

Volume 3 - Appendix 3

Architectural Drawings

Prepared by H&E Architects

General Notes & Abbreviations

General Notes

The copyright of this design remains the property of H+E Architects. This design is not to be used, copied or reproduced without the authority of H+E Architects. Do not scale from drawings. Confirm dimensions on site prior to the commencement of works. Where a discrepancy arises seek direction prior to proceeding with the works. This drawing is only to be used by the stated Client in the stated location for the purpose it was created. Do not use this drawing for construction unless designated.

Coordination

Where applicable refer to and coordinate information contained in the architectural drawings, and the documentation of other consultants. Notify discrepancies between architectural and/or other consultant's documentation for direction prior to proceeding with the affected part of the works.

Specifications and Schedules

Where applicable refer to and coordinate with Falls relevant Specifications and Schedules. Written specifications and schedules take precedence to the extent of any discrepancy. Notify discrepancies between documents for direction prior to proceeding with the affected part of the works.

Detail Drawings

Unless noted otherwise, refer to detail drawings for set-out information. Drawings at the manufacturer, supplier, installer, trade larger scales take precedence over drawings name, brand name, catalogue or reference at smaller scales to the extent of any discrepancy. Notify discrepancies for direction prior to proceeding with the affected part of the works.

Execution of the works (Standards) Execute the works in compliance with the current edition of the Building Code of Australia (as amended), current editions of relevant Australian and other applicable published Standards and the relevant requirements of Local and Statutory Authorities.

Units of measurement

Unless noted otherwise: - Dimensions are shown in millimetres; and - Levels are shown in meters

To detail

Where a notation refers to an item as "...to detail" the applicable item is to be in accordance with the relevant detail to be provided by the Architect.

Materials handling and storage

Unless noted otherwise material, fixtures and fittings are to be handled, stored and installed, commisioned and maintained as applicable in accordance with the Manufacturer's current written instructions.

Structure

Foundations, footings, reinforced concrete, slabs, retaining walls, framing, bracing, tiedown and other structural elements are to be designed and constructed in accordance with the Structural Engineer's details and specifications.

Hydraulics

Stormwater drainage, waste water drainage, fresh water, gas supply and other hydraulic services are to be designed and constructed DA in accordance with the Local Authority, Statutory Authority, Hydraulic and/or Civil Works Consultant's requirements.

D?.##

Demo

Det(s)

Dia

Dim

DP

DPC

Drw(s)

ΕA

EG

EJ

Elec

Elev

Est

Ex

Exst

Ext

FCL

FF##

FFL

FG

FGL

FH

FHR

Fix

FJ

Fla

Flr

FR

Frm

FT##

FE

Eng('s)

Dwg(s)

Dr

Services (existing & proposed) Confirm location of existing under and above- Doc(s)

ground services and coordinate with the relevant service authority to ensure that services are handled in accordance with the relevant authorities instructions prior to commencement of demolition, excavation and/or construction works.

Levels

Levels shown are consistent with the datum and benchmarks shown on the associated detail survey. In most instances the surveyed Eq levels will be indicated relative to Australian Height Datum. However the existing site levels and datum are to be confirmed on site with reference to the site survey documents.

number.

Finish surfaces typically to fall as required to facilitate effective drainage.

Interpretation

"Provide" means to supply and install. "Required" means required by the contract documents or by the Local or Statutory Authorities. "Proprietary" means identifiable by naming

Standard Abbreviations

Standa	ard Abbreviations	Fur
AAP	Acoustic access panel	Fxd
Acst	Acoustic	GA
Adj	Adjustable / adjacent	Gd
AFFL	Above finished floor level	GD Clo##
Agmt	Arrangement	Gla##
Amd(t)	Amend(ed) / Amendment	Gnd
AP	Access Panel	Hd
Aprv(d/l)	Approved / Approval	Hdl
Aprx	Approximate	Hor
Arc	Architrave	HR
Arch	Architect	Ht
AS	Australian Standard	Hyd
Avg	Average	IAW
AWC	Accessible water closet	Incl
Awn	Awning	Ind
Bal	Balustrade	Ins
Bat(s)	Batten(s)	Inst
BCA	Building Code of Australia	Int
Bdy	(Property) Boundary	10
BG	Box Gutter to detail	Lev
Bhd	Bulkhead	Lvr
Bldg	Building	Man('s)
BOR	Bottom of ramp	Max
BOS	Bottom of stair	Mech
	Construction certificate	Min
Ceil	Ceiling	MR
Chg(d)	Change /changed	Mtr
Chk	Check Channel	NA
Chnl CJ		NCC
CJ	Control joint / Construction joint	Nom
CL	to aprvd detail / Ceiling joist Centre line	NTS
Clr	Clear / Clearance / closer	OA
Cnr	Corner	Obs
Col	Colour / Column	OH
Con('s)	Consultant('s)	Orig
Cont('s)	Contractor('s)	OS
Cor	Corrugated / Cornice	Own
COS	Check / confirm on site	PA
CP	Cover plate	Pav
Crs	Centres	PCA PF
Csk	Countersink	PFC
CT##	Ceiling type reference (## refer	PIt
	to applicable schedule)	PM
Ctr	Centre / contour	Prelim

Door (?: Level ##: Number	Proj	Project
· ·		-
refer to schedule)	Prop	Proposed
Door	Prt	Part / Partition
Development Application /	Qty	Quantity
	•	
Delayed action (door closer)	Rad	Radius
Demolish and remove from site	RCP(s)	Reflected Ceiling Plan(s)
	· · /	2
Detail(s)	Reb	Rebate
Diameter	Recyc	Demolish, stockpile and recycle
	liceje	
Dimension		into the works as req
Documentation, documents	Ref	Reference, refer (to)
Down pipe	Rem	Remove, take care to avoid
Damp proof course		damage to substrate materials
		•
Drawer(s)		and structure, and dispose of
Drawing / drawings	Reo	Reinforced / reinforcement
· · · ·		
Equal angle	Rep	Replace, UNO to match exst
Eaves Gutter	•	Required / Requirement(s)
	Req(s)	
Expansion joint to aprvd detail	Rev	Revision
Electrical	RFR	Recover without damage,
Elevation		protect, store and prepare for
Engineer('s)		reuse within the works as req
e ,		•
Equal	RFO	Recover without damage for the
Estimated		Owner to remove
From / out of or existing when	HS	Rectangular hollow section
referring to building elements	RI	Rough in (cap and/or terminate
·		
Existing		as reg for future connection)
External / exterior	RL	,
	RL	Reduced / relative level (to
Finished ceiling level		datum)
•	DT##	,
Fire escape / Fire extinguisher	RT##	Roof type (## refer to schedule)
Floor finish (## refer to	RWO	Rain Water Outlet
applicable schedule)	S96	Section 96 Application to amend
Finished floor level		a Development Consent
	a	•
Fixed glazing	Schd(s)	Schedule(s)
Finished ground level	SDr	Surface drainage
Fire hydrant	Sect	Section
Fire Hose Reel	Sal	
	Sel	Selected typically referring to
Fixing / fixings		a finish to be selected by the
Floor joist		archiect, client, PA or PM
Flashing	Serv(s)	Services
•	• • •	
Floor	SFL	Structural floor level
Fire rated	SHS	Square hollow section
		•
Frame / framing	Sk	Sketch
Floor type (## refer to schedule)	Skt	Skirting
		•
Furring (channel)	SI	Seal / sealant
Fixed	SL	Surface level / Shadow-line
General Arrangement	Sld	Sliding
Grid	Smk	Smoke
		Ctair naaina
Grated Drain	SN	
Grated Drain	SN	Stair nosing
Grated Drain Glass / Glazing type reference	SN Sof	Soffit
Glass / Glazing type reference	Sof	Soffit
Glass / Glazing type reference (## refer to schedule)	Sof Spec(s)	Soffit Specification(s)
Glass / Glazing type reference	Sof	Soffit
Glass / Glazing type reference (## refer to schedule) Ground	Sof Spec(s) SR	Soffit Specification(s) Service(s) riser
Glass / Glazing type reference (## refer to schedule) Ground Head	Sof Spec(s) SR SSD	Soffit Specification(s) Service(s) riser Sub-surface drainage
Glass / Glazing type reference (## refer to schedule) Ground	Sof Spec(s) SR	Soffit Specification(s) Service(s) riser
Glass / Glazing type reference (## refer to schedule) Ground Head Handle	Sof Spec(s) SR SSD SSL	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level
Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal	Sof Spec(s) SR SSD SSL Std	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard
Glass / Glazing type reference (## refer to schedule) Ground Head Handle	Sof Spec(s) SR SSD SSL	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level
Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal Hand Rail	Sof Spec(s) SR SSD SSL Std Struct	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard Structure / Structural
Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal Hand Rail Height	Sof Spec(s) SR SSD SSL Std Struct SWP	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard Structure / Structural Storm water pit
Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal Hand Rail	Sof Spec(s) SR SSD SSL Std Struct	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard Structure / Structural Storm water pit
Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal Hand Rail Height Hydraulic	Sof Spec(s) SR SSD SSL Std Struct SWP	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard Structure / Structural Storm water pit To be advised (UNO generally
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Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal Hand Rail Height Hydraulic In accordance with Include / included / inclusive Indicator Insulation / Inside / Inside of Instruction(s) Internal	Sof Spec(s) SR SSD SSL Std Struct SWP TBA TBC TGSI TMb TO	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard Structure / Structural Storm water pit To be advised (UNO generally by the PA, Arch and/or Owner) To be confirmed (UNO generally by the Contractor) Tactile ground surface indicators Timber Top of
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Glass / Glazing type reference (## refer to schedule) Ground Head Handle Horizontal Hand Rail Height Hydraulic In accordance with Include / included / inclusive Indicator Insulation / Inside / Inside of Instruction(s) Internal Inspection opening Level Louvre / louvred	Sof Spec(s) SR SSD SSL Std Struct SWP TBA TBA TBC TGSI TMb TO TOG TOK TOK TOI	Soffit Specification(s) Service(s) riser Sub-surface drainage Structural slab level Standard Structure / Structural Storm water pit To be advised (UNO generally by the PA, Arch and/or Owner) To be confirmed (UNO generally by the Contractor) Tactile ground surface indicators Timber Top of Top of gutter Top of kerb Tolerance
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Sydney Opera House Lower Concourse Improvements Project No:2466 Lower Concourse, Sydney Opera House, Bennelong Point, Sydney Sydney Opera House Trust **Development Application**



