

South Western CFRAM Study

Preliminary Options Report UoM 18

July 2016

The Office of Public Works

South Western CFRAM Study

Preliminary Options Report UoM 18

July 2016

The Office of Public Works

Jonathan Swift Street
Trim
Co. Meath

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Issue and Revision Record

Revision	Date	Originator	Checker	Approver	Description
A	March 2016	TD / RM / JD	B. O'Connor	F. McGivern	Draft Issue
B	May 2016	T. Donovan	B O'Connor	F McGivern	Draft Final
C	June 2016	T. Donovan	B. O'Connor	F. McGivern	Final
D	July 2016	J Desmond	T. Donovan	F. McGivern	Final

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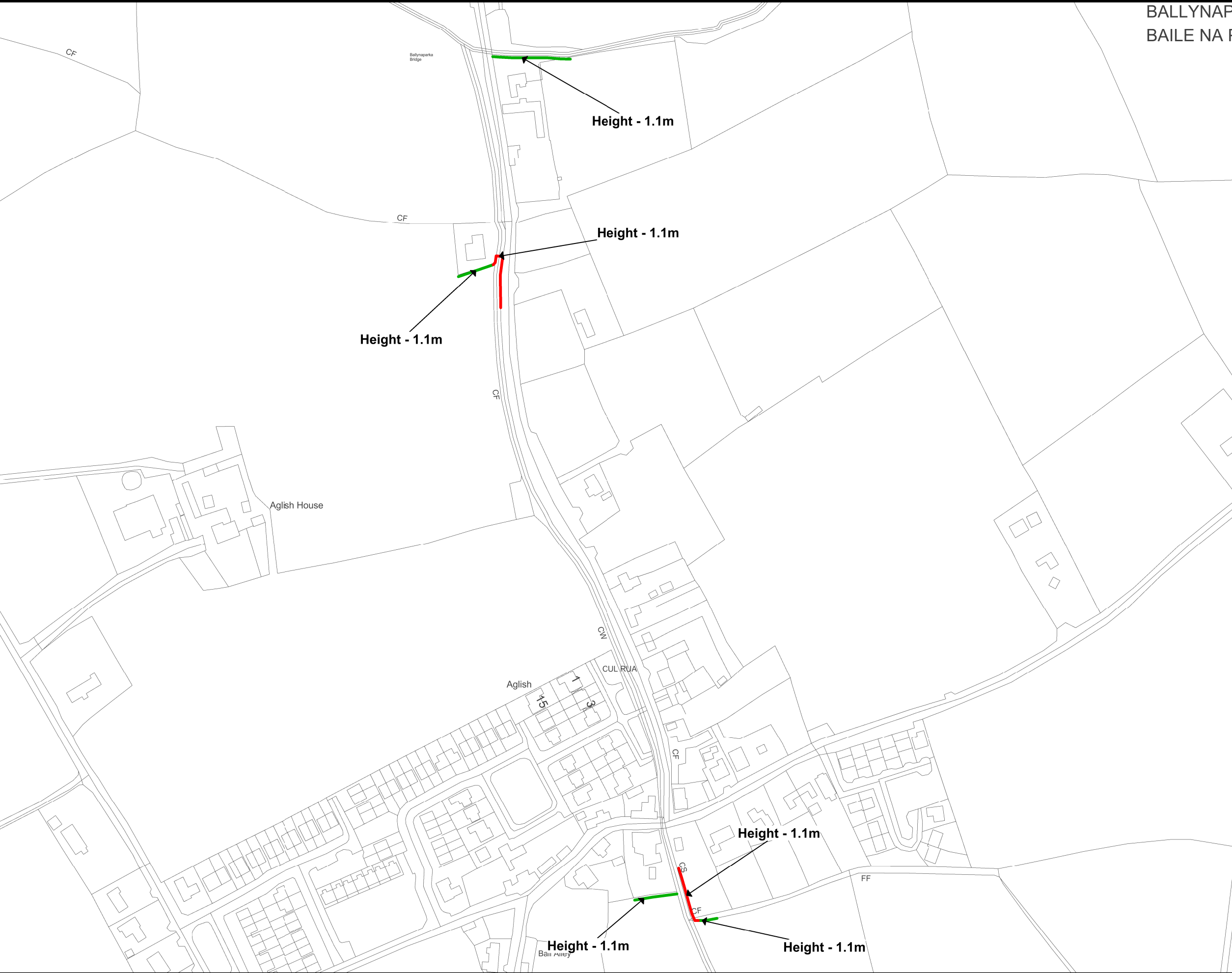
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Appendices

Appendix A. Estimate of Costs	97
Appendix B. Drawings of Potential FRM Options	98
Appendix C. Draft SEA Options Appraisal Report	99
Appendix D. Draft Screening for Appropriate Assessment under the Habitats Directive	100
Appendix E. Climate Change Adaptability	101
Appendix F. Multi Criteria Assessment	102

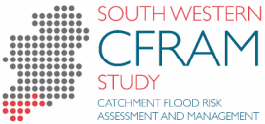
Appendix B. Drawings of Potential FRM Options



BALLYNAPARKA
BAILE NA PARKA

Flood Defence Walls

Flood Defence Embankments



Office of Public Works
Jonathan Swift Street
Trim, Co. Meath



Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project :

South Western CFRAM Study

Map : Aglish
Flood Defences

Map Type: Preliminary Options

Source: Fluvial Flooding

Map Area: Urban Area

Scenario: Current

Drawn by: Tony Donovan

Checked by: Barry O'Connor

Approved by: Fintan McGivern

Map No.: MMD-296235-E-DR-18-AH-201-P1

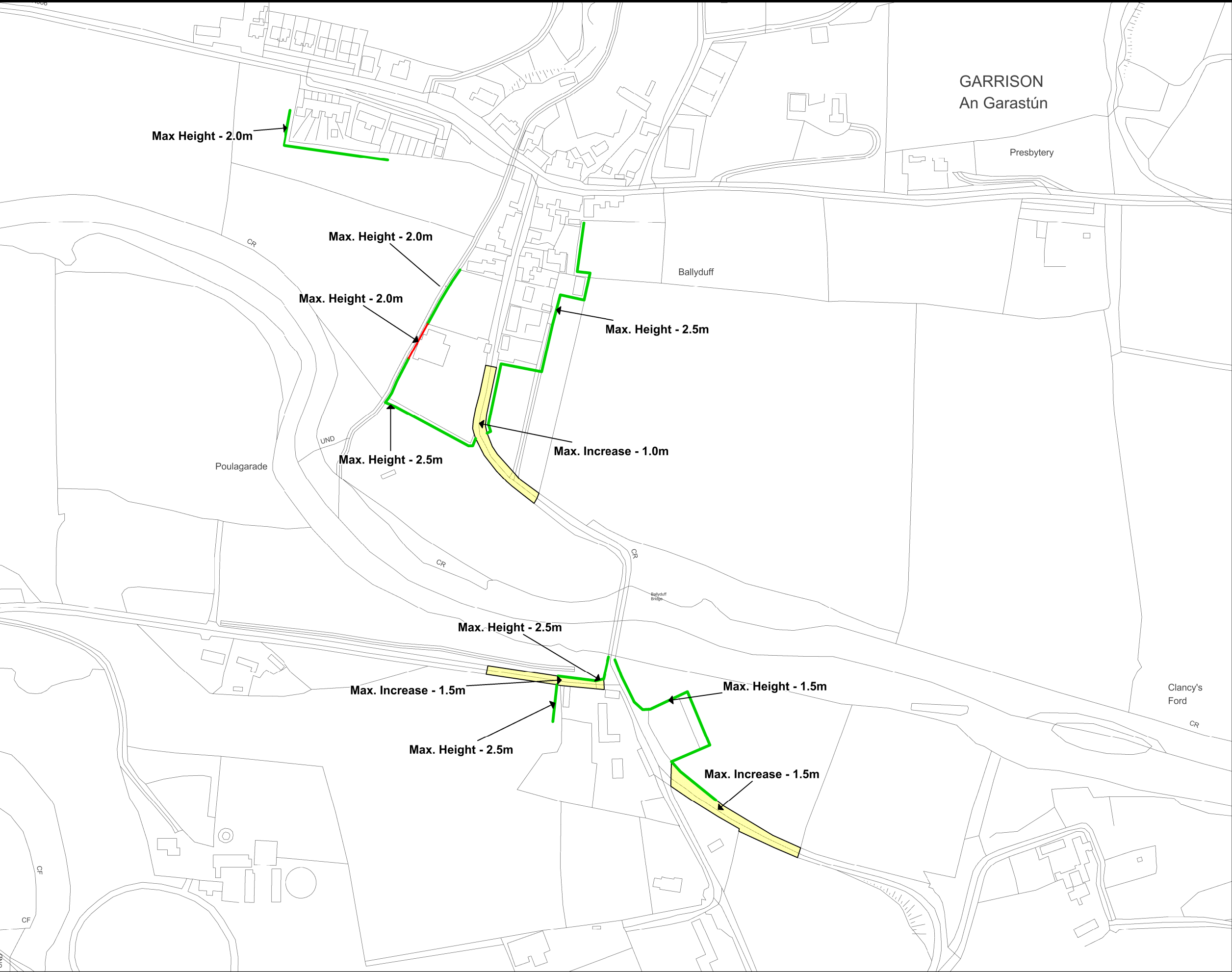
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- Flood Defence Walls
- Flood Defence Embankment
- Road Raising



