

ACTIVITY DETERMINATION

Project No. BGWY7

Conflict of Interest ¹	
In this matter:	
 I have declared any possible conflict of interests (real, potential or per Executive, NSW Land & Housing Corporation. I do not consider I have any personal interests that would affect my pr I will inform the Chief Executive, NSW Land & Housing Corporation as aware of a possible conflict of interest. 	ofessional judgement.
Signed	
NameRobert Stark	Dated18 June 2023

Having regard to the Determination Recommendation Report, the Decision Statement 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			
38-40 & 31-33	John T Bell Drive & Matfen Close			
Suburb, town or locality Postcode				
Maryland, NSW		2287		
Local Government Area(s)	Real property description (Lo	ot and DP)		
City of Newcastle	Lots 111, 112, 116, 117 in DP253	3956		
ACTIVITY DESCRIPTION				

Provide a description of the activity

Demolition of 4 dwellings and construction of 2 residential flat buildings containing 16 dwellings, comprising 6 x 1-bedroom and 10 x 2-bedroom units, parking for 8 vehicles, associated site works and landscaping, and consolidation of 4 lots 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.

Signed.....

Dated...18 June 2023.....

Robert Stark A/ Head of Policy and Innovation NSW Land and Housing Corporation

Schedule 1

PART A - Standard identified requirements

THE DEVELOPMENT

The following identified requirements have been imposed to ensure that the development 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 and as modified below by any of the undermentioned identified requirements:

Title / Name:	Drawing No. /	Revision /	Date	Prepared by:
	Document Ref	Issue:	[dd.mm.yyyy]:	
Architectural Plans				
Coversheet	A-0001	В	26.08.2022	CKDS Architecture
Planning Controls	A-0002	В	26.08.2022	CKDS Architecture
Block Analysis	A-0003	С	10.03.2023	CKDS Architecture
Site Analysis	A-004	С	10.03.2023	CKDS Architecture
Demolition Plan	A-0101	В	26.08022	CKDS Architecture
Site Plan - Ground	A-1001	С	10.03.2023	CKDS Architecture
Site Plan – First Floor	A-1002	С	10.03.2023	CKDS Architecture
Site Plan - Roof	A-1003	С	10.03.2023	CKDS Architecture
Ground Floor Plan - South	A-1101	С	10.03.2023	CKDS Architecture
Ground Floor Plan - North	A-1102	С	10.03.2023	CKDS Architecture
First Floor Plan - South	A-1103	С	10.03.2023	CKDS Architecture
First Floor Plan - North	A-1104	С	10.03.2023	CKDS Architecture
Roof Plan - South	A-1105	С	10.03.2023	CKDS Architecture
Roof Plan - North	A-1106	С	10.03.2023	CKDS Architecture
Street Elevations	A-2001	С	10.03.2023	CKDS Architecture
East / West Elevation	A-2002	С	10.03.2023	CKDS Architecture
North / South Elevation	A-2003	С	10.03.2023	CKDS Architecture
Sections A	A-3001	С	10.03.2023	CKDS Architecture
Section B & C	A-3002	С	10.03.2023	CKDS Architecture
Cut and Fill Diagram	A-4001	В	26.08.2022	CKDS Architecture
Waste Management Plan	A-4002	С	13.01.2023	CKDS Architecture
RFB & Landscape - Area	A-4003	В	26.08.2022	CKDS Architecture
Shadow Diagrams	A-5001	В	26.08.2022	CKDS Architecture
Solar – South	A-5002	В	26.08.2022	CKDS Architecture
Solar - North	A-5003	В	26.08.2022	CKDS Architecture

Schedule of Finishes	A-6001	В	26.08.2022	CKDS Architecture
Matfen Close	A-6001	B	26.08.2022	CKDS Architecture
Window schedule	A-7001	B	26.05.2022	CKDS Architecture
Landscape Plan	////001	D	LOUGEDEE	
Cover Sheet	DA-L000	E	03.09.2022	Xeriscapes
Landscape Plan	DA – L101	E	03.09.2022	Xeriscapes
Precedent Images	DA – L201	D	22.07.2022	Xeriscapes
Indicative Plant Schedule	DA – L301	D	22.07.2022	Xeriscapes
Civil – Appendix P				-
Cover Sheet, Locality Plan and Drawing List	DA.C01	А	19.07.2022	Northrop
Erosion and Sediment	DA.C02	A	19.07.2022	Northrop
Control Plan	DA.COZ	~	19.07.2022	Νοιτιιόρ
Erosion and Sediment	DA.C03	A	19.07.2022	Northrop
Control Details				
Civil Stormwater and Levels Plan	DA.C04	В	06.09.2022	Northrop
Civil Stormwater and	DA.C05	В	06.09.2022	Northrop
Levels Plan	27.0000	2	000002022	
Survey – Appendix O				
Site Detail Survey (2002455)	Layout 01- 08	Rev B	14.10.2020	Indiya Geospatial
BASIX / NatHERS				
BASIX Certificate	1311106M_02	-	05.09.2022	Chapman Environmental Services Pty Ltd
NatHERS Certificate	007900160	-	22.07.2022	Chapman Environmental Services Pty Ltd
Specialist Reports				
Arborist's Stage C Report	-	-	29.07.2022	Hunter Horticultural Services
BCA Compliance Assessment Report	10644.2	Revision 2	05.09.2022	AED Group
Geotechnical Investigation and Acid Sulfate Soils Assessment	20/3519	-	October 2020	STS Geotechnics Pty Ltd
Acid Sulfate Soils Management Plan	22/2797	-	August 2022	STS Geotechnics Pty Ltd
Flood Report	L.A10426.001	-	17.03.2022	BMT Commercial Australia Pty Ltd
Traffic and Parking Impact Assessment	220409.01FB	-	06.10.2022	McLaren Traffic Engineers and Road Safety Consultants
Access Report	LP_20267	Revision 4	09.10.2022	Lindsay Perry Access
Waste Management	I			
Site Waste Minimisation		-	13.01.23	CKDS Architecture – Ben
and Management Plan				Rapley

- **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 complied with.

- **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 approval must be consolidated into a single lot. The plan of consolidation must be lodged at the NSW Land Registry Services and be registered prior to occupation of the development. A copy of the registered plan is to be provided to the Land & Housing Corporation.

OPERATIONAL MATTERS

These identified requirements pertain to the use of the site and have been imposed to ensure that the development and its operation do not interfere with the amenity of the surrounding area.

Stormwater Run-off

- 6. Stormwater is to be collected within the site, and conveyed in a pipeline to the appropriate gutter or drain under the control of the council for the area substantially in accordance with the approved concept stormwater drainage plans.
- 7. Alterations to the natural surface contours or surface absorption characteristics must not impede, increase or divert natural surface water runoff, so as to cause a nuisance to adjoining property owners.
- **8.** All driveways are to be graded in such a manner as to provide continuous surface drainage flow paths to 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 & Parking

- **10.** A concrete vehicular crossing and layback must be provided at the entrance / exit to the property. The crossing and layback must be constructed in accordance with the City of Newcastle Council's standard requirements for residential crossings. Council shall be provided with plans for the crossing and layback together with the payment of any council inspection fees.
- 11. Particular care should 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 / driveway is to be borne by the Land & Housing Corporation. Obsolete gutter laybacks are to be constructed as kerb in accordance with the 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 must 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 are to be maintained during the entire period of the works until 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 are to be sited well clear of any easements affecting the allotment. The builder shall ascertain if any easements do exist and if so 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 E1.7 of the Building Code of Australia. Detectors shall comply with AS 3786 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 is to be inspected by a suitably qualified person to identify any contaminated or hazardous material present. A proposal for remediation is to be prepared, which may include preparation of a Remedial Action Plan, and remediation is to be carried out in accordance with the plan. A Validation Report, prepared in accordance with Environment Protection Authority requirements, is to 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 is to be provided to the Land & Housing Corporation on completion of the remediation works.

Landscaping

- **18.** Landscaping is to be carried out substantially in accordance with the approved Landscape Plan and maintained for a period of 12 months by the building contractor. The Council for the area is to be consulted in relation to the planting of any street trees along the site frontages.
- **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 and provide a copy to the Land & Housing Corporation.

Tree Removal

20. Removal of trees is to be carried out in accordance with the trees shown for removal on the approved landscape plan and Arborist report and no other trees are to be removed without further approval. Trees identified for retention on the approved landscape plan and Arborist report are to be retained.

Tree Protection measures are to be provided in accordance with the Arborist report and Landscape & Architectural Plans. Retained trees shall be protected in accordance with AS4970 – Protection of Trees on Development Sites, before any site works commence.

Note: Any works within the Tree Protection Zones of any trees near the proposed stormwater drainage works on surrounding land are also to be protected in accordance with these requirements.

Fencing

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

Provision of Letterbox Facilities

22. Suitable letterbox facilities shall 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.

Service Authority Clearances

24. An application for a compliance certificate is to be made to the relevant water utility (e.g. the Council for the area or Hunter Water or Sydney Water) or other evidence of the utility's non-objection to the commencement of work on the basis of service availability is to be obtained prior to work commencing. 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.

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.

25. A written clearance from an electricity supply authority stating that electrical services have been made available to the development or that arrangements have been entered into for the provision of services to the development is to be obtained prior to work commencing.

- **26.** A certificate from an approved telecommunications carrier to certify that satisfactory arrangements have been made to ensure the provision of underground telephone services to the site and each dwelling in the development is to be obtained prior to work commencing.
- 27. 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 the site and each dwelling in the development is to be obtained prior to work commencing.

Utilities Service Provider Notification

28. The demolition / construction plans must be submitted to the appropriate water utility's office (e.g. Hunter Water office) to determine whether the development will affect the utility's sewer and water mains, stormwater drains and/or easements. The plans must clearly identify the existing and proposed sewer alignments, pits and/or manholes. If the development complies with water utility's requirements, the plans will be stamped indicating that no further requirements are necessary.

Disconnection of Services

- **29.** All previously connected services that are required to be disconnected are to 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.
- **30.** All existing services within the boundary to remain live must be identified, pegged and made safe.

Demolition

- **31.** The builder is to notify the occupants of premises on either side, opposite and at the rear of the development site a minimum of 2 days prior to demolition/site clearance. Such notification is to be clearly written on A4 size paper giving the date demolition/site clearance will commence and be placed in the letterbox of every premise (including every unit of a multi-unit residential building or mixed use building if applicable). The demolition/site clearance must not commence prior to the date which has been stated in the notice letter.
- **32.** Prior to the demolition/site clearance, a Work Plan shall be prepared by a competent person(s) 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/site clearance, the precautions to be employed to minimise any dust nuisance and the disposal methods for hazardous materials.
- **33.** 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.

Stormwater Disposal

- **34.** Detailed stormwater drainage plans, substantially in accordance with the approved concept stormwater drainage plans, are to be prepared and submitted to the Land & Housing Corporation. Any on-site detention system shall be designed in accordance with any catchment authority requirements and/or the council for the area's drainage code.
- **35.** Where a drainage easement is required, proof of lodgement of the plan of the drainage easement at the NSW Land Registry Services must be submitted to the Land & Housing Corporation prior to commencement of works. Registration of the plan of easement must be completed prior to occupation of the development and a copy of the registered plan is to be provided to the Land & Housing Corporation.

Council Notification

36. The City of Newcastle Council shall be advised in writing, of the date it is intended to commence work, including demolition/site clearance. A minimum period of 5 working days notification shall be given.

Landfill

- **37.** Where site filling is necessary, a minimum of 95% standard compacting must be achieved and certified by a NATA registered Soils Laboratory.
- **38.** 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.

Site Facilities

- **39.** 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 the council for the area 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 are not to be placed on any property other than that to which this approval relates to.
- **40.** Access to the site is to be provided only via an all weather driveway on the property and is not to be provided from any other site.

Site Safety

- **41.** A sign must be erected in a prominent position on the site:
 - (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 during and outside working hours, and
 - (c) stating that unauthorised entry to the work site is prohibited.

The sign is to be maintained while the work is being carried out, but must 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.

42. 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.

43. Building and demolition materials shall not be stored on the footpath or roadway.

Protection of Trees

44. Street trees and other vegetation that are to be retained 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

45. A final Waste Management Plan is to be prepared and submitted to the Land & Housing Corporation 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, including provision for adequate receptacle(s) to store all waste generated by the development, pending disposal.

DURING DEMOLITION / CONSTRUCTION

The following identified requirements are to be complied with whilst works are occurring on the site.

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 in the affected area. Subsequently where historical items or indigenous items have been uncovered, the Department of Planning and Environment must be contacted.
- **47.** All workers / contractors must be informed of their obligations under the *National Parks and Wildlife Act 1974,* namely that it is illegal to disturb, damage or destroy a relic without prior approval.

Demolition

- **48.** Any existing structures are to be demolished/removed prior to commencement of construction of the approved development.
- **49.** Demolition is to be carried out in accordance with the appropriate provisions of AS 2601.
- **50.** Where materials containing asbestos are to be removed, the removal is to be carried out by a licensed contractor(s) who has 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/site clearance process shall be removed and disposed of in accordance with the requirements of SafeWork NSW.

Following completion of demolition and prior to the commencement of works a site clearance report from a qualified Hygienist is to be obtained to confirm the site is clear of hazardous materials.

- **53.** Documentary evidence in the form of tip receipts from an approved Waste Management Facility shall be obtained by the demolition/site clearance contractor and submitted to the Land & Housing Corporation demonstrating the appropriate disposal of the asbestos waste.
- **54.** Demolition/site clearance procedures shall maximise the reuse and recycling of materials from the site in order to reduce the environmental impacts of waste disposal.
- **55.** During demolition/site clearance, the public footway and public road shall be kept clear at all times and shall not be obstructed by any demolished material or vehicles. The public road and footway shall be swept (not hosed) clean of any material, including clay, soil and sand.

- **56.** All vehicles leaving the site with demolition/site clearance materials shall have their loads covered and vehicles shall not track soil and other material onto the public roads and footways and the footway shall be suitably protected against damage when plant and vehicles access the site. All loading of vehicles with demolished materials shall occur on site.
- **57.** Care shall be taken during demolition/site clearance to ensure that existing services on the site (i.e. sewer, electricity, gas, and telecommunications) are not damaged.

Survey Reports

58. Survey reports are to be submitted 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 boundary allotments in accordance with this determination.

Hours of Demolition / Construction / Civil Work

59. Demolition / site clearance / construction / civil work is only permitted 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

60. All excavations and backfilling associated with site clearance and the undertaking of the activity must be executed safely and in accordance with appropriate professional standards. All such work is to be guarded and protected to prevent it from being dangerous to life or property.

Pollution Control

- **61.** Any noise generated during the carrying out of the activity shall not exceed the limits specified in the July 2009 Interim Construction Noise Guidelines, published by the Department of Environment and Climate Change.
- 62. No fires are to be lit or waste materials burnt on the site.
- **63.** No washing of concrete forms or trucks is to occur on the site.
- **64.** Any contamination / spills on the site during construction works must be actively managed and reported immediately to appropriate regulatory authorities to minimise any potential damage to the environment.
- **65.** Dust generation during demolition / site clearance / construction shall be controlled using regular control measures such as on site watering or damp cloth fences.
- **66.** All vehicles transporting loose materials and travelling on public roads must be secured (i.e. closed tail gate and covered) to minimise dust generation.
- **67.** Spraying of paint and other materials with the potential to become air borne particulates must only be undertaken in light wind conditions.

68. Non-recyclable waste and containers must be regularly collected and disposed of at a licensed landfill or other disposal site in the area in accordance with details set out in the Waste Management Plan to be prepared and submitted to the Land & Housing Corporation prior to the commencement of demolition/construction.

Impact of Construction Works

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

PRIOR TO OCCUPATION OF THE DEVELOPMENT

The following identified requirements are to be complied with prior to the occupation of the development.

General

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

Termite Protection

72. To protect buildings from subterranean termite, termite barriers installed in accordance with AS 3660.1 are required on the underside and 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.

Damage to Council Assets

73. The cost of repairing any damage caused to the City of Newcastle Council's assets in the vicinity of the subject site as a result of demolition / site clearance / construction works associated with the approved development is to be met in full by the building contractor.

Stormwater Drainage

- **74.** Prior to occupation of the development, a Work As Executed Plan must be prepared clearly showing all aspects of the constructed stormwater drainage system, including any on-site detention system and any works undertaken in the road reserve. The plan shall demonstrate general compliance with the approved concept stormwater drainage plan(s) and must include:
 - Sufficient levels and dimensions to verify the constructed storage volume.

- Location and surface levels of all pits.
- Invert levels of the internal drainage line, orifice plates fitted and levels within the outlet control pit.
- Finished floor levels of all structures.
- Verification that any required trash screens have been installed.
- Locations and levels of any overland flow paths.
- Verification that any drainage lines are located wholly within easements.

The plans shall be prepared by a Practicing Professional Engineer or Registered Surveyor experienced in the design of stormwater drainage systems.

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

A copy of the Work As Executed Plan shall be submitted to Land and Housing Corporation and to City of Newcastle Council prior to occupation.

A positive covenant and restriction-as-to-user must be placed over the onsite detention system in accordance with the City of Newcastle Council's on-site detention policy to ensure that system will be adequately maintained. The positive covenant and restriction-as-to-user must be registered at NSW Land Registry Services prior to occupation of the development. A copy of the registered restriction-as-to-user is to be provided to the Land & Housing Corporation and the council.

PART B – Additional Identified Requirements

Site Specific Requirements

- **75.** Floor levels The proposed development is to have a minimum finished floor level for Unit 1 to 5 to be set at +5.1m or above, and Unit 6 to 8 to be set at +5.5m or above to provide adequate freeboard above the 1% Annual Exceedance Probability (AEP) flood event, as recommended by the Flood impact assessment report prepared by BMY Commercial Australia Pty Ltd, dated 8 February 2023.
- **76.** Lighting External lighting is to be provided in accordance with AS1158 to roads and pedestrian spaces, and avoid light spill to private areas.
- 77. Flooding All electrical fixtures such as power points, light fittings and switches are to be sited above the FPL unless they are on a separate circuit (with earth leakage protection) to the rest of the building.
- **78. Flooding -** Where parts of the building are proposed below the flood planning level, they are constructed of water-resistant materials.
- **79. Flooding** An on-site flood free refuge area to be provided in accordance with the standards specified in Newcastle DCP 2012 and it is to be clearly marked on the set of construction drawings prior to construction.
- **80. Flooding** A design certification by a practicing structural engineer that the building is able to withstand the hydraulic loading due to flooding is required prior to construction.

Requirements resulting from consideration of the City of Newcastle Council's notification response in the REF

- **81. Flood Management** Certification is to be prepared by a Registered Surveyor and submitted to the Building Superintendent at the stages of construction indicated:
 - a) On completion of ground floor construction, confirming that the floor levels are in accordance with the approved levels.
 - b) On completion of each subsequent floor level, confirming that the floor levels are in accordance with the approved levels.
- 82. Stormwater: Flow paths proposed along the east and west property boundaries for major storm runoff must be shaped such that conveyed stormwater flows are contained wholly within the development site up to and including the 5% AEP.
- 83. Stormwater: The proposed new kerb inlet pit must be connected to Council's existing stormwater system via 375mm diameter Reinforced Concrete Pipe (RCP) at a minimum 1% fall as required by Council's 'Stormwater and Water Efficiency for Development' Technical Manual.
- 84. Stormwater: A Stormwater Maintenance Manual for stormwater devices, including rainwater reuse and retention tanks, is be prepared in accordance with Councils 'Stormwater and Water Efficiency for Development' Technical Manual. The Maintenance Manual is to address maintenance issues including routine monitoring and regular maintenance and is to be kept on site at all times. Establishment and maintenance of the water quality devices in accordance with the Maintenance Manual must be prepared and completed prior to occupation of this site for the intended use.
- 85. Roofwater: An electronically activated mechanical valve device is to be installed on the water reuse tank to switch to mains water when the water level in the tank falls below 100mm in depth. The water tank and plumbing are to be designed in accordance with the Plumbing Code of Australia (National Construction Code Volume 3).
- 86. Civil Plans: Engineering design plans and specifications for the works being undertaken within the public road reserve are required to be prepared by a suitably qualified practising civil engineer with experience and competence in the related field. A copy of the plans is to be submitted to Council prior to work commencing. Land & Housing Corporation shall arrange for necessary inspections by Council whilst the work is in progress and/or after completion of the works, together with the payment of any Council inspection fees.
- **87.** Vehicular Crossing: A 5.5m wide commercial driveway crossing, constructed in accordance with City of Newcastle' Council's *Driveway Crossing Standard Design Details* (CN A1300) is to be provided to Matfen Close.
- **88. Driveway Entrance:** Letterboxes, landscaping and any other obstructions to visibility should be kept clear of or limited in height to 1.2 metre, in the 2 metres by 2.5 metre splay within the property boundary each side of the driveway entrance.

- 89. Waste Bin Provision: Waste bins are to be provided as follows:
 - 7 x 240L for General Waste (1,480L collected weekly)
 - 9 x 360L for Recycling Waste (2,960L collected fortnightly
 - 3 x 240L for Organic Waste (800L collected fortnightly)
- **90. House Numbering:** The premises are to be identified by the provision of house and street numbers on the building exterior and mailbox, respectively, such that they are clearly visible from the road frontage.

The minimum numeral heights are to be:

- a) exterior of the building = 75mm and
- b) group mailbox street number = 150mm
- c) group mailbox house number = 50mm

Street addresses to be provided in accordance with the following Schedule provided by City of Newcastle Council:

ADDRESS SCHEDULE						
Unit/ Dwelling/ Lot	Council Allocated Street Addresses					
Number on plan	House Number	Street Name	Street Type	Suburb		
Primary Site Address	38	John T Bell	Drive	Maryland		
Alternative Site Address	31	Matfen	Close	Maryland		
Proposed Unit 1	6/38	John T Bell	Drive	Maryland		
Proposed Unit 2	5/38	John T Bell	Drive	Maryland		
Proposed Unit 3	2/38	John T Bell	Drive	Maryland		
Proposed Unit 4	1/38	John T Bell	Drive	Maryland		
Proposed Unit 5	10/38	John T Bell	Drive	Maryland		
Proposed Unit 6	14/31	Matfen	Close	Maryland		
Proposed Unit 7	13/31	Matfen	Close	Maryland		
Proposed Unit 8	12/31	Matfen	Close	Maryland		
Proposed Unit 9	3/38	John T Bell	Drive	Maryland		
Proposed Unit 10	7/38	John T Bell	Drive	Maryland		
Proposed Unit 11	4/38	John T Bell	Drive	Maryland		
Proposed Unit 12	3/38	John T Bell	Drive	Maryland		
Proposed Unit 13	9/38	John T Bell	Drive	Maryland		
Proposed Unit 14	16/31	Matfen	Close	Maryland		
Proposed Unit 15	15/31	Matfen	Close	Maryland		
Proposed Unit 16	11/31	Matfen	Close	Maryland		

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 *www.1100.com.au* or by dialing 1100.



