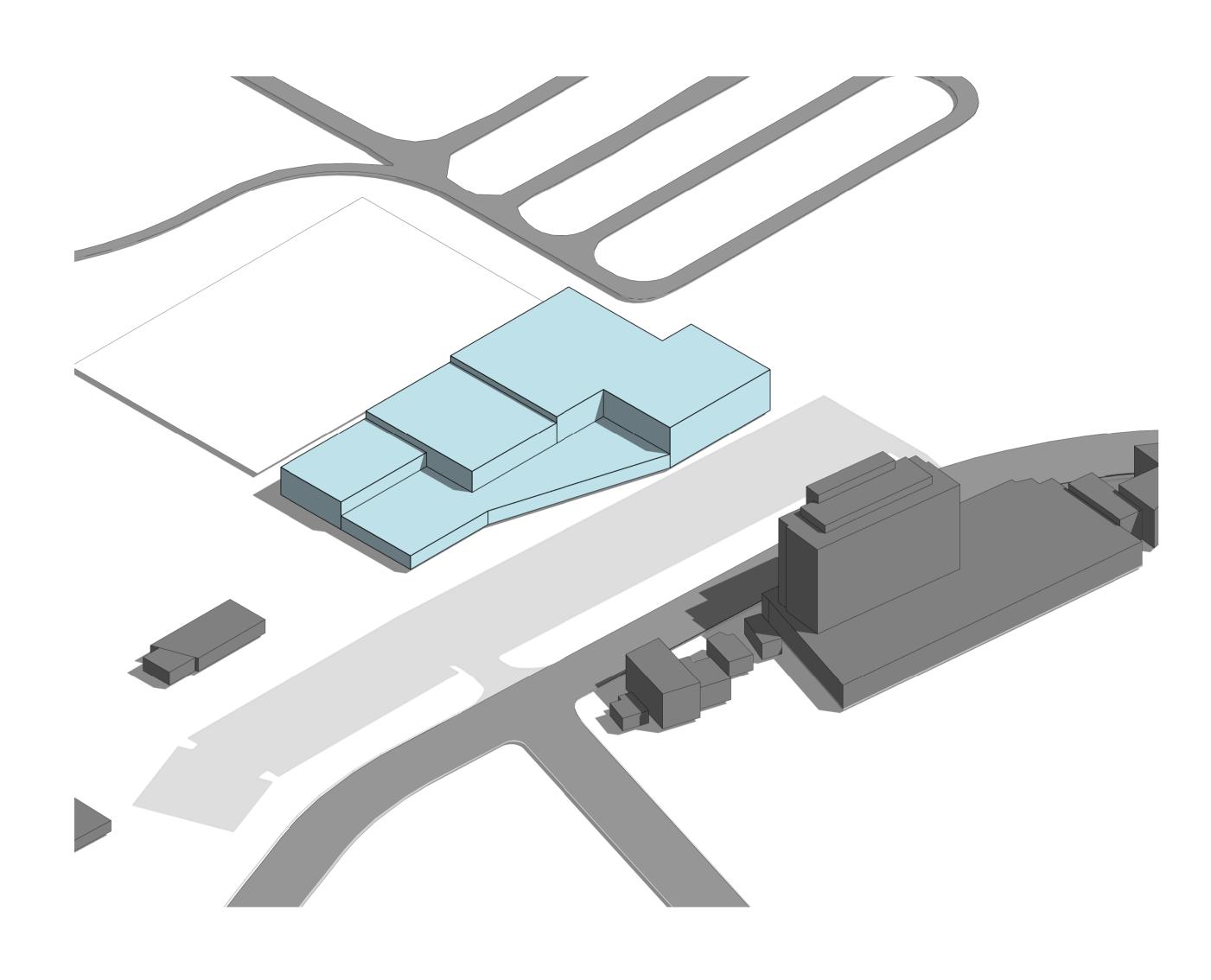
# Architectural Drawings

DA000	COVER SHEET	D	31.08.20
DA011	EXISTING AND DEMOLITION - SITE PLAN	D	31.08.20
DA012	SITE PLAN	D	31.08.20
DA051	SITE SECTIONS	D	31.08.20
DA091	SHADOW ANALYSIS	D	31.08.20
DA095	3D AXONOMETRICS	D	31.08.20



# HEFFRON CENTRE CONCEPT DEVELOPMENT APPLICATION

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Location Plan
417-439R Bunnerong
Rd, Maroubra, NSW,
2035



