Attachment 10

Revised Landscape Design Report

Aspect Studios

ST LEONARDS SOUTH East Quarter Landscape Design Report 07.10.2022

RevD



Document Information

Project Number:	S18065
Project Name:	St Leonards East Quarter
File Path:	C:\Users\SifeiLiu\OneDrive-ASPECT Studios\SYD20112_Eastern Quarter St Leonards\05_PRODUCTION\01_Phase 01 Concept DA (Eastern Quarter)\03_InDesign\SYD20112_Landscape DA Report_RevD_ACTIVE
Document Number:	S18065_Landscape Design Concept DA Report (East Quarter)
Document Title:	Concept DA Landscape Design Report
Revision Date Issued:	Refer Document History & Status below

Document History & Status

Date	Description	Prepared By	Reviewed By	Approved By
22.04.27	Draft for Review	SL		
22.05.06	Issue for DA	SL	AW	AW
22.05.09	Issue for DA	SL	AW	AW
22.10.05	Issue for DA	SL	AW	AW
22.10.07	Issue for DA	SL	AW	AW
	22.04.27 22.05.06 22.05.09 22.10.05	22.04.27Draft for Review22.05.06Issue for DA22.05.09Issue for DA22.10.05Issue for DA	22.04.27Draft for ReviewSL22.05.06Issue for DASL22.05.09Issue for DASL22.10.05Issue for DASL	22.04.27Draft for ReviewSL22.05.06Issue for DASL22.05.09Issue for DASL22.10.05Issue for DASL

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Introduction

The proposal includes high quality public domain and landscape areas in the form of a central connecting green spine which extends through the centre of the site to realise Council's vision for the area and to retain the leafy character of the neighbourhood, and roof top gardens. Landscaping is proposed to comprise approximately 50% of the site area with 35% deep soil zone. Sufficient soil depth is provided above the basement in the green spine area to ensure sustainable growth of proposed planting.

The landscape design reinforces existing strategic objectives of NSW government policy and Council visions for the St Leonards South precinct including the principles and design vision of the St Leonards South Landscape Master Plan and Lane Cove DCP. The site will provide a level of comfort, familiarity for local residents, and a place that will be distinctive and an attractive asset to the development and local community.

The project draws inspiration from this distinct landscape and land forms of the Sydney landscape and specifically, the unique micro-climates of the St Leonards and Crows Nest region. The existing landscape of the St Leonards South areas shifts from an open woodland landscape typology at its ridge (Pacific Highway) and transitions into a wet, gully landscape (Smoothey Park/Berrys Creek). By reflecting this transition of landscape, we create an inspiring and contextually rich landscape character to the St Leonards South residential development.

A distinct palette and arrangement of materials and planting within the Green Spine reflect the changing landscape experiences, moving between open woodland spaces with large trees and open grass areas, to a more intimate, dense gully environment with steep escarpments and dense understorey planting

The proposed plan provides for a 9m wide pedestrian link through the site, which will provide a pedestrian connection from Berry Road to Holdsworth Avenue and will connect to pocket parks planned for the southern end of Holdsworth Avenue and Berry Road. Ramped access is provided to ensure the connection is accessible by all.



Aerial Image, St Leonards South Landscape Master Plan (prepared by Oculus, 2017)

Design Principles To deliver an example of sustainable development in St Leonards ...



Key Objectives A biophilic development...



Deliver a biophilic development for St Leonards



Preserve + Enhance Existing Vegetation



Deliver development excellence + public benefit



Create wonderful community spaces for people to live, work + play







Naturally Capture and Treat Rainwater

Expand and connect to public spaces beyond

Solar Analysis



Design Intent

The project draws inspiration from this distinct landscape and land forms of the Sydney landscape and specifically, the unique micro-climates of the St Leonards and Crows Nest region.

The existing landscape of the St Leonards South areas shifts from an open woodland at its ridge (Pacific Highway) and transitions into a wet, gully landscape (Smoothey Park/ Berrys Creek). By reflecting this transition of landscape, we create an inspiring and contextually rich landscape character to the St Leonards South residential development.

