

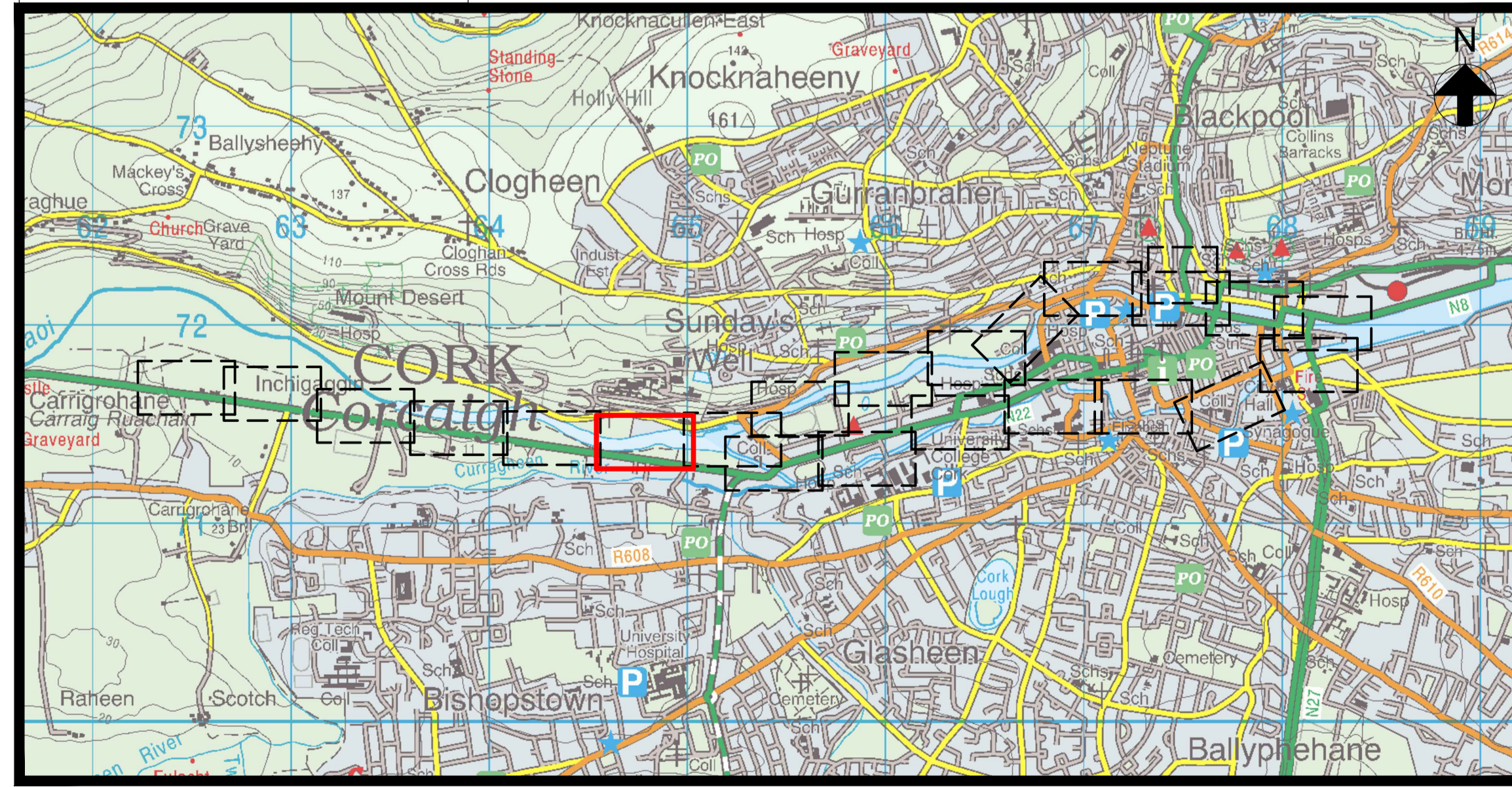
Location Plan

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

Notes:

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 Lower Lee (Cork City) Drainage Scheme Exhibition Drawings and Schedules.


