



C I T Y O F P A R R A M A T T A

BARNETT ROAD, WINSTON HILLS

BARNETT DOG PARK UPGRADE - ADDITIONAL LANDSCAPE WORKS

Plan No.17887

SHEET No.	DRAWING TITLE
1	COVER SHEET
2	SPECIFICATION NOTES 1
3	SPECIFICATION NOTES 2
4	FURNITURE AND SOFTWARES PLAN
5	SETOUT PLAN
6	DETAILS SHEET



DESIGN DOCUMENTATION

SURVEY: CITY OF PARRAMATTA ENGINEERING SURVEY
DESIGN BY: CHAMY CHEN
DRAWN BY: CHAMY CHEN
DESIGN CHECKED/APPROVED: ADAMI COOK
APPROVED FOR CONSTRUCTION: RICHARD JAMES
RELEASE DATE: AUGUST 2022

SOFTWORKS

Scope

- Specified in this section:
- Proposed cultivation:
 - Proposed organic garden mix soil:
 - Proposed 140mm & 45L1 plants:
 - Proposed 100mm depth leaf filter mulch:
 - Proposed turf underlay:
 - Proposed turf:
 - Undertake maintenance period.

Items of Work

1. Proposed cultivation
In locations shown on drawings, the Contractor shall cultivate existing site soil to minimum 200mm depth and incorporate 'Terracottan' soil conditioner at rates recommended by the manufacturer. Hand cultivate with tools within root zone of existing trees. Remove stones exceeding 25mm, clods of earth exceeding 50mm and weeds, rubbish or other deleterious material brought to the surface during cultivation. Trim the surface to design levels after cultivation. Do not disturb services or tree roots, if necessary cultivate these areas by hand.

2. Proposed organic garden mix soil
In locations shown on drawings, the Contractor shall supply and install min. 50mm depth organic garden mix soil to garden beds and tree pits. Lightly compact to minimise voids and depressions.
Type: Australian Native Landscapes 'Organic Garden Mix' or an approved equivalent.
Installation: Lightly compact imported topsoil in maximum 50mm depth layers to avoid subsidence and to produce a finished surface.

3. Proposed 140mm and 45L1 plants.
In locations shown on drawings, the Contractor shall supply and install 140mm pot sized and 45L1 plants.
Type: Refer to Plant Schedule.
Installation: Place 140mm or 45L1 plants in garden bed, with the top of the rootball finishing flush with adjoining soil level.
Backfill: Planting hole with organic garden mix soil / cultivate with site soil. Water plants to field capacity immediately following installation. Refer to Details.
Recommended plant suppliers: Andreasens Green Wholesale Nurseries or Alpine Nurseries

4. Proposed 100mm depth leaf filter mulch.
In locations shown on drawings, the Contractor shall supply and install 100mm depth leaf filter mulch.
Depth: 100mm
Type: Australian Native Landscapes 'Leaf Litter Mulch' or an approved equivalent.
Installation: Provide leaf filter mulch that is free of deleterious material and extraneous matter such as soil, weeds, plant material etc.
Place mulch to all areas shown on drawings to 100mm depth. Spread mulch to an even depth and ensure it is not in contact with the stems of proposed planting.
Rake to an even surface flush with the surrounding finished levels.

5. Proposed turf underlay.
In locations shown on drawings, the Contractor shall supply and install min. 50mm depth turf underlay to max. 1:6 grade.
Depth: min,50mm
Type: Australian Native Landscapes 'Turf Underlay' or an approved equivalent.
Installation: Lightly compact turf underlay to avoid subsidence and to produce a finished surface which is to design levels; smooth and free from stone or lumps of soil.
graded to drain freely and without ponding; ready for turfing. Refer to Details.