As the land falls from the ridge top (St Leonards town centre) towards the gully (Berrys Creek), the geologly changes from Wianamatta shale to Hawkesbury sandstone. These different geologies inform a change in micro-climates and vegetation communities that is reflected in the landscape planting design (see Indicative Planting Palette).

A distinct palette and arrangement of materials and planting within the Green Spine reflect the changing landscape experiences, moving between open woodland spaces with large trees and open grass areas, to a more intimate, dense gully environment with steep escarpments and dense understorey planting.





Gully

- Intimate spaces
- Dense groundcover layer
- · Warmer tones (Hawkesbury Sandstone)



Open Woodland

- Open spaces providing distant views
- Dense canopy layer
- Deep grey tones (Wianamatta Shale)

Expand + connect to public spaces beyond



" Green + Cool"

Programs & Activities







Landscape Masterplan

Green Spine South





BBQ/ BAR TABLES & SEATING



COMMUNAL LAWN SPACE/ OUTDOOR WORK AREA



GREENARY ADJACENT TO STAIRS

LEGEND

- 01. Community lounge (with shelter, picnic setting)
- 02. Kids play space 03. WSUD rain garden
- 04. Stepping stone to private courtyard 05. Swimming pool 06. Raised garden bed with seating 07. Terraced turf

- 08. Egress exit 09. Lawn space (spread out and kick-about) 10. Bike racks



RAIN GARDEN

Landscape Masterplan

Green Spine North



LEGEND

- 11. Egress exit



CHILDREN'S PLAY



COMMUNITY OPEN SPACE

LAWN SPACE

01. Community lounge (with shelter, picnic setting) 02. Kids play space 02. Rus play space
03. WSUD rain garden
04. Lawn space (spread out and kick-about)
05. Terraced garden
06. Raised garden bed with seating
07. Platform lift

08. Outdoor working space 09. Ramped walkway 10. Terraced turf



BBQ & PICNIC AREA

Landscape Masterplan

Community Pool



LEGEND

- 01. Kids paddle pool 02. Water lounge 03. Stepping stone crossing 04. Water cascade
- 05. Stairs
- 06. Deck lounge
- 07. Pool fence 08. Entry/ Exit







Communal Open Space & Roof Garden





Note: no green roof or private roof garden proposed in the project

Security and Controlled access





PRIVATE COURTYARD ENTRY



Levels & Access





NOTE:

Utilise the site topography, and landform in the creation of endemic vegetation communities

Finished levels are in accordance with Landscape Masterplan where possible. For those instances where the levels do not match the Landscape Masterplan is due to steep topography and level constraints.

Proposed Tree Planting & Deep Soil Zone

Note: REFER TO LANDSCAPE DRAWING SET FOR ENLARGED PLAN



PROPOSED TREES I LARGE TREE: 25

PROPOSED TREES I MEDIUM TREE: 55

PROPOSED TREES I SMALL TREE: 53

TOTAL NO. PROPOSED TREES: 133

SMALL TREE %: 40%

MEDIUM TO LARGE TREE: 60%

TREE REPLACEMENT RATIO: 1:1.3

DEEP SOIL/ NON BASEMENT ZONE ALONG GREEN SPINE % : 52%

DEEP SOIL/ NON BASEMENT ZONE OVERALL SITE % : 23%

LANDSCAPE ON SLAB

18 St Leonards |East Quarter | Landscape DA Report

MASTERPLAN PROPOSAL MIN % OF SITE TO BE LANDSCAPE AREA (IE. DEEP 23% 7% (ADG) V SOIL MIN % OF SOFTSCAPE AT ~ 60% 61% GREEN SPINE MIN % OF AREA FOR MATURE CANOPY TREE COVER OF 63% ~ 50% GREEN SPINE

TREE PLANTING SOIL VOLUME/DEPTH: MASTERPLAN /DCP

The following are recommended as minimum standards for a range of plant sizes to be grown on structures:

	Plant size	Minimum standards	
A	Large trees (canopy diameter of up to 16m at maturity)	 minimum soil volume 150m³ minimum soil depth 1.3m minimum soil area 10m x 10m area or equivalent 	\bigotimes
В	Medium trees (8m canopy diameter at maturity)	 minimum soil volume 35m³ minimum soil depth 1m approximate soil area 6m x 6m or equivalent 	\oslash
С	Small trees (4m canopy diameter at maturity)	 minimum soil volume 9m³ minimum soil depth 800mm approximate soil area 3.5m x 3.5m or equivalent 	\bigotimes



Soil Volume Diagram



Note: REFER TO LANDSCAPE DRAWING SET FOR ENLARGED PLAN

LEGEND

SOIL VOLUME



Proposed Tree Planting



PROPOSED TREE PLANTING INDICATIVE PALETTE

Consideration for using existing feature tree species for future tree replacement species selection



12-Syncarnia dlomulifer

67-Svzvaium luehma



77 - Quercus robur mimosifolia

Indicative native tree species from recommended species selection in Landscape Masterplan



Angophora costata

Eucalyptus haemastoma

102-Glochidion ferdinandi



82 - Corymbia maculata

84&85 - Araucaria columnaris





Tristaniopsis laurina

Planting Pallette

Note: REFER TO LANDSCAPE DRAWING SET FOR SCHEDULE PLANTING ZONE PLAN

TREES





















Eucalyptus pilularis













Fucalyntus naniculata

Eucalyptus scoparia

dambar stvraciflu

llmus parvifol

SHRUBS & GROUNDCOVERS









































Syzygium australe 'Elite'













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Amenity & Privacy Use landscape to create privacy



Community amenity



Privacy terrace

Amenity & Privacy - Interface with River Road Note: REFER TO LANDSCAPE DRAWING SET FOR ADDITIONAL SECTIONS TO SCALE









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KEY PLAN



Amenity & Privacy - Interface with Area 16 & 17 Note: REFER TO LANDSCAPE DRAWING SET FOR ADDITIONAL SECTIONS TO SCALE

PROPERTY BOUNDARY SETBACK LINE RL 68.45 ! RL 67.60 RL 67.15 RL 67.6 67. 385(Terraced landscape to soften the large level change. Creating a lush backdrop to the LOADING DOCK open lawn space. Stair access provided to **BASEMENT MEZZANINE** RAMP Area 16 & 17 CARPARK RAMP **BASEMENT 01** CARPARK RAMP

KEY PLAN





Amenity & Privacy - Interface with Pocket Parks

Note: REFER TO LANDSCAPE DRAWING SET FOR ADDITIONAL SECTIONS TO SCALE





NOTE: Section of Pocket Park is indicative, final design by others T.B.C. Levels and design proposed within property boundry to meet existing levels (EX xx.xx) along the boundry line

EX 59.17

EX 58.77

Amenity & Privacy - Interface with Berry Road & Holdsworth Ave

Note: REFER TO LANDSCAPE DRAWING SET FOR ADDITIONAL SECTIONS TO SCALE





KEY PLAN



Amenity & Privacy - Interface with Through Site Link Note: REFER TO LANDSCAPE DRAWING SET FOR ADDITIONAL SECTIONS TO SCALE









В

Sustainability

Regional Connected Green Spine

- Provide connected urban habitat for local flora and fauna - Reduce the urban heat island effect with layers of planting: groundcover, shrubs and mature tree canopies





WSUD - Water Sensitive Urban Design

Collect rainwater for potentail water reuse for irrigation.







Material Pallette

The proposed material palette references the St Leonards South Landscape Master Plan. Materials have been selected based on the following principles:

- Low VOC, low embodied energy
- Locally sourced
- High quality, robust and easily maintained
- Where suitable, introduce permeable surfaces to support better water mitigation and environmental outcome
- Consistent between streetscape and private domain for continuity between development sites
- Reflect the local context

East Quarter



Hawkesbury Sandstone

High quality stone paving unit, with texture variation

Sandstone flamed wall face



Roof Terrace





Permeable Surfaces











Natural form stone for informal paths/garden bed

Timber

Porous Paver - Hydrostone or similiar

Gravel & stepping stones

Mulch softfall





Planting

Lighting Plan

NOTE: This plan demonstrates the desired look & feel from landscape perspective only. Detailed design to be provided by lighting consultant.



