

ACTIVITY DETERMINATION

Project No. BGWYR

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

SITE IDENTIFICATION		
STREET ADDRESS		
Unit/Street No	Street or property name	
70 - 72	Gordon Avenue	
Suburb, town or locality		Postcode
South Granville		2142
Local Government Area(s)	Real property description (Lot and	DP)
Cumberland	Lot/s 43 & 44 DP 36280	

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.

ACTIVITY DESCRIPTION

Provide a description of the activity

Removal of trees, and the construction of a multi-dwelling housing development comprising 6 x 2-bedroom townhouses and 2 x 3-bedroom townhouses, surface parking for 5 cars (including 1 accessible space), associated landscaping and fencing, and consolidation of 2 existing lots into a single allotment.

Signed.....

Dated.....

Yolanda Gil Acting Executive Director, Portfolio Strategy and Origination Housing Portfolio Homes NSW

SCHEDULE 1

IDENTIFIED REQUIREMENTS

PART A - Standard Identified Requirements

THE DEVELOPMENT

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

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

Title / Name	Drawing No /	Revision	Date	Prepared by
	Document Ref	/ Issue	[dd/mm/yyyy]	
Architectural				
Coversheet &	DA00	03	19/02/2024	Stanton Dahl Architects
Location				
Site & Block	DA01	03	19/02/2024	Stanton Dahl Architects
Analysis				
Cut & Fill Plan	DA03	03	19/02/2024	Stanton Dahl Architects
Site & External	DA04	03	19/02/2024	Stanton Dahl Architects
Works Plan –				
Ground Floor				

Title / Name	Drawing No /	Revision	Date	Prepared by	
Architectural	Document Ref	/ Issue	[dd/mm/yyyy]		
Site & External	DA05	03	19/02/2024	Stanton Dahl Architects	
Works Plan – First	DAUS	03	19/02/2024	Stanton Dant Architects	
Floor					
Landscape & Deep	DA06	03	19/02/2024	Stanton Dahl Architects	
Soil Diagrams	DAGG	03	13/02/2024	Stanton Dant Architects	
Floor & Roof Plans	DA07	03	19/02/2024	Stanton Dahl Architects	
(Block A)	DAOT	03	13/02/2024	Stanton Dant Architects	
Ground Floor Plans	DA08	03	19/02/2024	Stanton Dahl Architects	
(Block B)	D7100		10/02/2021	Stanton Bant / Worldests	
First Floor Plan	DA09	03	19/02/2024	Stanton Dahl Architects	
(Block B)	27.00		.0,02,202		
Roof Plan (Block B)	DA10	03	19/02/2024	Stanton Dahl Architects	
Elevations	DA11	03	19/02/2024	Stanton Dahl Architects	
Elevations	DA12	03	19/02/2024	Stanton Dahl Architects	
Sections	DA13	03	19/02/2024	Stanton Dahl Architects	
Sections	DA14	03	19/02/2024	Stanton Dahl Architects	
Shadow Diagrams	DA15	03	19/02/2024	Stanton Dahl Architects	
(Sht 1)					
Shadow Diagrams	DA16	03	19/02/2024	Stanton Dahl Architects	
(Sht 2)					
External Colour	DA17	03	18/12/2023	Stanton Dahl Architects	
Selection					
Civil/ Stormwater					
Notes & Legend	C01	9	01/11/2023	Greenview Consulting	
Ground Floor	C02	11	06/02/2024	Greenview Consulting	
Drainage Plan					
Site Stormwater	C03	10	06/02/2024	Greenview Consulting	
Details Sheet					
OSD Catchment	C04	9	01/11/2023	Greenview Consulting	
Plan					
Roof Drainage Plan	C06	8	01/11/2023	Greenview Consulting	
Ground Floor	C10	2	29/09/2023	Greenview Consulting	
Turning Paths Sheet					
Ground Floor	C11	2	29/09/2023	Crossian Consulting	
Turning Paths Sheet	CII	2	29/09/2023	Greenview Consulting	
2					
Ground Floor	C12	2	29/09/2023	Greenview Consulting	
Turning Paths Sheet	OIL	_	25/05/2020	dicenview consutting	
3					
Ground Floor	C13	2	29/09/2023	Greenview Consulting	
Turning Paths Sheet	0.0		20,00,2020	areannen concarring	
4					
Notes & Legends	ESM1	1	18/10/2023	Greenview Consulting	
Environmental Site	ESM2	1	18/10/2023	Greenview Consulting	
Management Plan					
Landscape					
Landscape Plan	L01	3	16/10/2023	Stanton Dahl Architects	
Landscape Details	L02	3	16/10/2023	Stanton Dahl Architects	
Survey					
Detail and Level	1 of 2	Α	02/03/2021	Norton Survey Partners	
Survey					
BASIX					
NatHERS	0008183840		16/02/2024	Greenview Consulting	
Certificate					
BASIX Certificate	1182754M_10		16/02/2024	Greenview Consulting	

Title / Name	Drawing No / Document Ref	Revision / Issue	Date [dd/mm/yyyy]	Prepared by		
Architectural	Document Nei	/ issue	[[du/IIIII/yyyy]			
Reports						
Traffic and Parking Impact Assessment	230291	J	29/09/2023	Greenview Consulting		
Arboricultural Impact Assessment and Tree Management Plan	5845.4		03/11/2023	Redgum Horticultural		
Waste Management Plan	2873.23		September 2023	Stanton Dahl Architects		
Access Report	21384	F	27/09/2023	Vista Access Architects		
Geotechnical Investigation Report	20/3757		October 2020	STS Geotechnics Pty Ltd		
BCA Design Compliance Assessment	23-220009	R06	05/10/2023	Philip Chun		
Acoustic Design Report	20201164.5/0 211A/R2/RF	2	02/11/2022	Acoustic Logic		

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

OPERATIONAL MATTERS

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

Stormwater Run-off

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

Vehicular Access & Parking

10. A concrete vehicular crossing and layback shall be provided at the entrance / exit to the property. The crossing and layback shall be constructed in accordance with Cumberland City Council 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 prior to work commencing. The contractor shall arrange for necessary inspections by Council whilst the work is in progress or after completion of the works.

The plans shall be:

- Prepared and submitted in electronic format, undertaken by a consulting civil engineer.
- Upon completion of the works, the contractor is to provide Council two copies
 of 'work as executed plans". The plans are to show relevant dimensions and
 finished levels and are to be certified by a registered surveyor. The contractor
 is also to provide Council details of all public infrastructure created as part of
 the works, including certification that the design meets all relevant Australian
 Standards and Council specifications from an engineer with relevant industry
 experience.
- 11. Particular care shall be taken in the location of vehicular crossings and/or laybacks to avoid poles, pits etc. The cost of any necessary adjustments to utility mains and services associated with the construction of the layback / driveway shall be borne by the Land & Housing Corporation. Obsolete gutter laybacks shall be constructed as kerb in accordance with Cumberland City Council standards.

Note:

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

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

Site Works

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

Building Siting

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

Smoke Detection System(s)

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

Site Soil Contamination

17. If the site is identified as being potentially affected by soil contamination, it shall be inspected by a suitably qualified person to identify any contaminated or hazardous material present. A proposal for remediation shall be prepared, which may include preparation of a Remedial Action Plan, and remediation shall be carried out in accordance with the proposal. A Validation Report, prepared in accordance with Environment Protection Authority requirements, shall be obtained from a qualified expert on completion of the remediation work to verify that the site is suitable for the intended residential use. A copy of the Validation Report shall be provided to the Land & Housing Corporation on completion of the remediation works.

Landscaping

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

Tree Removal

20. Removal of trees within the boundaries of the site is to be carried out in accordance with the trees shown for removal on the approved landscape plan and Arboricultural Impact Assessment and Tree Management Plan and no other trees shall be removed without further approval(s).

Fencing

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

Provision of Letterbox Facilities

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

Public Liability Insurance

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

PRIOR TO ANY WORK COMMENCING ON THE SITE

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

Disconnection of Services

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

Utilities Service Provider Notification

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

Note:

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

Council Notification

27. Cumberland City Council shall be advised in writing, of the date it is intended to commence work, including demolition. A minimum period of 5 working days notification shall be given.

Site Safety

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

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

Note:

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

29. 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.

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

Site Facilities

- **31.** 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 Cumberland City Council or if this is not practicable to some other council approved management facility.
 - (b) Adequate refuse disposal methods and builders storage facilities. Builders' wastes, materials or sheds shall not to be placed on any property other than that which this approval relates to.
- **32.** Access to the site shall only be provided via an all-weather driveway on the property and is not to be provided from any other site.

Protection of Trees

33. Trees and other vegetation that are to be retained on site 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 Arboricultural Impact Assessment and Tree Management Plan.

Waste Management

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

PRIOR TO ANY CONSTRUCTION WORK COMMENCING ON SITE

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

Service Authority Clearances

35. A compliance certificate, or other evidence, shall be obtained from Sydney Water, confirming service availability prior to work commencing.

Note:

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

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

Stormwater Disposal

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

DURING CONSTRUCTION WORKS

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

Landfill

- 41. Where site filling is necessary, a minimum of 95% standard compacting shall be achieved and certified by a NATA registered Soils Lab.
- **42.** Land fill materials must satisfy the following requirements:
 - i. be Virgin Excavated Natural Matter (VENM);
 - ii. be free of slag, hazardous, contaminated, putrescible, toxic or radio-active matter; and
 - iii. be free of industrial waste and building debris.

Heritage

43. Historic and indigenous archaeological sites and relics are protected under the Heritage Act 1977 and National Parks and Wildlife Act 1974, respectively. Should any relics be uncovered during the course of the approved works, work must cease

immediately in the affected area. Subsequently, in cases where historical items have been uncovered, the Department of Climate Change, Energy, the Environment and Water must be contacted.

44. All workers / contractors on the site shall be informed of their obligations, under the Heritage Act and *National Parks and Wildlife Act 1974*, that it is illegal to disturb, damage or destroy a relic without the prior approval.

Survey Reports

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

Hours of Construction / Civil Work

46. Construction / civil work shall only occur on the site between the hours of 7am to 5pm Monday to Saturday with no work permitted on Sundays or public holidays.

Excavation & Backfilling

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

Pollution Control

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

Impact of Construction Works

55. The Land & Housing Corporation shall bear the cost of any necessary adjustments to utility mains and services.

56. Care shall be taken to prevent any damage to adjoining properties. The building contractor shall be liable to pay compensation to any adjoining owner if, due to demolition/construction works, damage is caused to such adjoining property.

Termite Protection

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

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

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

PRIOR TO OCCUPATION OF THE DEVELOPMENT

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

General

58. The use or occupation of the development shall not commence until all the identified requirements of this determination have been complied with.

Council Infrastructure Damage

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

Stormwater Drainage

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

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

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

PART B - Additional Identified Requirements

Site Specific Requirements

- 61. Buildings will be constructed to comply with the deemed-to-comply provisions of the Building Code of Australia and EPA criteria with respect to noise transmission as identified in the Acoustic Report.
- 62. The adjoining landowner at 74 Gordon Avenue must be consulted with prior to the ordering of any new fencing proposed for the southern boundary of the subject site.
- 63. In accordance with the recommendations of the Traffic Impact Assessment prepared by Greenview Consulting dated 29 September 2023, "10km/hr SHARED ZONE" signs must be installed along the internal driveway.

Requirements Resulting from Council Comments

- 64. All soft and hard landscaping works to be undertaken on the site are to be carried out by a minimum AQF3 landscaper. The final inspection of works should be signed off by an individual other than the person carrying out the works.
- 65. Detailed footpath levels shall be obtained from Council before finalisation of the footpath and driveway design by lodging an 'Application for Property Boundary Line Levels'. Any required adjustments shall be included in the construction documentation. Unless an alternative specific design is submitted and approved by Council, the footpath levels adjoining the site shall generally be as follows:
 - a) The internal driveway levels shall be designed to meet Council's footpath verge levels such that a maximum cross fall of 2.5% is achieved where the footpath meets the driveway.
 - b) The level of the boundary line as it crosses the driveway shall incorporate a cross fall equivalent to the general longitudinal grade of the street.
 - c) Any required adjustments shall be included in the plans and submitted for approval prior to the release of the crown construction certificate.

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

Project No. BGWYR

SITE IDENTIFICATION				
STREET ADDRESS				
Unit/Street No	Street or property name			
70 - 72	Gordon Avenue			
Suburb, town or locality		Postcode		
South Granville		2142		
Local Government Area(s)	Real property description (Lot and	DP)		
Cumberland	Lot/s 43 & 44 DP 36280			
ACTIVITY DESCRIPTION				
Provide a description of the activit	су			
bedroom townhouses and 2 x 3-be	ction of a multi-dwelling housing developn edroom townhouses, surface parking for 5 dscaping and fencing, and consolidation of	cars (including 1		

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 Cumberland 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 development will have economic and social benefits and any minor short-term impacts on the environment or surrounding properties can be appropriately mitigated. The proposed development will assist in the provision of much needed social and affordable housing and assist in addressing the existing and growing demand for housing in the local government area.

Mitigation Measures

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

Yolanda Gil Acting Executive Director, Portfolio Strategy and Origination Homes NSW

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

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LAHC, Multi Dwelling Housing Development (8 Townhouses) 70-72 Gordon Avenue, Granville, NSW Part 5 Activity Submission 19/2/24

Architectural

2873.23	DA00	Cover Sheet & Location Plan
2873.23	DA01	Site & Block Analysis Plan
2873.23	DA02	Demolition Plan
2873.23	DA03	Cut & Fill Plan
2873.23	DA04	Site & External Works Plan - Ground Floor
2873.23	DA05	Site & External Works Plan - First Floor
2873.23	DA06	Landscape & Deep Soil Diagrams
2873.23	DA07	Floor & Roof Plans (Block A)
2873.23	DA08	Ground Floor Plan (Block B)
2873.23	DA09	First Floor Plan (Block B)
2873.23	DA10	Roof Plan (Block B)
2873.23	DA11	Elevations
2873.23	DA12	Elevations
2873.23	DA13	Sections
2873.23	DA14	Sections
2873.23	DA15	Shadow Diagrams (Sht 1)
2873.23	DA16	Shadow Diagrams (Sht 2)
2873.23	DA17	External Colour Selection

Civil Drawing Schedule

230291	C01	Notes & legends
230291	C02	Ground Floor Drainage Plan
230291	C03	Site Stormwater Details Sheet
230291	C04	OSD Catchment Plan
230291	C05	Lower Roof Drainage Plan
230291	C06	Roof Drainage Plan

Landscape Drawing Schedule

2873.23 L01 Landscape Plan

Survey Drawing Schedule

Detail & Level Survey

23168 – 70-72 Gordon Ave, Granville, NSW

Adaptable units to comply with AS4299 and the requirements noted in Access report 23168 by Vista Access Architects

- Where internal layout of the bathroom changes, pre-plumbing and capping of services is required at pre-adaptation to the postadaptation location of fixtures.
- Wall reinforcements are to be provided at pre-adaptation.
- Main entry doorway, doorways to adaptable bathroom and main adaptable bedroom to be as per AS1428.1 with 850mm clear
- One accessible or 3.8M wide parking space is to be allocated to each of the adaptable units.

Specifications for LHA Silver Livable units

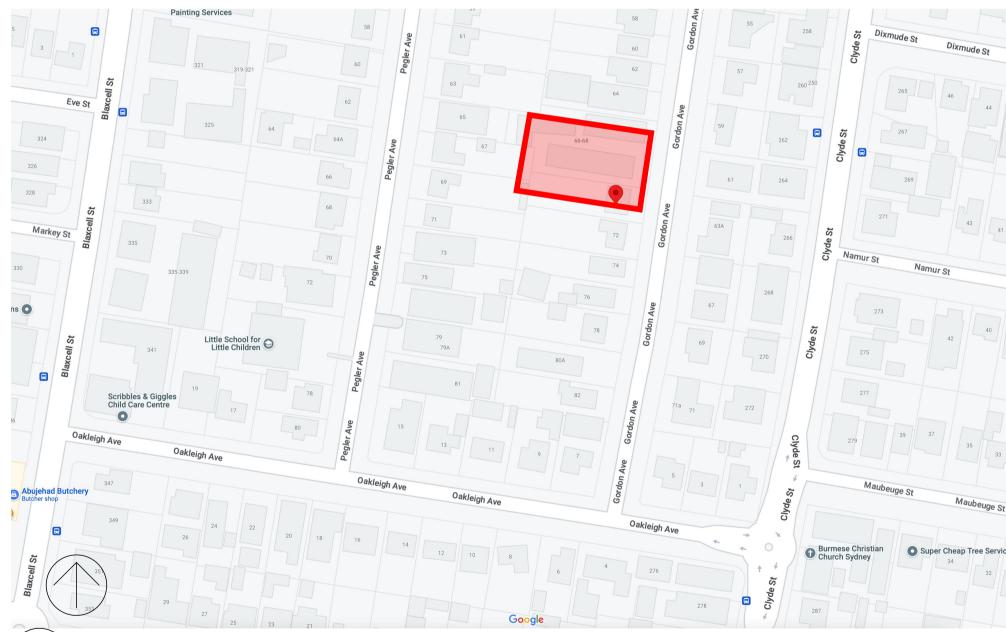
- Pathway linking the site boundary to the main entry doorway to be step free, have min clear width of 1000mm, an even, firm, slip resistant surface and a crossfall of not more than 1:40.
- If a ramp is required to the access pathway, then a maximum pathway slope to be 1:14, with landings provided at no greater than 9m for a 1:14 ramp and no greater than 15m for ramps steeper than 1:20. Landings should be not less than 1200mm in length. - If the height is 190mm or less, a step ramp may be provided at an entrance doorway with a max gradient of 1:10 and a minimum
- Level landings to be no less than 1200mm in length, exclusive of the swing of the door or gate (if provided) that opens onto them, must be provided at the head and foot of the ramp.
- A level landing area of 1200mm x 1200mm should be provided at the level (step-free) entrance door with roof over. - Where the threshold at the entrance / garage door exceeds 5mm and is less than 56mm, a 1:8 grade ramped threshold is to be provided within 20mm of the door leaf.

Internal works

- All doorways to the entry level to have a minimum clear opening width of 820mm. If the entry level does not have a shower then the door to bathroom on upper floor level with shower is also required to have a minimum clear opening width of 820mm. Provision of bath-tub is not mandatory but where provided, the bathroom with the bathtub is also required to have a minimum clear opening
- A level (step-free) transition and threshold (maximum vertical tolerance of 5mm between abutting surfaces is allowable provided the lip is rounded or bevelled) is to be provided to all areas on the ground floor/ entry level. This means that all wet areas are to be recessed in the floor for flush transition to door thresholds.
- Internal corridors/passageways to the doorways to entry level should provide a minimum clear width of 1000mm when measured <u>from skirting to skirting</u> or skirting to benchtop or benchtop to benchtop.
- 1 WC pan on entry level to have slip resistant flooring and to have a minimum clear space of 900mm (width) x 1200mm (forward of pan) clear of door swing or any fixtures including hand basins.
- Min 600mm wall forward of the WC pan is required to have noggings and to be clear of the door frame or any window openings. - One bathroom should feature a slip resistant, hobless (step-free) shower recess in the corner of the room. Shower screens are permitted provided they can be removed at a later date.
- Wall reinforcements for the toilet on the ground floor and 1 corner shower and to bathtub (if any) are required to be as shown in the Livable Housing Guidelines ie 25mm nogging or 12mm sheeting.
- Internal Stairway where provided is required to provide a continuous handrail on one side. If winders are provided to the mid landings then the continuous handrail is to be on the outside. (not on the side where the steps merge)







Location Plan not to scale

Electronic Documentation The electronic copies of Architectural drawings, provided at the Builder's request for assistance in the production of shop drawings are subject to the following conditions:

* these drawings are not contract documents the recipient is responsible for any inaccuracies or omissions resulting from faulty electronic transfer of the information * it rémains the Builder's responsibility to provide to sub-contractors all the information they need to carry out the work based on the contract documents including any notices to tenderers, site instructions etc. No responsibility will be accepted by the Architect nor will a variation to the contract be approved for any incomplete or deficient information provided by the Builder to a sub-* the electronic copies are to be used strictly for the purpose for which they are provided. All the information contained in them remains the copyright of

This is an electronic copy of the drawing provided for information only. The contract documents are the hard copy and no guarantee can be provided that the electronic copies as transferred are identical.

General Notes

- 1. refer to the architectural drawings and specification in conjunction with consultants documentation for the full scope of works.
- 2. for all structural elements including steel or reinforced columns, floor slabs, stairs, retaining walls, and roof framing refer to structural engineers drawing and details, u.n.o.
- the site boundaries and levels have been established from the survey
- building setout and boundary clearance to be verified by a registered surveyor before construction begins and any discrepancies referred to
- all levels based on assumed datum, u.n.o. all construction work to be carried out to comply with the requirements of authorities having jurisdiction over the works, including the conditions
- statutory authorities. figured dimensions to be taken in preference to scaling from drawings. drawings not to be scaled without approval of the architect. any discepancies or contradictions on or between the drawing or with

of approval issued for the project by the local council and relevant

- the specification shall be referred to the architect for clarifications before 9. all building works must be carried out in accordance with the building code of australia including relevant state based variations and additions

 10. the building is designed to be type.......construction in
- 11. the BCA is interpreted to require a building of class... with a rise of... 12. refer to services consultants documents for all relevant services details.
 13. all works to comply with AS1428.1 & AS1428.4 - Design for access and
- 14. clear dimensions of required exits including stairs, fire passages and landing and paths of travel to an exit shall be minimum 1 metre wide and minimum 2 metres high.

accordance with the BCA

ADDRESS	70-72 Gordon Avenue, South Granville					
SITE AREA	1599.8m2					
NUMBER OF EXISTING LOTS	Lots 43 & 44 DP 36280					
		Land Zoning: R3				
		·				
	Ground Floor		393.21	m2		
054	First Floor		305.30	m2		
GFA	TOTAL		698.51	m2		
NUMBER OF	GFA* measured	to inner face of e	xternal enclosin	ng wall, excluding ga	rages.	
DWELLINGS		8 Apartm	nents - 6 x 2 Be	d, 2 x 3 Bed		
DWELLING	Number	Type*	Beds	Area* (m ²)	POS (m2)	
AREAS	1	General	3	109.68	80.41	
	2	General	2	84.85	74.55	
	3	General	2	79.93	27.72	
	4	General	2	79.93	27.72	
	5	General	2	79.93	27.72	
	6	General	2	79.93	27.72	
	7	General	2	79.93	27.72	
	8	General	3	104.32	77.58	
				•		
				al wall including inte		
	Con	ntrol	Req	uirement	Proposed	
BUILDING HEIGHT	Housing	g SEPP	9m		8.3m (2 Storeys)	
11210111	SLU	JDG			(2 Otoroyo)	
FSR	(note FSR is measured from the internal face of the external wall under the Housing SEPP).		0.5:1		0.43 : 1 (698.51 m2)	
	Cumberl	and LEP		0.6:1		
			0.5 space	e per 2 bed = 3		
PARKING	SEPP (H	Housing)		per 3 bed = 2	5 spaces	
		,		es required = 5		
			total spac			
	Cumberland	Front Setback	3.5m		TH01: 5.29m; TH02: 4.07m	
	LEP (Part B2) / Low Rise		1.5m*			
SETBACKS	Housing Diversity Design Guide for Development Applications	Side Setback	*expect where developmen the front building line and > EGL. In this instance, a mir to the building height at tha 3m, required		North: 4.5m	
		Rear Setback	6m		3m	
LANDSCAPE	SLU	JDG	30% of site are = 479.94m2		641.15m2 (40% of site	
LANDOCALE	Cumberla	nd DCP	20% of site are or 30m2 per dwelling		area)	
DEEP SOIL	SLUDG			area, min 3m = 9.97m2	418.44m2 (26% of site area)	
SOLAR ACCESS	SLUDG		have 3hrs o	lings & POS must of direct sunlight on to 3pm 21 June	Living - 7/8 = 87.5% POS - 7/8 = 87.5%	

DEVELOPMENT DATA - TOWNHOUSES







LAHC

Multi Dwelling Housing Development (8 Townhouses) 70-72 Gordon Avenue, Granville, NSW

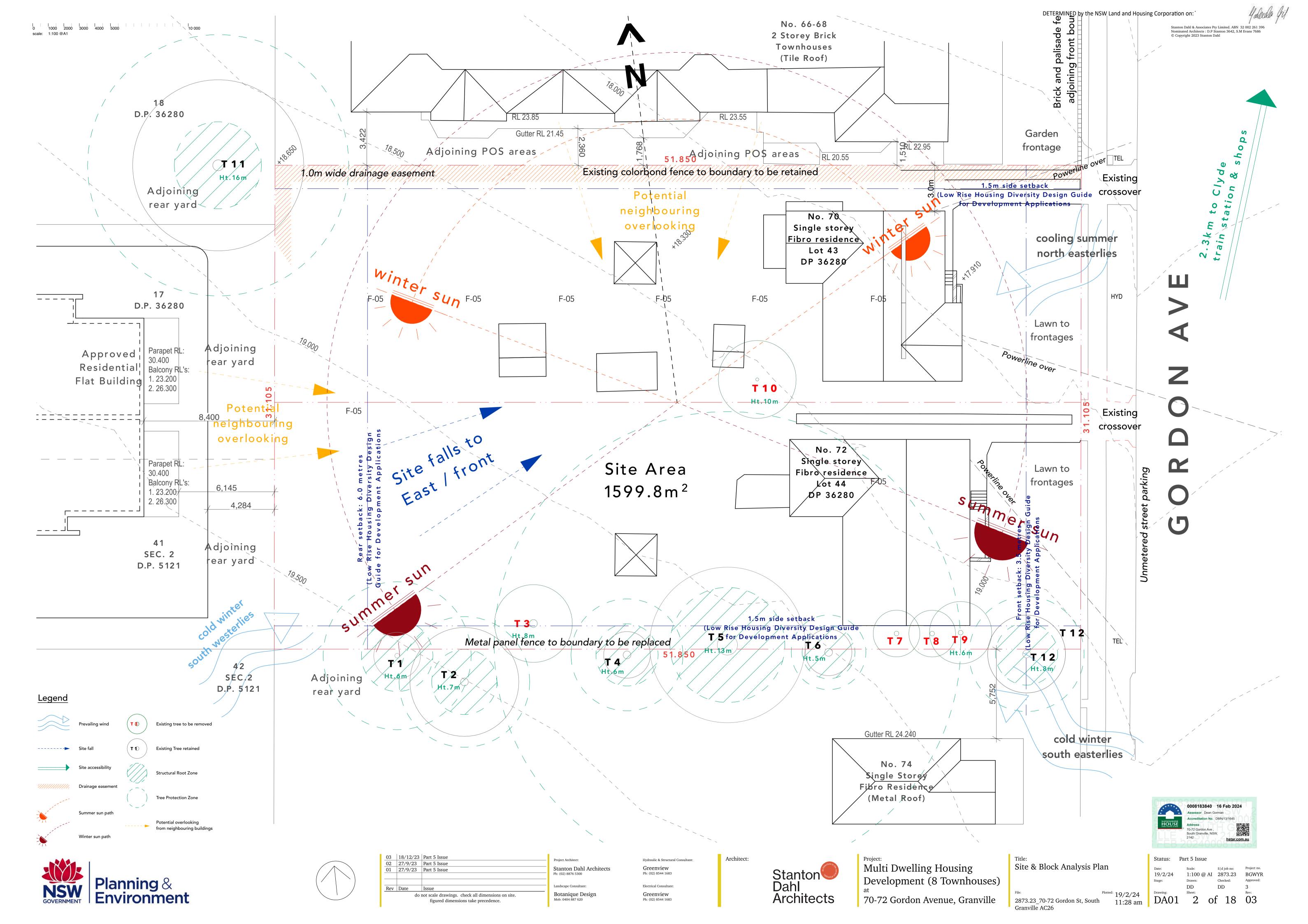
Drawn; DD Checked; DD Plot date; 19/2/24