6. Proposed Kikuyu Turf.
In locations shown on drawings, the Contractor shall supply and install Kikuyu turf as required to match existing grass. Soil shall be compacted lightly beneath new turf areas to avoid tip hazards. If necessary, top dress turf to ensure adjoining levels finish flush. Do not use mulch in turf areas or as a filling material.
Type: Kikuyu to match existing

Manually roll with a drum roller or similar to an even surface after laying. Water immediately after laying until the topsoil is moistened to its full depth. Continue watering to maintain moisture to this depth. Keep the grass in a healthy condition.
Apply fertilizer at the completion of the first and last mowings, and at other times as required to maintain healthy grass cover.
Mow to maintain the grass height within the required range. Do not remove more than one third of the grass height at any one time. Remove grass clippings from the site after each mowing. Refer to Details.

6. Undertake maintenance period.
The Contractor shall rectify, maintain and care for all components within the extent of works including hardworks, softworks and furniture elements for the duration of construction and maintenance periods.
12-week maintenance period:
The Maintenance Contractor shall undertake maintenance works within the extent of works zone as per the following specification.

The Maintenance Period commences on an agreed date for Practical Completion between the Contractor, Landscape Architect, Superintendent and Council's nominated maintenance contractor. It is expected that the nominated Maintenance Contractor attend site a minimum three times per fortnight during the first 8 weeks of the maintenance period and twice fortnightly thereafter, without fail, for the duration of the remaining maintenance period. This attendance is to ensure watering of the vegetation is sufficient.

Standards

All landscape work shall comply with the current edition of the relevant Australian Standards.

Any variations or ambiguity between the contract documents and Australian Standards shall be referred to the Superintendent for decision before proceeding with the work.

General

Provide plants with the following characteristics:

- large, strong, progressive and healthy root systems (while tipped root ends), with no evidence of root curl, restriction or damage and the volume of the rootball is fully occupied;
- vigorous, well established, free from diseases or insect pests, of good even shape, structure and form consistent with species or variety;
- extension growth consistent with that shown in vigorous healthy specimens of the species;
- hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site; foliage size, texture

Plant Materials Requirements & Product warranty

Supply plants in weed free containers of the required size. Plant size definitions are indicative only and are subject to variation in accordance with the natural growth habit of the species. Submit the supplier's written statement certifying that plants are true to the required species and type and are free from diseases, pests and weeds. Using plants of the same type, quality and size, replace any plants which are damaged whilst being transported to the site or during the Works Under Contract, or which fail or are rejected.

Watering
Thoroughly water plants and turf immediately following installation and as required to maintain growth rates free of stress for the duration of the construction period and maintenance period.

Backfilling
Backfill with existing /imported site soil as specified. Lightly tamp to eliminate air pockets. Ensure that soil is not placed over the root ball, so that the plant stem remains the same height above ground as it was in the container.

Insect and Disease Control
Immediately give notice of evidence of insect attack or disease amongst plant material. Where required, spray with insecticide, fungicide or both with the manufacturer's recommendation. Submit proposal and obtain approval from Superintendent before starting this work.

Stockpile
Stockpile site topsoil approved for re-use and imported topsoil where necessary. Establish stockpiles to sizes and in locations as directed, to heights not exceeding 1.5m. Provide adequate drainage and erosion protection. Do not burn off or remove plant growth which may occur during storage. Do not allow traffic on stockpiles. Protect the topsoil stockpiles from contamination by other excavated material, weeds and building debris.

Turfing

Obtain turf from a specialist grower of cultivated turf. Provide turf of even thickness, free from weeds and other foreign matter.
Deliver the turf from the supplier within 24 hours of cutting, and lay it within 36 hours of cutting. Prevent it from drying out between cutting and laying. If it is not laid within 36 hours, roll it out in a flat surface with the grass up, and water as necessary to maintain good condition.

MAINTENANCE PERIOD SPECIFICATION

The Contractor shall undertake maintenance period as specified.

