Biodiversity Garden

Australian Museum

plans

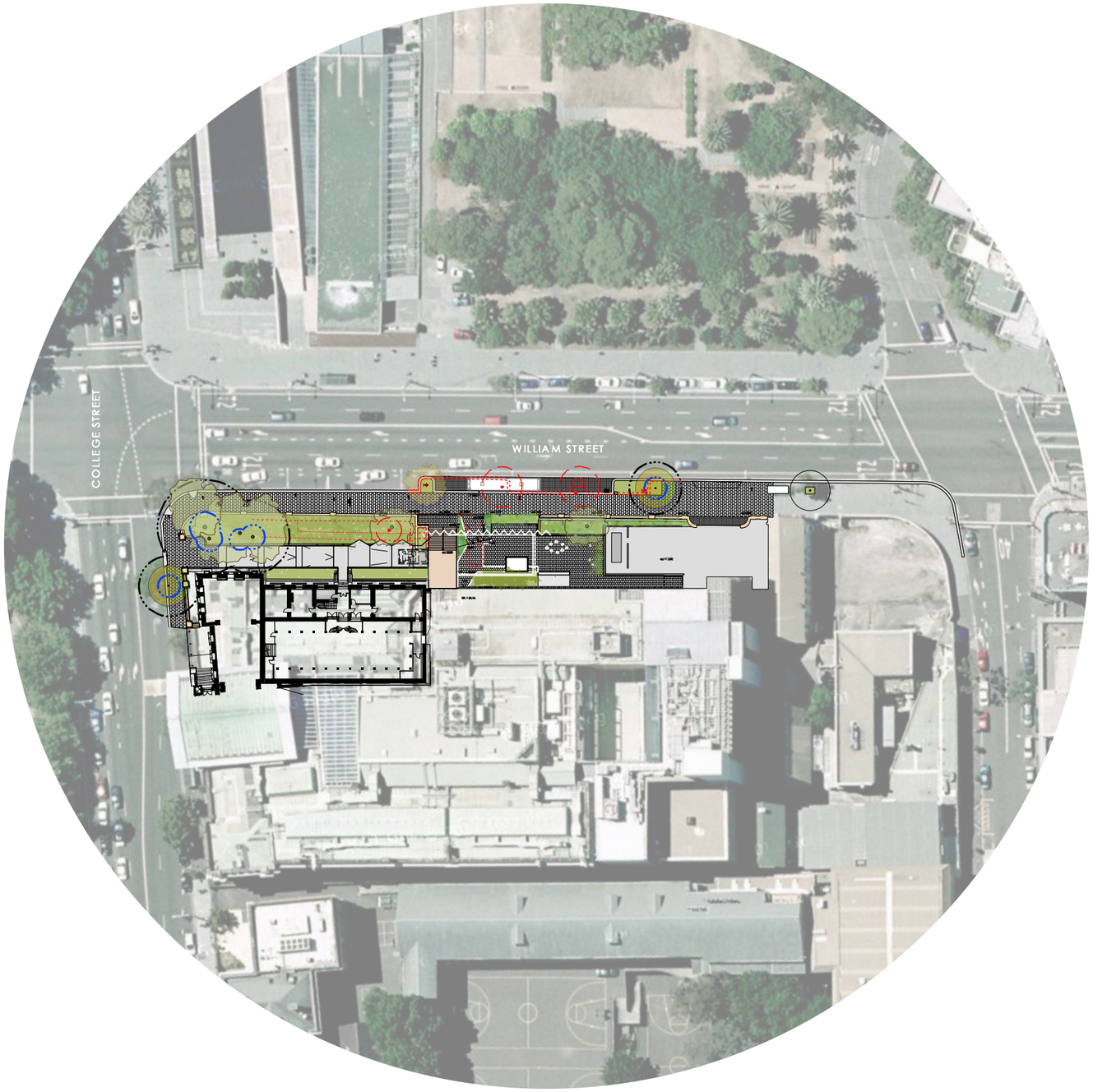
DA01	context plan
DA02	landscape statement
DA03	landscape concept plan - crystal hall entry
DA04	landscape concept plan - biodiversity garden

elevation & sections

DA05	northern elevation 01 - crystal hall & biodiversity garden
DA06	section 01 - group entry to lower ground & basement
~~DA07~~	~~section 02 - seating + frog pond~~ DELETED
~~DA08~~	~~section 03 - frog pond east~~ DELETED
DA09	section 04 - crystal hall entry
DA10	section 05 - crystal hall entry

planting

DA11	preliminary species list
DA12	preliminary species list
DA13	plant schedule



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NEESON MURCUTT ARCHITECTS

Date	Issue	Revision
13.09.18	for development application	A
17.01.19	revised SSDA	B

