



**VERIFIED PHOTOMONTAGES**

**Of the Proposed Development at  
Model Farm Road, Cork**

**PREPARED FOR:  
O'Mahony Pike Architecture**

**DATE: May 2022**

**PREPARED BY:  
G-Net 3D  
NSC Campus, Mahon, Cork  
Tel: 021-2307043,  
[info@gnet3d.com](mailto:info@gnet3d.com)**

## Photomontage Methodology

### Photography

The photos for all the views were taken using Canon EOS REBEL T5i camera. Leica GS08plus Smart Antenna was used to accurately record the viewpoint coordinates and height levels. Viewpoint locations are indicated in table and viewpoint map on the right.

### Modelling

Preparation of an accurate 3D model of the proposed development including landscape and infrastructure.

### Setup

The following information is used to accurately position the model of the proposed development into the photographs:

- Site survey,
- Photographs,
- Verified viewpoint coordinates and height levels are accurately marked on the location OSi map.

To match the 3D camera view with the photograph we take the following steps:

The camera height is taken from information gathered on the levels from where the photos are taken (table below). The height levels of the proposed development are outlined on the site. Focal length is based on the photograph EXIF info.

This data is imported into our 3D software and the 3D camera is matched with the selected photographs. To match the 3D camera accurately we use all the above data, and the reference 3D models. The reference 3D models are existing structures i.e., buildings, roads, lamps, etc which are visible on the photographs. These items are modelled based on the survey information. After all the above conditions are fulfilled and we are satisfied that the camera matches correctly, we proceed to the next step.

### Rendering

We apply the materials and textures prior to rendering the photomontage images. Light settings are adjusted to match the brightness of the photographs and sun is positioned according to the date and time the photo was taken.

### Post processing

This process means incorporating a 3D image of the proposed development into the photograph to achieve the result.

### Viewpoint info

View No	Easting	Northing	Orthometric Height (m)	Camera focal length	Date of photography	Time (24h)
View 1	563408.396	570892.960	18.925	18mm	13/04/2021	13.21
View 2	563332.891	570903.670	19.791	10mm	21/02/2021	11:39
View3	563089.184	570917.762	20.121	18mm	21/02/2021	11:58
View 4	563218.027	570753.628	19.646	18mm	21/02/2021	11:25



View 1. Existing



View 1. Proposed



View 2. Existing



View 2. Proposed



View 3. Existing



View 3. Proposed



View 4. Existing



View 4. Proposed