The Contractor shall rectify, maintain and care for all components within the extent of works including hardworks, softworks and furniture for the duration of the construction period until practical completion is given in writing by Council's Superintendent.

At practical completion, Council's Superintendent shall inspect the site for defects. Defects identified at practical completion shall be rectified by the Contractor at the Contractor's expense prior to completion of the construction period.

The Maintenance Period commences upon Council's written satisfaction of the following:

- Completion of works as per the contract;
- Rectification of all defects identified at practical completion.

Duration: 12 Weeks

Extent of Works: All Items installed by the Contractor under this contract.

The Maintenance Period shall include, but not be limited to:

- Weeding, rubbish removal;
- Pest and disease control;
- Fertilising, re-mulching, aerating;
- Pruning and staking;
- Re-turfing;
- Rectification of defects identified by Council throughout the 12 weeks;
- Provision of labour, material and equipment;
- Replacement of failed or sloin plants;
- Cleaning of graffiti;
- Cleaning of hardworks;

Note: Temporary fencing (i.e. parawebbing and star pickets with caps) shall protect key new planting during the maintenance / establishment period. Confirm extent of temporary fencing with Project Landscape Architect.

Maintenance Log Book

The Contractor shall maintain a log book to record all inspections and procedures undertaken for the duration of the maintenance period. The log book shall be available at each inspection of Works for Council's Superintendent/Landscape Architect to review. The log book shall be submitted to Council at Handover.

Attendance

It is expected that the Contractor attend site twice weekly for the full length of the maintenance period.

General maintenance guidelines

Each tree/plant rootball shall receive a minimum three complete waterings to field capacity at fortnightly intervals soaked for the first 4 weeks of Maintenance Period irrespective of natural rainfall. Thereafter, each rootball shall receive a minimum of one complete watering to field capacity at weekly intervals irrespective of natural rainfall. Allow the surface of the soil to partially dry out between waterings.

All freshly laid turf shall receive a minimum three complete waterings to 150mm depth at fortnightly intervals soaked for the first 4 weeks of Maintenance Period irrespective of natural rainfall. Thereafter, turf shall receive a minimum of one complete watering to 150mm depth at weekly intervals irrespective of natural rainfall. Allow the surface of the soil to partially dry out between waterings.

Continue to ensure the general appearance and presentation of the landscape and quality of plant material for the full Maintenance Period.

- Existing planting and grass: Where existing planting or grass is within the landscape contract area, maintain it as for the corresponding classifications of new grassland or planting.
- Replacements: Continue to replace failed / dead plants at minimum 1 week intervals as necessary throughout the full Maintenance Period.

The Contractor shall be responsible for the control of any pest or disease which may affect the plants. Once the problem has been correctly identified, then a suitable form of treatment should be engaged until the problem has been eliminated. If the use of a chemical spray is required, strict adherence to the Manufacturer's recommended rates and handling is essential. Proper care should be taken to protect both the user and the persons likely to be affected or come in contact with the spray. Allowance should be made to carry out such work outside of normal working hours if necessary.

Adjust guards, stakes and ties where necessary. Where plants are robust with well-developed systems and are strong enough to no longer require support, stakes and ties shall be removed. Where plants are unable to be self-supported or where stakes are damaged, plants shall be staked or re-staked. Remove those not required at the end of the Maintenance Period.

Remove all weed growth and re-occurring weed growth by hand or spray with approved herbicide unless otherwise specified throughout all planted and mulched areas. This work shall be executed regularly so that the planted, paved and mulched areas are weed free when observed at bi-weekly intervals. Vigorous ground covers shall be cleared from and maintained 200mm from the base of any shrub or tree.

Any bottles, papers, cigarette butts etc shall be removed by hand from the site. This work shall be executed regularly so that all areas are free from rubbish when observed at bi-weekly intervals.