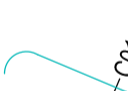
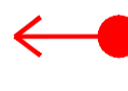
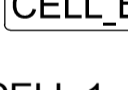



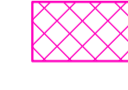



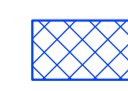



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Key Plan

Scale 1:25,000 at A1
Scale 1:50,000 at A3

Key to Plan

-  Watercourse
-  Channel centreline, reference (C01) and chainage (300m)
-  Photomontage (Location, Orientation and No.)
-  Interference reference.
-  Location and reference of cross section
-  Proposed works chainage (m)
-  Flood defence wall
-  Proposed flood defence embankment
-  Proposed regrading of ground levels
-  Proposed pumping station (surface water)
-  Proposed manhole (surface water)
-  Proposed drain (surface water)
-  Proposed rising main (surface water)
-  Proposed reinforced concrete box culvert
-  Existing surcharged culvert
- Proposed pedestrian walkway

Interference Reference	Scheme Element Chainage (m) (DS-US)	Channel Chainage (m)	General Description of New Works
NNC_L14	0 to 216	C01_5102 to C01_5330	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 5.80mOD, up to 1.50m above existing ground levels.
NNC_L14	216 to 224	C01_5330 to C01_5340	Proposed steel flood wall to be constructed to flood defence level of 5.80mOD, up to 1.3m above existing ground levels. Wall to tie into the proposed reinforced concrete flood defence wall at both ends. The wall is to be designed to allow for infrequent and controlled short term dismantling to facilitate access to the adjacent site for maintenance.
NNC_L14	224 to 290	C01_5340 to C01_5425	Proposed reinforced concrete flood defence wall to be constructed to flood defence level of 5.85mOD, typically 1.2m above existing ground levels. Wall to tie into existing high ground levels at the western end.
□WW_E13	0 to 31	C01_5412 to C01_5464	Existing embankment to be refurbished and raised to flood defence level of 6.05mOD, typically 0.9m above existing ground levels. Crest width to be 2m with 1 in 1 engineered side slopes. Embankment to tie into existing high ground at the eastern end. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_P13		C01_5463	Proposed surface water pumping station and rising main to operate during a flood event. An overflow from the existing infiltration gallery to this pumping station will be constructed and operate during flood events. All outlets to be fitted with non return valves.
□WW_E13	31 to 78	C01_5464 to C01_5503	Existing embankment to be refurbished and raised to flood defence level of 6.05mOD, typically 0.9m above existing ground levels. Crest width to be 2m with 1 in 3 side slopes. Embankment to tie into the proposed wall at the western end. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_E13	78 to 96	C01_5464 to C01_5519	Existing embankment to be refurbished and raised to flood defence level of 6.05mOD, typically 0.9m above existing ground levels. Crest width to be 2m with 1 in 1 engineered side slopes. Embankment to tie into the proposed wall at the western end. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_L09	0 to 17	C01_5519 to C01_5527	Proposed reinforced concrete flood defence wall to flood defence level of 5.85mOD, typically 1.1m above existing ground levels. Wall to tie into the proposed embankments at both ends. All drainage outfalls to be fitted with non return valves.