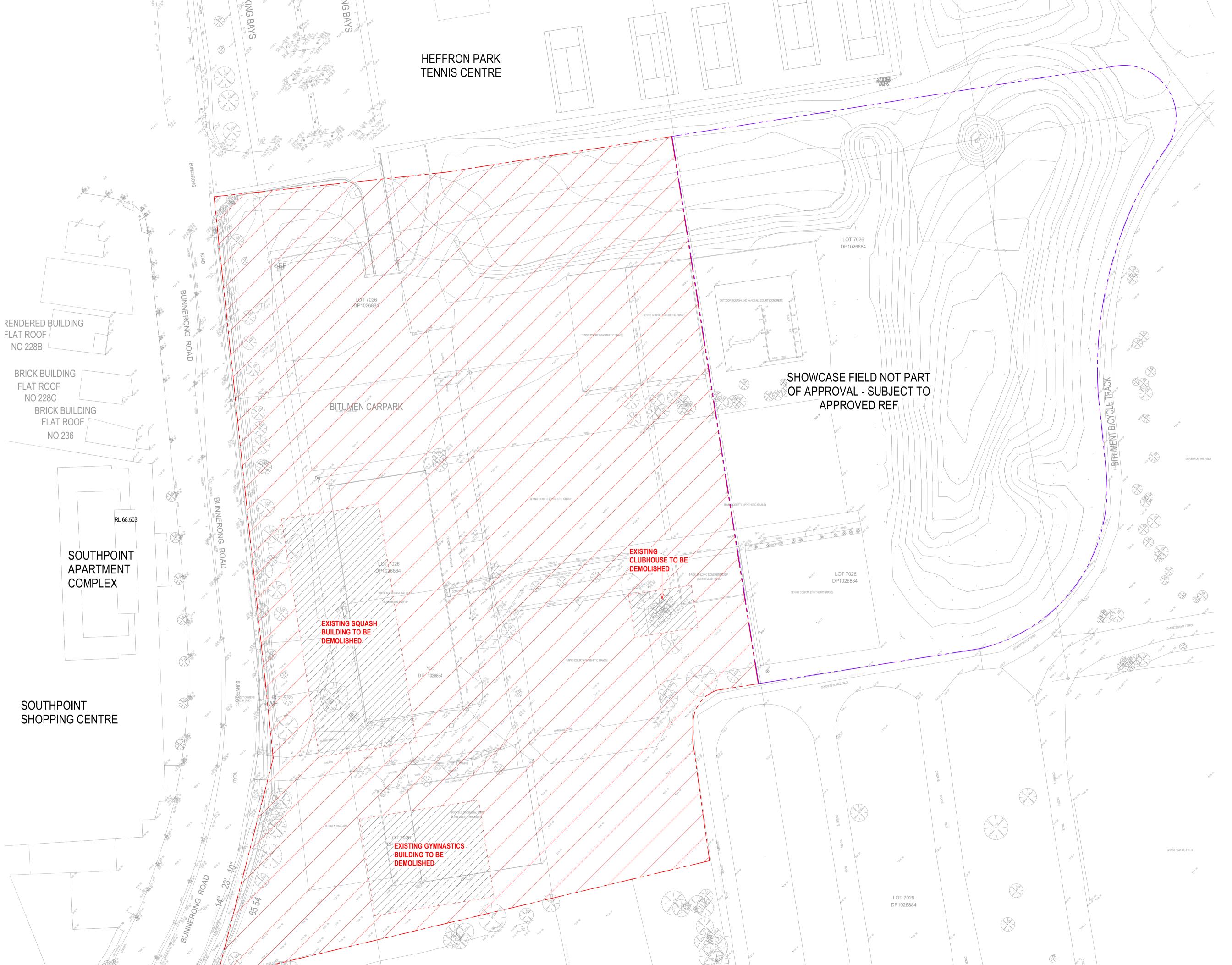




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#### **GENERAL NOTES**

ANY DAMAGE TO AREAS OF THE WORKS TO REMAIN SHALL BE MADE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO SATISFACTORILY ACHIEVE THE NEW WOKS AND DESIGN INTENT OF THE CONTRACT DOCUMENTS.

ALL DEMOLITION ITEMS MUST BE REMOVED FROM SITE AND DISPOSED OF LEGALLY UNLESS NOTED OTHERWISE.

COMPLETELY REMOVE AND DISCARD REDUNDANT SERVICES OR CAP SERVICES TO BE REUSED IN NEW WORKS.

FOR TREE REMOVAL - REFER TO LANDSCAPE DESIGN AND ARBORIST REPORT.

EXTENT OF SITE TO BE CLEATED OF ALL

EXISTING STRUCTURES AND FIXINGS.

THIS DRAWING MUST BE PRINTED IN COLOUR.

----- SHOWCASE FIELD BOUNDARY -NOT PART PART OF APPROVAL

DEVELOPMENT APPLICATION
480/2020

**Amended/Additional Information** 

**Records Received** 

Randwick City Council 9 February 2021

D ISSUED FOR DA
C FOR PCG REVIEW
B DRAFT DA - inclusive of DEP comments
A DRAFT DA

REV DESCRIPTION CLIENT

31.08.20 SD 27.08.20 SD ve of DEP comments 24.08.20 SD 10.08.20 SD DATE APP

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Level 7, 176 Wellington Parade, East Melbourne, 3002
Office: +61 452 281 614
admin@co-opstudio.com.au

PROJECT

HEFFRON CENTRE

PROJECT NUMBER

DRAWING

EXISTING AND DEMOLITION - SITE PLAN

SCALE

As indicated @ A1



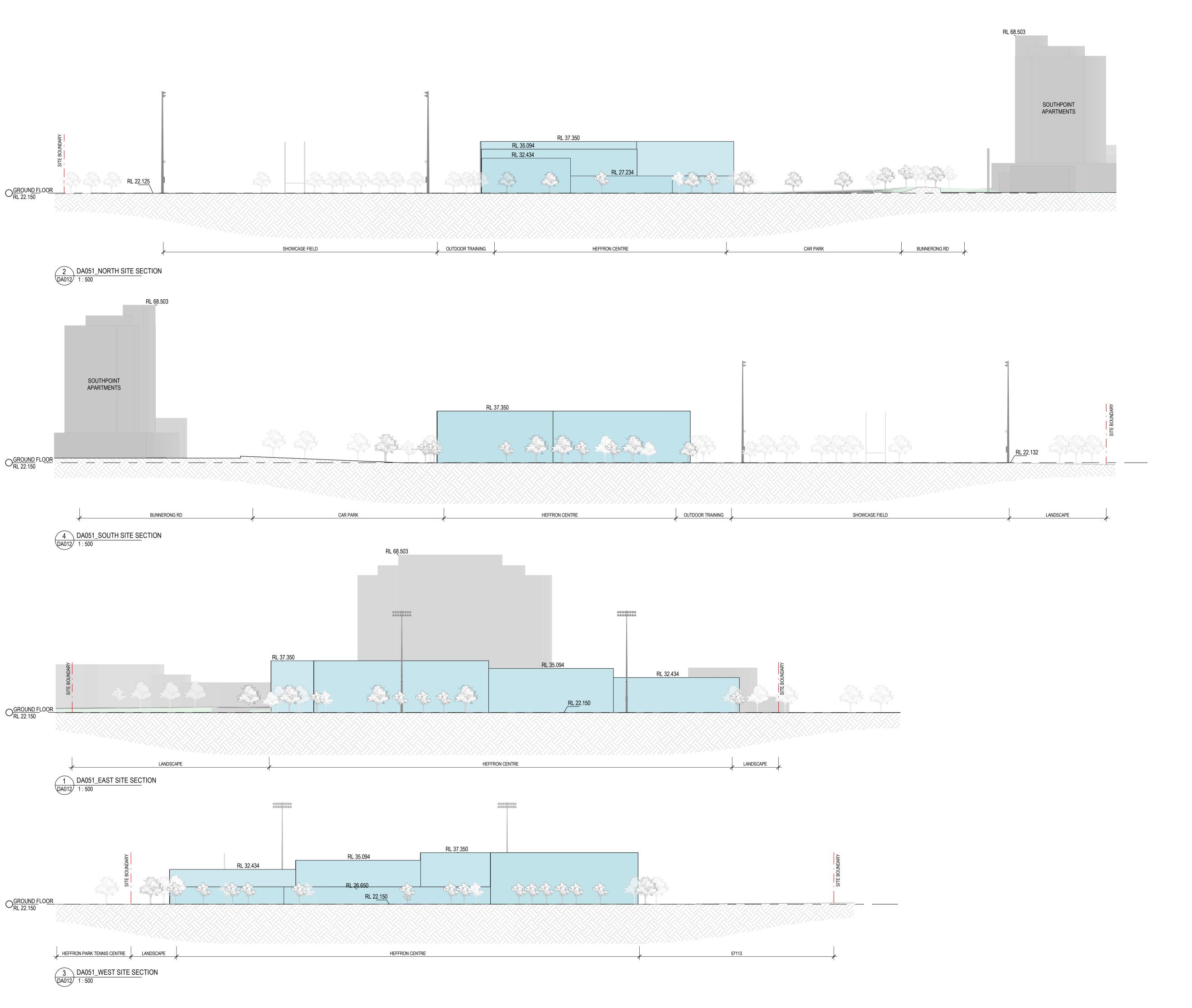
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REVISION

