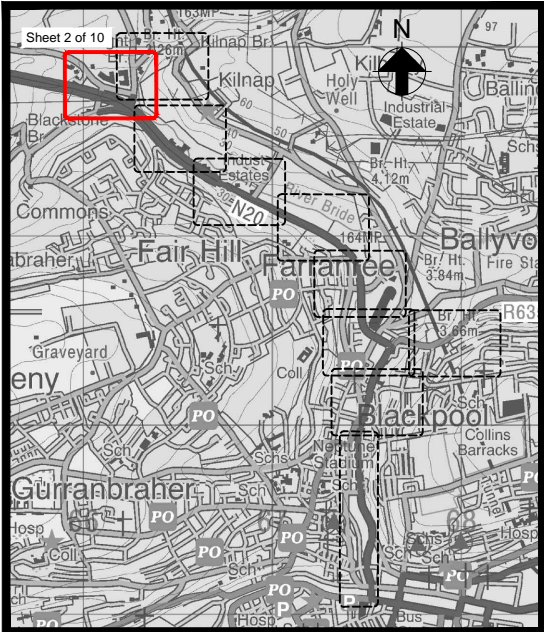


Location Plan



Key Plan

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Key to Plan

- | | | | |
|--|---|--|---|
| | Watercourse | | Existing Culvert to be Retained |
| | Channel Centreline, Reference (C08) and Chainage (300m) | | Proposed Regrading of Ground Levels |
| | Photomontage (Location, Orientation and No.) | | Proposed Retaining Wall |
| | Proposed Flood Defence Wall | | Proposed Vehicle Access Gate |
| | Interference Reference | | Proposed Fencing |
| | Location and Reference of Cross Section | | Proposed Surface Water Overland Flow Route |
| | Proposed Works Chainage (m) | | Provisionally Proposed Sediment Trap (Flood Plain Reproiling) |
| | Proposed New Bridge | | Provisionally Proposed Landscaping |
| | Proposed Roughing Screen | | Provisionally Proposed Geomorphic Features (Riffles) |

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Proposed Works
C06_T01	2616	-	Existing 2 no. trash screens to be removed and replaced with a single new roughing screen upstream of Rose Cottage.
C06_L01	-	0 to 41	Proposed reinforced concrete wall to be constructed to a height typically 0.65m above existing ground levels to flood defence level (25.00mOD). All drainage outfalls to be fitted with non-return valves.
C06_L01	-	41 to 122	Proposed reinforced concrete wall to be constructed above flood defence level (25.00mOD) to 25.80mOD on the wet side of the existing boundary wall at Rose Cottage. Flood wall to tie into high ground at each end. Finished wall height to be typically 1.70m above existing ground levels. All drainage outfalls to be fitted with non-return valves.
C06_L01a	-	0 to 6	Proposed reinforced concrete headwall and wing wall structure to be constructed around the existing concrete culvert inlet.
C06_R01	-	0 to 15	Proposed vehicle access ramp crest to be at flood defence level (25.00mOD). Proposed ramp to tie into the proposed flood defence wall at Rose Cottage and high ground at the N20 road embankment.
C09_R01	-	0 to 93	Proposed surface water drainage measures and regrading of local ground levels to divert excess surface water runoff from the Commons Road and the River Bride (from Rose Cottage) into the Rathpeacon Stream.
C06_R02	-	0 to 13	Proposed regrading of existing ground levels to divert surface water overland flow (during a design exceedance event) underneath the existing N20 road bridge to the Rathpeacon Stream.
C08_B01	-	0 to 8	Replace existing masonry bridge with a new reinforced concrete bridge. Bridge to be of 10.50m clear span and 8m wide deck. Construct new access ramps to bridge, incorporating new reinforced concrete retaining walls where necessary.
C08_R01	-	0 to 47	Proposed surface water drainage measures and regrading of local ground levels to divert excess surface water runoff from Sweeney's Hill into the River Glenamought upstream of North Point Business Park bridge.
C08_B02	-	0 to 20	Replace existing pipe culvert bridge with a new reinforced concrete bridge. Bridge to be of 9.00m clear span and 20m wide deck. Construct new access ramps to bridge, incorporating new reinforced concrete retaining walls where necessary.
C06_C01a	2077 to 2241	-	Provisionally proposed sediment trap. Proposed flood scalping and lowering on the inside channel bends to create a second stage channel to reduce velocities in lower order floods.
C06_C01b	2124 to 2192	-	Provisionally proposed landscaping to deposition areas to match existing ground.
C06_C01c	2071 to 2192	-	Provisionally proposed geomorphic features, such as riffles, to be constructed within the channel.
C08_G01	0 to 517	-	Channel to be maintained over a distance of 517m from the confluence of the River Glenamought and River Bride (C08_000) to upstream of the proposed roughing screen (C08_517).
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06_000) to upstream of Rose Cottage (C06_2623).
C09_G01	0 to 193	-	Channel to be maintained over a distance of 193m from C09_000 to C09_193.

- Notes:
- Do not scale from drawing.
 - Proposed works geometry and extents are subject to detailed design.
 - This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. RB_202 Proposed Flood Defences - Plan Layout (Sheet 2 of 10)

ARUP

Ove Arp & Partners Ireland Ltd.,
15 Oliver Plunkett Street,
Cork,
Ireland.
Tel: +353 (0) 21 427670
Fax: +353 (0) 21 427675

JBA
consulting

24 Grove Island,
County Kerry,
Ireland.
Tel: +353 (0) 61 345463
Fax: +353 (0) 61 280146

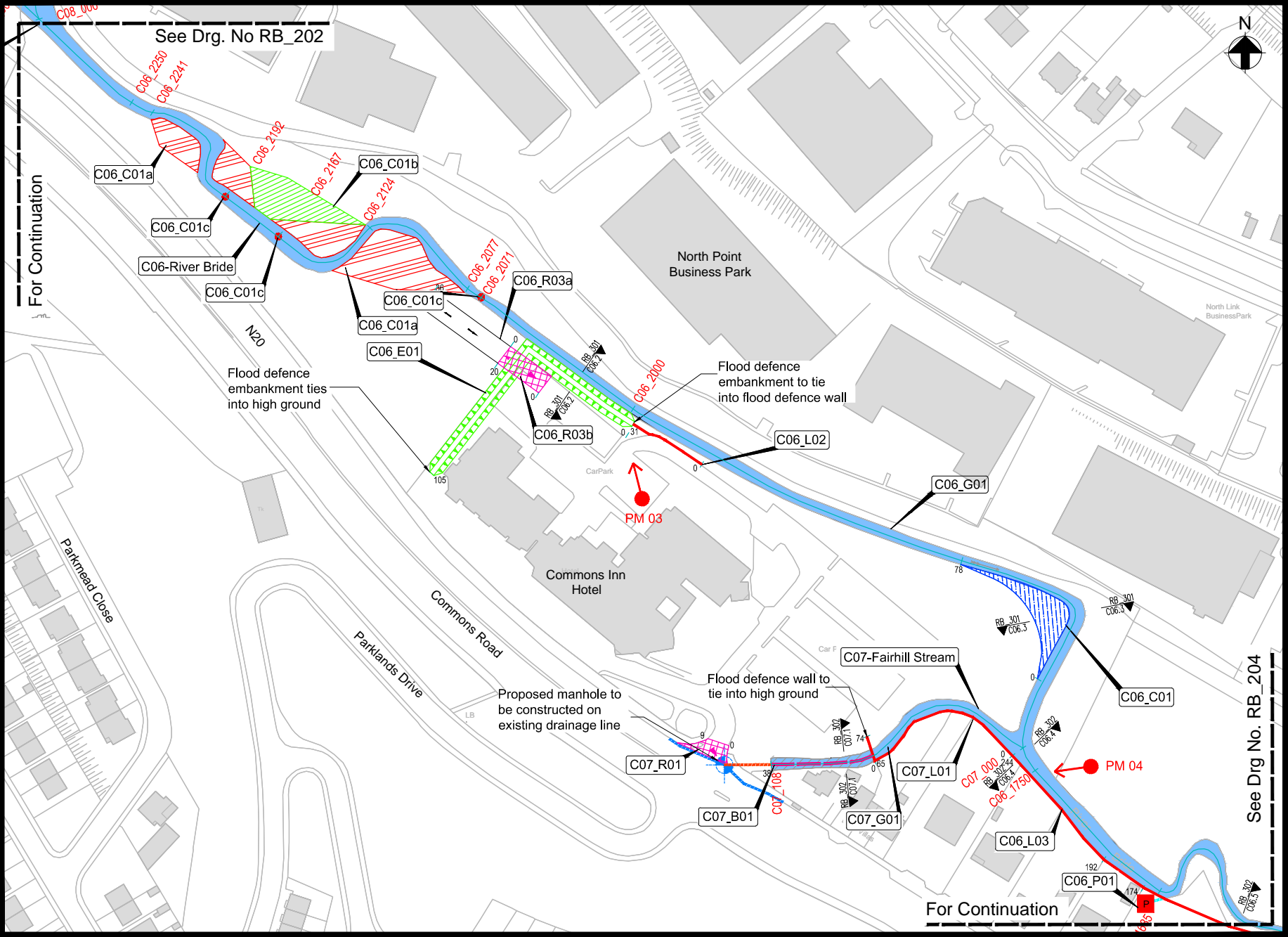
Cork City Council,
City Hall, Anglesea Street,
Cork, Ireland.
Tel: +353 (0) 21 4966222
Fax: +353 (0) 21 4314238

