

# South Western CFRAM Study

Preliminary Options Report UoM 21

July 2016

The Office of Public Works

# South Western CFRAM Study

Preliminary Options Report UoM 21

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	December 2015	TD / RM / JD	B. O'Connor	F. McGivern	Draft Issue
B	March 2016	T. Donovan	B. O'Connor	F. McGivern	Draft Issue
C	May 2016	T Donovan	B O'Connor	F McGivern	Draft Final
D	June 2016	T. Donovan	B. O'Connor	F. McGivern	Final
E	July 2016	J Desmond	T Donovan	F McGivern	Final

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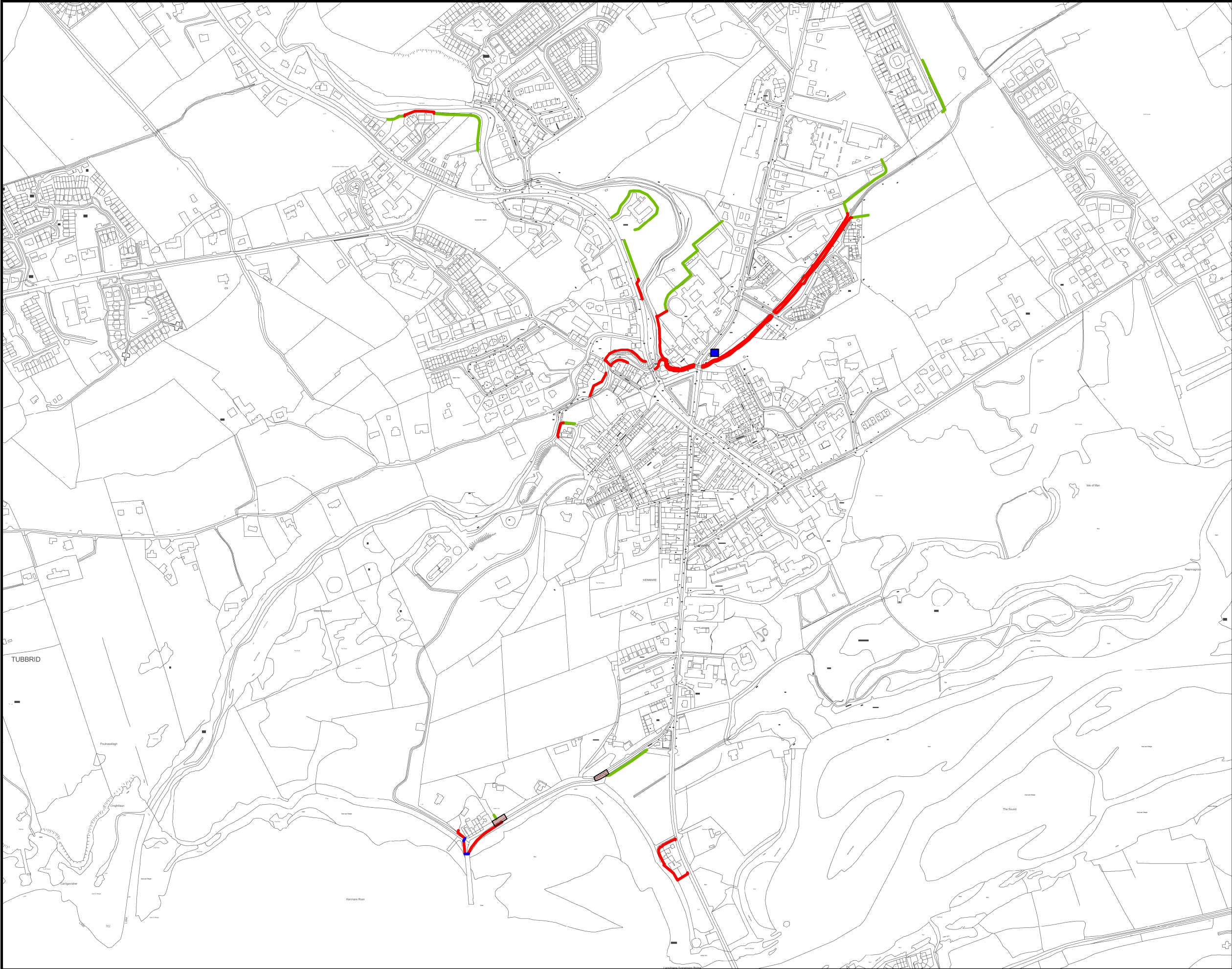
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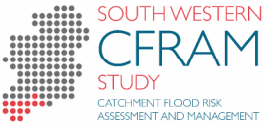
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## Appendix B. Drawings of Potential FRM Options



Flood Defence Walls  
Flood Defence Embankments  
Flood Barriers / Gates  
Road Raising  
Pump Station



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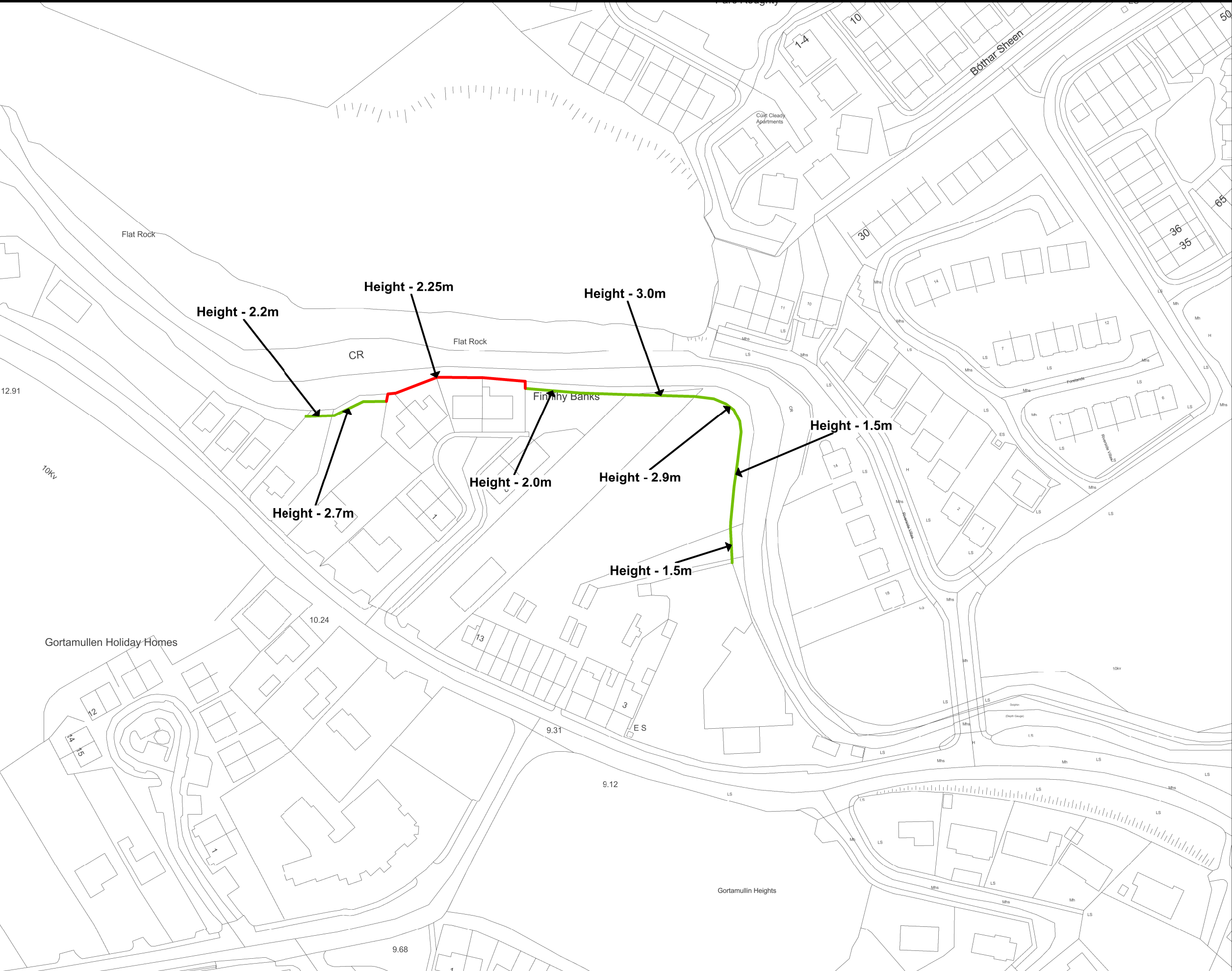
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Map : Kenmare - Overview Flood Defences	
Map Type:	Preliminary Options
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Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
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Road Raising

Pump Station



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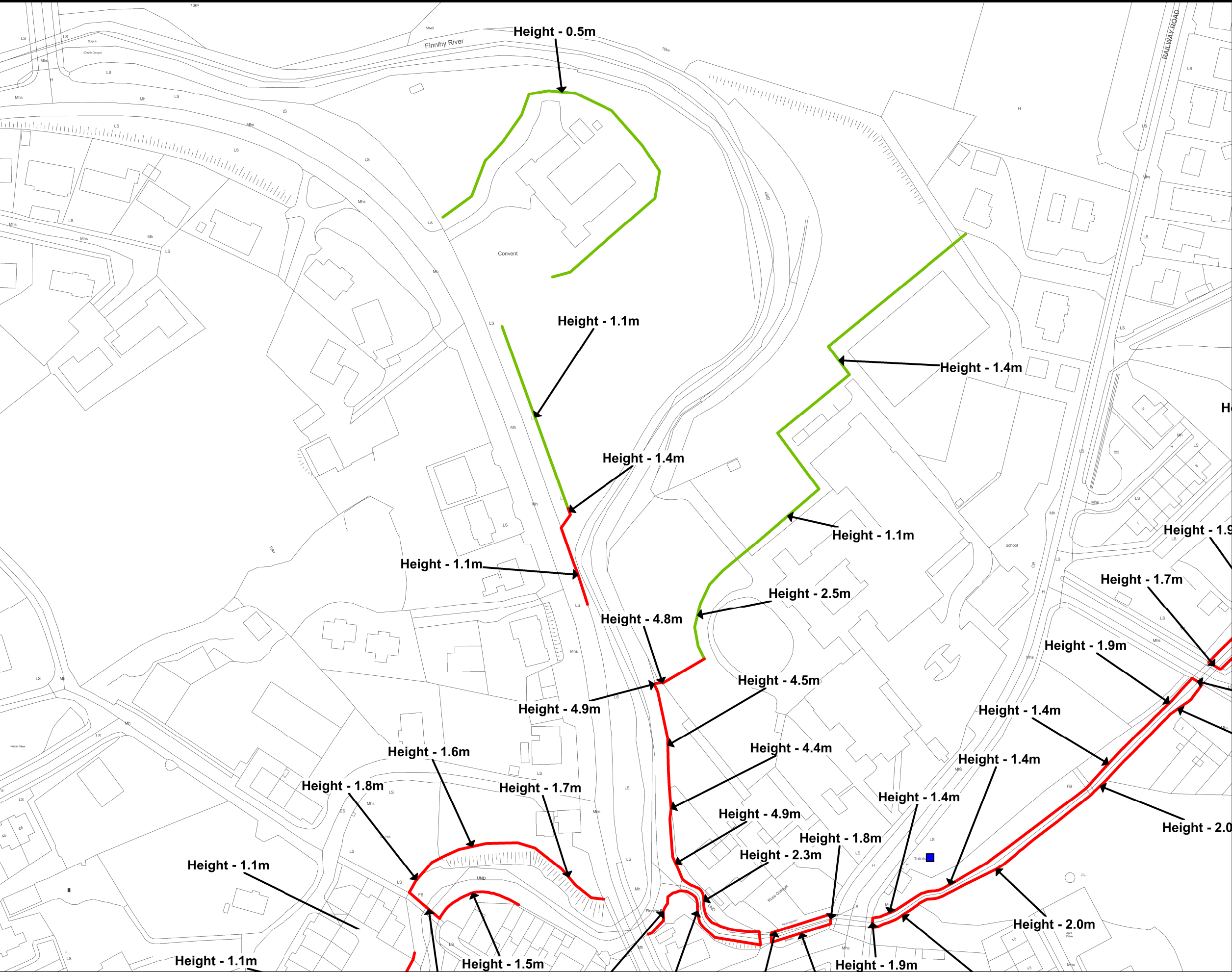
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Project :  
**South Western CFRAM Study**