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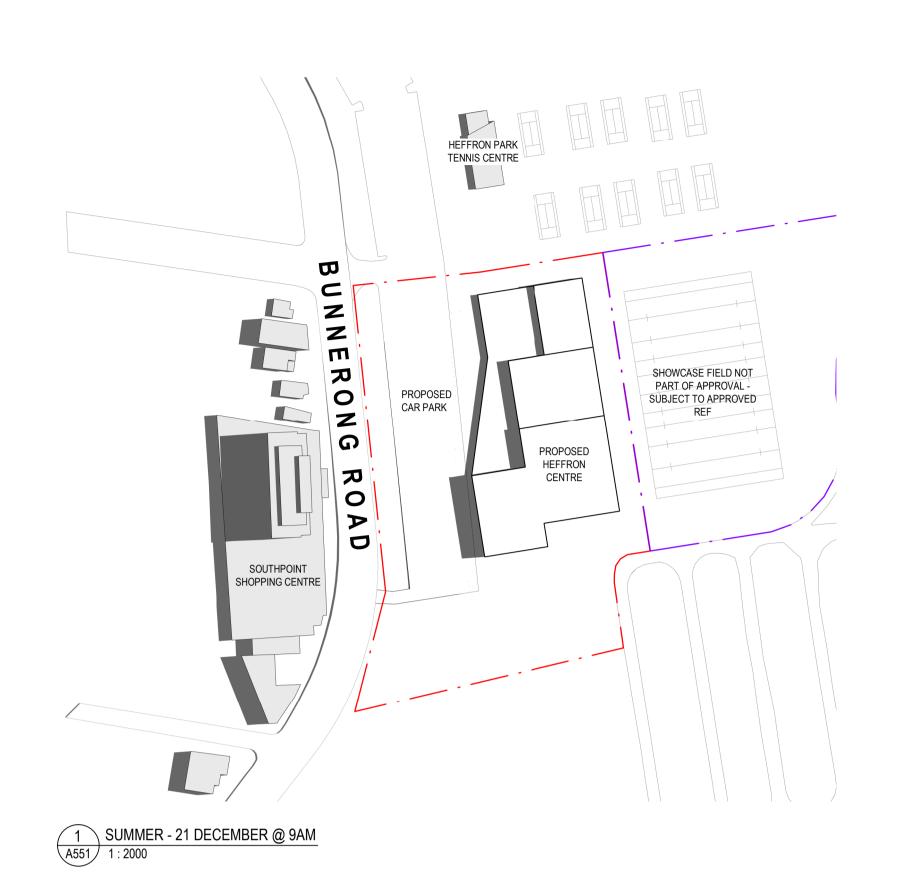
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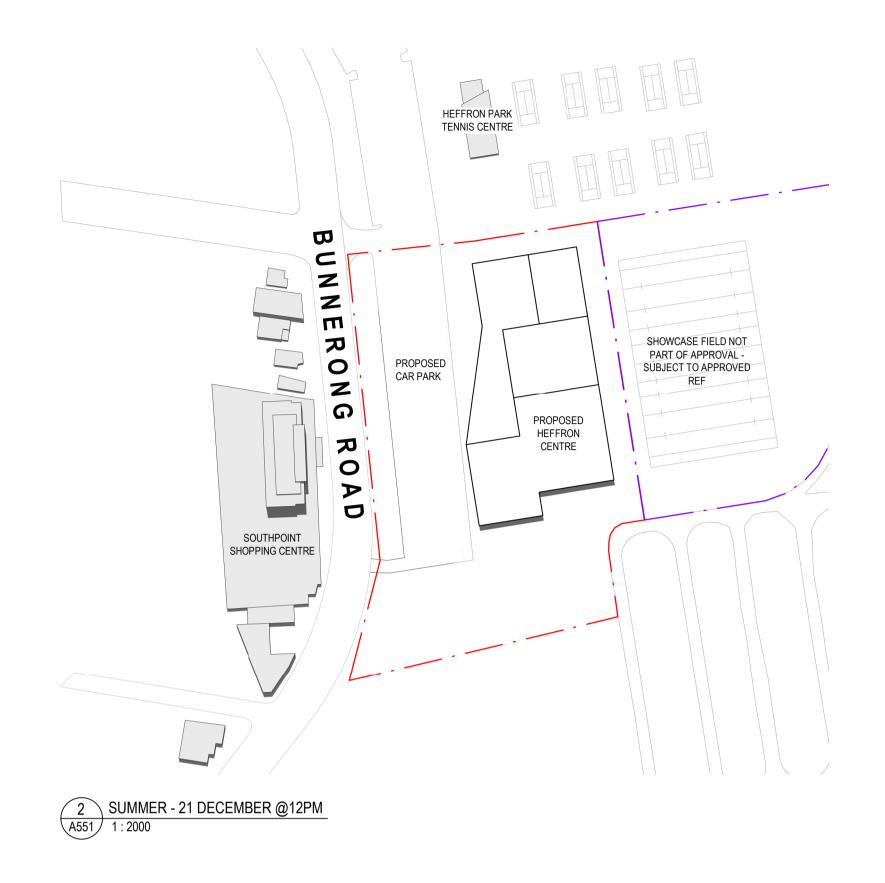
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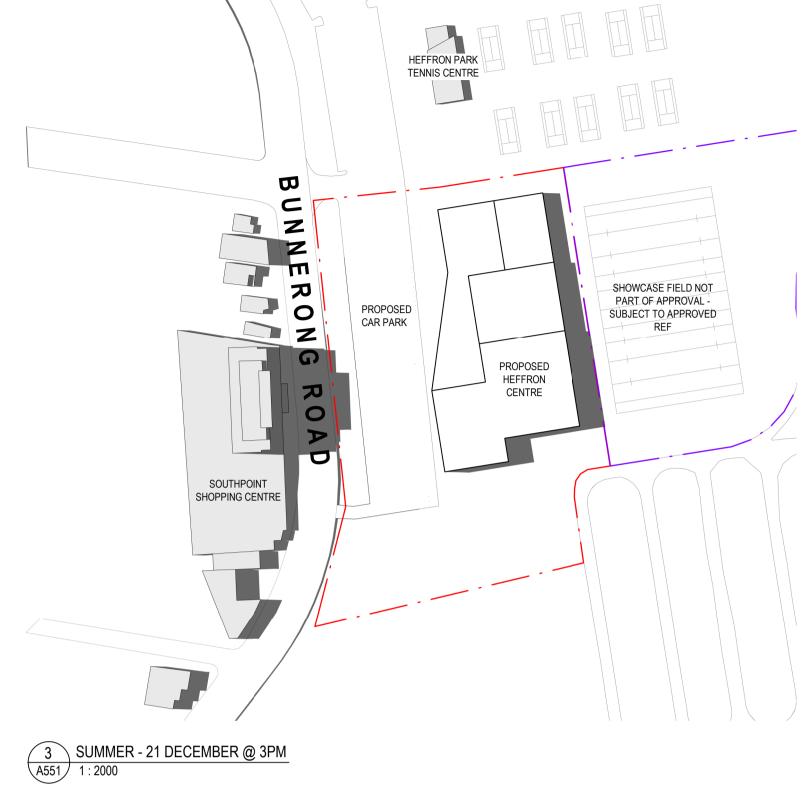