Australian Museum

Biodiversity Garden - context plan • scale 1:1000 @ A3 • January 2019

for the Australian Museum

sue barnsley design
landscape architecture
studio 102 120 Bourke Street Woolloomooloo 2011 email: sue@suebarnsleydesign.com

DA 01

Biodiversity Garden

Australian Museum

Australian Museum
Biodiversity Garden

the proposal

1 The landscape proposal is in two key parts.
A new group entry to the Museum and associated public domain works
The proposal modifies the Biodiversity Garden beneath the Crystal Hall to provide a new group entry to the Parkes Farmer Building at basement level and disabled access to the internal lift for visitors. As part of the building upgrade a 4.2metre fire egress path is required from the forecourt to William Street. To facilitate access the kiosk will be relocated parallel to the Parkes Farmer Building to ensure clear site lines and a continuous path of travel to the new entry. The work also includes amendments to the public domain that incorporate a dedicated bus
drop off and pick up bay for schools and other group visitors. Two trees will require removal for these works (T9+10).

2 New landscape work to the Western Frontage of the Museum on William Street
As part of the Crystal Hall Development Approval, proposals included the removal of a timber revetment along the western frontage to William Street, regrading of this garden including the removal of one tree (T7) and substantial replanting. These works were not undertaken as part of the building works and this proposal has been revived in the current State Significant Development Application.

access from the street

The steep gradient of the footpath on William Street makes equal access via College Street to the west and Yurong Street to the east impossible. The colocation of a bus stop on grade with the group entry, while not achieving compliant cross falls of <1:40, makes it possible for visitors in wheelchairs and with ambulatory concerns to be more easily assisted to the group entry. This arrangement offers an operational rather than a fully compliant solution for group access.

The provision of the bus stop on grade with the group entry to the Museum will result in the removal of four vehicular parking bays along with the pavement extension and bike parking racks in this location. Five bike racks have been proposed as part of the new works. Localised kerb and services adjustments will be required not only to reconfigure the bus parking bay but also to adjust the location of one replacement street tree. The proposed street tree will define the western end of the bus drop off and pick up bay and will be supplied and installed in accordance with the City's guidelines. Footpath levels remain unaffected.

materials

The works associated with the Biodiversity Garden are discrete interventions which minimise disruption to the forecourt. No new materials will be introduced within this space. Stone pavements will be adjusted and made good, enabling the new building entry and widened walkway from William Street, while the existing steel balustrades and gates will be adjusted to suit this widened threshold.

planting

One metre of planting will be removed along the southern edge of the garden to best situate the new kiosk. Small shade loving plants and ground covers from the Sydney Sandstone vegetation community will infill areas affected by the new works on this perimeter and beside new pavements. A Sydney Red Gum, *Angophora costata* is proposed as compensatory planting for the removal of tree T10 and will be installed close to this location but within the Museum curtilage.

Along the western frontage of the Museum the regraded embankment will be planted with Gymea and/ or Spear Lilies, *Doryanthes excelsa/ Doryanthes palmeri,* the Blue Flax Lily, *Dianella caerulea* and the Dusky Coral Pea, *Kennedia rubicunda.* The removal of the Flowering Gum, Tree T7 will be compensated with planting of a Sydney Red Gum, *Angophora costata* to match the trees at the College Street Entry.

