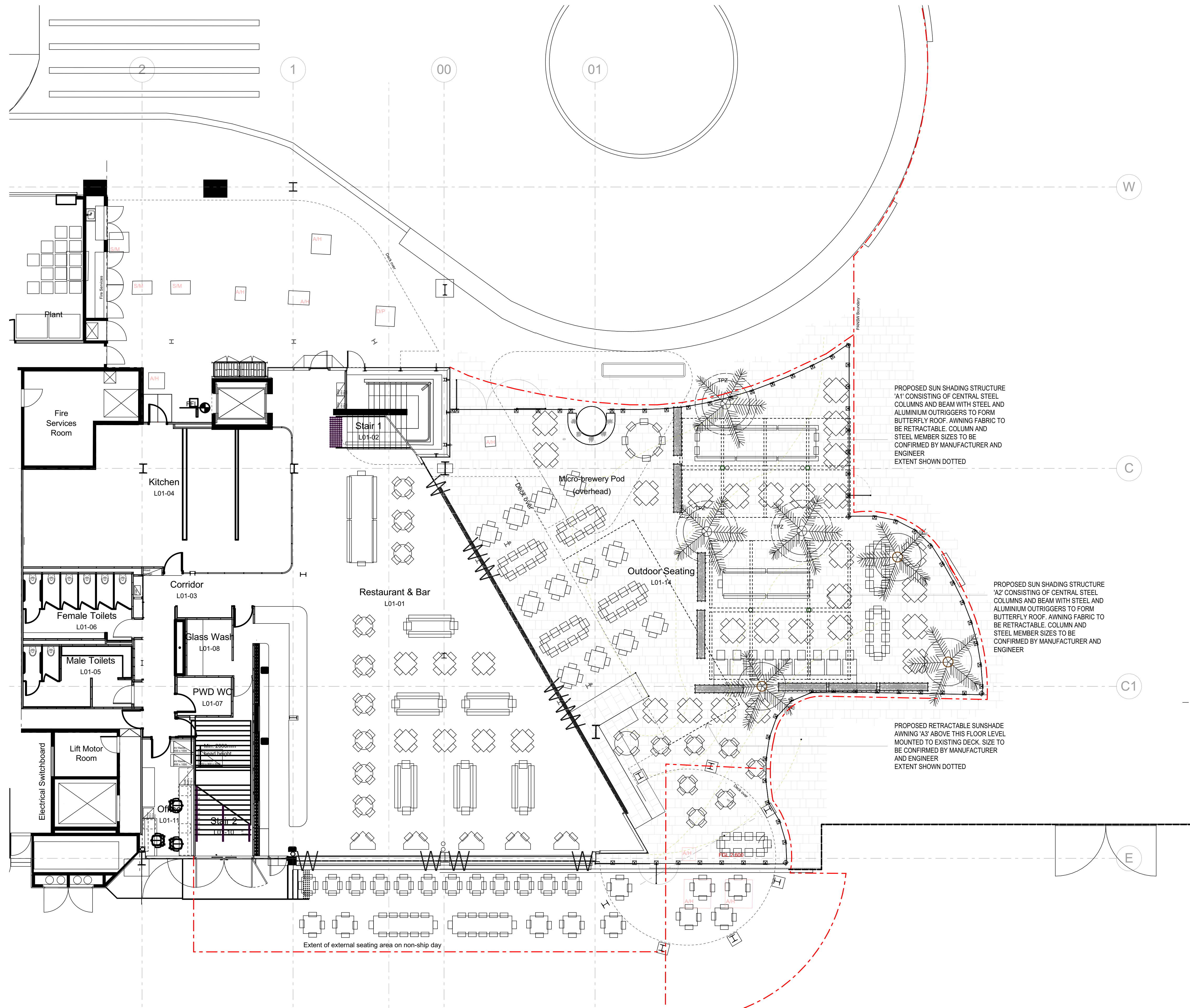




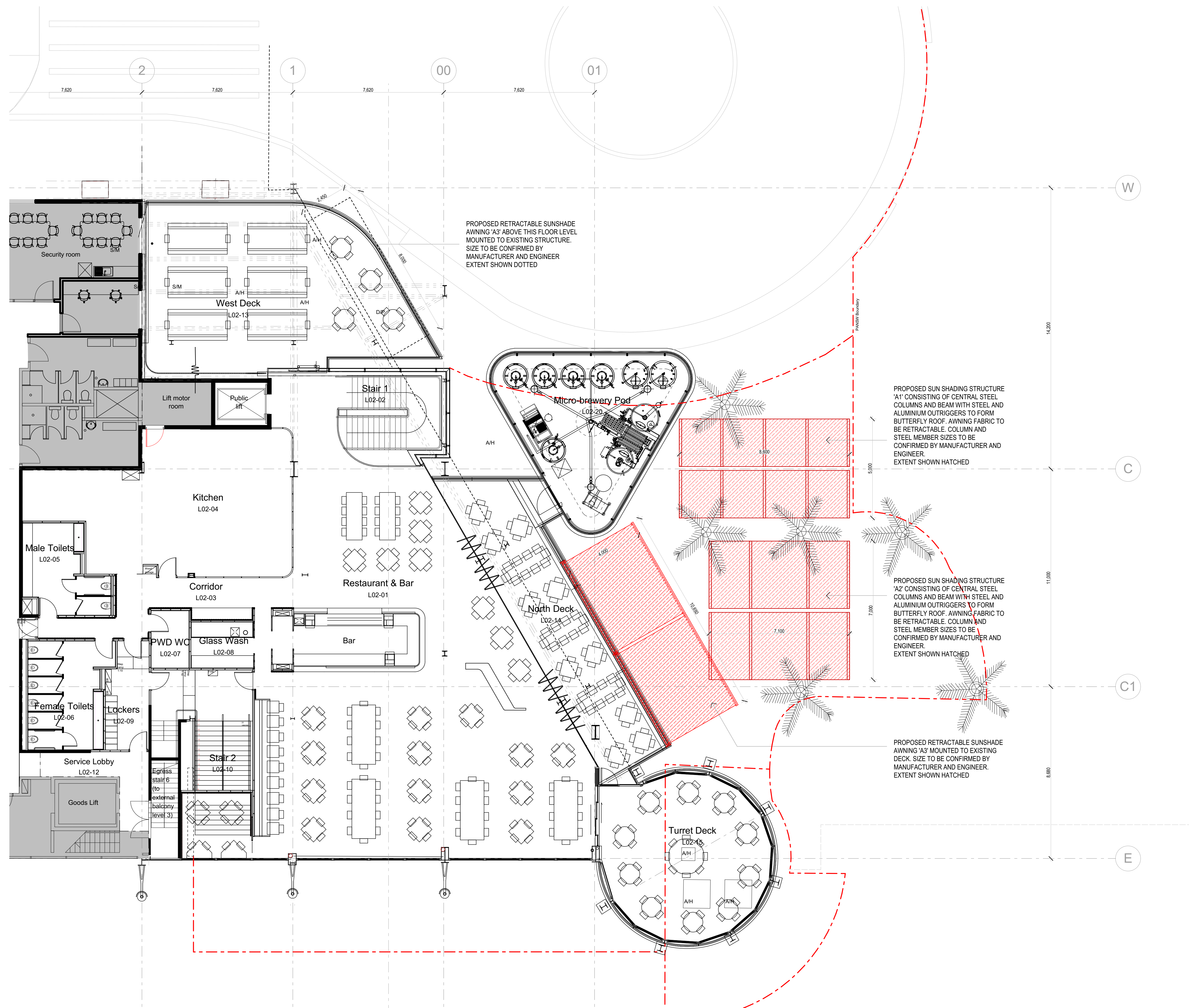
Proposed new Sun Shade Structures and Awnings
Mantle Group and Lion
The Squires Landing
Tenancy 5, Northern Outdoor Area,
Overseas Passenger Terminal, Circular Key

Number	Name
TSL DD - 100 - SK01 A	General Arrangement - Level 01 (Grd)
TSL DD - 100 - SK02 A	General Arrangement - Level 02 (First)
TSL DD - 100 - SK03 A	General Arrangement - Level 03 (Sec)
TSL DD - 100 - SK04 A	Elevations
TSL DD - 100 - SK05 A	View Impact Reference Plan
TSL DD - 100 - SK06 A	View 1 - Existing
TSL DD - 100 - SK07 A	View 1 - Proposed
TSL DD - 100 - SK08 A	View 2 - Existing
TSL DD - 100 - SK09 A	View 2 - Proposed (Extended)
TSL DD - 100 - SK10 A	View 2 - Proposed (Retracted)
TSL DD - 100 - SK11 A	View 3 - Existing
TSL DD - 100 - SK12 A	View 3 - Proposed (Extended)
TSL DD - 100 - SK13 A	View 3 - Proposed (Retracted)
TSL DD - 100 - SK14 A	Awning A4 - Proposed (Extended)
TSL DD - 100 - SK15 A	Awning A4 - Proposed (Retracted)
TSL DD - 100 - SK16 A	Sun Shading Structure Product Informati...
TSL DD - 100 - SK17 A	Retractable Awning Product Information



