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Chainage (300m)

Channel Centreline, Reference (C08) and

Location and Reference of Cross Section

Proposed Works Chainage (m)

CXXX

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Proposed Flood Defence Embankment

Proposed Regrading of Ground Levels

Proposed Replacement Reinforced

Existing Culvert to be Retained

Concrete Culvert

Key to Plan

C08_B01

GR_301 GR_301 C01.1 C01.1



Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C09_G01	0 to 155	-	Channel maintenance, as and when necessary over a distance of 155m from the confluence of the Bleach Hill Stream and the Glashaboy River (C09_000) to 10m upstream of the proposed 2.6m wide by 2.4m high rectangular culvert (C09_155).
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of the Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).
C09_B01	132 to 145	0 to 13	Replace existing twin 0.9m diameter culverts with new 2.6m wide by 2.4m high rectangular culvert. Service diversions associated with the culvert reconstruction will be required locally.
C09_R01	129 to 146	0 to 23	Regrading of existing ground to facilitate the construction of the proposed new culvert. Ground levels to tie into existing levels on eithe side of the proposed culvert.
C01_E01	5645 to 5781	197 to 342	Proposed flood defence embankment to be constructed above flood defence level to 21.90mOD (typically 9m wide and to a height of 1.4m above existing ground levels) . Flood defence embankment to tie into high ground.

- Do not scale from drawing.
 This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation Drawings and Schedules.

 3. All sections on this drawing are taken looking downstream.

Drg. No. GR 201 Proposed Flood Defences - Plan Layout (Sheet 1 of 17)









See Drg. No. GR 201 For Continuation C01_E01 Woodview Family Doctors Barrymore Court C01_G01 C01-Glashaboy River Sallybrook Industrial Estate Proposed culvert to tie into existing road culvert C10_C04 C10-Sallybrook Stream C10_C03 C01_L01 Proposed flood defence C10.1_G01 embankment to tie into C10_C02 C10.1_B01 See Drg. No. GR_203 For Continuation

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Chainage (300m)

Channel Centreline, Reference (C08) and

Location and Reference of Cross Section Proposed Works Chainage (m)

 \times

Key to Plan

C08_B01

GR_301 GR_301 C01.1 C01.1



Scale 1:1,000 at A1

Proposed Flood Defence Embankment

Proposed Reinforced Concrete Culvert

Proposed Flood Defence Wall

Proposed Channel Works

Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of the Glashaboy River with Mill Race 1 (CO1_1643) to the confluence with Bleach Hill Stream (CO1_5815).
C10.1_G01	0 to 165	-	Channel maintenance, as and when necessary over a distance of 165m from the outfall into the Glashaboy River (C01_5300) to tie into the culvert under the R639 (C10_165).
C01_E01	5645 to 5781	197 to 342	Proposed flood defence embankment to be constructed above flood defence level to 21,90mOD (typically 9m wide and to a height of 1.4m above existing ground levels) . Flood defence embankment to tie into high ground.
C01_E01	5501 to 5645	86 to 197	Proposed flood defence embankment to be constructed above flood defence level to 21.73mOD (typically 10m wide and to a height of 1.71m above existing ground levels).
C01_E01	5462 to 5501	43 to 86	Proposed flood defence embankment to be constructed above flood defence level to 21.40mOD (typically 12m wide and to a height of 1.97m above existing ground levels).
C01_E01	5420 to 5462	0 to 43	Proposed flood defence embankment to be constructed above flood defence level to 21.10mOD (typically 10m wide and to a height of 1.60m above existing ground levels). Flood defence embankment to tie into proposed flood defence wall.
C01_L01	5384 to 5424	531 to 576	Proposed steel sheet pile wall to be constructed to flood defence level of 21.02mOD. Finished wall height to be typically 1.53m above existing ground levels. Flood defence wall to tie into proposed flood defence embankment. All drainage outfalls to be fitted with non-return valves.
C01_L01	5352 to 5384	498 to 531	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 20.62mOD (typically 2.20m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C01_L01	5298 to 5352	442 to 498	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 20.34mOD (typically 1.80m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C10_C04	160 to 167	160 to 167	The existing culvert is to be extinguished. Flow to be diverted through C10.1_B01.
C10_C03	153 to 160	153 to 160	Upstream flow to be diverted through a proposed reinforced concrete sealed chamber to C10.1_B01.
C10_C02	3 to 153	3 to 153	The stretch of existing culvert is to be retained but will not form part of the Drainage Scheme. Upstream flow to be diverted through C10.1_B01.
C10.1_B01	0 to 165	0 to 165	Channel C10 to be realigned along the line of C10.1. The Stream is to be culverted in a 900mm diameter concrete culvert from chainage zero at the outfall into the Glashaboy River at C01_5300, which will be a free flowing outlet. The culvert will extend as far back as works chainage 165 where it will tie into the culvert which crosses under the R639. All drainage outfalls within the culvert will be fitted with a non-return valve.

- Do not scale from drawing.
- This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation
- 3. All sections on this drawing are taken looking downstream.