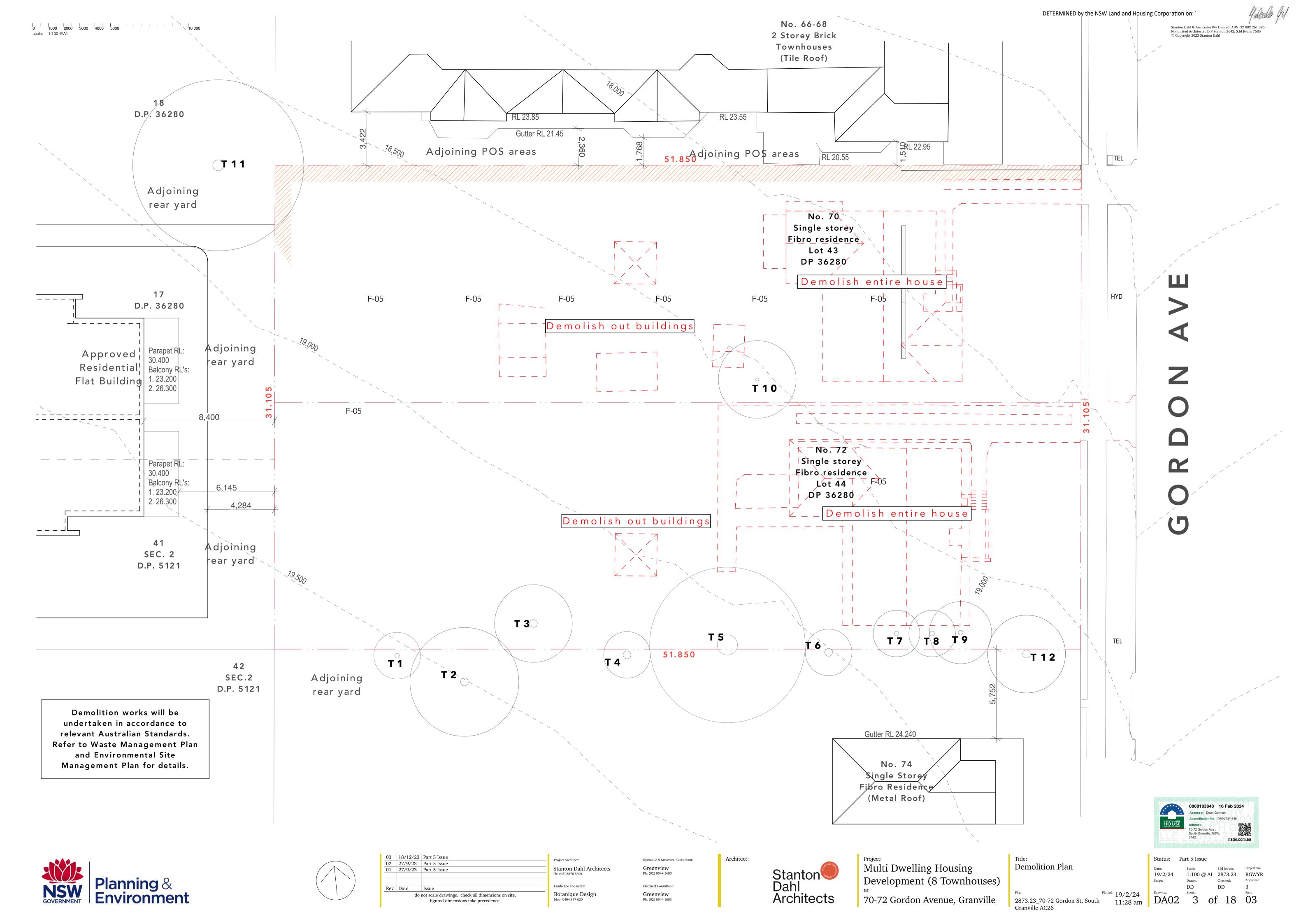
Scale; as noted @ AI

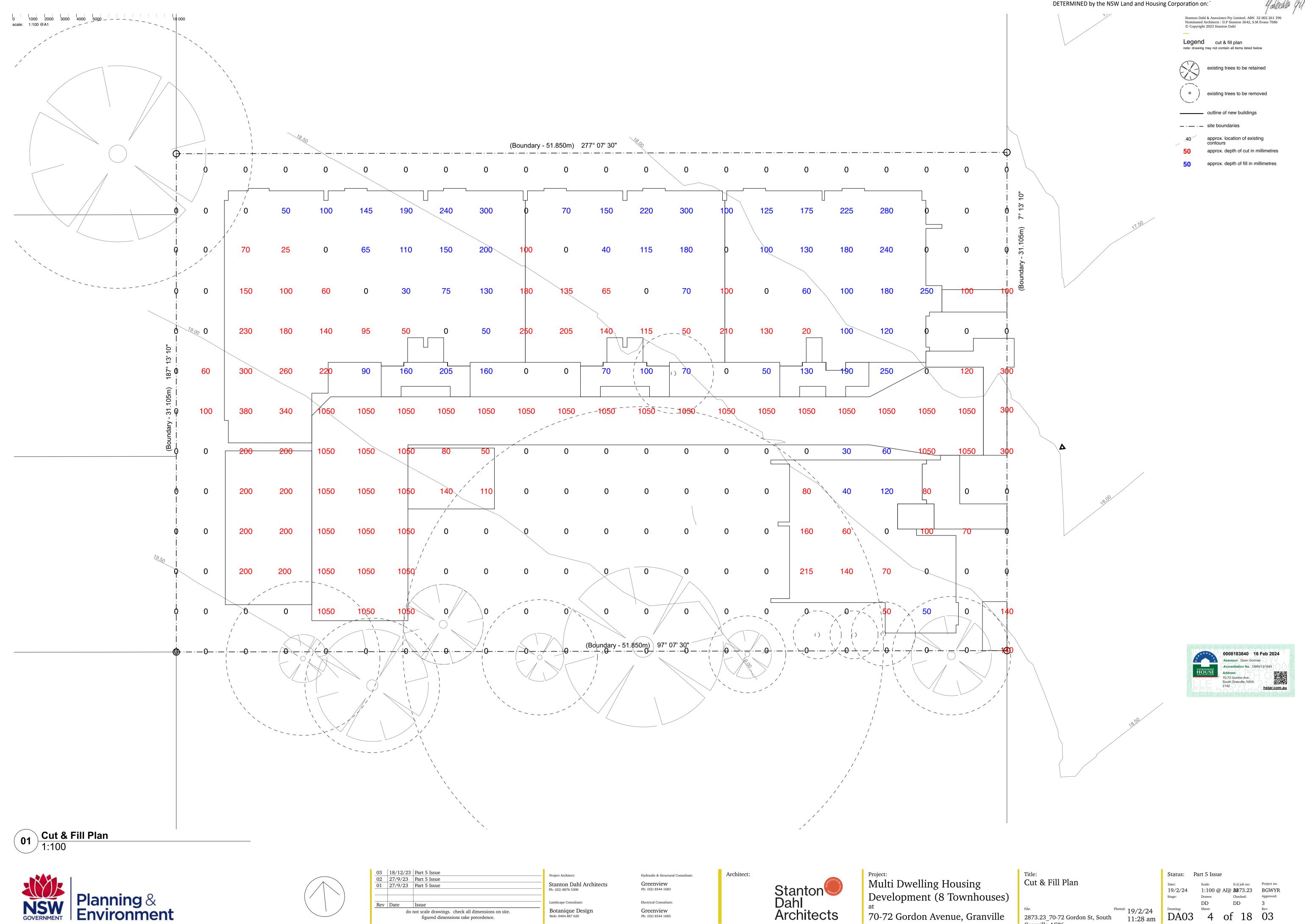
Project No; **BGWYR**

Drawing No; Revision#; DA00 03

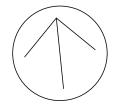
Cover Sheet & Location Plan

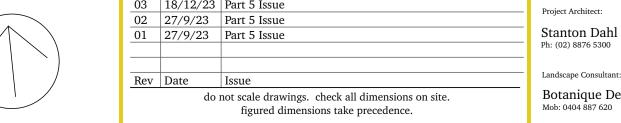












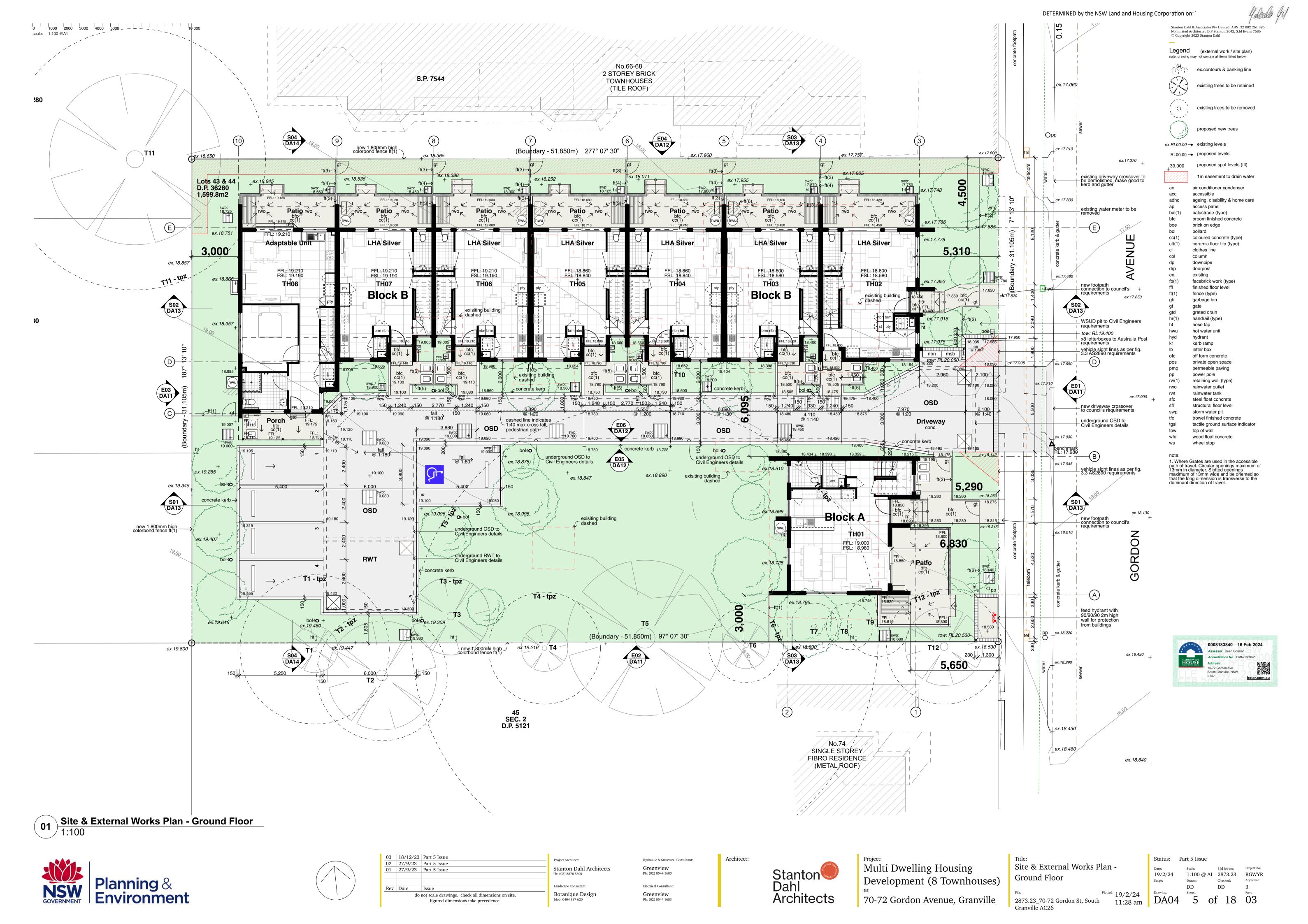


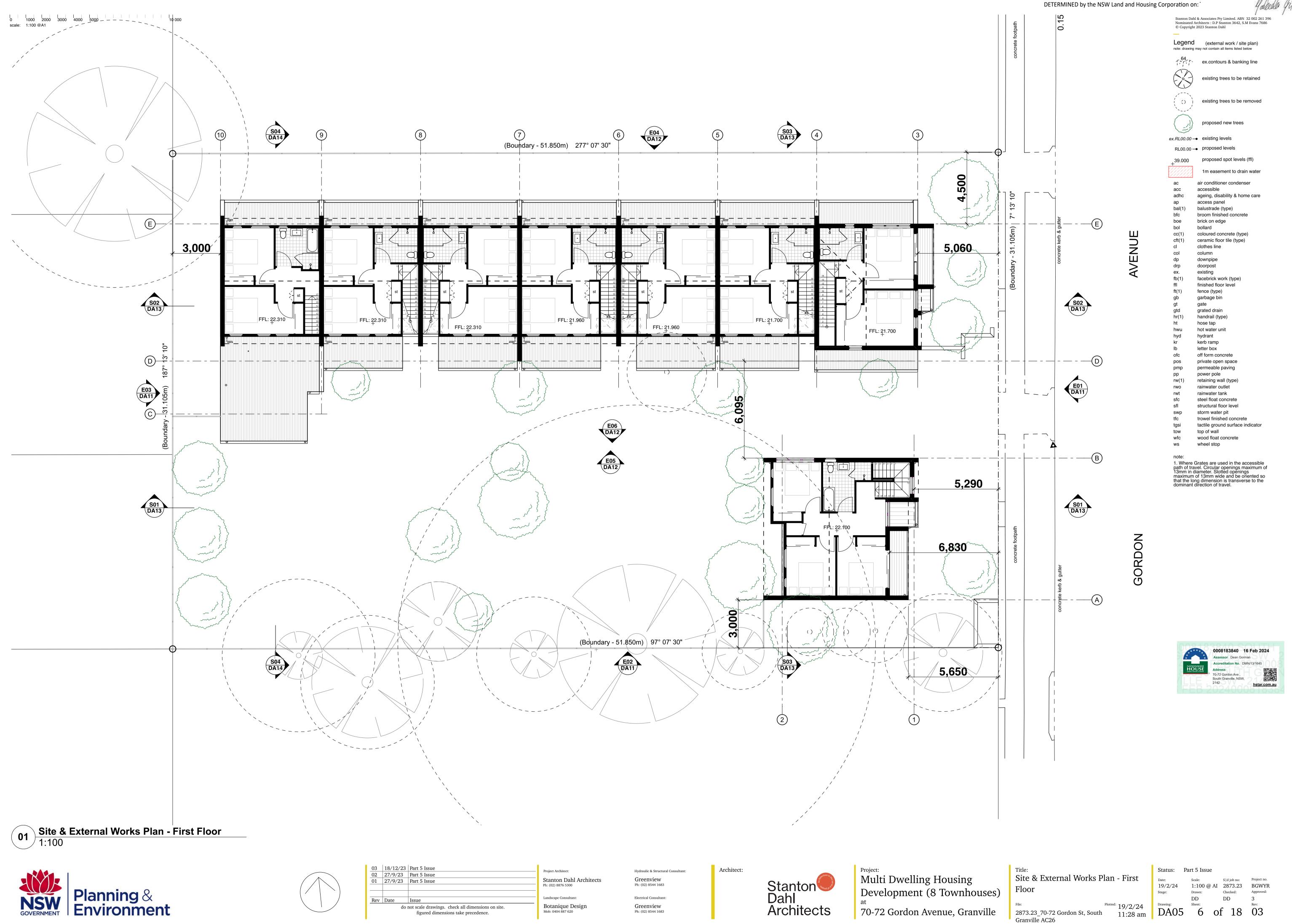




Development (8 Townhouses) 70-72 Gordon Avenue, Granville

2873.23_70-72 Gordon St, South Granville AC26



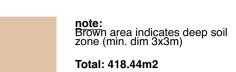


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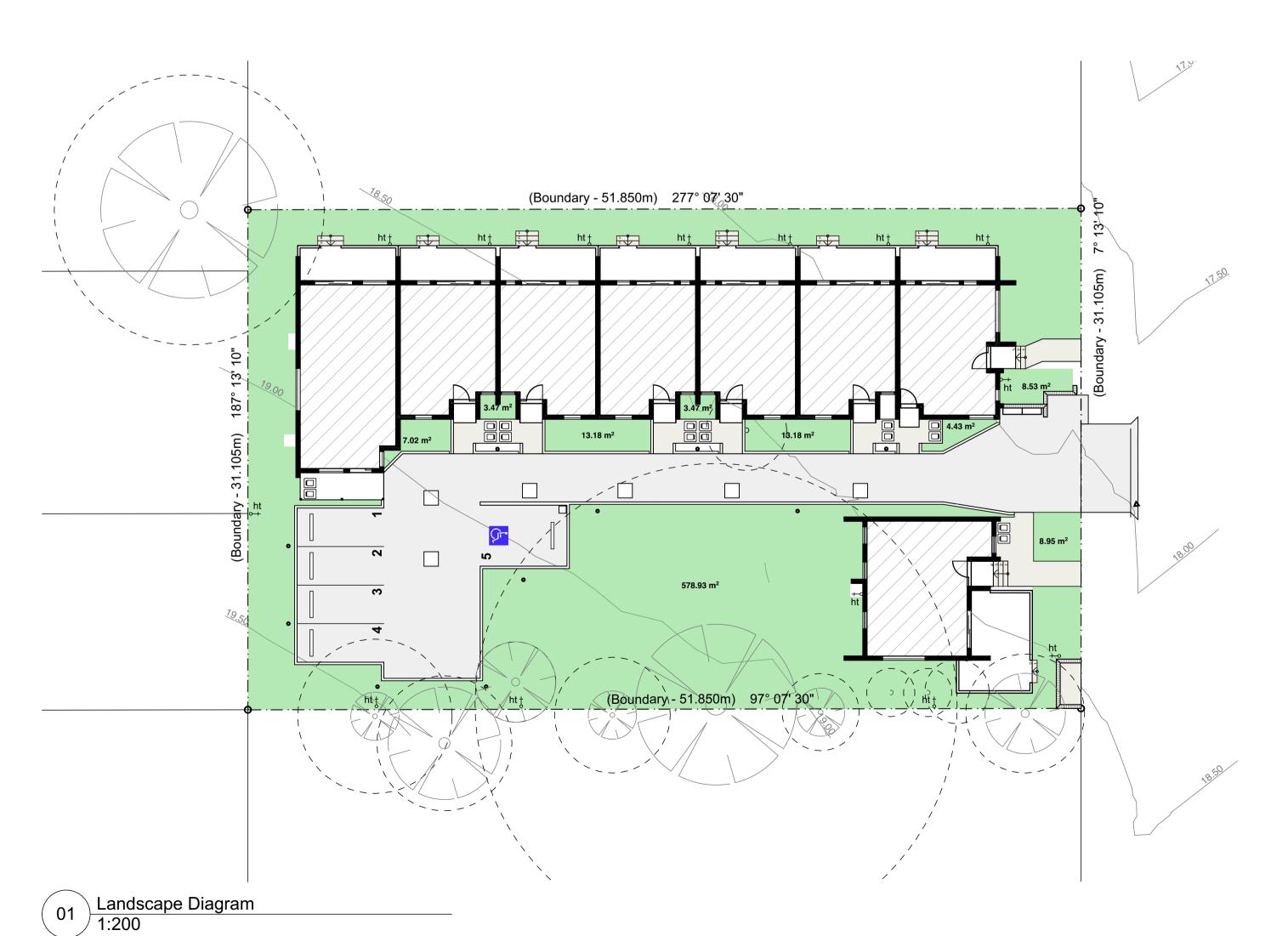
Legend

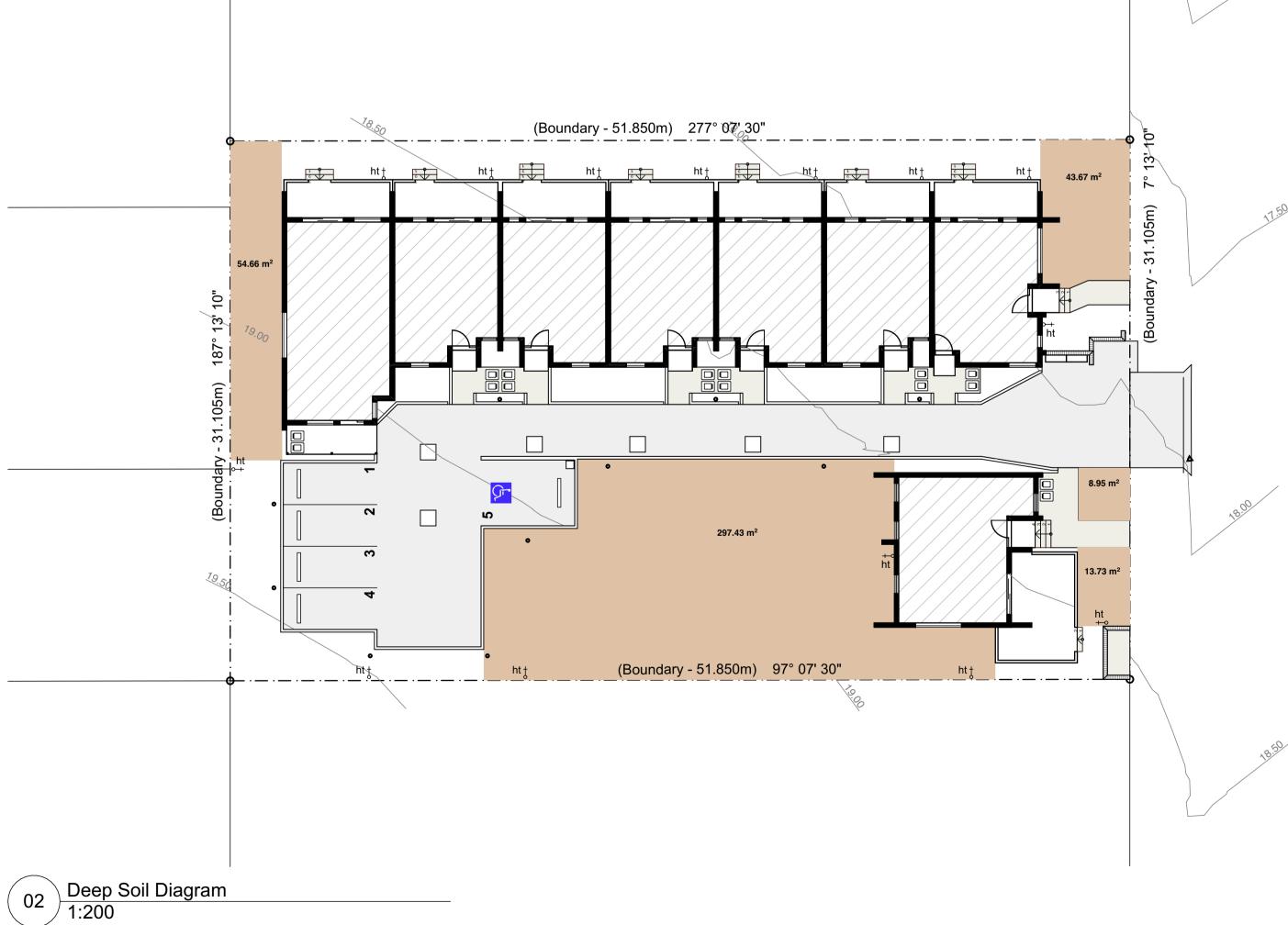
note: drawing may not contain all items listed below

Total: 641.15m2

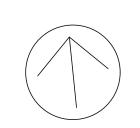


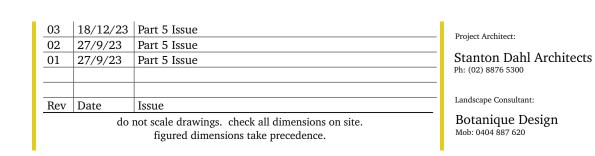






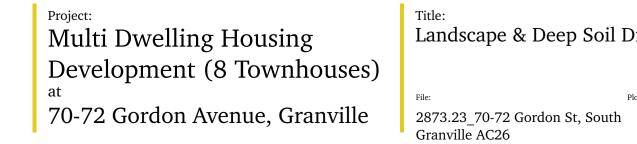












robe

First Floor Plan (Block A)

Ground Floor Plan (Block A)

robe

cpt(1)

Bed 3

robe



flashing metal deck roof sheeting overflow parapet capping

photovoltaic cells roof anchor roof ridge capping rainwater head skylight/skytube tray flashing

valley gutter vertical overflow vent pipe provide flashings and cappings to all roof penetrations in accordance with roof manufacturers details

2. gutter on brackets as specified.
3. roof safety system to be designed by a suitable qualified professional and installed. refer to specification provide gutter-guards to all guttering throughout refer to reference specification for 'group homes' construction adhc

6. gutters, downpipes and flashing must comply with AS/NZ 2179.1 and AS1273 and not contain any lead for potable water supplies. The roof water is not proposed to be used for potable water

used must comply with the following;

(a) sacking-type materials used in the roof must have a flammability index not greater than 5.

(b) flexible ductwork used for the transfer of products initiating from a heat source that contains a flame must comply with the fire hearard properties.

august 2012
5. metal roof sheeting to comply with AS1562.1 supply.

7. down pipe sizes are required to satisfy the requirements of BCA 3.5.2.5

8. the fire hazard properties of materials comply with the fire hazard properties set out in AS4254.

450 roof pitch @ 20° mdr(1) outline of building below -shown dashed ⊢l← outline of roof below outline of building below – shown dashed ¥ 1,200 ¥

Roof Plan (Block A)

GFA	Area
Ground	58.87
First Floor	53.81
	109.68m2

Number	Type*	Beds	Area* (m²)	POS (m2)	
1	General	3	109.68	80.41	
2	General	2	84.85	74.55	
3	General	2	79.93	27.72	
4	General	2	79.93	27.72	
5	General	2	79.93	27.72	
6	General	2	79.93	27.72	
7	General	2	79.93	27.72	
8	General	3	104.32	77.58	
*area = measured to internal face of external wall including internal walls.					
	1 2 3 4 5 6 7 8	1 General 2 General 3 General 4 General 5 General 6 General 7 General 8 General	1 General 3 2 General 2 3 General 2 4 General 2 5 General 2 6 General 2 7 General 2 8 General 3	1 General 3 109.68 2 General 2 84.85 3 General 2 79.93 4 General 2 79.93 5 General 2 79.93 6 General 2 79.93 7 General 2 79.93 8 General 3 104.32	

		External Walls	
Wall Type	Insulation	Colour	Comments
Brick Veneer	R2.5	Med - SA 0.475 - 0.70	As per elevations
FC Sheet	R2.5	Light - SA < 0.475	As per elevations
		Internal Walls	
Wall Type	Insulation		Comments
Plasterboard stud	None		Internally in dwellings
Cavity brick	None		Party walls between dwellings
		Floors	
Floor Type	Insulation		Comments
Waffle pod slab	None		Ground level
Timber	None		Level 1, except as below
Suspended timber	None		Level 1: TH2
Suspended timber	R1.5		Level 1: TH1
		Ceilings	
Ceiling Type	Insulation		Comments
Plasterboard	R3.5		All exposed ceiling (Throughout)
Roof Type	Insulation	Roof Colour	Comments
	R1.8 foil-faced blanket		
Metal	R1.8 foil-faced blanket	Dark - SA > 0.70 SA - Solar Absorptance	All exposed roof (Throughout)
		· · · · · · · · · · · · · · · · · · ·	•
Opening Type	U-Value	Glazing SHGC	Glazing & Frame Type
Sliding + Fixed (Throughout, except TH1)	5.4	0.58	e.g. Single glazed clear Low-e Aluminium frame
Sliding + Fixed (TH1) Awning (Throughout, except TH1)	4.3 5.4	0.53	e.g. Single glazed high performing Low-e Aluminium frame e.g. Single glazed clear Low-e Aluminium frame
<u> </u>	4.3	0.49	
Awning (TH1)	_	-	e.g. Single glazed high performing Low-e Aluminium frame
U and SHGC values are based on the AFR	C Default Windows Set. Glazing	systems to be installed mus values.	t have an equal or lower U value and a SHGC value \pm 10% of the above specified
		Skylights	
Skylights	Frame	Туре	Comments
na	n		na
		Ceiling fans	
Size	Loca	tion	Comments
1200mm diameter	All living areas	s + bedrooms	na

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Legend (floor plans)

note: drawing may not contain all items listed below

door numbers (as scheduled) (prefix ex. for existing door)

window numbers (as scheduled) (prefix ex. for existing window)

wall type (as scheduled)

air conditioner condenser accessible ambulant

ageing, disability & home care access panel balustrade (type) broom finish concrete

bollard broom cupboard ceramic floor tile (type)

control joint clothes line column communication cabinet comms carpet (type)

cpt(1) cooktop downpipe doorpost

electrical distribution box existing fb(1) face brickwork (type) fire hose reel floor mat

feature panel fridge space floor waste garbage bin

grated drain handrail (type) hose tap hwu hot water unit hydrant kerb ramp

letter box linen cupboard microwave off form concrete permeable paving ps privacy screen

pty pantry robe wardrobe retaining wall (type) rainwater tank steel column

steel float concrete shower skylight/skytube sliding door store

stack pipe sheet vinyl (type) storm water pit timber deck tactile ground surface indicators

wood float concrete washing machine space wheel stop

vent pipe

window casing

(window & door schedule)

1. dimensions are typically to wall openings unless noted otherwise.
2. all door/window openings are to be site measured prior to any fabrication of frames.

 check measure against structural layout.
 please read in combination with all other documentation and schedules. plans take priority on door swings.

