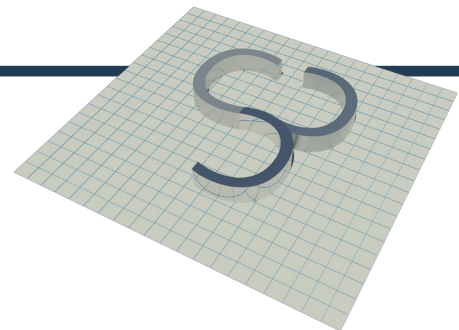


Appendix 12-3 Photomontages

Photomontages GLENAMUCK DISTRICT ROAD SCHEME



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Photomontage Views

Rev: 0

PM01 From Enniskerry Road near De La Salle looking SE

- Existing
- Proposed



PM02 From outside the Glenside Apartments looking West

- Existing
- Proposed



PM03 From Glenamuck Road near Rambledown looking SW

- Existing
- Proposed



PM04 Ballycorus Road near pylon looking South

- Existing
- Proposed



PM05 Barnaslingan Lane looking South

- Existing
- Proposed



PM06 From Three Rock Transmitter, Ticknock Hill looking SE

- Existing
- Proposed



Photomontage Views

Rev: 0

PML01 From De la Salle Rugby Carpark looking South

- Existing
- Proposed



PML02 From Enniskerry Road new entrance looking W

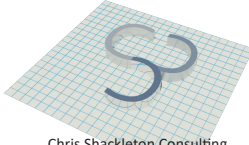
- Existing
- Proposed



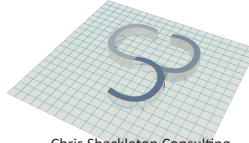


Name	Camera Locations	Dun Laoghaire Rathdown County Council			 www.shackleton.ie Chris Shackleton Consulting
Status	Photomontage View Locationsi				
Scale	Not to Scale				
Glenamuck Districk Road Scheme		Rev: 0			



Name PM01 Status Existing Reference: From Enniskerry Road near De La Salle looking SE		Dun Laoghaire Rathdown County Council	Camera location 720071, 723259, 123.8	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting
Glenamuck Districk Road Scheme			Target Direction 720526, 723051, 126.2	Date/Time: 28/08/2018 12:59	
Rev: 0			Recommended viewing distance with both eyes is 500mm.		



Name PM01 Status Proposed Reference: From Enniskerry Road near De La Salle looking SE		Dun Laoghaire Rathdown County Council	Camera location 720071, 723259, 123.8	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting	
Glenamuck Districk Road Scheme			Rev: 0	Target Direction 720526, 723051, 126.2		Date/Time: 28/08/2018 12:59
Recommended viewing distance with both eyes is 500mm.						



Name Status Reference:	PM02 Existing From outside the Glenside Apartments looking West	Dun Laoghaire Rathdown County Council	Camera location 721469, 723701, 87.7	Camera Lens HView Angle	Canon 6D Mk 2 Canon EF 50mm Nominal 40 degrees	
Glenamuck Districk Road Scheme			Rev: 0	Target Direction 721000, 723527, 90.9	Date/Time: 28/08/2018 11:48	
Recommended viewing distance with both eyes is 500mm.						

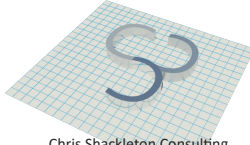


Name	PM02	Dun Laoghaire Rathdown County Council	Camera location	Camera	Canon 6D Mk 2	 www.shackleton.ie Chris Shackleton Consulting
Status	Proposed		721469, 723701, 87.7	Lens	Canon EF 50mm	
Reference:	From outside the Glenside Apartments looking West		HView Angle	Nominal 40 degrees		
Glenamuck Districk Road Scheme		Rev: 0	Target Direction	Date/Time:	28/08/2018 11:48	Recommended viewing distance with both eyes is 500mm.
			721000, 723527, 90.9			

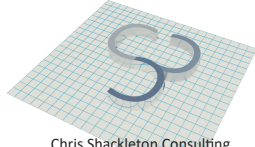


Name PM03 Status Existing Reference: From Glenamuck Road near Rambledown looking SW		Dun Laoghaire Rathdown County Council	Camera location 720993, 723133, 100.3	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	<div><div>www.shackleton.ie</div><div>Chris Shackleton Consulting</div></div>	
Glenamuck Districk Road Scheme			Rev: 0	Target Direction 720648, 722771, 117.7		Date/Time: 29/08/2018 10:05
Recommended viewing distance with both eyes is 500mm.						