Cork County Council Headquarters,
County Hall,
Carrigrohane Road,
Cork, Ireland.
Tel: +353 (0) 21 4276891
Fax: +353 (0) 21 4276321

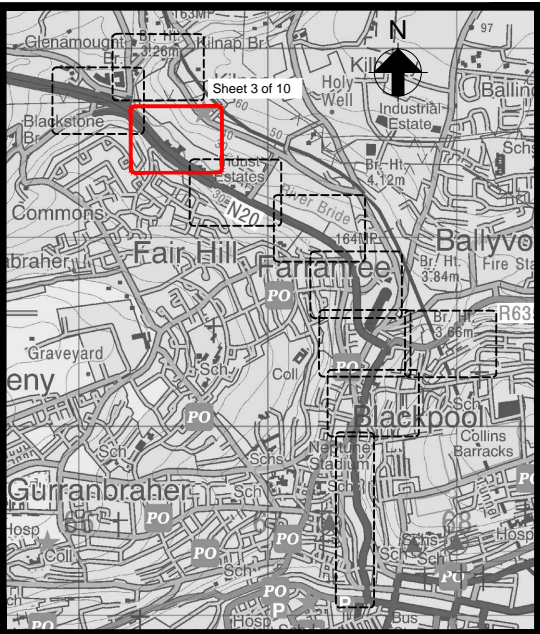
OPW
The Office of Public Works
15 St. Stephen's Green,
Dublin 2,
Ireland.
Tel: +353 (0) 1 647 6000
Fax: +353 (0) 1 661 0747

River Bride (Blackpool) Certified Drainage Scheme

Issued for Exhibition November 2015



Location Plan



Key Plan

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Key to Plan

	Watercourse		Proposed Flood Defence Embankment
	Channel Centreline, Reference (C06) and Chainage (300m)		Proposed Winter Channel
	Photomontage (Location, Orientation and No.)		Proposed Pipe Culvert
	Proposed Flood Defence Wall		Proposed Backfill of Existing Watercourse
	Interference Reference		Proposed Regrading of Ground Levels
	Location and Reference of Cross Section		Proposed Pumping Station (Surface Water)
	Proposed Manhole (Surface Water)		Proposed Rising Main (Surface Water)
	Proposed Drain (Surface Water)		Provisionally Proposed Geomorphic Features (Riffles)
	Existing Drain (Surface Water)		Provisionally Proposed Sediment Trap (Flood Plain Reprofiling)
	Proposed Works Chainage (m)		Provisionally Proposed Landscaping
	Proposed Maintenance Track		

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Proposed Works
C06_C01a	2077 to 2241	-	Provisionally proposed sediment trap. Proposed flood scalping and lowering on the inside channel bends to create a second stage channel to reduce velocities in lower order floods.
C06_C01b	2124 to 2192	-	Provisionally proposed landscaping to deposition areas to match existing ground.
C06_C01c	2071 to 2192	-	Provisionally proposed geomorphic features, such as riffles, to be constructed within the channel.
C06_E01	-	0 to 105	Proposed flood defence embankment to be constructed 6.80m wide and to a height of typically 0.80m above existing ground levels to flood defence level (21.90mOD). Flood defence embankment to tie into high ground and a proposed flood defence wall as shown on the drawing.
C06_R03a	-	0 to 36	Provisionally proposed access track to provide vehicular maintenance access from the Commons Inn to the sediment trap upstream.
C06_R03b	-	0 to 20	Provisionally proposed vehicle access ramp crest to be at flood defence level (21.90mOD). Proposed ramp to provide vehicular access over the proposed flood defence embankment.
C06_L02	-	0 to 31	Proposed reinforced concrete flood defence wall to be constructed typically 0.45m above existing ground levels to flood defence level (21.72mOD). Proposed defence wall to tie into proposed flood defence embankment. All drainage outfalls to be fitted with non-return valves.
C06_C01	-	0 to 78	Proposed winter channel to be constructed downstream of the Commons Inn in order to increase conveyance during flood events. Winter channel to be a maximum width of 10m wide at mid-section.
C07_B01	-	0 to 38	Proposed 0.90m diameter concrete pipe culvert to be constructed over a length of 38m at the rear of Bride Villas to tie into the existing 0.45m diameter concrete culvert. Existing channel to be backfilled over the proposed culvert over a distance of 38m and reinstated with topsoil and grass. A proposed surface water drain is to be constructed to discharge excess surface water run off to the Fairhill Stream. All drainage outlets to be fitted with non-return valves.
C07_L01	-	0 to 74	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into high ground at the Commons Inn car park and into proposed flood wall C06_L03. All drainage outfalls to be fitted with non-return valves, other than the outlet of the proposed 0.90m pipe.
C07_R01	-	0 to 9	Proposed regrading of existing ground levels at the Commons Inn entrance to divert excess surface runoff to the Fairhill Stream.
C06_L03	-	192 to 244	Proposed reinforced concrete flood defence wall to be constructed typically 0.83m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into flood wall C07_L01 at the upstream end. All drainage outfalls to be fitted with non-return valves.
C06_L03	-	174 to 192	Proposed reinforced concrete flood defence wall to be constructed typically 1.32m above existing ground levels to flood defence level (19.80mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	119 to 174	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (19.58mOD). All drainage outfalls to be fitted with non-return valves.
C06_P01	1685	-	Proposed overflow surface water pumping station and rising main to operate during a flood event at C06_1685. All outlets to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to upstream face of Rose Cottage (C06_2623).
C07_G01	0 to 108	-	Channel to be maintained over a distance of 108m from the confluence of the River Bride and the Fairhill Stream(C07_000) to the tie in of the existing 450mm diameter pipe culvert and the proposed 900mm diameter pipe culvert (C07_108).