5. refer any discrepancies to the architect for further information.

6. flyscreens to all operable windows unless specified.
7. door sills and window subsill as specified, and

detailed in sections.

8. all 870 door leaf or greater doors are to be supplied and installed to comply with AS1428.1 disabled access standard.

9. door grilles have not been shown for clarity - refer to mechanical engineer's details.

10.refer to specification for basix/ section j details of all external windows & doors. 11 all existing doors nominated as undercut to be coordinated with mechanical engineer's

documentation. 12.colorbond preformed cover plate to all columns engaged to the glazing systems where necessary. 13.refer to external finishes schedule for metal

cladding.

14.Openable windows: flyscreens and childproof key locks. Capable of being locked in closed position and provide safe ventilation locking points 100mm from closed position

0008183840 16 Feb 2024 70-72 Gordon Ave . South Granville, NSW, hstar.com.au





9,720

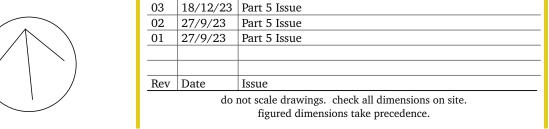
TH01 GF A: 55.87 m²

FFL: 19.000 FSL: <u>1</u>8.980

Living

ex.18.830

FFL: 18.850 7 Patfo



S01 DA13

R = 150t G = 300

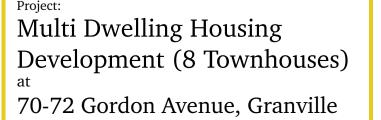
ex.18.53

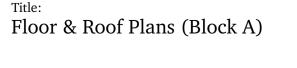




Ph: (02) 8544 1683







Granville AC26

Stanton Dahl & Associates Pty Limited. ABN 32 002 261 396

Legend (floor plans)

note: drawing may not contain all items listed below

window numbers (as scheduled) (prefix ex. for existing window)

ambulant access panel

broom cupboard

control joint

clothes line column

carpet (type)

downpipe doorpost

existing

floor mat feature panel fridge space

floor waste garbage bin

hose tap

hot water unit hydrant kerb ramp letter box

off form concrete permeable paving

steel float concrete shower skylight/skytube

stack pipe sheet vinyl (type) storm water pit

vent pipe wood float concrete

wheel stop window casing

note:

1. dimensions are typically to wall openings unless noted otherwise.

2. all door/window openings are to be site measured prior to any fabrication of frames.

3. check measure against structural layout.

4. please read in combination with all other documentation and schedules, plans take priority.

documentation and schedules. plans take priority

9. door grilles have not been shown for clarity - refer

all external windows & doors.

11.all existing doors nominated as undercut to be coordinated with mechanical engineer's documentation.

engaged to the glazing systems where necessary. 13.refer to external finishes schedule for metal

door numbers (as scheduled) (prefix ex. for existing door)

Nominated Architects: D.P Stanton 3642, S.M Evans 7686

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wall type (as scheduled)

air conditioner condenser

acc accessible

ageing, disability & home care amb

balustrade (type) broom finish concrete

ceramic floor tile (type)

communication cabinet cpt(1)

cooktop electrical distribution box

ex. fb(1) face brickwork (type) fire hose reel

grated drain handrail (type) ht

linen cupboard microwave

pty robe wardrobe retaining wall (type) steel column

sliding door store

timber deck tactile ground surface indicators

washing machine space WS

(window & door schedule)

on door swings.

5. refer any discrepancies to the architect for further information.

6. flyscreens to all operable windows unless specified.

7. door sills and window subsill as specified, and detailed in sections.

detailed in sections.

8. all 870 door leaf or greater doors are to be supplied and installed to comply with AS1428.1 disabled access standard.

to mechanical engineer's details.

10.refer to specification for basix/ section j details of

12.colorbond preformed cover plate to all columns

cladding.

14.Openable windows: flyscreens and childproof key locks. Capable of being locked in closed position and provide safe ventilation locking points 100mm from closed position

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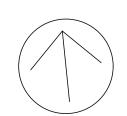
	7	6,345		6,220	<u> </u>	6,220		6,220	6	,220	6,220		6,345				
	; *	,	i 		i		i	44,790	i	i		i -		; 			
	250 <u>/</u>	5,960	ا <u>270 برا</u>	5,950	ا مربر <u>270</u>	5,950	ا پېر <u>270</u>	5,950	270 J.J. 5,9	ا بر 270 <u>50</u>	5,950 5,950	ا بربر 27 0	7,210	 			
ex.18.8	step free threshold to comply with AS1428.1 ex.18.86 ex.18.86 ac	S04 DA14 G = 300 FFL: 19.135 CI(3) FFL: 19.175 CC(1) FFL: 19.210 Dining TH08 GF Cft(1) FFL: 19.210 FFL: 19.210	swp: 18.560 ht ft(3) prwo dp	Patio rwo bfc cc(1) FFL: 19.060 LHA Silver TH07 GF party wall to extend beyond roof Living sheeting FRI 60/60/60 FFL: 19.210 FSL: 19.190	ex.18.36 ex.18.36 ex.18.36 ft(3) -1 ft(3) -1 sti 14	R = 165 G = 300 bal(1) Patio of cc(1) FFL: 19.060 LHA Silver TH06 GF A: 44.87 m ² Living cft(1) FFL: 19.210 FSL: 19.190	swp: 18,300 ht ft(3) -1 10p 0 ag (hwu)	5,950 dary - 51.850m) 277° 07' 3 R = 154 ex.G = 300 Patio rwo bfc cc(1) FFL: 18.680 Cl(3) Patio rwo bff cc(1) FFL: 18.710 LHA Silver TH05 GF to extend beyond roof Living sheeting FRI 60/60/60 FSL: 18.860 FSL: 18.860 FSL: 18.840	0" Ax. 18.071 Cl(3) F Cl(3) F	Patio rwo ac bfc cc(1) FL: 18.680 rwo ac bfc cc(1) FL: 18.710 A Silver 104 GF 44.87 m ² iving cft(1) :: 18.860 :: 18.840	R = 167 ex. G = 300 DA DA DA DA DA DA DA	3 13 17.870 ht 3 2 3 Cl(3) ft(3) 2 3 Cl(3) ft(3) 2 3 5 5 7 7 8 8 8 8 9 9 12 13 13 14 13 13 14 13 14 14 15 16 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7,210 R = 153 G = 300 bal(1) FFL: 18.420 Patio rwo bfc cc(1) FFL: 18.450 LHA Silver TH02 GF A: 46.25 m² Living cft(1) FFL: 18.580 FSL: 18.580	ex.17.778 ex.17.778 ex.17.778	180	4 005, 4,000 250,4	- L E
3,325	S02 DA13 ex.18.957 19.007 90x90 powder coated column	Bed 1 cpt(1) min 1,240 clear width from skirting to skirting to skirting robe Bath cft(2) FFL: 19.115 bfc cc(1) FFL: 19.115 dp 19.195	pty St 13 Qp 19 210 FFL: 19.160 19.110 19.110	continuous handrail Dining cft(1) Kit brmnbn FFL:19:310 bfc cc(1) 19:100 19:100 19:100 19:100 19:100 19:100	19.005 19 19.005 19	continuous handrail party wall to extend beyond roof sheeting FR 60/60/60 bfc cc(1) 19.110 19.080 18.960 19.080	dp 18.6 exisit dashe	continuous handrail Dining cft(1) FFL:18.460 bfc cc(1) Reserved Break to the served to the ser	continuou handrail party wall to extend beyond ro sheeting FRL 60/60/60 B 660 B 70	of cft(1)	continuous handrail party was to extensive t	1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	Dining cft(1) continuous handrail st pty Kit 8.475 18.400	FFL: 17.880	S02 DA13	300, 1,400 \$ 1,925, 700, 1,940 \$ 1,400 \$	3,325
	250	5,210	بر ^{1,020} بر	3,310 + 1,400	250 270 ** 990 ** 9	90 / / 1,400 /	6,8	90 + 1,400 + + 44,790	990 1 990 1 1,400 1	6,8	90 + 1,400	250 250 1,220 1,220 1	5,010	225 7775 7			
	\ *	6,345	+	6,220	 	6,220	+	6,220	6	,220	6,220	 	6,345				
	(10	6)	9		(8)		(7		(6)	(5	5)	$\stackrel{\downarrow}{\cancel{4}}$		$\stackrel{\downarrow}{(3)}$			
		>					Ċ		\bigcirc	G				\bigcirc			

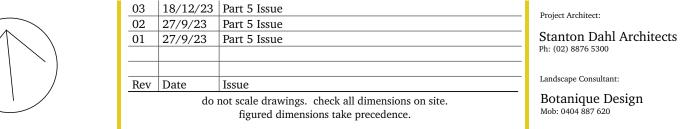
GFA Area 337.34

Ground Floor Plan (Block B)

251.49 588.83m2

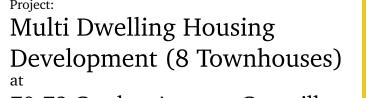
Number	Type*	Beds	Area* (m ²)	POS (m2)
1	General	3	109.68	80.41
2	General	2	84.85	74.55
3	General	2	79.93	27.72
4	General	2	79.93	27.72
5	General	2	79.93	27.72
6	General	2	79.93	27.72
7	General	2	79.93	27.72
8	General	3	104.32	77.58
	1 2 3 4 5 6 7	1 General 2 General 3 General 4 General 5 General 6 General 7 General	1 General 3 2 General 2 3 General 2 4 General 2 5 General 2 6 General 2 7 General 2	1 General 3 109.68 2 General 2 84.85 3 General 2 79.93 4 General 2 79.93 5 General 2 79.93 6 General 2 79.93 7 General 2 79.93

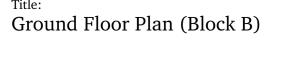












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door numbers (as scheduled) (prefix ex. for existing door)

window numbers (as scheduled) (prefix ex. for existing window)

wall type (as scheduled)

air conditioner condenser accessible acc

ageing, disability & home care

amb ambulant access panel

balustrade (type) broom finish concrete

broom cupboard

ceramic floor tile (type) control joint

clothes line column

communication cabinet carpet (type) cpt(1)

cooktop downpipe

doorpost electrical distribution box ex. existing

face brickwork (type)

fire hose reel floor mat feature panel

fb(1)

snk

fridge space floor waste garbage bin

grated drain handrail (type) hose tap

hot water unit hydrant kerb ramp letter box

linen cupboard microwave off form concrete permeable paving

pty robe wardrobe retaining wall (type) rainwater tank

> steel column steel float concrete shower skylight/skytube sliding door

store stack pipe sheet vinyl (type) storm water pit

timber deck

tactile ground surface indicators vent pipe wood float concrete washing machine space

wheel stop window casing

ws

(window & door schedule)

note:
 dimensions are typically to wall openings unless noted otherwise.
 all door/window openings are to be site measured prior to any fabrication of frames.
 check measure against structural layout.
 please read in combination with all other documentation and schedules, plans take priority.

documentation and schedules. plans take priority

on door swings.

5. refer any discrepancies to the architect for further information.

6. flyscreens to all operable windows unless specified.

7. door sills and window subsill as specified, and detailed in sections.

detailed in sections.

8. all 870 door leaf or greater doors are to be supplied and installed to comply with AS1428.1 disabled access standard.

9. door grilles have not been shown for clarity - refer to mechanical engineer's details.

10.refer to specification for basix/ section j details of all external windows & doors.

11.all existing doors nominated as undercut to be coordinated with mechanical engineer's

documentation. 12.colorbond preformed cover plate to all columns engaged to the glazing systems where necessary. 13.refer to external finishes schedule for metal

cladding.

14.Openable windows: flyscreens and childproof key locks. Capable of being locked in closed position and provide safe ventilation locking points 100mm from closed position

	6,345	6,220	6,220	6,220	6,220	6,220	6,345	3	
	250 _{y-y} 5,960	270 pp 5,950	270 y 5,950	270 5,950	270 μγ 5,950	270 pp 5,950	270 yry 7,210		
	SODA	4					S03 DA13		
E+	eg - raked roof pitch of parapet 20° mdr(1	dpdp eg @ raked roof pitch @ 20° mdr(1)	eg raked roof pitch @ 20° mdr(1)	dpdp eg - raked roof pitch @ 20° mdr(1)	eg raked roof pitch @ 20° mdr(1)	dpdp eg raked roof pitch @ parapet 20° mdr(1)	eg raked roof pitch @ 20° mdr(1)		\
170	Bed 3 cpt(1)	Bath cft(2) hobless cpt(1) party wall to extend beyond roof sheeting FBL 60/60/60	hobless hobless Bath cft(2) pontinuous handrail	Bed 2 cpt(1) party wall to extend beyond roof sheeting FRI 60/60/60	hobless hobless Bath cft(2) It is hardrail It is hardrail Bath continuous handrail	Bed 2 cpt(1) party wall to extend beyond roof sheeting FRI 60/60/60	ontinuous handrail	Bed 2 cpt(1) dp dp	250 3,570 250
8,610 15,135	TH08 GF A: 37.54 m ² Bed 2 cpt(1) FFL: 22.	TH07 GF A: 35.05 m ² Bed 1 cpt(1) FFL: 22.5	party wall to extend to u/s	06 GF TH05 GF	party wall to extend to u/si	4 GF TH03 GF .05 m ² A: 35.05 m ²	st 11 11 st st party wall to extend to u/side	Bed 1 (S02) DA13	940 25044 1,400 44 15,135
D	ra lat	raked parapet \rightarrow roof pitch @ \equiv dp eg	roof pitch (@ = 20° mdr(1)	raked	eg	role of I. I.	roof pitch @ = 20° mdr(1) dp	300x50 powder coated pergola beam to enclose entry awning	
C	vp roof pitch (12° mdr(1	dp							
	dp eg	dp							
	1 								
	250 5,960	270 5,950	270 5,950	270	270 J 5,950	270 1 1 1	6,710	 	
	/ 6,345	6,220	6,220	6,220	6,220	6,220	6,345	 	

6

5

GFA

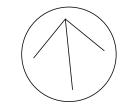
First Floor Plan (Block B)

Area 337.34 251.49 588.83m2

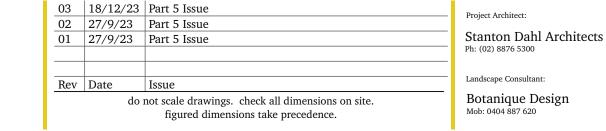
DWELLING	Number	Type*	Beds	Area* (m ²)	POS (m2)				
AREAS	1	General	3	109.68	80.41				
	2	General	2	84.85	74.55				
	3	General	2	79.93	27.72				
	4	General	2	79.93	27.72				
	5	General	2	79.93	27.72				
	6	General	2	79.93	27.72				
	7	General	2	79.93	27.72				
	8	General	3	104.32	77.58				
	*area = measured to internal face of external wall including internal walls.								







9



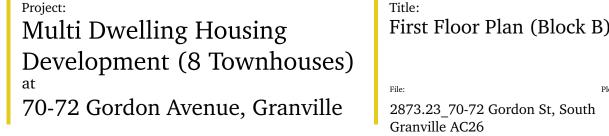
8

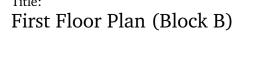
7





4





Status: Part 5 Issue

Stanton Dahl & Associates Pty Limited. ABN 32 002 261 396 Nominated Architects: D.P Stanton 3642, S.M Evans 7686

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Legend (roof plans) note: drawing may not contain all items listed below access panel barge capping downpipe eaves gutter existing flashing gutter

metal deck roof sheeting overflow parapet capping photovoltaic cells roof anchor roof ridge capping rainwater head skylight/skytube tray flashing valley gutter

 provide flashings and cappings to all roof penetrations in accordance with roof manufacturers details 2. gutter on brackets as specified.
3. roof safety system to be designed by a suitable qualified professional and installed, refer to specification installed. refer to specification
4. provide gutter-guards to all guttering throughout refer to reference specification for 'group homes' construction adhout august 2012
5. metal roof sheeting to comply with AS1562.1
6. gutters, downpipes and flashing must comply with AS/NZ 2179.1 and AS1273 and not contain any lead for potable water supplies. The roof water is not proposed to be used for potable water

vertical overflow vent pipe

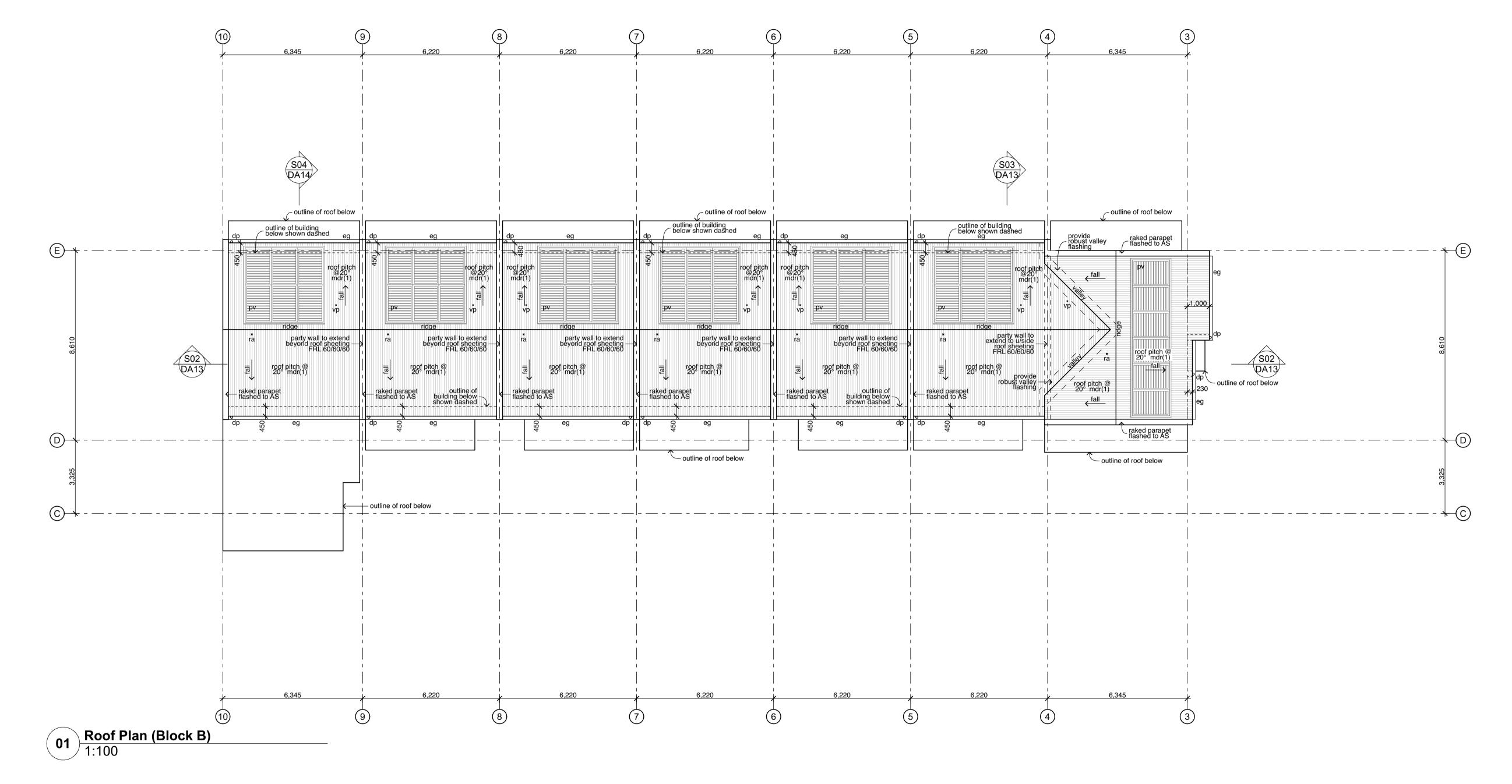
proposed to be used for potable water supply.

7. down pipe sizes are required to satisfy the requirements of BCA 3.5.2.5

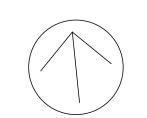
8. the fire hazard properties of materials used must comply with the following;

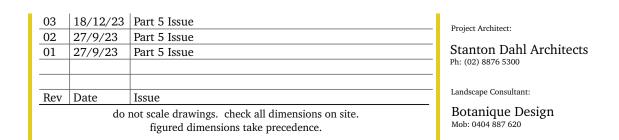
(a) sacking-type materials used in the roof must have a flammability index not greater than 5.

(b) flexible ductwork used for the transfer of products initiating from a heat source that contains a flame must comply with the fire hazard properties set out in AS4254. proposed to be used for potable water



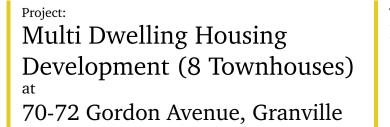


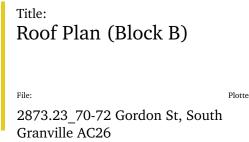
















(elevation & sections)

air conditioner condenser

aluminium framed window

ag pipe

balustrade (type) barge capping box gutter

brick header course



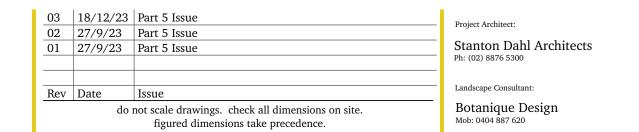


South Elevation



West Elevation







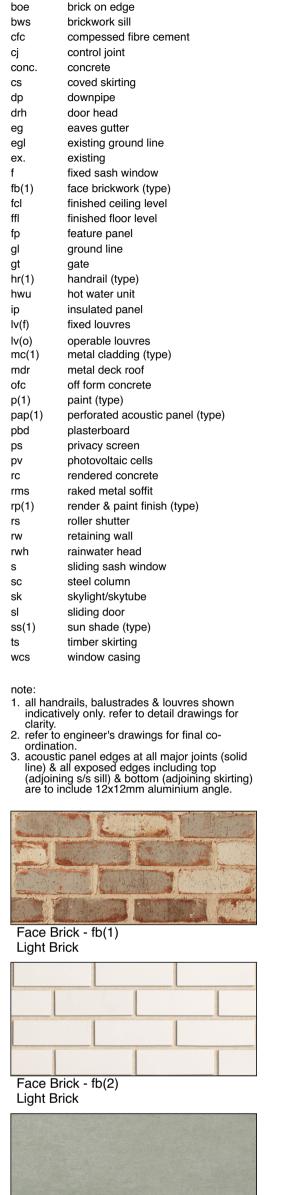


Project:
Multi Dwelling Housing Development (8 Townhouses) 70-72 Gordon Avenue, Granville

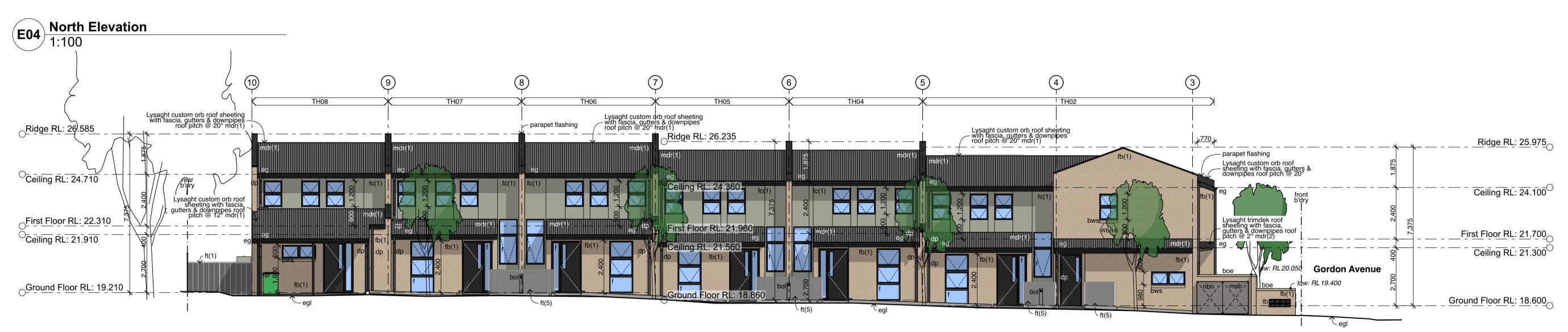
Title: Elevations

2873.23_70-72 Gordon St, South Granville AC26

hstar.com.au









O008183840 16 Feb 2024

Assessor Dean Gorman

Accreditation No. DMN/13/1645

Address
70-72 Gordon Ave ,
South Granville, NSW,
2142

hstar.com.au

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

(elevation & sections) air conditioner condenser ag pipe aluminium framed window balustrade (type) box gutter brick header course brick on edge brickwork sill compessed fibre cement control joint concrete coved skirting downpipe door head eaves gutter existing ground line fixed sash window face brickwork (type) finished ceiling level finished floor level feature panel ground line handrail (type) hot water unit insulated panel fixed louvres operable louvres metal cladding (type) metal deck roof off form concrete paint (type) perforated acoustic panel (type) privacy screen photovoltaic cells rendered concrete raked metal soffit render & paint finish (type) roller shutter retaining wall rainwater head steel column skylight/skytube sliding door

all handrails, balustrades & louvres shown indicatively only. refer to detail drawings for clarity.
 refer to engineer's drawings for final coordination.
 acoustic panel edges at all major joints (solid line) & all exposed edges including top (adjoining s/s sill) & bottom (adjoining skirting) are to include 12x12mm aluminium angle.

sun shade (type)

timber skirting

window casing



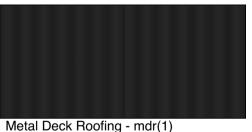
Face Brick - fb(1)



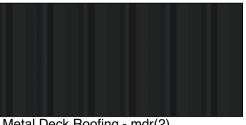
Face Brick - fb(2) Light Brick



Fibre Cement Sheet - fc(1) Light Grey



Dark Grey

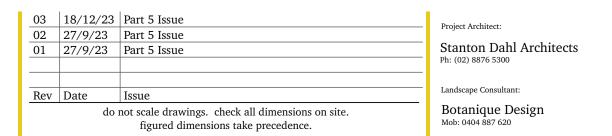


Metal Deck Roofing - mdr(2) Dark Grey



North Elevation (Block A)







Architect:



Multi Dwelling Housing
Development (8 Townhouses)

at
70-72 Gordon Avenue, Granville

Title:
Elevations

File: Plotted:
2873.23_70-72 Gordon St, South
Granville AC26

Status:	Part 5 Issue	
Date: 19/2/24	Scale: 1:100 @ AI	S d job no: 2873.23
Stage:	Drawn:	Checked:
	DD	DD
Danas da as	Ch+-	

