

Tree Study of a row of Morton Bay Fig located within Sydney University Grounds (Amended 09.07.2024)

Study of a Row of Moreton Bay Fig trees that are located within the School of Life and Environmental Sciences, the University of Sydney.

A site visit was undertaken on Friday 5th July 2024 (between the hours of 11am till midday) to the School of Life and Environmental Sciences at the University of Sydney (located along Princes Highway, Camperdown) by David Gowenlock of Seasoned Tree Consulting to assess development works that have occurred to the north of a row of Heritage Figs.

A total of 75 photos were taken of the health and condition of the Figs and their growing conditions, plus the building to the north of the Figs.

The 4 assessed Fig trees (I have identified as **F1, F2, F3 and F4**) are the same species (Moreton Bay Fig- *Ficus Macrophylla*) as the heritage listed fig (identified as **T6**) located within 2-4 Gladstone Ave / 357-363 Crown St Wollongong.

T6 is likely somewhat older than **F1, F2, F3 and F4**, but in terms of size and original health (before the development occurred directly to the north of **F1, F2, F3 and F4**), both **F1, F2, F3 and F4** and **T6** are extremely similar in size, health and overall condition.

Therefore **F1, F2, F3 and F4** are an excellent example of what a development of high impact including extreme levels of new shading can have on this species.

A review of the following documents has been undertaken for the School of Life and Environmental Sciences at the University of Sydney-

Title	Author	Date	Reference on document
Arboricultural Impact Assessment + Tree Protection Specification	Tree IQ Anna Hopwood + Martin Peacock	11.04.2016	Rev D
Architectural Plans DA01 to DA18	Rice Daubney	17.05.2016	Issue F
Shadow Diagrams Summer Solstice DA19 Autumn Equinox DA20 Winter Solstice DA21	Rice Daubney	14.04.2016	Issue A

Following this review of all the available documents it is clear that the development impact and especially the increase in shading to the canopy of to **F1, F2, F3 and F4** is vastly higher than the development impact to **T6**.

Canopy and root pruning of **F1, F2, F3 and F4** was also undertaken which will have further increased the development impact. Root pruning of **F1, F2, F3 and F4** was firstly undertaken in August 2016 which has now given us an 8-year period to observe decline from development impact and there has been no decline, only increase in health and condition.

Furthermore, there are no pruning of canopy or roots of **T6** proposed due to the considerable setbacks provided.

A review of the following documents has been undertaken for the proposed development of 2-4 Gladstone Ave / 357-363 Crown St Wollongong -

Title	Author	Date	Reference on document
HERITAGE TREE EYE OF SUN SHEETS COMBINED Drawings A455 A450 A451 A452 A453 A454	BKA Architecture	09.07.2024	Rev 01

The above shadow diagrams show that T6 receives direct solar access at all times of the year, and considerably more than the development that has occurred immediately beside **F1, F2, F3 and F4**.

I am therefore extremely firm in my opinion that T6 is retainable in a viable condition, and pending excellent management of all development works by an experienced project arborist, will improve in overall health and condition, much like the overall health and condition of **F1, F2, F3 and F4** have done.

I have included selected photos taken by myself of the row of **F1, F2, F3 and F4** within the final pages of this report.

I have also included selected screenshots of the Architectural Plans and the Shadow Diagrams from the School of Life and Environmental Sciences at the University of Sydney documents to provide further information from pages 24 onwards.

The whole photo album of 74 photos of **F1, F2, F3 and F4** is available to download here-

<https://share.icloud.com/photos/0ealawDcdWB0ySUUCEKYntMXQ>

Please note that this iCloud photo link will expire on August 8th 2024.

Regards



David Gowenlock

Diploma of Arboriculture AQF5
Diploma of Conservation and Land Management AQF5
TRAQ (International Society of Arboriculture – Tree Risk Assessment Qualification)
VALID Tree Risk Assessment Qualified
AQF2 + AQF3 Arboriculture

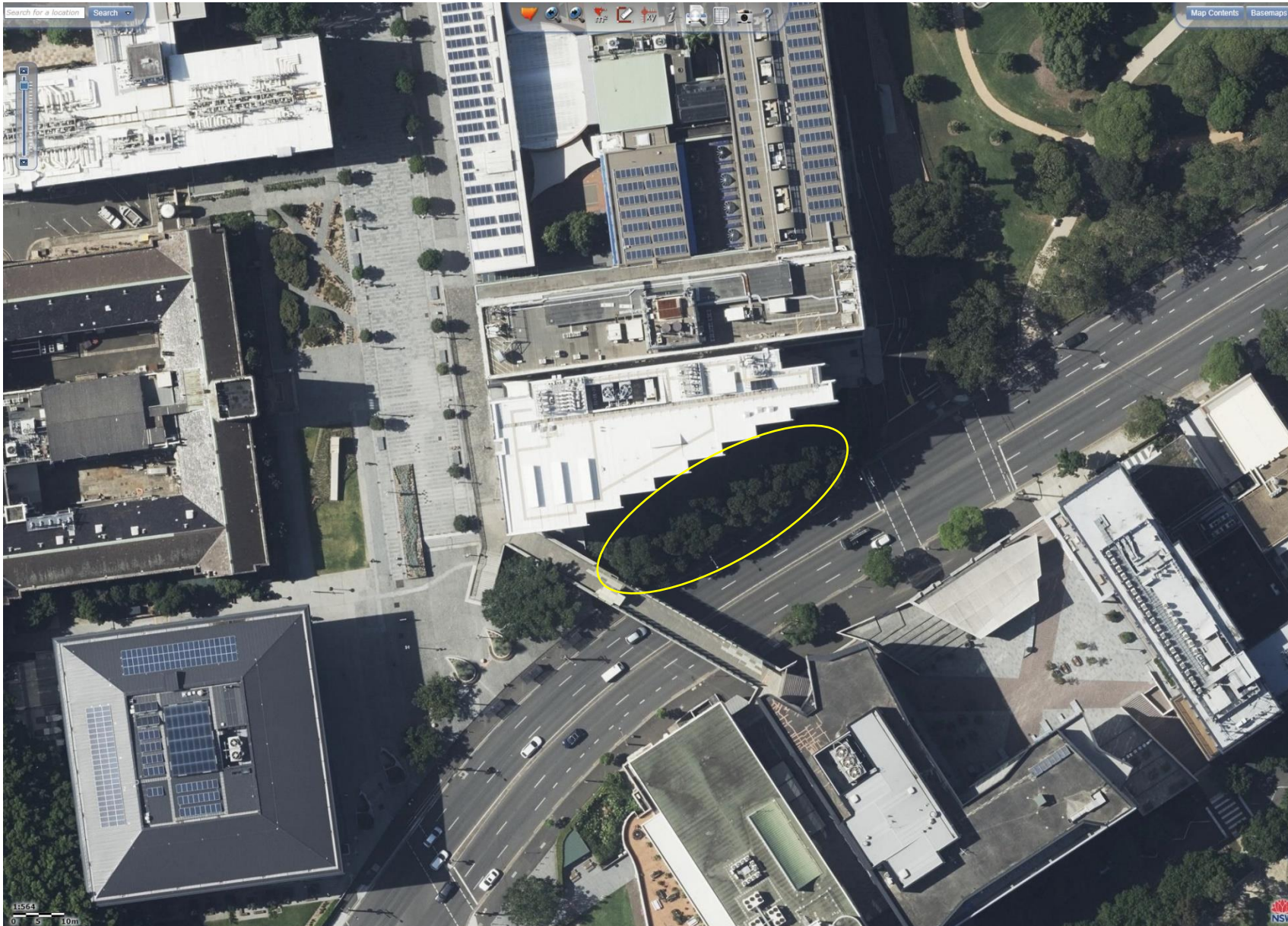
Trees **F1, F2, F3 and F4** in 1943 appear mature-

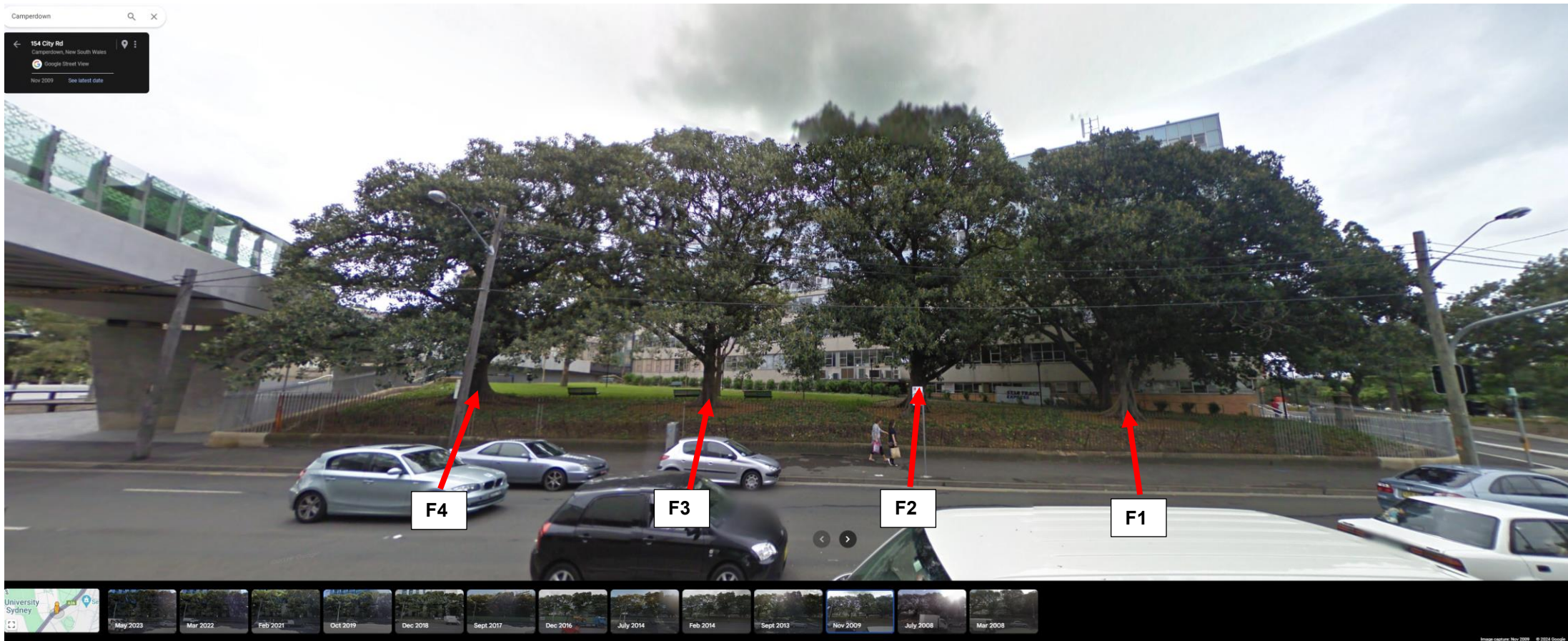


Large building (Carslaw Building) built to the north of the trees prior to 1971

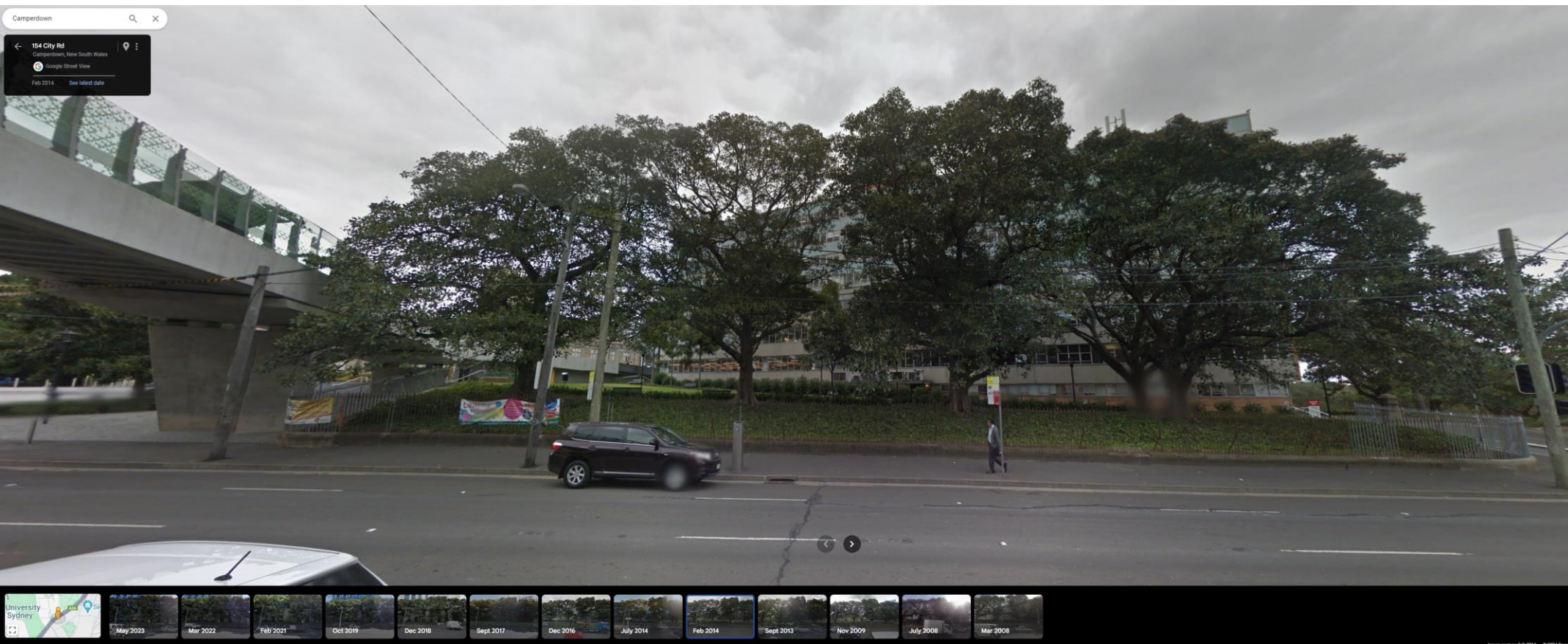


This image most recent satellite image with the row of F1, F2, F3 and F4 circled- massive new construction (built 2016-2017) with large amount of shadowing to the north and west

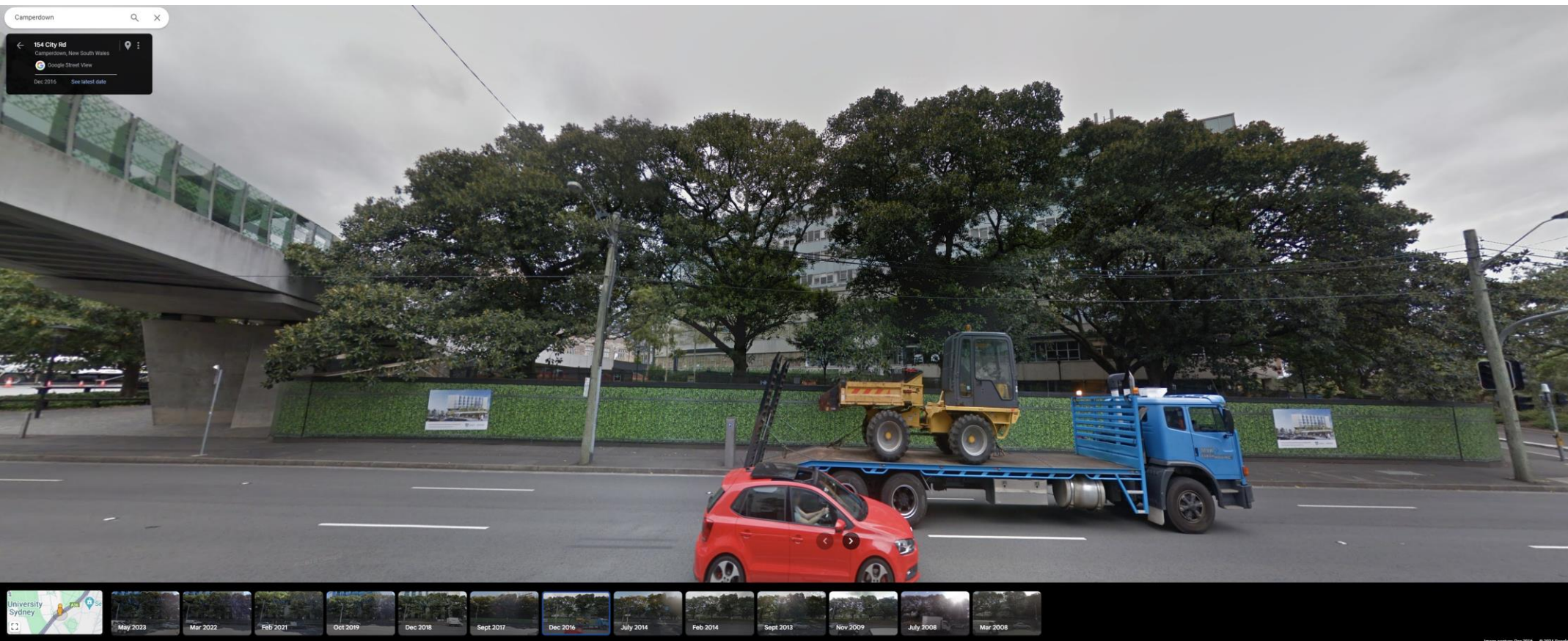




November 2009- Morton Bay Fig trees (**F1, F2, F3 and F4**) in fair to good health (similar health to **T6** at 2-4 Gladstone Ave, 357-363 Crown St, Wollongong)



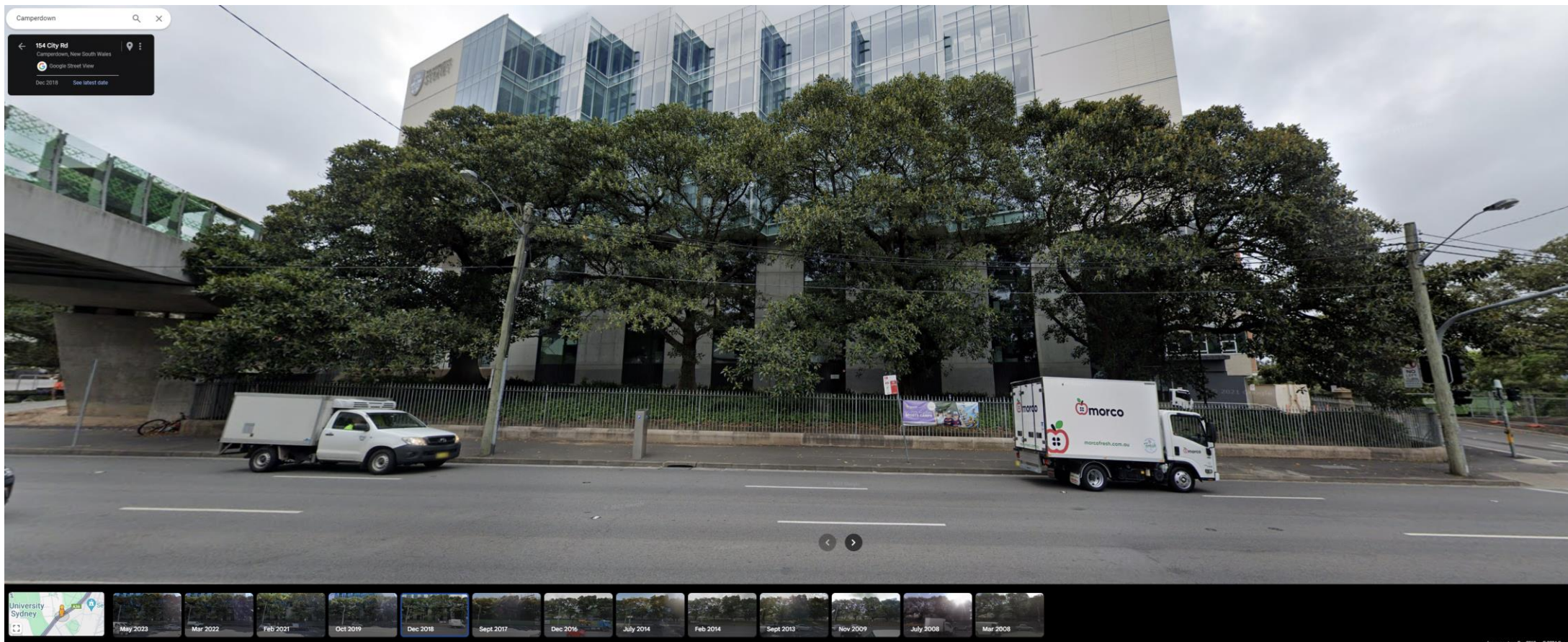
Feb 2014- similar health and condition as 5 years prior



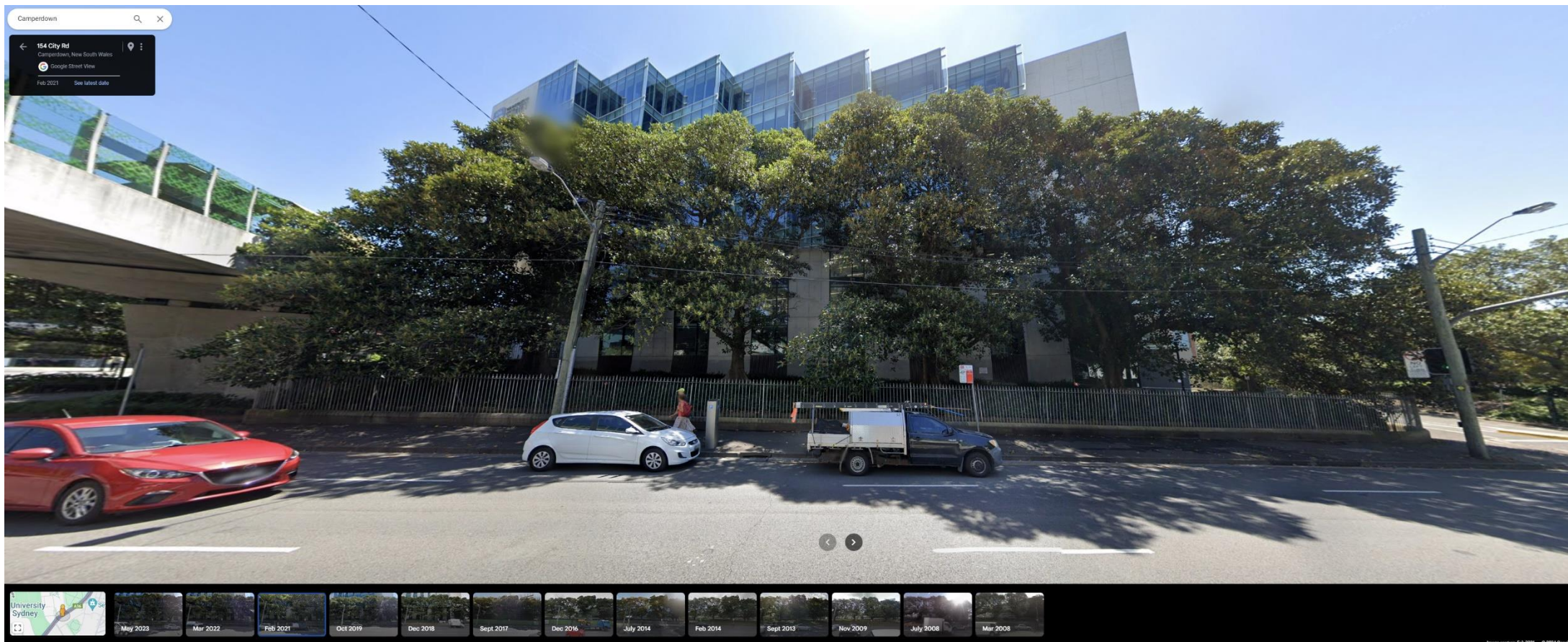
Dec 2016- similar health and condition as prior- Construction appears imminent



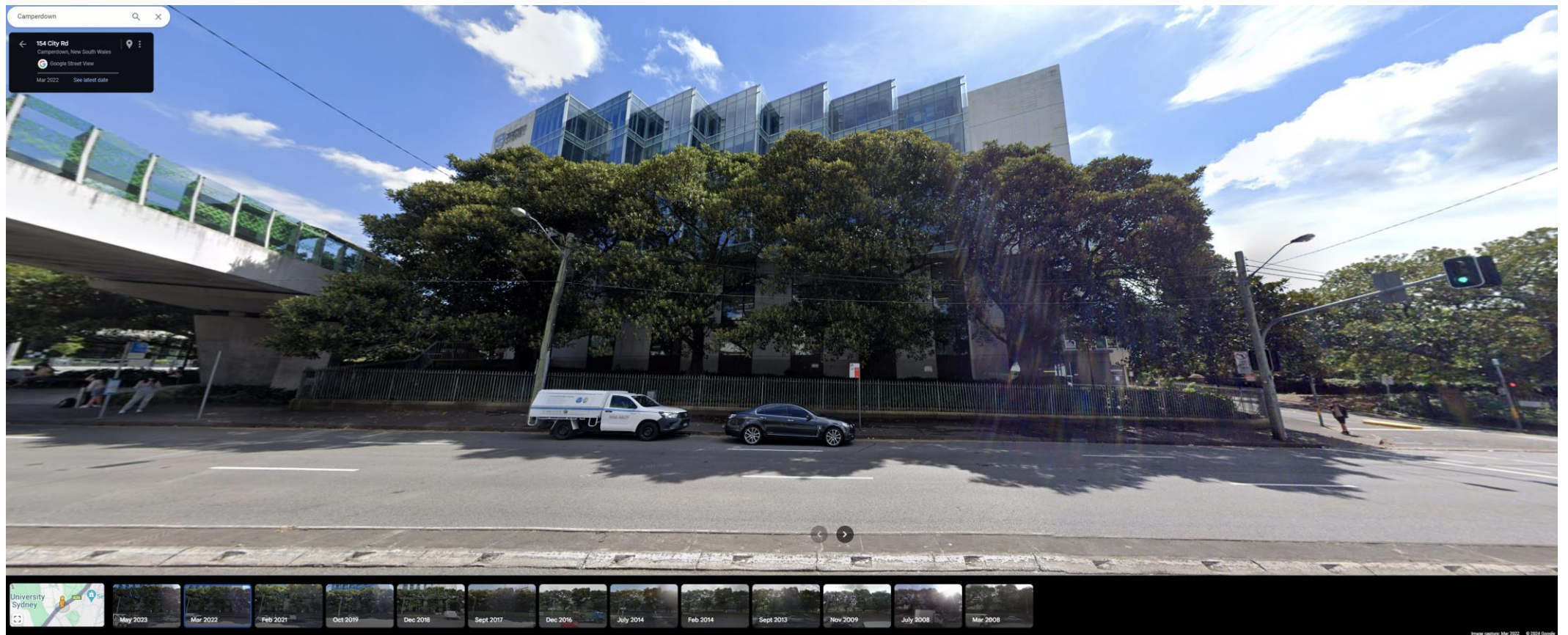
Sept 2016- health appears better, glossier leaves, deeper green, construction has started



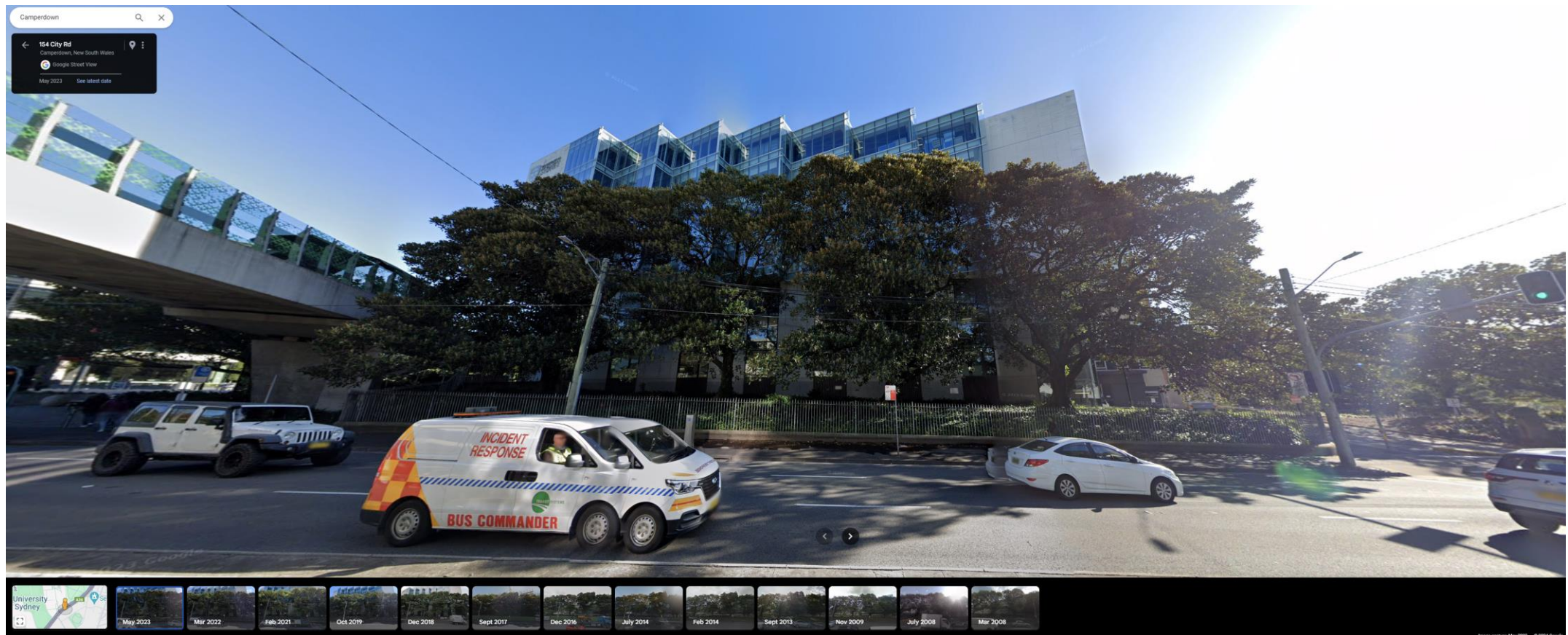
Dec 2018- health appears consistent, construction has finished



Feb 2021- health appears consistent, trees in great condition

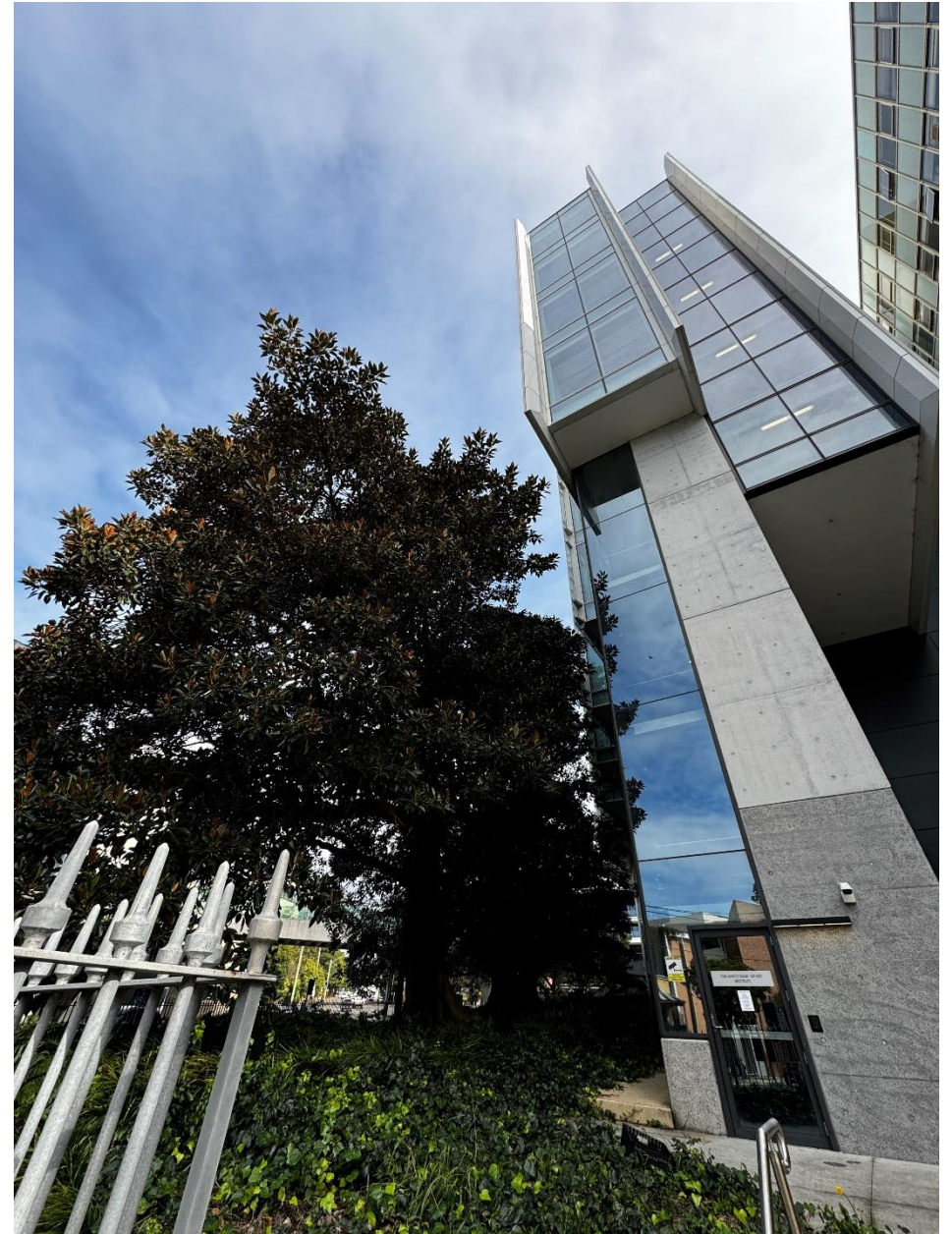


Mar 2022- health appears consistent, trees in great condition



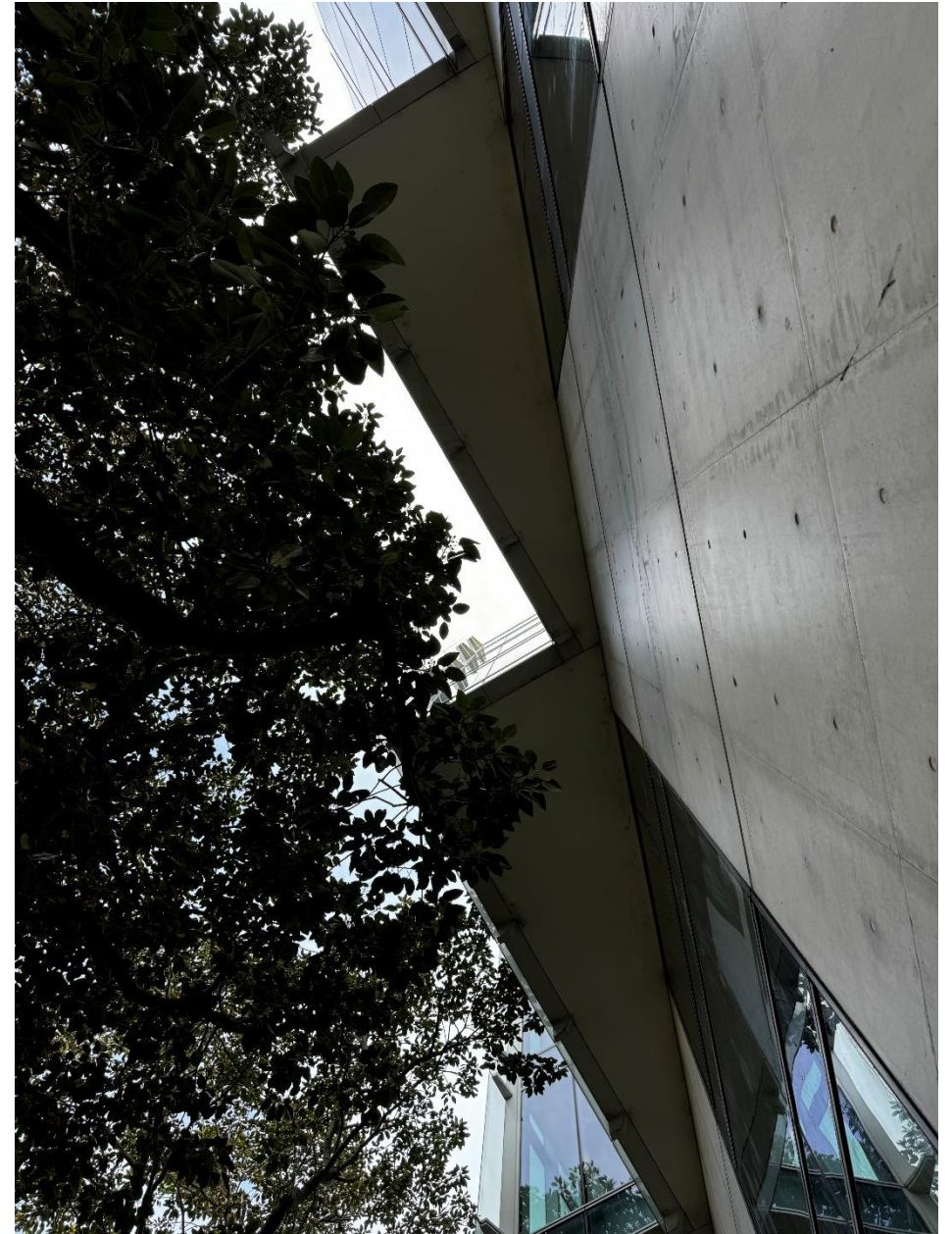
May 2023- health appears even better with lots of new growth over all the canopy, trees in great condition

All photos below were taken by David Gowenlock on 05.07.2024 at between 11am till midday



F1, F2, F3 and F4 health appears excellent with lots of new growth over all the canopy, trees in great condition





Significant canopy pruning of **F1, F2, F3 and F4** has occurred to accommodate the development



The most western tree of **F1, F2, F3 and F4**

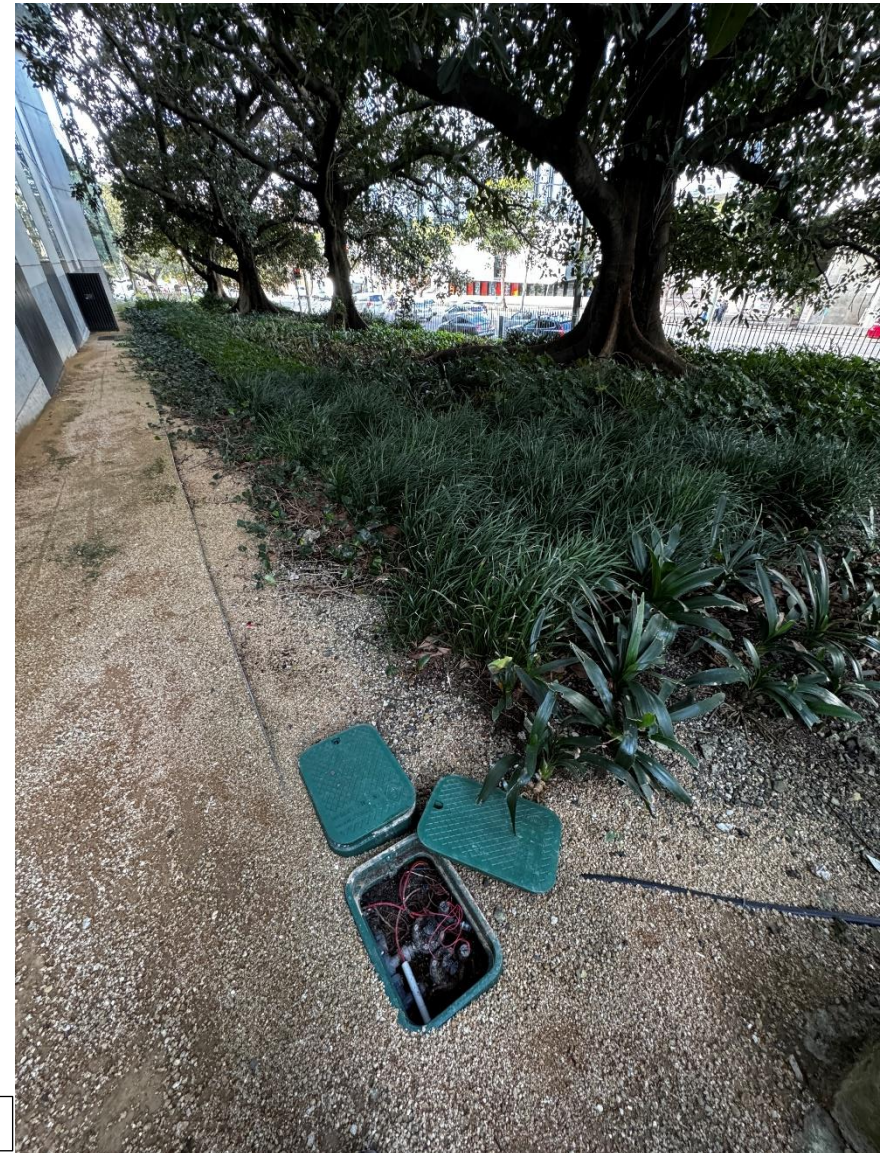


Decomposed gravel was used as a permeable path solution



Note that extensive drip irrigation has been installed, plus mulched, and then Ivy and other low plantings growing on ground as a natural mulch product

Drip irrigation solenoids for regular watering





The amount of overshadowing is massive here.



The most western tree of F1, F2, F3 and F4, this photo taken as standing from the west of the tree



The amount of overshadowing is massive here.




The most western tree of **F1, F2, F3 and F4**, this photo taken as standing from the west of the tree



The amount of overshadowing is massive from the northern development.




The most western tree of F1, F2, F3 and F4, this photo taken as standing from due west of the tree



Health of the trees is excellent.

This single Fig here is much more recently planted and considered to be semi mature



The most western tree of F1, F2, F3 and F4, this photo taken as standing from due west of the tree.

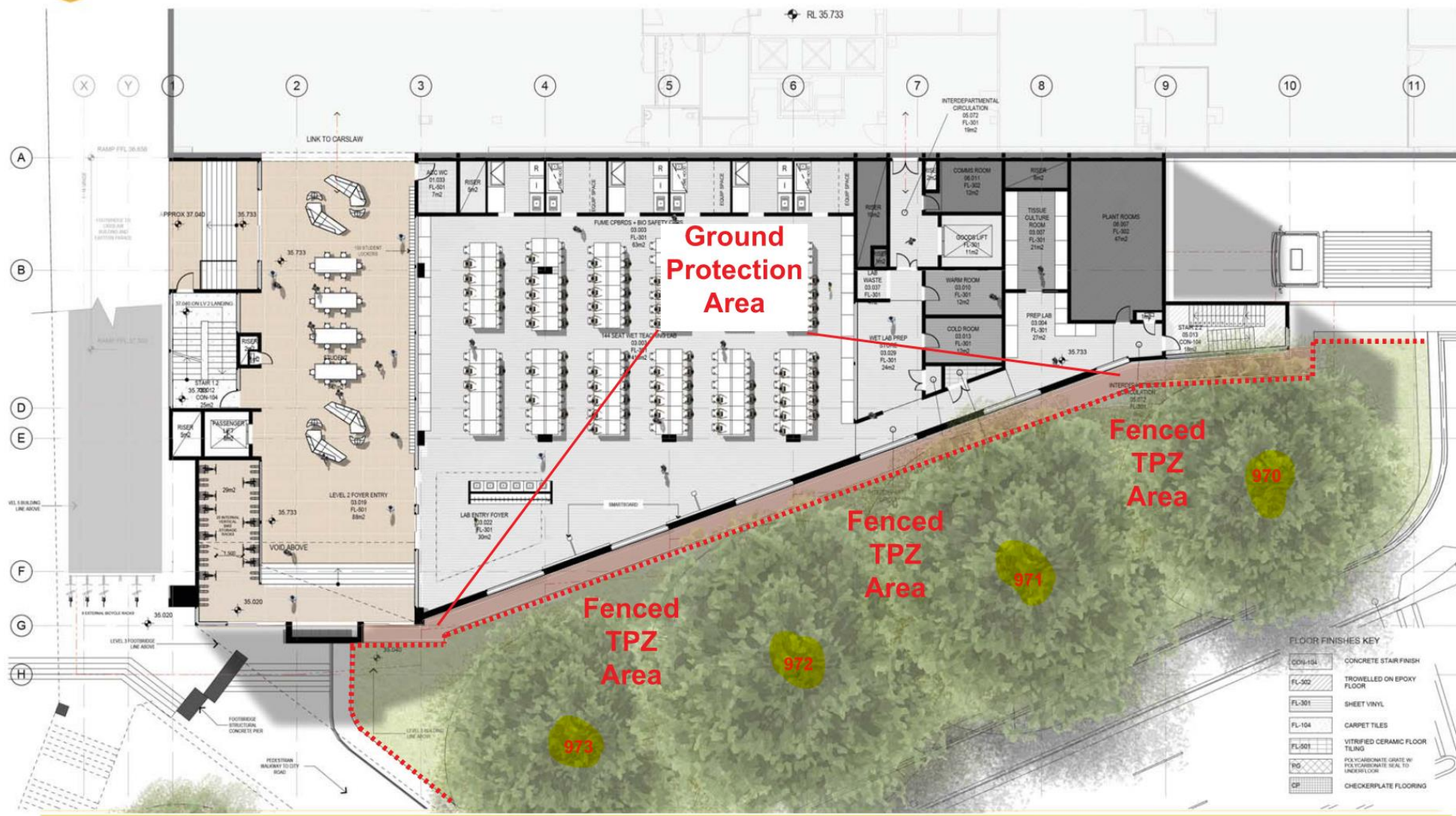


The most western tree of F1, F2, F3 and F4, this photo taken as standing from due west of the tree underneath the pedestrian overpass

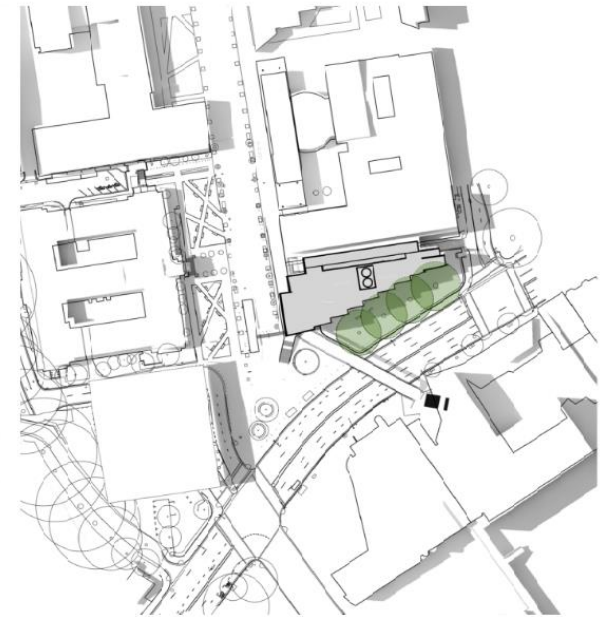
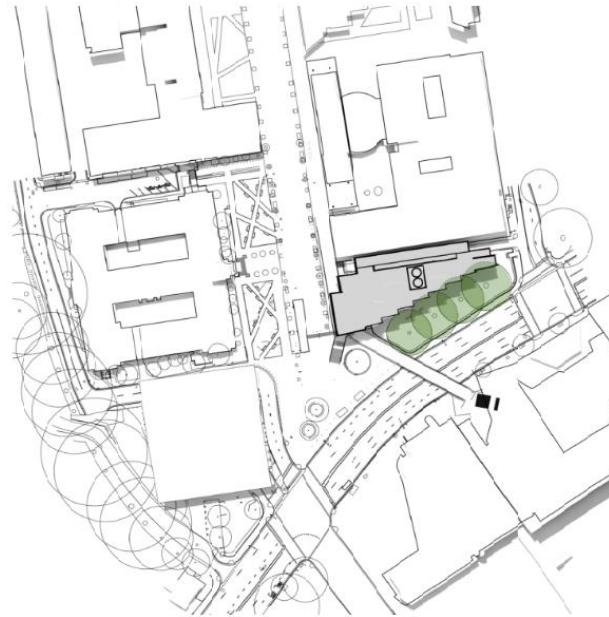
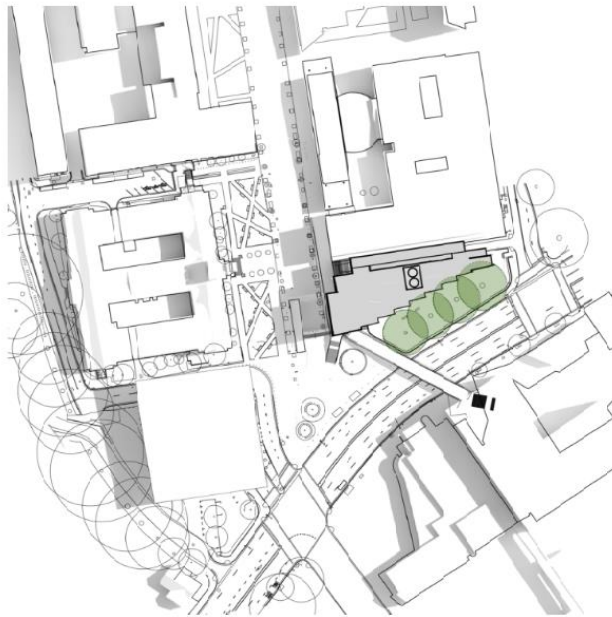




THE UNIVERSITY OF
SYDNEY



TREE PROTECTION PLAN



9:00 AM • 22 DECEMBER

12:00 PM • 22 DECEMBER

2:00 PM • 22 DECEMBER



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CONSTRUCTIONS



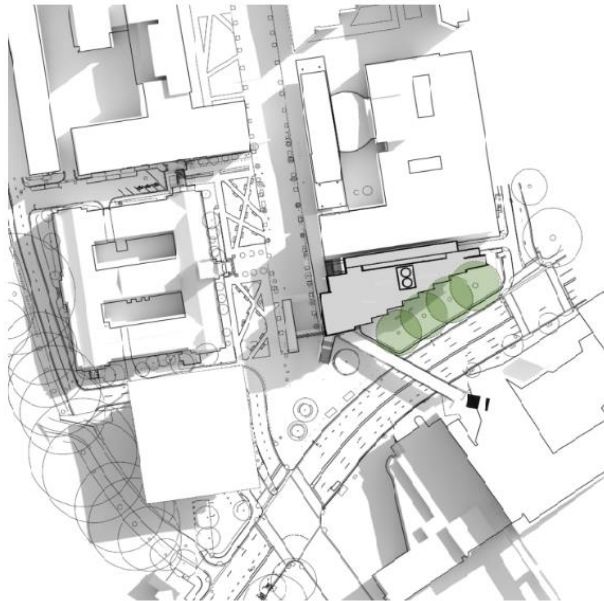
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LEES 1 BUILDING (F07)
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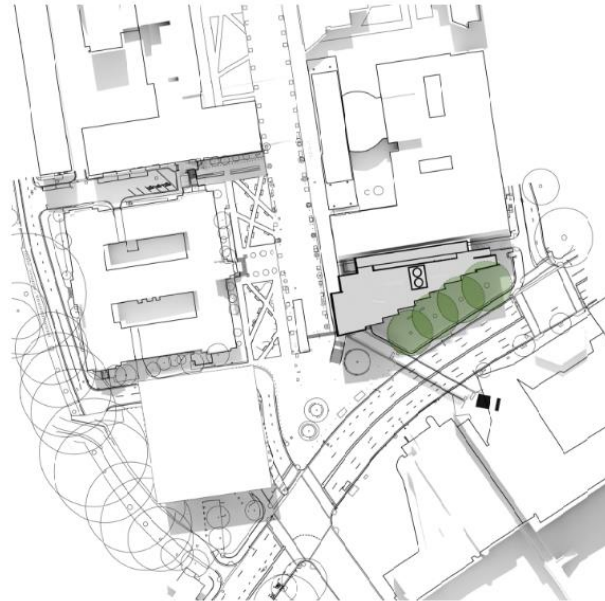
SHADOW DIAGRAMS
SUMMER SOLSTICE

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PROJECT NUMBER	DA 19	DATE	A

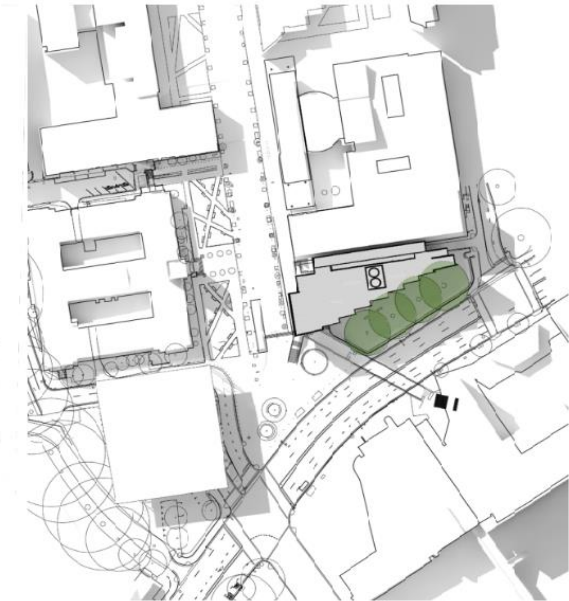
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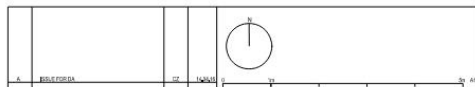
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12:00 PM • 21 MARCH



2:00 PM • 21 MARCH



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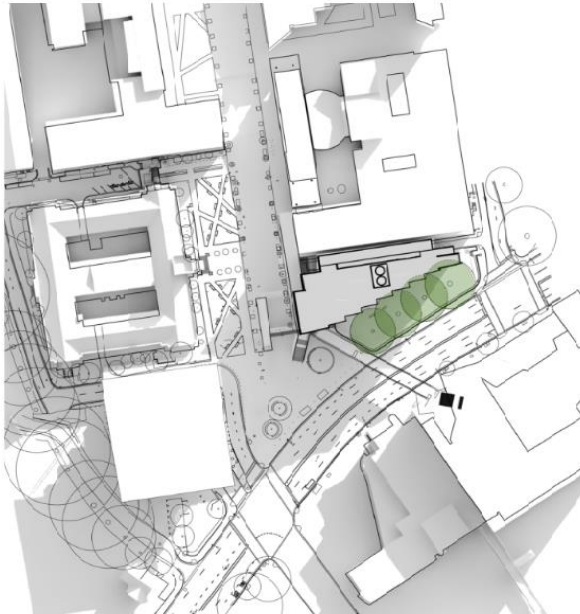


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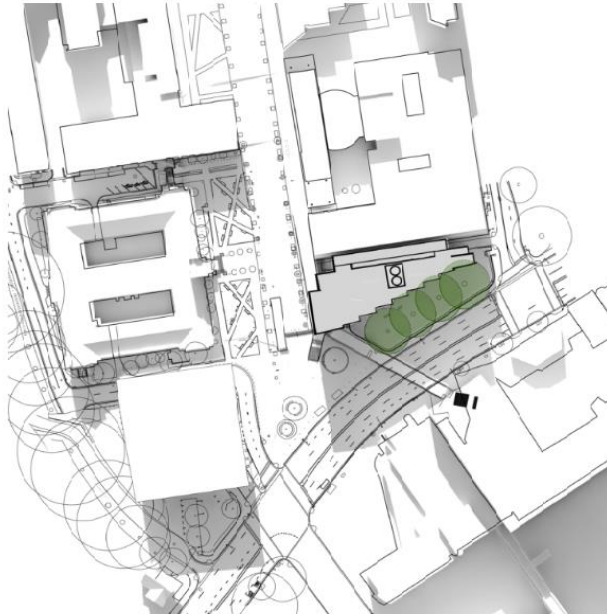
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SHADOW DIAGRAMS
AUTUMN EQUINOX

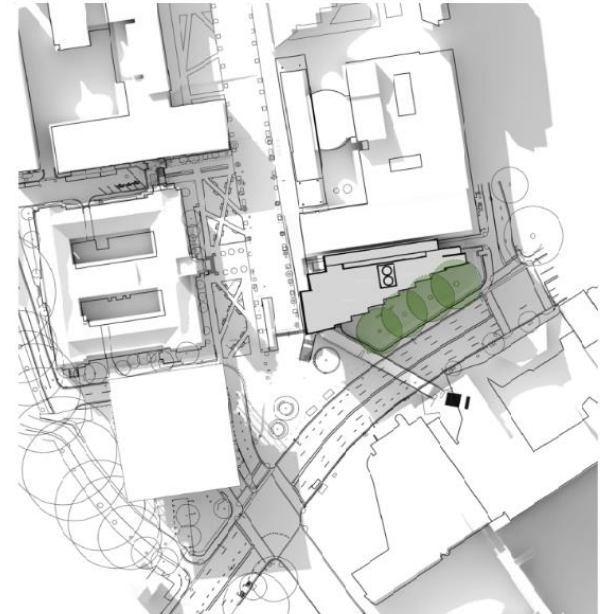
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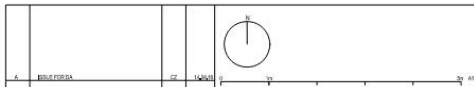
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TYPE OF WORK
**SHADOW DIAGRAMS
WINTER SOLSTICE**

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Plate 7: Showings Tree 970-971

From page 17 of
the Arboricultural
Impact
Assessment +
Tree Protection
Specification
(Tree IQ, Anna
Hopwood +
Martin Peacock)
11.04.2016

*** Please note
tree ID numbers
are the wrong
way around here



Plate 8: Showing Tree 972-973

From page 17 of
the Arboricultural
Impact
Assessment +
Tree Protection
Specification
(Tree IQ, Anna
Hopwood +
Martin Peacock)
11.04.2016

*** Please note
tree ID numbers
are the wrong
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