

ENGINEERING & TECHNOLOGY PRECINCT (ETP) REDEVELOPMENT – PHASE 1 DESIGN EXCELLENCE REVIEW PANEL (DERP) - MEETING No. 4

31 August 2018, 10.00am – 12.00pm G12 Services Building, Meeting Room 5

Present	Initial	Position / Role
Juliette Churchill	JC	University of Sydney Campus Planning Manager, Design Excellence Review Panel
Kim Crestani	KC	Order Architects, Design Excellence Review Panel
Tony Caro	TC	Tony Caro Architecture, Design Excellence Review Panel
Prof. Michael Tawa	MT	University of Sydney School of Architecture, Design & Planning Design Excellence Review Panel
Michael Bradburn	MB	Cox Architects
Shohan Sonasundaram	SS	Cox Architects
lan Cunliffe	IC	LORAC Design Manager
Simon Brown	SBr	T.C.L Landscape Architects
Scott Biggs	SB	Divisional Manager, Infrastructure Delivery
David Watt	DW	Delivery Design Manager
Nigel Grayshon	NG	Design Manager
Laura MacMahon	LM	Secretariat

MINUTES

Welcome Introductions & Apologies

JC outlined the purpose of the meeting, to address the 9 points raised in the last DERP meeting reinforced by the Government Architect in the SSDA submission.

Design Excellence Review Panel Meeting #4

LORAC/Cox's 75 sheet presentation- DERC #04, dated 31 August 2018 [attached] responded to the DERP #03 meeting outcomes and the State Significant Development Application submissions. Including the following 9 items previously identified by DERC as requiring ongoing design refinement.

Item	LORAC/ COX Presentation	DERC Comments	
SW corner at roof and skylight is ambiguous in form and materiality, and clarification required.	 Refer to sheets 38 to 41. Refinement of roof, skylight, atrium SW corner articulation. Rationalisation and delineation of glass plank cladding to plant room and full height glazing to Atrium. 	Generally acceptable to DERC. Whilst this highly visible area of the scheme has improved since previously reviewed, further rationalisation of the various cladding systems should be investigated to streamline the overall aesthetic form and formal clarity of the building. Concern expressed re: transparency of glass planks cladding to plant	

		rooms, better to silhouette plant systems.
2. Further refinement of plantroom, roof and atrium integration required.	 Refer sheets 38 to 41. Refer to comments on point 1 above. Plant design has become more efficient, therefore takes up less area. 	See above.
3. There are further opportunities to improve the urban edge interface with the public domain	 Refer to sheets 33 to 35 Improved urban edge to public domain Engineering on display. Opportunity to enhance engineering on display, by making the plant visible. Invite self-directed learning with QR codes on signage. Self-directed learning Better connection with level 2 laboratory. Level of the landscape lowered to optimise view into the high bay laboratory. Demystifying edges. 	Generally acceptable to DERC. Active edges and activity to the Maze Green frontage would be the preferred use if possible. Visibility of the substation is a concern and needs to be appropriately screened with planting.
4. Clarification of northern areas as two distinct 'destinational spaces', rather than being given over too much to circulation	 Refer to sheets 21 to 32. Constellation of spaces External casual spaces Teaching and Learning Spaces Performance and celebration spaces Culturally safe 	Generally acceptable to DERC. Destinational and circulational spaces are mediated by curvilinear shapes integrated into the floor, which extend the astronomy patterns of the landscape design into the interior. While this is supported, a less singular, hard- edge line in the paving pattern would be preferable (as incorporated into the existing pathways of Cadigal Green).
5. Variety in scale of gathering spaces to be developed.	 Refer to sheets 21 to 32. Refer to comments on point 4 above. Softened the hard landscaping by creating destinational landscapes with more lawn space, low walls for seating and gathering, using circular forms for amphitheatre for teaching/study groups/ small events. 	Generally acceptable to DERC. Refer to comment on point 4 above.
6. Further resolution of the atrium is required to investigate simplifying forms.	 Refer to sheets 50 to 63. New timber lift core shows clear delineation. Continuity for two sides to be one floor plate. Constellation pattern of Sydney sky in June, to be mapped onto plywood with digital technology. 	Generally acceptable to DERC. Engagement with indigenous astronomy is supported. Consider working with the Sydney Observatory to integrate more precisely concepts of indigenous astronomy that emphasise the voids between stars and planets, in contrast to Western astronomy.

7. Further detail required Refer to sheets 50 to 63. Generally acceptable to DERC. for the mesh to the Horizontal loadings and rigidity of Mesh has moved to the other side of atrium, and edge screens to be investigated. the atrium. condition. Provided an overview of the form of the mesh and its differing gauge dimensions and connection detail to the slab. Continued representation of constellation with nodes. Joinery aligns with the mesh. 8. The external ducts on Generally acceptable to DERC. Refer to sheets 42 to 48. north façade to be The Panel looks forward to further Provided an overview of the refined reviewed in terms of design development and refinement Engineer solution. aesthetic and materiality of the external ducts materiality, Presented a model of the external detail and geometry. louvre connections. Noted ducts can be removed and replaced if required. 9. WMBB strategy is Generally acceptable to DERC. Refer to sheets 06 to 19. Ongoing collaboration with WMBB promising in terms of Identified the WMBB connection with integration into building representative required during the ground plane, constellation of tectonics – specifically design development. spaces, articulation of the existing with idea for the ground building, the mesh, the refined plane, its materiality and engineering and the veil. contiguity between in Creating culturally safe places. and out. Landscape narrative includes: ground plane contiguity and materiality, constellation of spaces, external

teaching/learning and performance

Integrated Art Strategy - Adaptation

and celebration spaces.

exhibition.

of tools and technology from traditional to new. Inspiration from the Shared Knowledge Hub digital

Ground Plane – to use indigenous flora and fauna. Continued expansion of Cadigal Green concepts into the ground plane.



CAMPUS INFRASTRUCTURE & SERVICES

Engineering & Technology Precinct (ETP) Redevelopment Project (Stage 1)

At the presentation on 31 August 2018, the DERC panel are satisfied that the 9 identified design items in the report dated 27 September 2017 have been adequately resolved, and endorse the design as being capable of achieving design excellence.

The DERC will remain involved in the project as it develops.

Subject to:		

Signed		
DERC Member:	Kim Crestani Chin Crestani	31 08 /2018
DERC Member	Tony Caro	31,08/2018
DERC Member	Michael Tawa	30.10.8/2018
DERC Member/ Chair	Juliette Churchill	<u> 31./.8./2018</u>

University of Sydney Engineering and Technology Precinct - Stage 1

Design Excellence Review Committee 04



Agenda

- Process Update
- Wingara Mura
- Ground Plane
- Atrium
- Façade
- Other



The Micro Engineering Design Excellence Process



DERP 03 - Meeting Outcomes & Response to SSDA

Outcomes Addressed

Wingara Mura

• Relationship to the public art strategy

Ground Plane

- Ground plane contiguity and materiality
- Creation of destination spaces not given over to circulation
- Improved urban edges to the public domain

Façade

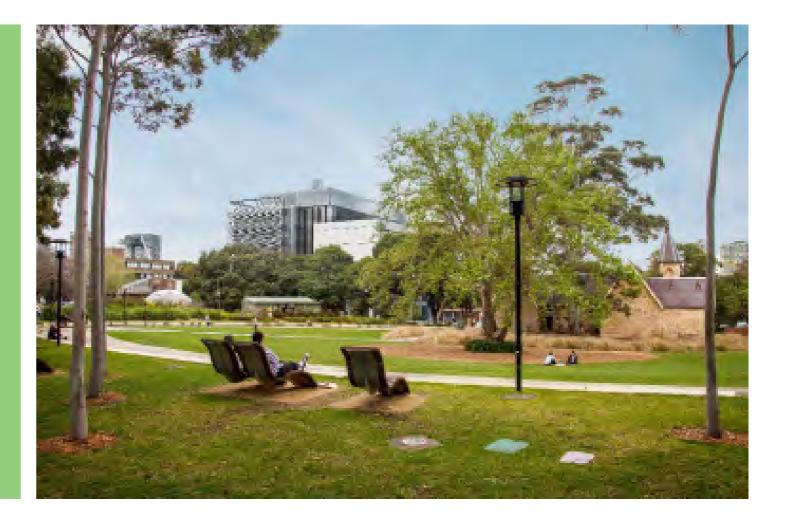
- Refine the Roof / Skylight / Atrium &
 South West Corner Articulation
- Clarification of Façade Types
- Facade Details
- Materials and Finishes
- Signage Details

Atrium

- Variety in scale of gathering spaces
- Simplified forms
- Atrium edge details

Other

- Access Strategy
- Future level 9 roof top access
- Confirmation and Architects engagement



