



Prepared for

Combined Projects [Westmead] Pty Ltd Level 3, 161 Redfern St, Sydney NSW 2016 | T +61 Z 8665 4100

Submission Status

Development Application - Landscape 13/12/2016

This statement should be read in conjunction with Scott Corver Landscape Planning Proposal drawings 2016070 LD DA, dated December 2016. Prepared by Scott Carver

This Deelgn Report provides an explanation that verifies how the development addresses how design quality principles are achieved, and demonstrates, in terms of the DCP + Apartment Design Guidelines [ADG], how the objectives and relevant sections have been achieved.

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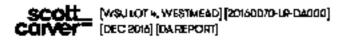
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Introduction + Context





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1.1 Introduction + Context

SITE OVERVIEW

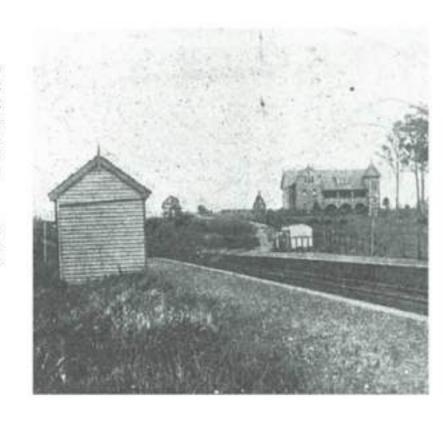
Combined Projects (Westmead) have been successful in acquiring land from the University of Western Sydney to carry out a residential development adjacent to Westmead Hospital and Railway Station which is known as Lot 4. Lot 4 comprises of 355 residential apartments including a streetscape treatment, communal landscape podium, communal rooftop terrace and adjacent threshold works. The community will be supported by quality open space, recreational amenities and community facilities. The development will enhance the Westmead region and will encourage community interaction.

The site has been identified by Scott Carver and Parramatta DCP as a 'Special Precinct' in that it lies on a key transport junction at Hawkesbury Road and Darcy Road and is adjacent to Westmead Railway Station and proposed light rail works + planning.

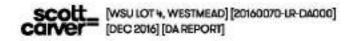
DEVELOPMENT DESCRIPTION

The development application reflects the development as described below:

- (a) Lot 4 355 residential apartments
- (b) Extensive communal podium courtyard areas
- (c) Basement level car parking
- (d) Private shared zone between lot 4 and 3 with pedestrian pathways
- (e) Communal rooftop terrace
- (f) Open communal space and surrounding
- (g) Landscaping areas throughout the site.







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1.2 Landscape Specifics + Compliance

APARTMENT DESIGN GUIDE (ADG)

The landscape design is compliant to the following Cojectives in the ADG Design Principles and NSW Planning 6 Environment Apartment Design Guide

Part 3: 30 Public comoin interface Part 4: 4F Common circulation and spaces Part 4: 40 Ianascape Design Part 4: 4P Planting on structures

ADG Principles: Landscape

Goad design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well designed developments is admixed by contributing to the landscape character of the streetscape and reighbourhood. Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, coordinating water and soil management, so ar access, microclimate, thee contapy, habital values, and preserving green networks.

Good and scape design optimises usability, privacy and opportunities for social interaction, equitable access, respect for neighbours' omenity, provides for practical establishment and long term management are a result of a cellaborative exploration of ideas and knowledge-sharing via strategic partnerships amongst peers and alients of ike.

PUBLIC DOMAIN GUIDELINES - PARRAMATTA CITY COUNCIL [URBAN DESIGN UNIT] [JANUARY 2016]

Scott Carver recognises the public domain guidelines for Westmeda Town Centre provided by Parramatta City Council. SC recognises the daving treatment in Westmeda will also comprise high quality stanefinishes and a relaxed blend of granite tones is proposed referencing the colour od ette from the other town centres.

The following documentation has been prepared in reference with the following

- Public Domain Guidelines Parrametta City Council -Westmeod Town Centre [2016]
- Parramatta Development Control Plan 2011 Part 4 -Westmead Special Precinct
- Parramatta Development Control Plan 2011 Part 3
- Statement of Heritage Impact Graham Brooks & Associates [2014]
- Westmead Campus Redevelopment Stage 1 Landscape DA Design Report - Tract [2014]
- Arboricultural Assessment Report, University Of Western Sydney (UWS) Westmead Precinct, 158-160 Hawkesbury Road, Westmead - Andrew Morton, Earthscape Harticultural Services (2016)
- Arboricultural Impact Assessment, Lot 4 158-160
 Howkesbury Road, Westmead Hayden Coulter, The Ents
 Tree Consultancy [October 2016]

Scott Carver has recognised + incorporated the following objectives out lined in the Parramotta Development Control Plan 2011 Part 3.3.1 Landscoping:

- To conserve significant natural features of the site and contribute to effective management of biodiversity.
- To retain and provide for mature vegetation, particularly large and medium sizes trees.
- To provide continuous vegetation corridors.
- To encourage the planting of indigenous, native and low water consumption plants and trees.
- To enhance the existing streetscape and promote a scale and density of planting that softens the visual impact of buildings.
- To provide privacy and omenity.
- To promote energy efficiency by enhancing both solar access and shade.
- To provide for the infiltration of water to the water table, min mise run-off and pasist with stormwater management.
- To ensure developments make an equitable contribution to the landscape setting of the locality.

The following figures represent the development's landscape + open space compliance with Parramatta Council DCP Guidelines and ADG:

Communal Open Space

Communal Open Area = 3,557.52 sqm = 54% (ADG min reg. 25%)

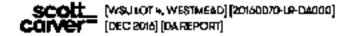
Landscaped Area [DCP]

Total Landscaped Area = 1073 sgm = 16.3%

Deep Soil Area [ADG Part 3E]

Deep Soil Area = 856.44 sgm = 13% [ADG min reg. 7%]

[Please note these are approximate figures. Refer To Architects Documentation 16001 DA 110 001]



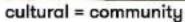
Vision



2.1 Vision Statement

'WSU - LOT 4'







ecological = haven



social = place

To create a new cultural +
ecological + social heart
engaging Westmead and its
diverse communities

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2.2 Vision

community+

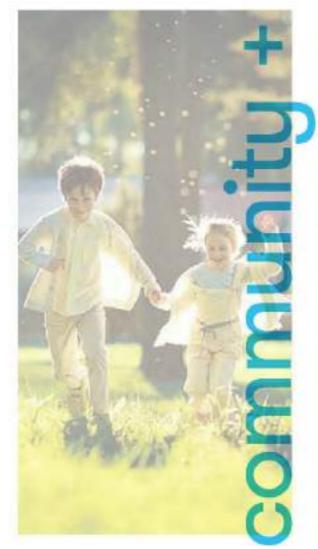
The landscape proposal is designed to complement the architecture of the development, while providing environmental amenity within an attractive setting. The design will provide and enhance the community's connection with their site and also with its history and significant heritage by creating spaces for people to congregate, meet and connect.

haven+

The landscape master plan seeks to draw from the sites existing ecology in particular the existing significant trees on site which will compliment the sites setting through the use of complimentary planting, materials and finishes. The proposed planting will have all year round colour, variation, and strong defined forms. The Landscape planting for the site will also contrast the existing native ecology in areas of heavy shade through mass + dense planting and sensory gardens creating an urban jungle for people to experience on an active basis. The landscape will consider the surrounding urban setting, while creating a high quality residential development and public domain interfaces.

place+

To create a high quality residential development appropriate to the local urban setting. The sense of place of the site will restore, reinforce and forge a new community identity and ownership. The intent is to design a quality series of private and public spaces, providing amenity for community connection, leisure, transportation links, and open spaces. These autcomes are achieved with a contemporary landscape setting that acknowledges the functional requirements of the site, while acknowledging the wider urban context.