- Notes:
- Do not scale from drawing.
 - Proposed works geometry and extents are subject to detailed design.
 - This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. RB_203 Proposed Flood Defences - Plan Layout (Sheet 3 of 10)

Ove Arup & Partners Ireland Ltd.,
15 Oliver Plunkett Street,
Cork,
Ireland.
Tel: +353 (0)21 4277670
Fax: +353 (0)21 4272345

24 Grove Island,
County Kerry,
Cork, Ireland.
Tel: +353 (0) 61 345483
Fax: +353 (0) 61 280146

Cork City Council,
City Hall, Anglesea Street,
Cork, Ireland.
Tel: +353 (0) 21 4966222
Fax: +353 (0) 21 4314236

Cork County Council Headquarters,
County Hall, Carrigrohane Road,
Cork, Ireland.
Tel: +353 (0) 21 4276891
Fax: +353 (0) 21 4276321

51 St. Stephen's Green,
Dublin 2,
Ireland.
Tel: +353 (0) 1 647 6000
Fax: +353 (0) 1 661 0747

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Proposed Works
C07_L01		0 to 74	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into high ground at the Commons Inn car park and into proposed flood wall C06_L03. All drainage outfalls to be fitted with non-return valves, other than the outlet of the proposed 0.90m pipe.
C06_L03	-	192 to 244	Proposed reinforced concrete flood defence wall to be constructed typically 0.83m above existing ground levels to flood defence level (20.01mOD). Proposed flood wall to tie into flood wall C07_L01 at the upstream end. All drainage outfalls to be fitted with non-return valves.
C06_L03	-	174 to 192	Proposed reinforced concrete flood defence wall to be constructed typically 1.32m above existing ground levels to flood defence level (19.80mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	119 to 174	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (19.58mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	43 to 119	Proposed reinforced concrete flood defence wall to be constructed typically 1.20m above existing ground levels to flood defence level (19.50mOD). All drainage outfalls to be fitted with non-return valves.
C06_L03	-	0 to 43	Proposed reinforced concrete flood defence wall to be constructed typically 1.00m above existing ground levels to flood defence level (19.30mOD). Flood wall to tie into existing bridge parapet. All drainage outfalls to be fitted with non-return valves.
C06_P01	1685	-	Proposed overflow surface water pumping station and rising main to operate during a flood event at C06_1685. All outlets to be fitted with non-return valves.
C06_L03a	-	0 to 9	Proposed new reinforced concrete bridge parapet to be constructed typically 0.55m above existing bridge deck level to flood defence level (19.30mOD). All drainage outfalls to be fitted with non-return valves.
C06_C02	-	-	Not used.
C06_P02	1414	-	Proposed overflow surface water pumping station and rising main to be constructed on existing surface water drainage network at C06_1414. Pump to operate during a flood event. All outlets to be fitted with non-return valves.
C06_B01	-	0 to 9	Replace existing masonry bridge with a new reinforced concrete bridge. Bridge to be of 7.40m clear span and 9.00m wide deck. Construct new access ramps to bridge, incorporating new reinforced concrete retaining walls where necessary.
C06_L04	-	0 to 81	Existing river wall to be raised to a height typically 0.59m above existing ground levels to flood defence level (17.51mOD). The proposal to raise the existing river wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L05	-	0 to 76	Existing river wall to be raised to a height typically 0.56m above existing ground levels to flood defence level (17.51mOD). The proposal to raise the existing river wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L06	-	0 to 9	Existing bridge parapet to be raised to a height 0.57m above existing ground levels to flood defence level (17.51mOD). The proposal to raise the existing bridge parapet is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L07	-	0 to 9	Formalise and repair existing bridge parapet to flood defence level (17.03mOD), where necessary.
C06_L08	-	75 to 153	Existing river wall to be raised to a height typically 0.45m above existing ground levels to flood defence level (17.03mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L09	-	75 to 151	Existing river wall to be raised to a height typically 0.35m above existing ground levels to flood defence level (17.03mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to upstream of Rose Cottage (C06-2623).
C07_G01	0 to 108	-	Channel to be maintained over a distance of 108m from the confluence of the River Bride and the Fairhill Stream(C07_000) to the tie in of the existing 450mm diameter pipe culvert and the proposed 900mm diameter pipe culvert (C07_108).

1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and Schedules.

The map displays the Fair Hill area in Dublin, Ireland. Key features include the Fair Hill Reservoir, Fair Hill Cemetery, and the Fair Hill Estate. A red rectangle highlights a specific area of interest, and a north arrow is present in the top right corner. The map also shows various streets, including the N20 and R63, and several public facilities such as schools and a hospital.

	Watercourse
	Channel Centreline, Reference (C06) and Chainage (300m)
	Photomontage (Location, Orientation and No.)
	Proposed Flood Defence Wall
	Repair/Reconstruct Existing Wall
	Interference Reference
	Location and Reference of Cross Section
50	Proposed Works Chainage (m)

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Ove Arup & Partners Ireland Ltd.
15 Oliver Plunkett Street,
Cork, Ireland.

Tel +353 (0)21 4277670
Fax +353 (0)21 4272345

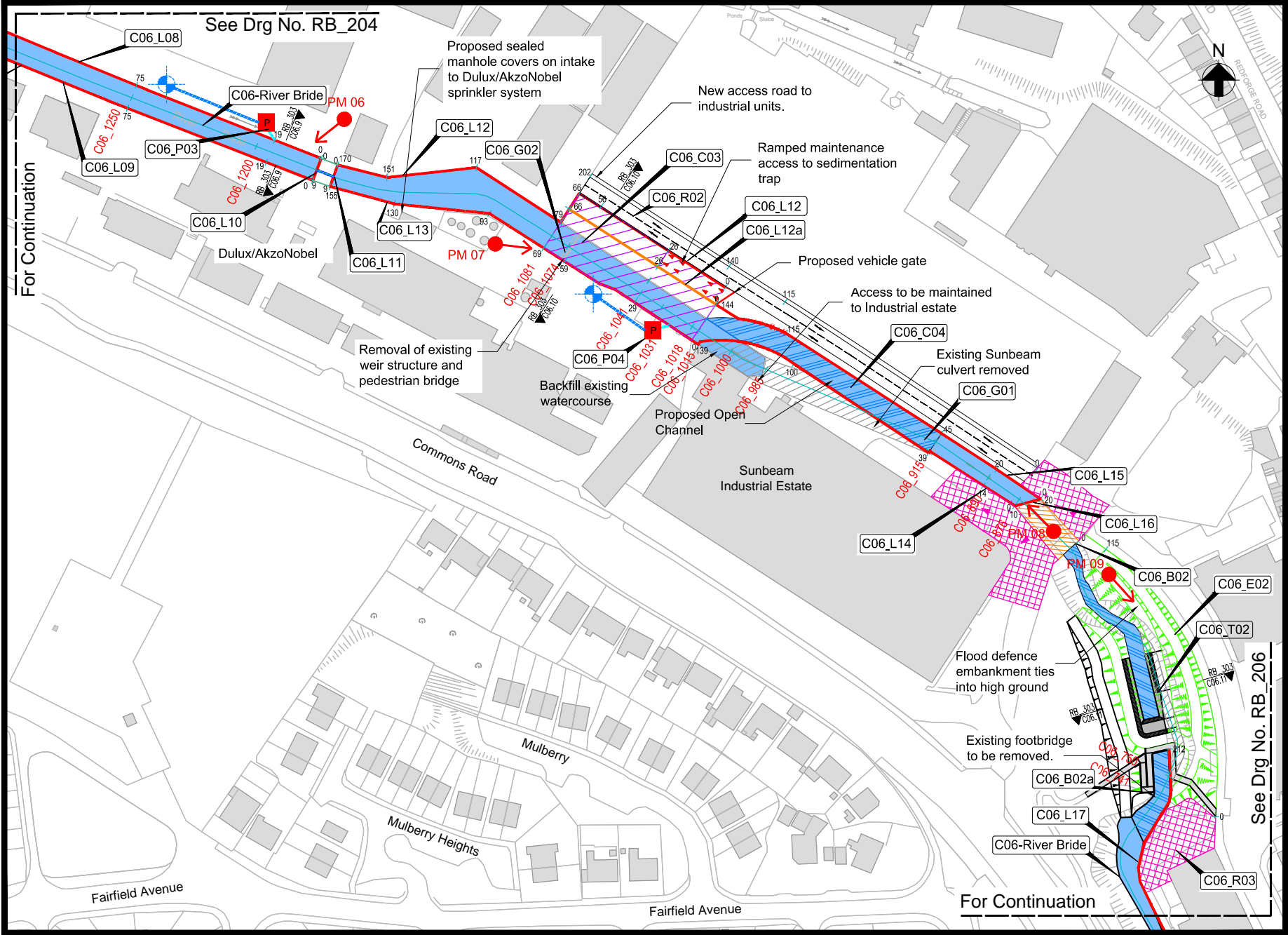
24 Grove Island,
Corbally,
Co Limerick,
Ireland.