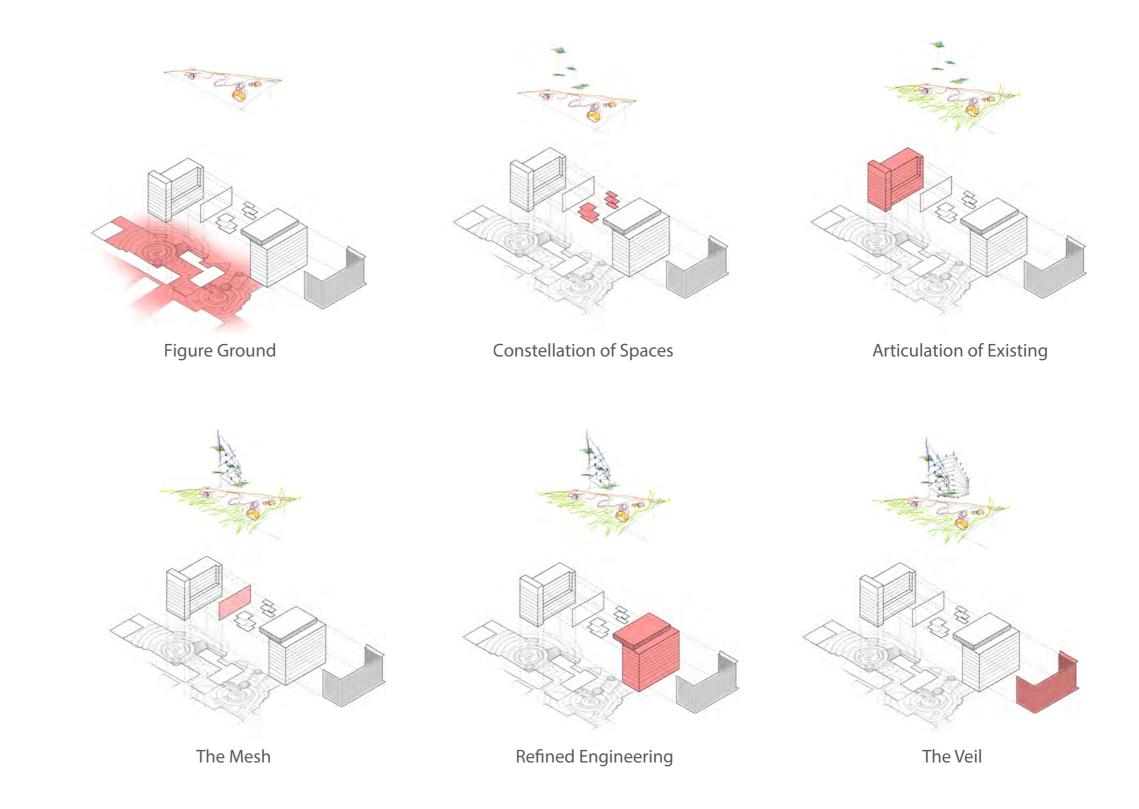
Design Narrative



Wingara Mura



Wingara Mura



Culturally Safe Space

Commonly Used Definition:

an environment that is spiritually, socially and emotionally safe, as well as physically safe for people; where there is no assault challenge or denial of their identity, of who they are and what they need. It is about shared respect, shared meaning, shared knowledge and experience of learning together

Ref Williams, R. (1999). Cultural safety – what does it mean for our work practice? Australian and New Zealand Journal of Public Health, 23(2), 213-214







Creating Culturally Safe Spaces

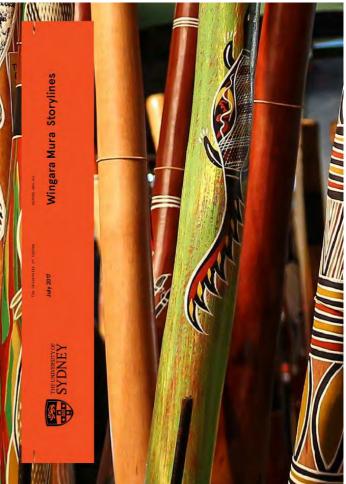
Evolution of Culturally Safe Spaces

- First developed in New Zealand in the 1980 to address issue with Major Health Care
- Adapted to Australian Healthcare
- Further adaptation to other typologies including Justice and Education

Culturally Safe Space in Design Principles for Education:

- Engage in consultation with the local community
- Make relevant for local Indigenous nation and other heterogeneous Indigenous groups
- Ensure access and vision to external spaces
- Provides signs & symbols acknowledging the traditional custodians
- Provide imagery of Indigenous students, academics & research
- Provide space for gathering
- Create spaces that promote the feeling of physical safety
- Create spaces that promote sharing

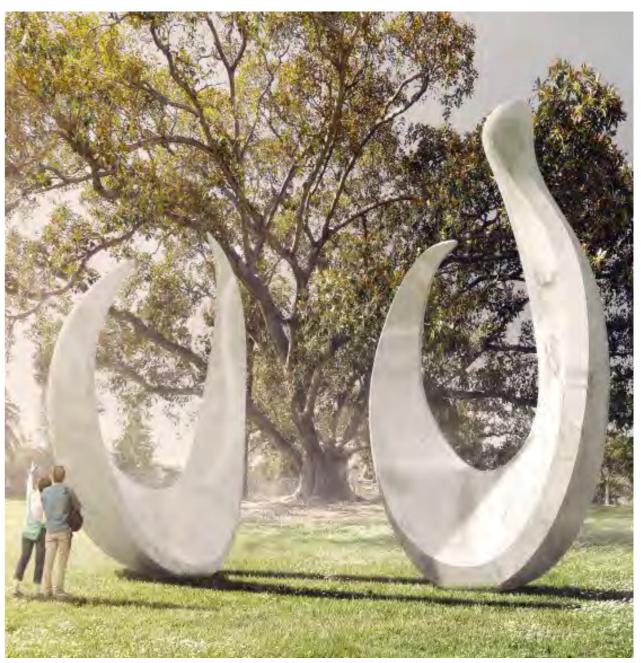




Recent Indigenous Art Projects



Remember Me Reko Rennie



Bara Judy Watson



- Welcome to Country, National Connectivity, Networks of Knowledge Leadership
- Connection to Land and Place, Life, Earth Environmental Science, Fire, Rock, Earth and Sustainability
- Teaching and Knowledge Sharing
- Connection to Land, Art, History and Reconiliation
- Connection to Country, Sit Down Place, Storytelling and Paint Up and the Arts
- Land, Animals and Sustainability
- 7. Health, Medicine and Wellbeing

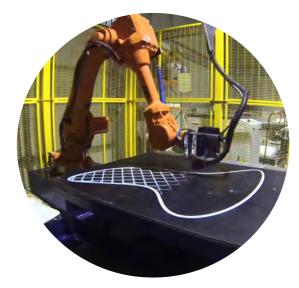
- Water, Middens, Fish, Food, Health
- 9. Visual Arts and Language
- Native Animals and Plants, Medicine and Food
- Wianamatta Shale, Sit Down Place, Corroboree
- 12. Social Justice, Contempory Aboriginal History
- 13. Tools and Technology, Water
- Land, Past Present and Future, People and Technology
- Ceremony, Engagement, Music and Songs

- Animals and Plants
- Visual Arts
- Laws, Traditions and Storytelling
- Astrology and Physics
- Waterways, Plants and Health
- Innovation and Making
- Welcome to Country
- Adaptation, Tools and Technoolgy