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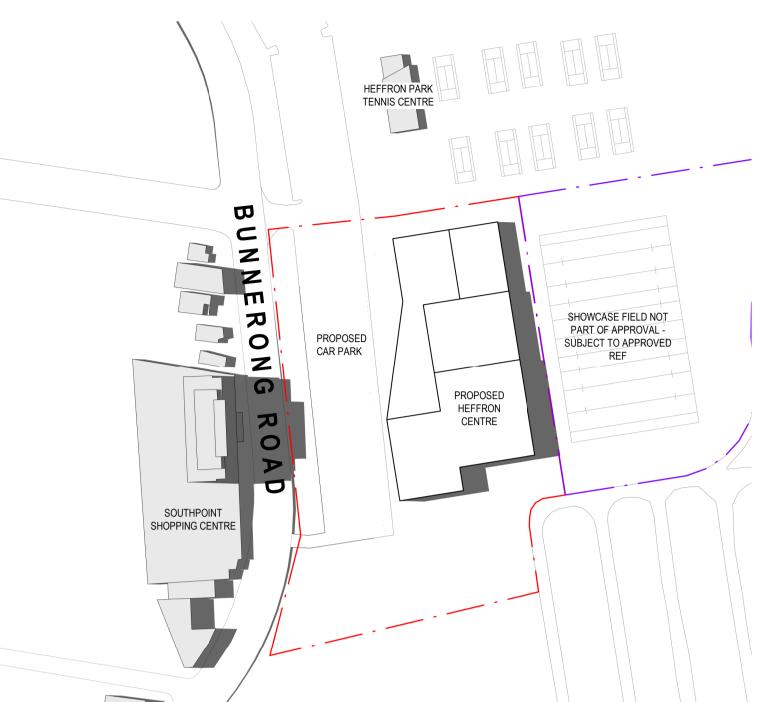
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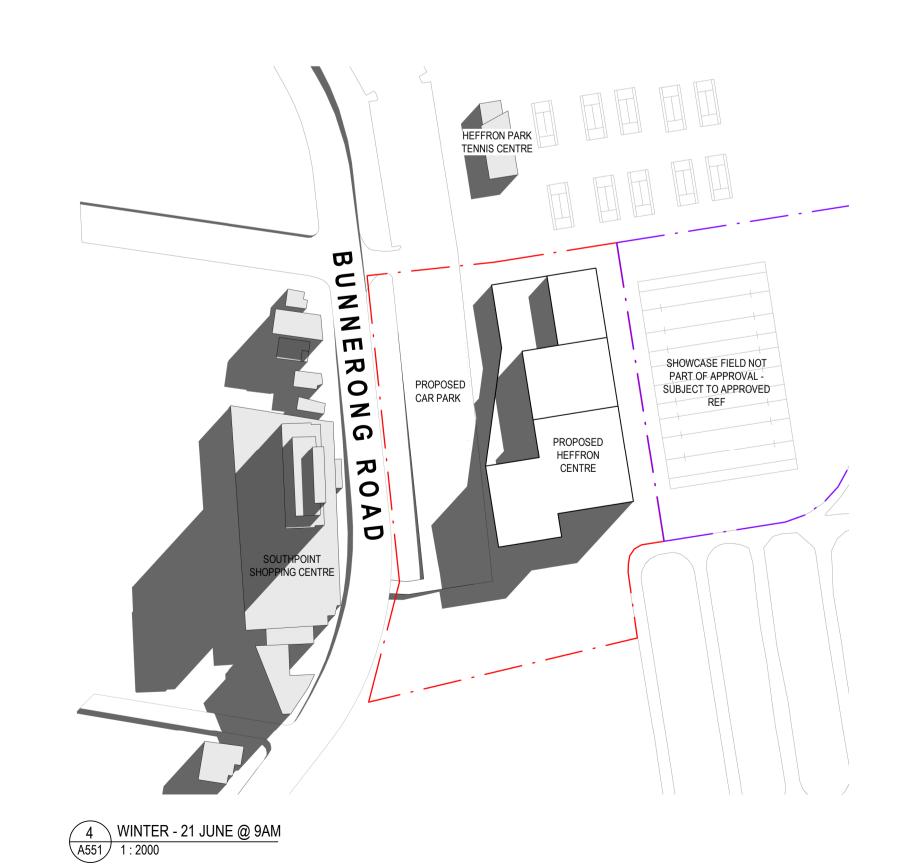
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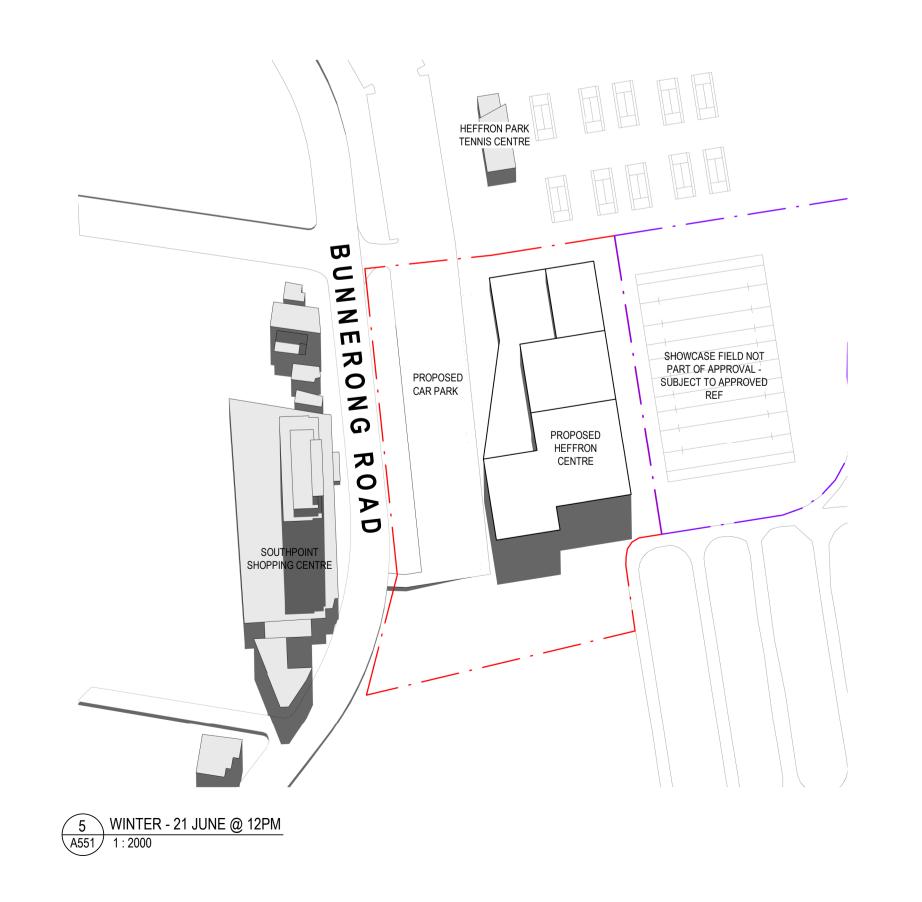