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Response to Masterplan

Landscape design follows the guidelines listed in part 3 and part 4 of the Landscape Master Plan. A compliance matrix has been summarized below.

MASTERPLAN GREE	N SP	INE		
FACILITIES MATRIX	Y/N	ATTRIBUTES & CHARACTER	Y/N	COMMENT
- SHELTER/SHADE STRUCTURE	\bigcirc	MAX 40% OF AREA TO BE HARD PAVED (INCLUDING SOFTFALL)	\bigcirc	
- PATHWAYS	\bigcirc	MIN 60% OF AREA TO BE SOFT WITH MAX 40% OF THIS LAWN & 60% PLANTED	\bigcirc	61% softscape area
-LIGHTING		SEPARATE PLAY AREAS FOR TODDLERS (AGES 6 MONTHS - 3 YEARS) AND YOUNG CHILDREN (AGES 3-8 YEARS+)	\bigcirc	Both nature and traditional play proposed to suit different age groups
-IRRIGATION		play areas to provide range of play equipment, min 70% shade cover and seating		Shading from tree canopy and structure provided
- INFORMAL PLAY	\bigcirc	play areas to be located and designed to enable good surveillance	\bigcirc	
- BBQS	\bigcirc	provision for adult & young person recreation eg. outdoor table tennis table, boules court, informal kick-about area	\bigcirc	
- PICNIC TABLES	\bigcirc	min 1no. flexible lawn area (min 150m2) centrally located with direct access from apartment lobbies, main north-south pathways, play and picnic/bbq areas	\bigcirc	
- SEATING		a picnic/bbq area including min 1no. dual hotplate built-in BBQ with sink, min 2no. picnic table settings, bench seating, shade in the form of canopy trees or shde structure, external GPO	\bigcirc	
- LITTER BINS	\bigcirc	min 2no. quiet outdoor seating areas with shaded bench seating located away from play and picnic/bbq area	\bigcirc	
- OPEN LAWN	\bigcirc	provision for small scale public art, interpretation and/or water features	\bigcirc	
-SHADE TREES		accessible (max 1:20 grade) where possible	\bigcirc	A platform lift is introduced to allow universal access for all to key amenities, where ramp was not an option due to space and level constrains.
- FEATURE PLANTING		level with adjacent green link to east or west	\bigcirc	
- INFORMAL KICK ABOUT		major changes in level generally located on north/south site boundaries	\bigcirc	
- CHILDREN'S PLAY		communal open space areas with outdoor gathering, seating and play areas	\bigcirc	
		existing trees retained (tree retention to be agreed with Council pre-DA)	>	Additional trees are removed according to the arborist report, however, the proposed design allows a replacement ratio greater than 1:1.3
		mature canopy tree cover (existing + proposed) is to be minimm 50% of area of Green Spine	\bigcirc	63% mature canopy tree cover achieved
		new canopy trees to include min 50% large sized trees (12m high +) or medium sized trees (8-12m high) and max 50% small trees (up to 8m high)	\bigcirc	35.8% small trees, 64.2% large and medium sized trees



Response to Masterplan

MASTERPLAN GREEN SPINE						
FACILITIES MATRIX	Y/N	ATTRIBUTES & CHARACTER	Y/N	COMMENT		
		basement car parks are confined to the building footprint. Intrusion into Green Spine is only permitted if 2 levels of basement parking under the building is provided. If located under Green Spines, basement car parking is to be located so as to retain existing trees and to provide min 1m soil depth over entire area of basement	×	Min 1m soil depth over the entire basement area is not achievable above the loading dock zone, due to the constraints of top slab height requirement, and to meet adepqute surface levels among building entries. Large portion of the loading dock affected zone has been thoughtfully designed for community gather and play space, thus applied with hardscape surfaces. Raised and terraced gardens are introduce to ensure a minim 350mm for lawn, 600mm for shrubs and groundcover, 9000mm for small trees, 1,500mm for medium trees, and 3,000mm for large trees. Refer to architecture drawings and report for further details of basement design. Refer to landscape drawing set for soil volum diagram.		
		adequate pedestrian lighting	\bigcirc	Landscape design has demonstrated the desired look and feel for lighting, and has allowed space within the landscape for lighting installations. A more detailed design to be provided by lighting consultant to ensure adequate lighting standard are archived.		

