

and the City of Sydney Lights Design Code. For further information please refer to the Illuminated Facade - Technical Aspects document (Lend Lease).

For further information regarding management and curation - refer to the Lighting management plan (Ramus Illumination).

Environmental Impacts

For the purpose of this report, a 500m view shed zone has been analysed to review any potential impacts on adjacent context (refer image 4. 500m Location plan). 500m has been selected as it encompasses an area from the building across the valley floor of Darling Harbour up to the ridge of Harris Street. It should be noted that the majority of views from surrounding buildings and context beyond 500m are substantially blocked from the elevated freeway structure (to the north) and the Exhibition Centre on the western edge of Darling Harbour.

The immediate built context of the art work is composed of either;

- Existing public domain;
- Commercial or special use buildings (such as the Exhibition and Convention Centre, Ian Thorpe Aquatic Centre, Global Switch data centre, Power House Museum, Novotel Hotel, Entertainment Centre and car parking facility);
- Freeway infrastructure, or
- Medium density residential buildings.

(Refer image 3. Context).

The following summarises the anticipated effect on each of the surrounding development types.

Public Domain Impact (images A-C)

The immediate context of the proposed artwork consists of the urban parkland of Darling Harbour and the Chinese Gardens and the new public domain and children's play space associated with the Darling Quarter upgrades.

It is anticipated that this public artwork will be a highly contributory layer to Darling Harbour and the existing cultural and public uses of the area. It is considered that the proposed public art work will not impact negatively on the public domain.

Commercial / Special Use Buildings (images D-J)

The western and southern edges of Darling Harbour are framed by special use buildings and commercial

buildings including (to the west) the Exhibition and Convention Centre, Ian Thorpe Aquatic Centre and Global Switch data centre. The southern edge contains the Powerhouse Museum, Novotel, Entertainment Centre and public carpark. It is envisaged that the proposed art work will provide a limited or negligible impact, and in contrast it is considered that the proposed artwork will provide a benefit to the workers and visitors by providing an after hours cultural experience which adds to the night time life of the city.

Residential Impact (images K-L)

The nearest residential developments to the proposed artwork are the M Central / Goldsbrough and Bullecourt Place medium density which are approximately 510m and 380m away respectively. The lighting art work is mostly obstructed from these residential buildings by the Exhibition Centre and Western Distributor freeway. Only the upper levels of the apartments (level 6 +) would have the opportunity to view the art work. As the lighting art work is a non directional light source with lighting effect similar in intensity to that of an illuminated city building, it is anticipated that the impact is low or negligible.

Freeway / Streets (image M)

The Southern portion of Darling Harbour is bound by the elevated Western Distributor (to the north) which provides east/west circulation to the city and the cross city tunnel, and on the south by Pier Street.

Travelling east bound the art work is only viewed obliquely and momentarily on approach to the cross city tunnel and city entries. It is not in the direct field of view and frequently screened by the west bound freeway structures. Travelling west bound it is not visible for the driver.

Travelling east bound on Pier Street (on approach to Goulburn Street) the facade is only momentarily in view.

As the lighting art work is a non directional light source, it is anticipated that there will be low or negligible impact. Moreover, no glare or light spill is anticipated.

Fauna

It is not anticipated the proposed art work will pose any impact on existing fauna.

Compliance

The art work complies with AS4282 - 'Control of the obtrusive effects of outdoor lighting' and light levels will be substantially below the technical parameters of AS4282 for curfew and pre-curfew hours. For further information refer to the Illuminated Facade - Technical Aspects document (Lend Lease).

Summary Recommendation

The proposed artwork is considered to have a low environmental impact on the surrounding context. It is however considered to have a positive contribution to the cultural landscape of Darling Harbour, and will provide an exciting addition to the night economy of Sydney.

Darling Quarter Digital Façade Structure

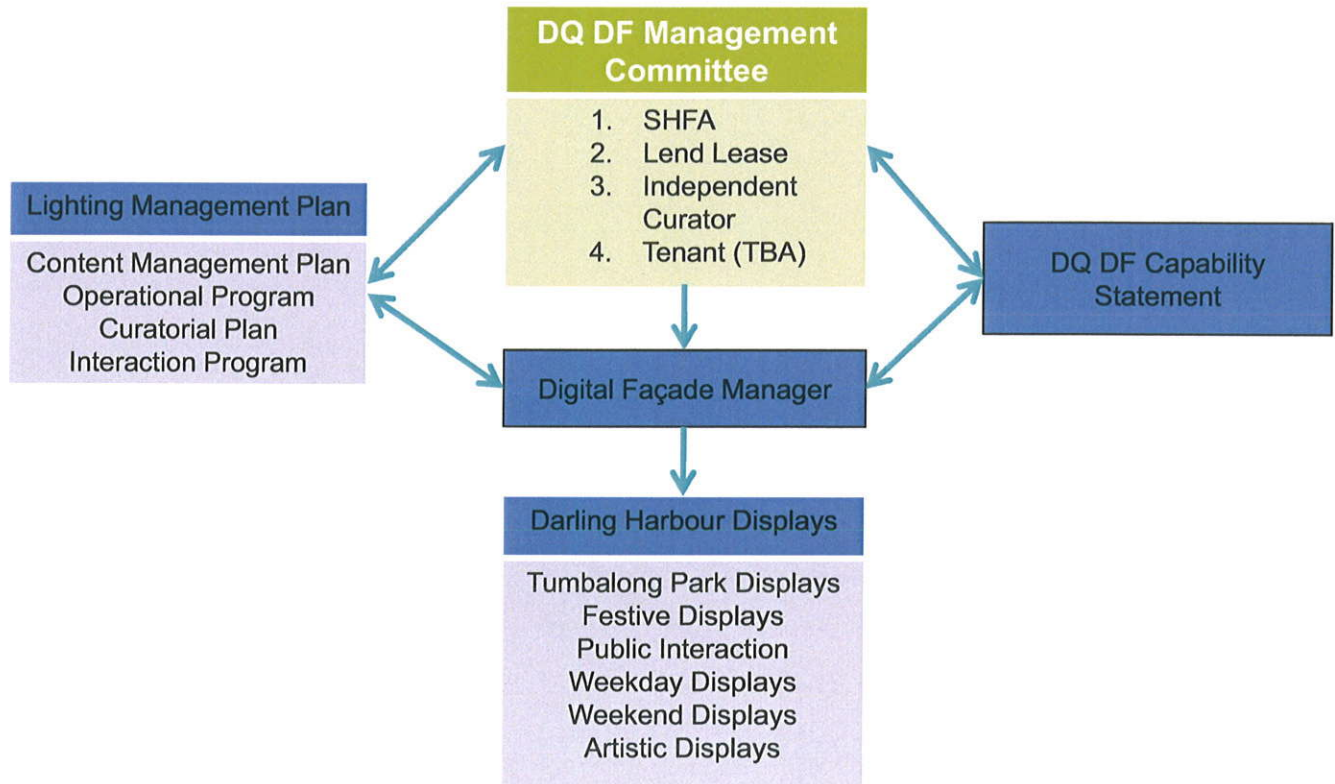


Image 1. Management Committee structure

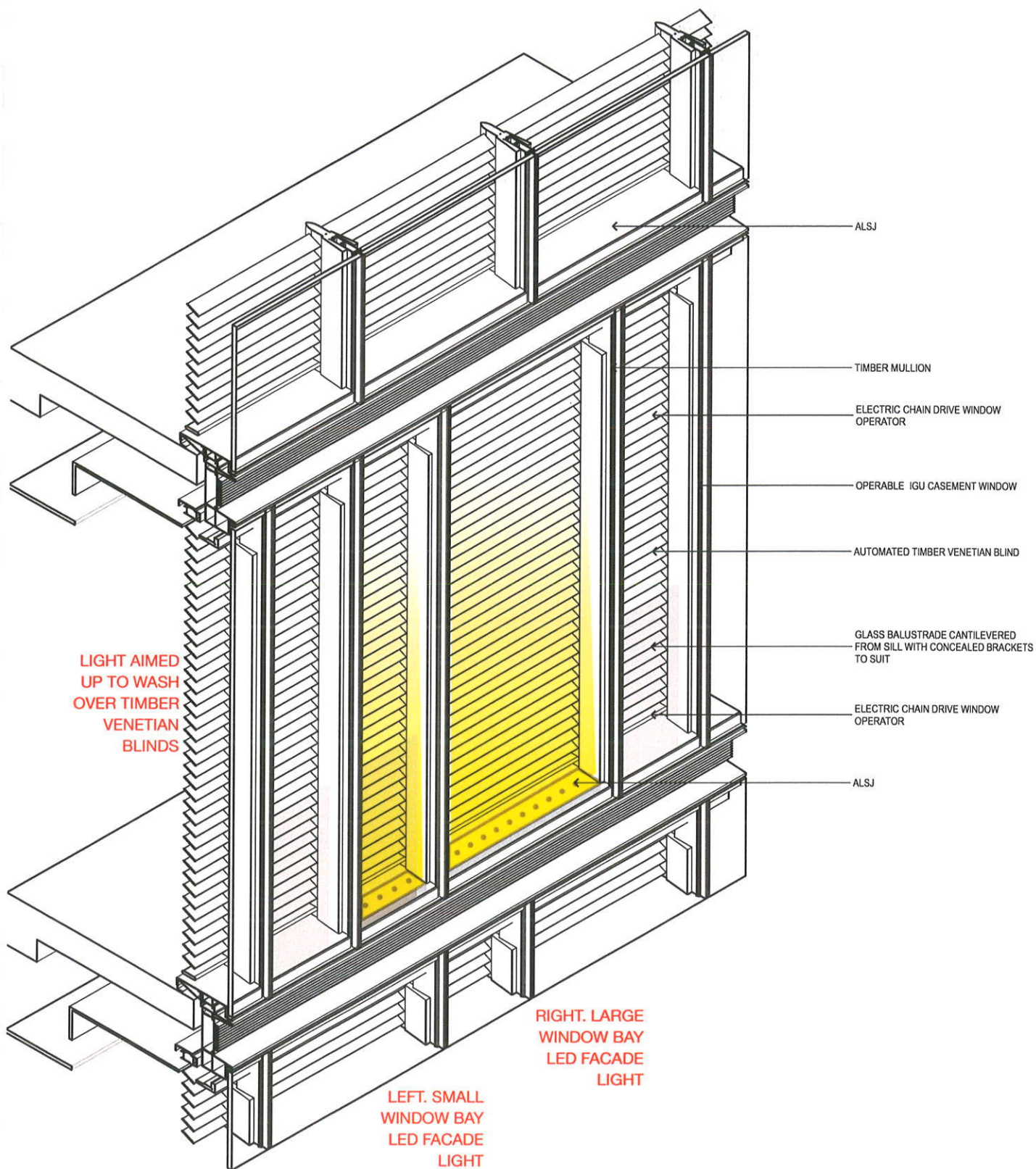


Image 2 Facade Lighting axonometric

Detail: Francis-Jones Morehen Thorpe
(FJMT)

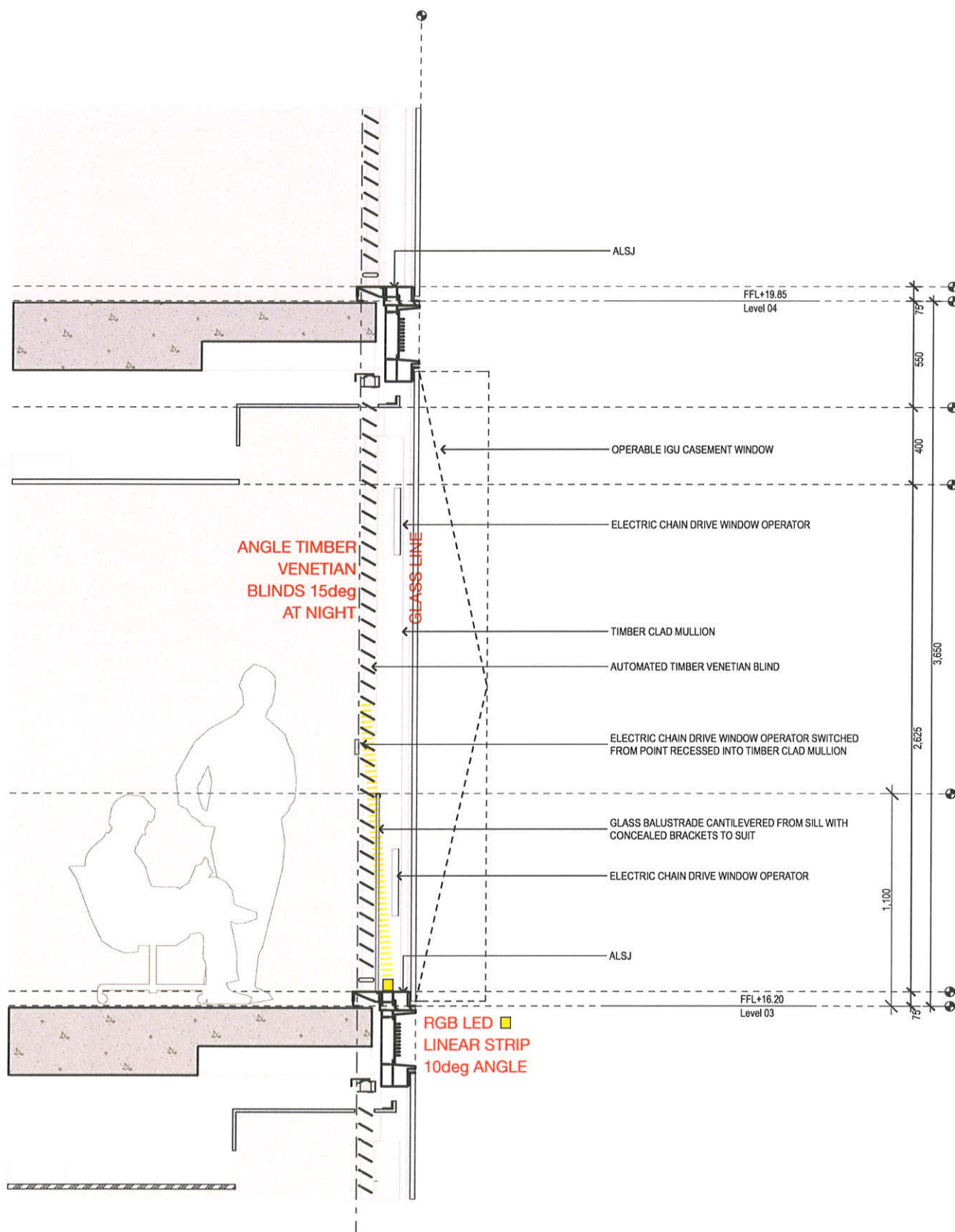


Image 2.1 Facade Lighting detail

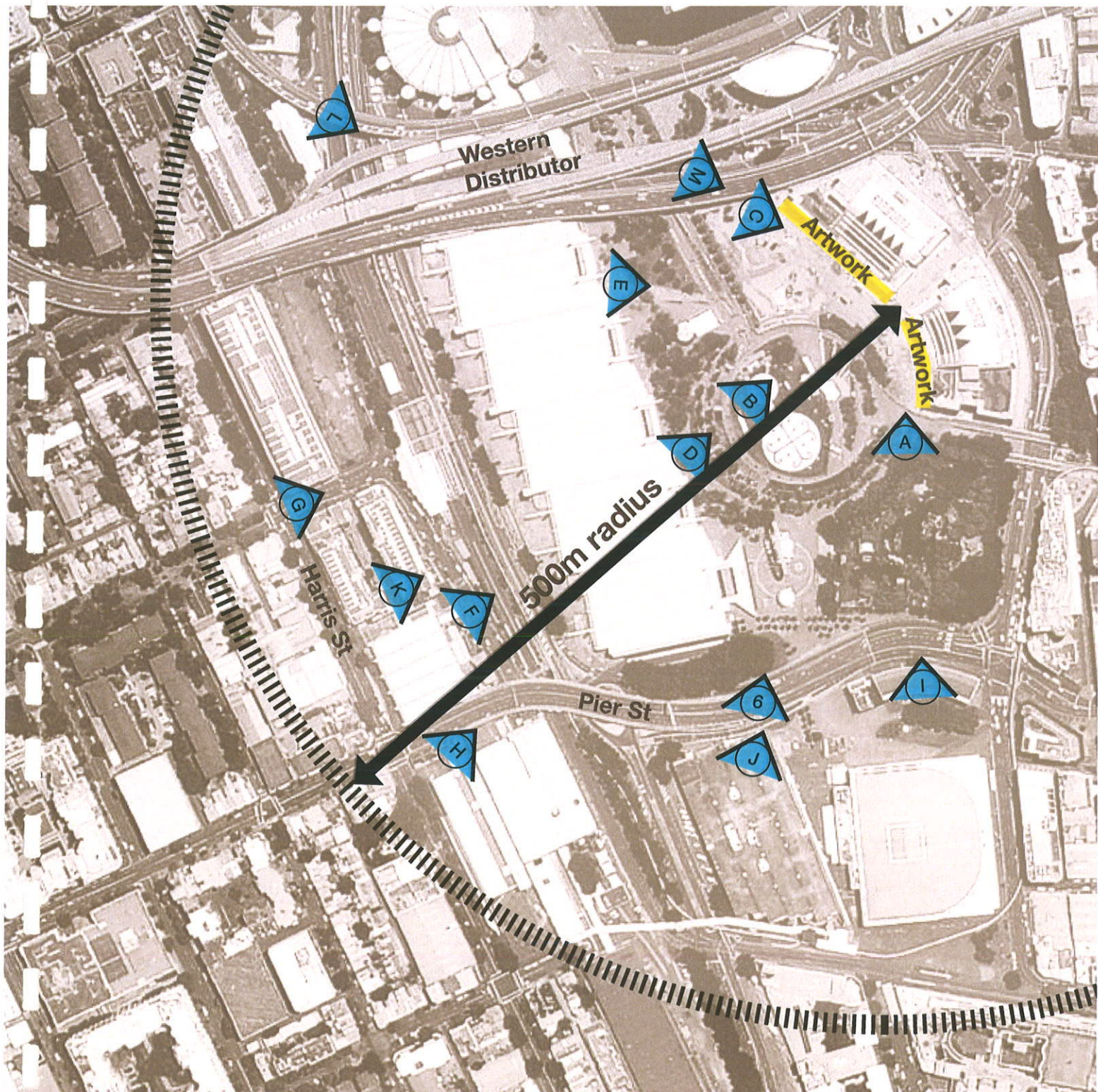
Detail: Francis-Jones Morehen Thorpe
(FJMT)



Image 3. Context

PLACES OF INTEREST

- | | |
|---|-----------------------|
| 1. Darling Quarter Site | 11. Ian Thorpe Pool |
| 2. Tumbalong Park | 12. Powerhouse Museum |
| 3. Chinese Gardens | 13. Industrial yard |
| 4. Exhibition Centre | 14. UTS |
| 5. Entertainment Centre Car Park | 15. Paddy's Markets |
| 6. Entertainment Centre | 16. Novotel |
| 7. Convention Centre | |
| 8. M Central and Goldsbrough apartments | |
| 9. Global Switch data building | |
| 10. Bullecourt apartments | |



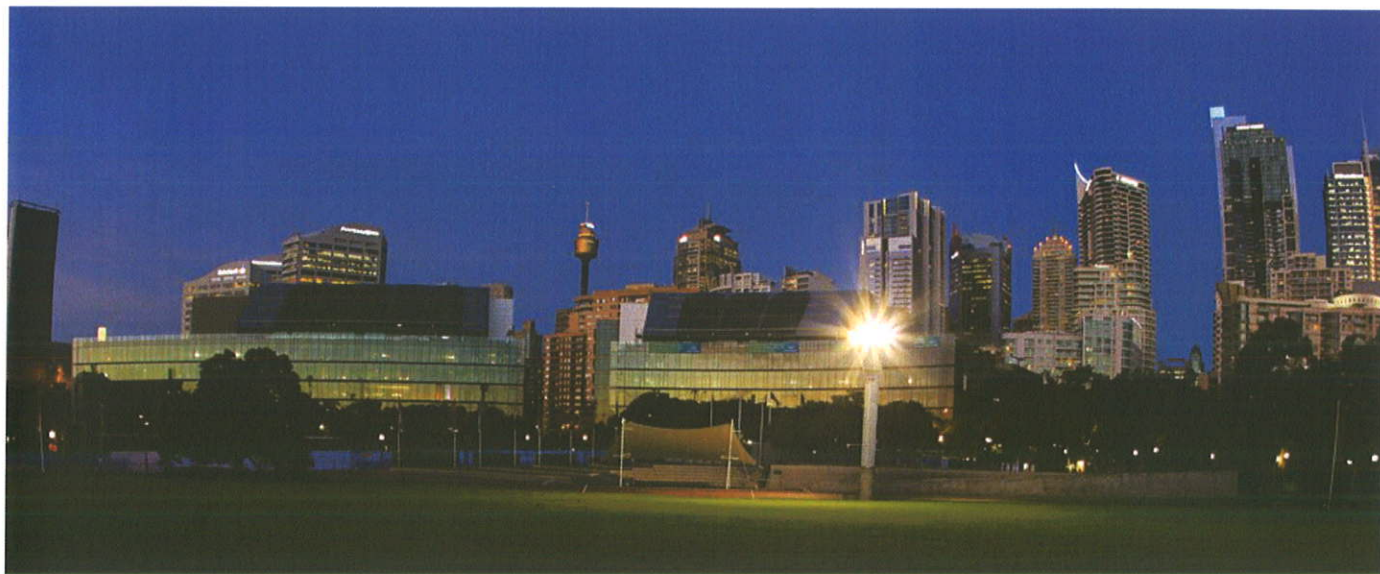
Source: Nearmaps | 30.12.2010

Image 4. 500m Location plan

Public Domain Impact



(A) Views from Liverpool St pedestrian entry/
southern building



(B) View from Tumbalong Park

Public Domain Impact



(B) Views from Tumbalong Park



(C) View from northern building pedestrian boulevard