Drg. No. GR 202 Proposed Flood Defences - Plan Layout (Sheet 2 of 17)

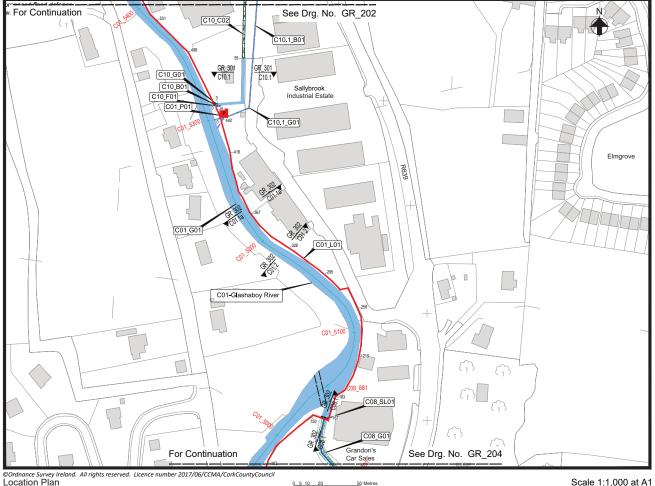








Issued for Confirmation May 2018



Reference	Chainage	Chainage (m)		
C01_L01	5384 to 5424	531 to 576	Proposed steel sheet pile wall to be constructed to flood defence level of 21.02mOD. Finished wall height to be typically 1.53m above existing ground levels. Flood defence wall to tie into proposed flood defence embankment. All drainage outfalls to be fitted with non-return valves.	
C01_L01	5352 to 5384	498 to 531	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 20.62mOl (typically 2.20m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5298 to 5352		Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 20.34mOD (typically 1.80m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5272 to 5298		Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 20.05m0D (typically 1.30m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5222 to 5272	367 to 416	Proposed steel sheet pile wall to be constructed to a flood defence level of 20.05mOD (typically 1.40m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5182 to 5222	328 to 367	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 19,05mD (typically 1.33m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5149 to 5182	295 to 328	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 19,40mD (typically 1.30m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5116 to 5149	256 to 295	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 19.0mD (typically 1.10m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5083 to 5116	219 to 256	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.70mD0 (typically 0.80m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	5030 to 5083	150 to 219	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.58mOD (typically 0.90m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	4978 to 5030	102 to 150	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.50mOD (typically 1.60m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L01	4936 to 4978	64 to 102	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.19mOD (typically 1.45m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C10_C02	3 to 153	3 to 153	The stretch of existing culvert is to be retained. Upstream flow to be diverted through C10.1_B01.	
C10_F01	3 to 7	0 to 4	Proposed boundary fence to be provided over proposed culvert. Proposed fence to tie into the proposed flood defence wall at western end.	
C10_B01	0 to 3	0 to 3	The existing stretch of open channel is to be culverted through a proposed 900mm diameter concret culvert and will outfall into the Glashaboy River at COL_5311. All drainage outfalls to be fitted with non-return valves. Upstream flow to be diverted through C10.1_801.	
C10.1_B01	0 to 165	0 to 165	Channel C10 to be realigned along the line of C10.1. The Stream is to be culverted in a 900mm diameter concrete culvert from chainage zero at the outfall into the Glashaboy River at C01_5300, which will be a free flowing outlet. The culvert will extend as far back as works chainage 165 where it will tie into the culvert which crosses under the R639. All drainage outfalls within the culvert will be fitted with a non-return valve.	
C01_P01	5300	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at CO1_5300. All outlets to be fitted with non-return valves.	
C08_SL01	857	-	Proposed flow control structure on the Mill Race. The structure will be fitted with a penstock to facilitate maintenance of the Mill Race. A base flow will be maintained in the Mill Race at all times.	
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).	
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (CO8_000) and the bifurcation of the Glashaboy River and Mill Race (CO8_881).	
C10.1_G01	0 to 165	-	Channel maintenance, as and when necessary over a distance of 165m from the outfall into the Glashaboy River (C01_5300) to tie into the culvert under the R639 (C10_165).	
C10_G01	0 to 3	0 to 3	Channel maintenance, as and when necessary over a distance of 3m from the confluence of the Sallybrook Stream and the Glashaboy River (C01_5312) to the proposed culvert (C10_801).	

General Description of Proposed Works

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



Key to Plan

C08 300

Channel Centrelline, Reference (C08) and Chainage (300m)

C08_B01

GR 301 GR 301

C01.1

C01.1

Total Proposed Works Chainage (m)

Existing Weir to be retained

Proposed Flood Defence Wall

Existing Culvert to be Retained

Proposed Reinforced Concrete Culvert

Proposed Flow Control Structure

Proposed Rising Main (Surface Water)

Proposed Pumping Station (Surface Water)

Proposed Channel Works

Proposed Boundary Works

Notoo

Do not scale from drawing

Interference Channel

Reference Chainage

Proposed

- This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation Drawings and Schedules.
- All sections on this drawing are taken looking downstream, except C08.1 which is looking to the east.