Decision Statement

SITE IDENTIFICATION				
STREET ADDRESS				
Unit/Street No	Street or property name			
38-40 & 31-33	John T Bell Drive & Matfen Close			
Suburb, town or locality		Postcode		
Maryland, NSW		2287		
Local Government Area(s)	Real property description (Lot and	DP)		
City of Newcastle	Lots 111, 112, 116, 117 in DP253956			
ACTIVITY DESCRIPTION				
Provide a description of the activity				

Demolition of 4 dwellings and construction of 2 residential flat buildings containing 16 dwellings, comprising 6 x 1-bedroom and 10 x 2-bedroom units, parking for 8 vehicles, associated site works and landscaping, and consolidation of 4 lots 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 Newcastle City Council 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 residential flat buildings will have economic and social benefits and any minor short-term impacts on the environment or surrounding properties can be appropriately mitigated.
- The proposed residential flat buildings will assist LAHC in providing new, fit for purpose housing in the Newcastle area which will assist in addressing the existing and growing demand for accommodation in this local government area.

[.] 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.

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 ensure legislative compliance.

Signed... 7

Dated...18 June 2023.....

Robert Stark Acting Head of Policy and Innovation Land and Housing Corporation Department of Planning & Environment

DEVELOP

LAHC Maryland Development - BGWY7 38, 40 John T Bell Dr & 31, 33 Matfen Cl Maryland NSW 2287

Lot 111, 112, 116, 117/-/DP253956

Location Map





		DE	VELOPME	ENT DATA			
Job Pafaranaa	BCTY2 29.40		0 8 31 33 14-	tfan Cloca Mondard	(Residential FI-4	Building)	
Job Reference BGTX2 - 38-40 John T Bell Drive & 31-33 Matten Close, Maryland (Residential Flat Building) Locality / Suburb Maryland (Newcastle City Council)							
Street Address 38-40 John T Bell Drive & 31-33 Matten Close Lot & DP Lots 111, 112, 116, and 117 DP253956 SITE AREA 2311							
EXISTING LOTS				4			
PROPOSED GFA	1041 10 x 2 Bed						
DWELLING #		10 x 2 Bed 6 x 1 Bed					
DWELLING #				= 16 Dwellings			
WELLINGS	Number	Type*	No c	= 10 Dwenings of Bedrooms	Area*(r	m²)	POS
	1	ground	2	Social General	76	. ,	23
	2	ground	1	Social General	50		17
	3	ground	1	Social General	50		17
	4	ground	2	Social General	71		23
	5	ground	2	Social General	76		21
	6	ground	2	Social General	71		25
	7	ground	2	Social General	71		25
	8	ground 1st	1	Social General Social General	53 76		17
	10	1st	1	Social General Social General	76		9
	10	1st	1	Social General	50		9
	12	1st	2	Social General	71		10
	13	1st	2	Social General	76		10
	14	1st	2	Social General	71		10
	15	1st	2	Social General	71		10
	16	1st	1	Social General	58		10
	Cont			Requirement		Prop	osed
ZONING	Council - Nev		R	2 Low Density Resid	ential	R	2
HEIGHT	Council - Nev		I	8.5m		8.36m R	dge Line
	Housing		0.75.4	9.0m			
FSR	Council -		U.75:1 + 0.	5 FSR Bonus pursua		0.4	45
	Housing	Housing SEPP Prevailing set		of Housing SEPP etback within 40m ei			
		Front Street	site. John T Bell Drive - 7.4m		7.0m John		
		Setback	Marria	Matfen Close - 8.32		5.8m M	atfen Cl
		1		encroachment of ba			
SETBACK	Council -	Secondary	<u> </u>	Newcastle DCP 3.03.	VID		
SEIDAUN	Newcastle DCP	wcastle DCP Street		2m		N	A
		Side Setback	0.9m up to a 4:1 up t	a height of 4.5m, the to the maximum perm	n at an angle of nitted height	3	n
		Rear Setback		o 4.5m and 6m greate		N	A
PARKING	Housing SEPP (Division 1)	accessible		0.5 x 10 (no. 2 Beds) = 5.0 0.4 x 6 (no. 1 beds) = 2.4		8 Car s	spaces
LANDSCAPED	Housing SEPP (Division 1)	General	35sqm per	Dwelling (Social Hous 560sq	sing Provider) =	615.8	9sqm
DEEP SOIL	Housing SEPP (Division 1)	General		% (3m dimension) = 3 5% at rear (if practic		576.8 411.70m2 a	
SOLAR ACCESS	Housing SEPP (Division 1)	General	70% for 3 hrs in Mid-Winter = 11.2 dwellings		14 Dw 87.		
POS	SLUDG / LAHC Dwelling Requirement	General	Ground Floor: Min 15m2 (min dimension 3m) 1st Floor: Min 8m2 (1-Bed) & 10m2 (2-bed) (min. dimension 2m)		Refer to ta	able abov	
CUT AND FILL	Council - Newcastle DCP	General	Excavation - 1m depth within 1m of a boundary to meet			Finished Fid be raised by to meet fid lev	500-600 od plani
DWELLING SIZE	Housing SEPP	General	1-bed: min.	50m2		Refer to ta	

5 Activity Submission Part



CASTLE	Notes
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description	date	verified
For Client Review	24/11/2021	01
For Client Review	1/2/2022	02
For Client Review	28/2/2022	03
For Client Review	27/4/2022	04
Issue for Information	26/5/2022	05
Issue for Review	8/6/2022	06
Issue for Review	12/7/2022	07
Draft Part 5 Activity Submission	19/7/2022	08
Part 5 Activity Submission	21/7/2022	A
Part 5 Activity Submission	26/8/2022	B



2) 4943 1 ndscape Architec Keriscapes L/28 Adelaide Street East Gosford NSW 2 02) 4302 0477

Civil/Structural Enginee

Electrical Enginee Land & Housing Corporation Hydraulic Enginee McCallums PFCA 5/35 Smith St,



LAHC Maryland Development - BGWY7

38, 40 John T Bell Dr & 31, 33 Matfen C Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287

18 June 2023

Drawing List A-0001 Cover Sheet A-0002 Planning Controls Block Analysis A-0003 Site Analysis Plan A-0004 A-0101 Demolition Plan Site Plan - Ground A-1001 Site Plan - First Floo A-1002

4-100Z	Sile Fian - Fisc Fiou
A-1003	Site Plan - Roof
A-1101	Ground Floor Plan - South
A-1102	Ground Floor Plan - North
A-1103	First Floor Plan - South
A-1104	First Floor Plan - North
A-1105	Roof Plan - South
A-1106	Roof Plan - North
A-2001	Street Elevations
A-2002	East / West Elevation
A-2003	Int. North / South Elev.
A-3001	Section A
4-3002	Section B & C
A-4001	Cut & Fill Diagram
A-4002	Waste Management Plan
A-4003	RFB & Landscape - Area
A-5001	Shadow Diagrams
4-5002	Solar - South
4-5003	Solar - North
A-6001	Schedule of Finishes
A-6002	Matfen Close

General Notes

ALL DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE.

ALL BUILDING WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT AND REGULATIONS, THE BUILDING CODE OF AUSTRALIA, AND APPROVED PLANS.

BUILDER SHALL MAKE GOOD ALL DISTURBED AREAS ADJACENT TO THE WORKS ON COUNCIL PROPERTY.

ALL CONCRETE FOOTINGS, FLOOR SLABS, COLUMNS, AND ROOF FRAMING TO STRUCTURAL ENGINEER'S DETAIL.

ALL STORMWATER REQUIREMENTS, EXTERNAL RL'S AND DRIVEWAY LEVELS TO CIVIL ENGINEER'S DETAILS IF REQUIRED.

ALL LANDSCAPE AREAS, EXISTING TREES, AND DRIVEWAY TO LANDSCAPE PLANS IF REQUIRED.

Part

- drawing title	C drawing scale	drawn — verified —	date
Preliminary	AS SHOWN	SC	26/8/2022
	- project #	drawing #	issue
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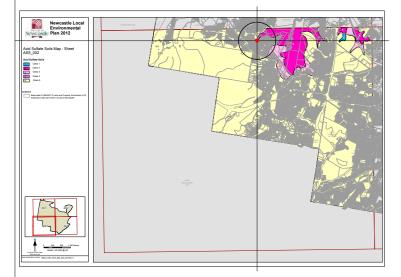
DETERMINED by the NSW Land and Housing Corporation on:

Newcastle LEP 2012

l	LAND ZONE	R2 Low Density Residential
ł	HEIGHT OF BUILDING	8.5m
F	FLOOR SPACE RATIO	0.75:1
I	MINIMUM LOT SIZE	450m ²
	ACID SULFATE SOILS	Class 2
l	LAND APPLICATION	N/A
l	LAND RESERVATION	N/A
ł	KEY SITES	N/A
ł	HERITAGE	N/A
	SITE AREA	4174m ²
	ALLOWABLE GFA	3130m ²



INIMUM LOT SIZE 450m²



ACID SULFATE SOILS Class 2

NOTE: PRELIMINARY AUTHORITY CONTROL INFORMATION SUBJECT TO PLANNER AND COUNCIL REVIEW AND FURTHER INVESTIGATION



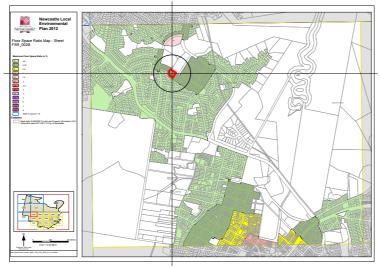
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Newcastle Local Environmental Newcastle Plan 2012	
Land Zoning Map - Sheet LZN_002B	
Zane E Replandand Conto E Conto Conto E Conto Conto E Conto Conto E Conto Conto E Conto Conto E Conto Conto E Co	
Comparison of the second	

LAND ZONE R2 Low Density Residential



HIEGHT OF BUILDING 8.5m



FLOOR SPACE RATIO 0.75:1

Newcastle DCP 2012

3.30 RESIDENTIAL DEVELOPMENT	KEY CRITERIA RESID
FRONT SETBACK	AVERAGE OF ALL FRON
SIDE SETBACKS	0.9m UP TO 4.5m THEN ANGLE AT 4:1 TO I
LANDSCAPE AREA	MIN 30% OF SITE LANDS MIN 15% OF SITE DEEP
SOLAR & DAYLIGHT ACCESS	2 HRS DIRECT SUNLIGH
DWELLING SIZE & LAYOUT	MIN 90m ² FOR 2B MIN 115m ² FOR 3B +5m ² FOR ADDITIONAL B
PRIVATE OPEN SPACE	MIN 16m ² PRIVATE OPEN MIN DIMENSION 3m 50% OF P.O.S. COVERED
STORAGE	2B MIN 8M ³ 3B MIN 10m ³ MIN 50% LOCATED WITH
UNIVERSAL DESIGN	SENIORS HOUSING SEF LIVABLE HOUSING SILVI
7.03 TRAFFIC, PARKING & ACCESS	
CAR PARKING	MIN 1 SPACE PER DWEL MIN 1 VISITOR SPACE P
BIKE PARKING	1 SPACE PER DWELLING

HOUSING SEPP 2021

SOLAR ACCESS	70% OF DWELLINGS TO 3HRS MID-WINTER BE
PARKING (FOR SOCIAL HOUSING PROVIDER - ACCESSIBLE SITE)	1B - 0.4 SPACE PER DV 2B - 0.5 SPACE PER DV
LANDSCAPE	35m ² PER DWELLING
DEEP SOIL ZONE	15% SITE AREA (3m WI 65% AT REAR OF SITE.
DWELLING SIZE	1B - 50m² 2B - 70m²

rchitecture PTY LTD ABN 12 129 231 269	issue	e description	date	verified	– key plan – North Point	Civil/Structural Engineers	Electrical Engineer	clients	
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ant of work. to be read in conjunction with all contract documents. Imensions only. Do not scale from drawings.	04	For Client Review Issue for Information Issue for Review	27/4/2022 26/5/2022 8/6/2022	04		(02) 4943 1777 Landscape Architects	(02) 4967 5999	NAME 1	38. 40 John T Bell Dr & 31. 33 Matfen Cl
cture cannot guarantee the accuracy of content and format for copies of sed electronically. on of the issue details checked and authorised section below is	06	Issue for Review Issue for Review Draft Part 5 Activity Submission	12/7/2022 19/7/2022	07 08	$\sqrt{\mathcal{V}}$	Xeriscapes 1/28 Adelaide Street,	Hydraulic Engineer McCallums PFCA 5/35 Smith St,	Diamain of 0	Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287
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18 June 2023

IDENTIAL FLAT BUILDING

NT SETBACKS WITHIN 40m OF SITE

MAX HEIGHT

DSCAPE AREA SOIL ZONE

HT BETWEEN 9am & 3pm

BATHROOMS

EN SPACE

ED WITH SHADE

THIN DWELLING

EPP, OR; VER UNIVERSAL DESIGN FEATURES

ELLING PER 5 DWELLINGS

PACE PER DWELLING UNLESS SEPARATE

TO RECEIVE ETWEEN 9am & 3pm.

WELLING WELLING

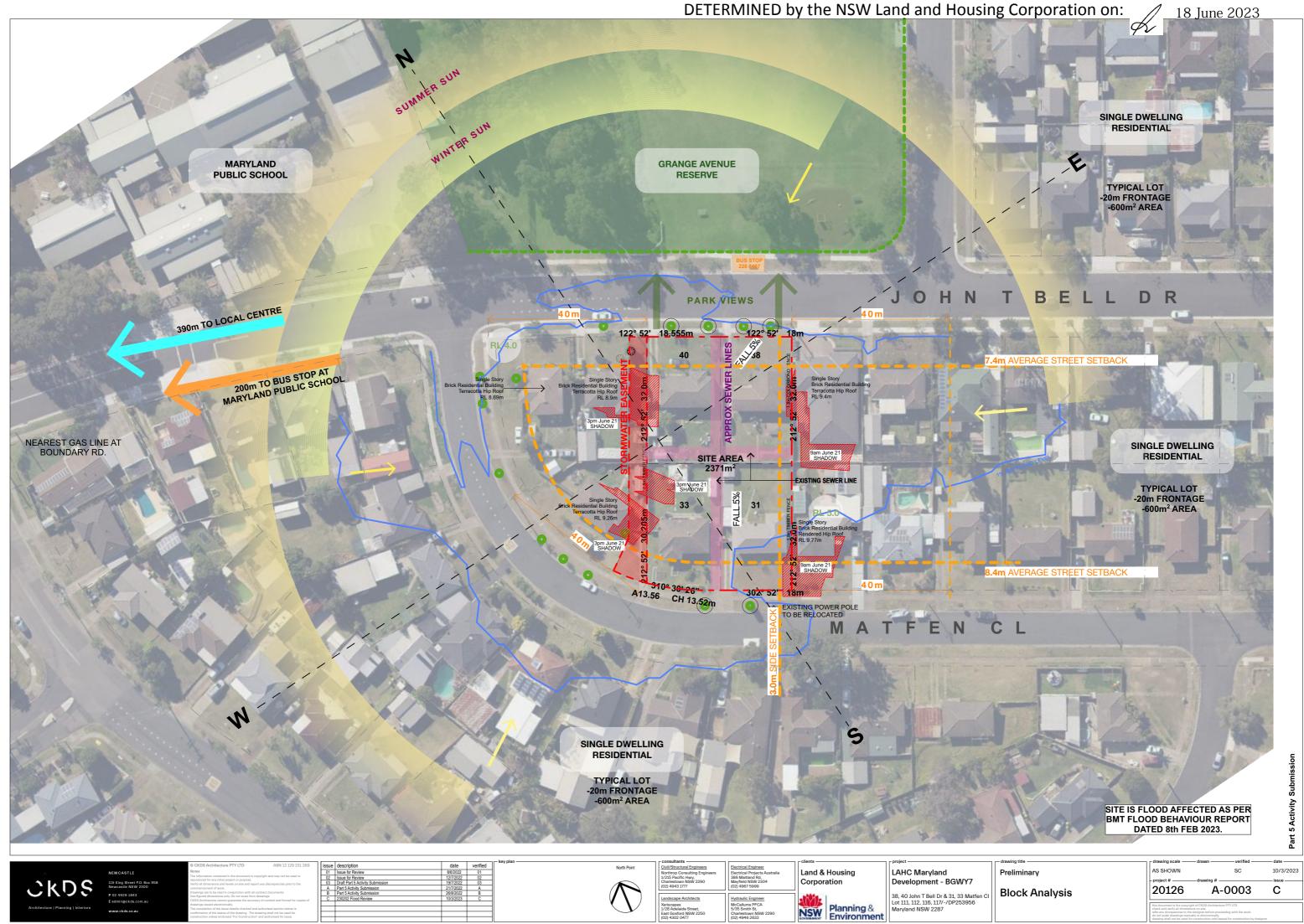
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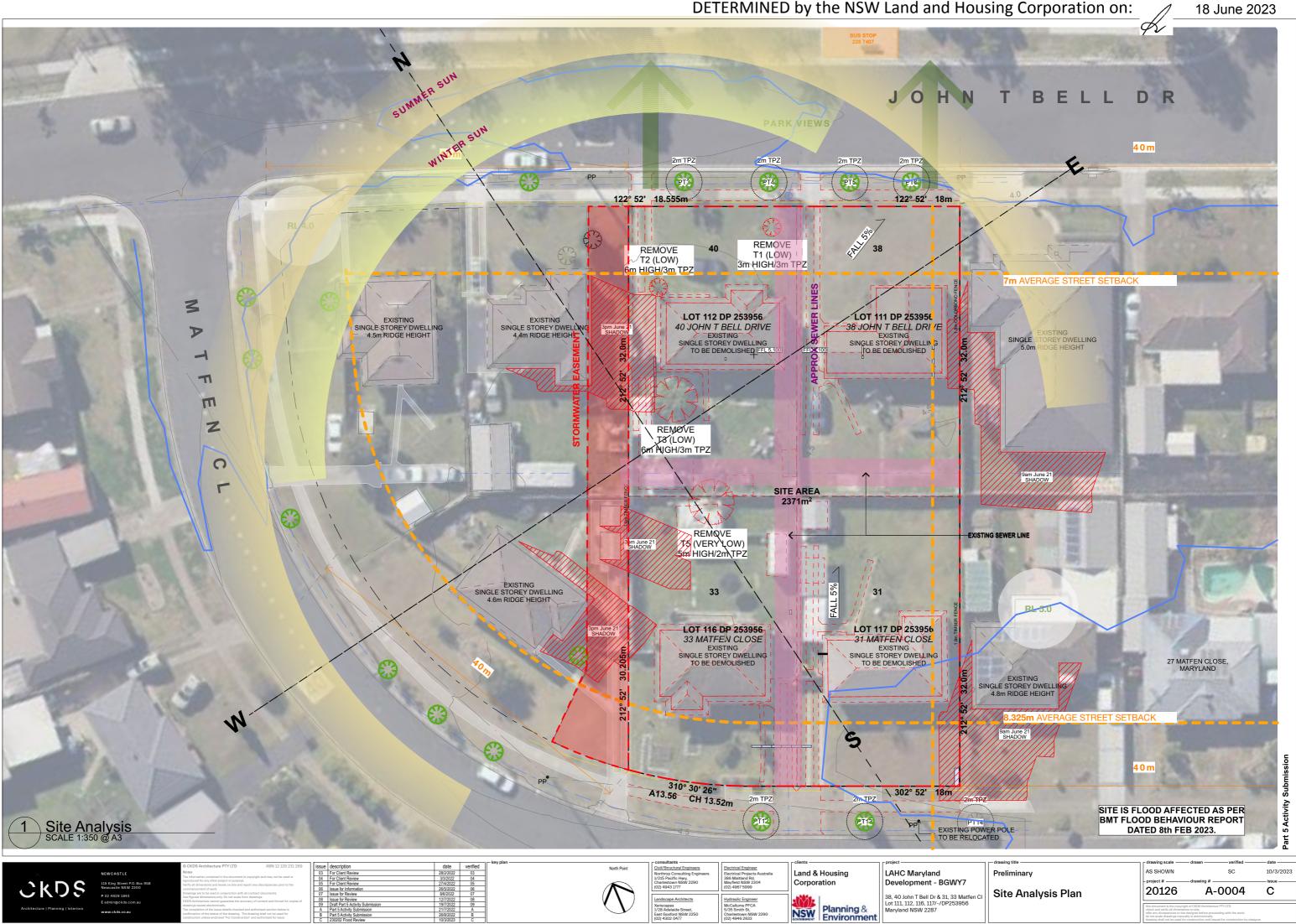
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Planning Controls

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							r key plan	- consultants		- clients	- project	dr
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		The information contained in the document is copyright and may not be used or	02	Issue for Review	12/7/2022	02		1/215 Pacific Hwy,	386 Maitland Rd,			
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	Newcastle NSW 2300	commencement of work.	A	Part 5 Activity Submission	21/7/2022	A		(02) 4943 1777	(02) 4967 5999			
	P 02 4929 1843	Drawings are to be read in conjunction with all contract documents.	В	Part 5 Activity Submission	26/8/2022	В				-	38, 40 John T Bell Dr & 31, 33 Matfen Cl	L E
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	E admin@ckds.com.au	drawings issued electronically.						Xeriscanes	McCallums PECA		Lot 111, 112, 116, 117/-/DP253956	
Architecture Planning Interiors	www.ckds.co.au	The completion of the issue details checked and authorised section below is						1/28 Adelaide Street,	McCallums PFCA 5/35 Smith St,	Planning &	Marvland NSW 2287	
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						- key plan	- consultants			- project
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CKDS	115 King Street P.O. Box 958	Verify all dimensions and levels on site and report any discrepancies prior to the	05 For Client Review	27/4/2022	05		Charlestown NSW 2290 (02) 4943 1777	Mayfield NSW 2304 (02) 4967 5999	Corporation	Development - BGWY7
	Newcastle NSW 2300	commencement of work.	06 Issue for Information	26/5/2022	06		(02) 4943 1/77	(02) 4967 5999		
	P 02 4929 1843	Drawings are to be read in conjunction with all contract documents.	07 Issue for Review	8/6/2022	07				-	38, 40 John T Bell Dr & 31, 33 Matfen
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	E adminigeckds.com.ad	drawings issued electronically.	09 Draft Part 5 Activity Submission	19/7/2022	09		Xeriscapes	McCallums PFCA 5/35 Smith St,		Lot 111, 112, 116, 117/-/DP253956
Architecture Planning Interiors	www.ckds.co.au	The completion of the issue details checked and authorised section below is	A Part 5 Activity Submission	21/7/2022	A	$\setminus V$		5/35 Smith St,	Planning &	Maryland NSW 2287
		confirmation of the status of the drawing. The drawing shall not be used for construction unless and orred "For Construction" and authorized for issue.	B Part 5 Activity Submission	26/8/2022	В			Charlestown NSW 2290 (02) 4946 2633	NSW Environment	