Traditional Technology



New Technology





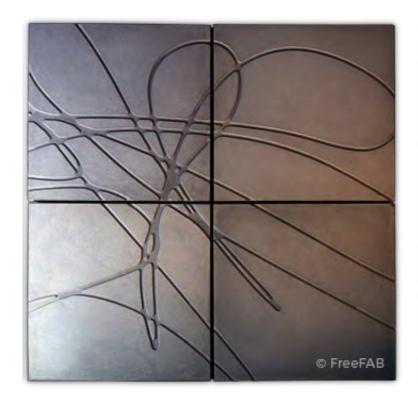




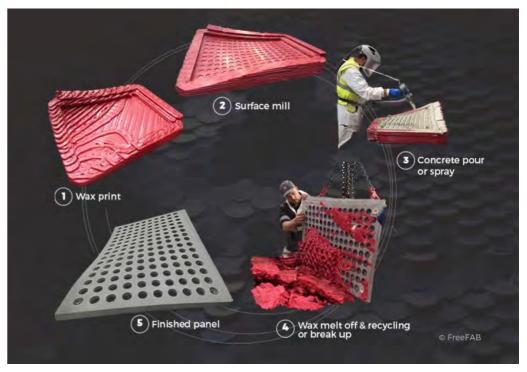






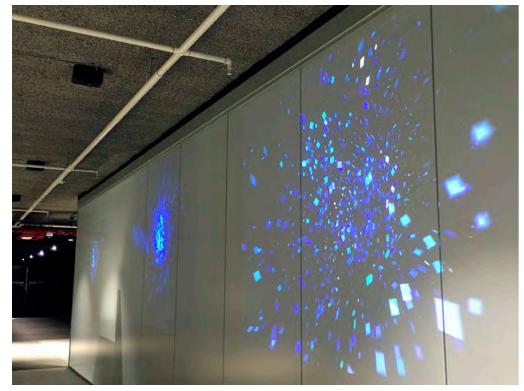






Shared Knowledge Hub

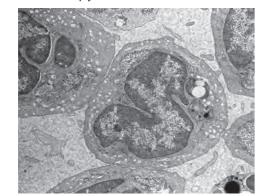
Digital Exhibition



Traditional Exhibition



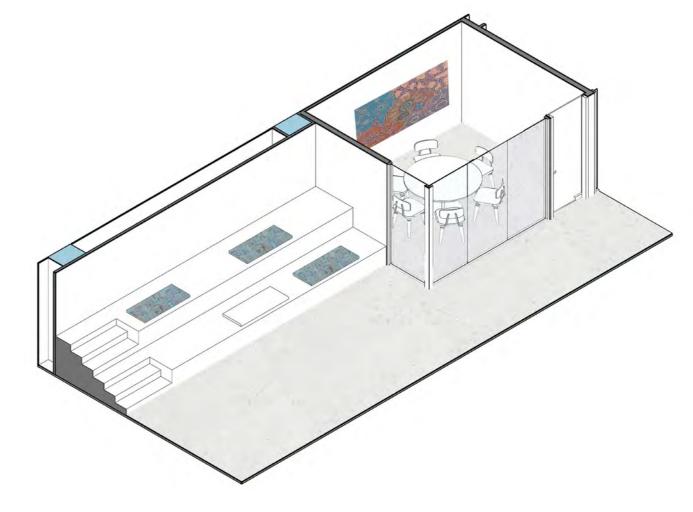
Microscopy



Blood clotting cell from a crocodile



Baayami and Gurriya



Level 3 Meeting room & Informal space

Ground Plane



Landscape Narrative

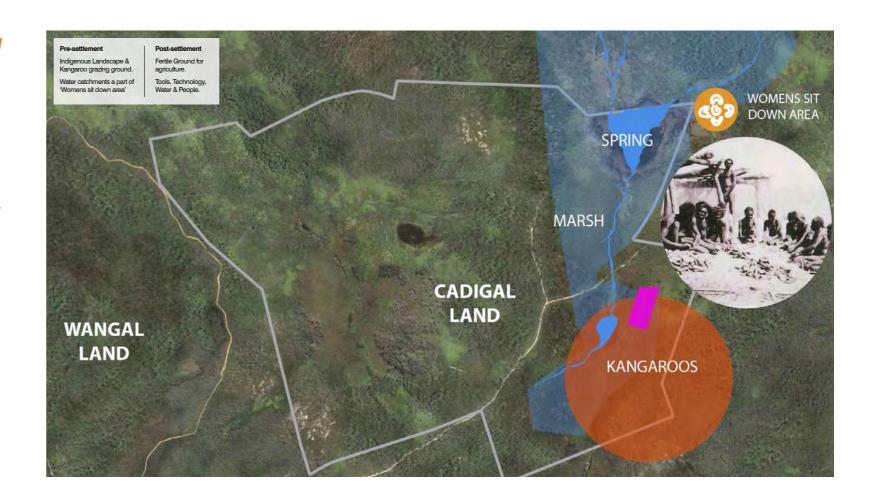
Creating spaces of intimacy, gathering, meeting, connecting ...casual spaces

...teaching spaces

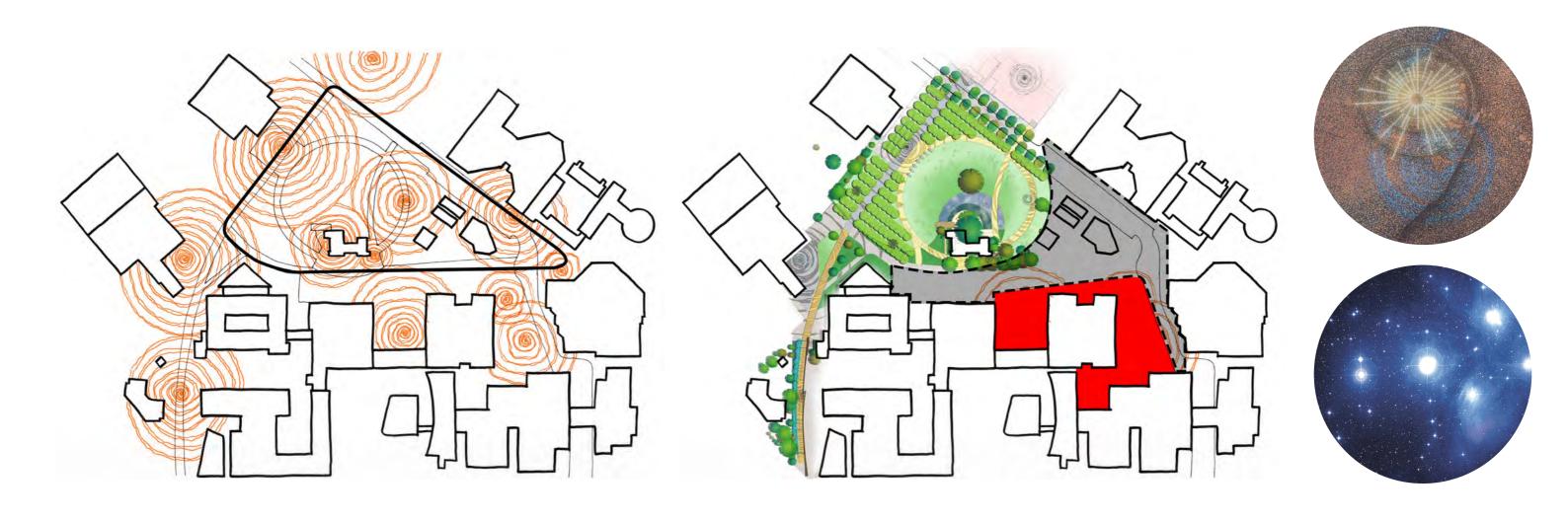
...performance and celebration spaces

In accordance with Wingara Mura design principles, creating "cultural safe spaces" with embedded interpretation of ...women's places

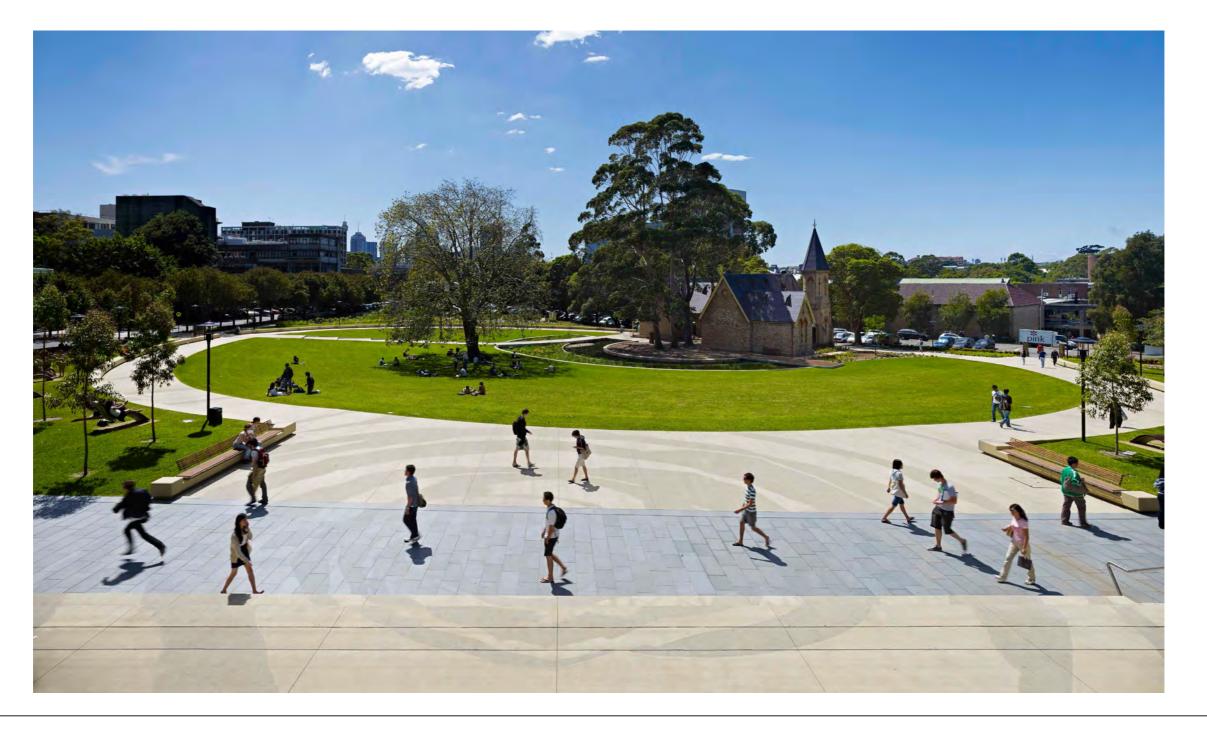
...water and watercourses ...local totems of country