Design Objectives + Analysis



3.1 Design Objectives + Analysis

LANDSCAPE OBJECTIVES / PRINCIPLES

The landscape master plan will address the following design objectives:

- Enhance the appearance and amenity of the proposed residential development by sensitively integrating architecture and landscape through effective site planning and landscape design.
- Create an identifiable residential development and public domain with range of inviting and safe accessible open spaces and linkages.
- Take forward the landscape principles and urban design principles established by the Parramatta City Council DCP 2011 Part 4.3.4 - Westmead Strategic Precinct + Westmead Campus Redevelopment Stage 1 Landscape DA Design Report by Tract August 2014.
- Establish a visually and environmentally sensitive landscape, complimentary to the architectural vision and greater urban setting, while providing high quality private spaces for residents and visitors.
- Capitalise on the location of the Westmead Precinct by creating an effective, safe, and inviting transportation node due its close proximity to Westmead Railway Station and adjacent T-Way bus network.
- Assimilate the development into the surrounding urban context through the development of an integrated and permeable landscape and open space environment

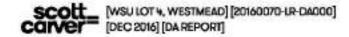
- Incorporate water sensitive urban design principles and environmentally sensitive design to areate a low maintenance, environmentally sensitive landscape that has a distinctive tree canopy with diverse low shrub groundcover and expanses of lawn.
- Create a large variety of high quality public open spaces which can accommodate a range of active and passive recreational and social activities.
- Ensure accessibility for all within a safe and secure urban domain whilst accommodating a range of passive recreational and social activities within the public domain.

The landscape design for the site incorporates water sensitive design principles and environmentally sensitive design such as a WSUD rain gardens to create a low maintenance, environmentally sensitive landscape that has a distinctive tree canopy with diverse low shrub groundcover under with lawn expanses.

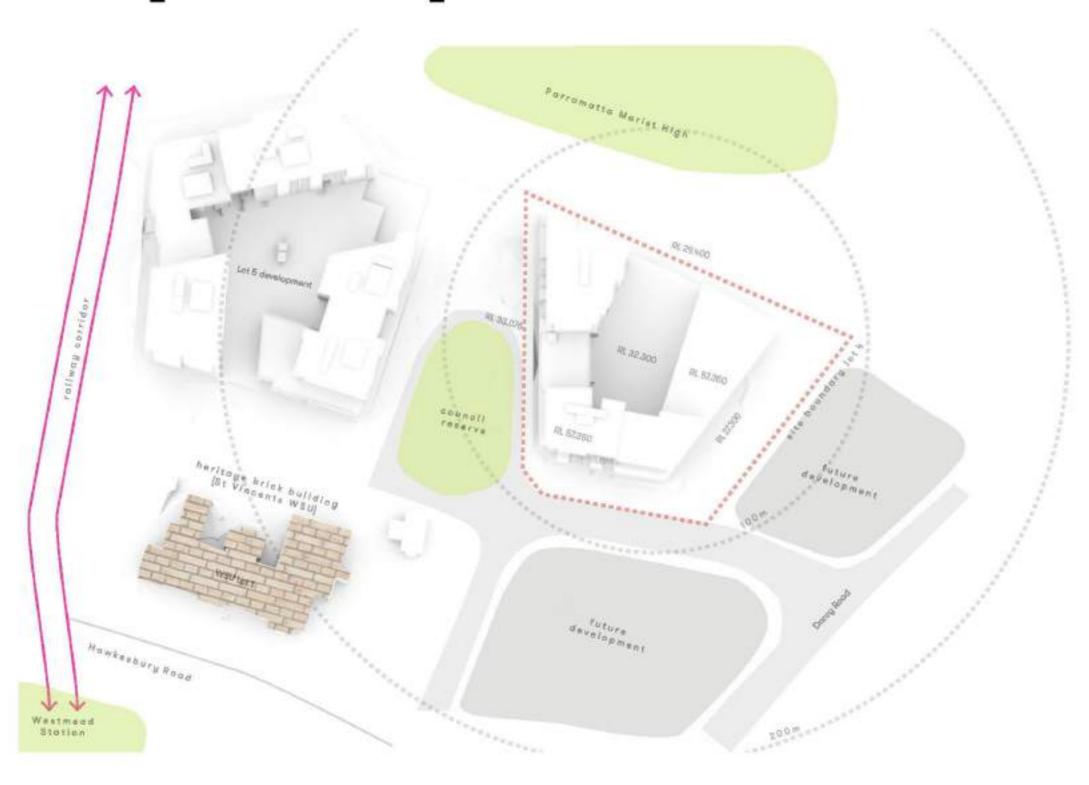
The Landscape planting for the site will have a extensive native canopy and compliment the existing Parramatta City Council DCP 2011 Part 3 - Landscape. The Landscape planting for the site will have a minimum of 70% of indigenous / water sensitive planting species where appropriate solar access is available.



