Lower Lee (Cork City) Drainage Scheme

Issued for Exhibition December 2016

General Description of New Works

The existing railing is to be demolished and replaced with a new reinforced concrete flood defence parapet to flood defence level of 4.5mOD (typically 1.2m above existing ground level). The existing river wall and foundation □ones are to be grouted. The

Proposed reinforced concrete flood defence wall to flood defence level of 4.60mOD, typically 1.2m above existing ground levels.

Wall to tie into the proposed regraded ground levels at the western end. All drainage outfalls to be fitted with non return valves.

Proposed realignment and regrading of Wise's Quay. Regrading to tie into existing road level at North Mall and at the western

Proposed surface water pumping station and rising main to operate during a flood event. All outlets to be fitted with non return

Proposed reinforced concrete flood defence wall to flood defence level of 4.60mOD, typically 1.2m to 1.5m above proposed ground levels. The existing river wall and foundation □ones are to be grouted. The granular soil backing □one is to be grouted.

The face of the existing wall is to be cleaned and repointed and the stonework repaired where necessary. The wall will tie into

Proposed penstock to be placed on upstream face of the existing bridge. Remedial works to the existing bridge as required to

Proposed reinforced concrete flood defence wall to be constructed on the existing bridge to flood defence level of 4.60mOD, typically 1.2m above existing ground levels. The proposed wall will be offset from the existing parapet and will be constructed at

Proposed reinforced concrete flood defence wall to flood defence level of 4.60mOD, typically 1.2m above existing ground levels. The existing river wall and foundation □ones are to be grouted. The granular soil backing □one is to be grouted. The face of the

existing wall is to be cleaned and repointed and the stonework repaired where necessary. All drainage outfalls to be fitted with

Proposed reinforced concrete flood defence wall to be constructed on the eastern side of the existing road to flood defence level of 4.60mOD, between 0.15m to 1.1m above existing ground levels. Palisade fencing to be installed on the proposed wall to 2.1m

above existing ground level to tie in with existing palisade fencing, typically 1.0m to 1.95m of railing. All drainage outfalls to be

Proposed flood defence embankment to flood defence level of 4.9mOD, typically 1.0m to 1.3m above existing ground levels.

Proposed flood defence embankment to flood defence level of 4.9mOD, typically 1.3m to 1.4m above existing ground levels.

Proposed flood defence embankment to flood defence level of 4.9mOD, typically 1.3m to 1.5m above existing ground levels.

Proposed flood defence embankment to flood defence level of 4.9mOD, typically 1.1m to 1.2m above existing ground levels.

Proposed flood defence embankment to flood defence level of 4.9mOD, typically 1.0m above existing ground levels. Crest width

Proposed reinforced concrete flood defence wall to flood defence level of 4.7mOD, typically 0.7m above existing ground levels. Palisade fencing is to be installed on the proposed parapet to 2.1m above existing ground level (1.4m of railing). All drainage

Proposed flood defence embankment to flood defence level of 4.9mOD, typically 0.7m to 0.8m above existing ground levels.

The existing stone parapet is to be removed, salvaged and replaced with a new reinforced concrete parapet wall to flood

cleaned and repointed and the stonework repaired where necessary. All drainage outfalls to be fitted with non return valves.

defence level of 4.4mOD, 1.2m above proposed ground levels. The existing river wall and foundation □ones are to be grouted. Possible additional strengthening works may include the incorporation of micro piles. The face of the existing wall is to be

Road to be regraded to reduce the relative height of proposed flood defence wall. New footpath to be provided adjacent to quay

Crest width to be 4m with 1 in 3 side slopes. All drainage outfalls to be fitted with non return valves.

Crest width to be 4m with 1 in 2 side slopes. All drainage outfalls to be fitted with non return valves.

Crest width to be 4m with 1 in 3 side slopes. All drainage outfalls to be fitted with non return valves.

Crest width to be 4m with 1 in 1 side slopes. All drainage outfalls to be fitted with non return valves.