Lot 111 - 38 John T Bell Drive

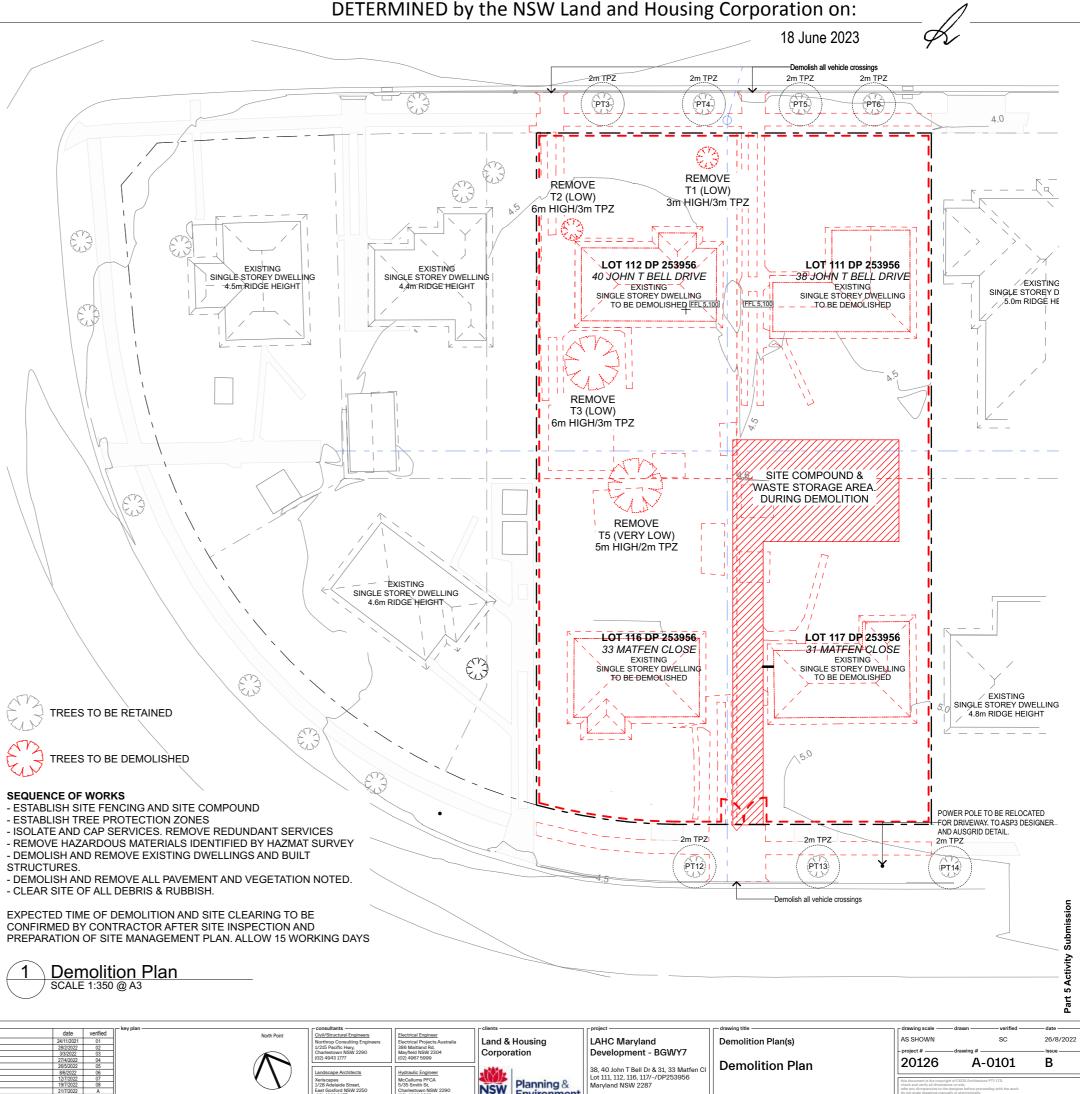


Lot 112 - 40 John T Bell Drive





Lot 117 - 31 Matfen Close









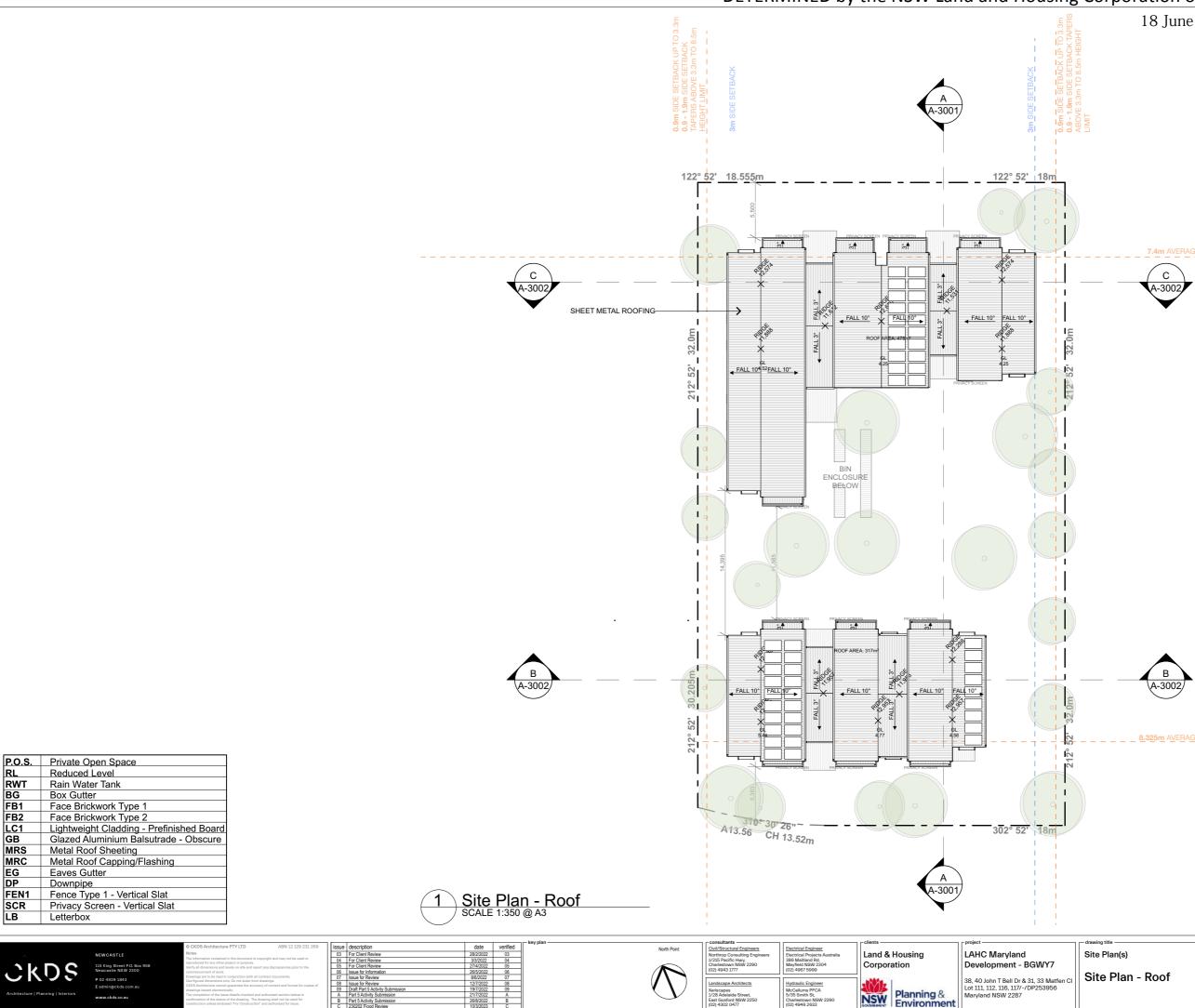
Private Open Space
Reduced Level
Rain Water Tank
Box Gutter
Face Brickwork Type 1
Face Brickwork Type 2
Lightweight Cladding - Prefinished Board
Glazed Aluminium Balsutrade - Obscure
Metal Roof Sheeting
Metal Roof Capping/Flashing
Eaves Gutter
Downpipe
Fence Type 1 - Vertical Slat
Privacy Screen - Vertical Slat
Letterbox

CKDS 115 King Street P. Newcastle NSW 2 P 02 4929 1843



NSW Planning & Environment

DETERMINED by the NSW Land and Housing Corporation on:



18 June 2023



7.4m AVERAGE STREET SETBACK

8.325m AVERAGE STREET SETBACK

SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT DATED 8th FEB 2023.

trawing scale

20126

AS SHOWN

project # -

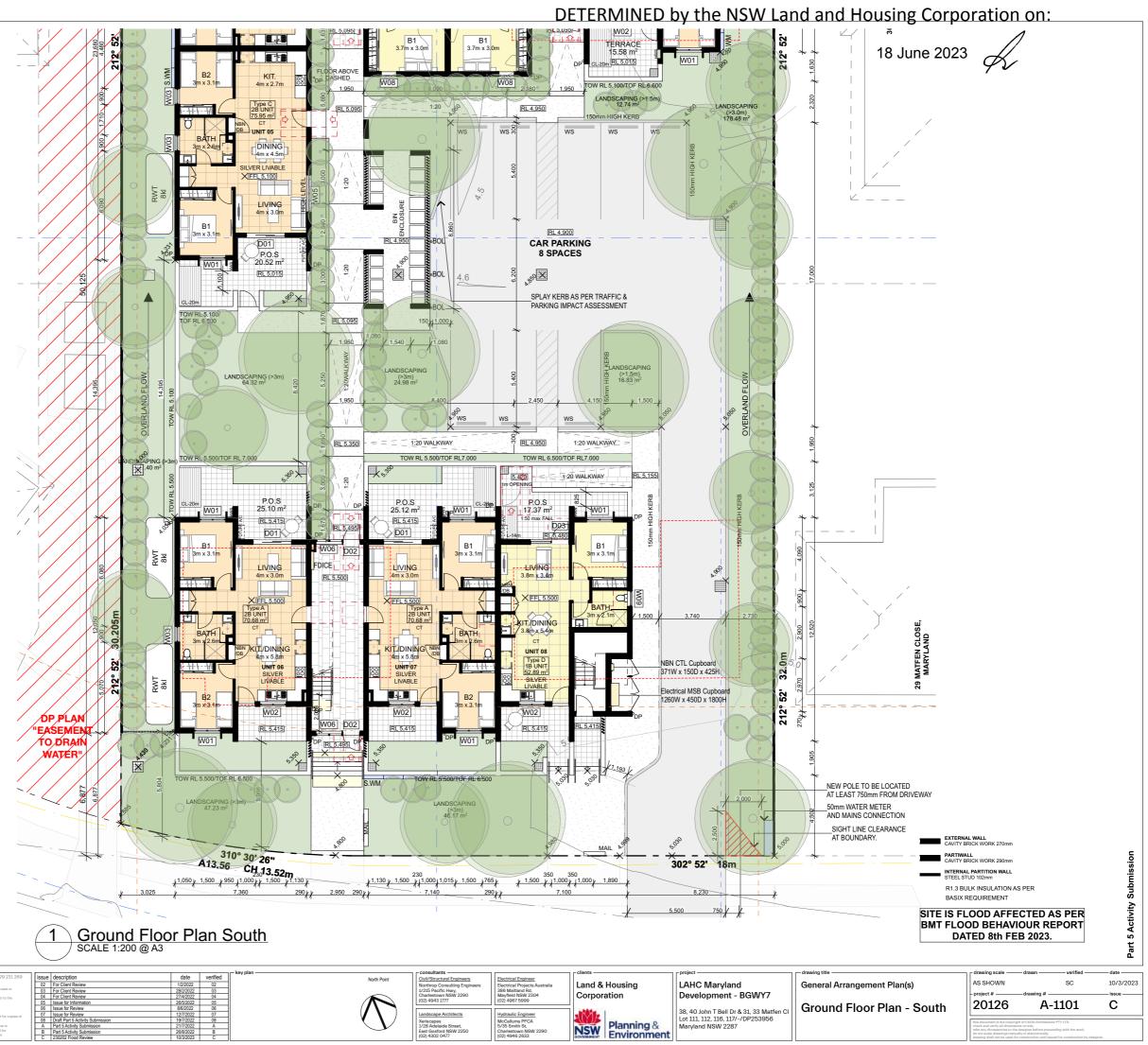
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A-1003

Part 5 Activity

10/3/2023

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P.O.S.	Private Open Space
RL	Reduced Level
RWT	Rain Water Tank
BG	Box Gutter
FB1	Face Brickwork Type 1
FB2	Face Brickwork Type 2
LC1	Lightweight Cladding - Prefinished Board
GB	Glazed Aluminium Balsutrade - Obscure
MRS	Metal Roof Sheeting
MRC	Metal Roof Capping/Flashing
EG	Eaves Gutter
DP	Downpipe
FEN1	Fence Type 1 - Vertical Slat
SCR	Privacy Screen - Vertical Slat
LB	Letterbox

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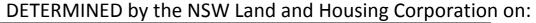


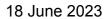
Private Open Space
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Metal Roof Capping/Flashing
Eaves Gutter
Downpipe
Fence Type 1 - Vertical Slat
Privacy Screen - Vertical Slat
Letterbox

CKDS

							- key plan
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115 King Street P.O. Box 958	Verify all dimensions and levels on site and report any dis-	crepancies prior to the	04	For Client Review	27/4/2022	04	
Newcastle NSW 2300	commencement of work.		05	Issue for Information	26/5/2022	05	
P 02 4929 1843	Drawings are to be read in conjunction with all contract d Use floured dimensions only. Do not scale from drawings.		06	Issue for Review	8/6/2022	06	
E admin@ckds.com.au	CKDS Architecture cannot guarantee the accuracy of con		07	Issue for Review	12/7/2022	07	
E adminglekds.com.au	drawings issued electronically.		08	Draft Part 5 Activity Submission	19/7/2022	08	
www.ckds.co.au	The completion of the issue details checked and authorised section below is confirmation of the status of the drawing. The drawing shall not be used for construction unless endorsed "For Construction" and authorised for issue.		A	Part 5 Activity Submission	21/7/2022	A	
			В	Part 5 Activity Submission	26/8/2022	B	
	construction unwas encorable. For construction and add	INTERNATION DELEMENT.	C	230202 Flood Review	10/3/2023	C	

 Consultants Civil/Structural Engineers Northrop Consulting Engineers 1/215 Pacific Hwy, Charlestown NSW 2290 (02) 4943 1777	Electrical Engineer Electrical Projects Australia 386 Maitland Rd, Maryfield NSW 2304 (02) 4967 5999	Land & Housing Corporation	LAHC Maryland Development - BGWY7
Landscape Architects Xeriscapes 1/28 Adelaide Street, East Gosford NSW 2250 (02) 4302 0477	Hydraulic Engineer McCallums PFCA 5/35 Smith St, Charlestown NSW 2290 (02) 4946 2633	NSW Planning & Environment	38, 40 John T Bell Dr & 31, 33 Matfen Cl Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287





General Arrangement Plan(s)

Ground Floor Plan - North

SC

A-1102

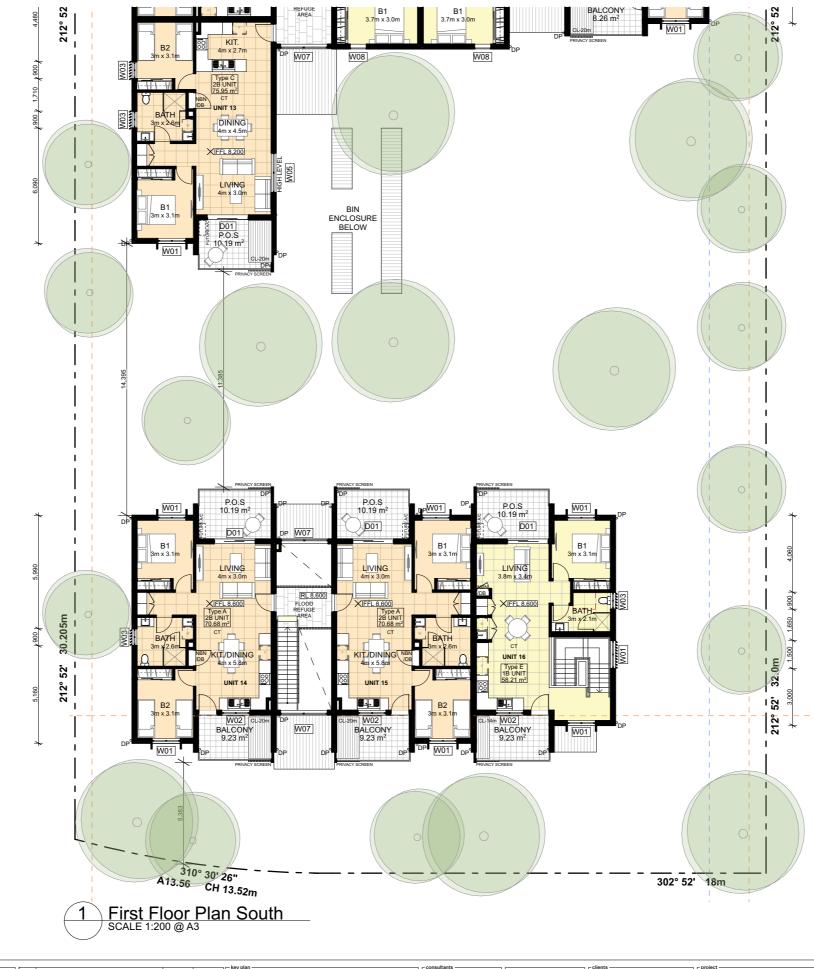
10/3/2023

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P.O.S.	Private Open Space
RL	Reduced Level
RWT	Rain Water Tank
BG	Box Gutter
FB1	Face Brickwork Type 1
FB2	Face Brickwork Type 2
LC1	Lightweight Cladding - Prefinished Board
GB	Glazed Aluminium Balsutrade - Obscure
MRS	Metal Roof Sheeting
MRC	Metal Roof Capping/Flashing
EG	Eaves Gutter
DP	Downpipe
FEN1	Fence Type 1 - Vertical Slat
SCR	Privacy Screen - Vertical Slat
LB	Letterbox

C

							key plan		- consultants		- clients	- project	- drawing title
		© CKDS Architecture PTY LTD ABN 12 129 231 269	issue	description	date	verified		North Point		Electrical Engineer			-
	NEWCASTLE	Notes		For Client Review	1/2/2022	02			Northrop Consulting Engineers	Electrical Projects Australia	Land & Housing	LAHC Maryland	General A
		The information contained in the document is copyright and may not be used or reproduced for any other project or purpose.		For Client Review	28/2/2022	03			1/215 Pacific Hwy,	386 Maitland Rd			
	115 King Street P.O. Box 958	Verify all dimensions and levels on site and report any discrepancies prior to the	04	For Client Review	27/4/2022	04				Mayfield NSW 2304	Corporation	Development - BGWY7	
- K I) S	Newcastle NSW 2300	commencement of work.	05	Issue for Information	26/5/2022	05			(02) 4943 1777	(02) 4967 5999			
KDS	P 02 4929 1843	Drawings are to be read in conjunction with all contract documents.	06	Issue for Review	8/6/2022	06						38, 40 John T Bell Dr & 31, 33 Matfen Cl	First Fl
		Use figured dimensions only. Do not scale from drawings. CKDS Architecture cannot guarantee the accuracy of content and format for content of	07	Issue for Review	12/7/2022	07			Landscape Architects	Hydraulic Engineer			
	E admin@ckds.com.au	drawings issued electronically.	08	Draft Part 5 Activity Submission	19/7/2022	08	y		Xeriscapes	McCallums PFCA		Lot 111, 112, 116, 117/-/DP253956	
tecture Planning Interiors	www.ckds.co.au	The completion of the issue details checked and authorised section below is	A	Part 5 Activity Submission	21/7/2022	A		∇V	1/28 Adelaide Street,		Planning &	Maryland NSW 2287	
	www.ckds.co.ad	confirmation of the status of the drawing. The drawing shall not be used for	B	Part 5 Activity Submission	26/8/2022	В		\smile	East Gosford NSW 2250	Charlestown NSW 2290			
		construction unless endorsed "For Construction" and authorised for issue.	C	230202 Flood Review	10/3/2023	С		I	(02) 4302 0477	(02) 4946 2633	GOVERNMENT ETIVITOTITTETL		

DETERMINED by the NSW Land and Housing Corporation on: 18 June 2023

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EXTERNAL WALL CAVITY BRICK WORK 270mn PARTIWALL CAVITY BRICK WORK 290mm INTERNAL PARTITION WALL STEEL STUD 102mm

BASIX REQUIREMENT

R1.3 BULK INSULATION AS PER

AS SHOWN

project # -

SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT 10/3/2023 SC

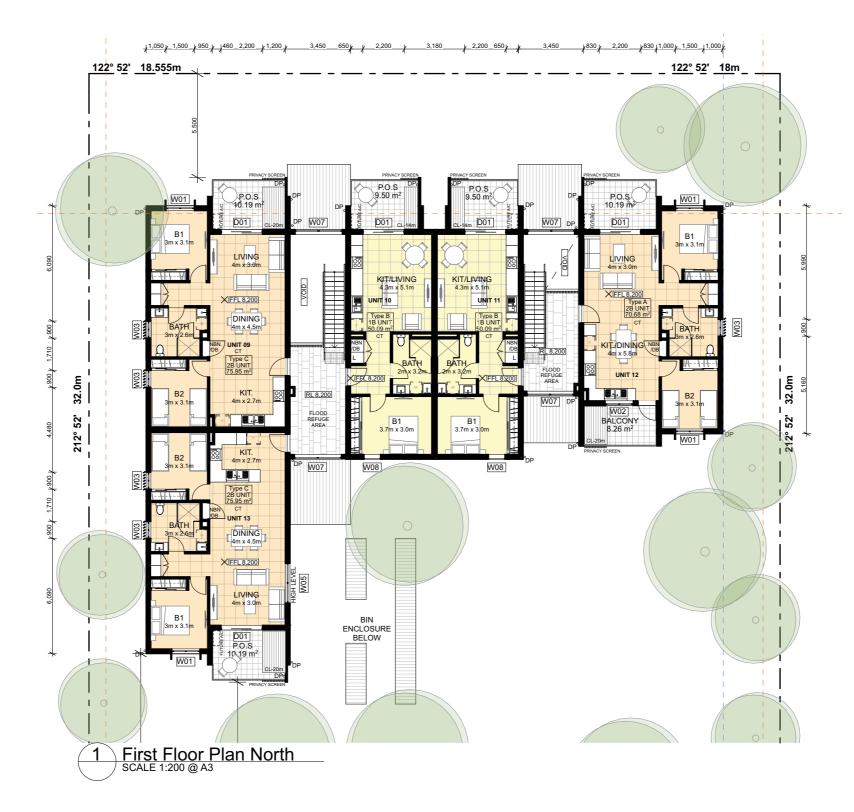
Part 5 Activity

Sub

General Arrangement Plan(s)

First Floor Plan - South

С 20126 A-1103



P.O.S.	Private Open Space
RL	Reduced Level
RWT	Rain Water Tank
BG	Box Gutter
FB1	Face Brickwork Type 1
FB2	Face Brickwork Type 2
LC1	Lightweight Cladding - Prefinished Board
GB	Glazed Aluminium Balsutrade - Obscure
MRS	Metal Roof Sheeting
MRC	Metal Roof Capping/Flashing
EG	Eaves Gutter
DP	Downpipe
FEN1	Fence Type 1 - Vertical Slat
SCR	Privacy Screen - Vertical Slat
LB	Letterbox

C

							- key plan	- consultants		- clients	= project
		© CKDS Architecture PTY LTD ABN 12 129 231 269	issue	description	date	verified	North Point		Electrical Engineer		project
	NEWCASTLE	Notes		For Client Review	1/2/2022	02			Electrical Projects Australia	Land & Housing	LAHC Maryland
		The information contained in the document is copyright and may not be used or	03	For Client Review	28/2/2022	03		1/215 Pacific Hwy,	386 Maitland Rd,		
kDS	115 King Street P.O. Box 958	Verify all dimensions and levels on site and report any discrepancies prior to the	04	For Client Review	27/4/2022	04			Mayfield NSW 2304	Corporation	Development - BGWY7
	Newcastle NSW 2300	commencement of work.	05	Issue for Information	26/5/2022	05		(02) 4943 1777	(02) 4967 5999		
ハンン	P 02 4929 1843	Drawings are to be read in conjunction with all contract documents.	06	Issue for Review	8/6/2022	06					38, 40 John T Bell Dr & 31, 33 Matfen Cl
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re Planning Interiors	www.ckds.co.au	The completion of the issue details checked and authorised section below is	A	Part 5 Activity Submission	21/7/2022	A	$\setminus V$	1/28 Adelaide Street,	5/35 Smith St,	Planning &	Maryland NSW 2287
	www.ckds.co.ad	confirmation of the status of the drawing. The drawing shall not be used for	B	Part 5 Activity Submission	26/8/2022	В	\bigcirc	East Gosford NSW 2250	Charlestown NSW 2290		
		construction unless endorsed "For Construction" and authorised for issue.	C	230202 Flood Review	10/3/2023	С		(02) 4302 0477	(02) 4946 2633	GOVERNMENT ETIVITOTITTETL	

18 June 2023

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Subi Part 5 Activity

date .

