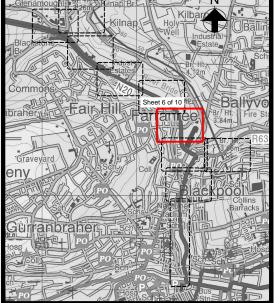


Location Plan Scale 1:1.000 at A1 Scale 1:2,000 at A3



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

Key to Plan C06_300 Channel Centrelines, Reference (C06) and Photomontage (Location, Orientation and No.) Proposed Flood Defence Wall C06_L01 Interference Reference RB_303 C06.9 Location and Reference of Cross Section Proposed Backfill of Existing Watercourse AAA

Proposed Flood Defence Embankment

 $\overline{\mathbf{v}}$

Existing Culvert to be Retained

Proposed Regrading of Ground Levels

Watercourse

50

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)









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Existing ground to be regraded to provide pedestrian access over the proposed flood

Proposed reinforced concrete flood defence wall to be constructed to a height typically

Proposed reinforced concrete flood defence wall to be constructed to a height typically

Replace existing channel with a proposed reinforced concrete culvert to be constructed downstream of Blackpool Bypass through Orchard Court. Proposed culvert to be of

Channel to be maintained over a distance of 2623m from Blackpool Church (C06-000) to

defence embankment into the park to flood defence level (14.65mOD). Ramp to be

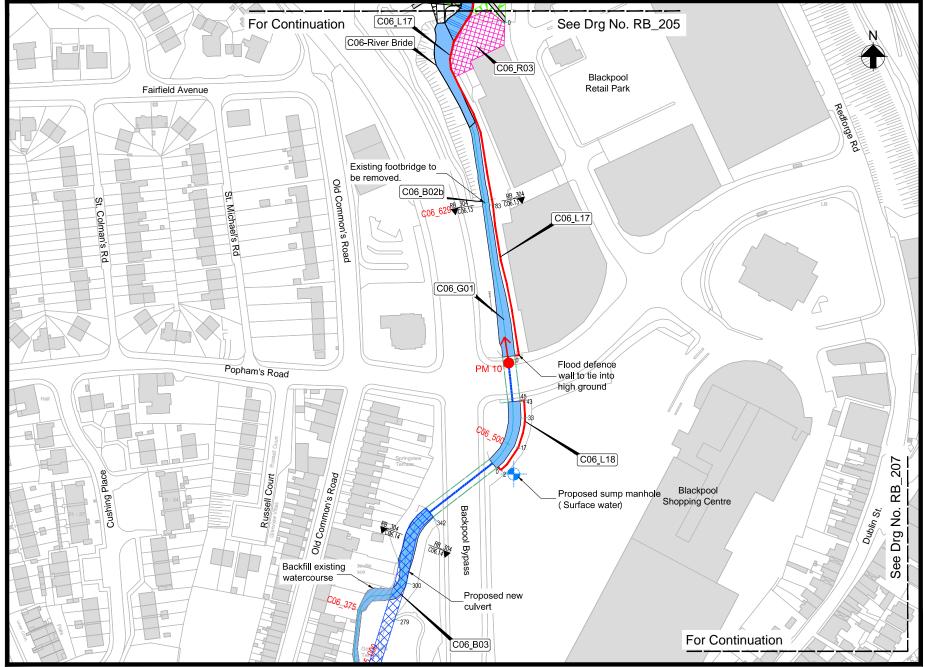
1.53m above existing ground levels to flood defence level (14.65mOD). All drainage outfalls to be fitted with non-return valves.

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

internal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with



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Do not scale from drawing.

0 to 2623

Interference Channel

629

Reference

C06_R03

C06_L17

C06_B02b

C06_L18

C06_B03

C06_G01

Proposed works geometry and extents are subject to detailed design.