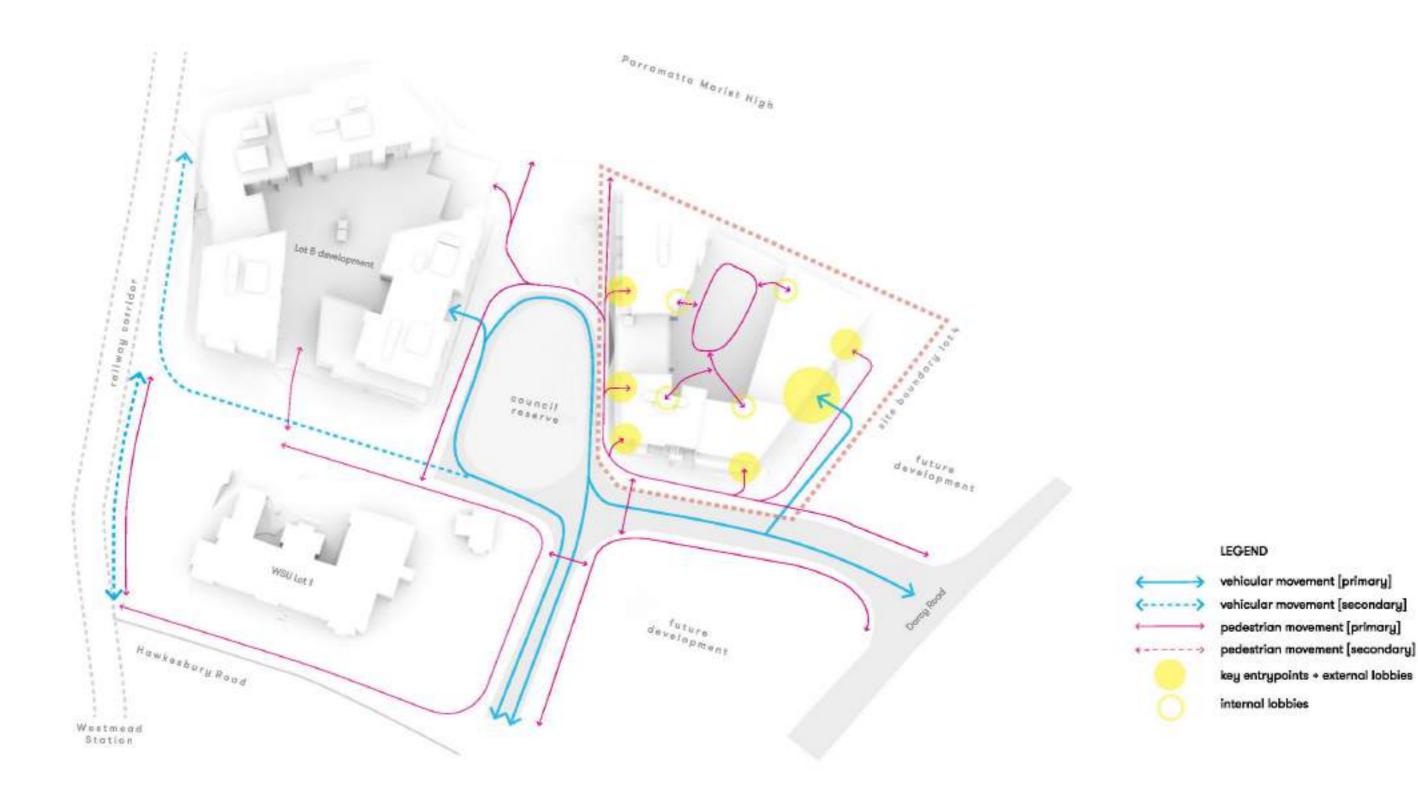




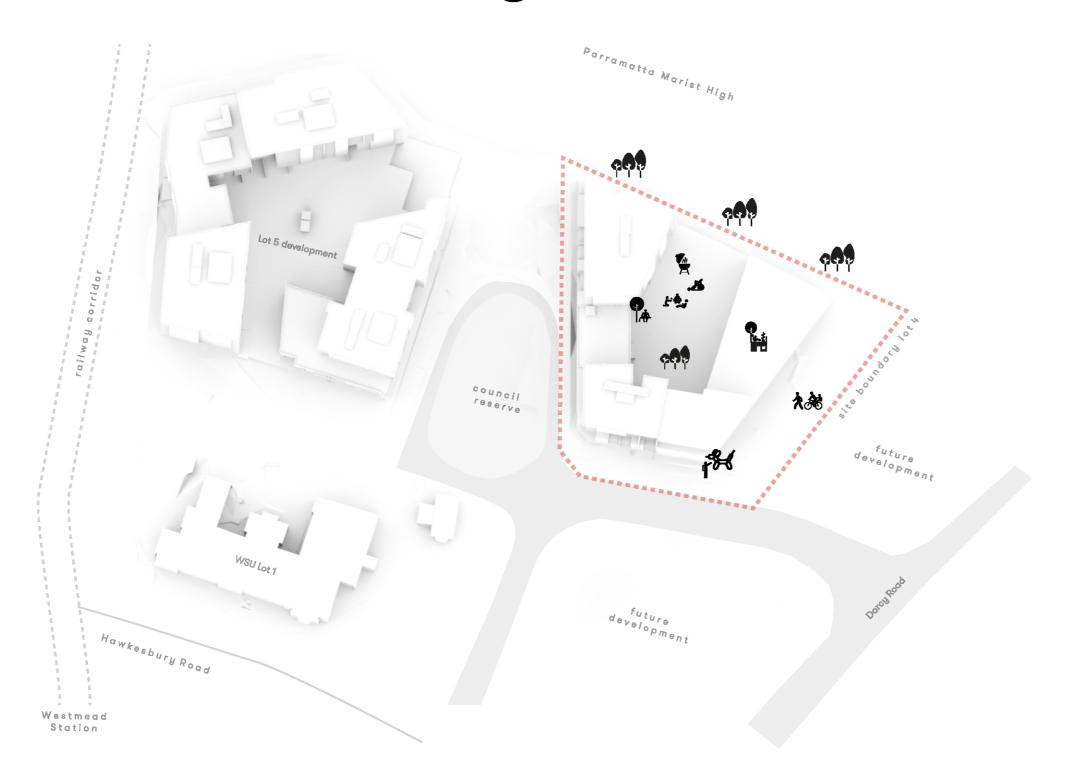
3.2 Site Opportunities + Constraints [contextual]



3.3 Access + Circulation



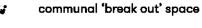
3.4 Activation + Programme

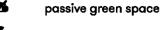


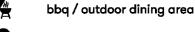
LEGEND

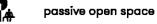


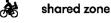
'jungle' mass planting + path

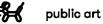










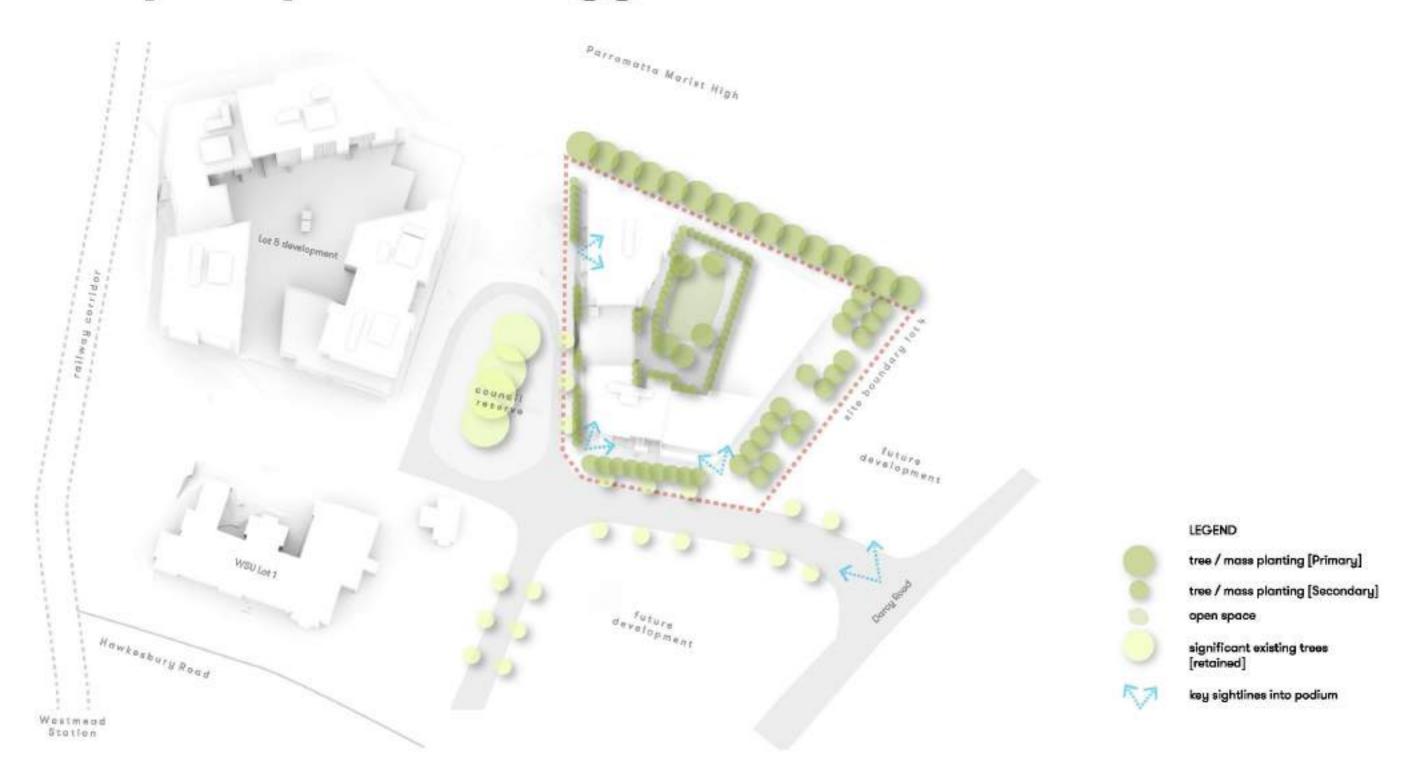


kick about lawn



communal rooftop terrace

3.5 Open Space Strategy



Master plan







Master plan



4.1 Master Plan + Design Objectives

DESIGN INTENT - WHY?

The design is intended to bring the proposed community together and engage them with the original story of place. The heritage component of this project allows the new community to have common ground and reignite the sense of place within Westmead.

AMENITIES PROVIDED - HOW?

A key design feature of the landscape and open space is to place an emphasis on the community through the placement of swimming pools, BBQ areas and communal open spaces both on groundfloor podium and rooftop terrace to give residents the opportunity to engage and congregate with each other and form their own community.

DESIGN OUTCOME - WHAT?

The following amenities, open spaces + community gathering spaces have been provided to achieve our vision:

- Large landscape communal podium with breakout spaces, sensory mass planting and seating areas
- Pool and lounge deck areas with BBQ facilities and outdoor dining amenity
- Community Room with inside / outside breakout spaces for community gatherings and functions
- Rooftop Terrace for additional open space with amenity for passive recreation and outdoor dining including BBQ
- Forecourt plaza area with feature grove for congregation around key lobby entries and for public open space



BASIX CALCULATIONS

Communal Podium

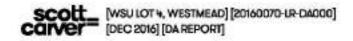
- 1036m2 of communal open space
- 337m2 raised planters
- 181m2 turfed areas
- 518m2 permeable surfaces

Ground Floor / Lower Ground Floor / Public Domain

- 2092m2 total area
- 900m2 planters (deep soil)
- 173m2 raised planters

Rooftop Terrace

- 563m2 of communal open space
- 225m2 raised planters



4.2 Public Domain

OVERVIEW / DESIGN INTENT

The proposed shared streetscape which results in a more seamless transition from Lot 4 to Lot 3, slowing down traffic and allowing pedestrians and cyclists to commute in a comfortable and friendly environment to the proposed developments. An avenue of Magnolia trees and public art strengthen this connection.

