metal privacy screen
nc	non structural column
og	obscure glazing
ofC	off form concrete
o(1)	operable louvres
p(1)	perforated acoustic panel (type)
pbd	plasterboard
ps	privacy screen
pv	photovoltaic cells
rc	rendered concrete
rms	raked metal soffit
rp(1)	render & paint finish (type)
rs	roller shutter
rwh	rainwater bead
S	sliding sash window
SC	steel column
sk	skylight/skytube
sl	sliding door
ss(1)	sun shade (type)
ts	timber skirting
WCS	window casing
Fence Tvp	e
ft(1)	1.8m high powdercoated metal slatted fence (horizontal)
ft(2)	1.8m high colorbond fence
ft(3)	2.1m high powdercoated
	metal slatted fence (horizontal)
ft(4)	0.9m high powdercoated metal slatted fence (vertical)

File: 2869.23_25-29 Prospero St, Maryland_Part 5.pln Plotted: 8/8/2023 2:10 pm DA11 12 of 27 04

Status:	Part 5 Activity Submission			
Date:	Scale:	S d job no:		
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Stage:	Drawn:	Checked:		
Part 5	MP/DD/AT	ML		
Drowing	Choote			

Project no. BGWY9

Approved: ML

E08 Units 5-7 East Elevation 1:100

_ natural ground line _ shown dashed

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

do not scale drawings. check all dimensions on site. figured dimensions take precedence.

 04
 08/08/23
 Updated Part 5 Issue

 03
 10/05/23
 Part 5 Issue

 02
 26/04/23
 Part 5 Issue

 01
 14/04/23
 Part 5 Issue

Issue

Rev Date

Landscape Consultant: Botanique Design Mob: 0404 887 620 Greenview Consulting Ph: (02) 8544 1683

Stormwater Consultant:

Architect:

- tow: RL 26.075

fb(1)

Project: General Housing Development Title: Elevations - Sheet 3

at 25-29 Prospero Street, Maryland

16 November 2023

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—	
Legend	
note: drawing i	(elevation & sections) may not contain all items listed below
ac	air conditioner condenser
20	
ay	adjustable louvree
alv	aujustable louvies
alw	aluminum named window
DC	barge capping
bg	box gutter
boe	brick on edge
bws	brickwork sill
cfc	compessed fibre cement
cj	control joint
conc.	concrete
CS	coved skirting
CSC	cut soldier course
dp	downpipe
drh	door head
dms	decorative metal screen
eg	eaves gutter
eal	existing around line
ex	existing
f	fixed sash window
fb(1)	face brickwork (type)
fcl	finished ceiling level
ffl	finished floor level
111 fl. /	fixed lowroo
llV fro	
ip fr(4)	
π(1)	fence (type)
gl	ground line
gt	gate
hr(1)	handrail (type)
ip	insulated panel
mc(1)	metal cladding (type)
mdr(1)	metal deck roof (type)
mps	metal privacy screen
nc	non structural column
og	obscure glazing
ofc	off form concrete
olv	operable louvres
p(1)	paint (type)
pap(1)	perforated acoustic panel (type)
pbd	plasterboard
ps	privacy screen
pv	photovoltaic cells
rc	rendered concrete
rms	raked metal soffit
rn(1)	render & paint finish (type)
rs	roller shutter
$r_{\rm W}(1)$	retaining wall (type)
rwb	rainwater bead
	aliding each window
5	stool column
sc	
SK	
SI	
SS(1)	sun shade (type)
ts	timber skirting
WCS	window casing
Fence Typ	e
ft(1)	1.8m high powdercoated
	metal slatted lence (norizontal)
ft(2)	1.8m high colorbond fence
ft(3)	2.1m high powdercoated
	metal slatted tence (horizontal)
ft(4)	0.9m high powdercoated
	metal slatted fence (vertical)

← <u>Ridge RL: 33.242</u> O		
	2,700	
F <u>irst</u> F <u>loor FFL: 29</u> .700	6 742	
– – – – – – Cēilīng RL: 29.200 ⁰		
	2,700	
Ground Floor FFL: 26.500		

File:

^{Plotted:} 8/8/2023 2:10 pm

	Status: Pa	art 5 Activity	Submission	
	Date: 8/8/2023 Stage:	Scale: 1:100 @ AI Drawn:	S d job no: 2869.23 Checked:	Project no. BGWY9 Approved:
;	Part 5 Drawing: DA12	MP/DD/AT Sheet: 13 0	мг f 27	ML Rev: 04

Project no. BGWY9

Stanton Dahl Architects Ph: (02) 8876 5300

Project Architect:

Ph: (02) 8544 1683

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant Greenview Consulting Architect:

Project: General Housing Developm

at File: 25-29 Prospero Street, Maryland 2869.23_25-29 Prospero St, Maryland_Part 5.pln

flech

16 November 2023

alv	adjustable louvres
alw	aluminium framed window
oal(1)	balustrade (type)
C	barge capping
og	box gutter
oe	brick on edge
ows	brickwork sill
fc	compessed fibre cement
j	control joint
conc.	concrete
s	coved skirting
SC	cut soldier course
lp	downpipe
lrh	door head
lms	decorative metal screen
eg	eaves gutter
egl	existing ground line
ex.	existing
	fixed sash window
b(1)	face brickwork (type)
cl	finished ceiling level
fl	finished floor level
lv	fixed louvres
р	feature panel
t(1)	fence (type)
<u>j</u> l	ground line
jt	gate
nr(1)	handrail (type)
р	insulated panel
nc(1)	metal cladding (type)
ndr(1)	metal deck roof (type)
nps	metal privacy screen
IC	non structural column
bg	obscure glazing
ofc	off form concrete
vlv	operable louvres
b (1)	paint (type)
pap(1)	perforated acoustic panel (type)
bd	plasterboard
S	privacy screen
V	photovoltaic cells
с	rendered concrete
ms	raked metal soffit
p(1)	render & paint finish (type)
S	roller shutter
w(1)	retaining wall (type)
wh	rainwater head
5	sliding sash window
SC	steel column
sk	skylight/skytube
sl	sliding door
ss(1)	sun shade (type)
S	timber skirting
vcs	window casing
	C C
ence Type	e
t(1)	1.8m high powdercoated
-	metal slatted fence (horizontal)
t(2)	1.8m high colorbond fence
t(3)	2.1m high powdercoated
-	metal slatted fence (horizontal)
t(4)	0.9m high powdercoated
	metal slatted fence (vertical)

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note: drawing may not contain all items listed below

ag pipe

(elevation & sections)

air conditioner condenser

Legend

le	n	t

Title: Sections - Sheet 1

> Plotted: 8/8/2023 2:10 pm

Status:	Part 5 Activity		
Date:	Scale:	S d job no:	Project no.
8/8/2023	1:100 @ AI	2869.23	BGWY9
Stage:	Drawn:	Checked:	Approved:
Part 5	MP/DD/AT	ML	ML
Drawing:	Sheet:		Rev:
DA13	3 14 o	f 27	04

_ _ _ _ _ _ _ _ _ _ _ _ _ _

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Stormwater Consultant

Landscape Consultant: Botanique Design Mob: 0404 887 620 Greenview Consulting Ph: (02) 8544 1683

Architect:

Project: Title: General Housing Development Sections - Sheet 2

at 25-29 Prospero Street, Maryland

_ _Parapet RL: 33.200

______First Floor_FFL: 29.900

_Ground Floor_FFL: 26.700

⁻Ceiling RL: 29.400

_____<u>Ceiling RL:</u> 32.600

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Legend	d (elevation & sections)
note: drawin	air conditioner condenser
ac	ag pipe
alv	adjustable louvres
alw	aluminium framed window
bal(1)	balustrade (type)
bc	barge capping
bg	box gutter
boe	brick on edge
bws	brickwork sill
cfc	compessed fibre cement
cj	control joint
conc.	concrete
CS	coved skirting
CSC	cut soldier course
ap	downpipe
arn dmo	door head
ans	
eg	eaves guiler
ey	existing ground line
сл. f	fixed sash window
, fb(1)	face brickwork (type)
fcl	finished ceiling level
ffl	finished floor level
fl∨	fixed louvres
fp	feature panel
ft(1)	fence (type)
gl	ground line
gt	gate
hr(1)	handrail (type)
ip	insulated panel
mc(1)	metal cladding (type)
mdr(1)	metal deck roof (type)
mps	metal privacy screen
nc	non structural column
og	obscure glazing
ofC	off form concrete
OIV	operable louvres
p(1)	paint (type)
pap(1) pbd	plasterboard
ns	privacy screen
ps nv	photovoltaic cells
rc	rendered concrete
rms	raked metal soffit
rp(1)	render & paint finish (type)
rs	roller shutter
rw(1)	retaining wall (type)
rwh	rainwater head
S	sliding sash window
SC	steel column
sk	skylight/skytube
sl	sliding door
ss(1)	sun shade (type)
ts	timber skirting
WCS	window casing
Fence Ty	pe
ft(1)	1.8m high powdercoated metal slatted fence (horizontal)
ft(2)	1.8m high colorbond fence
ft(3)	2.1m high powdercoated
	metal slatted fence (horizontal)
ft(4)	0.9m high powdercoated metal slatted fence (vertical)

+ -+ -	Ceiling RL: 31.400
2.70	
	<u>First Floor FFL: 28</u> .700 Ceiling RL: 28.200
0 20	U U
2.1	Ground Floor FFL: 25.500

2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:10 pm

Status: Pa	art 5 Activity	Submission	
Date:	Scale:	S d job no:	Project no.
8/8/2023	1:100 @ AI	2869.23	BGWY9
Stage:	Drawn:	Checked:	Approved:
Part 5	MP/DD/AT	ML	ML
Drawing:	Sheet:		Rev:
DA14	15 of	f 27	04

DETERMINED by the NSW Land and Housing Corporation on:

Glein

note: shadows cast: existing neighbour buildings

0 2000 4000 6000 8000 10 000 20 000 scale: 1:200 @A1

flech

note: shadows cast: proposed buildings

note: shadows cast: existing neighbour buildings

0 2000 4000 6000 8000 10 000 20 000 scale: 1:200 @A1

Living Areas										
Solar Access	9am	10am	11am	12pm	1pm	2pm	3pm	То	tal	Complies
Unit 1	Y	Y	Y	Y	Y	Y	Y	6	hrs	Y
Unit 2	Y	Y	Y	Ν	Ν	N	N	3	hrs	Y
Unit 3	Y	Y	Y	Ν	Ν	N	N	2	hrs	Y
Unit 4	Y	Y	Y	Y	Ν	N	N	3	hrs	Y
Unit 5	Y	Y	Y	Y	Y	Y	Y	6	hrs	Y
Unit 6	Ν	N	N	Ν	Ν	N	Y	0	hrs	N
Unit 7	Ν	N	N	Ν	Ν	N	Y	0	hrs	N
Unit 8	Ν	Y	Y	Y	Y	Y	Y	5	hrs	Y
Unit 9	Ν	Y	Y	Y	Y	Y	Y	5	hrs	Y
Living areas of 70% of the dwellings must						Com	plies	- 7/9 = 78%		
receive a minimum of 2 hours of sunlight										
between 9:00am and 3:00pm on 21 June.										

Private Open	Space									
Solar Access	9am	10am	11am	12pm	1pm	2pm	3pm	То	tal	Complies
Unit 1	Y	Y	Y	Y	Y	Y	Y	6	hrs	Y
Unit 2	Y	Y	Y	Y	Y	Y	Ν	5	hrs	Y
Unit 3	Y	Y	Y	Y	Y	Ν	Ν	4	hrs	Y
Unit 4	Y	Y	Y	Y	Y	Ν	Ν	4	hrs	Y
Unit 5	Ν	Y	Y	Y	Y	Y	Y	5	hrs	Y
Unit 6	Ν	Ν	Ν	Ν	Y	Y	Y	2	hrs	Y
Unit 7	Ν	Ν	Ν	Ν	Y	Y	Y	2	hrs	Y
Unit 8	Ν	Ν	Y	Y	Y	Y	Y	4	hrs	Y
Unit 9	Ν	Y	Y	Y	Ν	Ν	Ν	2	hrs	Y
Private open space of 70% of			of the d	welling	s must		C	ompl	ies -	9/9 = 100%
receive a minimum of 2 hours of si				nlight b	etweer	า				
9:00am and 3	une.									