Sheet Number	Sheet Name	Revision	Revision Date
49HE001-0001	Title Sheet and Drawing List	F	13/08/19
49HE001-0502	Site Plan	E	30/07/19
49HE001-1100	General Arrangement Plan - Lower Concourse - Existing & Demo	E	13/08/19
49HE001-1101	General Arrangement Plan - Lower Concourse - Proposed	F	13/08/19
49HE001-1102	General Arrangement Plan - Upper Concourse - Existing	D	26/06/19
49HE001-1103	General Arrangement Plan - Upper Concourse - Proposed	E	30/07/19
49HE001-3100	General Arrangement Elevation	E	30/07/19
49HE001-3200	Detail Plan - Opera Bar Glazing Line - Existing & Demo	D	26/06/19
49HE001-3202	Detail Plan - Opera Bar Glazing Line - Proposed	D	26/06/19
49HE001-3205	Detail Elevation - Opera Bar Glazing	D	26/06/19
49HE001-3220	Detail Plan - Shade Structure	E	30/07/19
49HE001-3221	Shade Structure - Reflected Ceiling Plan	E	30/07/19
49HE001-3225	Detail Section - Shade Structure	D	26/06/19
49HE001-3230	Detail Elevation - Shade Structure	С	26/06/19
49HE001-3231	Detail Section - Shade Structure Services	С	26/06/19

Rev Date Amendments

01 02/04/19 For Information 02 27/05/19 Preliminary

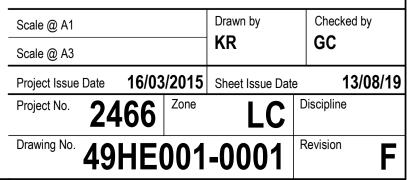
- 03 25/06/19 Development Application D 26/06/19 Development Application Issue
- E 30/07/19 Development Application Issue
- F 13/08/19 Development Application Issue



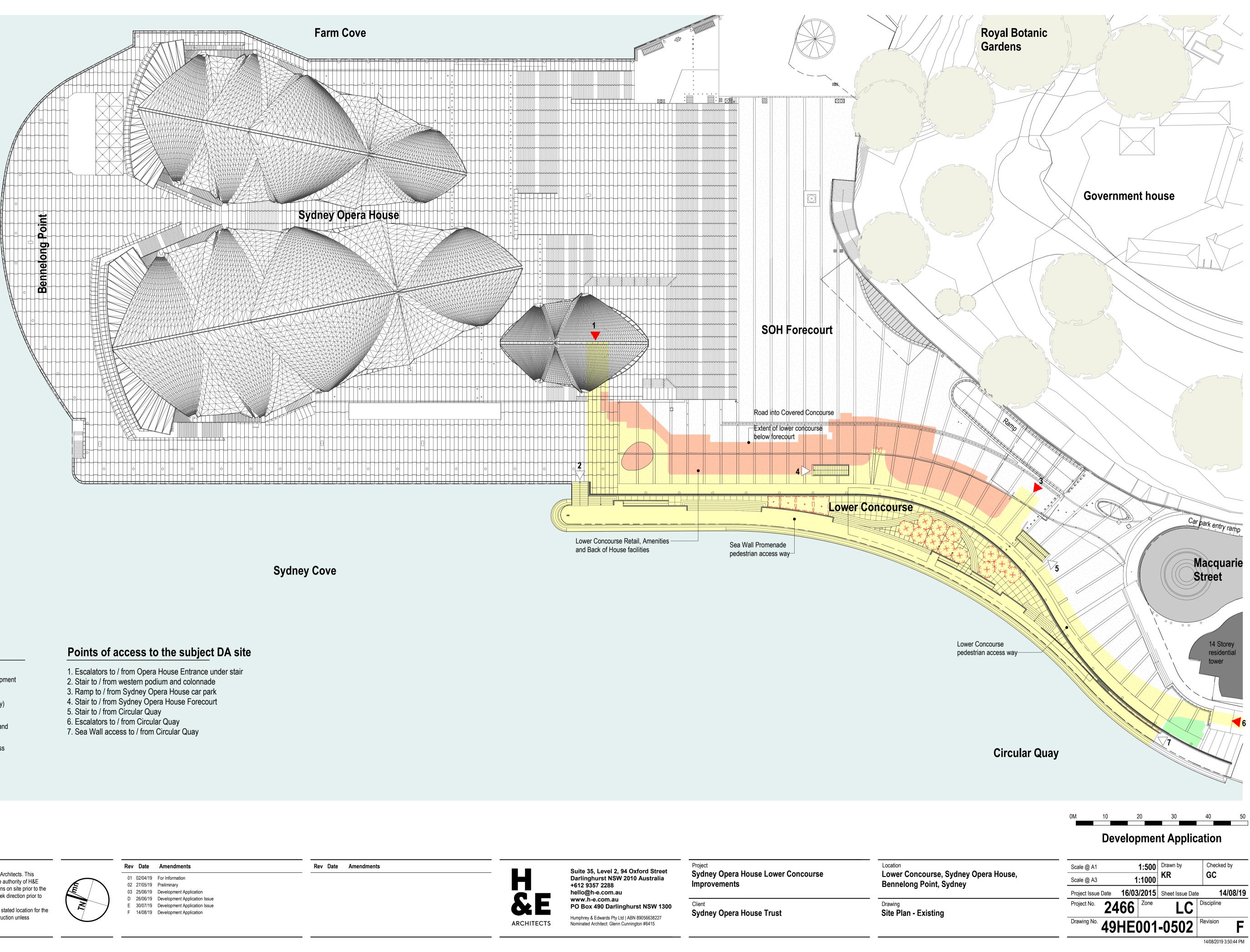
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PO Box 490 Darlinghurst NSW 1300 Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Development Application



13/08/2019 3:01:02 PM



Site Plan Legend

The extents of the plan hatched as follows represents the physical scope of this Development Application.

Proposed new building fabric (generally)

Lower Concourse Retail, Ammenities and BOH facilities

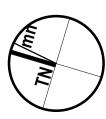
Sea Wall Promenade pedestrian access way and external seating area