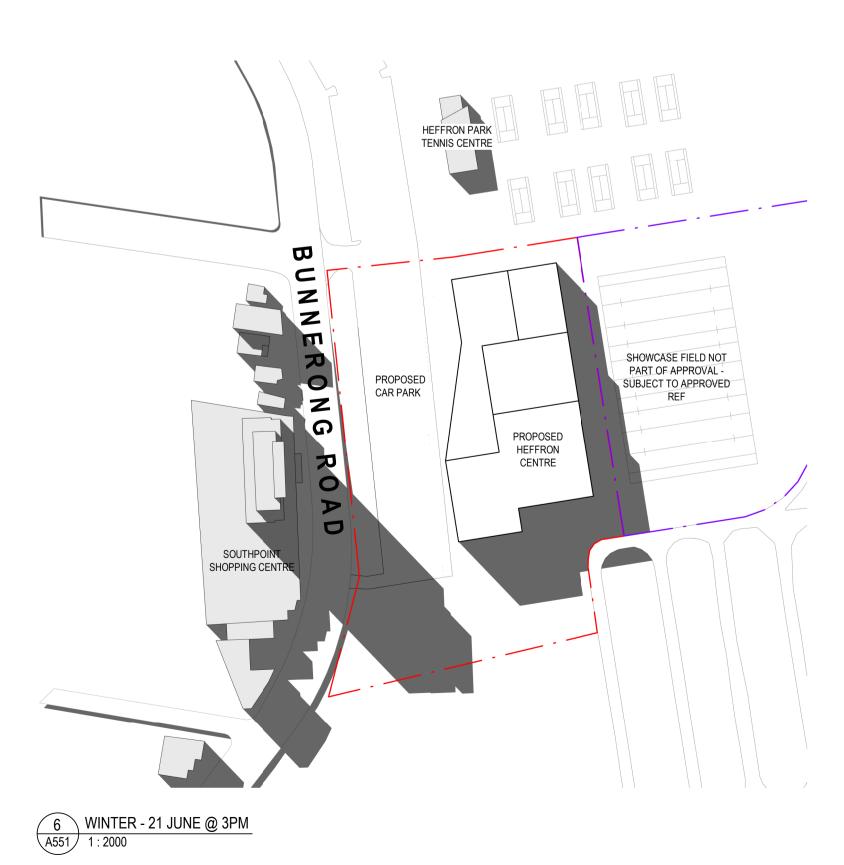


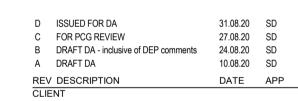












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HEFFRON CENTRE

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SHADOW ANALYSIS



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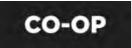




# HEFFRON PARK - DEVELOPMENT APPLICATION 100% LANDSCAPE DA PACKAGE

Client Randwick City Council





#### Prepared by

CLOUSTON Associates
Landscape Architects • Urban Designers • Landscape Planners
65-69 Kent Street • Sydney NSW 2000
PO Box R1388 • Royal Exchange NSW 1225 • Australia
Telephone +61 2 8272 4999
Contact: Crosbie Lorimer
Email • sydney@clouston.com.au
Web • www.clouston.com.au

Document	Issue	Review	Verify	Validate	Date	Status
S20-0001	Α	FH	FH	CL	29.07.2020	50% Draft
S20-0001	В	FH	FH	CL	21.08.2020	Issue For DA
S20-0001	С	FH	FH	CL	01.09.2020	Issue For DA

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S20-0001 HEFFRON PARK - LANDSCAPE DA PACKAGE





#### INTRODUCTION

This report supports two Development Applications for the development of the Heffron Centre at Heffron Park, 417-439 Bunnerong Road, Maroubra. The Heffron Centre is a new indoor multi-purpose facility, gymnastics facility and Community and High-Performance Centre (CHPC) which forms a major part of the ongoing upgrade works in Heffron Park and enables the community to have access to high-quality sporting facilities into the future. Randwick City Council is the proponent for both of the DAs.

#### **BACKGROUND**

Randwick City Council has been investigating the provision of new and improved community and elite sporting facilities at Heffron Park for some time. In 2019, Council entered into an Agreement for Lease and License with the South Sydney District Rugby League Football Club (the Rabbitohs) under a Public Private Partnership to accommodate administration, training and community facilities within a Community and High-Performance Facility (CHPC) to be delivered as one component of the Heffron Centre.

#### SITE CONTEXT AND ANALYSIS

The subject site is located within the south-western corner of Heffron Park, at 417-439 Bunnerong Road, Maroubra as illustrated in Figures 1 and 2. The site is legally known as Lot 7026 DP 1026884. The site is located on the western edge of Randwick LGA, and has a primary frontage to Bunnerong Road to the west. To the west of Bunnerong Road is Bayside LGA.

The site is Crown Land owned by the NSW Department of Primary Industries, with Randwick City Council acting as the Reserve Manager.

Heffron Park is the largest recreational park in Randwick and includes playing fields, tennis and netball courts, a cycling criterium track, and an aquatic and leisure centre. The park is bounded by Bunnerong Road to the west, Fitzgerald Ave to the north, Robey Street to the east and Jersey Road to the south.

The surrounding context of the site is predominately low and medium density residential, with Southpoint Shopping Centre and a number of smaller business premises and shop-top housing located immediately to the west of the site across Bunnerong Road, with Matraville Public School located 300m to the south-west and Champagnat Catholic College located 400m to the north.

#### **DESIGN INTENT AND THEME**

The site fronts onto and lies slightly below Bunnerong Road with relatively limited existing vegetation in the immediate vicinity. The recently upgraded tennis centre lies to the north of this site while part of the Heffron Park criterium circuit borders the site's eastern boundary. Heffron Park lies on a former dune and so the park and this site are relatively exposed to coastal winds, as well as winter westerlies.

Drawing on the site's underlying physical geography the landscape theme is centred on a dune-type character with the dominant features formed by mounds of planting set on a consistent diagonal axis 'dunes' that frame the building. These low planted mounds provide areas of shelter and strong visual elements in the landscape.