DD DD 3
Sheet: A12 13 of 18 C



(elevation & sections) air conditioner condenser ag pipe aluminium framed window balustrade (type) barge capping box gutter brick header course brick on edge brickwork sill compessed fibre cemen control joint concrete coved skirting downpipe door head eaves gutter existing ground line existing fixed sash window face brickwork (type) finished ceiling level finished floor level feature panel ground line handrail (type) hot water unit insulated panel fixed louvres operable louvres metal cladding (type) metal deck roof off form concrete paint (type) perforated acoustic panel (type) privacy screen photovoltaic cells rendered concrete raked metal soffit render & paint finish (type) roller shutter

Nominated Architects : D.P Stanton 3642, S.M Evans 7686 © Copyright 2023 Stanton Dahl

window casing 1. all handrails, balustrades & louvres shown indicatively only. refer to detail drawings for 2. refer to engineer's drawings for final co-acoustic panel edges at all major joints (solid line) & all exposed edges including top (adjoining s/s sill) & bottom (adjoining skirting) are to include 12x12mm aluminium angle.

retaining wall rainwater head

steel column skylight/skytube sliding door sun shade (type)

timber skirting

Face Brick - fb(1)

Face Brick - fb(2) Light Brick

Fibre Cement Sheet - fc(1) Light Grey

Metal Deck Roofing - mdr(1)

Dark Grey

Metal Deck Roofing - mdr(2)

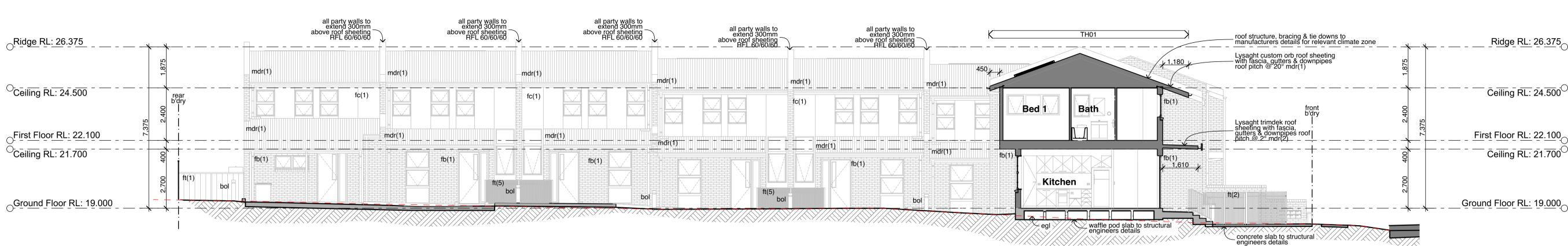
Dark Grey

Roof Capping & Flashing, Fascia, Gutters, Downpipes, Window & Door Frames, Boundary & Intertenancy Fences, Awnings &

Title: Sections

Part 5 Issue 19/2/24

Dark Grey



Block A Section (East - West)

1000 2000 3000 4000 5000

scale: 1:100 @A1

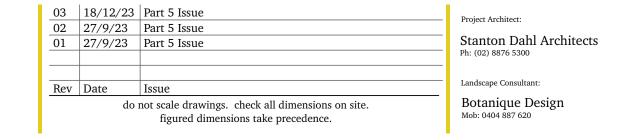
Lysaght custom orb roof sheeting with fascia, gutters & downpipes roof pitch @ 20° mdr(1) roof structure, bracing & tie downs to manufacturers details for relevant climate one parapet capping & flashing to AS standards parapet capping & flashing to AS standards roof structure, bracing & tie downs to manufacturers details for relevant climate one Ridge RL: 26.185 Ridge RL: 25.835 Ridge RL: 25.665 mdr(1) mdr(1) (01 (A320) ○ceiling RL: 24.710 Ceiling RL: 24.360 Ceiling RL: 24.100 ty walls to extend 300mm Bed 1 Bed 1 party walls to extend 300mm above roof sheeting RFL 60/60/60 Bed 1 First Floor RL: 22.310 _First Floor RL: 21.960 First Floor RL: 21.700 Ceiling RL: 21.910 Ceiling RL: 21.560 Ceiling RL: 21.300 Kitchen / Dining Kitchen / Dining ft(1) Kitchen / Dining Ground Floor RL: 19.210 Ground Floor RL: 18.600 waffle pod slab to structural engineers details concrete slab to structural engineers details

Block B Section (East - West)

© all roof structure, bracing & tie downs to manufacturers details for relevant climate zone Lysaght custom orb roof sheeting - with fascia, gutters & downpipes roof pitch @ 20° mdr(1) 02 A320 all roof structure, bracing & tie downs to manufacturers details for relevant climate zone Lysaght custom orb roof sheeting with fascia, gutters & downpipes roof pitch @ 20° mdr(1) Ridge RL: 26.375 Ridge RL: 25.975 Ceiling RL: 24.500 Oceiling RL: 24.100 Bed 2 Lysaght|custom orb roof sheeting with fascia, gutters & downpipes roof pitch @ 20° mdr(1) First Floor RL: 22.100 First Floor RL: 21.700 Ceiling RL: 21.700 Oceiling RL: 21.300 Kitchen Living/Dining ft(3) Ground Floor RL: 19.000 Ground Floor RL: 18.600 waffle pod slab to structural engineers details concrete slab to structural engineers details concrete slab to structural engineers details 0008183840 16 Feb 2024

Block A & B Section (North - South)









70-72 Gordon Ave , South Granville, NSW, 2142

hstar.com.au



(elevation & sections)

Legend note: drawing may not contain all items listed below air conditioner condenser ag pipe aluminium framed window balustrade (type) barge capping box gutter brick header course brick on edge brickwork sill compessed fibre cement control joint concrete coved skirting Ceiling RL: 24.710 downpipe door head eaves gutter existing ground line existing fixed sash window face brickwork (type) Ceiling RL: 21.910 finished ceiling level finished floor level feature panel ground line handrail (type) hot water unit insulated panel fixed louvres operable louvres metal cladding (type) metal deck roof off form concrete p(1) paint (type) perforated acoustic panel (type)

> timber skirting window casing 1. all handrails, balustrades & louvres shown indicatively only. refer to detail drawings for clarity.
>
> 2. refer to engineer's drawings for final coordination.
>
> 3. acoustic panel edges at all major joints (solid line) & all exposed edges including top (adjoining s/s sill) & bottom (adjoining skirting) are to include 12x12mm aluminium angle.

plasterboard

roller shutter retaining wall rainwater head sliding sash window steel column skylight/skytube sliding door sun shade (type)

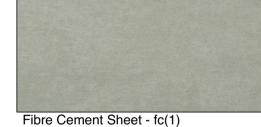
privacy screen photovoltaic cells rendered concrete raked metal soffit render & paint finish (type)



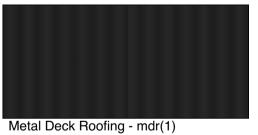
Face Brick - fb(1)

0.580.0404.0130	and an income to the second of the	

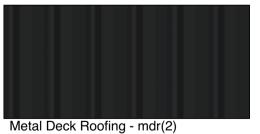
Face Brick - fb(2) Light Brick



Light Grey



Dark Grey

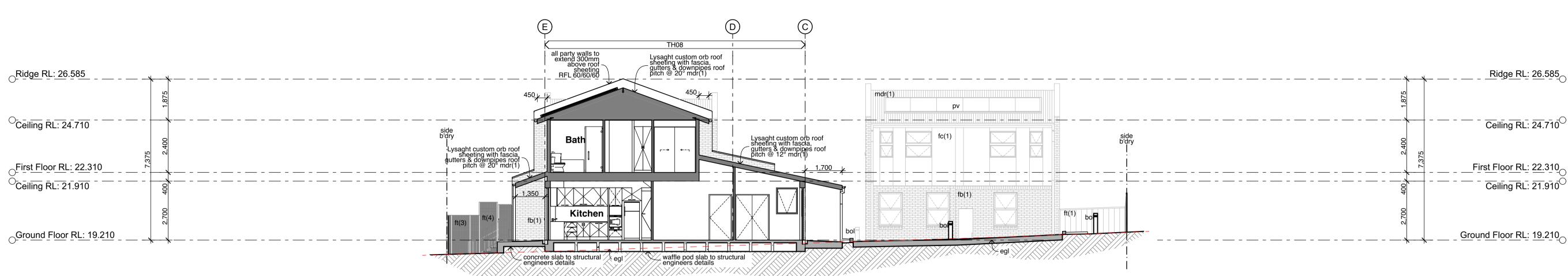


Dark Grey

Dark Grey



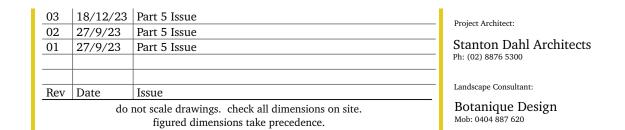




S04 Block B Section (North - South)
1:100

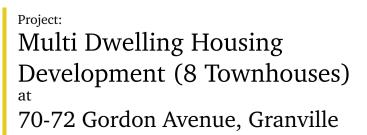
scale: 1:100 @A1











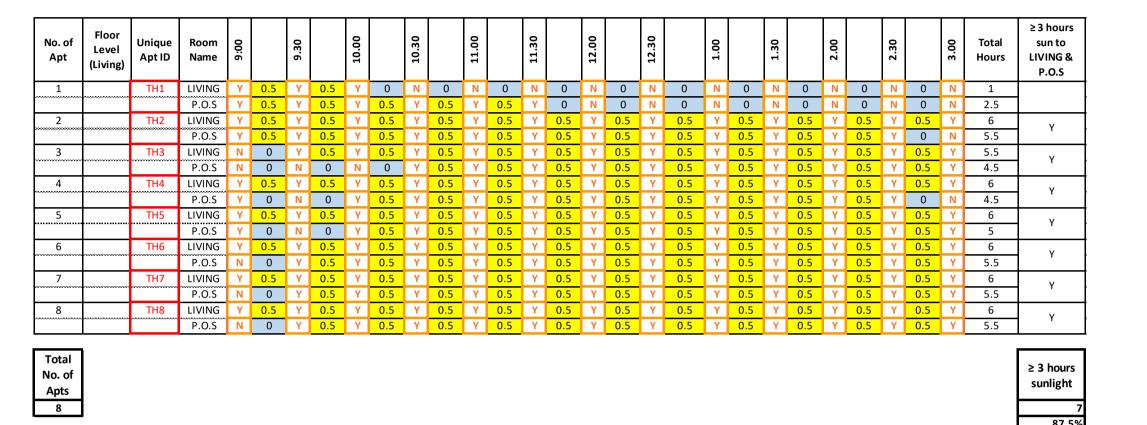
Stanton Dahl & Associates Pty Limited. ABN 32 002 261 396 Nominated Architects: D.P Stanton 3642, S.M Evans 7686 © Copyright 2023 Stanton Dahl

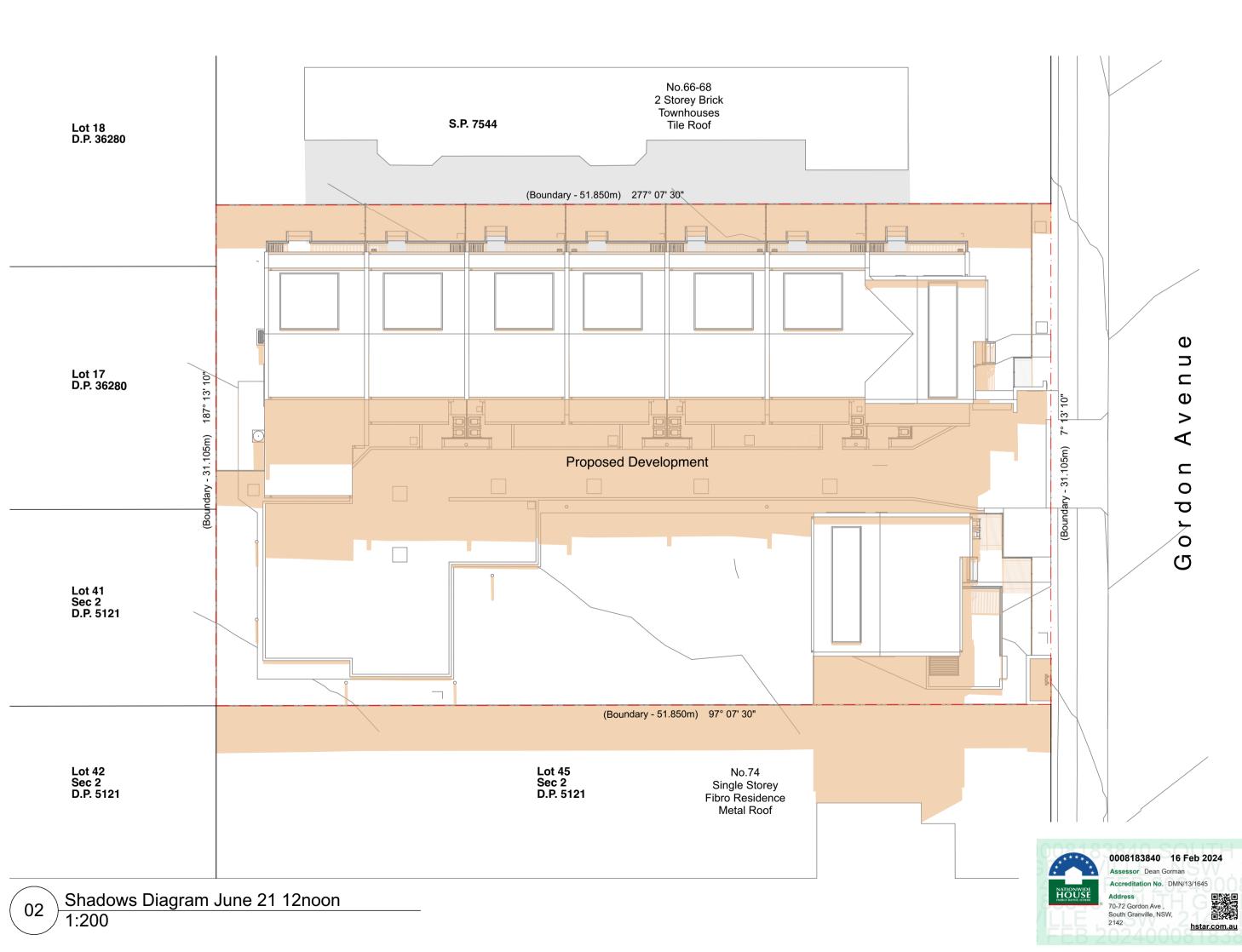
Legend shadow diagrams note: drawing may not contain all items listed below

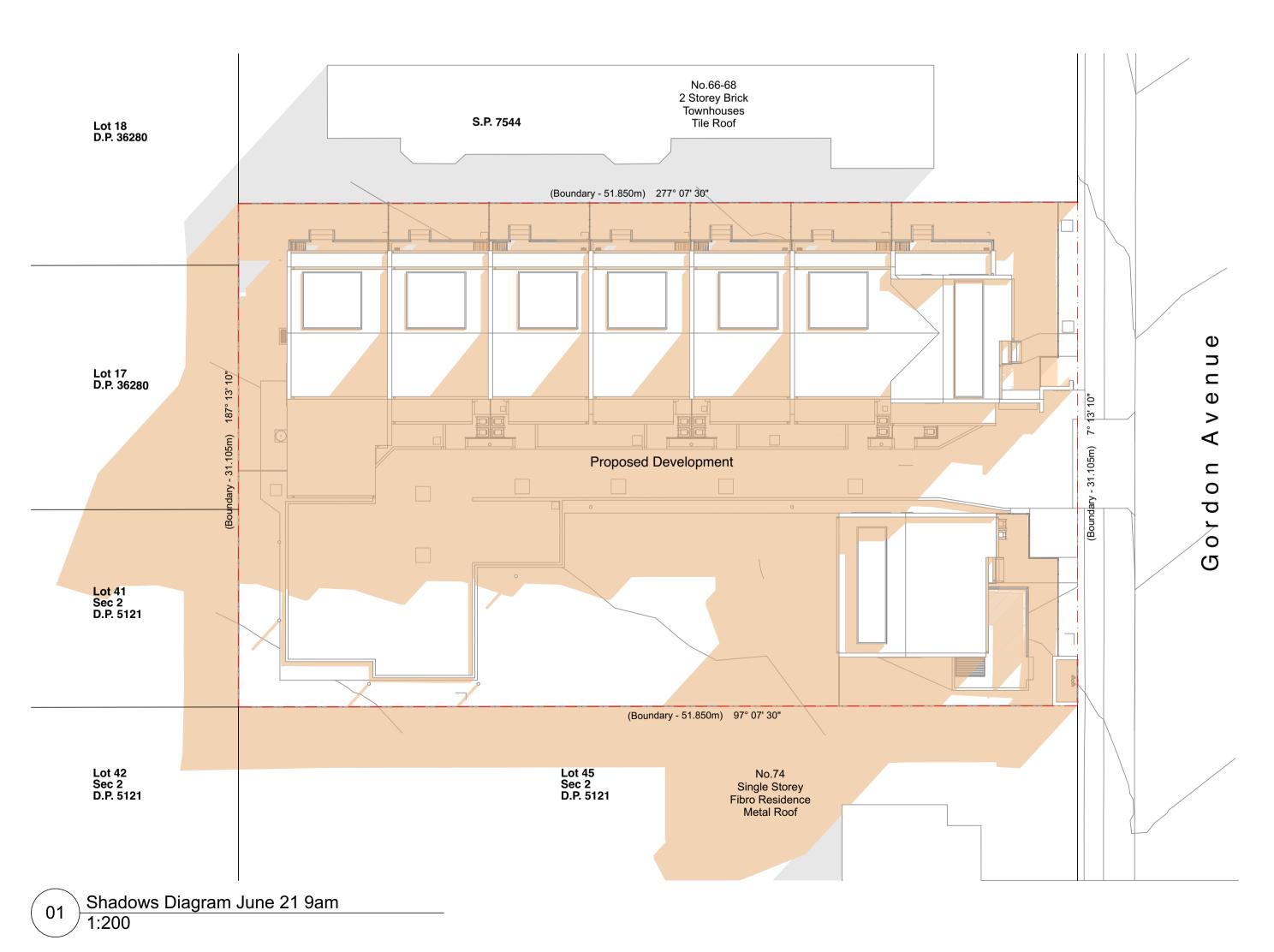
note: shadows cast: proposed buildings

> note: shadows cast: existing neighbour

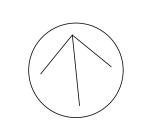
_ · _ · site boundaries

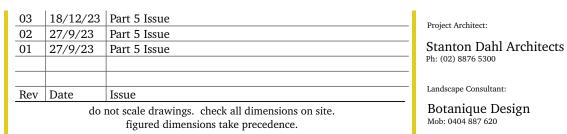
















Multi Dwelling Housing
Development (8 Townhouses)
at
70-72 Gordon Avenue, Granville

Title:
Shadow Diagrams (Sht 1)

File:

2873.23_70-72 Gordon St, South
Granville AC26

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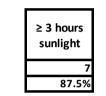
Legend shadow diagrams note: drawing may not contain all items listed below

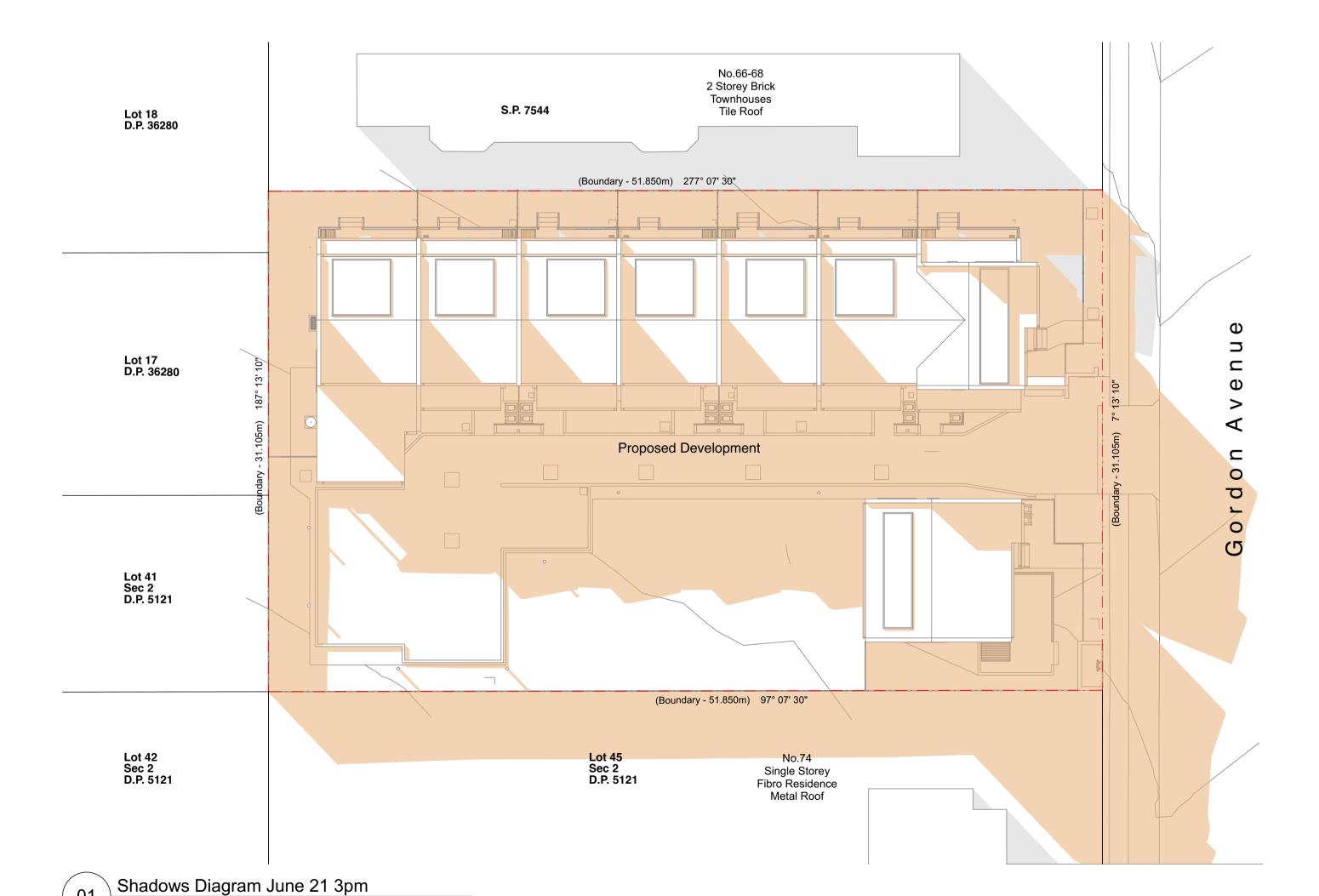
note: shadows cast: proposed buildings

note: shadows cast: existing neighbour

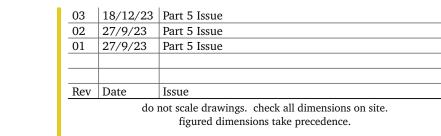
Floor Level (Living) Unique Room Apt ID Name Total sun to LIVING & P.O.S P.O.S Y 0.5 LIVING Y 0.5 X 0.5 LIVING N 0 Y 0.5 Y P.O.S N O N O N O Y O.5 LIVING Y 0.5 P.O.S Y 0 N 0 Y 0.5 X 0. LIVING Y 0.5 P.O.S Y 0 N 0 Y 0.5 Y 0.5 Y 0.5 Y 0.5 Y 0.5 Y 0.5 Y 5 LIVING Y 0.5 P.O.S N 0 Y 0.5 Y LIVING Y 0.5 P.O.S N 0 Y 0.5 Y

No. of Apts











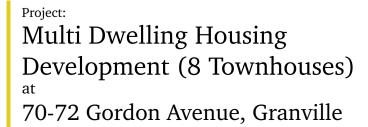


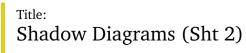
Greenview

Greenview

Ph: (02) 8544 1683







hstar.com.au

External Colour Selection 70-72 Gordon Avenue, Granville, NSW



Face Brick - fb(1) Light Brick



Face Brick - fb(2) Light Brick



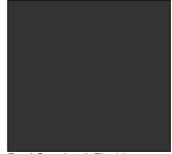
Fibre Cement Sheet - fc(1) Light Grey



Metal Deck Roofing - mdr(1)
Dark Grey



Metal Deck Roofing - mdr(2)
Dark Grey



Roof Capping & Flashing, Fascia, Gutters, Downpipes, Window & Door Frames, Boundary & Intertenancy Fences, Awnings & Columns Dark Grey



Part 5

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All dimensions to be verified on site and any discrepancies referred to architect for determination. figured dimensions to take precedence over scaled dimensions.

LAHC, Multi Dwelling Housing Development (8 Townhouses) 70-72 Gordon Avenue, Granville, NSW

External Colour Selection

Project No; BGWYR

Drawing No; Revision#; DA17 03

Scale; as noted @ A3

Drawn; DD

Plot date; 27/9/23

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

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Rev	Issue	Date
01	Part 5 Issue	27/9/23
02	Part 5 Issue	27/9/23
03	Part 5 Issue	18/12/23



Legend

Legend (external work / site plan)
note: drawing may not contain all items listed below

ex.contours & banking line

existing trees to be retained

existing trees to be removed

proposed new trees

proposed spot levels (ffl)

ageing, disability & home care

air conditioner condenser

broom finished concrete

coloured concrete (type)

ceramic floor tile (type)

facebrick work (type) finished floor level fence (type)

ex.RL00.00 → existing levels RL00.00 → proposed levels

accessible

access panel

brick on edge

clothes line

downpipe doorpost existing

garbage bin

grated drain

hot water unit hydrant kerb ramp letter box off form concrete private open space

permeable paving

retaining wall (type) rainwater outlet

steel float concrete

structural floor level

trowel finished concrete tactile ground surface indicator

rainwater tank

storm water pit

top of wall wood float concrete

wheel stop

power pole

handrail (type) hose tap

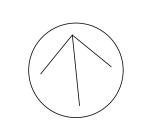
balustrade (type)

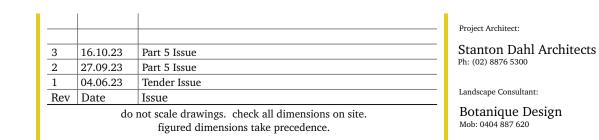


Code	Botanical Name	Common Name	Height	Quantity	Pot Size	Stake
TREES						
Ere	Elaeocarpus reticulatis	Blueberry Ash	12 x 5m	4	75L	Y
Lin	Lagerstroemia indica 'Natchez'	Crepe Myrtle	4 x 3m	7	75L	Y
Pcn	Prunus cerasifera 'Nigra'	Black Cherry Plum	5 x 4m	5	75L	Y
Tla	Tristaniopsis laurina	Kanooka Gum	8 x 5m	3	75L	Y
SHRUBS	3					
Asm	Acmena smithii 'Minor'	Lilly-pilly	3 x 2m	154	300mm	Ν
Dex	Doryanthes excelsa	Gymea Lily	2 x 2m	26	300mm	Ν
Lfc	Leptospermum flavenscens 'Cardwell'	Tea Tree	1.5 x 1.5m	51	300mm	
Lpe	Leptospermum petersonii	Lemon Scented Tea Tree	3 x 2m	19	300mm	Ν
Mct	Melaleuca 'Claret Tops'	Honey Myrtle	1 x 1m	40	300mm	Ν
Sgo	Strobilanthes gossypinus	Pewter Plant	1.2 x 1.5m	42	300mm	Ν
Wab	Westringia fruticosa 'Aussie Box'	Coastal Rosemary	0.7 x 0.7m	54	300mm	Ν

PLANT	SCHEDULE					
Code	Botanical Name	Common Name	Height	Quantity	Pot Size	Stake
GROUN	IDCOVERS & CLIMBERS					
Dca	Dianella caerulea	Paroo Lily	0.7 x 0.7m	311	140mm	Ν
Dcb	Dianella 'Cassa Blue'	Paroo Lily	0.7 x 0.7m	61	140mm	Ν
DIj	Dianella 'Little Jess'	Paroo Lily	0.5 x 0.5m	58	Tubestock	Ν
Dgr	Dietes grandiflora	African Iris	1.2 x 1.2m	290	140mm	
Gmt	Grevillea 'Mt Tamboritha'	Grevillea	0.4 x 1.5m	84	140mm	Ν
Gto	Gazania tormentosa	African Daisy	0.5 x 0.5m	144	140mm	Ν
Fno	Ficinia nodosa	Knotted Club Rush	0.5 x 0.5m	54	Tubestock	Ν
Hsc	Hibbertia scandens	Guinea Flower	0.2 x 1.5m	46	140mm	Ν
Llt	Lomandra 'Lime Tuft'	Lime Tuft	0.5 x 0.5m	110	140mm	Ν
*LIt	Lomandra 'Lime Tuft'	Lime Tuft	0.5 x 0.5m	39	Tubestock	Ν
Lta	Lomandra 'Tanika'	Tanika	0.7 x 1.0m	93	140mm	Ν
Мра	Myoporum parvifolium	Creeping Boobialla	0.2 x 1.5m	81	140mm	Ν
Pes	Poa 'Eskdale'	Tussock Grass	0.5 x 0.5m	204	140mm	Ν
*Pes	Poa 'Eskdale'	Tussock Grass	0.5 x 0.5m	36	Tubestock	Ν
NOTE: *	Plant quantities on planting plan take ,	precedence over quantities identified	in this schedule.			