Drg. No. GR 203 Proposed Flood Defences - Plan Layout (Sheet 3 of 17)



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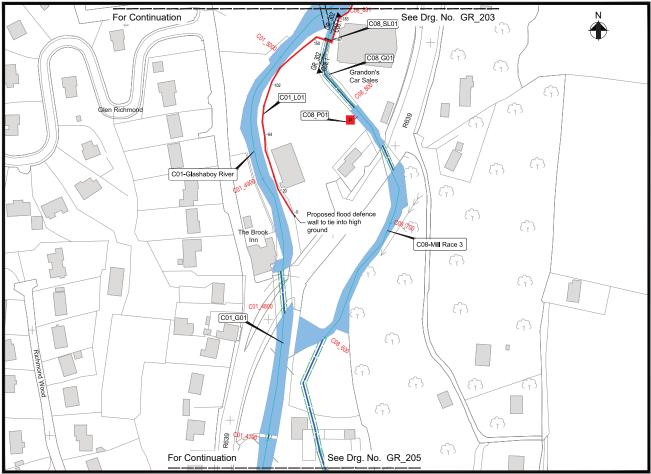
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Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_L01	5030 to 5083	150 to 219	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.58mOD (typically 0.90m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C01_L01	4978 to 5030	102 to 150	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.50mOD (typically 1.60m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C01_L01	4936 to 4978	64 to 102	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 18.19mOD (typically 1.45m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C01_L01	4886 to 4936	20 to 64	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 17.87mOD (typically 1.20m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C01_L01	4869 to 4886	0 to 20	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 17.55mOD (typically 0.80m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Proposed flood defence wall to tie into high ground.
C08_SL01	857	-	Proposed flow control structure on the Mill Race. The structure will be fitted with a penstock to facilitate maintenance of the Mill Race. A base flow will be maintained in the Mill Race at all times.
C08_P01	790	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at C08_790. All outlets to be fitted with non-return valves.
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (C08_000) and the bifurcation of the Glashaboy River and Mill Race 3 (C08_881).

- Do not scale from drawing.

 This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation Drawings and Schedules.
- Section C08.1 faces eastward.

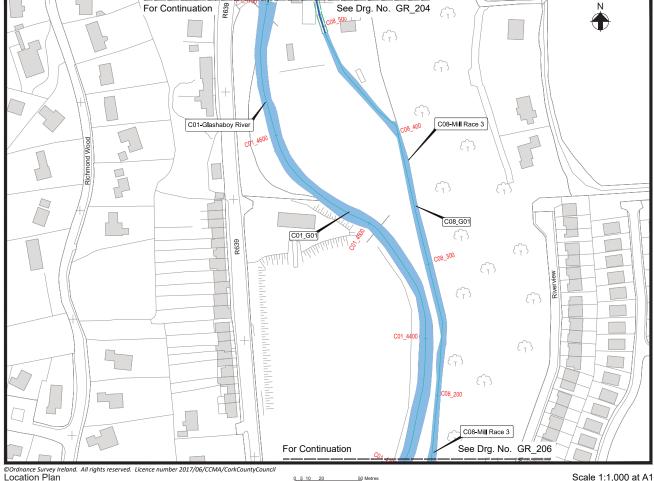
Drg. No. GR 204 Proposed Flood Defences - Plan Layout (Sheet 4 of 17)











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

Chainage (300m)

Channel Centreline, Reference (C08) and

Existing Culvert To Be Retained

Key to Plan

C08_B01



Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (C08_000) and the bifurcation of the Glashaboy River and Mill Race 3 (C08_881).

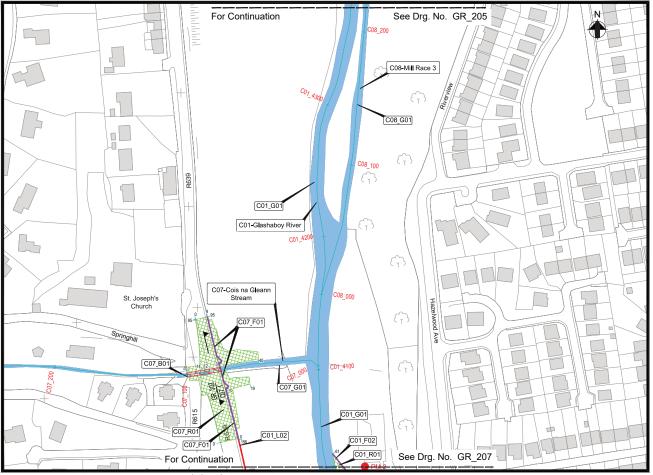
- 2. This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation

Drg. No. GR 205 Proposed Flood Defences - Plan Layout (Sheet 5 of 17)