Map : **Kenmare  
Flood Defences**

Map Type: Preliminary Options

Source: Fluvial and Tidal Flooding

Map Area: Urban Area

Scenario: Current

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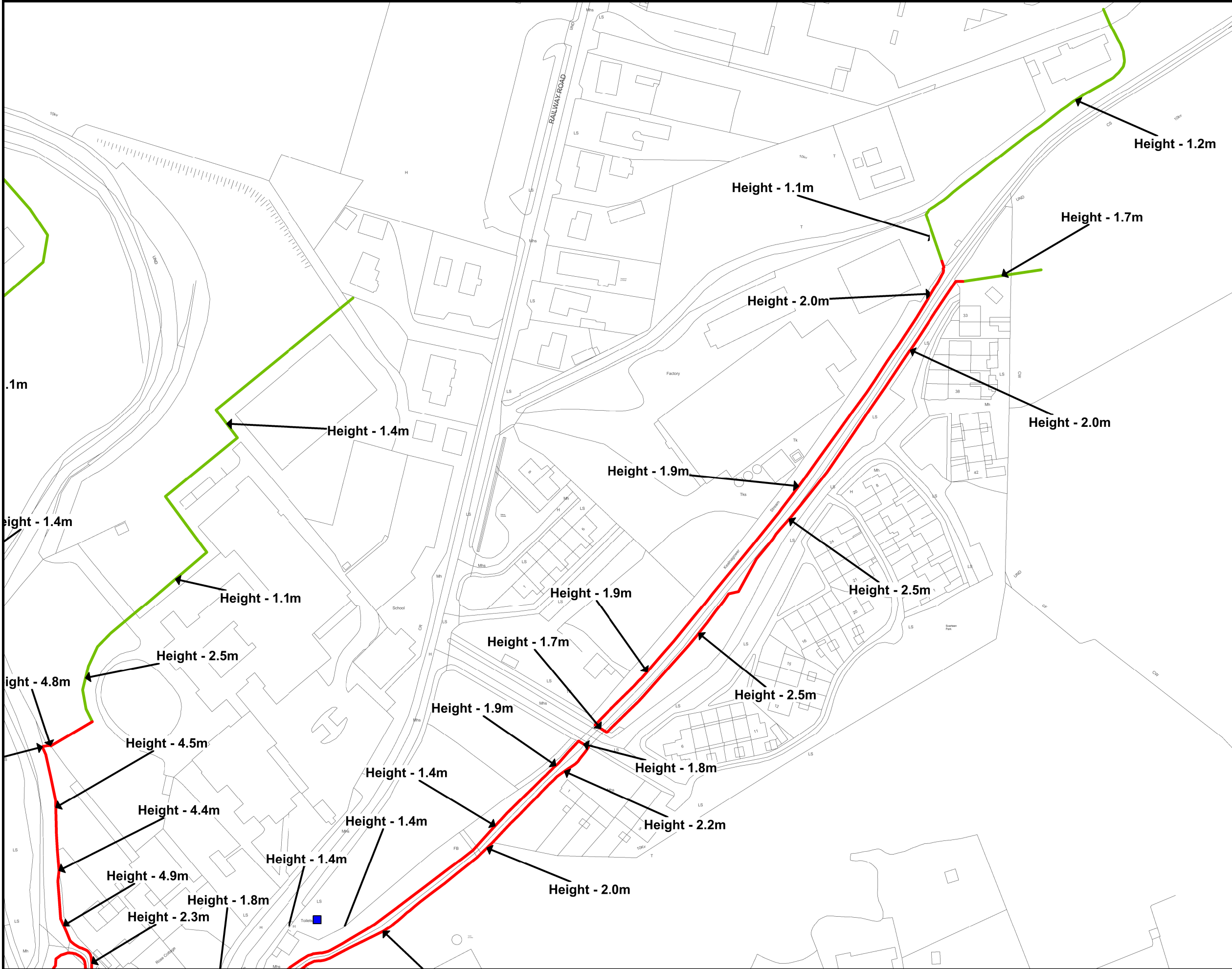


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**Flood Defence Embankments**  
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**Flood Barriers / Gates**  
—

**Road Raising**  
▨

**Pump Station**  
■

**SOUTH WESTERN**  
**CFRAM**  
STUDY  
CATCHMENT FLOOD RISK  
ASSESSMENT AND MANAGEMENT

**OPW**  
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Map Type:	Preliminary Options
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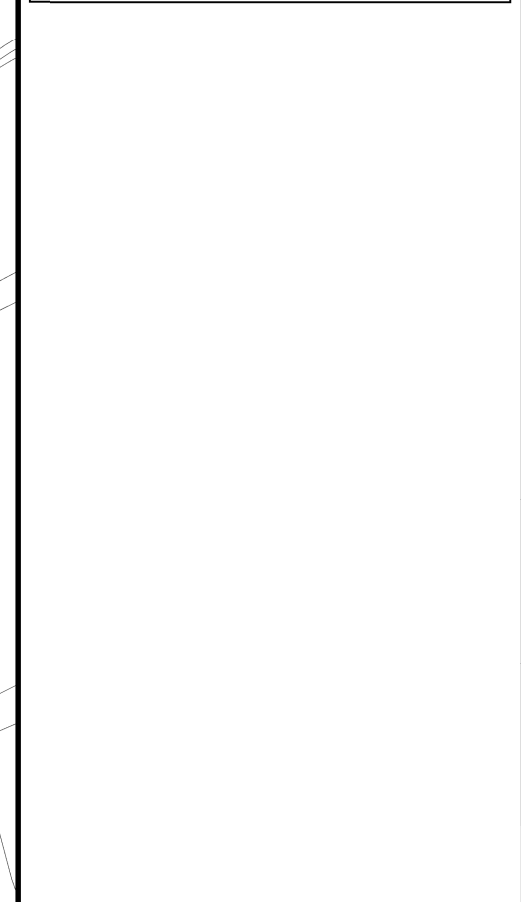


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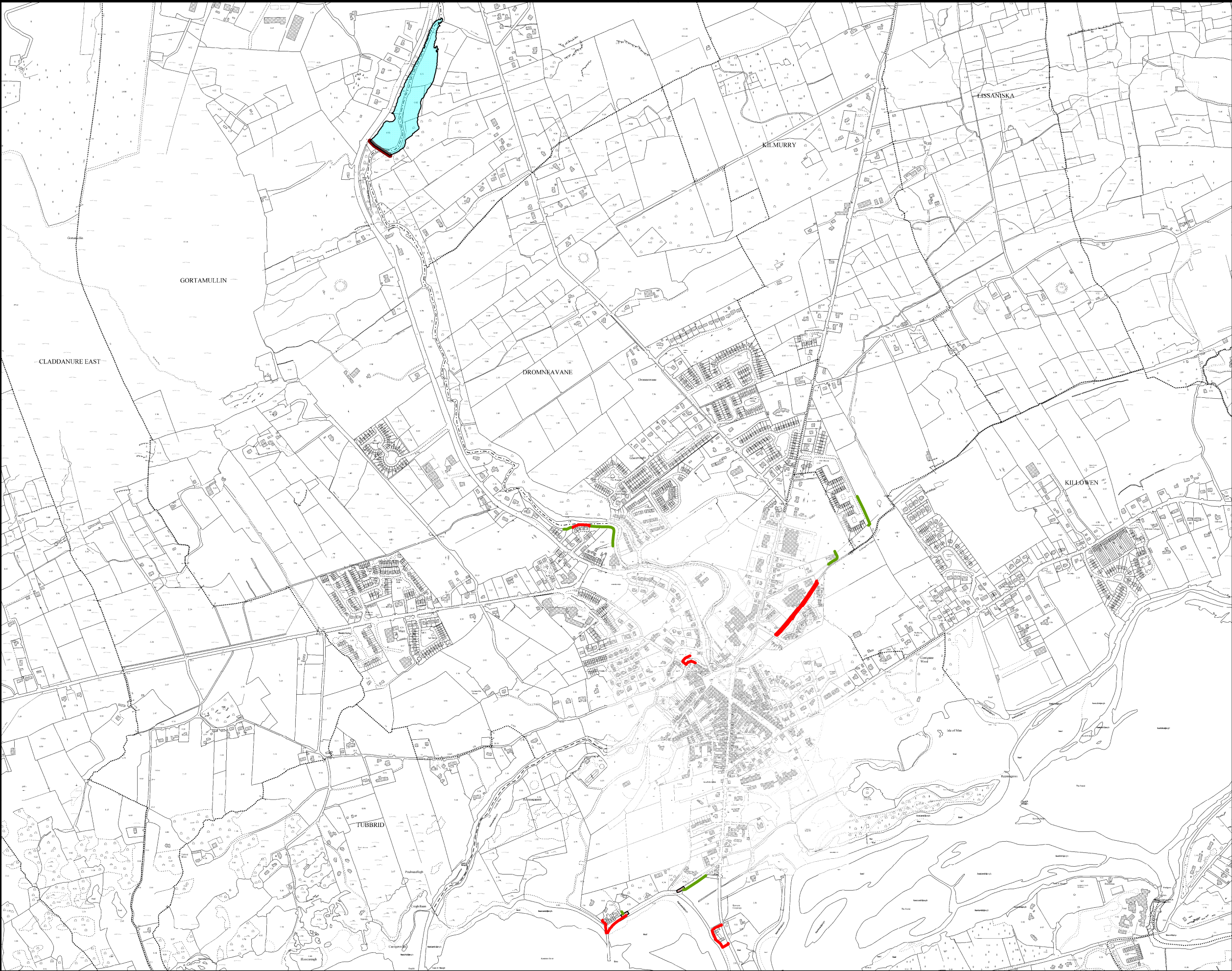
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Flood Defence Walls