Mulched areas should be inspected bi-weekly to determine mulch requirements. Generally a minimum depth of 75mm cover should be maintained to ensure adequate weed suppression and quality finish. Re-mulching should be undertaken when minimum depth of mulch is less than 75mm. Special care when re-mulching should be given to maintaining original ground levels around the base of trees.

All trees/plants declining in health are to be immediately reported to the Superintendent. The Contractor must remove and replace of all dead or failed plants at the instruction of the Superintendent. If plants have failed due to a lack of maintenance (e.g. not being watered) the Contractor will be liable to purchase and replace plant stock at their own cost.

The maintenance period includes cleaning of all hardworks and removal of all graffiti within the Extent of Works to Council's satisfaction.

All works during the maintenance period include the provision of labour, materials and equipment required to complete works at the Contractor's expense.

The Contractor is to undertake all rectification works identified by Council at practical completion and throughout the maintenance period in accordance with this specification.

Inspection by Council

The Contractor shall contact Council's Superintendent every 3 weeks for the duration of the maintenance period to organise and attend an on-site meeting in order to review the quality of maintenance works. At each meeting, the log book shall be submitted for review.




Rectification of Defects

Issues or defects identified by the Superintendent shall be rectified prior to the next scheduled meeting and recorded in the log book.

Two weeks before handover, Council's Superintendent/ Landscape Architect shall inspect the site for defects. Defects identified at this time shall be rectified by the Contractor and at the Contractor's expense prior to Handover.

Handover to Council


The maintenance of the site shall remain the responsibility of the Contractor until written confirmation of handover is provided by Council. The Contractor shall continue maintenance works as per this specification until written confirmation is given.


Issue	Date	Description	Co-Ord:	Drawn:	Design Approved Date:	Client Accepted:	Date:	Date:	Date:	Project:	Draw No:
			MGA	AHD	16/8/22	Approved for Construction:		Aug 2022		Barnett Dog Park – Additional Landscape Works Barnetts Road, Winston Hills	17887
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 UNLESS DETAILED ON THIS DRAWING ALL WORK SHALL CONFORM TO											
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Service Manager Capital Projects											
FINAL											
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SPECIFICATION NOTES 2											
Revision:											