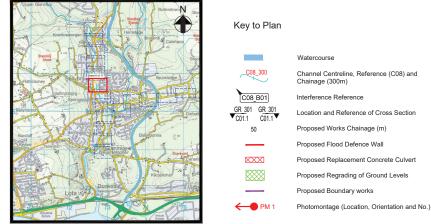








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Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).
C08_G01	0 to 881	-	Channel maintenance, as and when necessary over a distance of 881m from the confluence of the Glashaboy River and Mill Race 3 (C08_000) and the bifurcation of the Glashaboy River and Mill Race 3 (C08_881).
C07_G01	0 to 111	-	Channel maintenance, as and when necessary over a distance of 111m from the confluence of the Cois na Gleann Stream and Glashaboy River (C07_000) to 10m upstream of the replacement culvert at C07_111.
C07_B01	75 to 87	0 to 12	Existing culvert to be replaced with a proposed 2.75m wide by 0.9m high rectangular culvert. Service diversions associated with the culvert reconstruction will be required locally.
C07_B01	87 to 89	12 to 14	Existing open channel section to be culverted with a proposed 2.75m wide by 0.9m high rectangular culvert. Service diversions associated with the culvert reconstruction will be required locally.
C07_B01	89 to 101	14 to 26	Existing culvert to be replaced with a proposed 2.75m wide by 0.9m high rectangular culvert. Existing trashscreen upstream to be removed from the culvert. Service diversions associated with the culvert reconstruction will be required locally.
C07_R01	46 to 99	0 to 95	Proposed road regrading on the R639 to facilitate the construction of the replacement Cois Na Gleann Stream culvert under the R639 road.
C07_F01	4047 to 4140	0 to 95	Existing stone wall to be replaced with a proposed 1.20m high wall. Vehicular access to be provided from the R639 to the Circus Field and Glanmire GAA club.
C01_L02	4024 to 4047	132 to 156	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 13.61mOD (typically 0.50m above existing footpath level). All drainage outfalls to be fitted with non-return valves.
C01_F02	3995 to 4036	0 to 61	Proposed fencing and access gate to be provided around the open channel for safety/security.
C01_R01	3995 to 4050	0 to 61	Proposed flood relief channel to be constructed with engineered grassed slopes.

- Do not scale from drawing.
- This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation
- Drawings and Schedules. Section C07.1 faces eastwards.

Drg. No. GR 206 Proposed Flood Defences - Plan Layout (Sheet 6 of 17)







For Continuation See Drg. No. GR_206 C01 G01 C07_R01 C01 L02 C01_F02 C01_B02 GR 303 C01.3 Hazelwood Avenue wall to tie into high GR 303 C01.5 ground C01_F03 C01_B03 C01 G01 C01_L10a C01_L04 See Drg. No. GR_208 For Continuation

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

Key Plan

Key to Plan Watercourse Proposed New Bridge _C08_300 Channel Centreline, Reference (C08) and Proposed Regrading of Ground Levels Chainage (300m) Existing Culvert To Be Retained Photomontage (Location, Orientation and No.) ___ C08_B01 Interference Reference Proposed Flood Defence Wall GR 301 GR 301 C01.1 C01.1 Location and Reference of Cross Section XXX Proposed Reinforced Concrete Culvert Proposed Replacement Reinforced Proposed Works Chainage (m) CXXX 50 Concrete Culvert Proposed Retaining Wall Proposed Boundary works XXX Proposed Channel Works