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Heffron Park • Maroubra

S20-0001 Sk 3

**DESIGN INTENT STATEMENT** 





### City Context

Graphic displays immediate site boundary for this DA submission in relation to the wider Heffron Park Master Plan

Green spaces

Bus Stops

Existing Cycle route

New Proposed Cycle connection

Main Road

Site Boundary

Distance from site



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Heffron Park • Maroubra

S20-0001 Sk 4

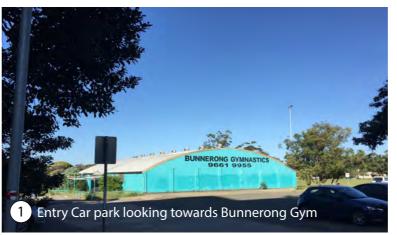
LOCAL AND CITY CONTEXT

01/09/2020 Issue C

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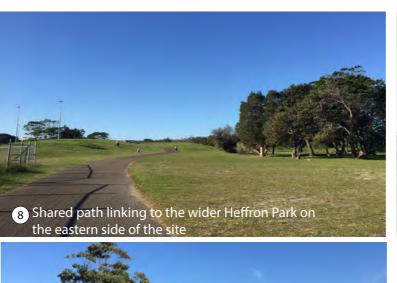


Heffron Park • Maroubra

S20-0001 Sk 5

SITE PHOTOS











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Heffron Park • Maroubra

S20-0001 Sk 6

SITE PHOTOS CONTINUED





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S20-0001 Sk 7

SITE ANALYSIS - CONSTRAINTS PLAN





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SITE ANALYSIS - OPPORTUNITIES PLAN



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**BUILDING SPECIFIC OPPORTUNITIES AND CONSTRAINTS** 







Directional mound

Feature Trees and planting in car parking area leading towards main entry.

Seating wall in front of mounded berm with trees providing shade to eastern building facade. Doubles up as spectator viewing area.

Disabled parking close to main entrance.

Clear directional walkway access towards building main entrance. Cutting through landscape mounded dunes.

Decomposed granite & low groundcover maintenance walkways through dune grass landscape. Also adds to the natural and aesthetic component.

Mounded berm with highest level at building facade and sloping down towards lawn area. This is to create the natural dune effect. Lowest planting species to be used on the bottom of the dune and increase in height as you move up the mound. Highest planting species to be used against the building and on top of the dune.

Seating wall on slope of dune to create a viewing platform across the historical significant criterium track and a visual connection to the rest of the site.

3.5m clear access path for emergency vehicles
Low groundcover planting areas are level and
flush with lawn area.

WSUD system in planting trenches at car

Proposed cycle link from Bunnerong Road through the site and lining up with the existing cycle track at Criterium.

Allow to tidy up or make good/restore existing turf areas @ ±35% of total area. (Retain existing where possible).Remaining 65% of area to receive new lawn on 75mm soil.





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Heffron Park • Maroubra

CONCEPT LANDSCAPE DESIGN - SOUTHERN AREA

S20-0001 Sk 12









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0.5m wide levelled area

01/09/2020 Issue C





Level lawn area /

Level decomposed

granite

LANDSCAPE SECTIONS

Axis walkway

towards main

entrance@

2.5m wide

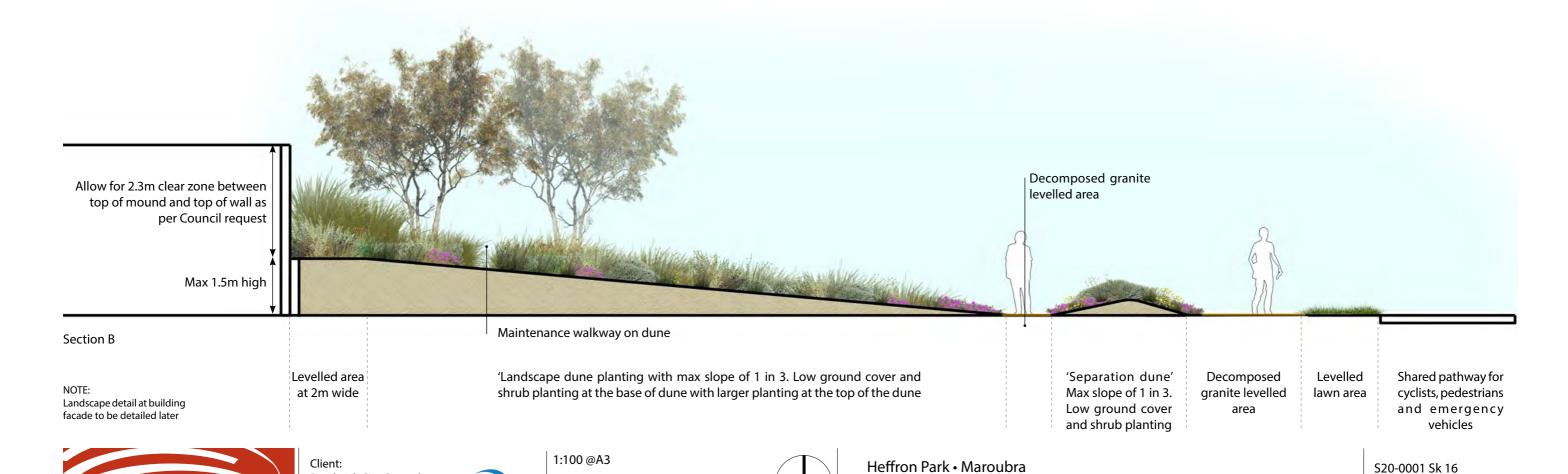
'Landscape dune planting with max slope

of 1 in 3. Low ground cover and shrub

planting at the base of dune with larger

planting at the top of the dune

Key Plan (NTS)



'Separation dune'

Max slope of 1 in 3.

Low ground cover

and shrub planting

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Concrete walkway

at drop-off zone











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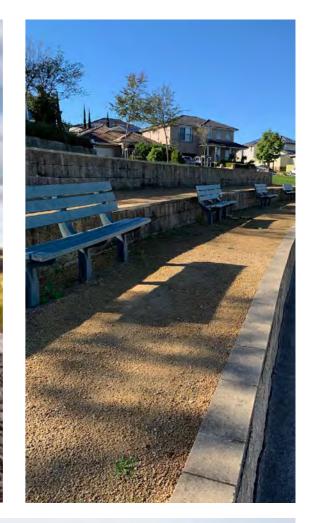
Heffron Park • Maroubra