0208/08/23Updated Part 5 Issue0116/06/23Part 5 IssueRevDateIssue do not scale drawings. check all dimensions on site. figured dimensions take precedence. DETERMINED by the NSW Land and Housing Corporation on:

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Architect:

Project: General Housing Development Title: Shadow Diagrams - Sheet 3

at 25-29 Prospero Street, Maryland

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16 November 2023

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 Nominated Architects : S.M Evans 7686, D.M Bell 11076
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Legend shadow diagrams note: drawing may not contain all items listed below

note: shadows cast: proposed buildings

note: shadows cast: existing neighbour buildings

File:

2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:11 pm

Status: Part 5 Activity Submission
 Date:
 Scale:
 S|d job no:
 Project no.

 8/8/2023
 1:200 @ AI
 2869.23
 BGWY9

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 Drawn:
 Checked:
 Approved:

 Part 5
 MP/DD/AT
 ML
 ML

 Drawing:
 Sheet:
 Rev:
 02

Site View From Sun - 9am, June 21 not to scale (01

02 Site View From Sun - 10am, June 21 not to scale

Site View From Sun - 11am, June 21 not to scale (03)

Site View From Sun - 12pm, June 21 not to scale (04)

Architect:

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Project: General Housing Development Title: Site View From Sun - Sheet 1

at 25-29 Prospero Street, Maryland

flech 16 November 2023

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^{Plotted:} 8/8/2023 2:11 pm

Part 5 Activity Submission Status: 8/8/2023 2869.23 @ AI Stage: Drawn: Checked: Part 5MP/DD/ATMLDrawing:Sheet:Rev:DA1819of2705

Site View From Sun - 1pm, June 21 not to scale (01

02 Site View From Sun - 2pm, June 21 not to scale

03 Site View From Sun - 3pm, June 21 not to scale

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Architect:

Project: General Housing Development Title: Site View From Sun - Sheet 2

at 25-29 Prospero Street, Maryland

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File: 2869.23_25-29 Prospero St, Maryland_Part 5.pln ^{Plotted:} 8/8/2023 2:11 pm

Status: Part 5 Activity Submission

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8/8/2023 @ AI
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 ML

 Drawing:
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 Rev:
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 20
 of
 27
 05

Scale:

Date:

Project n 2869.23 BGWY9

POS View Units 1-4 - 9am, June 21 01 not to scale

POS View Units 1-4 - 10am, June 21 not to scale (02)

POS View Units 1-4 - 11am, June 21 (03) not to scale

POS View Units 1-4 - 12pm, June 21 not to scale 04

Architect:

do not scale drawings. check all dimensions on site. figured dimensions take precedence.

 02
 08/08/23
 Updated Part 5 Issue

 01
 16/06/23
 Part 5 Issue

Issue

Rev Date

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Project: General Housing Development Title: POS Views (Units 1-4) - Sheet 1

at 25-29 Prospero Street, Maryland

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16 November 2023

2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:11 pm

Part 5 Activity Submission Status: Date 8/8/2023 @ AI 2869.23

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 Stage:
 Drawn:
 Checked:
 Approved:

 Part 5
 MP/DD/AT
 ML
 ML

 Drawing:
 Sheet:
 Rev:
 Rev:

 DA20
 21
 of
 27
 02

POS View Units 1-4 - 1pm, June 21 (01 not to scale

POS View Units 1-4 - 2pm, June 21 not to scale (02)

POS View Units 1-4 - 3pm, June 21 not to scale (03)

 02
 08/08/23
 Updated Part 5 Issue

 01
 16/06/23
 Part 5 Issue

 Rev
 Date
 Issue

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Architect:

Project: General Housing Development
Title:
POS Views (Units 1-4) - Sheet 2

at File: 25-29 Prospero Street, Maryland

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Stanton Dahl & Associates Pty Limited. ABN 32 002 261 396 Nominated Architects : S.M Evans 7686, D.M Bell 11076 © Copyright 2023 Stanton Dahl

16 November 2023

2869.23_25-29 Prospero St, Maryland_Part 5.pln

Date:

Status: Part 5 Activity Submission

8/8/2023 @ AI Plotted: 8/8/2023 2:11 pm

Scale:

S|d job no:Project no.2869.23BGWY9

POS View Units 5-7 - 9am, June 21 not to scale (01

POS View Units 5-7 - 10am, June 21 not to scale (02)

POS View Units 5-7 - 11am, June 21 not to scale (03)

POS View Units 5-7 - 12pm, June 21 not to scale (04)

 02
 08/08/23
 Updated Part 5 Issue

 01
 16/06/23
 Part 5 Issue

 Rev
 Date
 Issue

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Project: General Housing Development Title: POS Views (Units 5-7) - Sheet 1

at 25-29 Prospero Street, Maryland

DETERMINED by the NSW Land and Housing Corporation on:

16 November 2023

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2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:11 pm

Status:	Part 5 Activity Submiss			
Date:	Scale:	S d job no:		
3/8/2023	@ AI	2869.23		

BGWY9 Part 5 MP/DD/AT ML ML Part 5 Sheet: Rev: DA22 23 of 27 02

POS View Units 5-7 - 1pm, June 21 not to scale (01

POS View Units 5-7 - 2pm, June 21 not to scale (02)

POS View Units 5-7 - 3pm, June 21 not to scale (03)

 02
 08/08/23
 Updated Part 5 Issue

 01
 16/06/23
 Part 5 Issue

 Rev
 Date
 Issue

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Architect:

Project: General Housing Development
Title:
POS Views (Units 5-7) - Sheet 2

at 25-29 Prospero Street, Maryland

Beck

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File: 2869.23_25-29 Prospero St, Maryland_Part 5.pln

Status: Part 5 Activity Submission

Scale: 8/8/2023 @ AI
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 Stage:
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 Approved:

 Part 5
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 Drawing:
 Sheet:
 Rev:
 Rev:

 DA23
 24
 of
 27
 02

Date:

S|d job no:Project no.2869.23BGWY9

POS View Units 8-9 - 9am, June 21 01 not to scale

POS View Units 8-9 - 10am, June 21 not to scale **02**)

POS View Units 8-9 - 11am, June 21 not to scale

POS View Units 8-9 - 12pm, June 21 not to scale (04)

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Project: General Housing Development
Title:
POS Views (Units 8-9) - Sheet 1

at 25-29 Prospero Street, Maryland

16 November 2023

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File:

2869.23_25-29 Prospero St, Maryland_Part 5.pln

^{Plotted:} 8/8/2023 2:11 pm

Status: Part 5 Activity Submission Date Scale

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 Drawing:
 Sheet:
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 25
 of
 27

BGWY9 ML of 27 02

2869.23

POS View Units 8-9 - 1pm, June 21 (01 not to scale

POS View Units 8-9 - 2pm, June 21 not to scale **02**)

POS View Units 8-9 - 3pm, June 21 not to scale (03)

do not scale drawings. check all dimensions on site. figured dimensions take precedence.

 02
 08/08/23
 Updated Part 5 Issue

 01
 16/06/23
 Part 5 Issue

 Rev
 Date
 Issue

Project Architect: Stanton Dahl Architects Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant: Greenview Consulting Ph: (02) 8544 1683

Architect:

Project: General Housing Development
Title:
POS Views (Units 8-9) - Sheet 2

at 25-29 Prospero Street, Maryland

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Status: Part 5 Activity Submission Date: Scale: S|d job no:

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 26
 of
 27
 02

Project no 2869.23 BGWY9

General Housing Development 25-29 Prospero Street, Maryland, NSW Lots 395-397, DP 702896

Face Brick - fb(1), rw(1) Austral - Bowral 76 Colour: Simmental Silver

Metal Cladding - mc(1) Fielders - Prominence Colour: Colorbond - Aries

Metal Cladding - mc(2) Fielders - Prominence Colour: Colorbond - Ironstone

Metal Roof Sheeting - mdr(1) Colorbond - Trimdek Colour: Ironstone

Retaining Wall - rw(2) Austral - GB Split Face Colour: Limestone

Rev	Issue	Date
01	Part 5 Issue	14/04/23
02	Part 5 Issue	26/04/23
03	Part 5 Issue	10/05/23
04	Part 5 Issue	16/06/23
05	Updated Part 5 Issue	08/08/23

16 November 2023

Juch Stanton Dahl Architects

PART 5 ISSUE

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Land & Housing Corporation, General Housing Development 25-29 Prospero Street, Maryland, NSW

External Colour Selection

Project No; BGWY9

Drawing No; Revision#; DA26 05

Scale; as noted @ A3

Drawn; MP/DD/AT

Plot date; 8/8/2023

Stanton Dahl Architects PO Box 833, Epping, NSW 1710 Tel +61 2 8876 5300 www.stantondahl.com.au

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16 November 2023

legend:

note: drawi items listed	ng may not contain all I below	tfc
RL00.00 -	proposed levels	tow
ac	air conditioner condenser	wfc
acc	accessible	c .64.5
adhc	ageing, disability & home care	1771
ар	access panel	s h
bal(1)	balustrade (type)	Ĺ Ĺ
bfc	broom finished concrete	L.
boe	brick on edge	
bol	bollard	1.
cl	clothes line	N I
col	column	_
dp	downpipe	
drp	doorpost	
ex.	existing	
fb(1)	facebrick work (type)	and the
ft(1)	fence (type)	8 Ar
gb	garbage bin	2 alas
gt	gate	CXXXX M
gtd	grated drain	
hr(1)	handrail (type)	
ht	hose tap	
hwu	hot water unit	
hyd	hydrant	
kr	kerb ramp	
lb	letter box	
ofc	off form concrete	
рр	power pole	
rw(1)	retaining wall (type)	
sfc	steel float concrete	•
swp	storm water pit	

Bech

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trowel finished concrete tactile ground surface indicator top of wall wood float concrete ex.contours & banking line

existing trees to be retained

existing trees to be removed

metal garden edging

fencing -for all fencing materials and types refer to the architects plans. proposed trees

planting areas

mulch path

turf

sandstone boulders

Planning for Bushfire:

Note: Design complies with the requirement of an asset protection zone as outlined in the planning for Bush Fire Protection (2019) Appendix 4 of the NSW RFS Standards for Asset Protection Zones.

Tree in maturity should not touch or overhang the building.
 Low limbs should be removed up to a height of 2m above the ground.

Grass should be kept mown (no more than 100mm in height)
 Landscape area should be maintained free of leaf litter and debris. The gutter and roof should be maintained

free of leaf littler and debris.

5. Ground fuels such as fallen leaves, twigs and branches should be removed on a regular basis. 6. Shrubs form 10% of the ground cover.

common name	mature height	quantity	pot size	stake
Blueberry Ash	12.0m	2	100L	yes
Crepe Myrtle	6.0m	2	100L	yes
Lilly Pilly	3.0m	85	200mm	no
NZ Rock Lily	0.9m	96	200mm	no
Guinea Flower	0.2m	25	140mm	no
Just Right	0.5m	111	140mm	no
Dwarf Mat Rush	0.5m	268	140mm	no
Creeping Boobiala	0.1m	314	140mm	no
Xanadu	0.6m	52	140mm	no
Tricolor Jasmine	0.2m	64	140mm	no
	common nameBlueberry Ash Crepe MyrtleLilly PillyLilly PillyNZ Rock Lily Guinea FlowerJust Right Dwarf Mat Rush Creeping Boobiala Xanadu Tricolor Jasmine	common namemature heightBlueberry Ash Crepe Myrtle12.0m 6.0mLilly Pilly3.0mLilly Pilly3.0mNZ Rock Lily Guinea Flower0.9m 0.2mJust Right0.5m 0.5mDwarf Mat Rush0.5m 0.5mCreeping Boobiala0.1m 0.6mXanadu0.6m 0.2m	common namemature heightquantityBlueberry Ash12.0m2Crepe Myrtle6.0m2Lilly Pilly3.0m85NZ Rock Lily0.9m96Guinea Flower0.2m25Just Right0.5m111Dwarf Mat Rush0.5m268Creeping Boobiala0.1m314Xanadu0.6m52Tricolor Jasmine0.2m64	common namemature heightquantitypot sizeBlueberry Ash Crepe Myrtle12.0m 6.0m2100L 100LLilly Pilly3.0m85200mmNZ Rock Lily Guinea Flower0.9m 0.2m96 25200mm 140mmJust Right0.5m111140mm 314Dwarf Mat Rush0.5m 0.1m268140mm 314Creeping Boobiala0.1m 0.6m314140mm 52Tricolor Jasmine0.2m 0.2m64140mm

Plotted: 18/5/2023 12:30 pm L01

Status: Part 5 Submission Date 1:100 @ AI 18/5/2023

> MM Sheet: 1

BGWY9 MI Rev: 6

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Part 5

Stage:

Checked of 3

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required. Twin 3.15mm twisted A continuous tree protection fence shall be erected around the perimeter of the tree protection zone (TPZ). Refer to (4) plan calculating the TPZ and should be situated as determined by the project arborist in accordance with AS4970 Protection of trees on development sites, Section 4, 4.3. The TPZ must be secured to restrict access. AS4687 Temporary fencing and hoardings specifies applicable fencing requirements.

