



Resource Consent S53 & Visual Simulations (Solar Farms) Package for

# Unity Development

Ashbourne Development ,  
Matamata Waikato

Drawing Number:	Drawing Description:	Drawing Issue Date:	Drawing Number:	Drawing Description:	Drawing Issue Date:		
2148/ 01	-	Visual Simulation Methodology	17/11/25	2148/ 18	-	Northern Solar Farm - Viewpoint 03 - Existing	17/11/25
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2148/ 03	-	Project Scope Plan	17/11/25	2148/ 20	-	Northern Solar Farm - Viewpoint 03 - 5 Years Planting	17/11/25
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2148/ 05	-	Northern Solar Farm - Detailed Planting Plan	17/11/25	2148/ 22	-	Southern Solar Farm - Overall Planting Plan	17/11/25
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2148/ 08	-	Northern Solar Farm - Viewpoint Locations	17/11/25	2148/ 25	-	Plant Palette and Details	17/11/25
2148/ 09	-	Northern Solar Farm - Viewpoint 01 - Existing	17/11/25	2148/ 26	-	Southern Solar Farm - Viewpoint Locations	17/11/25
2148/ 10	-	Northern Solar Farm - Viewpoint 01 -Time of Planting	17/11/25	2148/ 27	-	Southern Solar Farm - Viewpoint 01 - Existing	17/11/25
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2148/ 12	-	Northern Solar Farm - Viewpoint 01 - 15 Years Planting	17/11/25	2148/ 29	-	Southern Solar Farm - Viewpoint 01 - 5 Years	17/11/25
2148/ 13	-	Northern Solar Farm - Viewpoint 01 - Existing	17/11/25	2148/ 30	-	Southern Solar Farm - Viewpoint 01 - 15 Years	17/11/25
2148/ 14	-	Northern Solar Farm - Viewpoint 02 - Time of Planting	17/11/25	2148/ 31	-	Southern Solar Farm - Viewpoint 02 - Existing	17/11/25
2148/ 15	-	Northern Solar Farm - Viewpoint 02 - 5 Years	17/11/25	2148/ 32	-	Southern Solar Farm - Viewpoint 02 -Time of Planting	17/11/25
2148/ 16	-	Northern Solar Farm - Viewpoint 02 - 5 Years 02	17/11/25	2148/ 33	-	Southern Solar Farm - Viewpoint 02 - 5 Years	17/11/25
2148/ 17	-	Northern Solar Farm - Viewpoint 02 - 15 Years	17/11/25	2148/ 34	-	Southern Solar Farm - Viewpoint 02 - 15 Years	17/11/25

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### Methodology for Photo Simulations

The photomontage images have been produced by Greenwood Associates Landscape Architects and are based on the following factors:

- The camera field of view with a 55mm lens for all Viewpoints, Northern Solar Farm Viewpoints 01– 03 and Southern Solar Farm Viewpoints 01 – 02.
- The camera position in a 3D space located at the following positions (X,Y Mt Eden 2000) for the respective viewpoints:
  - Northern Solar Farm, Viewpoint 01: 487336.93, 695457.19
  - Northern Solar Farm, Viewpoint 02: 460704.44, 694549.64
  - Northern Solar Farm, Viewpoint 03: 487914.71, 694549.64
  - Southern Solar Farm, Viewpoint 01: 487904.68, 694633.09
  - Southern Solar Farm, Viewpoint 02: 487914.71, 694549.64

All coordinates were obtained on site and inputted as datum reference points within Archicad to determine each camera location.

The camera used to obtain images utilised for these simulations was a Nikon D5100 with a fixed lens focal length of 55mm.

The camera position was set as per the obtained coordinates listed above (refer drawing 2148/09 'Northern Solar Farm Viewpoint Locations' and 2148/26 'Southern Solar Farm Viewpoint Locations'). The position and approximate camera angle were then translated into a 3D scene within the modelling software.

The scene was cross-referenced by using ArchiCad to export an accurate scaled 3D model. To place the model in context, a map of site is placed within the 3D software to allow an accurate positioning of the building models. To further examine accuracy of proposed buildings location, multiple reference points (each viewpoint) was utilised in support of camera alignment.

Individual renders of the 3D model were then created from the relevant camera position and angle. The camera was positioned 68m above sea level for the Northern Solar Farm Viewpoints 01 – 03 and for the Southern Solar Farm, Viewpoint 01 69.25 m and Viewpoint 02 68.75m all include the eye level height of the photographer. The 3D renders were then overlaid onto the original images using Photoshop with any part of the render not required then deleted.

Note: All visualisations are to be viewed at 550mm from the eye when printed on A3 standard paper.

All coordinates given in this document are Mt Eden 2000.

All building solar farm layouts provided by Maven.



Neighbouring Residential Development



Neighbouring Residential Development



Station Road



Station Road



Station Road



Station Road



Within Site viewing East



Within Site viewing West



Legend

- Northern Solar Farm
- Southern Solar Farm
- Residential / Commercial
- Retirement Village
- Greenway / Stormwater Reserve

Client  
Unity Development

Project  
Ashbourne Development, Matamata, Waikato

Drawing  
2148/03 Project Scope Plan



Scale  
1:4000@A1  
1:8000@A3

Issue Date  
17/11/25  
Issue  
S53

Drawn  
BP  
Checked  
SW

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