0 to 212

0 to 45

0 to 342

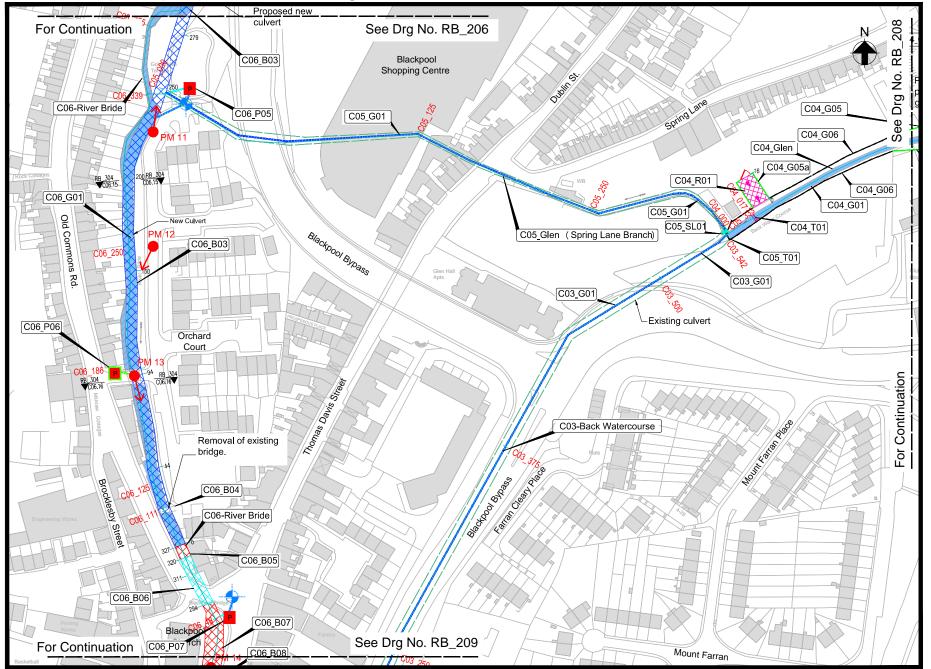
This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition Drawings and Schedules.

non-return valves.

graded at a maximum slope of 1:20.

upstream of Rose Cottage (C06-2623).

Existing pedestrian footbridge to be removed.



Location Plan

Fair

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

Key to Plan

rtoy to r lan			
C06_300	Channel Centrelines, Reference (C06) and Chainage (m)		Watercourse
PM 01	Photomontage (Location, Orientation and No.)		Proposed Reinforced Concrete Culvert Proposed Replacement Reinforced Concrete Culvert
C06_L01	Interference Reference		Pressurised Existing Culvert
RB_303 C06.4 RB_303 C06.4 ▼	Location and Reference of Cross Section Proposed Backfill Existing Watercourse	P	Proposed Pumping Station (Surface Water)
	Proposed Manhole		Proposed Rising Main (Surface Water)
_	(Surface Water) Proposed Drain	P	Proposed Pumping Station (CSO) Proposed Rising Main (CSO)
	(Surface Water)	50	Proposed Works Chainage (m)
300 300 300 300	Existing Culvert to be Retained Proposed Roughing Screen	\sim	Proposed Vehicle Gate
	Existing Fencing		Proposed Sluice Proposed Regrading of Ground Levels
	Proposed Fencing	KXXXI	Froposed Regrading of Ground Levels

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Interference Reference	Channel Chainage (m)	Proposed Works Chainage (m)	General Description of New Works
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_P05	339	-	Proposed local surface water pumping station, collector drain, manhole and rising main to operate during a flood event at C06_339. All outlets to be fitted with non-return valves.
C06_P06	186	-	Proposed combined sewer overflow (CSO) pumping station, collector drain and rising main to operate during a flood event at C06_186. All outlets to be fitted with non-return valves.
C06_B04	111	-	Removal of existing pedestrian access bridge. Access to be reinstated over the proposed culvert following construction works.
C06_B05	-	320 to 327	Replace existing culvert with a proposed reinforced concrete culvert of internal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with non-return valves.
C06_B06	-	294 to 320	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_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 a proposed reinforced concrete culvert of internal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with non-return valves.
C05_T01	333	-	Existing trash screen on Spring Lane to be removed at CO5_333.
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.
C04_T01	17	-	Proposed roughing screen to be installed upstream of the existing Spring Lane trashscreen.
C04_R01	-	0 to 16	Proposed vehicle ramp to facilitate maintenance access to the channel and roughing screen.
C04_G06	-	-	Existing fencing to be formalised and repaired where necessary to the west of the rail line on both banks of the channel.
C04_G05a	-	-	Proposed fencing to be constructed on the perimeter of the proposed access ramp (C04_R01) and tie in with existing fencing at both ends.
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).
C03_G01	0 to 542	-	Channel to be maintained over a distance of 542m from the confluence of the Back Watercourse and the Kiln Watercources (C03_000) to the existing trash screen on the Glen (Spring Lane Branch at C05_333).
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 to the proposed culvert at the River Bride (C05_000)
C04_G01	0 to 230	-	Channel to be maintained over a distance of 230m from the existing trashscreen at Spring Lane (C05_333) to the entrance of the culvert east of the railway line at (C04_230).