Tel. + 353 (0) 61 345463
Fax. + 353 (0) 61 280146

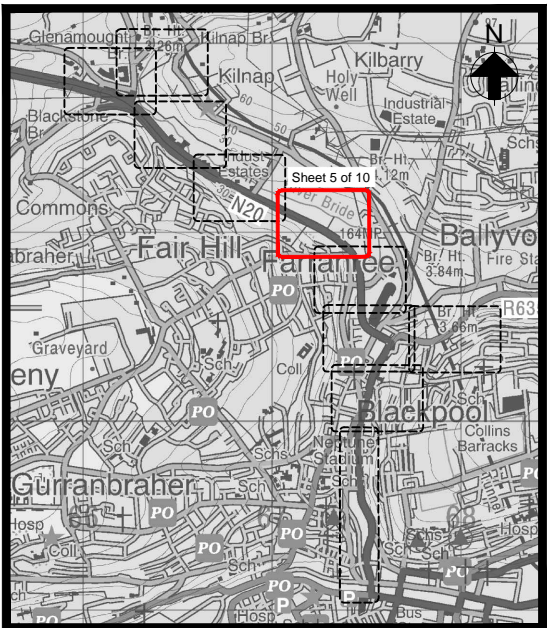


River Bride (Blackpool) Certified Drainage Scheme

Issued for Exhibition November 2015



Location Plan



Key Plan

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Key to Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3

Notes:

- Do not scale from drawing.
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Channel Centreline, Reference (C06) and Chainage (m)

Photomontage (Location, Orientation and No.)

Proposed Flood Defence Wall

Reconstruct/Repair Existing Wall

Proposed Retaining Wall

Interference Reference

Location and Reference of Cross Section

Proposed Manhole (Surface Water)

Proposed Drain (Surface Water)

Proposed Pumping Station (Surface Water)

Proposed Rising Main (Surface Water)

Existing Culvert to be Retained

Proposed Regrading of Ground Levels

Proposed Sediment Trap

Watercourse

Proposed Open Channel

Proposed Backfill of Existing Watercourse

Proposed Flood Defence Embankment

Proposed New Bridge

Proposed Works Chainage (m)

Proposed Road and Footpath

Proposed Vehicle Access Gate

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of Proposed Works
C06_L08	-	19 to 75	Existing river wall to be raised to a height typically 0.65m above existing ground levels to flood defence level (16.80mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L09	-	19 to 75	Existing river wall to be raised to a height typically 0.45m above existing ground levels to flood defence level (16.80mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L08	-	0 to 19	Existing river wall to be raised to a height typically 0.94m above existing ground levels to flood defence level (16.58mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L09	-	0 to 19	Existing river wall to be raised to a height typically 0.68m above existing ground levels to flood defence level (16.58mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L10	-	0 to 9	Existing bridge parapet wall to be raised to a height typically 0.73m above existing ground levels to flood defence level (16.58mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_P03	1200	-	Proposed surface water overflow pump station, collector drain, overflow manhole and rising main to operate during a flood event at C06_1200. All outlets to be fitted with non-return valves.
C06_L11	-	0 to 9	Formalise and repair existing bridge parapet wall to flood defence level (16.03mOD), where necessary.
C06_L12	-	56 to 170	Proposed new wall to be constructed and existing river wall to be raised to a height typically 1.27m above existing ground levels to flood defence level (16.03mOD). The proposal to raise the existing wall is subject to structural assessment. All drainage outfalls to be fitted with non-return valves.
C06_L13	-	59 to 155	Formalise and repair existing wall to flood defence level (16.03mOD), where necessary. All drainage outfalls to be fitted with non-return valves.
C06_L13	-	0 to 59	Formalise and repair existing wall to flood defence level (15.65mOD), where necessary. All drainage outfalls to be fitted with non-return valves.
C06_L12	-	0 to 56	Proposed reinforced concrete flood defence wall to be constructed to a height typically 0.88m above existing ground levels to flood defence level (15.65mOD). All drainage outfalls to be fitted with non-return valves.
C06_L12a	-	0 to 66	Proposed perimeter toe sheet piles to retain access to the proposed sediment trap.
C06_P04	1031	-	Proposed surface water overflow pump station, collector drain, overflow manhole and rising main to operate during a flood event at C06_1031. All outlets to be fitted with non-return valves.
C06_C03	1018 to 1081	-	Proposed sediment trap to be 63m long and 25m wide with maintenance access platform and ramp from C06_1041 to C06_1081. Rock weirs to be constructed at 20m centres. Proposed perimeter toe sheet piles to retain sediment basin.
C06_G02	1074	-	Remove existing pedestrian bridge and weir structure at C06_1074.
C06_R02	-	0 to 202	Proposed new access road and footpath 202m long x 9m wide. Locally raise road to flood defence level (15.31mOD) between chainage 115 and 140m.
C06_C04	915 to 1015	-	Removal of the existing Sunbeam culvert and replace with new re-aligned walled open channel 100m long x 8.5m wide from C06_915 to C06_1015.
C06_L14	-	39 to 139	Proposed reinforced concrete flood defence wall to be constructed to a height typically 0.93m above existing ground levels to flood defence level (15.31mOD) to form a new open channel. All drainage outfalls to be fitted with non-return valves.
C06_L14	-	0 to 39	Proposed reinforced concrete flood defence wall to be constructed to a height typically 0.71m above existing ground levels to flood defence level (15.12mOD). All drainage outfalls to be fitted with non-return valves.
C06_L15	-	0 to 45	Proposed reinforced concrete flood defence wall to be constructed to a height typically 0.31m above existing ground levels to flood defence level (15.12mOD). Existing culvert connection and weir to be sealed up. All drainage outfalls to be fitted with non-return valves.
C06_L15	-	45 to 144	Proposed reinforced concrete flood wall to be constructed to a height typically 0.50m above existing ground levels to flood defence level (15.31mOD) to form a new open channel. All drainage outfalls to be fitted with non-return valves.
C06_L16	-	0 to 10	Proposed bridge parapet to be raised to a height typically 0.34m above existing ground levels to flood defence level (15.12mOD). Construct new access ramps to bridge, incorporating new reinforced concrete retaining walls where necessary. All drainage outfalls to be fitted with non-return valves.
C06_B02	-	0 to 20	Replace existing concrete bridge with a new reinforced concrete bridge. Bridge to be of 10.50m clear span and 20m wide deck. Soffit level of new bridge to be 14.85mOD. Construct new access ramps to bridge, incorporating new reinforced concrete retaining walls where necessary.
C06_E02	-	0 to 115	Proposed flood defence embankment to be constructed typically 12m wide and to a height of 1.15m above existing ground levels to flood defence level (14.65mOD). Flood defence embankment to tie into high ground downstream of Sunbeam Industrial Estate bridge and into the proposed flood defence wall at Blackpool Retail Park.
C06_T02	750	-	Proposed trash screen to be constructed adjacent to Blackpool Retail Park.
C06_R03	-	-	Existing ground to be regraded to provide pedestrian access over the proposed flood embankment into the park to flood defence level (14.65mOD). Ramp to be graded at a maximum slope of 1:20.
C06_B02a	741	-	Existing pedestrian footbridge to be removed.
C06_L17	-	0 to 212	Proposed reinforced concrete flood defence wall to be constructed to a height typically 1.53m above existing ground levels to flood defence level (14.65mOD). All drainage outfalls to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to upstream of Rose Cottage (C06-2623).