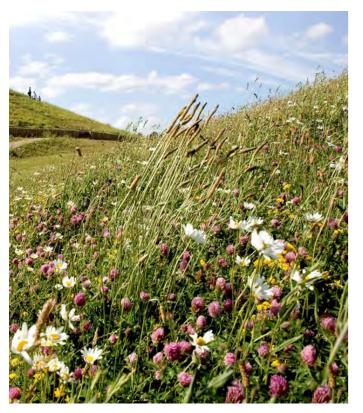
S20-0001 Sk 17

MOUNDED PLANTING















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S20-0001 Sk 18

**DUNE LANDSCAPING** 

#### **Australian Native Grasses**



Lomandra lonfifolia 'Tanika' Mat Rush



Pennisetum alopecuroides Purple Lea



Anigozanthos x hybrid Kangaroo Paw



Poa labillardierei Tussock Grass



Calamagrostis x acutiflora Feather Reed Grass



Pennisetum alopecuroides 'PA300' Nafray Pennisetum

#### **Australian Native Ground Covers**



Pycnosorus globulus Billy Buttons

#### **Australian Native Trees**



Banskia Serrata Old Man Banksia



Eucalyptus elata River Peppermint



Eucalyptus haemastoma Scribbly Gum



Eucalyptus punctata Grey Gum



Eucalyptus botryoides Bangalay

#### **Australian Native Shrubs**



Westringia Blue Gem Native Rosemary



Leptospermum scoparium Tea-tree



Westringia fruticosa sp. Low Horizon



Doryanthes excelsa Gymea Lily



Carpobrotus glaucescens Pig Face

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Heffron Park • Maroubra

S20-0001 Sk 19

PLANTING PALETTE

### PLANT SCHEDULE - HEFFRON PARK

CODE	BOTANICAL NAME	COMMON NAME	Mature Height (m)	Flowering time	Climate Conditions	Characteristics
AUSTRALIAN NATIVE TREES						
	Banskia integrifolia	Coast Banksia	10m	Autumn, Winter	Well drained soil, full sun	Pale yellow flowers, dark green on the upper side of leaf and silver on the lower side
	Banskia serrata	Old Man Banksia	10m	Spring, Summer	Well drained soil, full sun	Silvery grey flower spikes and cones
	Eucalyptus botryoides	Bangalay	25m	Summer	Full sun to part shade. Tolerates to coastal conditions, soil salinity,	Large wind break and shade tree with cream flowers.
	Eucalyptus elata	River Peppermint	10m	Autumn, Spring	Full sun, moist soils, tolerates to coastal conditions	Clusters of white blossoms open along stems
	Eucalyptus haemastoma	Scribbly Gum	10m	Summer, Autumn	Fun sun to part shade. Tolerates to coastal conditions, drought and frost.  Sand and loam soil.	Smooth white bark marked with 'scribbles' caused by insect activity. Broad lance shaped leaves. White flowers
	Eucalyptus punctata	Grey Gum	25m	Summer	Full sun to part shade. Tolerates to coastal conditions, drought and frost.  Sand and loam soil.	Tall shade tree for dappled light.  Matt grey bark marked with patches of pink or cream. Curved lanceolate leaves White flower.
AUSTRALIAN NAT	AUSTRALIAN NATIVE SHRUBS					
	Doryanthes excelsa	Gymea Lily	6m	Spring, Summer, Autumn	Frost tolerant, drought resistant	Feature plant, windbreaker
	Leptospermum scoparium	Tea-Tree	3m	Spring	Moist, low-nutrient soils	Alternating leaves, small and aromatic
	Westringia fruticosa 'Blue Gem'	Native Rosemary	2m	Spring	Full sun position, good drainage	Hardy shrub with blue - purple flowers
	Westringia fruticosa 'Low Horizon'	Low Horizon Westringia	0.3m	Summer, Spring	Full sun to part shade. Suits sandy to well drained clay soils. Tolerates cold,	Evergreen ground-cover with fine foliage and small white flowers.

DEVELOPMENT APPLICATION

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Heffron Park • Maroubra

S20-0001 Sk 20

PLANTING INFORMATION

CODE	BOTANICAL NAME	COMMON NAME	Mature Height (m)	Flowering time	Climate Conditions	Characteristics
STRALIAN NAT	IVE GRASSES					
	Anigozanthos x Hybrid	Kangaroo Paw Bush	1m	Autumn	Low maintenance, full sun	Claw shaped flowers that can be green, yellow or orange
	Calamagrostis x acutiflora	Feather Reed Grass	1.5m	Summer	Low maintenance, full sun	Clumping vertical grass. White/pinl flower
	Lomandra lonfifolia 'Tanika'	Mat Rush	0.6m	Spring	Full sun, tolerates to frost, drought and coastal conditions, well-drained	Compact fine evergreen leaf with yellow flowers
	Miscanthus sinensis 'Variegatus'	Eulalia	1m	Autumn	Part Shade, moderate drought tolerant, frost hardy, well-drained soil	Coppery tan flower plumes above the foliage in autumn
	Pennisetum alopecuroides	Purple Lea	1.5m	Summer	full Sun, drought and frost tolerant	Fox tail like green - creamed flowers
	Pennisetum alopecuroides 'PA300'	Nafray Pennisetum	0.6m	Summer, Autumn	Full sun to part shade. Suits sandy to	Compact fine evergreen leaf with
	Poa labillardieri	Eskdale	1.3m	Spring, Summer	Low maintenance, Sun	Needle-like blue/grey foliage
STRALIAN NAT	IVE GROUND COVERS					
	Carpobrotus glaucescens	Pig Face	0.2m	Spring, Summer	Open sandy areas, Dune stabiliser, Drought tolerant	Ground cover with pink flower for coastal and inland plantings
	Pycnosorus globulus	Billy Buttons	1m	Spring, Summer	Low-maintenance, full sun, tolerates to drought, coastal condition, well	Clumping groundcover with yellow gold flower

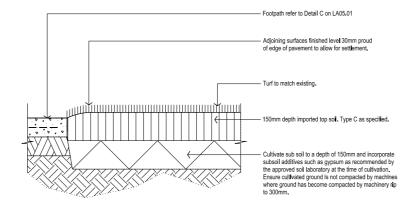


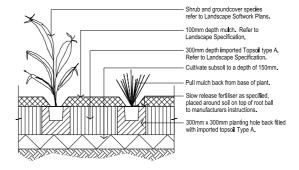
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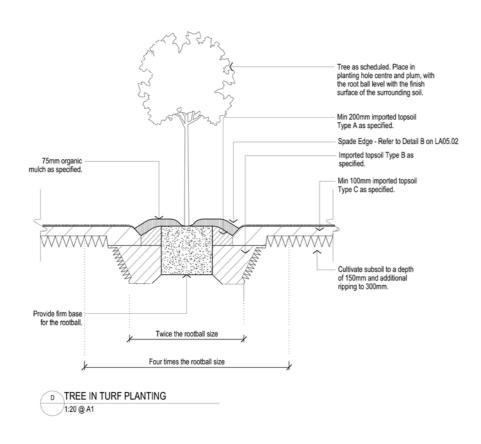


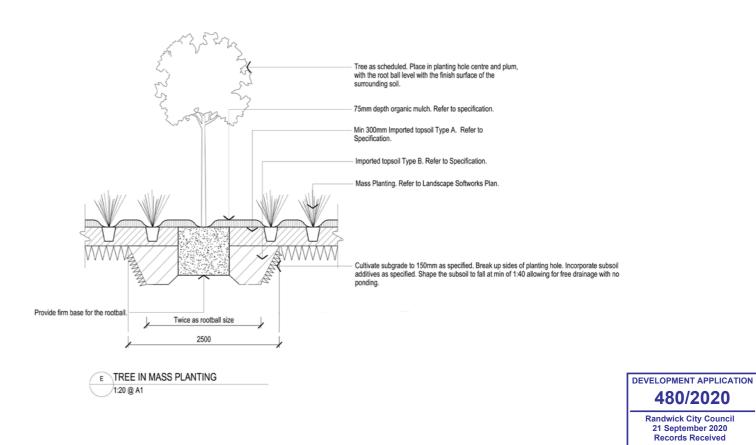




A TURF PLANTING

B MASS PLANTING





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Heffron Park • Maroubra S20-0001 Sk 22 LANDSCAPE TYPICAL DETAILS 01/09/2020 Issue C

480/2020

#### LANDSCAPE MAINTENANCE

The Following is a list of landscape maintenance activities proposed for the landscape areas within the development. Maintenance activities are based on the NATSPEC landscape specification.