Scale 1:1,000 at A1

Scale 1:2,000 at A3

- 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_207 Proposed Flood Defences - Plan Layout (Sheet 7 of 10)



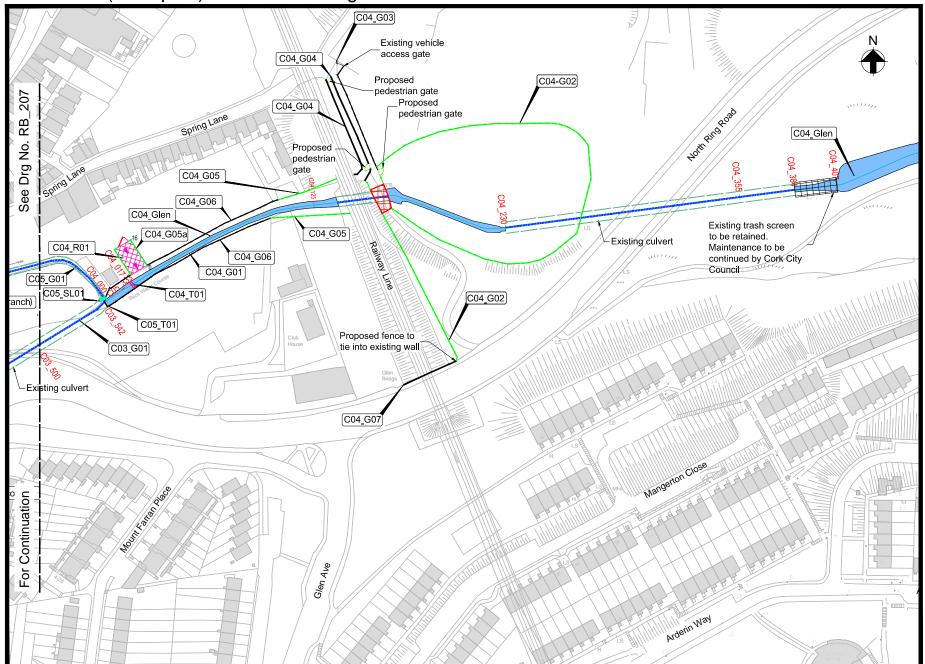






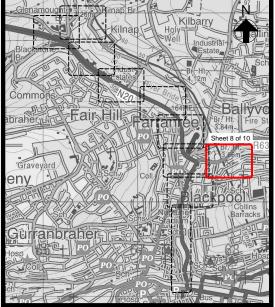


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Location Plan Scale 1:1,000 at A1 Scale 1:2,000 at A3

Proposed Regrading of Ground Levels



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

Key to Plan Channel Centrelines, Reference (C06) and **Existing Trashscreen** Chainage (m) Existing Fencing C06_L01 Interference Reference Proposed Fencing Existing Culvert to be Retained Proposed Pedestrian Gate Proposed Roughing Screen Proposed Vehicle Access Gate Watercourse Existing Vehicle Access Gate Proposed Bridge Fencing (to enclose the Existing Pedestrian Bridge) Proposed Sluice Existing Wall Proposed Works Chainage (m)

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Interference	Channel	Proposed	General Description of New Works
Reference	Chainage (m)	Works Chainage (m)	-
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 CO5_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).

- 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_208 Proposed Flood Defences - Plan Layout (Sheet 8 of 10)







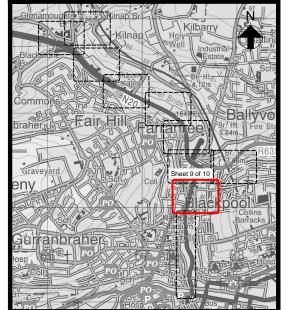




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C06_B07 See Drg No. RB_207 For Continuation C06_P07 Mount Farran Blackpoof³ C01_B01 Backfill existing watercourse C01-Kiln C01_G01 C01_R01 Assumption Road C03_P01 Linn Dubh C01_R02 C01_R03 C03_G01 C01_B02 C03-Back Watercourse C01_R04 C01_R06 C01_R05 C01_B03 C02_C01 C03_B01 C02_G01 Pope's Hill C02_C02 C02-Kiln (Brewery Branch) C01-Kiln C01_G01 Blackpool See Drg No. RB_210 For Continuation Pope's Hill

Location Plan Scale 1:1,000 at A1 Key to Plan



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



Scale 1:2,000 at A3

Proposed Replacement Reinforced Concrete Culvert

Proposed Reinforced Concrete Culvert

Proposed Backfill of Existing Watercourse

Proposed Pumping Station (Surface Water)

Proposed Rising Main (Surface Water)

Proposed Drainage Kerb (Surface Water)

Proposed Drain (Surface Water)

Proposed CSO Overflow Manhole

Existing Manhole

Pressurised Existing Culvert

Do not scale from drawing. Proposed works geometry and extents are subject to detailed design.

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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 (CO2_000) to Madden's Buildings (CO2_740).