Lower Concourse WC

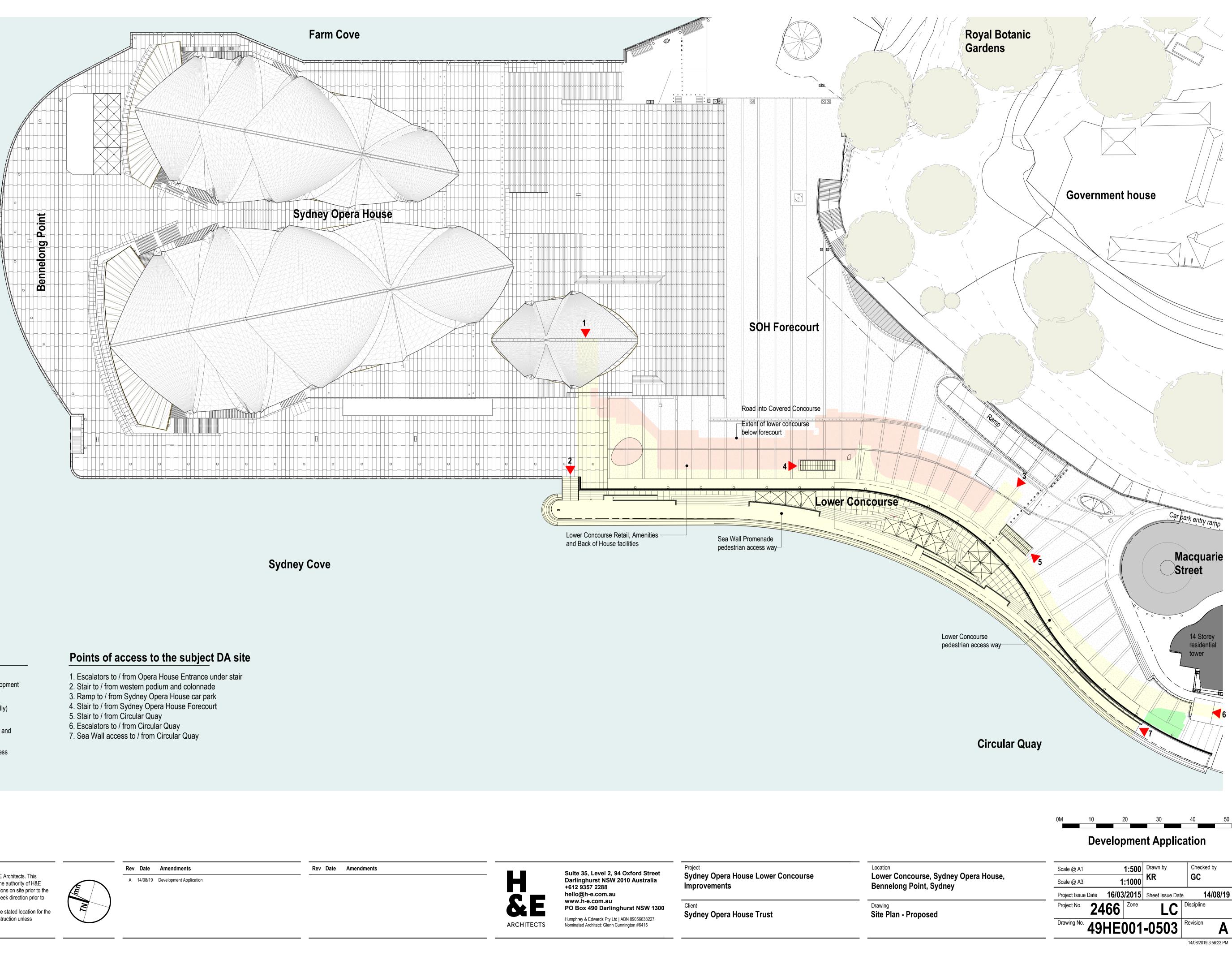
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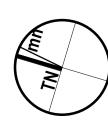
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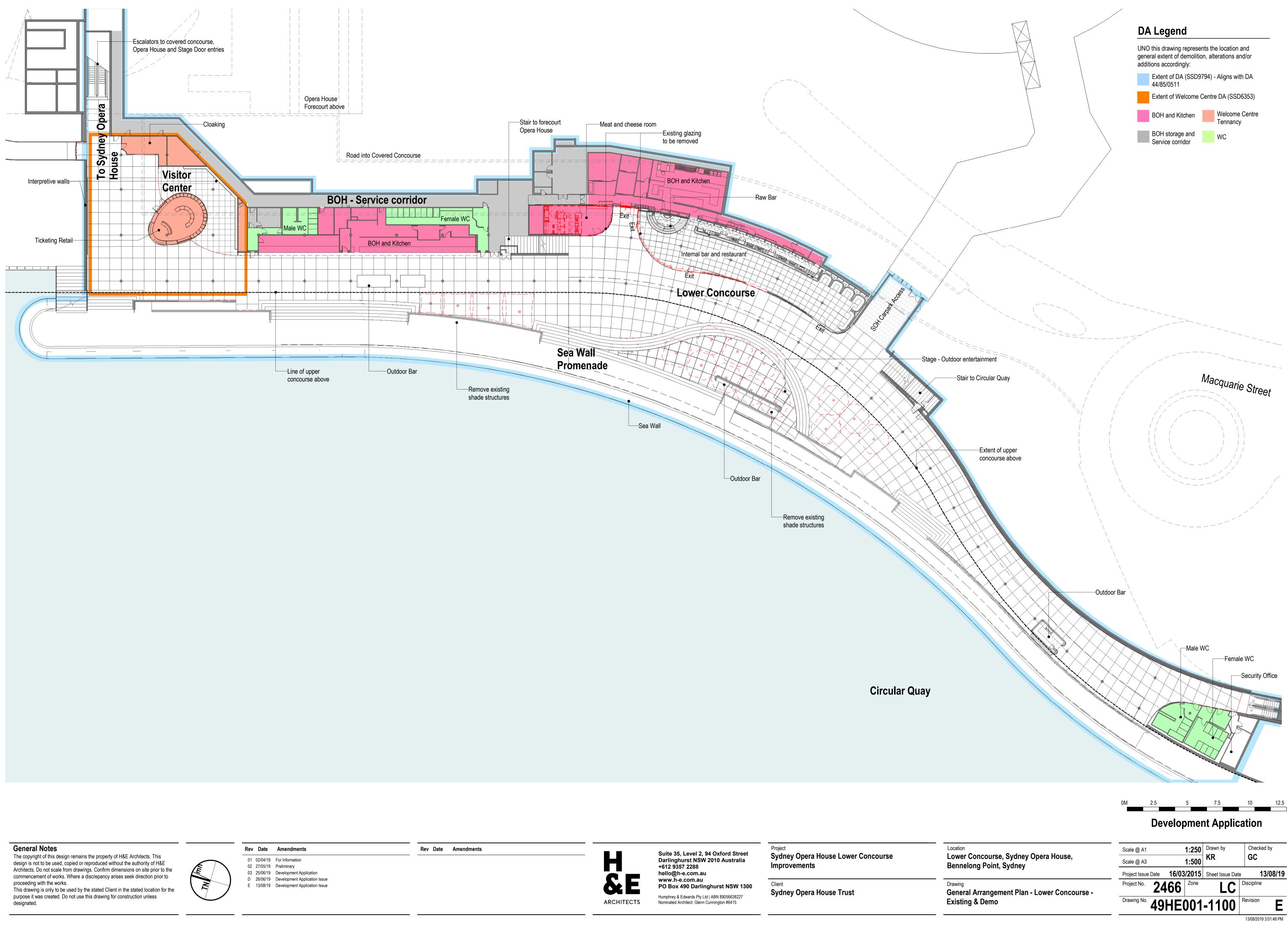
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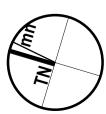
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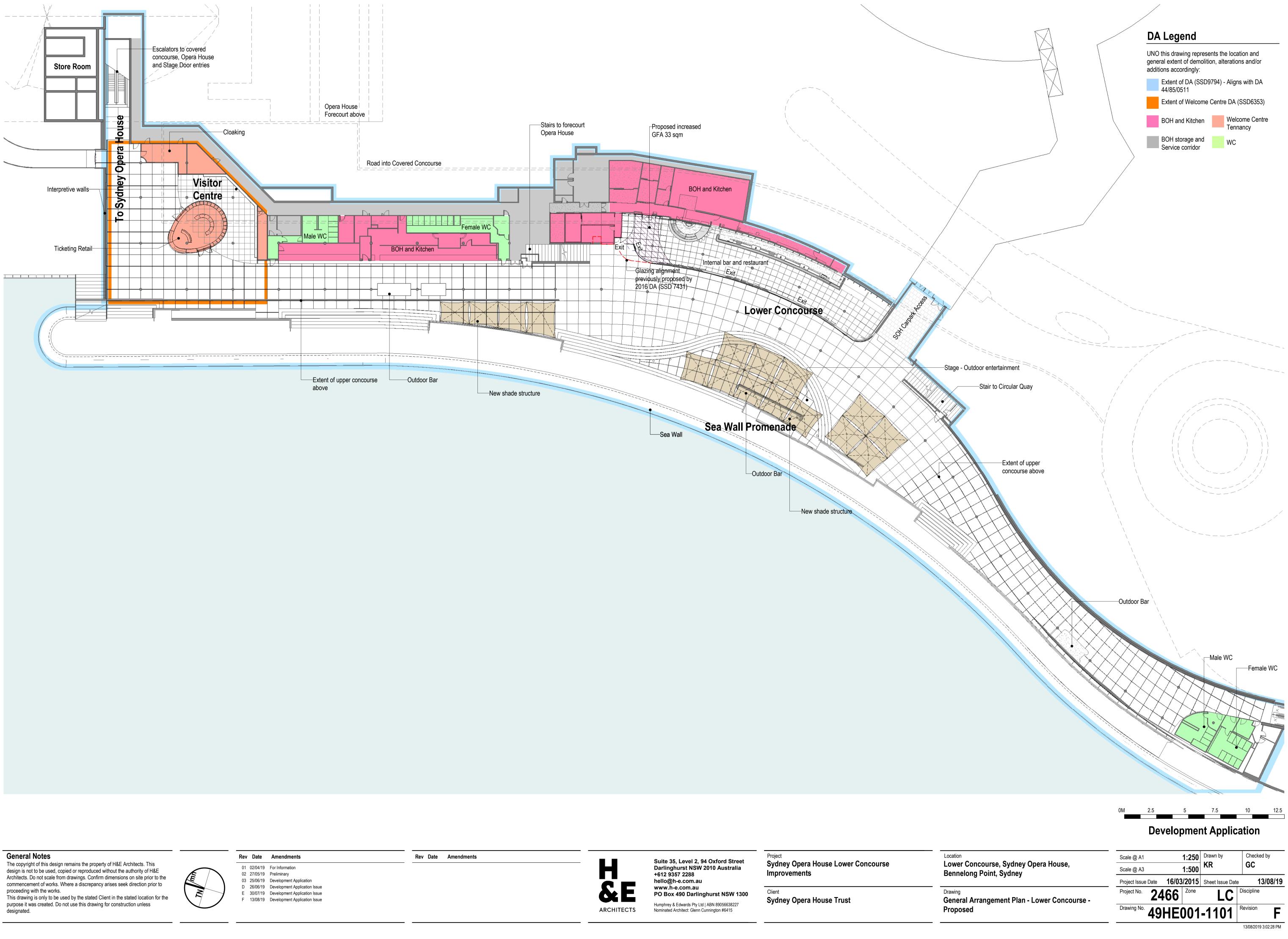