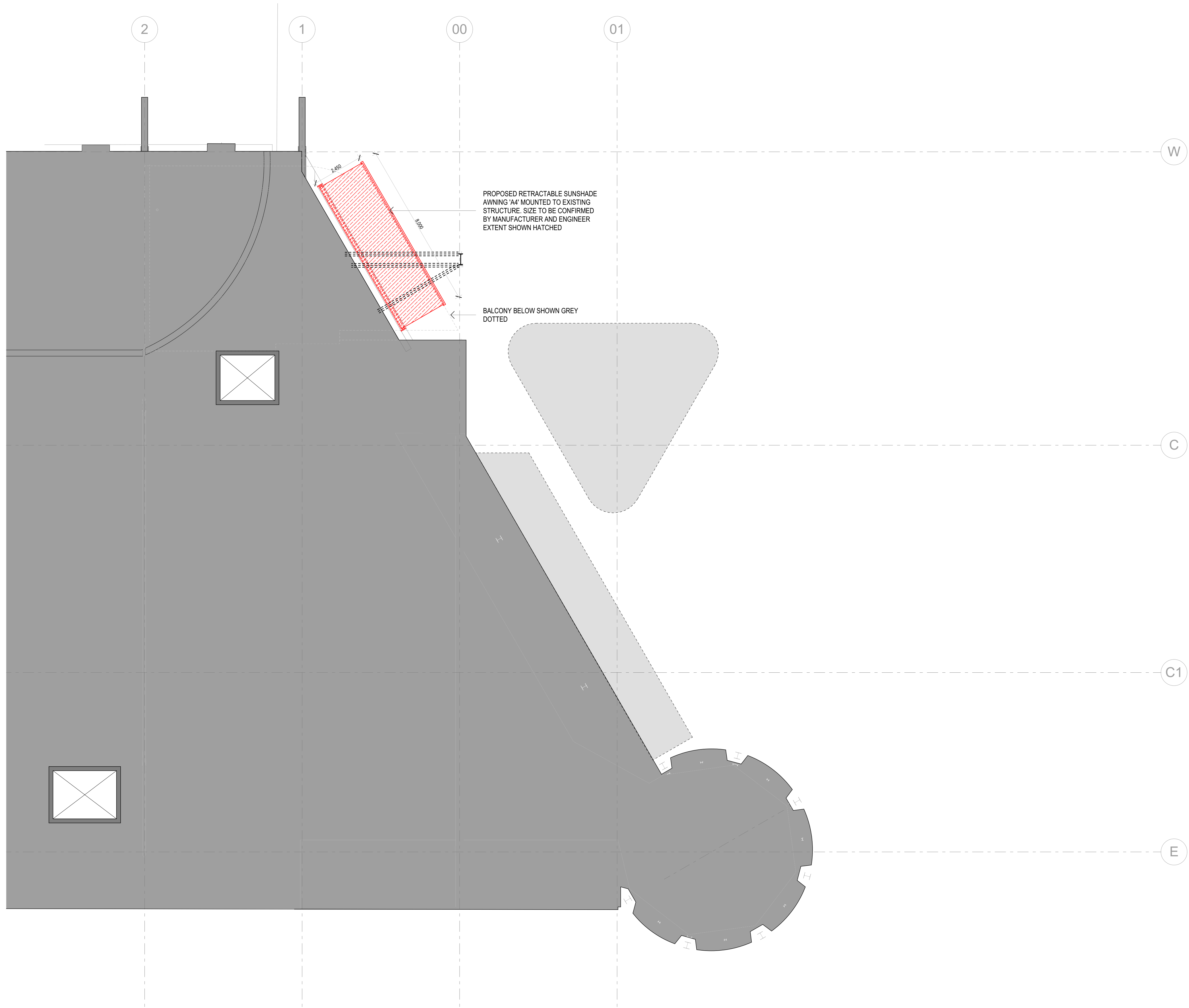
Level 01 - Ground Floor

1:100



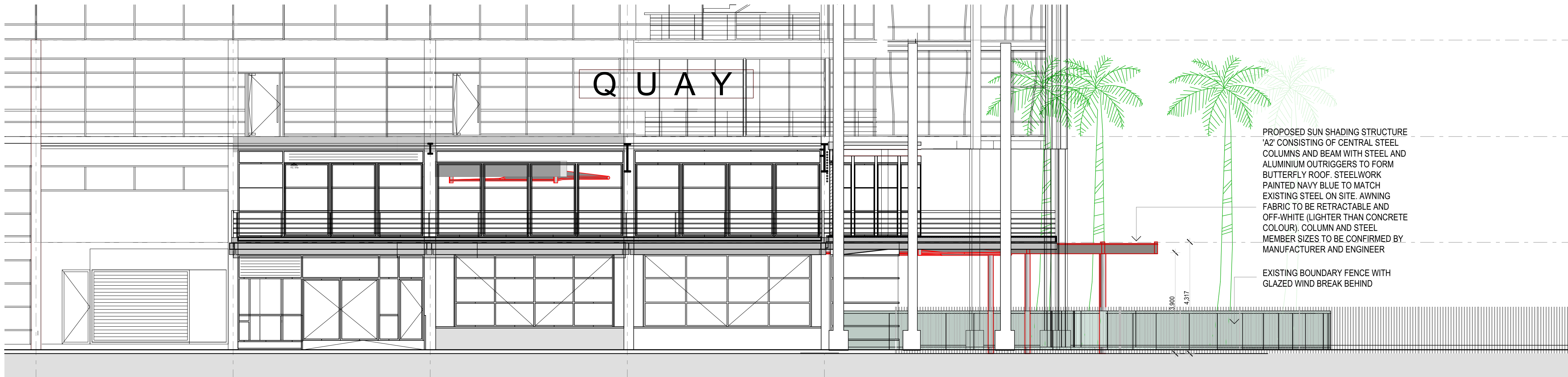
Level 02 - First Floor

1:100



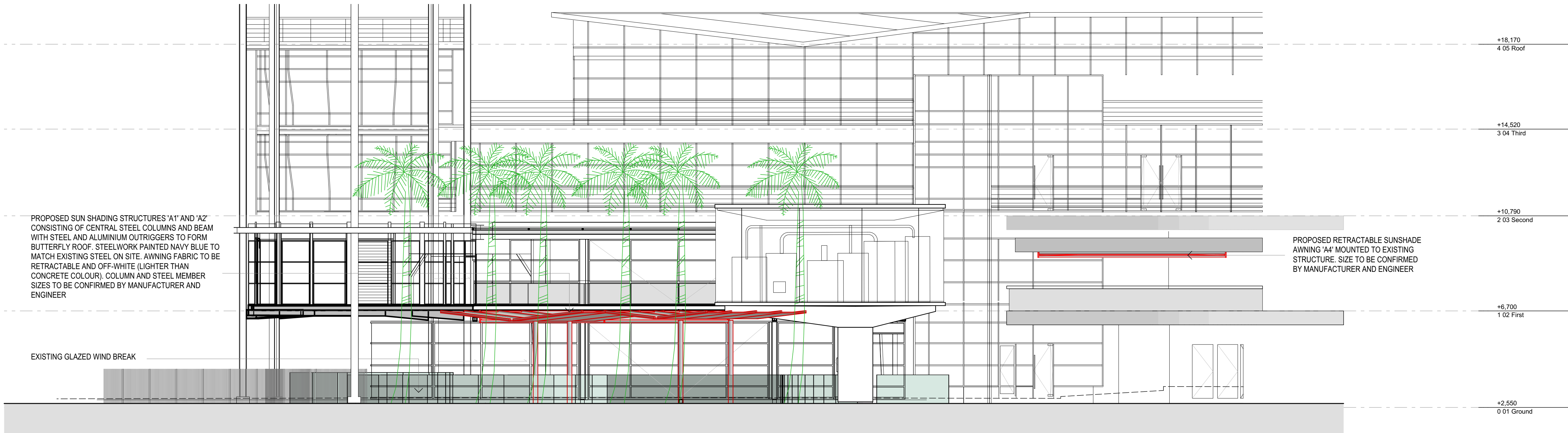
Level 03 - Second Floor

1:100