This drawing should be read in conjunction with all other River Bride (Blackpool) Certified Drainage Scheme Exhibition

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



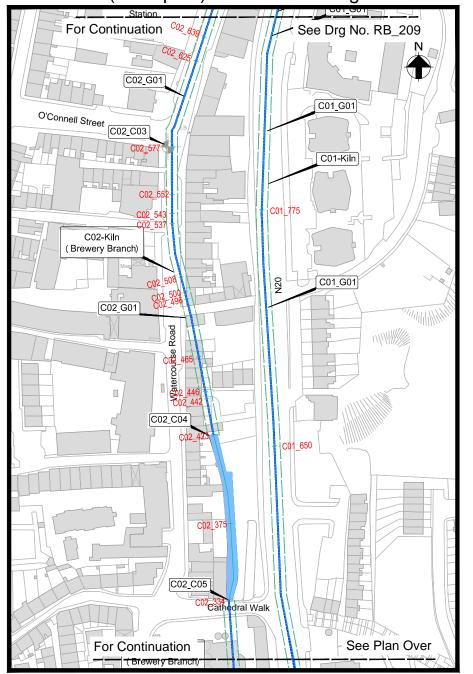


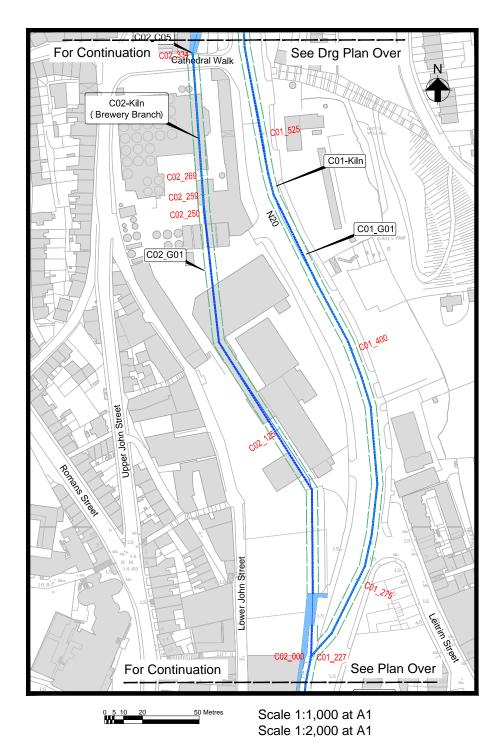




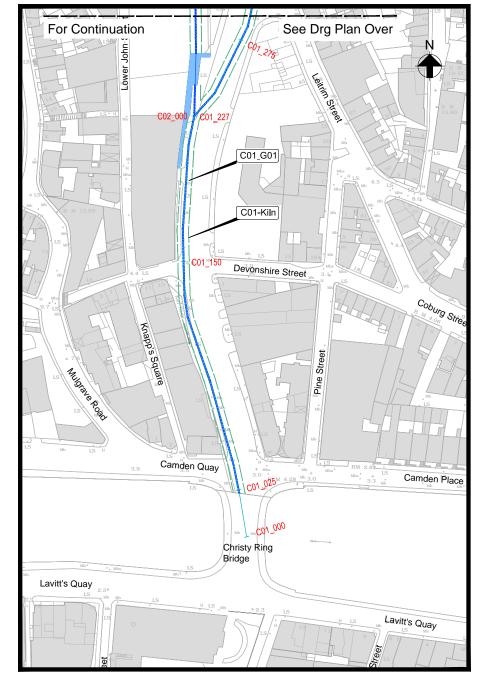


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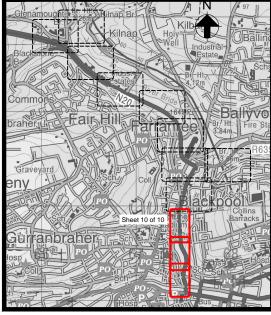




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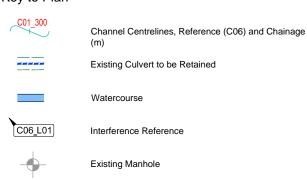


Location Plans



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

Key to Plan



Notes

- Do not scale from drawing.
- 2. 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.

Interference	Channel		General Description of New Works
Reference	Chainage (m)	Chainage (m)	
C02_C03	500 to 552	-	Local masonry repairs to be carried out within the existing culvert at C02_508, C02_510 and C02_543. Access for these works to be gained from the existing manhole at C02_577.
C02_C04	423 to 465	-	Local masonry repairs to be carried out within the existing culvert at C02_442 to C02_446. Access for these works to be gained from the existing culvert outfall at C02_423.
C02_C05	250 to 269	-	Local masonry repairs to be carried out within the existing culvert at C02_250 to C02_269. Access for these works to be gained from the existing culvert inlet at C02_334.
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 downstream confluence of the Kiln (Brewery Branch) to the Kiln (CO2_000) to the upstream confluence of the Kiln and the Back Watercourse at Madden's Buildings (CO2_740).