> The tree protection fence shall be a minimum of 1800mm high chain link fabric on 2400mm star picket or 50mm dia gwi pipe anchor posts. They are to be driven 600mm into the ground ensuring fencing can not be moved, install diagonal cable bracing if required for stability.

Attach shade cloth or similar geotextile fabric to cover the fence panels and screen the TPZ from

The tree protection fence shall be installed prior to any demolition, clearing, grading or construction work. The tree protection fence is to remain in place in functioning condition until all construction is

No persons, vehicles, material, equipment or disposal of solid, liquid or chemical waste including concrete cleanup waste, painters waste or similar is permitted within the TPZ. No excavation or soil removal permitted within the

There is to be no storage of materials, rubbish, soil, equipment, structures or goods of any type to be kept or placed within 5 metres from the trunk or within the dripline of any tree for the duration of the development. This will ensure protection of the tree/s to be retained on or adjacent to site.

Signage A 600mm x 450mm prohibition sign complying with in accordance with AS4970 2009 Protection of trees on development sites stating "no entry-tree protection zone" and including the site foreman's contact details is to be attached to the fence, visible from all areas of the site. The sign is to remain in place until all onstruction has been completed.

> Tree protection fence installed around a tree at the perimeter of the tree protection zone (tpz). Anchor posts are to be located to avoid damage to tree roots greater that 25mm in diametre. À lockable gate can be installed in the fence if required for maintenance purposes.

For single trunk trees, The tpz is an area equivalent to a circle with a radius 12 x the trunk diameter (t) measured 1.5 metres above the ground.

ie. Single trunk tree with a 500mm trunk diameter (t) at 1.5 metres above the ground: $12 \times t(12 \times 500 \text{ mm}) = 6.0 \text{ m radius}$

For multi-trunk trees With more than 1 trunk arising below 1.5 metres above the ground level, the tpz is an area equivalent to a circle with a radius 10 x the trunk diameter (t) measured at the base of the trunk.

> Tree watering 1: 1st initial watering at the time of planting. Quantity of water will be that pot size.

- selected turf species

- imported topsoil to

- 150mm deep cultivated

Place shrub centrally in hole Tease roots out from root ball

75mm depth approved organic mulch as specified ensure mulch is clear of stem

Topsoil as specified. Topsoil depth varies for garden bed - types. Refer specification for topsoil depths. Apply approved slow release fertiliser as specified

Roughen interface between topsoil and subsoil

Excavate hole to the required size and roughen sides and - base of hole. Backfill with approved imported or site

- Rip subsoil to 200mm depth

Project Architect: Stanton Dahl Architects

Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

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Stormwater Consultant

Architect:

General Housing Developm

25-29 Prospero Street, Maryla

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- <u>Tree protection zone (TPZ)</u> The tree protection zone is the minimum area around a tree that must be left undisturbed to protect the root system and maintain the health and stability of the tree.
- The TPZ is calculated using the methodology detailed in drawing (4) and (5), based on the British Standard BS 5837:2005 trees in relation to construction recommendations. Note that distances are measured from the outside edge of the trunk of the tree.
- In some circumstances the TPZ may vary from the area calculated to take into consideration individual site factors - such as existing structures, the presence of rock outcrops or similar. Variations to the TPZ must be assessed and certified by an arborist.
- To help protect the tree a fence or similar barrier is generally erected around the perimeter of the TPZ refer to drawing (1).
- No trenching, excavation, soil level changes, storage of materials, disposal of waste, mechanical equipment or other construction activities are allowed in the TPZ. Minor works that do not adversely impact on the tree may be carried out in the TPZ under the direct supervision of an arborist.

adequate to saturate the root ball to its core. Tree watering 2: post planting, provide a minimum of 15 litres of water (for tree in a 45 litre pot) to the newly planted tree per 7 days. Water at a slow rate not to displace mulch. For trees in pot size larger than 45 litres, provide quantity of water on third of

All trees supplied must meet the criteria of AS2303-2018: tree stock for landscape use & be healthy specimens free of pests and diseases. Trees to be well watered of a maximum of 24 hours prior to planting

Set 3 of 50x50x2400mm hardwood stakes vertically and clear of root ball and canopy at 900mm spacing, offset a min. 200mm from - underground services to ensure no damage is caused to services. Stakes must be positioned so as to prevent damage to structural branches and prevent rubbing on branches.

50mm wide hessian ties of good quality wrapped around the trunk and nailed or stapled to the stake. Tree tie is to be positioned as high as possible, looped around the trunk and not the branches, and be loose, however still be tight enough to prevent excessive movement £

Position tree in hole with the top of the rootball at the same height as the surrounding ground and backfill with 50/50 blend of site soil and imported organic topsoil. Imported organic topsoil must be as per AS:4419 2003: soils for landscape & gardens. At the time of planting, if the roots are matted, slice the bottom 50mm off and apply the spade to the bottom in each quadrant.

Apply and spread mulch (as per AS4454-2012) to a depth of 150mm and 1200mm diameter from tree. No mulch is to be touching the tree.

Apply 500gms of gypsum to the planting site at a radius of a minimum 1200mm diameter from centre of hole. Apply 500gms of gypsum to inside of hole. Lightly compact soil at the base to prevent settling.

Excavate a planting hole with sloping sides 3 times the width of the rootball. Break up sides and base. If digging in soil of low permeability, the hole should be wider and deeper. In this instance backfill will be required at base of hole. - Augers are not to be used for excavation of the planting hole. Planting hole is to be watered prior to planting. No tree is to be planted into naturally waterlogged soil. If soil is waterlogged, planting must be rescheduled to allow sufficient time for the soil to dry out.

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Tree Planting Detail

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nent	Tree Protection & Deta	ails	Date: 10/5/2023	^{Scale:} 1:20, 1:10 @ AI	S d job no: 2869.23
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ind	_{File:} 230318 25-29 Prospero St, Maryland_Landscape.pln	^{Plotted:} 10/5/2023 9:48 am	Part 5 Drawing: LO2	MM ^{Sheet:} 0	мL f 3

LANDSCAPE NOTES:

GENERAL

1. The Landscape drawings have been based on site survey and building layout information. Check boundaries, levels, dimensions and locate services on site prior to starting work.

- 2. Landscape plans are to be read in conjunction with all architectural and other project consultant's drawings
- and specifications and with such other written instructions as may be issued during the course of the contract. 3. Any discrepancies between landscape/architectural or other project consultant's drawings shall be reported to
- the landscape designer prior to any works being carried out.
- 4. All works are to be carried out in accordance with drawing notation and/or written specifications where
- applicable. 5. Works and supply of materials not covered by drawing notation or written pecification are to be carried out in
- accordance with AS Codes, LCA guidelines and the By-Laws and Ordinances of the relevant Building Authority and/or manufacturer's recommendations as applicable. 6. All dimensions and locations of works are to be checked on site and confirmed by the landscape/building site
- supervisor prior to the commencement of any works. 7. Dimensions shall not be obtained by scaling from structural drawings. Dimensions are indicated in millimeters
- unless otherwise specified.
- 8. The contractor shall at all times implement adequate erosion and sediment control measures where applicable, (details noted on the construction management plan) 9. The position of services indicated on drawings (when applicable), are approximate and must be confirmed on
- site prior to the commencement of any site works. 10.Refer to Architectural drawings for fence types, retaining walls, paving and decking details.

AUSTRALIAN STANDARDS

All materials and workmanship should be in accordance with the relevant Australian standards:

- AS1684 Residential Timber Framed Construction Part 1
- AS1720.1 1997 (Amendment 4 2002) Timber Structures Design AS4419 - 2002 Soils for landscaping and Garden Use
- AS3600 2009 (Amendment 1 2012) Concrete Structures
- AS1012 Methods of Testing Concrete
- AS3610 1996 Formwork for Concrete

AS/NZ4455 - Part 1 2008 and Part 2 2010 Masonry Units, Pavers, Flags and Segmental Retaining walls - Masonry Units AS1428.1 - 2009 (Amendment 2010) Design for Access and Mobility - General requirements for Access - New

Building Works

AS1428.3 - 1992 Requirements for Children and Adolescents with Physical Disabilities All pavements shall comply with AS/NZS 4586:1999 standards Class W (low) for slip resistance

SERVICES

Before landscape work is commenced. The Landscape Contractor is to establish the position of all service lines and ensure tree planting is carried out at least 3 metres away from these services. Service lids, vents and hydrants shall be left exposed and not covered by any landscape finishes (turfing, paving, garden beds etc.) Finish adjoining surfaces flush with pit lids.

SITE PREPARATION

Clear site of any builders rubbish and set up erosion and sediment control as per councils requirements All existing trees and/or vegetation to be retained, is to be preserved and protected from any damage occurring during the execution of landscape works. The root systems of existing retained plants are not to be disturbed. Landscape operations carried out within the root zone is to be carefully carried out using hand tools. Storage of materials, Mixing of materials, vehicular parking, disposal of building materials and stockpiling shall not be carried out within 3m of the drip line of these trees/vegetation. Grade site to achieve proposed final grades. Stockpile soil if suitable for reuse or provide landscape soil that meets Australian Standards to replace site top soil.

DRAINAGE.

Subsoil drainage: Where applicable, flexible 90mm subsoil, socked, drainage coil is to be installed to all planting areas defined by retaining walls, interfaces between planting/lawn areas and paving, kerb lines, footpath edges etc. on natural ground. The subsoil drainage lines are to be installed and covered with free draining gravel at the base of retaining walls and planting areas, as above, and sufficiently buried to ensure they are covered with 100mm free draining gravel and 150mm topsoil. The gravel is to be covered with 3-4 oz non-woven filter fabric. Surface drainage: The contractor is to ensure adequate drainage is provided to all newly paved/hard surface areas, linking either to existing drainage sump pits or to new pits constructed by the contractor. The Subsoil and Surface drainage system is to be linked to the site's storm water system.

SOIL PREPARATION

Soil compliance - Soil test results must confirm compliance of the proposed soil with AS 4419 and the "Soil type(s)" specified below as defined by AS 4419-2003. Soil for landscaping must be site soil or imported topsoil that is tested for horticultural suitability by a NATA accredited laboratory and provide for the site specific vegetation performance objectives. A qualified Agronomist must provide certification that soil amelioration works have been undertaken in accordance with the conditions and relevant specification, approved documentation of all relevant approvals

Phosphorus levels in soil - For phosphorus-sensitive plants (i.e. many natives) ensure the soil complies with paragraph 5.8 (page 8) of AS4419. Vitrogen- Include / apply plant-available nitrogen for low nitrogen mulches to prevent nitrogen deficiency from

All proposed planting areas are to be deep ripped to a depth of 300mm and clay soils are to be treated with a

clay breaker. If existing top soil suitable for reuse it may be reused. 75mm depth of ANL Organic Garden Mix to be imported and combined with 25mm depth Greenlife compost or approved equivalent. Additive to be to a depth of 100mm, cultivated with existing garden bed soil to 250mm depth. Weed matting (non-plastic type) to be provided under all private courtyard garden beds. Install 75mm of selected mulch.

