

# 16 CHAPMAN STREET, WERRINGTON NSW

Open Spaces DA Package

Prepared for



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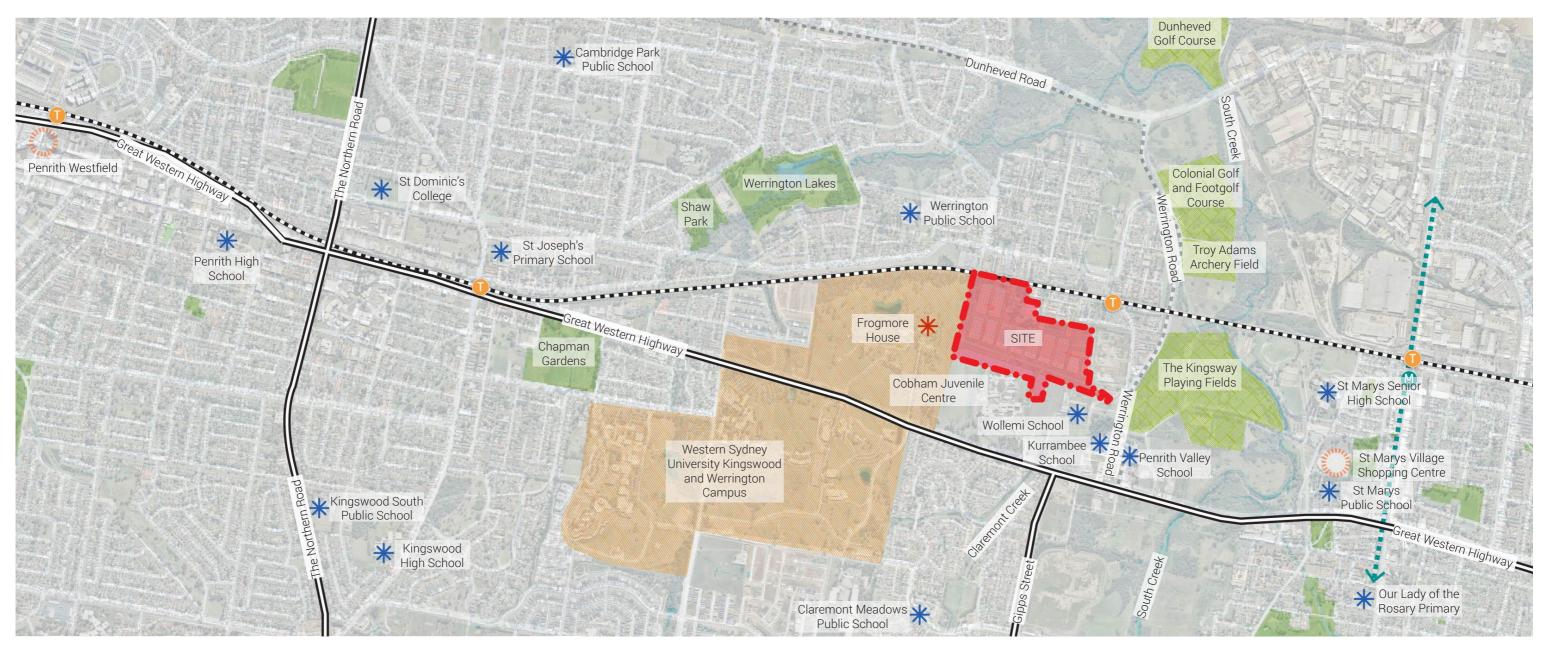
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Report title	Open Spaces DA Package
Document number	2519036
Prepared for	Lendlease
Authors	Georgia McDonald
Revision number	03
Revision issue date	14th February 2020
Approved	Paul Kohn
Reason for revision	N/A

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LEGEND

Train line

Train Station

Major Roads

Schools



Major Shopping Centre/Villages

**UWS Werrington Campus** 



Approximate location of Future Metro Line North-South to Airport





Approximate location of future Metro Stations



Significant sites



Surrounding public open space



Surrounding active recreational facilities



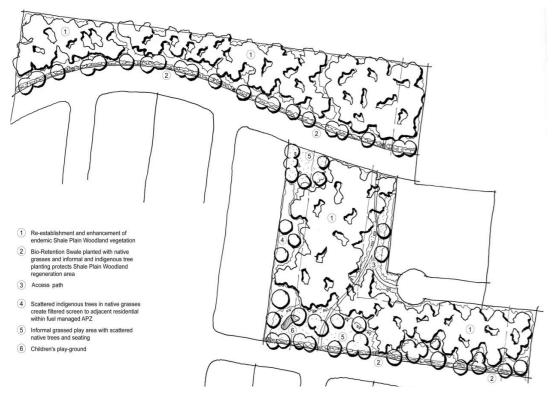
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Site Context Plan

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1. Western Local Park Concept Plan (Figure E 12.18a, Penrith DCP 2014)

2. Eastern Local Park Concept Plan (Figure E 12.18b, Penrith DCP 2014)

The proposed development site is known as 16 Chapman Street Werrington and is located within the suburb of Werrington approximately 5km east of the Penrith Town Centre. The suburbs surrounding Werrington are; Caddens to the south, St Marys to the east, Cambridge Park to the north and Kingswood to the West. Major rail and road infrastructure service the site, with the Sydney Rail Werrington Station located approximately 200m to the north west and the Great Western Highway located approximately 500m to the south of the site. Bordering the site are the Western Sydney University Werrington Campus to the west and Cobham Juvenile Justice Centre to the south with Werrington Rd located to the east. Existing residential lots and environmentally sensitive Cumberland Plain Woodlands form the northern boundary of the site.

The Lendlease site covers an area of approximately 28ha and slopes predominantly towards the north east corner. It is mainly characterised by disturbed, remnant groups of Cumberland Shale Plains Woodland and disused agricultural land. The shale plains woodland is currently identified in the Vegetation Management Plan as a rare and significant ecological community and habitat for native species of fauna. Access to the site is from Chapman and Walker Streets with evidence of informal walking/vehicular tracks.

Place Design Group were commissioned by Lendlease to undertake a landscape site appraisal and development of a landscape master plan for DA purposes of the site. The proposed development will contain a mix of 1 - 2 storey residential dwellings and a small portion of apartments adjacent to the eastern open space and in closer proximity to the railway station. In accordance with the Penrith City Council DCP two environmental reserves and a drainage reserve were proposed as part of the WELL Precinct's South Werrington Urban Village site wide masterplan. These reserves will provide opportunities for the rehabilitation of the Cumberland Shale Plains Woodland flora, provide habitat sanctuaries for native fauna and public/recreational facilities for the wider community.

The E2 listed reserve to the north west of the site will be an area predominantly aimed at rehabilitating the Cumberland Shale Plains Woodland. No formal pedestrian access into the reserve is proposed.

The Central Reserve will be the main community open space facility will be nestled in and around the conservation zone proposed within the VMP. Either side of the designated conservation lands will sit an open lawn/ BBQ area, fitness station and half basketball court for active recreational uses. To the south west of the site a multi-age children's playground is proposed, nestled in amongst existing trees. To the north of the playground and separated by the conservation zone is a children's learn to ride track and small open space area. All facilities are linked via an accessible network of shared paths providing excellent circulation through the park and towards the train station, whilst also limiting the impact on existing trees and vegetation. The central reserve also requires the provision of a detention basin and bio-filtration zone to mitigate the impact of stormwater runoff through the site. The basin has been sensitively integrated within the parklands to reduce both its visual impact and disturbance of the surrounding native vegetation. The large open space of the basin doubles as passive open space amenity for use by residents and visitors.

The Eastern Reserve's primary function that of a detention basin to assist with the mitigation of stormwater runoff through the site. Proposed along the perimeter of the basin are a series of small shelters with picnic tables and small open space areas located along a loop path. Structured plantings around the top of the basins provide users with plantings that create visual interest and soften the overall expanse of the basin. Both able and disabled access is proposed to the base of the basin to access the large open space which can be utilised for either passive or unstructured active recreation.

Trees proposed for the open spaces will be predominately native and endemic species with a combination of ornamental and deciduous species. Deciduous species will be selected for colour change and visual interest at different times throughout the year. Evergreen species will be placed throughout the parks and basins providing a green tree canopy.

Place Design Group has worked with the client and all consultants to date to implement a detailed landscape open space concept plans that respond to the needs of future residents and visitors while adhering to Council's open space recommendations for the site and where permissible.

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#### 1. Eastern Basin

- Large informal, grassed basin framed by planted embankments to the north-west and south.
- Continuous retaining wall to top of the west, north and east embankments with planted beds to soften internal and external embankments
- Scattered indigenous trees as screen planting to adjacent future residential development.\*
- Continuous access path around basin.\* (2.5m and 1.5m verge footpath)
- Small gathering area along the western boundary with shelter, picnic table and seating.
- Bio-retention area planted with sedges and rushes.
- Entry statement to Walker St frontage utilising the blade walls including low feature planting.
- Accessible 1:20 ramp down to basin to turfed passive zone.
- Gross Pollutant Trap with vehicular access from road.
- Native trees within basin including water tolerant species -Eucalyptus Tereticornis, Eucalyptus Moluccana and melaleuca styphelioides.
- Maintenance Access to basin.
- Apartment residents access path

#### 2. Central Reserve

- Additional/supplement plantings for the re-establishment and enhancement of endemic Shale Plain Woodland vegetation.\*
- Stormwater detention and bio-retention basins.
- Access path through site.\* (2.5m)
- Scattered indigenous trees in native grasses create filtered screen to adjacent residential with fuel managed APZ.\*
- Informal grassed play area with scattered local trees.\*
- Children's playground\* including climbing structures, swings, slides and sensory play elements.
- Large sheltered picnic area.
- Multi-play area including half basketball court, table tennis and fitness station.
- Raised platforms and turfed mounds for social gathering.
- 'Brooklands Speedway' Children's learn to ride bicycle circuit
- Picnic areas.
- Residents access path.
- Maintenance access to basin.
- Rural Fire Service vehicle access path outside the conservation area
- Low grass planting to RFS maintain access path, within fuel managed 16m APZ zone.

#### 3. VMP Area for Protection and Rehabilitation

#### 4. E2 Zone for Protection and Rehabilitation

\*Listed items within Penrith DCP 2014, pg. 67



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Site Concept Plan

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Scale 1:750 @ A3

#### **LEGEND**

- Main shared access path through site (2.5m)
- Open space entry points with feature paving
- Of thildren's learn to ride bicycle loop 'Brooklands Speedway' interpretation, mounding & open space
- Fenced children's play-space (1-10 years)
- Central open lawn for informal active play or passive use
- Active multi-sports zone with basketball half-court and fitness station
- Sandstone log turf terraces/seating walls
- (18) Key path junction point with feature paving and basin maintenance access track
- Large park shelter with 2 x picnic tables & BBQ
- Small park shelter with 1 x picnic tables
- Concrete seating with mounding to active zone
- Native grass mass planting buffer zone to perimeter of the conservation lands
- Detention basin open lawn area
- Bio filtration zone
- 4m wide Reinforced turf maintenance access track into basin.
- 1:10 slope
- 4m wide Concrete maintenance access track into bio-filtration basin.
- Vegetated 1:3 embankments to reduce impact of basin walling and to sympathetically connect to conservation zone
- 18 CPW Conservation zone

14

- 19 CPW Conservation zone post & wire fence (1m high)
- 1.5m Residents access path to future lots fronting parklands
- Future RFS staging area for access to APZ areas and conservation zones
  - Weir between bio-filtration basin and lower detention basin
- Sandstone Log Retaining Wall along conservation zone



Central Reserve Open Space Concept Plan

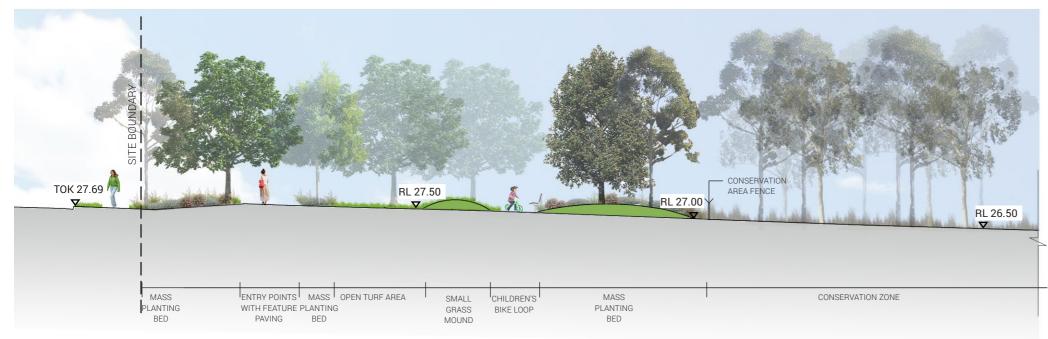




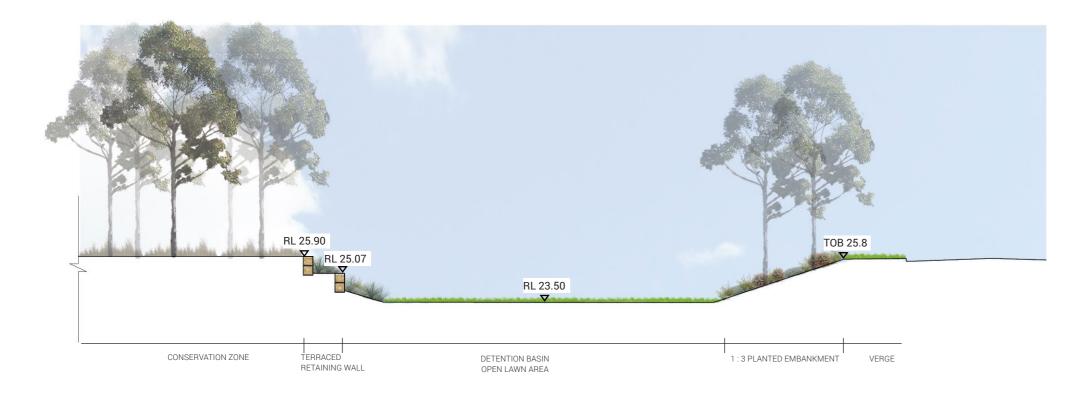
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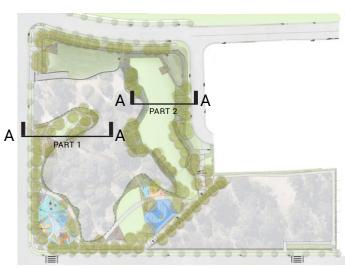