Crest width to be 4m with 1 in 3 side slopes. All drainage outfalls to be fitted with non return valves.

Proposed flood gate to be fitted to flood defence wall. Top of gate to be at flood defence level of 4.50mOD.

Proposed flood defence gate to be fitted to flood defence wall. Top of gate to be at flood defence level of 4.50mOD.

The existing stone parapet is to be removed, salvaged and replaced with a new reinforced concrete parapet wall to flood

defence level of 4.50mOD, 1.2m above existing ground level. The existing soil backing ⊑one, river wall ⊑one and foundation

The existing stone parapet is to be removed, salvaged and replaced with a new reinforced concrete parapet wall to flood

defence level of 4.65mOD, typically 1.2m above existing ground levels. The existing soil backing cone, river wall cone and

Proposed surface water pumping station and rising main to operate during a flood event. All outlets to be fitted with non 🛭 eturn

Proposed sheet pile flood defence wall to be constructed in channel to flood defence level of 4.65mOD, typically 1.5m above

Proposed sheet pile flood defence wall to be constructed in channel to flood defence level of 4.70mOD, typically 1.5m above

existing ground levels. Flood wall to tie into proposed flood defence embankment at western end. All drainage outfalls to be fitted

to be 4m with 1 in 3 side slopes. All drainage outfalls to be fitted with non return valves.

end. Pedestrian access from St. Vincent's □ridge to be regraded to achieve a crest level at flood defence level of 4.60mOD.

granular soil backing □one is to be grouted. The face of the existing wall is to be cleaned and repointed and the stonework

repaired where necessary. All outlets to be fitted with non return valves.

Ramped and stairs access to be provided.

ensure masonry arches have capacity to resist potential uplift

the western edge of the existing pedestrian walkway.

Existing gated access to be extinguished.

Existing gated access to be extinguished.

outfalls to be fitted with non return valves.

□one to be grouted. All outlets to be fitted with non return valves.

Proposed public pla a to be constructed on reclaimed land.