NEW PLANTING

All plants shall be true to type and size, conform with those species listed in the Plant Schedule on the drawings, be vigorous, well established, of good form consistent with species or variety, not soft or forced, free from disease or insect pests with large healthy root systems and no evidence of having been restricted or damaged. Immediately reject dried out, damaged or unhealthy plant material before planting. All stock is to be container grown for a minimum of six (6) months prior to delivery to site.

Plants shall have been hardened off and suitable for planting in the climatic conditions prevailing at the site. Trees shall be of uniform appearance and have a single leading trunk and proportionate and balanced crown. The Contractor shall be responsible for the health of plants from time of delivery, and no consideration will be given to any claim arising from the Contractors neglect or failure to observe any defects in the plants at time of

deliverv Remove plant from container without disturbing the root ball and place centrally and plumb in the hole with the top of the root-ball level with the surrounding surface level. Backfill root-ball with an Organic garden soil-mix, lightly tamp and water thoroughly to eliminate air pockets.

Install plant material as per plan. Keep planting areas moist, stake plants as required and 'water in'. Ensure soil-mix is not placed over the top of the root-ball and that the plant stem remains the same height above the ground as it was in the container. Soil-mix for backfilling of plants shall conform to AS4419-1998. Weed matting (non-plastic type) to be provided under all private courtyard garden beds.

TREES

Refer to Tree Planting Detail when applicable.

The trees shall comply with NATSPEC Specifying Trees: a guide to assessment of tree quality (2003) or Australian Standard AS 2303 – 2015 Tree stock for landscape use, and be planted and maintained in accordance with Councils street tree planting specifications. Install root barrier to site services as required.

STAKING AND TYING

Stakes shall be straight hardwood, free from knots and twists, pointed at one end and sized accordingly to plant size to be staked. $1 \times (1200 \times 25 \times 25 \text{ mm})$ a) 5_{151} not size

a) 5-15L pol size	T X (TZOU X ZO X ZOMIN)
b) 35-75L pot size	2 x (1500 x 38 x 38mm)
	0 (1000 50 50)

c) 100L & greater pot size 3 x (1800 x 50 x 50mm) Ties shall be 50mm wide hessian webbing or approved equivalent nailed or stapled to stake. Drive stakes a

minimum one third of their length, avoiding damage to the root system, on the windward side of the plant.

TURF

Excavate/ grade areas to be turfed to 120mm below the required finished levels. Do not excavate with 1500mm of any existing tree to be retained. Ensure that all of the surface water runoff is to be directed towards the inlet pits, kerbs etc. and away from buildings. Ensure that no pooling or ponding will occur. Rip subgrade to 150mm deep. Install 100mm depth of 5 parts imported topsoil mixed with 1 part compost. Just prior to spreading turf, spread 'shirleys no. 17 lawn fertiliser' over the topsoil at the recommended rate. Lay Sir Walter Buffalo turf rolls closely butted. Fill any small gaps with topsoil. water thoroughly.

PROTECTION OF EXISTING TREES

Protection of existing trees to be retained on site, trees shall be adequately protected to council requirements for the duration of the building contract. Storage of materials, mixing of material, vehicular parking, disposal of building materials and stockpiling shall not be carried out within the drip line of these trees. Any roots damaged during the building operations shall be cleanly cut off inside the damaged or exposed area. Trees are to be monitored for health during the building contract ensuring the root zone has not been damaged or

Tree root pruning shall be undertaken by an experienced Arborist with a qualification in tree surgery.

has dried out.

MULCHING

On completion of planting, all areas are to be mulched using non toxic Cypress Mulch or similar that meets Australian Standards to a depth of 75m. A water catchment dish is to be provided around the base of each plant. Keep mulch clear of all plant stems and rake to an even surface finishing 25mm below adjoining levels. Ensure mulch is watered in and tamped down during installation. Keep mulch clear of any plant stems.

FERTILISER

MASS PLANTING AREAS: All newly planted areas are to be fertilised with an organic life, slow release fertiliser (Osmocote 8-9 month / Agriform (R) 21g) which is to be adequately watered in. Native plants with Osmocote zero Phosphorus 5-6 month slow release. Apply as per manufacturer's instructions. ADVANCED TREES: Pellets shall be in the form intended to uniformly release plant food elements for a period of approximately nine months equal to Shirleys Kokei pellets, analysis 6.3:1.8:2.9. Kokei pellets shall be placed at the time of planting to the base of the plant. 50mm minimum from the root ball at a rate of two pellets per 300mm of top growth to a maximum of 8 pellets per tree.

METAL EDGING

Metal edging shall consist of 100 x 5mm, galvanized, flat bar steel, secured in place with either 75x25x300mm treated pine pegs driven into the ground, or with 400mm re-inforced rod welded to steel at 1000mm centers and hammered into the ground. Edging is to finish flush with adjoining lawn surfaces with the pegs recessed 20mm below top of edging. In general edging is to be provided at all interfaces between lawn and planting areas.

BOULDERS

Approx. 300mm - 600mm sandstone boulders. Ensure boulders have a flat base and are stable.

LANDSCAPE MAINTENANCE PROGRAMME

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. This shall include, but shall not be limited to, watering, mowing, fertilising, reseeding, re-turfing, weeding, pest and disease control, staking and tying, replanting, cultivation, pruning, aerating, renovating, topdressing, maintaining the site in a neat and tidy condition as follows:-

1.0 GENERAL

The landscape contractor shall maintain the landscape works for the term of the maintenance (or Plant establishment) period to the satisfaction of the council. The landscape contractor shall attend to the site on a weekly basis. The maintenance period shall commence at handover and continue for a period of 52 weeks maintenance for the Post- Completion Period which also includes a 3 Month Maintenance period for minor building matters.

2.0 WATERING.

Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth. The minimum acceptable watering required is equal to 25mm of natural rainfall or its applied equivalent during each period of one (1) week, around individual plants, maintain a completely weed and grass free watering saucer of a minimum diameter of one (1) metre.

3.0 RUBBISH REMOVAL

During the term of the maintenance period the landscape contractor shall remove rubbish that may occur and reoccur throughout the maintenance period. This work shall be carried out regularly so that at weekly intervals the area may be observed in a completely clean and tidy condition.

4.0 REPLACEMENTS

The landscape contractor shall replace all plants that are missing, unhealthy or dead at the Landscape Contractor's cost during the maintenance period. Replacements shall be of the same size, quality and species as the plant that has failed unless otherwise directed by the Landscape Architect. Replacements shall be made on a continuing basis not exceeding two (2) weeks after the plant has died or is seen to be missing.

5.0 STAKES AND TIES The landscape contractor shall replace or adjust plant stakes, and tree guards as necessary or as directed by the Landscape Architect. Adjust ties to give adequate support to the plants, replace broken or damaged ties as necessary and straighten stakes. Remove stakes and ties at the end of the maintenance period if so directed.

6.0 PRUNING Trees and shrubs shall be pruned as directed by the Landscape Architect. Pruning will be directed at the maintenance of the dense foliage or miscellaneous pruning and beneficial to the condition of the plants to improve plant shape and form or to clear footpaths and driveways. Any damaged growth shall be pruned. All pruned material shall be removed from the site.

7.0 MULCHED SURFACES

All mulched surfaces shall be maintained in a clean and tidy condition and be reinstated if necessary to ensure that a depth of 75mm is maintained. Ensure mulch is kept clear of plant stems at all times.

8.0 PEST AND DISEASE CONTROL

Control pathological diseases or insect pests by physical removal. Where physical removal is not possible use registered non-toxic sprays, applied in accordance with manufacturer's instructions.

9.0 WEED ERADICATION

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide (eg. 'Roundup') in any of its registered formulae, at the recommended maximum rate. Regularly remove by hand, weed growth that may occur or recur throughout grassed, planted and mulched areas. Remove weed growth from an area 750mm diameter around the base of trees in grassed areas. Continue eradication throughout the course of the works and during the maintenance period.

10.0 FERTILISING Apply follow up concentrated organic fertiliser to all turfed areas once during the maintenance period 10 weeks after completion.

11.0 LAWNS Mow at max 10-day intervals, trimming all edges, remove all weed growth or grass around base of all plants in turf or by hand in grass areas within the isolated planting area edging and within one (1) metre diameter area in grass, do not use nylon line type edge trimmers around base of trees - replace or repair failed turf and bare patches.

12.0 SOIL SUBSIDENCE

Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the landscape contractor at no cost to the client.

IRRIGATION

SCOPE OF WORKS

PERFORMANCE STANDARDS

PLANTING TYPE

DESIGN REQUIREMENTS

P1 (Week 1)

150-200mm

300-400mm

100L-400L

ONGOING MAINTENANCE SCHEDULE OF PLANTING AND TURF AREAS

OCCUPATIONAL HEALTH AND SAFETY (OHS)

Services are to be provided safely and in accordance with relevant OHS regulations and with continual regard for the safety of the public and developer employees. MOWING

- All grassed areas shall be maintained in a weed free state. Weed growth with grass areas must not exceed 10% of the total grass area. - Grass clippings shall be distributed evenly over the surface and at no time shall the layer of clippings
- be at such a depth that it will affect or damage the lawn area. - Ensure one does not mow over any litter or debris. Prior to mowing, all areas shall be inspected and are to be cleared of litter and debris, including but not limited to paper, plastic, glass, rocks, branches, garden refuse, timber, spoil, etc. Such material shall be disposed of off-site. The contractor must take an environmentally responsible approach to the collection, sorting and recycling (where appropriate) of materials collected in the interests of waste minimisation. Green waste recycling is encouraged.
- Sharps are to be collected by the developer and disposed of appropriately. The contractor should be fully aware of the associated problems of needle stick injury and therefore handle sharps accordingly. Grass height shall be kept between 40 mm – 70mm in height.
- All turf is to be cut evenly and sharply across the surface to a height of 40mm. The method of measurement of the mowing height shall be the average height from the ground to the uppermost extent of the blades when held up vertically. No more than one-third (1/3) of the grass length should be removed in any one mowing.
- Wherever possible grass shall be cut in parallel lines so that all grassed areas are left with a neat and tidy appearance. On successive cuts the grass must be mowed in the opposite direction or at variable directions, to avoid windrows developing and to prevent grass seed stalks lying in one direction and remaining uncut. After mowing, all hard surfaces such as footpaths and roads shall be cleared of cut material
- The needs of the public must be considered before mowing commences. At all times, the contractor must be courteous and respectful of the needs of these users. All nature strips abutting reserves or Council-managed facilities shall be mown and maintained to the
- same standard as the facilities. The contractor should use discretion in the selection of appropriate machinery suited to the task and must take into consideration ambient site conditions. Ground surface damage as a result of the use of machinery inappropriate to the conditions will be the responsibility of the contractor to reinstate.

Monthly:

Weeding - Weed garden areas manually or with approved herbicide. Prior approval required for Herbicide use. Approved Herbicide use to be in accordance with regulation rates and manufacturer's recommendation. Protect plants from overspray and avoid if rain is likely within 12 hour period. Prevent reproduction of weeds by removal of seedlings and established weeds before seed set. This work should be carried out regularly at least once a month so that the planted and mulched areas are weed free when observed at monthly intervals. Leaf Litter Removal - Do not remove leaf litter from planted areas unless depth of litter is impacting on plant

growth. Remove leaf litter from pathways Pest & Disease Control - Check for incidence of fungal and insect attack. Avoid use of chemical sprays Apply appropriate treatment for fungal and insect attack if necessary subject to approval Plant Removal and Replacement - Inspect for failed or dying plants requiring replacement and record probable

cause. Replant after dead or failed plant removal. Mulch - Ensure mulch is kept clear of plant stems at all times. Drainage pits are to be cleared of mulch and other material regularly so that all pits are cleared when observed at monthly intervals or after significant storm events. Check irrigation system is operating correctly.