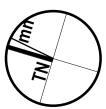




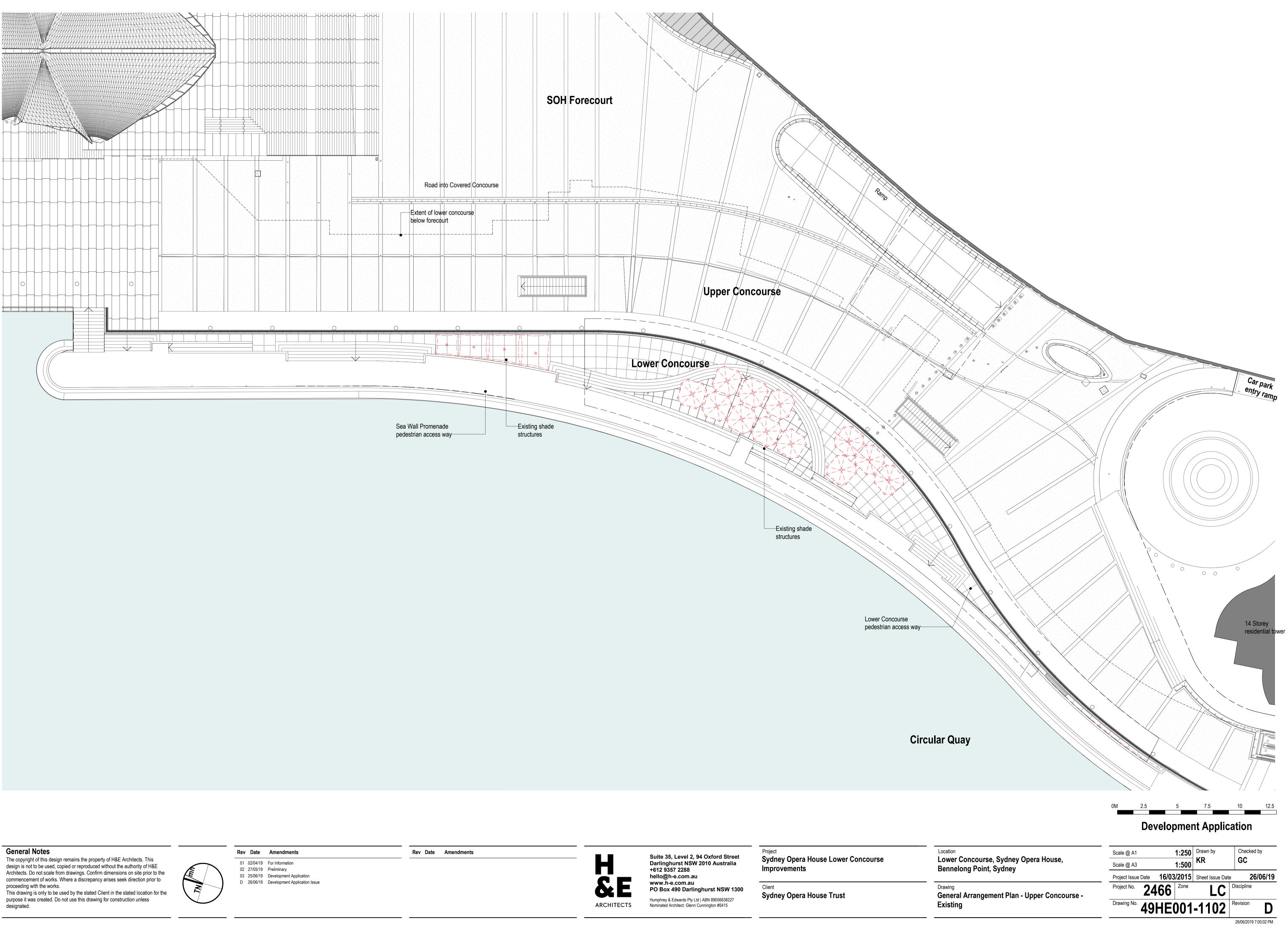


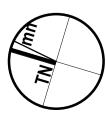




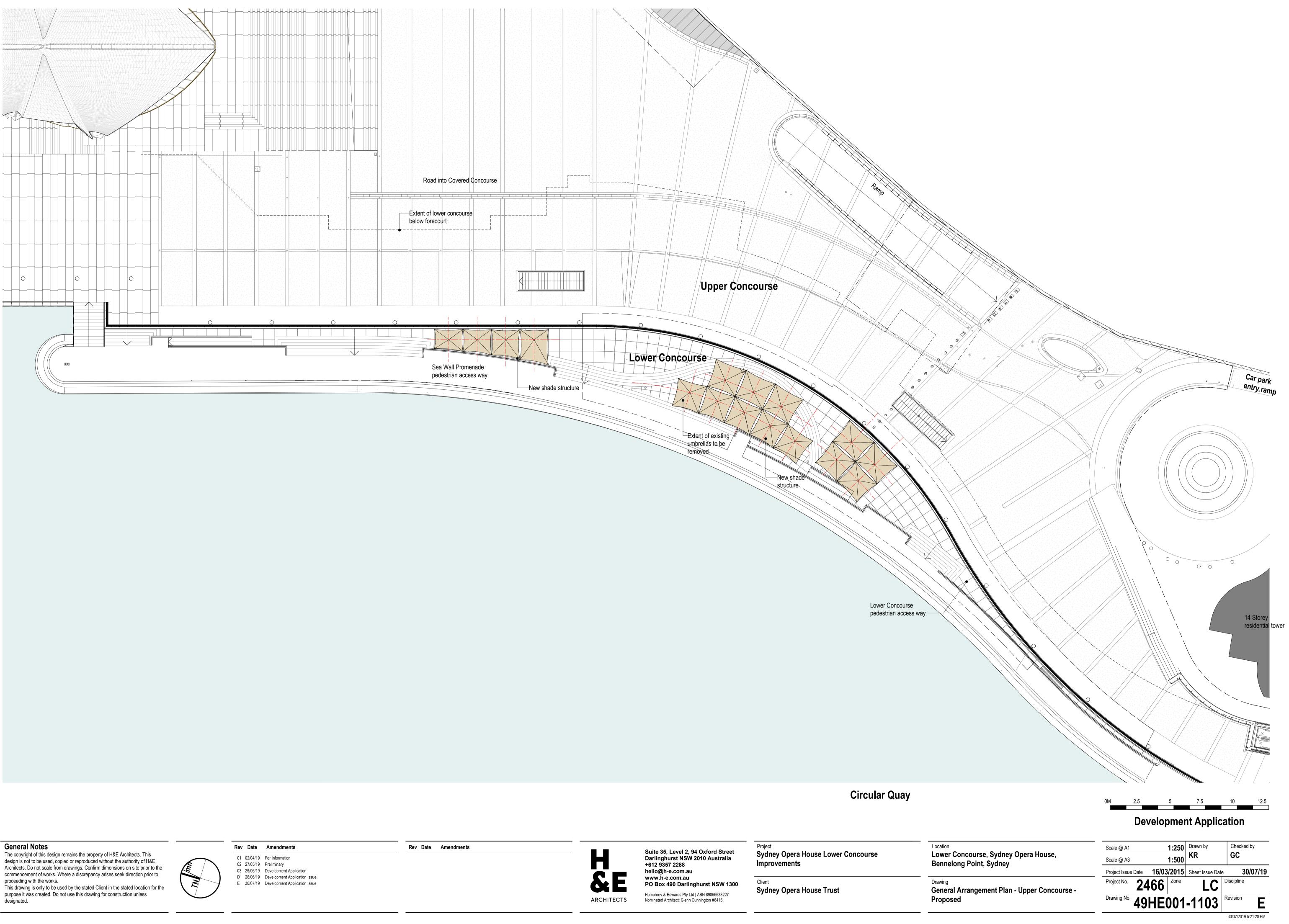


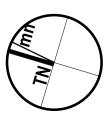




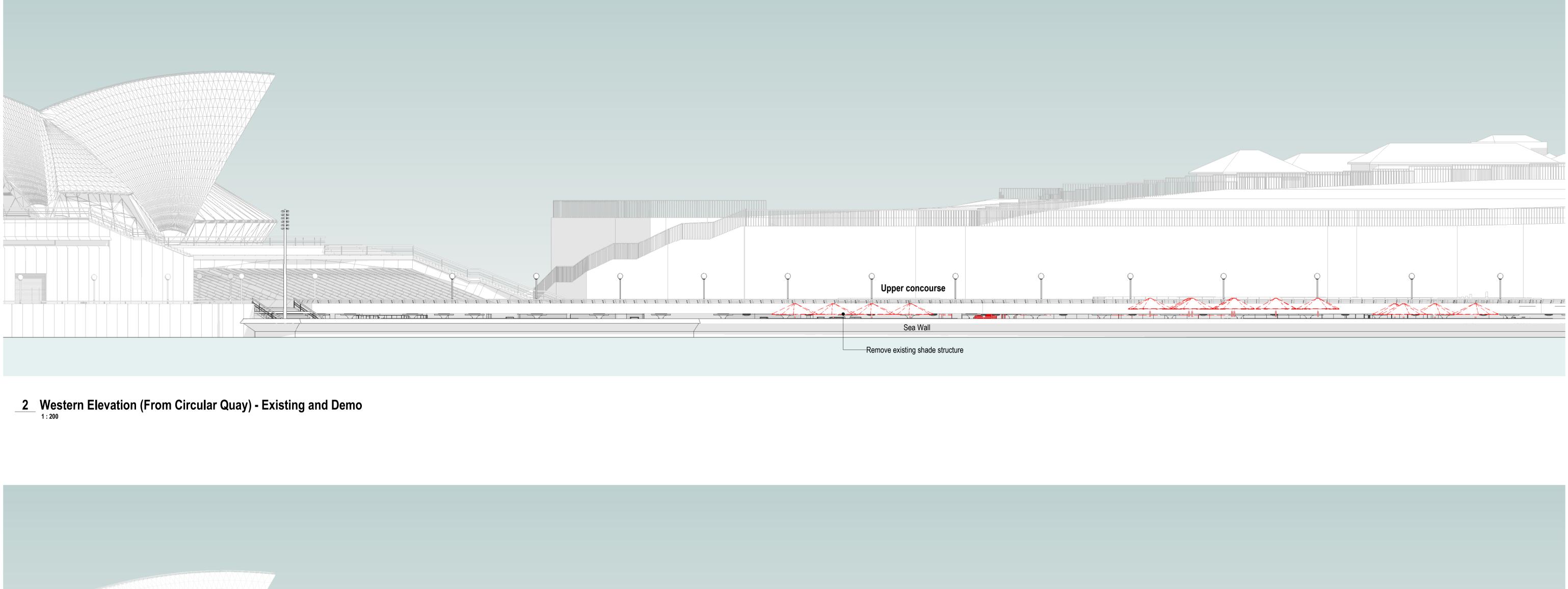


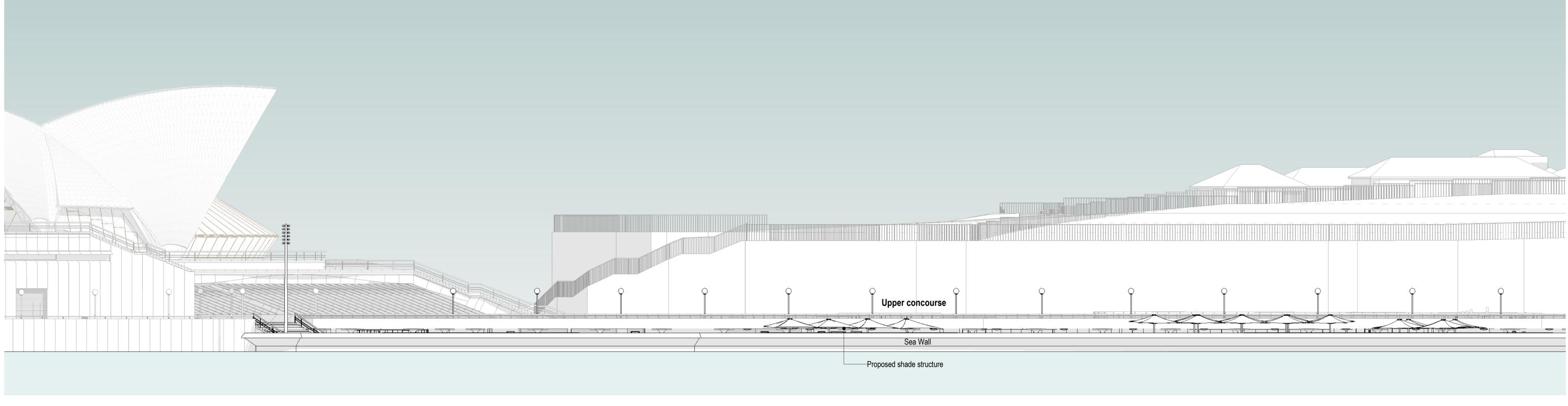












1 Western Elevation (From Circular Quay) - Proposed

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Rev Date Amendments

01 02/04/19 For Information

02 27/05/19 Preliminary 03 25/06/19 Development Application

D 26/06/19 Development Application Issue

E 30/07/19 Development Application Issue

Rev Date Amendments



Suite 35, Level 2, 94 Oxford Street Darlinghurst NSW 2010 Australia +612 9357 2288 hello@h-e.com.au www.h-e.com.au PO Box 490 Darlinghurst NSW 1300

Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Project
Sydney Opera House Lower Concourse Improvements