Flood Defence Embankments



Storage Area



Storage Embankment



Flood Barriers / Gates



Road Raising



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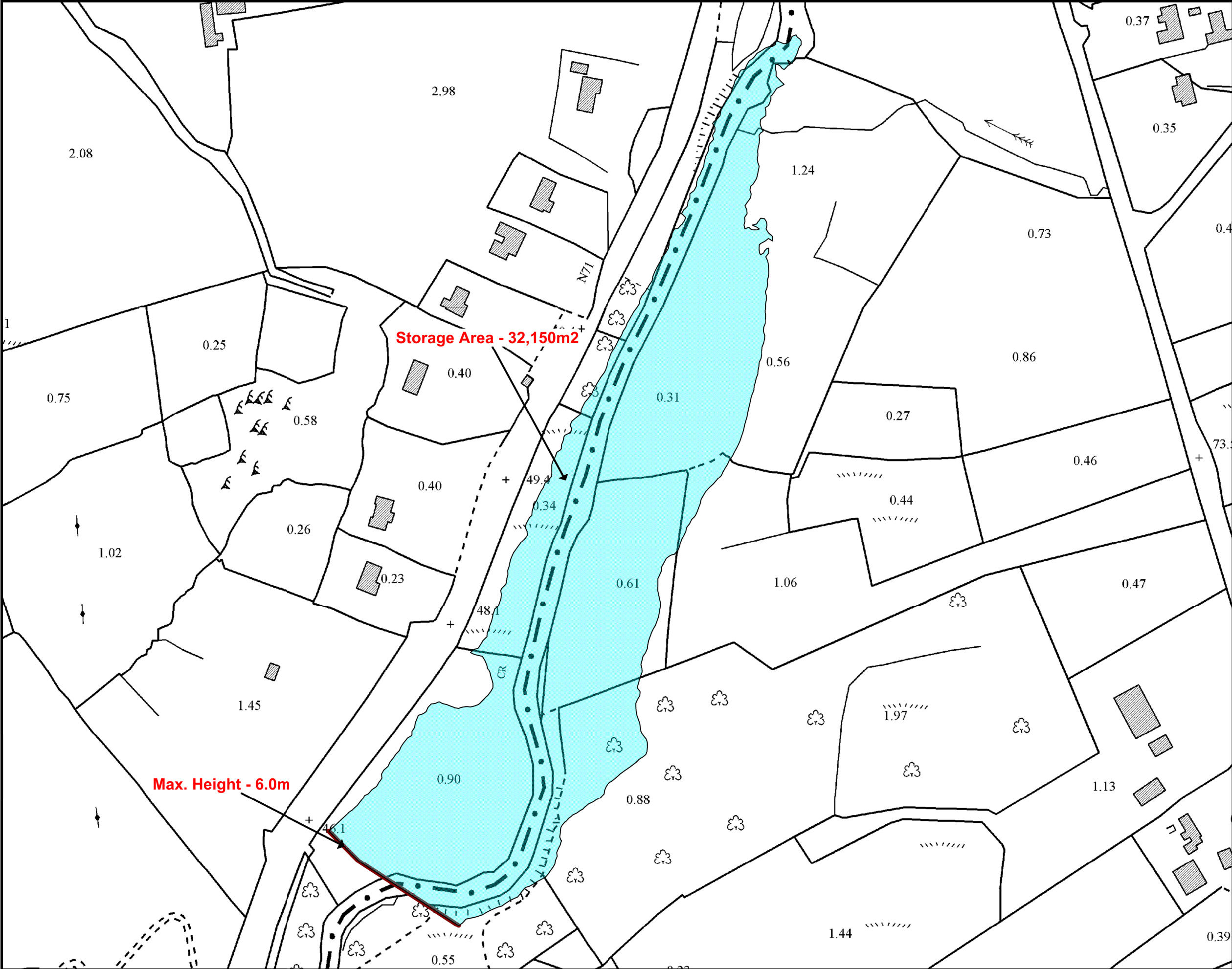
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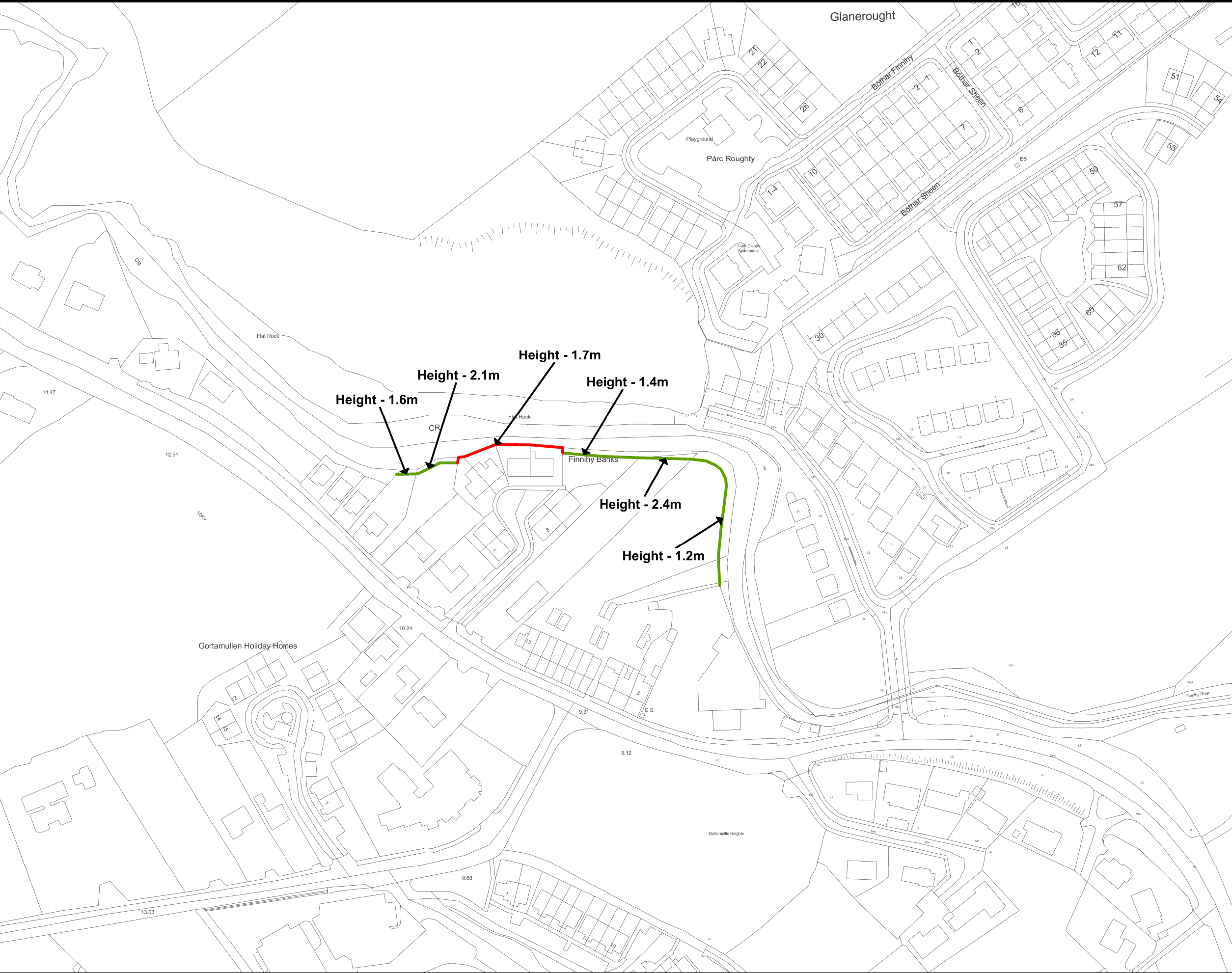


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Storage Embankment

Flood Barriers / Gates

Road Raising



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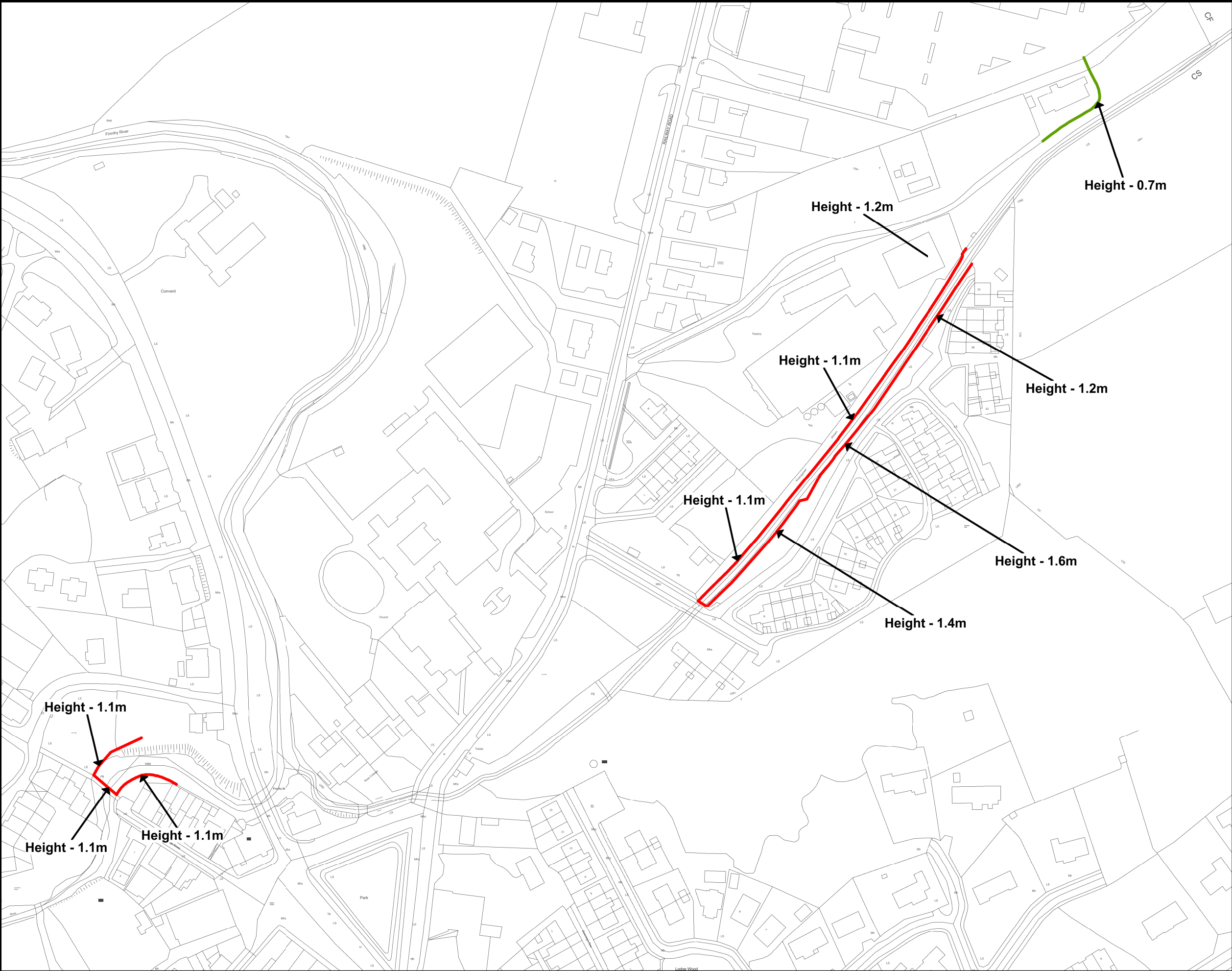
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Flood Defence Embankments