Mulching - Reapply mulch to maintain to a depth of 75mm Plant Fertiliser - Fertilise all plants at specified rates based on soil testing results. Prior approval required for fertiliser use. Slow release fertiliser N:P:K ratio- 18:3:10 at manufacturer's recommended rate per plant. Initial fertilising at planting based on soil testing results

Pruning & Trimming - Shrubs & groundcover - Tip prune to encourage density. Length removed depending on vigour of previous plant growth. Pruning should reflect the natural growth, flowering and regrowth habit of the individual species. Generally prune after flowering. Prune hedges in late Spring. Turf Fertiliser - Apply fertiliser at rates as recommended by manufacturer

Turf Mowing - Every 3 weeks in spring & autumn Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees. Turf Decompaction & Aeration - Inspect for compaction and thatching. Carry out aeration treatment if required.

Carry out with dethatching or verticutting equipment.

Pruning & Trimming - Climbers - Prune long leaders which cannot be reattached to climbing frame. Train leaders onto wires.

Turf Mowing - Every 2 weeks in summer. Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees.

Turf Fertiliser - Apply fertiliser at rates as recommended by manufacturer.

Furf Mowing - Every 3 weeks in spring & autumn Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees.

Pruning & Trimming - Shrubs & groundcover - Tip prune to encourage density. Length removed depending on vigour of previous plant growth. Tip pruning involving the removal of the top 25mm or growing tip of each branch, should be used with shrubs and groundcover to encourage development of new shoots during the active growing season. Be careful not to remove the buds before the flowering season in those plants that have terminal flowers. Prune hedges.

Turf Mowing - Every month in winter. Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees

Turf Replacement - Inspect for failed turf requiring replacement and record probable cause.

As Required

Pest & Disease Control - Check for incidence of fungal and insect attack. Avoid use of chemical sprays Apply appropriate treatment for fungal and insect attack if necessary subject to approval. If chemical control is considered necessary, these should be mixed and applied in strict accordance with manufacturer's directions. Do not spray in windy or extreme weather.

Plant Removal and Replacement - Replant after dead or failed plant removal. All plants that have died or failed (lost more than 50% of their normal foliage cover) shall be replaced with the same species and commercially available size as the plant to be replaced. Generally plant material shall be uniformly high quality stock equal to best available for 'retail sale'. The root systems shall be balanced in relation to the size of the plant. Plants shall be healthy well grown, hardened off specimens of good shape and free from pests and diseases and in accordance with 'Specifying Trees: a guide to assessment of tree quality' (Clark 2006).

Pruning & Trimming - Remove deadwood from trees if required. Pruning should reflect the natural growth, flowering and regrowth habit of the individual species. Generally prune after flowering. Pruning will be directed at the maintenance of the dense foliage or miscellaneous pruning and beneficial to the condition of the plants to improve plant shape and form or to clear footpaths and driveways. Any damaged growth shall be pruned. All pruned material shall be removed from the site. Train leaders of climber onto wires. Weed Control in Turf - Remove weeds from turf areas manually or with approved herbicide in accordance with

manufacturer's recommendation Turf Replacement - Remove failed turf, prepare surface & lay new turf in accordance with original turf specified. Watering - Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth.

The minimum acceptable watering required is equal to 25mm of natural rainfall or its applied equivalent during each period of one (1) week, around individual plants, maintain a completely weed and grass free watering saucer of a minimum diameter of one (1) metre. Stakes and Ties - Replace or adjust plant stakes, and tree guards as necessary. Adjust ties to give adequate

support to the plants, replace broken or damaged ties as necessary and straighten stakes. Remove stakes and ties after one year. Mulch - Ensure mulch is kept clear of plant stems at all times. Drainage pits are to be cleared of mulch and other

material regularly so that all pits are cleared when observed at monthly intervals or after significant storm events. The overflow area is to be cleared of weeds on a regular basis and particularly after significant storm events. Check irrigation system is operating correctly.

Check paved areas and clean if slippery with a high pressure hose. Check retaining walls and planter boxes for signs of failure. Check seats and tables for signs of wear and tear and ensure all fastenings are secure. Maintain BBQ s per manufacturer's details (if required).

Planning for Bushfire:

Stormwater Consultant

Ph: (02) 8544 1683

Greenview Consulting

Note: Design complies with the requirement of an asset protection zone as outlined in the planning for Bush Fire Protection (2019) Appendix 4 of the NSW RFS Standards for Asset Protection Zones. 1. Tree in maturity should not touch or overhang the building.

2. Low limbs should be removed up to a height of 2m above the ground. 3. Grass should be kept mown (no more than 100mm in height)

4. Landscape area should be maintained free of leaf litter and debris. The gutter and roof should be maintained

free of leaf littler and debris. 5. Ground fuels such as fallen leaves, twigs and branches should be removed on a regular basis.

6. Shrubs form 10% of the ground cover.

Architect:

General Housing Development | Landscape Specification and

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stanton Dahl Architects

Project Architect:

Ph: (02) 8876 5300

scratched. EXISTING SERVICES by the Contractor.

STOCKPILING

operations:

HEALTH AND SAFETY

services prior to excavation.

ENVIRONMENTAL PROTECTION

HOLD POINTS

designated representative:

nd of the irridation prodramm - Practical completion of the works.

AS CONSTRUCTED DRAWINGS equipment.

OPERATION MANUAL

 Operating instructions for the system; Programming instructions for the control system; Details of all equipment used in the system; - Recommendations for the frequency of irrigation; and Full maintenance and servicing instructions.

MAINTENANCE PERIOD

The Contractor will be responsible for maintaining the works for 12 months after the issuance of the Certificate of Practical Completion. Towards the end of the Maintenance Period the Superintendent or their representative will inspect the work with a soil moisture probe which is to be supplied by the Contractor. The Superintendent or their representative may direct the contractor to excavate any areas that appear to be of concern due to the state of health of the plants or the results of the soil moisture probe. The excavation and repair of any damaged equipment will be deemed to have been included. Refer to Architectural drawings for fence types, retaining walls, paving and decking details.

Stanton Dahl & Associates Ptv Limited, ABN 32 002 261 396 ominated Architects : D.P Stanton 3642, S.M Evans 7686 © Copyright 2023 Stanton Dahl

The contractor (as part of a Design & Construct (D&C) contract) is to design, supply, and install a sub-surface irrigation system. Irrigation is to be provided to all mass planting areas and tree pits. Refer to Landscape Plan for

16 November 2023

There will be one central control room (Location to be confirmed), this is where the timer panel will be located. The solenoid and tap locations are to be confirmed on site by superintendent.

Council states the need to conserve water and this requirement is expected to be factored into the design and construction of the irrigation systems.

Contractor is to coordinate with client regarding entitlement boundaries. Irrigation zoning to suit

The Contractor is responsible for the design, supply, and install an irrigation system that will reliably supply sufficient water to sustain the gardens specified. The following table presents the assessed water demand for the different types of plants to be planted. It is a requirement that the irrigation system is able to supply at least these quantities of water.

PERIOD

P2 (Week 2 to 3) P3 (Week 4 to Week 52) 1.5 L / Day 0.5 L / Days 1.5 L / Days 3 L / Day 9 L / Day 4.5 L / Days

Ongoing Irrigation IL/Week 3 L / Week 5L / Week

15L / sqm per week during summer - 7L / sqm per week during winter

Each component of the irrigation system and the overall design is required to confirm to all pertinent Australian

The Contractor's D&C Irrigation Plan will provide the following information for review and approval. - An overview of the system including a sketch plan showing the intended layout; - The pipeline diameter (inner diameter), material, rating and methods of joining (if joints are applicable); - The depth the pipeline will be buried and the off-set distances to any shrubs, paths, road or building; - The brand and model of any pumps to be installed, including a copy of the pump curves and the approximate difference in elevation between from the high and low points of the system and the location of the pump; and - The proposed location and brand of any ancillary equipment such as valves, solenoids, and/or soil moisture probes or measuring gauges and any measures to protect against corrosion.

The Contractor will also provide a short description listing: Features of the irrigation system that help conserve water

- How the system is designed to operate – for example does it offer flexibility of automatic and manual

 How the risk of root intrusion is addressed; - The length of warranty of all equipment provided; A brief description of the maintenance requirements of the system; - Any additional features of the system which is considered to enhance water conservation.

The Contractor will be responsible for Health and Safety of the works and ensuring any excavations are adequately barricaded and or covered. The Contractor is also to ensure that they know the location of existing

The Contractor is to agree the location of any stockpile areas with the Superintendent in advance. The stockpile location must not interfere with traffic or pedestrian access. The Contractor is to take care to protect materials from the elements as appropriate, and for example should not allow pipes to be exposed to sunlight for prolonged periods of time, or placed in a position where they may be

The Contractor will be held responsible for any damage to existing services or infrastructure on the site caused

The Contractor is to manage the works in a way that will protect the environment. This is expected to include stopping sediment entering the stormwater drains, and avoiding wasting water. Any costs associated with protecting the environment are to be incorporated into the Contractor's fee.

The Contractor will provide 48 hours notice for the following inspections from the Superintendent or their

- Arrival to site of pipelines and pumps. These are to be inspected to check the integrity and brand of the materials prior to installation. In particular it will be checked that the pipes are not too scratched; Installation of the pipework prior to backfill. The Superintendent or their representative will visually inspect the irrigation system before it is backfilled. The testing will check that the integrity of the irrigation system is intact and that an adequate supply of water is distributed throughout the pipelines; system; and

The Contractor shall submit "As Constructed" drawings of the irrigation system before Practical Completion will be awarded. The As Constructed drawings will be prepared to the same scale and on the same sized standard sheets as the approved design drawings and will show the locations and depths of all pipelines and ancillary

The Contractor will provide an Operating Manual prior to Practical Completion which will contain:

The Contractor will provide two copies of the Operation Manual to the Superintendent.

Maintenance Plan

25-29 Prospero Street, Maryland

230318 25-29 Prospero St, Maryland Landscape.pln

Plotted: 10/5/2023 9:41 am

Status: Part 5 Activity Submission S d job no:

10/5/2023

Stage:

Part 5

Drawing:

L03

@ AI Drawn: MM Sheet:

Project n 2869.23 BGWY9 ML

Checked: ML 3 **O**

GENERAL NOTES

- I. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION. 2. THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN.
- 3. IT IS THE RESPONSIBILITY OF THE TENDERER TO SEEK CLARIFICATION WHERE DOCUMENTATION IS CONFLICTING OR UNCLEAR WHERE NO CLARITY IS OBTAINED. THE TENDERER IS TO ALLOW FOR BOTH INTERPRETATIONS IN THEIR PRICING
- 4 CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER.
- 5. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.
- 6. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
- 7. ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS
- 8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC
- ROADS PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED. 9. THESE PLANS SHALL BE A READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS SPECIFICATIONS CONDITIONS
- OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS. 10. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
- 11. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION. 12. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED
- GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES 13. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE COLLARS FITTED EXCEPT FOR CLASS 1 BUILDINGS
- 14. ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1.0m SHALL BE PROVIDED WITH GALVANIZED STEP IRON'S AT 300 mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN
- ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS4198-1994. 15. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON SITE DETENTION STORAGE SHALL BE OF A NON-FLOATABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. BARK MULCHING
- SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA. 16. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER
- IMMEDIATELY 17. GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY
- SURVEY INFORMATION PROVIDED ON THIS DRAWING. 18. ALL LEVELS SHOWN ARE EXPECTED TO BE TO A.H.D.
- 19. ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN MILLIMETRES, UNLESS NOTED OTHERWISE.
- 20. THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN PROVIDED BY THE ARCHITECT
- 21. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR 22. W.A.E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED
- PRIOR TO CERTIFICATION OF DRAINAGE. 23. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT
- APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES WITHOUT WRITTEN APPROVAL
- 4 WATER TREATMENT DEVICES TO STRICTLY COMPLY WITH MANUFACTURING SPECIFICATIONS.