SECTION AA - PART 1



SECTION AA - PART 2

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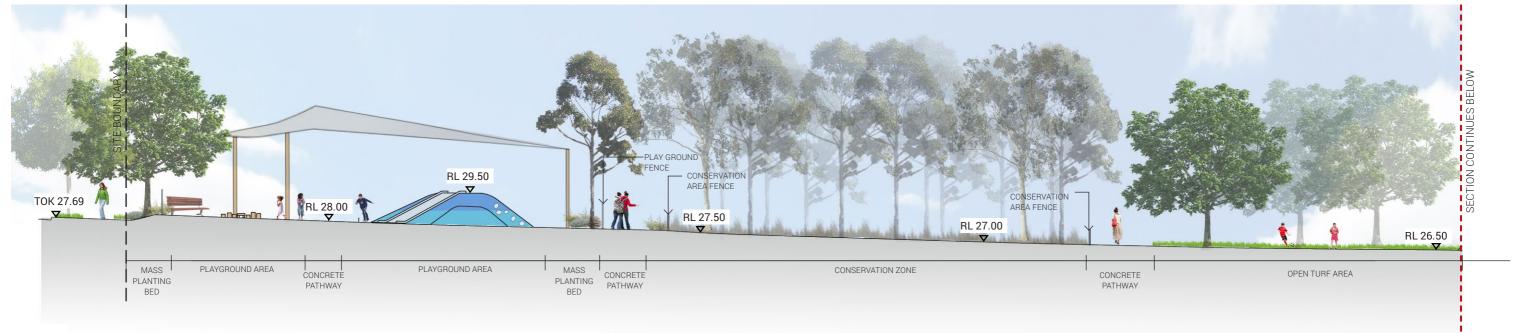
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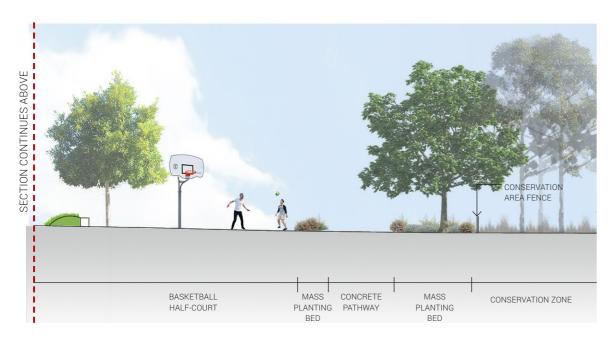
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Central Reserve - Sections

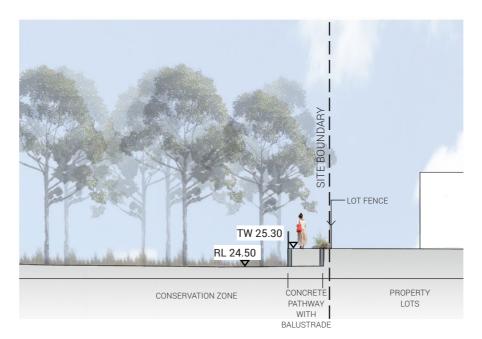
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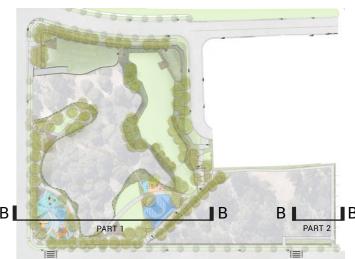
**SECTION BB - PART 1** 



SECTION BB - PART 1 CONTINUED



SECTION BB - PART 2



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Central Reserve - Sections

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SECTION CC - PART 1





SECTION CC - PART 1 CONTINUED

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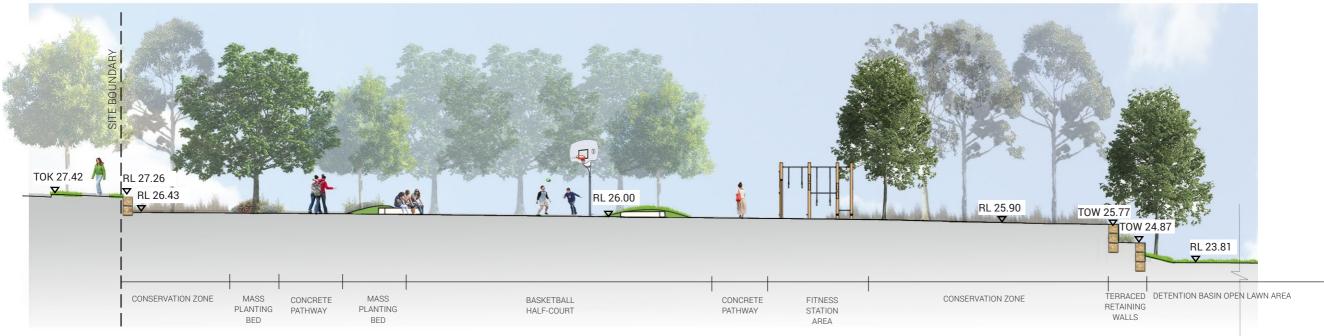
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SECTION CC - PART 2

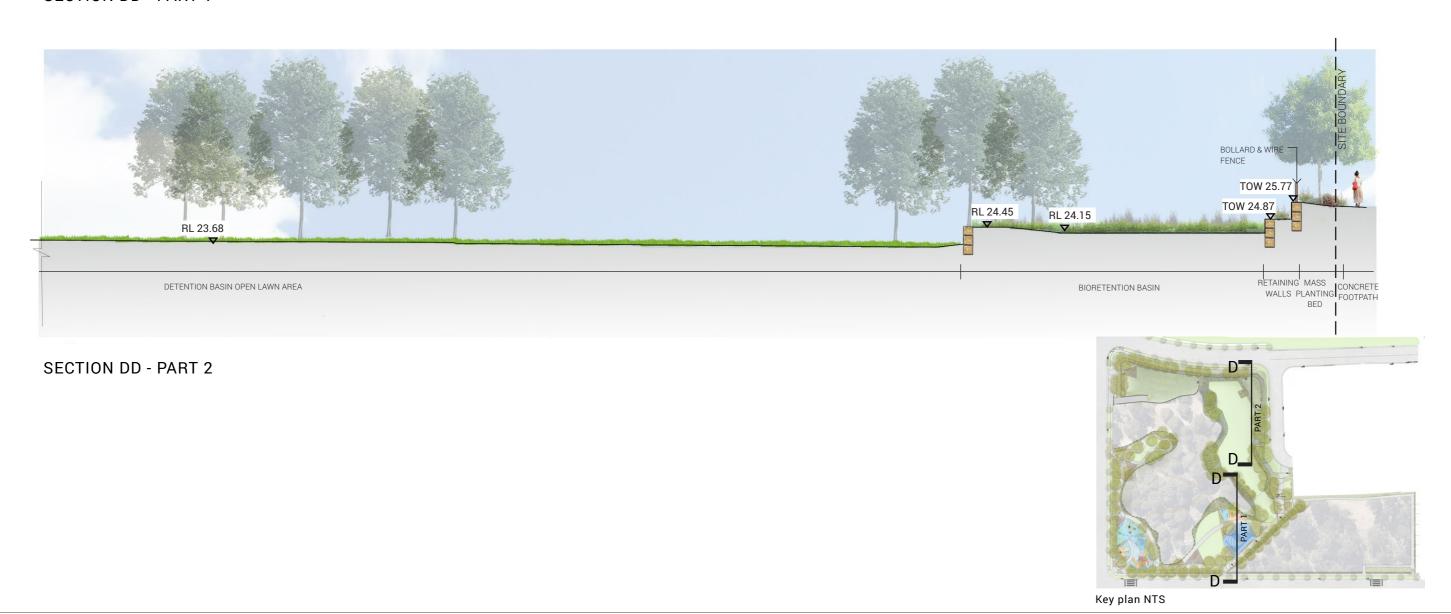


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SECTION DD - PART 1



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#### ACTIVE ZONES FEATURE PAVING











**BBQ AND PICNICKING** 

INTERPRETATION -'BROOKLANDS SPEEDWAY' CHILDREN'S LEARN TO RIDE BICYCLE CIRCUIT











INTERPRETATION - GROVES/GRIDS

OPEN TURF AREA

SHELTERED PICNIC AREAS

TERRACING











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#### **LEGEND**

- Playground palisade safety fence
- 02 Playground entry gates
- 3 Small Shelter with picnic setting
- (Corocord) (Explorer Dome' Multi-play equipment (Corocord)
- Central directional path
- Bench seating to perimeter garden beds
- Triple swing set with birds nest, normal and toddlers swing
- n-ground Trampoline area (Moduplay)
- 2m high Rubber soft fall mound with climbing ropes, rock mounds and double slide (Corocord/Kompan)
- Aeroplane themed equipment (Proludic)
- Timber balance beams and stepper logs
- Granulated rubber soft-fall with interpretive propeller pattern reflecting the sites previous use for joy flights
- External 2.5m shared path
- 14 Street verge and footpath
- 15 Playground screen planting to street
- 16 Conservation area
- Native grasses planting to buffer the conservation area with steel post & wire protection fence
- Possible location for bush track access through the conservation lands to other key areas of the park
- Shade sails over playground in line with Councils shade smart policy

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Play Equipment Schedule			
DESCRIPTION	DIMENSIONS	SPECIFICATION	IMAGE
Plane	H: 920mm L: 2140mm W: 730	Description: Stainless Steel Star Picket Fence Product Number: City - J2603 Max free fall height: 0.6m Supplier: Proludic	
Swings	H: 900mm	Description:2 bay portal swing 2.5m with Birds nest rope swing Product Number: KSW92011 Finish: Powdercoated galvanised steel pipe Fixing: Sub-surface fixed Supplier: Kompan	
Explorer Dome	L: Varies W: 500mm H: Av 0.5m high	Description: Multiplay piece Product Number: COR86300 Supplier: Kompan	
Embankment Slide	<b>W</b> : 2000mm <b>H</b> : 2000mm	Description: Stainless Steel Slide Product Number: CCC 712001-20300 Supplier: Kompan	
Custom Mountaineers Rope	H: 2000mm	Description: Mountaineers Climbing Rope Product Number: COROCORD16-2050-2C1 Supplier: Kompan	Transaction of the second
Softfall climbing aids	<b>W</b> : 400mm <b>H</b> : 400mm	Description: Softfall lumps on mound	
In-ground Trampoline	<b>D:</b> 1750mm	Description: Round model in-ground trampoline Product Number: Z-1310 - 02 Supplier: Moduplay	
Timber balancing beams and steppers	Dimensions vary	<b>Description:</b> Nature play Timber balancing beams and steppers <b>Supplier:</b> Timber Creations	



# **PLAY ELEMENT**

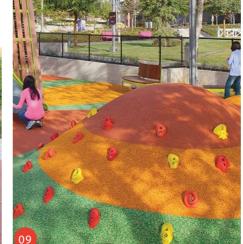






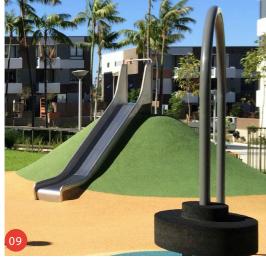






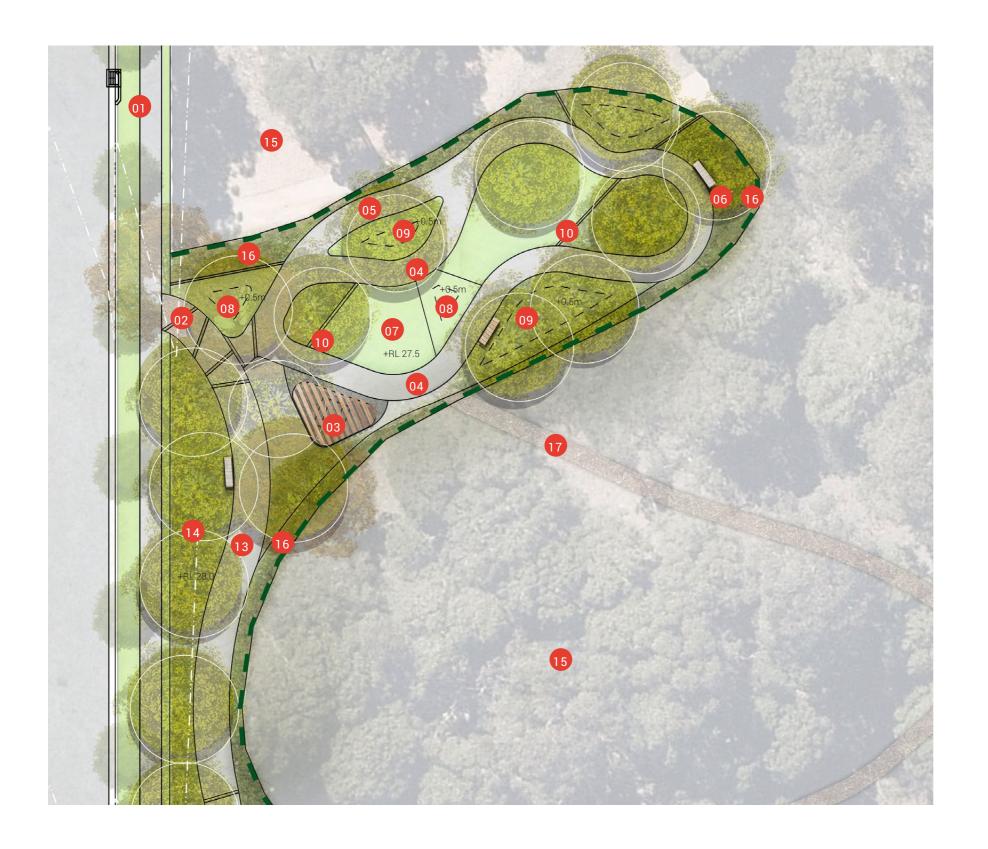












#### **LEGEND**

- Olimination of Street verge and footpath
- 02 Park entry with feature paving bands
- 03 Small Shelter with picnic setting
- 04 Children's Learn to ride track (flat)
- 05 Children's Learn to ride track (pump detour)
- Bench seating to perimeter garden beds
- 07 Internal turf open space
- OB Small turf mounds
- Garden bed mounds
- Concrete edge between turf and gardens
- External 2.5m shared path
- Screen planting to street
- Conservation area
- Native grasses planting to buffer the conservation area with steel post & wire protection fence
- Possible location for bush track access through the conservation lands to other key areas of the park

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#### LEGEND

- 2.5m share way path through park
- 02 Park main entry points
- Large shelter with two picnic settings and BBQ amenity
- Main diagonal access path to and from Werrington Station . Path to be lit with 4m post top lights at 20m spacings
- Feature 4m wide paving area to park entry to allow for RFS truck and council maintenance vehicles.