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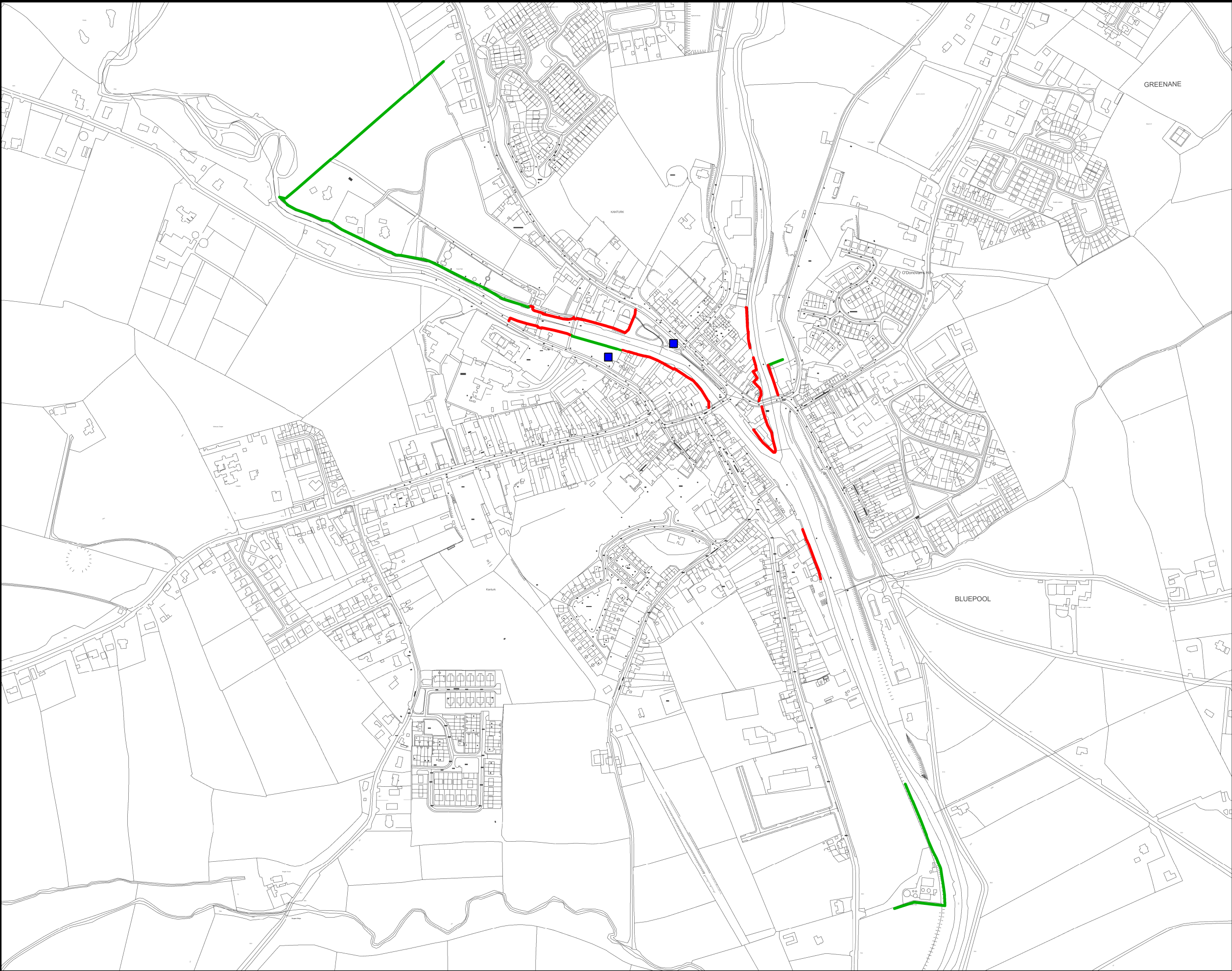
Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Ballyduff - Emerging Preferred Option Fluvial Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-BF-201-P1
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Flood Defence Walls

Flood Defence Embankments

Pump Stations



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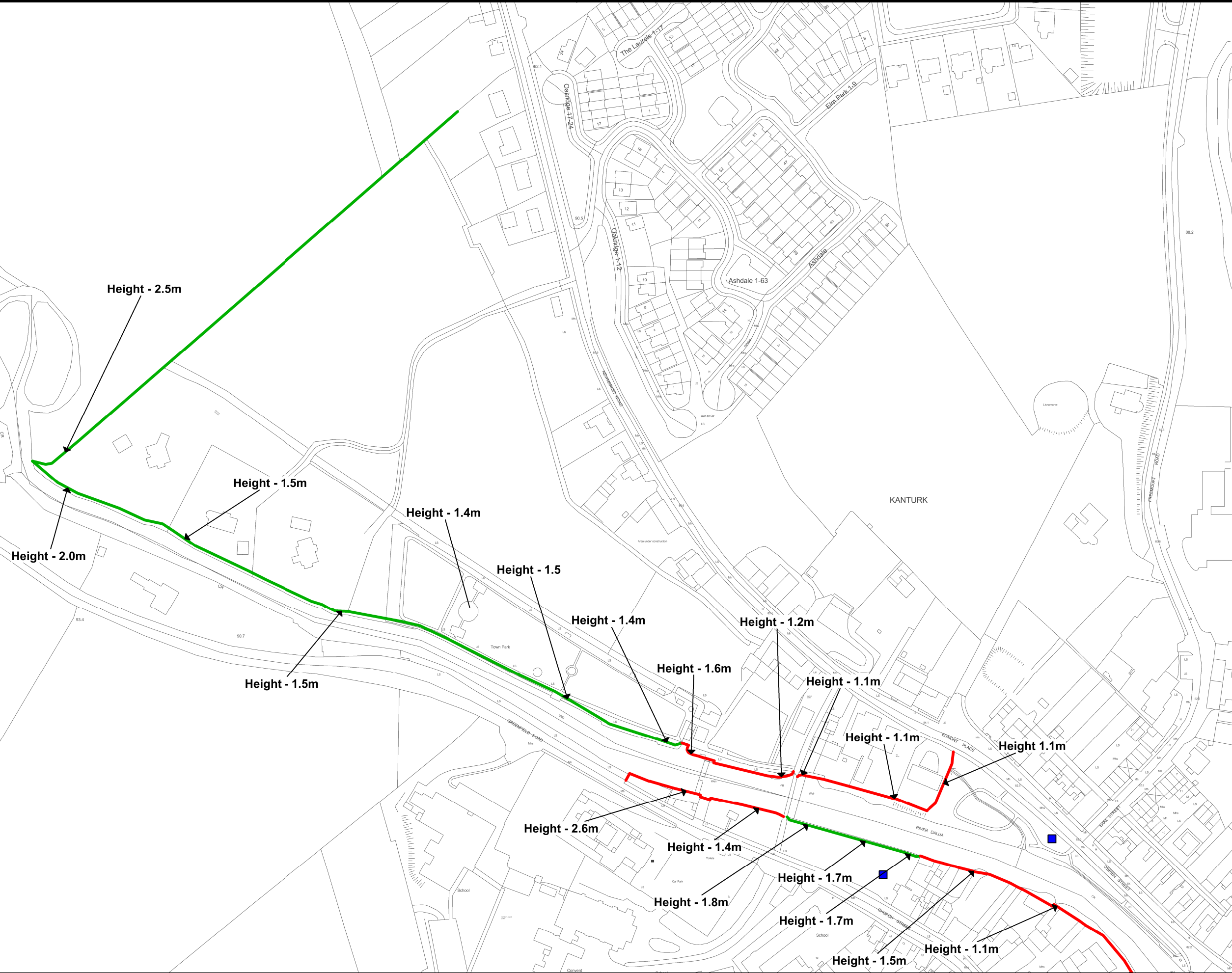
Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Kanturk Flood Defences - Overview	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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Flood Defence Walls

Flood Defence Embankments

Pump Stations



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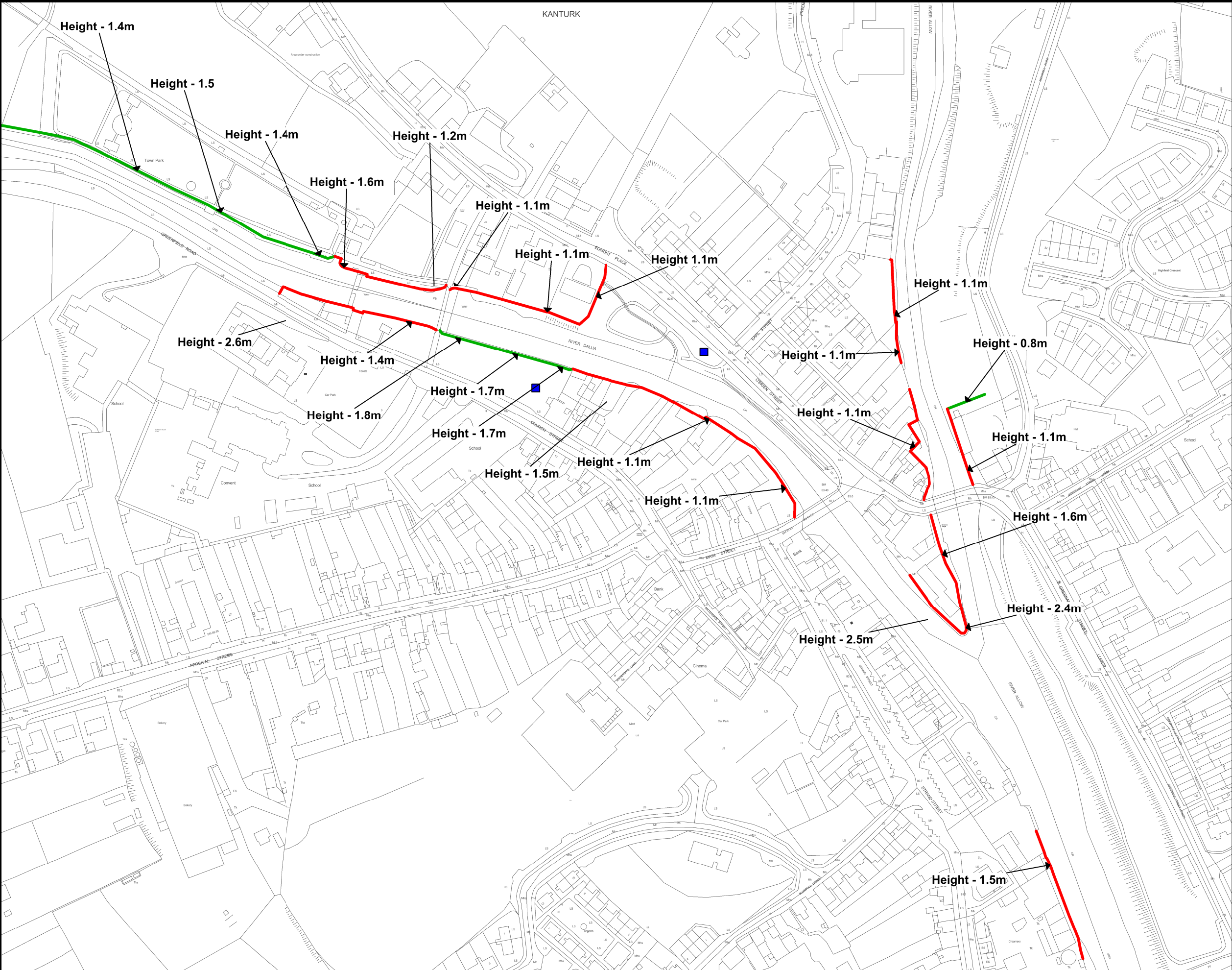
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5 Eastgate Avenue
Little Island, Cork


