Verified Photomontages of

Proposed Cherrywood Post Primary School

October, 2022

Photomontage Methodology

Photography

The photos for all the views were taken using Sony a7RIII. Geomax Zenith 60 Antenna was used to accurately record the viewpoint coordinates and height levels. Viewpoint locations are indicated in the viewpoint map and at the table to the right.

Modelling

Preparation of an accurate 3D model of the proposed post primary school development using drawings supplied by Reddy Architecture + Urbanism.

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

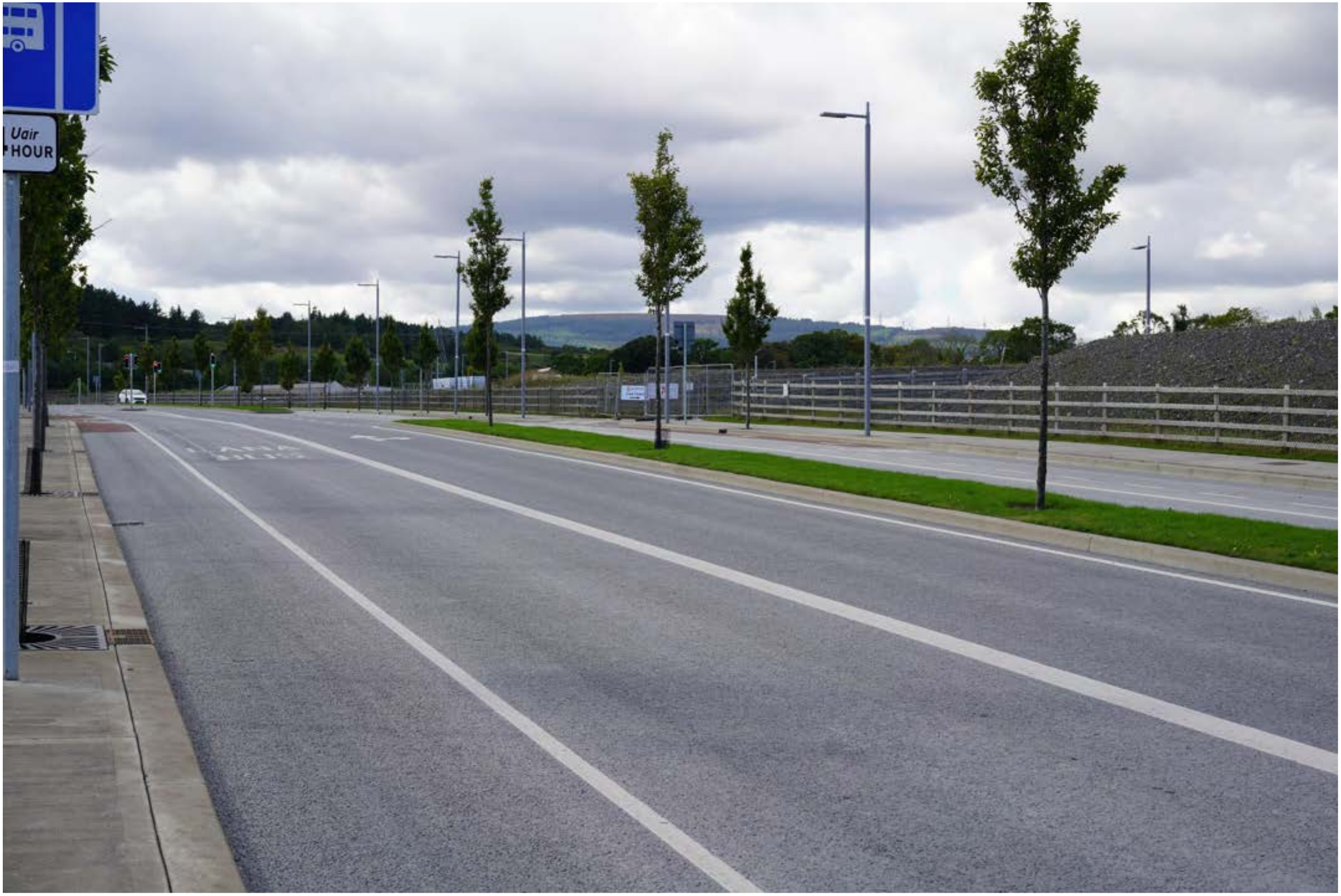
We apply the materials and textures prior to rendering the photomontage images. Light settings are adjusted to match the brightness of the photographs and sun is positioned according to the date and time the photo was taken.

Post processing

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

VIEW No	Easting	Northing	Orthometric Height (m)	Camera Focal Length	Date of photography	Time of photography
VIEW 1	723419.000	723146.343	59.878	50mm	16/09/2022	13:42
VIEW 2	723226.101	723025.915	66.409	24mm	16/09/2022	14:51
VIEW 3	723130.706	723126.930	66.511	24mm	16/09/2022	13:57
VIEW 4	723294.919	723397.596	73.647	50mm	16/09/2022	12:43
VIEW 5	723276.345	723245.120	71.181	24mm	16/09/2022	12:57
VIEW 6	723275.631	723237.637	70.883	24mm	16/09/2022	13:02
VIEW 7	723325.193	723251.924	69.730	24mm	16/09/2022	13:13
VIEW 8	723353.467	723139.081	62.587	24mm	16/09/2022	13:19
VIEW 9	723555.836	723213.621	55.687	50mm	16/09/2022	13:32
VIEW 10	722950.566	722949.968	82.042	50mm	16/09/2022	14:06

View 1. Existing.



View 1. Proposed.

View 2. Existing.

View 2. Proposed.

View 3. Existing.

View 3. Proposed.

View 4. Existing.

View 4. Proposed.

View 5. Existing.

View 5. Proposed.

View 6. Existing.

View 6. Proposed.

View 7. Existing.

View 7. Existing.

View 8. Existing.

View 8. Proposed.

View 9. Existing.

View 9. Proposed.

View 10. Existing.

View 10. Proposed.