  Path to be lit with 4m post top lights at 20m spacings
- Bench seating to perimeter garden beds
- 07 Half court basketball area
- Fitness station on granulated rubber soft fall
- Turf slope to back of 450mm high concrete seating walls
- Concrete edging between garden beds and turf
- Turf open space area for active and passive use
- Street verge and footpath
- Retaining wall with screen planting to street
- Conservation area
- Native grasses planting to buffer the conservation area with steel post & wire protection fence
- Possible location for bush track access through the conservation lands to other key areas of the park
- Sandstone log turf terraces/seating walls
- 4m wide Reinforced turf maintenance access track into basin. 1:10 slope
- 5m high post top LED lights along main connection path to station.

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Central Reserve - Active Space Concept Plan

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#### **ACTIVE ZONES**









### INTERPRETATION - 'BROOKLANDS SPEEDWAY' CHILDREN'S LEARN TO RIDE BICYCLE CIRCUIT











#### **LEGEND**

- 2.5m share way path through park
- Park main entry points
- Small shelter with picnic setting
- 1:20 Equitable access path to basin turf open
- 4m wide Concrete maintenance access track into basin. 1:6 slope
- Concrete bench seating to perimeter garden beds or turf nodes
- Concrete blade walls with diagonal pattern and hedge planting behind to 1:4 embankment
- Wind sock entry feature location. Interpretation of the heritage joy flights undertaken from Brooklands (optional)
- Formal structured planting beds to basin perimeter
- Concrete edging between garden beds and turf
- Turf open space area for active and passive use
- Formal under-story planting, screening hedge and tree screen to residual lot
- Sandstone walls to basin
- Open space turf area to detention basin
- Sandstone bund wall to bio-filtration area
- Bio-filtration area
- Basin lower embankment planting to reduce height of basin walls
- Melaleuca trees species to base of basin
- Storm water outlets and scour protection to basin

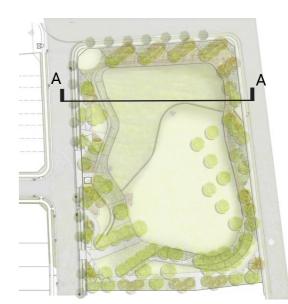
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EASTERN BASIN SECTION AA - PART 2

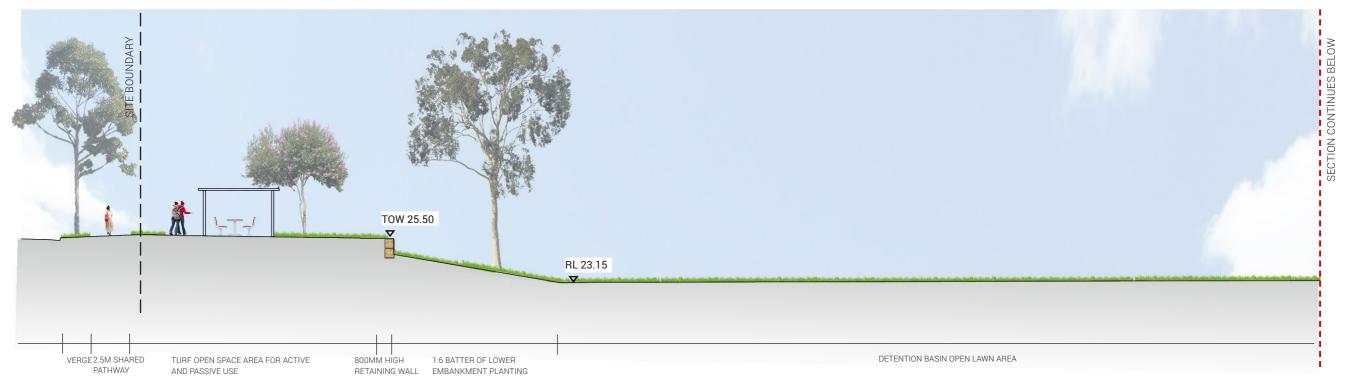


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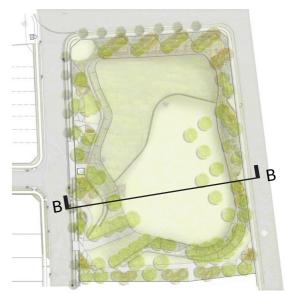
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#### **EASTERN BASIN SECTION BB - PART 1**





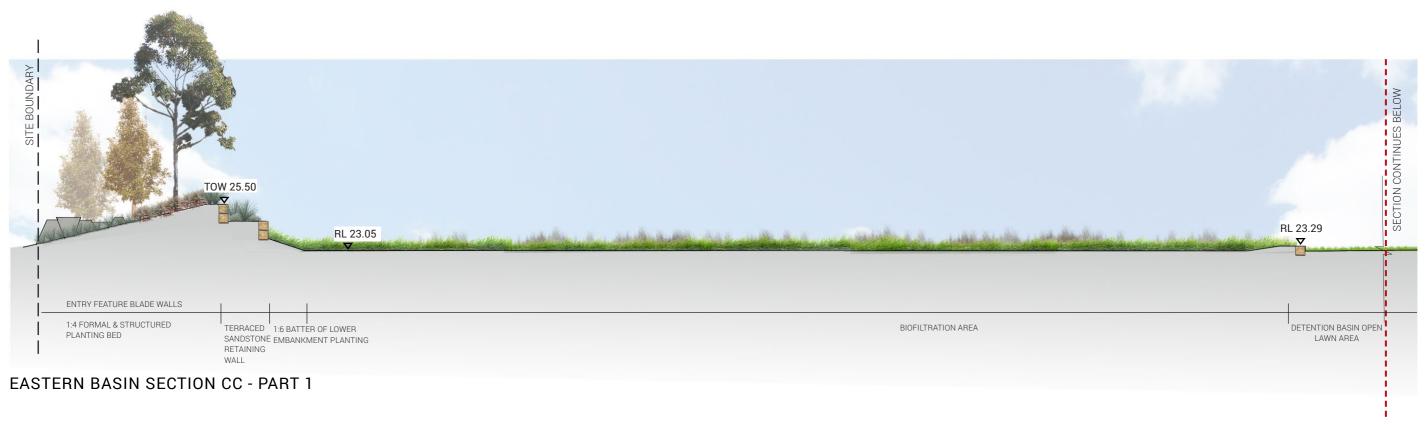


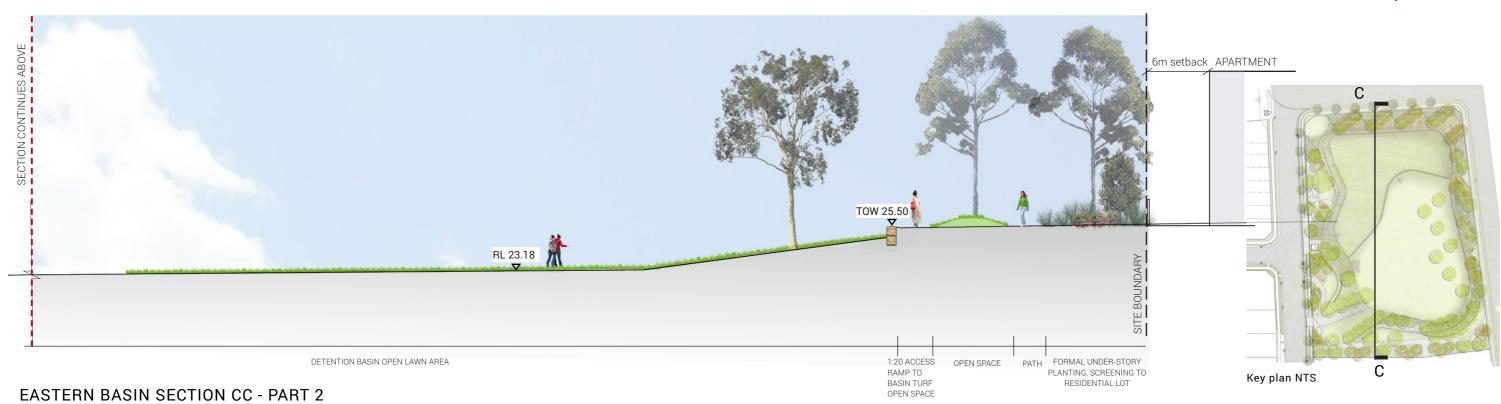
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Eastern Basin Open Space - Sections

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Eastern Basin Open Space - Sections

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# TURF MOUNDS WITH SEATING EDGE



**CONCRETE EDGE TO PLANTER** 



**PAVING** 





SHELTERED PICNIC AREAS



FEATURE PLANTING



**TERRACING** 





INTERPRETATION - GROVES/GRIDS

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OPEN TURF AREA



INTERPRETIVE 'WIND SOCK' ENTRY FEATURE







DESCRIPTION	DIMENSIONS	SPECIFICATION	IMAGE
FIXTURES AND BOLLA			
Star Picket Fence to Conservation Area	H: 900mm	Description: Star picket galvanised steel and wire fence Finish: Galvanised steel and wire Fixing: As per manufacturers/suppliers recommendations	
Bollard Fencing	H: 700mm	Description: Brolga Bollard Fence Finish: Recycled plastic bollards and wire Fixing: As per manufacturers/suppliers recommendations	
Playground Fence	H: 1200mm L: 1500mm	Description: 1200mm high flat top playground fence Panel length: 2400mm Finish: Polyester powder coat (black) to AS4605 Rail size: 40 x 40 x 1.6mm Post size: 65 x 65 1800mm long (min) SHS Picket spacing: 87mm (19mm dia) Material: Pre galvanised steel to AS1450 Fixing: Concrete footing to engineer's detail	
Steel Removable Bollard  WALLS AND EDGES	H: 900mm	Description: Removable Bollard Finish: Powdercoated galvanised steel pipe Colour: Black Fixing: Sub-surface fixed as per manufacturers recommendations	
Sandstone Log Retaining Wall	L: 200/1000mm W: 500mm H: 500mm	Description: Sandstone log retaining wall. Finish: Class A sandstone logs with split face and sawn tops and bottoms (Av 0.5m high)	
Concrete Block Wall	L: 400mm W: 200mm H: 200mm	Description: Reinforced concrete block retaining wall to support residents concrete access path - Reinforced concrete footing; formwork; 1 layer of mesh reinforcement and concrete capping Colour: Sandstone Finish: Splitface	
Concrete Edge	L: Varies W: 150mm H: 200mm	Description: Concrete garden edge Details: Refer to drawings Colour: Standard Grey Finish: Steel trowel	
PAVEMENTS AND SUF	RFACES		
Concrete Pavement	W: 1500, 1800, 2500mm T: Min 125mm	Description: Standard Concrete Pavement. 2.5m wide shared path - 25MPa reinforced concrete; formwork; 1 layer of mesh reinforcement. Expansion joints @ 6m centres - Connolly joints to be used.  Finish: Sandblasted; expansion joints @ 6m centres - Connolly joints to be used. 125mm thick with SL82 mesh	
Concrete Pavement	W: 3500 - 4500mm T: Min 150mm	Description: Standard Concrete Pavement. 3.5-4.5m vehicular path - 30MPa reinforced concrete; formwork; 1 layer of mesh reinforcement. Expansion joints @ 6m centres - Connolly joints to be used. Finish: Sandblasted; expansion joints @ 6m centres - Connolly joints to be used. 150mm thick with SL82 mesh	
Granite Cobblestone Paving Bands	L: 90mm W: 90mm H: 50mm	Description: Granite Cobblestone bands Finish: Split Face Colour: Raven Joint: 10mm grout joint Slip rating: P5	
Coloured Concrete Pavement	W: 1500mm T: Min 125mm	Description: Coloured concrete path Finish: Sand blasted to expose aggregates Colour: CCS 'Biscuit' Joint: Expansion Joints every 6m, control joints every 1.5m Slip rating: P5	