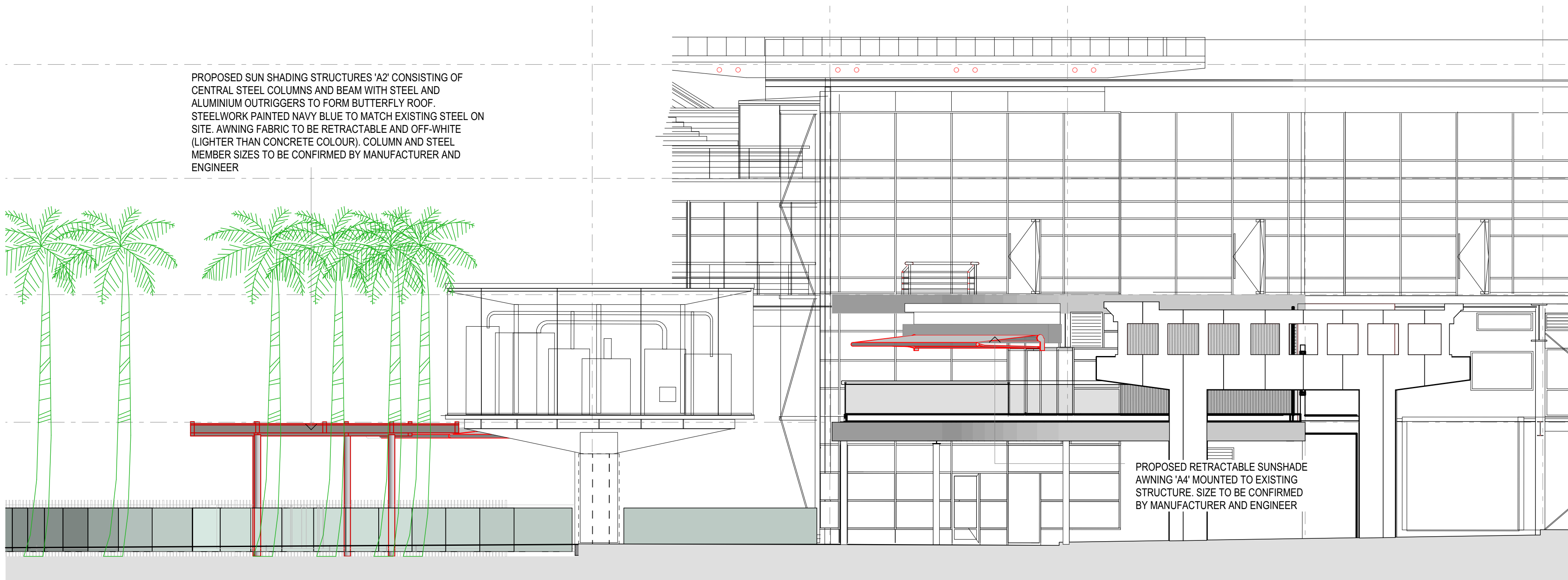
East Elevation

1:100



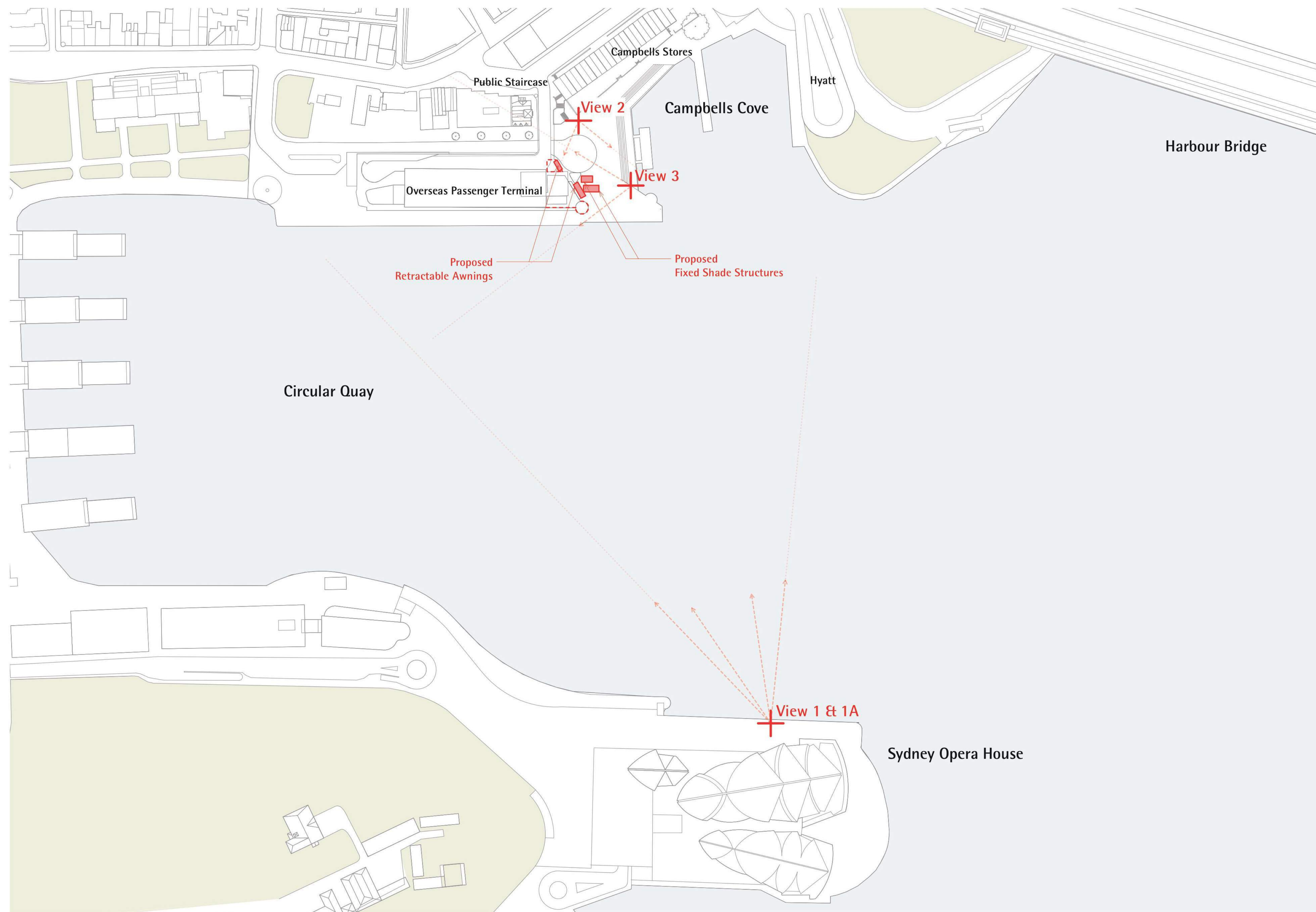
North Elevation

1:100



West Elevation

1:100



Location and View Impact Analysis



View 1 - Existing