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10/3/2023

SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT DATED 8th FEB 2023.

R1.3 BULK INSULATION AS PER BASIX REQUIREMENT

AS SHOWN

project # -

INTERNAL PARTITION WALL STEEL STUD 102mm



XTERNAL WALL AVITY BRICK WORK 270mm



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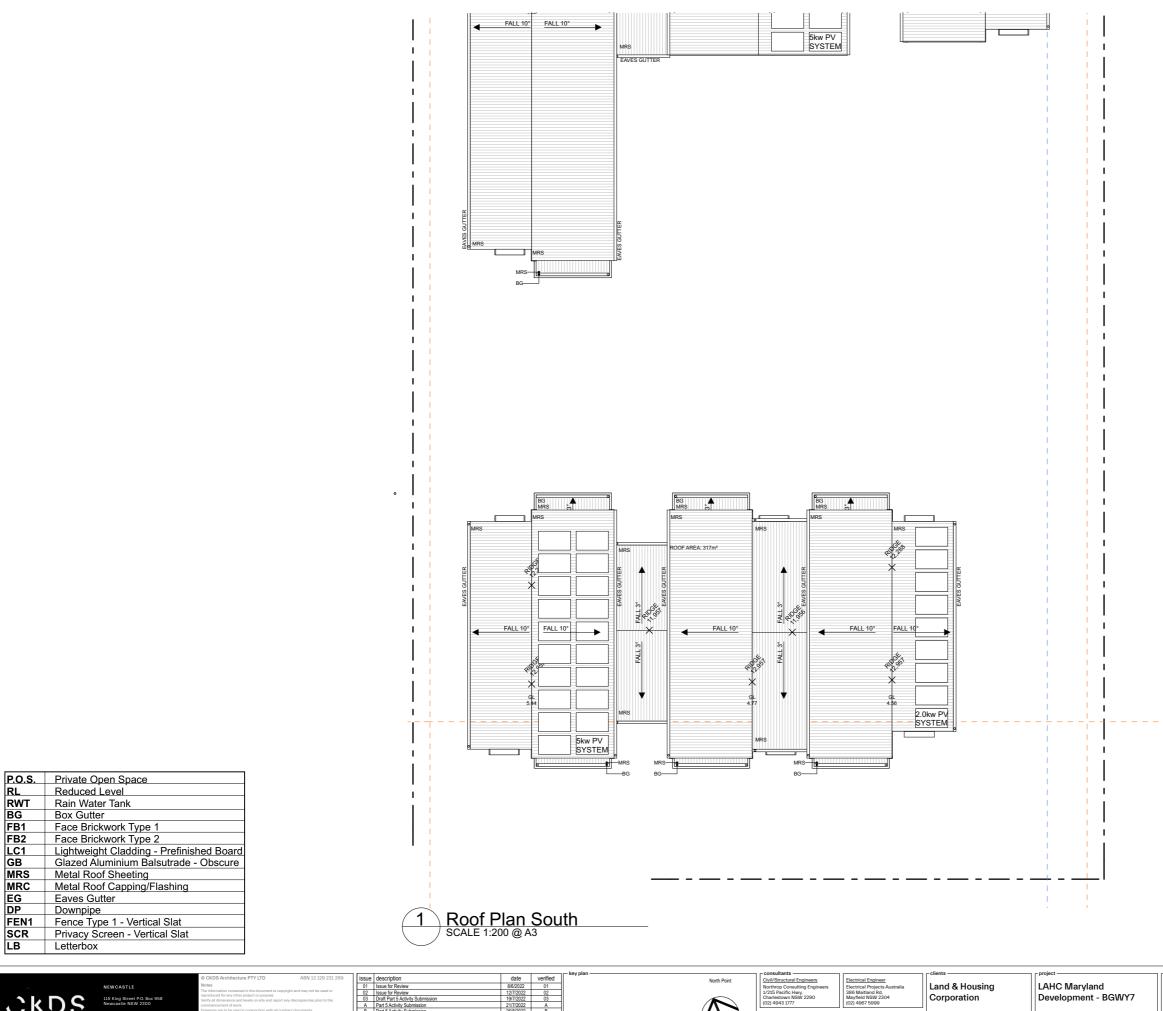


General Arrangement Plan(s)

First Floor Plan - North

20126 A-1104

SC



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ecture Planning Interiors	

Box Gutter

Eaves Gutter

Downpipe

RL RWT

BG

FB1 FB2

LC1 GB

MRS MRC EG DP

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18 June 2023

Part 5 Activity

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SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT DATED 8th FEB 2023.

drawing scale

AS SHOWN

project # -

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Development - BGWY7

38, 40 John T Bell Dr & 31, 33 Matfen C Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287

Corporation

NSW Planning & Environment

Hydraulic Engineer McCallums PFCA 5/35 Smith St, Charlestown NSW 2 (02) 4946 2633

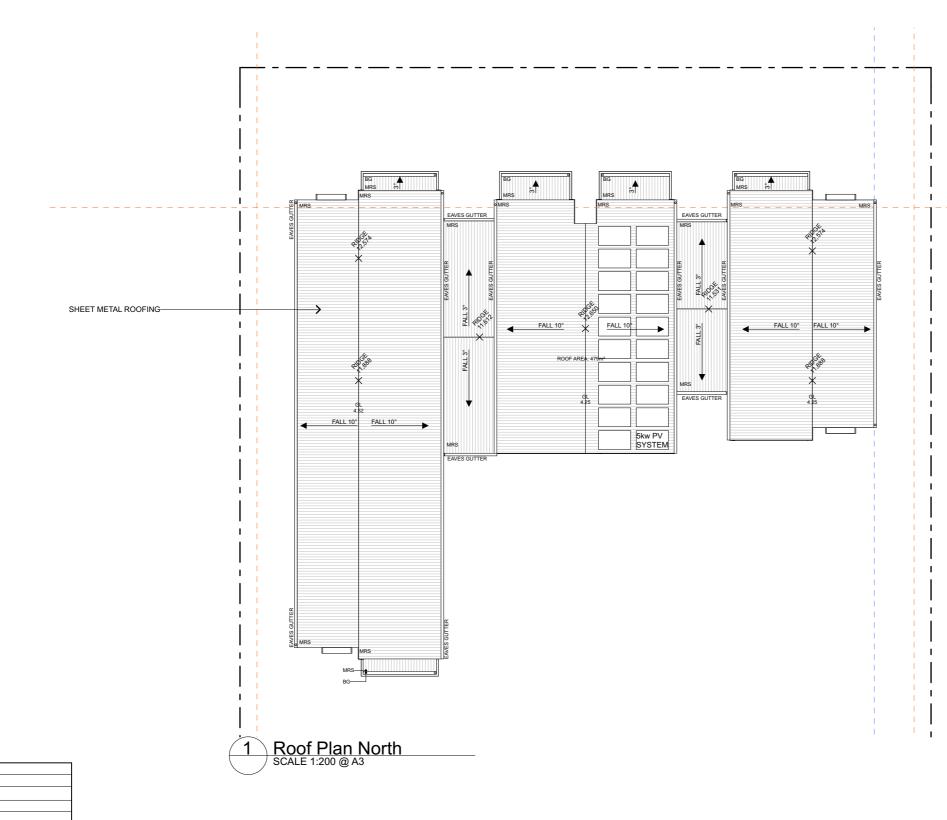
General Arrangement Plan(s)

Roof Plan - South





EXTERNAL WALL CAVITY BRICK WORK 270mm



P.O.S.	Private Open Space
RL	Reduced Level
RWT	Rain Water Tank
BG	Box Gutter
FB1	Face Brickwork Type 1
FB2	Face Brickwork Type 2
LC1	Lightweight Cladding - Prefinished Board
GB	Glazed Aluminium Balsutrade - Obscure
MRS	Metal Roof Sheeting
MRC	Metal Roof Capping/Flashing
EG	Eaves Gutter
DP	Downpipe
FEN1	Fence Type 1 - Vertical Slat
SCR	Privacy Screen - Vertical Slat
LB	Letterbox

SKDS	NEWCASTLE 115 King Street P.O. Box 958 Newcastle NSW 2300 P 02 4929 1843	O CKDS Architecture PTY LTD ABN 12 129 231 280 Webs The information contained in the document is copyright and may not be saids or reproduced for any other project or purpose. Outry of demonstrate and major any discognations prior to the Davidge are to be read to compute the aid and more any discognations Davidge are to be read to compute the aid and community. Davidge are to be read to compute the aid and community.	01 02 03 A	description Issue for Review Issue for Review Draft Fart 5 Activity Submission Part 5 Activity Submission Part 5 Activity Submission 230202 Proof Review Part Servity Submission	date 8/6/2022 12/7/2022 19/7/2022 21/7/2022 26/8/2022 10/3/2023	verified 01 02 03 A B C	- key plan North Point	Consultants Civil/Structural Engineers Northrop Consulting Engineers 17/25 Pacific Hwy, Charlestown NSW 2290 (02) 4943 37/7 Landscape Architects	Electrical Engineer Electrical Projects Australia 386 Maitland Rd, Mayfrield NSW 2304 (02) 4967 5999 Hydraulic Engineer	Corporation	LAHC Maryland Development - BGWY7 38, 40 John T Bell Dr & 31, 33 Matfen Cl
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18 June 2023

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Part 5 Activity



drawing scale

AS SHOWN

project # -20126



NTERNAL PARTITION WALL STEEL STUD 102mm





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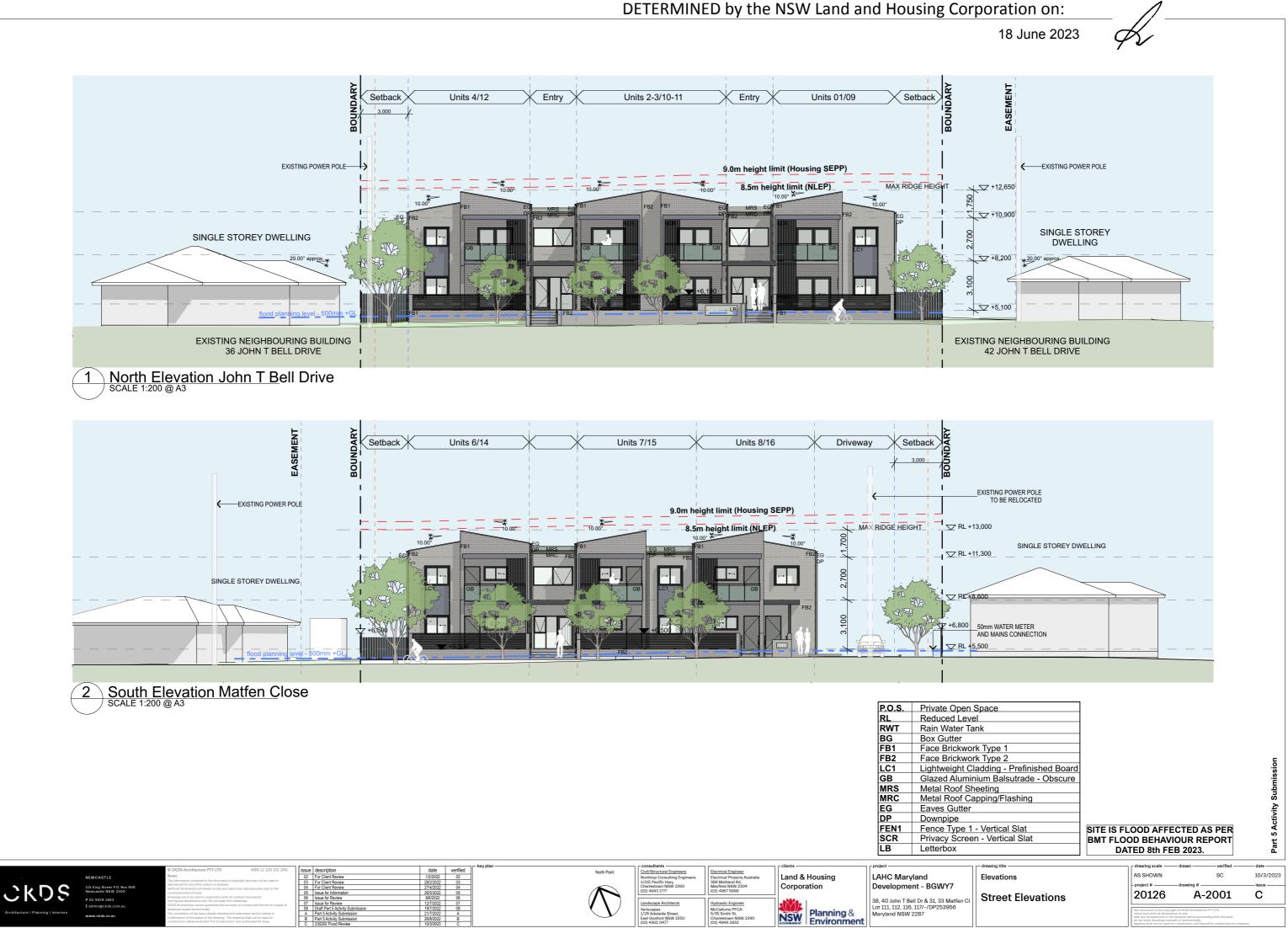
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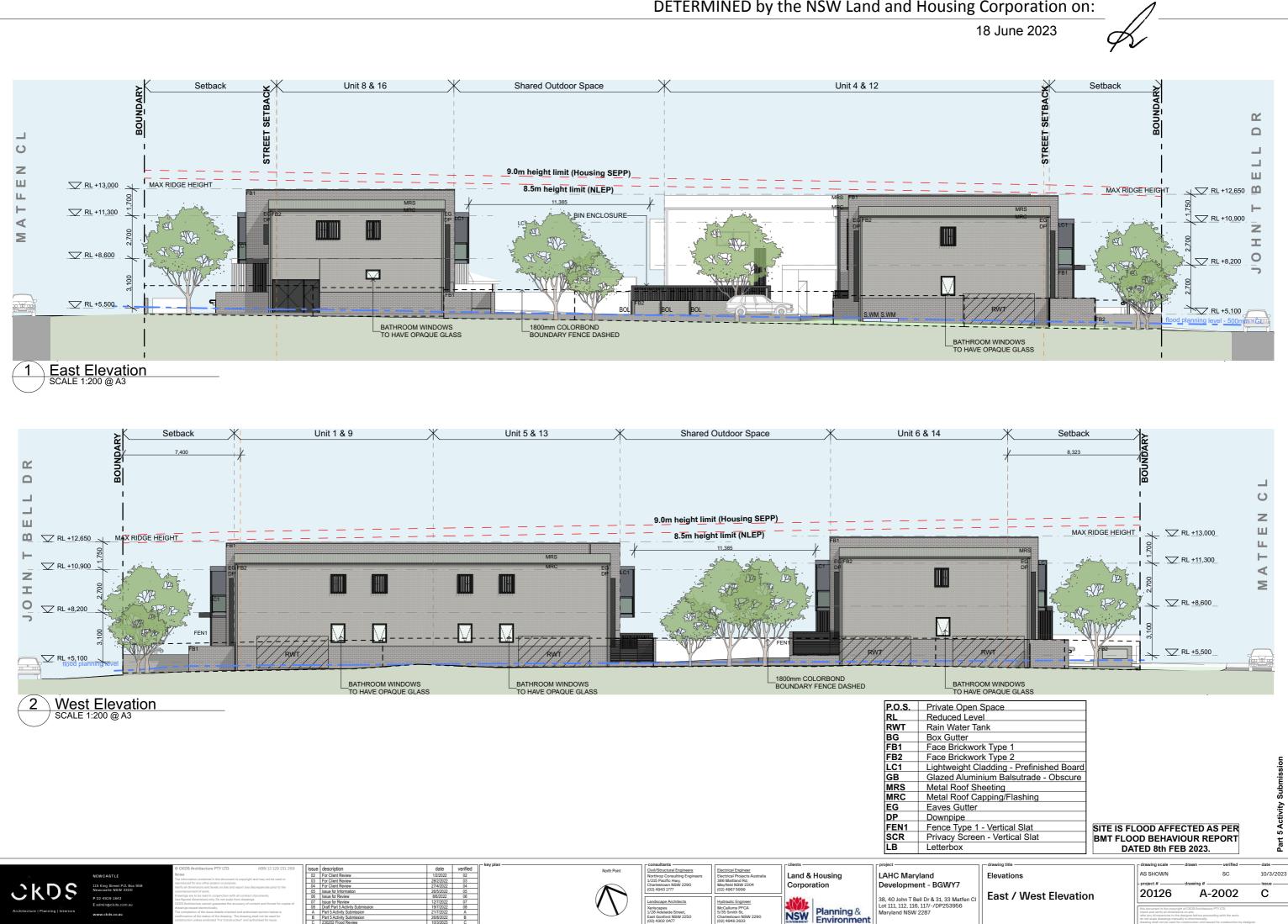
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Roof Plan - North

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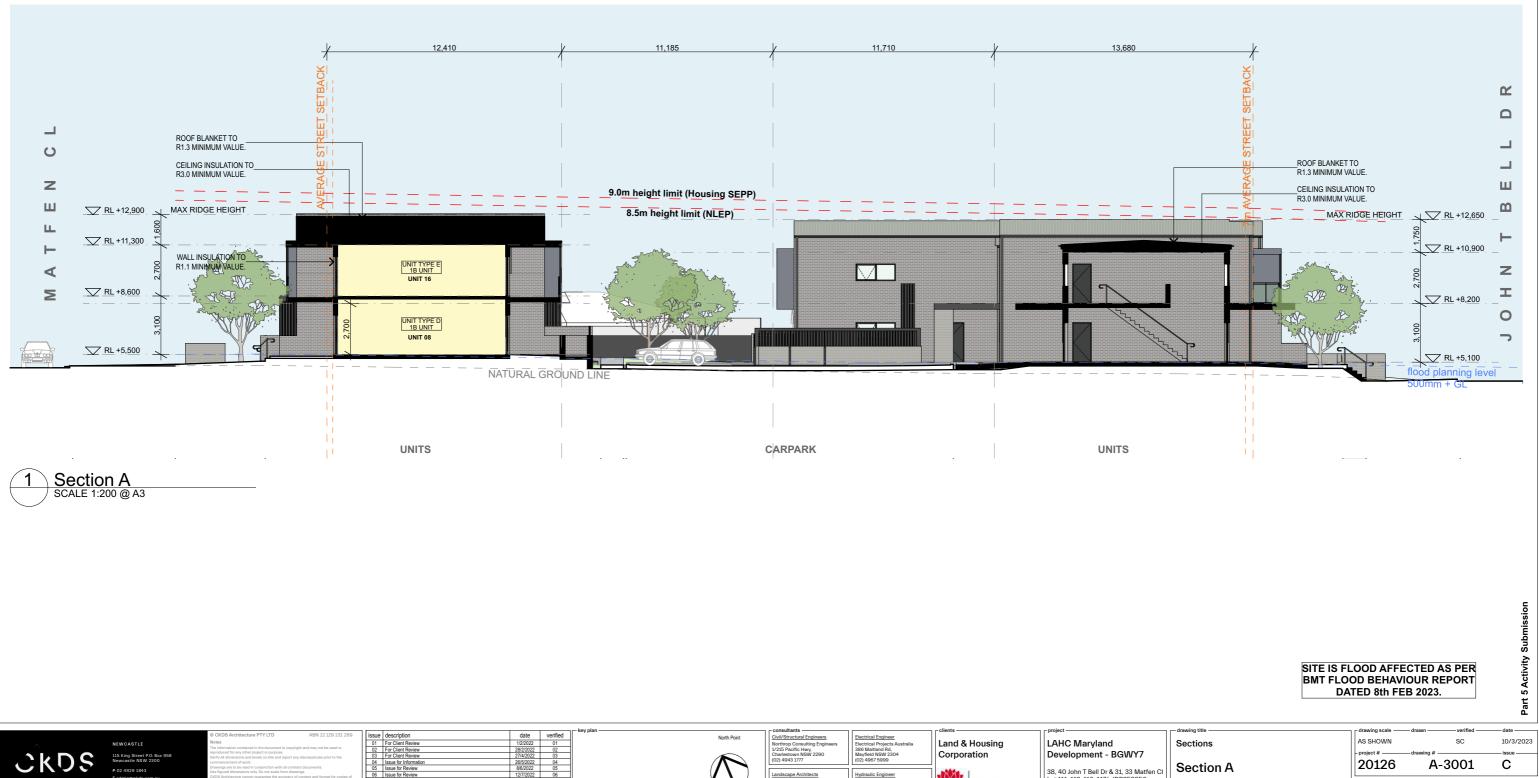
General Arrangement Plan(s)