Softfall Rubber		<b>Description:</b> Ethylene Propylene Diene Monomer (EPDM)	
		granule rubber softfall  Thickness: to Critical Fall Height requirements  Colour: TBC  Rubber softfall is to be certified to AS 4422 -2016.	
Stairs	Varies	Description: In situ reinforced concrete stairs with 20mm recess on face of stair. Class 2 finish Colour: Natural Portland Grey Constrast & nosing strip to AS 1428.4 - Black Handrail: Stainless Steel . 50mm OD.	
FURNITURE AND FIXT		In	T
Christie BBQ	L: 1900mm W: 1150mm H: 860mm	Description: Double All-access Barbecue Finish: Stainless Steel	
Litter Bin Enclosure	L: 1165mm W: 660mm H: 1190mm	Description: Bondi Bin Housing Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood	
Timber Bench	L: 2100mm W: 630mm H: 790mm	Description: Terrain seat Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Hardwood Fixing: Surface fixed	
Timber Picnic Setting	L: 2100mm W: 770mm (table top), 390mm (bench) H: 790mm	Description: Terrain setting Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Hardwood Fixing: Surface fixed	
Timber Shelter	L: 4000mm W: 4000mm H: 2300mm	Description: Custom shelter Materials: Hardwood timberposts - dark stain. Colourband roofing Fixings: Hot-dipped galvanised brackets and fixings Installation: Bolt down post fixing to manufacturer's specification	
Playground Shade Sails	Varies	Structure: Hypar Shade Sails Heights: Minimum 2.5m above accessible parts of equipment and 1.5m above non-accessible parts Steelwork: CHS (round) posts with anti-climbing devices Surface Coating: Hot dipped galvanised posts Footings: Bored piers to be certified by suitable structural engineer Cover: Architec 400 with minimum 15yr warranty against UV degradation. UV rating of a minimum of 90%. All fittings are rated galvanised chain. No turnbuckles or wire slings. Colours: TBC	
Concrete Seating Wall	L: Varies W: 500mm H: 450mm	Description: Cast in-situ Concrete seating wall Finish: Class 2 finish Colour: Natural Portland Grey	
Fitness - Jump Box	L: 3460mm (extent of fall zone) W: 4900mm (extent of fall zone) H: 450mm and 600mm	Description: Jump box (UrbanFiT Trekko) Product code: UFT -3609 Supplier: Moduplay	
Static Bench	Varies	Description: Urban fit Trekko - Static Bench UFT- 3601 Materials: Steel	M
Fitness Station	L: 5440mm W: 3920mm H: 3150mm	Description: Body "Byron" (UrbanFiT Trekko) Product code: UFT -3616 Supplier: Moduplay	

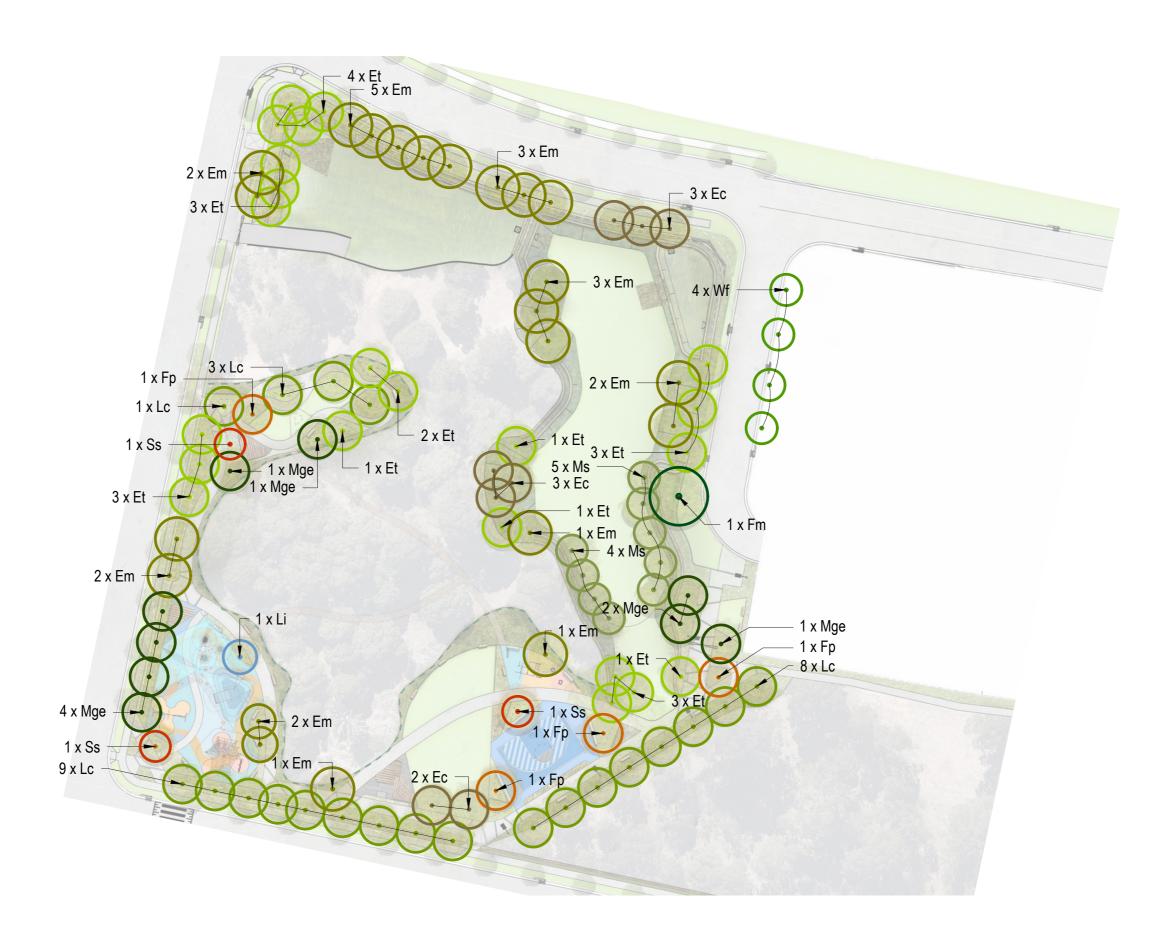


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16 Chapman Street, Werrington Open Space DA Report

Open Space - Materials Schedule

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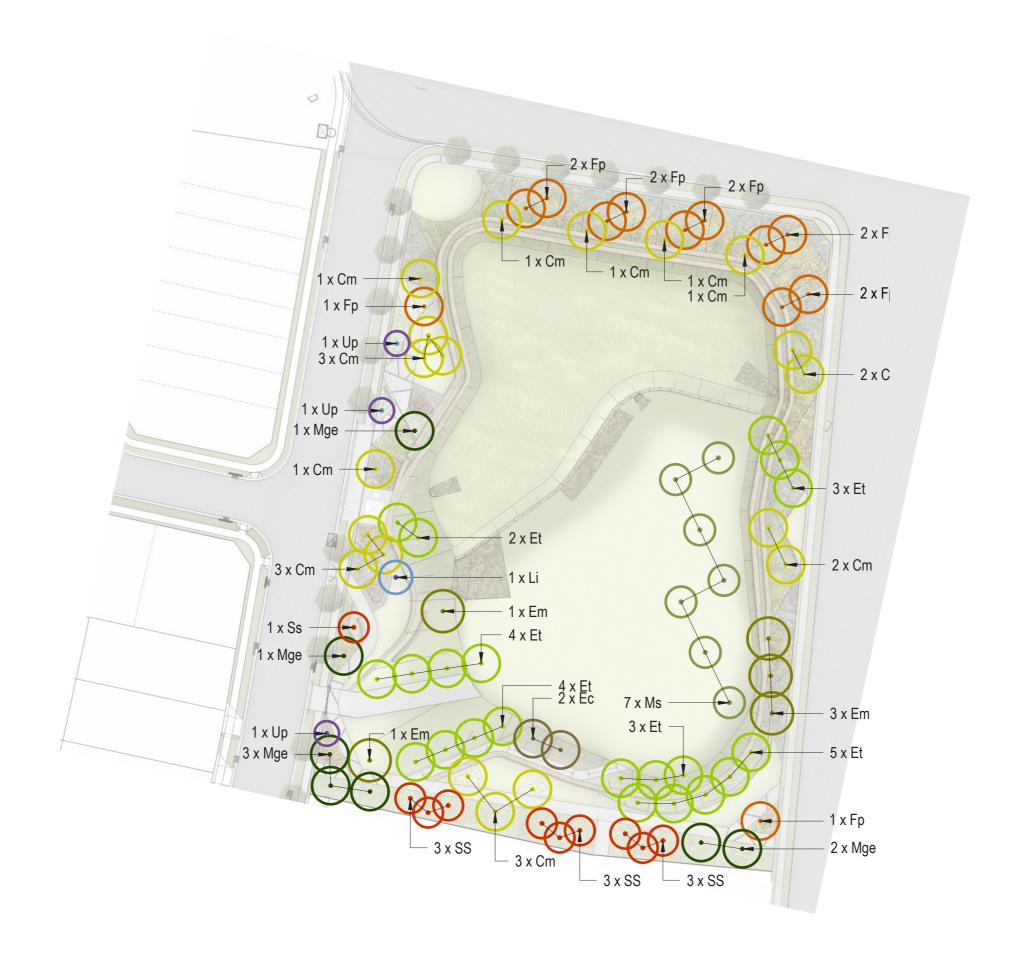


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16 Chapman Street, Werrington Open Space DA Report

Central Reserve Tree Planting Plan

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	16 Chapman St, Werrii	ngton - Central Reserve Open S	pace Tree Pale	ette		
SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2	QTY
TREES - E	Evergreen	•				
Ec	Eucalyptus crebra	Forest Red Gum	20m	100L	As Shown	8
Em	Eucalyptus moluccana	Grey Box	20m	100L	As Shown	22
Et	Eucalyptus tereticornis	Forest Red Gum	25m	100L	As Shown	22
Fm	Ficus microcarpa var. 'Hillii'	Hills Weeping Fig	20m	200L	As Shown	1
Lc	Lophostemon confertus	Brush Box	15m	100L	As Shown	21
Mge	Magnolia grandiflora 'Exmouth'	Magnolia	12m	100L	As Shown	9
Ms	Melaleuca styphelioides	Prickly Leafed Paperbark	8m	100L	As Shown	9
Wf	Waterhousia floribunda 'Green Avenue'	Weeping Lilly Pilly	10m	100L	As Shown	4
TREES - D	Deciduous Technology			L		
Fp	Fraxinus pennsylvanica 'Cimmzam'	Cimmaron Ash	15m	200L	As Shown	4
Li	Largerstroemia indica x fauriei 'Natchez'	Crepe Myrtle	6m	100L	As Shown	1
Ss	Sapium serbiferum	Chinese Tallow	10m	200L	As Shown	3

	16 Chapman St, Wer	rington - Eastern Basin Open Sp	ace Tree Palet	te		
SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2	QTY
TREES - E	vergreen	•	•	•		
Cm	Corymbia maculata	Spotted Gum	20m	100L	As Shown	19
Ec	Eucalyptus crebra	Forest Red Gum	20m	100L	As Shown	2
Em	Eucalyptus moluccana	Grey Box	20m	100L	As Shown	5
Et	Eucalyptus tereticornis	Forest Red Gum	25m	100L	As Shown	21
Mge	Magnolia grandiflora 'Exmouth'	Magnolia	12m	100L	As Shown	7
Ms	Melaleuca styphelioides	Prickly Leafed Paperbark	8m	100L	As Shown	7
TREES - D	 Deciduous					
Fp	Fraxinus pennsylvanica 'Cimmzam'	Cimmaron Ash	15m	200L	As Shown	12
Li	Largerstroemia indica x fauriei 'Natchez'	Crepe Myrtle	6m	100L	As Shown	1
Ss	Sapium serbiferum	Chinese Tallow	10m	200L	As Shown	10
Up	Ulmus parvifolia	Chinese Elm	10m	200L	As Shown	3

#### **ENDEMIC TREE PLANTING**



















Corymbia. maculata

E. Crebra

E. Moluccana

E. Tereticornis

M. styphelioides.

Ficus microcarpa 'Hillii"

Lophostemon confertus

Magnolia grandiflora 'Exmouth'

Waterhousia floribunda 'Green Ave'

### **DECIDUOUS TREE PLANTING**



Fraxinus pennsylvanica 'Cimmzam'





Lagerstroemia indica x frauriei 'Natchez'







**EVERGREEN TREE PLANTING** 

Sapium sebiferum

Ulmus parvifolia

place

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16 Chapman Street, Werrington Open Space DA Report

Open Space Tree Species Palette

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Central Reserve Open Space Planting Plan