RAINWATER REUSE SYSTEM NOTES

- RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
- 2. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE RAINWATER SUPPLY
- 3. PROVIDE AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK
- 4. PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN WATER SUPPLY FOR FIRE FIGHTING.
- 5. PROVIDE APPROPRIATE FLOAT VALVE AND/OR SOLENOID VALVES TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL.
- 6. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS/NZ3500.1 NATIONAL
- PLUMBING AND DRAINAGE CODE. 7. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT
- BY A LICENSED ELECTRICIAN. 8. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER
- TANK SURFACE WATER INLETS ARE NOT TO BE CONNECTED 9. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMPING ARE TO BE APPROVED MATERIALS TO AS/NZ3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR
- FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE WITH AS1345) 10. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELLED 'RAINWATER' ON A METALLIC SIGN IN ACCORDANCE WITH AS1319
- 11. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY
- 12. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE SEALED UP TO GUTTER LEVEL AND BE PRESSURE TESTED AND CERTIFIED 13. TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE
- SATISFACTION OF THE REGULATORY AUTHORITY. THIS MAY REQUIRE PROVISION OF
- 13.1. PERMANENT AIR GAP 13.2. BACKFLOW PREVENTION DEVICE

SAFETY IN DESIGN NOTES

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING. WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR. OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS. GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

5 10.05.2023 JPS PART 5 ISSUE

4 26.04.2023 JPS PART 5 ISSUE

REV. DATE BY

EARTHWORK NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT OF THE PROPOSED DEVELOPED AREA.
- PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS PRIOR TO ANY BULK EXCAVATION. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE FROM SITE, EXCEPT TOP SOIL FOR RE-USE.
- 5. CUT AND FILL OVER THE SITE TO LEVELS REQUIRED. PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND,
- PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES. 7. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE
- COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%. 8. FOR ON SITE FILLING AREAS, THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO
- COMMENCING FILL OPERATIONS. 9. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE. THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.
- 10 FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1). MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR
- FILL TO APPROVAL 11. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA LABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE AI LOWED FOR BY THE BUILDER.
- 12. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ. 13. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL PAVEMENT
- 14. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED.

DRAINAGE INSTALLATION

RCP CONVENTIONAL

- **INSTALLATIONS & ROAD CROSSINGS** 1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN
- ACCORDANCE WITH THESE DRAWINGS. THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN
- STANDARDS. BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH
- SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR
- PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA. BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS:

a.COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE FOLLOWING GRADINGS

М	19	2.3600	0.6000	0.3000	0.1500	0.0750
% MASS PASSING	100	50-100	20-90	10-60	0-25	0-10

-AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726.

b.BEDDING DEPTH UNDER THE PIPE TO BE 100mm

c.BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS **REPRESENTS THE 'HAUNCH ZONE**

d.THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS MATERIAL

e.COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED

ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT

ROOF DRAINAGE

- ALL ROOF DRAINAGE IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND COUNCIL'S SPECIFICATIONS.
- DOWNPIPES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR FINAL LOCATIONS. ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE. UNLESS APPROVED OTHERWISE BY THE PROJECT ARCHITECT.
- 4. ALL DOWNPIPES TO HAVE LEAF GUARDS. ALL EAVES GUTTERS ARE TO BE DESIGNED TO THE 5% AEP (20YR) STORM
- EVENTS UNC 6. ALL EAVES GUTTER OVERFLOWS ARE TO BE IN ACCORDANCE WITH AS3500.3
- ALL BOX GUTTERS ARE TO BE DESIGNED TO CATER TO THE 1% AEP (100YR) STORM EVENTS UNO 8. IN ACCORDANCE WITH AS3500.3 CLAUSE 3.7.6.G, BOX GUTTERS SHALL
- a. BE STRAIGHT (WITHOUT CHANGE IN DIRECTION) b. HAVE A HORIZONTAL CONSTANT WIDTH BASE (SOLE) WITH VERTICAL SIDES IN A CROSS-SECTION. HAVE A CONSTANT LONGITUDINAL SLOPE BETWEEN 1:200 AND 1:40.
- d. DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE OF DIRECTION (I.E. NOT TO THE SIDE); AND e. BE SEALED TO THE RAINHEADS AND SUMPS
- 9. GREENVIEW RECOMMENDS THAT THE BUILDER VERIFIES THAT ANY AND ALL BOX GUTTERS HAVE BEEN DESIGNED BY A QUALIFIED CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF WORKS 10. GREENVIEW RECOMMENDS A SPECIFIC INSPECTION AND CERTIFICATION BY A
- QUALIFIED CIVIL ENGINEER OF ANY AND ALL BOX GUTTERS INSTALLED ON THE PROJECT PRIOR TO OCCUPATION CERTIFICATE 11 ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER OR STORMWATER LINE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS

PROPOSED DEVELOPMENT

25-29 Prospero Street, Maryland, NSW

3 24.04.2023 JPS PRELIMINARY ISSUE 2 13.04.2023 JPS PRELIMINARY ISSUE 1 20.03.2023 JPS PRELIMINARY ISSUE DESCRIPTION

OTHERWISE

Land & Housing Corporation

STORMWATER DRAINAGE NOTES

1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS INCLUDING AS3500.3 . NCC AND COUNCIL'S SPECIFICATION.

7.5.2.1 WHICH PROVIDES GUIDANCE ACCORDING TO PIT DEPTH U.N.O. TABLE 7.5.2.1

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

Depth to invert	Minimum internal dimensions mm				
of outlet	Recta	Circular			
	Width	Length	Diameter		
≤450	350	350	—		
≤600	450	450	600		
>600 ≤900	600	600	900		
>900 ≤1200	600	900	1000		
>1200	900	900	1000		

- PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2
- RUBBER RING JOINTED UNO 5. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE CLASS 3 U.N.O. BY COUNCILS SPECIFICATION. 6. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE
- DRAWINGS
- 7. MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO. 8 ALL PIPES LOCATED IN LANDSCAPE AREAS TO HAVE 300mm COVER. WHERE NOT POSSIBLE AND COVER IS BETWEEN 150mm AND 300mm USE SEWER
- GRADE PIPE. 9. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O.
- 11. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY.
- 12. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS 13. THE MINIMUM SIZES OF THE STORMWATER DRAINAGE PIPES SHALL NOT BE
- LESS THAN 90mm DIA FOR CLASS 1 BUILDINGS AND 100mm DIA FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY 14. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO
- PITS TO MATCH PIT INVERTS 15. ALL LANDSCAPED PITS TO BE MIN 450 SQUARE U.N.O OR LARGER AS
- REQUIRED BY AS3500 3 TABLE 7 5 2 1 16 GREENVIEW RECOMMENDS ALL COURTYARDS TO HAVE 450 SQUARE PLASTIC PIT INSTALLED WITH A 150mm DIA. CONNECTION TO FORMAL DRAINAGE
- SYSTEM 17. ALL DRIVEWAY PITS TO BE MIN 600 SQUARE U.N.O OR LARGER AS REQUIRED
- BY AS3500.3 TABLE 7.5.2.1 18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER DRAINAGE LINE.

GRATE.

OVERFLOW

GALVANISED)

COVER TABLE

ANDSCAPE (SINGLE DWELLING)

UNDER TRAFFICABLE AREA

LOCATION

ANDSCAPE

CONCRETE

ROADS

CHILDPROOF LOCKS

PRIOR TO BACKFILLING.

LANDSCAPE CONSULTANT

- 19. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND DUG
- 20. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION WHERE APPLICABLE. 21. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF THE OUTLET PIPE AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO

CIVIL DESIGN FOR PROPOSED DEVELOPMENT AT 25-29 Prospero Street, Maryland, NSW

MINIMUM PIT DIMENSIONS ARE TO BE IN ACCORDANCE WITH AS3500.3 TABLE

- 10. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O
- 22. ANY VARIATION TO THAT WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY THE ENGINEER PRIOR TO THE COMMENCEMENT. 23 ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS
- 24. GREENVIEW RECOMMENDS ALL ACCESSIBLE GRATES TO BE FITTED WITH 25. ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL
- 26. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL. 27. WATER PROOF ALL CONCRETE BALCONIES & ROOFS TO ARCHITECTS DETAILS 28. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY
- 29. ALL SUBSOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE
- 30. SUBSOIL DRAINAGE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE
- FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS. 31. ALL GRATES IN AREAS OF FREQUENT PEDESTRIAN TRAFFIC (IE FOOTPATHS, WALKWAYS, ETC.) TO BE HEELPROOF GRATE. 32. REFER ARCHITECTS DETAIL FOR GRATE FINISH (IE STAINLESS STEEL OR

7.10.3)

33. GRATES TO BE IN ACCORDANCE WITH TABLE BELOW:

PIT GRATE INLINE TYPE						
GRATE TYPE	TRAFFIC CONDITIONS					
A - EXTRA LIGHT DUTY	FOOTWAYS AND AREAS ACCESSIBLE ONLY TO PEDESTRIANS AND PEDAL CYCLISTS.					
B - LIGHT DUTY	FOOTWAYS THAT CAN BE MOUNTED BY VEHICLES.					
C - MEDIUM DUTY	MALLS AND PEDESTRIAN AREAS OPEN TO SLOW MOVING COMMERCIAL VEHICLES.					
D - HEAVY DUTY	CARRIGEWAYS OF ROADS AND AREAS OPEN TO COMMERCIAL VEHICHLES.					
TABLE AS PER AS3996 - 2006. ENGINEER TO BE NOTIFIED IF LOAD CONDITIONS LISTED ABOVE ARE EXCEEDED.						

32. COVER TO PIPE TO BE AS PER TABLE BELOW:

-		
	PIPE TYPE	COVER
	PVC	300
)	PVC	100
	PVC	100 BELOW UNDERSIDE OF PAVEMENT
	STEEL	NIL BELOW UNDERSIDE OF PAVEMENT
	RCP	500 BELOW UNDERSIDE OF PAVEMENT

STORMWATER DRAINAGE NOTES CONTINUED

- 33. GREENVIEW'S STORMWATER SYSTEM HAS BEEN DESIGNED TO CAPTURE SURFACE RUNOFF FROM THE SITE ITSELF BUT DOES NOT INCORPORATE SPECIFIC GROUNDWATER CAPTURE MECHANISMS. IN SOME CASES. GROUNDWATER INUNDATION MAY BE A SIGNIFICANT SOURCE OF WATER DURING A STORM EVENT. GREENVIEW RECOMMENDS THAT ALL RETAINING WALLS CLOSE TO HABITABLE AREAS BE FITTED WITH AN IMPERMEABLE MEMBRANE AND SUBSOIL DRAINAGE TO PREVENT GROUNDWATER
- INGRESS 34. GREENVIEW RECOMMENDS ALL IN-GROUND STORMWATER PIPE RUNS ARE SET OUT BY THE BUILDER PRIOR TO COMMENCEMENT OF WORKS. WHERE 300MM COVER IS NOT ACHIEVED. NOTIFY ENGINEER. 35. WHERE STORMWATER DRAINAGE WORKS ARE TO BE UNDERTAKEN PRIOR
- TO THE CONSTRUCTION OF THE BUILDING, THE BUILDER IS TO SET OUT THE FLOOR LEVELS AND ENSURE PROPOSED STORMWATER DRAINAGE LEVELS AND BUILDING LEVELS ARE COMPATIBLE. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

ON-SITE DETENTION

- 1. ON-SITE DETENTION (OSD) TANKS ARE TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS
- INCLUDING AS3500.3, NCC AND COUNCILS' SPECIFICATIONS. 2. IT IS CRITICAL THAT THE MINIMUM OSD VOLUME AS CALCULATED BY THE DESIGN AND NOTED ON THESE PLANS IS ACHIEVED ON SITE. VOLUMES TO BE VERIFIED BE REGISTERED SURVEYOR AND NOTED IN THE WAE SURVEY
- PRIOR TO CERTIFICATION. OSD VOLUME MAY BE ACHIEVED IN BELOW GROUND TANK, OR ABOVE GROUND PONDING, OR RAINWATER TANK OFFSET, OR INFILTRATION/ABSORPTION SYSTEM. EACH COUNCIL HAS SPECIFIC
- GUIDELINES FOR HOW STORMWATER FLOWS ARE TO BE CONTROLLED AND DISCHARGED PONDING AND OVERELOW LEVELS FROM THE OSD SHALL BE NOT LESS THAN 300mm BELOW ADJACENT HABITABLE FLOOR LEVELS OF BUILDINGS AND NOT LESS THAN 150mm BELOW NON-HABITABLE FLOOR LEVELS (AS3500.1 CLAUSE