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Hydraulic Engineer McCallums PFCA 5/35 Smith St, Charlestown NSW

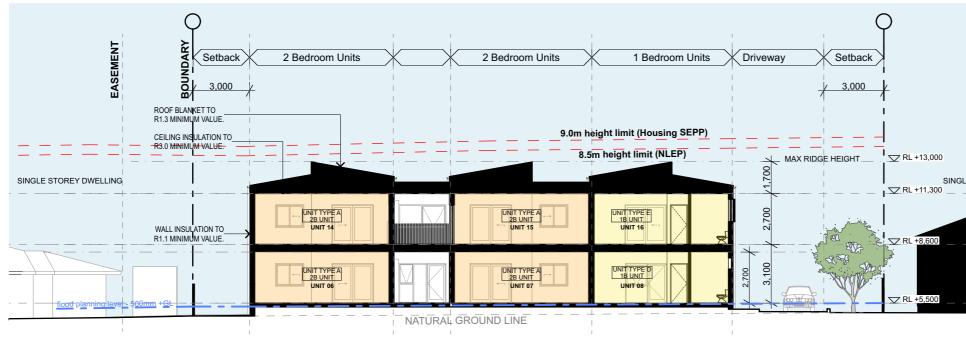
NSW Planning & Environment

38, 40 John T Bell Dr & 31, 33 Matfen C Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287

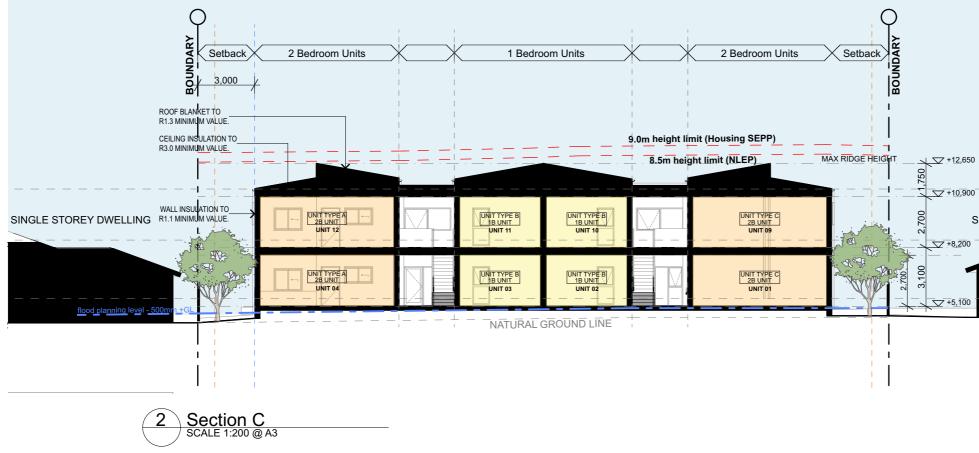
Section A



DETERMINED by the NSW Land and Housing Corporation on:

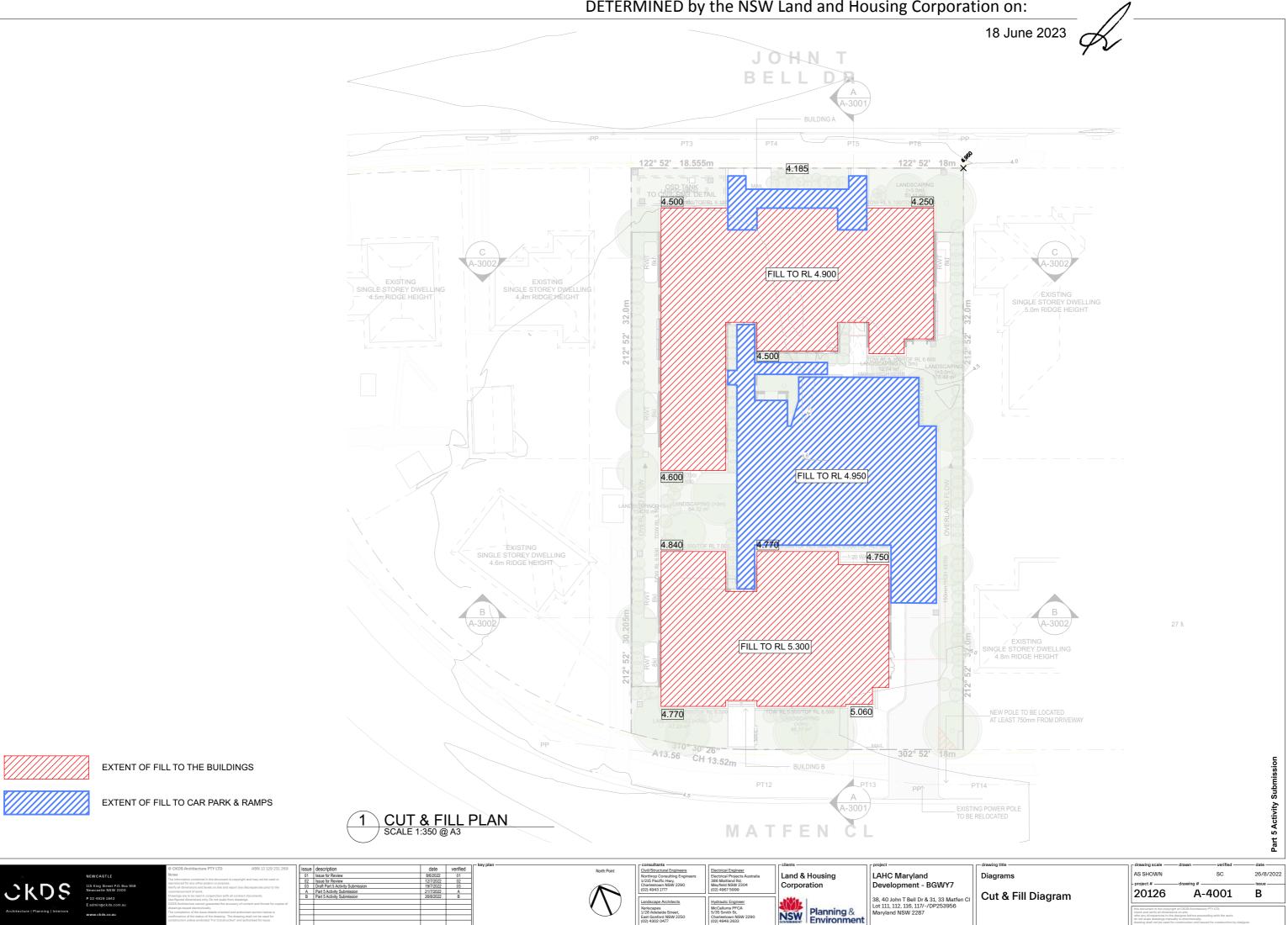






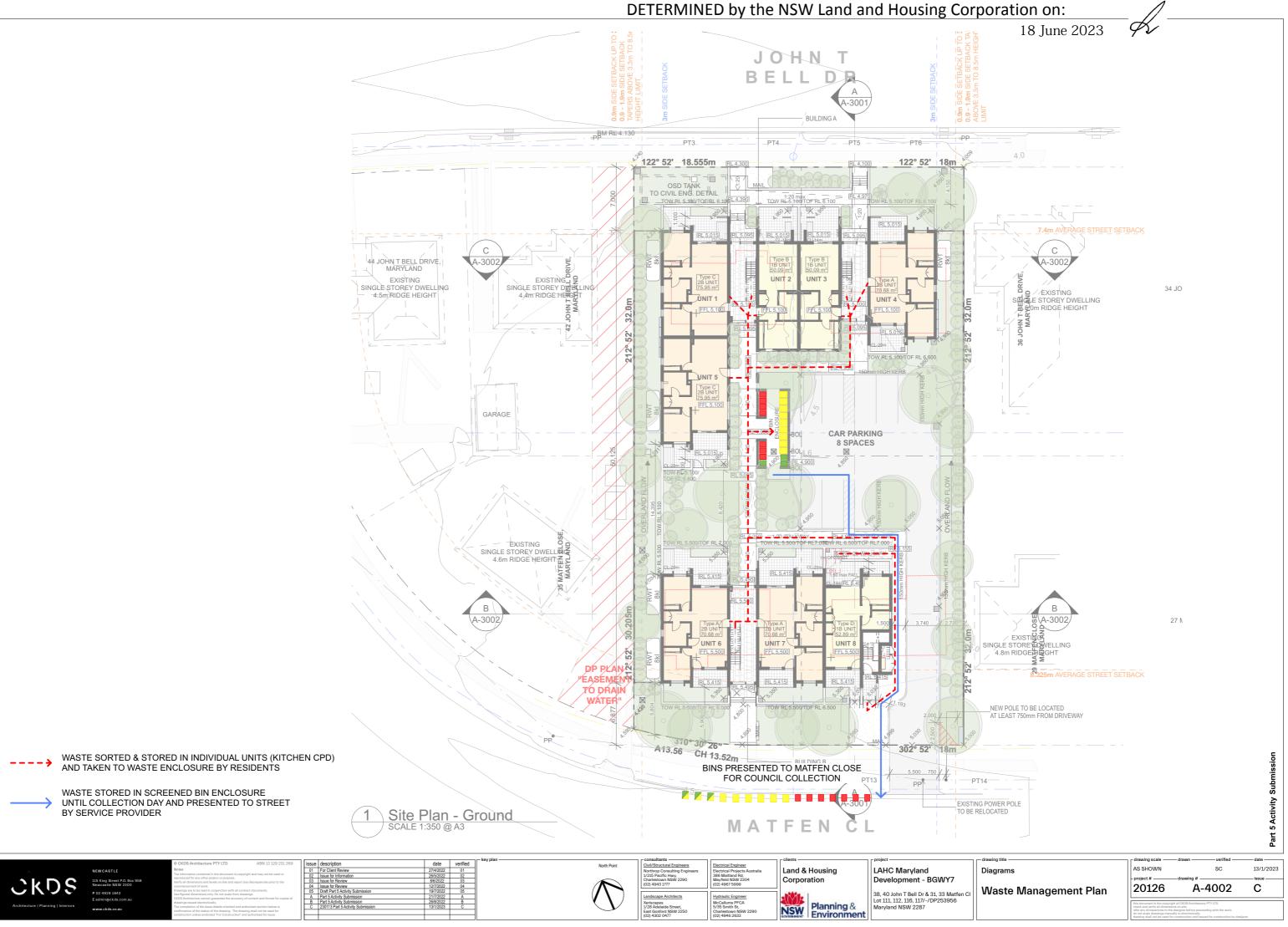
							- key plan	- consultants			
		© CKDS Architecture PTY LTD ABN 12 129 231 269	issue	description	date	verified	North Point	Civil/Structural Engineers	Electrical Engineer	- cilenta	project
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	Newcastle NSW 2300	commencement of work.		Part 5 Activity Submission	21/7/2022	A		(02) 4943 1777	(U2) 4967 5999		
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Architecture Planning Interiors	www.ckds.co.au	The completion of the issue details checked and authorised section below is					$\setminus V$	1/28 Adelaide Street,	5/35 Smith St,	NSW Planning &	Maryland NSW 2287
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269	issue	description	date
	01	Issue for Review	8/6/2022
	02	Issue for Review	12/7/2022
	03	Draft Part 5 Activity Submission	19/7/2022
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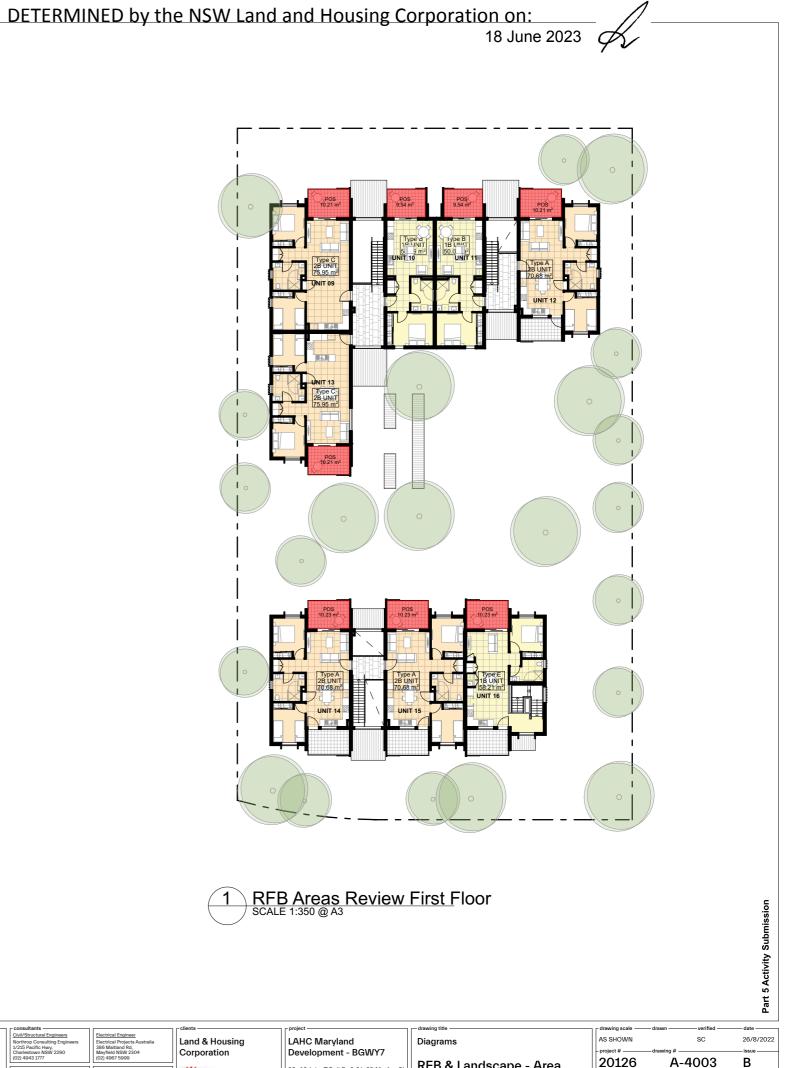












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03	For Client Review	28/2/2022	03
04	For Client Review	3/3/2022	04
05	For Client Review	27/4/2022	05
06	Issue for Information	26/5/2022	06
07	Issue for Review	8/6/2022	07
08	Issue for Review	12/7/2022	08
09	Draft Part 5 Activity Submission	19/7/2022	09
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В	Part 5 Activity Submission	26/8/2022	В

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Consultants <u>Civil/Structural Engineers</u> Northrop Consulting Engin 1/215 Pacific Hwy, Charlestown NSW 2290 (02) 4943 1777 Landscape Architects Xeriscapes 1/28 Adelaide Street, East Gosford NSW 225 (02) 4302 0477

sultants

Electrical Engineer Electrical Projects Au 386 Maitland Rd, Mayfield NSW 2304 (02) 4967 5999 Hydraulic Engineer McCallums PFCA 5/35 Smith St, Charlestown NSW 2 (02) 4946 2633

NSW Planning & Environment

38, 40 John T Bell Dr & 31, 33 Matfen C Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287

RFB & Landscape - Area

DETERMINED by the NSW Land and Housing Corporation on:





Part 5 Activity Submission

26/8/2022 SC A-5001 В













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Information	26/5/2022	06
Review	8/6/2022	07
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Electrical Engineer Electrical Projects Au 386 Maitland Rd, Mayfield NSW 2304 (02) 4967 5999 Land & Housing Hydraulic Engineer McCallums PFCA 5/35 Smith St, Charlestown NSW 2 (02) 4946 2633



LAHC Maryland Development - BGWY7 38, 40 John T Bell Dr & 31, 33 Matfen C Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287

18 June 2023

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Unit 6, 7, 14, 15 Shadows - 9am June 22

Unit 6, 7, 14, 15 Shadows - 12pm June 22

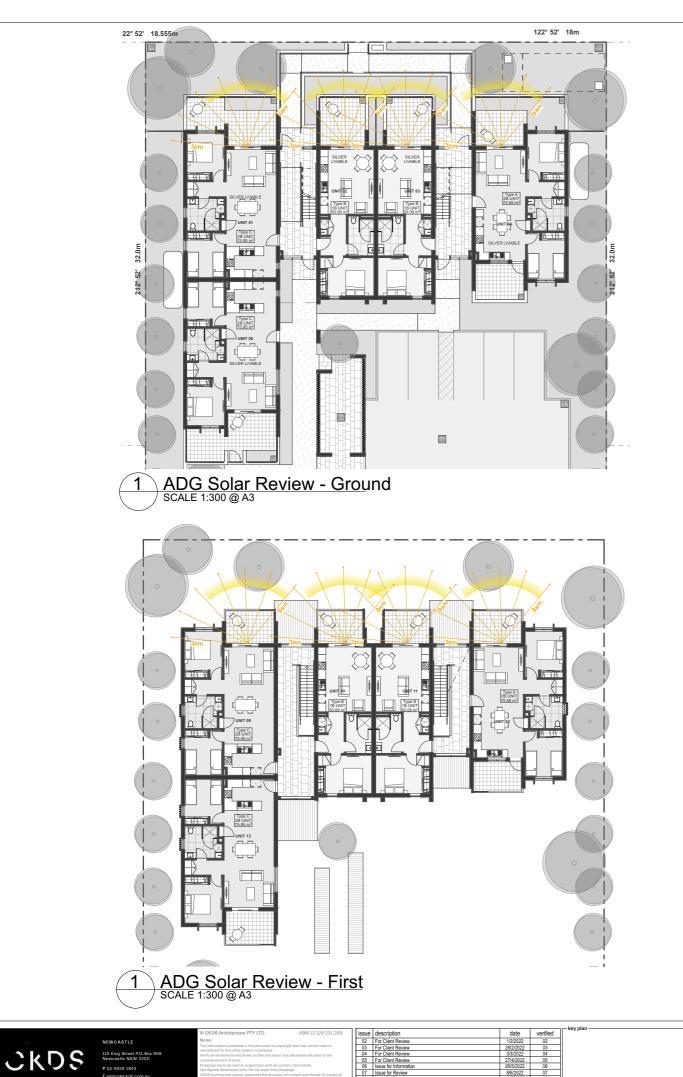
Solar Access (between 9am to 3pm 21st June)				
Unit Number	Living Room	Private Open Space		
01	Yes	Yes		
02	Yes	Yes		
03	Yes	Yes		
04	Yes	Yes		
05	No	No		
06	Yes	Yes		
07	Yes	Yes		
08	Yes	Yes		
09	Yes	Yes		
10	Yes	Yes		
11	Yes	Yes		
12	Yes	Yes		
13	No	No		
14	Yes	Yes		
15	Yes	Yes		
16	Yes	Yes		
Total	14 (87.5%)	14 (87.5%)		

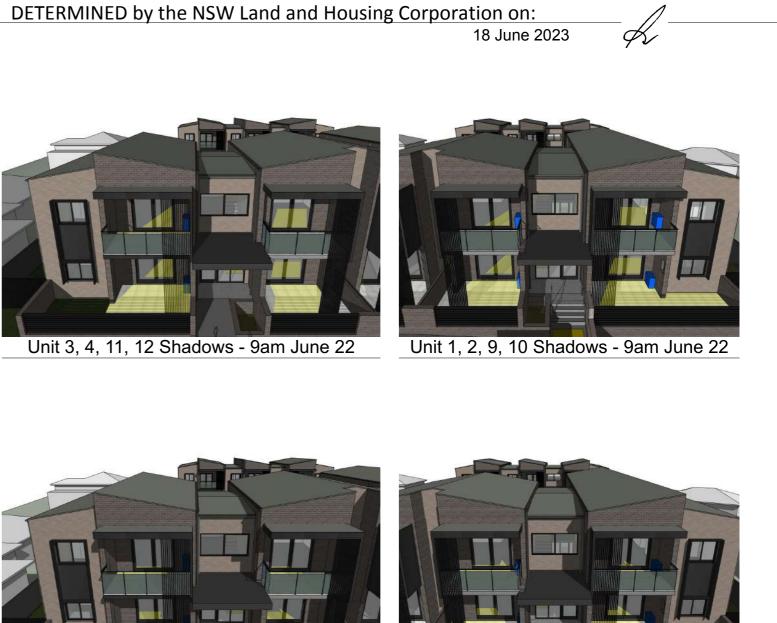
Shadow Diagrams

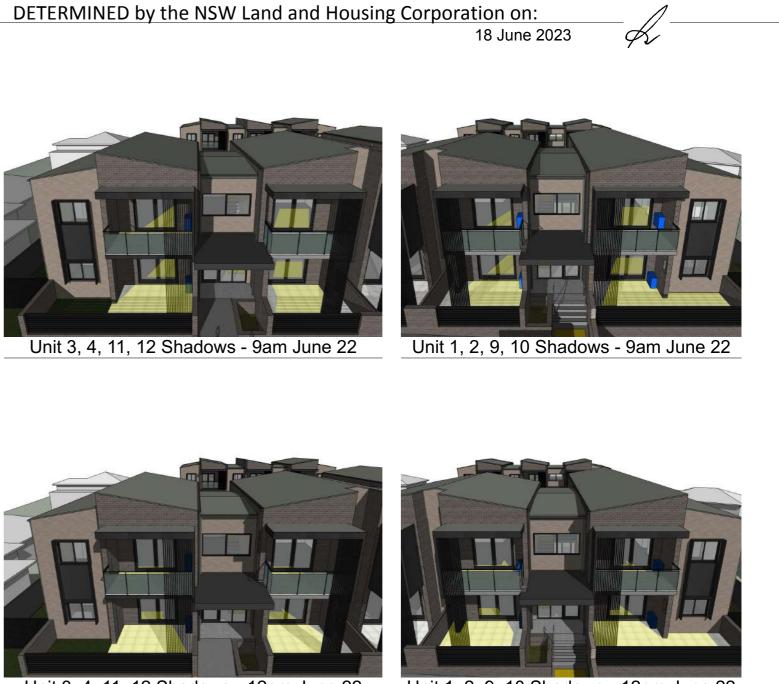
Solar - South

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Part 5 Activity Submission







Unit 3, 4, 11, 12 Shadows - 12pm June 22

ia	Land & Housing Corporation	
	NSW Planning & Environment	

Civil/Structural Engineers Northrop Consulting Engi 1/215 Pacific Hwy,

Landscape Architects Xeriscapes 1/28 Adelaide Street, East Gosford NSW 225 (02) 4302 0477

harlestown N)2) 4943 1777

Electrical Engineer

Electrical Projects A 386 Maitland Rd, Mayfield NSW 2304 (02) 4967 5999

Hydraulic Engineer McCallums PFCA 5/35 Smith St, Charlestown NSW

North Poin

LAHC Maryland Development - BGWY7



Unit 1, 2, 9, 10 Shadows - 12pm June 22

10 11 12	Yes Yes No Yes Yes	Yes Yes No Yes Yes
10 11 12 13	Yes Yes No	Yes Yes No
10 11 12	Yes Yes	Yes Yes
10 11		
10	res	163
	Yes	Yes
09	Yes	Yes
08	Yes	Yes
06 07	Yes	Yes
06	Yes	Yes
05	No	No
04	Yes	Yes
03	Yes	Yes
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L	03	For Client Review	2
L	04	For Client Review	2
L	05	Issue for Information	2
L	06	Issue for Review	8
L	07	Issue for Review	1
L	08	Draft Part 5 Activity Submission	1
L	A	Part 5 Activity Submission	2
1	В	Part 5 Activity Submission	2