Cadigal Green Constellation



Cadigal Green - First Stage



Ground Plane Ground plane contiguity and materiality









Ground Plane SSDA



Ground Plane Current



Constellation of Spaces - External Casual Spaces

Creating spaces of intimacy, gathering, meeting, connecting ...casual spaces

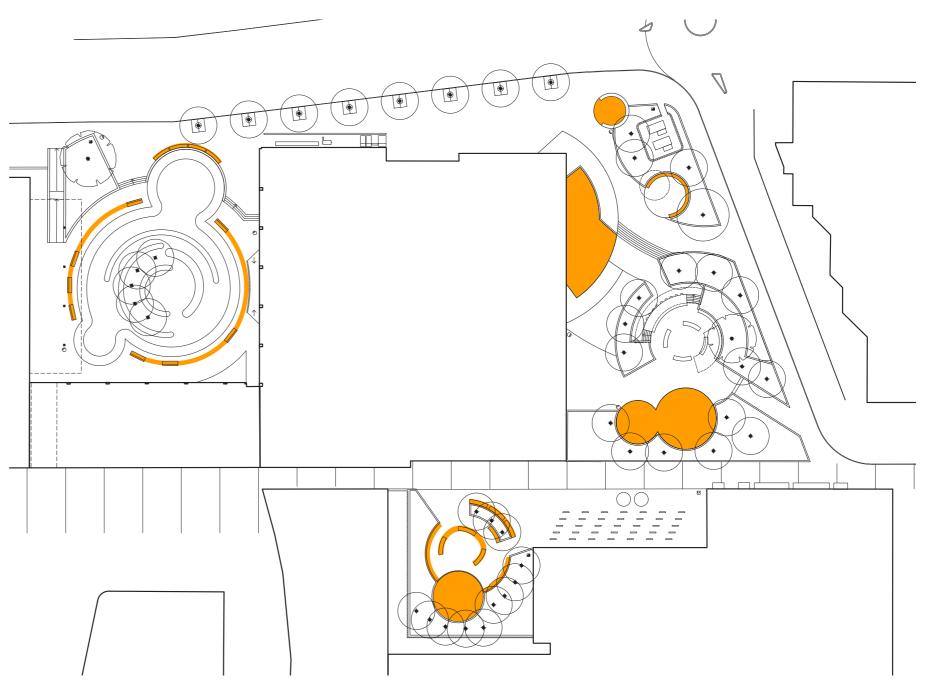
...teaching spaces

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Constellation of Spaces - External Teaching and Learning Spaces

Creating spaces of intimacy, gathering, meeting, connecting ...casual spaces

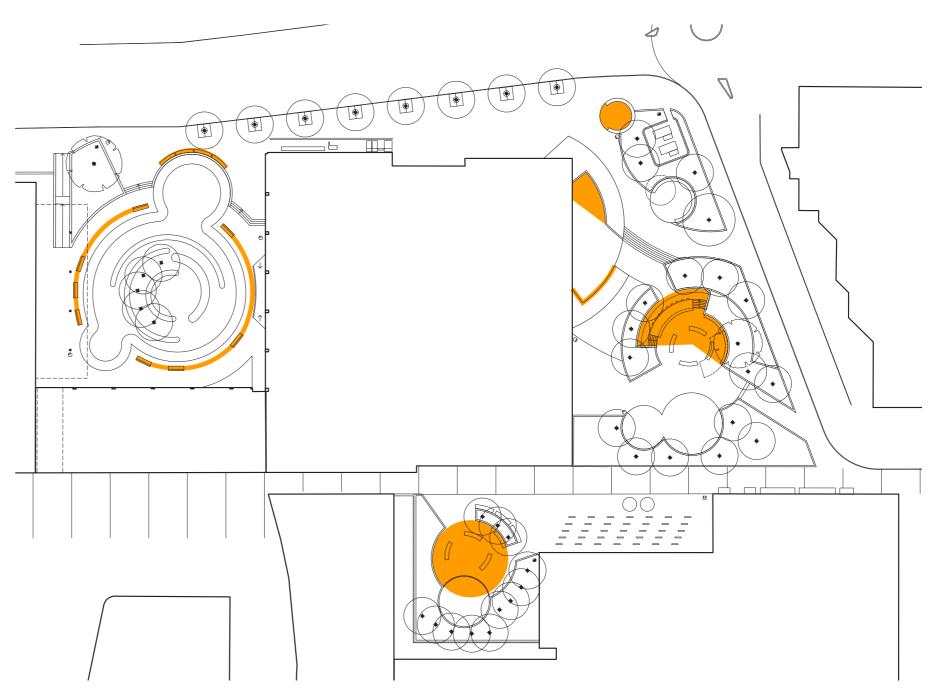
...teaching spaces

...performance and celebration spaces

In accordance with Wingara Mura design principles, creating "cultural safe spaces" with embedded interpretation of ...women's places

...water and watercourses
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Constellation of Spaces - External Performance and Celebration Spaces

Creating spaces of intimacy, gathering, meeting, connecting ...casual spaces

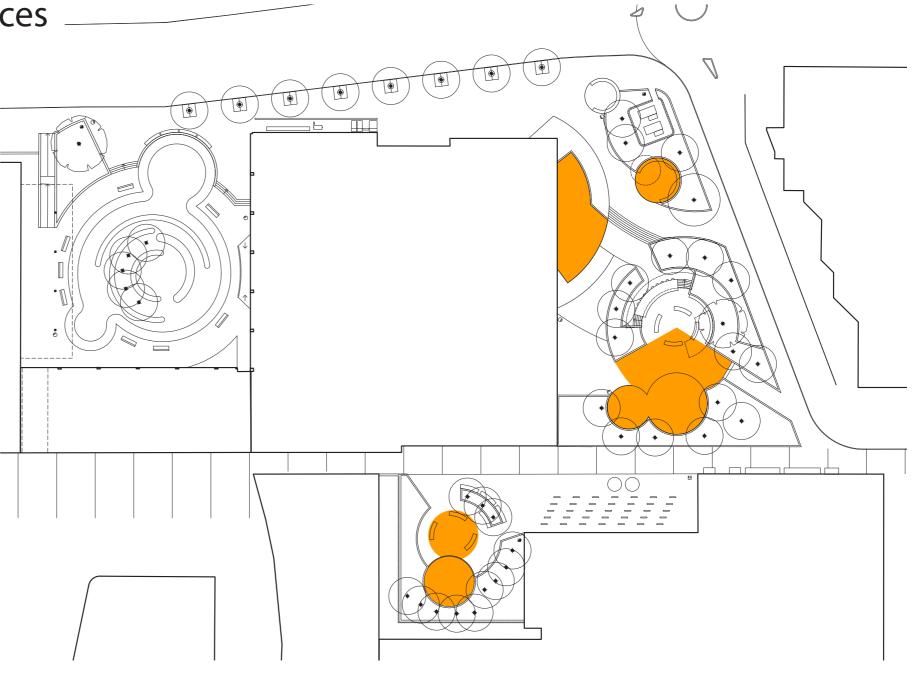
...teaching spaces

...performance and celebration spaces

In accordance with **Wingara Mura** design principles, creating "cultural safe spaces" with embedded interpretation of ...women's places

...water and watercourses
...local totems of country





Constellation of Spaces - External Culturally Safe Spaces

Creating spaces of intimacy, gathering, meeting, connecting ...casual spaces

...teaching spaces

...performance and celebration spaces

In accordance with Wingara Mura design principles, creating "cultural safe spaces" with embedded interpretation of ...women's places

...water and watercourses ...local totems of country













Constellation of Spaces - External Culturally Safe Spaces

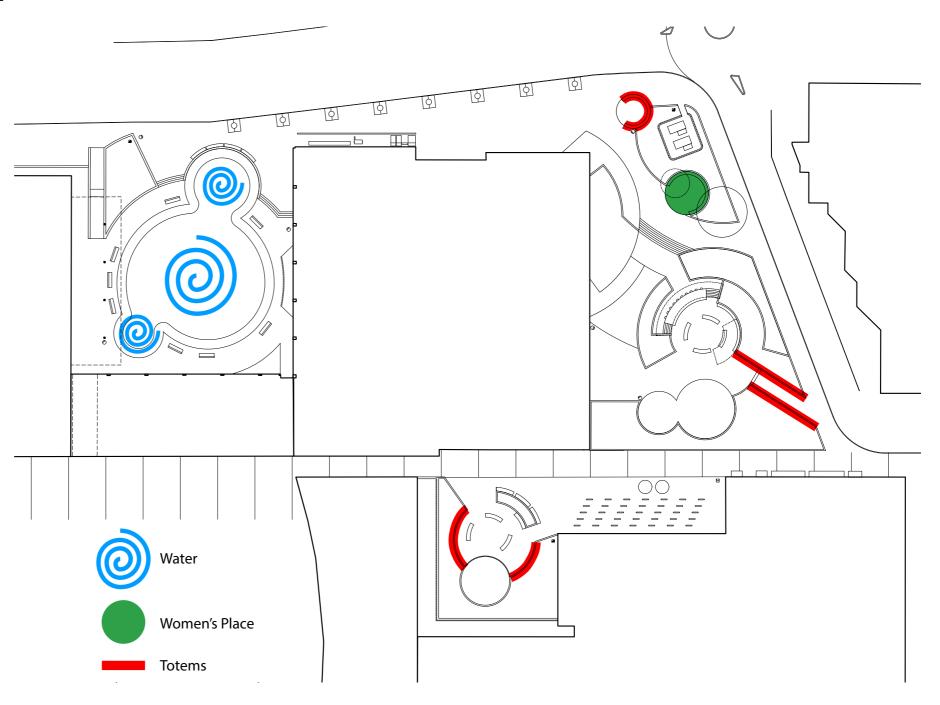
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Constellation of Spaces - External Flora and Fauna