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Map : Kanturk Fluvial Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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Flood Defence Walls


Flood Defence Embankments


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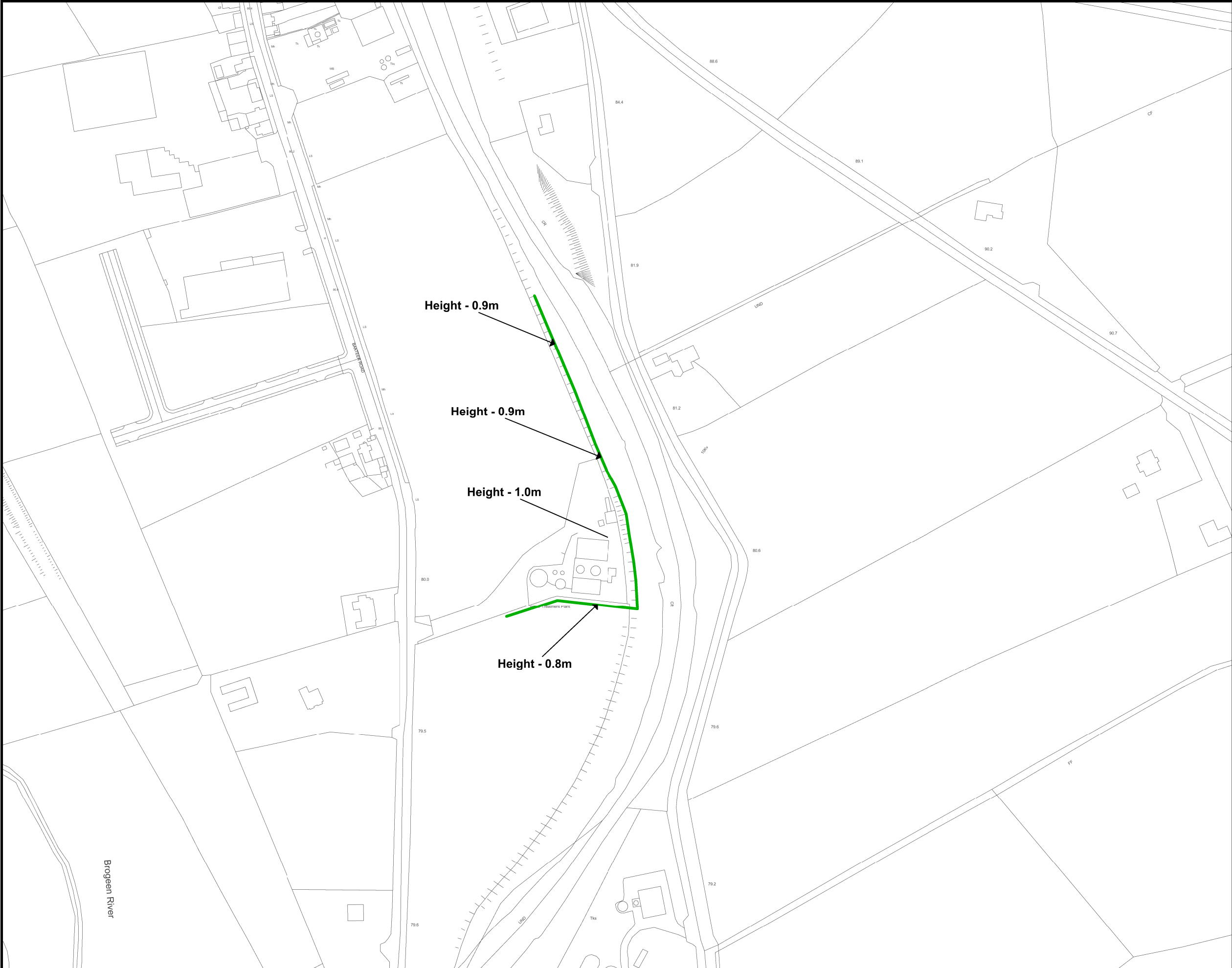
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Little Island, Cork

Project : South Western CFRAM Study	
Map : Kanturk Fluvial Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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Flood Defence Walls

Flood Defence Embankments



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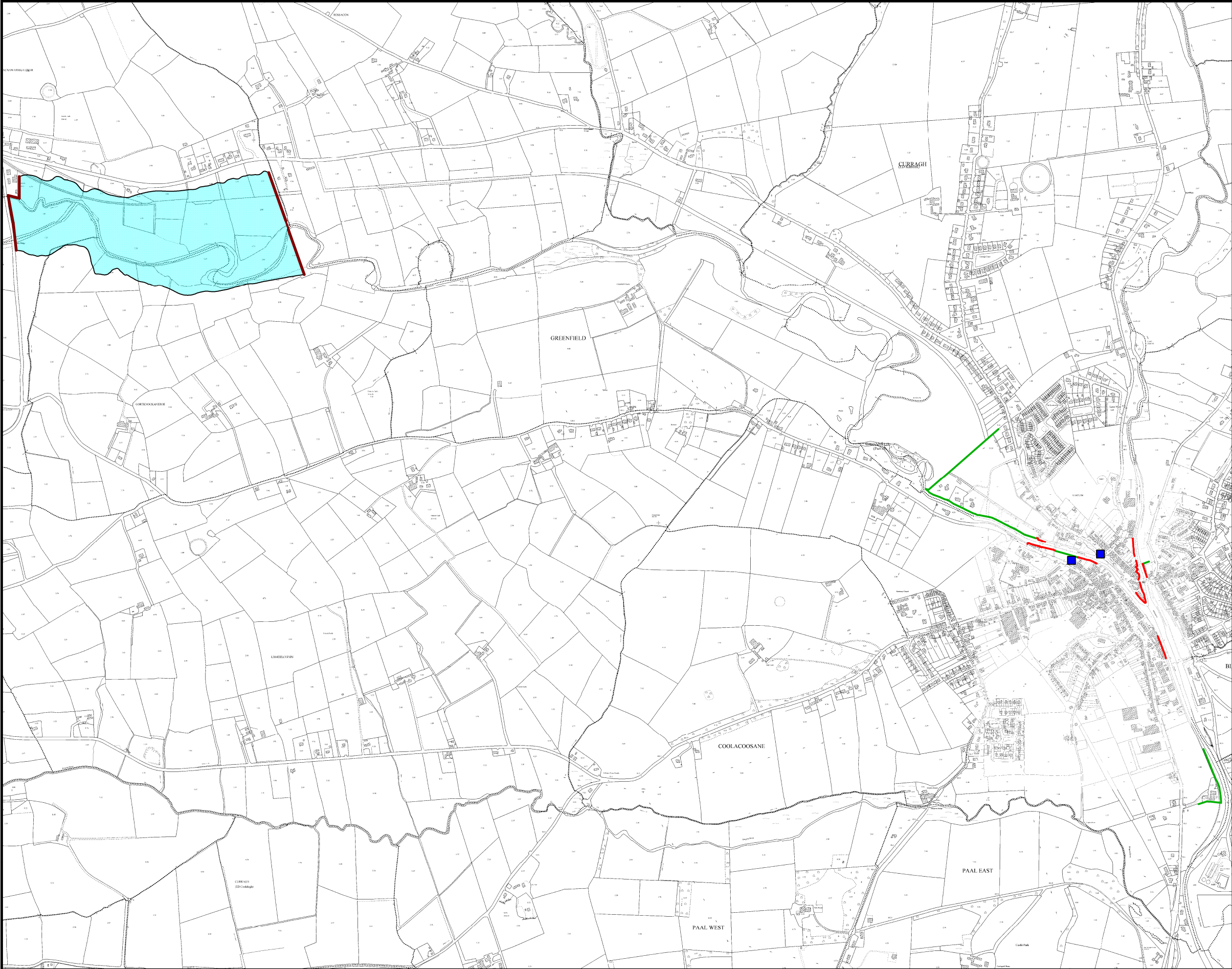
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Little Island, Cork

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Map : Kanturk Fluvial Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-KK-204-P1
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Storage Area