Name PM03 Status Proposed Reference: From Glenamuck Road near Rambledown looking SW		Dun Laoghaire Rathdown County Council	Camera location 720993, 723133, 100.3 Target Direction 720648, 722771, 117.7		Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting	
Glenamuck Districk Road Scheme			Date/Time: 29/08/2018 10:05				
Rev: 0			Recommended viewing distance with both eyes is 500mm.				



Name PM04 Status Existing Reference: Ballycorus Road near pylon looking South		Dun Laoghaire Rathdown County Council	Camera location 720846, 722133, 137.7	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 www.shackleton.ie Chris Shackleton Consulting
Glenamuck Districk Road Scheme			Target Direction 721235, 721818, 142.1	Date/Time: 28/08/2018 15:12	
Rev: 0			Recommended viewing distance with both eyes is 500mm.		




Name PM04 Status Proposed Reference: Ballycorus Road near pylon looking South		Dun Laoghaire Rathdown County Council	Camera location 720846, 722133, 137.7 Target Direction 721235, 721818, 142.1	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 28/08/2018 15:12	<div><div>www.shackleton.ie</div><div>Chris Shackleton Consulting</div></div>	
Glenamuck Districk Road Scheme						Rev: 0
Recommended viewing distance with both eyes is 500mm.						



Name Status Reference:	PM05 Existing Barnaslingan Lane looking South	Dun Laoghaire Rathdown County Council	Camera location 720968, 721803, 136.9	Camera Lens HView Angle	Canon 6D Mk 2 Canon EF 50mm Nominal 40 degrees	
Glenamuck Districk Road Scheme			Rev: 0	Target Direction 721143, 721335, 139.4	Date/Time: 28/08/2018 14:38	
Recommended viewing distance with both eyes is 500mm.						

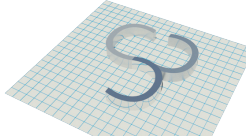


Name PM05 Status Proposed Reference: Barnaslingan Lane looking South		Dun Laoghaire Rathdown County Council	Camera location 720968, 721803, 136.9 Target Direction 721143, 721335, 139.4	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 28/08/2018 14:38		
Glenamuck Districk Road Scheme						Rev: 0
Recommended viewing distance with both eyes is 500mm.						



Name PM06 Status Existing Reference: From Three Rock Transmitter, Ticknock Hill looking SE		Dun Laoghaire Rathdown County Council	Camera location 717749, 723299, 449.4	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 www.shackleton.ie Chris Shackleton Consulting	
			Target Direction 718248, 723304, 414.6	Date/Time: 29/08/2018 11:54		
Glenamuck Districk Road Scheme			Rev: 0	Recommended viewing distance with both eyes is 500mm.		



Name PM06 Status Proposed Reference: From Three Rock Transmitter, Ticknock Hill looking SE		Dun Laoghaire Rathdown County Council	Camera location 717749, 723299, 449.4	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	<div><div>www.shackleton.ie</div><div>Chris Shackleton Consulting</div></div>	
			Target Direction 718248, 723304, 414.6	Date/Time: 29/08/2018 11:54		
Glenamuck Districk Road Scheme			Rev: 0	Recommended viewing distance with both eyes is 500mm.		



Name PML01
Status Existing
Reference: From De la Salle Rugby Carpark
looking South

Glenamuck Districk Road Scheme

Rev:
0

Dun Laoghaire Rathdown
County Council

Camera location
720184, 723237, 117.7

Target Direction
720094, 722745, 118.7

Camera Canon 6D Mk 2
Lens Canon EF 50mm
HView Angle Nominal 40 degrees

Date/Time: 28/08/2018 14:04

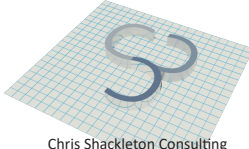
Recommended viewing distance with both eyes is 500mm.





Name	PML01	Dun Laoghaire Rathdown County Council	Camera location	Camera	Canon 6D Mk 2	 www.shackleton.ie Chris Shackleton Consulting
Status	Proposed		720184, 723237, 117.7	Lens	Canon EF 50mm	
Reference:	From De la Salle Rugby Carpark looking South		Target Direction	HView Angle	Nominal 40 degrees	
Glenamuck Districk Road Scheme		720094, 722745, 118.7	Date/Time: 28/08/2018 14:04			
		Rev: 0	Recommended viewing distance with both eyes is 500mm.			