KEY

ex + 20.00 existing RL

+ 20.00 proposed RL

T1: existing *Platanus x hybrida* retained & protected

existing trees to be retained & protected
T2: 1 x *Eucalyptus sp.*
T3-5: 3 x *Angophora costata*
- SRZ shown dashed blue
- TPZ shown dashed black
- remedial pruning as required
- refer aborist report

proposed Platanus x acerifolia 200Lt

proposed Angophora costata 200Lt

existing tree to be removed
- T7 *Corymbia ficifolia*
- refer arborist report

demolition

existing paving

existing street lights

existing public telephone

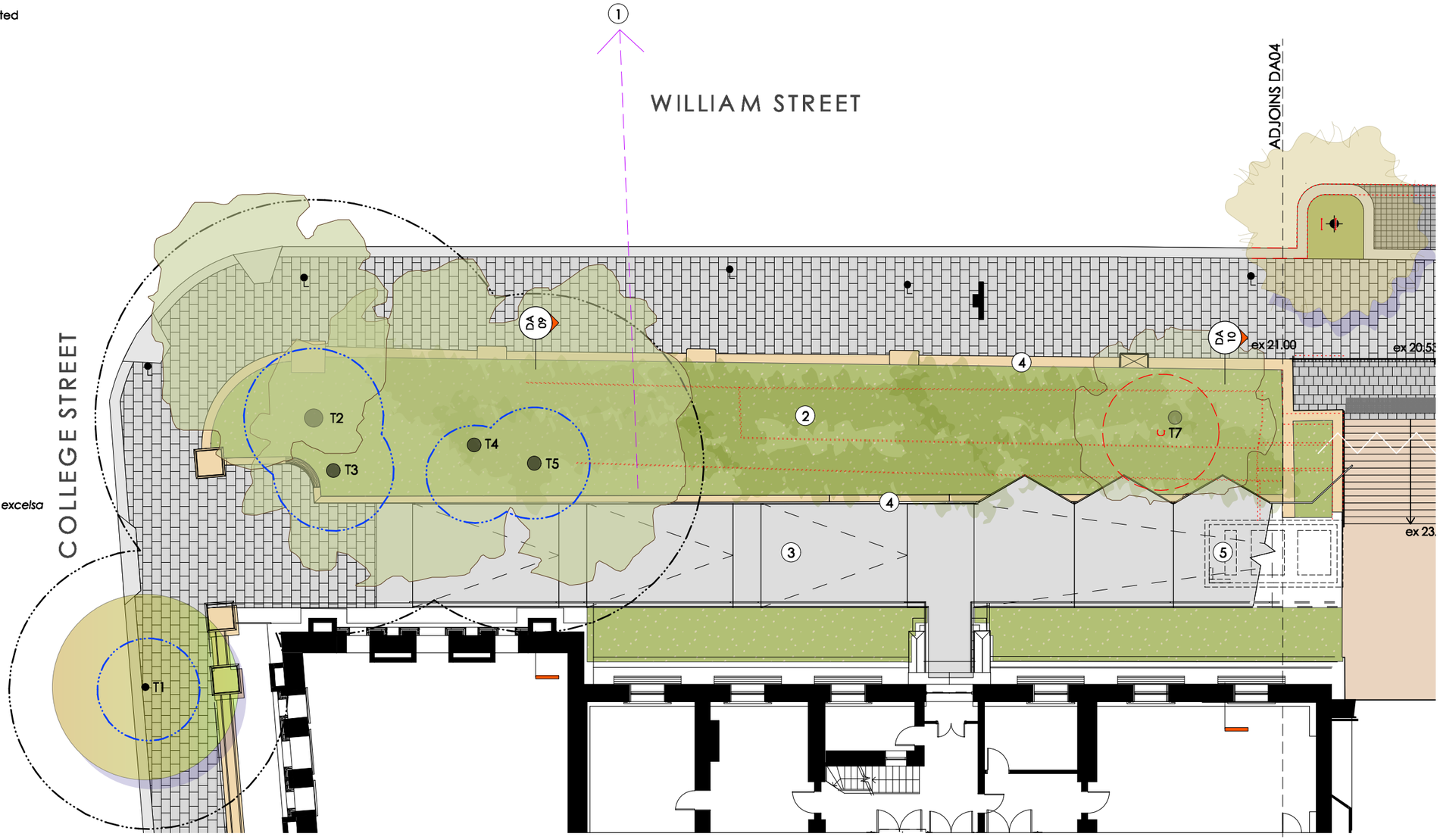
1 views to cathedral remain unimpeded

2 existing timber retaining walls to be removed
- all planting to be replaced except *Doryanthes excelsa*
- embankment regraded and replanted