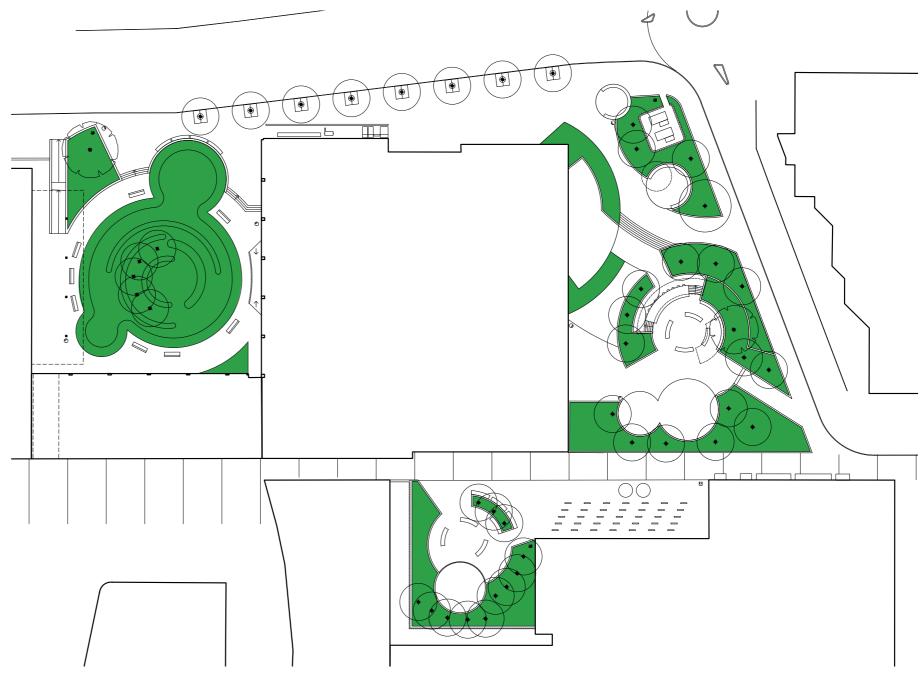
Creating spaces of intimacy, gathering, meeting, connecting ...casual spaces

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Constellation of Spaces - External Flora and Fauna

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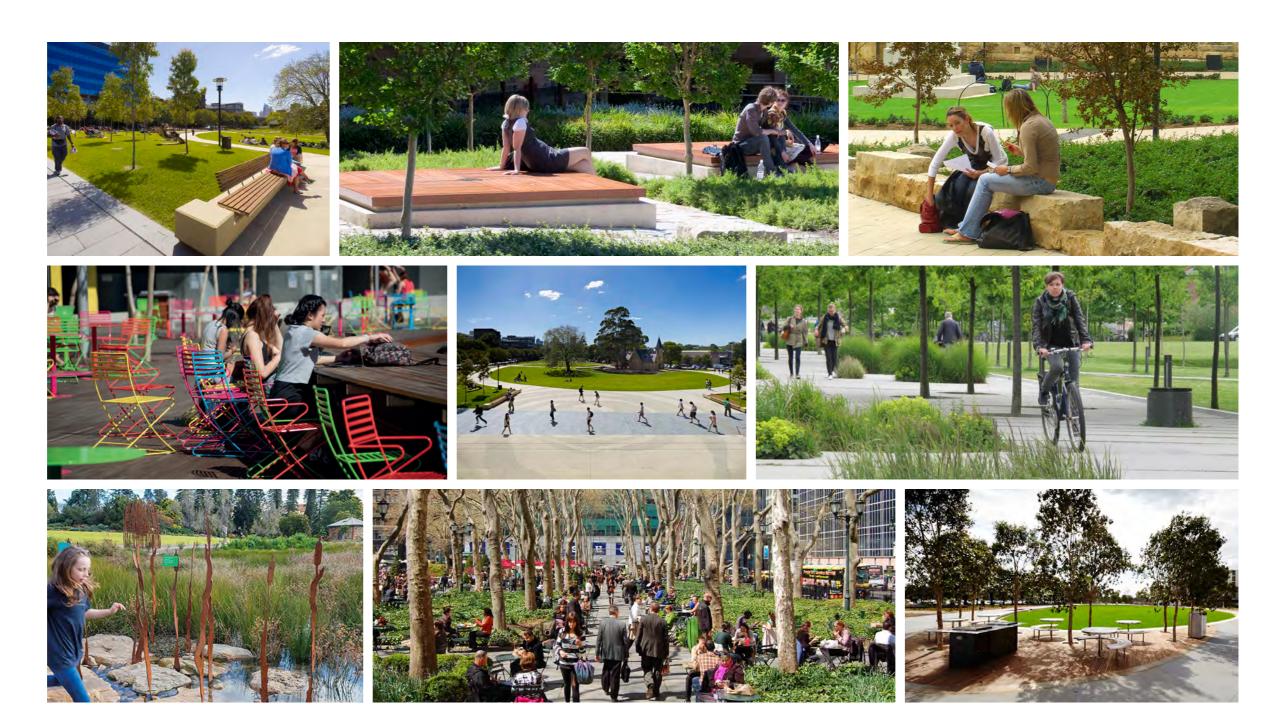
Ground Plane SSDA



Ground Plane
Creation of Destination Spaces not given over to circulation



Ground Plane



External Destination Spaces

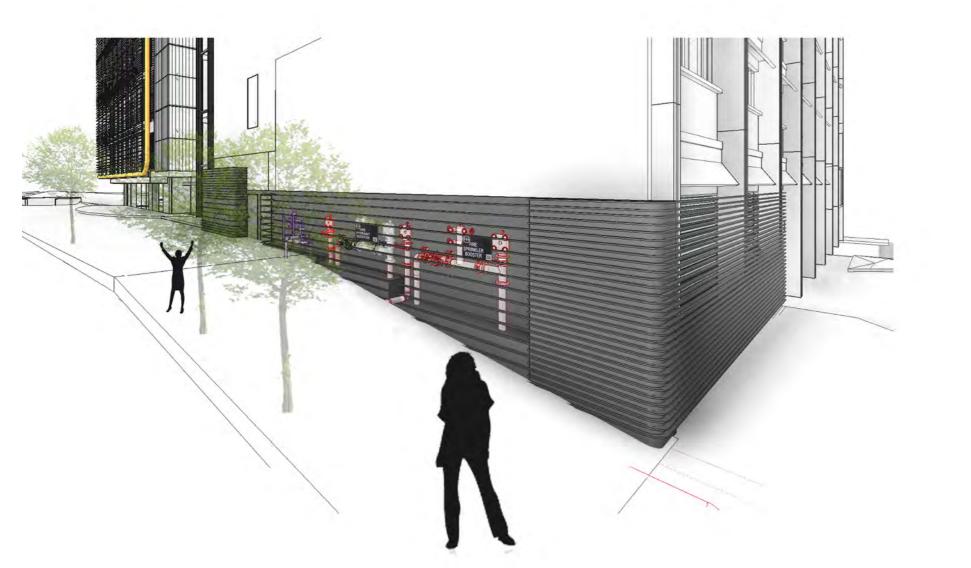
Ground Plane Improved urban edges to the public domain