Civil/Structural Engineer

Hydraulic Enginee McCallums PFCA 5/35 Smith St,

Electrical Engineer



LAHC Maryland Development - BGWY7

38, 40 John T Bell Dr & 31, 33 Matfen C Lot 111, 112, 116, 117/-/DP253956 Maryland NSW 2287

18 June 2023

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26/8/2022

В

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Materials

Schedule of Finishes

SC

A-6001

wing scale

AS SHOWN

20126

project # -





18 June 2023



Glazed Doors

Element ID	D01	D02	D03
Quantity	15	6	1
Height	2,100	2,100	2,100
Width	2,200	1,000	2,200

Glazed Windows

Element ID Quantity	W01 20	W02 8	W03 13	W05	W06 6	W07 6	W08	W09
Height Width	1,200 1,500	900 1,500	1,200 900	900 2,100	2,100 1,500	1,200 2,500	2,000 900	600 900



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Issue for Information	26/5/2022	01
Issue for Review	12/7/2022	02
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Part 5 Activity Submission	26/8/2022	В

North Point







LAHC Maryland Development - BGWY7

18 June 2023

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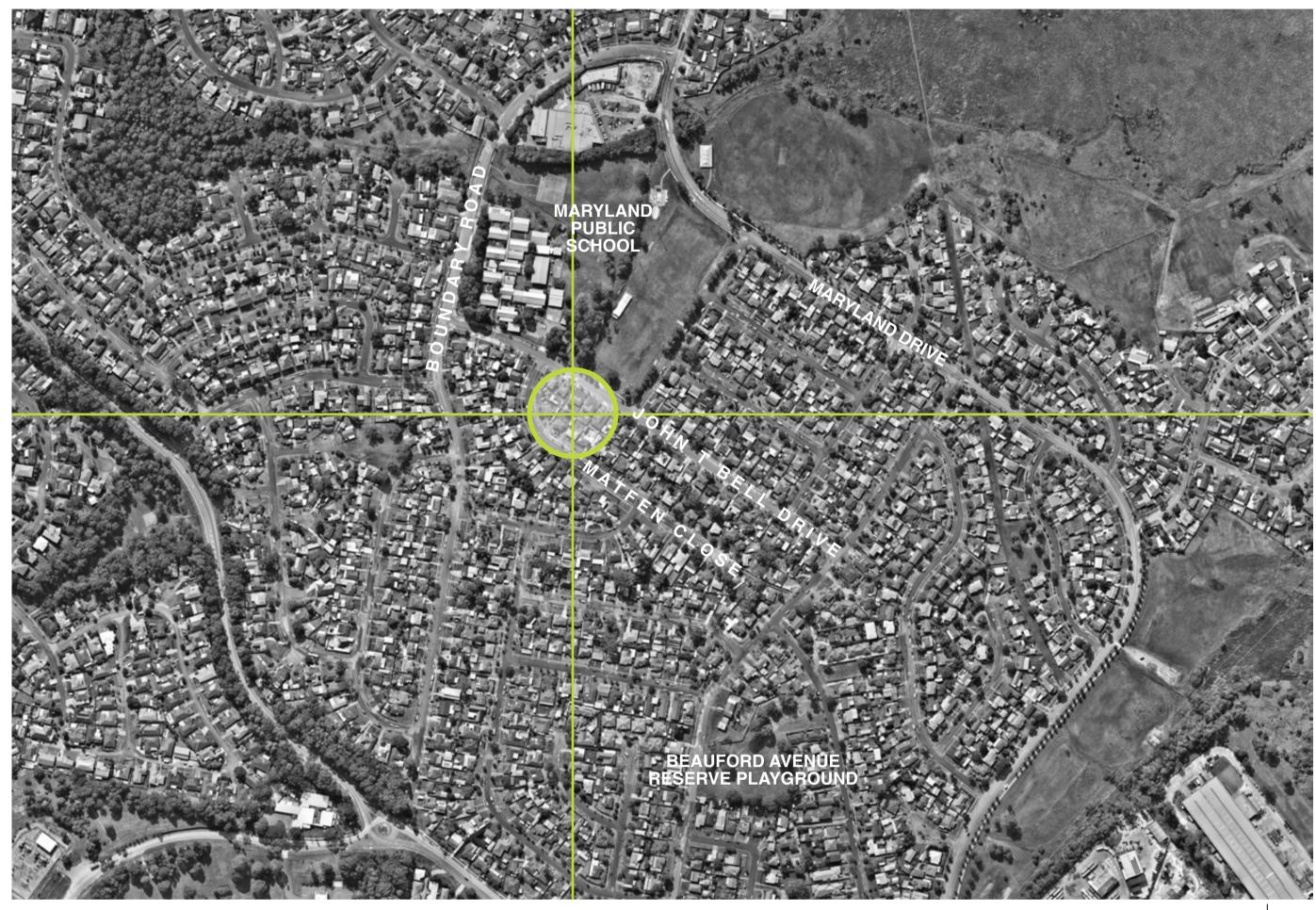
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Window Schedule

AS SHOWN	SC	26/8/2022
20126	drawing # A-7001	B
this document is the copyright o check and verify all dimensions refer any dicrepancies to the desido not scale drawings manually	on site. signer before proceeding with the work.	

LAHC MARYLAND DEVELOPMENT

SEPTEMBER 2022



LOCATION MAP

Drawing Schedule

Name	Drawing Number	Revision
Cover Sheet	DA-L000	E
Landscape Plan	DA-L101	E
Precedent Images	DA-L201	D
Indicative Plant Schedule	DA-L301	D

Item	Area	Percentage
Total Site	2310 m ²	
Ground Floor Building Footprint Total Hard Landscaping Total Soft Landscaping	815 m² 780 m² 715 m²	44 %
Deep Soil Planting Zones	560 m²	35%

Statutory & Regulatory Guidelines

CITY OF NEWCASTLE

Newcastle Local Environmental Plan (LEP) 2012

Newcastle Development Control Plan (DCP) 2012



PROJECT

LAHC MARYLAND DEVELOPMENT 38-40 JOHN T BELL DRIVE, MARYLAND NSW 2287

DESIGN REPORT

Site Description:

The subject site is located at 38-40 John T Bell Drive, Maryland, NSW 2287. The site is located and zoned as R2 Low Density Residential. The existing topography of the site is relatively flat site with a cross fall from the approximate high point RL 5.13 located on the south corner to the approximate low point RL 4.00 located in the north-east corner. As a result, the proposed site has an overall crossfall of 1.8%. Within the proposed development boundary there are four existing dwellings consisting of two single storey brick dwellings and two weatherboard dwellings. Each dwelling includes a single driveway access with no existing front boundary fences. The existing dwellings and driveway crossovers are to be demolished. Within the site there are large turf landscaped areas with minimal planting. The planting consists of small to medium size native and exotic shrubs that provide no wildlife or aesthetic importance to the site or surrounding context. The shrubs will be removed as part of the proposed development. Local Context/Character: The existing street character of John T Bell Drive and Matfen Close is predominately residential single story dwellings with established and maintained landscaped gardens with no front boundary fences. The street frontages consists of turfed verges and small to large shrubs, feature planting and hedges consisting of a mix of native and exotic species. There are medium established street trees along John T Bell Drive including native and exotic species contributing to the street character and visual amenity. There a very few

established street tree plantings along Matfen Close which hold minimal street character value. There is existing kerb and gutter along John T Bell Drive and Matfen Close with cars

utilising the on street kerb side parking. A turf verge and pedestrian footpath is located along John T Bell Drive and Maften Close that is to be retained as part of the development. The only apparent infrastructure along John T Bell Drive and Maften Close near the subject site are overhead powerlines.

The subject site is located in close proximity to Maryland Shopping Centre, Maryland Early Education Centre and Maryland Public School. Grand Avenue Reserve and sporting fields are located adjacent to John T Ball Drive.

Proposed Development:

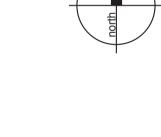
The proposed development will include 5 residential units and include designated bin enclosure and an 8 space carpark to accommodate residents without causing congestion to John T Bell Drive and Matfen Close. There are private terrace space and vegetation to create privacy for all residents associated with this development and are as follows:

Private Open Space:

Private open space terrace and courtyard areas have been provided for each of the units on site and are in accordance with the minimum area requirements with Council's DCP & NSW Planning & Environment; Apartment Design Guide.

The landscape intent for these private open space terrace areas will include the following: • Private terrace or courtyard areas for the each of the dwellings that can be used for outdoor entertaining,

- Suitable screening shrubs between courtyard areas of each unit for privacy,
- Landscape buffer zone between the private open space terrace areas and any common open space areas for privacy
- Acoustic fencing to create privacy



DRAWING NAME COVER SHEET

Public domain works with this residential flat building development will include street improvement works to John T Bell Drive and Matfen Close.

These public domain improvement works will include the following: • New in situ concrete footpaths to Council standards • New tree planting & verge planting to Council standards

Location of all verge plantings will be in respect to street amenity, existing/proposed services, infrastructure and on street car parking.

The planting design strategy for this residential flat building development to include the following:

• Tree planting within appropriate deep soil zones to reduce bulk & scale of the development

• Evergreen tree planting to provide shade & amenity

• A broad planting palette to include a variety native species & exotic species to provide colour, texture, aroma & form

• Implementation of some endemic indigenous species to encourage canopy corridor links and biodiversity

With the proposed landscape design for this development we would implement the following safety planting initiatives:

• Avoid planting species close to paths and hard paved areas that are known for excessive flower and foliage drop that may cause potential slip hazards

• Avoid planting species that are known for invasive root structure that may cause damage to existing infrastructure and damage paths & hard paved areas, which may cause potential trip hazards

• Avoid planting species that are known to be toxic or may cause respiratory, allergy and/ or skin irritations

Shrub species, sizing & locations are to ensure that passive surveillance is maintained at building, carpark & driveway entries path and all plantings are to be layered to with smaller groundcovers and shrubs adjacent to paths and buildings in accordance with Crime Prevention Through Environmental Design (CPTED) principles.

All proposed plant species selection has been considered in terms of soil types, species hardiness and on-going watering maintenance requirements. Predominantly low water use species (both native & exotic) have been grouped in regard to watering requirements and to reduce reliance on use of potable water.



Public Domain Areas:

Planting Design Strategy:

• Avoid planting tree species that are prone to potential limb drop





P: 02 4302 0477 • ABN 12 129 231 269

PROJECT



DRAWING NAME LANDSCAPE PLAN



	CLIENT	LAHC		REVISION	Е
K	PROJECT NO	20129		DATE	03.09.2022
	DRAWING NO	DA-L101			
X	SCALE	1:100 @ A1	0 1 2	3 4 5m	





PROJECT LAHC MARYLAND DEVELOPMENT 38-40 JOHN T BELL DRIVE, MARYLAND NSW 2287

DRAWING NAME PRECEDENT IMAGES



CLIENT LAHC **PROJECT NO** 20129 DRAWING NO DA-L201 SCALE NA

REVISION D **DATE** 22.07.2022

Image	Botanical Name	Common Name		Mature Spread		Comments	Soil Types *
Street ⁻	Trees						
01	Backhousia citriodora	Lemon Myrtle	5-10	2-5	75L	Stakes and ties	SCL
02	Callistemon salignus**	Weeping Paperbark Tree	6	6	45L		
03	Callistemon viminalis**	Weeping Bottlebrush	5	5	45L		
	Cupaniopsis anacardioides**	Tuckeroo	8	7	75L	Stakes and ties	SCL
04	Waterhousia floribunda 'Sweeper'**	Weeping Lilly Pilly	10	7	75L	Stakes and ties	SL
Shade	Amentity Trees						
	Backhousia citriodora**	Lemon Myrtle	5-10	2-5	75L	Stakes and ties	SCL
05	Corymbia ficifolia 'Orange Splendour'	Dwarf Flowering Gum	6	4-6	45L	Stakes and ties	SL
06	Elaeocarpus reticulatus**	Blueberry Ash	10	5-8	45L	Stakes and ties	
07	Tristaniopsis 'Luscious'	Luscious Water Gum	8	5	75L	Stakes and ties	SL
Tall Sci	reen Shrubs > 1.5m						
08	Callistemon linearis**	Narrow-leaved Bottlebrush	3	3	300mm		SCL
	Grevillea 'Honey Gem'	Spider Flower Grevillea	4	3	300mm		SCL
00	Leucospermum cordifolium		0		000		
09	'Scarlet Ribbon'	Scarlet Ribbon	2	1.5	300mm		LS
10	Syzigium australe 'Straight & Narrow'	Narrow Lilly Pilly	5-8	1-1.5	300mm		SCL
11	Viburnum odoratissimum	Dense Fence	2.5	2	300mm		SCL
Shrubs	s < 1.5m						
	Callistemon 'Better John'	Better John Bottlebrush	1.2	0.9	200mm		SCL
	Grevillea 'Crimson Villa'	Crimson Villa	0.7	0.7	200mm		SCL
12	Raphiolepis indica 'Ápple Blossom'	Apple Blossom Hawthorn	1	1	200mm		SCL
13	Westringia fruiticosa 'Zena'	Westringia 'Zena'	1.2	1.2	200mm		SCL
Mass P	Planted Groundcovers						
14	Alternanthera dentata 'Little Ruby'	Littly Ruby	0.5	0.5	140mm		SCL
15	Convolvulus cneorum	Silver Bush	0.5	1	140mm		SCL
	Dianella caerulea 'Little Jess'	Little Jess Flax Lily	0.4	0.4	140mm		
16	Dichondra repens	Kidney Weed	0.1	1.5	140mm		
17	Liriope muscari 'Isabella'	Isabella Fine Leaf Liriope	0.4	0.5	140mm		
	Myoporum parvifolum Ýareena'	Yareena Creeping Boobialla	0.1	1	140mm		
18	Neomarica gracilis	Walking Iris	0.5	0.5	140mm		
10	Poa labillardieri 'Kingsdale'	Blue Tussock Grass	0.45	0.45	140mm		
19	Westringia 'Mundi'	Westringia 'Mundi'	0.6	1.5	140mm		
	order Planting						
20	Carex albula 'Frosted Curls'	New Zealand Hair Sedge	0.6	0.6	140mm		
21	Chrysocephalum apiculatum 'Desert Flame'	Yellow Buttons	0.5	0.3	140mm		
22	Lomandra labill	Evergreen Baby	0.45	0.45	140mm		
	Stachys byzantina	Lambs Ears	0.5	0.5	140mm		
Shade	Tolerant Planting						
23	Asplenium australasicum	Birds Nest Fern	1	1	140mm		
	Blechnum nudum	Fishbone Water Fern	0.7	0.5	140mm		
	Macrozamia communis	Burrawang	1	1.5	140mm		
24	Philodendron 'Xanadu'	Xanadu Dwarf Philodendron	0.8	0.8	140mm		
	Pteris tremula	Tender Brake	1	0.8	140mm		
	Dianella caerulea 'Little Jess'	Little Jess Flax Lily	0.4	0.4	140mm		
	Doodia aspera	Rasp Fern	0.2	0.4	140mm		
	Aspidistra elatior Viola hederacea	Cast Iron Plant Native Violet	0.7 0.1	0.5 0.3	140mm 140mm		
			0.1	0.0			
Climbe		Kongeree Mine	C		1 10		
25	Cissus antartica Pandoroa iasminoidos	Kangaroo Vine Bower of Beauty	6 5		140mm		
	Pandorea jasminoides Pyrostogia vopusta	Bower of Beauty Orange Trumpet Vine	5		140mm		
	Pyrostegia venusta	Orange Trumpet Vine	10		140mm		
*Soil T	(000						

*Soil Types

(S) Sandy, (C) Clay, (L) Loamy Soils

**Species Selection:

As per suggested species list on the Ornamental Native Tree Species suitable for growing in the Cumberland City Council Local Government Area (LGA) report



P: 02 4302 0477 • ABN 12 129 231 269

PROJECT

LAHC MARYLAND DEVELOPMENT 38-40 JOHN T BELL DRIVE, MARYLAND NSW 2287



DRAWING NAME INDICATIVE PLANT SCHEDULE



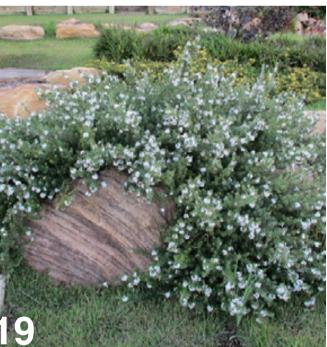
PV 18 June 2023

DETERMINED by the NSW Land and Housing Corporation on:





















CLIENT LAHC **PROJECT NO** 20129 DRAWING NO DA-L301 SCALE NA

LAHC MARYLAND 38 - 40 JOHN T BELL DRIVE MARYLAND, NSW **CIVIL DA PACKAGE**



LOCALITY PLAN

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Architecture Planning	
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IORTHROP CONSUL	

IMAGE SOURCE : GOOGLE EARTH

DRAWING LIST

DWG No.	DRAWING TITLE
DA.C01	COVER SHEET, DRAWING INDEX AND LOCALITY PLAN
DA.C02	EROSION AND SEDIMENT CONTROL PLAN
DA.C03	EROSION AND SEDIMENT CONTROL DETAILS
DA.C04	CIVIL STORMWATER AND LEVELS PLAN
DA.C05	CIVIL STORMWATER PHILOSOPHY AND DETAILS



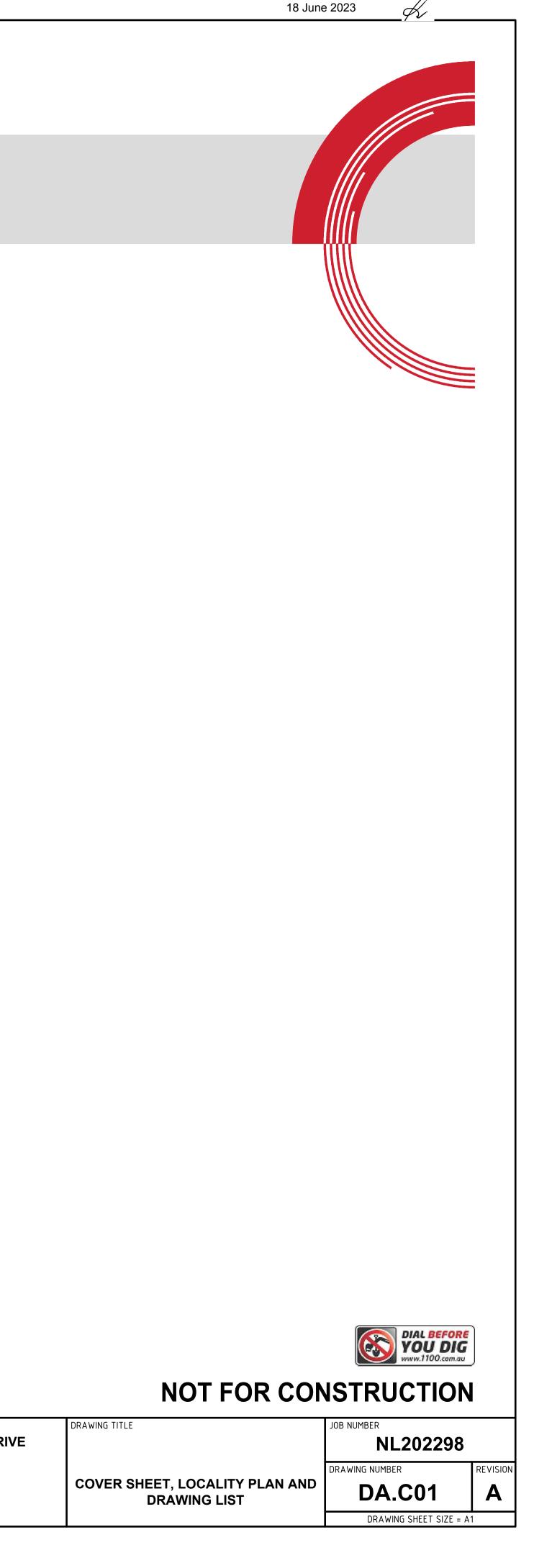
LL DIMENSIONS TO BE VERIFIED ON SITE BEFORE ommencing work. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS RANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