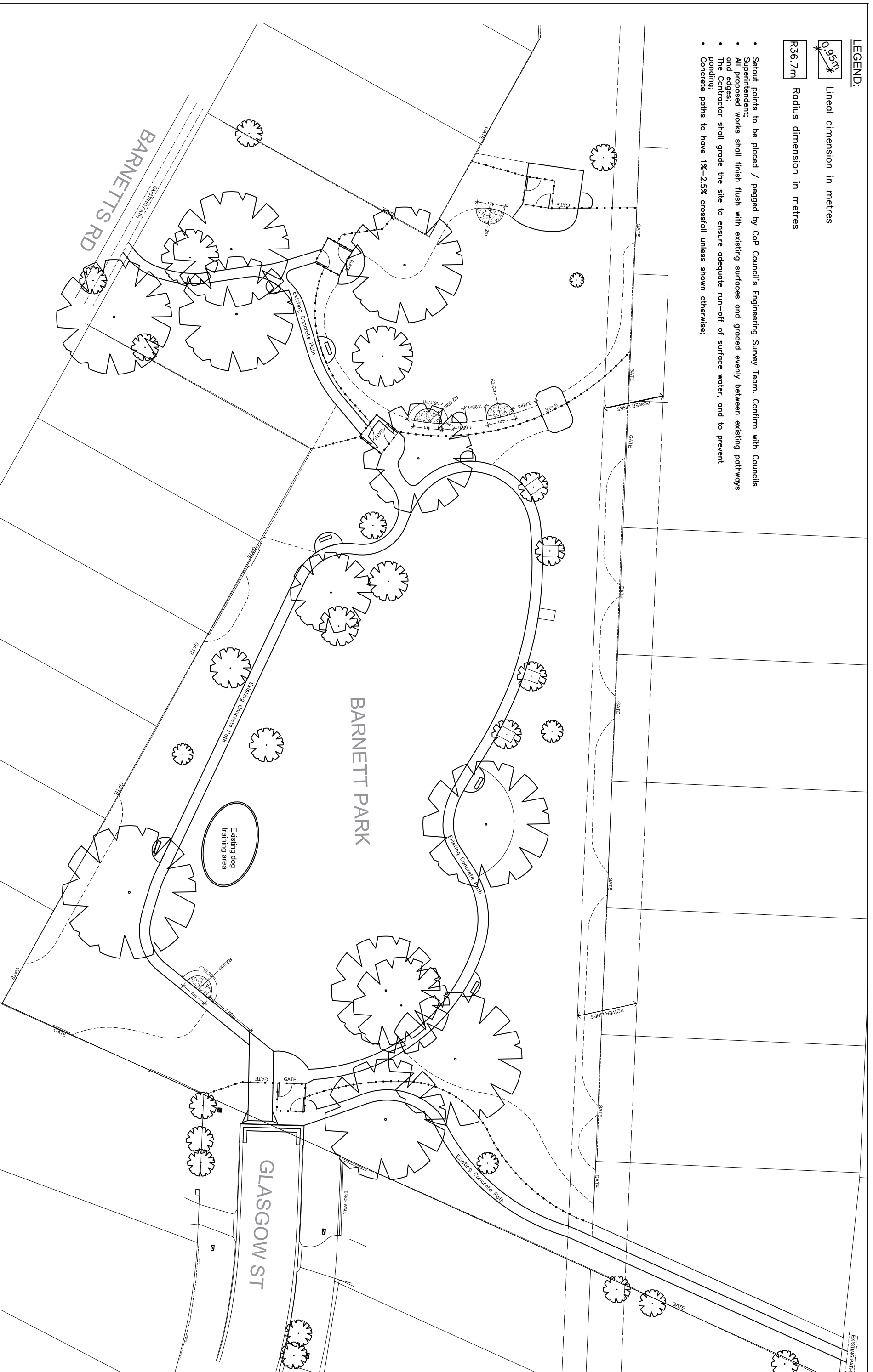
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LEGEND:

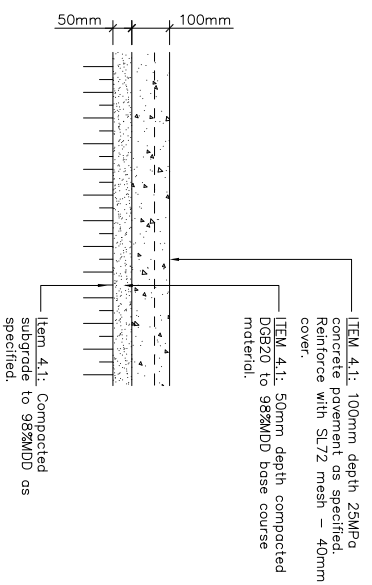
 Lineal dimension in metres

 Radius dimension in metres

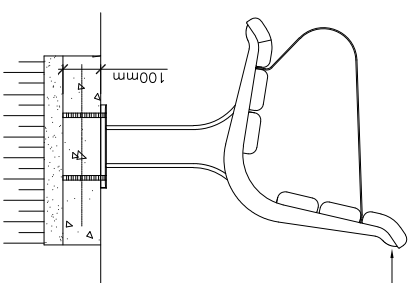
- Setout points to be placed / pegged by Cop Council's Engineering Survey Team. Confirm with Councils Superintendent;
- All proposed works shall finish flush with existing surfaces and graded evenly between existing pathways and edges;
- The Contractor shall grade the site to ensure adequate run-off of surface water, and to prevent ponding;
- Concrete paths to have 1%–2.5% crossfall unless shown otherwise;