Storage Embankment

Flood Defence Walls

Flood Defence Embankments

Pump Stations



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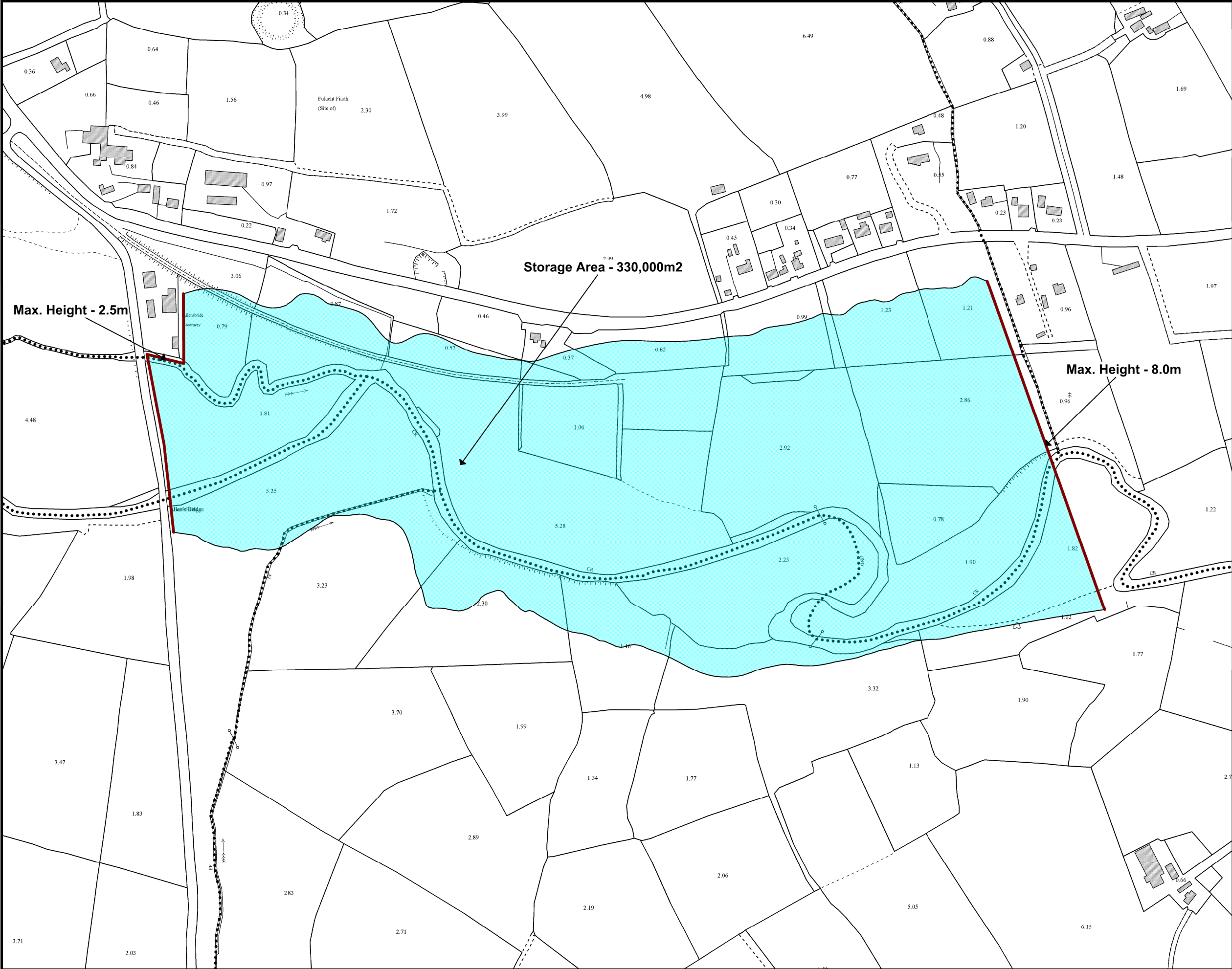
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Little Island, Cork

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Map : Kanturk - Overview Storage and Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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- Storage Area
- Storage Embankment
- Flood Defence Walls
- Flood Defence Embankments



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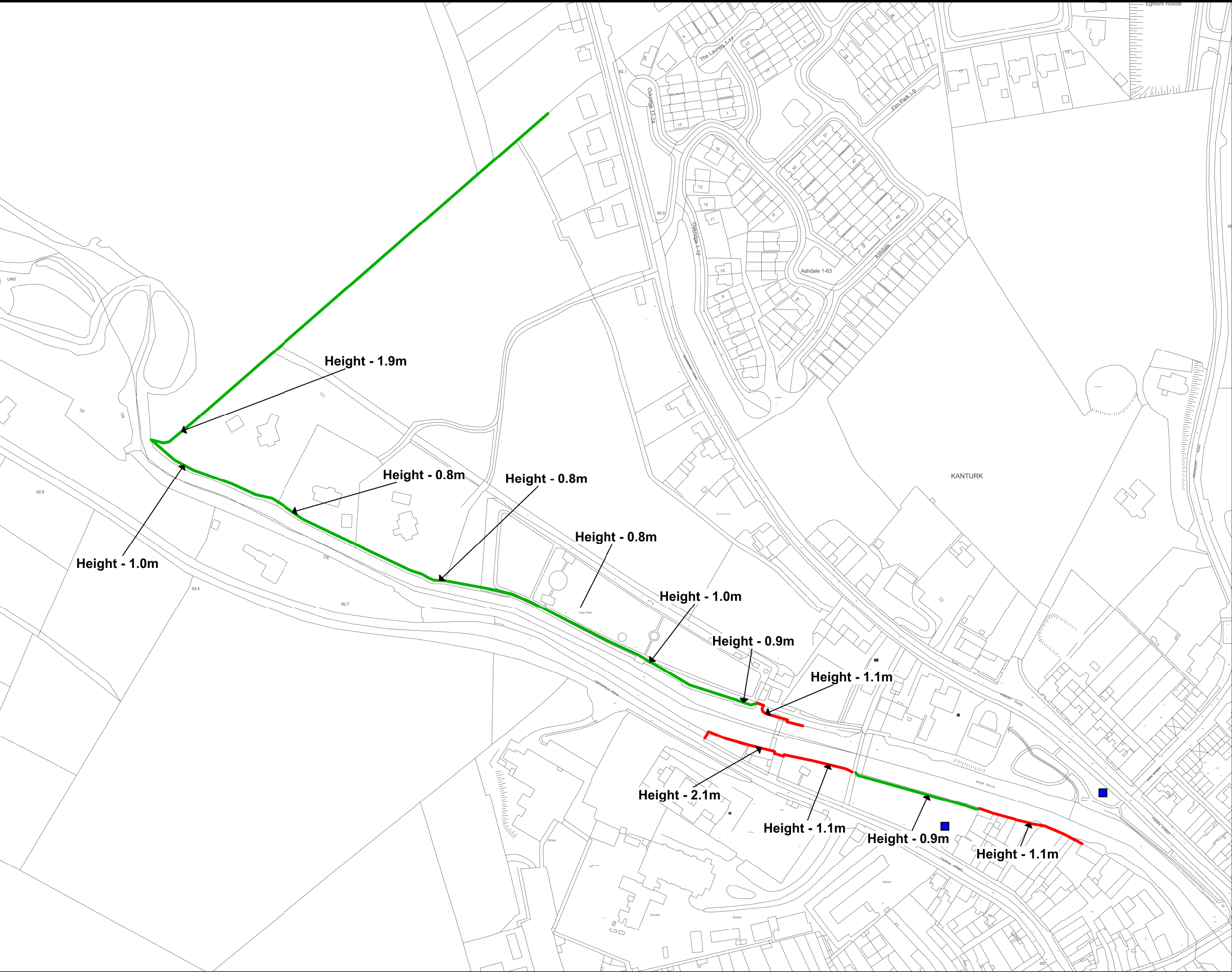
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Little Island, Cork






Project : South Western CFRAM Study	
Map : Kanturk Storage and Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-KK-206-P1
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Storage Area

Storage Embankment

Flood Defence Walls

Flood Defence Embankments

Pump Stations




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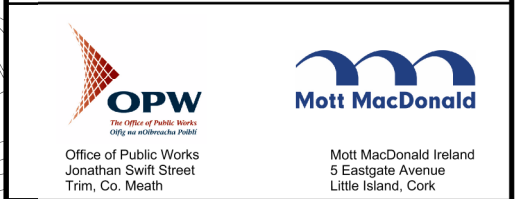
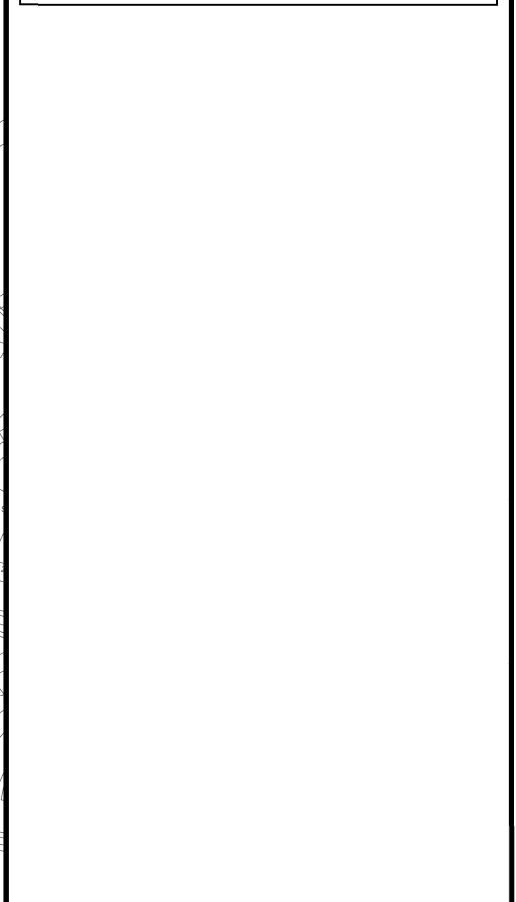
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Project : South Western CFRAM Study	
Map : Kanturk Storage and Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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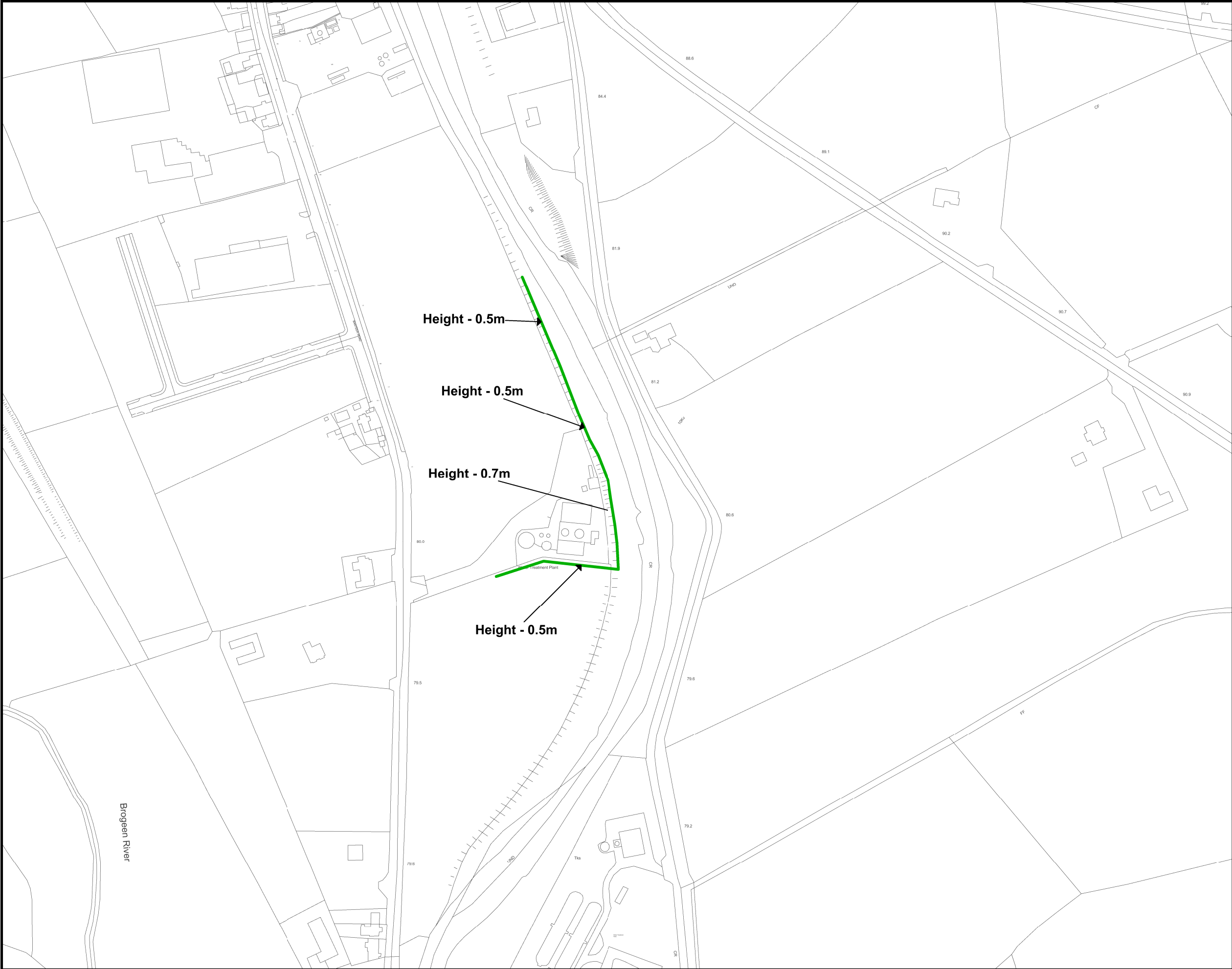