AMENITIES PROVIDED:

- Shared Street with flush kerbs and and permeable paving to maximise water infiltration and minimise hard surface runoff.
- Formalised entry into the communal podium and proposed Lot 4 development
- Proposed seating under shaded canopies within building forecourt
- Public art incorporated into main pedestian and vehicular sightlines at the corner of the proposed development
- Raised planters located above OSD basin









4.3 Canopy Walk

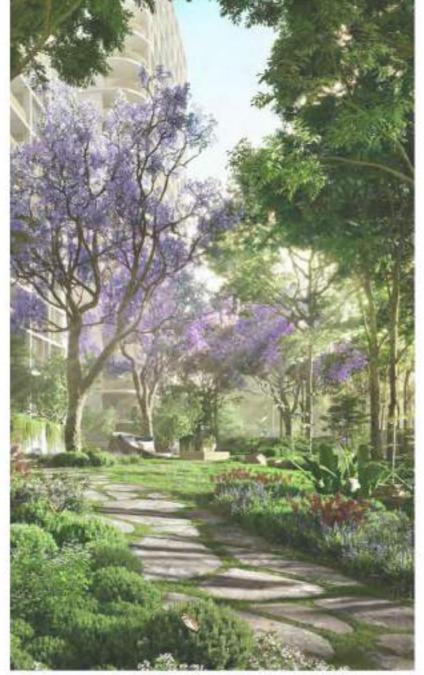
OVERVIEW / DESIGN INTENT

The communal landscape podium aims to create a series of spaces for relaxtion, contemplation and engagement with the soft lush landscape which surrounds each space in a dense lush jungle like manner. The planting palette adapts to areas which receive extensive solar to those which are covered in partial to full shade. The denseness of the planting with the insitu concrete walls make this landscape podium quite sculptural and allows residents to experience this notion through a wayfinding process, through meandering natural pathways..

AMENITIES PROVIDED:

- Lush, dense jungle like planting for relaxtion + contemplation
- Bespoke arbour with BBQ + outdoor dining amenities
- Open lawn areas providing an oportunity for active and passive recreation
- Secluded gathering areas to create a sense of Intimacy
- Curvilinear Seating + lighting throughout podium for amenity
 CEPTED under shaded tree canopies.









4.4 Communal Rooftop Terrace

OVERVIEW / DESIGN INTENT

The communal rooftop terrace is an offering for residents who wish to meet and engage in a passive and secluded environment. The rooftop terrace provides an outdoor BBQ and dining space with feature planting and shade canopy. In addition there are multiple raised timber pods which act as lounge spaces to make the most of the northern aspect where residents can enjoy their afternoon sun. The form also reciprocates that of the podium making it quite a sculptural landscape feature in the development.

AMENITIES PROVIDED:

- Feautre lounge deck with BBQ + outdoor dining amenities
- Raised timber pod lounge areas with seating walls
- Seated concrete walls with lighting and feature planting to the edge of rooftop to provide amenity against wind and sun exposure
- Astro turf area for passive recreation
- · Raised timber deck with furniture to maximise views









Indicative Planting + Materials Palette



5.1 Planting Palette

LANDSCAPE SPECIFICS

The plant palette used for the site should reinforce all the themes as previously discussed. The environmental theme requires that the planting palette draw from the existing local vegetation communities.

In general;

Street trees should respond to the street hierarchy and Council's street tree list Parramatta Council DCP + Public Domain Guidelines + Westmead Town Centre Public Domain Guidelines.

The following list outlines the signature planting for the site and has been established with reference to the **Parramatta**Council DCP + Landscape Technical Guidelines

OBJECTIVES:

To increase the number of indigenous species planted in Parramatta City Council

To eliminate the use of noxious weeds of potentially invasive species in developments

To use plants in such a way to foster energy efficient developmnt that relies on passive energy principles for heating and cooling

To reduce maintnance and water consumption through apprpriate species selection

to create buffer zones and add to existing areas of reminant vegeation with locally indigeneous species

To increase the number of trees planted in the city to provide, shade, habitat, aesthetic improvements and dust control The proposed planting will have all year round colour , variation , and strong defined forms

The landscape design for the site incorporates water sensitive design principles and environmentally sensitive design such as a WSUD shrubs + groundcovers to create a low maintenance, environmentally sensitive landscape that has a distinctive tree canopy with diverse low shrub groundcover under with lawn expanses.

The Landscape planting for the site will have a minimum of 70% of indigenous / water sensitive planting species where appropriate solar access is available.





Planting Palette

Public Domain / Ground Floor / Lower Ground Floor

Batanic Name	Common Name	Native/ Exotic	Size
Trees	,	7.	117
Corymbia citriodora	Lemon Scented Gum	Native	500r
Corymbia maculata	Spotted Gum	Native	200L
Lageretroemia indica natchez	White Crape Myrtle	Exotic	400L
Magnelia grandiflora 'Exmouth'	Bull Bay Magnolia	Exotic	100L
Tristaniopsis laurina	Water Gum	Native	200L
Waterhousia floribunda 'Green avenue'	Weeping Lilly Pilly	Native	100L
Shrubs and Grasses	V	No.	XC.
Dianella caerulea	Blue Flax Lily	Native	150mm
Lomandra longifolia "verday"	Mat-rush	Native	160mm
Lomandra hystrix	Mat-rush	Native	150mm
Phatinia 'red robin'	Red robin	Native	300mm
Poa labillardieri "Eskdale"	Tusacck Grass	Native	150mm
Westringia fruiticosa	Coastal Rosemary	Native	200mm

Building D2 Rooftop - Level 6

Accents

Agave attenuata	Fox Tail Agave	Exotic	150mm
Phormium tenax 'Pink Ribbon'	New Zaland Flax	Exotic	160mm
Low Shrubs 6 Ground Covers	-	05	100
Carpobrotus glaucescens	Pig-face	Native	140mm
Senecio Mandraliscae	Blue Chalk Sticks	Exotic	140mm

Communal Rooftop Terrace - Level 8

Citrus x meyeri	Meyer lemon	Exotio	100L
Magnolia grandiflora 'Little Gem'	Magnolia 'Litte Gem'	Native	100L
Plumeria rubra acutifolia	Frangipani	Exotic	100L
Tristaniopeis Igurina	Water Gum	Native	100L

Low Shrubs & Ground Covers			
Agave attenuata	Fox Tail Agave	Exotio	150mm
Anigozonthos hybrid 'Gold Velvet'	Kangaroo Paw 'Gold Velvet'	Native	150mm
Banksia ericifolia	Heath-leaved Banksia	Native	300mm
Carpobrotus Menziesil	Pigface	Native	150mm
Cistus monspeliensis	Rockrose	Exotic	150mm
Dianella caerulea	Blue Flax-lily	Native	150mm
Grevillea rosmarinifolia	Crimson Villea	Native	300mm
Ricinocarpos pinifolius	Wedding Bush	Native	150mm
Syzygium australe 'Pinnacle'	Lilly Pilly	Native	300mm