Drg. No. RB_205 Proposed Flood Defences - Plan Layout (Sheet 5 of 10)

ARUP

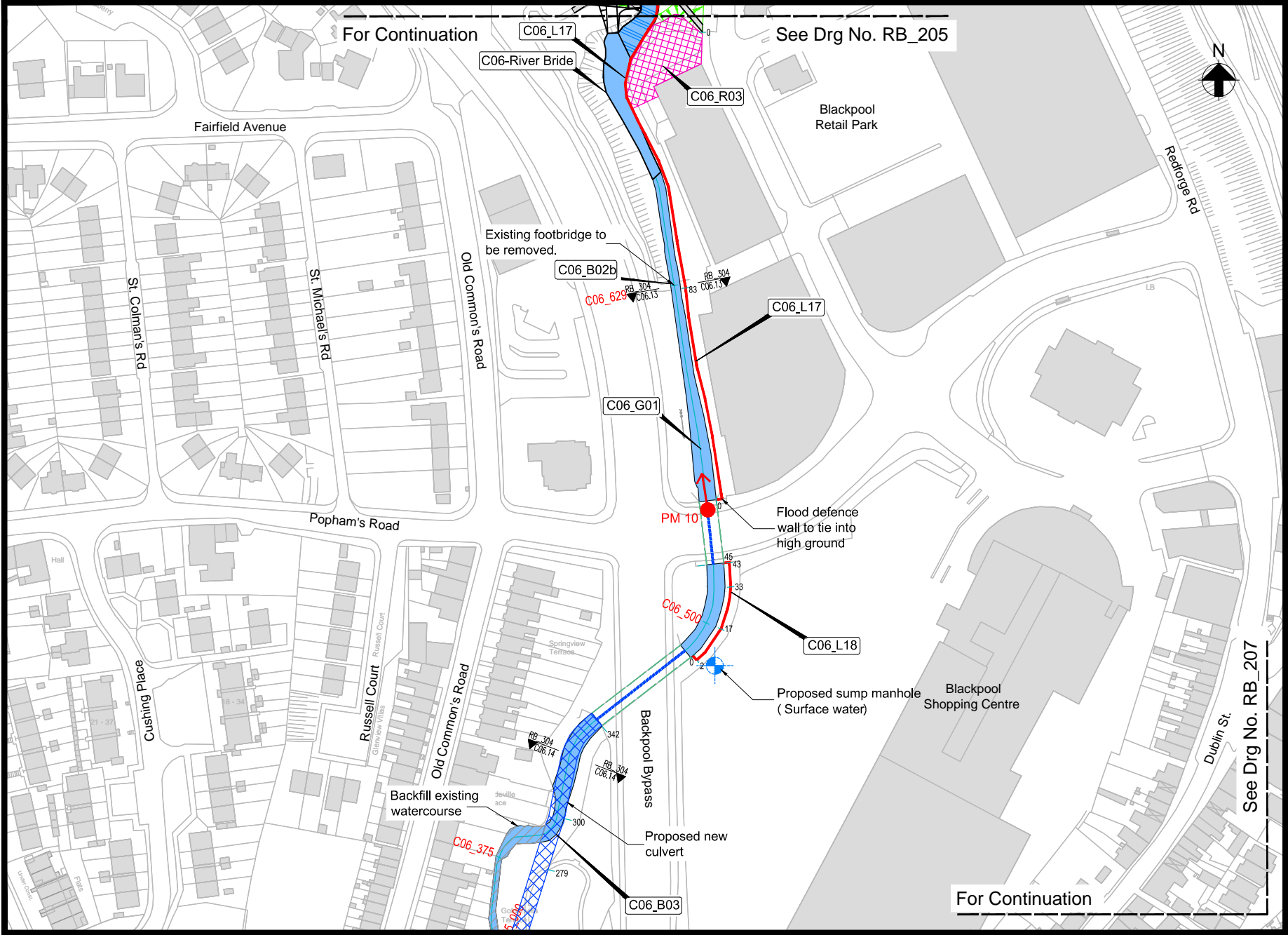
24 Grove Island, Corbally, Co Limerick, Ireland.

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51 St. Stephen's Green, Dublin 2, Ireland.

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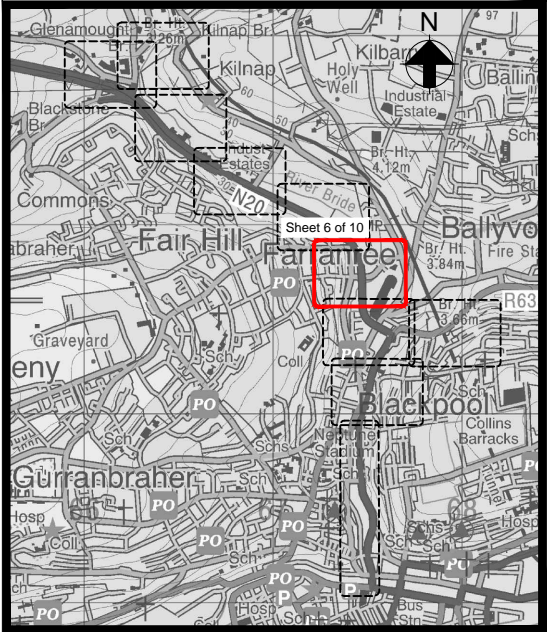
Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of New Works
C06_R03	-	-	Existing ground to be regraded to provide pedestrian access over the proposed flood defence embankment into the park to flood defence level (14.65mOD). Ramp to be graded at a maximum slope of 1:20.
C06_L17	-	0 to 212	Proposed reinforced concrete flood defence wall to be constructed to a height typically 1.53m above existing ground levels to flood defence level (14.65mOD). All drainage outfalls to be fitted with non-return valves.
C06_B02b	629	-	Existing pedestrian footbridge to be removed.
C06_L18	-	0 to 45	Proposed reinforced concrete flood defence wall to be constructed to a height typically 1.53m above existing ground levels to flood defence level (13.80mOD). All drainage outfalls to be fitted with non-return valves. Works to include construction of a new surface water sump manhole with associated local collector drain adjacent to the new flood defence wall.
C06_B03	-	0 to 342	Replace existing channel with a proposed reinforced concrete culvert to be constructed downstream of Blackpool Bypass through Orchard Court. Proposed culvert to be of internal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to upstream of Rose Cottage (C06-2623).

- Notes:
- Do not scale from drawing.
 - Proposed works geometry and extents are subject to detailed design.
 - This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and Schedules.

Location Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3



Keyplan

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Key to Plan

- C06_300
- PM 01
- Proposed Flood Defence Wall
- C06_L01
- Location and Reference of Cross Section
- Proposed Backfill of Existing Watercourse
- Proposed Flood Defence Embankment

- Existing Culvert to be Retained
- Proposed Regrading of Ground Levels
- Watercourse
- Proposed Open channel
- Proposed Reinforced Concrete Culvert
- Proposed Works Chainage (m)
- Proposed Sump Manhole (Surface Water)

Drg. No. RB_206 Proposed Flood Defences - Plan Layout (Sheet 6 of 10)

ARUP

Ove Arup & Partners Ireland Ltd.,
15 Oliver Plunkett Street,
Cork,
Ireland.
Tel: +353 (0)21 4277670
Fax: +353 (0)21 4272345

JBA
consulting

24 Grove Island,
Corbally,
Co Limerick,
Ireland.
Tel: +353 (0) 61 345483
Fax: +353 (0) 61 280146

Cork City Council,
City Hall, Anglesea Street,
Cork, Ireland.