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Reference	Chainage	Works Chainage (m)	Description of Proposed works		
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of The Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).		
C07_R01	46 to 99	0 to 95	Proposed road regrading on the R639 to facilitate the construction of the replacement Cois Na Gleann Stream culvert under the R639 road.		
C07_F01	4047 to 4140	0 to 95	Existing stone wall to be replaced with a new 1.20m high wall. Vehicular access to be provided from the R639 to the Circus Field and Glanmire GAA club .		
C01_L02	4024 to 4047	132 to 156	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 13.61mOD (typically 0.50m above existing footpath level). All drainage outfalls to be fitted non-return valves.		
C01_L02	3995 to 4024	0 to 132	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 13.50mOD (typically 1.30m above existing footpath level). All drainage outfalls to be fitted with non-return valves.		
C01_F02	3995 to 4036	0 to 61	Fencing and lockable access gate to be provided around the open channel for safety/security.		
C01_R01	3995 to 4036	0 to 61	Proposed flood relief channel to be constructed with engineered grassed slopes.		
C01_B02	3978 to 3995	0 to 17	Proposed 6.2m wide by 1.55m high rectangular flood relief culvert to be constructed. Service diversions associated with the culvert construction will be required.		
C01_F03	3951 to 3980	0 to 24	Fencing and lockable access gate to be provided around the open channel for safety/security.		
C01_R02	3951 to 3980	0 to 27	Proposed flood relief channel to be constructed with engineered grassed slopes.		
C01_L03a	3980	0 to 5	Proposed reinforced concrete flood defence wall to be constructed to 13.20mOD (typically 1.20m above existing ground levels). All drainage outfalls to be fitted with non-return valves.		
C01_L03	3980	104 to 111	Proposed reinforced concrete flood defence wall to be constructed above flood defence level to 13.70mOD (typically 1.20m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Service diversions associated with the wall construction will be required.		
C01_L03	3980	83 to 104	Proposed reinforced concrete flood defence wall to be constructed above flood defence level to 13.30mOD (typically 1.20m above existing ground levels). All drainage outfalls to be fitted with non-return valves.		
C01_L03	3941 to 3980	41 to 83	Proposed reinforced concrete flood defence wall to be constructed to 12.71mOD flood defe level (typically 1.45m above existing ground levels). All drainage outfalls to be fitted with non-return valves.		
C01_L03	3916 to 3941	16 to 41	Proposed reinforced concrete flood defence wall to be constructed above flood defence lev 12.74mOD (typically 1.25m above existing ground levels). All drainage outfalls to be fitted w non-return valves.		
C01_L03	3911 to 3916	10 to 16	Proposed reinforced concrete flood defence wall to be constructed above flood defence lev 12.93mOD (typically 1.34m above existing ground levels). All drainage outfalls to be fitted w non-return valves.		
C01_L03	3901 to 3911	0 to 10	Proposed reinforced concrete flood defence wall to be constructed above flood defence lev 13.10mOD (typically 1.52m above existing ground levels). All drainage outfalls to be fitted w non-return valves.		
C01_R03	3852 to 3933	0 to 90	Regrading of existing ground to facilitate the construction of the proposed new bridge. Ground levels to tie into existing levels on either side of the proposed bridge. Service diversions associated with road regrading will be required.		
C01_B03	3888 to 3901	0 to 13	Replace existing bridge with a new reinforced concrete bridge. Bridge to be 13.50m clear span. Proposed bridge soffit level to be 12.3mOD (approximately 1.85m above existing bridge soffit).		
C01_L10	3900	0 to 10	Proposed reinforced concrete retaining wall to be constructed to 13.35mOD (typically 1.87m above existing road levels).		
C01_L10	3899	10 to 19	Proposed reinforced concrete retaining wall to be constructed to 12.75mOD (typically 1.00m above existing road levels).		
C01_L10	3898	19 to 21	Proposed reinforced concrete retaining wall to be constructed to 12.55mOD (typically 0.51m		
C01_L10a	3887	0 to 4	above existing road levels). Proposed reinforced concrete retaining wall to be constructed to 13.35mOD (typically 1.48m above existing road levels).		
C01_L04	3885 to 3887	87 to 92	Proposed reinforced concrete flood defence wall to be constructed above flood defence level to 13.35mOD (typically 1.81m above existing ground levels in the funeral home car park). The floo defence wall is to tie into the proposed bridge at the upstream end. All drainage outfalls to be		
C01_L04	3883 to 3885	84 to 87	fitted with non-return valves. Proposed reinforced concrete flood defence wall to be constructed above flood defence level to 12.85mOD (typically 1.32m above existing ground levels in the funeral home car park). All drainage outfalls to be fitted with non-return valves.		
C01_L04	3843 to 3883	45 to 84	Proposed reinforced concrete flood defence wall to be constructed to 12.21mOD flood defence level (typically 1.41m above existing ground levels in the funeral home car park). All drainage outfalls to be fitted with non-return valves.		
C01_L04	3806 to 3843	8 to 45	outrails to be fitted with non-return vaives. Proposed reinforced concrete flood defence wall to be constructed to 11.93mOD flood defence level (typically 1.33m above existing ground levels in the funeral home car park). All drainage outfalls to be fitted with non-return vaives.		

Interference Channel Proposed General Description of Proposed Works

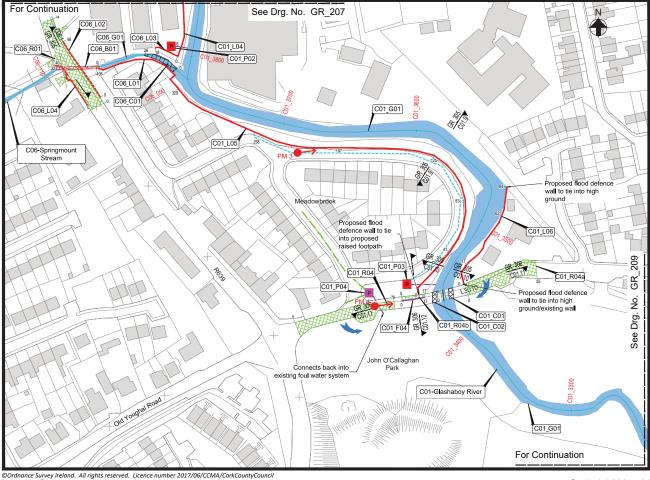
- Drawings and Schedules. Sections C01.4 & C01.7 face

eastwards.

Drg. No. GR_207 Proposed Flood Defences - Plan Layout (Sheet 7 of 17)



Issued for Confirmation May 2018



Channel Centreline, Reference (C08) and

Key to Plan

C08_300

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

Proposed Surface Water Overland Flow Route

Existing Bridge/Culvert To Be Retained



Proposed Flood Defence Wall Photomontage (Location, Orientation and No.) XXX Proposed Reinforced Concrete Culvert C08_B01 Interference Reference Proposed Retaining Wall GR_301 GR_301 C01.1 C01.1 Location and Reference of Cross Section Proposed Replacement Reinforced Concrete XXX Proposed Works Chainage (m) Proposed Regrading of Ground Levels Proposed Drain (Surface Water) Existing Bridge Arch to be Cleared Proposed Pumping Station (Surface Water) Proposed Foul/Combined pipe Proposed Pumping Station (Foul Water) Proposed Boundary Works Proposed Rising Main (Surface Water or Foul rxxx Proposed works to channel bed