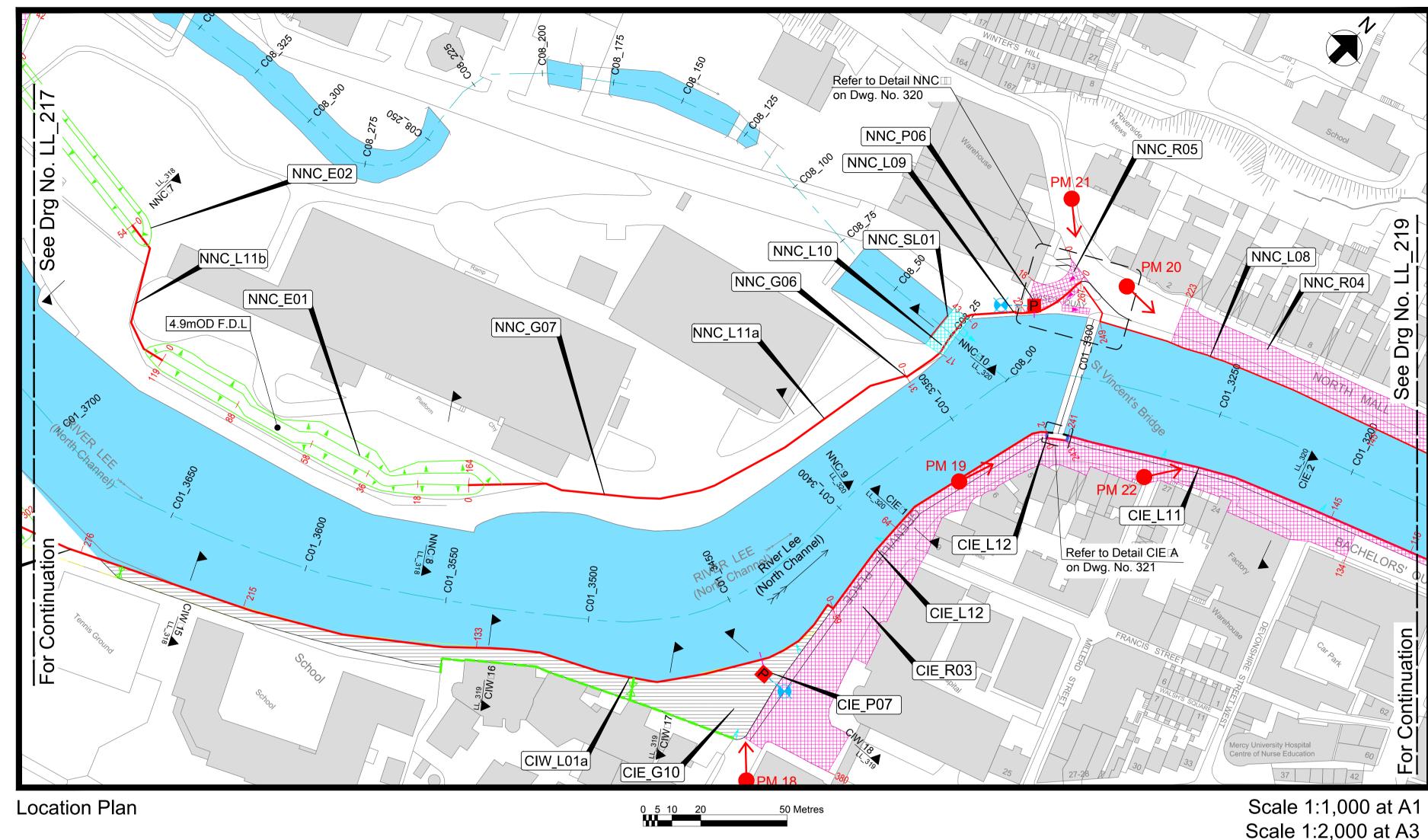
foundation cone to be grouted. All outlets to be fitted with non return valves.

existing ground levels. All drainage outfalls to be fitted with non return valves.

non return valves.

Road and footpath to be regraded to reduce the relative height of proposed flood defence wall.

the proposed ground levels at the western end. All drainage outfalls to be fitted with non return valves.