7.10.1) **BELOW GROUND OSD TANKS**

- THE HYDRAULIC CONTROL FOR THE STORAGE (USUALLY ORIFICE PLATE) SHALL BE FIRMLY FIXED IN PLACE TO PREVENT REMOVAL OR TAMPERING. A PLATE OF 3mm TO 5mm THICK STAINLESS STEEL WITH A CIRCULAR HOLE SHALL BE USED, PROVIDED: a. IT IS MACHINED TO 0.5mm ACCURACY
- b. IT RETAINS A SHARP EDGE; AND c. THE ORIFICE DIAMETER IS NOT LESS THAN 25mm (AS 3500.3 CLAUSE 7.10.2 INSPECTION / ACCESS OPENINGS SHALL BE PROVIDED ABOVE THE LOCATION OF THE OUTLET WITH DIMENSIONS AT LEAST 600mm x 600mm OR 600mm DIAMETER FOR STORAGES UP TO 800mm DEEP AND 600mm x 900mm FOR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OF DEBRIS THROUGH THIS OPENING. INSPECTION SHALL BE POSSIBLE WITHOUT
- RESIDENTS OR OWNERS HAVING TO REMOVE HEAVY ACCESS COVERS (AS3500.3 CLAUSE 7.10.2.b.ii) WHERE STORAGES ARE NOT DEEP ENOUGH TO WORK IN (<1.5m DEEP) ACCESS SHALL BE PROVIDED AT INTERVALS OF APPROXIMATELY 10m TO ALLOW THE SYSTEM TO BE FLUSHED TO THE STORAGE OUTLET> ACCESS SHALL BE PROVIDED AT THE OUTLET (AS3500.3 CLAUSE 7.10.2.b.iii) A SUMP SHALL BE PROVIDED AT THE OUTLET POINT, SET BELOW THE LEVEL OF THE MAIN STORAGE TO COLLECT DEBRIS. WHERE A DISCHARGE CONTROL PIT IS INCLUDED IN THE STORAGE< THIS SHALL CONTAIN A SUMP SET A MINIMUM OF 1.5 TIMES THE DIAMETER OF THE ORIFICE OF THE OUTLET BELOW THE CENTRE OF THE ORIFICE. SUMPS SHALL BE PROVIDED WITH
- WEEP HOLES TO DRAIN OUT TO THE SURROUNDING SOIL, AND SHALL BE FOUNDED ON A COMPACTED GRANULAR BASE. WHERE THE DEPTH OF THE TANK EXCEEDS 1.2m, A LADDER IN ACCORDANCE WITH AS3500.3 CLAUSE 7.5.5.4 SHALL BE INSTALLED. BELOW GROUND OSD SYSTEMS SHALL CONFORM WITH AS2865.
- IN ACCORDANCE WITH AS3500.3 CLAUSE 7.10.2.D SCREENS (TRASH RACKS) WITH THE FOLLOWING CHARACTERISTICS SHOULD BE PROVIDED TO COVER EACH ORIFICE OUTLET: a. FOR ORIFICES UP TO 150mm DIA., A FINE APERTURE-EXPANDED METAL MESH SCREEN WITH A MINIMUM AREA OF 50 TIMES THE AREA OF THE ORIFICE. FOR LARGER DIA. ORIFICES, A COARSER GRID MESH WITH A
- MINIMUM AREA OF 20 TIMES THE ORIFICE AREA MAY BE USED AS AN ALTERNATIVE b. STEEL SCREENS SHOULD BE STAINLESS STEEL OR HOT-DIP GALVANIZED WHERE APERTURE-EXPANDED MESH SCREENS ARE EMPLOYED. THEY SHOULD BE POSITIONED SO THAT THE OVAL-SHAPED HOLES ARE HORIZONTAL, WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING
- DOWNSTREAM, A HANDLE MAY BE FITTED TO ENSURE CORRECT ORIENTATION AND EASY REMOVAL FOR MAINTENANCE. SCREENS SHOULD BE PLACED NO FLATTER THAN 45 DEGREES TO THE HORIZONTAL IN SHALLOW STORAGES UP TO 600mm DEEP. IN DEEPER OR MORE REMOTE LOCATIONS, THE MINIMUM ANGLE SHOULD BE 60 DEGREES
- TO THE HORIZONTAL IF THE BELOW GROUND OSD STORAGE IS SEALED, A VENT SHOULD BE PROVIDED TO EXPEL ANY NOXIOUS GASES (AS3500.3 CLAUSE 7.10.2.D.B). THE STORAGE SHOULD BE DESIGNED TO FILL WITHOUT CAUSING OVERFLOWS IN UPSTREAM CONDUITS DUE TO BACKWATER EFFECTS
- (AS3500.3 CLAUSE 7.10.2.D.C). 10. BELOW GROUND STORAGES SHALL BE CONSTRUCTED OF CONCRETE. MASONRY, ALUMINIUM/ZINC AND ALUMINIUM/ZINC/MAGNESIUM ALLOY-COATED

STEEL, ZINC-COATED STEEL, GALVANISED IRON OR PLASTICS (AS3500.3

MAINTENANCE SCHEDULE: ON SITE DETENTION (OSD)

ALL OSD MAINTENANCE TASKS SHOULD BE UNDERTAKEN AFTER A SIGNIFICANT STORM EVENT

6 MONTHLY

ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	INSPECT FOR BLOCKAGE	CHECK PLATE FOR BLOCKAGE AND CLEAN
TRASH SCREEN	CHECK / CLEAN	CHECK AND CLEAN TRASH SCREEN
PIT SUMP	CHECK FOR SEDIMENT	CHECK FOR SEDIMENT / LITTER / SLUDGE AND CLEAN-OUT
GRATED LIDS	CHECK FOR DAMAGE	CHECK FOR CORROSION OR OTHER DAMAGE AND REPAIR / REPLACE AS NEEDED
	CLEAR BLOCKAGES	CHECK AND CLEAR BLOCKAGES
STORAGE LIDS	CHECK	REMOVE DEBRIS / MULCH / LITTER / SEDIMENT
OUTLET PIPES	CHECK FOR BLOCKAGES	CHECK / CLEAN / FLUSH OUTLET PIPES, REMOVE ANY BLOCKAGES
STEP IRONS	CHECK FIXING	ENSURE STEP-IRON FIXINGS ARE SECURE AND REPAIR AS NEEDED

ANNUALLY

ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ATTACHMENT	ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED
TRASH SCREEN	CHECK ATTACHMENT	ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED
	CHECK CORROSION	CHECK TRASH SCREEN FOR CORROSION, ESPECIALLY AT CORNERS NEAR WELDS AND REPAIR / REPLACE AS NEEDED
STEP IRONS	CHECK FOR CORROSION	EXAMINE STEP IRONS AND REPAIR ANY DAMAGE
INTERNAL WALLS	CHECK	CHECK FOR CRACKS / SPALLING AND REPAIR AS NEEDED
OSD SURROUNDS	CHECK FOR SUBSIDENCE	CHECK FOR SUBSIDENCE (WHICH MAY INDICATE LEAKS) AND REPAIR AS NEEDED

5-TEARLT		
ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ORIFICE PLATE	CHECK ORIFICE SIZE AGAINST WAE AND CHECK FOR PITTING / SCARRING, REPLACE IF NECESSARY

COLOUR LEGEND

NEW (REFER TO SCHEDULES FOR COLOUR DEFINITION)

EXISTING

REMOVED OR RELOCATED

GREENVIEW CIVIL SHEET LIST					
No.	SHEET NAME	REV.			
C01	NOTES & LEGENDS	5			
C02	GROUND FLOOR DRAINAGE PLAN	5			
C03	FIRST FLOOR DRAINAGE PLAN	1			
C04	ROOF DRAINAGE PLAN	1			
C05	SITE STORMWATER DETAILS SHEET 1	5			

C	Greer CONS (02) 8544 1683 ww	SULTING W.greenview.net.au			CIVIL DESIGN
DESIGN: KP	DRAWN: JPS	CHECKED: AMcK	SIZE: A1	SCALE: 1:100	NOTES & LEGENDS

FFI K&G RCP RKG RWO RW1 TOW TWL uPVC

RECOMMENDED SAFETY SIGNS

CONFINED SPACE NO ENTRY WITHOUT ONFINED SPACE TRAININ

CONFINED SPACE DANGER SIGN

1. A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE.

- MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS)

- 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED

ALUMINUM OR POLYPROPYLENE 3. SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE

EXISTING SERVICES

WHEN EXCAVATING WITHIN ANY SITE OTPATH AND ROADWAY, ALL SERVICE SHALL BE LOCATED PRIOR TO COMMENCEMENT OF THE EXCAVATION ORKS. CONTACT "DIAL BEFORE YOU I 00 OR GOT THE WEB SITE "www.1100.

ABBREVIATIONS

DOWN PIPE PROPOSED FINISHED FLOOR LEVEL PROPOSED PIT SURFACE LEVEL PROPOSED PIT INVERT LEVEL

INSPECTION OPENING KERB & GUTTER

FINISHED PAVEMENT LEVE

REINFORCED CONCRETE PIPE ROLL KERB & GUTTER

FINISHED SURFACE LEVEL RAINWATER DRAINAGE OUTLET

PROPOSED RAINWATER TANK TOP OF NEW KERB LEVEL

TOP OF NEW RETAINING WALL LEVEL TOP OF WATER LEVEL

RIGID PVC PIPE VERTICAL DROPPER

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The with	REV.	DATE	BY	DESCRIPTION	

GREENVIEW RECOMMENDS A FULL SERVICE LOCATOR SEARCH AND ROAD FRONTAGE PLAN

THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS.

PROPOSED TREES

EXISTING TREES

CIV - FIXTURES SCHEDULE TYPE DESCRIPTION GRATED STORMWATER PIT PERIMETER STRIP DRAIN SEALED STORMWATER PIT \ge GRATED STRIP DRAIN 300W DP SPREADER DP SPREADER

CIV - STANDARD SYMBOLS

CIV - STORMWATER SERVICES

RAIN WATER

STORMWATER

DESCRIPTION

230135

PRELIMINARY

5

FALL ARROW

ROOF FALL ARROW

TYPE

RW

STW

-

FALL

00000

DESCRIPTION

RWT/FILTER CHAMBER/ STORAGE CHAMBERDETAILS TO BE CONFIRMED WITH COUNCIL ENGINEER DUE TO SITE BEING IN COASTAL WETLAND CATCHMENT

12kL OF RWT WATER TO BE RETICULATED INTO TOILETS AND COLD WATER WASHING MACHINE

GROUND FLOOR DRAINAGE PLAN

1. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING. 2. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES. 3. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY 4. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT POSSIBLE, ALL EXCAVATIONS IN

5. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF THE OUTLET PIPE WITH ALL PIPES CUT FLUSH WITH SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER.

6. PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATE WHERE IN TRAFFICABLE AREAS. 7. PROVIDE 100mm GAP IN BASE OF FENCE FOR EMERGENCY OVERFLOWS.

8. PROVIDE SUBSOIL DRAINAGE AND OUTLETS TO ALL ON PODIUM PLANTER BOXES. OUTLET PIPES NOT SHOWN

9. ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER OR STORMWATER LINE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OTHERWISE.

10. ALL PIPES TO BE 100mmØ @ 1% MINIMUM UNLESS NOTED OTHERWISE. 11. ALL BASES OF PITS TO BE BENCHED TO THE INVERT OF THE OUTLET PIPE WITH ALL PIPES CUT FLUSH WITH SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER.

12. PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATES IN TRAFFICABLE AREAS.

DESIGN CRITEIRA: ACHIEVE STORMWATER OBJECTIVES AS PER THE "STORMWATER AND WATER EFFICIENCY FOR DEVELOPMENT [APRIL 2019]"

SITE IS < 5000sqm THEREFORE SMALL-SCALE DEVELOPMENT

TOTAL PROPOSED IMPERVIOUS AREA [EXC. PERMEABLE PAVING] = 870m², ADOPT 900m² TOTAL PROPOSED ROOF AREA = 530m² TOTAL PROPOSED IMPERVIOUS% = 900/1765 = 51%

TOTAL STORAGE REQUIRED IN RWT = 0.01226*530 = 6.5m³ (COLLECTS ROOF ONLY)

REMAINING STORAGE REQUIRED = 0.01226*370 = 4.5m³ (CAN COLLECT DRIVEWAYS ETC) PROVIDE SANDFILTER, MIN SIZE = 0.8*9 = 7.2m² IN PLAN AREA

WSUD: RAINWATER TANK AND SAND FILTER THEREFORE DEEMED TO COMPLY AND NO

ADDITIONAL WSUD ARRANGEMENTS REQUIRED

1:100

PROVIDE PRE-MADE TRASH SCREEN AS PER MASCOT ENGINEERING "MULTI-PURPOSE TRASH SCREENS" OR APPROVED EQUIVALENT

TYPICAL TRASH SCREEN DETAIL Scale: 1:10

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GALVANIZED BEARING ANGLE —

OR SIMILAR SURROUNDS

Sleh

16 November 2023

- Ø90mm OUTLET PIPE TO EXTEND 3m PAST END OF FILTER CHAMBER TO ALLOW WATER TO INFILTRATE AWAY FROM STRUCTURE

230135 PRELIMINARY 5 C05

GENERAL INSTRUCTIONS

- 1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT. 2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER
- MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" DEPT OF HOUSING, 1998 (BLUE BOOK). 3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR
- RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS. 4. THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER
- RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS. WHERE DISCREPANCIES ARE FOUND NOTIFY ENGINEER IMMEDIATELY FOR VERIFICATION. 5. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT
- APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES.

LAND DISTURBANCE INSTRUCTIONS

- 1. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR
- MATERIALS 2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS
- 3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH
- 4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE. A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN B. CONSTRUCT THE STABILISED SITE ACCESS.
- . CONSTRUCT DIVERSION DRAINS AS REQUIRED. D. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB
- INLETS. E. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE
- DROP INLET PITS F. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS
- SHOWN ON THE PLAN G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS
- SOON AS PRACTICABLE H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT
- STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER
- THE PERMANENT LANDSCAPING HAS BEEN COMPLETED. 5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY
- SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER

SITE MAINTENANCE INSTRUCTIONS

- 1. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO: A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS
- B. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS
- C. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
- D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND NOT TO INITIATE UPGRADING OR
- **REPAIR AS NECESSARY** E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
- F. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.

THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER

- RAINFALL. ENTRIES WILL INCLUDE: A. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
- THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
- D. THE NEED FOR DUST PREVENTION STRATEGIES. E. ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SAFETY IN DESIGN NOTES

1. THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING. WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS, GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

SEDIMENT CONTROL INSTRUCTIONS

- 1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE
- SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS
- AND WATERWAYS CANNOT OCCUR 4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS
- SUCH AS WATERWAYS PAVED AREAS AND DRIVEWAYS WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA
- HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
- . TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- 7. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

SOIL EROSION CONTROL INSTRUCTIONS

- 1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS
- OTHERWISE NOTED, THAN: 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES.
- 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
- 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 20 METRES. 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES. 2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI.
- TIME OF CONCENTRATION STORM EVENT. 3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION, FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER-SOILS AND CONSTRUCTION", DEPT OF HOUSING 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- 4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. 5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING
- CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE
- MILLET 20 KG/HA AND OATS 20 KG/HA PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY, FOLLOW UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
- REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.
- WASTE CONTROL INSTRUCTIONS 1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE
- MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS. FLOOD PHONE AREAS.
- STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS. . ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF
- THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED . ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED
- TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

PROCEDURE FOR DE-WATERING

- ENSURE PERMISSION FOR DE-WATERING IS RECEIVED FROM AUTHORITIES BEFORE PUMPING OUT. AN ON-SITE TREATMENT PROCESS DISCHARGING TO THE STORMWATER SYSTEM WILL BE IMPLEMENTED. ALL SITE WATERS DURING CONSTRUCTION WILL BE CONTAINED ON SITE AND RELEASED ONLY WHEN pH IS BETWEEN 8.5 & 6.5, SUSPENDED SOLIDS ARE LESS THAN 50mg/L, TURBIDITY LESS THAN 100 NTU'S OIL AND GREASE LESS THAN 10mg/L AND BIOCHEMICAL OXYGEN DEMAND (BOD5) LESS THAN 30mg/L (FOR STORMS LESS THAN 1 IN 5 YEAR EVENTS).
- METHODS OF SAMPLING AND ANALYSIS OF WATER QUALITY WILL BE IN ACCORDANCE WITH THE APPLICABLE METHOD LISTED IN THE EPA PUBLISHED APPROVED METHODS FOR THE SAMPLING ANALYSIS OF WATER POLLUTANTS IN NEW SOUTH WALES. 4. WHERE LABORATORY ANALYSIS IS REQUIRED AS INDICATED BY IN-
- SITU TESTING, APPROPRIATE SAMPLE BOTTLES AND PRESERVATIVES WILL BE USED AND GUIDANCE FOR THE SAMPLING METHOD OBTAINED FROM APPLICABLE PARTS OF AS5667.1 AND AS5667.6. ANALYSIS WILL BE UNDERTAKEN WHERE
- PRACTICAL BY A NATA REGISTERED LABORATORY CERTIFIED TO PERFORM THE APPLICABLE ANALYSIS. AS EXCAVATION TO TOP SOIL PROGRESSES, ANY WATER COLLECTED AT THE BOTTOM OF EXCAVATIONS WILL BE DIVERTED TO A TEMPORARY SEDIMENTATION BASIN OR SETTLEMENT TANK. IF THE WATER CONTAINS ONLY SEDIMENTS, IT WILL BE FILTERED
- AND PUMPED TO STORMWATER. BEFORE THIS CAN HAPPEN IT MUST CONTAIN LESS THAN 50mg/L TOTAL SUSPENDED SOLIDS. POLLUTED WATER MUST NOT ENTER THE STORMWATER SYSTEM IN SOME CIRCUMSTANCES, A LIQUID WASTE COMPANY MAY BE
- REQUIRED TO COLLECT CONTAMINATED WATER FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.

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1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE. 2. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER. 3. JOIN SECTIONS OF FABRIC AT A SUPPORT WITH A 150mm OVERLAP. 4. REFER TO DETAIL SD 6-9 "BLUE BOOK"

SILT FENCE BARRIER DETAIL Scale: 1:20

	Greer (02) 8544 1683 ww	NVIEW SULTING ww.greenview.net.au			CIVIL DESIGN
DESIGN: KP	DRAWN: JPS	CHECKED: AMcK	SIZE: A1	SCALE: As indicated	NOTES & LEGENDS

16 November 2023

- BED 75mm AGGREGATE MINIMUM 200mm THICK

Scale: 1:100

FOR NOISE CONTROL, VIBRATION MANAGEMENT, DUST CONTROL, ODOUR CONTROL REFER TO NOTES ON THIS DRAWING, FOR OTHER NOTES (LITTER/WASTE, STORMWATER) REFER ESM1

WHERE WORK INVOLVES EXCAVATION OR STOCKPILING OF RAW OR LOOSE MATERIALS, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROVIDE WHOLLY WITHIN THE SITE WHILST WORK IS BEING CARIED OUT IN ORDER TO PREVENT SEDIMENT AND SILT FROM SITE WORKS BEING CONVEYED BY STORMWATER INTO COUNCIL'S STORMWATER SYSTEM, NATURAL WATER COURSES, BUSHLANDS, AND NEIGHBORING PROPERTIES. IN THIS REGARD, ALL STORMWATER DISCHARGE FROM THE SITE SHALL MEET THE REQUIREMENTS OF THE PROTECT OF ENVIRONMENT OPERATIONS ACT 1997 AND THE DEPARTMENT OF ENVIRONMENT, CLIMATE CHANGE AND WATER GUIDELINES. THE CONTROL DEVICES ARE TO BE MAINTAINED IN A SERVICEABLE CONDITION AT ALL TIMES.

THE BUILDER AND EXCAVATION CONTRACTOR ARE TO ENSURE ANY WATER DISCHARGED INTO COUNCIL STORMWATER SYSTEM FROM THE EXCAVATED PORTIONS OF THE SITE COMPLY WITH THE RELEVANT ENVIRONMENTAL CRITERIA AND APPROPRIATE CONTROL METHODS SHALL BE ADOPTED. THE PROPOSED CONTROL METHODS ARE STRICTLY TO COMPLY WITH THE ANZECC 2000 GUIDELINES.

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- NOISE CONTROL NATURAL SCREENING (E.G. BUILDINGS)
- SIMULTANEOUSLY
- EMISSIONS
- (CTMP) IDLING)
- VIBRATION MANAGEMENT
- DUST CONTROL
- GENERATION IS A POSSIBILITY
- ODOUR CONTROL NO BURNING-OFF OF WASTE AT ANY TIME

DETERMINED by the NSW Land and Housing Corporation on:

SITE MANAGEMENT LEGEND

••••• • CHAIN WIRE FENCE • SILT FENCE

16 November 2023

ESM - SITE MANAGEMENT SCHEDULE				
TYPE	DESCRIPTION			
1	SKIP BIN (PROVIDE COVER)			
2	SITE ACCESS GRATE			
3	MATERIALS STOCKPILE (RELOCATE AS NECESSARY)			
4	TOILET FACILITY			
5	SITE SHED			

• WHERE POSSIBLE, STRATEGICALLY PLACE NOISE-GENERATING PLANT / EQUIPMENT TO TAKE ADVANTAGE OF AVOID PLACING NOISE-GENERATING PLANT / EQUIPMENT CLOSE TOGETHER AND/OR OPERATE

MAINTAIN ALL PLANT & EQUIPMENT TO MINIMISE NOISE EMISSIONS (E.G. REPAIR BROKEN SILENCING EQUIPMENT, TIGHTEN RATTLING COMPONENTS ETC) ALL PLANT & EQUIPMENT TO BE OPERATED IN THE CORRECT MANNER TO AVOID UNNECESSARY NOISE

ALL DELIVERIES TO SITE TO BE IN ACCORD WITH THE RELEVANT CONSTRUCTION TRAFFIC MANAGEMENT PLAN

• NO PUBLIC ADDRESS SYSTEMS TO BE USED EXCEPT IN THE CASE OF EMERGENCIES • WHERE NECESSARY, FIT PLANT WITH SILENCERS AND/OR OTHER NOISE ATTENUATION MEASURES • ENSURE CONSTRUCTION VEHICLES AND PLANT/EQUIPMENT ARE TURNED OFF WHEN NOT IN USE (I.E. AVOID

 USE LOW-VIBRATION EMITTING PLANT & EQUIPMENT WHERE POSSIBLE • WHERE PRACTICAL, USE NON-PERCUSSIVE PILING TECHNIQUES OR PROVIDE ACCOUSTIC SHIELDING

 WHERE POSSIBLE, STAGE ANY VEGETATION REMOVAL TO MINIMISE EXPOSED AREAS • AREAS EXPOSED (IN THE SHORT TERM) TO BE STABILISED USING WATERING AND/OR GEO-FABRICS AS APPROPRIATE TO MINIMISE DUST GENERATION • MODIFY / REDUCE CONSTRUCTION ACTIVITIES DURING HIGH WIND CONDITIONS IF INCREASED DUST • DUST CONTROL MEASURES TO BE IMPLEMENTED AS THE SITE SUPERVISOR DEEMS APPROPRIATE, INCLUDING WATER CARTS, SPRINKLERS, SPRAYS, DUST SCREENS, ETC CHECK EROSION CONTROL MEASURE REGULARLY TO ENSURE CAPTURED SILT DOES NOT BECOME AIRBORNE

• SEGRATE AND COLLECT WASTE REGULARLY TO ENSURE ODOURS ARE MINIMISED REMOVE WASTE BINS FROM SITE REGULARLY

> 1:100 230135 **TENDER**