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Project :	
South Western CFRAM Study	
Map : Kanturk Storage and Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.: MMD-296235-E-DR-18-KK-208-P1	
Sheet:	3 of 4
Revision:	P1
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- Storage Area
- Storage Embankment
- Flood Defence Walls
- Flood Defence Embankments



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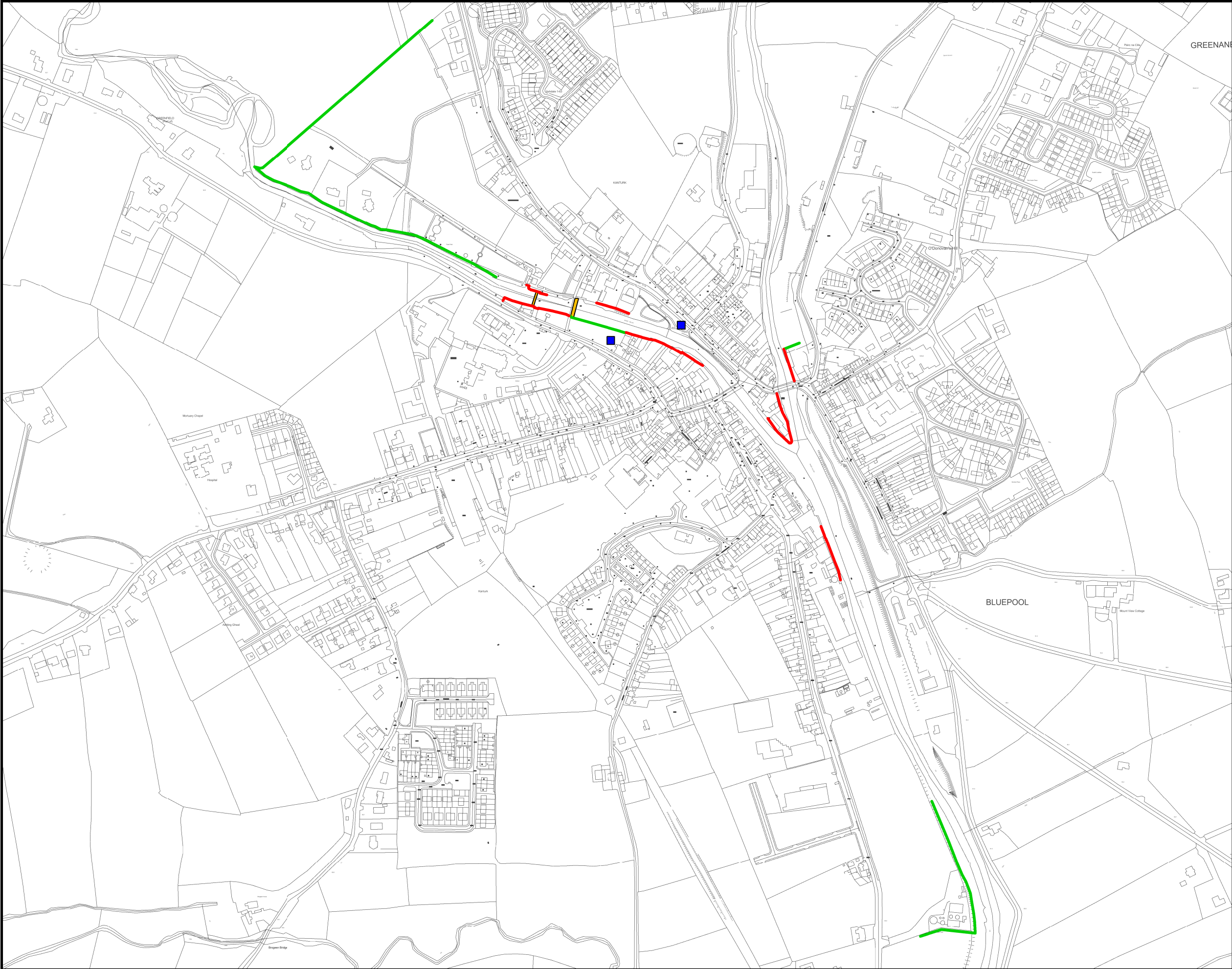
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5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Kanturk Storage and Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-KK-209-P1
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Flood Defence Walls



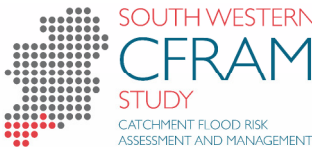
Flood Defence Embankments



Remove Weirs



Pump Stations



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Trim, Co. Meath



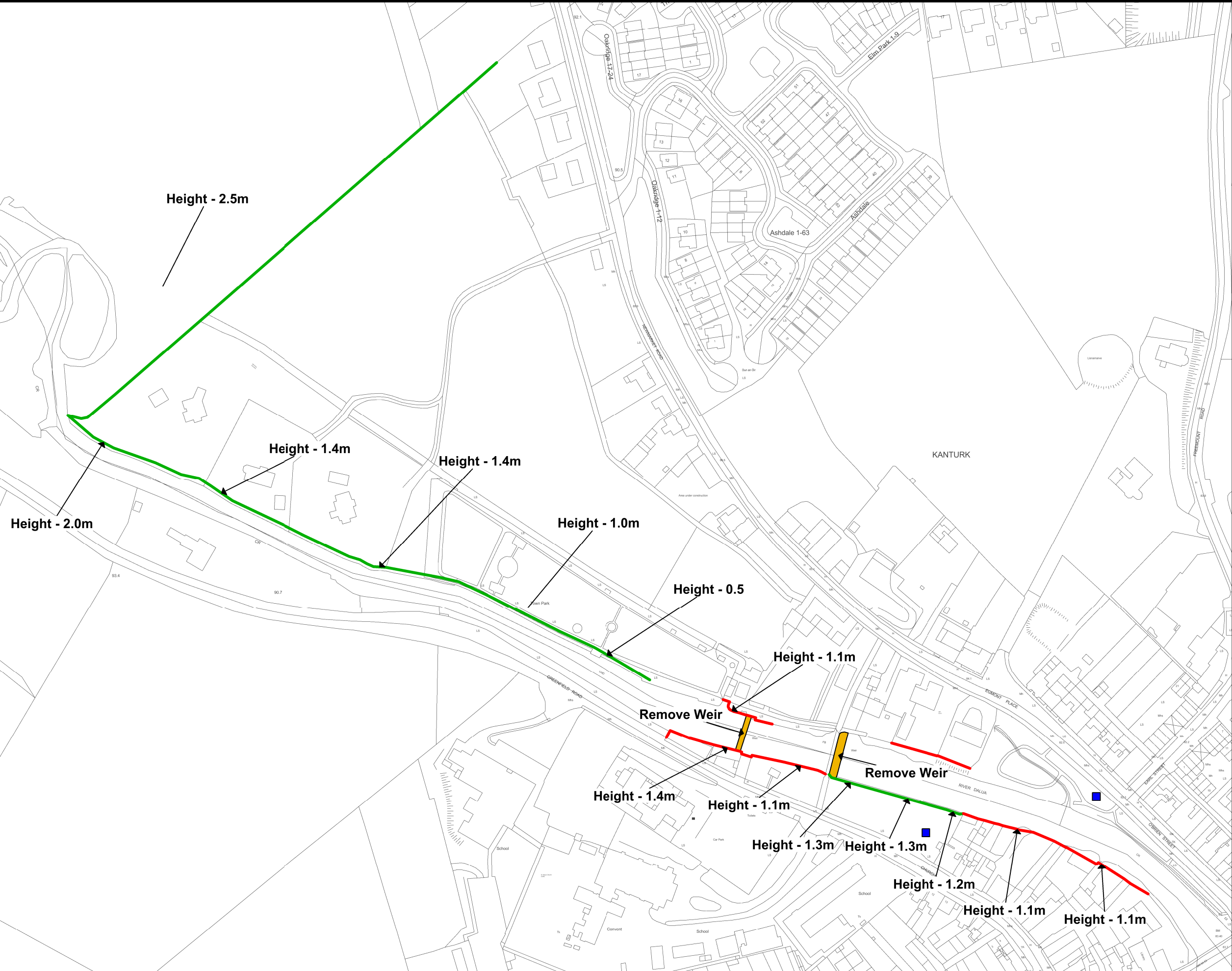
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5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Kanturk Flood Defences & Conveyance - Overview	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-KK-210-P1
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Flood Defence Walls