Lomandra longifolia 'verda





Senecio Mandraliscae









Communal Podium

Trachelospermum jasminiodes

Botanic Name

		Exotic	1 (27,000)
Trees		-	
Angophora costata	Smooth-barked Apple	Native	45L
Cupaniopsis anocardioides	Tuckeroo	Native	200L
Elaeocarpus reticulatus	Blue Berry Ash	Native	100L
Backhousia myrtifolia	Clinnamon Myrtle	Native	46L
Gleditsia triacanthos	Honey Locust	Native	200L
Jacaranda mimosifolia	Fern Tree	Exotic	200L
Lophostemon confertus	Brush Box	Native	45L
Syzygium luehmannii	Small Leaved Lily Pily	Native	45L
Tristaniopsis laurina	Water Gum	Native	100L
Waterhousia fioribunda 'Green avenue'	Weeping Lilly Pilly	Native	45L
Shrubs and Grasses	A. 000AB - B - B	di .	
Acmena smithii 'DOW 30'	Acmena Sublime	Native	300mm
Adiantum aethiopiaum	Maiden Hair fern	Native	150mm
Alternanthera dentata	Ruby Leaf Alternanthera	Exotic	200mm
Asplenium australasicum	Birds Nest Fern	Native	200mm
Bambusa textilis	Slender Weaver bamboo	Exotic	150mm
Boronia floribunda	Pink Baronia	Native	Exotio
Clivea minata	Clivea lily	Exotic	Exotic
Correa alba	White Correct	Native	150mm
Cyathea cooperi	Rough Tree Fern	Native	300mm
Cycas revoluta	Cycod	Exotic	200mm
Dianella caerulea var caerulea	Blue flox lily	Native	150mm
Grevillea linearifolia	White spider flower	Native	150mm
Grevillea 'Poorinda Royal Mantle'	Prostrate Grevillea	Native	150mm
Liriope 'Evergreen Giant'	Evergreen Glant	Exotic	150mm
Lomandra Longifolia	Mat Rush	Native	200mm
Philadendron xanadu	Xanadu	Exotic	150mm
Poa	Tussock gross	Native	150mm
Syzygium australe "Pinnacle"	Lilly Pilly	Native	150mm
Westringia fruiticasa	Coastal Rosemary	Native	200mm
Climbers and Ground Covers	And trade and the control of the	A. Caracian	u Aventania i
Dichondra repens	Kidney Weed	Native	150mm
Hardenbergia violacea	False sarsaparilla	Native	200mm
Pandorea pandorana	Wonga wonga vine	Native	150mm
		1 4 7 7 7	

Star Jasmine

Common Name

Native/

Size









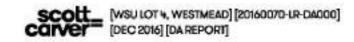








200mm



5.2 Materials Palette

In consulation with Council The material palette has been prepared in conjunction with the following appencies

Parramatta City Council DCP 2011 Part 3 + 4: Communal open space and landscape + Westmead Special Precinct

Parramatta City Council Landscape Technical Guidelines:

Parramatta City Council Public Domain Guidelines; Section 5.2.4 Westmead Town Centre

A fundamental premise of the landscape master plan is the selection of materials for the public domain. For the Westmead site materials such as concrete paving, stone and timber are recommended as they reflect the regional and cultural setting

Materials should be selected to provide consistency throughout the development as well as to bring out the cultural values enriching the themes of open spaces.

The material selection should be culturally sensitive throughout the public domain. The combination of grasses, trees and shrubs, as well as rock, sandstone, and timber should be explored and integrated into the public realm.

The material selection should reflect on going consultations with Heritage and council representatives

The Public Domain materiality will develope in accordance with and respect the principles outlined in the

Parramatta City Council Public Domai Guidelines

Materials should be enduring and robust, have a low carbon footprint and be low maintenance.

The fundamental objectives of the proposed materiality is to:

- Design for Pedestrian Priority
- Emphasise and Enhance Activation
- Improve Public Domain Quality

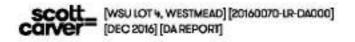
PUBLIC DOMAIN GUIDELINES

Parramatta City Council - Urban Design Unit

JANUARY 2016



Extract from Parramatta City Council Public Domain Guidelines



Materials Palette

Materials + Finishes + Furniture

ITEM	FINISH
Wall type 1: Insitu off white formed concrete walls, 500mm wide x 450mm high with LED strip lighting + timber cladding	White concrete off formed class 2
Wall type 2: Insitu off white formed concrete walls, 200mm wide	White concrete off formed class 2
Wall type 3: Bespoke precast concrete wall, 200mm - 500 mm wide	White concrete off formed class 2
Paving Type 1: Concrete pover "Dark Grey" 500 × 300 × 50mm (note: to match existing public domain paving)	Exfoliated. Laid in stretcherbond. To council standards.
Paving Type 2: Permeable paving "Arctic White" 200 × 100 × 600mm.	Exfoliated. Laid in stretcherbond. To council standards
Poving Type 3: Large format steppers. 2000 × 500 × 40mm precast concrete.	Exfoliated. Laid in stretcherbond. To council standards.
Paving Type 4: Sawn stone flagging - random dimension (minimum to be 300mm)	To Council standards
Paving Type 5: Napean River Gravel - 10mm	Crushed River Grovel
Paving Type & Decomposed granite paving - grey colour	Crushed granite paving
Paving Type 7: Large format steppers. 1000 = 300 = 30mm precast pavers.	Exfoliated. Laid in stretcherbond. To council standards.
Paving Type 8: Concrete pover mix 'Dark Grey and Mid Grey' 300 × 300 × 30mm.	Exfoliated, Laid in stretcherbond,
Seating Type 1: Seat proprietary item	Street Furniture Australia - Concourse 3 Seater
Seating Wall (SW): Minimum 500mm wide x 450mm high hardwood timber cladding to insitu concrete wall.	White concrete off formed class 2
Timber Deaking	Medwood Timber Deaking
Podium Bollard (with LED light)	Street Furniture Australia "Light LED Bollard"







Wall Type 3





The material palette has been prepared in conjunction with the following appendices:

Parramatta DCP 2012: Part 3 - Landscape

Westmead Town Centre Public Domain Guidelines

Stage 1 Approved DA Landscape Report [TRACT]

A fundamental premise of the landscape master plan is the selection of materials for the public domain. For WSU Lot 5 site materials such as concrete paving, stone and timber are recommended as they reflect the regional and cultural setting

Materials should be selected to provide consistency throughout the development as well as to bring out the cultural values enriching the themes of open spaces.

The material selection should be culturally sensitive throughout the public domain. The combination of grasses, trees and shrubs, as well as rock, sandstone, and timber should be explored and integrated into the public realm.

The material selection should reflect on going consultations with council representatives

Materials should be enduring and robust, have a low carbon footprint and be low maintenance.

The fundamental objectives of the proposed materiality is to:

- Design for Pedestrian Priority
- Emphasise and Enhance Activation
- · Improve Public Domain Quality



Appendices: DA Drawing Set



WSU LOT 4, WESTMEAD

158 - 164 Hawkesbury Road, 2a Darcy Road WESTMEAD NSW 2145

LANDSCAPE - DEVELOPMENT APPLICATION

LANDSCAPE D	RAWING REGISTER	2000
SHEET	SHEET NAME	REVISION
LD-DA000	COVER SHEET	Α
LD-DA100	TREE MANAGEMENT PLAN	Α
LD-DA101	GENERAL ARRANGEMENT PLAN	Α
LD-DA102	GROUND FLOOR / LOWER GROUND FLOOR DETAIL PLAN 1	A
LD-DA103	GROUND FLOOR / LOWER GROUND FLOOR DETAIL PLAN 2	Α
LD-DA104	BUILDING D2 - LEVEL 6 ROOF TOP PLAN	A
LD-DA105	LEVEL 8 - ROOFTOP TERRACE	Α
LD-DA200	GROUND FLOOR SECTION AA	A
LD-DA201	GROUND FLOOR SECTION BB	A
LD-DA202	GROUND FLOOR SECTION CC	Α
LD-DA203	LEVEL 8 - ROOFTOP TERRACE SECTIONS	Α