Project:	Ti
Multi Dwelling Housing	L
Development (8 Townhouses)	
at	File
70-72 Gordon Avenue, Granville	23

Title:		Status: Pa	art 5 Issu	ıe	
Landscape Plan		Date:	Scale:	S d job no:	Project r
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		Stage:	Drawn:	Checked:	Approve
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File:	Plotted:	Drawing:	Sheet:		Rev:
231016 70-72 Gordon Ave, South	16/10/202	L01	1	of 2	3
Granville (DA).pln	11:37 am				

litres of water (for tree in a 45 litre pot) to the newly planted tree per 7 days. Water at a slow rate not to displace mulch. For trees in pot size larger than 45 litres, provide quantity of water on third of that pot size. Note: it is the responsibility of the contractor to confirm the location of all underground services prior to commencement of any excavation or staking works. Strong central leading trunk to be evident at time of planting

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

Set 2 of 50x50x2400mm hardwood stakes vertically (or depending on pot size refer to specification for number and size) and clear of root ball and canopy at 900mm spacing, offset a min. 200mm from underground services to ensure no damage is caused to services. Stakes must be positioned so as to prevent damage to structural branches and prevent rubbing on branches.

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

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

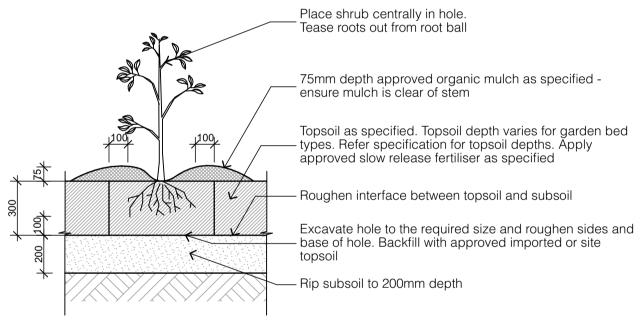
off and apply the spade to the bottom in each quadrant.

Apply and spread mulch (as per AS4454-2012) to a depth of 100mm and 1200mm diameter from tree. No mulch is to be touching the tree.

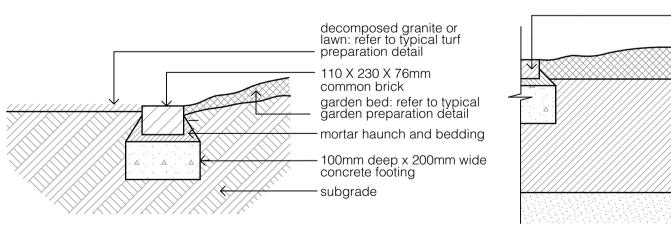
Apply 500gms of gypsum to the planting site at a radius of a minimum 1200mm diameter from centre of hole. Apply 500gms of gypsum to inside of hole. Lightly compact soil at the base to prevent settling.

Excavate a planting hole with sloping sides 3 times the width of the rootball. Break up sides and base. If digging in soil of low permeability, the hole should be wider and deeper. In this instance backfill will be required at base of hole. Augers are not to be used for excavation of the planting hole. Planting

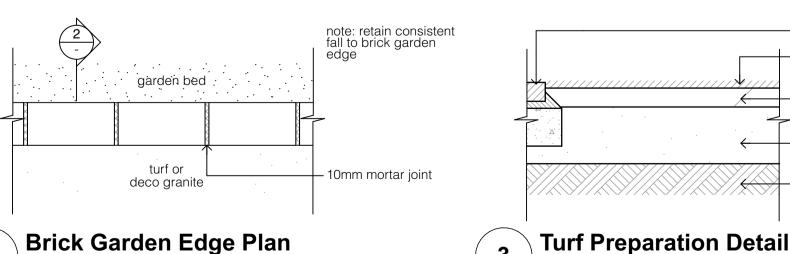
hole is to be watered prior to planting. No tree is to be planted into naturally waterlogged soil. If soil is waterlogged, planting must be rescheduled to allow sufficient time for the soil to dry out.











Brick Garden Edge Plan

GENERAL NOTES

All plans and details included in the project documents shall be read in conjunction with this specification. All structural and civil works components of the landscape design shall be referenced to engineers' details and specifications.

Read this specification in conjunction with the plant and materials schedule on this drawing. If in doubt about any detail or if conflicts are found in the documents, seek advice

The whole of the landscape works shall be carried out by a competent, trained and qualified landscape contractor who is experienced in horticultural practices, landscape construction and planting techniques. The landscape contractor shall hold a current Building Contractors License and/or be a financial member of LNA Landscape Association SW & ACT or equivalent organisations in other

EXISTING TREES

Trees to be Retained and Protected

Identify and mark trees and shrubs to be retained using a suitable non-injurious, easily visible and removable means of identification. Protect from damage the trees and shrubs to be retained, including those beyond the site area, both above and below the ground. If a tree becomes damaged during the works or it is proposed to perform work on a tree, give written notice immediately and obtain

Keep the area of the drip-line free from construction material and debris. Do not place bulk materials and harmful materials under or near trees. Do not place spoil from excavations against tree trunks. Prevent wind-blown materials such as cement from harming trees and plants. Do not remove topsoil from, or add topsoil to, the area within the drip-line of trees.

EARTHWORKS

Excavation, Trimming and Filling

Except as otherwise note in the contract, bulk excavation is excluded from the landscape works. Trim and fill the excavated ground surfaces to achieve design levels to accommodate finish materials as detailed. Compact the finished surface as required for the finished ground treatment.

Keep the excavated works drained and free of standing water. Allow to supply and install sub-soil drainage pipes as required for the new works to ensure that all gardens are well drained. Connect the sub-soil drainage pipes to the nearest downstream stormwater pits. Include pipe filter socks.

Garden Walls, Fences, Steps, TGSI and Edging

Construct garden walls as shown on plan, as detailed and of the material scheduled. Provide footings, step nosings, tactile surfaces to comply with standards and applicable legislation.

Undertake at least two (2) soil tests, in locations as advised by Project Manager, and provide results and recommendations for the improvement of plant growth and to adjust the soil to achieve appropriate planting medium (including pit levels) for successful plant growth.

Excavate all garden beds to bring the subsoil to at least 300mm below finished design levels. Shape the subsoil to fall to subsoil drains where applicable. Do not excavate within the drip line of trees to be retained. Excavate all turf areas to bring the subsoil to at least 100mm below finished design levels. Shape the subsoil to fall to subsoil drains where applicable. Do not excavate within the drip line of trees to be retained. Cultivate the subsoil to a further depth of 100mm. Remove stones exceeding 25mm, clods of earth exceeding 50mm, and weeds, rubbish or other deleterious material brought to the surface during cultivation. Do not disturb services or tree roots, if necessary cultivate these areas by hand. During cultivation, thoroughly mix in materials required to be incorporated into the subsoil, as recommended in the soil testing results and to manufacturer's recommendations. Trim the surface to design levels after cultivation.

Import topsoil for the garden and turf areas, unless the topsoil can be provided from material recovered from the site, as recommended in the soil testing results. Spread the topsoil on the prepared subsoil and grade evenly, compact lightly and uniformly in 150mm

layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics: • Finished to design levels, allowing for mulch or turf, which is to finish flush with adjoining hard

surfaces such as paths and edge; Smooth and free from stones or lumps of soil;

 Graded to drain freely, without ponding, to catchment points; Graded evenly to adjoining surfaces; and

Ready for planting.

Provide, in accordance with AS 4454, well rotted vegetative material or animal manure, free from harmful chemicals, grass and weed growth.

Provide proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses and application rates.

Supply plants in accordance with the landscape drawings and schedules, which have the following • Large healthy root systems, with no evidence of root curl, restriction or damage:

• Vigorous, well established, free from disease and pests, of good form consistent with the species or

 Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site, and in particular shade conditions;

 Grown in final containers for not less than twelve weeks: • Trees, unless required to be multi-stemmed, shall have a single leading shoot;

Containers shall be free from weeds and of appropriate size in relation to their container.

Plant Installation

Following excavation of the planting hole place and spread 15gms of wetting agent pre-mixed with one (1) litre of water. Place the plant correctly orientated to north or for best presentation. Backfill the planting holes with specified topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure the topsoil is not placed over the top of the rootball. Keep the plant stem at the same height above the ground as it was above the soil in the container. Apply fertiliser, as recommended in the soil testing results or in accordance with the manufacturer's recommendations around the plants in the soil at the time of planting.

Embankment Stabilisation

Plant after matting is installed.

Where necessary to prevent soil erosion or soil movement, stabilise embankments. As a minimum this should be on slopes >1:3. Stabilise embankments using biodegradable fire reinforced with heavy weight polymer mesh. Lay mesh from top to bottom of slope. Install in accordance with manufacturer's specification, including 300 × 300 mm anchor trenches at top and bottom, backfilled with soil over the mesh and composted, and U-shaped galvanised steel pegs at 1000 mm centres and 250ml centres at edge overlaps

Root Barrier

Supply and install root control barriers to all new tree plantings adjacent to walls, paths and all trunk service trenches, where their proximity poses a threat to the stability of the infrastructure. Install in accordance with manufacturer's recommendations.

Mulch shall be approved recycled wood fibre or pine bark mulch. Place mulch in all garden beds to a depth of 75mm, after all specified plants are installed. Keep mulch clear of all plant stems and rake to an even surface flush with the surrounding surfaces evenly graded between design surface levels. Over fill to allow mulch to settle to the specified depth.

Stakes shall be durable hardwood, straight, free of knots and twists, pointed at one end, in the following quantities and sizes for each of the various plant pot sizes: Plants (>25 lt): 1 off 38 x 38 x 1200mm;

• Semi-advanced plants (>75 lt): 2 off 50×50x 1800mm: Advanced (>100 lt): 3 off 50 x 50 x 2400mm.

IRRIGATION

All proposed landscape areas shall be irrigated. The irrigation system shall be an automatic fixed drip system, with an irrigation controller self operated via a soil moisture sensor. The system shall be compatible to the type of plant material and rates of water required. Where appropriate adjustable and fully serviceable. The layout of the entire irrigation is to ensure that each individual plant receives the required amount of water to maintain healthy and vigorous growth. The irrigation system shall be such that, component theft, vandalism, over-spray and wetting of paths shall be reduced to a minimum or completely eliminated by the use of drip, pop-up sprinklers and judiciously placed fixed spray emitters. Do not use fine mist type emitters that provide a drifting mist that may wet paths and the buildings.

LANDSCAPE MAINTENANCE

The Landscape Contractor shall rectify defects during installation and that become apparent in the works under normal use for the duration of the contract Defects Liability Period. The Landscape Contractor shall maintain the contract areas by the implementation of industry accepted horticultural practices for 52 weeks. The landscape maintenance works shall include, but not be limited to, the

 Replacing failed plants; Pruning;

Insect and pest control;

Maintaining mulch;

 Fertilising; • Stakes and ties:

 Mowing and top dressing; Irrigation and watering;

 Erosion control; and Weeding and rubbish removal.

Maintenance Log Book Implement and keep a maintenance log book recording when and what maintenance work has been

to keep the landscape always looking its best. **Maintenance Activities**

Schedule the following activities to occur on a timely basis. • Plant replacement - Replace plants that have failed to mature, die or are damaged. Replacement plants shall be in a similar size and quality and identical species or variety to the plant that has failed. Replacement of plants shall be at the cost of the landscape contractor unless advised otherwise. If the cause of the failure is due to a controllable situation then correct the situation prior to replacing plants. • Pruning - Prune dead wood, broken limbs, dead or infected foliage and as needed to develop

undertaken and what materials, actions and decisions have been used, implemented and concluded

strong, healthy plants to achieve the shape and form expected of the plant type. • Insect and pest control - Avoid spraying:

 if ever possible • in wet weather or if wet weather is imminent; if target plants are still wet after rain; in windy weather;

Immediately report to the Project Manager any evidence of intensive weed infestation, insect attack or disease amongst plant material. Submit all proposals to apply chemicals and obtain approval before starting this work. When approved, spray with herbicide, insecticide, fungicide as appropriate in accordance with the manufacturers' recommendations. Record in the logbook all relevant details of spraving activities including

Product brand / manufacturer's name,

 Chemical / product name, Chemical contents,

Application quantity and rate,

Date of application and location.

Results of application, and Use approval authority.

• Fertilising - Fertilise gardens with a proprietary slow release fertiliser applied in accordance with the

manufacturer's directions and recommendations. Record in the logbook all relevant details of fertilising

 Product brand / manufacturer's name, Fertiliser / product name,

Application quantity and rate, and Date of application and location.

• Stakes and ties - Adjust and replace as required to ensure plants remain correctly staked. Remove

those not required at the end of the planting establishment period (Defects Liability Period). • Maintaining mulch - Maintain the surface in a clean, tidy and weed free condition and reinstate the mulch as necessary to ensure correct depth as specified. • Mowing and top dressing - Mow the turf to maintain a grass height of between 30-50mm. Do not

remove more than one third of the grass height at any one time. Remove grass clippings from the site after each mowing. Top dress to a maximum of 10mm to fill depressions and hollows in the surface. • Irrigation and watering - Maintain the irrigation system to sure that each individual plant receives the required amount of water to maintain healthy and vigorous growth, adjust and rectify as required. Provide additional watering, if necessary. • Erosion control - Where necessary, maintain the erosion control devices in a tidy and weed free

condition and reinstate as necessary to ensure control measures are effective where deemed • Weeding and rubbish removal - During the plant establishment period remove by hand, rubbish and weed growth that may occur or re-occur throughout all planted, mulched and paved areas. The contractor shall target weeds that are capable of producing a major infestation of unwanted plants by

seed distribution. Whenever possible, time weed removal to precede flowering and seed set.

LANDSCAPE MAINTENANCE PROGRAMME

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

establishment) period to the satisfaction of the council. The landscape contractor shall attend to the site on a

The landscape contractor shall maintain the landscape works for the term of the maintenance (or Plant

weekly basis. The maintenance period shall commence at handover and continue for a period of 52 weeks maintenance for the Post- Completion Period which also includes a 3 Month Maintenance period for minor 2.0 WATERING.

minimum acceptable watering required is equal to 25mm of natural rainfall or its applied equivalent during each period of one (1) week, around individual plants, maintain a completely weed and grass free watering saucer of a minimum diameter of one (1) metre.

Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth. The

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

The landscape contractor shall replace all plants that are missing, unhealthy or dead at the Landscape

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

The landscape contractor shall replace or adjust plant stakes, and tree guards as necessary or as directed by

the Landscape Architect. Adjust ties to give adequate support to the plants, replace broken or damaged ties as

necessary and straighten stakes. Remove stakes and ties at the end of the maintenance period if so directed. Trees and shrubs shall be pruned as directed by the Landscape Architect. Pruning will be directed at the

maintenance of the dense foliage or miscellaneous pruning and beneficial to the condition of the plants to improve plant shape and form or to clear footpaths and driveways. Any damaged growth shall be pruned. All pruned material shall be removed from the site.

7.0 MULCHED SURFACES All mulched surfaces shall be maintained in a clean and tidy condition and be reinstated if necessary to ensure

that a depth of 75mm is maintained. Ensure mulch is kept clear of plant stems at all times.

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

8.0 PEST AND DISEASE CONTROL

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

course of the works and during the maintenance period.

Apply follow up concentrated organic fertiliser to all turfed areas once during the maintenance period 10 weeks

Mow at max 10-day intervals, trimming all edges, remove all weed growth or grass around base of all plants in

turf or by hand in grass areas within the isolated planting area edging and within one (1) metre diameter area in grass, do not use nylon line type edge trimmers around base of trees - replace or repair failed turf and bare

good by the landscape contractor at no cost to the client.

Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made

DETERMINED by the NSW Land and Housing Corporation on:

ONGOING MAINTENANCE SCHEDULE OF PLANTING AND TURF AREAS

OCCUPATIONAL HEALTH AND SAFETY (OHS)

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

- All grassed areas shall be maintained in a weed free state. Weed growth with grass areas must not

exceed 10% of the total grass area. Grass clippings shall be distributed evenly over the surface and at no time shall the layer of clippings be at such a depth that it will affect or damage the lawn area.

Ensure one does not mow over any litter or debris. Prior to mowing, all areas shall be inspected and are to be cleared of litter and debris, including but not limited to paper, plastic, glass, rocks, branches, garden refuse, timber, spoil, etc. Such material shall be disposed of off-site. The contractor must take an environmentally responsible approach to the collection, sorting and recycling (where appropriate) of

materials collected in the interests of waste minimisation. Green waste recycling is encouraged. Sharps are to be collected by the developer and disposed of appropriately. The contractor should be fully aware of the associated problems of needle stick injury and therefore handle sharps accordingly. Grass height shall be kept between 40 mm – 70mm in height.

- All turf is to be cut evenly and sharply across the surface to a height of 40mm. The method of measurement of the mowing height shall be the average height from the ground to the uppermost extent of the blades when held up vertically. No more than one-third (1/3) of the grass length should be removed in any one mowing Wherever possible grass shall be cut in parallel lines so that all grassed areas are left with a neat and

tidy appearance. On successive cuts the grass must be mowed in the opposite direction or at variable directions, to avoid windrows developing and to prevent grass seed stalks lying in one direction and remaining uncut. After mowing, all hard surfaces such as footpaths and roads shall be cleared of cut

The needs of the public must be considered before moving commences. At all times, the contractor must be courteous and respectful of the needs of these users

All nature strips abutting reserves or Council-managed facilities shall be mown and maintained to the same standard as the facilities.

The contractor should use discretion in the selection of appropriate machinery suited to the task and must take into consideration ambient site conditions. Ground surface damage as a result of the use of machinery inappropriate to the conditions will be the responsibility of the contractor to reinstate.

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

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

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

Mulching - Reapply mulch to maintain to a depth of 75mm

Plant Fertiliser - Fertilise all plants at specified rates based on soil testing results. Prior approval required for fertiliser use. Slow release fertiliser N:P:K ratio- 18:3:10 at manufacturer's recommended rate per plant. Initial fertilising at planting based on soil testing results Pruning & Trimming - Shrubs & groundcover - Tip prune to encourage density. Length removed depending on

vigour of previous plant growth. Pruning should reflect the natural growth, flowering and regrowth habit of the individual species. Generally prune after flowering. Prune hedges in late Spring. Turf Fertiliser - Apply fertiliser at rates as recommended by manufacturer. Turf Mowing - Every 3 weeks in spring & autumn Do not mow under wet conditions. Mow at heights of between

40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge rimmers around base of trees. Turf Decompaction & Aeration - Inspect for compaction and thatching. Carry out aeration treatment if required. Carry out with dethatching or verticutting equipment.

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

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

Turf Fertiliser - Apply fertiliser at rates as recommended by manufacturer. Turf Mowing - Every 3 weeks in spring & autumn Do not mow under wet conditions. Mow at heights of between

40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees. Pruning & Trimming - Shrubs & groundcover - Tip prune to encourage density. Length removed depending on vigour of previous plant growth. Tip pruning involving the removal of the top 25mm or growing tip of each

branch, should be used with shrubs and groundcover to encourage development of new shoots during the active growing season. Be careful not to remove the buds before the flowering season in those plants that have

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

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

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

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

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

manufacturer's recommendation Turf Replacement - Remove failed turf, prepare surface & lay new turf in accordance with original turf specified. Watering - Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth. The minimum acceptable watering required is equal to 25mm of natural rainfall or its applied equivalent during each period of one (1) week, around individual plants, maintain a completely weed and grass free watering

Weed Control in Turf - Remove weeds from turf areas manually or with approved herbicide in accordance with

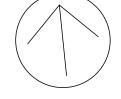
saucer of a minimum diameter of one (1) metre. Stakes and Ties - Replace or adjust plant stakes, and tree guards as necessary. Adjust ties to give adequate support to the plants, replace broken or damaged ties as necessary and straighten stakes. Remove stakes and ties after one year. Mulch - Ensure mulch is kept clear of plant stems at all times. Drainage pits are to be cleared of mulch and other

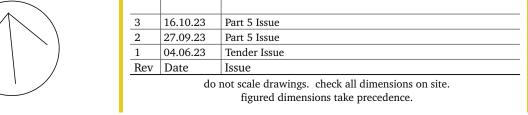
The overflow area is to be cleared of weeds on a regular basis and particularly after significant storm events. Check irrigation system is operating correctly. Check paved areas and clean if slippery with a high pressure hose. Check retaining walls and planter boxes for signs of failure. Check seats and tables for signs of wear and tear and ensure all fastenings are secure. Maintain

material regularly so that all pits are cleared when observed at monthly intervals or after significant storm events.



Brick Garden Edge Section





-paving or edging

selected mulch to

75mm finish flush

with surrounding

- imported topsoil/

cultivated sübgrade

paving or edging

selected turf species

imported topsoil to

cultivated subgrade

100mm

– subgrade

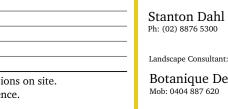
150mm deep

compost mix to

· 150mm deep

edaes

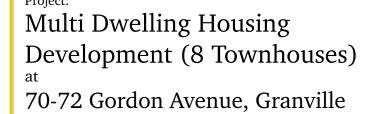
300mm



Project Architect: Stanton Dahl Architects Electrical Consultant Botanique Design

Hydraulic & Structural Consultant:





Landscape Details, Specification & Maintenance Plan

BBQ s per manufacturer's details (if required).

Status: Part 5 Issue 16/10/2023 #### BGWT6 @ AI Drawn: MM16/10/202<mark>3 LO2</mark> 231016 70-72 Gordon Ave, South Granville (DA).pln 11:37 am

PROPOSED DEVELOPMENT

70-72 Gordon Street, South Granville, NSW greenview Job No: 230291

GENERAL NOTES

- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION.
- 2 THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN. B IT IS THE RESPONSIBILITY OF THE TENDERER TO SEEK CLARIFICATION WHERE DOCUMENTATION IS CONFLICTING OR UNCLEAR, WHERE NO CLARITY IS OBTAINED. THE TENDERER IS TO
- L. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN AD IACENT LANDS WITHOUT THE PERMISSION OF THE OWNER

ALLOW FOR BOTH INTERPRETATIONS IN THEIR PRICING.

- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.
- 6. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH
- ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S
- 3. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS
- REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED. THESE PLANS SHALL BE A READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS SPECIFICATIONS CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS
- 10. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC LITHITY SERVICES WITHIN THE SITE FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE
- LINE OF THE DRAINAGE DISCHARGE PIPES. . THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION. 12. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE
- GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE

UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED

- 13. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE COLLARS FITTED EXCEPT FOR CLASS 1 BUILDINGS 14 ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1 0m SHALL
- BE PROVIDED WITH GALVANIZED STEP IRON'S AT 300 mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS4198-1994. 15. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON
- SITE DETENTION STORAGE SHALL BE OF A NON-FLOATABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA. 16. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE
- STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. 17. GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY
- SURVEY INFORMATION PROVIDED ON THIS DRAWING. 18. ALL LEVELS SHOWN ARE EXPECTED TO BE TO A.H.D. 19. ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN
- MILLIMETRES, UNLESS NOTED OTHERWISE. 20. THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN
- PROVIDED BY THE ARCHITECT. 21. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT
- BY A REGISTERED SURVEYOR. 22. W.A.E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED PRIOR TO CERTIFICATION OF DRAINAGE
- 23. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES WITHOUT WRITTEN APPROVAL
- 24. WATER TREATMENT DEVICES TO STRICTLY COMPLY WITH MANUFACTURING SPECIFICATIONS.

RAINWATER REUSE SYSTEM NOTES I. RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS

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

SAFETY IN DESIGN NOTES

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

EARTHWORK NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT OF THE PROPOSED
- DEVELOPED AREA. PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS PRIOR TO ANY BUILK EXCAVATION
- 4. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE
- FROM SITE, EXCEPT TOP SOIL FOR RE-USE. CUT AND FILL OVER THE SITE TO LEVELS REQUIRED. PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND,
- WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES. 7. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM

PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM

- MOISTURE CONTENT ± 2%. 8. FOR ON SITE FILLING AREAS. THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO
- COMMENCING FILL OPERATIONS. 9. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH
- EXCAVATION IS TAKEN 10. FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO LINDERSIDE OF BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1) MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR
- 11. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA LABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE ALLOWED FOR BY THE BUILDER
- 12. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ. 13. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL
- 14. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED

DRAINAGE INSTALLATION

RCP CONVENTIONAL **INSTALLATIONS & ROAD CROSSINGS**

- 1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN ACCORDANCE WITH THESE DRAWINGS, THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN
- 2. BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION, A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH
- SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY. 3. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA

BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE

WITH THE STANDARDS AND AS FOLLOWS: a.COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE

FOLLOWING G	RADINGS	i:				
М	19	2.3600	0.6000	0.3000	0.1500	0.0750
% MASS PASSING	100	50-100	20-90	10-60	0-25	0-10

- -AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726.
- b.BEDDING DEPTH UNDER THE PIPE TO BE 100mm c.BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE
- BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS REPRESENTS THE 'HAUNCH ZONE.
- d. THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS
- e.COMPACTION TESTING SHALL BE CARRIED OUT BY AN ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT

ROOF DRAINAGE

(I.E. NOT TO THE SIDE): AND

- 1. ALL ROOF DRAINAGE IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING
- AS3500.3, NCC AND COUNCIL'S SPECIFICATIONS. DOWNPIPES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR
- ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE. UNLESS APPROVED OTHERWISE BY THE PROJECT ARCHITECT. . ALL DOWNPIPES TO HAVE LEAF GUARDS.
- ALL EAVES GUTTERS ARE TO BE DESIGNED TO THE 5% AEP (20YR) STORM 6. ALL EAVES GUTTER OVERFLOWS ARE TO BE IN ACCORDANCE WITH AS3500.3
- . ALL BOX GUTTERS ARE TO BE DESIGNED TO CATER TO THE 1% AEP (100YR) STORM EVENTS LINO
- 8. IN ACCORDANCE WITH AS3500.3 CLAUSE 3.7.6.G, BOX GUTTERS SHALL: a. BE STRAIGHT (WITHOUT CHANGE IN DIRECTION) HAVE A HORIZONTAL CONSTANT WIDTH BASE (SOLE) WITH VERTICAL
- SIDES IN A CROSS-SECTION. HAVE A CONSTANT LONGITUDINAL SLOPE BETWEEN 1:200 AND 1:40. d. DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE OF DIRECTION
- . BE SEALED TO THE RAINHEADS AND SUMPS . GREENVIEW RECOMMENDS THAT THE BUILDER VERIFIES THAT ANY AND ALL BOX GUTTERS HAVE BEEN DESIGNED BY A QUALIFIED CIVIL ENGINEER PRIOR
- TO THE COMMENCEMENT OF WORKS 10. GREENVIEW RECOMMENDS A SPECIFIC INSPECTION AND CERTIFICATION BY A QUALIFIED CIVIL ENGINEER OF ANY AND ALL BOX GUTTERS INSTALLED ON THE PROJECT PRIOR TO OCCUPATION CERTIFICATE

11. ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER

OR STORMWATER LINE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS

STORMWATER DRAINAGE NOTES

- 1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND
- MINIMUM PIT DIMENSIONS ARE TO BE IN ACCORDANCE WITH AS3500.3 TABLE 7.5.2.1 WHICH PROVIDES GUIDANCE ACCORDING TO PIT DEPTH U.N.O.