Drg. No. RB_210 Proposed Flood Defences - Plan Layout (Sheet 10 of 10)











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3 (0)21 4277670

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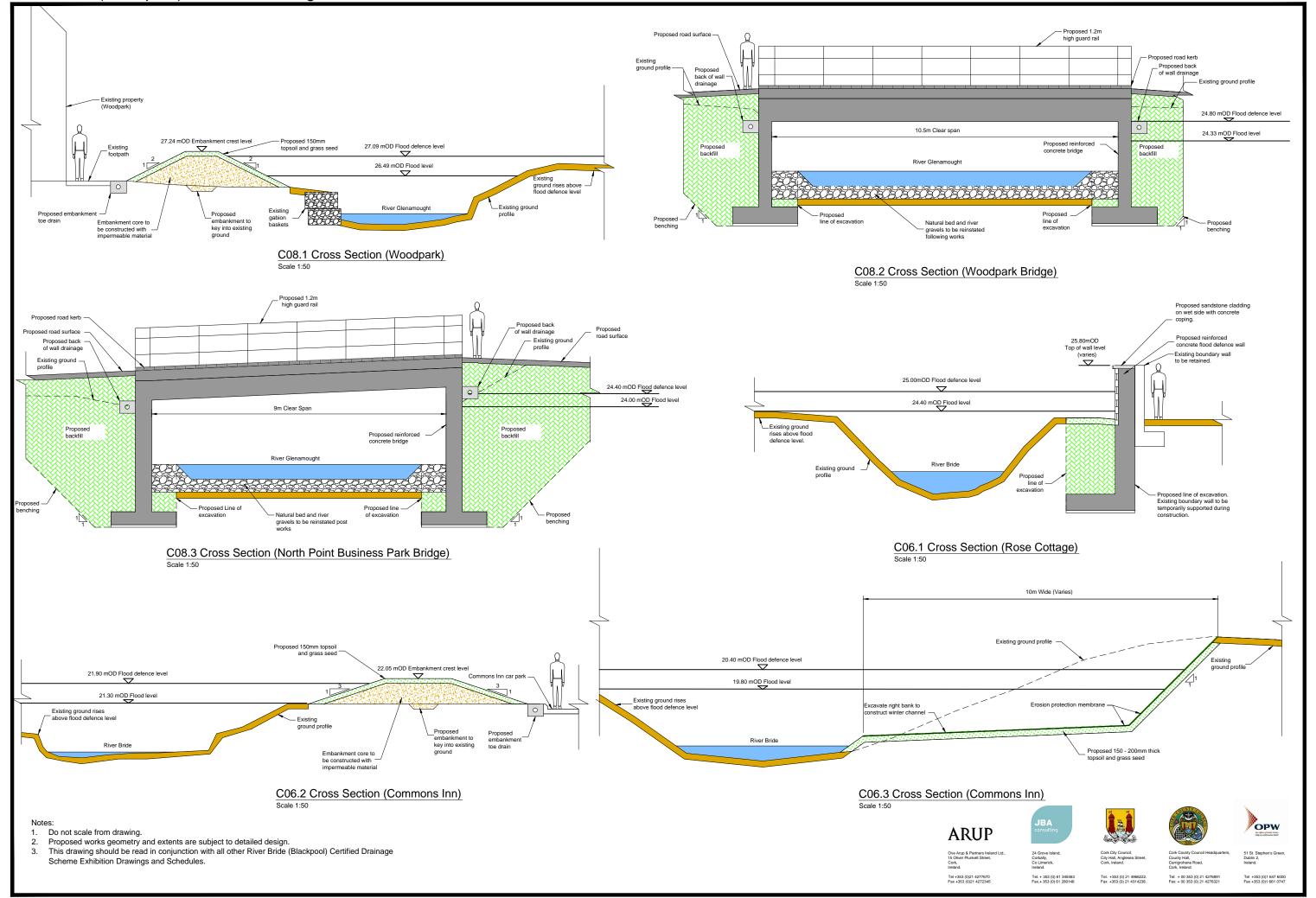