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works	
C06_G01	0 to 116	-	Channel maintenance, as and when necessary over a distance of 116m from the confluence of the Springmount Stream and the Glashaboy River (C06_000) and 10m upstream of the proposed culvert (C06_116).	
C01_G01	1643 to 5815	÷	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of the Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).	
C01_L04	3806 to 3843	8 to 45	Proposed reinforced concrete flood defence wall to be constructed to 11.93m0D flood defence level (typically 1.33m above existing ground levels in the funeral home car park). All drainage outfalls to be fitted with non-return valves.	
C01_L04	3796 to 3806	0 to 8	Proposed reinforced concrete flood defence wall to be constructed to 11.59mOD flood defence level (typically 1.05m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C06_L03	12 to 29	0 to 18	Proposed reinforced concrete flood defence wall constructed to 11.59m0D flood defence level (typically 0.95m above existing ground levels). The flood defence wall is to tie into high ground to the west. All drainage outfalls to be fitted with non-return valves.	
C06_R01	87 to 106	0 to 74	Localised road regrading to facilitate the construction of the replacement Springmount Stream culvert across the R639 road.	
C06_B01	73 to 105	0 to 32	Replace existing twin 0.4m diameter culverts with a new 1.75m wide by 0.9m high rectangular culvert.	
C06_L02	87	0 to 48	Proposed reinforced concrete retaining wall to be constructed (typically 1.96m above existing ground levels) to retain regraded road levels.	
C06_L04	100	0 to 40	Proposed reinforced concrete retaining wall to be constructed (typically 2.1m above existing ground levels) to retain raised road levels. Vehicular access to existing properties to be maintained.	
C06_C01	11 to 38	0 to 26	Removal of any in-channel flow obstruction and level channel bed.	
C01_P02	3804	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at CO1_3804. All outlets to be fitted with non-return valves.	
C06_L01	70 to 73	406 to 411	Proposed reinforced concrete flood defence wall to be constructed above flood defence level to 14.70mOD (typically 2.5m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C06_L01	0 to 73	329 to 406	Proposed reinforced concrete flood defence wall to be constructed to 11.59mOD flood defence level (typically 1.33m above existing ground levels). All drainage outfalls to be fitted with non-return valves.	
C01_L05	3716 to 3782	258 to 329	Proposed reinforced concrete flood defence wall to be constructed to 11.59m0D flood defence level (typically 1.50m above essiting ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves.	
C01_L05	3674 to 3716	197 to 258	Proposed reinforced concrete flood defence wall to be constructed to 11.37mOD flood defence level (typically 2.15m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves.	
C01_L05	3595 to 3674	125 to 197	Proposed reinforced concrete flood defence wall to be constructed to 11.00mOD flood defence level (typically 2.10m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves.	
C01_L05	3533 to 3595	83 to 125	Proposed reinforced concrete flood defence wall to be constructed to 10.67mOD flood defence level (typically 2.45m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves.	
C01_L05	3484 to 3533	41 to 83	Proposed reinforced concrete flood defence wall to be constructed to 10.29m0D flood defence level (typically 2.38m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves.	
C01_L05	3457 to 3484	0 to 41	Proposed reinforced concrete flood defence wall to be constructed to 9.90mOD flood defence level (typically 1.70m above existing ground levels). The wall will be constructed on the Meadowbrook estate side of the existing wall to preserve the trees along the Glashaboy River bank. All drainage outfalls to be fitted with non-return valves. Proposed wall to tie into high ground at Riverstown Bridge.	
C01_P03	3444	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at CO1_3444. All outlets to be fitted with non-return valves.	
C01_P04	3443	-	Proposed foul water pumping station, with overflow manhole and rising main to be installed for operation when required to pump foul water trapped in Meadowbrook Estate during a flood event into the foul network downstream of the estate.	
C01_L06	3510 to 3527	62 to 84	Proposed steel sheet pile flood defence wall to be constructed to 10.67mOD flood defence level (typically 1.07m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Fence to be constructed on the dry side of the flood defence wall.	
C01_L06	3467 to 3510	17 to 62	Proposed steel sheet pile flood defence wall to be constructed to 10.29mOD flood defence level (typically 0.95m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Fence to be constructed on the dry side of the flood defence wall.	
C01_L06	3440 to 3467	0 to 17	Proposed steel sheet pile flood defence wall to be constructed to 9.90mOD flood defence level (typically 0.90m above existing ground levels). All drainage outfalls to be fitted with non-return valves. Fence to be constructed on the dry side of the flood defence wall.	
C01_R04a	3431 to 3466	0 to 55	Proposed localised road (inc. footpath) regrading and re-cambering to divert surface water runoff during a flood event southwards into the Glashaboy River.	
C01_F04	3437	0 to 17	The existing Riverstown Bridge parapet wall to be modified (including localised minor stonework repairs) to provide guarding to pedestrians.	
C01_R04	3426 to 3437	0 to 76	Proposed localised road regrading and re-cambering to divert surface water runoff during a flood event southwards into the Glashaboy River via O'Callaghan Park, downstream of Riverstown Bridge.	
C01_R04b	3437	0 to 17	Proposed localised regrading and re-cambering of the existing footpath.	
C01_C01	3433 to 3440	0 to 8	Existing bridge arch to be cleared by removing built up silt and vegetation (Left Bank).	
C01_C02	3432 to 3440	0 to 8	Existing bridge arch to be cleared by removing built up silt and vegetation. Existing manhole in bridge arch to be removed and services diverted (Right Bank).	
Notes:				

- Do not scale from drawing.
- This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation Drawings and Schedules.
- 3. All sections on this drawing are taken looking downstream with the exception of C06.1 and C01.12 which face eastwards.