View 1 - Proposed



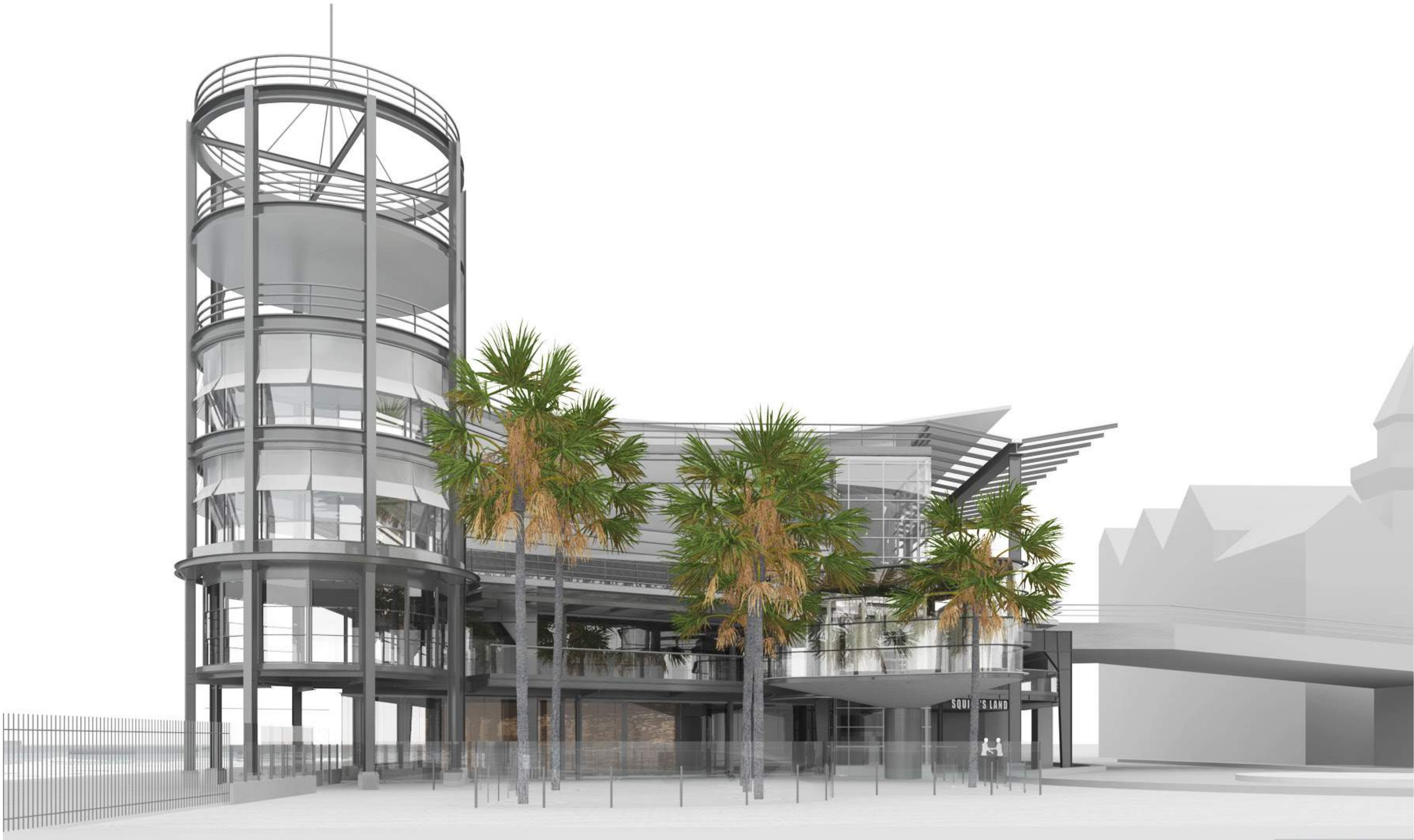
View 2 - Existing



View 2 - Proposed (Extended)



View 2 - Proposed (Retracted)



View 3 - Existing



View 3 - Proposed (Opened)



View 3 - Proposed (Retracted)