MASTERPLAN PEDESTRIAN LINK					
FACILITIES MATRIX	Y/N	ATTRIBUTES & CHARACTER	Y/N		
- PATHWAYS	\bigcirc	SHARED PEDESTRIAN/CYCLE LINKS			
-LIGHTING		ACCESSIBLE (MAX 1:20 GRADE) WHERE POSSIBLE	S	Due to space and existing site level constraints, a 1:14 ramped walkway is introduced towards Holdsworth Ave to ensure the through site link is fully accessible.	
-SIGNAGE		MIN 2.5M WIDE SHARED PATHWAY	\bigcirc		
- SHADE TREES	\bigcirc	SHADE TREES AND FEATURE PLANTING ALONG EDGES	\bigcirc		
		ADEQUATE PEDESTRIAN LIGHTING		Landscape design has demonstrated the desired look and feel for lighting, and has allowed space within the landscape for lighting installations. A more detailed design to be provided by lighting consultant to ensure adequate lighting standard are archived.	





Response to Masterplan

MASTERPLAN ROOF GARDENS						
FACILITIES MATRIX	Y/N	ATTRIBUTES & CHARACTER	Y/N	COMMENT		
- SHELTER/SHADE STRUCTURE	N/A	BE ACCESSIBLE TO ALL RESIDENTS VIA LIFTS AND STAIRS				
- PATHWAYS		BE OF THE REQUIRED MINIMUM SIZE		Roof top garden is connected with the large communal open space along the Green Spine		
-LIGHTING		HAVE ADEQUATE SOLAR ACCESS AND SHADE				
-IRRIGATION	\bigcirc	INCLUDE A MIX OF PAVED/DECKED/TURFED AREAS FOR USABILITY AND PLANTED AREAS FOR AMENITY	\bigcirc			
- INFORMAL PLAY	N/A	PROVIDE A RANGE OF FACILITIES/AMENITIES SUCH AS LAWN AREAS, BBQS, POTABLE WATER SUPPLY & SINK, PICNIC TABLES, SEATS, LIGHTING, COMMUNITY GARDEN BEDS				
- BBQS	N/A					
- PICNIC TABLES	N/A					
- SEATING	\bigcirc					
- LITTER BINS						
- OPEN LAWN	N/A					
-SHADE TREES	\bigcirc					

MASTERPLAN PRIVATE COURTYARDS						
FACILITIES MATRIX	Y/N	ATTRIBUTES & CHARACTER	Y/N			
		CLEARLY DEFINED AS PRIVATE OPEN SPACE	\bigcirc			
		DESIGNED TO ENSURE APPROPRIATE PRIVACY WHILST ALSO ALLOWING ADEQUATE PASSIVE SURVEILLANCE				
		OPEN OUT ONTO COMMUNAL OPEN SPACE OR WALKWAYS WHEREVER POSSIBLE				
		BE OF THE REQUIRED MINIMUM SIZE AND HAVE ADEQUATE SOLAR ACCESS	\bigcirc	Refer to architecture proposal for details		
		INCLUDE A MIX OF PAVED AREAS FOR USABILITY AND PLANTED AREAS FOR AMENITY	\bigcirc			



The garden itself defined by the "Roof Top" alocation, has limited space to accomdate all additional amenities (e.g BBQ, play, open lawn etc.), however, the roof top garden space whithin the design is seamlessly connected with the large central communal open space, and will be utilized as a lush retreat extention along the Green Spine.



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