Client Sydney Opera House Trust

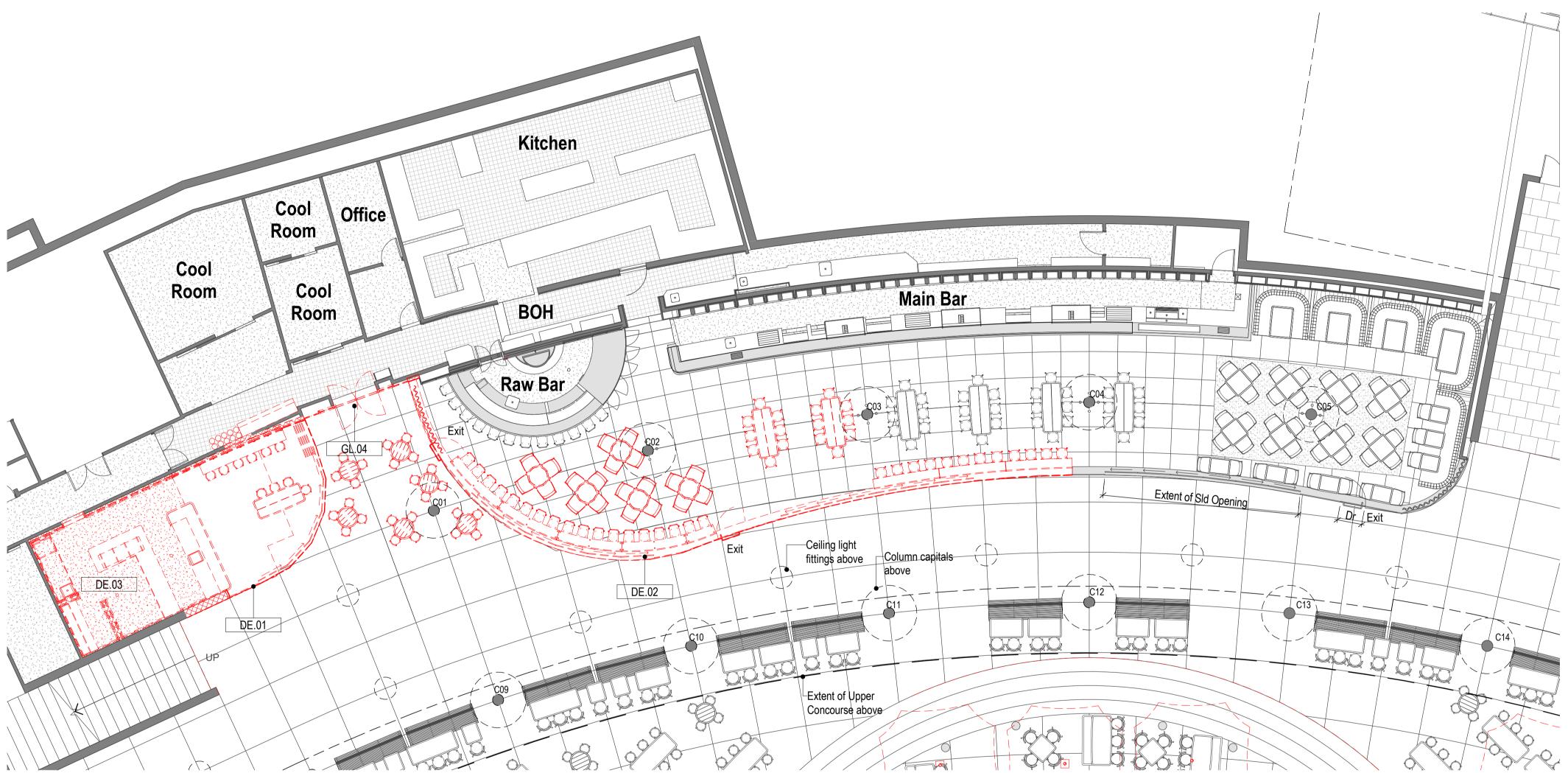
Location Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Drawing General Arrangement Elevation



Development Application

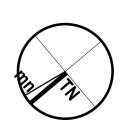
 Scale @ A1 Scale @ A3	1:200 1:400	Drawn by KR	Checked by GC
Project Issue Date	16/03/2015	Sheet Issue Date	30/07/19
 Project No. 24	66 Zone	LC	Discipline
Drawing No. 49	HE001	-3100	Revision
			30/07/2019 5:22:15 PM



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Rev Date Amendments

01 02/04/19 For Information 02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue Rev Date Amendments



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PO Box 490 Darlinghurst NSW 1300 Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Project Sydney Opera House Lower Concourse Improvements

Client Sydney Opera House Trust Location

Demo

Note:

Ref

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

Specification Legend Specification

DE.01	Demolish existing "Meat and Cheese Area" glazing line.
DE.02	Partially demolish part of the existing Main Bar area glazing.
DE.03	Demolish meat and cheese area fitout.
GL.04	Refurbish and modify existing bronze service door for new fire exit. Provide new matching frame to suit proposed configuration.



2.5 5 7.5 10 12.5 0M

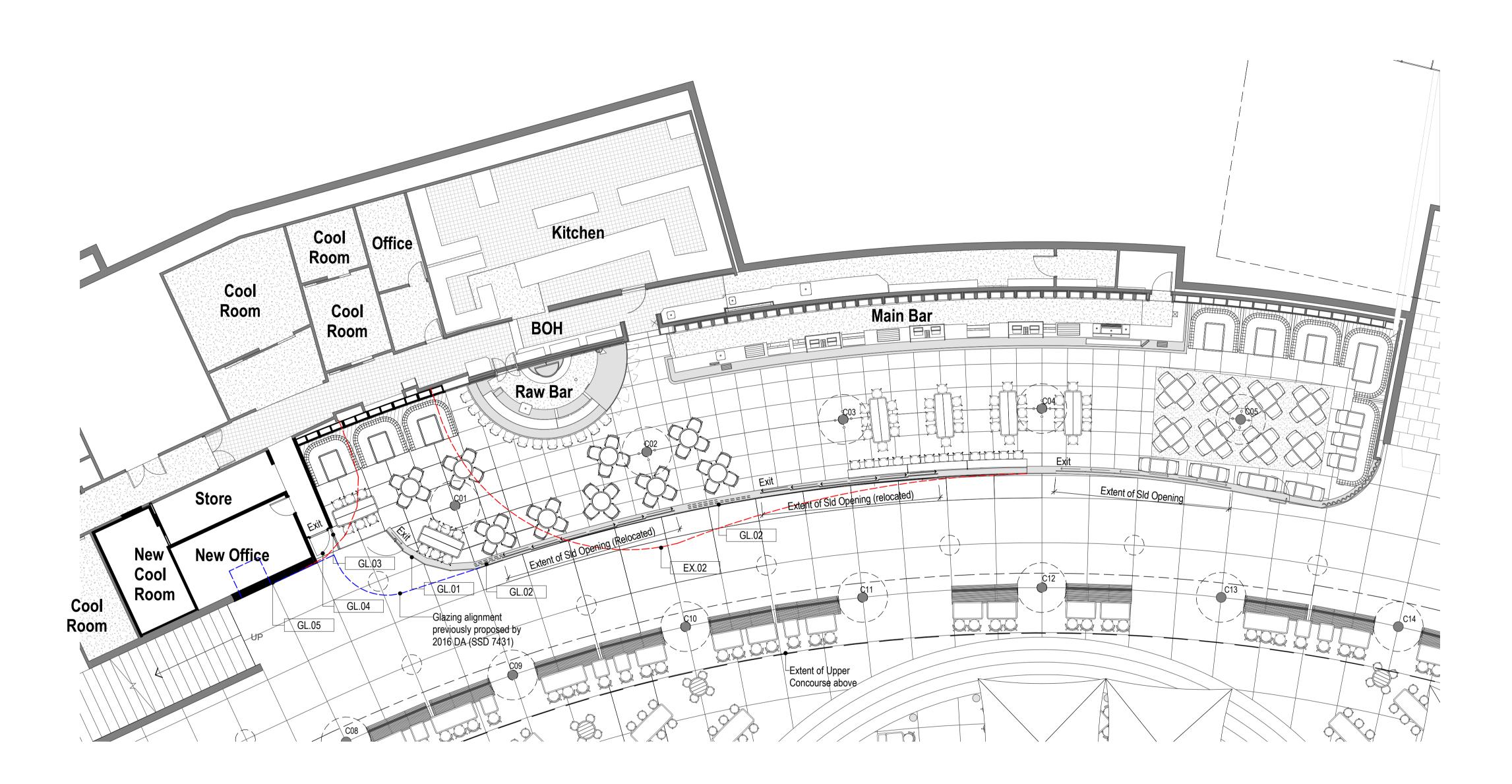
Development Application

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Project Issue Date	16/03	8/2015	Sheet Issue Dat	e 2	6/06/19
Project No. 24	66	Zone	LC	Discipline	
Drawing No. 49	HE	001	-3200	Revision	D

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Drawing
Detail Plan - Opera Bar Glazing Line - Existing &

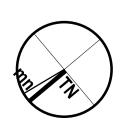
26/06/2019 7:02:34 PM



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Rev Date Amendments

01 02/04/19 For Information 02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue Rev Date Amendments



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PO Box 490 Darlinghurst NSW 1300 Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Client Sydney Opera House Trust

Project

Location Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Note:

Ref

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

Specification Legend Specification

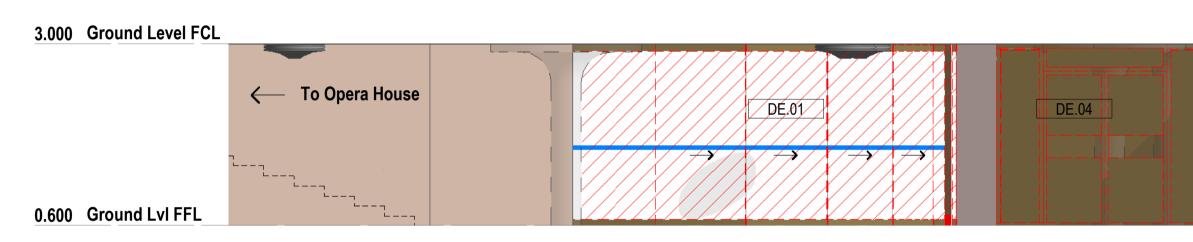
EX.02	Existing glazing line
GL.01	Proposed glazing line
GL.02	Stacking location for sliding glass panels (similar to existing)
GL.03	Extend full height glazing to match existing and return to solid brass door repositioned from existing fire exit
GL.04	Refurbish and modify existing bronze service door for new fire exit. Provide new matching frame to suit proposed configuration.
GL.05	Clad new wall in stone to match existing (full height) and return into fire door
	GL.01 GL.02 GL.03 GL.04

2.5 5 7.5 10 12.5 0M

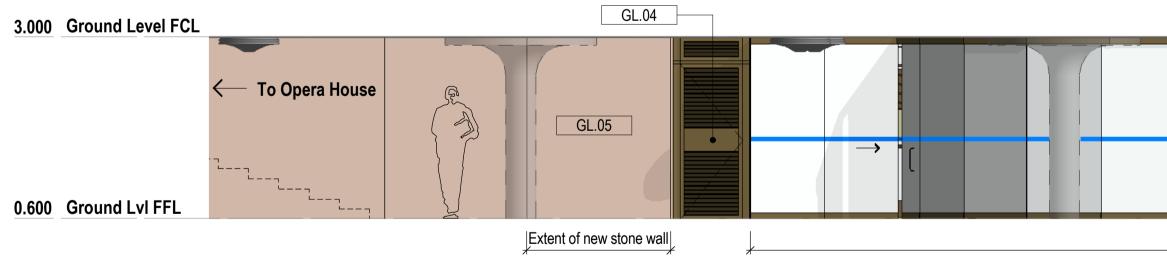
Development Application

e, roposed	Scale @ A1	1:100	Drawn by	Checked by
7,	Scale @ A3	1:200	KR	GC
	Project Issue Date	16/03/2015	Sheet Issue Date	26/06/19
roposed	Project No. 24	66 Zone	LC	Discipline
	Drawing No. 49	HE001	-3202	Revision
				26/06/2019 7:02:46 PM

Drawing
Detail Plan - Opera Bar Glazing Line - Pro







2 Detail Elevation - Glazing Line - Proposed 1:50

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	not scale from drawings. Confirm dimensions on site prior to the
	t of works. Where a discrepancy arises seek direction prior to
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purpose it was created. Do not use this drawing for construction unless designated.