Storage Area



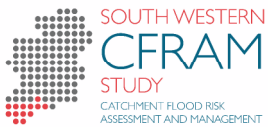
Storage Embankment



Flood Barriers / Gates



Road Raising



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Map : Kenmare - Overview  
Storage and Flood Defences

Map Type: Preliminary Options

Source: Fluvial and Tidal Flooding

Map Area: Urban Area

Scenario: Current

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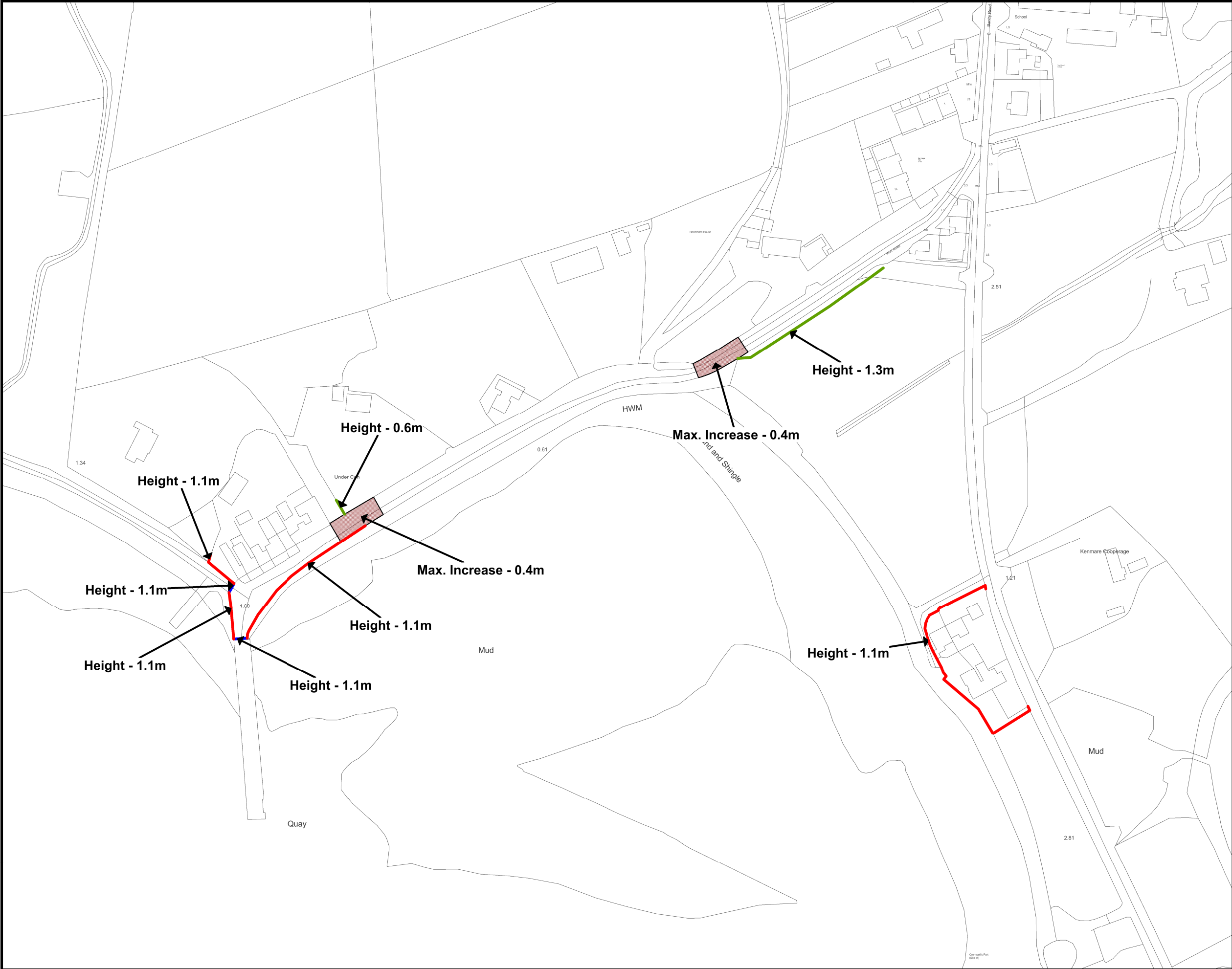
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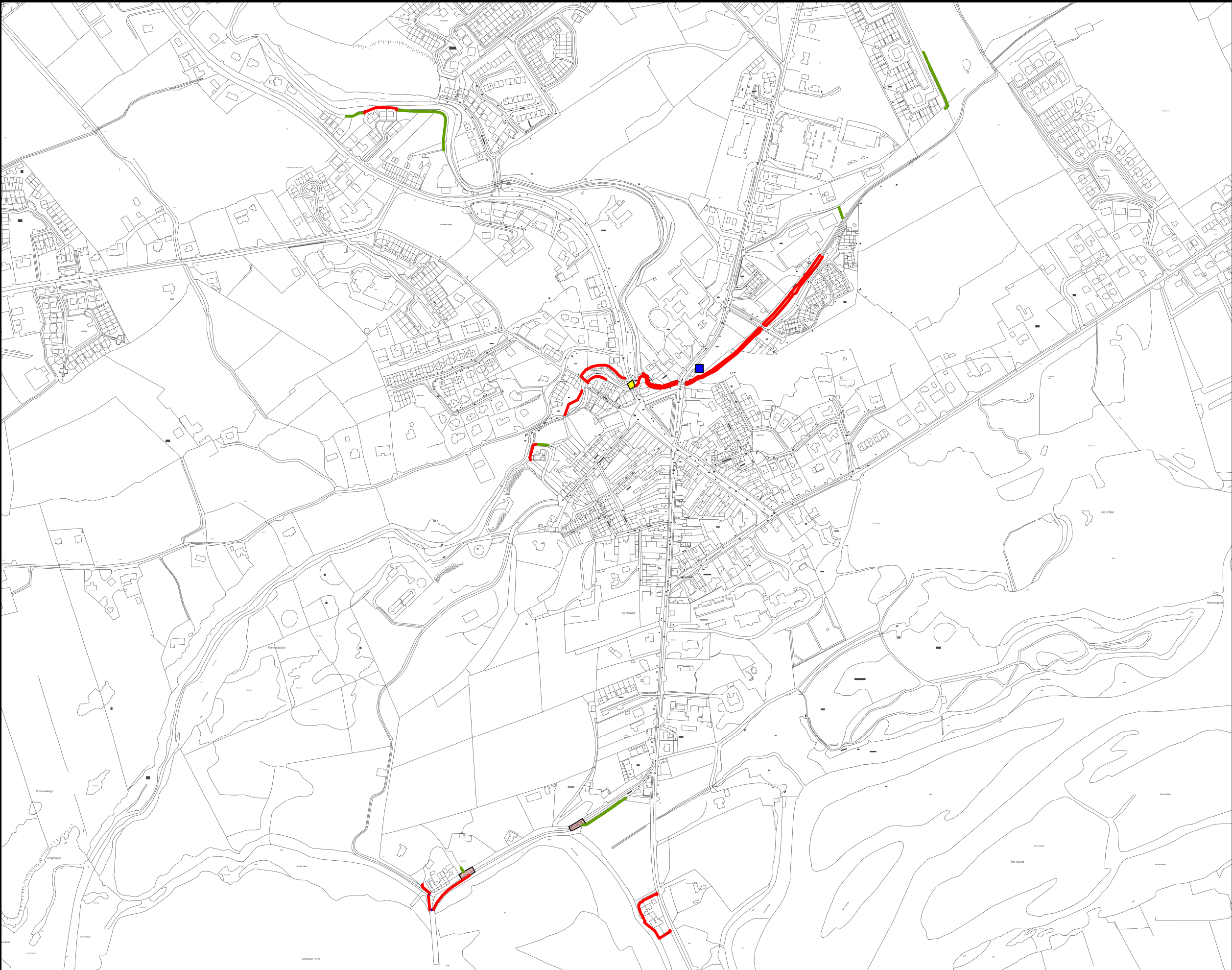
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Flood Defence Walls