Tel: +353 (0) 21 4960222
Fax: +353 (0) 21 4314238

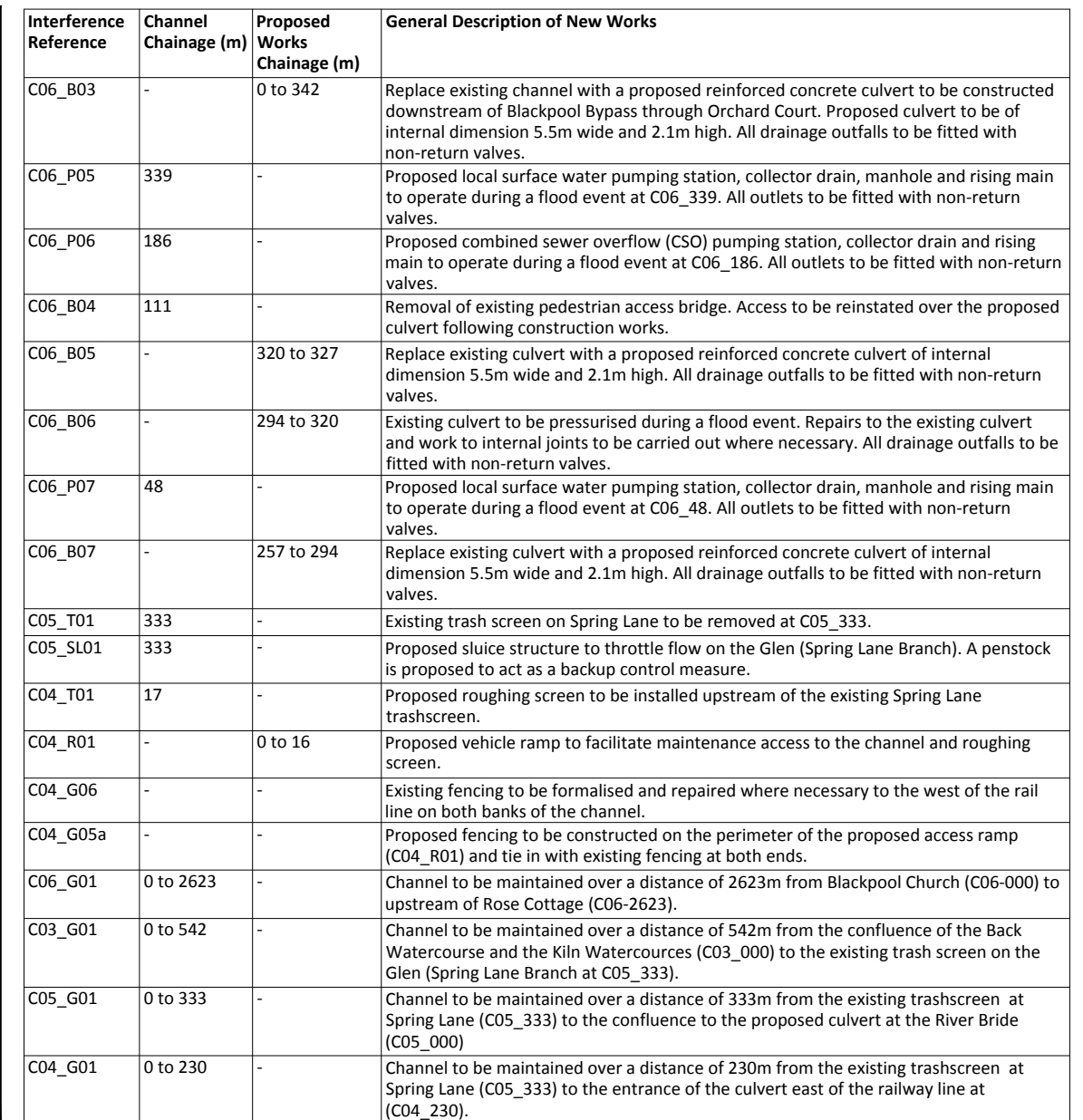
Cork County Council Headquarters,
County Hall,
Carrigrohane Road,
Cork, Ireland.

Tel: +00 353 (0) 21 4276891
Fax: +00 353 (0) 21 4276321

OPW

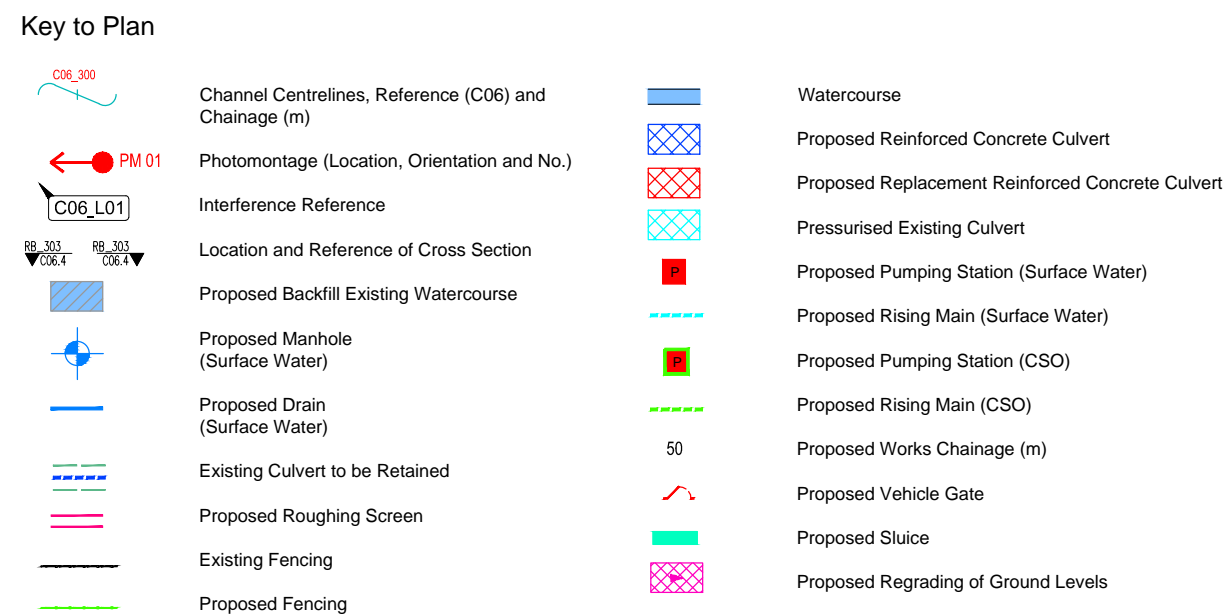
51 St. Stephen's Green,
Dublin 2,
Ireland.
Tel: +353 (0) 1 647 6000
Fax: +353 (0) 1 661 0747

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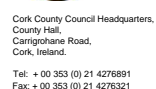
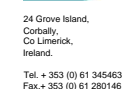
1. Do not scale from drawing.
2. Proposed works geometry and extents are subject to detailed design.
3. This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and Schedules.

Scale 1:1,000 at A1
Scale 1:2,000 at A3



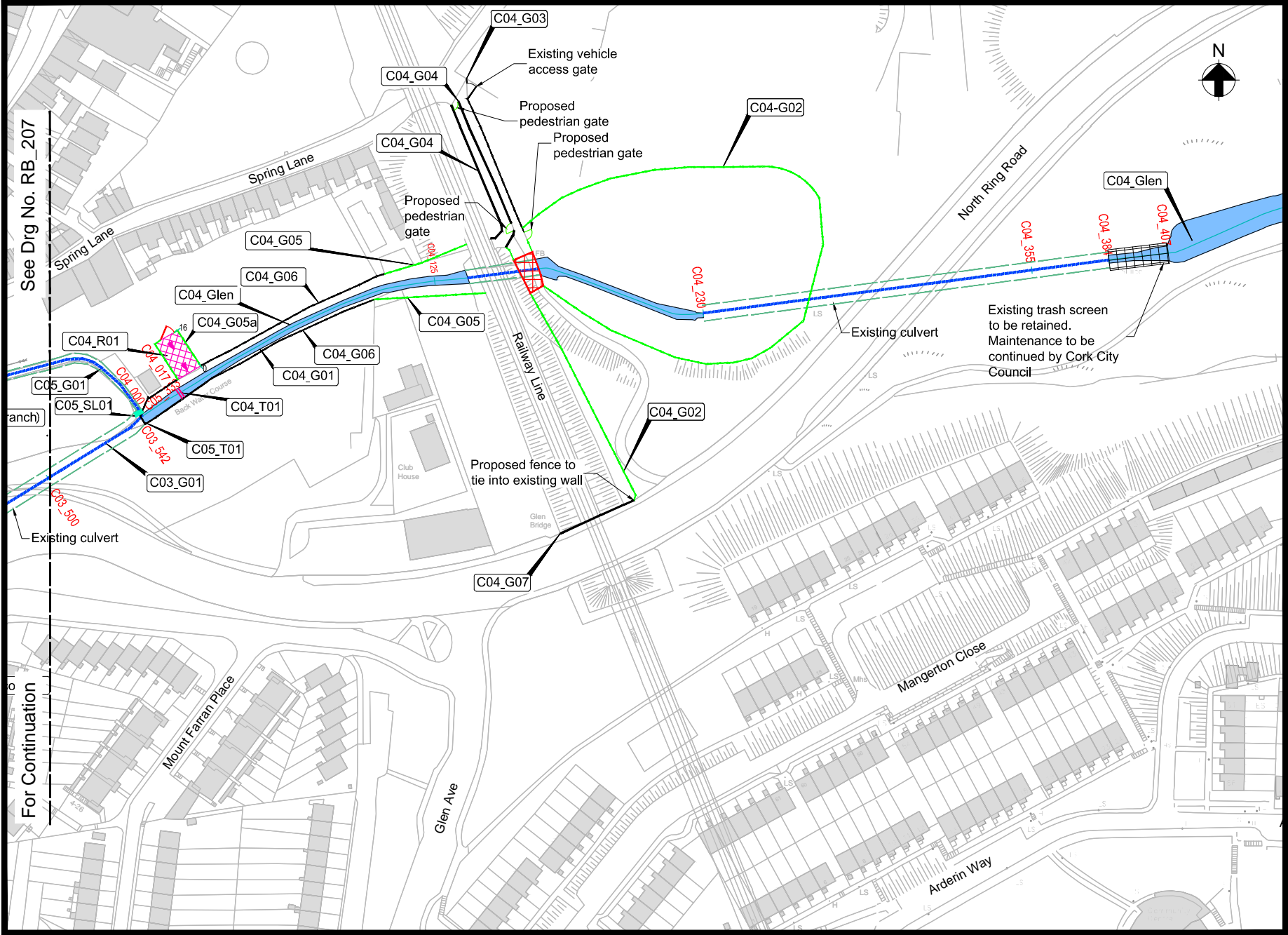
Scale 1:20,000 at A1
Scale 1:40,000 at A3

