



VIEWPOINT 07 | 325 RANGATIRA ROAD - EXISTING

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 2 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 41.0 deg
Optimal viewing distance when printed at A3 approximately: 470mm

VISUAL IMPACT PHOTO SIMULATIONS



Cylindrically stitched panorama comprised of 2 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 41.0 deg
Optimal viewing distance when printed at A3 approximately: 470mm

VIEWPOINT 07 | 325 RANGATIRA ROAD - PHOTO SIMULATION

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 08 | 364 RANGATIRA ROAD - EXISTING

Cylindrically stitched panorama comprised of 5 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 64.9 deg
Optimal viewing distance when printed at A3 approximately: 280mm

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 08 | 364 RANGATIRA ROAD - PHOTO SIMULATION

Cylindrically stitched panorama comprised of 5 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 64.9 deg
Optimal viewing distance when printed at A3 approximately: 280mm

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 09 | 366 RANGATIRA ROAD - EXISTING

Cylindrically stitched panorama comprised of 5 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 70.4 deg
Optimal viewing distance when printed at A3 approximately: 260mm

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 09 | 366 RANGATIRA ROAD - PHOTO SIMULATION

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 5 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 70.4 deg
Optimal viewing distance when printed at A3 approximately: 260mm

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 10 | 96 BEACH HAVEN ROAD - EXISTING

Cylindrically stitched panorama comprised of 4 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 60.0 deg
Optimal viewing distance when printed at A3 approximately: 310mm

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 10 | 96 BEACH HAVEN ROAD - PHOTO SIMULATION

Cylindrically stitched panorama comprised of 4 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 60.0 deg
Optimal viewing distance when printed at A3 approximately: 310mm

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 11 | 85 BEACH HAVEN ROAD - EXISTING

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 4 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 52.2 deg
Optimal viewing distance when printed at A3 approximately: 360mm



VIEWPOINT 11 | 85 BEACH HAVEN ROAD - PHOTO SIMULATION

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 4 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 52.2 deg
Optimal viewing distance when printed at A3 approximately: 360mm

VISUAL IMPACT PHOTO SIMULATIONS



VIEWPOINT 12 | 34 CRESTA AVENUE - EXISTING

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 3 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 57.5 deg
Optimal viewing distance when printed at A3 approximately: 330mm



VIEWPOINT 12 | 34 CRESTA AVENUE - PHOTO SIMULATION

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 3 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 57.5 deg
Optimal viewing distance when printed at A3 approximately: 330mm



VIEWPOINT 13 | 63 BEACH HAVEN ROAD - EXISTING

96 BEACH HAVEN ROAD, BEACH HAVEN

Cylindrically stitched panorama comprised of 4 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 47.9 deg
Optimal viewing distance when printed at A3 approximately: 400mm



VIEWPOINT 13 | 63 BEACH HAVEN ROAD - PHOTO SIMULATION

Cylindrically stitched panorama comprised of 4 individual photos
Taken with Nikon D750 50mm lens
Total vertical field of view: 39.6 deg
Total horizontal field of view: 47.9 deg
Optimal viewing distance when printed at A3 approximately: 400mm

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS

18th July 2022

PROJECT: 96 BEACH HAVEN ROAD, BEACH HAVEN - RESIDENTIAL DEVELOPMENT

The following describes the methodology used in creating the photo montage visual material for the development at 96 Beach Haven Road, Beach Haven carried out by Cadabra Applied Computer Graphics International Ltd.

3D digital model preparation

Cadabra received project design information including 3d digital architectural model from Brewer Davidson Architects.

Data from Auckland Council GIS was downloaded including aerial maps, site data and contours to build a digital model of the existing site. The 3D architectural model was then imported and double checked for location and height accuracy from data provided by the architects.

A physically accurate sun system was applied to the model to ensure lighting conditions matched the photos taken. Lat/Long coordinates, time of day, date and GMT time zones were included to create accurate visual sunlight.

Site photography and data collection

The camera used was a Nikon 750D Full frame DSLR with a 50mm fixed lens on a tripod at a predetermined vertical height of 1.7m above ground level. Once photos were taken the spot under the tripod was marked by spray paint and labelled for survey coordinates to be calculated by a registered surveyor.

Survey data was collected by Civix Ltd and sent to Cadabra to accurately position CG cameras within the digital model.

3D model alignment and rendering

Digital cameras were then set up within the 3D model to match points located by surveyor and photos used as image planes behind the digital model. Cameras were rotated and positioned into place using all the data collected to ensure proper alignment. Once satisfied all views were rendered out at the same resolution as photos and montaged together within Photoshop. Any foreground elements were clipped and placed in front of digital model for added realism to final presentation.

Once individual photos were montaged the views were then stitched together in Photoshop using a cylindrical panorama technique. These are developed from the individual photo montages after rendering as performing the panoramic stitching beforehand creates distortion which detracts from the accuracy of the final simulation.

METHODOLOGY

96 BEACH HAVEN ROAD, BEACH HAVEN

VISUAL IMPACT PHOTO SIMULATIONS