Flood Defence Embankments



Flood Barriers / Gates



Road Raising



Remove Pipe Under Bridge



Pump Station



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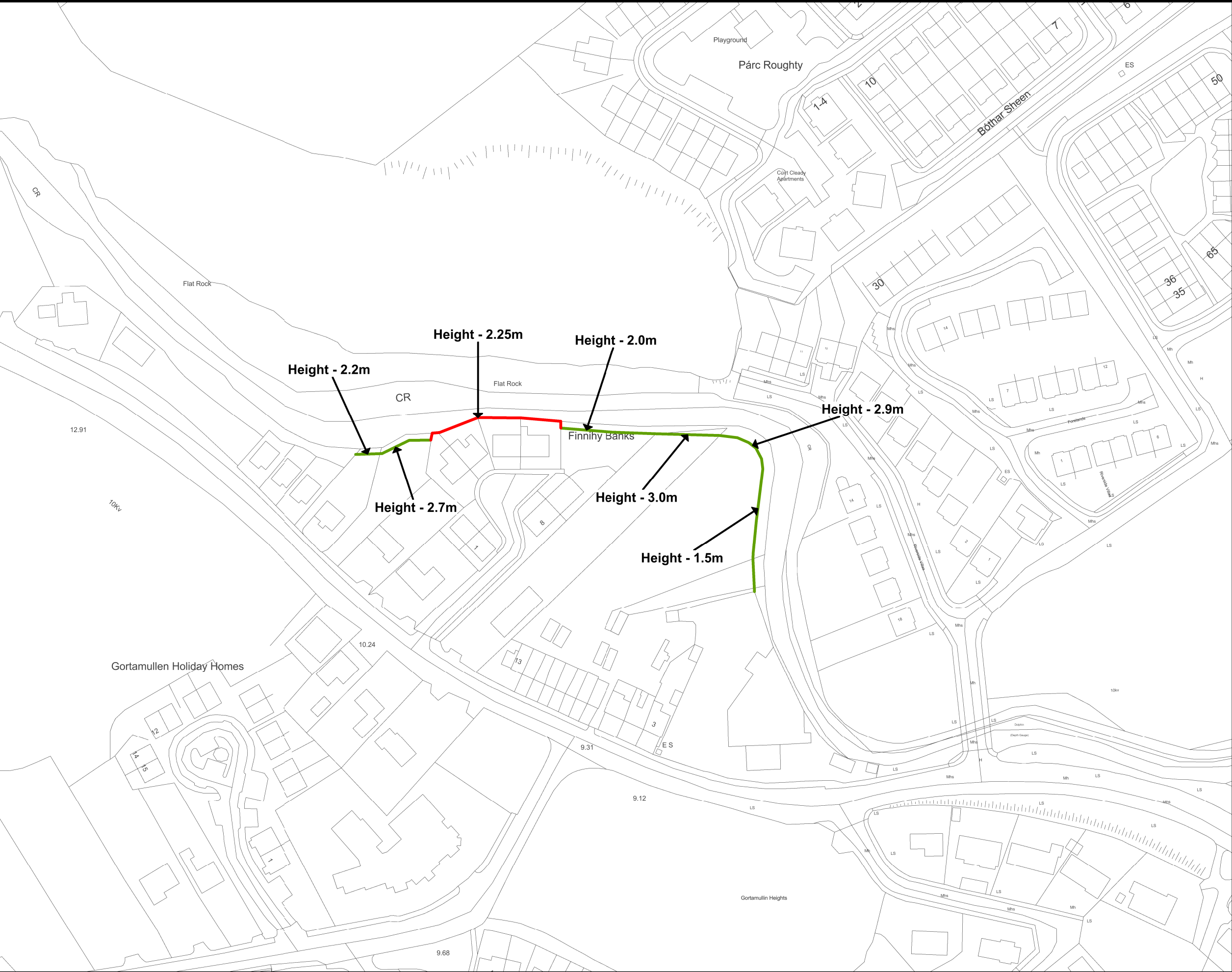
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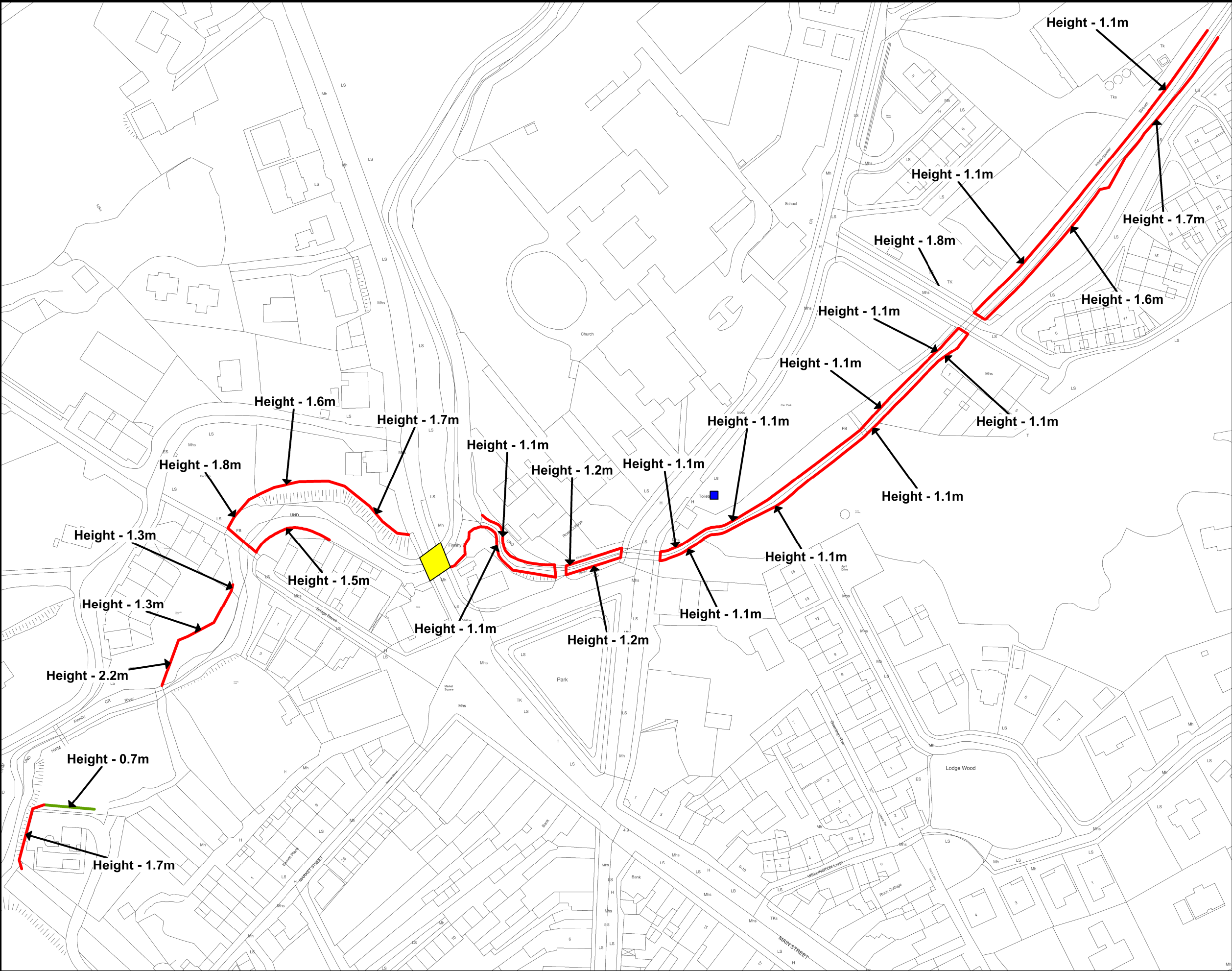
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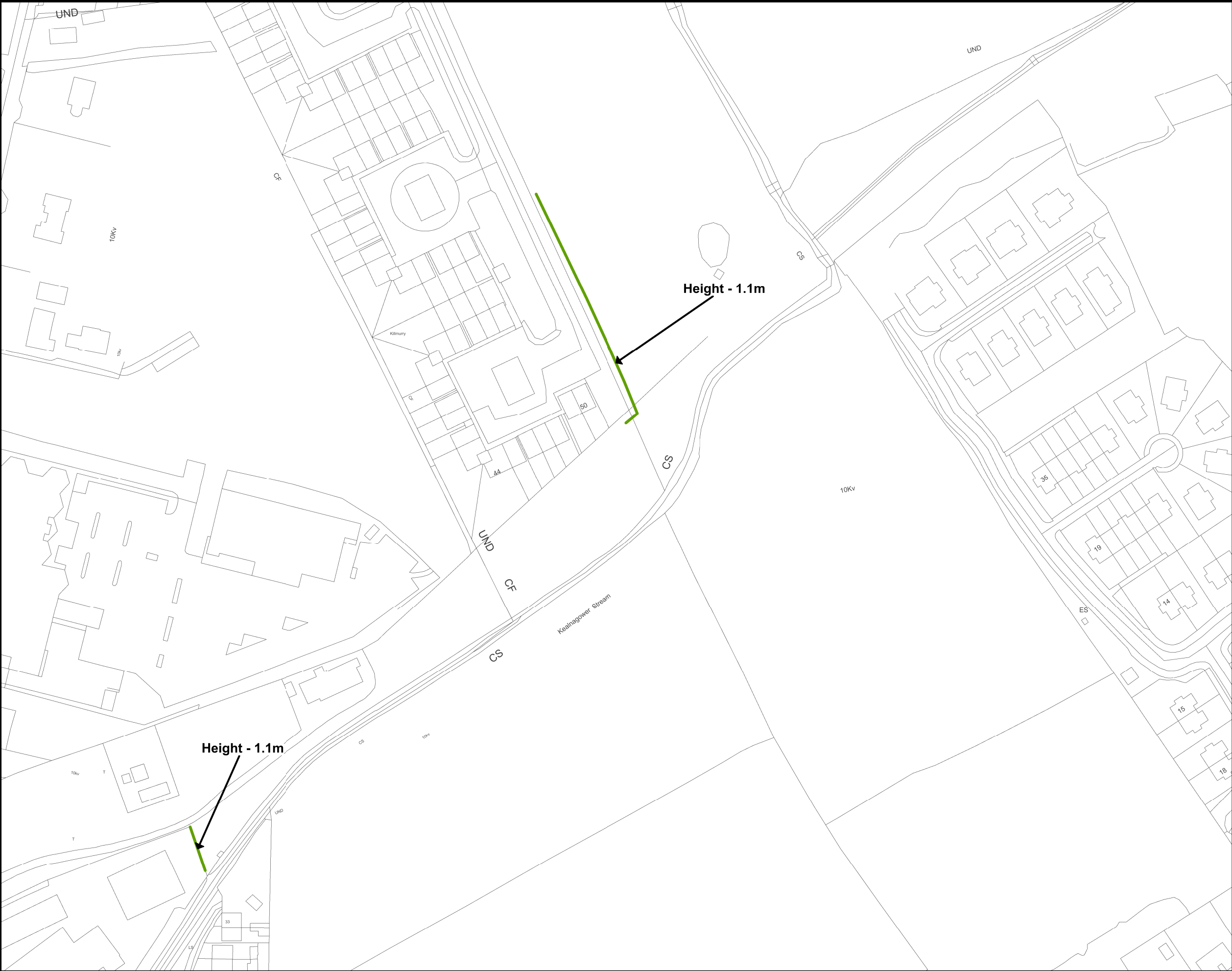
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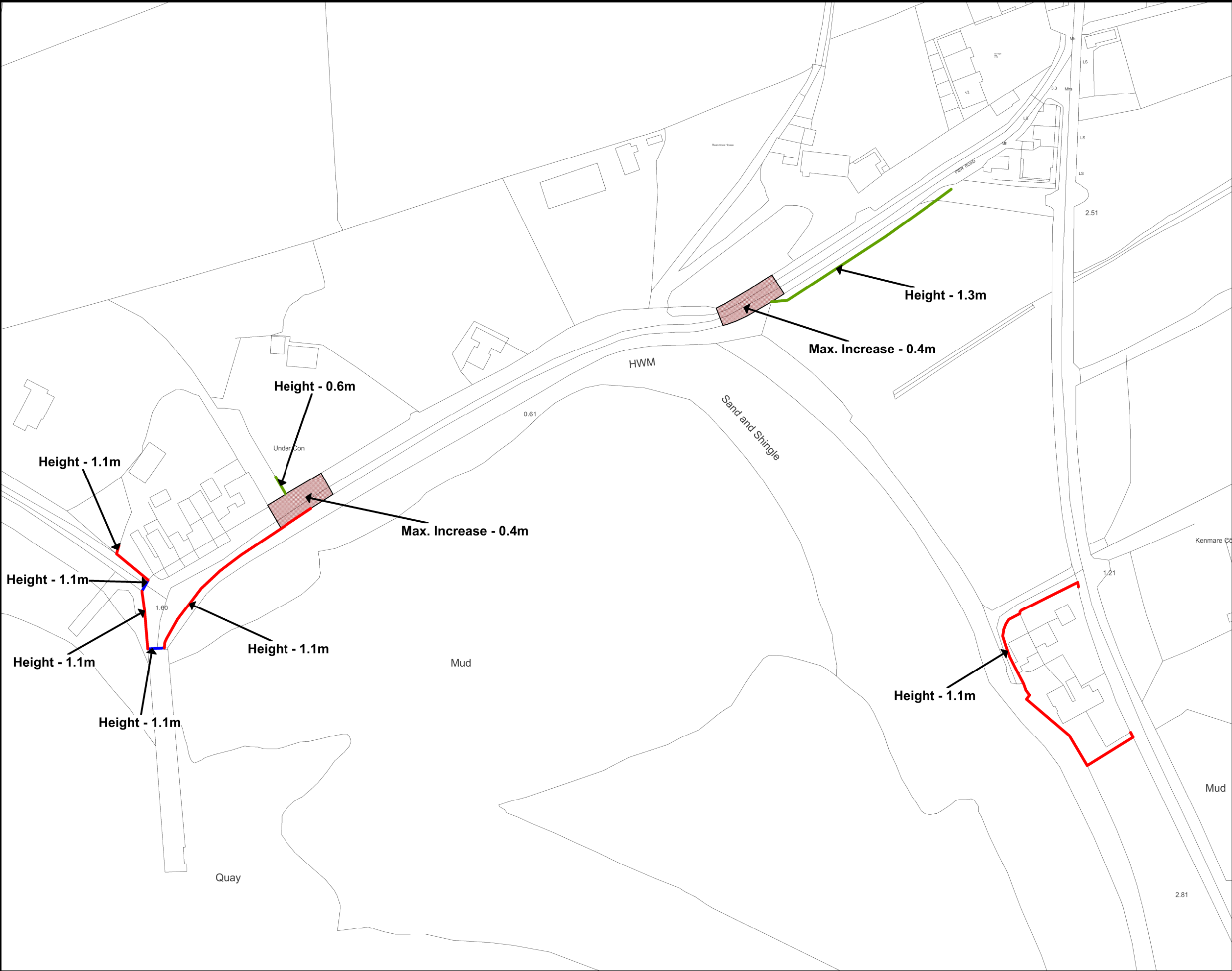
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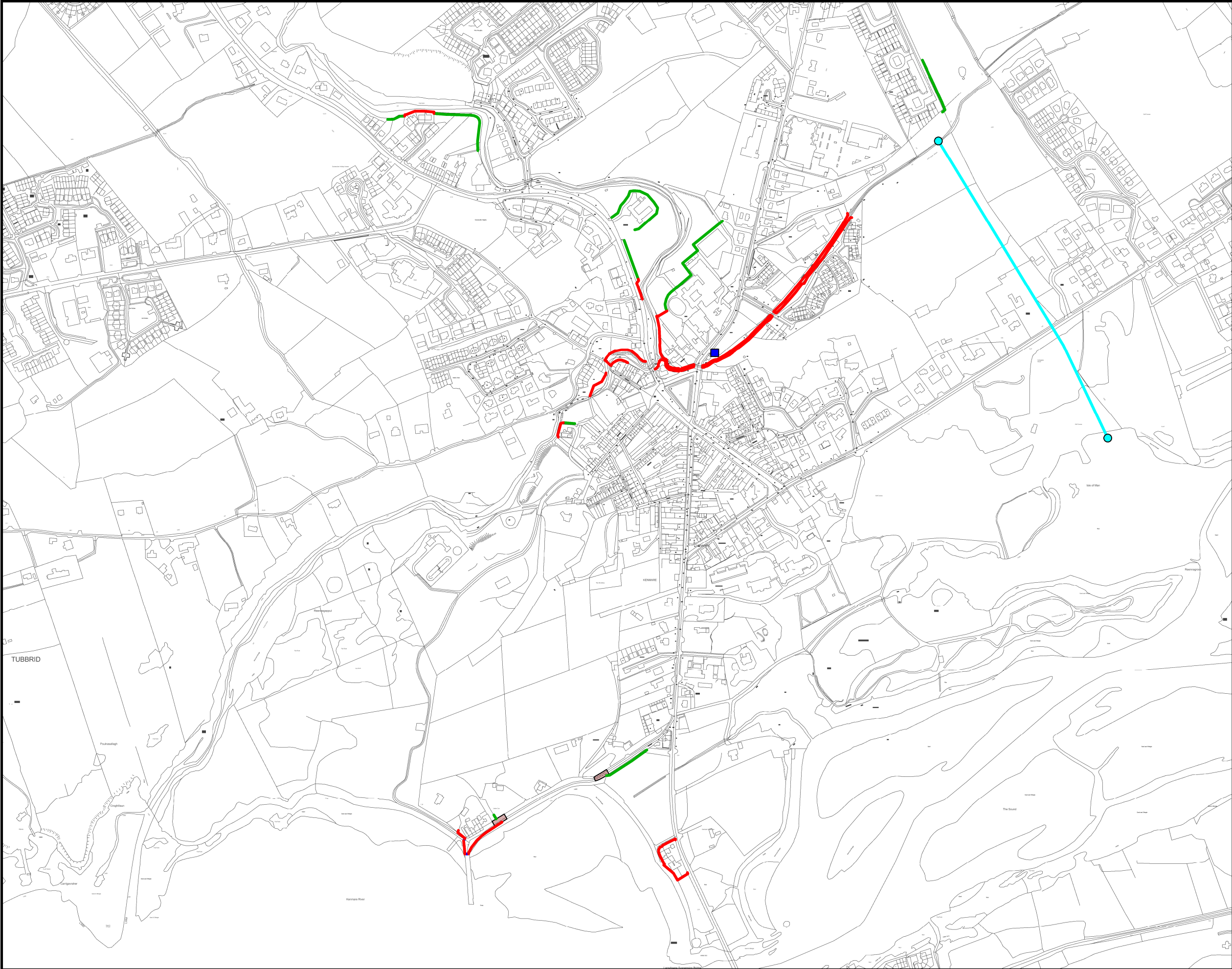
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Flow Diversion & Flood Defences