TABLE 7.5.2.1 MINIMUM INTERNAL DIMENSIONS FOR

STORMWATER AND INLET PITS

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

- 3. PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2
- RUBBER RING JOINTED UNO. 5. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE
- CLASS 3 U.N.O. BY COUNCILS SPECIFICATION. 6. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE
- . MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE
- 600mm IN CARPARK & ROADWAY AREAS UNO. ALL PIPES LOCATED IN LANDSCAPE AREAS TO HAVE 300mm COVER. WHERE NOT POSSIBLE AND COVER IS BETWEEN 150mm AND 300mm USE SEWER
- GRADE PIPE. 9. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O.
- 10. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O 11. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO
- 98% OF STANDARD DENSITY 12. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL 13. THE MINIMUM SIZES OF THE STORMWATER DRAINAGE PIPES SHALL NOT BE
- LESS THAN 90mm DIA FOR CLASS 1 BUILDINGS AND 100mm DIA FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY. 14. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO
- PITS TO MATCH PIT INVERTS. 15. ALL LANDSCAPED PITS TO BE MIN 450 SQUARE U.N.O OR LARGER AS
- REQUIRED BY AS3500.3 TABLE 7.5.2.1 16. GREENVIEW RECOMMENDS ALL COURTYARDS TO HAVE 450 SQUARE PLASTIC PIT INSTALLED WITH A 150mm DIA. CONNECTION TO FORMAL DRAINAGE
- 17. ALL DRIVEWAY PITS TO BE MIN 600 SQUARE U.N.O OR LARGER AS REQUIRED BY AS3500.3 TABLE 7.5.2.1 18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED
- 19. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND

STORMWATER DRAINAGE LINE.

- 20. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION 21. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF
- THE OUTLET PIPE AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO 22. ANY VARIATION TO THAT WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY THE ENGINEER PRIOR TO THE COMMENCEMENT.
- 23. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS 24. GREENVIEW RECOMMENDS ALL ACCESSIBLE GRATES TO BE FITTED WITH
- CHILDPROOF LOCKS 25. ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL PRIOR TO BACKFILLING. 26. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO
- THE FINISHED LEVELS ONCE ISSUED BY COUNCIL. 27. WATER PROOF ALL CONCRETE BALCONIES & ROOFS TO ARCHITECTS DETAILS 28. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY
- 29. ALL SUBSOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE
- LANDSCAPE CONSULTANT 30. SUBSOIL DRAINAGE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS, LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE, PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE
- FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS. 31. ALL GRATES IN AREAS OF FREQUENT PEDESTRIAN TRAFFIC (IE FOOTPATHS, WALKWAYS, ETC.) TO BE HEELPROOF GRATE. 32. REFER ARCHITECTS DETAIL FOR GRATE FINISH (IE STAINLESS STEEL OR
- 33. GRATES TO BE IN ACCORDANCE WITH TABLE BELOW:

PIT GRATE INLINE TYPE

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

32. COVER TO PIPE TO BE AS PER TABLE BELOW

COVER TABLE

LOCATION	PIPE TYPE	COVER
LANDSCAPE	PVC	300
LANDSCAPE (SINGLE DWELLING)	PVC	100
UNDER TRAFFICABLE AREA	PVC	100 BELOW UNDERSIDE OF PAVEMENT
CONCRETE	STEEL	NIL BELOW UNDERSIDE OF PAVEMENT
ROADS	RCP	500 BELOW UNDERSIDE OF PAVEMENT

STORMWATER DRAINAGE NOTES CONTINUED

33. GREENVIEW'S STORMWATER SYSTEM HAS BEEN DESIGNED TO CAPTURE SURFACE RUNOFF FROM THE SITE ITSELF BUT DOES NOT INCORPORATE SPECIFIC GROUNDWATER CAPTURE MECHANISMS. IN SOME CASES. GROUNDWATER INUNDATION MAY BE A SIGNIFICANT SOURCE OF WATER DURING A STORM EVENT. GREENVIEW RECOMMENDS THAT ALL RETAINING WALLS CLOSE TO HABITABLE AREAS BE FITTED WITH AN IMPERMEABLE

MEMBRANE AND SUBSOIL DRAINAGE TO PREVENT GROUNDWATER

- 34. GREENVIEW RECOMMENDS ALL IN-GROUND STORMWATER PIPE RUNS ARE SET OUT BY THE BUILDER PRIOR TO COMMENCEMENT OF WORKS. WHERE 300MM COVER IS NOT ACHIEVED. NOTIFY ENGINEER.
- 35. WHERE STORMWATER DRAINAGE WORKS ARE TO BE UNDERTAKEN PRIOR TO THE CONSTRUCTION OF THE BUILDING, THE BUILDER IS TO SET OUT THE FLOOR LEVELS AND ENSURE PROPOSED STORMWATER DRAINAGE LEVELS AND BUILDING LEVELS ARE COMPATIBLE. NOTIFY ENGINEER IMMEDIATELY IF

ON-SITE DETENTION

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

LESS THAN 150mm BELOW NON-HABITABLE FLOOR LEVELS (AS3500.1 CLAUSE

INFILTRATION/ABSORPTION SYSTEM. EACH COUNCIL HAS SPECIFIC

BELOW GROUND OSD TANKS

a. IT IS MACHINED TO 0.5mm ACCURACY

GROUND PONDING, OR RAINWATER TANK OFFSET, OR

- . THE HYDRAULIC CONTROL FOR THE STORAGE (USUALLY ORIFICE PLATE) SHALL BE FIRMLY FIXED IN PLACE TO PREVENT REMOVAL OR TAMPERING. A PLATE OF 3mm TO 5mm THICK STAINLESS STEEL WITH A CIRCULAR HOLE SHALL BE USED, PROVIDED:
- b. IT RETAINS A SHARP EDGE; AND c. THE ORIFICE DIAMETER IS NOT LESS THAN 25mm (AS 3500.3 CLAUSE 7.10.2 INSPECTION / ACCESS OPENINGS SHALL BE PROVIDED ABOVE THE LOCATION OF THE OUTLET WITH DIMENSIONS AT LEAST 600mm x 600mm OR 600mm DIAMETER FOR STORAGES UP TO 800mm DEEP AND 600mm x 900mm FOR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OF

DEBRIS THROUGH THIS OPENING. INSPECTION SHALL BE POSSIBLE WITHOUT

- RESIDENTS OR OWNERS HAVING TO REMOVE HEAVY ACCESS COVERS (AS3500.3 CLAUSE 7.10.2.b.ii) WHERE STORAGES ARE NOT DEEP ENOUGH TO WORK IN (<1.5m DEEP), ACCESS SHALL BE PROVIDED AT INTERVALS OF APPROXIMATELY 10m TO
- ALLOW THE SYSTEM TO BE FLUSHED TO THE STORAGE OUTLET> ACCESS SHALL BE PROVIDED AT THE OUTLET (AS3500.3 CLAUSE 7.10.2.b.iii) A SUMP SHALL BE PROVIDED AT THE OUTLET POINT. SET BELOW THE LEVEL OF THE MAIN STORAGE TO COLLECT DEBRIS. WHERE A DISCHARGE CONTROL PIT IS INCLUDED IN THE STORAGE< THIS SHALL CONTAIN A SUMP SET A MINIMUM OF 1.5 TIMES THE DIAMETER OF THE ORIFICE OF THE OUTLIET BELOW THE CENTRE OF THE ORIFICE SUMPS SHALL BE PROVIDED WITH WEEP HOLES TO DRAIN OUT TO THE SURROUNDING SOIL, AND SHALL BE
- FOUNDED ON A COMPACTED GRANULAR BASE WHERE THE DEPTH OF THE TANK EXCEEDS 1.2m, A LADDER IN ACCORDANCE WITH AS3500.3 CLAUSE 7.5.5.4 SHALL BE INSTALLED BELOW GROUND OSD SYSTEMS SHALL CONFORM WITH AS2865. IN ACCORDANCE WITH AS3500.3 CLAUSE 7.10.2.D SCREENS (TRASH RACKS)
- WITH THE FOLLOWING CHARACTERISTICS SHOULD BE PROVIDED TO COVER a. FOR ORIFICES UP TO 150mm DIA., A FINE APERTURE-EXPANDED METAL MESH SCREEN WITH A MINIMUM AREA OF 50 TIMES THE AREA OF THE ORIFICE, FOR LARGER DIA, ORIFICES, A COARSER GRID MESH WITH A
- MINIMUM AREA OF 20 TIMES THE ORIFICE AREA MAY BE USED AS AN **ALTERNATIVE** b. STEEL SCREENS SHOULD BE STAINLESS STEEL OR HOT-DIP GALVANIZED WHERE APERTURE-EXPANDED MESH SCREENS ARE EMPLOYED. THEY SHOULD BE POSITIONED SO THAT THE OVAL-SHAPED HOLES ARE HORIZONTAL. WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING
- DOWNSTREAM A HANDLE MAY BE FITTED TO ENSURE CORRECT ORIENTATION AND EASY REMOVAL FOR MAINTENANCE. SCREENS SHOULD BE PLACED NO FLATTER THAN 45 DEGREES TO THE HORIZONTAL IN SHALLOW STORAGES UP TO 600mm DEEP. IN DEEPER OR MORE REMOTE LOCATIONS, THE MINIMUM ANGLE SHOULD BE 60 DEGREES
- TO THE HORIZONTAL IF THE BELOW GROUND OSD STORAGE IS SEALED. A VENT SHOULD BE PROVIDED TO EXPEL ANY NOXIOUS GASES (AS3500.3 CLAUSE 7.10.2.D.B). THE STORAGE SHOULD BE DESIGNED TO FILL WITHOUT CAUSING

OVERFLOWS IN UPSTREAM CONDUITS DUE TO BACKWATER EFFECTS

(AS3500.3 CLAUSE 7.10.2.D.C). 10. BELOW GROUND STORAGES SHALL BE CONSTRUCTED OF CONCRETE. MASONRY, ALUMINIUM/ZINC AND ALUMINIUM/ZINC/MAGNESIUM ALLOY-COATED STEEL, ZINC-COATED STEEL, GALVANISED IRON OR PLASTICS (AS3500.3

MAINTENANCE SCHEDULE: ON SITE DETENTION (OSD)

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

6 MONTHLY

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

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

C-YFARI Y

5-1 EARL1		
ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ORIFICE PLATE	CHECK ORIFICE SIZE AGAINST WAE AND CHECK FOR PITTING / SCARRING, REPLACE IF NECESSARY

RECOMMENDED SAFETY SIGNS



CONFINED SPACE DANGER SIGN

- 1. A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE. - MINIMUM DIMENSIONS OF THE SIGN
- 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) - 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES) 2. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED
- ALUMINUM OR POLYPROPYLENE 3. SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE

EXISTING SERVICES



ABBREVIATIONS

PROPOSED FINISHED FLOOR LEVEL PROPOSED PIT SURFACE LEVEL PROPOSED PIT INVERT LEVEL INSPECTION OPENING **KERB & GUTTER** FINISHED PAVEMENT LEVEL REINFORCED CONCRETE PIPE **ROLL KERB & GUTTER** FINISHED SURFACE LEVEL RAINWATER DRAINAGE OUTLET PROPOSED RAINWATER TANK TOP OF NEW KERB LEVEL TOP OF NEW RETAINING WALL LEVEL TOP OF WATER LEVEL

RIGID PVC PIPE

VERTICAL DROPPER

COLOUR LEGEND



	GREENVIEW CIVIL SHEET LIST	
No.	SHEET NAME	REV.
C01	NOTES & LEGENDS	9
C02	GROUND FLOOR DRAINAGE PLAN	10
C03	SITE STORMWATER DETAILS SHEET	9
C04	OSD CATCHMENT PLAN	9
C05	LOWER ROOF DRAINAGE PLAN	8
C06	ROOF DRAINAGE PLAN	8
C10	GROUND FLOOR TURNING PATHS SHEET 1	2
C11	GROUND FLOOR TURNING PATHS SHEET 2	2
C12	GROUND FLOOR TURNING PATHS SHEET 3	2
C13	GROUND FLOOR TURNING PATHS SHEET 4	2





OTHERWISE







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LAND & HOUSING CORPORATION GREENVIEW CONSULTING Pty Ltd

STANTON DAHL

GREENVIEW CONSULTING Ptv Ltd GREENVIEW CONSULTING Pty Ltd

STRUCTURAL CONSULTANT

IYDRAULIC CONSULTAN

ANDSCAPE CONSULTAN

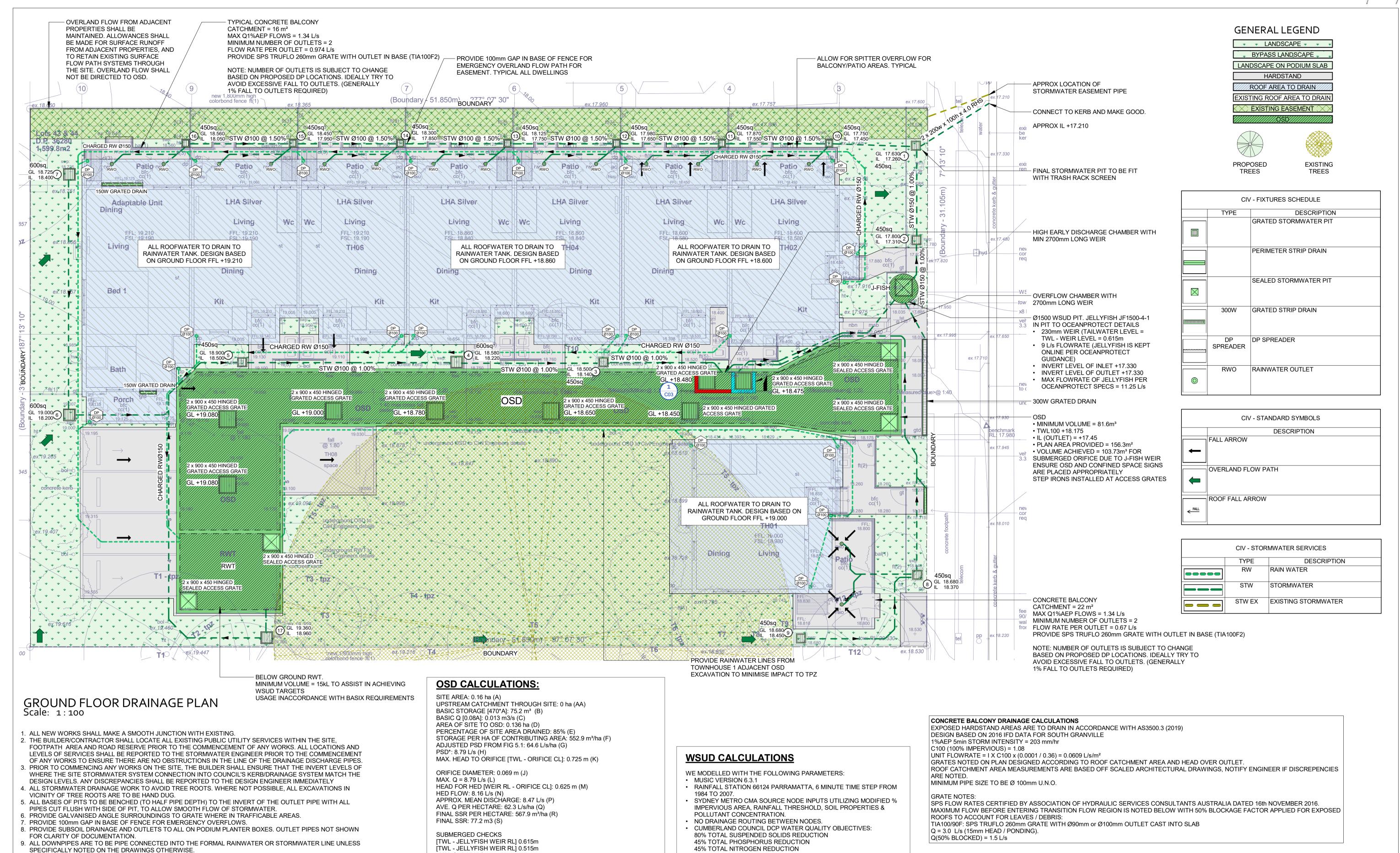


Family & Community Services
Land & Housing Corporation **GREATER WESTERN SYDNEY REGION**

PROPOSED DEVELOPMENT

70-72 Gordon Street. South Granville.

PRELIMINARY **NOTES & LEGENDS** 1:100 230291 01.11.2023 **AMcK** C01





10. ALL PIPES TO BE 100mmØ @ 1% MINIMUM UNLESS NOTED OTHERWISE.

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

SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER.

11. ALL BASES OF PITS TO BE BENCHED TO THE INVERT OF THE OUTLET PIPE WITH ALL PIPES CUT FLUSH WITH

LOCKED BAG 4001 ASHFIELD NSW BC1800 PHONE No (02) 8753 8000 FAX No (02) 8753 8888 www.facs.nsw.gov.au



PRELIMINARY ISSU 3 JPS PRELIMINARY ISSU TENDER ISSUE 23 JPS PRELIMINARY ISSUE BY The copyright of this document & design remains with Greenview Consulting Pty Ltd

MAX. Q: 8.074 L/s

HED FLOW 7.39 L/s

FINAL SSR: 82.6m3

AVE. Q PER ha: 56.8 L/s/ha

FINAL SSR PER ha: 607.3 m³/ha

APPROX MEAN DISCHARGE Q: 7.73 L/s





90% GROSS POLLUTANT REDUCTION

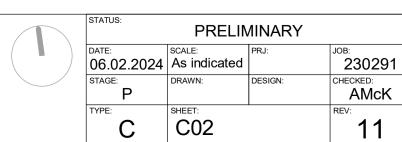
NOTE: ALL PITS TO BE FIT WITH OCEANPROTECT

OCEANGUARD IN SURFACE FLOW CONFIGURATION

PROPOSED DEVELOPMENT

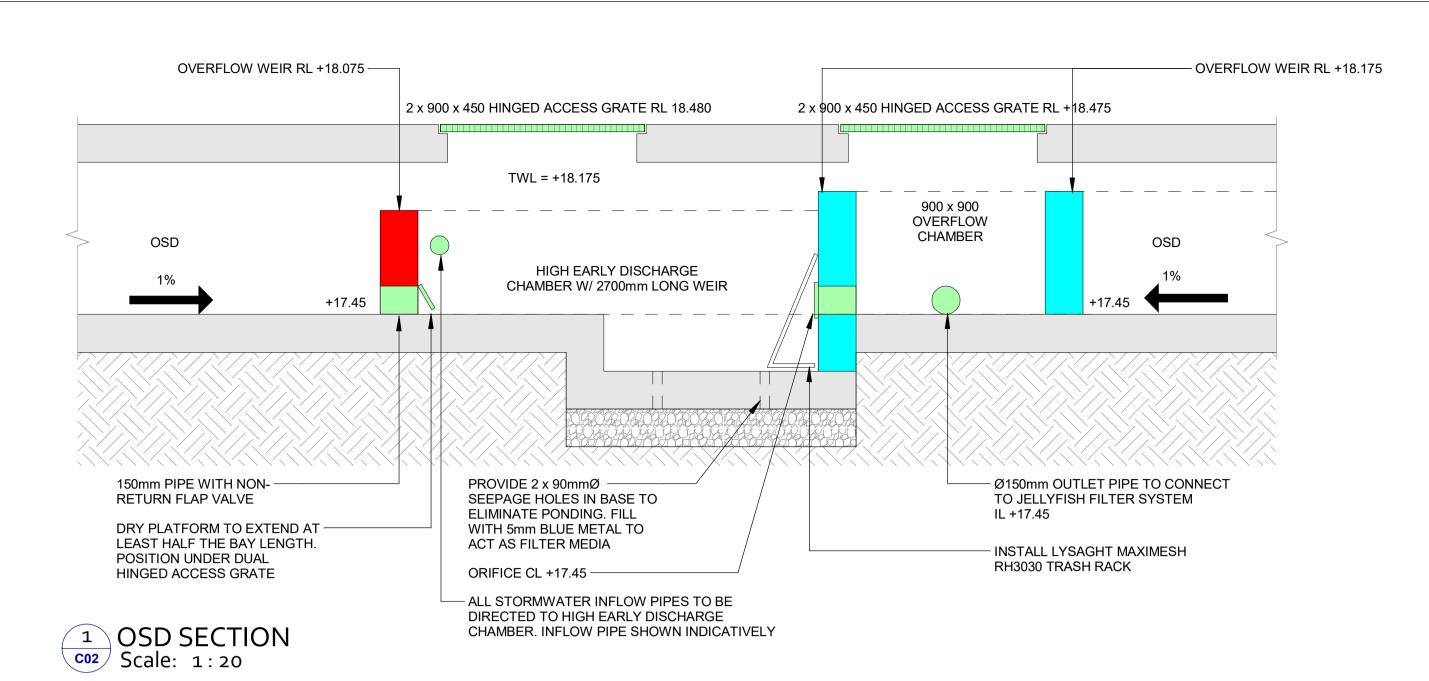
> 70-72 Gordon Street, South Granville, NSW

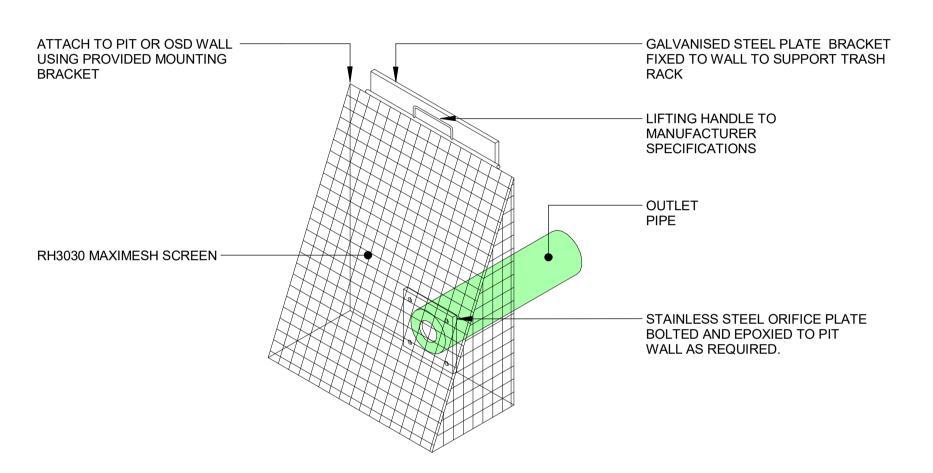
GROUND FLOOR DRAINAGE PLAN

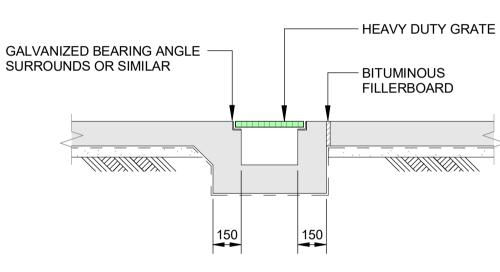


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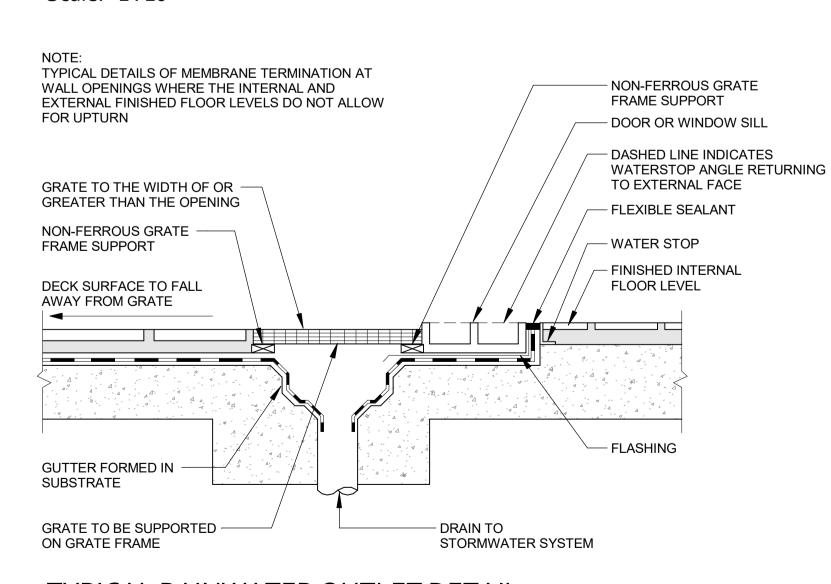




TYPICAL GRATED DRAIN DETAIL Scale: 1:20

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

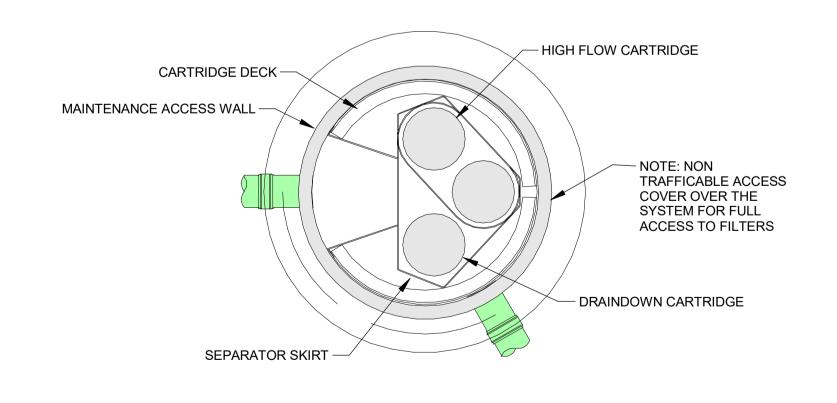
TYPICAL TRASH SCREEN DETAIL Scale: 1:10



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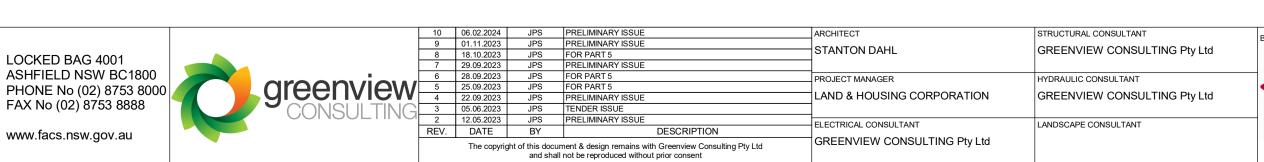


JELLYFISH STORMFILTER PLAN

OCEANPROTECT JELLYFISH Scale: 1:20

TYPICAL RAINWATER OUTLET DETAIL Scale: 1:20

PLANNING

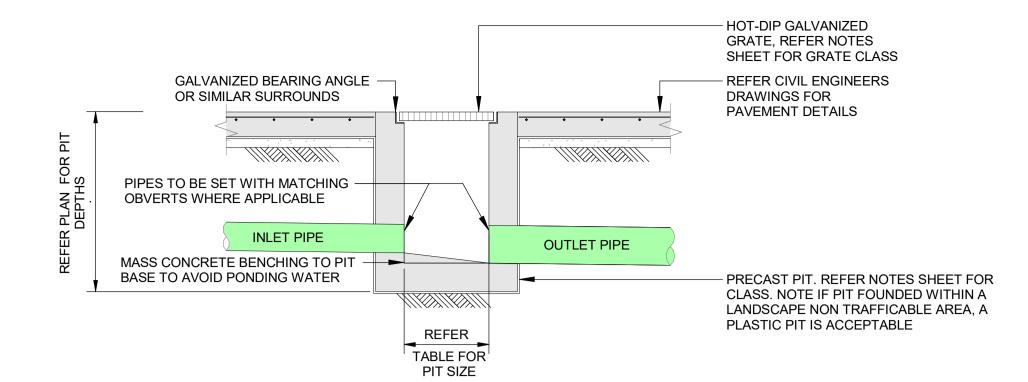






PROPOSED DEVELOPMENT	SITE STORMWATER DETAILS SHEET
AT	
70-72 Gordon Street, South Granville,	

PRELIMINARY				
DATE: 06.02.2024	SCALE: As indicated	PRJ:	^{ЈОВ:} 230291	
STAGE:	DRAWN:	DESIGN:	CHECKED: AMCK	
TYPE:	SHEET: C03		10	

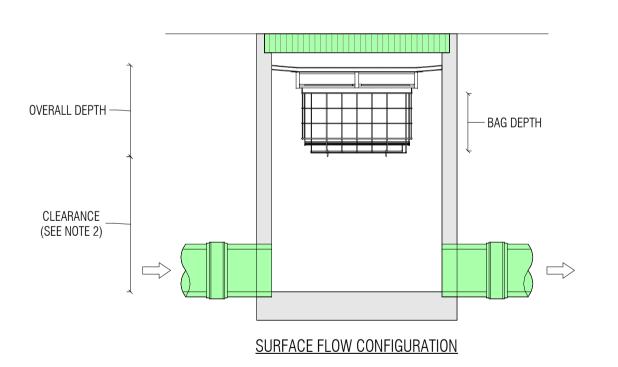


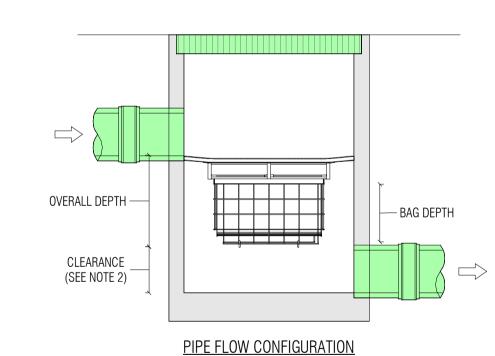
- 1. ENSURE CLIMB IRONS ARE PROVIDED UNDER LID AT 300 CTS TO COUNCIL'S
- SPECIFICATIONS WHERE PIT DEPTH IS DEEPER THAN 1000. 2. GREENVIEW RECOMMENDS THE PLUMBER PROVIDES 90Dia x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH INLET PIPE.