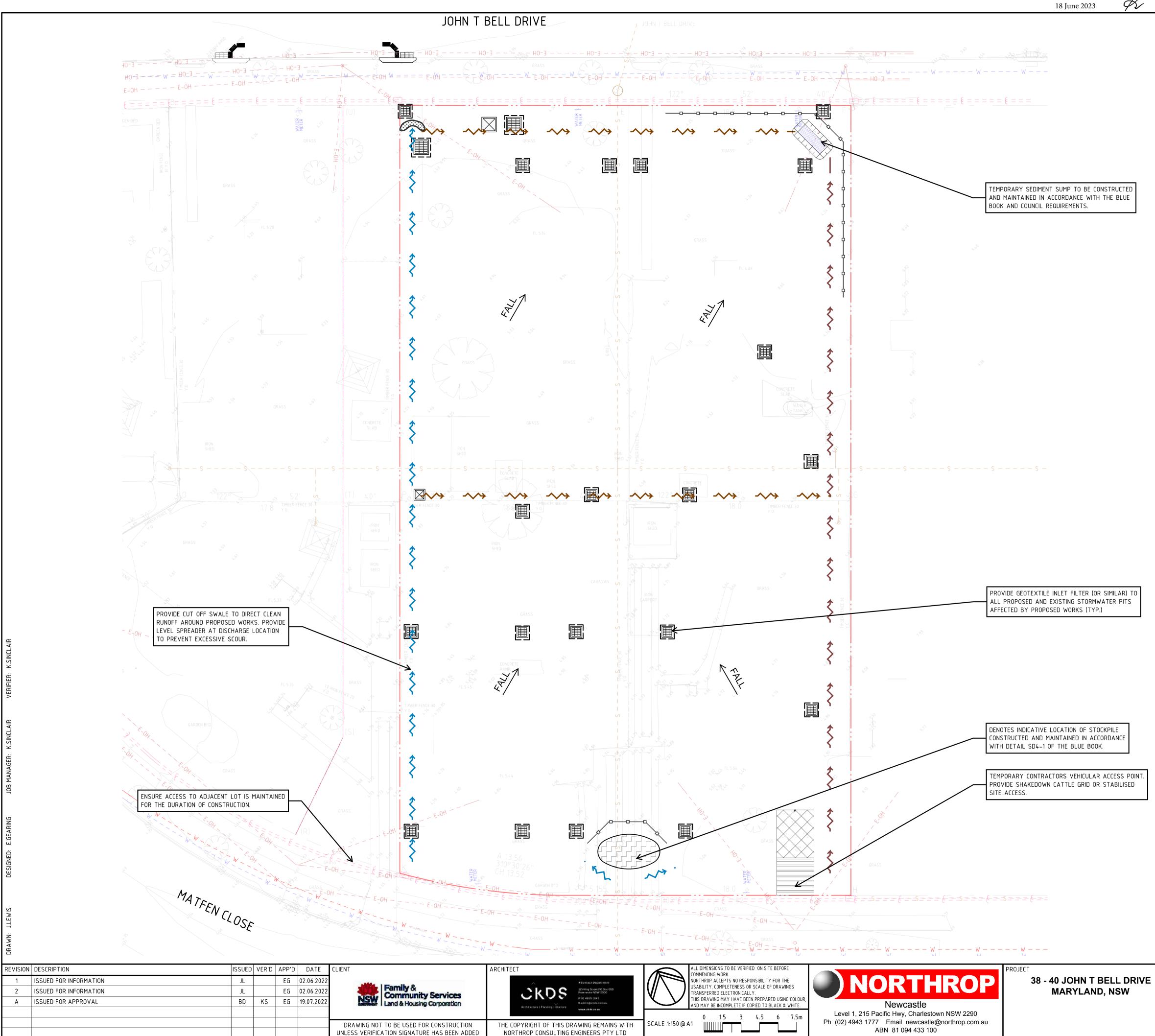


ABN 81 094 433 100

38 - 40 JOHN T BELL DRIVE MARYLAND, NSW

PROJECT

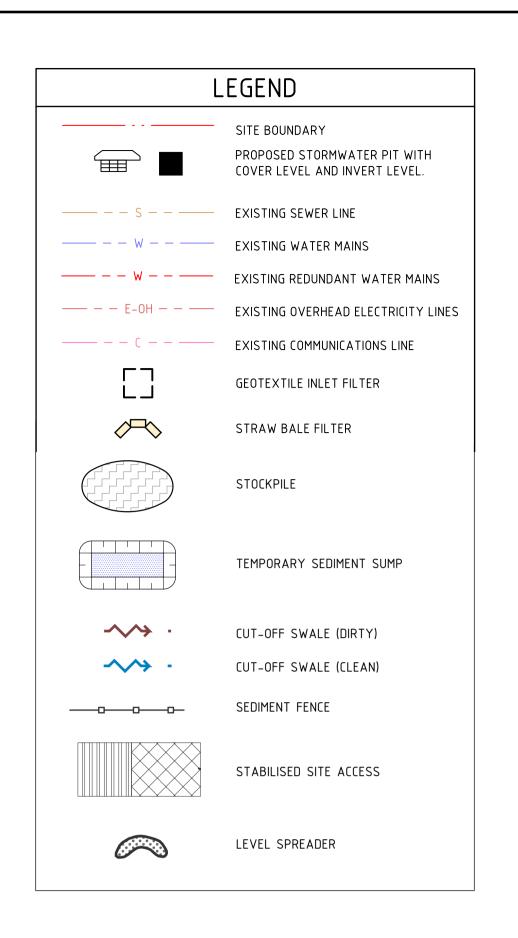




Plotted By : EMMA GEARING

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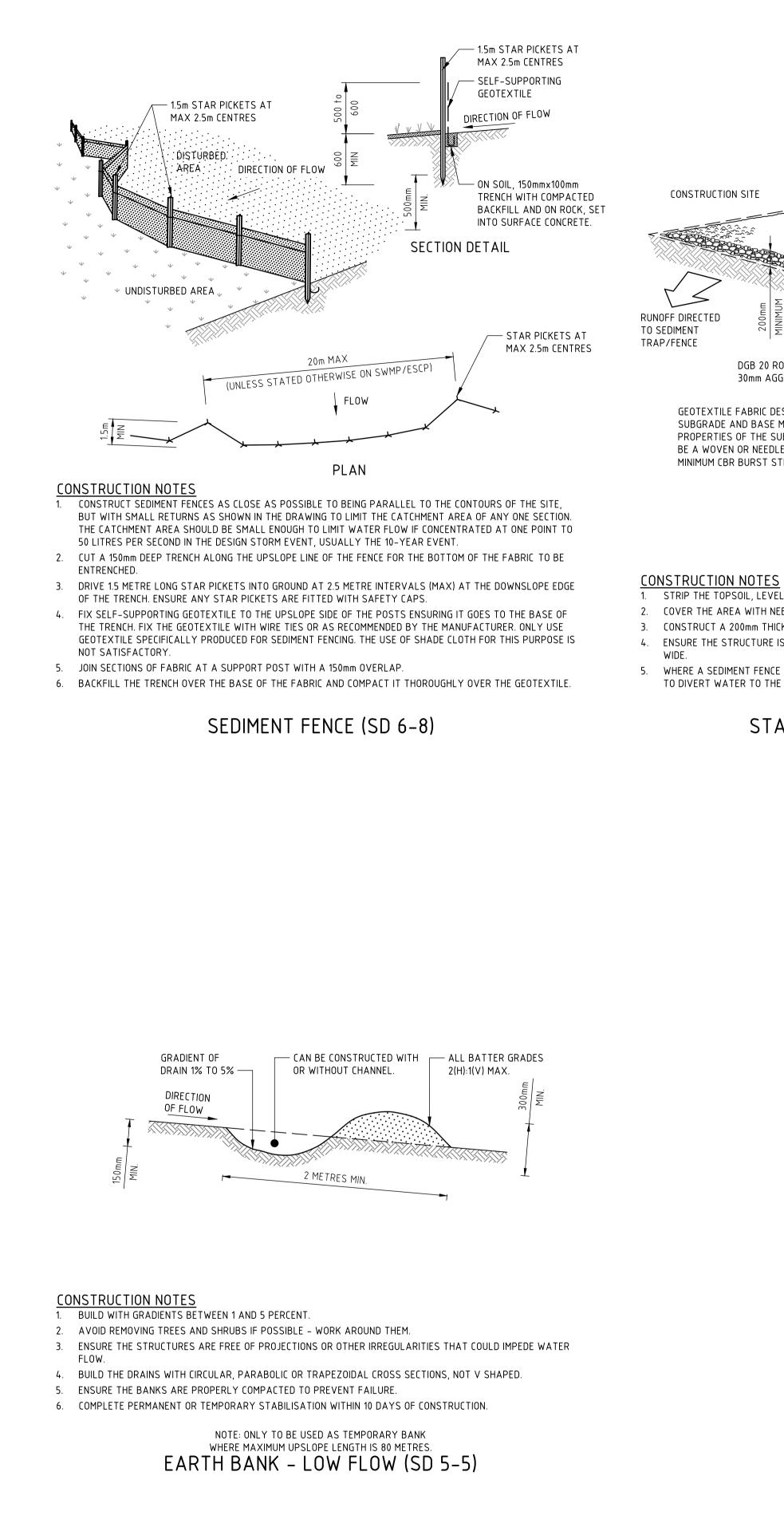


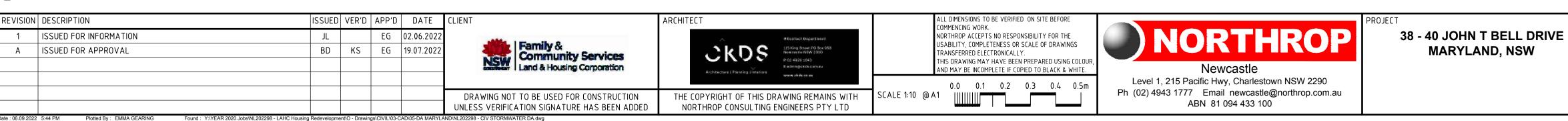
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EROSION AND SEDIMENT CONTROL PLAN

DRAWING TITLE

JOB NUMBER
NL202298
DRAWING NUMBER
DA.C02
DRAWING SHEET SIZE = A1





- 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE. 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.

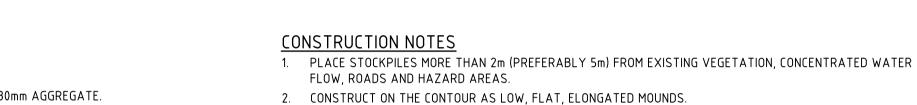
- CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
- 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES
- 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.



DGB 20 ROADBASE OR

30mm AGGREGATE —



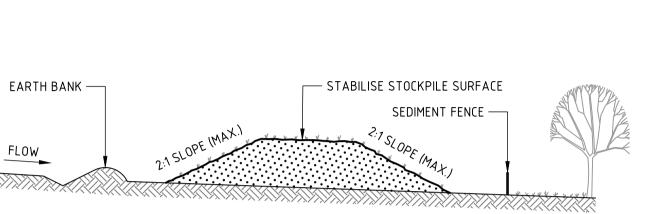


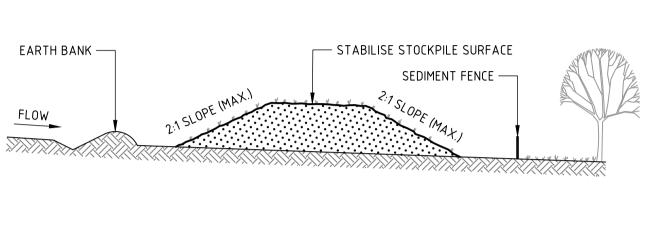
- FLOW, ROADS AND HAZARD AREAS. 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 - 3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT. 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP
 - OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. 5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5–5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

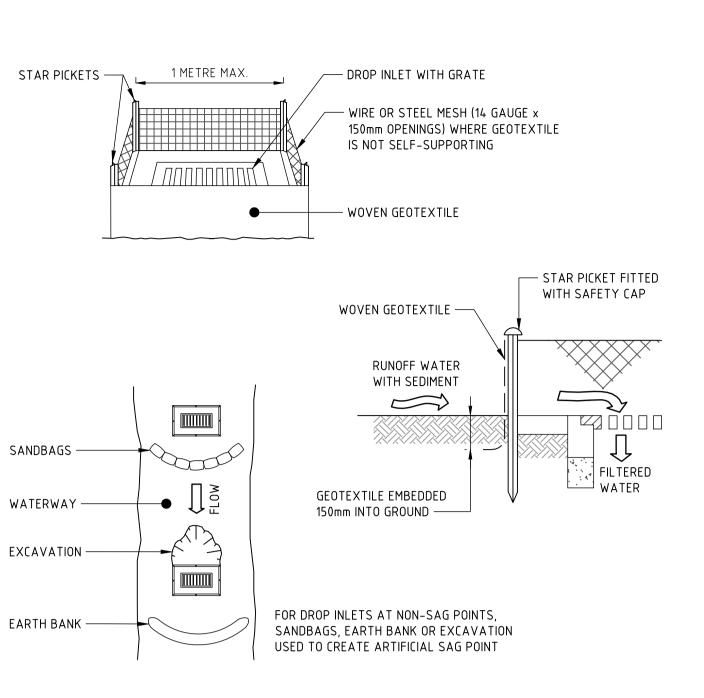
STOCKPILES (SD 4-1)

STABILISED SITE ACCESS (SD 6–14)

MINIMUM WIDTH 3m MINIMUM LENGTH 15 PROPERTY BOUNDARY A STATE OF THE ASSOCIATION OF TH EXISTING GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF ROADWAY -SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4–90) OF 2500 N ——







- CONSTRUCTION NOTES
- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES. 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6–12)



NOT FOR CONSTRUCTION

JOB NUMBER

DRAWING NUMBER

EROSION AND SEDIMENT CONTROL DETAILS

DRAWING TITLE

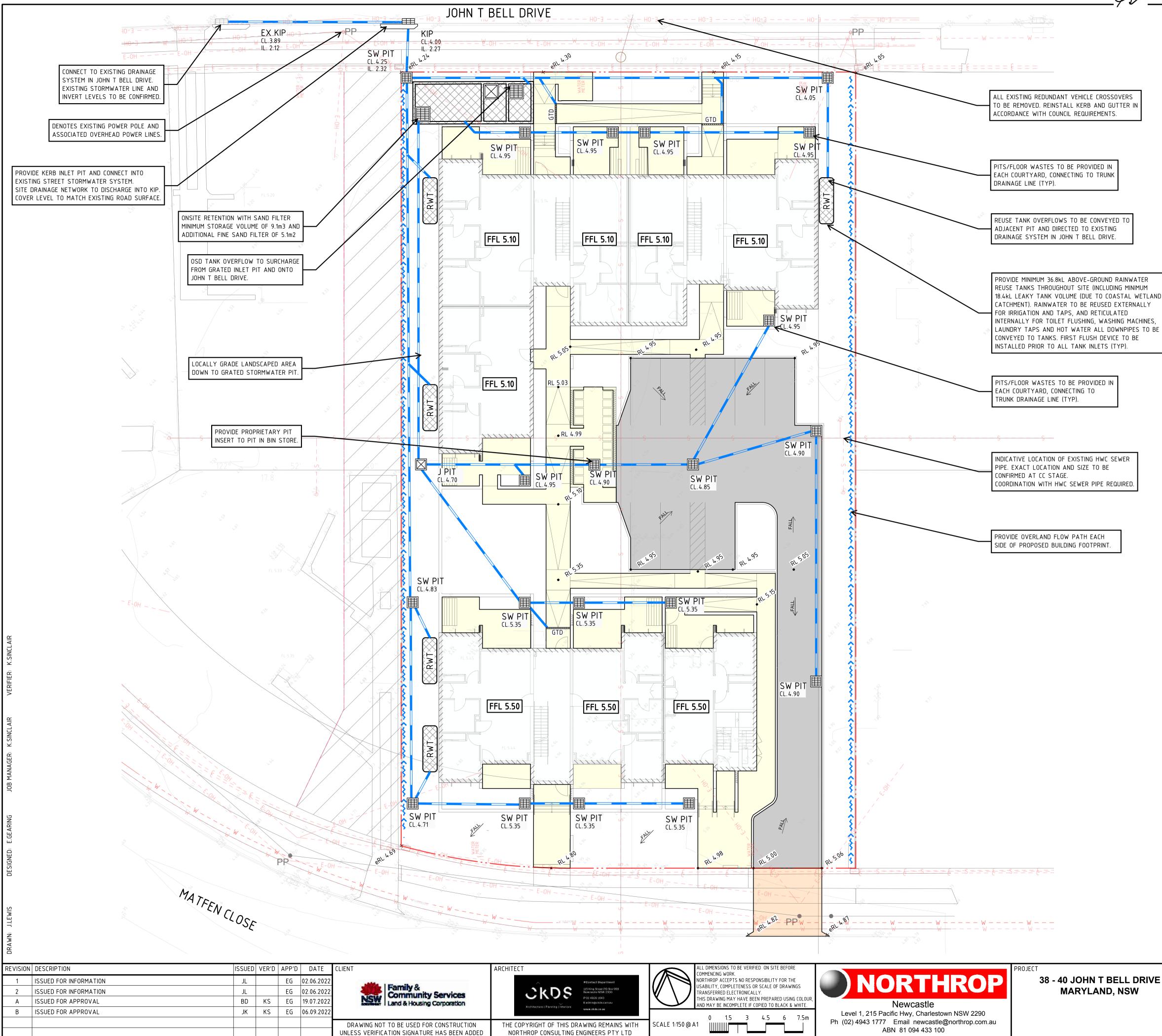
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DA.C03

NL202298

REVISION

Α



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Plotted By : EMMA GEARIN

18 June 2023 DETERMINED by the NSW Land and Housing Corporation on:

	DRAWING TITLE
VE	

CIVIL STORMWATER AND

LEVELS PLAN

OB NUMBER



NL202298

DRAWING SHEET SIZE = A1

REVISION

Β

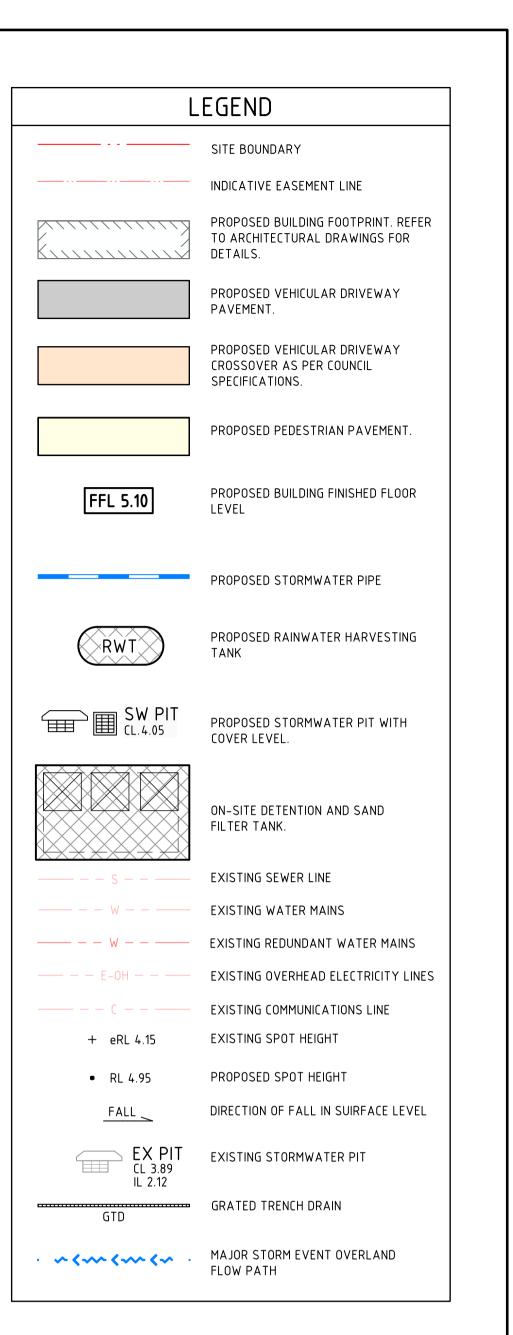
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DA.C04



DRAWING NUMBER



CONCEPT STORMWATER MANAGEMENT SUMMARY

LGA: CITY OF NEWCASTLE (CN)

NORTHROP CONSULTING ENGINEERS HAVE PREPARED A CONCEPT STORMWATER DRAINAGE DESIGN FOR THE PROPOSED DEVELOPMENT AT 38-40 JOHN T BELL DRIVE AND 31-33 MATFEN CLOSE, MARYLAND. THE PROPOSED MANAGEMENT PLAN HAS BEEN DEVELOPED IN ACCORDANCE WITH THE CN'S DEVELOPMENT CONTROL PLAN, CN'S STORMWATER AND WATER EFFICIENCY FOR DEVELOPMENT TECHNICAL MANUAL AND AS3500.3:2015 PLUMBING AND DRAINAGE - STORMWATER DRAINAGE.

THE SITE CURRENTLY CONTAINS 4 SINGLE STOREY BUILDINGS ACROSS FOUR LOTS (LOT 111, 112, 116 AND LOT 117 DP253956), WITH A TOTAL AREA OF 2340m2 AND IS LOCATED WITHIN THE SEPP 14 WETLANDS CATCHMENT. THE DEVELOPMENT PROPOSES THE CONSTRUCTION OF A 2-STOREY AFFORDABLE HOUSING BUILDING WITH ASSOCIATED LANDSCAPING AND HARDSTAND. A VEHICLE ACCESS POINT IS PROPOSED FROM MATFEN CLOSE WITH PEDESTRIAN ACCESS ALSO PROPOSED FROM BOTH THE MATFEN CLOSE AND JOHN T BELL DRIVE FRONTAGES.

STORMWATER RUNOFF FROM THE ROOF AREA IS PROPOSED TO BE CONVEYED TO ABOVE GROUND REUSE TANKS WITH LEAKY TANK VOLUME. RUNOFF FROM DRIVEWAY AND LANDSCAPING AREAS IS PROPOSED TO BE CONVEYED TO A BELOW GROUND OSD TANK WITH SAND FILTER LOCATED ADJACENT JOHN T BELL DRIVE. CAPTURED RUNOFF IS ULTIMATELY PROPOSED TO BE DISCHARGED TO THE EXISTING DRAINAGE NETWORK WITHIN JOHN T BELL DRIVE.

1. STORAGE REQUIREMENTS

TOTAL SITE AREA	= 2330 m2			
TOTAL ROOF AREA TO REUSE TANK	= 920 m2			
TOTAL HARDSTAND AREA TO OSD	= 550 m2			
TOTAL LANDSCAPE TO OSD	= 90 m2			
TOTAL IMPERVIOUS AREA	= 1570 m2			
TOTAL PERVIOUS AREA = 760 r				
SITE IMPERVIOUS PERCENTAGE	= 67.4%			

IN ACCORDANCE WITH THE CN 2012 DCP, SECTION 7.06 (STORMWATER), FIGURE 1, A MINIMUM OF 16.52mm/m2/ OF RAINFALL IS TO BE CAPTURED FROM THE SITE'S IMPERVIOUS AREA TO MANAGE PEAK RUNOFF.

TOTAL SITE STORAGE REQUIREMENT	= 16.52 mm/m2 x 1570 m2
	= 25.94 m3

ONSITE HARVESTING/REUSE 2.

TO ACHIEVE THE WETLANDS CATCHMENT REQUIREMENTS, RAINWATER HARVESTING TANKS HAVE BEEN PROPOSED TO COLLECT 100% OF ROOF RUNOFF, WHICH WHEN COMBINED WITH THE PROPOSED OSD VOLUME WILL ADEQUATELY SATISFY THE TOTAL SITE STORAGE REQUIREMENT. A COMBINED 36.8m3 (0.04 x 920m2) OF REUSE TANKS HAS BEEN PROPOSED WHICH WILL INCORPORATE 18.4m3 REUSE VOLUME AND 18.4m3 LEAKY TANK VOLUME. THE HARVESTED VOLUME IS TO BE RETICULATED INTERNALLY FOR TOILET FLUSHING AND LAUNDRY USE AS WELL AS EXTERNALLY FOR LANDSCAPING IRRIGATION. ALL DOWN PIPES ARE TO BE CONNECTED TO A FIRST FLUSH DEVICE LOCATED PRIOR TO THE TANK INLET.

3. STORMWATER QUANTITY

IN ORDER TO SATISFY CN'S SITE STORAGE VOLUME AN OSD TANK HAS BEEN PROPOSED TO LIMIT PEAK STORMWATER DISCHARGE FROM SITE. 9.1m3 OSD VOLUME IS PROPOSED (16.52 mm/m2 x 550m2), WHICH WHEN COMBINED WITH THE PROPOSED 36.8m3 REUSE VOLUME, SATISFIES THE TOTAL SITE STORAGE REQUIREMENT.