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Source: Fluvial and Tidal Flooding

Map Area: Urban Area

Scenario: Current

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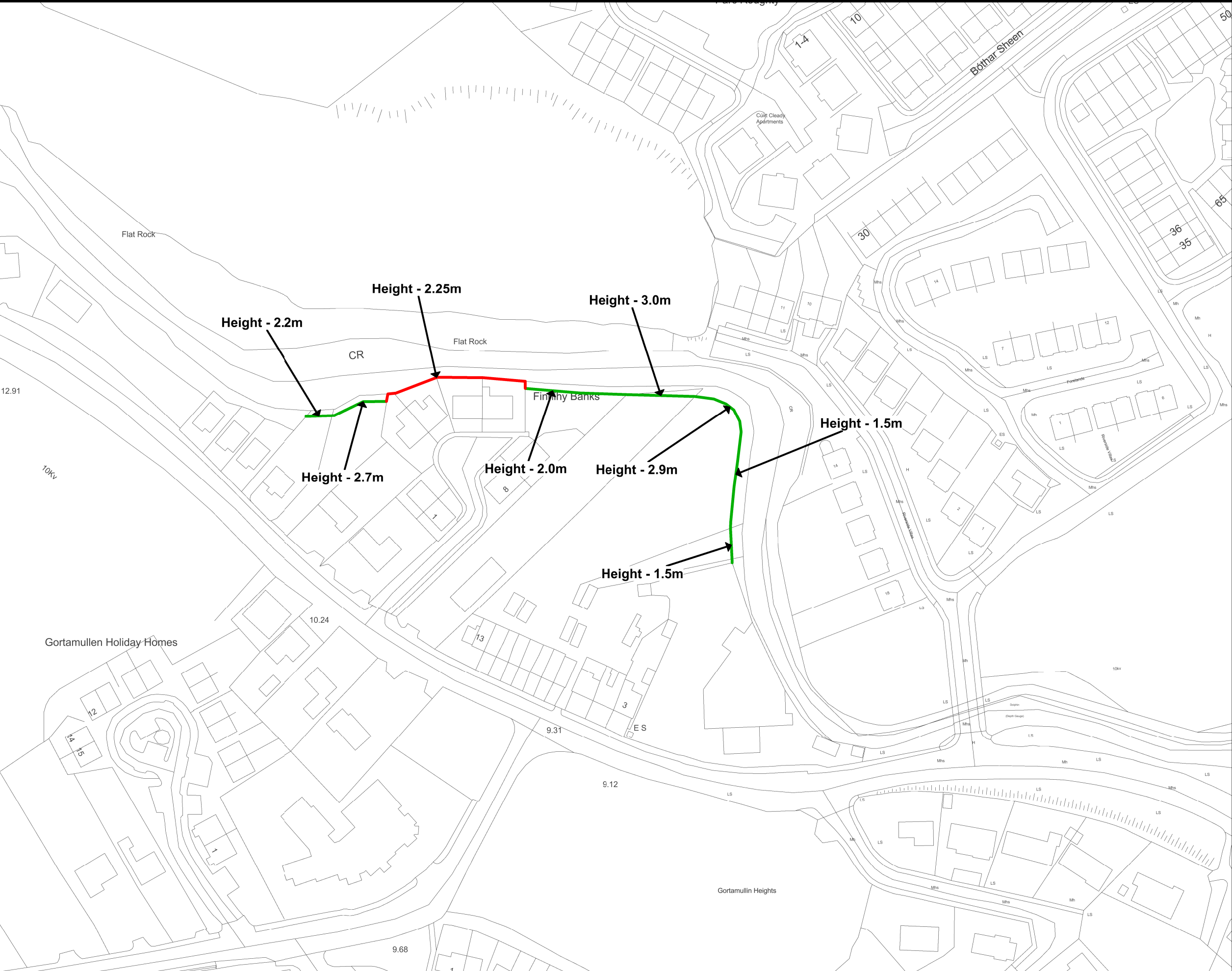
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- Flow Diversion



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Jonathan Swift Street,  
Trim, Co. Meath



Mott MacDonald Ireland  
5 Eastgate Avenue  
Little Island, Cork

Project :  
South Western CFRAM Study

Map : Kenmare  
Flow Diversion & Flood Defences

Map Type: Preliminary Options

Source: Fluvial and 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-21-KE-219-P1