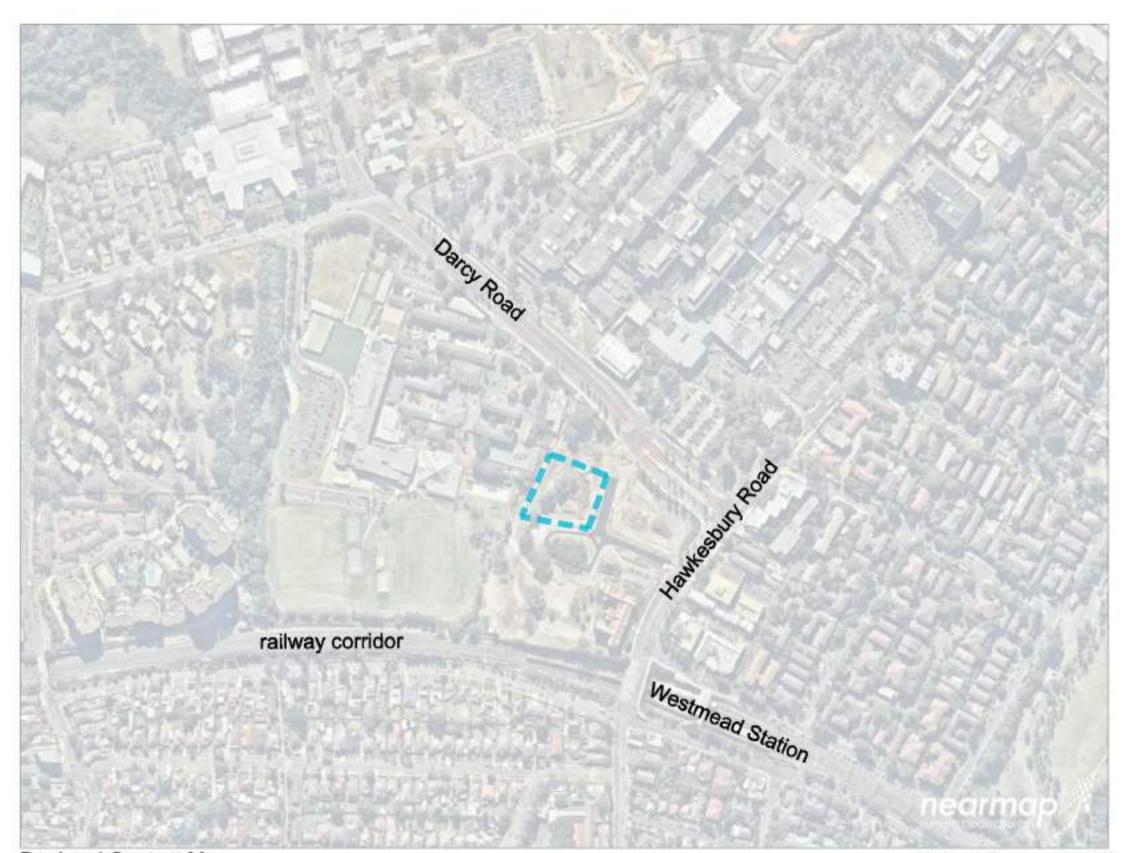
* PLEASE NOTE PLANS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DA DESIGN REPORT PREPARED BY SCOTT CARVER

20160070-LR-DA000 LANDSCAPE DA DESIGN REPORT

Status:DEVELOPMENT APPLICATION

20160070-LD-DA100 [1].DWG

20 DECEMBER 2016



Regional Context Map Site Reference N.T.S



Scott Carver Pty Ltd Telephone +61 2 9957 3968
Level One, One Chifley Square
Sydney NSW 2000 Australia www.scottcarver.com.au

Reference No. 20160070

Discipline LD

DA000 A

COVER SHEET





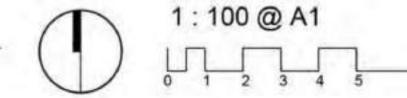




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WSU - LO
Project
Client
COMBINE

WSU - LOT 4 WESTMEAD





Status DEVELOPMENT APPLICATION

Charlie Robinson RLA #5898

File: 20160070-LD-DA105 - ROOFTOP.DWG

20 DECEMBER 2016

A DEVELOPMENT APPLICATION 20.12.2016

LEGEND:

+600 Proposed nominal design levels

Proposed trees with mounding RPA. Raised planter area

1 6m high glass balustrade edge

RAISED planter area 450mm min with max 1:3 graded mounding to achieve depth.

W2 Wall type 2: Insitu off white formed concrete walls, 200mm wide grade 2 finish

W3 Wall Type 3: Bespoke precast concrete wall. High grade class 2 finish.

SW Seat Wall: Minimum 500mm wide hardwood timber cladding to insitu concrete wall - grade

P4 Paving Type 4: Sawn sandstone flagging-random dimension (minimum to be 200mm)

PS Paving Type 5: Nepean river gravel -10mm.

P7 Paving Type 7: Large format steppers. 1000 x 300 x 30mm precast concrete.

P8 Paving Type 8: Concrete Paver mix Dark Grey and Mid Grey 300 x 300 x 30mm Finish: exfoliated

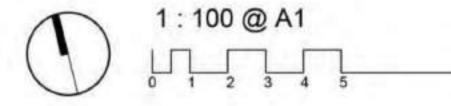
TD Modwood timber decking placed on 20mm

AT Artificial Turf

pgg Galvanised Steel Structure with stainless steel trellis for climbers.

U. Uplighting to engineers documentation and to council standards

Landscape plan to be read in conjunction with the Architectural and Engineers dwgs