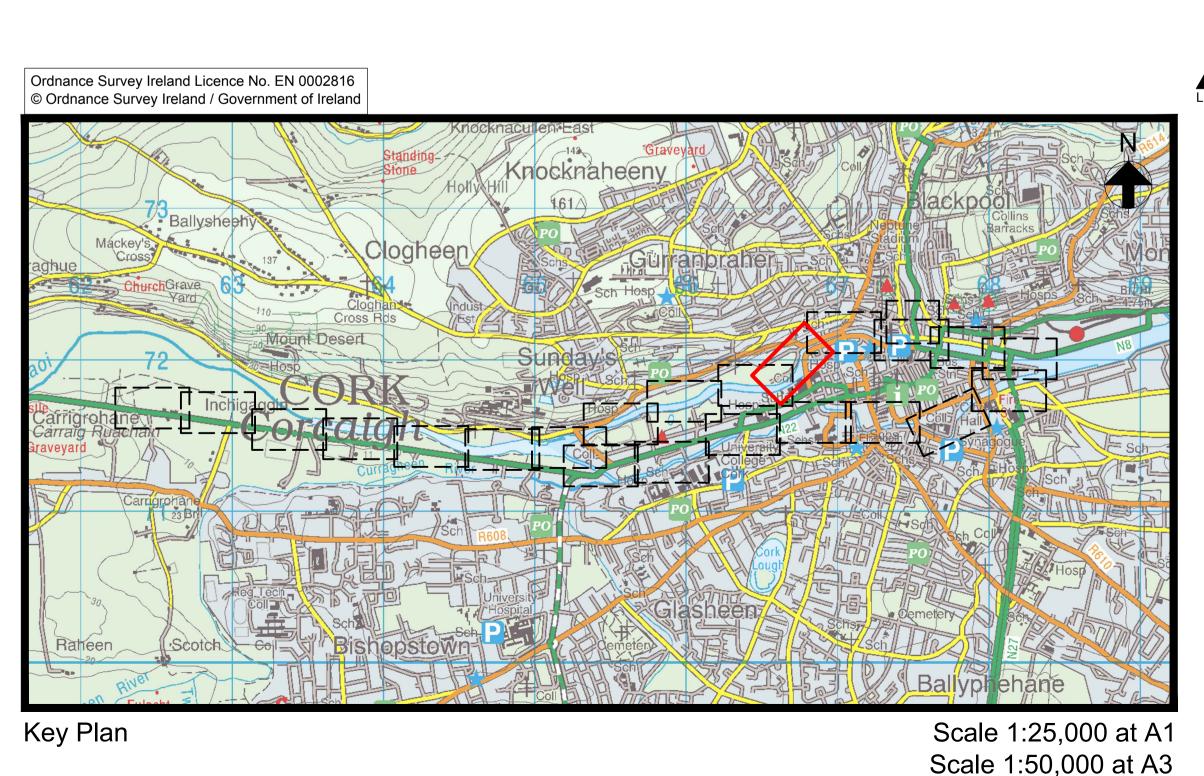
Key to Plan

Channel centreline, reference (C01) and chainage (300m)

Watercourse

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



Photomontage (Location, Orientation and No.) CELL_B01 Interference reference. Location and reference of cross section -50Proposed works chainage (m) Flood defence wall Demountable flood defence (type varies) Proposed flood defence embankment **T T T** Proposed regrading of ground levels

Land to be reclaimed

Proposed pumping station (surface water)

Proposed security fence and gate

Existing surcharged bridge □culvert

Proposed manhole (surface Water)

Proposed rising main (surface water)

Proposed drain (surface Water)

	ip & Partners Irelan ert Quay,	
	• .	
Cork, Ire	eland.	

Fax +353 (0)21 4272345

ARUP

Element

Chainage

(m) (DS-US)

145 to 249

0 to 223

249 to 267

0 to 42

0 to 43

0 to 17

17 to 31

0 to 164

0 to 18

18 to 36

36 to 58

58 to 88

88 to 119

0 to 54

0 to 70

145 to 241

241 to 243

0 to 380

0 to 2

2 to 64

64 to 99

0 to 133

133 to 302

Interference

Reference

NNC_L08

NNC_R04

NNC L08

NNC R05

NNC P06

NNC_L09

NNC_SL01

NNC_L10

NNC_L10

NNC_G06

NNC_G07

NNC_L11a

NNC_E01

NNC_E01

NNC_E01

NNC_L11b

NNC_E02

CIE_L11

CIE_R03

CIE_L12

CIE_L12

CIE_L12

CIE_P07

CIE_G10

CIW_L11

CIW_L11

Channel Chainage

C01_3200 to

C01_3298

C01_3275

C01_3298 to

C01_3308

C01 3304 to

C01_3310

C01_3310

C01_3320

C01_3335 to

C01_3353

C01 3348 to

C01_3353

C01_3497 to

C01_3500

C01_3355 to

C01_3550 to

C01_3565

C01_3583

C01_3583 to

C01_3610

C01_3610 to

C01_3647

C01_3742 to

C01_3300

C01_3200 to 3470

C01_3310

C01_3310 to

C01_3435

C01_3450

C01_3450

C01_3425 to

C01_3616







OPW

Co Limerick Tel +353 (0)21 4277670 Tel. + 353 (0) 61 345463

Tel. +353 (0) 21 4966222 Fax.+ 353 (0) 61 280146 Fax +353 (0) 21 4314238

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

Carrigrohane Road, Tel: + 00 353 (0) 21 4276891

Fax: + 00 353 (0) 21 4276321

Tel +353 (0) 1 647 6000 Fax +353 (0) 1 661 0747



