

Photomontages

RIVER PODDLE FLOOD ALLEVIATION SCHEME

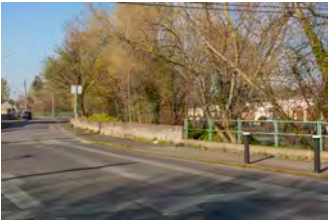
- PM01 Mount Argus Close looking SW
- Existing
 - Proposed



- PM02 St Martin's Drive looking W
- Existing
 - Proposed



- PM03 Poddle Park looking NE
- Existing
 - Proposed



- PM04 Ravensdale Park looking S
- Existing
 - Proposed



- PM05 Kimmage Road Lower looking SW
- Existing
 - Proposed



- PM06 Ravensdale Drive looking E
- Existing
 - Proposed



- PM07 Kimmage Road Lower looking NW
- Existing
 - Proposed



- PM08 Whitehall looking NE
- Existing
 - Proposed



- PM09 Tymon Lake East looking SW
- Existing
 - Proposed



- PM10 Tymon Lake North looking E
- Existing
 - Proposed

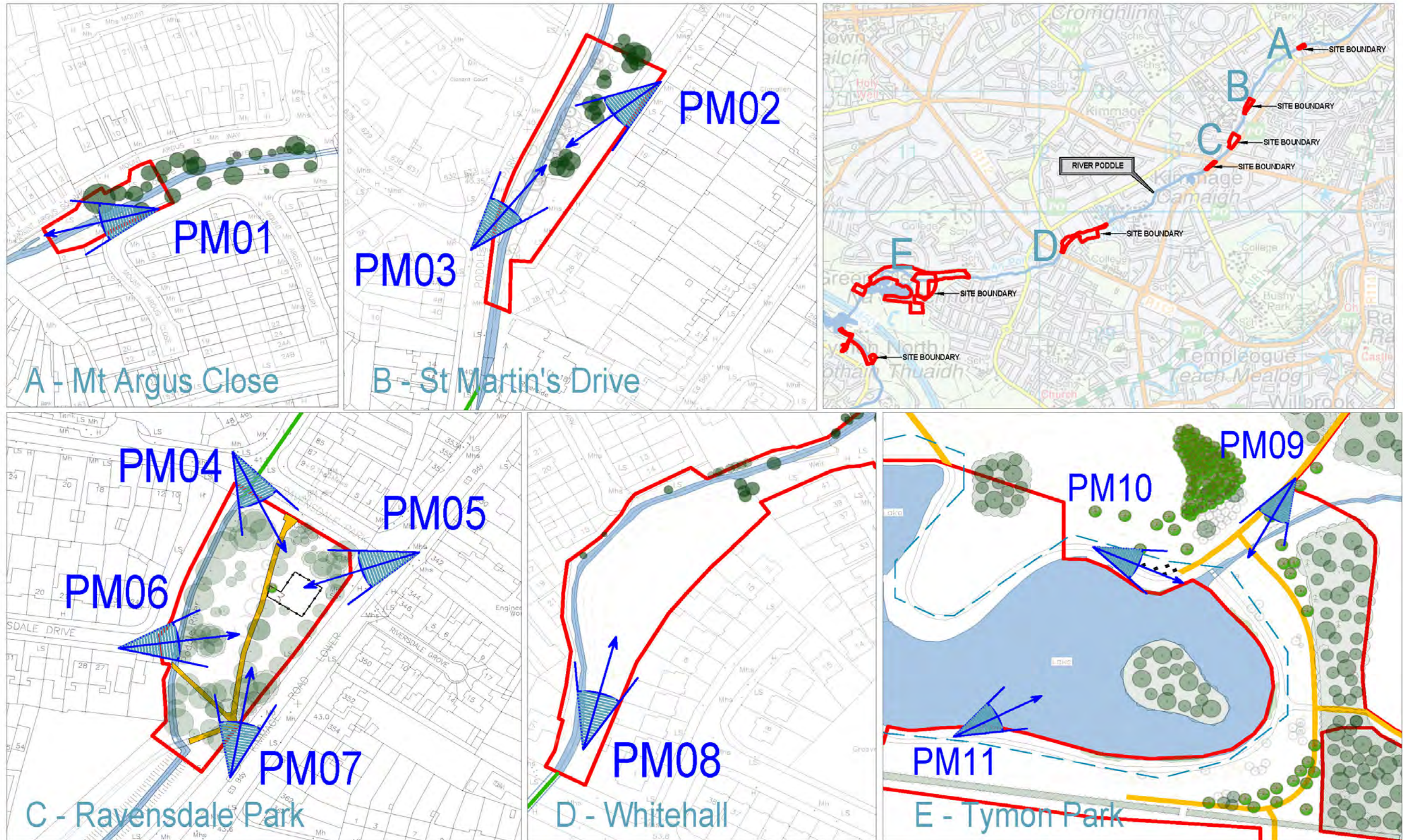


- PM11 Tymon Lake South looking NE
- Existing
 - Proposed



Info - Photomontage Methodology / Method Statement

Info - Revealed Background Methodology



Name Camera Locations
 Status N/A
 Scale Not to Scale

**River Poddle
 Flood Alleviation Scheme**

Rev:
 0

Comhairle Contae
 Átha Cliath Theas
 South Dublin County Council

Comhairle Cathrach
 Bhaile Átha Cliath
 Dublin City Council

OPW
 100% in partnership with
 The Office of Public Works

CSC Chris
 Shackleton
 Consulting
www.shackleton.ie info@shackleton.ie



Name PM01		  	Camera location 713945, 713191, 36.5		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie				
Status Existing	Reference: Mount Argus Close looking SW		Target Direction 713898, 713179, 36.6						
Rev: 0			Date/Time: 17/04/2019 14:50						
River Poddle Flood Alleviation Scheme			Recommended viewing distance with both eyes is 500mm.						

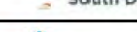
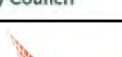


Name PM01		 Comhairle Contae Átha Cliath Theas South Dublin County Council	Camera location 713945, 713191, 36.5		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie	
Status	Proposed		Target Direction 713898, 713179, 36.6			
Reference:	Mount Argus Close looking SW		Date/Time: 17/04/2019 14:50			
River Poddle Flood Alleviation Scheme		Rev: 0	Recommended viewing distance with both eyes is 500mm.			

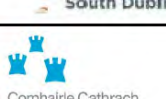