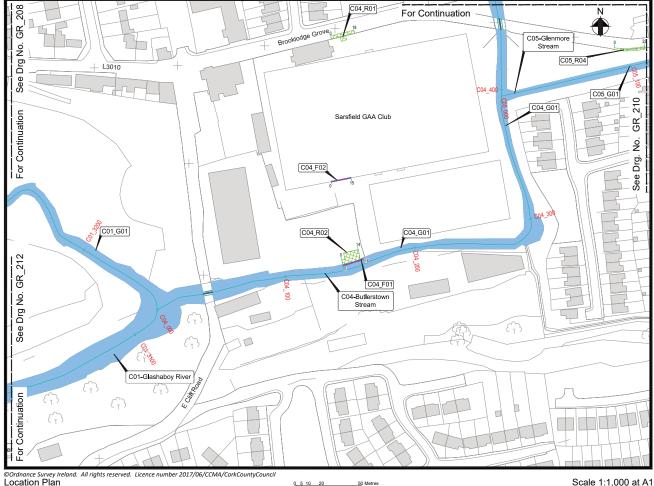
Drg. No. GR_208 Proposed Flood Defences - Plan Layout (Sheet 8 of 17)







Issued for Confirmation May 2018



Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C04_R01	-	0 to 18	Proposed localised road and footpath regrading.
C04_R02	144 to 158	0 to 14	Proposed localised road and footpath regrading.
C05_R04	90 to 113	0 to 23	Minimal landscaping and regrading of ground levels, to facilitate overland flow on Brooklodge Grove back into the Glenmore Stream.
C04_F01	144 to 160	0 to 16	Existing boundary wall to be modified to allow overland flow to discharge into the Butlerstown Stream.
C04_F02	-	0 to 15	Existing boundary wall to be modified to allow overland flow to discharge into the Butlerstown Stream.
C01_G01	1643 to 5815	-	Channel maintenance, as and when necessary over a distance of 4172m from the confluence of the Glashaboy River with Mill Race 1 (C01_1643) to the confluence with Bleach Hill Stream (C01_5815).
C04_G01	0 to 640	-	Channel maintenance, as and when necessary over a distance of 640m from the confluence of the Butlerstown Stream and Glashaboy River (C04_000) to chainage 640 on the Butlerstown Stream.
C05_G01	0 to 1865	-	Channel maintenance, as and when necessary over a distance of 1865m from the confluence of the Glenmore Stream and the Butlerstown Stream (C05_000) to chainage 1865 on the Glenmore Stream

- Do not scale from drawing.

 Do not scale from drawing.

 This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation Drawings and Schedules.

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



Key to Plan

Channel Centreline, Reference (C08) and Chainage (300m)

C08_B01 50

Proposed Works Chainage (m) Existing Bridge/Culvert to be Retained

Proposed Boundary Works

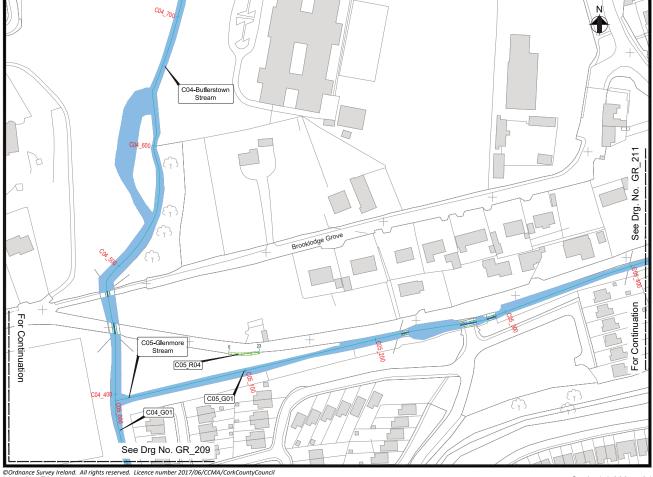
Proposed Regrading of Ground Levels

Drg. No. GR 209 Proposed Flood Defences - Plan Layout (Sheet 9 of 17)



Key Plan

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Chainage (300m)

Proposed Works Chainage (m) Existing Culvert To Be Retained Proposed Regrading of Ground Levels

Channel Centreline, Reference (C08) and

Key to Plan

C08_B01 50



Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C05_R04	90 to 113	0 to 23	Minimal landscaping and regrading of ground levels, to facilitate overland flow on Brooklodge Grove back into the Glenmore Stream.
C04_G01	0 to 640	-	Channel maintenance, as and when necessary over a distance of 640m from the confluence of the Butlerstown Stream and Glashaboy River (C04_000) to chainage 640 on the Butlerstown Stream.
C05_G01	0 to 1865	-	Channel maintenance, as and when necessary over a distance of 1865m from the confluence of the Glenmore Stream and the Butlerstown Stream (C05_000) to chainage 1865 on the Glenmore Stream.