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- 01 02/04/19 For Information 02 27/05/19 Preliminary
- 03 25/06/19 Development Application D 26/06/19 Development Application Issue

Rev Date Amendments

	DE.02				To Circular Quay —>
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																To Circula	r Quay
<i>←</i>	←	<i>←</i>	\rightarrow	>	\rightarrow				←	<	 \rightarrow	\rightarrow	\rightarrow				
Extent of new glazing line																	



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Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Project Sydney Opera House Lower Concourse Improvements

Client Sydney Opera House Trust

Location Lower Concou Bennelong Po

Drawing Detail Elevatio

Note:

Ref

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

Specification Legend Specification

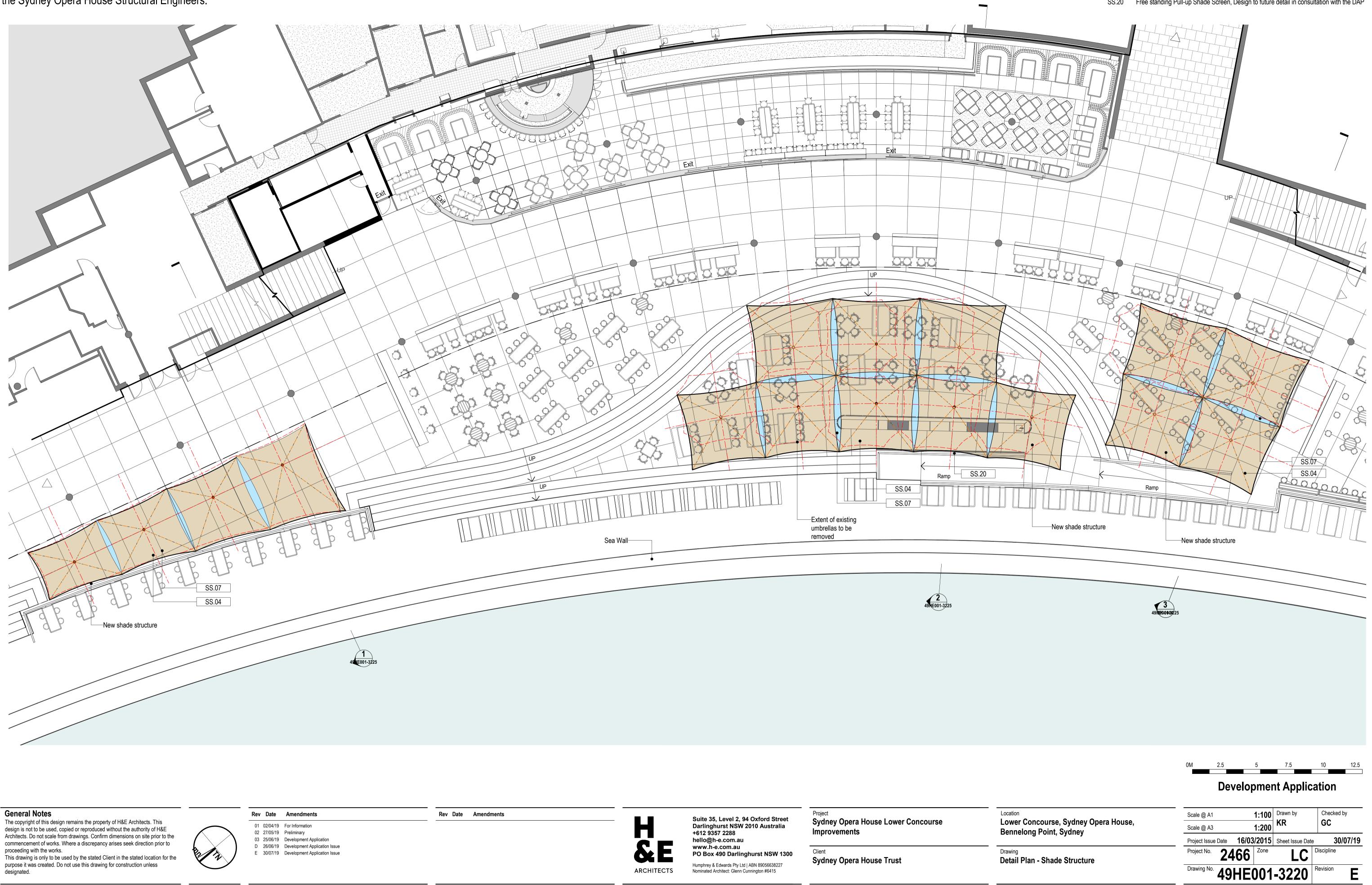
- DE.01 Demolish existing "Meat and Cheese Area" glazing line. DE.02 Partially demolish part of the existing Main Bar area glazing. DE.04 Remove, salvage and protect from damage existing bronze doors and vents. GL.04 Refurbish and modify existing bronze service door for new fire exit. Provide new matching frame to suit proposed
- configuration. GL.05 Clad new wall in stone to match existing (full height) and return into fire door



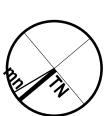
	Scale @ A1	1:50	Drawn by	Checked by
ourse, Sydney Opera House, oint, Sydney	Scale @ A3	1:100	KR	GC
	Project Issue Date	16/03/2015	Sheet Issue Date	26/06/19
on - Opera Bar Glazing	Project No. 24	166 Zone	LC	Discipline
	Drawing No. 49	HE001	-3205	Revision D
				26/06/2019 7:02:53 PM

NOTE:

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.



designated.





Nominated Architect: Glenn Cunnington #6415

Ref

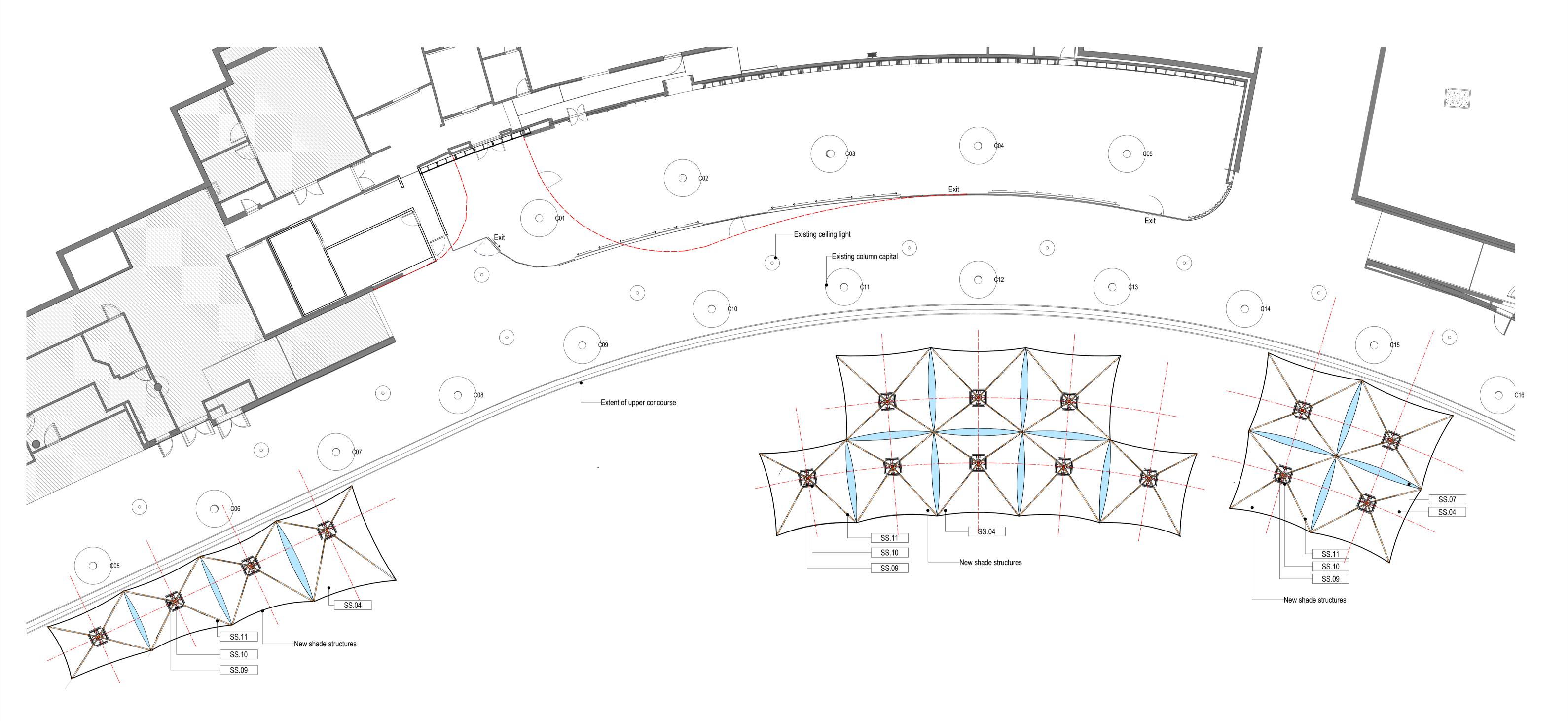
Specification Legend

Specification

SS.04 Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details. SS.07 Tensile fabric, Serge Ferrari 402, Translucent infill between umbrella elements as indicated on plan.

SS.20 Free standing Pull-up Shade Screen, Design to future detail in consultation with the DAP

30/07/2019 5:33:40 PM



Specification Legend

Ref

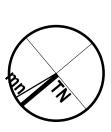
Specification

- SS.04 Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details.
- SS.07 Tensile fabric, Serge Ferrari 402, Translucent infill between umbrella elements as indicated on plan. SS.09 Indicative speaker locations. Speaker similar to void indigo 6 pro with colour matched finish (to dulux "coconut husk" with adjustable mounting brackets. Location, specification and configuration TBC with acoustic and audio-visual consultants. Speakers are to generally be directed away from residential apartments to the south and downwards from their mounting position towards patrons.
- SS.10 Infra-red electric radiant heating with variable control and zoned wiring. Specifications and configuration TBC, with experienced contractors.
- Strip led up-lighting to the underside of the shade structure fabric fabricated from proprietary suitably weather-proof strip led fitted within proprietary aluminum housing with integrated acrylic diffusers to effect even distribution of light SS.11 over the underside of the canopy. Fit led strip in 2 or 3 independently controlled sections to facilitated graduated illumination of the underside of the fabric to compensate for the variable proximity of the strip light to the fabric.