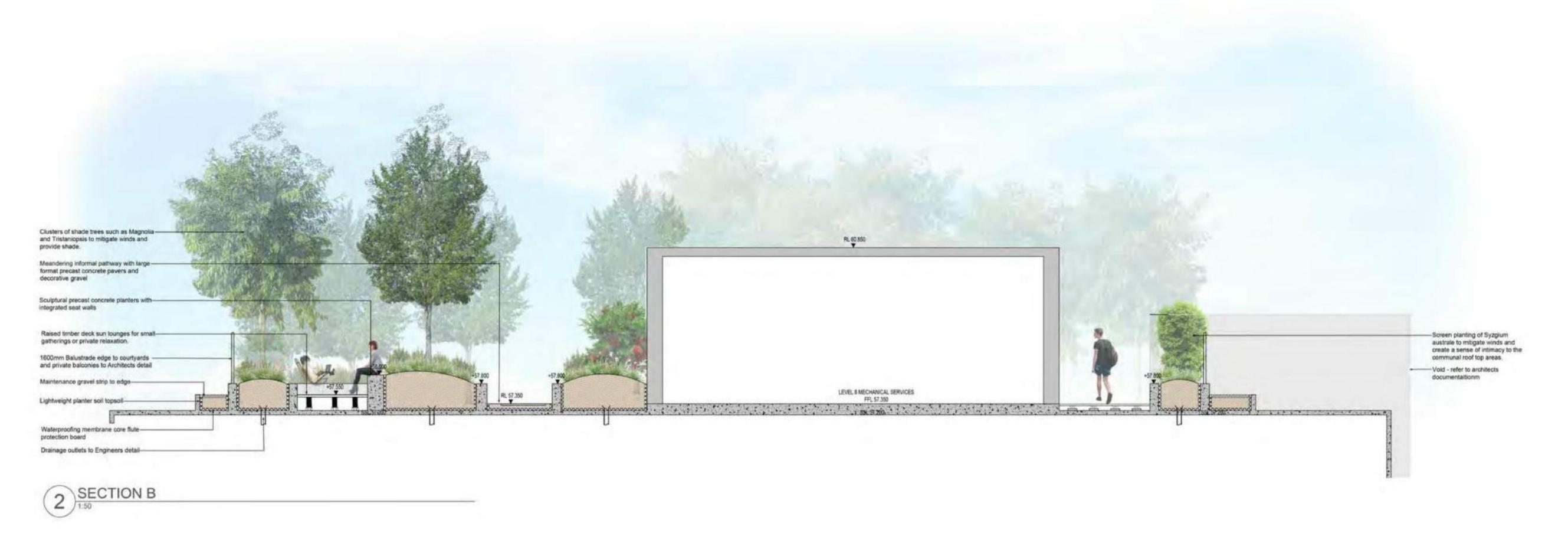






A DEVELOPMENT APPLICATION 20.12.2016



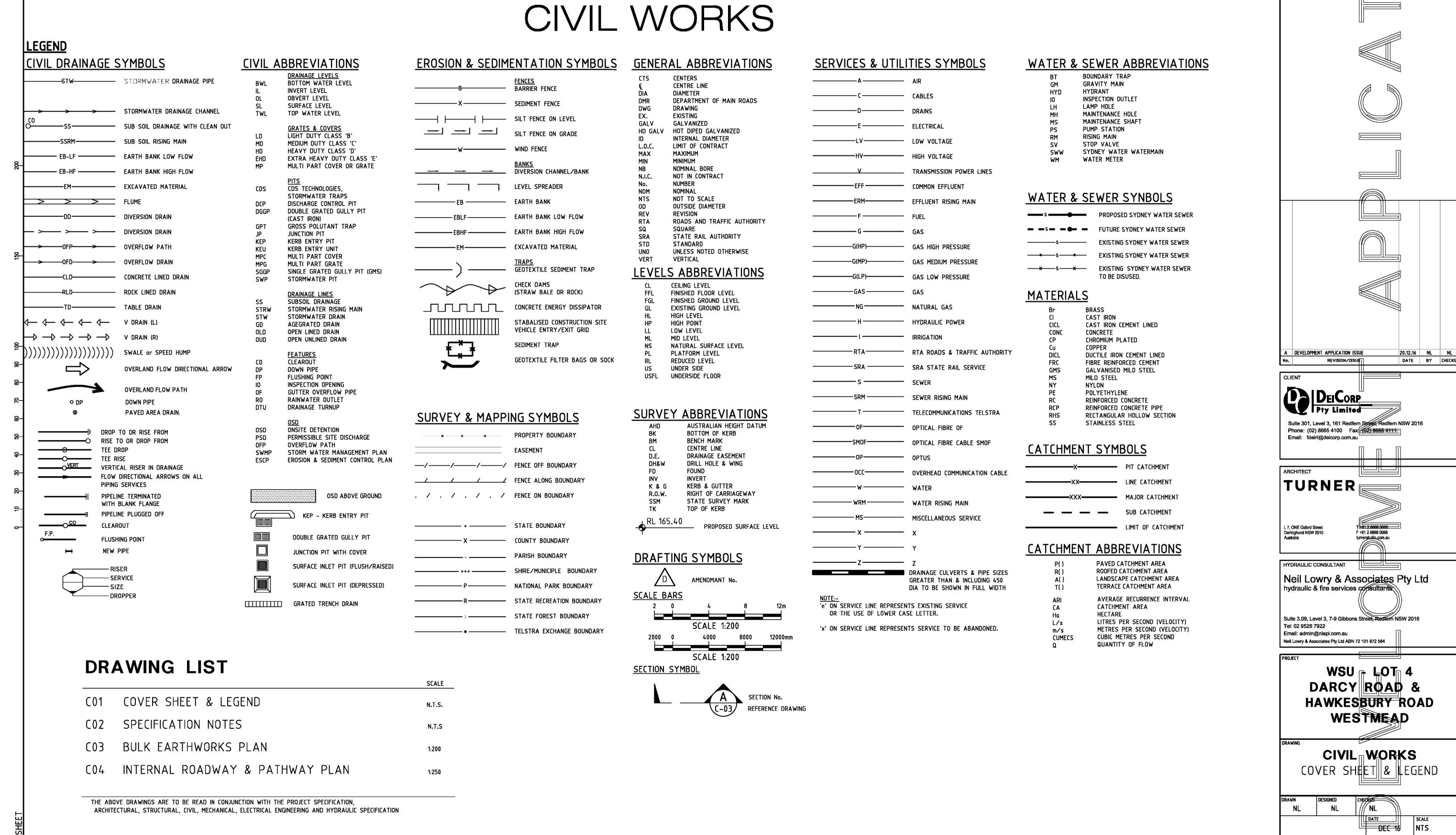




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Client
COMBINED PROJECTS (WESTMEAD) PTY LTD

WSU - LOT 4 DARCY 7 HAWKESBURY ROAD WESTMEAD CIVIL WORKS



DA ISSUE

NOTES

GENERAL

- G1. DESIGN HEREIN HAS BEEN PREPARED BY NEIL LOWRY & ASSOCIATES HYDRAULIC & CIVIL ENGINEERS, SUITE 3.09, 7-9 GIBBONS STREET, REDFERN TEL:- 02 9526 7922, FAX:- (02) 9526 7944
- G2. THE DRAWINGS HEREIN SHALL BE READ AS REQUIRED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS BY TURNER ARCHITECTS PTY LTD Phone: (02) 8668 0000 FAX:- (02) 8668 0088
- G3. ALL DIMENSIONS IN MILLIMETRES UNO. REDUCED LEVELS AND CHAINAGES ARE IN METRES. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS.
- G4. THE PROPOSED WORKS DETAILED HEREIN SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF COUNCIL GENERALLY AS DETAILED HEREUNDER.
- G5. ALL EXISTING SERVICES SHALL BE VERIFIED FOR DEPTH AND HORIZONTAL POSITION BY PHYSICAL MEANS PRIOR TO EXCAVATION. ANY DISCREPANCIES SHALL BE BROUGHT FORTHWITH TO THE PROJECT MANAGER'S ATTENTION.

SUB-SOIL DRAINAGE MATERIALS:

- SS1. PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED POLYVINYL CHLORIDE (PVC) WITH SOLVENT WELDED JOINTS, MIN. 150mm DIAMETER.
- SS2. ALL SUBSOIL DRAINAGE & DETAILS REFER TO STORMWATER & SUBSOIL DRAINAGE DRAWINGS BY N. LOWRY & ASSOCIATES PTY LTD

GEOTECHNICAL REPORT

REFERENCE SHALL BE MADE TO THE GEOTECHNICAL REPORT BY COFFEY GEOSCIENCES Pty Ltd "PROPOSED DEVELOPMENT, STAGE 2 STEEL RIVER INDUSTRIAL DRIVE, MAYFIELD WEST. REPORT No. N09973/02-AB, 9 AUG 2006

CONCRETE WORKS

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE SAA STANDARDS CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION.
- C2. ALL CONCRETE SHALL BE 80mm MOMINAL SLUMP, 20mm MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY ASH, UNLESS OTHERWISE APPROVED.
- ALL CONCRETE WORK IN CONTACT WITH SEWER TO HAVE TYPE SL PORTLAND CEMENT, OTHERWISE TYPE A CEMENT FOR BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF 600 MICROSTRAIN, A MINIMUM CEMENT CONTENT 350kg/m3 AND MAXIMUM WATER:CEMENT RATIO OF 0.40
- C3. STRENGTH GRADE OF CONCRETE SHALL BE : 25 MPa (KERBS, EDGE STRIPS & CONCRETE ENCASEMENT), 4.25 Mpa FLEXUAL STRENGTH FOR RIGID CONCRETE PAVEMENTS AT 80mm SLUMP, 20mm MAXIMUM AGGREGATE SIZE, AND 32 MPa ELSEWHERE.
- C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR APPROVED. GENERALLY FOR HAND PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 6m. FOR MACHINE PLACED KERB & GUTTERGE10. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 12m & GUILLOTINED PRIOR TO CONTINUATION WITH SUBSEQUENT DUMMY GROOVED JOINTS, 25mm IN DEPTH, SHALL BE FORMED EVERY 3m OF GUTTER. JOINTS ARE ALSO REQUIRED AT EACH END OF GUTTER CROSSING AND GULLY PITS. JOINTS SHALL BE SET VERTICAL AND SQUARE TO THE KERB.
- C5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- C6. WELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER.
- C7. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS SGE2. AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY
- C8. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.
- C9. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF SGE4. 5. AS3600.
- C10. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH
- C11. ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET' BY "RAMSET" WITH THE GLASS CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MADE FACTURERS INSTRUCTIONS HILTI HVU ADHESIVE ANCHOR WITH FOIL CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTION. ALL CHEMICAL ANCHORS SHALL BE HOT DIPPED GALVANIZED AND BE MIN M16 DIA. U.N.O.

EXCAVATION BATTERS:

- SGE8. ALL TEMPORARY BATTERS CUT IN CLAY SUBSTRATE SHALL BE 1 HORIZ : 1 VERT. ALL LONG TERM EXPOSED BATTERS CUT IN CLAY SUBSTRATE SHALL BE 2 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN CLAY SUBSTRATE SHALL BE 3 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN ROCK SUBSTRATE
- SGE9. GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 1 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS

SHALL BE NEAR VERTICAL.

GREATER THAN 500 m2

SECTION OF WORK.