- Do not scale from drawing.
 This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation

Drg. No. GR_210 Proposed Flood Defences - Plan Layout (Sheet 10 of 17)







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See Drg No. GR_216 C05-Glenmore Stream C05_C01 14.5 C05_F01_ C05_R01 Brooklodge Grove See Drg No. GR 210 For Continuation C05_L11 C05 B02 C05_G01 C05_R02 For Cont

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



CXXX

Channel Centreline, Reference (C08) and Photomontage (Location, Orientation and No.) C08_B01

Key to Plan

Interference Reference GR 301 GR 301 C01.1 C01.1 Location and Reference of Cross Section

Proposed Works Chainage (m) Proposed Boundary Works Existing Culvert/Bridge to be Retained Proposed Regrading of Ground Levels

Proposed Flood Defence Wall

Proposed Channel Widening & Deepening

Proposed Reinforced Concrete Culvert Replacement

Proposed Pumping Station (Surface Water)

Proposed Rising Main (Surface Water)

Proposed New Bridge

Proposed Retaining Wall

Issued for Confirmation May 2018

Interference Reference	Channel Chainage	Proposed Works Chainage (m)	General Description of Proposed Works
C05_G01	0 to 1865	-	Channel maintenance, as and when necessary over a distance of 1865m from the confluence of the Glenmore Stream and the Butlerstown Stream (COS_000) to chainage 1865 on the Glenmore Stream.
C05_L01	693 to 845	0 to 150	Existing wall to be strengthened. All drainage outfalls to be fitted with non-return valves.
C05_L01	682 to 693	150 to 160	Proposed reinforced concrete retaining wall to be constructed to 15.63mOD (typically 1.40m above existing footpath levels). All drainage outfalls to be fitted with non-return valves.
C05_L01	666 to 682	160 to 188	Proposed reinforced concrete retaining wall to be constructed to 15.84mOD (typically 1.76m above existing footpath levels). All drainage outfalls to be fitted with non-return valves.
C05_L01	666 to 678	188 to 207	Proposed reinforced concrete retaining wall to be constructed to 15.64mOD (typically 1.54m above existing garden levels). All drainage outfalls to be fitted with non-return valves.
C05_B01	655 to 666	0 to 12	Replace three existing culverts, (2.32m span arch, 2.95m wide by 0.68m high culvert and 2.95m wide by 0.67m high culvert) with 2 no. rectangular culverts each 5m wide by 2.12m high. Service diversions associated with the culvert reconstruction will be required.
C05_R01	571 to 703	0 to 121	Brooklodge Grove road to be regraded to facilitate the construction of the proposed replacement culvert including minor regrading and landscaping to adjoining gardens and driveways.
C05_F01	-	0 to 44	Proposed boundary works to the existing property following regrading of ground levels.
C05_B02	588 to 600	0 to 12	Replace existing bridge with a new reinforced concrete bridge. Bridge to be 10m clear span. Proposed bridge soffit level to be 13.79m0D (approximately 0.33m above existing bridge soffit). Service diversions associated with the bridge reconstruction will be required.
C05_L11	602 to 641	0 to 43	Proposed reinforced concrete retaining wall to be constructed to 14.84mOD (typically 1.04m above existing ground levels). All drainage outfalls to be fitted with non-return valves.
C05_R02	580 to 604	0 to 24	Entrance to Copper Valley Vue to be regraded to facilitate the construction of the proposed replacement bridge.
C05_C01	662 to 673	0 to 14	Channel to be deepened by 0.30m at the existing culvert inlet to facilitate the installation of the proposed replacement culvert at Brooklodge Grove.
C05_C02	600 to 656	0 to 61	Channel to be widened by up to 8m (varies) and deepened by 0.3m typically over a distance of 61m from the proposed culvert under the entrance to Copper Valley Vue (C05_600) to the proposed culvert under Brooklodge Grove (C05_656).
C05_C03	548 to 588	0 to 40	Channel to be widened by up to 6m (varies) and deepened by 0.4m typically over a distance of 40m downstream of the proposed culvert replacement at Copper Valley Vue (C05_588).
C05_P01	653	-	Proposed local surface water pumping station, collector drain, manhole and rising main to be installed for operation during a flood event at CO5_653. All outlets to be fitted with non-return valves.

- Do not scale from drawing.
- This drawing should be read in conjunction with all other Glashaboy River (Glanmire/Sallybrook) Drainage Scheme Confirmation Drawings and Schedules.
 3. All sections on this drawing are taken looking downstream.

Drg. No. GR 211 Proposed Flood Defences - Plan Layout (Sheet 11 of 17)