3 existing Crystal Hall entry ramp

4 existing sandstone walls to be retained

5 existing services under ramp



0 5 10 M

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Australian Museum

Crystal hall entry - landscape concept plan • scale 1:200 @ A3 • January 2019

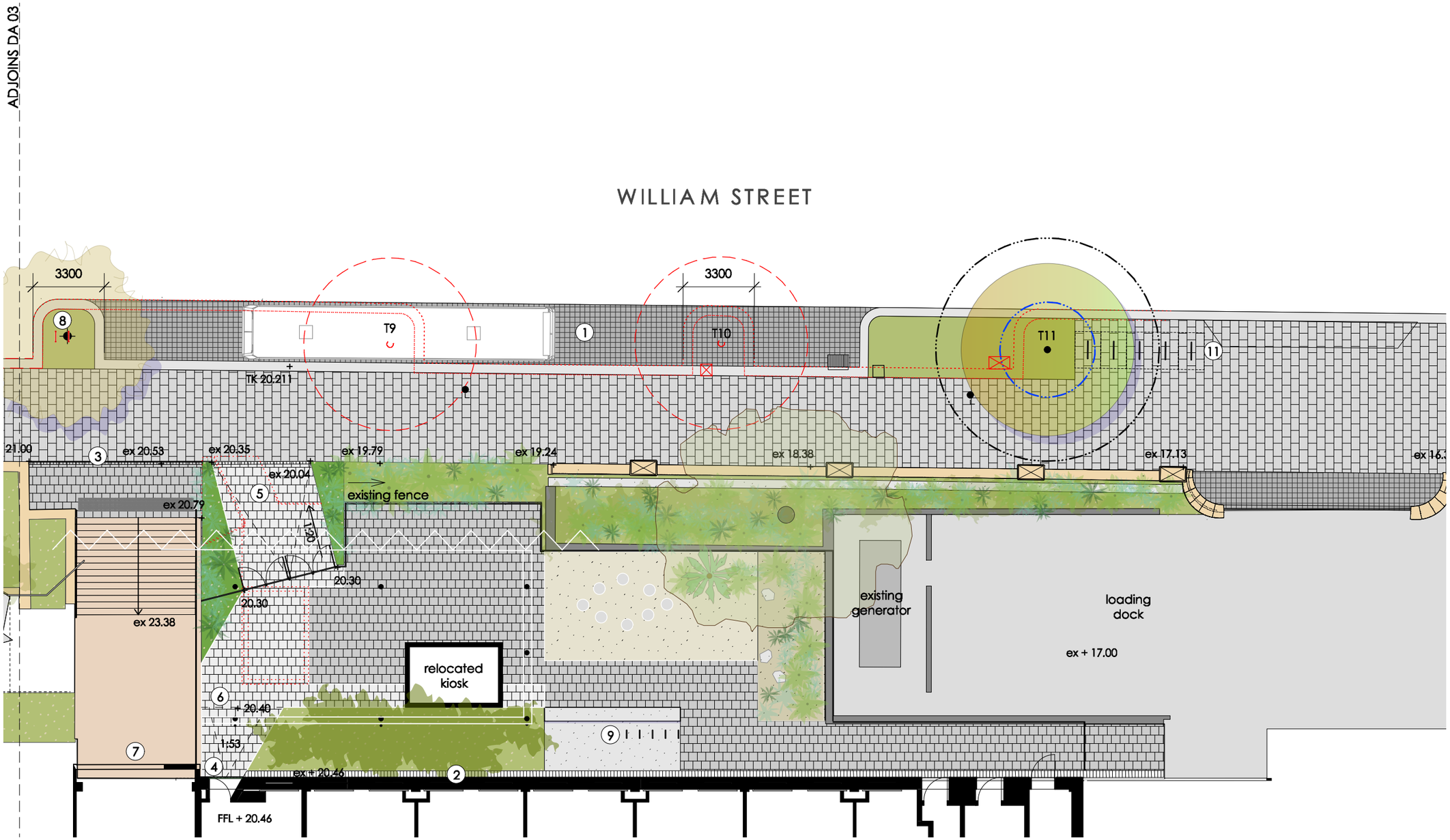
for the Australian Museum

sue barnsley design
landscape architecture
studio 102 120 Bourke Street Woolloomooloo 2011 email: sue@suebarnsleydesign.com