- FOR GENERAL FILL OR CUT AREAS OVER THE AREA PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT
- FOR GENERAL FILL AREAS IN CONCENTRATED AREAS ADJACENT TO AND BEHIND THE STRUCTURE AND ADJACENT TO AND BEHIND RETAINING WALLS PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT GREATER THAN 50m². WARREN SMITH & PARTNERS FOR REVIEW

GENERAL EARTHWORKS, SITEWORKS & FILLING:

- SGE1. THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH "REPORT ON GEOTECHNICAL INVESTIGATION BY GEOTECHNIQUE PTY LTD REPORT No. 10280/2-AA DATED 4 JUNE 04 PH 02 4722 2700 FAX: 02 4722 2777
- STRIP ALL TOPSOIL AND UNDERLYING FILL AND STOCKPILE TOPSOIL FOR LATER REUSE FOR LANDSCAPING PURPOSES.
- NEW FILL REQUIRED TO REINSTATE CUT LEVELS TO PROPOSED BENCHING LEVELS SHALL BE SOURCED FROM OTHER PARTS OF THE EXCAVATION AS SELECT FILL OR IMPORTED FILL AS SPECIFIED BELOW IN SGE 4 AND SGE
- SELECT FILL SHALL CONSIST OF LOCALLY DERIVED OR CUT
- IMPORTED FILL SHALL CONSIST OF RIPPED SANDSTONE OR SHALE OR SIMILAR MATERIAL WITH MAXIMUM PARTICLE SIZE NOT GREATER THAN 120mm AND A MOISTURE SGE6. CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
- ALL FILL (COHESIVE SOIL) SHALL BE PLACED IN LAYERS OF 200mm MAXIMUM THICKNESS, COMPACTED BY MACHINE ROLLING TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS THAN 98% STANDARD MAXIMUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
- IN AREAS WHERE HIGH IMPACT ROLLING IS USED TEST FACH FINAL LAYER OF NOT GREATER THAN 300mm TO 400mm TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS THAN 98% STANDARD MAXIMUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

RESTORATION:

- RES1. RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION.
- RES2. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED SURFACES TO PRE-EXISTING CONDITIONS AND COMPACT AS SPECIFIED.
- RES3. RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL STANDARDS

ROAD WORKS, DRIVEWAYS & CARPARKS

- R1. ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE CONDITIONS & PAVEMENT THICKNESS TO BE VERIFIED BY GEOTECHNICAL CONSULTANT AFTER INSPECTION OF PRELIMINARY BOXING.
- R2. ALLOW FOR ANY SUB-GRADE REPLACEMENT WORK TO BE DETERMINED AS REQUIRED BY GEOTECHNICAL CONSULTANT AT THE TIME OF PAVEMENT CONSTRUCTION.
- R3. MINIMUM DRY DENSITY RATIOS (AS 1289 3.4.1-1993) TO BE: BASECOURSE 98% MODIFIED 95% MODIFIED SUB-GRADE 100% STANDARD SUB-GRADE REPLACEMENT100% STANDARD
- R4. PAVEMENT MATERIALS TO COMPLY WITH RTA SPECIFICATION No. 3051 OR SIMILAR AS APPROVED BY GEOTECHNICAL CONSULTANT.
- R5. PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING 250mm THICK BEING BASECOURSE SUB-BASE & SUB-GRADE OVER AN AREA NOT GREATER THAN 500m²
- R6. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.
- A1. THE AS CONSTRUCTED WORKS SHALL BE INSPECTED BY DESIGN CONSULTANT. MINIMUM 48 HOURS NOTICE SHALL APPLY TO ALL INSPECTIONS.
- A2. THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION. OBTAIN EXPRESS (WRITTEN) ADVICE TO PROCEED FROM PROJECT MANAGER PRIOR TO COMMENCEMENT.
- A3. SUBMIT WORK-AS-EXECUTED DRAWINGS IN CIVILCAD OR DXF DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY ALL CONSTRUCTION WORKS SHOWN HEREON.
- A4. CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS ISSUED FOR CONSTRUCTION.

ROAD SIGNS & LINE MARKING

- RS1. ALL SIGNS AND LINEMARKING SHALL BE TO ROADS & TRAFFIC AUTHORITY STANDARDS AND SPECIFICATIONS AND AS.1742, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
- RS2. ALL LINEMARKING SHALL BE AUGMENTED BY RETROREFLECTIVE RAISED PAVEMENT MARKERS (RRPMs) AND ALL SHALL BE TO AS 1742.2 - 1994 AND AS 1742.2 /AMDT 1/1997-10-05
- RS3. ALL ROAD SIGNS AND POSTS SHALL BE TO AS 1742.2 1994 AND AS 1742.2 /AMDT 1/1997-10-05

COUNCIL STANDARDS

LGA 1. THE DRAWINGS HEREIN SHALL BE READ IN CONJUNCTION WITH COUNCIL'S STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.

TRAFFIC NOTE:

- 1. A TRAFFIC CONTROL PLAN IS TO BE PREPARED BY AN ACCREDITED RTA TRAFFIC CONTROLLER AND SUBMITTED TO COUNCIL. THIS TRAFFIC PLAN IS TO BE CERTIFIED BY AND IMPLEMENTED TO THE SATISFACTION OF AN ACCREDITED RTA TRAFFIC CONTROLLER
- 2. ALL TRAFFIC CONTROL WORKS SHALL ONLY BE CARRIED OUT BY

ACCREDITED RTA TRAFFIC CONTROLLERS.

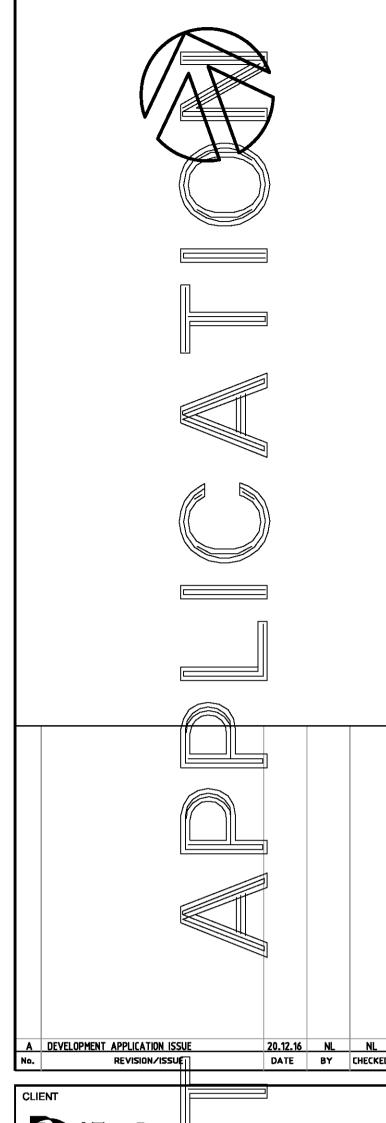
REINFORCED CONCRETE

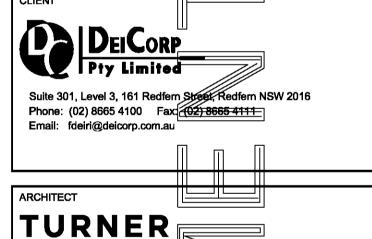
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- 2. ALL CONCRETE SHALL BE 80mm SLUMP, 20mm MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY ASH, UNLESS APPROVED BY THE ENGINEER. ALL CONCRETE TO HAVE TYPE SL PORTLAND CEMENT WITH NO FLY ASH.
- 3. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR APPROVED BY THE ENGINEER.
- 4. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
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- 6. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY
- 7. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- 8. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH DRAWINGS
- 9. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UNO.
- 10. THE CONCRETE STRENGTH SHALL COMPLY WITH THE FOLLOWING:

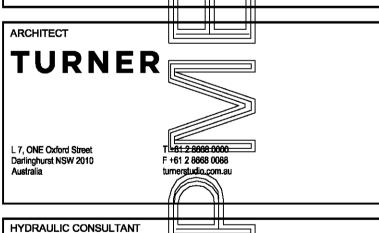
ELEMENT	MIN CEMENT CONTENT (kg/m)	SLUMP (mm)	NOM MAX AGGREGATE SIZE (mm)	GRADE DESIGNATION (Mpa)
REINFORCED CONCRETE	360	80	20	SL32
MASS CONCRETE	260	80	20	N20
PILES	360	80	20	N40

- 11. NO PENETRATIONS, RECESSES OR CHASES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS
- 12. ALL EDGES TO HAVE 20mm CHAMFERS, WHERE VISIBLE IN THE FINISHED WORK.

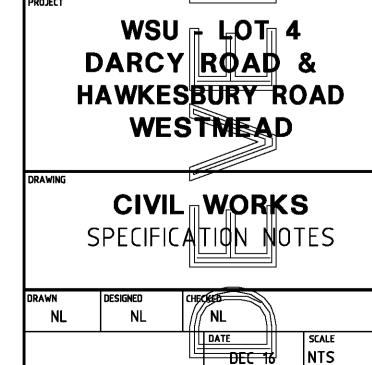
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C02

DA ISSUE

0789