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Rev Date Amendments

01 02/04/19 For Information 02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue E 30/07/19 Development Application Issue Rev Date Amendments



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Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Project Sydney Opera House Lower Concourse Improvements

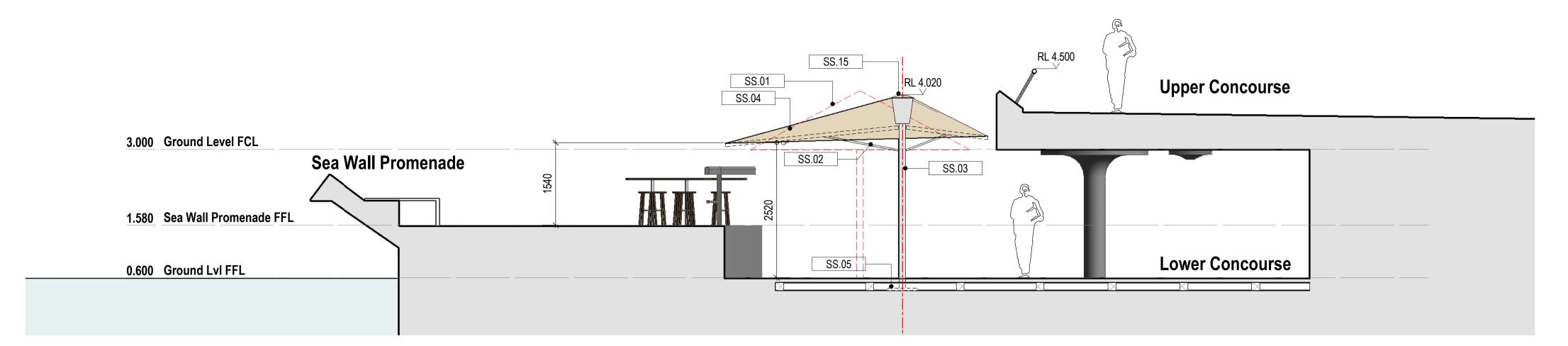
Location Lower Concour Bennelong Poin

Client Sydney Opera House Trust

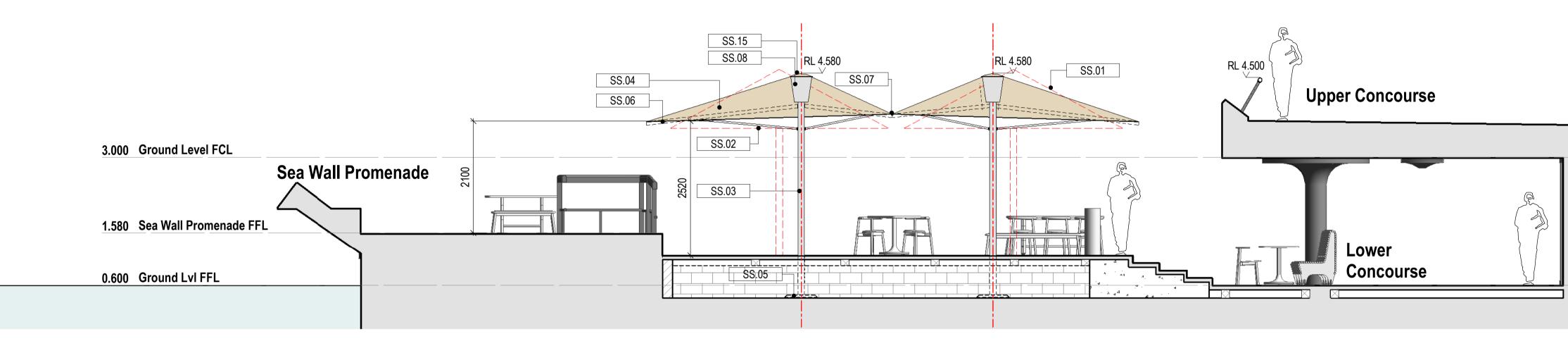
Drawing Shade Structure



	Scale @ A1		1:100	Drawn by	Checked by
rse, Sydney Opera House, nt, Sydney	Scale @ A3		1:200	KR	GC
	Project Issue Dat	te 16/03	/2015	Sheet Issue Date	30/07/19
e - Reflected Ceiling Plan	Project No.	2466	Zone	LC	Discipline
Ū	Drawing No.	9HE	001	-3221	Revision
					30/07/2019 5:25:54 PM



1 Shade Structure Section 1



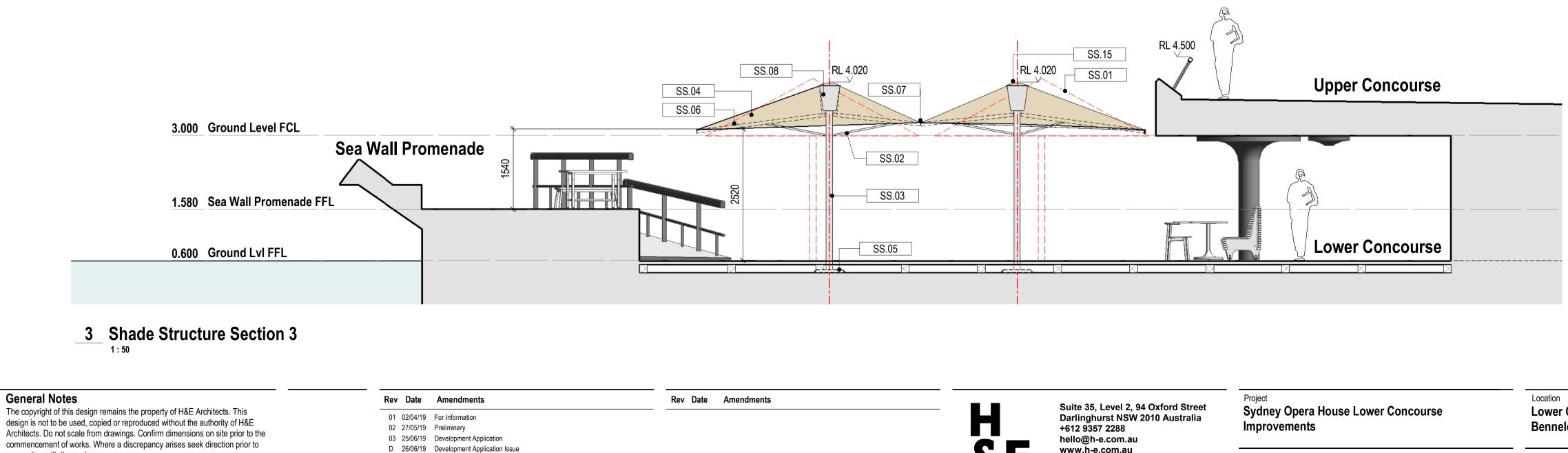
2 Shade Structure Section 2 1:50

proceeding with the works.

designated.

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Sydney Opera House Trust

Client

Lower Concou Bennelong Poir

Drawing **Detail Section -**

Note:

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

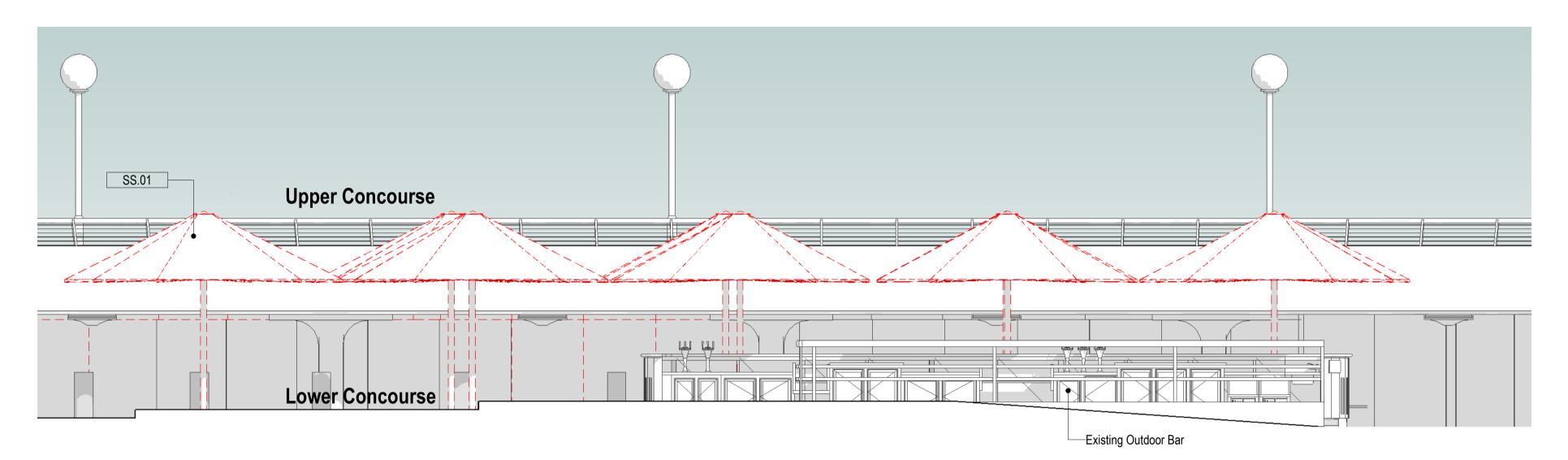
General Notes Detail Shade Structure:

All metal works to be No.4 finished 'linished' Stainless Steel consistent with an approved sample.

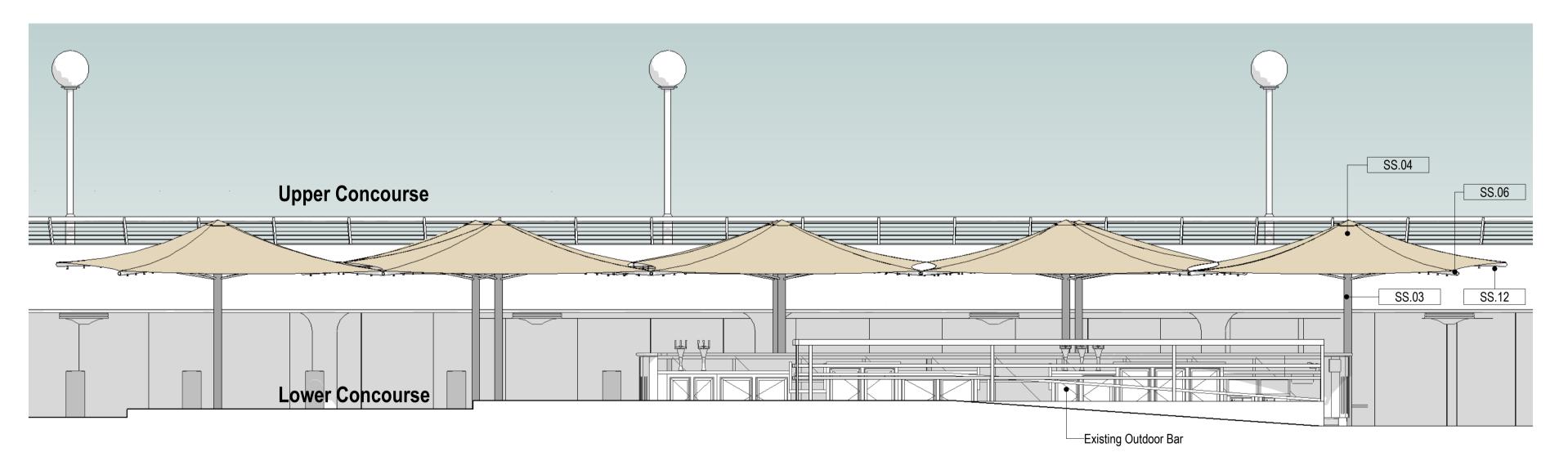
	Specification Legend
Ref	Specification
SS.01	Existing umbrellas to be removed. Patch and repair ex pavers where fixings are removed to an approved standard.
SS.02	SS Shade structure struts designed and fabricated to approved detail.
SS.03	SS shade structure masts designed and fabricated to approved detail.
SS.04	Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details.
SS.05	SS base plate and fixing in accordance with the structural engineer's design and specification
SS.06	SS shade structure outriggers designed and fabricated to approved detail. Powder coat finished. Colour: closest approved match to dulux coconut husk.
SS.07	Tensile fabric, Serge Ferrari 402, Translucent infill between umbrella elements as indicated on plan.
SS.08	Removable approved perforated stainless sheet panels with discreet secure SS fixings designed to conceal services infrastructure including GPS table location system, wifi extenders, lighting drivers, speaker connections, CCTV connections, heater junctions etc as required. Design to facilitate the installation and provide access for the ongoing maintenance of services.
SS.15	SS column cap to manufacturers detail with integrated structural connection to columns. Powder coat finish colour: closest approved match to dulux 'coconut husk'.