Name PM02 Status Existing Reference: St Martin's Drive looking W		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 713559, 730941, 40.7	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme		 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW OFFICE OF PUBLIC WORKS THE OFFICE OF PUBLIC WORKS	Target Direction 713477, 730879, 41.3	Date/Time: 10/04/2019 17:15	
Rev: 0		Recommended viewing distance with both eyes is 500mm.				



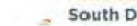
Name PM02 Status Proposed Reference: St Martin's Drive looking W		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 713559, 730941, 40.7		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
River Poddle Flood Alleviation Scheme		Rev: 0	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW Office of Public Works	Target Direction 713477, 730879, 41.3		Date/Time: 10/04/2019 17:15		Recommended viewing distance with both eyes is 500mm.	



Name PM03		 Comhairle Contae Átha Cliath Theas South Dublin County Council	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW Óifig na hArdmáistrí Poblaithe The Public Works Division	Camera location 713479, 730864, 42.0	Camera Canon 6D mk2	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
Status Existing					Target Direction 713532, 730929, 41.9	Lens Canon EF 50mm	
Reference: Poddle Park looking NE						HView Angle Nominal 40 degrees	
River Poddle Flood Alleviation Scheme		Rev: 0			Date/Time: 10/04/2019 16:40	Recommended viewing distance with both eyes is 500mm.	



For this image please review the “Revealed Hidden Background / Method Statement” at the end of this document

Name PM03			Camera location		Camera Canon 6D mk2	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
Status	Proposed		713479, 730864, 42.0		Lens Canon EF 50mm	
Reference:	Poddle Park looking NE		HView Angle		Nominal 40 degrees	
River Poddle Flood Alleviation Scheme		Rev: 0	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW Óráid na n-Ádhmhairí, Póilín The Office of Public Works	Target Direction	Date/Time: 10/04/2019 16:40
					713532, 730929, 41.9	Recommended viewing distance with both eyes is 500mm.