4. STORMWATER QUALITY

IN ACCORDANCE WITH CN'S DCP WATER QUALITY PROVISIONS HAVE BEEN PROPOSED IN ORDER TO LIMIT ECOLOGICAL IMPACTS OF THE DOWNSTREAM RECEIVING WATER BODIES DUE TO THE DEVELOPMENT. THE NEW ROOF AREA IS PROPOSED TO BE MANAGED BY THE 36.8m3 RAINWATER REUSE TANK DESCRIBED IN SECTION 2 ABOVE. THE REMAINING SITE AREA (HARDSTAND AND LANDSCAPING) IS PROPOSED TO BE CONVEYED TO WATER QUALITY PROVISIONS WITHIN THE OSD TANK. IT IS PROPOSED TO PROVIDE A 5.1m2 IN-TANK SAND FILTER CHAMBER TO POLISH RUNOFF PRIOR TO SITE DISCHARGE.

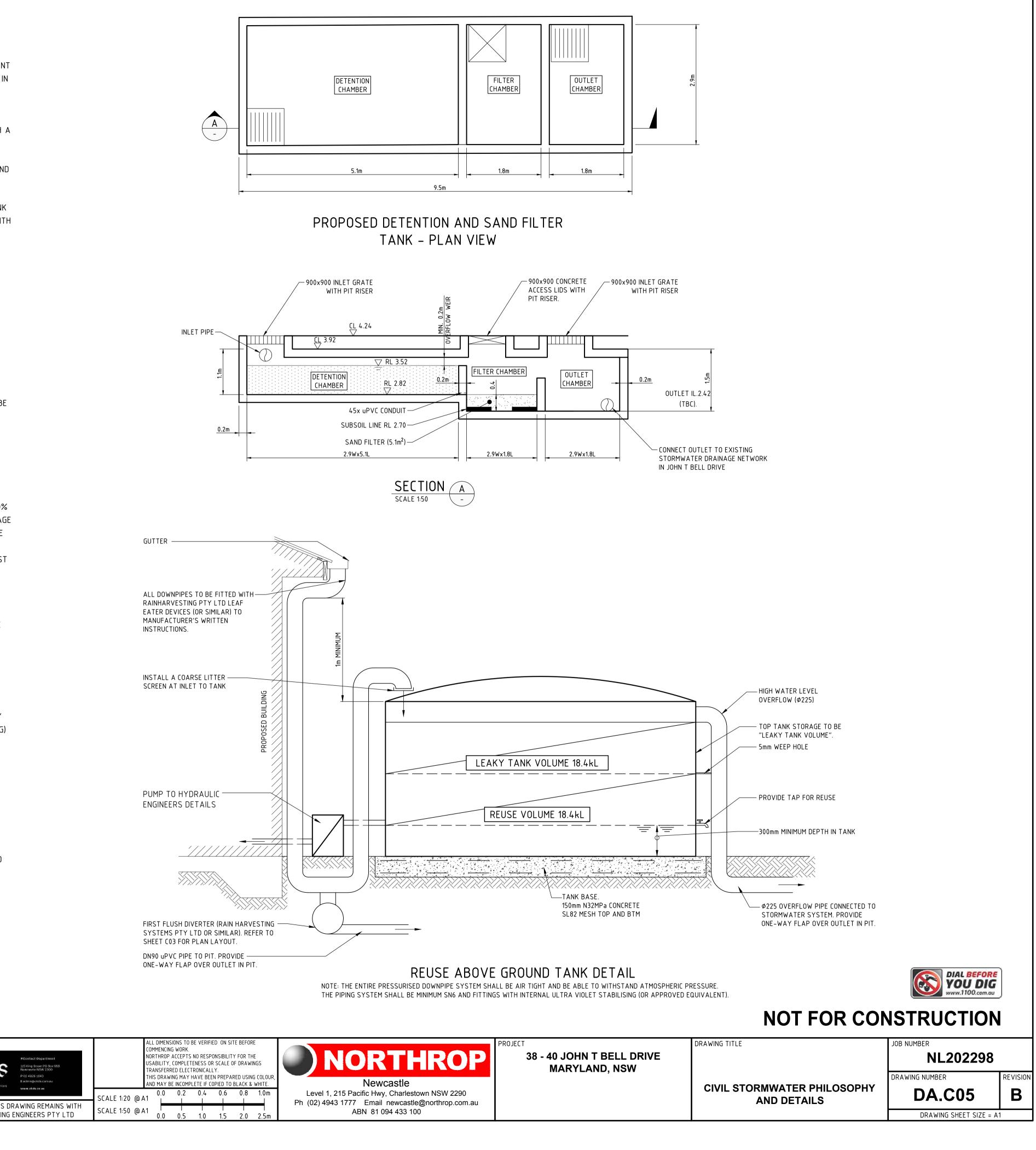
SAND FILTER AREA REQUIREMENT	= 0.8m2 FILTER AREA PER 100m2 CONTRIBUTING CATCHMENT
	= 0.8m2 x 640m2 /100
	= 5.12m2

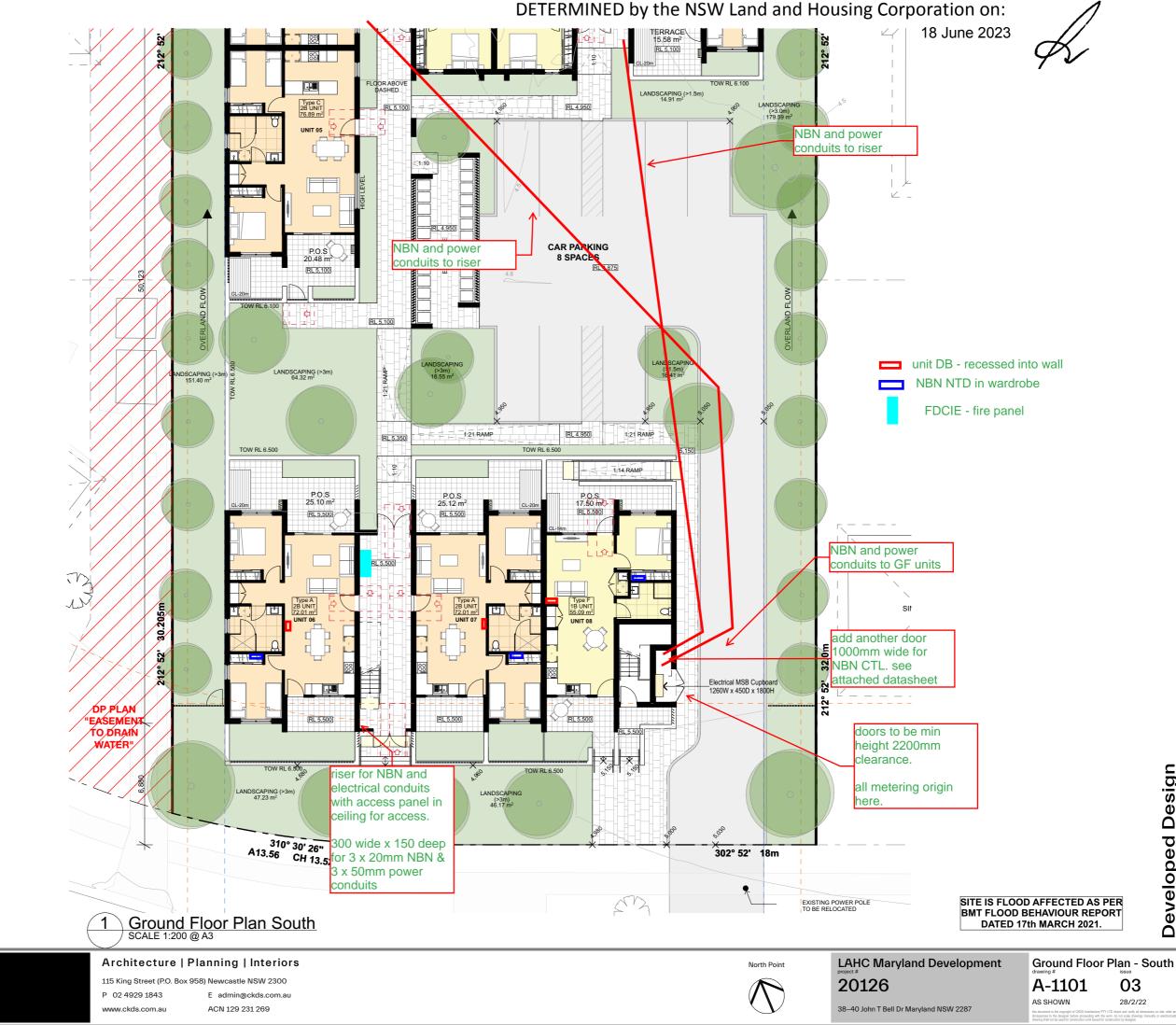
3. FLOODING

THE SITE IS SUBJECT TO FLOODING AND HAS BEEN ADDRESSED IN BMT'S EXISTING FLOOD BEHAVIOUR REPORT. THE RECOMMENDED FPL OF 5.1m FOR LOT 111 AND 112 AND 5.5m FOR LOT 116 AND 117 HAVE BEEN INTEGRATED INTO THE DESIGN.

IT IS CONSIDERED THAT THE PROPOSED STORMWATER MANAGEMENT PLAN ADEQUATELY MEETS THE DESIGN INTENT OF CN'S DCP.

		APP'D	DATE	CLIENT	ARCHITECT	ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK.		PROJECT
JL		EG 02	06.2022		C Poetici Department	NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE		38 - 40 JOHN T BE
JL		EG 02	06.2022	Family &		TRANSFERRED ELECTRONICALLY.		MARYLAND,
BD	KS	EG 19	.07.2022	Land & Housing Corporation	Rischitzertania (Planning) intentional www.shift.co.ac	THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE. 0.0 0.2 0.4 0.6 0.8 1.0m	Newcastle Level 1, 215 Pacific Hwy, Charlestown NSW 2290	
JK	KS	EG 06	.09.2022					
				DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD		Ph (02) 4943 1777 Email newcastle@northrop.com.au ABN 81 094 433 100	
	JL JL BD JK	JL JL BD KS JK KS	JL EG 02 BD KS EG 19.	JL EG 02.06.2022 BD KS EG 19.07.2022	JL EG 02.06.2022 BD KS EG 19.07.2022 JK KS EG 06.09.2022 D KS EG 06.09.2022 D Land & Housing Corporation DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	JL EG 02.06.2022 BD KS EG 19.07.2022 JK KS EG 06.09.2022 DRAWING NOT TO BE USED FOR CONSTRUCTION THE COPYRIGHT OF THIS DRAWING REMAINS WITH	JL EG 02.06.2022 BD KS EG 19.07.2022 JK KS EG 06.09.2022 JK KS EG 06.09.2022 D DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD SCALE 1:20 @ A1 0.0 0.2 0.4 0.6 0.8 1.0m	JL EG 02.06.2022 BD KS EG 10.07.2022 EG 06.09.2022 EG 0.00.05.0.0000 1.00.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.





SKDS

Developed Design





Architecture | Planning | Interiors

115 King Street (P.O. Box 958) Newcastle NSW 2300 P 02 4929 1843 E admin@ckds.com.au www.ckds.com.au ACN 129 231 269



18 June 2023





SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT DATED 17th MARCH 2021.

LAHC Maryland Development 20126

38-40 John T Bell Dr Maryland NSW 2287

03 A-1102 AS SHOWN 28/2/22

Ground Floor Plan - North





Architecture | Planning | Interiors

115 King Street (P.O. Box 958) Newcastle NSW 2300 P 02 4929 1843 E admin@ckds.com.au ACN 129 231 269 www.ckds.com.au



18 June 2023



Developed Design

SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT DATED 17th MARCH 2021.

LAHC Maryland Development 20126

38-40 John T Bell Dr Maryland NSW 2287

A-1103 03 28/2/22 AS SHOWN

First Floor Plan - North

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SKDS

Architecture | Planning | Interiors

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 ACN 129 231 269

Housing Corporation on: 18 June 2023



Developed Design

SITE IS FLOOD AFFECTED AS PER BMT FLOOD BEHAVIOUR REPORT DATED 17th MARCH 2021.

LAHC Maryland Development 20126

38-40 John T Bell Dr Maryland NSW 2287

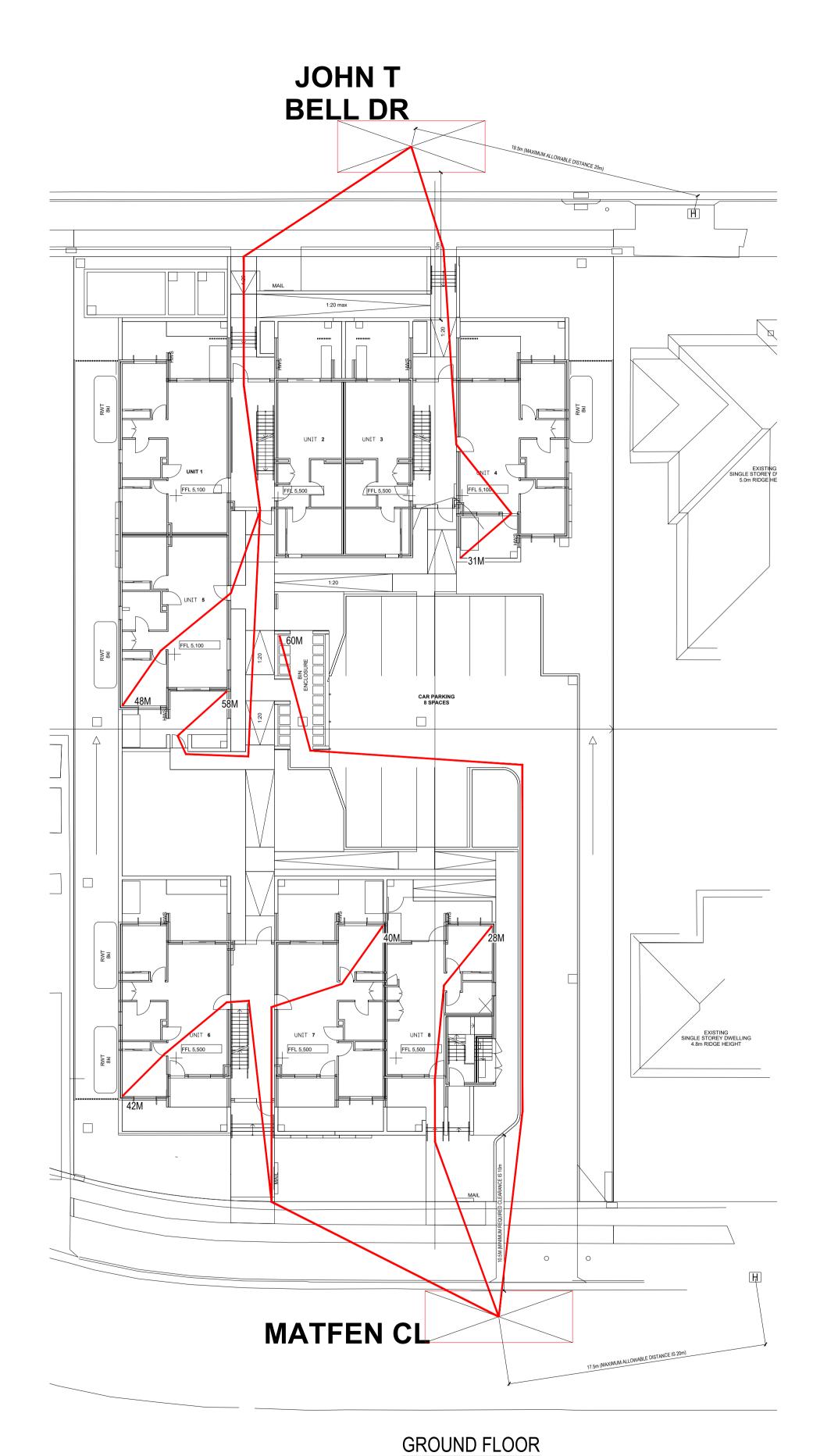
North Point

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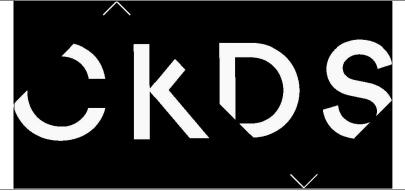
A-1104 03 AS SHOWN 28/2/22

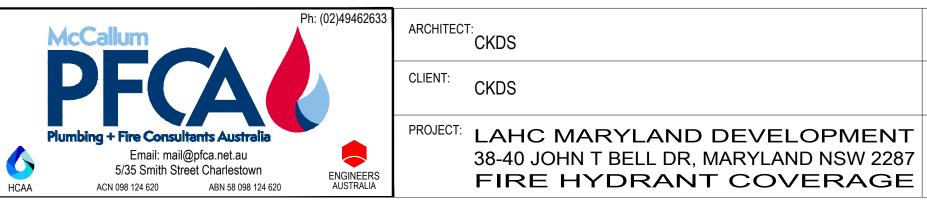
First Floor Plan - South

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10M 1:200 @A1 GENERAL NOTES: 1. THE DRAWING ISSUED IS DIAGRAMMATIC. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. REFER TO ARCHITECTURAL DRAWINGS WHERE APPROPRIATE FOR EXACT LOCATION OF FIXTURES, DUCTS AND THE LIKE. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTS FORMING THE PROJECT DOCUMENTATION PACKAGE. 2. CONFIRM ALL LEVELS AND DIMENSIONS AS ACCURATE ON SITE PRIOR TO INSTALLATION. REPORT ALL DISCREPANCIES TO THE SUPERINTENDENT IMMEDIATELY. 3. THIS DRAWING HAS BEEN ISSUED IN CONFIDENCE AND REMAINS THE PROPERTY OF MCCALLUM PLUMBING & FIRE CONSULTANTS AUSTRALIA. DISTRIBUTION OR 02/09/22 FOR INFORMATION REPRODUCTION OF THE WHOLE OR PART OF THIS DRAWING WITHOUT THE EXPRESS PERMISSION OF MCCALLUM PLUMBING & FIRE CONSULTANTS REV DATE AMENDMENT AUSTRALIA IS A BREACH OF THE COMMONWEALTH COPYRIGHT ACT.









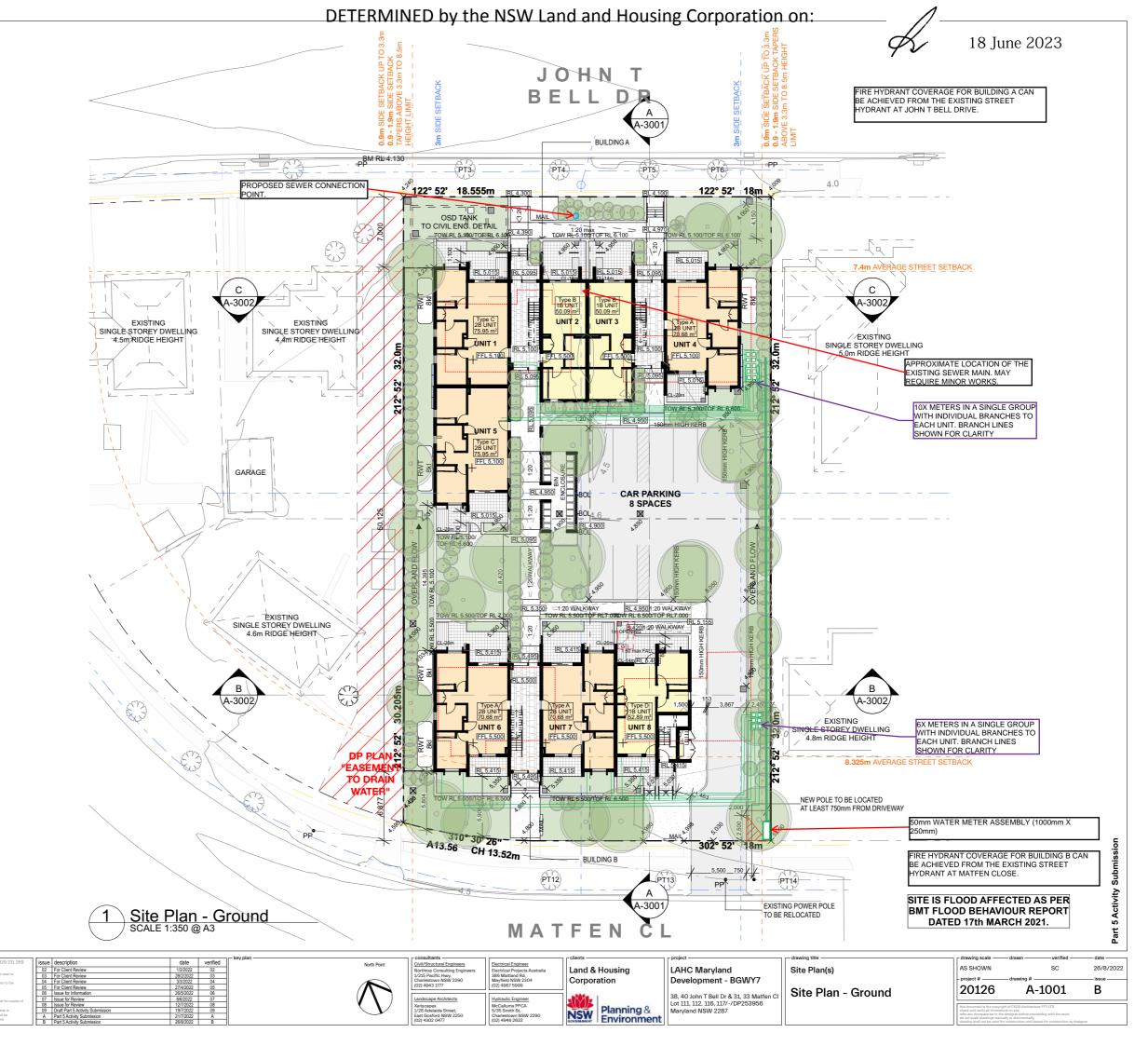


NOTE: THE ENTIRE PLUMBING INSTALLATION IS TO COMPLY WITH THE FULL REQUIREMENTS OF THE LOCAL REGULATORY AUTHORITY, A.S.3500 AND THE PLUMBING AND THE BUILDING CODES OF AUSTRALIA.

Revision

F-01

R.McCALLUM



HYDRAULIC SERVICES SPATIAL MARKUP 02/09/2022

P.O.S.	Private Open Space
RL	Reduced Level
RWT	Rain Water Tank
BG	Box Gutter
FB1	Face Brickwork Type 1
FB2	Face Brickwork Type 2
LC1	Lightweight Cladding - Prefinished Board
GB	Glazed Aluminium Balsutrade - Obscure
MRS	Metal Roof Sheeting
MRC	Metal Roof Capping/Flashing
EG	Eaves Gutter
DP	Downpipe
FEN1	Fence Type 1 - Vertical Slat
SCR	Privacy Screen - Vertical Slat
LB	Letterbox

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