Tel. + 353 (0) 61 345463
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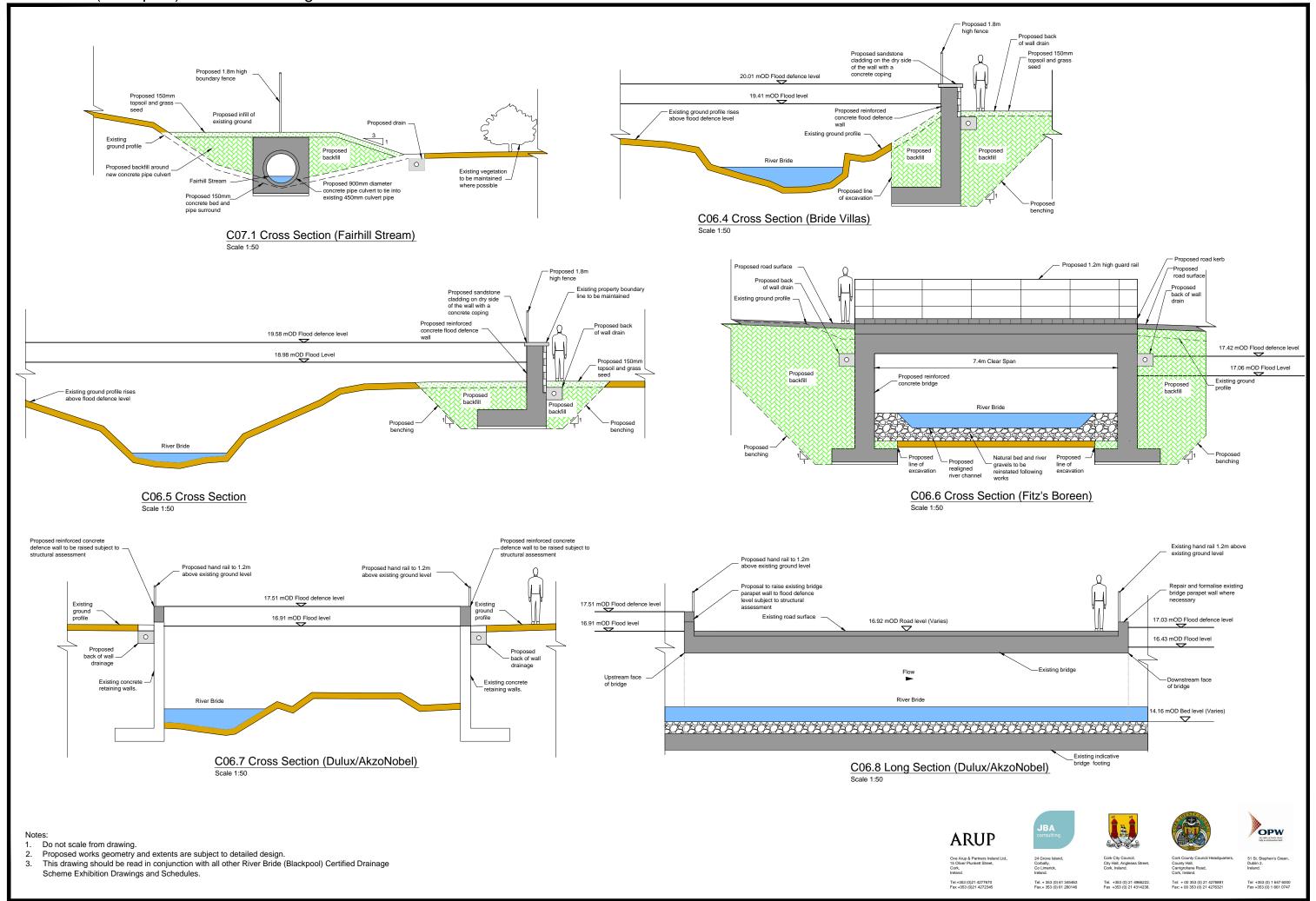
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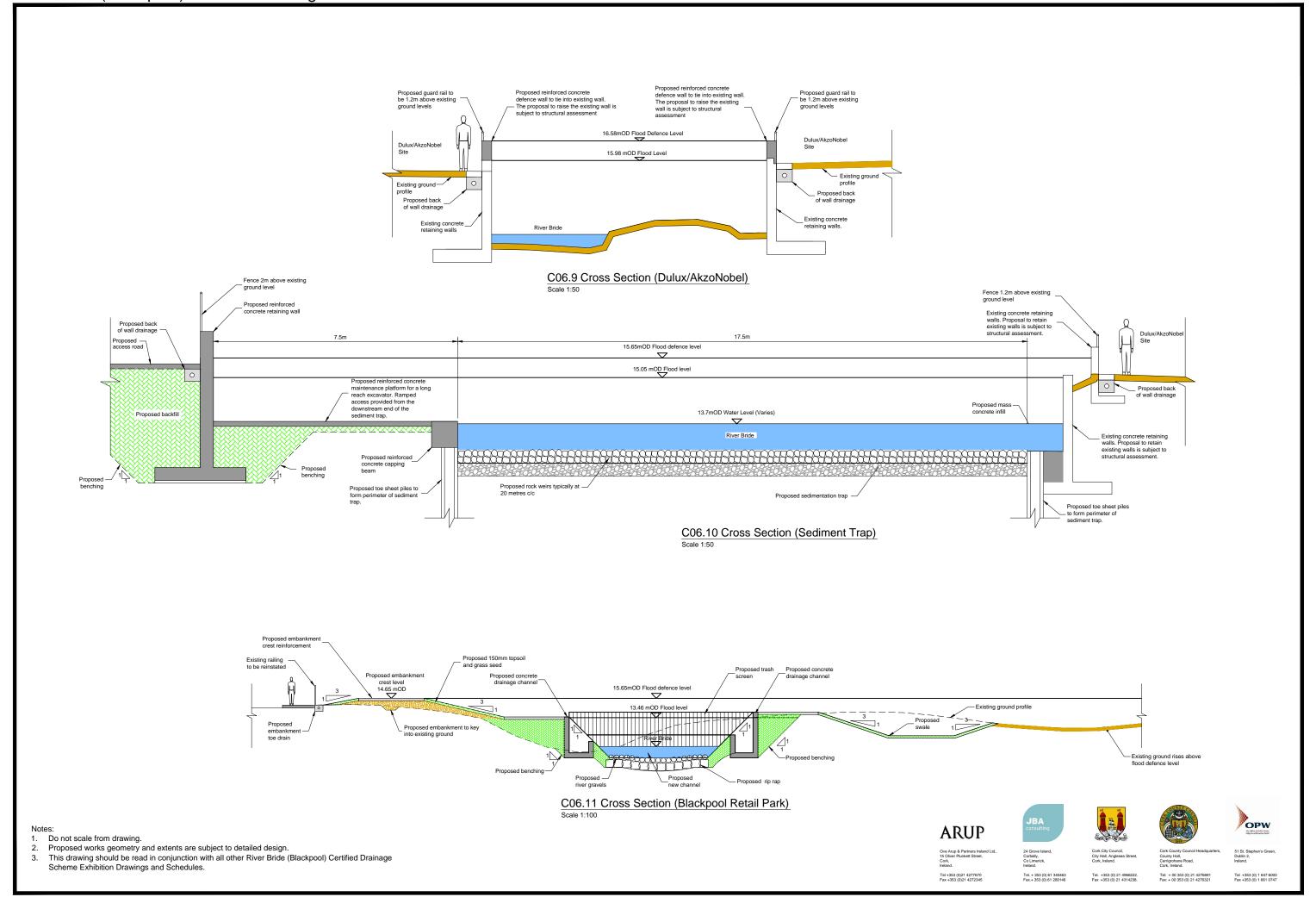