Drg. No. RB_207 Proposed Flood Defences - Plan Layout (Sheet 7 of 10)



River Bride (Blackpool) Certified Drainage Scheme

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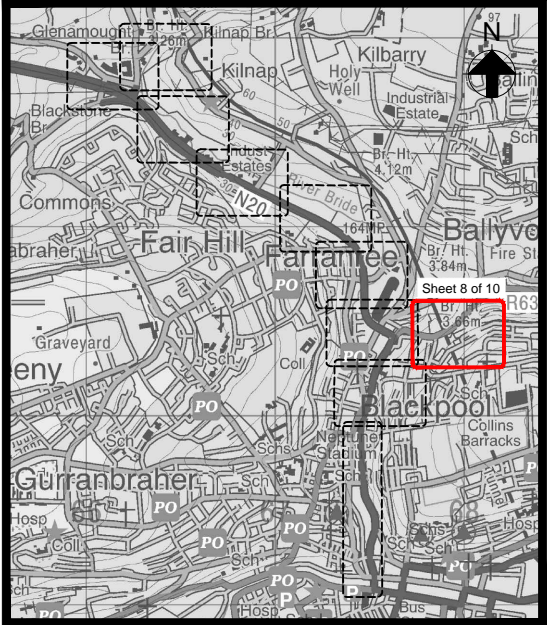
Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of New Works
C04_G02	160 to 270	-	Proposed fencing to be constructed to the east of the rail line and to tie into the existing pedestrian footbridge. A proposed pedestrian gate north of the existing footbridge will provide access to the channel.
C04_G03	150 to 160	-	Existing fencing to be formalised and repaired where necessary. Existing fencing to tie into a proposed pedestrian gate and proposed fencing north west of the existing pedestrian bridge.
C04_G04	140 to 160	-	Existing wall to be formalised and repaired where necessary. Existing wall to tie into a proposed pedestrian gate and proposed fencing north west of the existing pedestrian bridge.
C04_G05	100 to 140	-	Proposed fencing to be constructed along both banks of the channel to the west of the rail line.
C04_G05a	20 to 30	-	Proposed fencing to be constructed around the proposed access ramp (C04_R01) and tie in with existing fencing at both ends.
C04_G06	0 to 105	-	Existing fencing to be formalised and repaired where necessary to the west of the rail line on both banks of the channel.
C04_G07	136 to 155	-	Existing wall to be formalised and minor repairs carried out where necessary. Existing wall to tie into proposed fencing on the North Ring Road bridge.
C04_R01	-	0 to 16	Proposed vehicle ramp to facilitate maintenance access to the channel and roughing screen.
C04_T01	17	-	Proposed roughing screen to be installed upstream of the existing Spring Lane trashscreen.
C05_SL01	333	-	Proposed sluice structure to throttle flow on the Glen (Spring Lane Branch). A penstock is proposed to act as a backup control measure.
C05_T01	333	-	Existing trash screen on Spring Lane to be removed at C05_333.
C03_G01	0 to 542	-	Channel to be maintained over a distance of 542m from Maddens Buildings (C03_000) to the existing culvert inlet at C03_542.
C05_G01	0 to 333	-	Channel to be maintained over a distance of 333m from the existing trashscreen at Spring Lane (C05_333) to the confluence with the proposed River Bride culvert (C05_000)
C04_G01	0 to 230	-	Channel to be maintained over a distance of 230m from the culvert inlet at Spring Lane (C04_000) to the culvert outfall downstream of the North Ring Road (C04_230).

- Notes:
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Location Plan

0 5 10 20 50 Metres

Scale 1:1,000 at A1
Scale 1:2,000 at A3



Key to Plan

- | | | | |
|--|---|--|------------------------------|
| | Channel Centrelines, Reference (C06) and Chainage (m) | | Existing Trashscreen |
| | Interference Reference | | Existing Fencing |
| | Existing Culvert to be Retained | | Proposed Fencing |
| | Proposed Roughing Screen | | Proposed Pedestrian Gate |
| | Watercourse | | Proposed Vehicle Access Gate |
| | Proposed Bridge Fencing (to enclose the Existing Pedestrian Bridge) | | Existing Vehicle Access Gate |
| | Proposed Works Chainage (m) | | Proposed Sluce |
| | Proposed Regrading of Ground Levels | | Existing Wall |

Key Plan

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Drg. No. RB_208 Proposed Flood Defences - Plan Layout (Sheet 8 of 10)

ARUP

Ove Arup & Partners Ireland Ltd.,
15 Oliver Plunkett Street,
Cork,
Ireland.
Tel: +353 (0) 21 4277670
Fax: +353 (0) 21 4272345

JBA
consulting

24 Grove Island,
Cork,
Ireland.
Tel: +353 (0) 21 345483
Fax: +353 (0) 21 280146

Cork City Council,
City Hall, Anglesea Street,
Cork,
Ireland.

Tel: +353 (0) 21 4960222
Fax: +353 (0) 21 4314238

Cork County Council Headquarters,
County Hall, Carrigrohane Road,
Cork,
Ireland.

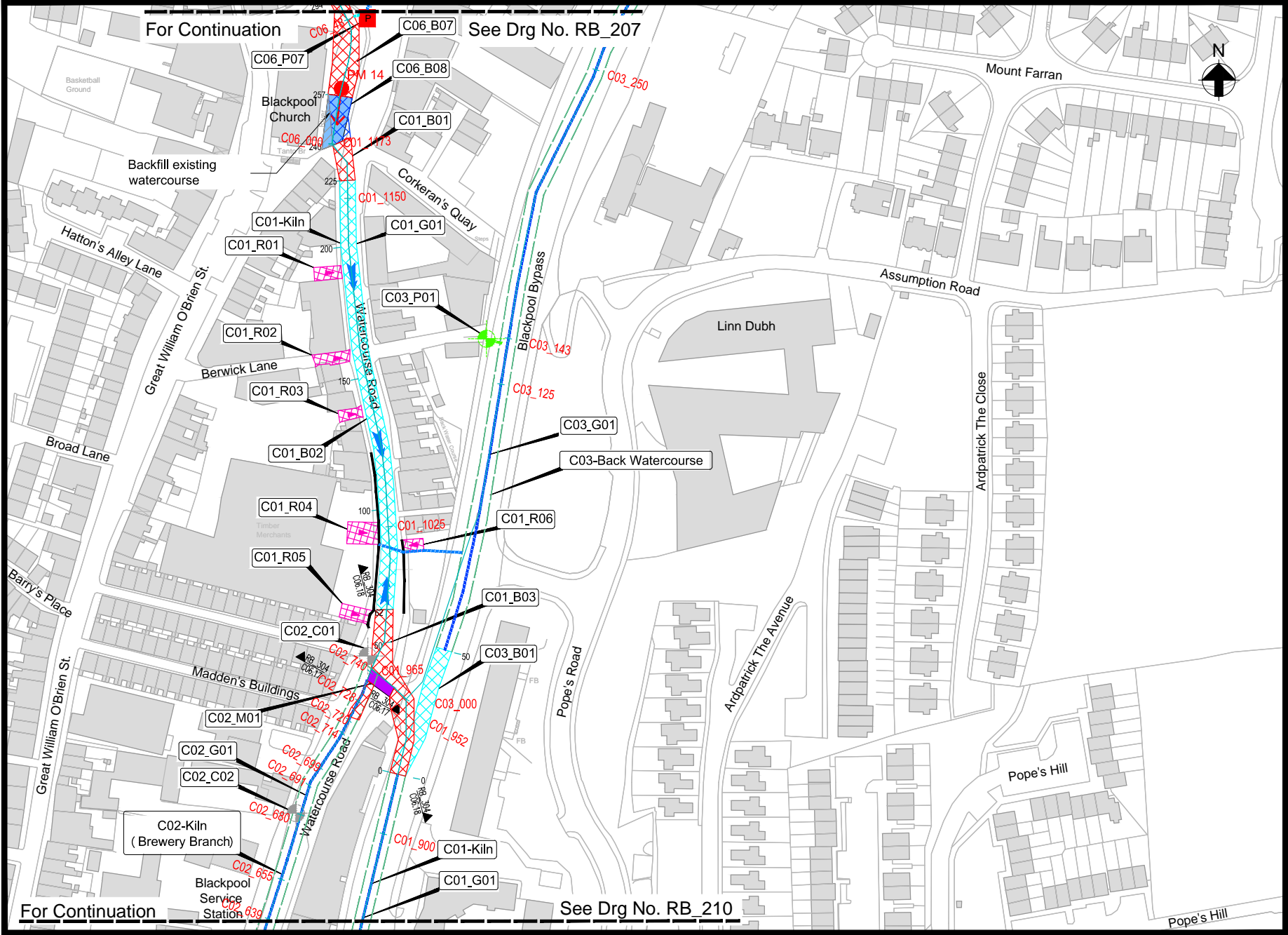
Tel: +353 (0) 21 4276891
Fax: +353 (0) 21 4276321