#### **GENERAL**

Summary of maintenance responsibilities:

- · Watering of lawn, garden bed areas, pots.
- Weeding of lawn, garden bed areas, and pavement.
- Supply and spreading of fertiliser to lawn, garden bed areas and pots.
- Supply and installation of mulch to existing garden bed areas and pots.
- Pruning, trimming and tree surgery.
- Pest and disease control of lawn, shrubs and trees.
- Mowing and edge trimming to all lawn areas including collection and removal of clippings.
- · Replacement of dead or failed plants.
- Maintenance of irrigation systems.
- · Removal of rubbish and debris in garden areas.
- Keeping of a log book.
- Monthly reports.

Maintenance procedures: To accepted horticultural and arboricultural practice.

#### WEEDING

Weeds: Unwanted broadleaf plants and grasses considered invasive to the locality.

#### Program:

- Lawns: Quarterly and as determined by the relationship of the general lawn condition and weed growth.
- Trees and Shrubs: As required for planted, paved and mulched areas to be weed free when observed at bi-weekly intervals.

#### Method:

- Clear and keep clear vigorous ground covers 200 mm from the base of any shrub or tree:
- Small Areas: By hand.
- Large Areas: Proprietary herbicides.
- Herbicide Application: Avoid windy days or if rain is likely to follow within 12 hours.

#### PEST AND DISEASE CONTROL

The landscape contractor is responsible for the control of any pest or disease which may affect the lawn and garden bed areas. Actions:

- Identify the problem.
- Execute the correct treatment until the problem has been eliminated.
- Apply hazardous material out of normal working hours.
- Protect staff and public.

#### LAWN

#### Mowing and Trimming

Height: Consistent with the growth habit of the grass variety and maintained at 25 mm to 40 mm throughout the year.

Program: Weekly during the mowing season, November to March, and at bi-weekly intervals during April to October. Do not mow under wet conditions.

Raking: Once every month before mowing, during the mowing season, with a flexible rake. On alternate mowings, adopt a north-south and east-west pattern.

Edges: At the same time as mowing, trim lawn edges to plant beds, pathways, base of trees and other obstacles. Ensure trees and shrubs are not damaged.

#### Fertilising

Apply lawn fertiliser as required to maintain healthy grass cover.

#### TREES AND SHRUBS

#### Pruning and Trimming

General: Prune to reflect the natural growth flowering and regrowth habit of the individual species. Shrubs: Prune after flowering.

Program: Spring and Summer and on a spot basis as required.

#### Hedae Trimmina:

Schedule trimming at times which will maintain the character and design of hedges. Allow up to three times per season.

#### Tip Pruning:

Do not remove buds before the flowering season in those plants that have terminal flowers

Purpose: To encourage development of new shoots during the active growing season. Method: The removal of the top 25 mm or growing tip of each branch.

#### Radical Pruning

Purpose: To maintain a hedge or formal shape or when a particular problem, growth habit, damage, or disease requires branch removal.

- Clear and keep clear vigorous groundcovers 200mm from the base of any shrub or tree.
- Use only tools fit for purpose.

#### Trees, Prune to:

- Eliminate diseased or damaged growth, avoid inter-branch contact and thin out crowns in a natural manner.
- Maintain sight lines to signs and lights.
- Maintain visibility for personal security.

#### Tree Branch Removal:

- To AS 4373.
- Give notice and engage a suitably qualified 'arborist'.

#### Plant Replacements

General: Replace all evergreen plants that have died or lost 50% of their normal foliage cover. Provide replacement plants as follows:

- Of the same species and variety and of the closest commercially available size.
- Of uniformly high quality stock equal to the best commercially available.
- Representative of optimum growth for the species as restricted by the container size.
- With a balanced root system in relation to the size of the plant and conducive to successful transpiration. Inspect the root conditions of plants by knocking plants from their containers.
- Without signs of having been stressed at any stage during their development due to inadequate watering, excessive shade/sunlight, suffered physical damage or have restricted habit due to growth in nursery rows.
- Healthy, well grown, hardened off specimens of good shape and free from pests and disease.
- Well rooted and without any indication of having been restricted (pot bound) or damaged at any time.
- Been grown in their final containers for not less than twelve (12) weeks.

#### Watering

Planting: Water as required to maintain growth rates free of stress.

Turfing: Water to maintain moisture to this depth.

DEVELOPMENT APPLICATION

#### MULCHING

Clean up: Remove all mulching materials off lawn or paved areas and maintain a clean and tidy appearance when viewed on a weekly basis.

Depth: Maintain a minimum depth of:

- 75 mm for organic mulch.
- 50 mm for gravel mulch.

Top up: Areas of excessive wear.

Appearance: Maintain to keep clean and tidy with no soil disturbance evident on the surface of the mulch.

#### INCIDENTAL WORKS

**Supplementary Works** 

General: Execute the following:

- Removal of rubbish arising from maintenance work.
- · Removal of leaf litter fortnightly during leaf fall.
- · Wash paving on completion of herbicide application.

#### Pavin

Slip resistance tests:

- Test to AS 4663 annually.
- Notify deviation from the design value.
- Rectify the surface and re-test as required to comply with the design value.

#### Furniture, Signage and Barriers

Scope: All fixed and movable features noted in the record drawings.

Furniture and pots:

- Move and relocate as required for maintenance of the area.
- Repair of replace items damaged by the maintenance contract staff.

Signage: Maintain sight line visibility.

#### Drains

General: Inspect and clean all drainage structures and pit covers and ensure that they are in proper working order.

Frequency: As required so that all overflow drains are cleared when observed at fortnightly intervals.

#### IRRIGATION

Irrigation system program: To suit the following:

- The precipitation requirements of the individual zones/stations with regard to types of plants.
- The infiltration rate of the soil/medium and associated physical factors seasons, evaporation, exposure, topography, local authority restrictions.
- An allowance for adjustment or shut down during and after periods prolonged heavy rains.
- To co-ordinate water supply and to confirm watering regime against federal and state government legislation and restrictions at the time.

#### Equipment maintenance:

- Check all components for proper operation.
- Repair or replace damaged component with equivalent parts.
- Flush any dirt or foreign matter from the system and clear all blockages.

#### Operation

Ensure by adjustment or replacement of components, that the overall operation of the system is efficient and operational.

#### Supervision:

Prevent excessive use of water.



Client: Randwick City Council



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INDICATIVE LANDSCAPE MAINTENANCE

Heffron Park • Maroubra

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