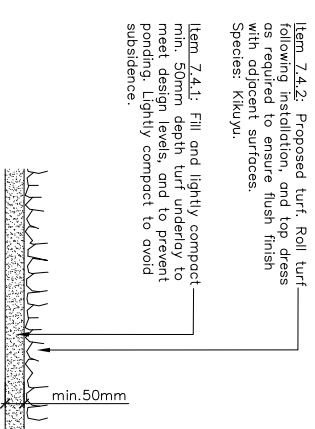
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Name:	Date:	Description:	
 		Co-ordinate: MGA Datum: AHD Design Approved Date: 16/8/22 Design Approved By: AC	
Client Accepted: _____ Date: _____ Approved for Construction: _____ Date: _____		Date: 16/8/22 Scale: 1:250 @ A1 Drawing Status: FINAL	
Project: Barnett Dog Park – Additional Landscape Works Barnett's Road, Winston Hills		Title: SETOUT PLAN Sheet No: 17887 Revision: 5	



ITEM 4.1: 100mm depth 25MPa concrete pavement, as specified. Reinforce with SL72 mesh – 40mm cover.
 ITEM 4.1: 50mm depth compacted D0520 to 95&M20 base course material.
 Item 4.1: Compacted subgrade to 95&M20 as specified.



ITEM 6.2: Proposed Gossi Park Courtyard Seat. Dynabolt base plate (1 dynabolt per fixing point) to concrete pavement. Dynabolts to be at least 100mm embedded into concrete pavement. Epoxy seal each dynabolt, as specified by the manufacturer. Ensure seat unit is installed with a horizontal flat plane. Refer to Manufacturer's specifications.

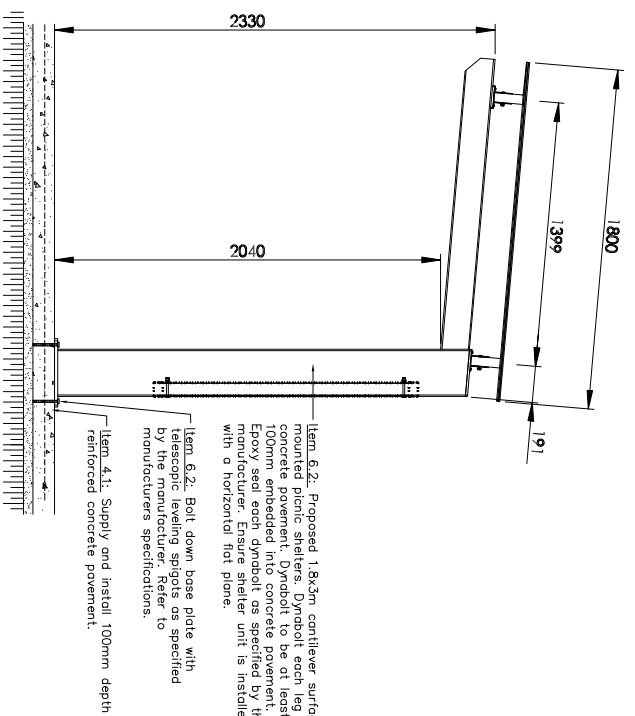


Item 7.4.2: Proposed turf. Roll turf following installation, and top dress as required to ensure flush finish with adjacent surfaces. Species: Kikuyu.
 Item 7.4.1: Fill and lightly compact min. 50mm depth turf underlay to meet design levels, and to prevent ponding. Lightly compact to avoid subsidence.