DATE	PROJECT NO.	REVISION	DWG NO.
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SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2	QTY
PARK MIX	 KES			<u> </u>		
		T			1 1	
Mix 1					'	
Dc	Dianella caerulea var. caerulea	Flax Lily	0.8m	75mm	6	475
Dm	Dichelachne micrantha	Short-hair Plume Grass	1.2m	75mm	6	475
HS	Hakea sericea	Needlebush	3m	150mm	3	239
Ju	Juncus usitatus	Common Rush	0.9m	150mm	6	475
Ll	Lomandra longifolia	Spiny-headed Matt Rush	0.8m	75mm	6	475
Lf	Lomandra filiformis	Wattle Mat Rush	0.2m	75mm	6	475
MS	Microlaena stipoides	Weeping Meadow Grass	0.2m	75mm	6	475
Ka	Kunzea ambigua	Tick Bush	3m	150mm	3	239
		•		•		
Mix 2	•	•		_		
Cw	Callistemon 'White Anzac'	White Anzac Bottlebrush	1m	150mm	4	108
Dss	Dianella ensiformis 'Silver Streak'	Silver Streak flax lilly	0.5m	150mm	4	108
Dij	Dianella caerulea 'Little Jess'	Blue flax lily	0.3m	150mm	5	136
Hm	Hardenbergia violacea 'Meema'	Meema	0.4m	150mm	3	81
_t	Lomandra longifolia ' Tanika'	Tanika	0.5m	150mm	5	136
Wbg	Westringia 'Blue Gem'	Costal Rosemary	0.9m	150mm	4	108
Wc	Wahlenbergia communis	Turfted Bluebell	0.75m	150mm	5	136
Mix 3	wanienbergia communis	Turried Bidebell	0.73111	130111111		130
Cbj	Callistemon viminalis 'Better John'	Bottleburhs	1.2m	150mm	4	80
De	Doryanthes excelsa	Gymea Lily	2m	150mm	2	41
Dtr	Dianella tasmanica 'Tasred'	Wide bladed flax lily	0.5m	150mm	4	80
Hs	Hibbertia scandens	Snake vine	0.3m	150mm	4	80
Mct	Melaleuca linariifolia 'Claret Tops'	Honey Myrtle 'Claret Tops'	0.9m	150mm	4	80
Pa	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail	0.3m	150mm	6	121
Pe	Poa labillardieri 'Eskdale'	Tussock grass	0.5m	150mm	5	100
Wz	Westringia fruticosa 'Zena'	Coastal Rosemary	0.9m	150mm	4	80
/lix 4	westingia fraticosa Zena	edastai Nosemai y	0.5111	13011111		00
Abr	Anigozanthos 'Bush Ranger'	Kangaroo Paw	0.5m	150mm	6	51
Aam	Acmena smithii 'Allyn Magic'	Lilly Pilly	0.6m	150mm	4	36
Ca	Chrysocephalum apiculatum	Yellow buttons	0.5m	150mm	4	36
De	Doryanthes excelsa	Gymea Lily	2m	150mm	2	16
Lt	Lomandra longifolia ' Tanika'	Tanika	0.5m	150mm	5	44
Mt	Melaleuca thymifolia	Thyme honey myrtle	1m	150mm	5	44
My	Myoporum parvifolium 'Yareena'	Boobialla	0.1m	150mm	4	36
/lix 5	iviyoporum purvijonum Tureenu	DOODIAIIA	0.1111	13011111		30
Bft	Baloskion tetraphyllum 'Feather Top'	Feather Rush	0.5m	75mm	6	1006
lu	Juncus usitatus	Common Rush	0.9m	75mm	6	1006
Lkb	Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	75mm	5	806
_tb	Lomandra 'Tropic Belle'	Lomandra Tropic Belle	0.8m	75mm	5	806
Do.	Pog labillardigri 'Eskdala'	Tussack grass	0.0111	75111111	5	1000

Tussock grass

Kangaroo Grass

Swamp Foxtail Grass

Mix 6						
Ca	Carex appressa	Sedge	1.3m	75mm	6	808
Dc	Dianella caerulea	Blue flax lily	0.5m	75mm	6	808
Fn	Ficinia nodosa	Knobby Club Rush	0.8m	75mm	6	808
Jf	Juncus flavidus	Mat Rush	1.0m	75mm	6	808
Ju	Juncus usitatus	Common Rush	1.0m	75mm	6	808
La	Lepironia articulata	Grey rush	0.9m	75mm	6	808
Li	Lomandra longifolia	Mat Rush	1.2m	75mm	6	808
Mix 7						
Bs	Banksia spinulosa ' Birthday candles'	Banksia	0.5m	150mm	3	34
Ca	Chrysocephalum apiculatum	Yellow buttons	0.5m	150mm	4	43
Dlj	Dianella caerulea 'Little Jess'	Blue flax lily	0.4m	150mm	4	43
De	Doryanthes excelsa	Gymea Lily	2m	300mm	2	22
Hs	Hibbertia scandens	Snake vine	1m	150mm	4	43
Ljr	Liriope muscari 'Just right'	Turf Lilly	0.65m	150mm	4	43
LKB	Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	150mm	4	43
Pa	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail	0.3m	150mm	6	66
Sh	Scaevola humilis 'Purple Fusion'	Scaevola	0.2m	150mm	5	56
Mix 8						
Aam	Acmena smithii 'Allyn Magic'	Lilly Pilly	0.6m	150mm	4	355
Lt	Lomandra longifolia ' Tanika'	Tanika	0.5m	150mm	6	635
LL	Lomandra longifolia	Spiny-headed Matt Rush	0.8m	150mm	4	355
Mct	Melaleuca linariifolia 'Claret Tops'	Honey Myrtle 'Claret Tops'	0.9m	150mm	4	355
Pe	Poa labillardieri 'Eskdale'	Tussock grass	0.6m	150mm	6	635
Wz	Westringia fruticosa 'Zena'	Coastal Rosemary	0.9m	150mm	4	355

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Pe

Pn

16 Chapman Street, Werrington Open Space DA Report

1006

1006

1006

6

6

6

75mm

75mm

75mm

0.6m

0.6m

0.5m

Poa labillardieri 'Eskdale'

Pennisetum 'Nafray'

Themeda australis

#### FEATURE PLANTING



Beschorneria yuccoides Mexican Lily



Lomandra longifolia 'Tanika'



Dietes grandiflora



Doryanthes excelsa Gymea Lily



Westringia fruticosa 'Zena' Coastal Rosemary



Hardenbergia violacea 'Meema'



Liriope muscari 'Just right'



Dianella 'Little Jess' Blue Flax Lily Little Jess



Anigozanthos 'Bush Bonanza' Kangaroo Paw

MIX 1



Dietes grandiflora



Dianella revoluta 'Little Rev'



Pennisetum alopecuroides Swamp Foxtail



Lavandula dentata



Rhaphiolepis delacourii



Liriope muscari 'Isabella'



Philodendron xanadu

MIX 3



Alternanthera dentata 'Little Ruby'



Chrysocephalum apiculatum



Echium candicans Pride of Madeira

# MIX 4



Strelitzia reginae bird of paradise



Carpobrotus rossii



Murraya paniculata Orange jassamine

#### BANK PLANTING



Baloskion tetraphyllum Feather Rush



Juncus usitatus



Poa labillardieri 'Eskdale' Tussock grass



Themeda australis Kangaroo grass

#### FILTRATION MEDIUM



Carex appressa



Ficinia nodosa Knobby Club Rush



Lepironia articulata Grey rush

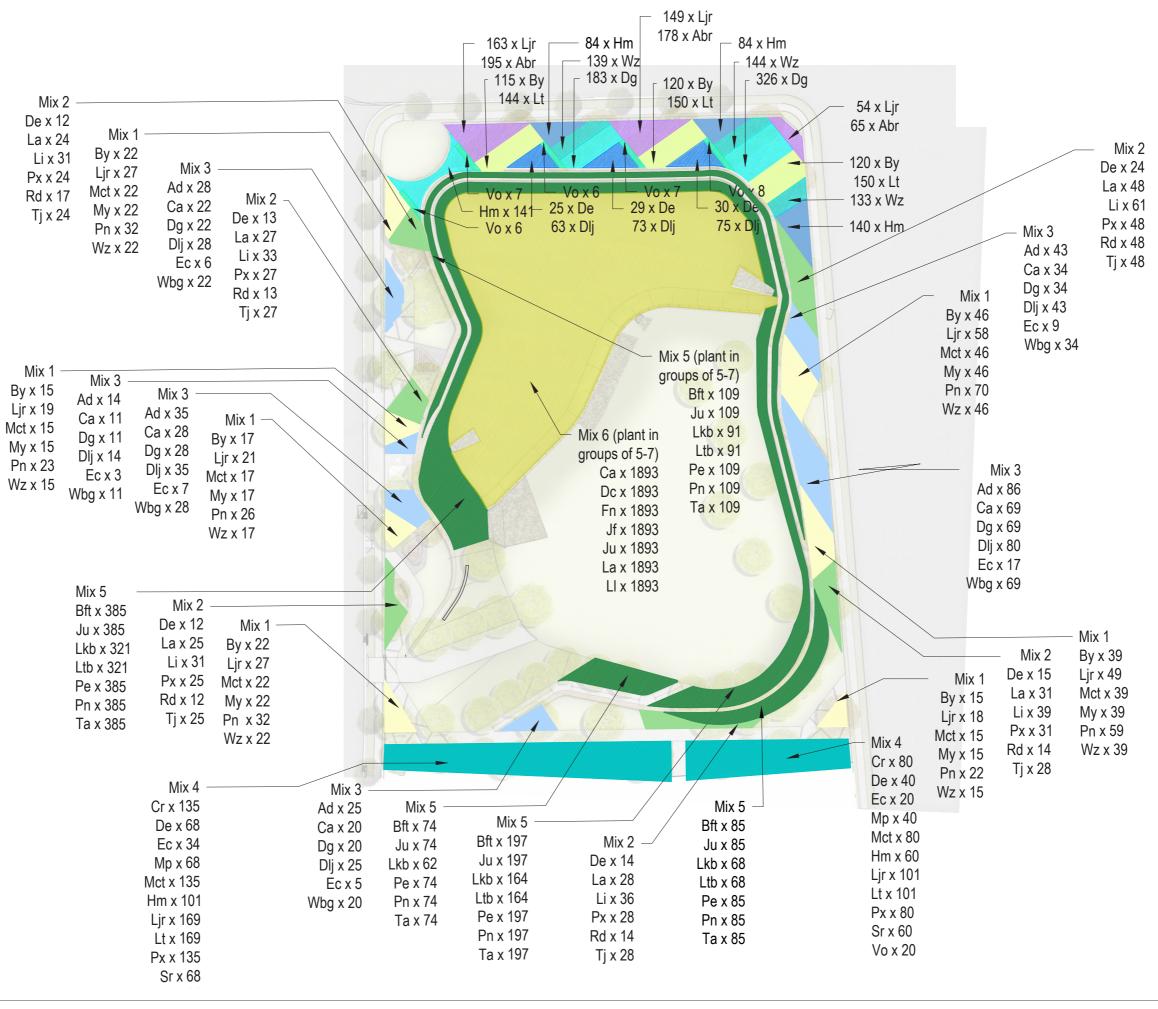


Juncus flavidus Mat Rush

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Eastern Basin Open Space Planting Plan

DATE PR	ROJECT NO. RE	VISION DW	G NO.
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SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2	QTY
FEATUR	RE PLANTING		J			
Abr	Anigozanthos 'Bush Bonanza'	Kangaroo Paw	0.6m	150mm	6	438
Ву	Beschorneria yuccoides	Mexican Lily	1.5m	150mm	4	355
Dg	Dietes grandiflora	Wild Iris	0.5m	150mm	4	509
De	Doryanthes excelsa	Gymea Lily	2m	300mm	2	84
Dlj	Dianella caerulea 'Little Jess'	Blue flax lily	0.4m	150mm	5	211
Hm	Hardenbergia violacea 'Meema'	Meema	0.5m	150mm	3	449
Ljr	Liriope muscari 'Just right'	Turf Lilly	0.65m	150mm	5	366
Lt	Lomandra longifolia ' Tanika'	Tanika	0.5m	150mm	5	444
Wz	Westringia fruticosa 'Zena'	Coastal Rosemary	0.9m	150mm	4	416
Vo	Viburnum odoratissimum	Sweet Viburnum	4m	300mm	1	34
Mix 1						
Ву	Beschorneria yuccoides	Mexican Lily	1.5m	150mm	4	176
Ljr	Liriope muscari 'Just right'	Turf Lilly	0.65m	150mm	5	219
Mct	Melaleuca linariifolia 'Claret Tops'	Honey Myrtle 'Claret Tops'	0.9m	150mm	4	176
Му	Myoporum parvifolium 'Yareena'	Boobialla	0.1m	150mm	4	176
Pn	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail	0.3m	150mm	6	219
Wz	Westringia fruticosa 'Zena'	Coastal Rosemary	0.9m	150mm	4	176
Mix 2						
De	Doryanthes excelsa	Gymea Lily	2m	300mm	2	90
La	Lavandula dentata	French Lavender	0.5m	150mm	4	183
Li	Liriope muscari 'Isabella'	Lilly Turf 'Isabella'	0.4m	150mm	5	231
Px	Philodendron xanadu	Xanadu	0.5m	150mm	4	183
Rd	Rhaphiolepis delacourii	Hybrid Indian Hawthorn	1m	150mm	2	90
Tj	Trachelospermum jasminoides	Star Jasmine	0.5m	150mm	4	183
Mix 3						
Ad	Alternanthera dentata 'Little ruby'	Little ruby	0.6m	150mm	5	21
Ca	Chrysocephalum apiculatum	Yellow buttons	0.5m	150mm	4	184
Dg	Dietes grandiflora	Wild Iris	0.5m	150mm	4	184
Dlj	Dianella caerulea 'Little Jess'	Blue flax lily	0.4m	150mm	5	231
Ec	Echium candicans	Pride of Madeira	1m	300mm	1	47
Wbg	Westringia 'Blue Gem'	Costal Rosemary	0.9m	150mm	4	184
Mix 4						
Cr	Carpobrotus rossii	Pig Face	0.2m	150mm	4	215
De	Doryanthes excelsa	Gymea Lily	2m	300mm	2	108
Ec	Echium candicans	Pride of Madeira	1m	300mm	1	54
Мр	Murraya paniculata	Orange jassamine	3m	300mm	2	108
Mct	Melaleuca linariifolia 'Claret Tops'	Honey Myrtle 'Claret Tops'	0.9m	150mm	4	215
Hm	Hardenbergia violacea 'Meema'	Meema	0.5m	150mm	3	167
Ljr	Liriope muscari 'Just right'	Turf Lilly	0.65m	150mm	5	270
Lt	Lomandra longifolia ' Tanika'	Tanika	0.5m	150mm	5	270
Px	Philodendron xanadu	Xanadu	0.5m	150mm	4	215
Sr	Strelitzia reginae	bird of paradise	1m	300mm	2	108
Vo	Viburnum odoratissimum	Sweet Viburnum	4m	300mm	1	54