1.0 2.0 3.0 4.0 0M 5.0

	Scale @ A1	1:50	Drawn by	Checked by
rse, Sydney Opera House, int, Sydney	Scale @ A3	1:100	KR	GC
int, Cyancy	Project Issue Date	16/03/2015	Sheet Issue Date	26/06/19
- Shade Structure	Project No. 24	-66 ^{Zone}	LC	Discipline
	Drawing No. 49	HE001	-3225	Revision D
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1 Elevation - Shade Structure - Existing



2 Elevation - Shade Structure - Proposed

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Rev Date Amendments

01 02/04/19 For Information 02 25/06/19 Development Application

C 26/06/19 Development Application Issue

Rev Date Amendments



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PO Box 490 Darlinghurst NSW 1300 Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415 Project Sydney Opera House Lower Concourse Improvements

Client
Sydney Opera House Trust

Location Lower Concour Bennelong Poir

Drawing Detail Elevation

Note:

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

General Notes Detail Shade Structure:

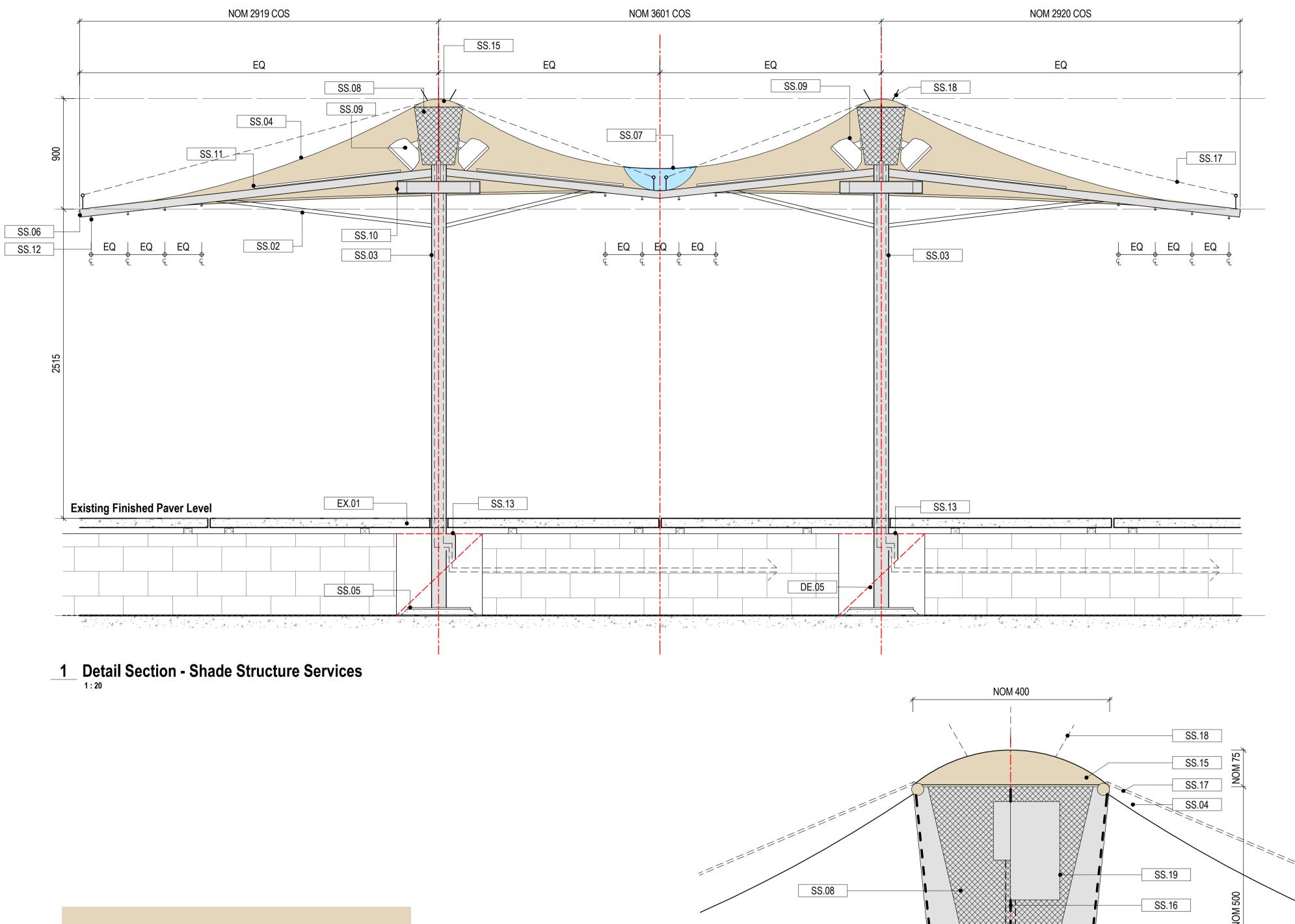
All metal works to be No.4 finished 'linished' Stainless Steel consistent with an approved sample.

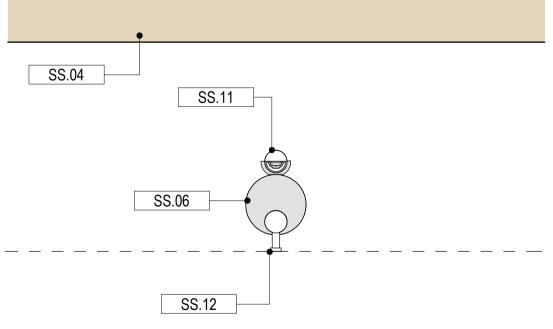
RefSpecification LegendSS.01Existing umbrellas to be removed. Patch and repair ex
pavers where fixings are removed to an approved
standard.

- SS.03 SS shade structure masts designed and fabricated to approved detail.
- SS.04 Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details.
- SS.06 SS shade structure outriggers designed and fabricated to approved detail. Powder coat finished. Colour: closest approved match to dulux coconut husk.
- SS.12 Misting nozzles. Misting runs within framing only. All connections made in accessible locations. Nozzles protrude through outriggers.

0M 1.0 2.0 3.0 4.0 5.0

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ırse, Sydney Opera House, int, Sydney	Scale @ A3	1:100	KR	GC
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n - Shade Structure	Project No. 24	66 Zone	LC	Discipline
	Drawing No. 49	HE001	-3230	Revision C
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2 Detail Section - Service bracket 1:5

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Rev Date Amendments

01 27/05/19 Preliminary 02 25/06/19 Development Application

C 26/06/19 Development Application Issue

Rev Date Amendments

SS.09 SS.11 _____ ____. SS.13 -**¦●** Ì Ì SS.03 SS.10

<u>3</u> Detail Section - Shade Structure Services 1:5



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Nominated Architect: Glenn Cunnington #6415

Project Sydney Opera House Lower Concourse Improvements

Client Sydney Opera House Trust

Location Bennelong Point, Sydney

Drawing

Note:

Ref

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

General Notes Detail Shade Structure: All metal works to be No.4 finished 'linished' Stainless Steel consistent with an approved sample.

Specification Legend Specification

	opeenication
DE.05	Cut section of granite paving and block wall out as required to facilitate fixing for shade structure columns
EX.01	Existing granite pavers to remain insitu. Neatly cut around shade structure columns providing consistent clearance
SS.02	SS Shade structure struts designed and fabricated to approved detail.
SS.03	SS shade structure masts designed and fabricated to approved detail.
SS.04	Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details.
SS.05	SS base plate and fixing in accordance with the structural engineer's design and specification
SS.06	SS shade structure outriggers designed and fabricated to approved detail. Powder coat finished. Colour: closest approved match to dulux coconut husk.
SS.07	Tensile fabric, Serge Ferrari 402, Translucent infill between umbrella elements as indicated on plan.
SS.08	Removable approved perforated stainless sheet panels with discreet secure SS fixings designed to conceal services infrastructure including GPS table location system, wifi extenders, lighting drivers, speaker connections, CCTV connections, heater junctions etc as required. Design to facilitate the installation and provide access for the ongoing maintenance of services.
SS.09	Indicative speaker locations. Speaker similar to void indigo 6 pro with colour matched finish (to dulux "coconut husk" with adjustable mounting brackets. Location, specification and configuration TBC with acoustic and audio-visual consultants. Speakers are to generally be directed away from residential apartments to the south and downwards from their mounting position towards patrons.
SS.10	Infra-red electric radiant heating with variable control and zoned wiring. Specifications and configuration TBC, with experienced contractors.
SS.11	Strip led up-lighting to the underside of the shade structure fabric fabricated from proprietary suitably weather-proof strip led fitted within proprietary aluminum housing with integrated acrylic diffusers to effect even distribution of light over the underside of the canopy. Fit led strip in 2 or 3 independently controlled sections to facilitated graduated illumination of the underside of the fabric to compensate for the variable proximity of the strip light to the fabric.
SS.12	Misting nozzles. Misting runs within framing only. All connections made in accessible locations. Nozzles protrude through outriggers.
SS.13	All service connections to run under pavers in accordance with service consultants requirements with weather proof penetration to shade structure in accordance with shade structure manufacturers details.
SS.15	SS column cap to manufacturers detail with integrated structural connection to columns. Powder coat finish colour: closest approved match to dulux 'coconut husk'.
SS.16	Perforated SS gusset to facilitate the mounting of service infrastructure
SS.17	Stainless Steel bird wire to approved details
SS.18	Stainless Steel bird spikes to approved details
SS.19	Indicative equipment within SS gusset. Equipment including, GPS table location system, wifi extenders, lighting drivers, speaker connections, CCTV connections, heater junctions etc.

0.8 7.2 11.0 12.6 0.5

Development Application

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Project Issue Da	ate 16/03	/2015	Sheet Issue Date	e 26/06/19	
Project No.	2466	Zone	LC	Discipline	
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Lower Concourse, Sydney Opera House,

Detail Section - Shade Structure Services