Flood Defence Embankments

Remove Weir



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5 Eastgate Avenue
Little Island, Cork

Project :

South Western CFRAM Study

Map : Kanturk

Flood Defences & Conveyance

Map Type:

Preliminary Options

Source:

Fluvial Flooding

Map Area:

Urban Area

Scenario:

Current

Drawn by:

Tony Donovan

Checked by:

Barry O'Connor

Approved by:

Fintan McGivern

Map No.:

MMD-296235-E-DR-18-KK-211-P1

Sheet:

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Revision:

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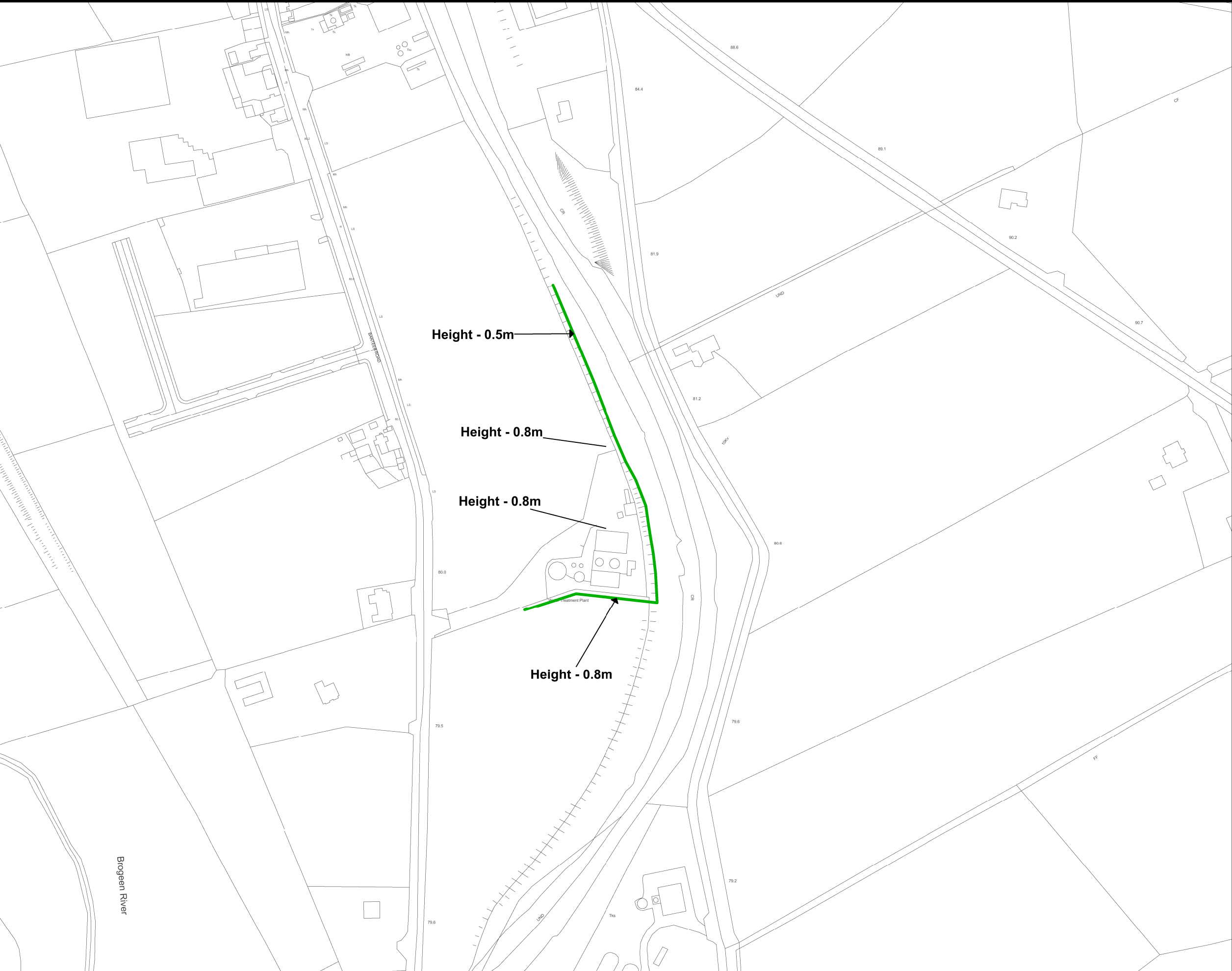
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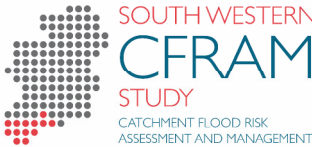


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- Flood Defence Walls
- Flood Defence Embankments
- Remove Weir



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Project : South Western CFRAM Study	
Map : Kanturk Flood Defences & Conveyance	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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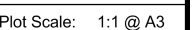
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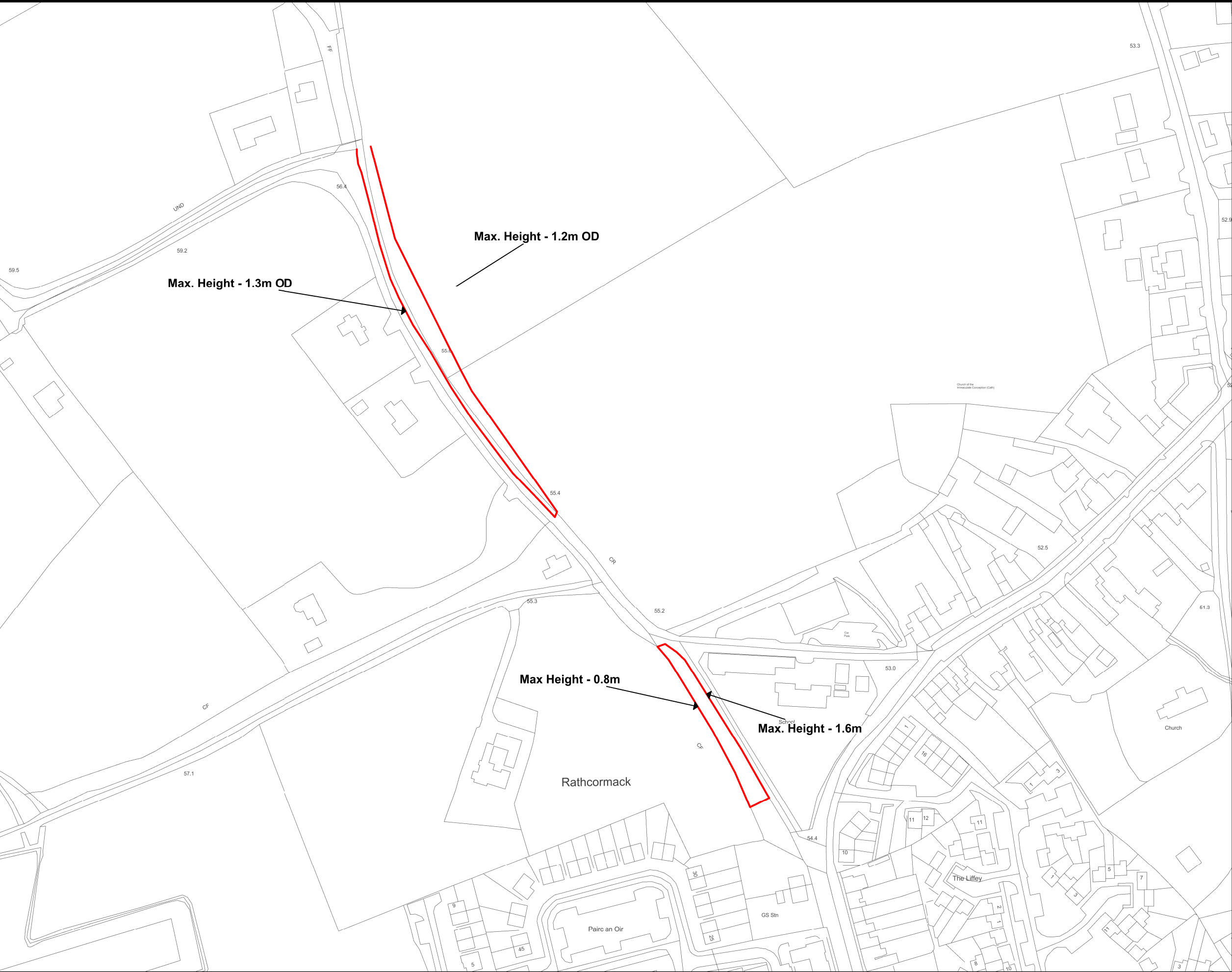


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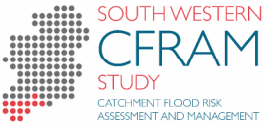
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Plot Scale: 1:1 @ A3



Flood Defence Walls



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Trim, Co. Meath



Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project :