Sheet: 2 of 6

Revision: P1

Drawing Scale: NTS

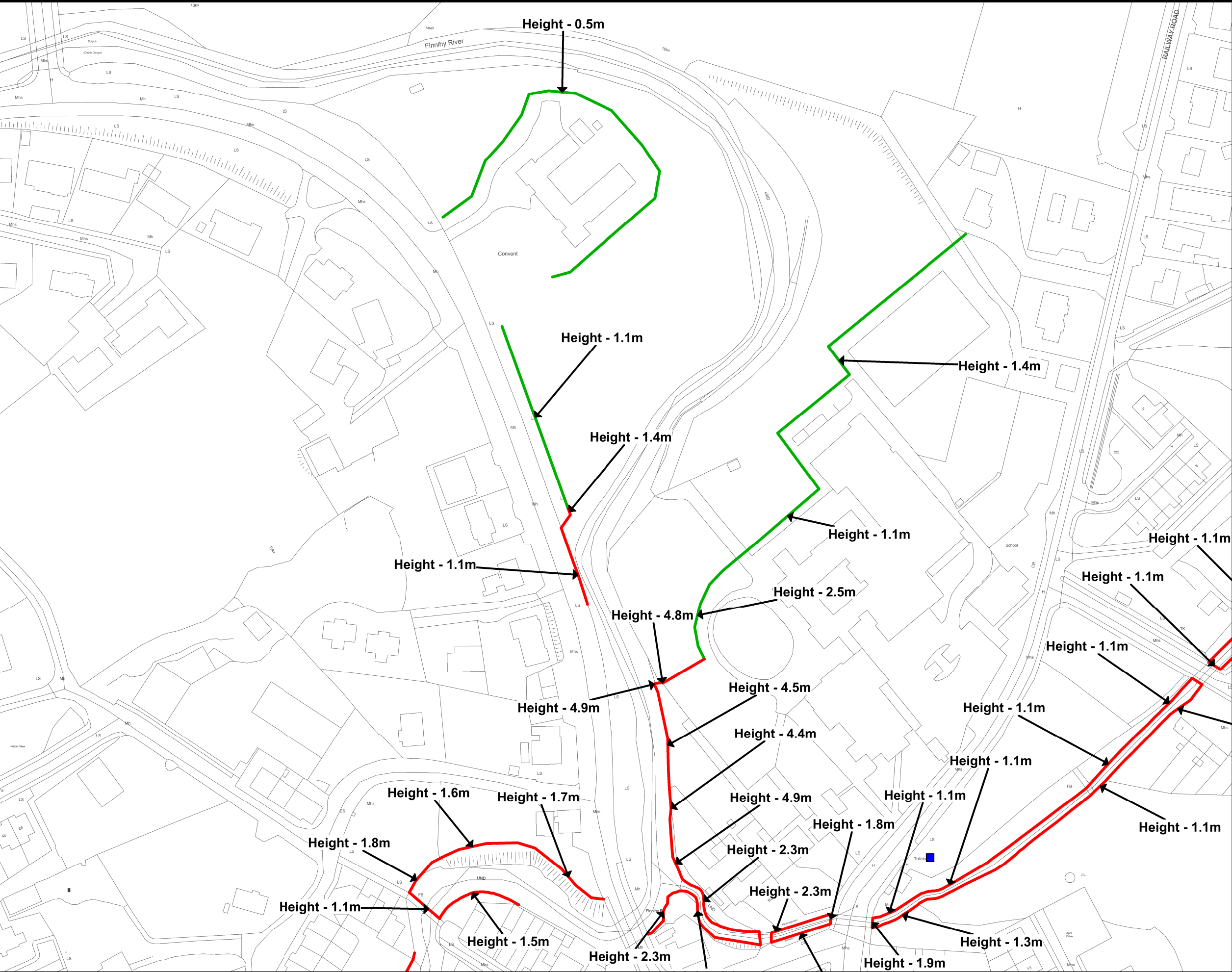
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- Flood Defence Walls
- Flood Defence Embankments
- Flood Barriers / Gates
- Road Raising
- Pump Station
- Flow Diversion



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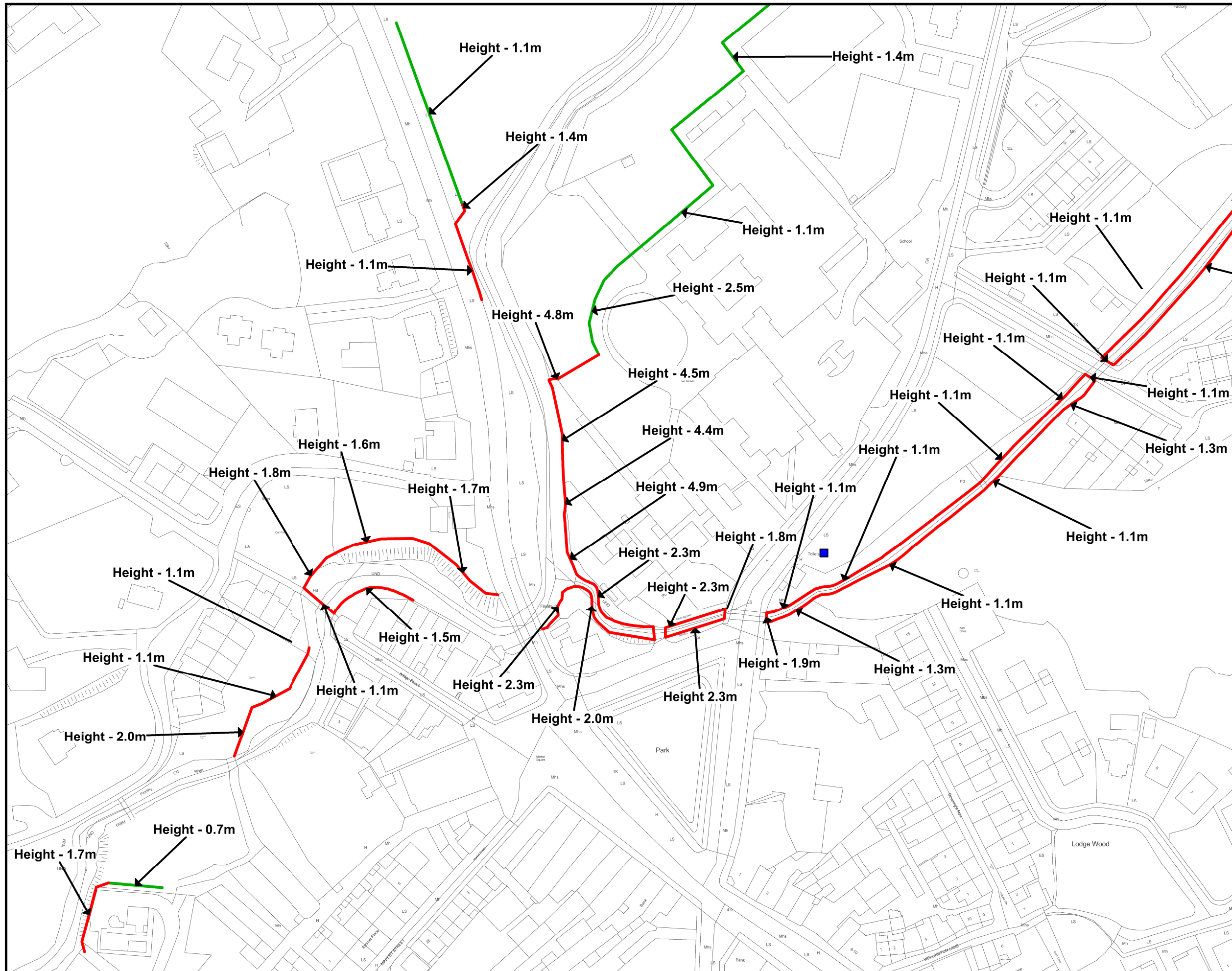
Mott MacDonald Ireland  
5 Eastgate Avenue  
Little Island, Cork

Project : South Western CFRAM Study	
Map : Kenmare Flow Diversion & Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial and 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-21-KE-220-P1
Sheet:	3 of 6
Drawing Scale:	NTS
Revision:	P1
Plot Scale:	1:1 @ A3



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**Flood Defence Walls**  
—

**Flood Defence Embankments**  
—

**Flood Barriers / Gates**  
—

**Road Raising**  
▨

**Pump Station**  
■

**Flow Diversion**  
—

**SOUTH WESTERN**  
**CFRAM**  
**STUDY**  
CATCHMENT FLOOD RISK  
ASSESSMENT AND MANAGEMENT

**OPW**  
The Office of Public Works  
Offic na n-athbhorascha Poblait  
Office of Public Works  
Jonathan Swift Street,  
Trim, Co. Meath

**Mott MacDonald**  
Mott MacDonald Ireland  
5 Eastgate Avenue  
Little Island, Cork

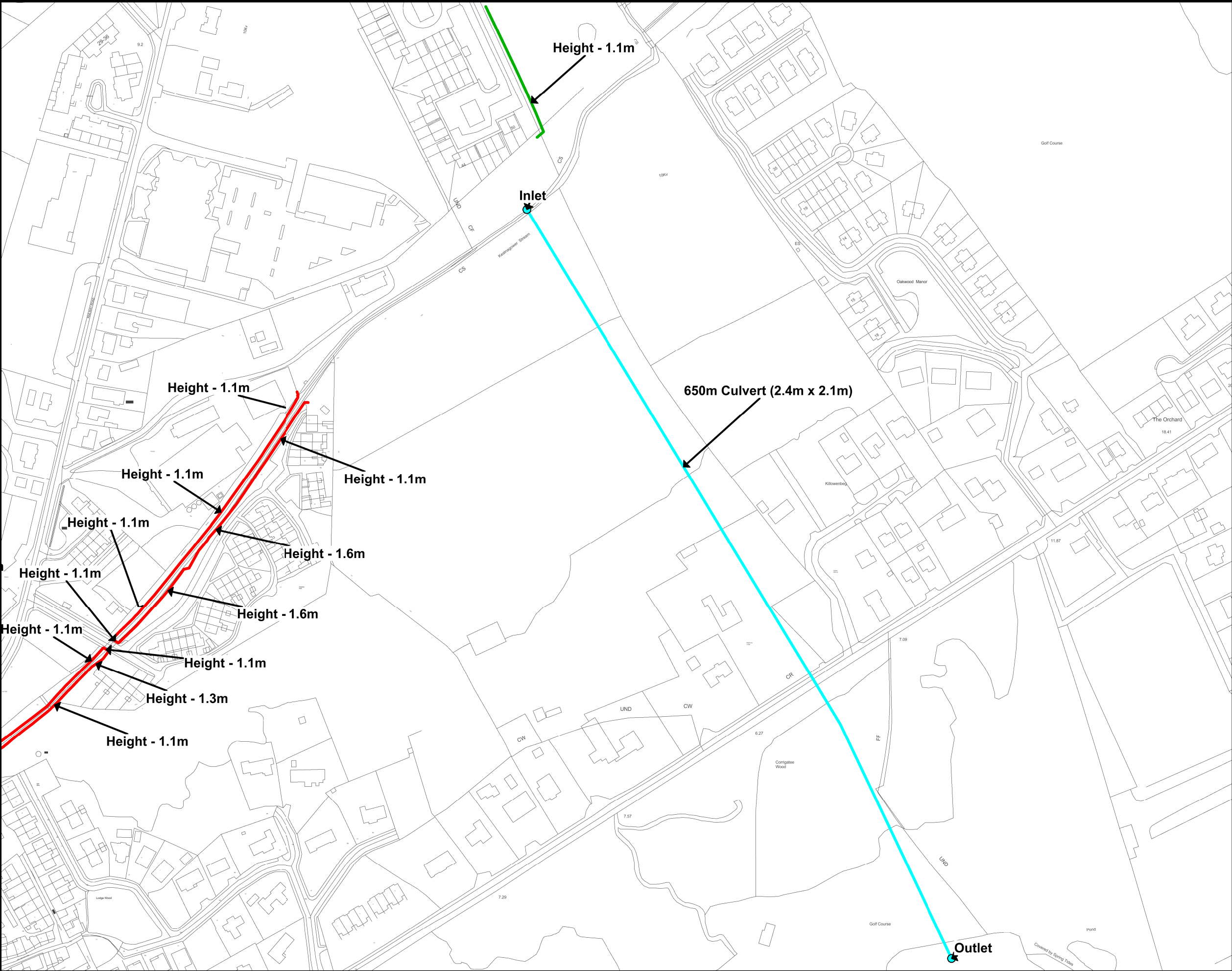
Project : <b>South Western CFRAM Study</b>	
Map : <b>Kenmare</b> <b>Flow Diversion &amp; Flood Defences</b>	
Map Type:	Preliminary Options
Source:	Fluvial and Tidal Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-21-KE-221-P1
Sheet:	4 of 6
Drawing Scale:	NTS
Revision:	P1
Plot Scale:	1:1 @ A3