□WW_E12	0 to 26	C01_5527 to C01_5550	Existing embankment to be refurbished and raised to flood defence level of 6.05mOD, typically 1.1m above existing ground levels. Crest width to be 2m with 1 in 1 side slopes. Embankment to tie into the proposed walls at both ends. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_E12	26 to 59	C01_5550 to C01_5581	Existing embankment to be refurbished and raised to flood defence level of 6.05mOD, typically 1.1m above existing ground levels. Crest width to be 2m with 1 in 2 side slopes. Embankment to tie into the proposed walls at both ends. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_E12	59 to 71	C01_5581 to 5595	Existing embankment to be refurbished and raised to flood defence level of 6.05mOD, typically 1.1m above existing ground levels. Crest width to be 2m with 1 in 1 side slopes. Embankment to tie into the proposed walls at both ends. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_L08	0 to 23	C01_5595 to C01_5603	Proposed reinforced concrete flood defence wall to flood defence level of 5.85mOD, typically 0.9m above existing ground levels. Wall is to tie into the proposed embankments at both ends. All drainage outfalls to be fitted with non return valves.
□WW_SL01		C01_5600	Existing sluice gate at the waterworks intake is to be replaced.
□WW_E10	0 to 143	C01_5603 to C01_5761	Existing embankment to be refurbished and raised to flood defence level of 6.2mOD, typically 1m above existing ground levels. Crest width to be 2m with 1 in 3 side slopes. Embankment to tie into the proposed wall at the eastern end. The existing tree line along the river bank is to be retained. All drainage outfalls to be fitted with non return valves.
□WW_P12		C01_5837	Proposed surface water pumping station and rising main to operate during a flood event. All outlets to be fitted with non return valves.
□WW_E10	143 to 213	C01_5761 to C01_5812	Existing embankment to be refurbished and raised to flood defence level of 6.4mOD, typically 1.2m above existing ground levels. Crest width to be 2m with 1 in 3 side slopes. All drainage outfalls to be fitted with non return valves.
□WW_R16	0 to 24	C01_5846 to C01_5890	Proposed vehicular access ramp to maintain access to adjacent land. Ramp to have a maximum gradient of 1 in 10.
□WW_05	0 to 20	C01_5793	Existing stream to be culverted in a 2.0m wide by 1.2m high rectangular culvert. This culvert will be pressurised during a flood event.
□WW_G10		C01_5400	Existing footpath to be removed.
□WW_L10	258 to 350	C01_5350 to C01_5375	Existing river wall and safety railing to remain (safety railing may need to be removed and reinstated to facilitate works). Proposed flood defence wall to be located at the south side of the existing public footpath. Proposed flood defence wall to be constructed to a level of 5.85mOD, typically 1.6m above existing ground levels on the river side and 1.2m above existing ground levels on car park/Kingsley side. Footpath to be reinstated on completion.
□WW_R18	0 to 28	C01_5403 to C01_5418	Proposed pedestrian access ramp to provide access to the proposed pedestrian walkway and the existing riverside walkway. Ramp to have a maximum gradient of 1 in 20 with landings provided as required.
□WW_R19	0 to 43	C01_5389 to C01_5418	Proposed pedestrian access ramp to provide access to the proposed pedestrian walkway. Ramp to have a maximum gradient of 1 in 20 with landings provided as required.
□WW_E11	0 to 243	C01_5403 to C01_5658	Proposed flood defence embankment to flood defence level of 6.05mOD, typically 2m above existing ground level. Crest width to be 4m with 1 in 3 side slopes. Embankment is to tie into the proposed walls at both ends.
□WW_R17		C01_5628 to C01_5658	Pedestrian access ramp to provide access to the proposed pedestrian walkway and the existing riverside walkway. Ramp to have a maximum gradient of 1 in 20 with landings provided as required.
□WW_L07	0 to 157	C01_5629 to C01_5760	Proposed reinforced concrete flood defence wall to flood defence level of 6.0mOD, typically 1.0m above existing ground levels. Wall to tie into proposed embankments at both ends.
□WW_L07	157 to 315	C01_5760 to C01_5900	Proposed reinforced concrete flood defence wall to flood defence level of 6.20mOD, typically 1.0m above existing ground levels. Wall to tie into proposed embankments at both ends.

Drg. No. LL_213 Proposed Flood Defences □ Plan Layout (Sheet 13 of 30)

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