PIT SIZE

DEPTH PIT DIMENSION	
0 - 600	450 mm x 450 mm
600 - 900	600 mm x 600 mm
900 - 1200	600 mm x 900 mm
1200 +	900 mm x 900 mm

TYPICAL CONCRETE INLET PIT - CONCRETE SURFACE Scale: 1:20

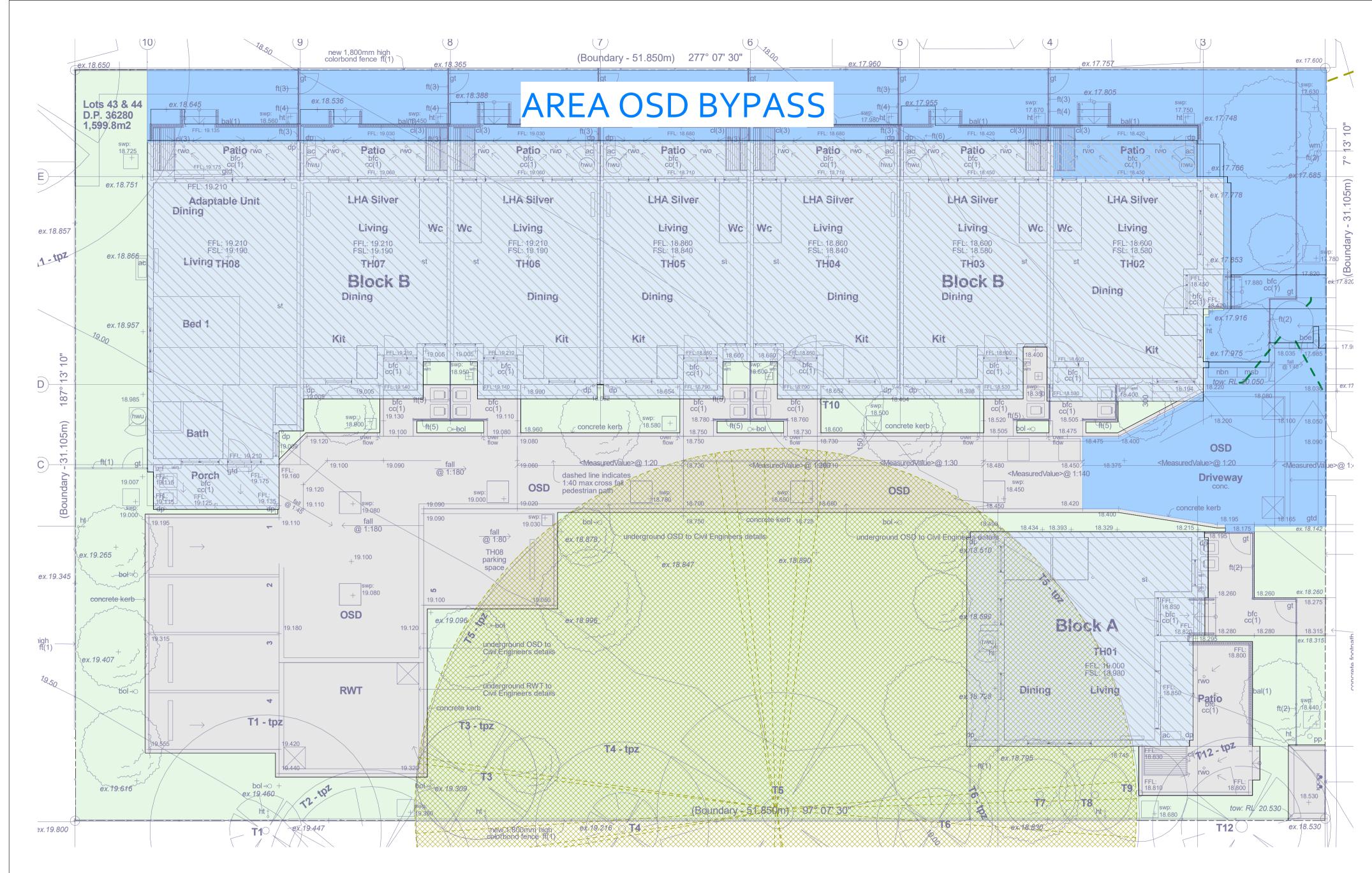




WSUD PIT BASKET DETAIL Scale: 1:20

NSW



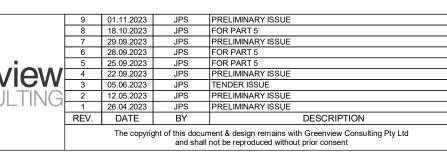


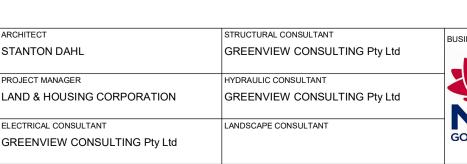
OSD CATCHMENT PLAN Scale: 1:100











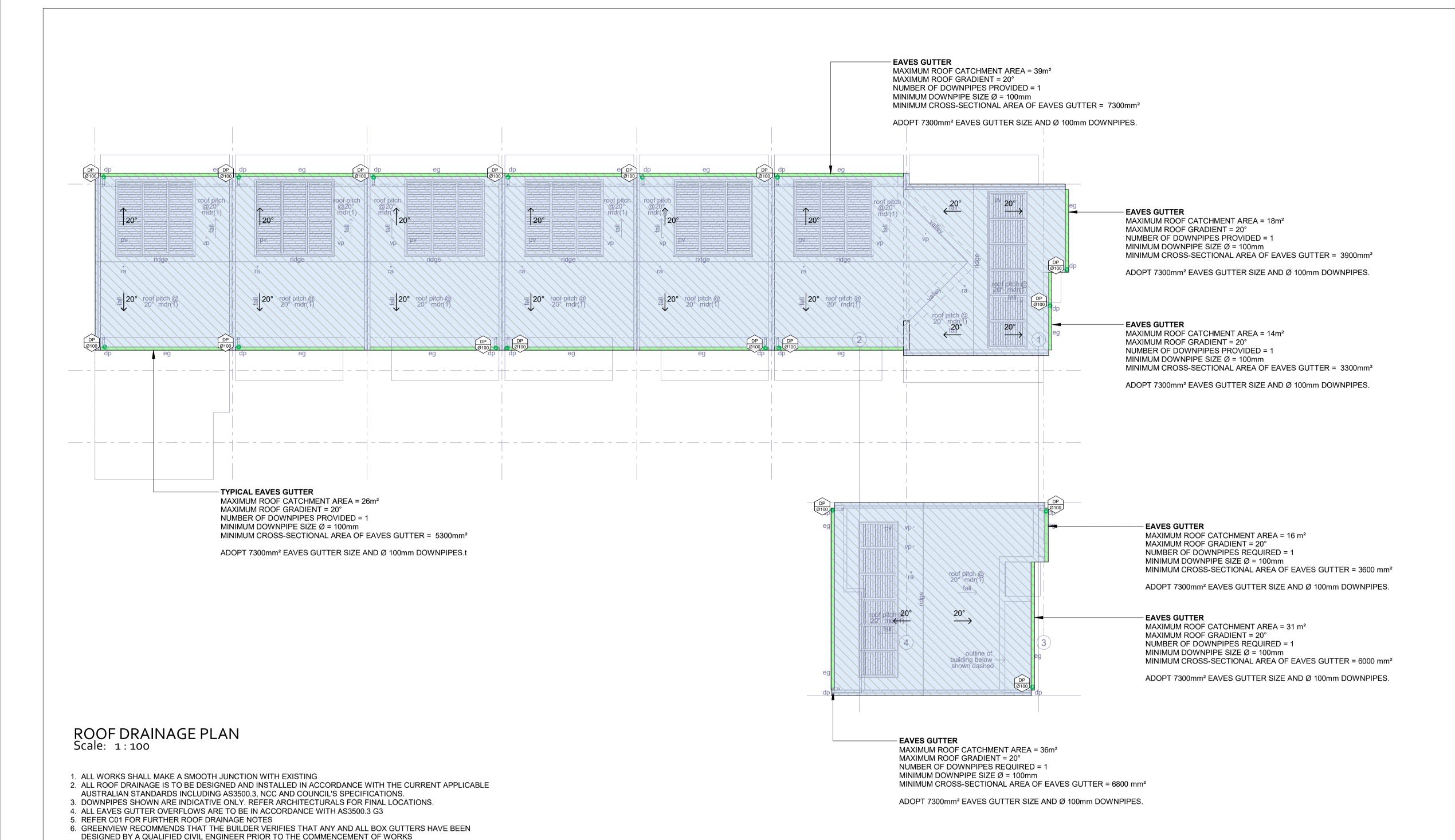
STANTON DAHL



ROJECT:	TITLE:
PROPOSED DEVELOPMENT	OSD CATCHMENT
AT	
70-72 Gordon Street, South Granville,	

PRELIMINARY			
DATE: 01.11.2023	SCALE: 1:100	PRJ:	JOB: 23029 ²
STAGE:	DRAWN:	DESIGN:	CHECKED: AMcK
TYPE:	SHEET:	•	REV:
С	C04		9
	DATE: 01.11.2023 STAGE: P	PRELIN DATE: SCALE: 1: 100 STAGE: DRAWN: P TYPE: SHEET:	PRELIMINARY





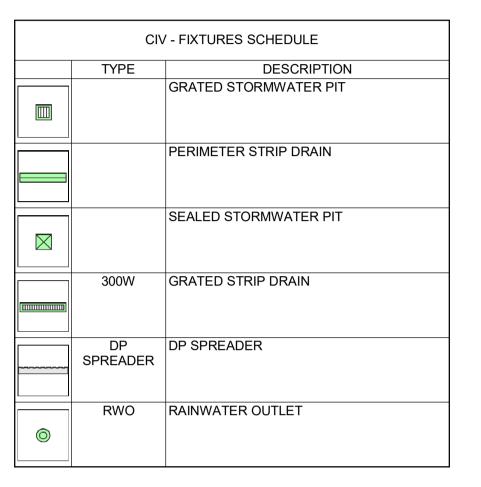
GENERAL LEGEND

DVDACC LANDCCADE
LANDSCAPE ON PODIUM SLAB
HARDSTAND
ROOF AREA TO DRAIN
EXISTING ROOF AREA TO DRAIL
EXÎSTÎNG ÊAŞEMÊNT 🗙
//////////////////////////////////////









CIV - STANDARD SYMBOLS				
	DESCRIPTION			
—	FALL ARROW			
←	OVERLAND FLOW PATH			
FALL	ROOF FALL ARROW			

CIV - STORMWATER SERVICES						
	TYPE DESCRIPTION					
	RW	RAIN WATER				
	STW	STORMWATER				
	STW EX	EXISTING STORMWATER				



ROOF DRAINAGE CALCULATIONS

ROOF DRAINAGE NOTES ROOF CATCHMENT AREA MEASUREMENTS ARE BASED OFF SCALED ARCHITECTURAL DRAWINGS, NOTIFY ENGINEER IF DISCREPANCIES ARE NOTED. NO BOX GUTTERS NOMINATED ON ARCHITECTURAL PLANS. NOTIFY ENGINEER IF OTHERWISE.

EAVES GUTTERS ARE TO BE DESIGNED FOR 20 YEAR ARI STORM EVENTS, NOTING 5%AEP IS EQUIVALENT TO 20 ARI (AS3500.3 TABLE 3.3.4 NOTE 2)

MINIMUM FALL OF EAVES GUTTERS TO BE NOT LESS THAN 1:500 UNLESS FIXED TO METAL FASCIAS (NCC 2019 VOL 2 CLAUSE 3.5.3.4.A.i)

7. GREENVIEW RECOMMENDS A SPECIFIC INSPECTION AND CERTIFICATION BY A QUALIFIED CIVIL ENGINEER OF

8. ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER OR STORMWATER LINE UNLESS

ANY AND ALL BOX GUTTERS INSTALLED ON THE PROJECT PRIOR TO OCCUPATION CERTIFICATE.

SPECIFICALLY NOTED ON THE DRAWINGS OTHERWISE.

DESIGN BASED ON 2016 IFD DATA FOR SOUTH GRANVILLE

5% AEP 5min STORM INTENSITY 20I5 = 160 mm/hr

MINIMUM DOWNPIPE SIZE TO BE Ø100mm U.N.O.

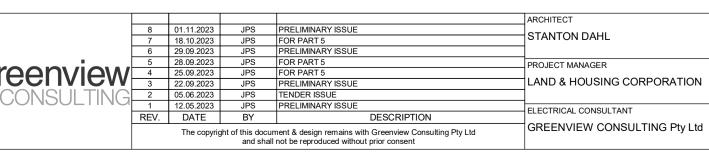
ROOF DRAINAGE IS DESIGNED IN ACCORDANCE WITH AS3500.3 (2018)

MINIMUM CROSS SECTIONAL AREA OF EAVES GUTTER TO BE 7300 mm² U.N.O













PROPOSED DEVELOPMENT

70-72 Gordon Street, South Granville, NSW

ROOF DRAINAGE PL

(

STATUS:	MINARY		
DATE: 01.11.2023	SCALE: As indicated	PRJ:	JOB: 2302 9
STAGE:	DRAWN:	DESIGN:	CHECKED: AMc
TYPE:	SHEET:		REV:
С	C06		8

1:100





GROUND FLOOR - B85 ENTRY 1 Scale: 1:200

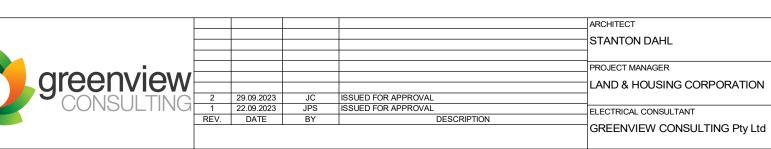


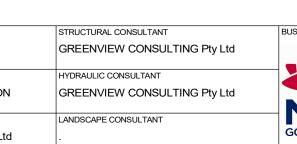
GROUND FLOOR - B85 EXIT 1 Scale: 1:200













ROPOSED	
EVELOPMENT	

70-72 Gordon Street, South Granville, NSW

IIILE:	
GROUND FLOOR TURNING PATHS SHEET 1	

STATUS:	STATUS: PRELIMINARY				
	SCALE:	PRJ:	JOB:		
29.09.20	23: 200		230291		
STAGE:	DRAWN:	DESIGN:	CHECKED:		
Ρ			AMcK		
TYPE:	SHEET:	•	REV:		
C	C10		2		
	- •				





GROUND FLOOR - B85 ENTRY 2 Scale: 1:200

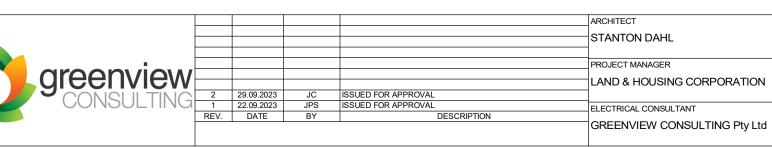


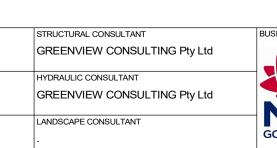
GROUND FLOOR - B85 EXIT 2 Scale: 1:200











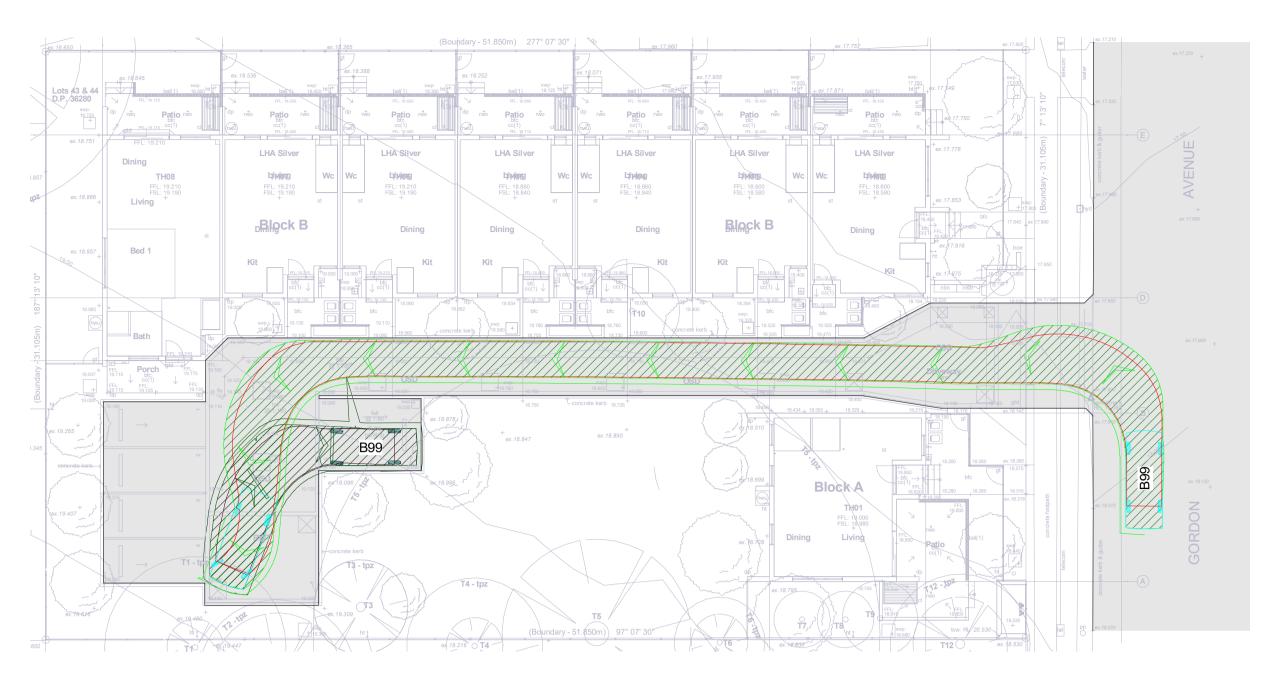


PROJECT:	TITLE:
PROPOSED DEVELOPMENT	GROUND F PATHS SH
AT	

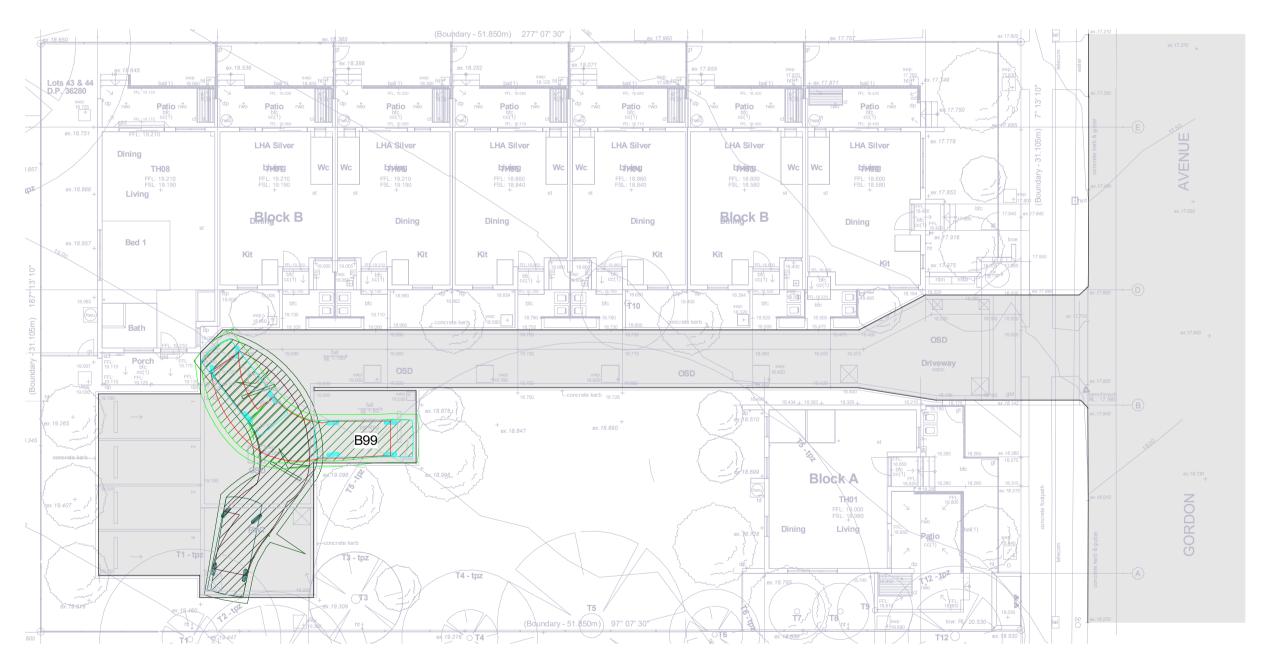
70-72 Gordon Street, South Granville, NSW