South Western CFRAM Study

Map : Rathcormack
Fluvial Flood Defences

Map Type: Preliminary Options

Source: Fluvial Flooding

Map Area: Urban Area

Scenario: Current

Drawn by: Tony Donovan

Checked by: Barry O'Connor

Approved by: Fintan McGivern

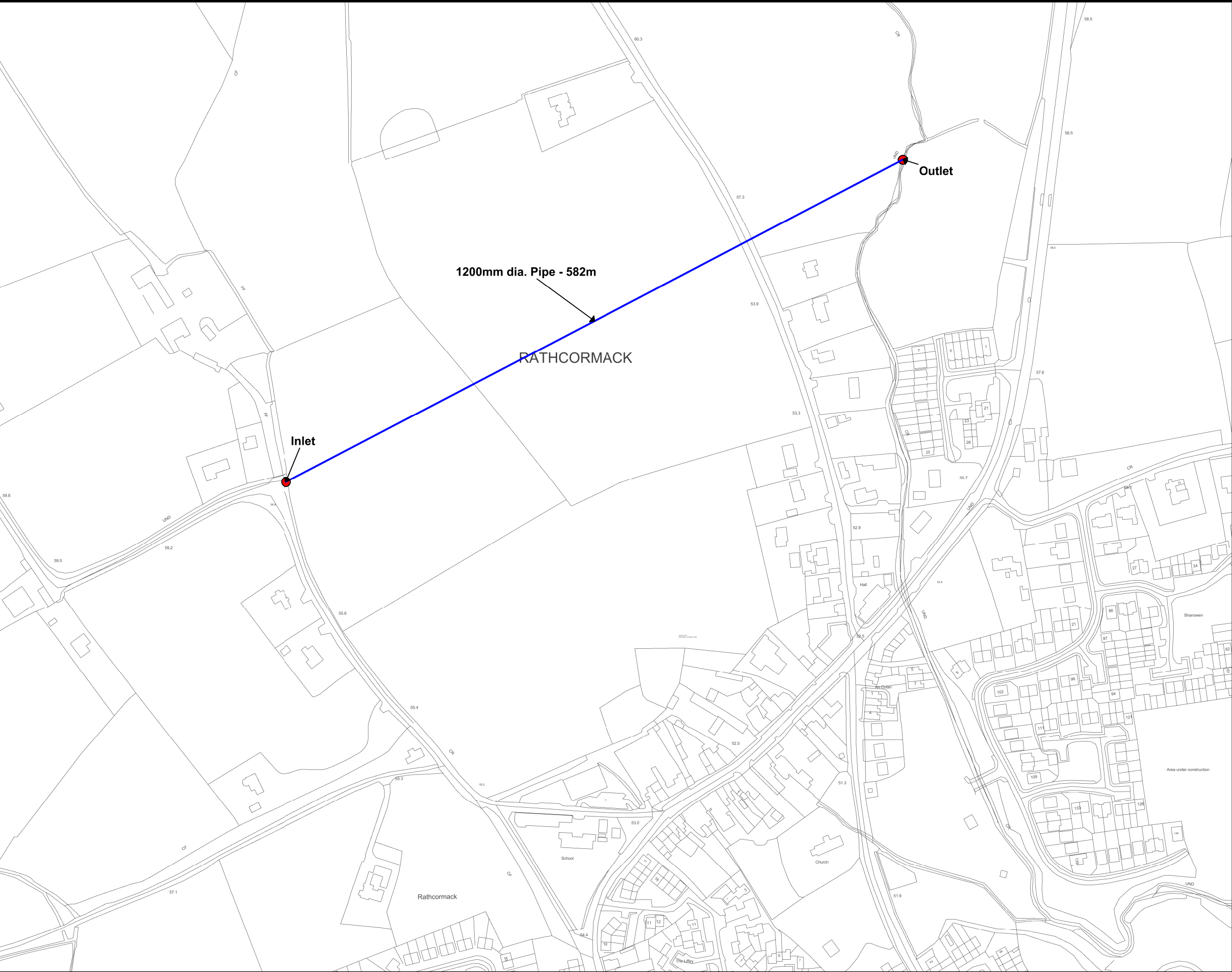
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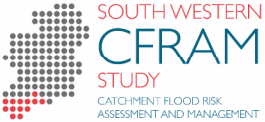
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Flow Diversion

Inlet / Outlet

Culvert



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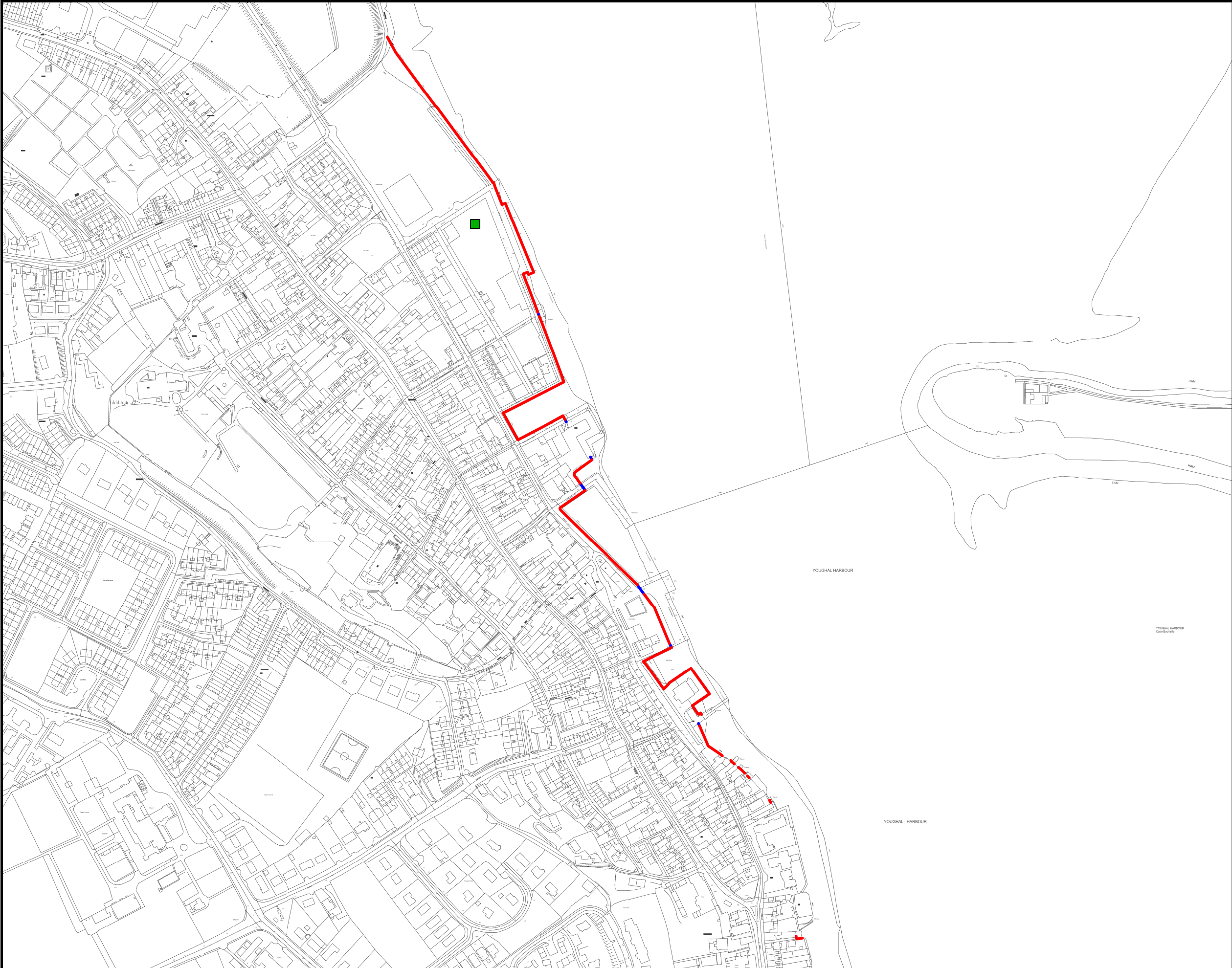


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5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Rathcormac Fluvial Flow Diversion	
Map Type:	Preliminary Options
Source:	Fluvial Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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Flood Defence Walls

Removable Flood Defence Barriers

Pump Station



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Little Island, Cork

Project :
South Western CFRAM Study

Map : Youghal
Flood Defences - Overview

Map Type: Preliminary Options

Source: Tidal Flooding

Map Area: Urban Area

Scenario: Current

Drawn by: Tony Donovan

Checked by: Barry O'Connor

Approved by: Fintan McGivern

Map No.: MMD-296235-E-DR-18-YL-201-P1

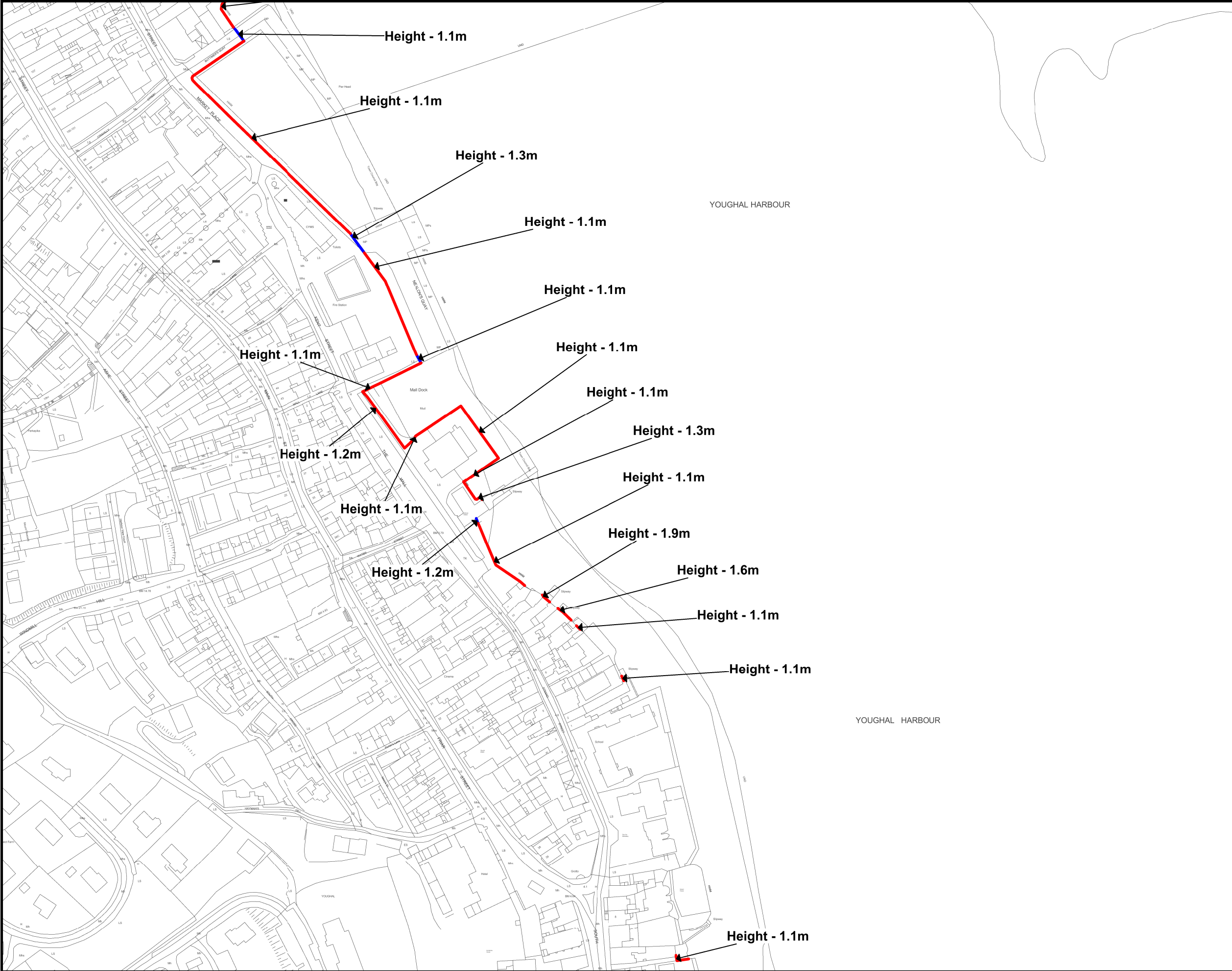
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Drawing Scale: NTS Plot Scale: 1:1 @ A3