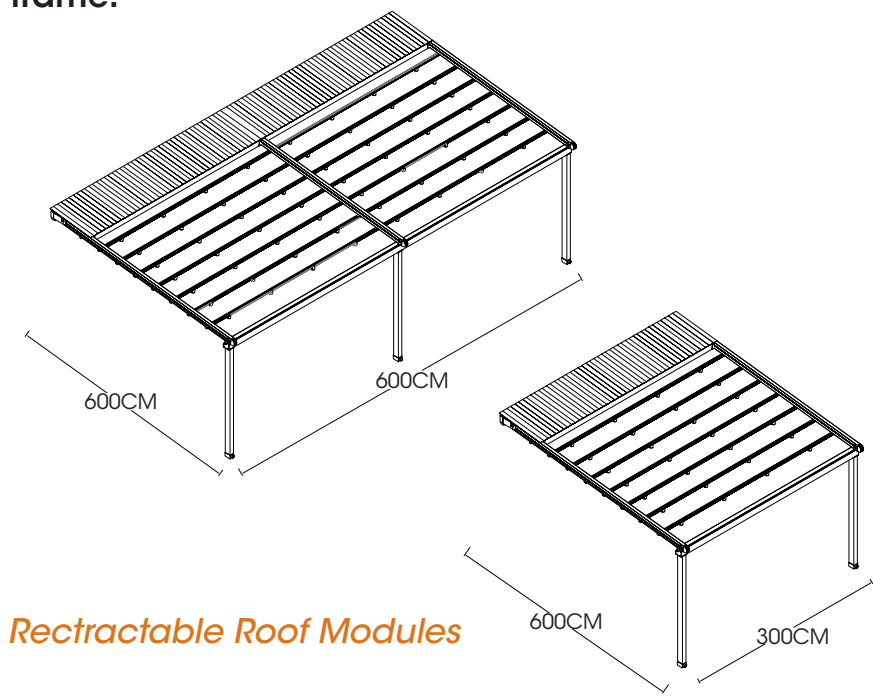
Awning A4 - Proposed (Extended)



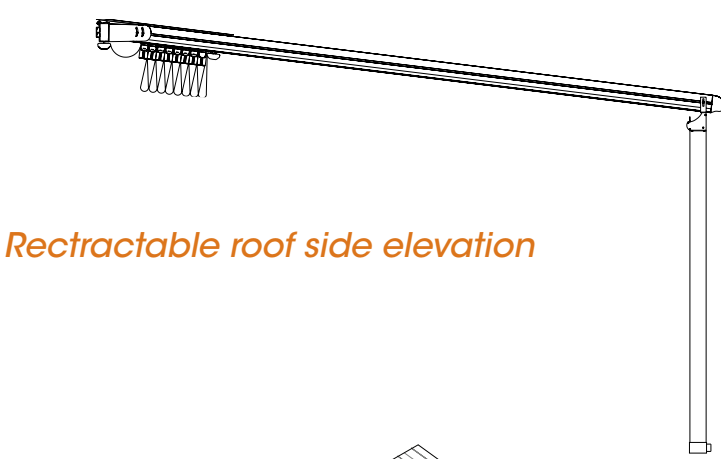
Awning A4 - Proposed (Retracted)



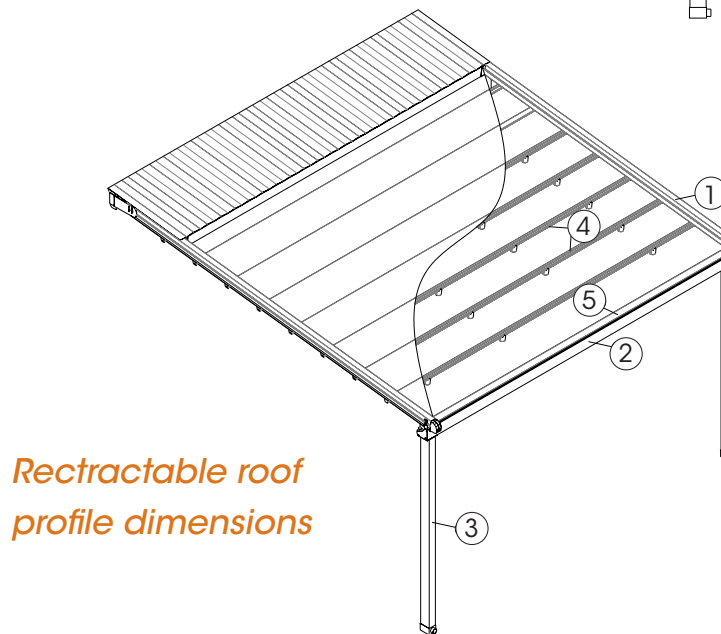
There are various options available in the profiles of the roof structures depending on the required widths and projections; the diagrams illustrate a basic retractable roof on a standard aluminium frame.



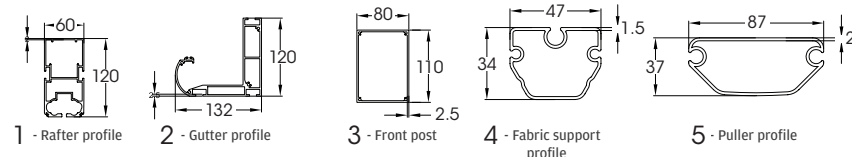
Retractable Roof Modules



Retractable roof side elevation



Retractable roof profile dimensions



When the sun is not the only problem

What is needed in most cases is a structure that not only can provide shade so we can avoid the risk of sunburn, but also protection from high winds and rain so that the outdoor area can be utilised throughout all seasons.

Often umbrellas are installed in courtyards and beer gardens. Whilst they can look quaint and offer some protection from the sun, come winds and rain, the area is no longer useable and businesses can lose half their potential turnover due to the weather, not to mention a backyard barbie total ruined!

Alternately permanent shade structures such as fixed aluminium or Carbolite roofs retain the heat and do not provide any flexibility in controlling outdoor settings. For example, when the sun is lower in the winter months and UV rays are no longer a threat, or on a summer's evening when the stars are out and the breeze is cooler, it would be preferable to open up the roof to allow air movement and to enjoy the outdoor feel without obstruction from an overhead roof.

A retractable option for the roof is a solution that has in the past often been overlooked, perhaps because retractable roofs are a relatively new product in the Australian market. As with most innovative sun/ shade products, they originated in Europe some 20 years before reaching our shores about a decade ago.

A roof that retracts...a smart solution

A retractable roof (or retractable pergola) is a motorised, openable roof system that concertinas back to open up the area beneath the roof. The membrane is made of PVC coated polyester and travels along a light weight track system. When extended, the roof is held under tension making it extremely resilient to winds (up to 100km per hour) and rain. Generally, the roof is supported by a powder coated aluminium pergola type structure, which is standard and widely available from most suppliers. However, custom structures are becoming popular with architects and designers making the roofs more diverse and aesthetically compatible with the buildings and their environments.

The benefits of the retractable roof are that not only does it provide sun, wind and rain protection, but gives the user versatility in how they interact with the elements as well as the ability to furnish the area without the concerns of damage from the sun and rain.

Side screens can be attached the roof systems to allow for total protection from the weather, effectively creating an outdoor room that can be completely opened or closed when necessary.

Roofs that stand out from the rest



Aalta Australia not only provides these standard roofs but specialises in supplying the retractable roof component on custom-made structures, such as timber pergolas, dual posts, stainless steel or existing frameworks. This allows architects and designers a lot more freedom in their designs, integrating seamlessly the outside area with the building's style and function.

The following projects illustrate the adaptability of the retractable roof system with different frames custom-made to suit the area.

◀ **Office Building, North Sydney** – this freestanding timber structure was custom-built with the retractable roof providing shade and protection from the rain. Being a high wind area, the retractable roof was an ideal solution as it can be left extended without the risk of being damaged. The timber frame is juxtaposed from the steel and glass of this modern office building, allowing the staff to enjoy a more relaxed atmosphere during lunches and functions away from the stresses of the business that take place behind the glass.

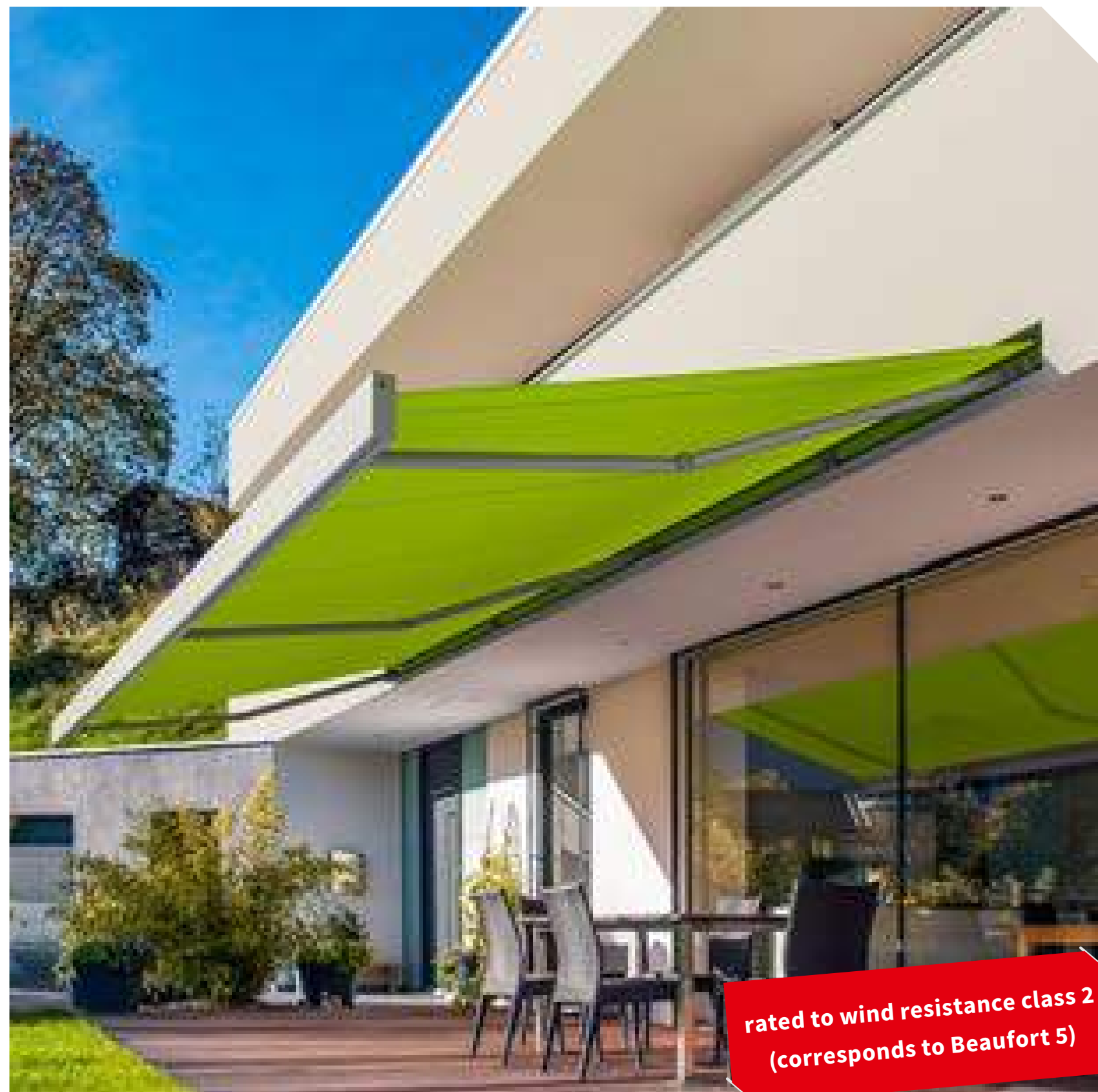
◀ **Oxford Falls Grammar School, Oxford Falls** – three retractable roofs were installed – each at 7m x 9m with the timber frame ensuring that the roof fitted in with the natural environmental surrounds. Each roof works independently via a multi-channel remote control, giving the school flexibility in its use. Gas heaters were also installed to allow the school community to utilise the area throughout the year.