DA 03

KEY

ex + 20.00	existing RL
+ 20.00	proposed RL
	T11: existing *Platanus x hybrida* retained & protected - SRZ shown dashed blue - TPZ shown dashed black
	proposed Platanus x acerifolia (1) 200LT - in kerbside planter to CoS standard details
	proposed Angophora costata 200Lt
	T9-T10: existing *Platanus x hybrida* trees removed
	existing services to be relocated to eastern planter
	relocated services
	existing stormwater relocated
	relocated stormwater
	demolition & relocation works
	existing CoS paving
	existing museum paving
	new paving
	new planting
	existing street lights
1	proposed bus drop off - 14.5m rigid bus - granite cobbles to CoS standard details - existing parking bays removed (4)
2	existing grated drain extend to back of planting
3	existing grated drain to street
4	proposed grated drain at group entry
5	4.2m egress with lockable gates new fencing to make good
6	basement group entry
7	level one entry
8	existing bicycle racks removed (2)
9	existing bicycle racks retained (5)
10	proposed bicycle parking bay (5)



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0 5 10 M

Australian Museum

Biodiversity garden - landscape concept plan • scale 1:200 @ A3 • January 2019

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landscape architecture
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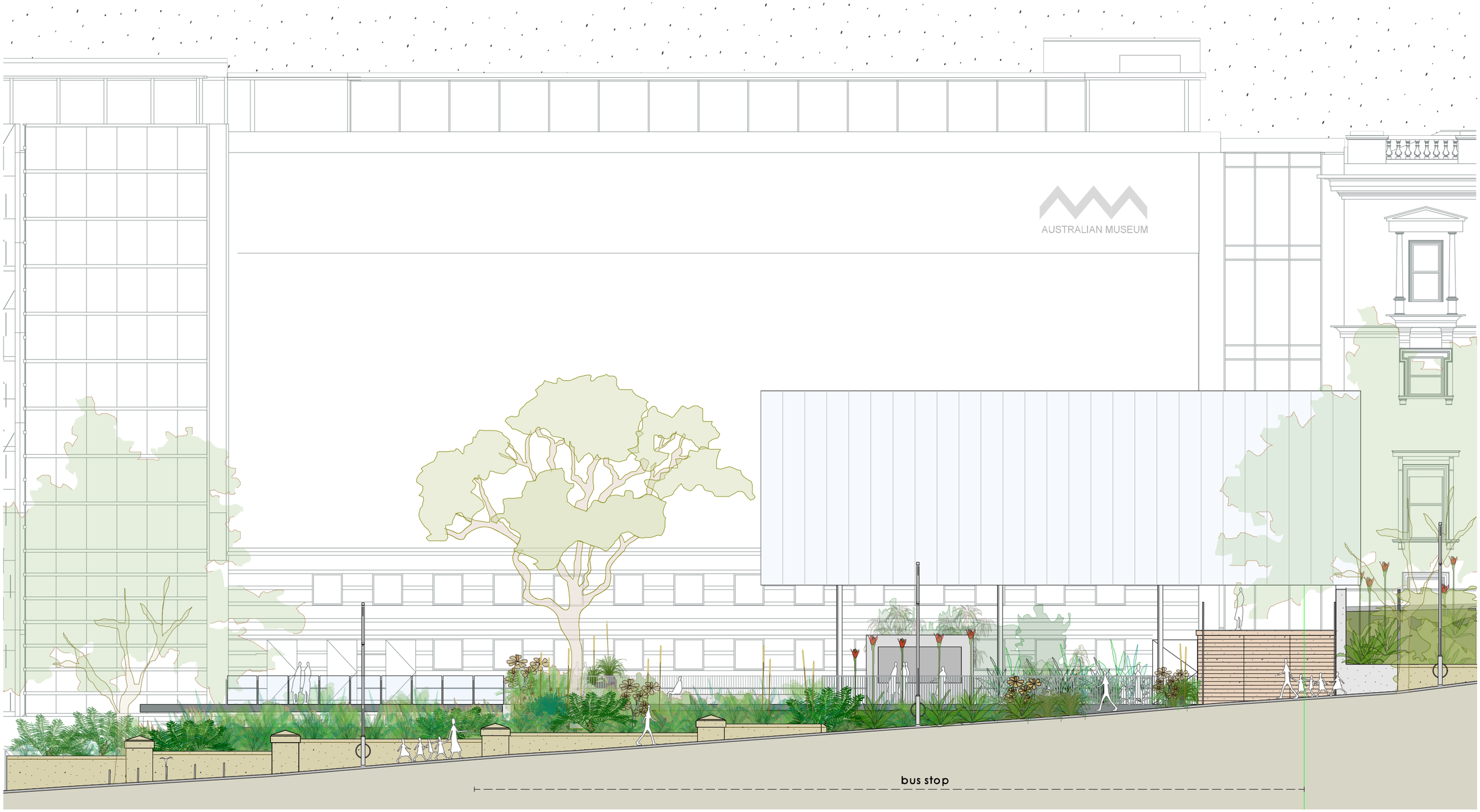
DA 04