- Engineering on Display
- Self Directed Learning
- Communication Node



Ground Plane Improved urban edges to the public domain







Ground Plane Improved urban edges to the public domain





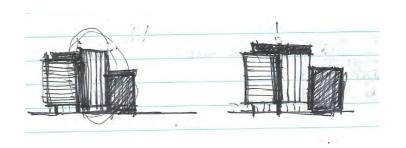




Façade Veil



Refinement of the Roof / Skylight / Atrium & South West Corner Articulation

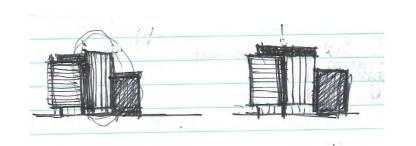


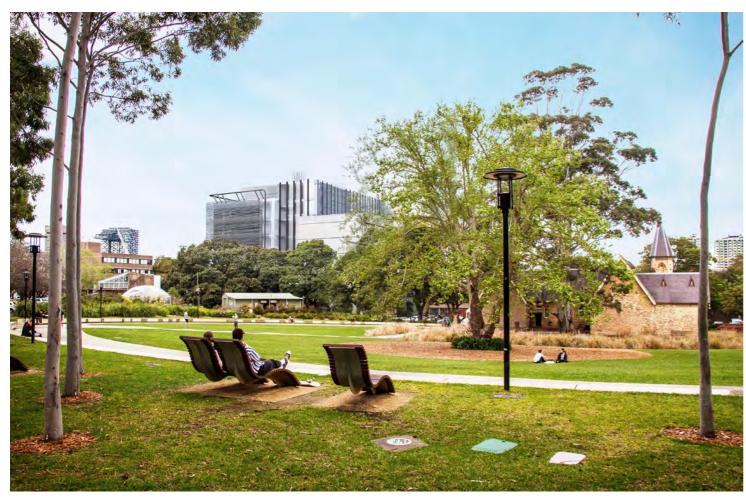


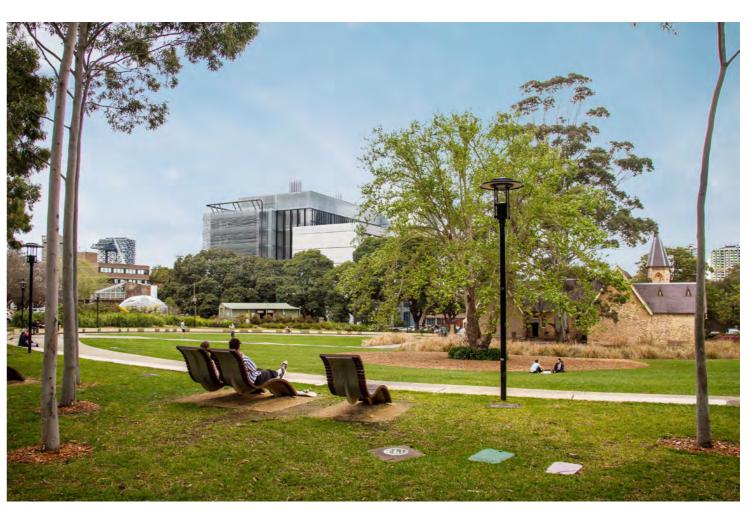