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Flood Defence Walls

Removable Flood Defence Barriers

Pump Station



Office of Public Works
Jonathan Swift Street
Trim, Co. Meath



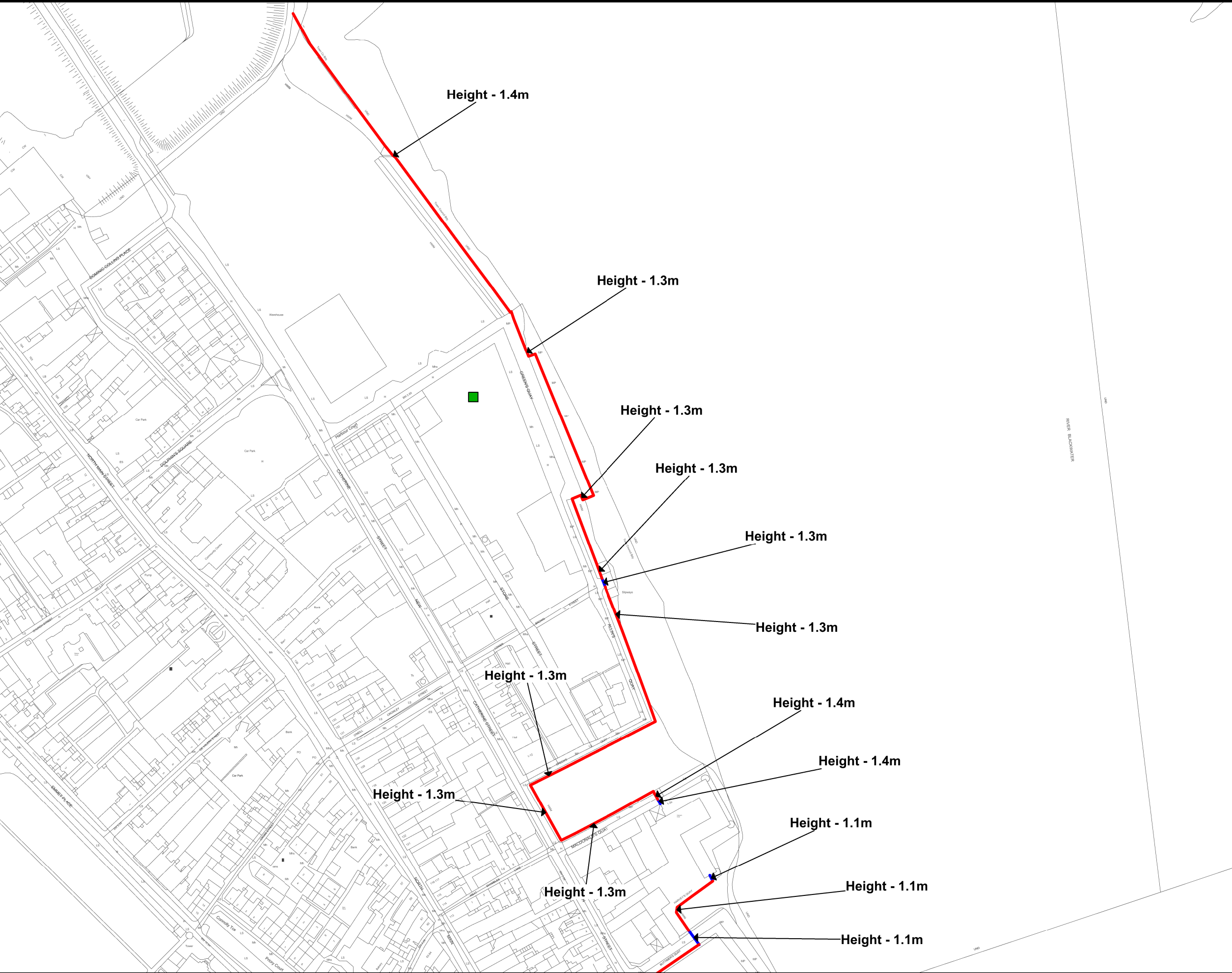
Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Youghal Flood Defences	
Map Type:	Preliminary Options
Source:	Tidal Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-YL-202-P1
Sheet:	1 of 2
Revision:	P1
Drawing Scale:	NTS
Plot Scale:	1:1 @ A3



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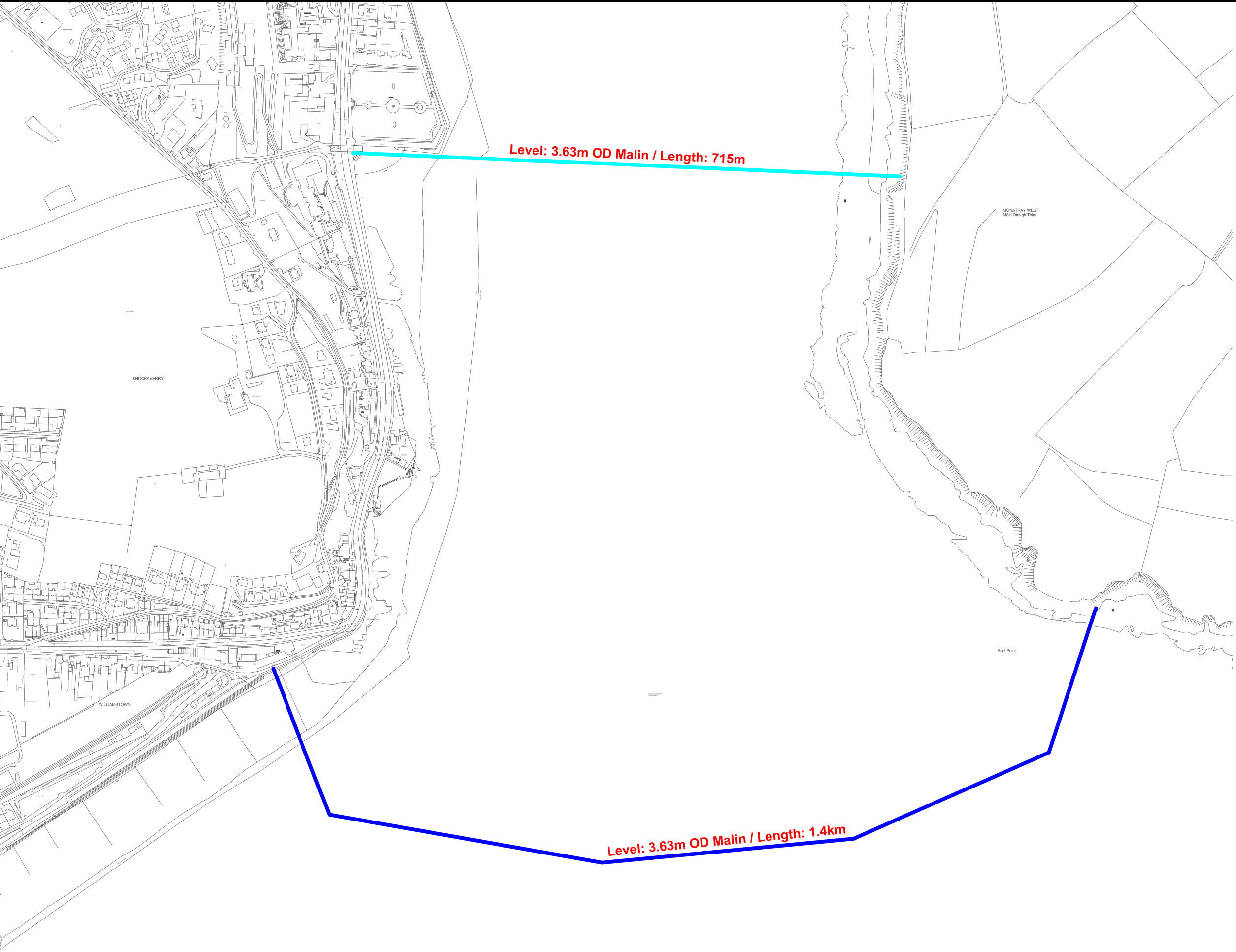
Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project : South Western CFRAM Study	
Map : Youghal Flood Defences	
Map Type:	Preliminary Options
Source:	Tidal Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-18-YL-203-P1
Sheet:	2 of 2
Drawing Scale:	NTS
Revision:	P1
Plot Scale:	1:1 @ A3



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Tidal Barrage - Option A

Tidal Barrage - Option B



Office of Public Works
Jonathan Swift Street
Trim, Co. Meath



Mott MacDonald Ireland
5 Eastgate Avenue
Little Island, Cork

Project :
South Western CFRAM Study

Map : Youghal
Tidal Barrage

Map Type: Preliminary Options

Source: Tidal Flooding

Map Area: Urban Area

Scenario: Current

Drawn by: Tony Donovan

Checked by: Barry O'Connor

Approved by: Fintan McGivern

Map No.: MMD-296235-E-DR-18-YL-204-P1

Sheet: 1 of 1 Revision: P1

Drawing Scale: NTS Plot Scale: 1:1 @ A3



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