Name PML02 Status Existing Reference: From Enniskerry Road new entrance looking W		Dun Laoghaire Rathdown County Council	Camera location 720184, 723140, 122.2	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	<div>www.shackleton.ie</div>  <div>Chris Shackleton Consulting</div>	
			Target Direction 720157, 723155, 122.2	Date/Time: 24/09/2018 16:06		
Glenamuck Districk Road Scheme			Rev: 0	Recommended viewing distance with both eyes is 500mm.		



Name PML02 Status Proposed Reference: From Enniskerry Road new entrance looking W		Dun Laoghaire Rathdown County Council	Camera location 720184, 723140, 122.2	Camera Canon 6D Mk 2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 www.shackleton.ie Chris Shackleton Consulting
Glenamuck Districk Road Scheme			Target Direction 720157, 723155, 122.2	Date/Time: 24/09/2018 16:06	
Rev: 0			Recommended viewing distance with both eyes is 500mm.		

Photomontage Methodology / Method Statement

Work has been completed in accordance with best practice guidelines a summary of which are provided below.

Preparation

Prior to site visit camera locations were identified and located on digital map to enable GPS routing to the correct locations. The site was “scouted” for access using Google Streetview (c) Google.

Photography

- Photographs were taken on site at locations specified using a high-resolution professional digital camera. The Camera a Canon 6D is a full frame format (which corresponds to a traditional 35mm film format) as recommended by best practice guidelines.
- Images will be taken in RAW format which provides the maximum flexibility in adjustment along with the best quality available, and with bracketed exposure. The images were stored with embedded camera/photo exif data.
- The camera was tripod mounted, spirit leveled and set at a nominal 1.6m above ground level
- The lens used as a Canon prime (fixed) 50mm or normal lens. The 50mm lens provides a similar magnification to the human eye and will provide an image which is accepted.

Control

A series of survey points were captured on site for each photograph using Trimble R8 survey grade RTK-GPS. The following were measured:

- The camera position, plan and height
- Measured points of detail visible when the photograph was taken. On streetscape scenes points of detail (corners of buildings, poles, sign, white lines, structures, etc) are surveyed to provide an accurate orientation base where insufficient existing detail is available we supplement with either with red/white ranging rods or smaller orange cones placed in the camera’s field of view while taking the photograph.
- Regardless of the type of control the configuration shall be non-collinear with a good photogrammetric geometry. This ensures that computational analysis is convergent.

Setting up AVR Images

- Survey and OS mapping is imported into 3D software
- A calibrated virtual 50mm camera is created to match the physical one used to capture the image. These are snapped to the surveyed locations. The individual photograph frames are loaded into the viewport.
- Using in-built software algorithms the virtual camera is adjusted so the points of detail on the photograph and the surveyed points in real-life coalesce in the camera viewport. Once complete the virtual camera will be orientated so that it is identical to the physical camera that took the base photograph.
- Checks are made using the surveyed information and project mapping and cross referenced with the photographs to ensure they align.
- A Daylight system is then accurately introduced into the scene at it correct geo-referenced coordinates. Once the time/date and time zone is set the digital sky will match the position of the sun and shadows created by the same in the base photograph.

Verifiable Photomontage & Proposed development modelling

- The proposed development, structure, road works and earthworks is modeled up in 3D from the drawings provided by the Client / Design Team.
- The building is located in accordance with surveyed location and at the correct FFL.
- True life digital materials are designed and assigned to the 3D model elements using reference imagery provided by the client. Sophisticated real world rendering shaders are used in conjunction with the daylight system to produce final renders which will react in a verifiable manner to match the reference photographic base images.
- Finally, the new development image and the existing original photograph are merged with due care for any demolitions/removals, foreground / background existing objects, landscaping, lighting, shadows, etc. to produce a single believable and verifiable composite image.

Viewing instructions

These images are designed to be printed at A3 and taken to site to evaluate the impact of the development.

Images should be viewed with both eyes open from the locations indicated and held 500mm from the viewers eyes. (Arms length). When held at arms length the viewer should be able to effectively focus not only on the photomontage in hand but also on the surrounding landscape which will give them a much wider field of view.

When used in this fashion the existing landscape will line-up and the photomontage will provide similar perspective and thus enable the viewer to visually evaluate the proposal.