Name PM04 Status Existing Reference: Ravensdale Park looking S		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 713401, 730690, 43.9		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme		 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council		Target Direction 713427, 730637, 43.9		Date/Time: 17/04/2019 15:26		
		 OPW The Office of Public Works				Recommended viewing distance with both eyes is 500mm.		

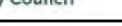


Name PM04		  	Camera location 713401, 730690, 43.9	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie				
Status Proposed	Reference: Ravensdale Park looking S								
Rev: 0									
River Poddle Flood Alleviation Scheme			Target Direction 713427, 730637, 43.9	Date/Time: 17/04/2019 15:26	Recommended viewing distance with both eyes is 500mm.				



Name	PM05	 Comhairle Contae Átha Cliath Theas South Dublin County Council	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW Óifig na nAitheascarthaí Poblacha (The Public Works of Public Service)	Camera location 713478, 730645, 44.2	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
Status	Existing				Target Direction 713445, 730634, 44.3	Date/Time: 17/04/2019 15:45	
Reference:	Kimmage Road Lower looking SW				Recommended viewing distance with both eyes is 500mm.		
River Poddle Flood Alleviation Scheme		Rev: 0					



Name PM05 Status Proposed Reference: Kimmage Road Lower looking SW		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 713478, 730645, 44.2		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme		 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW OFFICE OF PUBLIC WORKS The Office of Public Works	Target Direction 713445, 730634, 44.3		Date/Time: 17/04/2019 15:45		
		Rev: 0				Recommended viewing distance with both eyes is 500mm.		



Name PM06			Camera location 713354, 730602, 44.9	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
Status Existing					
Reference: Ravensdale Drive looking E					
River Poddle Flood Alleviation Scheme				Target Direction 713378, 730605, 45.1	Date/Time: 17/04/2019 16:08
Rev: 0		Recommended viewing distance with both eyes is 500mm.			



Name PM06 Status Proposed Reference: Ravensdale Drive looking E		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 713354, 730602, 44.9		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme		 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW The Office of Public Works	Target Direction 713378, 730605, 45.1		Date/Time: 17/04/2019 16:08		
		Rev: 0	Recommended viewing distance with both eyes is 500mm.					



Name PM07		 Comhairle Contae Átha Cliath Theas South Dublin County Council	Camera location 713400, 730544, 45.5		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
Status Existing	Reference: Kimmage Road Lower looking NW		Lens Canon EF 50mm HView Angle Nominal 40 degrees				
Date/Time: 17/04/2019 16:01							
River Poddle Flood Alleviation Scheme		Rev: 0	Target Direction 713411, 730605, 45.8		Recommended viewing distance with both eyes is 500mm.		

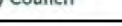


Name PM07 Status Proposed Reference: Kimmage Road Lower looking NW		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 713400, 730544, 45.5		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
River Poddle Flood Alleviation Scheme		Rev: 0	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW OFFICE OF PUBLIC WORKS	Target Direction 713411, 730605, 45.8		Date/Time: 17/04/2019 16:01		Recommended viewing distance with both eyes is 500mm.	



Name PM08 Status Existing Reference: Whitehall looking NE	  	Camera location 712108, 729702, 55.7 Target Direction 712123, 729758, 56.0	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 10/04/2019 15:37 Recommended viewing distance with both eyes is 500mm.	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme	Rev: 0			



Name PM08 Status Proposed Reference: Whitehall looking NE		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 712108, 729702, 55.7		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
River Poddle Flood Alleviation Scheme		Rev: 0	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW OFFICE OF PUBLIC WORKS	Target Direction 712123, 729758, 56.0		Date/Time: 10/04/2019 15:37		Recommended viewing distance with both eyes is 500mm.	