Mix 5						
Bft	Baloskion tetraphyllum 'Feather Top'	Feather Rush	0.5m	75mm	6	850
Ju	Juncus usitatus	Common Rush	0.9m	75mm	6	850
Lkb	Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	75mm	5	706
Ltb	Lomandra 'Tropic Belle'	Lomandra Tropic Belle	0.8m	75mm	5	706
Pe	Poa labillardieri 'Eskdale'	Tussock grass	0.6m	75mm	6	850
Pn	Pennisetum 'Nafray'	Swamp Foxtail Grass	0.6m	75mm	6	850
Та	Themeda australis	Kangaroo Grass	0.5m	75mm	6	850
Mix 6						
Ca	Carex appressa	Sedge	1.3m	75mm	6	1893
Dc	Dianella caerulea	Blue flax lily	0.5m	75mm	6	1893
Fn	Ficinia nodosa	Knobby Club Rush	0.8m	75mm	6	1893
Jf	Juncus flavidus	Mat Rush	1.0m	75mm	6	1893
Ju	Juncus usitatus	Common Rush	1.0m	75mm	6	1893
La	Lepironia articulata	Grey rush	0.9m	75mm	6	1893
Li	Lomandra longifolia	Mat Rush	1.2m	75mm	6	1893

Refer to Planting Plan - Shrubs, Grasses and Ground-covers on page 16



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#### MIX 1



Dichelachne micrantha Short-hair Plume Grass



Kunzea ambigua Tick Bush



Microlaena stipoides Weeping Meadow



Hakea sericea Needlebush



Callistemon 'White Anzac' White Anzac Bottle-



Westringia 'Blue Gem' Costal Rosemary



Dianella ensiformis 'Silver Streak' Silver Streak flax lilly



Wahlenbergia communis Turfted Bluebell

#### MIX 3



Doryanthes excelsa



Dietes grandiflora Wild Iris



Myoporum parvifolium Creeping boobialla



Lomandra longifolia



Lomandra longifolia 'Tanika'



Acmena smithii 'Allyn Magic'



Anigozanthos 'Bush Bonanza' Kangaroo Paw



Chrysocephalum apiculatum

#### MIX 5 - BANKS



Baloskion tetraphyllum Feather Rush





Poa labillardieri 'Eskdale' Tussock grass



Themeda australis Kangaroo grass

## MIX 6 FILTRATION MEDIUM



Carex appressa



Ficinia nodosa Knobby Club Rush



Lepironia articulata



Juncus flavidus Mat Rush

#### MIX 7 - PLAYGROUND PLANTING



Pennisetum alopecuroides Swamp Foxtail



Dianella 'Little Jess' Blue Flax Lily Little Jess



Banksia spinulosa 'Birthday candles' Hibbertia scandens Blue Flax Lily Little Jess





Scaevola humilis 'Purple Fusion'



MIX 8

Acmena smithii 'Allyn Magic'



Lomandra longifolia



Poa labillardieri 'Eskdale' Tussock grass

place design

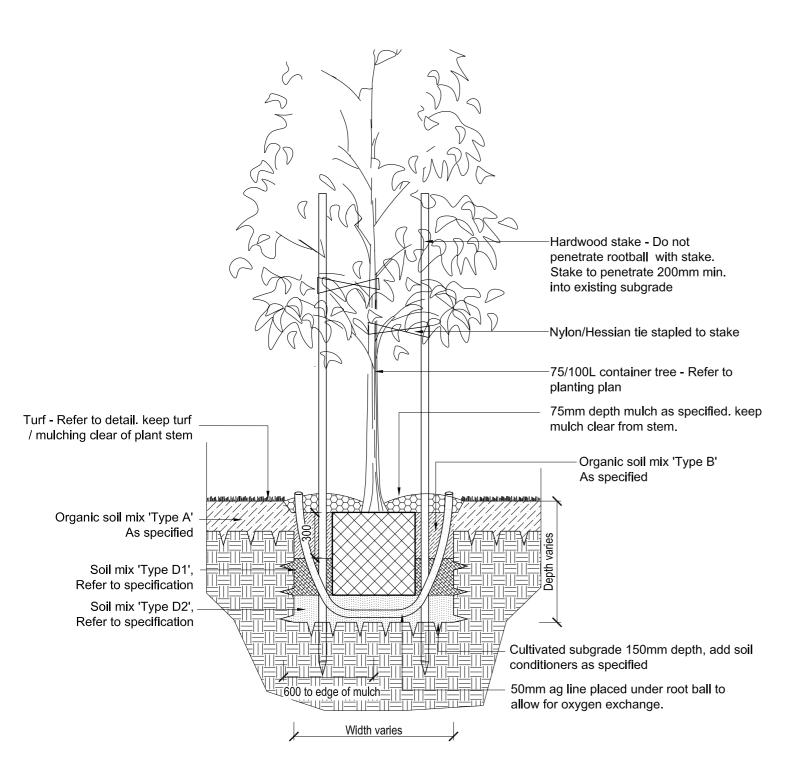
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Eastern Basin Planting Images

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75L/100L container tree. Refer tree planting plans and planting schedule. 50 x 50mm x 2.4m Hardwood stake - Do not penetrate rootball with stake. Stake to penetrate 200mm min. into existing subgrade. 50mm Nylon/Hessian tie with figure eight patten stapled to stake. 75mm Thick organic mulch, keep clear of stem. Refer specification. Mass planting where shown in plan. Keep mulching clear of plant stem. 300mm Deep imported soil mix. Refer specification. Tree root ball. Soil mix 'Type D1', Refer to specification Soil mix 'Type D2', Refer to specification Cultivate existing subgrade to min. 150mm deep. 50mm AG line placedunder root ball to allow for oxygen exchange

Note: Tree planting hole dimensions according to container size: Width min. 2 x root ball diameter (min. 820 / 1100 / 1400mm for 45/75/100L containers) and depth min. 150mm below root ball depth.

Note: Tree planting hole dimensions according to container size: Width min. 2 x root ball diameter (min. 820 / 1100 / 1400mm for 45/75/100L containers) and depth min. 150mm below root ball depth.

1

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#### TYPICAL TREE PLANTING IN TURF DETAIL

**SCALE 1:25** 

2

## TYPICAL TREE PLANTING IN MASS PLANTING DETAIL

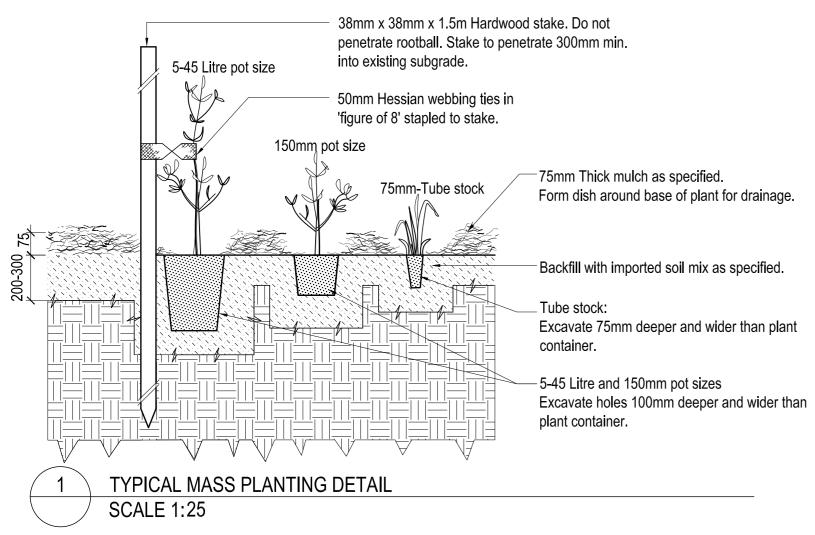
**SCALE 1:25** 

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Open Space Typical Details - Softscapes

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800mm Spacing on centres
3 plants per M²

700mm Spacing on centres
4 plants per M²

600mm Spacing on centres
5 plants per M²

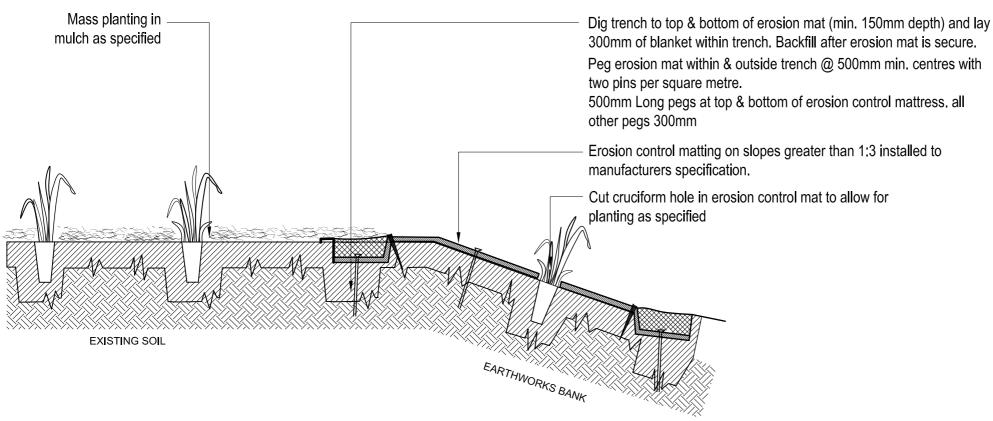
500mm Spacing on centres 6 plants per M<sup>2</sup>

400mm Spacing on centres 7 plants per M<sup>2</sup>

2

#### TYPICAL PLANTING ARRANGEMENT DETAIL

**SCALE 1:50** 



TYPICAL STEEP EMBANKMENT PLANTING DETAIL SCALE 1:25

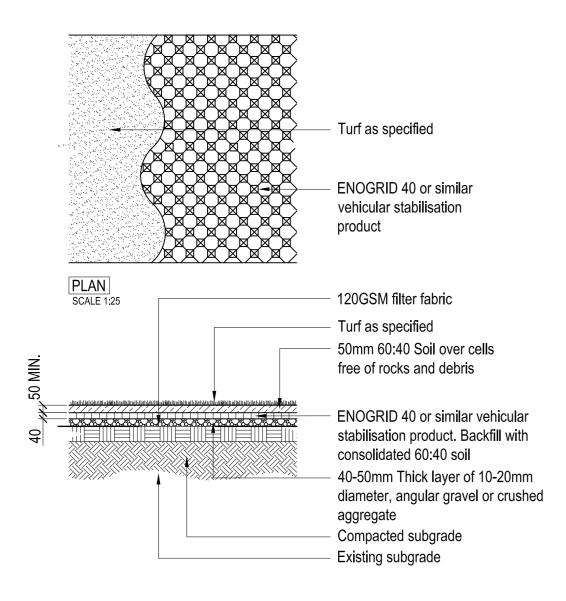
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Open Space Typical Details - Softscapes

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design

place



Turf, as specified
Finished grade, refer to grading plans.
Minimum 150mm Soil mix 'Type A' refer to specification
Cultivate subgrade to a depth of 150mm.

#### **General Notes:**

Regularly remove weed growth throughout planted and mulched areas during the course of project contruction.

Lightly tamp or roll surface of turf after installation to ensure that turf roots are in contact with topsoil.

Turf on low side of any path or edge to finish 10mm below finished path/edge level.

\_\_\_\_

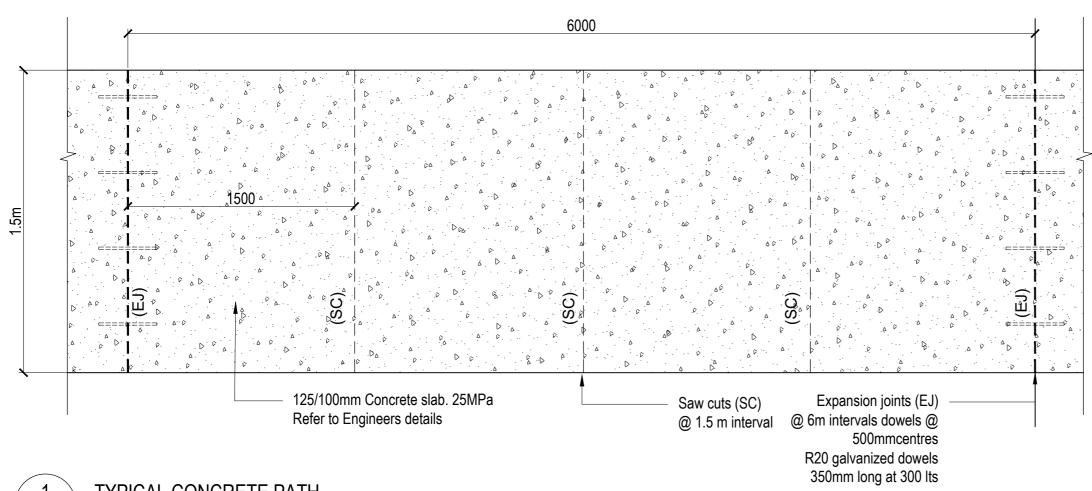
TYPICAL TURF DETAIL

**SCALE 1:10** 

1 TYPICAL REINFORCED TURF DETAIL SCALE 1:25



Version: 1, Version Date: 21/02/2020



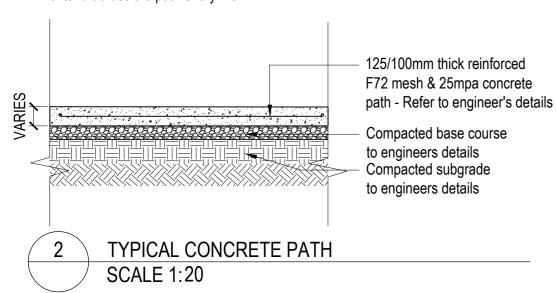
1

# TYPICAL CONCRETE PATH

SCALE 1:25

#### Note:

Expansion joint to extend across the path width every 6 meters.
Control joints (saw cut joints)to extend across the path every 1.5m.