EXISTING

Refinement of the Roof / Skylight / Atrium & South West Corner Articulation

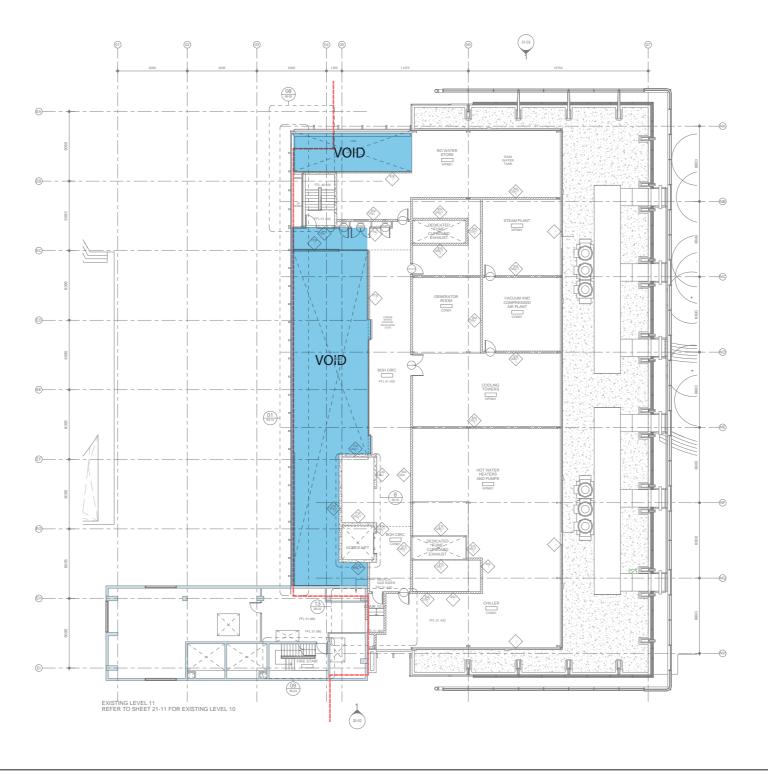






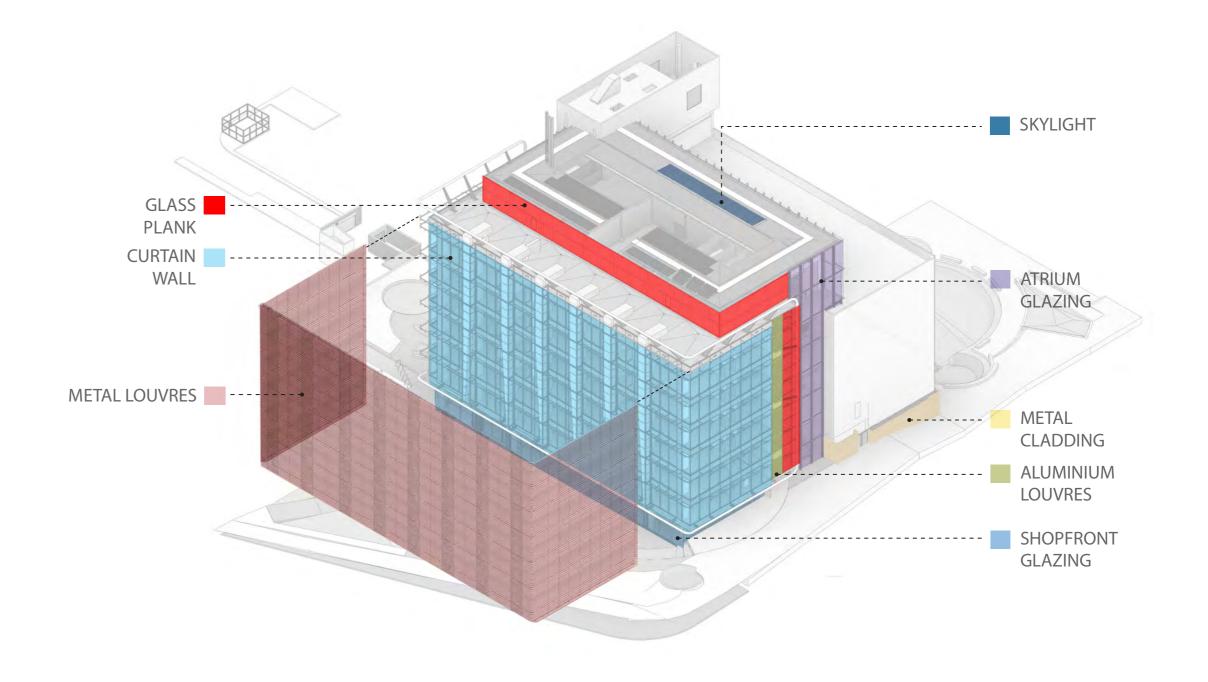
PROPOSED EXISTING

Level 10 Plan

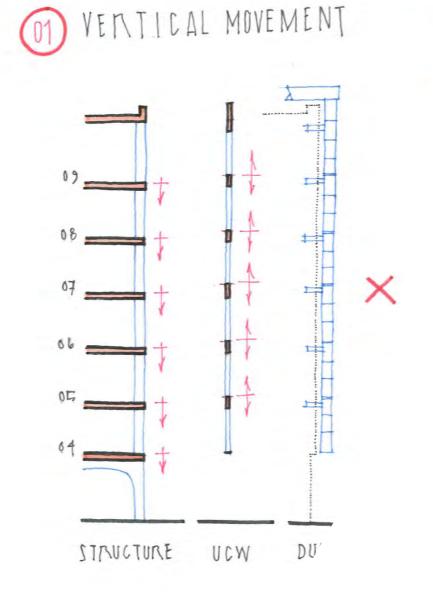


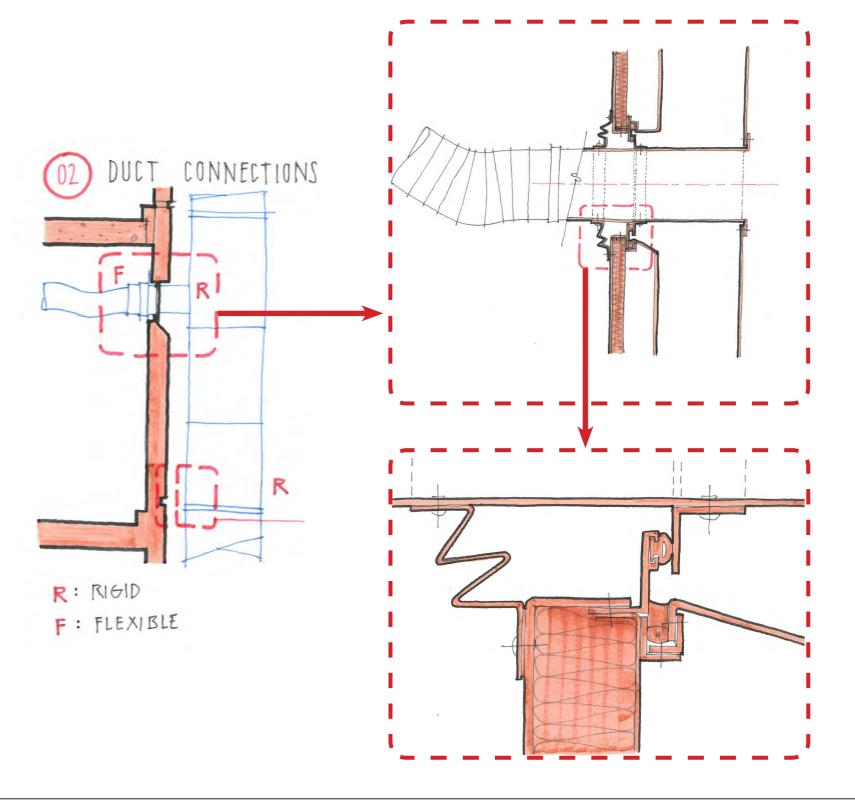
Facade Types

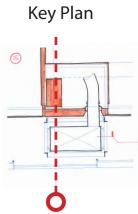


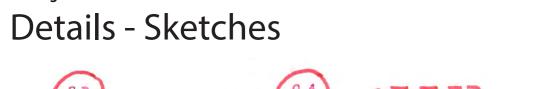


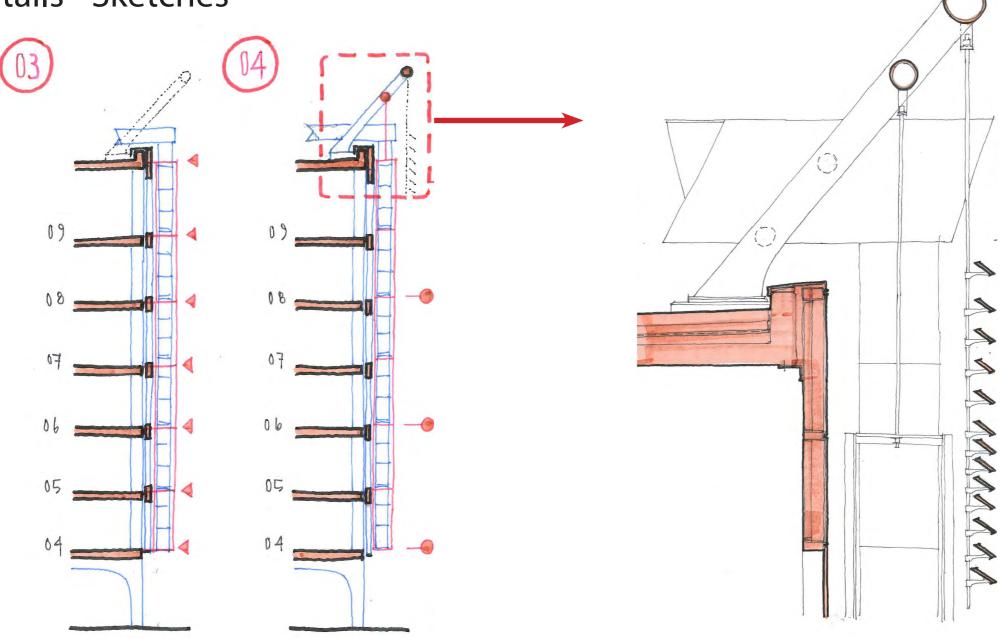
Façade Details - Sketches