Name PM09 Status Existing Reference: Tymon Lake East looking SW	  	Camera location 710962, 729469, 61.5 Target Direction 710923, 729398, 61.7	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 10/04/2019 14:28 Recommended viewing distance with both eyes is 500mm.	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme	Rev: 0			



Name PM09 Status Proposed Reference: Tymon Lake East looking SW		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 710962, 729469, 61.5		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
River Poddle Flood Alleviation Scheme		Rev: 0	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW OFFICE OF PUBLIC WORKS The Office of Public Works	Target Direction 710923, 729398, 61.7		Date/Time: 10/04/2019 14:28		Recommended viewing distance with both eyes is 500mm.	

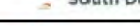


Name PM10		  	Camera location 710859, 729431, 61.4	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
Status Existing	Reference: Tymon Lake North looking E		Target Direction 710935, 729398, 61.7			
Rev: 0			Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 10/04/2019 14:50 Recommended viewing distance with both eyes is 500mm.			
River Poddle Flood Alleviation Scheme						



Name PM10 Status Proposed Reference: Tymon Lake North looking E	  	Camera location 710859, 729431, 61.4 Target Direction 710935, 729398, 61.7	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 10/04/2019 14:50 Recommended viewing distance with both eyes is 500mm.	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme	Rev: 0			



Name PM11 Status Existing Reference: Tymon Lake South looking NE		 Comhairle Contae Átha Cliath Theas South Dublin County Council		Camera location 710788, 729326, 61.8		Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees		 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie		
River Poddle Flood Alleviation Scheme		Rev: 0	 Comhairle Cathrach Bhaile Átha Cliath Dublin City Council	 OPW OFFICE OF PUBLIC WORKS	Target Direction 710930, 729398, 62.2		Date/Time: 10/04/2019 15:09		Recommended viewing distance with both eyes is 500mm.	



Name PM11 Status Proposed Reference: Tymon Lake South looking NE	  	Camera location 710788, 729326, 61.8 Target Direction 710930, 729398, 62.2	Camera Canon 6D mk2 Lens Canon EF 50mm HView Angle Nominal 40 degrees Date/Time: 10/04/2019 15:09 Recommended viewing distance with both eyes is 500mm.	 Chris Shackleton Consulting www.shackleton.ie info@shackleton.ie
River Poddle Flood Alleviation Scheme	Rev: 0			

Photomontage Methodology / Method Statement

Work has been completed in accordance with best practice guidelines a summary of which is 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 were 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 unless specifically noted otherwise on the individual images.
- The lens used was 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 for planning uses.

Control

A series of survey points were captured on site for each photograph using Trimble R8 (or similar) survey grade VRS-GPS. The following were measured:

- The camera position, plan and height
- Measured points of detail visible when the photograph were taken. On streetscape scenes points of detail (corners of buildings, poles, signs, white lines, structures, etc) were 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 is designed to be non-collinear with a good photogrammetric geometry. This ensures that computational analysis was convergent.

Setting up AVR Images

- Survey and OS mapping was imported into 3D software
- A calibrated virtual 50mm camera was created to match the physical one used to capture the image. These are snapped to the surveyed locations. The individual photograph frames were loaded into the viewport.
- Using in-built software algorithms the virtual camera was 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 was orientated so that it is identical to the physical camera that took the base photograph.
- Checks were made using the surveyed information and project mapping. This was cross referenced with the photographs to ensure they align.
- A Daylight system was then accurately introduced into the scene at it correct geo-referenced coordinates. Once the time/date and time zone is set the digital sun and skylight 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 was modeled up in 3D from the drawings provided by the Client / Design Team.
- The building were located in accordance with surveyed location and at the correct FFL.
- True life digital materials were designed and assigned to the 3D model elements using reference imagery provided by the client. Sophisticated real world rendering shaders were 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 were 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.



Revealed Hidden Background / Method Statement

Some of the views in this project expose areas of previously hidden background, in this case housing. A copy of these images and the relevant newly exposed background areas are highlighted here in red.

Methodology

For these images the existing trees (which are to be removed) block all views from this distance / angle. There is no option to take a matching shot from a gap or slightly elevated position. It is not possible without the removal of the intervening vegetation, which is the subject of the application to capture replacement reference photography with the same perspective and scale.

We have thus taken a series of new photographs and best matched these to provide a good representation of the level of permeability that the view will have. Since the supplementary imagery cannot exactly match the base photograph's point of view the red shaded area should be considered as representative.