OPW
Ireland

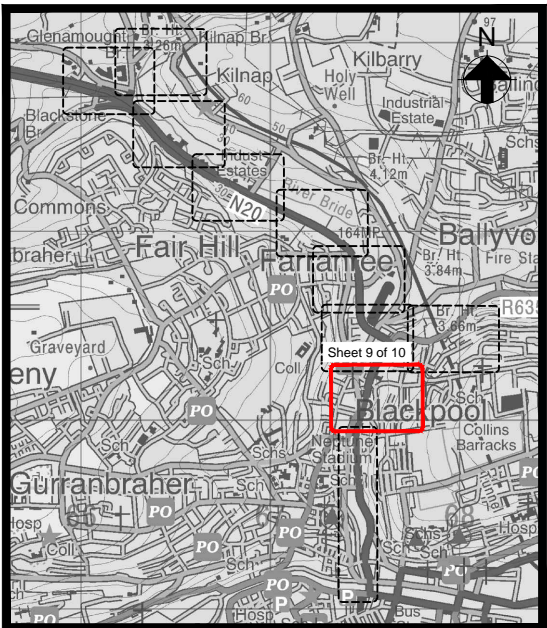
51 St. Stephen's Green,
Dublin 2,
Ireland.
Tel: +353 (0) 1 647 6000
Fax: +353 (0) 1 661 0747

River Bride (Blackpool) Certified Drainage Scheme

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Location Plan



Key Plan

Scale 1:20,000 at A1
Scale 1:40,000 at A3

Key to Plan

- Channel Centrelines, Reference (C06) and Chainage (m)
- Interference Reference
- Location and Reference of Cross Section
- Photomontage (Location, Orientation and No.)
- Existing Culvert to be Retained
- Proposed Flow Control Feature
- Proposed Works Chainage (m)
- Watercourse
- Proposed Regrading of Ground Levels
- Proposed Surface Water Overland Flow Route
- Proposed Replacement Reinforced Concrete Culvert
- Proposed Reinforced Concrete Culvert
- Pressurised Existing Culvert
- Proposed Backfill of Existing Watercourse
- Proposed Pumping Station (Surface Water)
- Proposed Rising Main (Surface Water)
- Proposed Drain (Surface Water)
- Proposed Drainage Kerb (Surface Water)
- Proposed CSO Overflow Manhole
- Existing Manhole

Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of New Works
C06_P07	48	-	Proposed local surface water pumping station, collector drain, manhole and rising main to operate during a flood event at C06_48. All outlets to be fitted with non-return valves.
C06_B07	-	257 to 294	Replace existing culvert with proposed reinforced concrete culvert of internal dimension 5.5m wide x 2.1m high. All drainage outfalls to be fitted with non-return valves.
C06_B08	-	240 to 257	Replace existing open channel with a proposed reinforced concrete culvert at Blackpool Church. Proposed culvert to be of internal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with non-return valves.
C01_B01	-	225 to 240	Replace existing culvert with a proposed tapered reinforced concrete culvert section from 5.5m and 2.1m high to 4.8m wide and 1.6m high. New culvert to be tied into existing culvert on Watercourse Road. All drainage outfalls to be fitted with non-return valves.
C01_B02	-	62 to 225	Existing culvert to be pressurised during a flood event. Repairs to the existing culvert and work to internal joints to be carried out where necessary. All drainage outfalls to be fitted with non-return valves.
C01_B03	-	0 to 62	Reconstruction of existing culvert section to optimise flow distribution between the Kiln culvert (C01) and the Brewery Branch culvert (C02). All drainage outfalls to be fitted with non-return valves.
C02_M01	740	-	Proposed flow control feature to be constructed on the confluence of the Kiln and the Brewery Branch at C02_740 to limit flow in the Brewery Branch to existing capacity.
C03_P01	143	-	Existing CSO to be diverted into the Back Watercourse culvert (C03) during a flood event.
C03_B01	-	0 to 50	Existing culvert to be pressurised during a flood event. Repairs to the existing culvert and work to internal joints to be carried out where necessary. All drainage outfalls to be fitted with non-return valves.
C06_G01	0 to 2623	-	Channel to be maintained over a distance of 2623m from Blackpool Church (C06_000) to upstream of Rose Cottage (C06_2623).
C01_R01	-	-	Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to the Madden's Buildings junction.
C01_R02	-	-	Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Maddens Building's junction.
C01_R03	-	-	Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.
C01_R04	-	-	Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.
C01_R05	-	-	Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.
C01_R06	-	-	Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.
C02_C01	691 to 699	-	Local masonry repairs to be carried out within the existing culvert at C02_695. Access for these works to be gained from the existing manhole at C02_740.
C02_C02	625 to 691	-	Local masonry repairs to be carried out within the existing culvert at C02_639 and C02_655. Access for these works to be gained from the existing manhole at C02_680.
C03_G01	0 to 542	-	Channel to be maintained over a distance of 542m from Maddens Buildings (C3_000) to the existing culvert inlet at C03_542.
C01_G01	227 to 1173	-	Channel to be maintained over a distance of 946m from the confluence of the Kiln and the Kiln Brewery Branch (C01_227) to Blackpool Church (C01_1173).
C02_G01	0 to 740	-	Channel to be maintained over a distance of 740m from the confluence of the Kiln (Brewery Branch) and the Kiln (C02_000) to Madden's Buildings (C02_740).

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Drg. No. RB_209 Proposed Flood Defences - Plan Layout (Sheet 9 of 10)

ARUP

Ove Arup & Partners Ireland Ltd.,
15 Oliver Plunkett Street,
Cork,
Ireland.
Tel: +353 (0)21 4277670
Fax: +353 (0)21 4272345

JBA
consulting

24 Grove Island,
County Kerry,
Cork, Ireland.
Tel: +353 (0) 21 4966222
Fax: +353 (0) 21 4966222

Cork City Council,
City Hall, Anglesea Street,
Cork, Ireland.
Tel: +353 (0) 21 4314235

Cork County Council Headquarters,
County Hall, Carrigrohane Road,
Cork, Ireland.
Tel: +353 (0) 21 4276891
Fax: +353 (0) 21 4276321

OPW
Office of Public Works

51 St. Stephen's Green,
Dublin 2,
Ireland.
Tel: +353 (0) 1 647 6000
Fax: +353 (0) 1 661 0747