northern elevation crystal hall & biodiversity garden
Scale: 1:150

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Northern elevation 01 Crystal hall & Biodiversity garden • scale 1:150 @ A3 • January 2019

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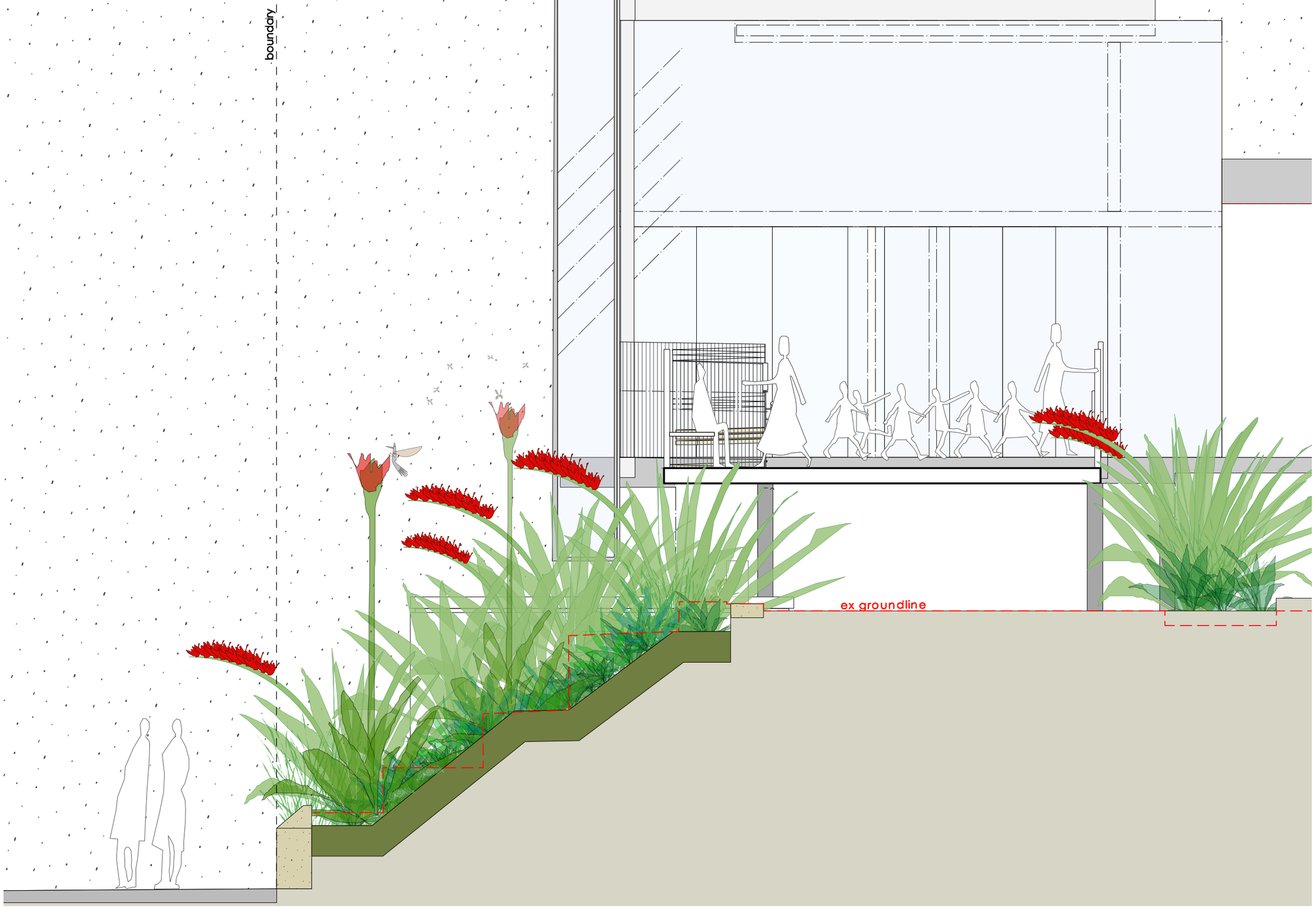
DA
05