ITLE:	STA
GROUND FLOOR TURNING	DAT
PATHS SHEET 2	29
	STA

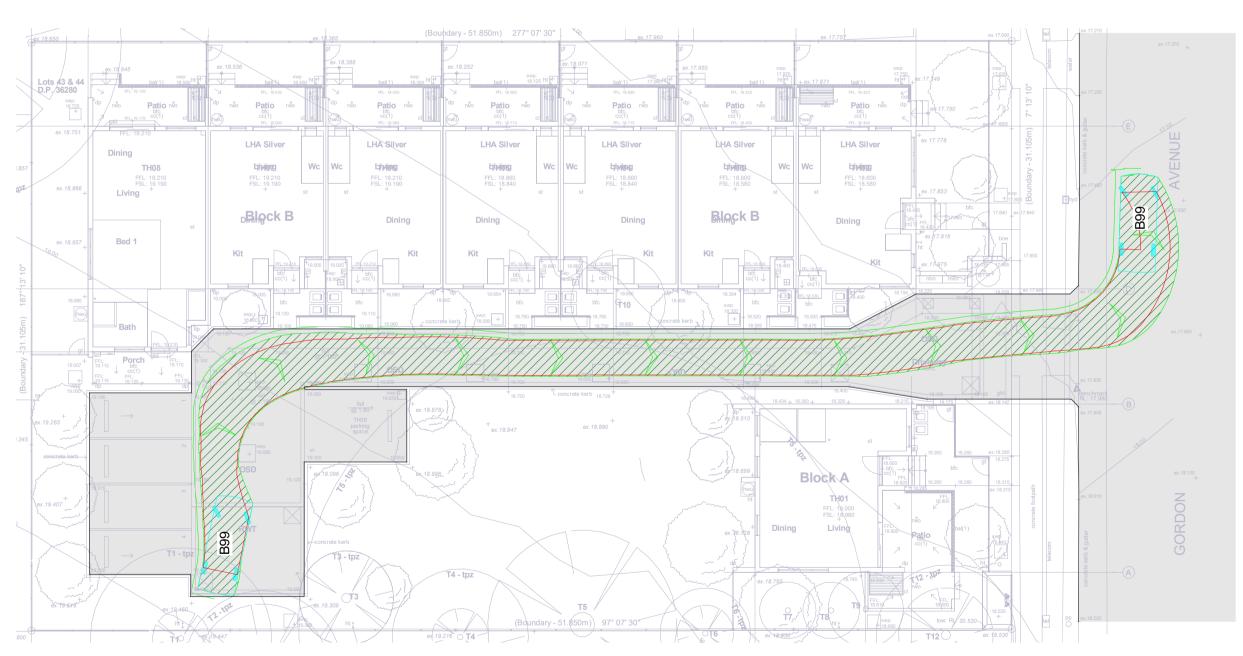




GROUND FLOOR - B99 ENTRY 1 Scale: 1:200



GROUND FLOOR - B99 EXIT 1a Scale: 1:200

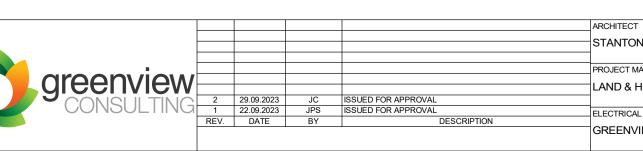


GROUND FLOOR - B99 EXIT 1b Scale: 1:200









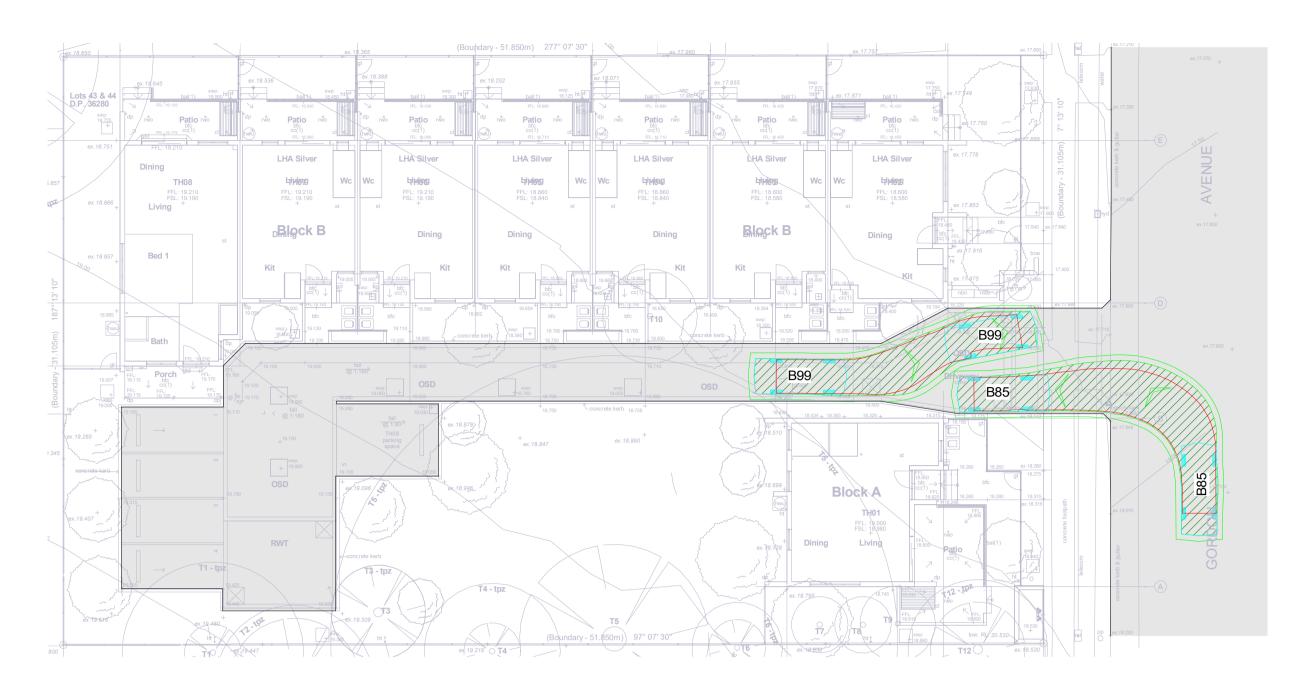




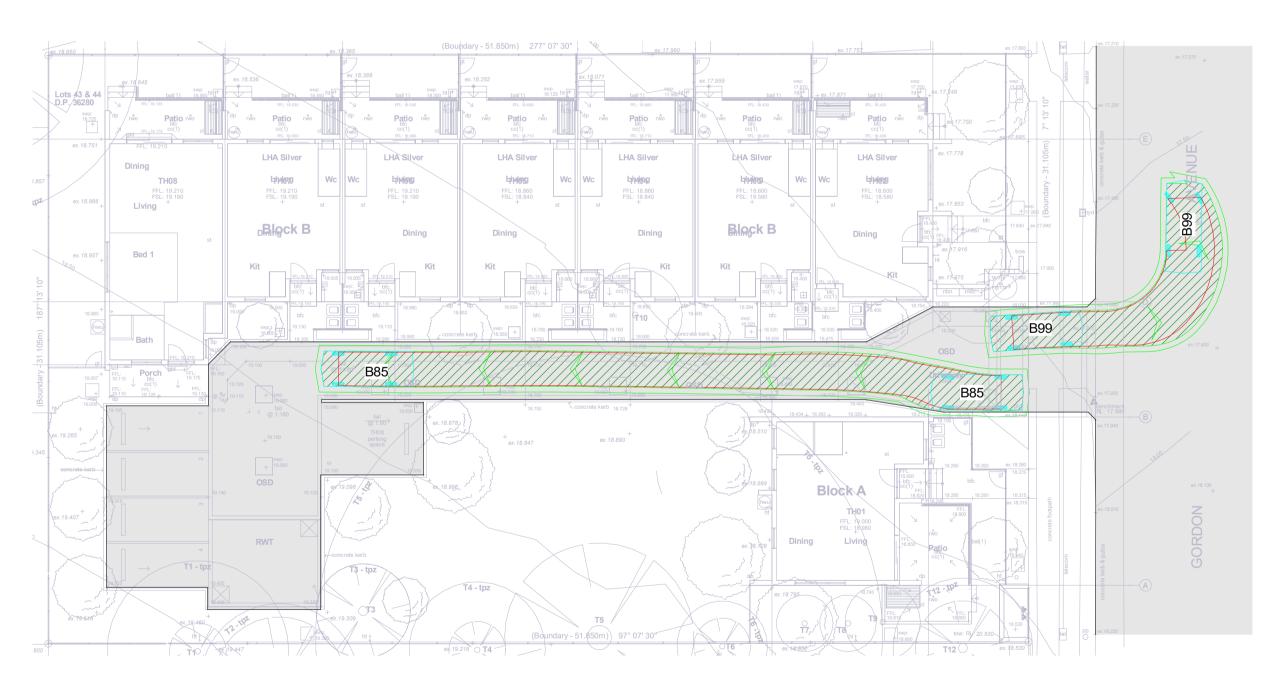
	TITLE:
OPOSED VELOPMENT	GROUND FLOO PATHS SHEET
	l .

EL COR ELIDAMAIO	PRELIMINARY			
FLOOR TURNING	DATE:	SCALE:	PRJ:	JOB:
HEET 3	29.09.20	023: 200		23029
	STAGE:	DRAWN:	DESIGN:	CHECKED: AMCK
	TYPE:	SHEET:		REV:
	C	C12		2

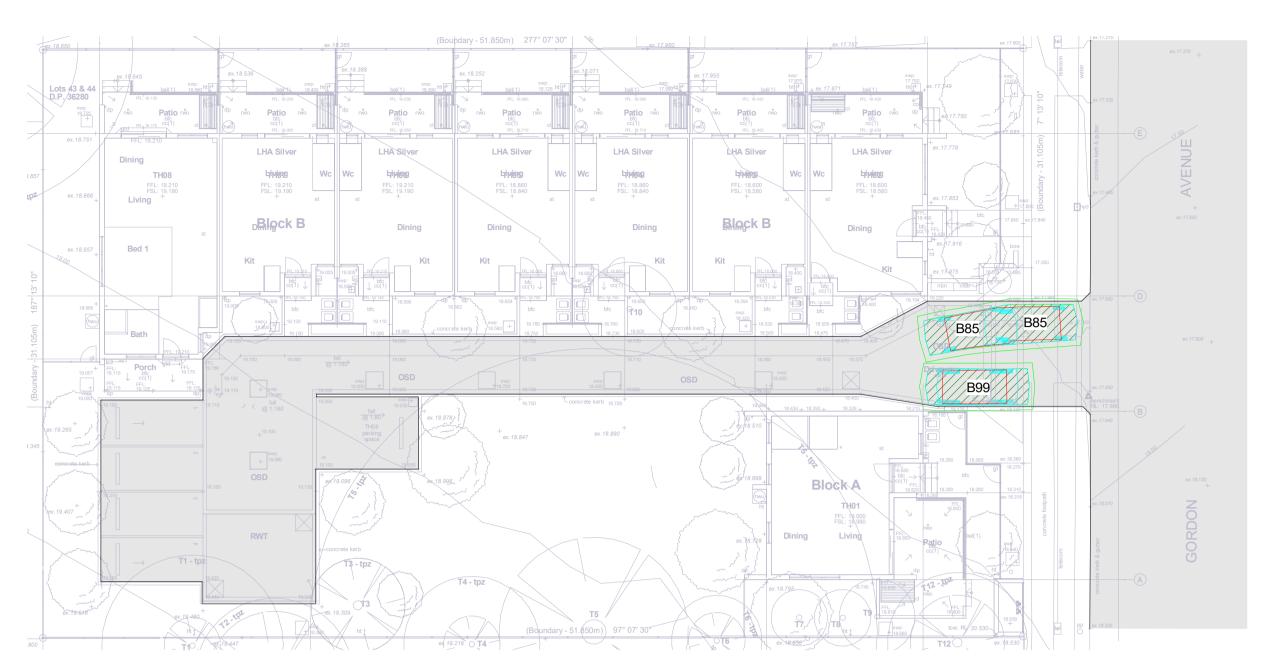




GROUND FLOOR - B85 & B99 PASSINGa Scale: 1:200



GROUND FLOOR - B85 & B99 PASSINGC Scale: 1:200

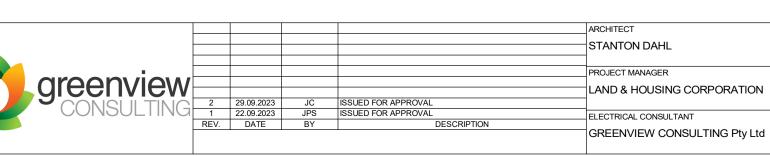


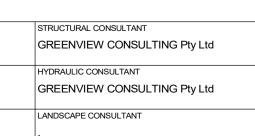
GROUND FLOOR - B85 & B99 PASSINGb Scale: 1:200















70-72 Gordon Street, South Granville, NSW

IIILE.	
GROUND FLOOR TURNING PATHS SHEET 4	

STATUS:	PRFI II	MINARY	
DATE: 29.09.20	SCALE:	PRJ:	_{ЈОВ:} 230291
STAGE:	DRAWN:	DESIGN:	CHECKED: AMCK
TYPE:	SHEET:		REV:

PROPOSED DEVELOPMENT

70-72 Gordon Street, South Granville, NSW greenview Job No: 230291

GENERAL INSTRUCTIONS

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

LAND DISTURBANCE INSTRUCTIONS

- DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR
- ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR
- . ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT
- 4 WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN
- CONSTRUCT DIVERSION DRAINS AS REQUIRED. . INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB

B. CONSTRUCT THE STABILISED SITE ACCESS.

- E. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS
- . CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS
- SOON AS PRACTICABLE H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER
- THE PERMANENT LANDSCAPING HAS BEEN COMPLETED. . ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES SILTATION FENCING AND CATCH DRAIN SPACING.
- . ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

SITE MAINTENANCE INSTRUCTIONS

- THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO: A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY
- REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
- OF THAT STRUCTURE HAS BEEN EXCEEDED D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED. THE EROSION HAZARD AND NOT TO INITIATE UPGRADING OR REPAIR AS NECESSARY

REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY

- E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN
- MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.

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

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

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

SAFETY IN DESIGN NOTES

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

SEDIMENT CONTROL INSTRUCTIONS

- 1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO
- THEIR SOURCE SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH
- OF AT LEAST 0.6 METRES. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS
- AND WATERWAYS CANNOT OCCUR. 4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF
- HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS. 5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE
- PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE 6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL
- AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY . ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO

SOIL EROSION CONTROL INSTRUCTIONS

1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS

PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT

- OTHERWISE NOTED THAN: 2(H) 1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
- 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 • 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 20 METRES. 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES 2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL
- BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT. 3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF
- "MANAGING URBAN STORMWATER-SOILS AND CONSTRUCTION". DEPT OF HOUSING 1998 (BLUE BOOK), FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS 4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM
- GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS
- FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
- PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS, NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY FOLLOW
- UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY 8 REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

- 1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS. FLOOD PHONE AREAS. STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS
- STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS. ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES
- PROVIDED. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- PROVIDE DESIGNATED VEHICLILAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

PROCEDURE FOR DE-WATERING

ENSURE PERMISSION FOR DE-WATERING IS RECEIVED FROM AUTHORITIES BEFORE PUMPING OUT. AN ON-SITE TREATMENT PROCESS DISCHARGING TO THE STORMWATER SYSTEM WILL BE IMPLEMENTED. ALL SITE WATERS DURING CONSTRUCTION WILL BE CONTAINED ON SITE AND RELEASED ONLY WHEN pH IS BETWEEN 8.5 & 6.5, SUSPENDED SOLIDS ARE LESS THAN 50mg/L. TURBIDITY LESS THAN 100 NTU'S. OIL AND GREASE LESS THAN 10mg/L AND BIOCHEMICAL OXYGEN

DEMAND (BOD5) LESS THAN 30mg/L (FOR STORMS LESS THAN 1 IN

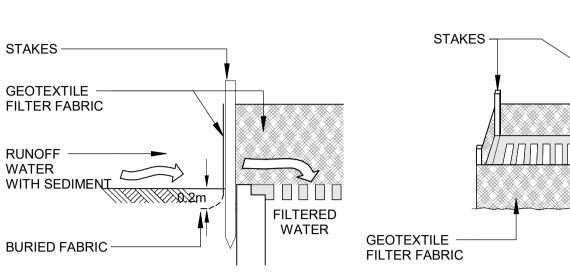
- 5 YEAR EVENTS) METHODS OF SAMPLING AND ANALYSIS OF WATER QUALITY WILL BE IN ACCORDANCE WITH THE APPLICABLE METHOD LISTED IN THE EPA PUBLISHED APPROVED METHODS FOR THE SAMPLING ANALYSIS OF WATER POLLUTANTS IN NEW SOUTH WALES. WHERE LABORATORY ANALYSIS IS REQUIRED AS INDICATED BY IN SITU TESTING, APPROPRIATE SAMPLE BOTTLES AND PRESERVATIVES WILL BE USED AND GUIDANCE FOR THE SAMPLING METHOD OBTAINED FROM APPLICABLE PARTS OF
- PRACTICAL BY A NATA REGISTERED LABORATORY CERTIFIED TO PERFORM THE APPLICABLE ANALYSIS. AS EXCAVATION TO TOP SOIL PROGRESSES, ANY WATER COLLECTED AT THE BOTTOM OF EXCAVATIONS WILL BE DIVERTED TO A TEMPORARY SEDIMENTATION BASIN OR SETTLEMENT TANK. IF THE WATER CONTAINS ONLY SEDIMENTS, IT WILL BE FILTERED AND PUMPED TO STORMWATER BEFORE THIS CAN HAPPEN IT MUST CONTAIN LESS THAN 50mg/L TOTAL SUSPENDED SOLIDS.

AS5667.1 AND AS5667.6. ANALYSIS WILL BE UNDERTAKEN WHERE

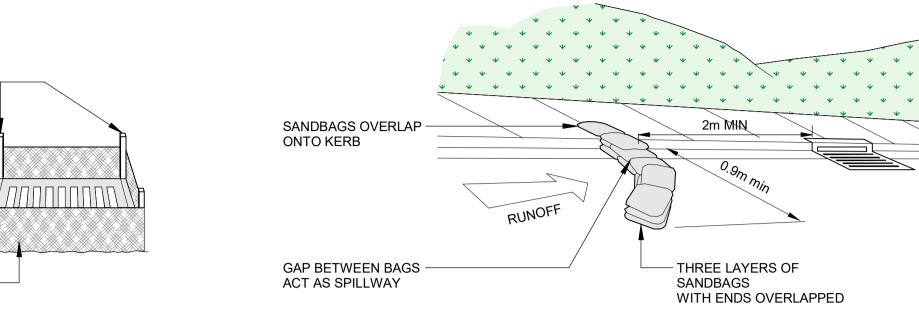
POLLUTED WATER MUST NOT ENTER THE STORMWATER SYSTEM. IN SOME CIRCUMSTANCES. A LIQUID WASTE COMPANY MAY BE REQUIRED TO COLLECT CONTAMINATED WATER FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.

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

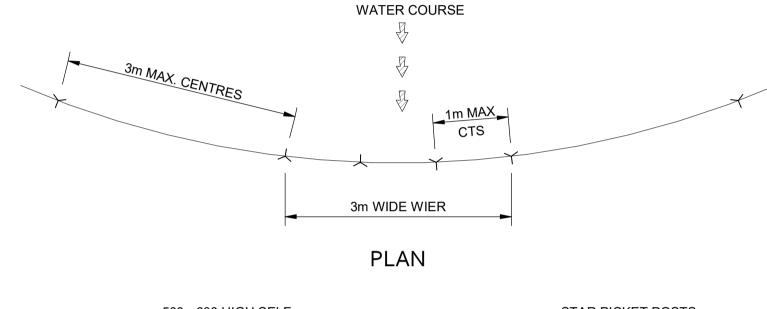
WHERE WORK INVOLVES EXCAVATION OR STOCKPILING OF RAW OR LOOSE MATERIALS. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROVIDE WHOLLY WITHIN THE SITE WHILST WORK IS BEING CARIED OUT IN ORDER TO PREVENT SEDIMENT AND SILT FROM SITE WORKS BEING CONVEYED BY STORMWATER INTO COUNCIL'S STORMWATER SYSTEM. NATURAL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

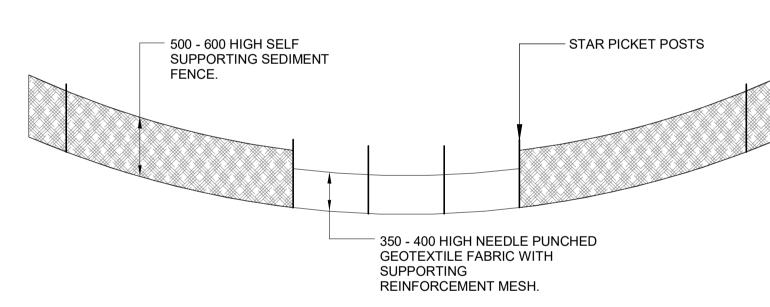


INLET SEDIMENT TRAP



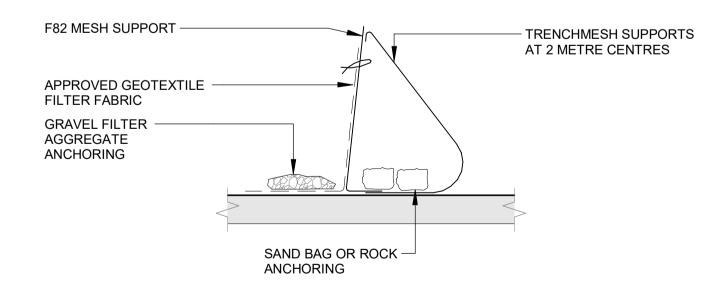
SANDBAG SEDIMENT TRAP





ELEVATION

ESM_SEDIMENT FENCE WEIR Scale: 1:20



- 1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL
- TO THE CONTOURS OF THE SITE. 2. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH

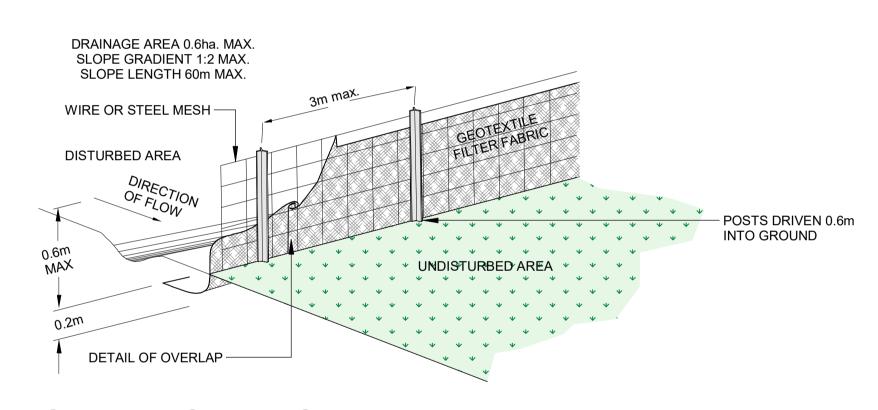
STRUCTURAL CONSULTANT

DRAULIC CONSULTAN

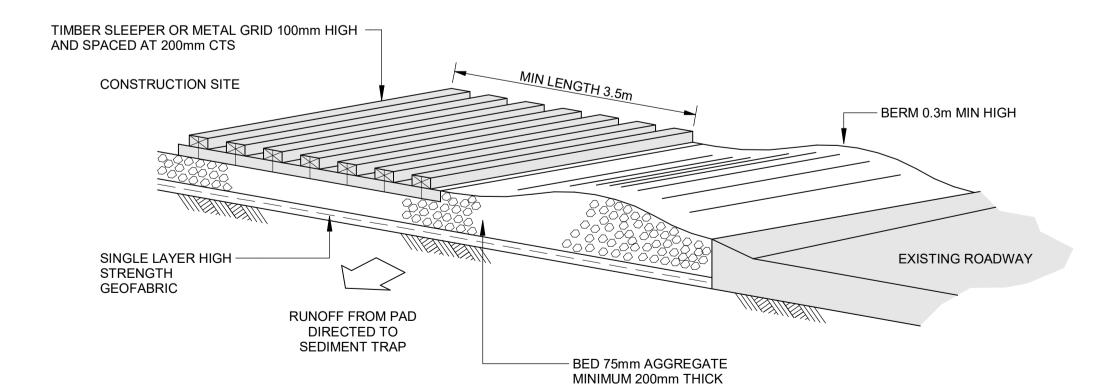
ANDSCAPE CONSULTAN

- WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER. 3. JOIN SECTIONS OF FABRIC AT A SUPPORT WITH A 150mm OVERLAP.
- 4. REFER TO DETAIL SD 6-9 "BLUE BOOK"

SILT FENCE BARRIER DETAIL Scale: 1:20



SEDIMENT SILT FENCE Scale: 1:20



TEMPORARY CONSTRUCTION EXIT



LOCKED BAG 4001 ASHFIELD NSW BC1800 PHONE No (02) 8753 8000 FAX No (02) 8753 8888



					_
					ARCHITECT
					STANTON DAHL
,					PROJECT MANAGER
					LAND & HOUSING CORPORATION
ì					
1	1	18.10.2023	JPS	FOR PART 5	ELECTRICAL CONSULTANT
	REV.	DATE	BY	DESCRIPTION	
		The copyrig	ght of this docur and shall	GREENVIEW CONSULTING Pty Ltd	



Family & Community Services
Land & Housing Corporation GREATER WESTERN SYDNEY REGION

PROPOSED DEVELOPMENT 70-72 Gordon Street, South Granville, **NOTES & LEGENDS**

230291 18.10.2023 As indicated DA **AMcK** ESM1

• • • • • • CHAIN WIRE FENCE

SILT FENCE

SITE MANAGEMENT LEGEND

ESM - SITE MANAGEMENT SCHEDULE

SKIP BIN (PROVIDE COVER)

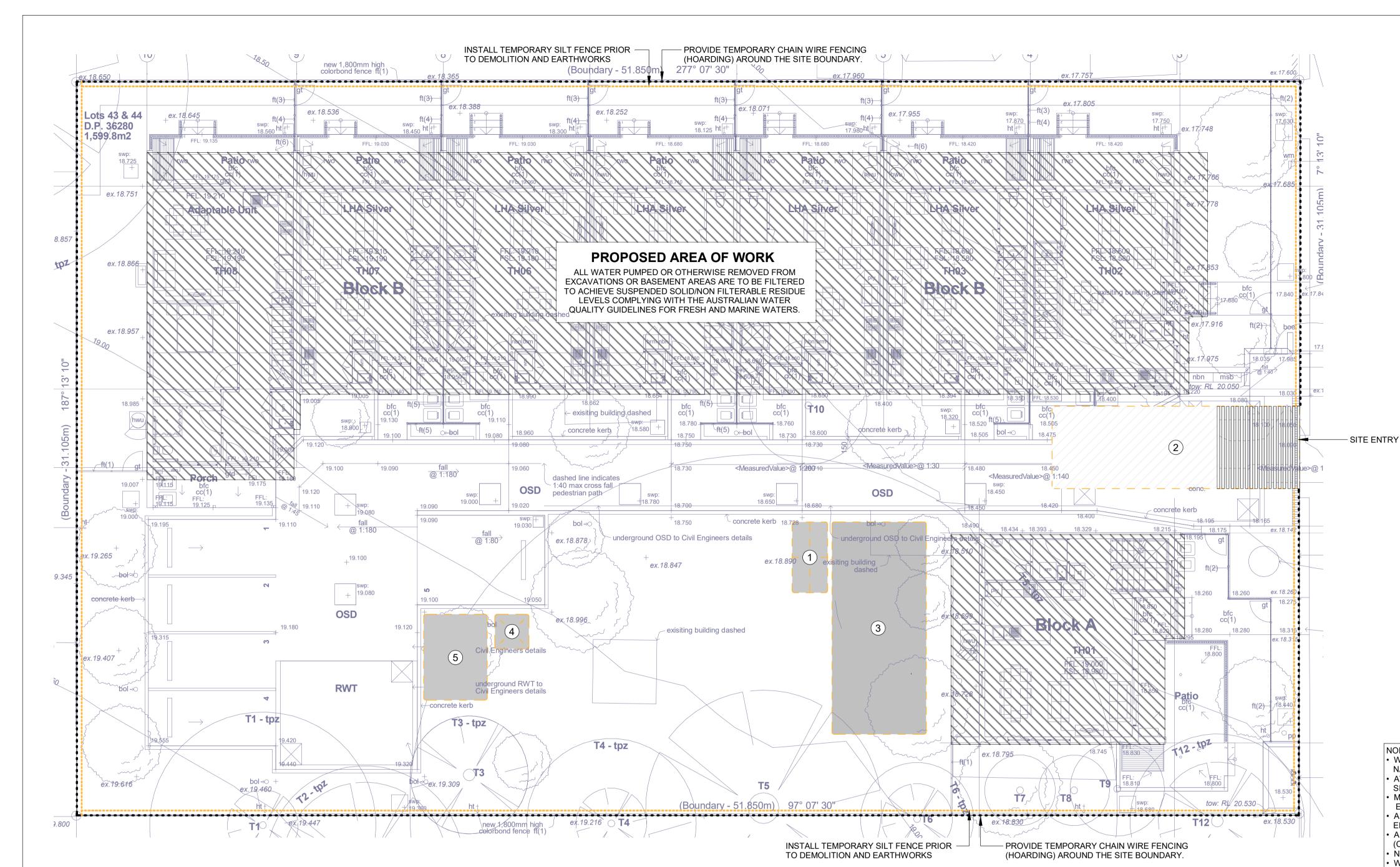
SITE ACCESS GRATE

NECESSARY) TOILET FACILITY SITE SHED

DESCRIPTION

MATERIALS STOCKPILE (RELOCATE AS





ENVIRONMENTAL SITE MANAGEMENT LAYOUT

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

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

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

- NOISE CONTROL WHERE POSSIBLE, STRATEGICALLY PLACE NOISE-GENERATING PLANT / EQUIPMENT TO TAKE ADVANTAGE OF
- NATURAL SCREENING (E.G. BUILDINGS) AVOID PLACING NOISE-GENERATING PLANT / EQUIPMENT CLOSE TOGETHER AND/OR OPERATE
- SIMULTANEOUSLY
- MAINTAIN ALL PLANT & EQUIPMENT TO MINIMISE NOISE EMISSIONS (E.G. REPAIR BROKEN SILENCING EQUIPMENT, TIGHTEN RATTLING COMPONENTS ETC)
- ALL PLANT & EQUIPMENT TO BE OPERATED IN THE CORRECT MANNER TO AVOID UNNECESSARY NOISE
- ALL DELIVERIES TO SITE TO BE IN ACCORD WITH THE RELEVANT CONSTRUCTION TRAFFIC MANAGEMENT PLAN
- NO PUBLIC ADDRESS SYSTEMS TO BE USED EXCEPT IN THE CASE OF EMERGENCIES
- WHERE NECESSARY, FIT PLANT WITH SILENCERS AND/OR OTHER NOISE ATTENUATION MEASURES
- ENSURE CONSTRUCTION VEHICLES AND PLANT/EQUIPMENT ARE TURNED OFF WHEN NOT IN USE (I.E. AVOID

VIBRATION MANAGEMENT

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

DUST CONTROL

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

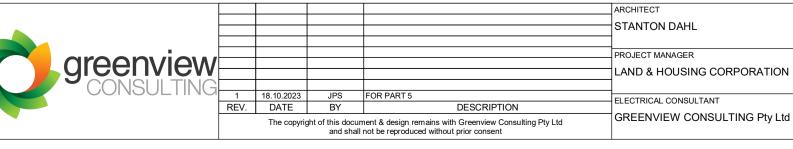
- SEGRATE AND COLLECT WASTE REGULARLY TO ENSURE ODOURS ARE MINIMISED NO BURNING-OFF OF WASTE AT ANY TIME
- REMOVE WASTE BINS FROM SITE REGULARLY

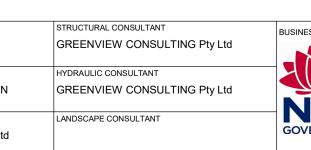














PROPOSED DEVELOPMENT

70-72 Gordon Street, South Granville, NSW

TITLE:	
ENVIRONMENTAL SITE MANAGEMENT PLAN	

STATUS: DA			
DATE: 18.10.2023	SCALE: 1:100	PRJ:	
STAGE: DA	DRAWN:	DESIGN:	
TYPE:	SHEET:		
	ESM2		

230291 **AMcK**

1:100