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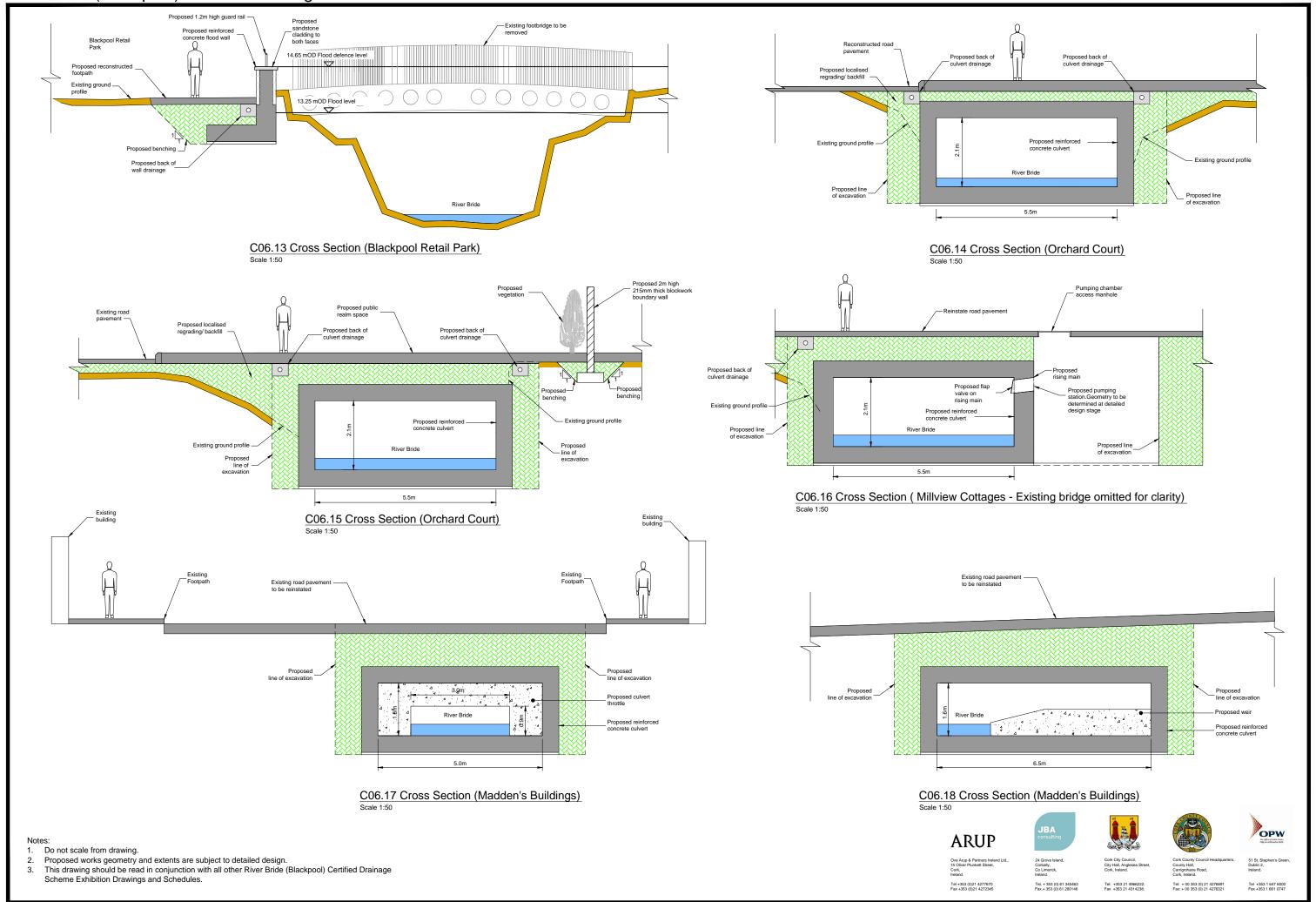
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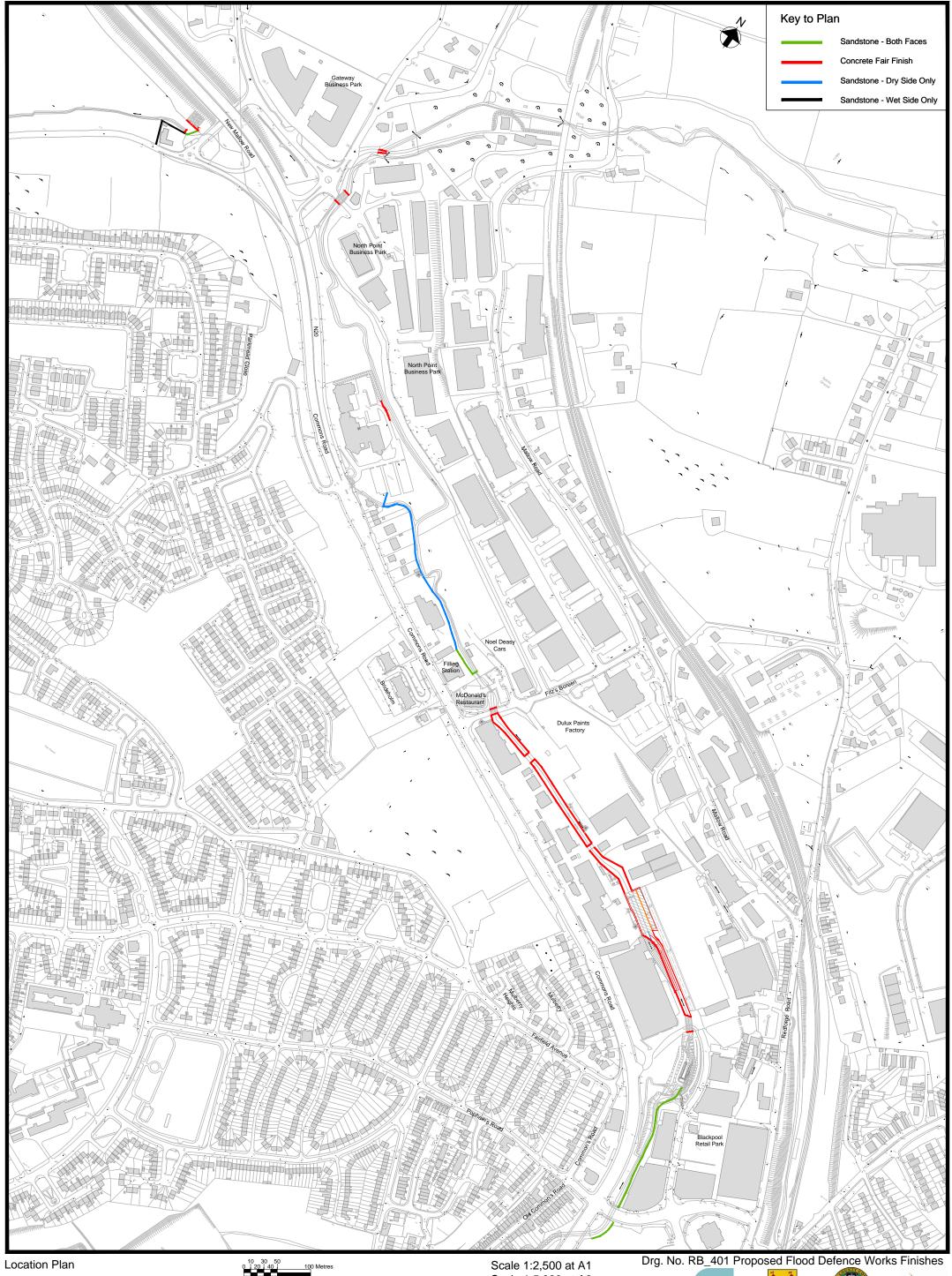
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Notes:

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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.

Scale 1:5,000 at A3

ARUP











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.

Scale 1:5,000 at A3



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