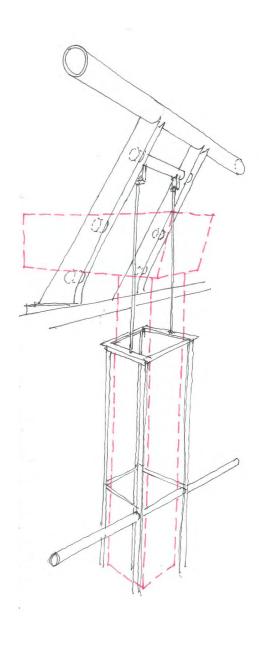




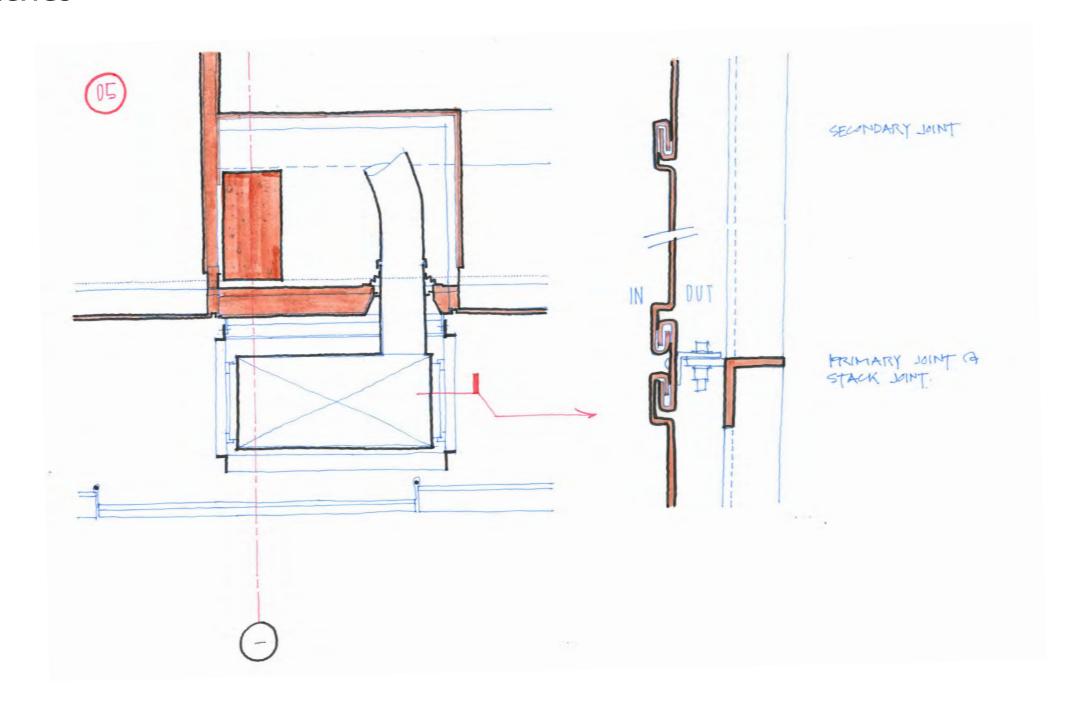




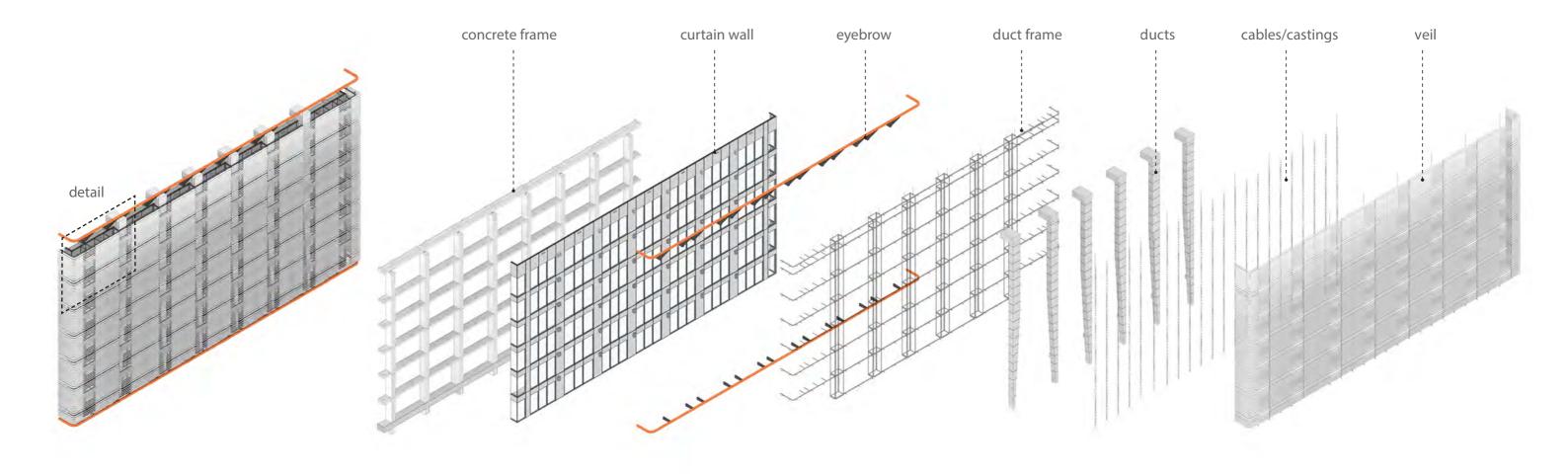


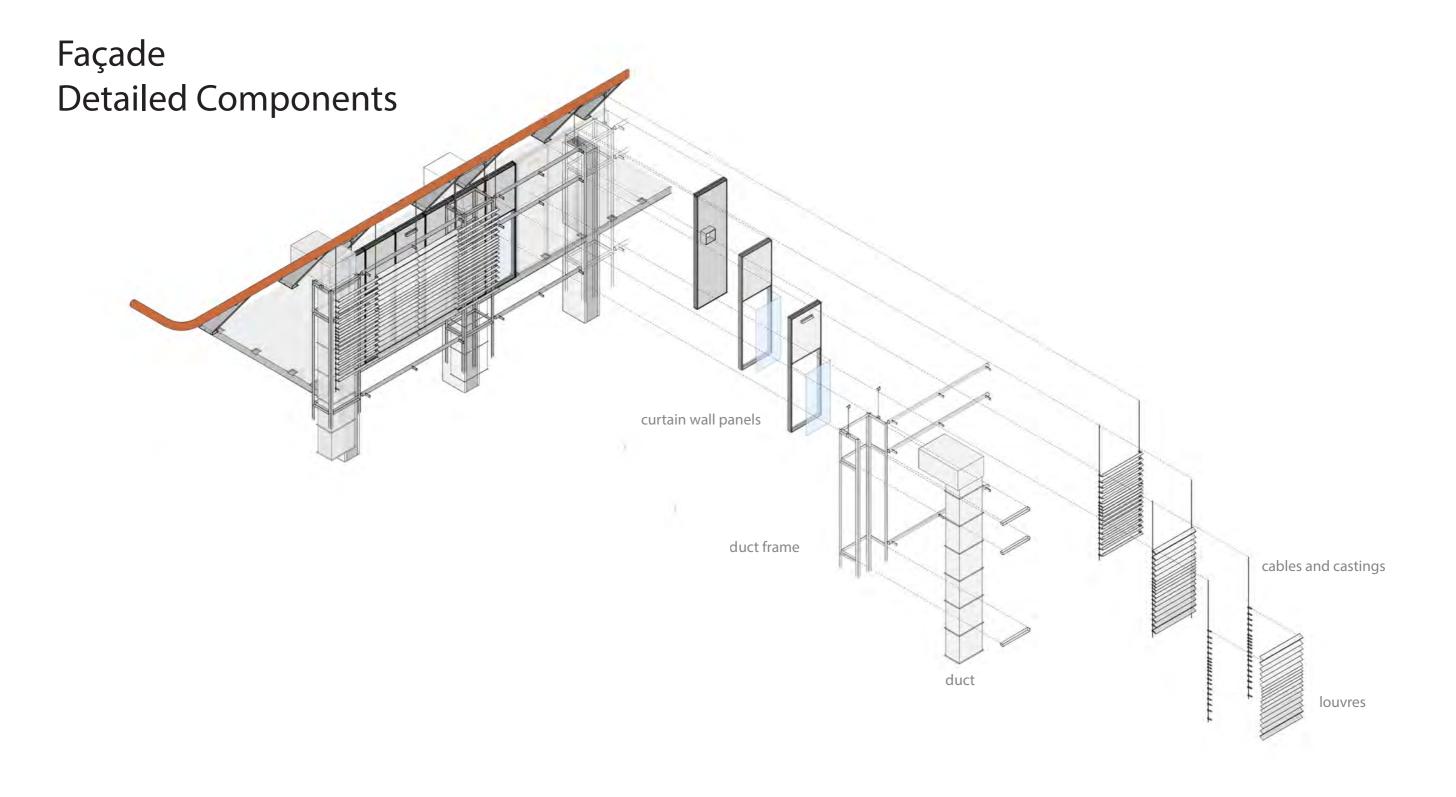


Façade Details - Sketches

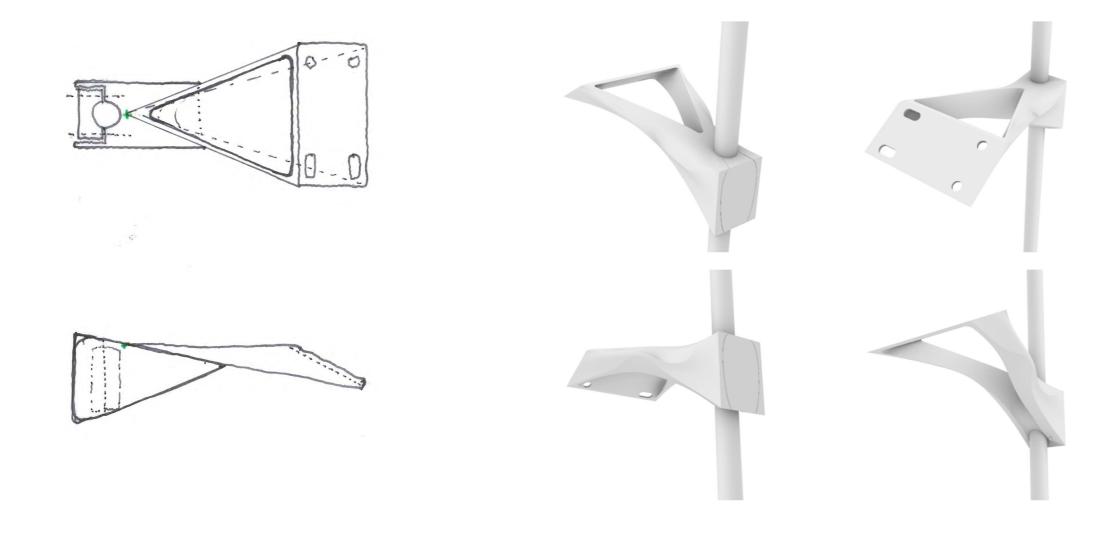


Façade Components



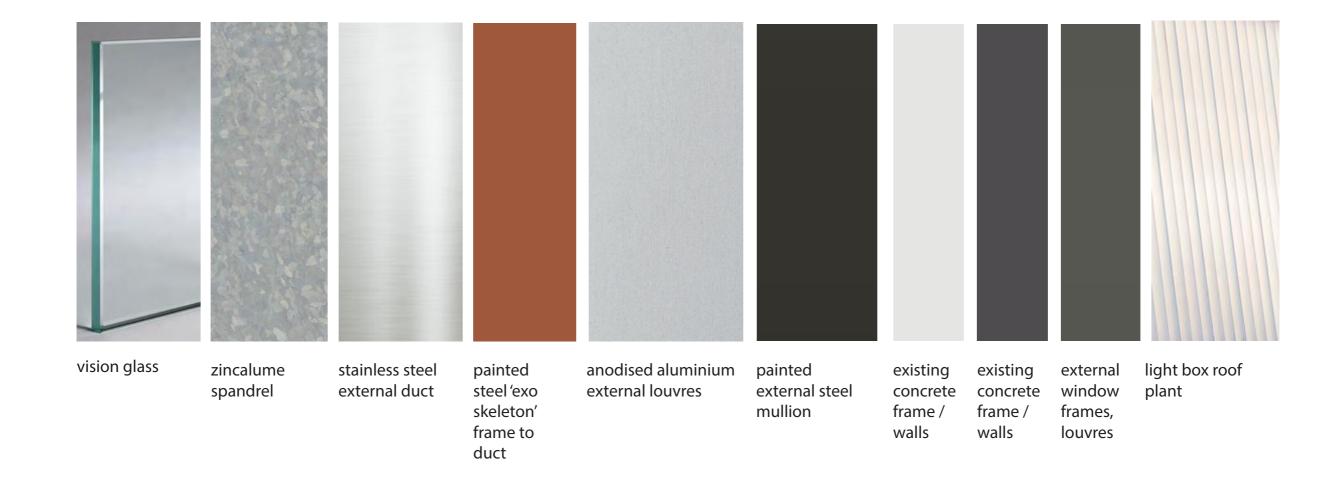


Façade Connection

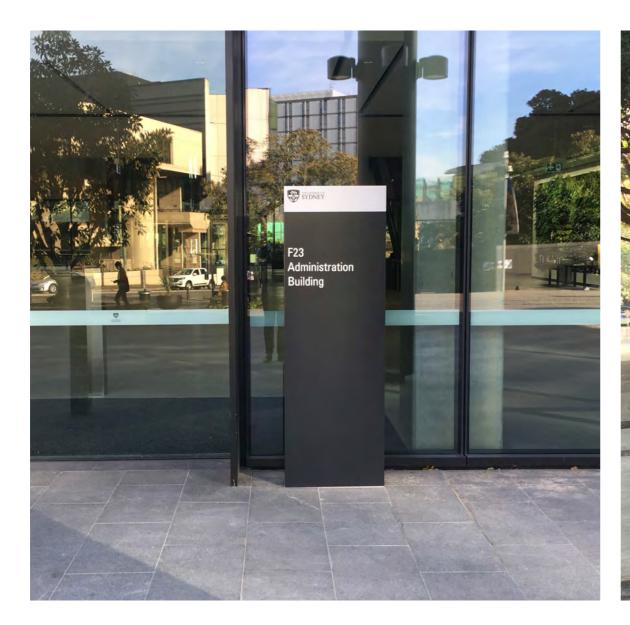


Concept Sketch

Façade Detail of Finishes



Façade Signage Details





Atrium

Atrium Simplified Forms