Flexible sealant joint filler colour to match concrete slabs

125mm/100mm Reinforced concrete slab.
25MPa - Refer to engineer's details

Expansion joint@ 6m centres refer to engineers details

Compacted base course to engineers details

Grease and cap one end of dowel

Compacted subgrade to engineers details

3 TYPICAL EXPANSION JOINT SCALE 1:20

Concrete slab with specified surface finish

Deep saw cut joint into pavement.
Joint width to be 3mm. Saw cut
depth min 40mm to 125mm slab.
(Sawcut within 18 -24 hours after pouring)

4

TYPICAL CONCRETE SAW CUT SCALE 1:10

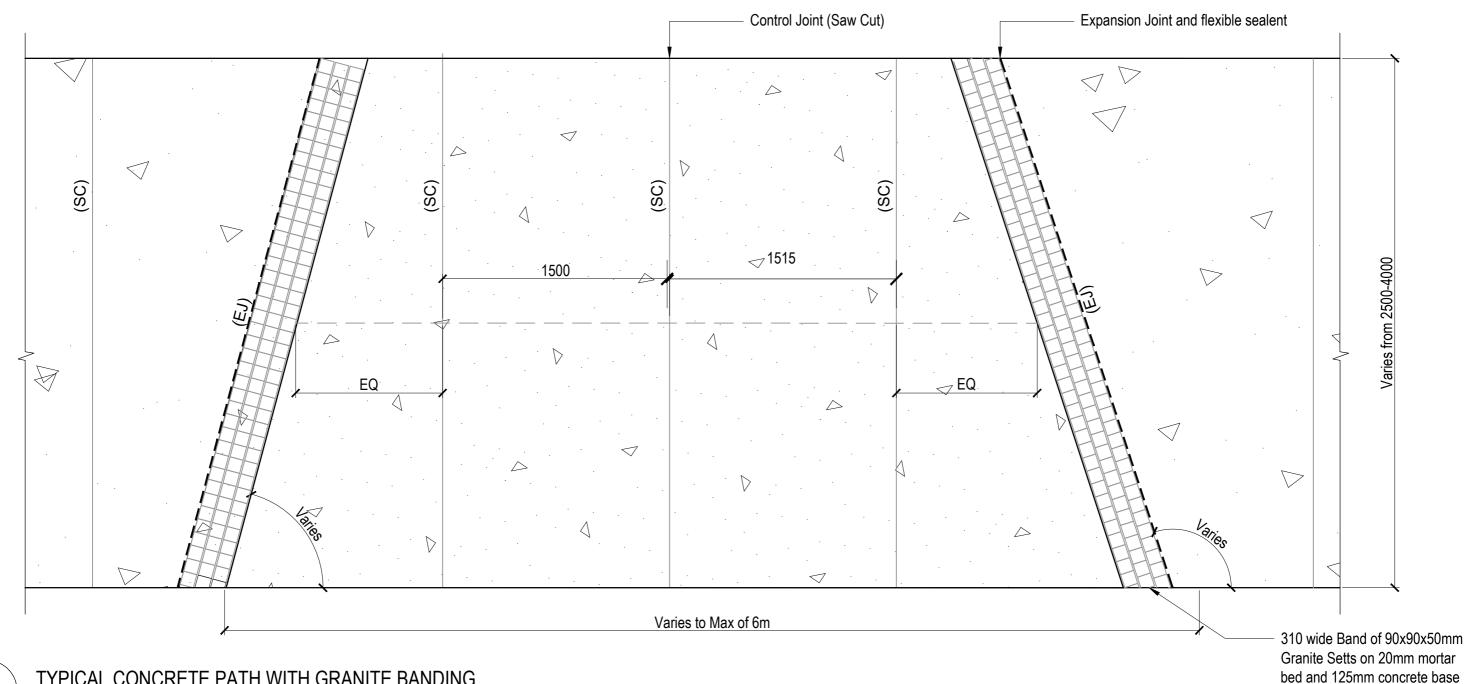
place design group. Document Set ID: 9034778

Version: 1. Version Date: 21/02/2020

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#### 16 Chapman Street, Werrington Open Space DA Report

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1 TYPICAL CONCRETE PATH WITH GRANITE BANDING SCALE 1:25

Paving Type P-1: 150 mm thick
25 MPa concrete with SL72 fabric

Finish: broom finish

SL82 Reinforcing mesh
50 mm cover

The state of t

TYPICAL CONCRETE PATH WITH GRANITE BANDING SCALE 1:20

place design group. Document Set ID: 9034778

Version: 1, Version Date: 21/02/2020

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Open Space Typical Details -Hardscapes

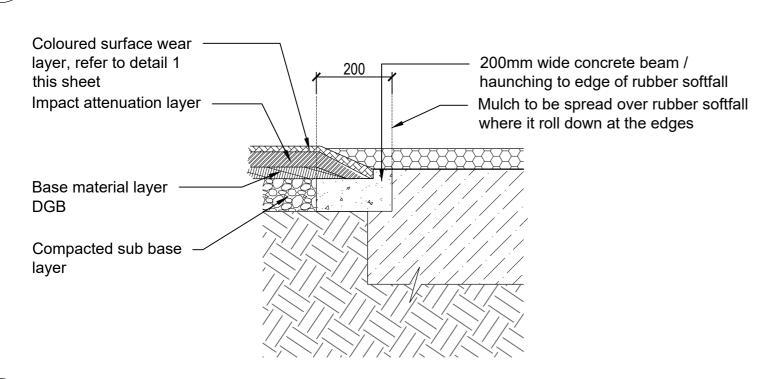
DATE	PROJECT NO.	REVISION	DWG NO.
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Coloured surface wear layer thickness typically from Note: Installation refer to manufacturers 12mm - 15mm. Grain size between 1mm - 4mm. Set detail by certified installer with polyeurethane binder. Refer to finishes plan for colours and pattern Impact attenuation layer black rubber set with polyurethane Surface wear layer increases in depth to min 35mm at binder, to manufacturers details. Layer thickness varies outer edges depending on the free height of fall of the equipment installed. Pavement Type P-1 Typical thicknessess for this layer are between 20mm - 80mm Base material layer DGB or recycled concrete. Sometimes shaped to create sections of differing critical fall heights. Mechanically compacted to create a rigid layer on to which upper layers are installed. Layer thickness typically 100mm +/- 20mm. Existing hard surfaces such as concrete or bitumen may preclude the requirement of a base material layer. Hard surface concrete edge must be pre-coated with binder Compacted sub base layer to ensure long-term adhesion. Refer to manufacturers

1 TYPIC

#### TYPICAL RUBBER SOFT FALL DETAIL

**SCALE 1:10** 



TYPICAL RUBBER SOFT FALL WITH ROLLED EDGE SCALE 1:10

Rubber softfall. Refer to detail 1 this sheet

150x150mm concrete edge. 20 mpa strength grade. 10mm bevel to top edges to prevent sharp corners

Turf as per specification

Compacted base course

Compacted subgrade

Existing subgrade

3 TYPICAL RUBBER SOFT FALL WITH CONCRETE EDGE SCALE 1:10

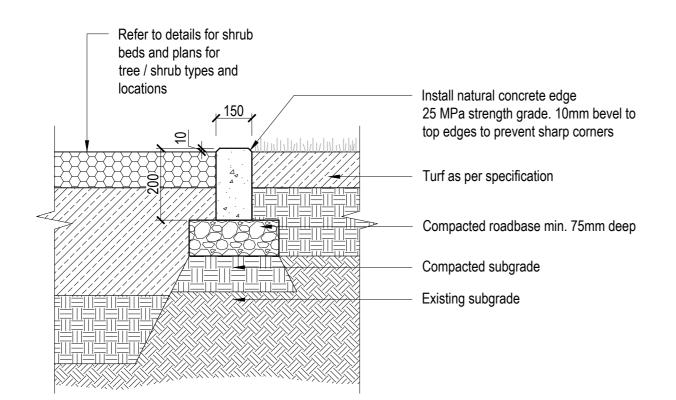
instructions for details

place design group.

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Open Space Typical Details -Soft Fall Details

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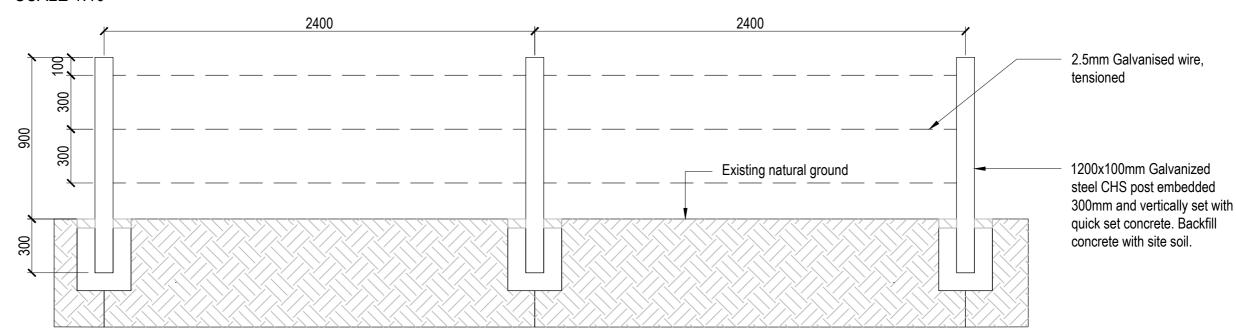


#### Note:

- 1. Garden edges to be installed to all junctions between planted areas and turf refer to plans for locations;
- The edging section is increased to 200x300 mm at the locations where maintenance vehicles are proposed to access gardens;
- B. Dummy joints every 1.5m, expansion joints every 6.0m

TYPICAL CONCRETE EDGE DETAIL

**SCALE 1:10** 



2 TYPICAL GALV. STEEL POST & WIRE FENCE DETAIL FOR CONSERVATION AREA SCALE 1:20



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# Place Design Group Pty Ltd DEVELOPER MAINTENANCE & DEFECTS LIABILITY PROGRAM

Client: Lendlease

Project Name: 16 Chapman Street, Werrington NSW

Precinct Name: Central reserve & Eastern Basin Open Space

Works Description: Maintenance for all Hard Landscape areas

Maintenance Period: 12 Months from Practical Completion

HARDSCAPE AREAS:

T	EDECUENCY: A C March	EDEOUGNOV C. 40 Marsh
TASK DESCRIPTION:	FREQUENCY: 0-6 Months	FREQUENCY: 6 - 12 Months
Concrete pavements, walls & edging	Forderinksh.	Adamate to
Visual inspection of all pavements for damage, cracks or chips	Fortnightly	Monthly
Visual inspection of all payaments for efforescence (Salt deposits)	Fortnightly	Monthly
Visual inspection of all pavements for colour consistancy and stains	As Required	As Required
Leaf and debris clearance with blower	Monthly	Quarterly
Paved Surfaces	Forderinksh.	Adamate to
Visual inspection of all paving for damage, cracks or stains	Fort nightly	Monthly Monthly
Visual inspection of all paving for lifting of sub base Visual inspection of all paving for mortar damage / re-pointing	Fortnightly	Monthly
Clean in accordance with manufacturers recommendations and warranties	A a rescuire d	An englished
	As required	As required
Replace failed or damaged paving and resin bound gravels	As required	As required
Soft Fall Surfaces		
Visual inspection of all rubber soft fall for damage, cracks, joint separation or stains	Fortniahtly	Monthly
g-,,		
Visual inspection of all rubber soft fall for lifting of sub base and wearing course	Fortnightly	Monthly
Visual inspection of all rubber soft fall for colour fade	Fortnightly	Monthly
Clean and repair in accordance with manufacturers recommendations and warranties	As required	As required
Shelter and Play Equipment		
Inspect, maintain & repair all defects to steel shelter and roof in accordance to the		
manufacturers recommendations and warranties	Monthly/ As required	Quarterly
Inspect, maintain & repair all defects to all play equipment in accordance to the manufacturers recommendations and warranties	Monthly/ As required	Quarterly
Clean in accordance with manufacturers recommendations and warranties	As Required	As Required
	As Required	As Required
Allow for re-application of timber exterior paint or oil based stain every two years where timber is used		2 years
Furniture		
Inspect, maintain & repair all furniture elements in accordance to the manufacturers		
recommendations and warranties	Monthly/ As required	Monthly/ As required
Allow for re-application of timber exterior paint or oil based stain every two years		
where timber is used		2 years
Bollards		
Inspect, maintain & repair all defects to removable Steel bollards & collars	Monthly	Monthly/ As required
Clean stains in accordance with manufacturers recommendations	As Required	As Required
Allow for re-application of timber exterior paint or oil based stain every two years		
where timber is used		2 years
Drainage		
Replace failed or damaged surface drains or grates	As required	As required
Replace failed or damaged sub surface drains or outlets	As required	As required
Remove all leaf and debris from field gullies & surface drains	Monthly	Quarterly
Clear away all Leaf and debris with blower	Monthly	Quarterly
Irrigation (if required)		
Inspect, maintain & repair all defects to lines & emitters	Monthly/ As required	Quarterly
Inspection of water storage tank	Bi-Annually	Annually/ As Required
Inspection & service of irrigation pump and UV filter	Monthly	Quarterly
Inspection & service of irrigation control panel	Monthly	Quarterly
Urgent works		
Report any theft, damage or vandalism	Weekly	As required
ADDITIONAL WORKS / COMMENTS:		1
Site Foreman		

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16 Chapman Street, Werrington Open Space DA Report

Open Space Typical Maintenance Schedules

# Place Design Group Pty Ltd PROPOSED MAINTENANCE SCHEDULE

Client: Lendlea

Project Name: 16 Chapman Street, Werrington NSW

Precinct Name: Central reserve & Eastern Basin Open Space

Works Description: Maintenance of Hard and Soft Landscape Areas

Maintenance Period: 12 Months from Practical Completion

SOFTSCAPE AREAS:

Trees	FREQUENCY: 0-6 Months	FREQUENCY: 6 - 12 Months
Visual inspection of all trees	Fortnightly in summer/ Monthly in Winter	Monthly in summer/ Once in Winter
Manually inspect water levels to trees	Fortnightly in summer/ Monthly in Winter	Monthly in summer/ Once in Winter
Inspect damage to trees	Fortnightly in summer/ Monthly in Winter	Monthly in summer/ Once in Winter
Replace any taping to trees	Fortnightly in summer/ Monthly in Winter	Monthly in summer/ Once in Winter
Prune dead or damaged branches	Fortnightly in summer/ Monthly in Winter	Monthly in summer/ Once in Winter
Check for and report pests & diseases	Fortnightly	Monthly
Replace failed or damaged trees	Fortnightly/ As required	Monthly/ As required
Spray in accordance with manufacturers recommendations	As required	As required
Adjust &/ or replace stakes & ties where necessary	As required	As required
Turf		
Mow all turf areas to maintain height between 25-35mm	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/ Every 2 Months in Winter
Trim edges of all turf areas	Weekly in Summer/ Monthly in Winter	Fortnightly in Summer/ Every 2 Months in Winter
Remove clippings from site	Weekly in Summer/ Monthly in Winter	Fortnightly in Summer/ Every 2 Months in Winter
Remove litter & debris from turf areas	Weekly in Summer/ Monthly in Winter	Fortnightly in Summer/ Every 2 Months in Winter
Check for and report pests & diseases	Fortnightly	Monthly
• •		· ·
Spray in accordance with manufacturers recommendations	As required	As required
Monitor and apply fertiliser to turf areas	6 month intervals - Autumn/ Spring	Yearly - Spring
Mulch		
Remove litter & debris from mulch areas	Fortnightly	Monthly
Remove weed growth in mulch areas	Fortnightly	Monthly
Top up mulch levels	Annually	Annually
Plants		
rialits		
Check for and report pests & diseases	Fortnightly	Monthly
Check for and report pests & diseases	Fortnightly Fortnightly	
Check for and report pests & diseases Spray in accordance with manufacturers recommendations	Fortnightly	Monthly
Check for and report pests & diseases Spray in accordance with manufacturers recommendations Prune damaged or dead branches	Fortnightly Fortnightly	Monthly Monthly
Check for and report pests & diseases Spray in accordance with manufacturers recommendations Prune damaged or dead branches Remove weed growth in plant areas	Fortnightly Fortnightly Fortnightly	Monthly Monthly Monthly
Check for and report pests & diseases Spray in accordance with manufacturers recommendations Prune damaged or dead branches Remove weed growth in plant areas Replace failed or damaged plants	Fortnightly Fortnightly Fortnightly Fortnightly/ As required	Monthly Monthly Monthly Monthly/ As required
Check for and report pests & diseases Spray in accordance with manufacturers recommendations Prune damaged or dead branches Remove weed growth in plant areas Replace failed or damaged plants	Fortnightly Fortnightly Fortnightly	Monthly Monthly Monthly
Check for and report pests & diseases  Spray in accordance with manufacturers recommendations  Prune damaged or dead branches  Remove weed growth in plant areas  Replace failed or damaged plants  Adjust &/ or replace stakes & ties where necessary  General Watering to all street trees	Fortnightly Fortnightly Fortnightly Fortnightly/As required Fortnightly/As required	Monthly Monthly Monthly Monthly/ As required Monthly/ As required
Check for and report pests & diseases  Spray in accordance with manufacturers recommendations  Prune damaged or dead branches  Remove weed growth in plant areas  Replace failed or damaged plants  Adjust &/ or replace stakes & ties where necessary  General Watering to all street trees  Irrigation by water cart or hosecock as required to maintain	Fortnightly Fortnightly Fortnightly Fortnightly/ As required	Monthly Monthly Monthly Monthly/ As required
Check for and report pests & diseases  Spray in accordance with manufacturers recommendations  Prune damaged or dead branches  Remove weed growth in plant areas  Replace failed or damaged plants  Adjust &/or replace stakes & ties where necessary	Fortnightly Fortnightly Fortnightly Fortnightly/As required Fortnightly/As required Weekly first 6 months/Fortnightly there after dependent on	Monthly Monthly Monthly Monthly/ As required Monthly/ As required

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Playground / An	nenities Ma	intenance Schedule & Opinion of	Probable Life Cyc	le Costs		
DESCRIPTION	DIMENSIONS	SPECIFICATION	IMAGE	WARRANTY INFORMATION	NUMBER	TOTAL REPLACEMENT COST (PER ITEM)
Plane	H: 920mm L: 2140mm W: 730	Description: City Plane Product Number: City - J2603 Max free fall height: 0.6m Supplier: Proludic		Warranty Standard guarantee: 2 years for any defect or manufacturing fault of component parts Extented guarantee: Panels: 25 Years Steel Posts: 25 Years High density plastic: 10 Years Metal components: 10 Years	1	\$ 5,800.00
Swings	H: 900mm	Description:2 bay portal swing 2.5m with Birds nest rope swing Product Number: KSW92011 Finish: Powdercoated galvanised steel pipe Fixing: Sub-surface fixed Supplier: Kompan		Warranty Corocord Rope: 10 Years Aluminium: 10 Years Plastic Activities: 5 Years Spare parts guaranteed: 10 Years		
Explorer Dome	L: Varies W: 500mm H: Av 0.5m high	Description: Multiplay piece Product Number: COR86300 Supplier: Kompan		Warranty Corocord Rope: 10 Years S-Clamps: 10 Years Aluminium Clamps: 10 Years Plastic Activities: 5 Years Spare parts guaranteed: 10 Years	1	\$ 8,300.00
Embankment Slide	W: 2000mm H: 2000mm	Description: Stainless Steel Slide Product Number: CCC 712001-20300 Supplier: Kompan		Warranty Panels: Lifetime Post: 10 Years Spare parts guaranteed 10 Years	1	\$ 73,500.00
Custom Mountaineers Rope	H: 2000mm	Description: Mountaineers Climbing Rope Product Number: COROCORD 16-2050-2C1 Supplier: Kompan	T <sub>1</sub>	Warranty Corocord Rope: 10 Years Post: 10 Years Plastic Activities: 5 Years Spare parts guaranteed: 10 Years		\$ 22,000.00
Softfall climbing aids	W: 400mm H: 400mm	Description: Softfall lumps on mound		Warranty Mechanical and chemical integrity Durapol-28 EPDM for a period of 5 years	1	\$ 6,500.00
In-ground Trampoline	<b>D</b> : 1750mm	Description: Round model in-ground trampoline Product Number: Z-1310 - 02 Supplier: Moduplay			Approx 4-7	\$ 400.00
Timber balancing beams and steppers	Dimensions vary	Description: Timber balancing beams and steppers Supplier: Timber Creations		Life span: In-Ground: 15 - 25 yrs Above ground: more than 40 yrs	3 Multiple	\$ 10,000.00
Playground Fence	H: 1200mm L: 1500mm	Description: 1200mm high flat top playground fence Panel length: 2400mm Finish: Polyester powder coat (black) to AS4605 Rail size: 40 x 40 x 1.6mm Post size: 65 x 65 1800mm long (min) SHS Picket spacing: 87mm (19mm dia) Material: Pre galvanised steel to AS1450 Fixing: Concrete footing to engineer's detail		Warranty 10 year colour warranty	мицие	
Softfall Rubber		Description: Ethylene Propylene Diene Monomer (EPDM) granule rubber softfall Thickness: to Critical Fall Height requirements Colour: TBC Rubber softfall is to be certified to AS 4422 -2016.		Warranty Mechanical and chemical integrity Durapol-28 EPDM for a period of 5 years		\$450 per lm \$350 per m2

Christie BBQ L: 1900mm W: 1150mm H: 860mm Description: Double All-access Barbecue Finish: Stainless Steel Warranty 2 year warranty Witter Bin Enclosure L: 1165mm W: 660mm H: 1190mm Description: Bondi Bin Housing Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench L: 2100mm W: 630mm H: 790mm Description: Terrain seat Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum Fixing: Surface fixed	3	\$	12,000.00
Litter Bin Enclosure  L: 1165mm W: 660mm H: 1190mm H: 1190mm  Description: Bondi Bin Housing Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench  L: 2100mm W: 630mm H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Warranty Syear warranty Syear warranty		\$	12,000.00
Litter Bin Enclosure  L: 1165mm W: 660mm H: 1190mm W: 660mm H: 1190mm  Description: Bondi Bin Housing Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench L: 2100mm W: 630mm H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Warranty Syear warranty Syear warranty		\$	12,000.00
W: 660mm H: 1190mm Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench U: 2100mm W: 630mm H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum		\$	12,000.00
W: 660mm H: 1190mm Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench L: 2100mm W: 630mm H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum		\$	12,000.00
W: 660mm H: 1190mm Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench U: 2100mm W: 630mm H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum		\$	12,000.00
W: 660mm H: 1190mm Supplier: Botton and Gardiner Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench U: 2100mm W: 630mm H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum	3		
H: 1190mm  Finish: sheet steel, zinc primed and powdercoated Colour: Black powdercoat and Australian Hardwood  Timber Bench  L: 2100mm W: 630mm H: 790mm W: 630mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Warranty Syear warranty	3		
Timber Bench  L: 2100mm W: 630mm H: 790mm W: Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Colour: Black powdercoat and Australian Hardwood  Warranty Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum	3		
Timber Bench  L: 2100mm  W: 630mm  H: 790mm  W: 630mm  H: 790mm  Description: Terrain seat Supplier: Botton and Gardiner Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum  Warranty S year warranty	3		
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W: 630mm  H: 790mm  Supplier: Botton and Gardiner  Finish: Hot-dip galvanised mild steel powdercoated,  Colour: Black, Battens: Spotted Gum	3		
W: 630mm  H: 790mm  Supplier: Botton and Gardiner  Finish: Hot-dip galvanised mild steel powdercoated,  Colour: Black, Battens: Spotted Gum	3	١.	AN ANDERSON MADE
W: 630mm  H: 790mm  Supplier: Botton and Gardiner  Finish: Hot-dip galvanised mild steel powdercoated,  Colour: Black, Battens: Spotted Gum	1	\$	5,000.00
H: 790mm Finish: Hot-dip galvanised mild steel powdercoated, Colour: Black, Battens: Spotted Gum	1		
Colour: Black, Battens: Spotted Gum			
Fixing: Surface fixed			
1 1 1			
		١,	2 500 00
	20	\$	3,500.00
Picnic Setting Varies Description: Terrain Picnic Setting Warranty			
Supplier: Botton and Gardiner 5 year warranty			
Finish: Hot-dip galvanised mild steel powdercoated,			
Colour: Black, Battens: Spotted Gum			
Fixing: Surface fixed			
	4	\$	5,500.00
Timber Shelter L: 4000mm Description: Custom shelter		3	3,300.00
W: 4000mm Materials: Hardwood timberposts - dark stain. Colourband			
THE PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADD			
Fixings: Hot-dipped galvanised brackets and fixings			
Installation: Bolt down post fixing to manufacturer's			
specification			
	3		\$80,000-\$12,5000
Playground Shade Sails Structure: Hypar Shade Sails Warranty			700,000 712,5000
Heights: Minimum 2.5m above accessible parts of Shade Australia: 10 Years Pro	rata		
equipment and 1.5m above non-accessible parts	I		
Steelwork: CHS (round) posts with anti-climbing devices	Adom.		
Surface Coating: Hot dipped galvanised post			
Footings: Bored piers to be certified by suitable structural			
engineer			
Cover: Architec 400 with minimum 15yr warranty against			
UV degradation. UV rating of a minimum of 90%. All fittings			
are rated galvanised chain. No turnbuckles wire slings.			
Colours: TBC			
TANKE COUNTRY		\$	80,000.00
FITNESS EQUIPMENT  Eitners Station Varies Description: Urban fit Trakko - Rody "Byron"			
Fitness Station Varies Description: Urban fit Trekko - Body "Byron"			
UFT- 3616			
Materials: Steel			
	1	\$	16,000.00
Jump Box Varies Description: Urban fit Trekko - Jump Box			
UFT- 3609			
Materials: Steel			
	1	\$	3,000.00
Static Bench Varies Description: Urban fit Trekko - Static Bench			
UFT-3601			
Materials: Steel			
	1		
			3,400.00

#### Note:

Costs provided are approximate only and informed by current supplier costs (February 2020). These costs are subject to change based on supply, lead times, and availability of products, construction methodology, final design and Council requirements.



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		2021	2022	2	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		2034	2035
Plane																		
Swings													\$ 1,000					
Explorer Dome															\$ 5,000			
Embankment Slide																		
Custom Mountaineers Rope									\$ 1,500			\$ 1,500						
Softfall climbing aids								\$ 2,000						\$ 2,000				
In-ground Trampoline											\$ 1,000				\$ 10,000			
Timber balancing beams and steppers																		
Playground Fence															\$ 2,000			
Softfall Rubber										\$ 3,000								\$ 50,000
Christie BBQ	\$ 1	,500	\$ 1,500	\$	1,500	\$ 1,500	\$	1,500	\$ 1,500									
Litter Bin Enclosure				\$	1,000			\$ 1,000			\$ 1,000			\$ 1,000				
Timber Bench				\$	1,000			\$ 1,000			\$ 1,000			\$ 1,000				
Picnic Setting				\$	1,000			\$ 1,000			\$ 1,000			\$ 1,000				
Timber Shelter							\$ 2,000					\$ 2,000						\$ 1,000
Playground Shade Sails																\$ 4	10,000	
Fitness Station						\$ 500							\$ 500					
Jump Box						\$ 500							\$ 500					
Static Bench						\$ 500							\$ 500					
<u>Total</u>	\$ 1	,500	\$ 1,500	\$	4,500	\$ 3,000	\$ 3,500	\$ 6,500	\$ 3,000	\$ 4,500	\$ 5,500	\$ 5,000	\$ 4,000	\$ 6,500	\$ 18,500	\$ 4	1,500	\$ 52,500

#### Note:

Costs provided are approximate only and informed by current supplier costs (February 2020). These costs are subject to change based on supply, lead times, and availability of products, construction methodology, final design and Council requirements.