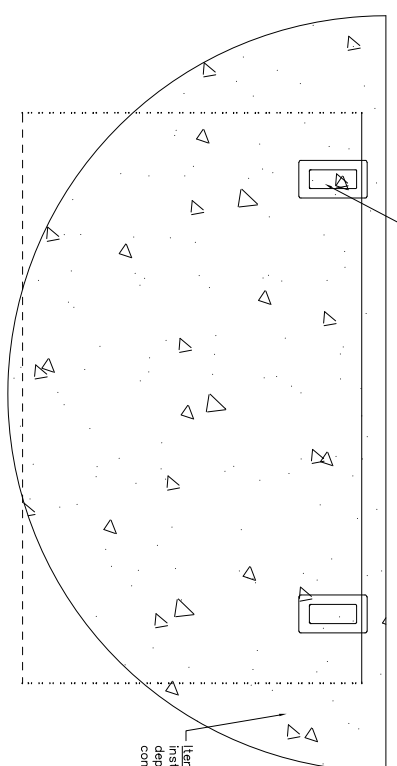
DETAIL – PROPOSED CONCRETE PAVEMENT
 Scale: 1:10

DETAIL – SURFACE MOUNTED SEAT UNIT
 Scale: 1:10

DETAIL – TURF AREA
 Scale: 1:10



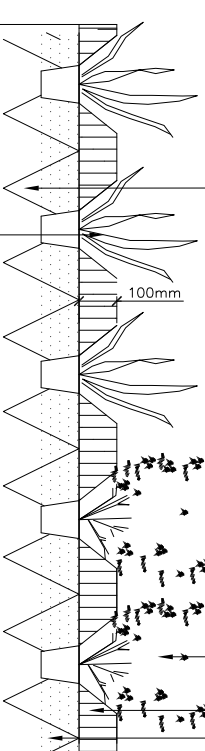
Item 6.2: Proposed 1,8x3m cantilever surface mounted picnic shelters. Dynabolt each leg to concrete pavement. Dynabolt to be at least 100mm embedded into concrete pavement. Epoxy seal each dynabolt, as specified by the manufacturer. Ensure shelter unit is installed with a horizontal flat plane.
 Item 6.2: Bolt down base plate with telescopic leveling spigots as specified by the manufacturer. Refer to manufacturer's specifications.
 Item 4.1: Supply and install 100mm depth reinforced concrete pavement.



Item 6.2: Proposed 1,8x3m cantilever surface mounted picnic shelters. Dynabolt each leg to concrete pavement. Dynabolt to be at least 100mm embedded into concrete pavement. Epoxy seal each dynabolt, as specified by the manufacturer. Ensure shelter unit is installed with a horizontal flat plane.

Item 4.1: Supply and install 100mm depth reinforced concrete pavement.

Item 7.1.1: Cultivate existing site soil to minimum 200mm depth and incorporate 'terrocoitem' soil conditioner at rates recommended by the manufacturer for new garden beds only. Refer to Details and Specification Notes.



Item 7.1.2: 50mm depth Australian Native Landscape's 'Organic Garden Mix' soil. Lightly compact to minimise voids and depressions.
 Item 7.3: 100mm depth Australian Native Landscape's 'Leaf Litter Mulch' or equivalent. Rake much to an even surface to finish flush with adjoining surfaces. Ensure mulch is clear of the base of plant stems.
 Item 7.2.2: Proposed 450mm depth plants. Top of rootball to finish flush with adjoining soil level. Water to field capacity following installation.
 Item 7.4.1: Proposed plants. Top of rootball to finish flush with adjoining soil level. Water to field capacity following installation.

DETAIL – PROPOSED SHELTER – SIDE VIEW
 Scale: 1:20

DETAIL – PROPOSED SHELTER – TOP VIEW
 Scale: 1:20

DETAIL – TURF AND GARDEN BED PLANTING
 Scale: 1:10

	Issue:	Date:	Description:	Co-ords:	Datum:	Designed:	Date:	Client Accepted:	Date:	Date:	Project:	Page No:
				MGA	AHD	CC	16/8/22				Barnett Dog Park – Additional Landscape Works Barnetts Road, Winston Hills	17887
						CC	16/8/22	Approved for Construction:	Date:		DETAILS SHEET	Sheet No:
						AC	16/8/22	Service Manager Capital Projects				6
												Revision: