



# Taronga Zoo Sky Safari, Mosman, NSW

Visual impact renderings and methodology report 29th April 2025

## 1. INTRODUCTION

This document was prepared by Virtual Ideas to demonstrate the visual impact of the proposed developments for the Taronga Zoo Sky Safari, Bradleys Head Road, Mosman, NSW with respect to the existing built form and site context.

## 2. VIRTUAL IDEAS EXPERTISE

Virtual Ideas is an architectural visualisation company that has over 15 years experience in preparing visual impact assessment content and reports on projects of major significance that meet the requirements for relevant local and state planning authorities.

Our reports have been submitted as evidence in proceedings in both the Land and Environment Court and the Supreme Court of NSW. Our director, Grant Kolln, has been an expert witness in the field of visual impact assessment in the Supreme Court of NSW.

Virtual Ideas' methodologies and outcomes have been inspected by various court appointed experts in relation to previous visual impact assessment submissions, and have always been found to be accurate and acceptable.

## 3. PHOTOMONTAGE METHODOLOGY

The following describes the process that we undertake to create the photomontages that form the basis of this report.

#### 3.1 DIGITAL 3D SCENE CREATION

Our initial stage involves crafting a precise, true-to-life digital 3D environment using Autodesk 3ds Max software, accurately scaled to real-world dimensions, and aligned to a standardised reference point utilising the MGA 56 GDA 2020 coordinate system.

To construct this environment, we combine various data sources, encompassing existing, approved and proposed building 3D models, along with site survey data. Further information regarding the origins of these data sources is provided in Appendices A, B, and C.

In cases where data sources lack alignment with the MGA-56 GDA 2020 coordinates, we employ identifiable features common across datasets, such as site boundaries and building outlines, which can be aligned with those already situated in the MGA-56 GDA 2020 framework.

Detailed accounts of the alignment processes for each data source are elaborated upon in Section 3.3.

#### **3.2 SITE PHOTOGRAPHY**

The site photography was captured by Virtual Ideas, with the respective viewpoint locations delineated on the viewpoint map in Section 4 of this document.

The choice of camera lenses for photography was made by Ethos Urban after careful consideration of multiple factors. Paramount among these were the distance of the camera position from the site and the scale of the proposed development in relation to the surrounding built environment and landscape.

For these public domain photomontages, a combination of 24, 35, and 50mm lenses was chosen. This lens choice ensures adequate visibility of both the proposed development and the immediate surrounding context, facilitating a thorough assessment of the proposed development's visual impact.

For certain scenarios, employing a 50mm lens may produce the most effective photomontage for assessing visual impact. The 50mm lens is often favoured for its close approximation to the human eye perception of distance. However, in instances where a 50mm lens fails to encompass an adequate surrounding context for comprehensive visual impact assessment, opting for a wider lens becomes imperative. All photographs are lens profile corrected in Camera RAW, which removes the distortion associated with the curvature of the lens.

Comprehensive metadata, including date, time, and lens information, is recorded during site photography. This critical data enables precise analysis and documentation of each photograph's attributes.

#### 3.2 ALIGNMENT OF 3D SCENE

To accurately position the 3D scene within its geographical context, we employed the following data:

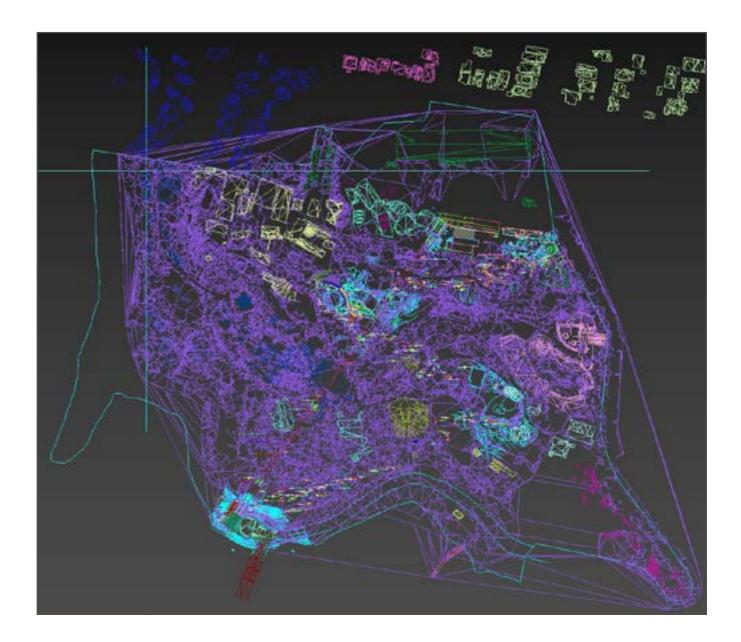
- 1. Site Survey Alignment: Utilising a provided site survey, we aligned the boundaries of the proposed buildings with geo-referenced data, ensuring precise positioning within the digital environment.
- 2. Camera Alignment: Cameras were aligned to surveyed positions supplied by CMS Surveyors, adhering to the MGA-56 GDA 2020 coordinate system. This meticulous alignment ensured that viewpoints captured within the 3D scene accurately reflected real-world perspectives.



#### 3.3 RENDERING CREATION

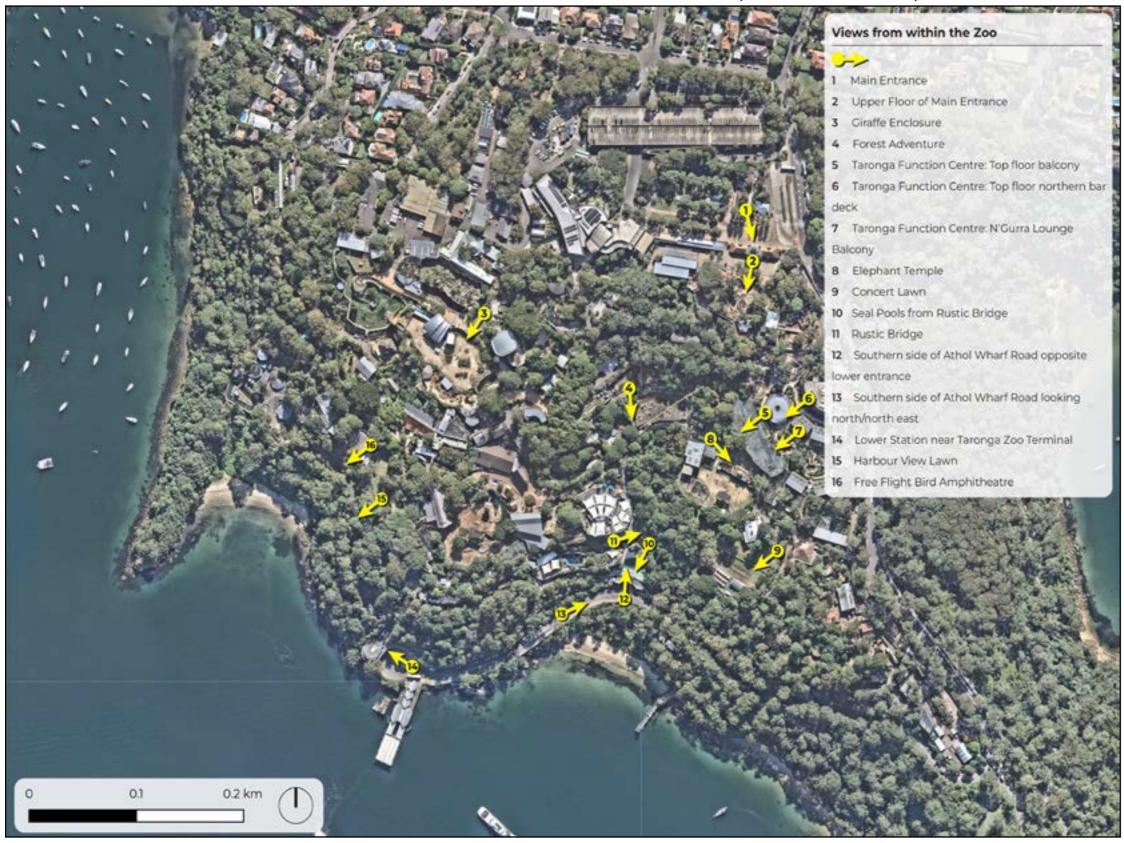
Following the completion of the camera alignment, we proceeded to integrate lighting into the 3D scene. To replicate natural lighting conditions accurately, a digital sunlight system was incorporated into the 3D environment. This system emulates the directional lighting of the sun leveraging location data, as well as time and date information. Implemented through specialised software, the sunlight system ensures precise alignment with the sun's angle, enhancing realism within the scene.

For the renderings, we applied detailed materials to the proposed developments.



## 4.1 MAP OF 3D CAMERA LOCATIONS

## PLAN ILLUSTRATING CAMERA LOCATIONS FOR VISUAL IMPACT RENDERS OF TARONGA ZOO, BRADLEYS HEAD RD, MOSMAN



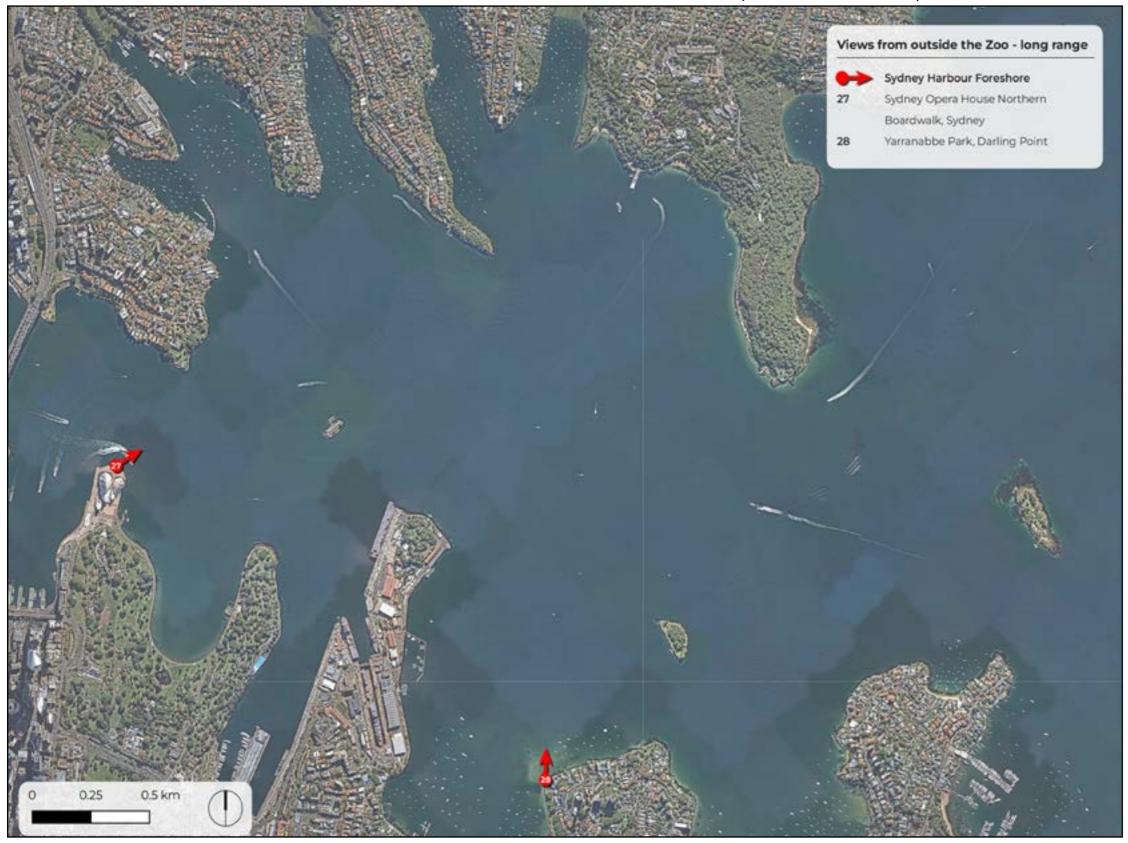
## **4.2 MAP OF 3D CAMERA LOCATIONS**

## PLAN ILLUSTRATING CAMERA LOCATIONS FOR VISUAL IMPACT RENDERS OF TARONGA ZOO, BRADLEYS HEAD RD, MOSMAN



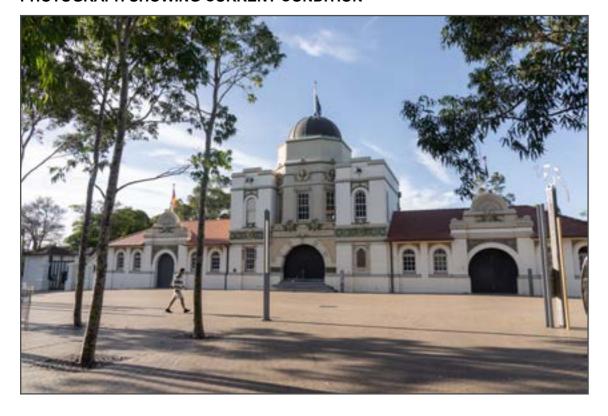
## 4.3 MAP OF 3D CAMERA LOCATIONS

## PLAN ILLUSTRATING CAMERA LOCATIONS FOR VISUAL IMPACT RENDERS OF TARONGA ZOO, BRADLEYS HEAD RD, MOSMAN



## **5.1 VIEWPOINT POSITION 01**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 02\_24mm\_01 Virtual Ideas File Name:

Author: ARW Format:

Date: 18 January 2023

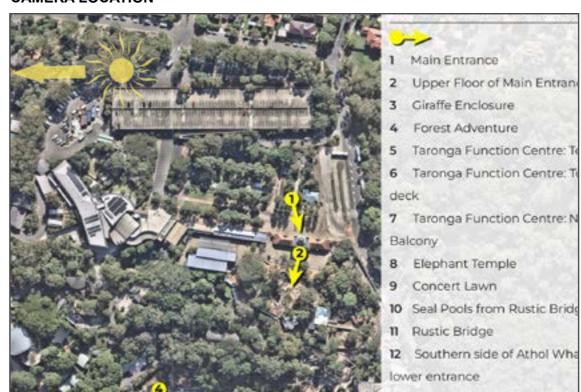
6:43am Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Lens: Model:

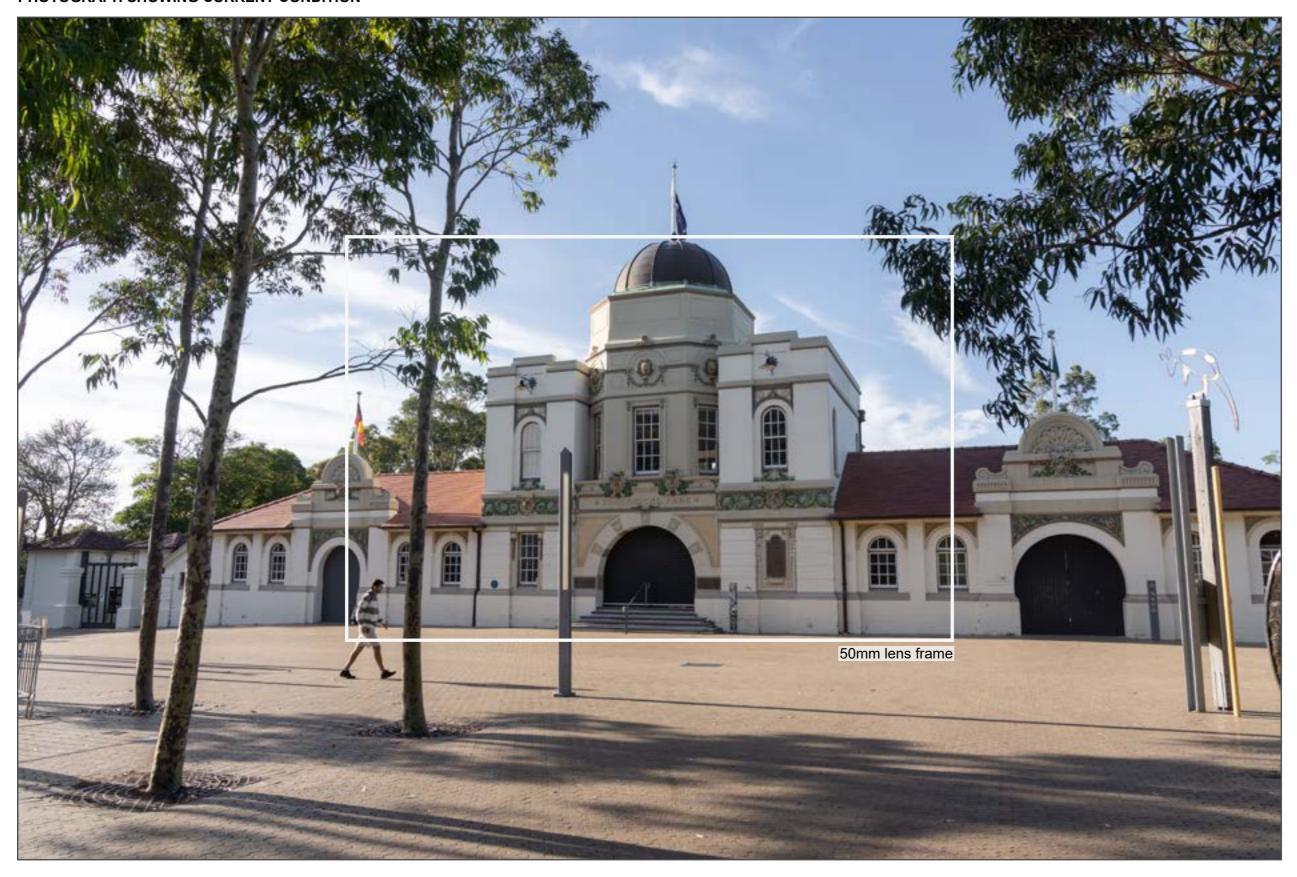
Full frame Sensor: 24mm Focal length:

#### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.1 VIEWPOINT POSITION 01**



# **5.1 VIEWPOINT POSITION 01**



## **5.2 VIEWPOINT POSITION 02**

## PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



## PHOTOGRAPH DETAILS

TZ\_View 03\_24mm\_03 Virtual Ideas File Name:

Author:

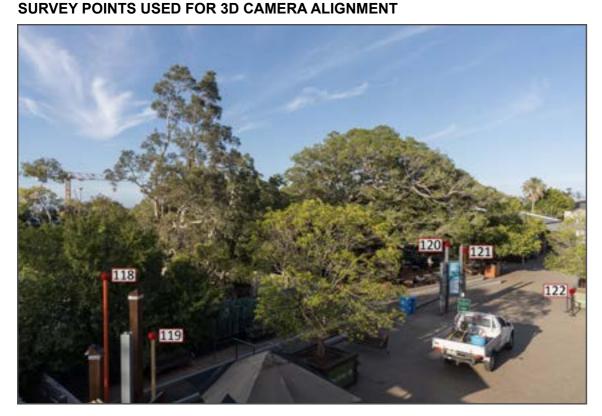
ARW Format:

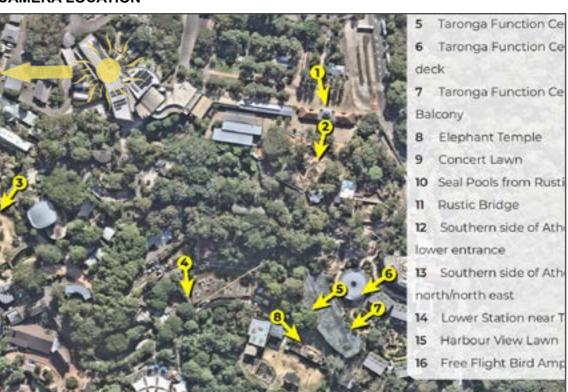
Date: 18 January 2023 Time:

6:21am

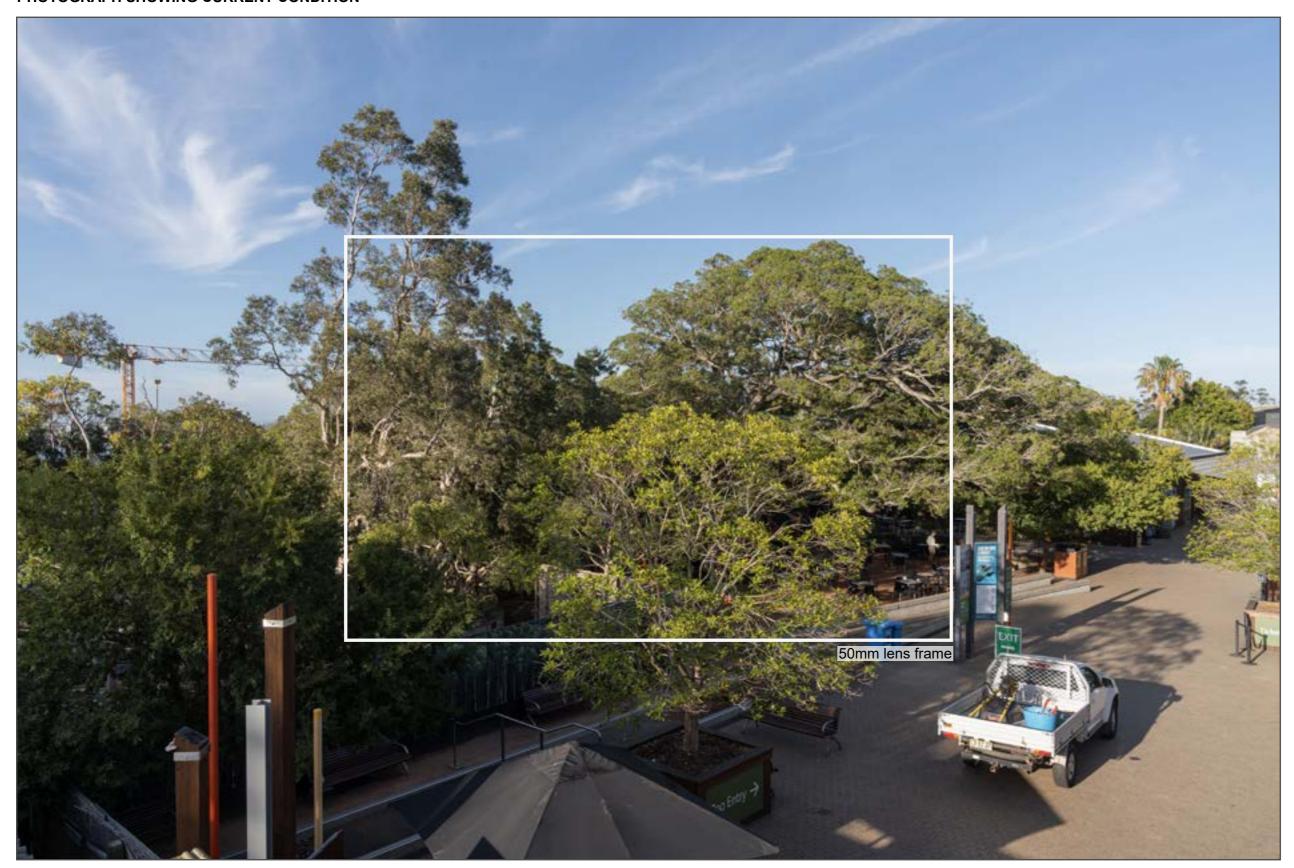
FE 24-70mm F2.8 GM Sony ILCE-7RM4A Lens: Model:

Full frame Sensor: 24mm Focal length:





# **5.2 VIEWPOINT POSITION 02**



# **5.2 VIEWPOINT POSITION 02**



## **5.3 VIEWPOINT POSITION 03**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 04\_24mm\_01 Virtual Ideas File Name:

Author:

ARW Format:

Date:

Time:

18 January 2023 7:01am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

Sensor: 24mm Focal length:

#### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

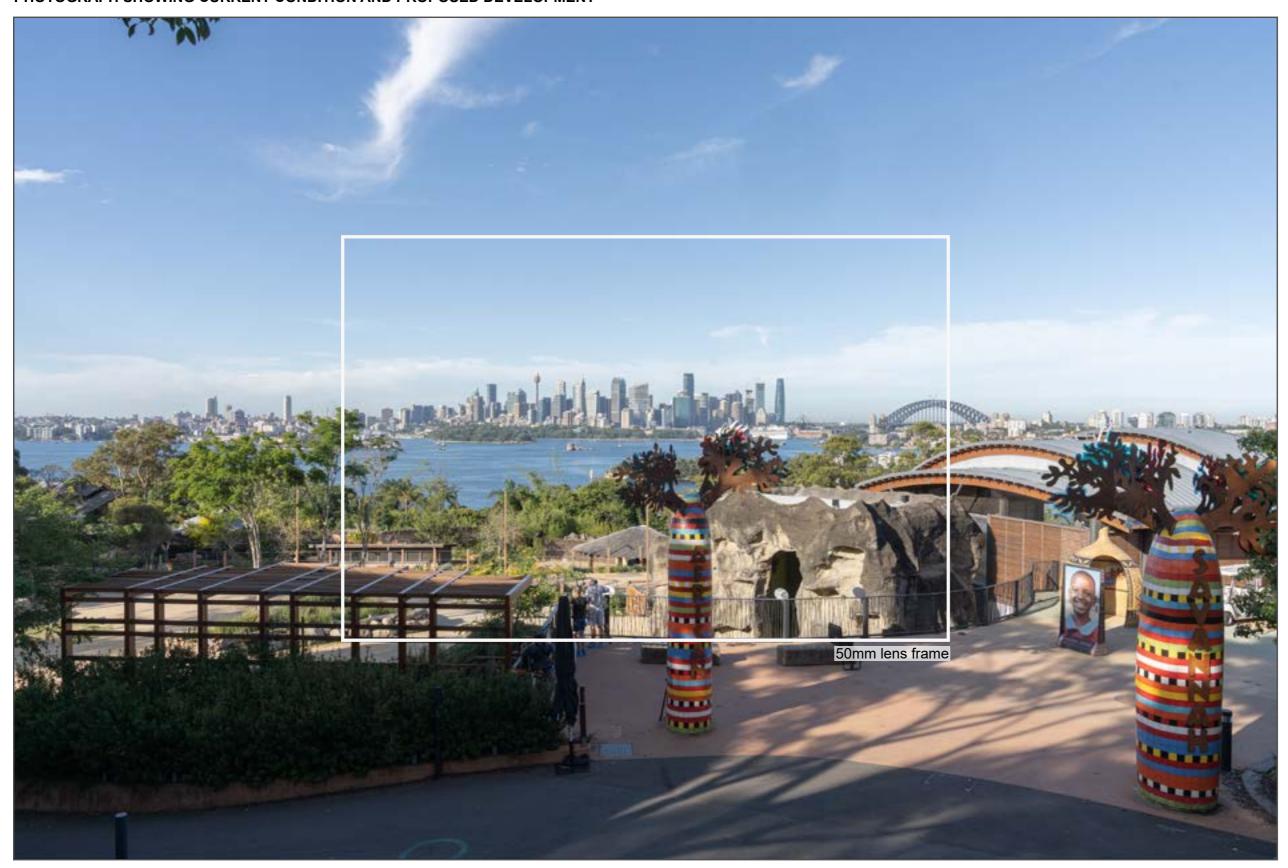




# **5.3 VIEWPOINT POSITION 03**



# **5.3 VIEWPOINT POSITION 03**



## **5.4 VIEWPOINT POSITION 04**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 05\_24mm\_04 Virtual Ideas File Name:

Author: ARW Format:

18 January 2023 Date:

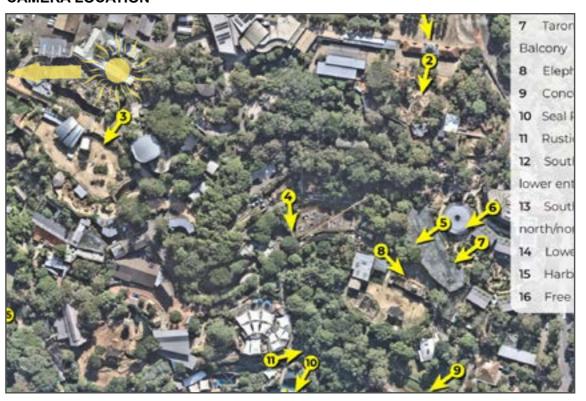
7:23am Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

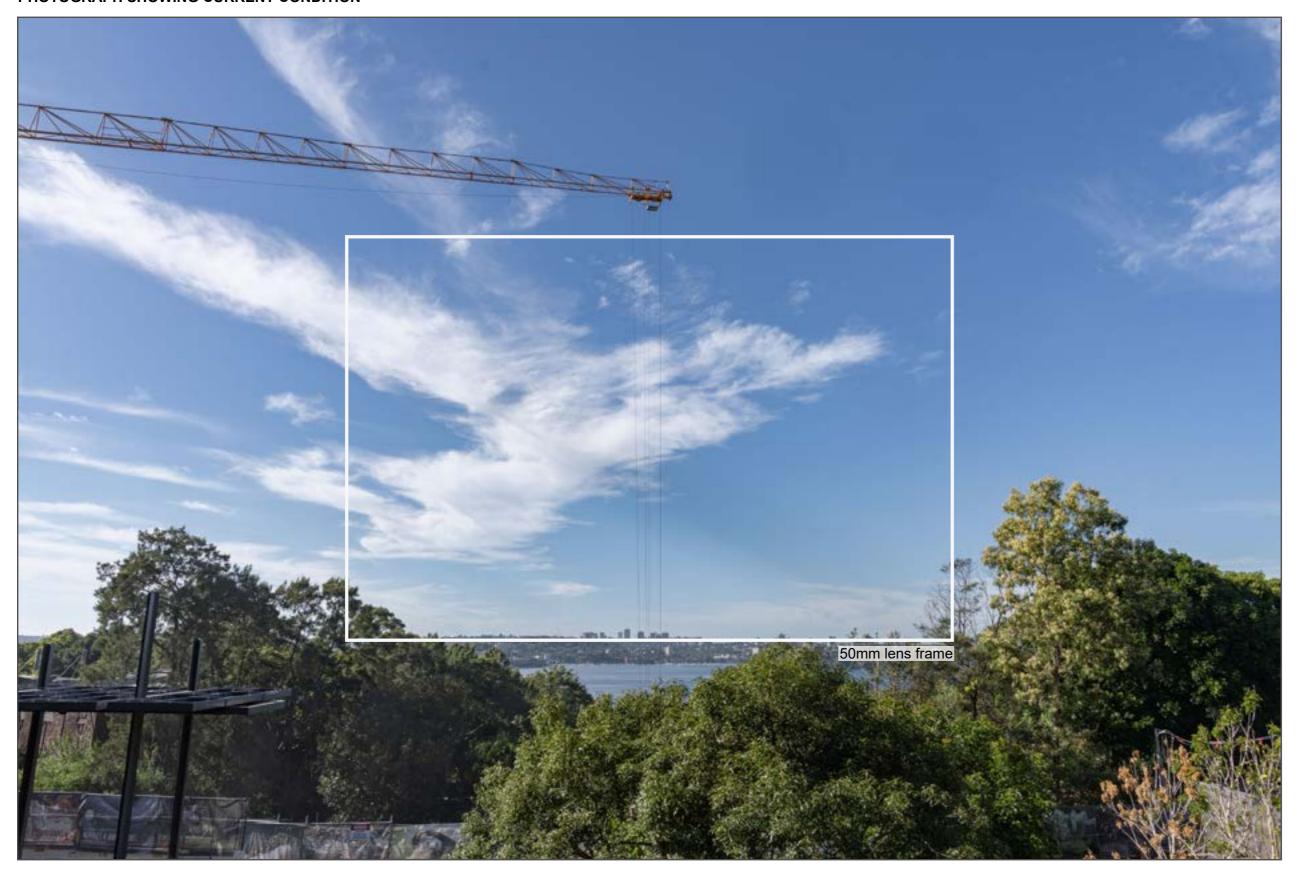
Sensor: 24mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

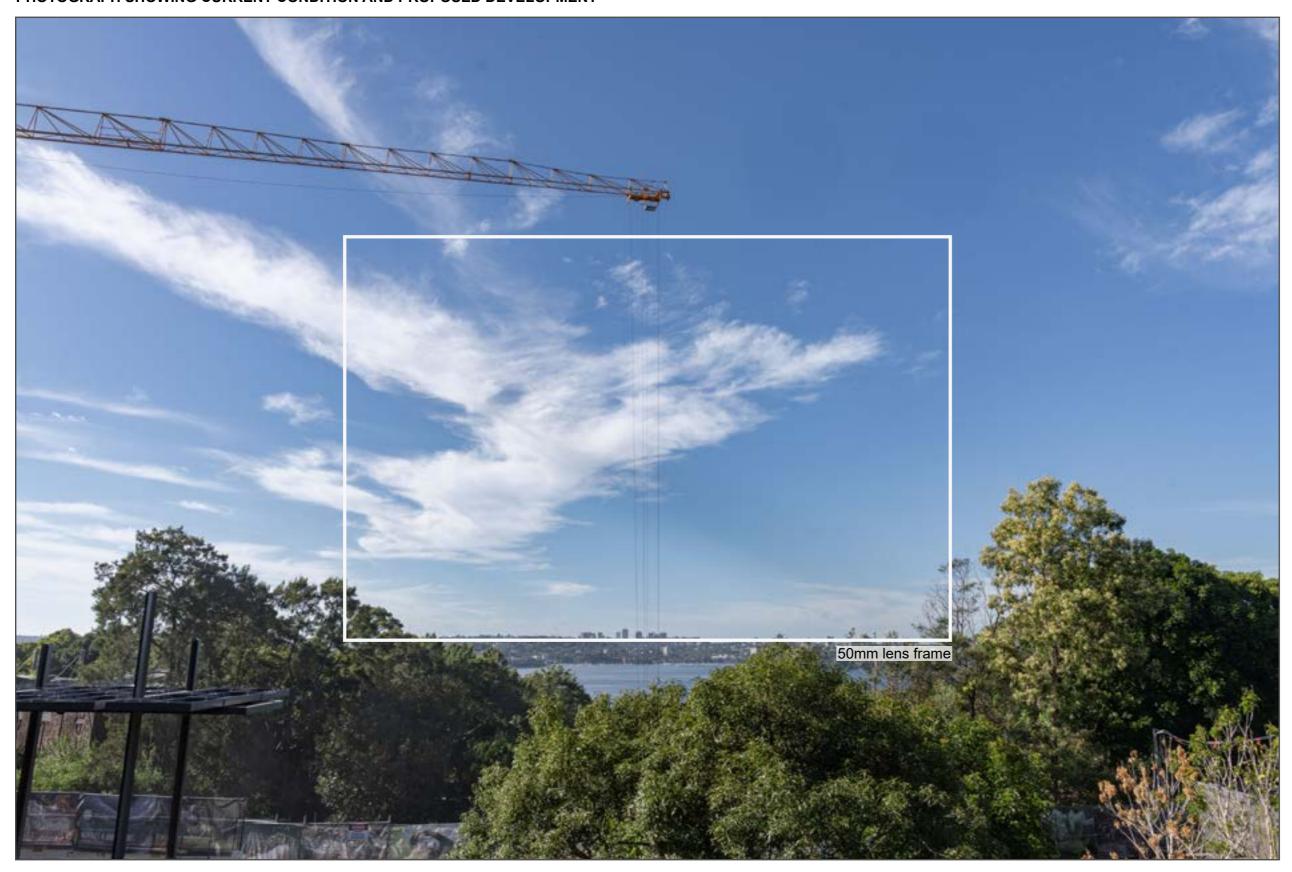




# **5.4 VIEWPOINT POSITION 04**

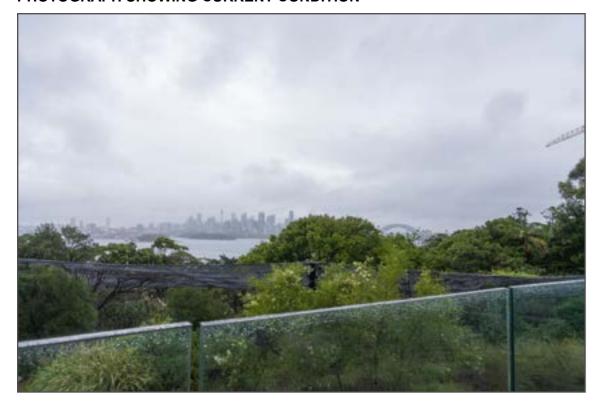


# **5.4 VIEWPOINT POSITION 04**

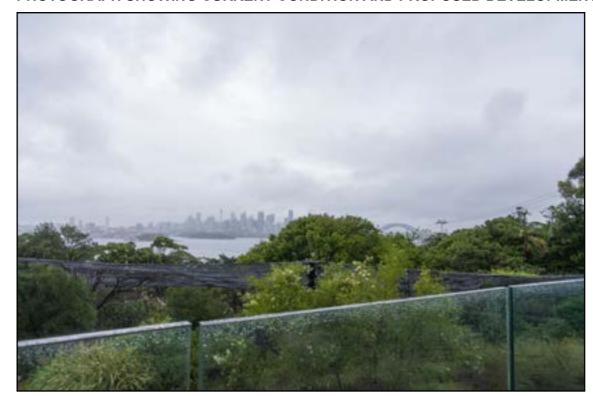


## **5.5 VIEWPOINT POSITION 05**

## PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



#### PHOTOGRAPH DETAILS

TZ\_View 06\_24mm\_01 Virtual Ideas File Name:

Author: ARW Format:

Date: 19 January 2023

8:01am Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Model:

Full frame Sensor: 24mm Focal length:

#### SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT





# **5.5 VIEWPOINT POSITION 05**



# **5.5 VIEWPOINT POSITION 05**

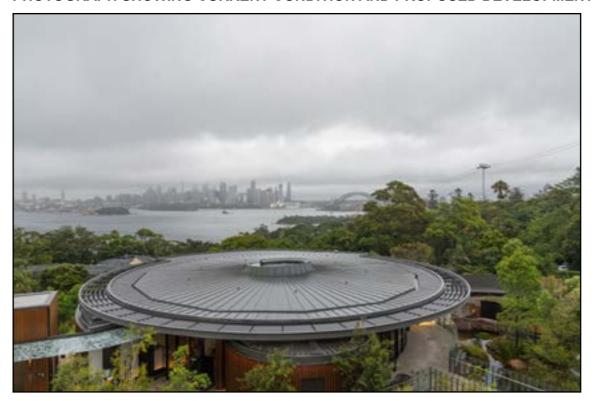


## **5.6 VIEWPOINT POSITION 06**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 07\_24mm\_01 Virtual Ideas File Name:

Author: ARW Format:

Date: 19 January 2023

6:44am Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Model:

Full frame Sensor: 24mm Focal length:





# **5.6 VIEWPOINT POSITION 06**

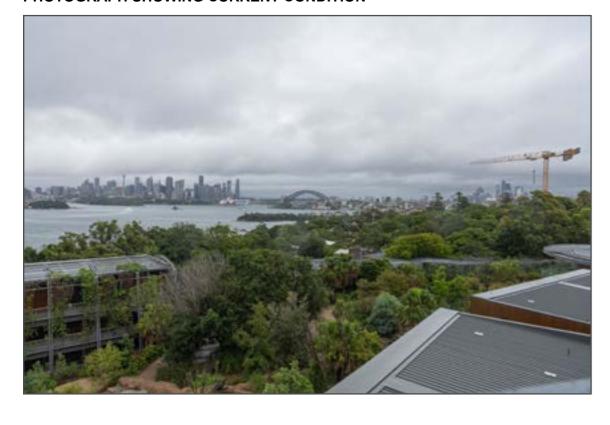


# **5.6 VIEWPOINT POSITION 06**



## **5.7 VIEWPOINT POSITION 07**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 08\_24mm\_02 Virtual Ideas File Name:

Author: ARW Format:

Date: 19 January 2023

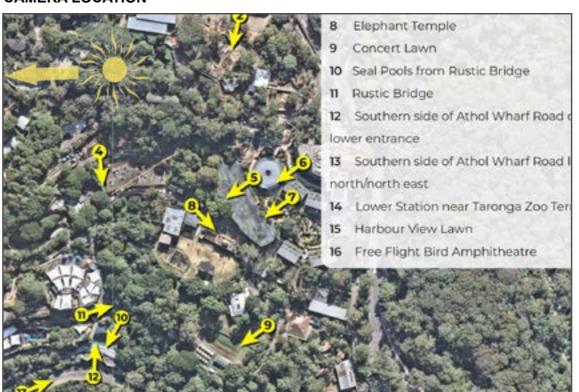
Time: 7:13am

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Model:

Full frame Sensor: 24mm Focal length:

#### SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT





# **5.7 VIEWPOINT POSITION 07**



# **5.7 VIEWPOINT POSITION 07**

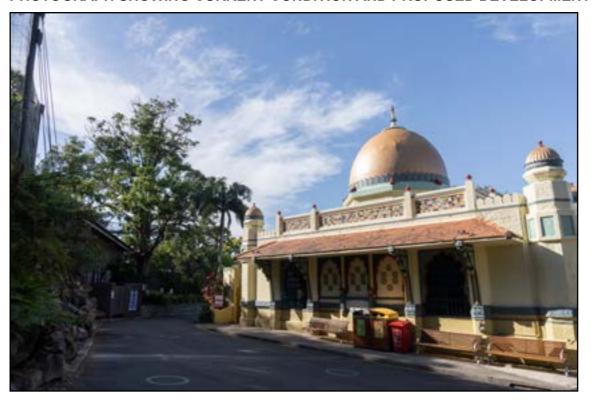


## **5.8 VIEWPOINT POSITION 08**

#### PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 09\_Pos 01\_24mm\_02 Virtual Ideas File Name:

Author: ARW Format:

18 January 2023 Date:

Time: 7:37am

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

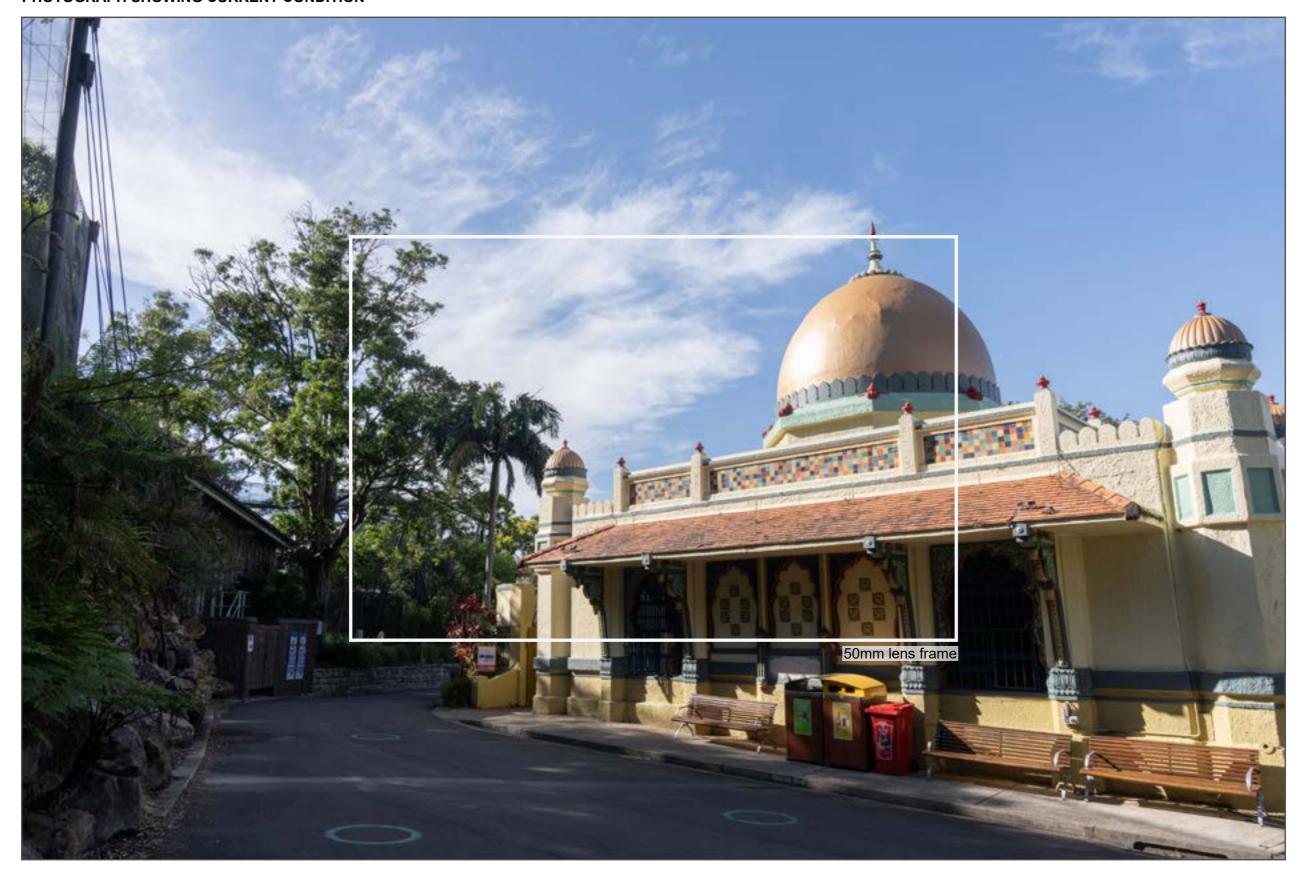
Sensor: 24mm Focal length:

#### SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT

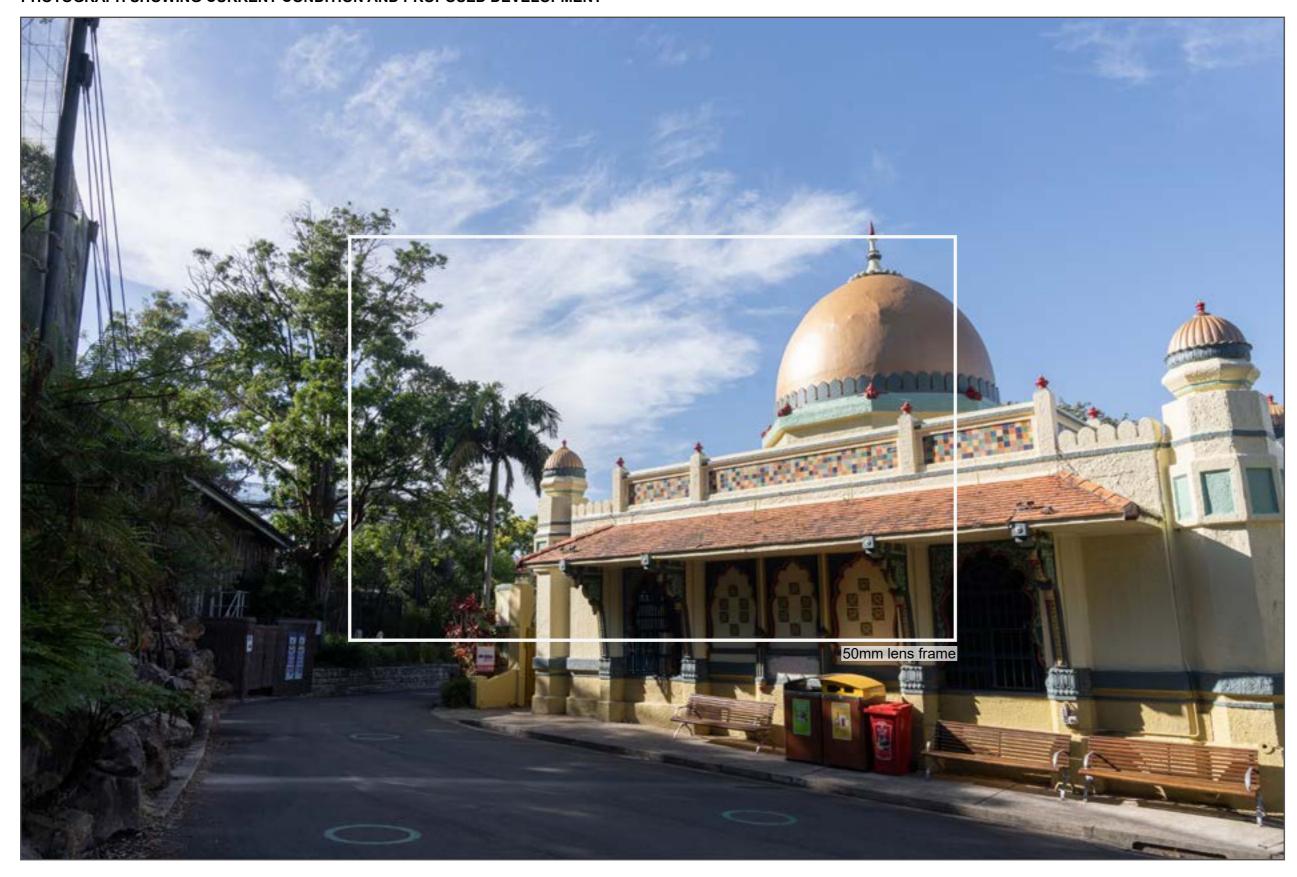




# **5.8 VIEWPOINT POSITION 08**



# **5.8 VIEWPOINT POSITION 08**



## **5.9 VIEWPOINT POSITION 09**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 10\_24mm\_01 Virtual Ideas File Name:

Author: ARW Format:

Date:

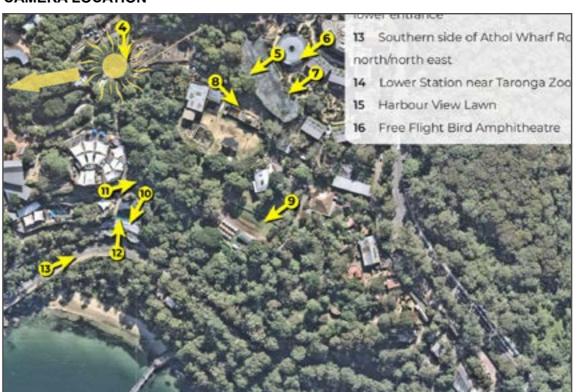
Time:

18 January 2023 7:47am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

Sensor: 24mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.9 VIEWPOINT POSITION 09**

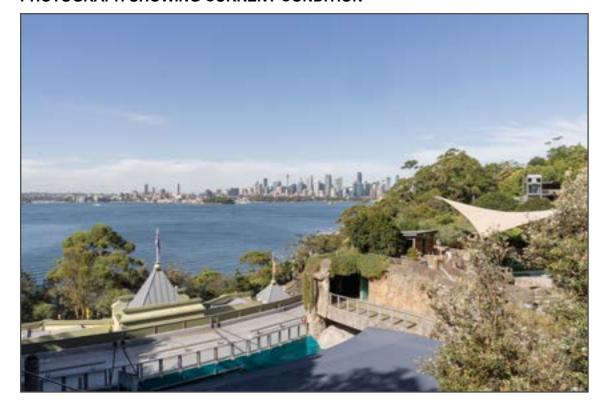


# **5.9 VIEWPOINT POSITION 09**

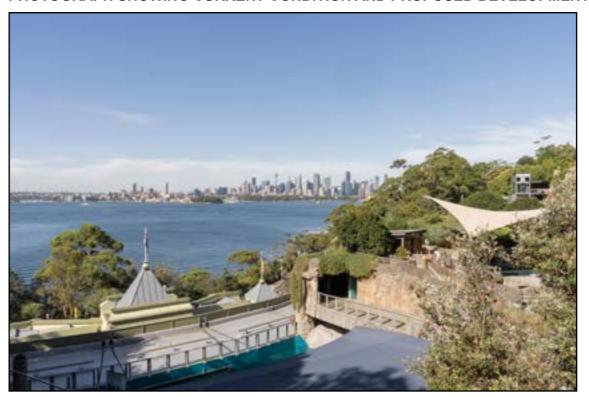


## **5.10 VIEWPOINT POSITION 10**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 11\_24mm\_02 Virtual Ideas File Name:

Author: ARW Format:

18 January 2023 Date:

7:58am Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

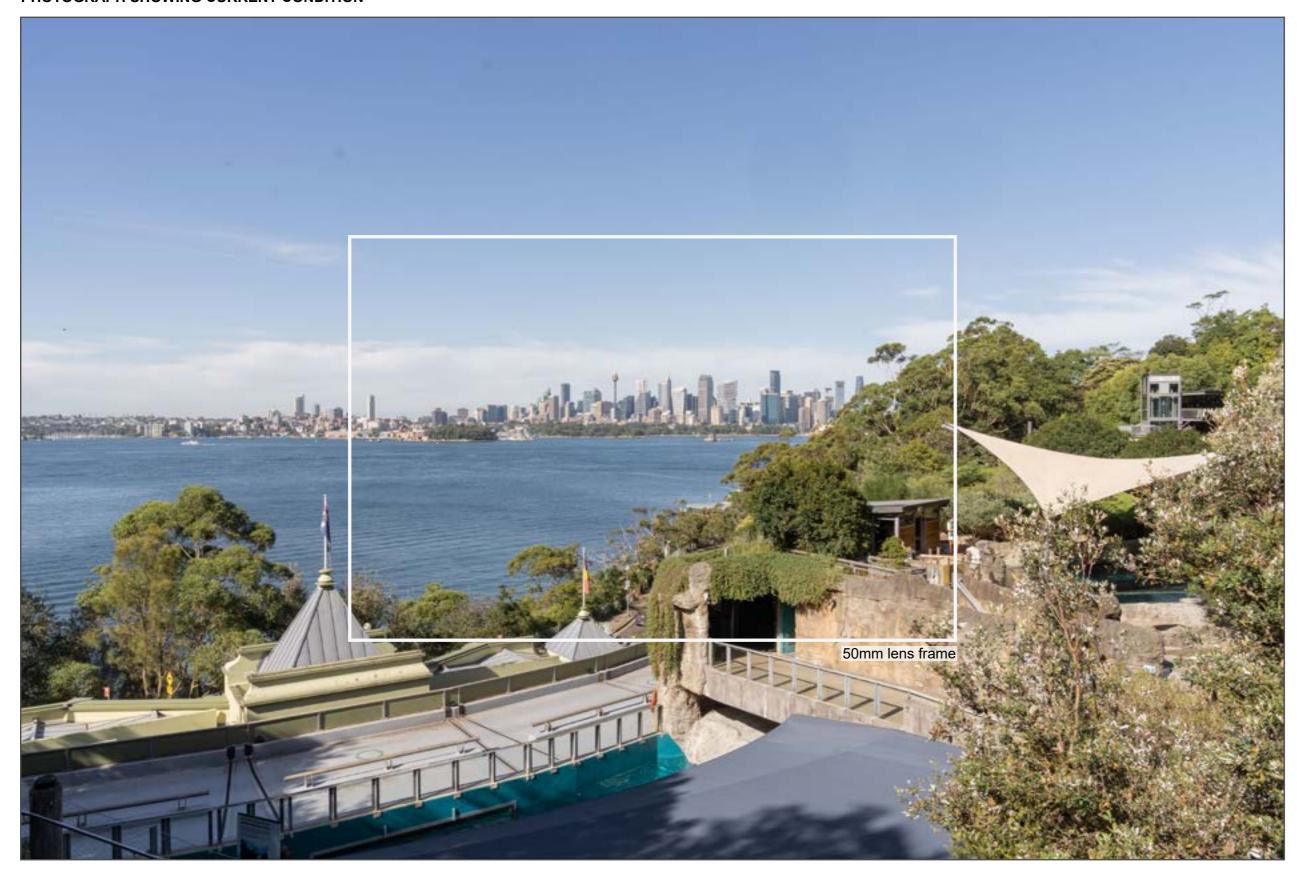
Sensor: 24mm Focal length:

#### SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT

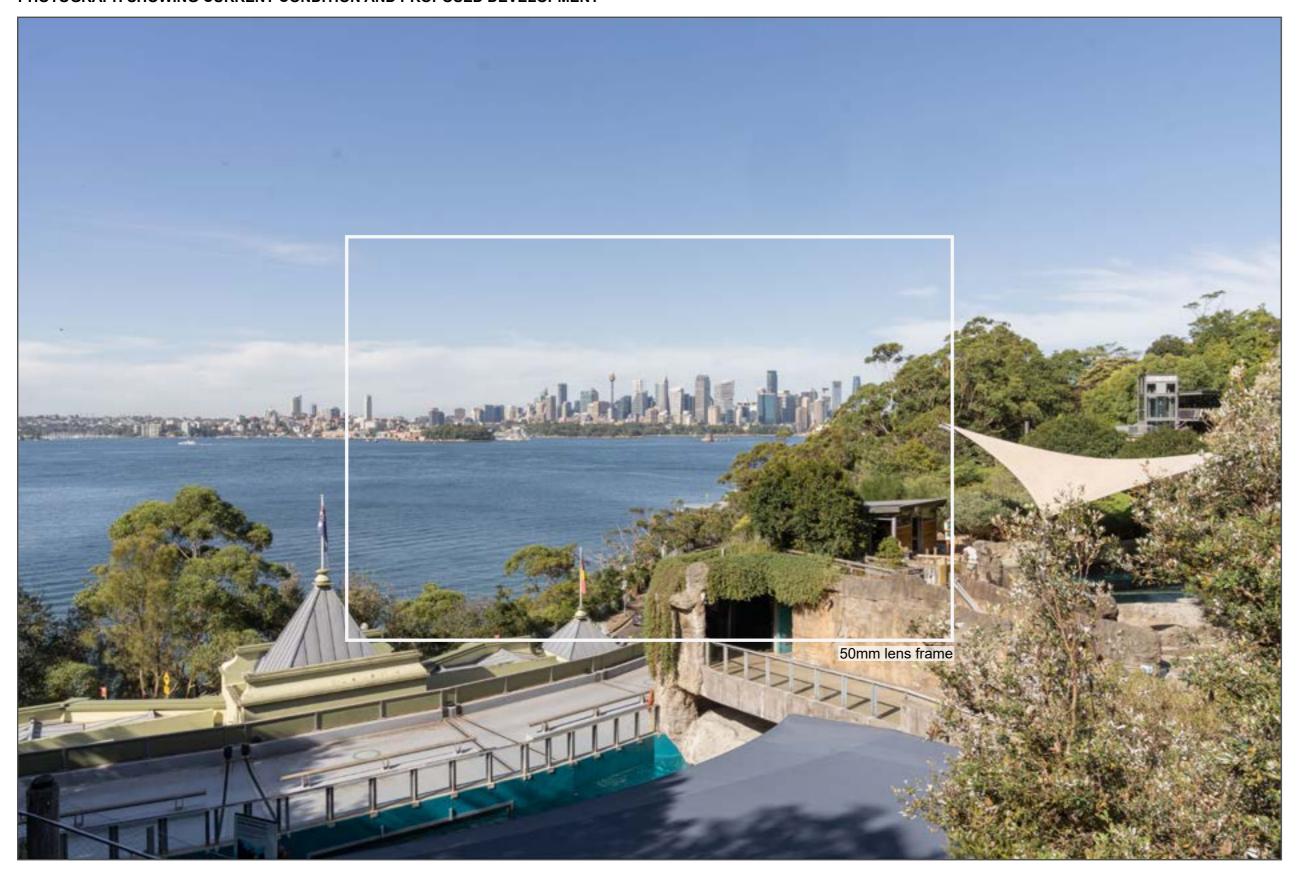




# **5.10 VIEWPOINT POSITION 10**

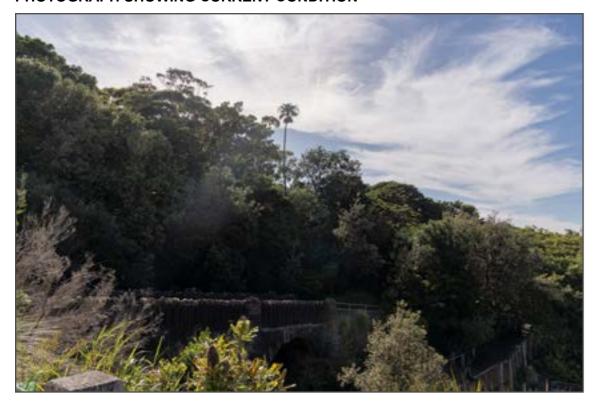


# **5.10 VIEWPOINT POSITION 10**

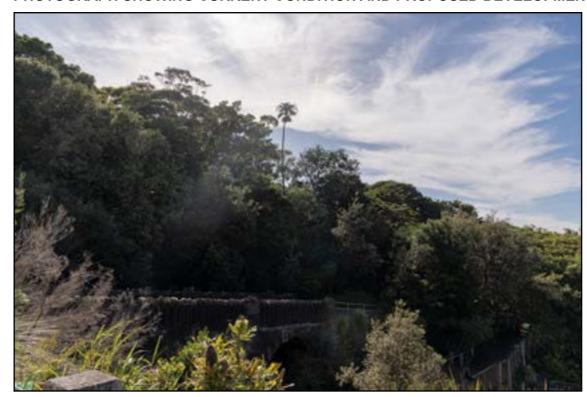


# **5.11 VIEWPOINT POSITION 11**

## PHOTOGRAPH SHOWING CURRENT CONDITION



# PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 12\_24mm\_02 Virtual Ideas File Name:

Author: ARW Format:

Date:

Time:

18 January 2023 8:04am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

Sensor: 24mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.11 VIEWPOINT POSITION 11**



# **5.11 VIEWPOINT POSITION 11**



# **5.12 VIEWPOINT POSITION 12**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



## PHOTOGRAPH DETAILS

TZ\_View 13\_24mm\_01 Virtual Ideas File Name:

Author: ARW Format:

18 January 2023 8:18am Date:

Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

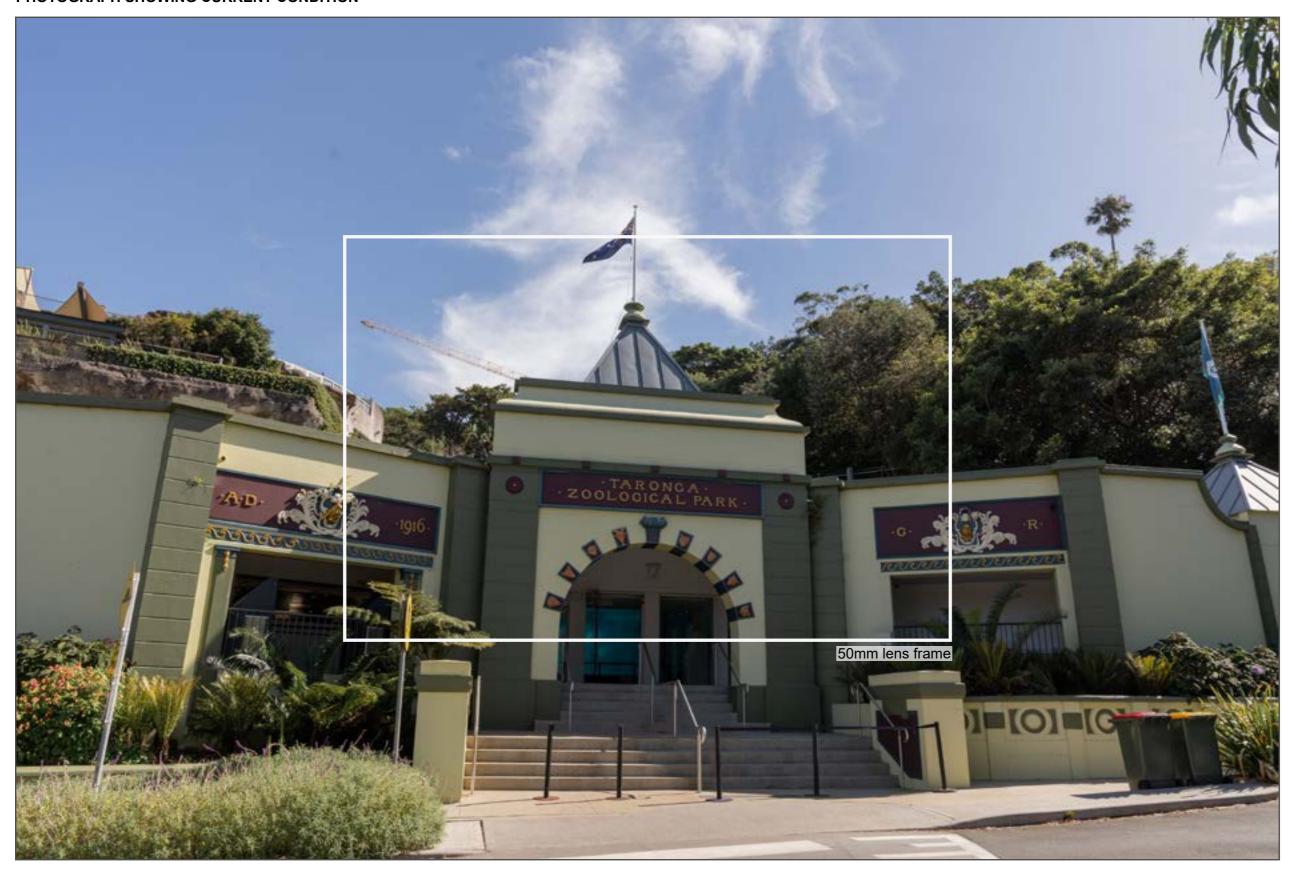
Sensor: 24mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

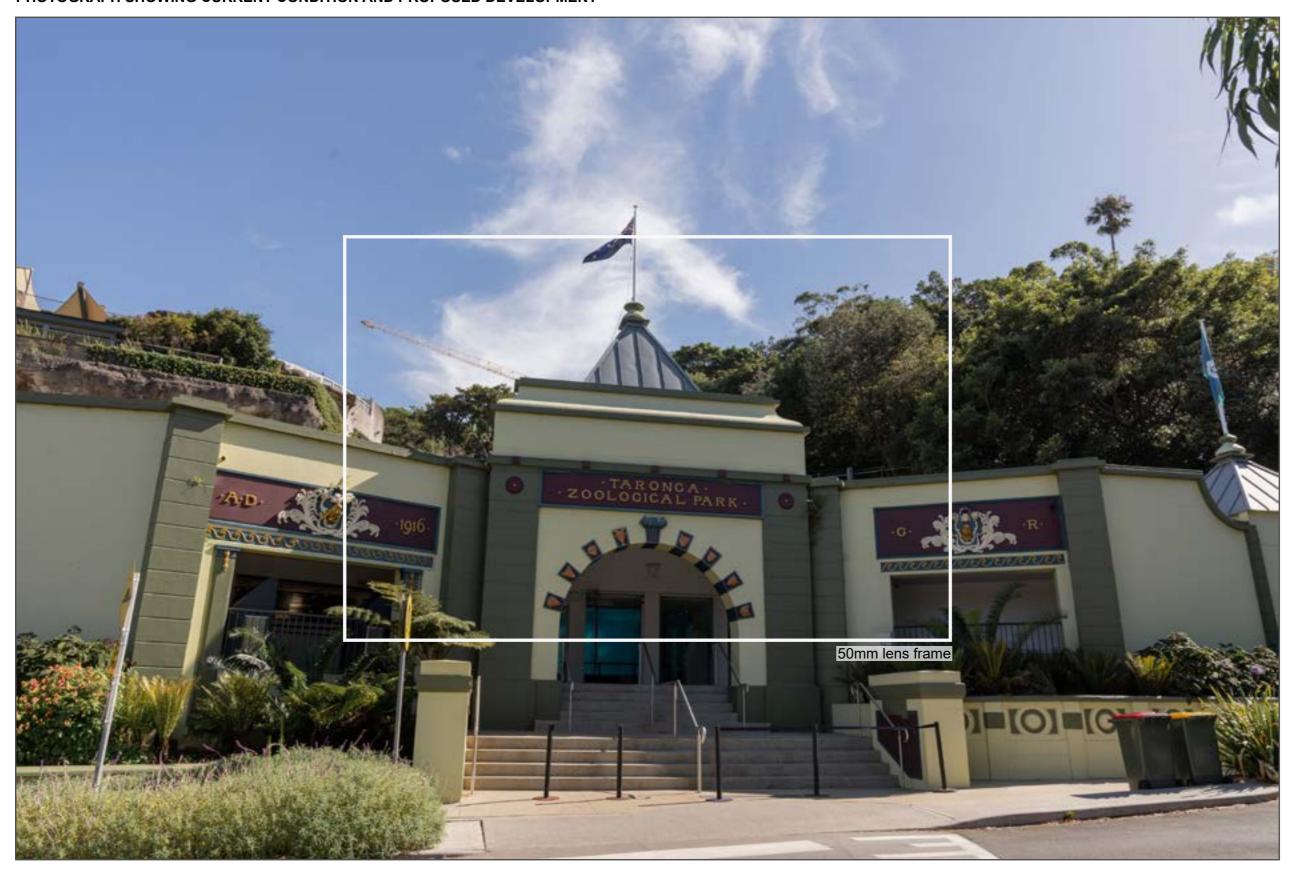




# **5.12 VIEWPOINT POSITION 12**



# **5.12 VIEWPOINT POSITION 12**



# **5.13 VIEWPOINT POSITION 13**

## PHOTOGRAPH SHOWING CURRENT CONDITION



# PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 14\_24mm\_01 Virtual Ideas File Name:

Author: ARW Format:

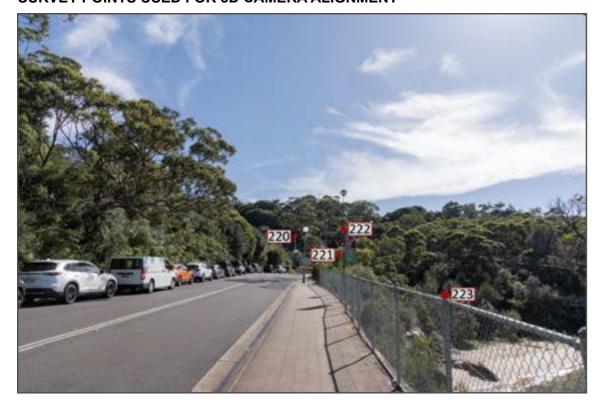
Date:

Time:

18 January 2023 8:24am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

Sensor: 24mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.13 VIEWPOINT POSITION 13**



# **5.13 VIEWPOINT POSITION 13**



# **5.14 VIEWPOINT POSITION 14**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



## PHOTOGRAPH DETAILS

TZ\_View 15\_24mm\_02 Virtual Ideas File Name:

Author: ARW Format:

Date:

Time:

18 January 2023 8:30am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model: Sensor:

24mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

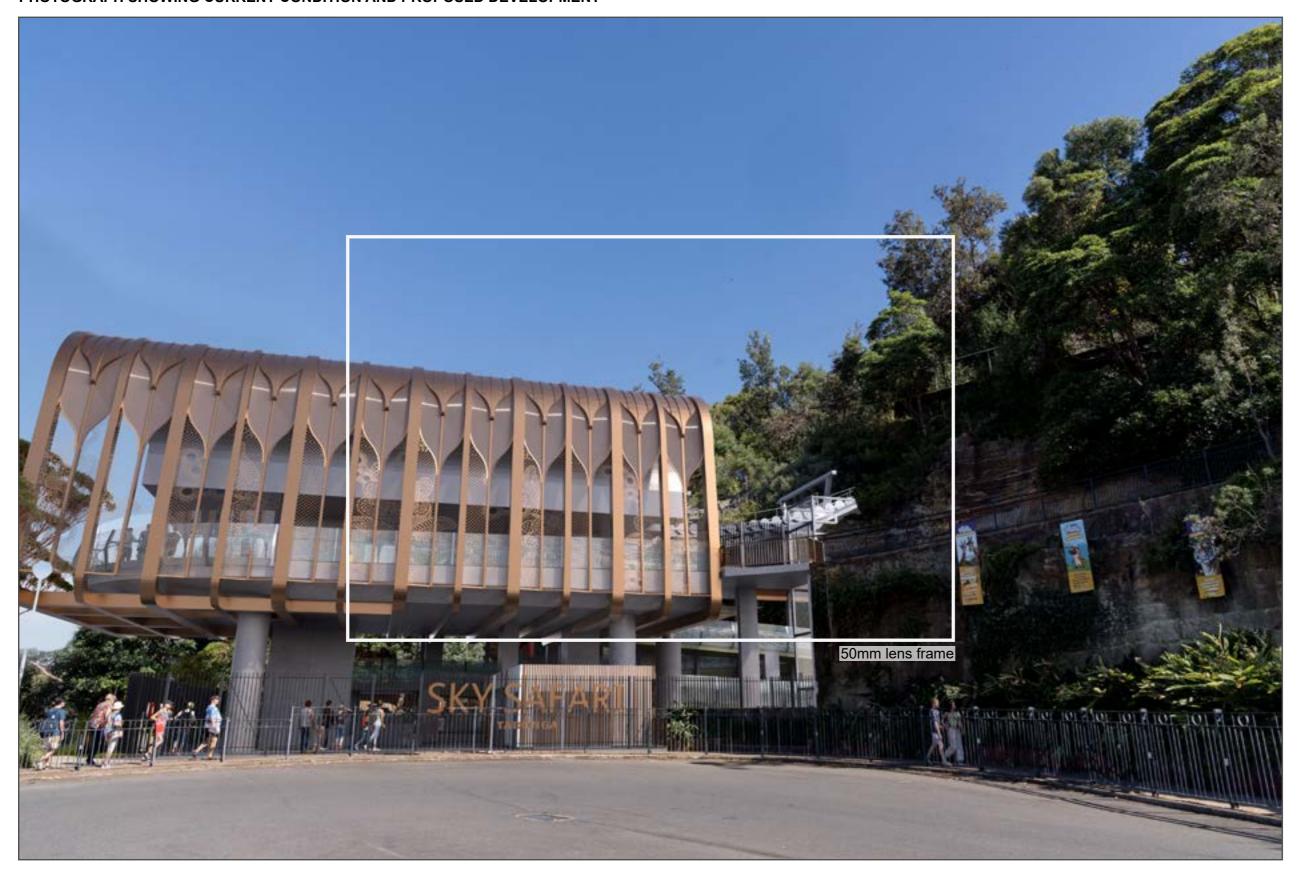




# **5.14 VIEWPOINT POSITION 14**



# **5.14 VIEWPOINT POSITION 14**

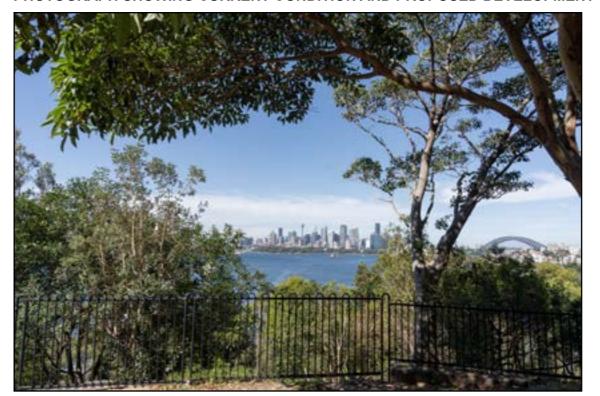


# **5.15 VIEWPOINT POSITION 15**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



## PHOTOGRAPH DETAILS

TZ\_View 16\_24mm\_03 Virtual Ideas File Name: Author:

ARW Format:

Date:

Time:

18 January 2023 8:47am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

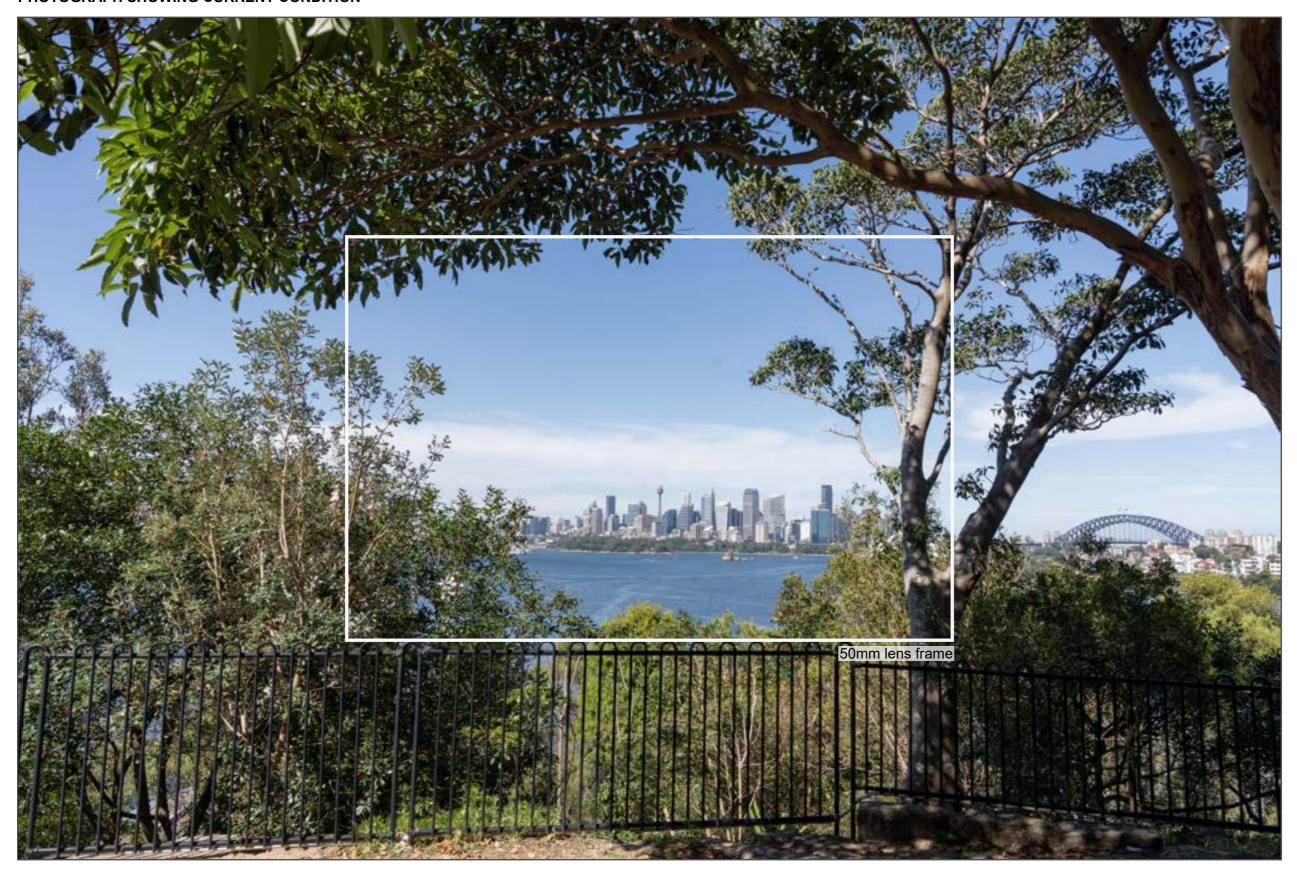
Sensor: 24mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

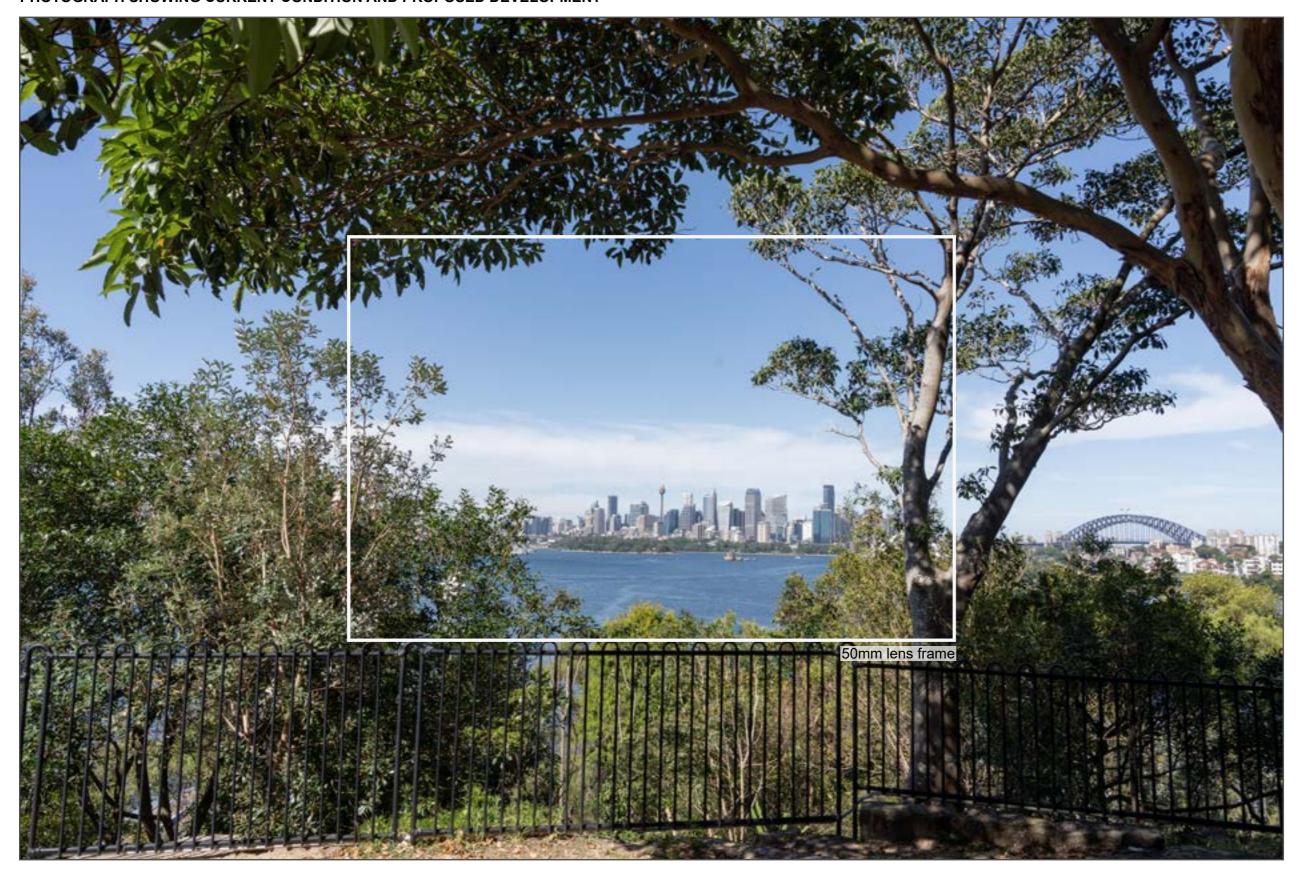




# **5.15 VIEWPOINT POSITION 15**



# **5.15 VIEWPOINT POSITION 15**



# **5.16 VIEWPOINT POSITION 16**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 17\_24mm\_03 Virtual Ideas File Name:

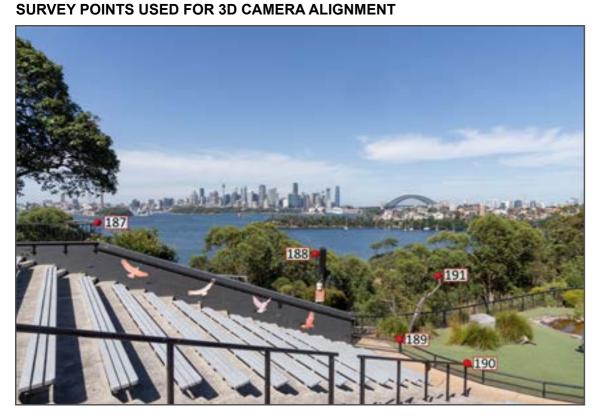
Author: ARW Format:

Date:

Time:

18 January 2023 8:53am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

Sensor: 24mm Focal length:





# **5.16 VIEWPOINT POSITION 16**



# **5.16 VIEWPOINT POSITION 16**



# **5.17A VIEWPOINT POSITION 17 - DAY**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 18\_35mm Virtual Ideas File Name: Author: ARW Format:

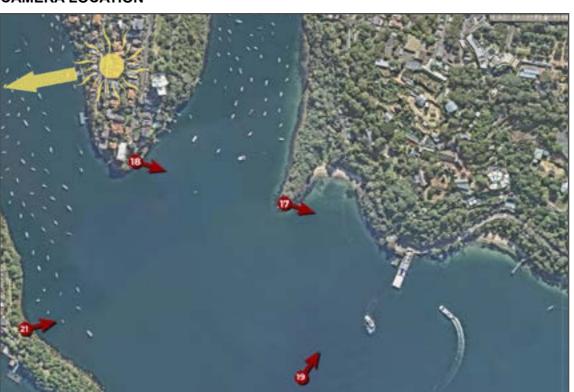
Date: Time:

19 January 2023 8:45am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

Sensor: 35mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.17A VIEWPOINT POSITION 17 - DAY**

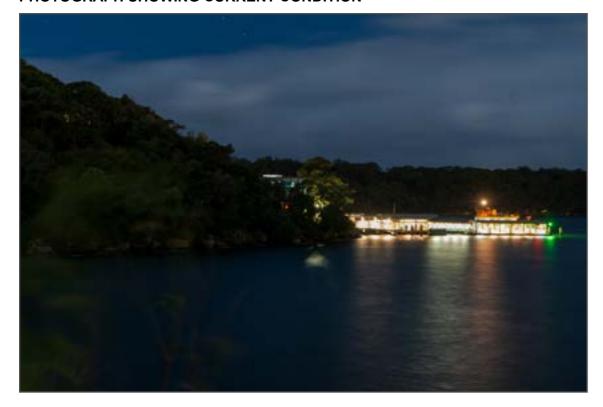


# **5.17A VIEWPOINT POSITION 17 - DAY**

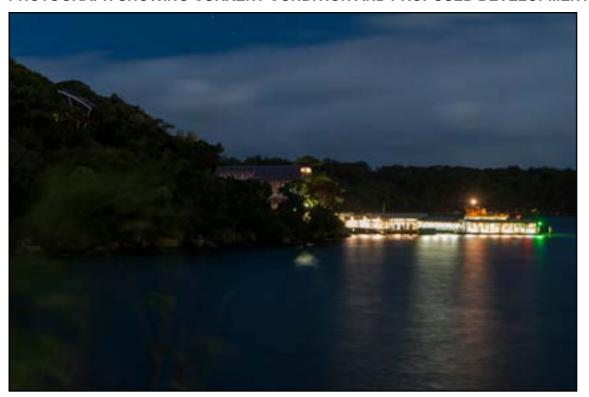


# **5.17B VIEWPOINT POSITION 17 - NIGHT**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



View 17\_Night\_50mm\_02 Virtual Ideas File Name:

Author: ARW Format:

17 June 2024 Date: 7:12pm Time:

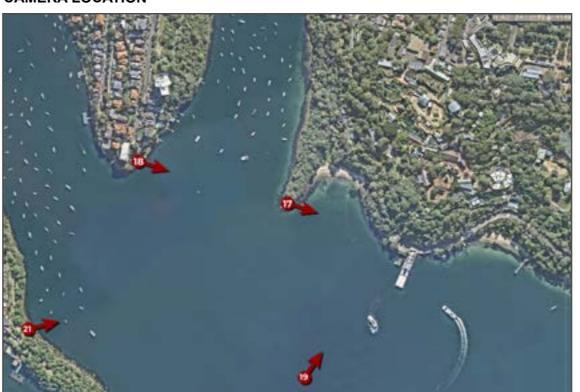
FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Full frame Lens:

Model:

Sensor: 50mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

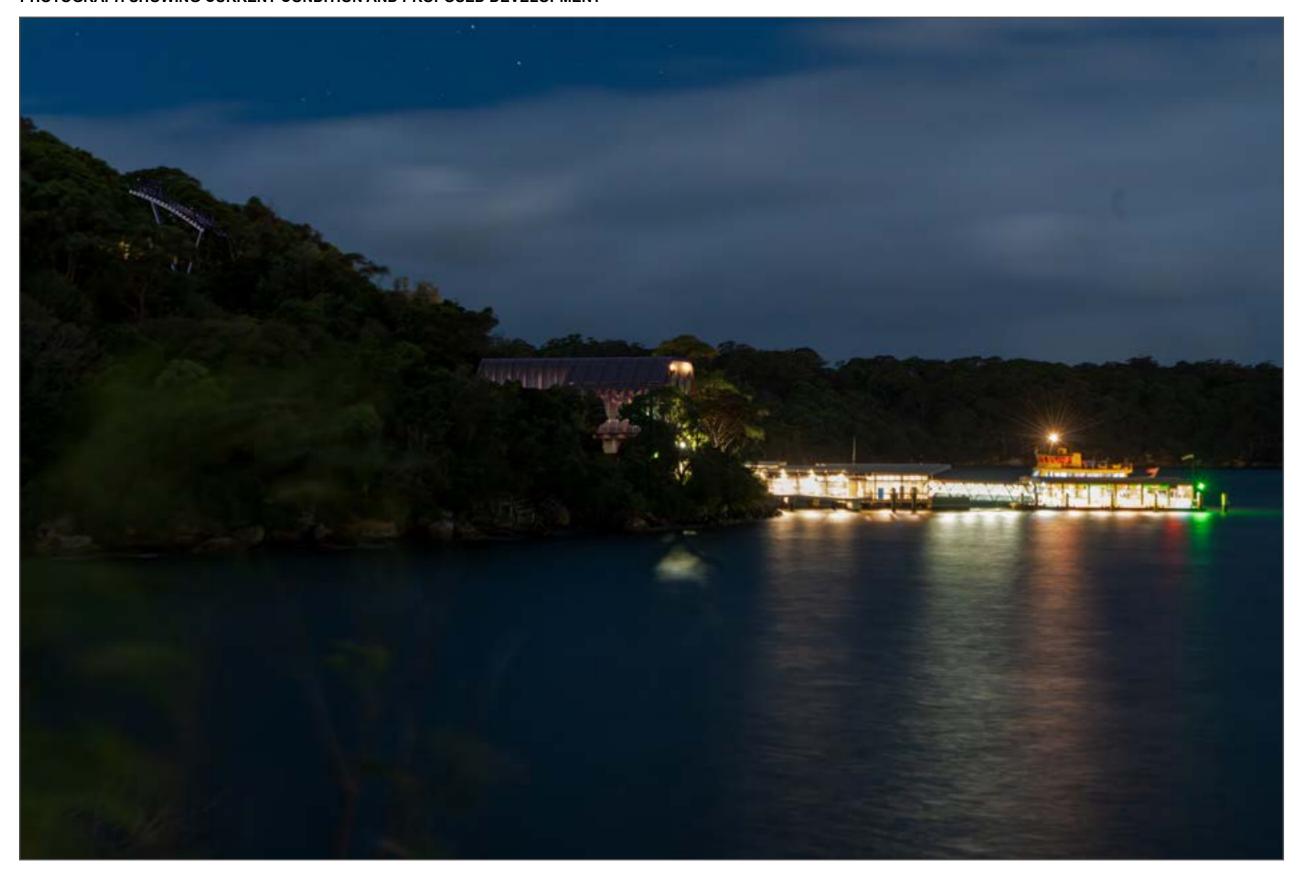




# **5.17B VIEWPOINT POSITION 17 - NIGHT**



# **5.17B VIEWPOINT POSITION 17 - NIGHT**



# **5.18A VIEWPOINT POSITION 18 - DAY**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 19\_50mm Virtual Ideas File Name: Author: ARW Format:

18 January 2023 10:55am Date:

Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

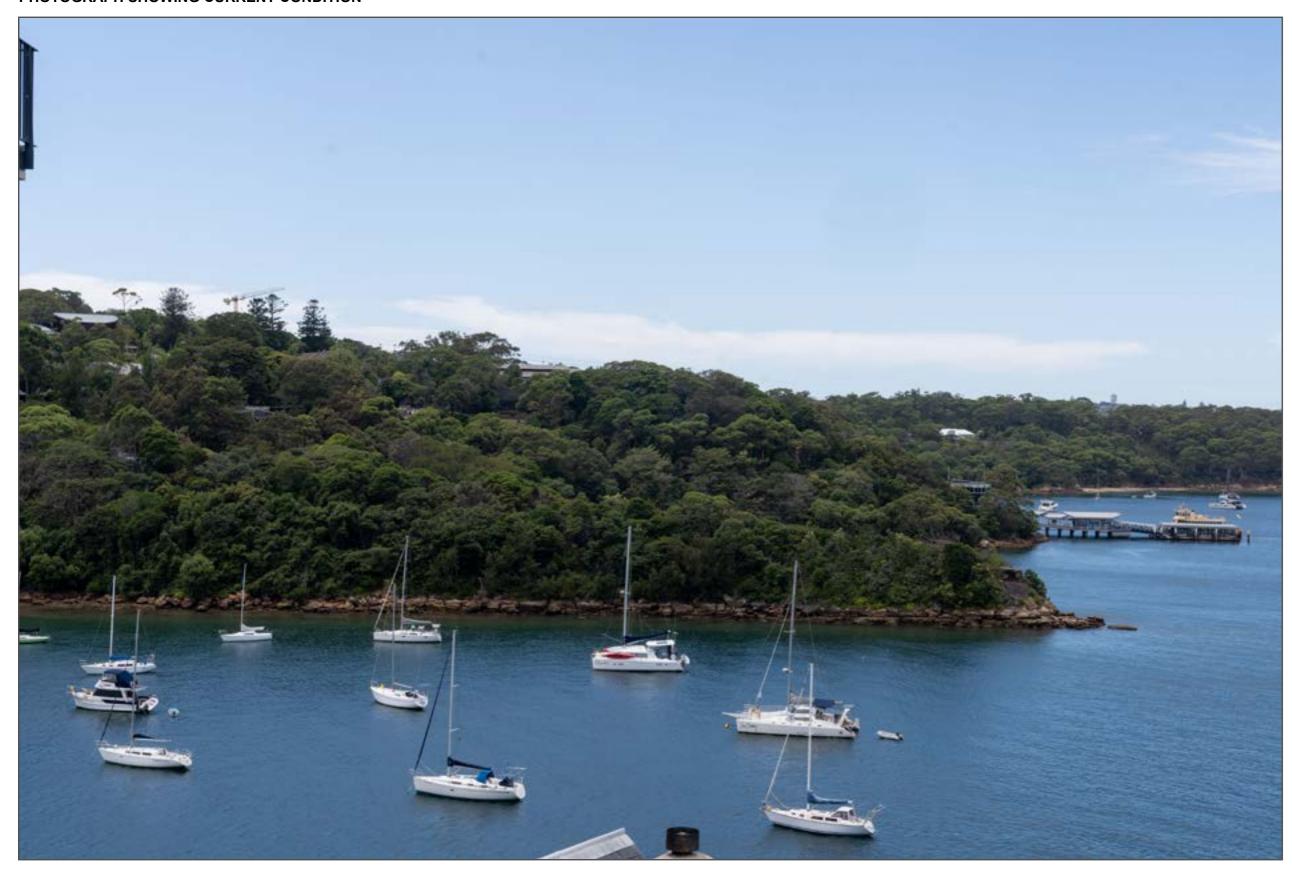
Sensor: 50mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.18A VIEWPOINT POSITION 18 - DAY**

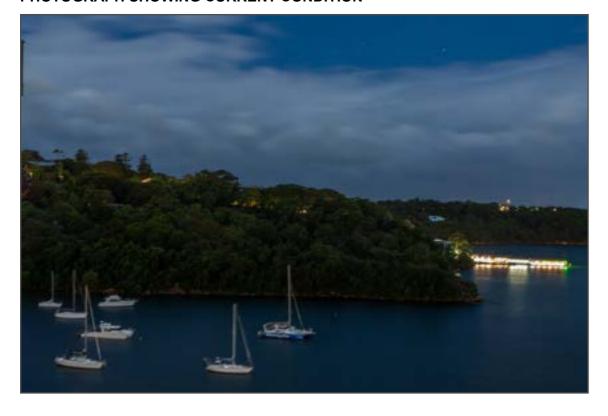


# **5.18A VIEWPOINT POSITION 18 - DAY**



# **5.18B VIEWPOINT POSITION 18 - NIGHT**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



View 18\_Night\_50mm\_03 Virtual Ideas File Name:

Author: ARW Format:

17 June 2024 Date:

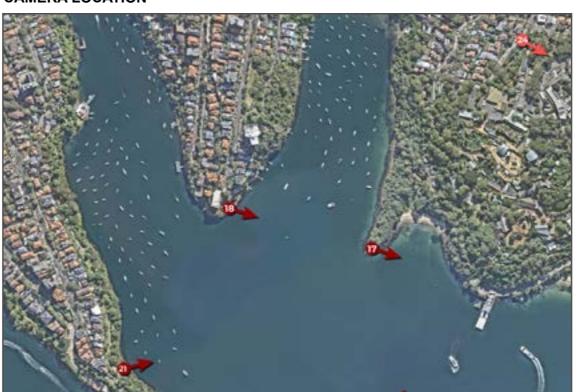
6:24pm FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Full frame Time:

Model: Sensor:

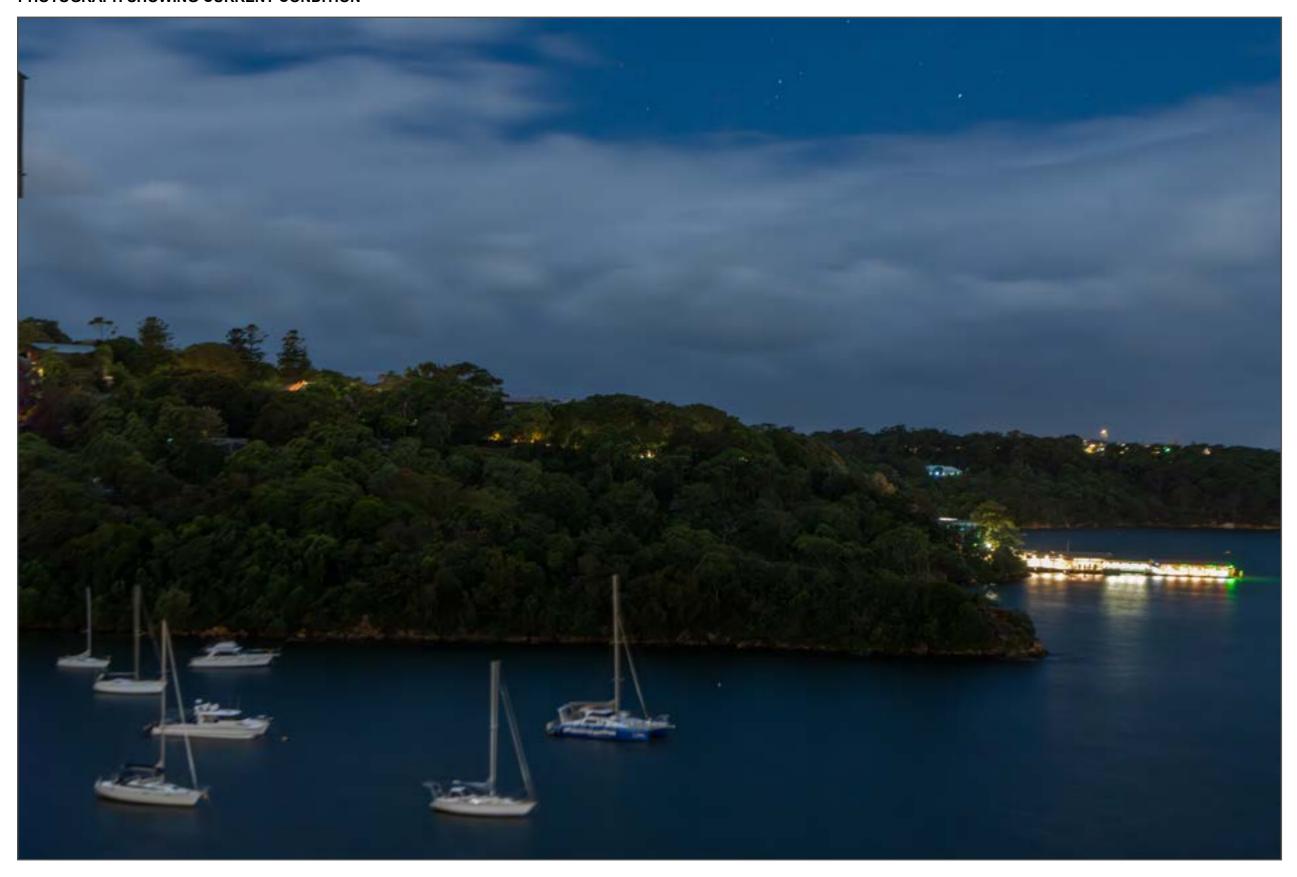
### 50mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

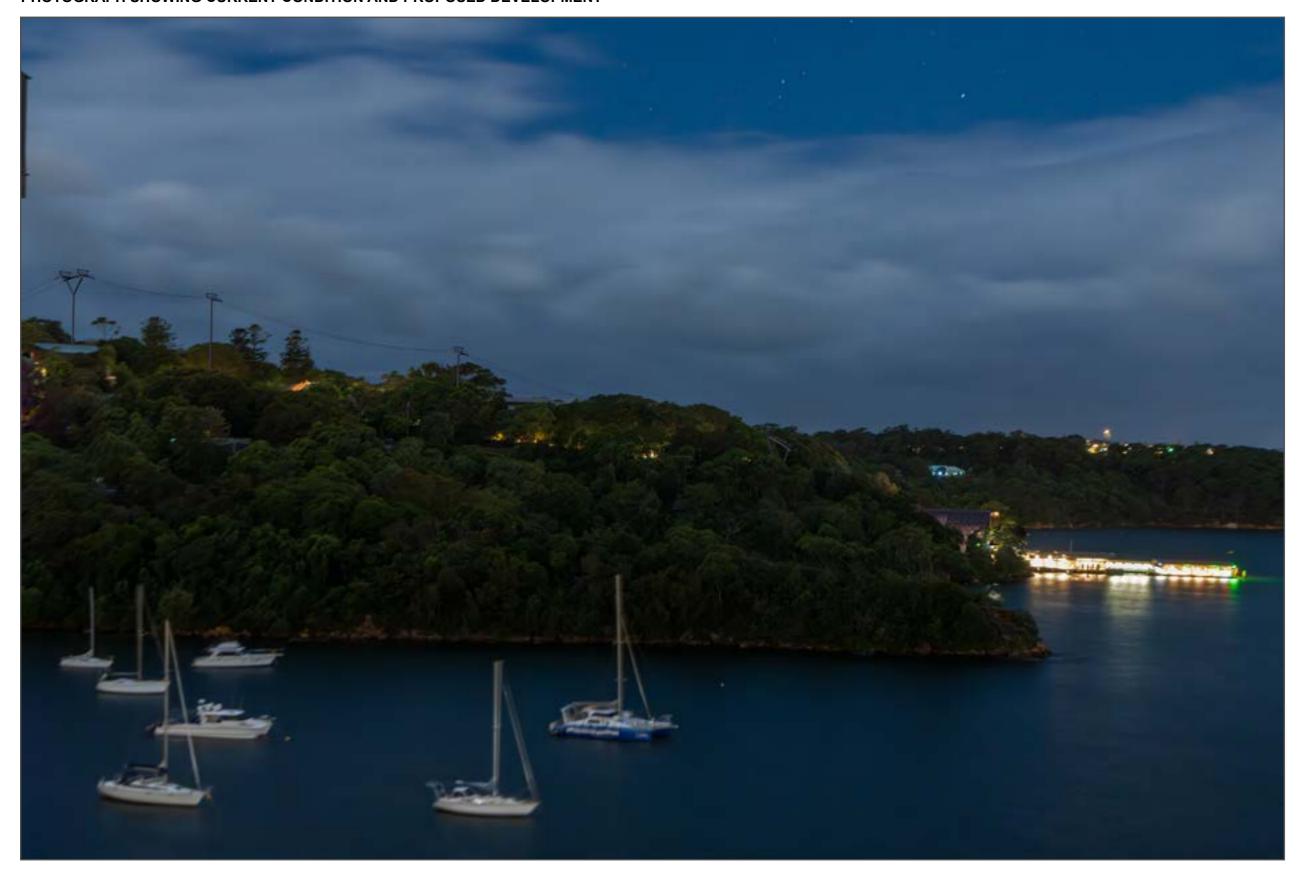




# **5.18B VIEWPOINT POSITION 18 - NIGHT**



# **5.18B VIEWPOINT POSITION 18 - NIGHT**



# **5.19A VIEWPOINT POSITION 19 - DAY**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



Cam Water 02\_50mm\_02 Virtual Ideas File Name: Author: ARW Format: 3 April 2024 Date: 2:50pm DT 0mm F0 SAM Sony ILCE-7C Full frame Time:

Model: Sensor: 50mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.19A VIEWPOINT POSITION 19 - DAY**

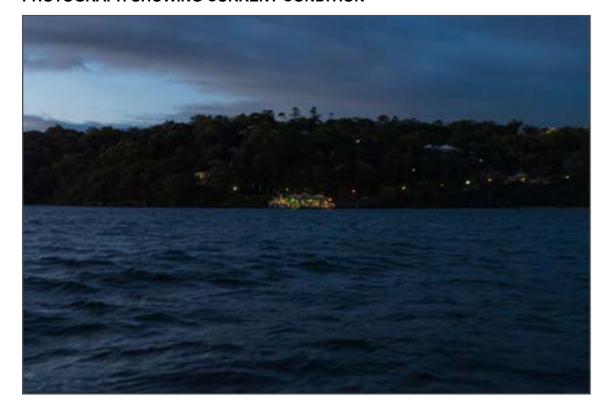


# **5.19A VIEWPOINT POSITION 19 - DAY**

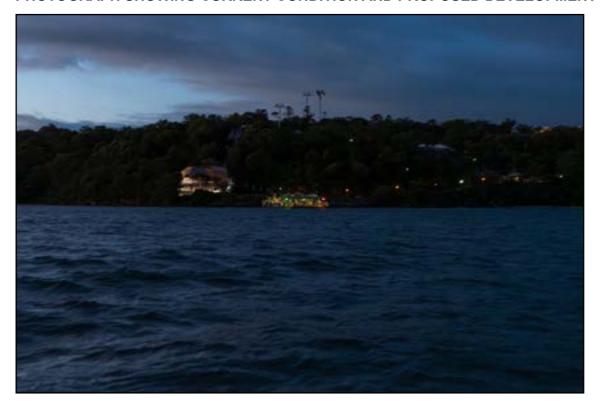


# **5.19B VIEWPOINT POSITION 19 - NIGHT**

## PHOTOGRAPH SHOWING CURRENT CONDITION



## PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



## PHOTOGRAPH DETAILS

View 19\_Night\_Pos 01\_50mm\_03 Virtual Ideas File Name:

Author: ARW Format:

17 June 2024 Date: 5:12pm Time:

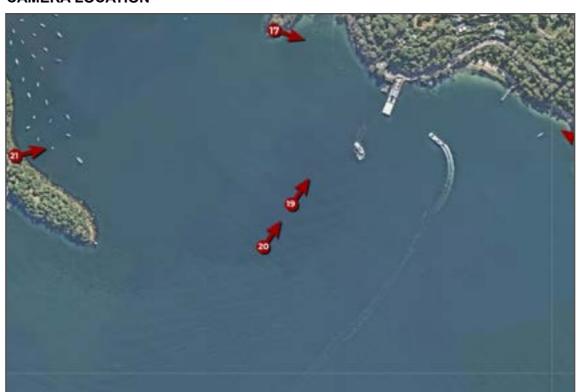
FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Lens:

Model: Full frame Sensor:

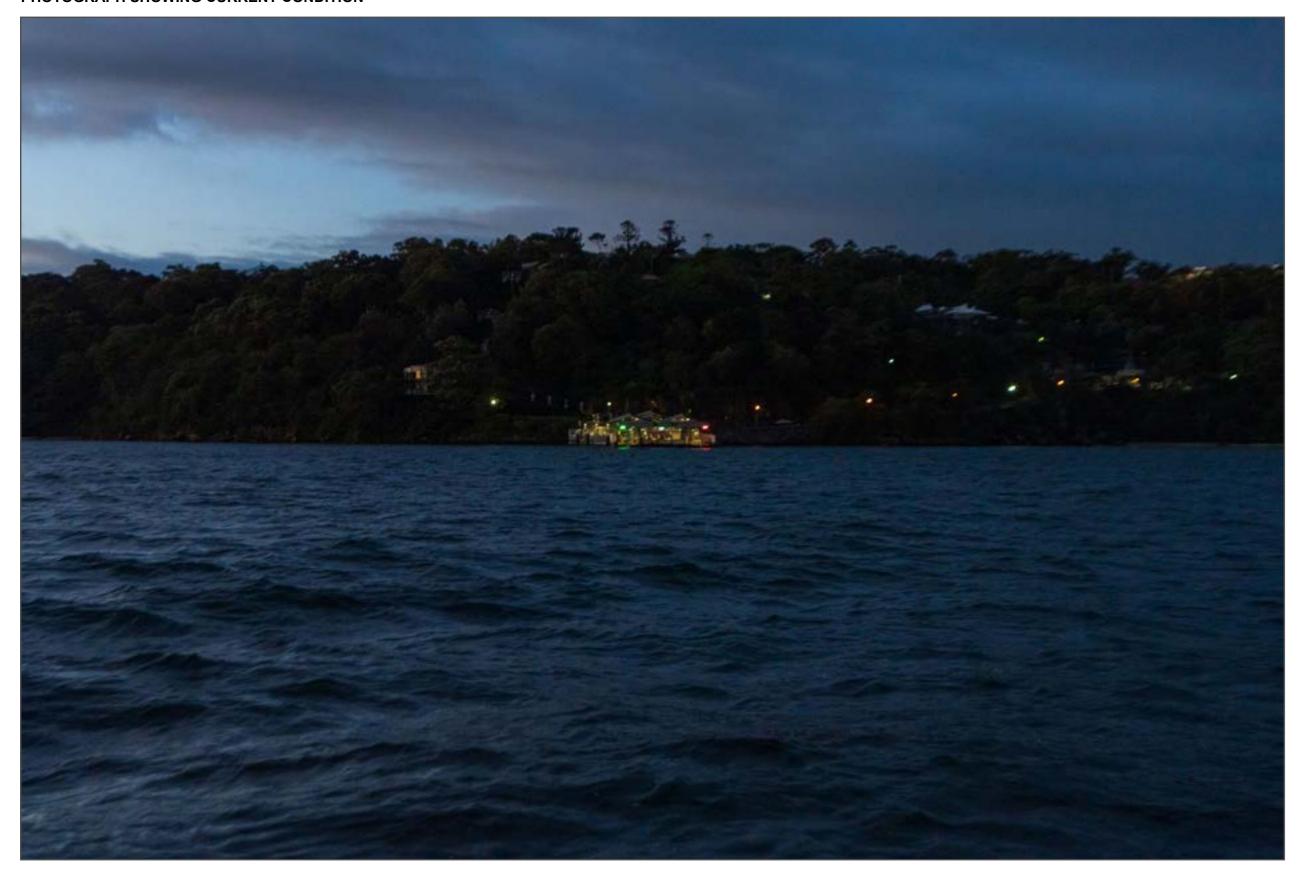
50mm Focal length:

## **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

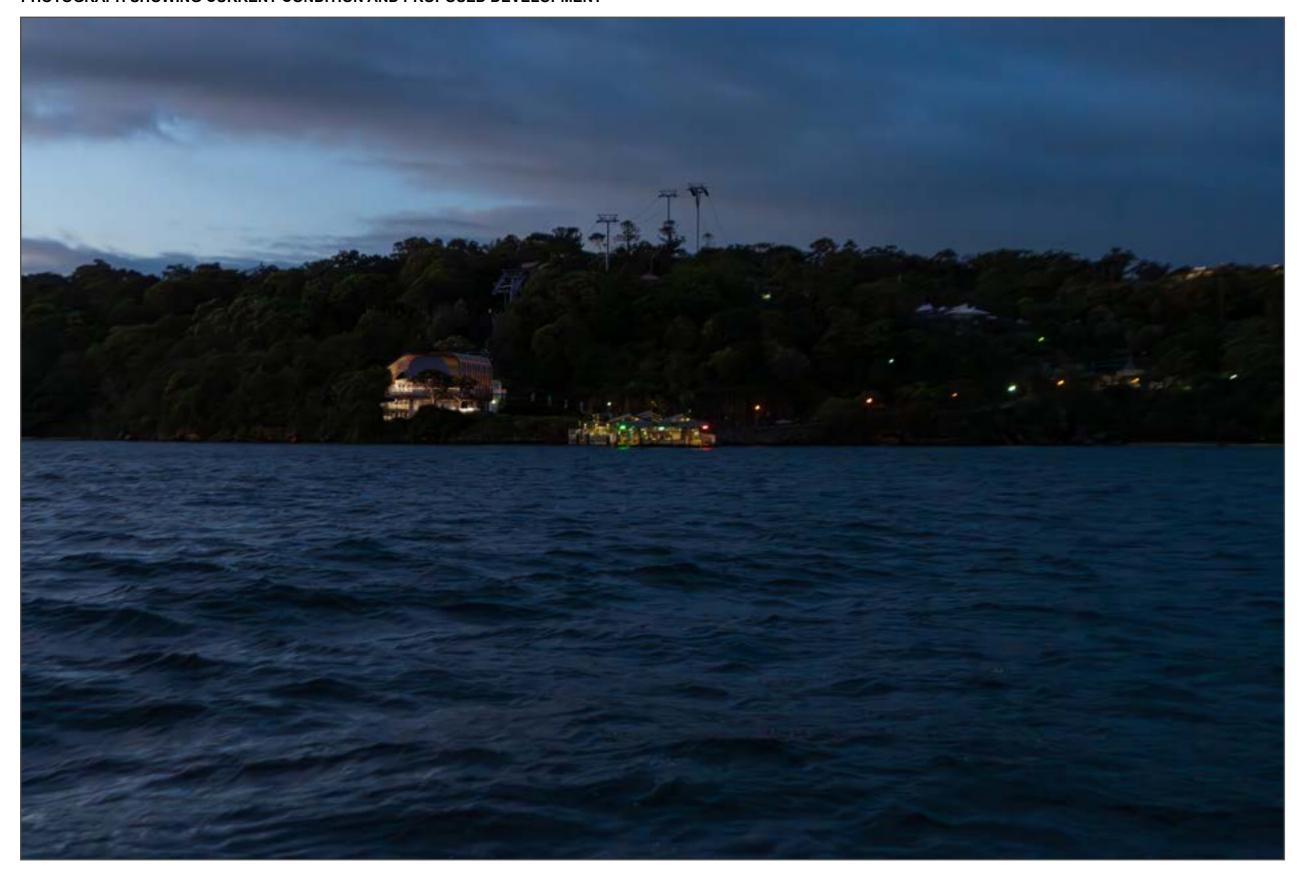




# **5.19B VIEWPOINT POSITION 19 - NIGHT**



# **5.19B VIEWPOINT POSITION 19 - NIGHT**



# **5.20 VIEWPOINT POSITION 20**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



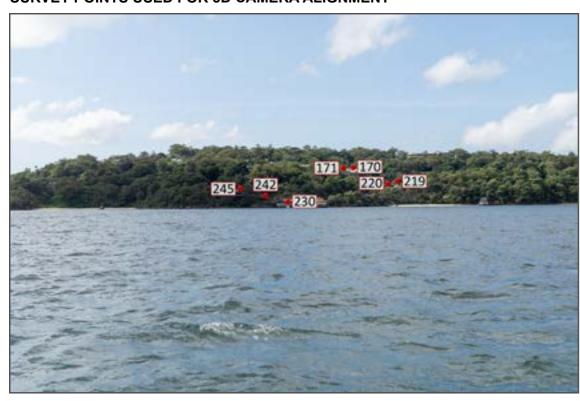
Sensor:

Focal length:

Cam Water 01\_50mm Virtual Ideas File Name: Author: ARW Format: 3 April 2024 Date: 2:30pm DT 0mm F0 SAM Sony ILCE-7C Full frame Time: Model:

50mm

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.20 VIEWPOINT POSITION 20**



# **5.20 VIEWPOINT POSITION 20**



# **5.21A VIEWPOINT POSITION 21 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

File Name: View 21\_50mm\_01 Author: Virtual Ideas

Format: CR2

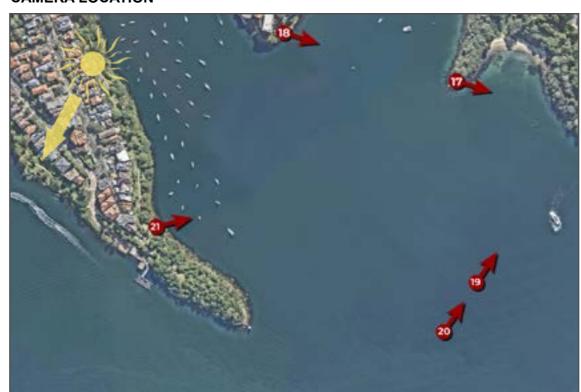
Date: 20 March 2023 Time: 11:47am

Lens: EF24-105mm f/4L IS USM
Model: Canon EOS 5DS R

Sensor: Full frame Focal length: 50mm

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.21A VIEWPOINT POSITION 21 - DAY**



# **5.21A VIEWPOINT POSITION 21 - DAY**



# **5.21B VIEWPOINT POSITION 21 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

File Name: View 20\_Night\_50mm\_02 Author: Virtual Ideas

Format: ARW

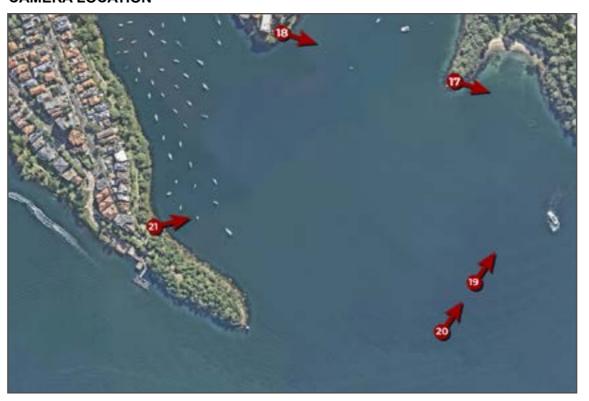
Date: 17 June 2024 Time: 5:52pm

Lens: FE 24-70mm F4 ZA OSS Model: Sony ILCE-7RM4A

Sensor: Full frame Focal length: 50mm

#### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

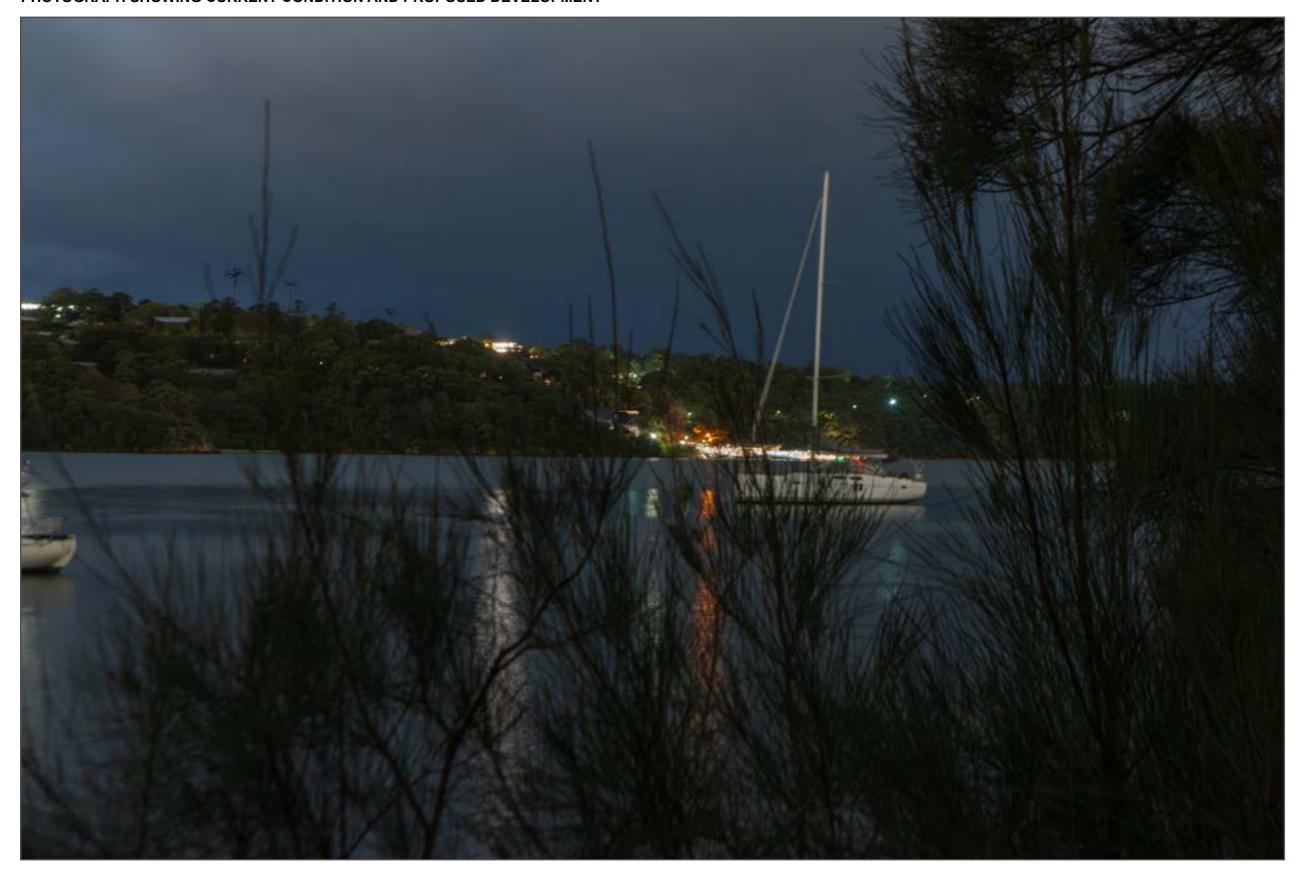




# **5.21B VIEWPOINT POSITION 21 - NIGHT**



# **5.21B VIEWPOINT POSITION 21 - NIGHT**



# **5.22A VIEWPOINT POSITION 22 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

TZ\_View 22\_Pos 01\_50mm Virtual Ideas File Name:

Author:

ARW Format:

18 January 2023 10:19am Date:

Time:

FE 24-70mm F2.8 GM Sony ILCE-7RM4A Lens: Model:

Full frame Sensor: 50mm Focal length:





# **5.22A VIEWPOINT POSITION 22 - DAY**

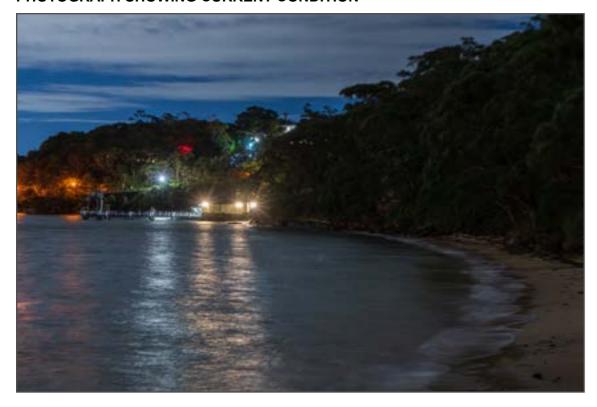


# **5.22A VIEWPOINT POSITION 22 - DAY**

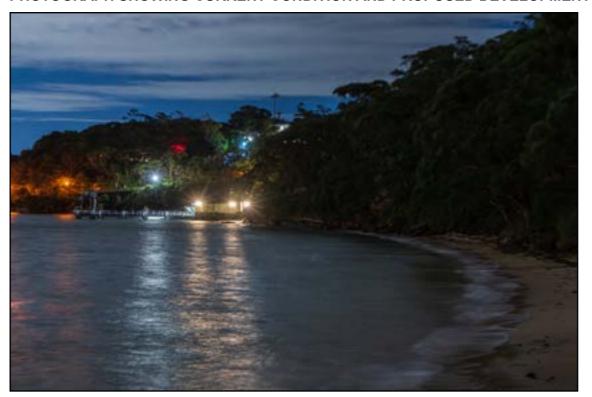


# **5.22B VIEWPOINT POSITION 22 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



View 21\_Night\_50mm\_03 Virtual Ideas File Name:

Author: ARW Format:

17 June 2024 Date: 7:40pm Time:

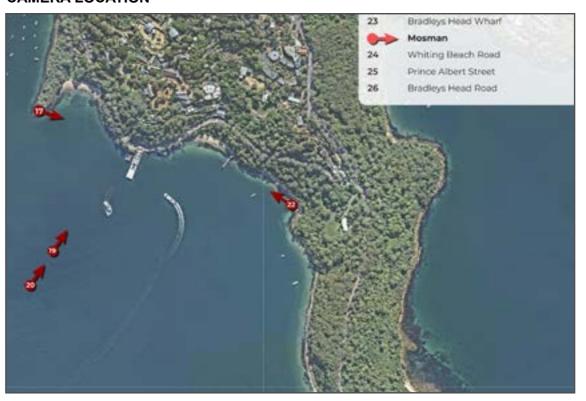
Lens:

FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Model:

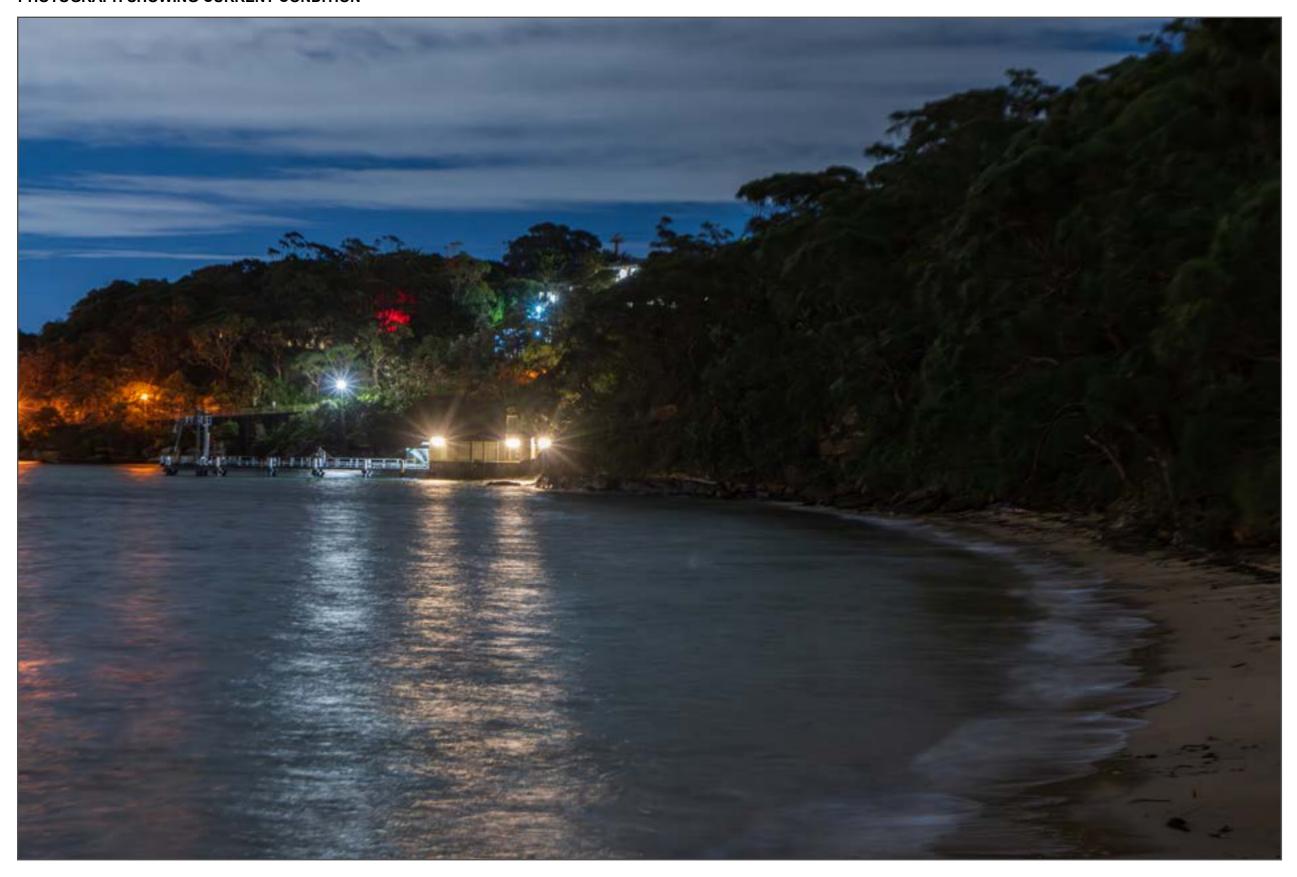
Full frame Sensor: 50mm Focal length:

#### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

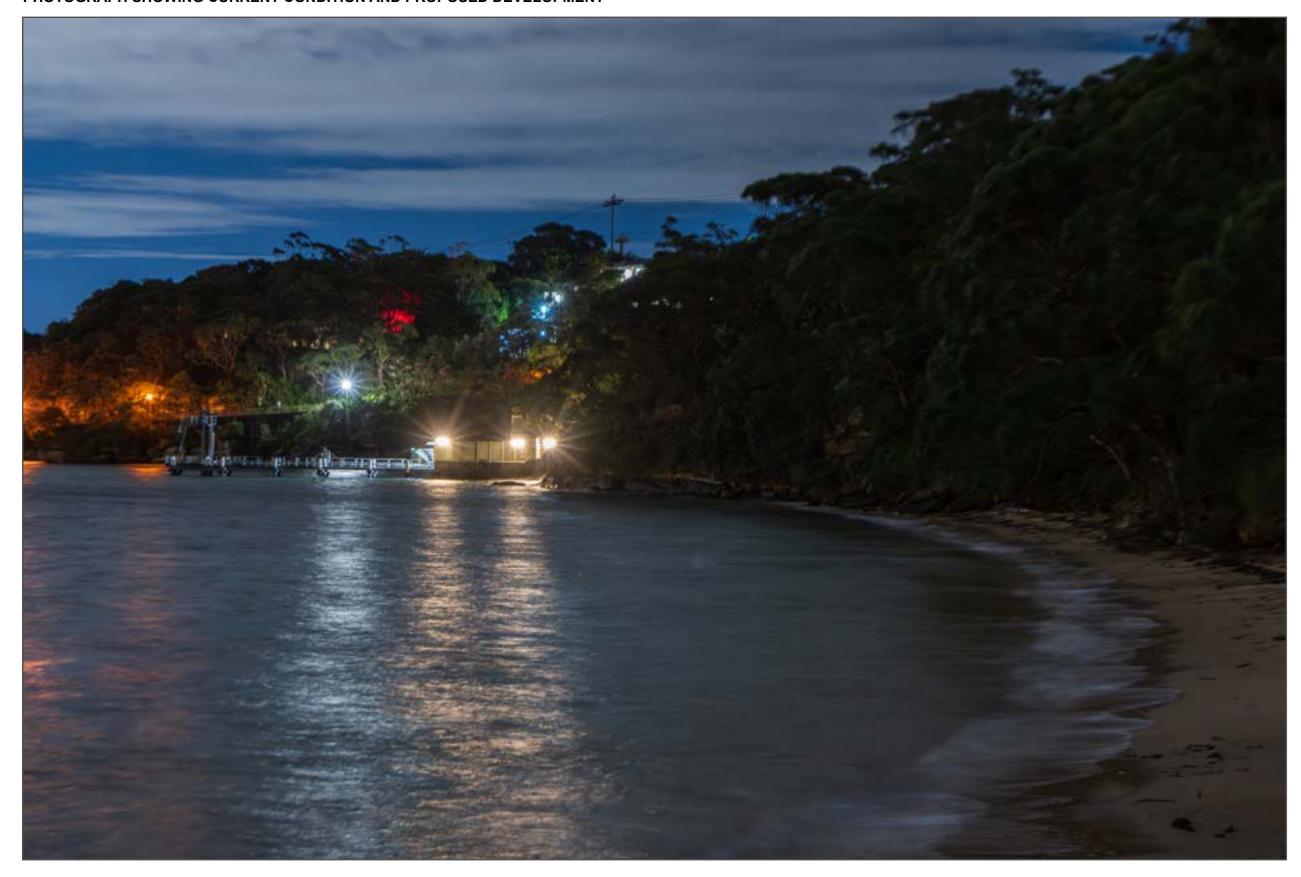




# **5.22B VIEWPOINT POSITION 22 - NIGHT**



# **5.22B VIEWPOINT POSITION 22 - NIGHT**



# **5.23A VIEWPOINT POSITION 23 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

TZ\_View 23\_50mm Virtual Ideas File Name: Author: ARW Format:

Date: Time:

18 January 2023 9:56am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

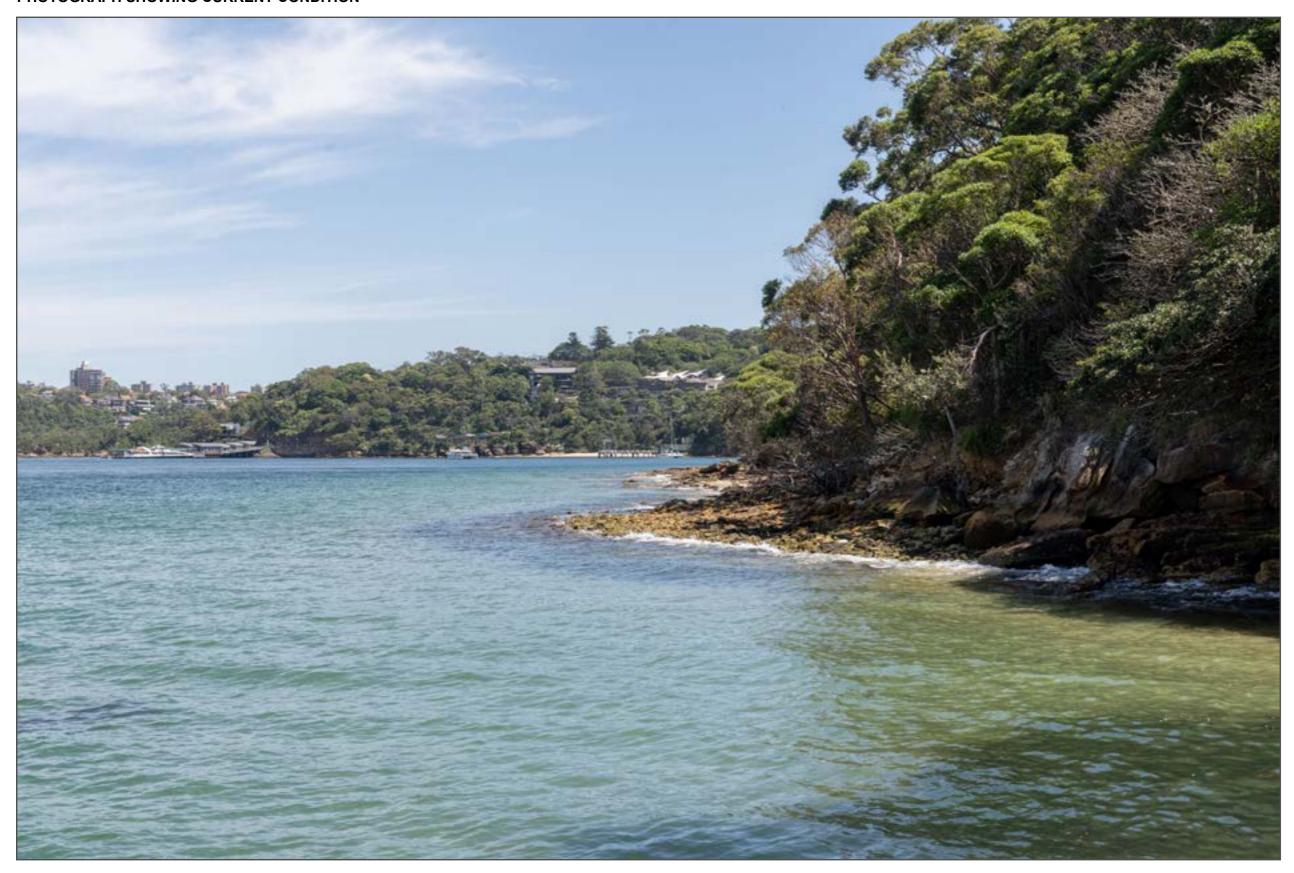
Sensor: 50mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

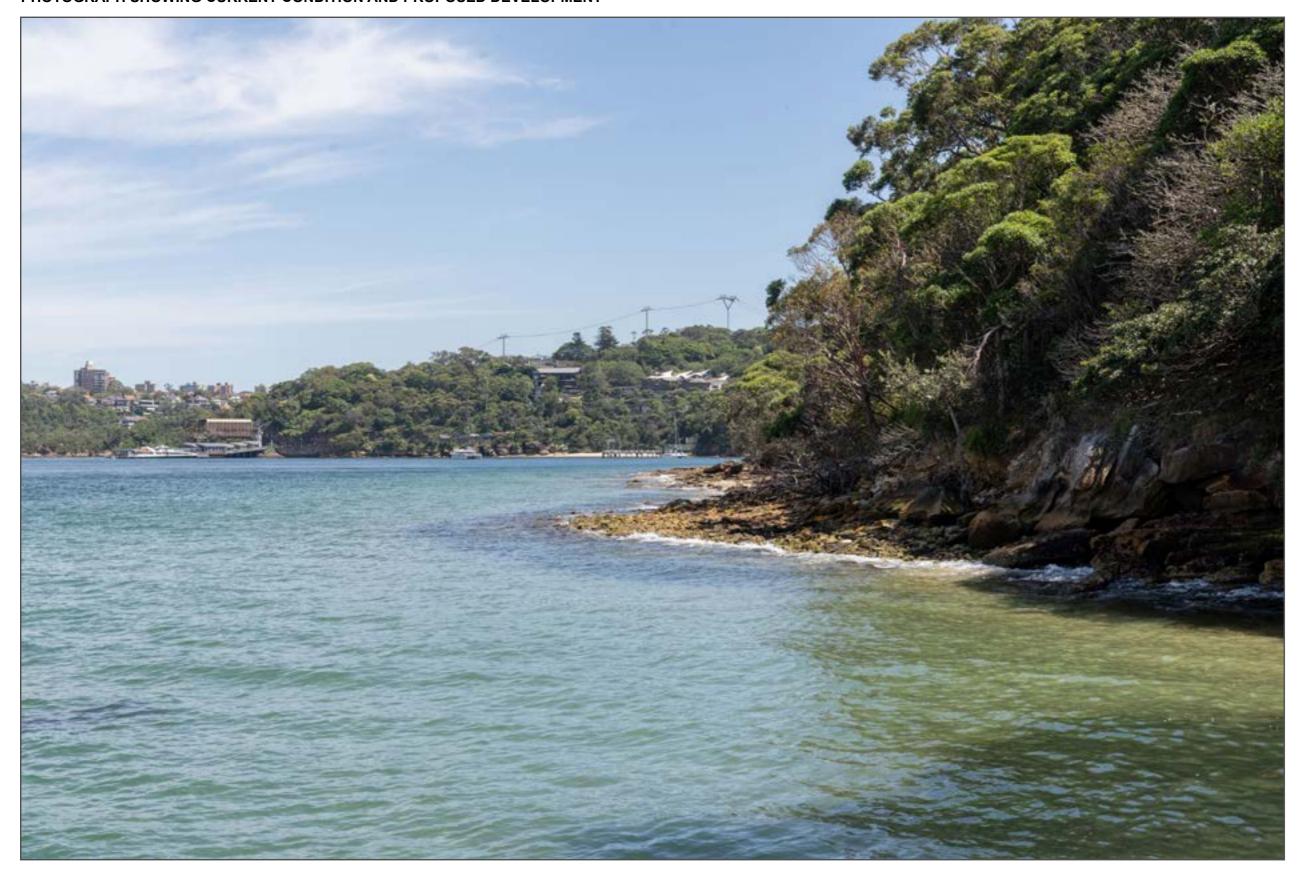




# **5.23A VIEWPOINT POSITION 23 - DAY**

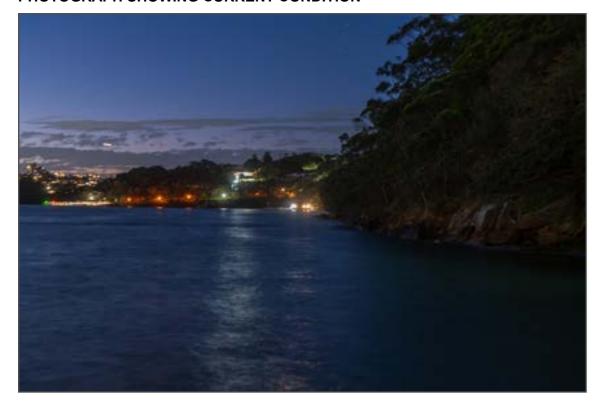


# **5.23A VIEWPOINT POSITION 23 - DAY**

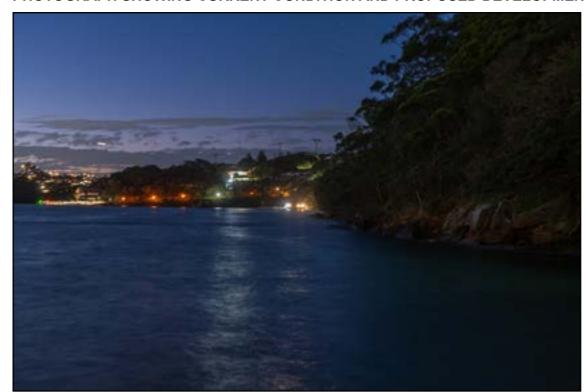


# **5.23B VIEWPOINT POSITION 23 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

View 22\_Night\_50mm\_02 Virtual Ideas File Name:

Author: ARW Format:

18 June 2024 Date:

5:48pm Time: Lens:

FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Full frame Model:

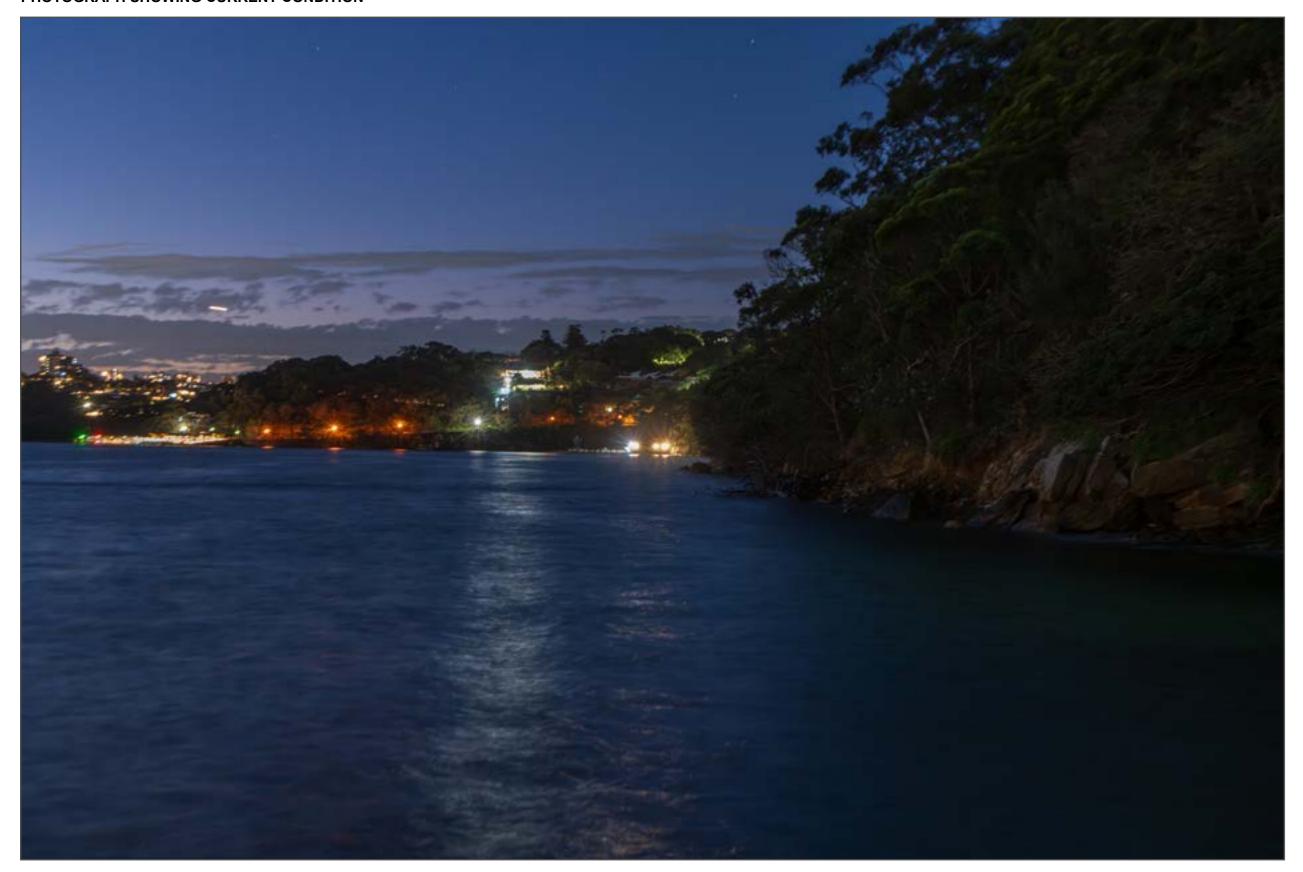
Sensor: 50mm Focal length:

#### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

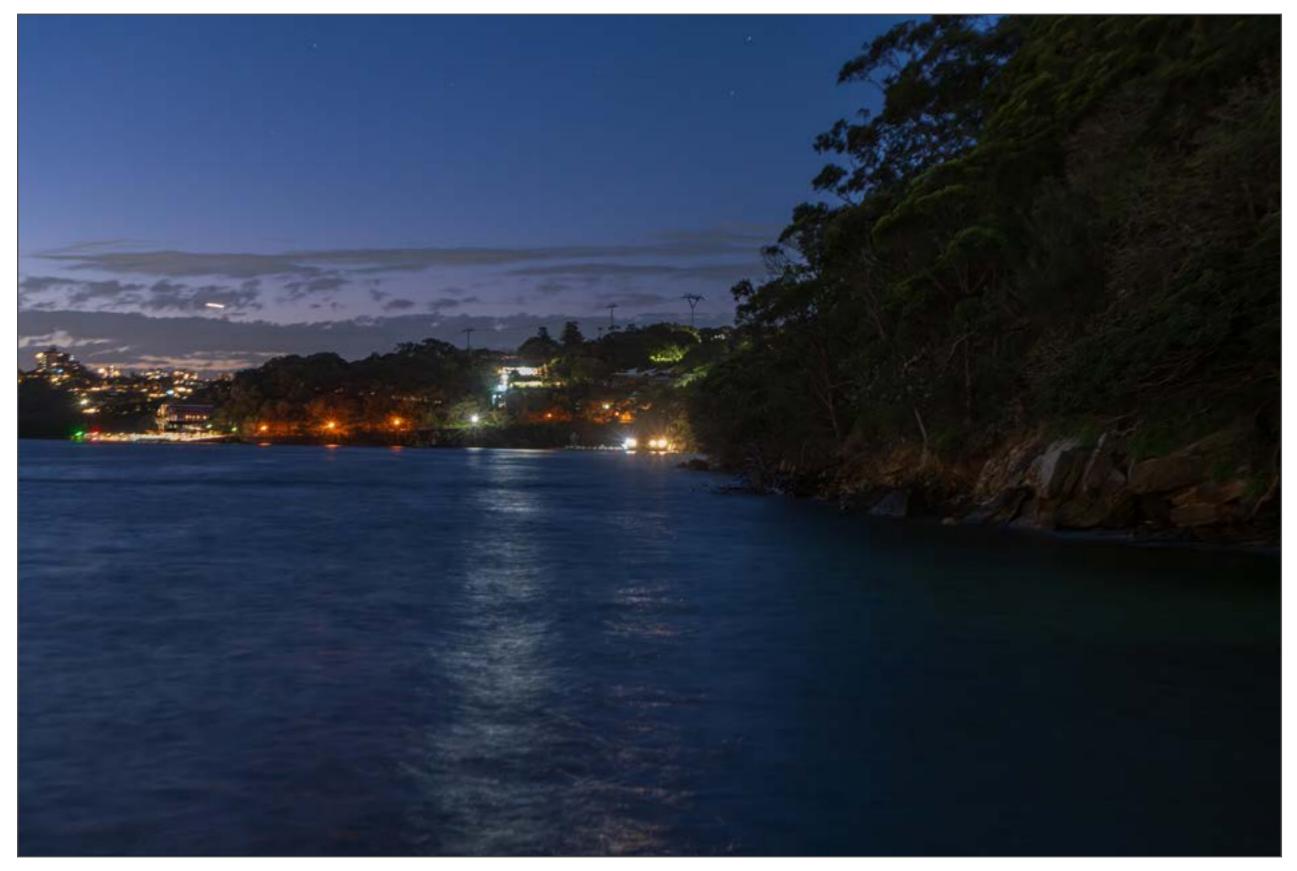




# **5.23B VIEWPOINT POSITION 23 - NIGHT**

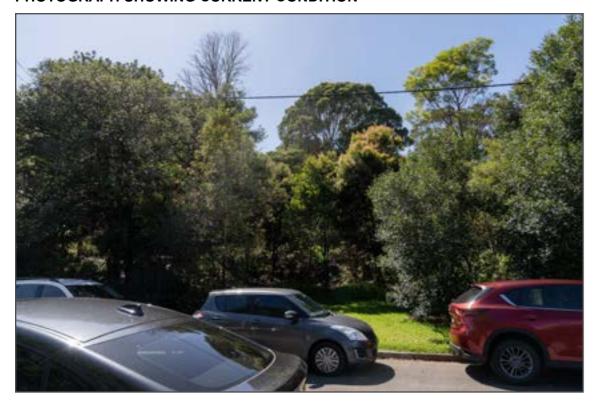


# **5.23B VIEWPOINT POSITION 23 - NIGHT**



# **5.24 VIEWPOINT POSITION 24**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 24\_24mm\_03 Virtual Ideas File Name:

Author: ARW Format:

Date:

Time:

18 January 2023 9:22am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

Sensor: 24mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.24 VIEWPOINT POSITION 24**



# **5.24 VIEWPOINT POSITION 24**



# **5.25 VIEWPOINT POSITION 25**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

TZ\_View 25\_24mm Virtual Ideas File Name: Author:

ARW Format:

Date:

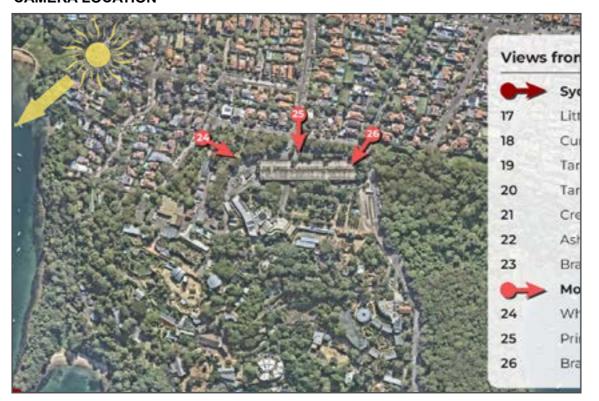
Time:

18 January 2023 9:30am FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Lens: Model:

Sensor: 24mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.25 VIEWPOINT POSITION 25**



# **5.25 VIEWPOINT POSITION 25**



# **5.26 VIEWPOINT POSITION 26**

### PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

File Name: TZ\_View 26\_24mm
Author: Virtual Ideas

Format: ARW

Date: 18 January 2023

Time: 9:35am

Lens: FE 24-70mm F2.8 GM Model: Sony ILCE-7RM4A

Sensor: Full frame Focal length: 24mm

#### SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT





# **5.26 VIEWPOINT POSITION 26**



# **5.26 VIEWPOINT POSITION 26**

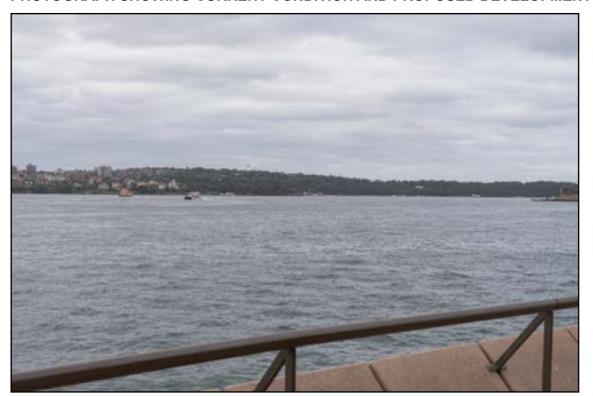


# **5.27A VIEWPOINT POSITION 27 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 27\_Pos 02\_50mm Virtual Ideas File Name:

Author:

ARW Format:

20 January 2023 Date:

Time:

2:29pm FE 24-70mm F2.8 GM Sony ILCE-7RM4A Full frame Model:

Sensor: 50mm Focal length:

#### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**





# **5.27A VIEWPOINT POSITION 27 - DAY**

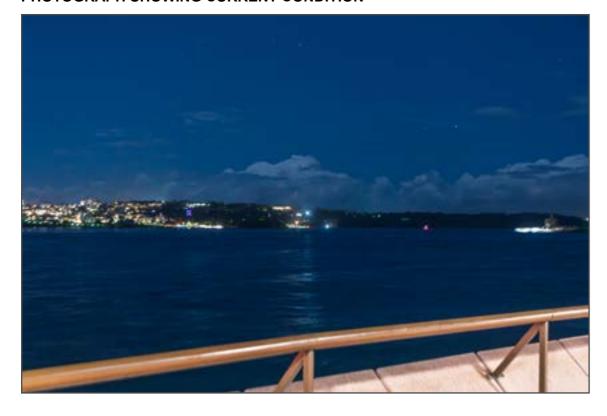


# **5.27A VIEWPOINT POSITION 27 - DAY**



# **5.27B VIEWPOINT POSITION 27 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



View 26\_Night\_50mm\_03 Virtual Ideas File Name:

Author:

ARW Format:

18 June 2024 Date: Time:

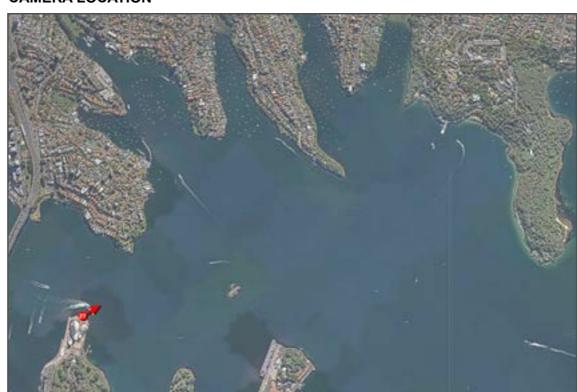
8:53pm

FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Full frame Model:

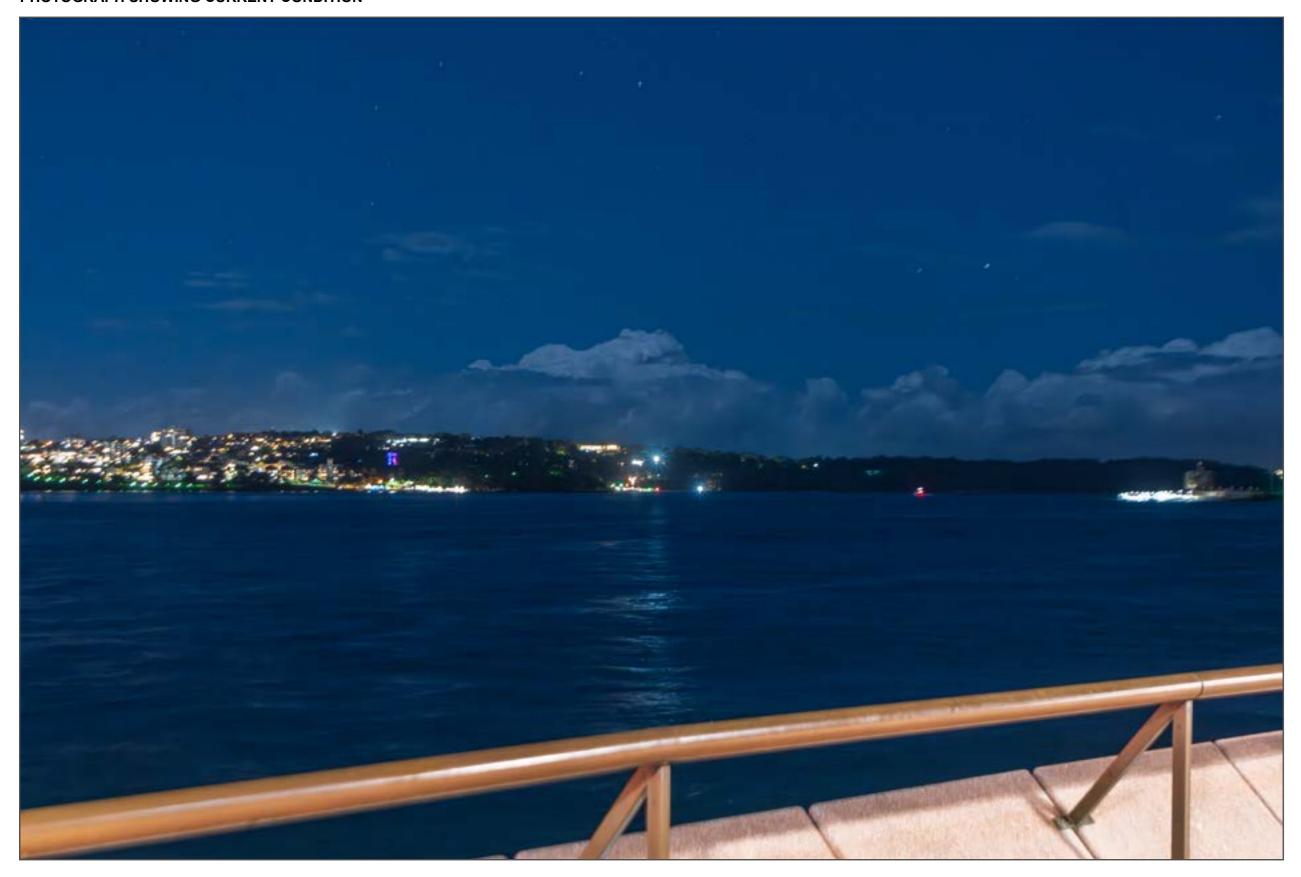
Sensor: 50mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**



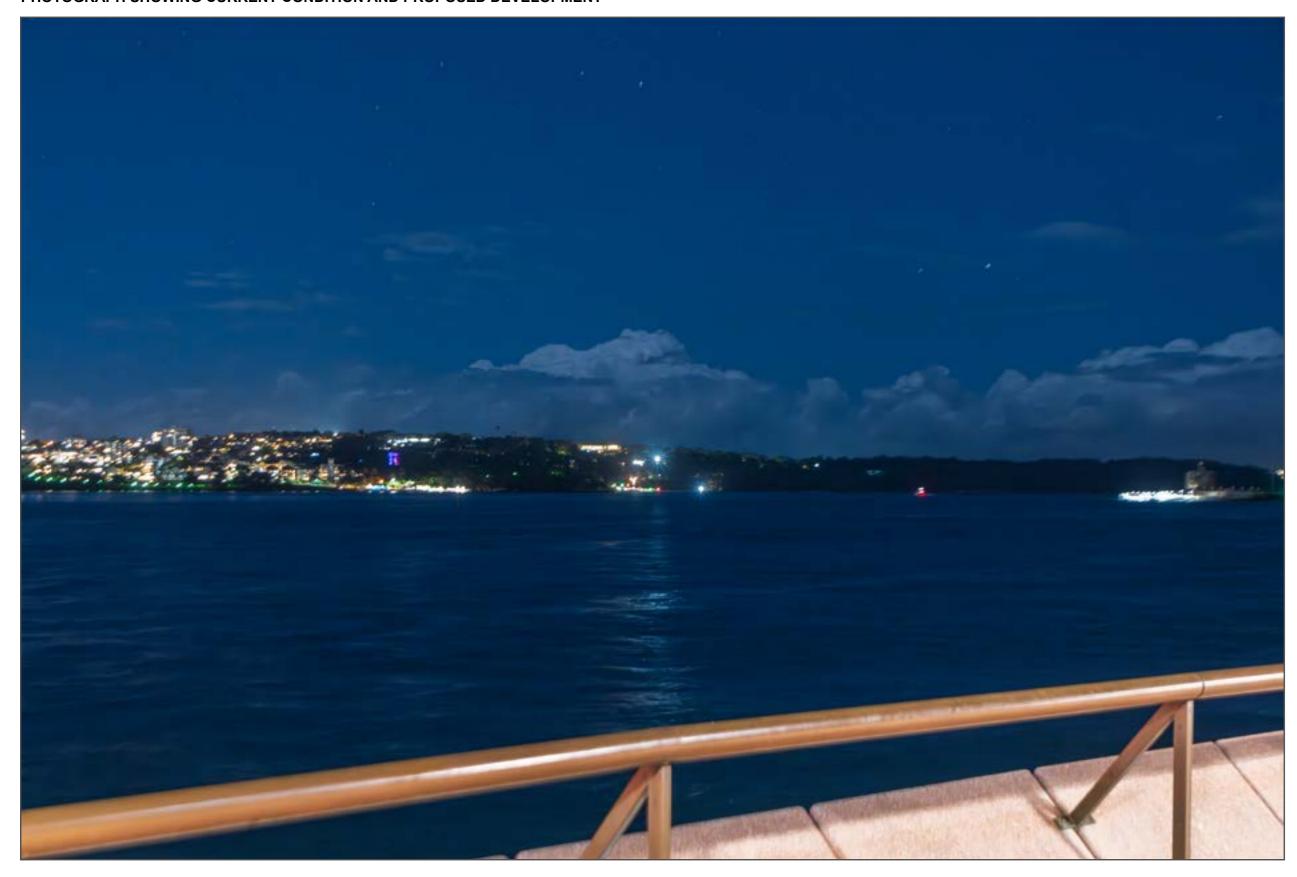


# **5.27B VIEWPOINT POSITION 27 - NIGHT**



# **5.27B VIEWPOINT POSITION 27 - NIGHT**

PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT

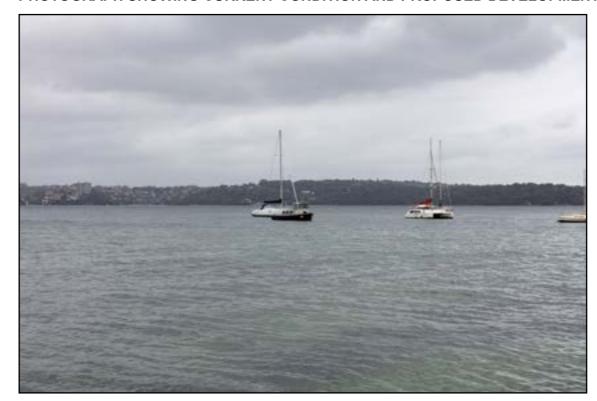


# **5.28A VIEWPOINT POSITION 28 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION



### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT PHOTOGRAPH DETAILS



TZ\_View 28\_50mm Virtual Ideas File Name: Author:

CR2 Format:

20 March 2023 Date: 10:43am Time:

EF24-105mm f/4L IS USM Canon EOS 5DS R

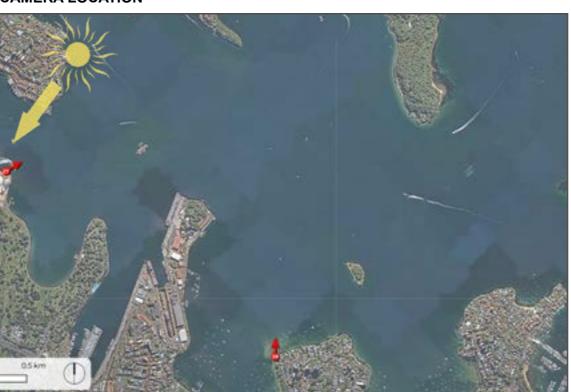
Model: Sensor: Full frame

Focal length: 50mm

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**



### **CAMERA LOCATION**



# **5.28A VIEWPOINT POSITION 28 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION



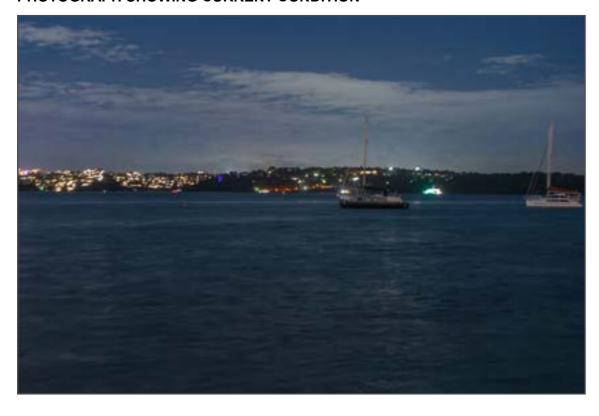
# **5.28A VIEWPOINT POSITION 28 - DAY**

### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT

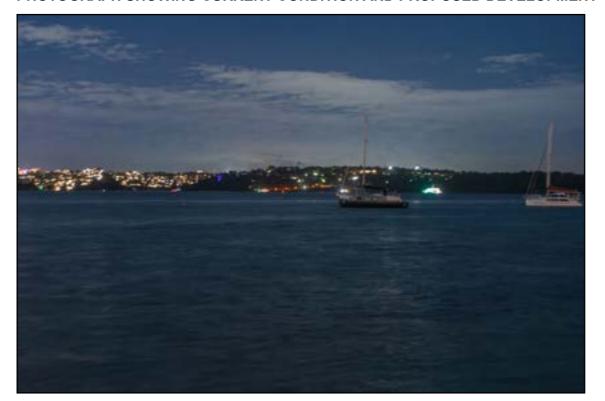


# **5.28B VIEWPOINT POSITION 28 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION



#### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### PHOTOGRAPH DETAILS

View 27\_Night\_50mm\_04 Virtual Ideas File Name:

Author: ARW Format:

18 June 2024 Date: 7:58pm Time:

FE 24-70mm F4 ZA OSS Sony ILCE-7RM4A Lens: Model:

Full frame Sensor: 50mm Focal length:

### **SURVEY POINTS USED FOR 3D CAMERA ALIGNMENT**

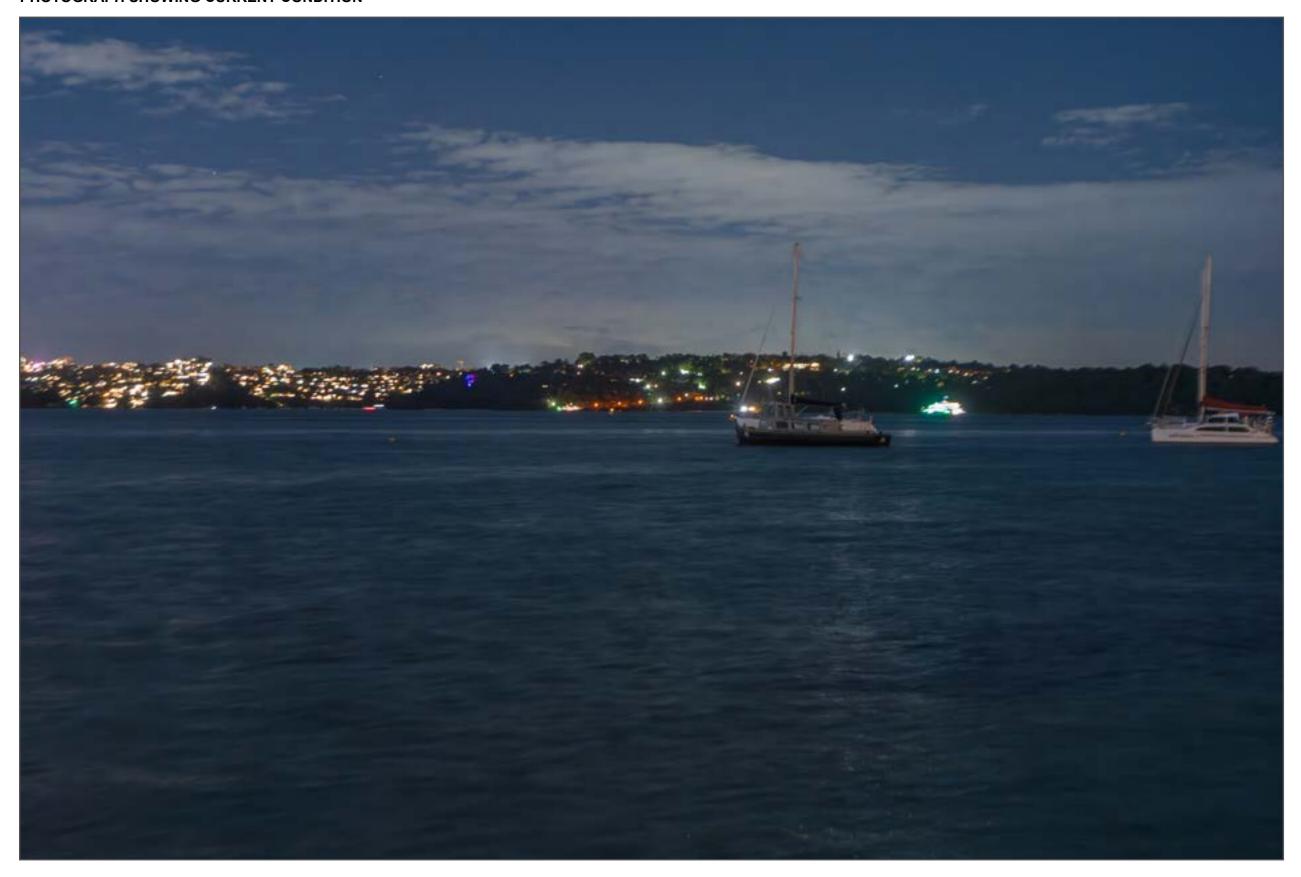


### **CAMERA LOCATION**



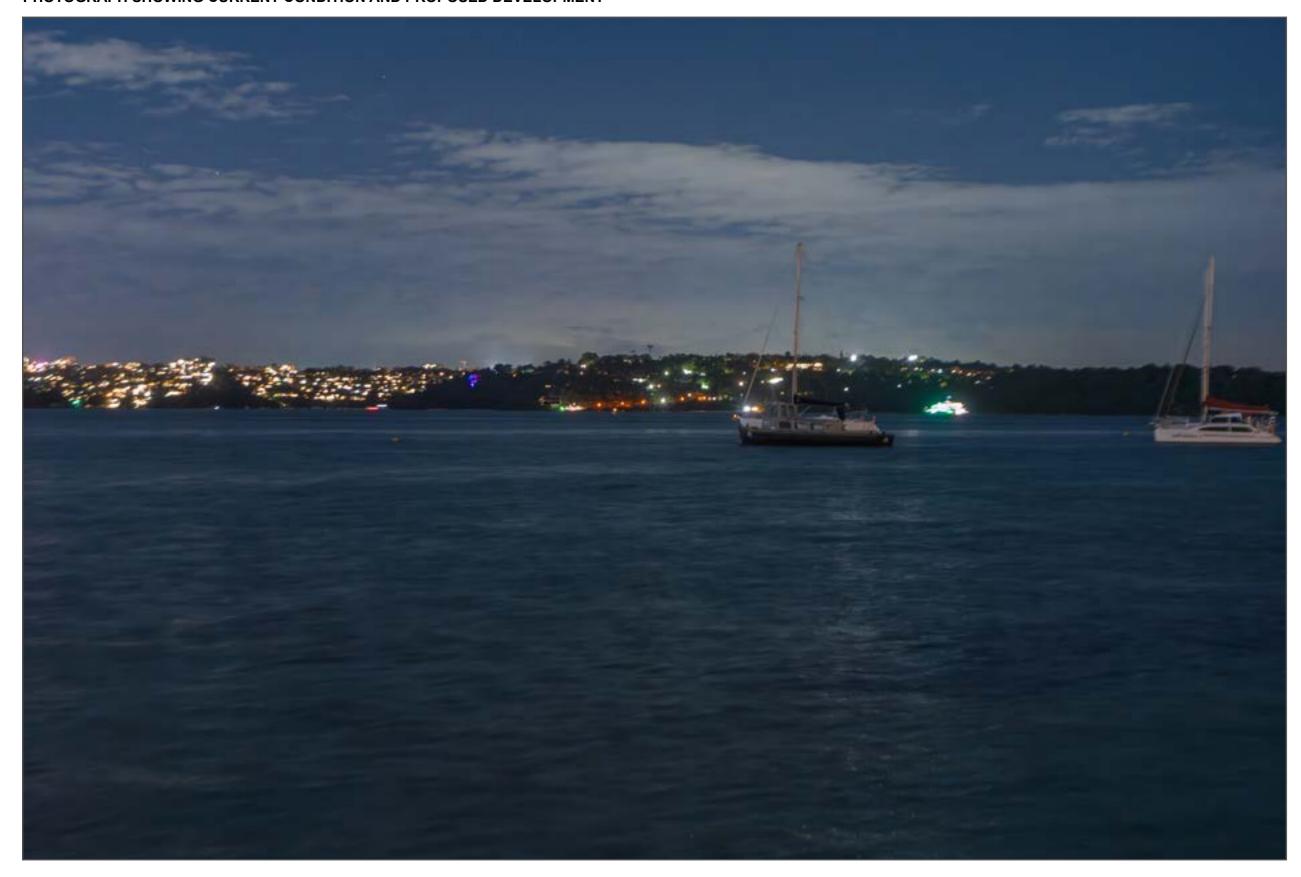
# **5.28B VIEWPOINT POSITION 28 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION



# **5.28B VIEWPOINT POSITION 28 - NIGHT**

### PHOTOGRAPH SHOWING CURRENT CONDITION AND PROPOSED DEVELOPMENT



### **6.1 3D SCENE DATA SOURCES**

### A.1 - 3D Model of the proposed Taronga Zoo Sky Safari - refer to Appendix A

File Name: 20210173-AB-SK001-FBX[N]

Author: Scott Carver

Format: FBX

Alignment: MGA 56 GDA2020

### A.2 - Site Survey - refer to Appendix B for details

File Name: 21877Photolocation 1
Author: CMS Surveyors
Format: Autocad DWG
Alignment: MGA 56 GDA2020

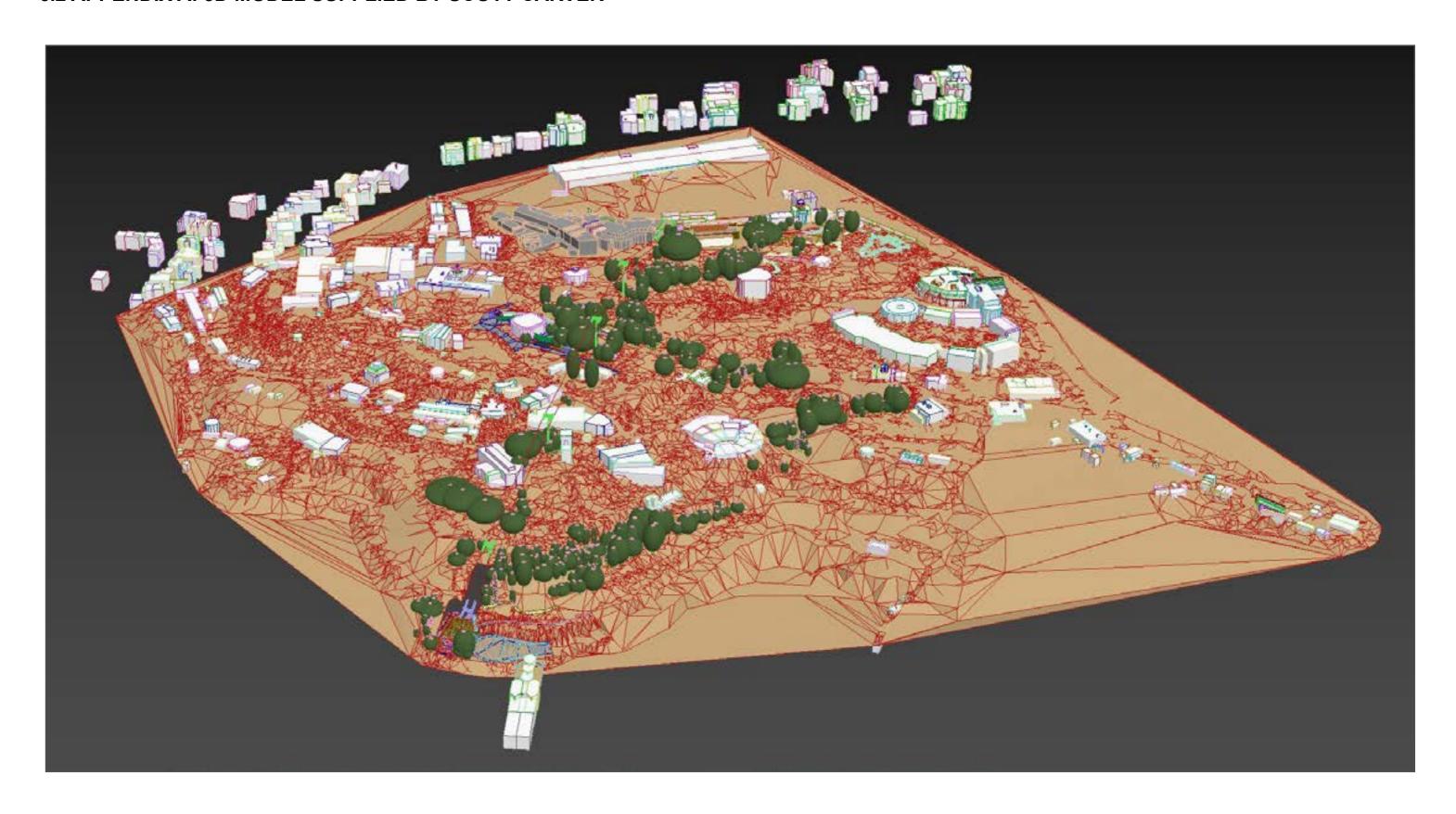
### A.3 - Existing Site Survey - refer to Appendix C for details

File Name: 33575-04[A]

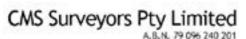
Author: Frank M Mason and Co. Pty Ltd

Format: Autocad DWG
Alignment: MGA 56 GDA2020

# 6.2 APPENDIX A: 3D MODEL SUPPLIED BY SCOTT CARVER



### 6.3 APPENDIX B: SITE SURVEY SUPPLIED BY CMS





LAND SURVEYING, PLANNING & DEVELOPMENT CONSULTANTS

Page 1 of 5

Date: 25-01-2023

Our Ref: 22126 Photo Locations

Studio 71/61 Marlborough Street Surry Hills NSW 2010

Dear Rick Mansfield.

#### RE: PHOTO LOCATIONS - Taronga Zoo

As requested, we have attended site and measured the Co-ordinates and Elevation of the photo locations for

Co-ordinates are MGA 56 (GDA 2020) and elevation to Australian Height datum (AHD).

Measurements were taken using theodolite measurement and GNSS measurements by CORSNET.

DWG of locations has also been supplied.

Point Number	Easting	Northing	Reduced Level (RL)	Photo Point
1	337479.034	6253943.558	71.23	PHOTO 1
2	337456.482	6253958.605	71.82	PHOTO 2
3	337461.336	6253919.366	76.10	РНОТО3
4	337214.392	6253866.241	61.77	PHOTO 4
5	337348.165	6253826.919	57.97	PHOTO 5
6	337480.897	6253775.277	62.31	PHOTO 6
7	337510.451	6253801.312	70.53	PHOTO 7
8	337538.782	6253759.948	71.07	PHOTO 8
9	337450.112	6253749.516	48.76	РНОТО 9
10	337482.008	6253666.202	46.44	PHOTO 10
11	337363.504	6253667.670	31.04	PHOTO 11
12	337341.605	6253674.289	33.29	PHOTO 12
13	337338.473	6253617.546	15.47	PHOTO 13
14	337241.465	6253568.327	9.05	PHOTO 14
15	337141.060	6253550.734	4.72	PHOTO 15
16	337112.042	6253731.327	36.76	PHOTO 16
17	337105.896	6253751.497	36.67	PHOTO 17
18	336891.607	6253651.377	8.31	PHOTO 18
19	336588.269	6253784.603	31.49	PHOTO 19
20	336512.601	6253226.016	7.47	PHOTO 20



HEAD OFFICE 2/99A South Creek Rd, DEE WHY NSW 2099 PO Box 463, DEE WHY NSW 2009 Ph: 02 9971 4802 Fax: 02 9971 4822 Email: infetermourseverscom.eu

INCORPORATING (Mona Yale)

COOTAMUNDRA A.C.GLBERT B.Co. Incorporating PENCELLY B. GRAY
(Roseville) 90 Wallendoon St, COOTANUNCBA NSW 1590
MBS GREEN B.ASSOCIATES Ph; 02 6942 3395 Fac: 02 6942 4046 Email: coota semourevers.com.au



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Point Number	Easting	Northing	Reduced Level (RL)	Photo Point
21	336373.625	6253372.516	2.58	PHOTO 21
22	337558.398	6253387.357	2.55	PHOTO 22
23	337659.101	6252737.235	1.49	PHOTO 23
24	337186.512	6254079.685	55.47	PHOTO 24
25	337380.584	6254119.021	72.21	PHOTO 25
26	337506.959	6254105.702	78.24	PHOTO 26
27	334921.387	6252361.942	3.52	PHOTO 27
28	336752.664	6251093.331	1.52	PHOTO 28
29	334921.293	6252359.186	3.52	PHOTO 27-2
50	337043.780	6253849.157	42.62	Roof
51	337043.400	6253785.698	36.49	Pergola
100	337485.096	6253773.870	66.78	Roof
101	337485.171	6253775.380	66.70	Roof
102	337484.524	6253784.722	67.32	Roof
103	337481.190	6253796.222	66.49	Roof
104	337485.759	6253797.153	66.51	Roof
105	337401.785	6253794.218	85.90	BEAM
106	337411.977	6253734.780	56.02	Roof
107	337404.489	6253727.712	52.96	Top of gutter
108	337426.521	6253740.986	58.76	Post
109	337493.211	6253721.626	63.88	PaRailpet
110	337507.632	6253712.296	63.88	PaRailpet
111	337513.542	6253716.655	67.66	Roof
112	337516.410	6253716.107	67.66	Roof
113	337469.523	6253772.297	62.99	Top of fence
114	337471.281	6253769.546	63.10	Top of fence
115	337471.734	6253768.090	63.02	Top of fence
116	337472.892	6253764.891	62.88	Top of fence
117	337480.246	6253774.724	63.70	Top of fence
118	337456.766	6253911.419	76.23	Post
119	337455,814	6253911.672	74.75	Post
120	337437.366	6253914.055	75.53	Post
121	337436.029	6253914.779	75.09	Post
122	337432.111	6253920.314	72.53	Top of wall
123	337461.381	6253945.216	75.46	Post
124	337477.226	6253926.882	80.98	Post
125	337463.701	6253926.185	90.07	Post
126	337450.706	6253930.079	81.00	Post
127	337470.603	6253928.498	81.26	PaRailpet
128	337466.902	6253927.440	83.62	PaRailpet
129	337462.608	6253929.326	83.61	PaRailpet
130	337457.666	6253930.054	81.27	PaRailpet



HEAD OFFICE 2/99A South Creek Rd, DEE WHY NSW 2009 PO Box 463, DEE WHY NSW 2099 Ph: 02 9971 4802 Fax: 02 9971 4022 Email: infecemeur; more com. su

**INCORPORATING** A.C.GILBERT B. Co. (Roseville) MBS GREEN & ASSOCIATES (Mone Vale)

COCTAMUNDRA Incorporating PENGELLY & GRAY 90 Wallendoon St, COOTAMUNDRA NSW 1990 Ph; 02:6942 3395 Fax: 02:6942:4046 Email: coota@cressurveyors.com.au



# 6.3 APPENDIX B: SITE SURVEY SUPPLIED BY CMS

Page 3

Point Number	Easting	Northing	Reduced Level (RL)	Photo Point
131	337415.596	6253747.272	58.70	Post
132	337359.987	6253811.398	60,50	Post
133	337359.123	6253807.495	58.52	Pergola
134	337358.994	6253801.572	54.76	Post
135	337334.419	6253792.537	56.75	Post
136	337175.665	6253814.291	54.28	Roof
137	337202.460	6253851.123	60.09	Pergola
138	337202.022	6253852.631	60.10	Pergola
139	337167.717	6253823.411	54.00	Post
140	337176.145	6253853.575	59.31	Post
141	337460.230	6253727.310	51.57	Top of wall
142	337457.976	6253729.335	55.07	Roof ridge
143	337450.088	6253729.412	60.01	Roof ridge
144	337447.636	6253734.999	54.29	Roof ridge
145	337445.465	6253735.752	55.06	Roof ridge
146	337464.372	6253648,709	43.10	Post
147	337457.060	6253651.753	42.92	Post
148	337446.130	6253656.594	42.81	Post
149	337443.622	6253637.197	42.65	Top of gutter
150	337434.401	6253625.674	44.86	Post
151	337413.183	6253644.210	44.87	Post
154	337343.706	6253644.429	22.16	Post
155	337329.208	6253653,635	29.65	Roof
156	337258.927	6253649.931	37.99	Roof
157	337260.153	6253646.933	38.15	Roof
162	337343.028	6253674.563	34.50	Top of fence
163	337365.452	6253663.378	31.53	Post
164	337366.107	6253661.881	31.31	Post
165	337361.250	6253654.667	28.64	Post
166	337359.645	6253659.270	28.76	Sign
167	337362.553	6253667,692	30.29	Underside of beam
168	337264.936	6253690.433	49.47	Roof ridge
169	337268,471	6253661.992	41.55	Roof
170	337336,476	6253707.500	48.05	Roof
171	337324.890	6253712.068	47.90	Roof
172	337313.119	6253711.305	48.08	Roof
173	337250.382	6253722.066	55.04	Roof ridge
174	337242.358	6253732.938	54.96	Roof ridge
175	337238.905	6253738.571	52.92	Roof ridge
176	337203.602	6253750.662	52.41	Roof ridge
177	336649.371	6253896.204	74.74	Parapet
178	336643.805	6253874.381	74.74	Parapet



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BYCORPORATING A.C.GILBERT B. Co. (Roseville) (Wors Vale):

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Point Number	Easting	Northing	Reduced Level (RL)	Photo Point
179	336635.733	6253889.288	78.71	Parapet
180	336638.389	6253891.235	78.70	Parapet
181	336561.375	6253740.291	30.14	Balcony
182	336598.059	6253767.784	29.76	Roof ridge
183	336597.708	6253770.078	31.14	Roof ridge
184	336602.567	6253775.370	29.38	Roof ridge
185	336606.925	6253780.818	28.84	Roof ridge
186	336610.524	6253787.498	42.69	Top of gutter
187	337099.313	6253738.615	37.67	Post
188	337093.173	6253743.143	36.42	Post
189	337091.741	6253746.011	33.27	Post
190	337094.159	6253748.944	33.85	Post
191	337088.080	6253746.363	35.21	Tree
192	337106.752	6253727.601	37.45	Fence
193	337106.872	6253727,519	37.53	Fence
194	337109.453	6253725.941	37.53	Fence
195	337111.221	6253724.881	37.52	Fence
196	337193.828	6254074.130	55.60	Top of kerb
197	337212.946	6254068.647	67.18	Tree
198	337199.606	6254077.276	61.66	Tree
199	337202.277	6254072.167	58.37	Tree
200	337203.158	6254070.559	57.84	Rail
201	337194.742	6254071,149	60.36	Tree
202	337213.204	6254083.200	59.01	Tree
203	337377.738	6254111.332	74.96	Sign
204	337345.574	6254051.068	83.73	Post
205	337338.007	6254050.990	83.74	Post
206	337370.037	6254105.406	75.10	Post
207	337356.033	6254074.713	76.27	Roof
208	337498.132	6254085.927	86.59	Power pole
209	337482.639	6254069.493	80.65	Post
211	337477.299	6254068.151	83.59	Sign
212	337474.766	6254076.141	80.07	Sign
213	337478.137	6254085.583	80.00	Post
215	337338.014	6253632.625	21.75	Top of wall
216	337342.608	6253633.699	22.98	Top of wall
217	337349.215	6253631.937	22.98	Top of wall
218	337352.685	6253628.754	21.80	Top of wall
219	337346.676	6253635.666	29.93	Post
220	337332.581	6253635.681	26.38	Post
221	337259.926	6253579.082	12.56	Post
222	337256.750	6253577.006	13.42	Post



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# 6.3 APPENDIX B: SITE SURVEY SUPPLIED BY CMS

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Point Number	Easting	Northing	Reduced Level (RL)	Photo Point
223	337244.950	6253569.427	10.61	Post
224	337333.929	6253648.865	29.21	Roof
225	337663.634	6253347.351	34.58	Roof ridge
227	337147.128	6253539.937	7.03	Roof
228	337142.528	6253538.029	8.13	Roof
230	337128.442	6253526.578	5.97	Roof
231	337133.076	6253528.528	7.16	Roof
232	337134.822	6253528.687	5.51	Roof
233	337136.331	6253532.291	5.49	Roof
234	337137.705	6253535.677	6.28	Roof
235	337139.672	6253531.150	7.35	Roof
236	337121.747	6253516.523	2.94	Pier
237	337121.239	6253517.133	2.69	Top of wall
238	337112.440	6253568.527	17.07	Post
239	337116,519	6253574.284	17.08	Post
240	337117.566	6253578.323	17.68	Parapet
241	337132.109	6253578,896	12.38	Sign
242	337135.632	6253577.538	11.69	Sign
243	337103.714	6253566.163	17.00	Post
244	337100.214	6253574.450	17.01	Post
245	337105.070	6253573.213	18.15	Roof
246	337108.138	6253577.574	18.25	Roof
248	337074.183	6253593.551	3.96	Top of fence
249	337069.854	6253601.329	6.03	Underside of beam
250	337051.968	6253637,077	1.16	Rock
251	337356.240	6253502.657	2.86	Pier
252	337356.995	6253507.189	8.40	Post
253	337356.224	6253506.178	8.92	Post
254	337366.998	6253516.381	2.86	Pier
255	337372.960	6253524.963	2.85	Pier
256	337372.518	6253528,355	5.12	Roof
257	336607.683	6253786.803	36.81	Top of fence
258	337108.224	6253477.233	3.16	Pier
259	337116.414	6253497.935	3.20	Pier
263	337122.542	6253715.226	37.08	Sign
264	334925.237	6252361.305	4.33	Top of fence
2001	334333.637	6250765.381		Centrepoint tower

Note: R.L. shown on the report for photo locations are ground levels. Camera height should be added to the supplied RL of each corresponding photo location.

Yours faithfully, CMS Surveyors Pty Limited Damon Roach



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BYCORPORATING A.C.GLISERT & Co. (Roseville) (Mone Valle)

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### 6.4 APPENDIX C: EXISTING SITE SURVEY SUPPLIED BY FRANK M MASON AND CO. PTY LTD