crystal hall entry
Scale: 1:50

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0 1 2 M

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Crystal hall entry - section 05 • scale 1:50 @ A3 • January 2019

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studio 102 120 Bourke Street, Woolloomooloo 2011 email: sue@suebarnsleydesign.com

DA
10

crystal hall entry
Scale: 1:50

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0 1 2 M

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Crystal hall entry - section 04 • scale 1:50 @ A3 • January 2019

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landscape architecture
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DA
09

proposed drain grate

existing planter - reduced

public entry & fire egress - max 1:20
adjusted fence & entry gate

William Street

group entry to lower ground & basement
Scale: 1:50

0 1 2 M

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Biodiversity Garden - section 01 • scale 1:50 @ A3 • January 2019

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DA
06

CRYSTAL HALL ENTRY

BIODIVERSITY GARDEN

*edible/educational

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Preliminary species list • January 2019
for the Australian Museum

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landscape architecture

studio 102, 120 Bourke Street Woolloomoolloo, 2011 email sue@suebarnsleydesign.com

DA
11

Xanthorrhoea arborea* - Grass Tree - trunk 1m - 2m flower 1.6m in late summer

Banksia robur* - Swamp Banksia - 1m - 2m - flowers cream to pale green turning rusty brown

Dendrobium speciosum* - Sydney Rock Orchid - 0.45m - flowers creamy yellow winter to spring

Arthropodium milleflorum* - Pale Vanilla Lily - 0.6 - 0.8m - flowers white to pale blue or pink in summer

Mentha satureioides* - Native Mint - 0.20m - flowers white throughout the year

Geitonoplesium cymosom* - Scrambling Lily - stems to 8 m - flowers mauve to white spring/summer

Selaginella uliginosa - Swamp Selaginella - 0.40m

Dichondra repens - Kidney Weed - 0.15m - flowers green/yellow year round

*edible/educational

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DA
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BIODIVERSITY GARDEN - PRELIMINARY PLANT SCHEDULE

Latin name	Common name	Nominal spacing mm	Schedule size	Minimum height	Mature height	Calliper
Trees						
Angophora costata	Sydney Red Gum	as shown	200L	4m	10 - 20m	60mm
Platunus x hybrida	Plane Tree	as shown	200L	4m	15 - 30m	60mm
Shrubs						
Banksia robur	Swamp Banksia	2000	25L	1.4m	1.0 - 2m	25mm
Doryanthes excelsa	Gymea Lily	2000	200mm	0.45m	2.5m	-
Doryanthes palmeri	Giant Spear Lily	2000	200mm	0.45m	3.0 - 5m	-
Xanthorrhoea arborea	Grass Tree	600	45L	0.75m	2.0m	-
Ferns + Groundcovers + Orchids						
Arthropodium milleflorum	Pale Vanilla Lily	600	140mm	0.3m	0.60 - 0.80m	-
Dianella caerulea	Blue Flax Lily	600	140mm	0.3m	0.75m	-
Dendrobium speciosum	Sydney Rock Orchid	600	20L	0.45m	0.45m	-
Dichondra repens	Kidney Weed	600	140mm	0.15m	0.15m	-
Doodia aspera	Prickly Rasp Fern	600	140mm	0.25m	0.20 - 0.40m	-
Geitonoplesium cymosum	Scrambling Lily	600	140mm	0.25m	stems to 8.0m	-
Kennedia rubicunda	Dusky Coral Pea	600	140mm	0.25m	stems to 4.0m	-
Mentha satureioides	Native Mint	300	140mm	0.20m	0.20m	-
Selaginella uliginosa	Swamp Selaginella	600	tube	0.25m	0.40m	-

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Preliminary plant schedule • January 2019
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DA
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