◀ **Residential home, Brooker Bay** – the three-runner system is supported by dual stainless steel posts. When retracted the structure reflects and complements the marine location with its piers and bridges, boats and masts. As with all retractable roofs, the PVC coated polyester fabric maintains its integrity even in such a harsh environment.

◀ **Manly 16ft Skiff Club, Manly** – Retractable roofs cover 110sqm comprising of eight motorised systems individually operated. Each roof is approximately 13.75sqm with separate remote controls allowing for individual operation and customisation of light control for morning and afternoon sun. The steel frame which the roof systems are supported by was engineered to withstand the high winds common to harbour side areas. The new roofs continue the roof line of the original historic boat sheds, marrying the new and old. Lighting, heating and external glazing were incorporated to provide comfort and ambience to the patrons, essentially creating an outdoor room.

Full brochure and manufacturers contact details available upon request

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markilux 3300 pur

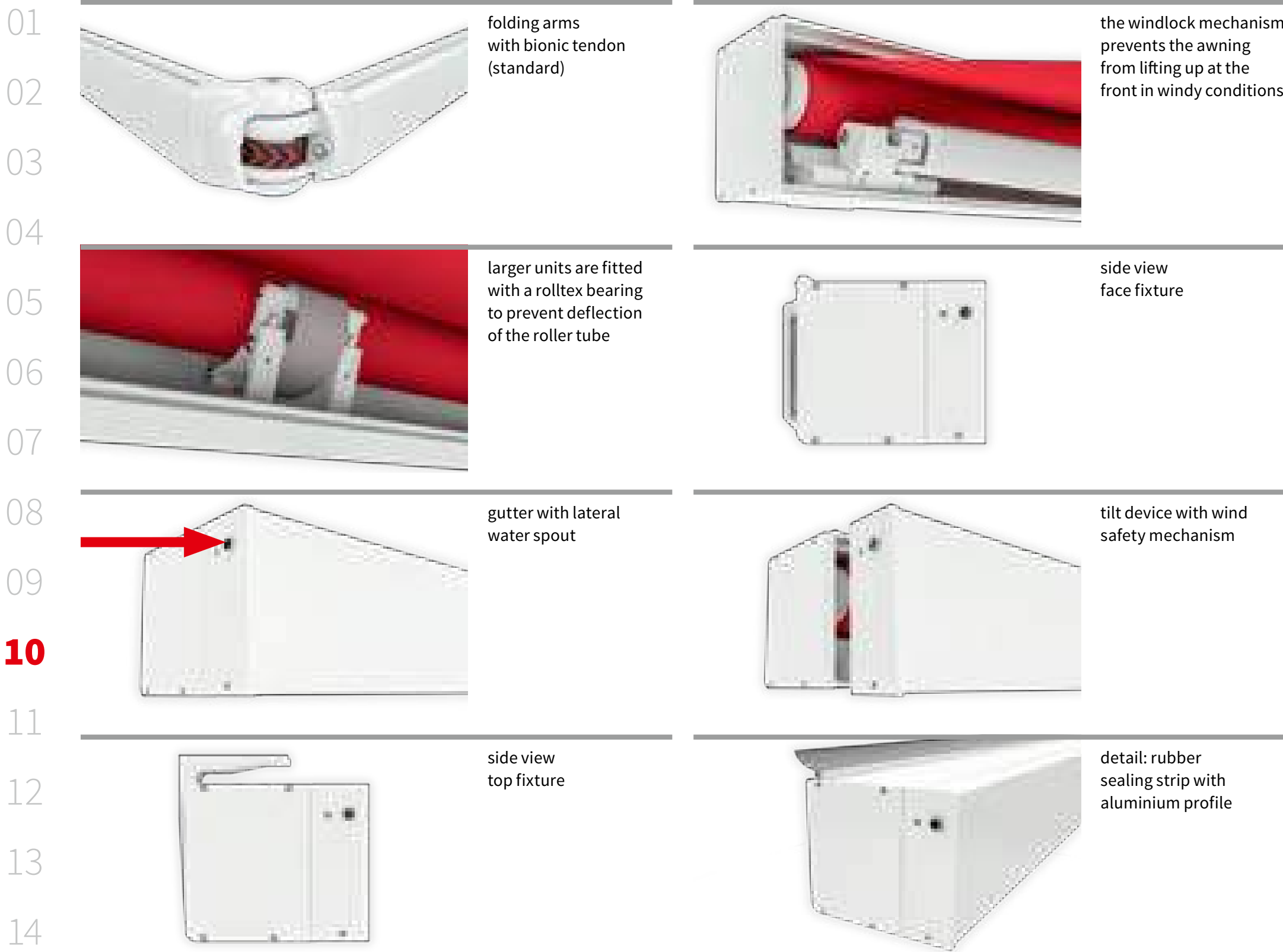
Simple and straightforward design up to 400 cm extension –
with smooth front profile and wall seal

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INNOVATIONS 2017



Design Features

- the sturdy compact cassette with the perfect seal to the wall
- elegant and robust front profile made of aluminium
- self-supporting cassette made of extruded components
- full cassette awning: when closed all components are fully protected from the weather

Technical Specification

- the front profile with integrated double gutter ensures that water flows off to the side of the awning whether it is open or closed
- the 85 mm roller tube ensures the highest stiffness and the best possible cover winding characteristics even at the largest widths
- the extremely sturdy awning construction makes it possible to shade even very large areas safely
- unique arm technology with power transference using bionic tendon made of high-tech fibres with extremely high tensile strength. Tested by The Fraunhofer Institute

Accessories

- radio-controlled motor with radio remote control for ease of use
- hard-wired motor operation (optionally with automatic weather controls) for straightforward and easy operation
- in the case of manual operation ease of use is ensured with the spring-assisted gearbox
- awning available in non-standard RAL colours
- available with a valance
- wall seal using aluminium / rubber sealing strip

162 | Special features

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Full brochure and manufacturers contact details available upon request