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Flood Defence Walls



Flood Defence Embankments



Flood Barriers / Gates



Road Raising



Pump Station



Flow Diversion



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Little Island, Cork

Project :

South Western CFRAM Study

Map : Kenmare

Flow Diversion & Flood Defences

Map Type: Preliminary Options

Source: Fluvial and 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-21-KE-222-P1

Sheet: 5 of 6

Revision: P1

Drawing Scale: NTS

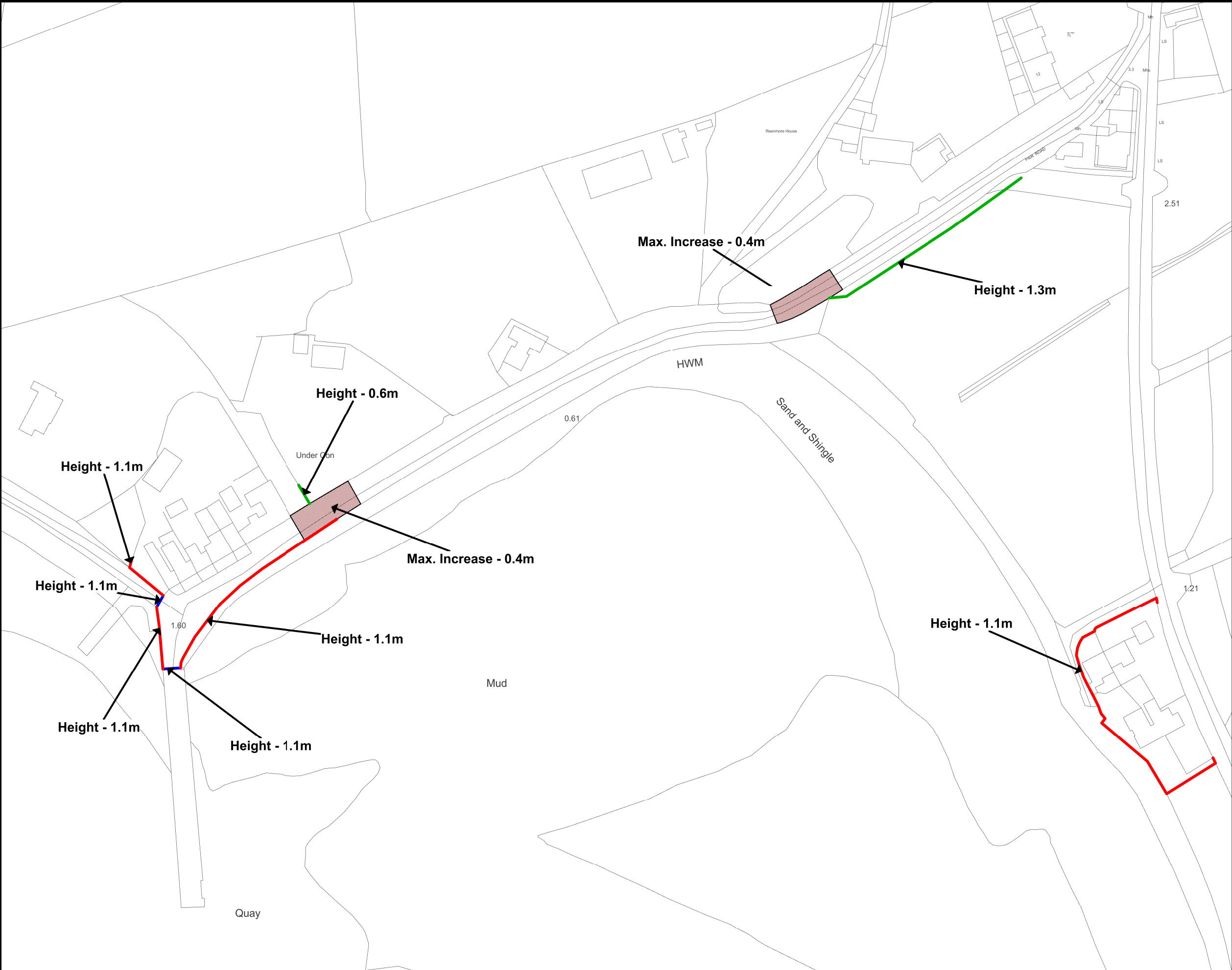
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Flood Defence Walls

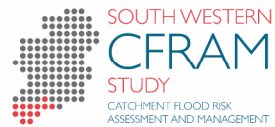
Flood Defence Embankments

Flood Barriers / Gates

Road Raising

Pump Station

Flow Diversion



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5 Eastgate Avenue  
Little Island, Cork

Project :

**South Western CFRAM Study**

Map : **Kenmare**

**Flow Diversion & Flood Defences**

Map Type: Preliminary Options

Source: Fluvial and 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-21-KE-223-P1

Sheet:

6 of 6

Revision:

P1

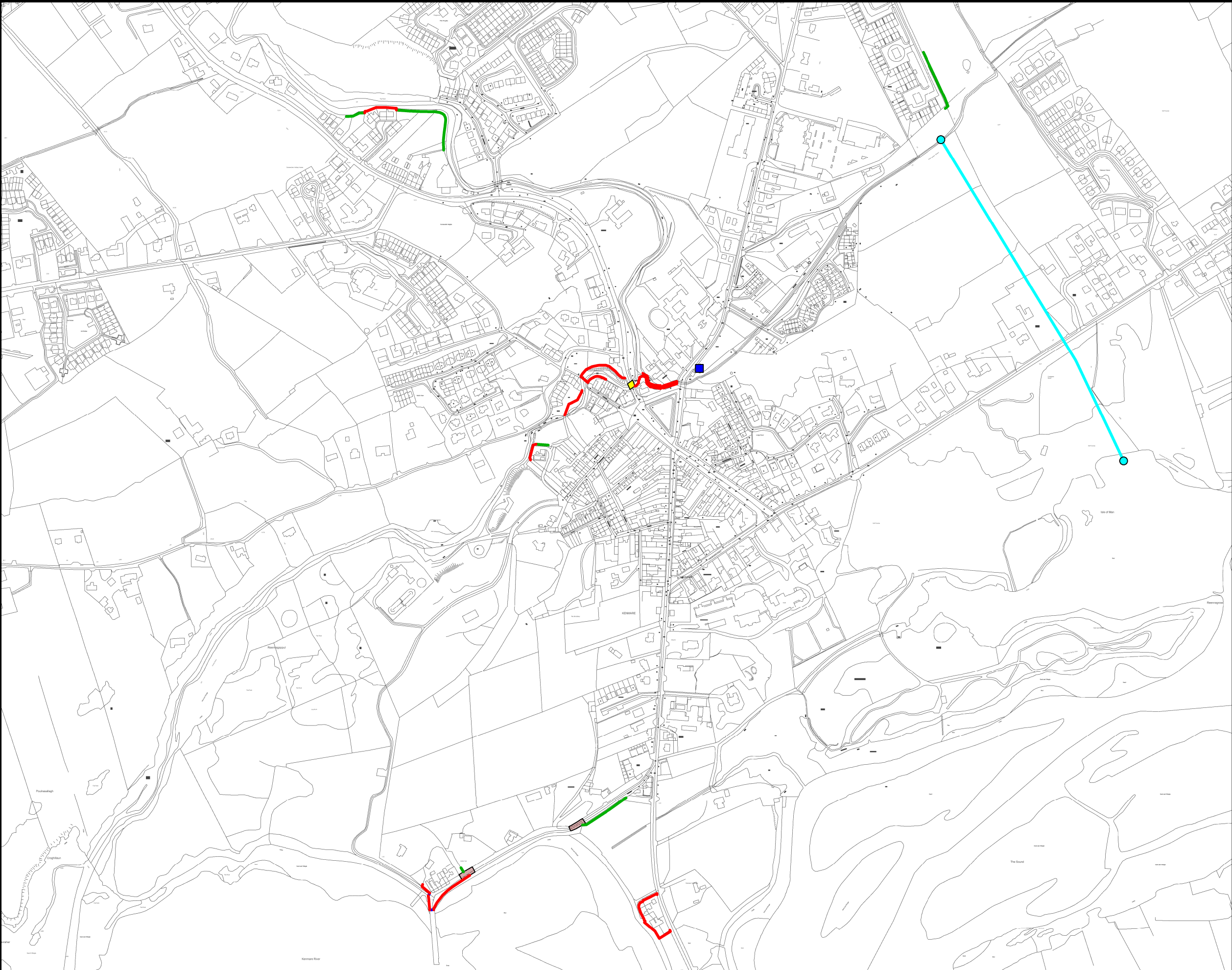
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Flood Defence Walls



Flood Defence Embankments



Flood Barriers / Gates



Road Raising



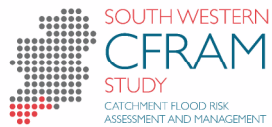
Remove Pipe Under Bridge



Pump Station



Flow Diversion



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Mott MacDonald Ireland  
5 Eastgate Avenue  
Little Island, Cork

Project :

South Western CFRAM Study

Map : Kenmare - Overview  
Conveyance, Flow Diversion & Flood Defences

Map Type: Preliminary Options

Source: Fluvial and 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-21-KE-224-P1

Sheet: 1 of 5

Revision: P1

Drawing Scale: NTS

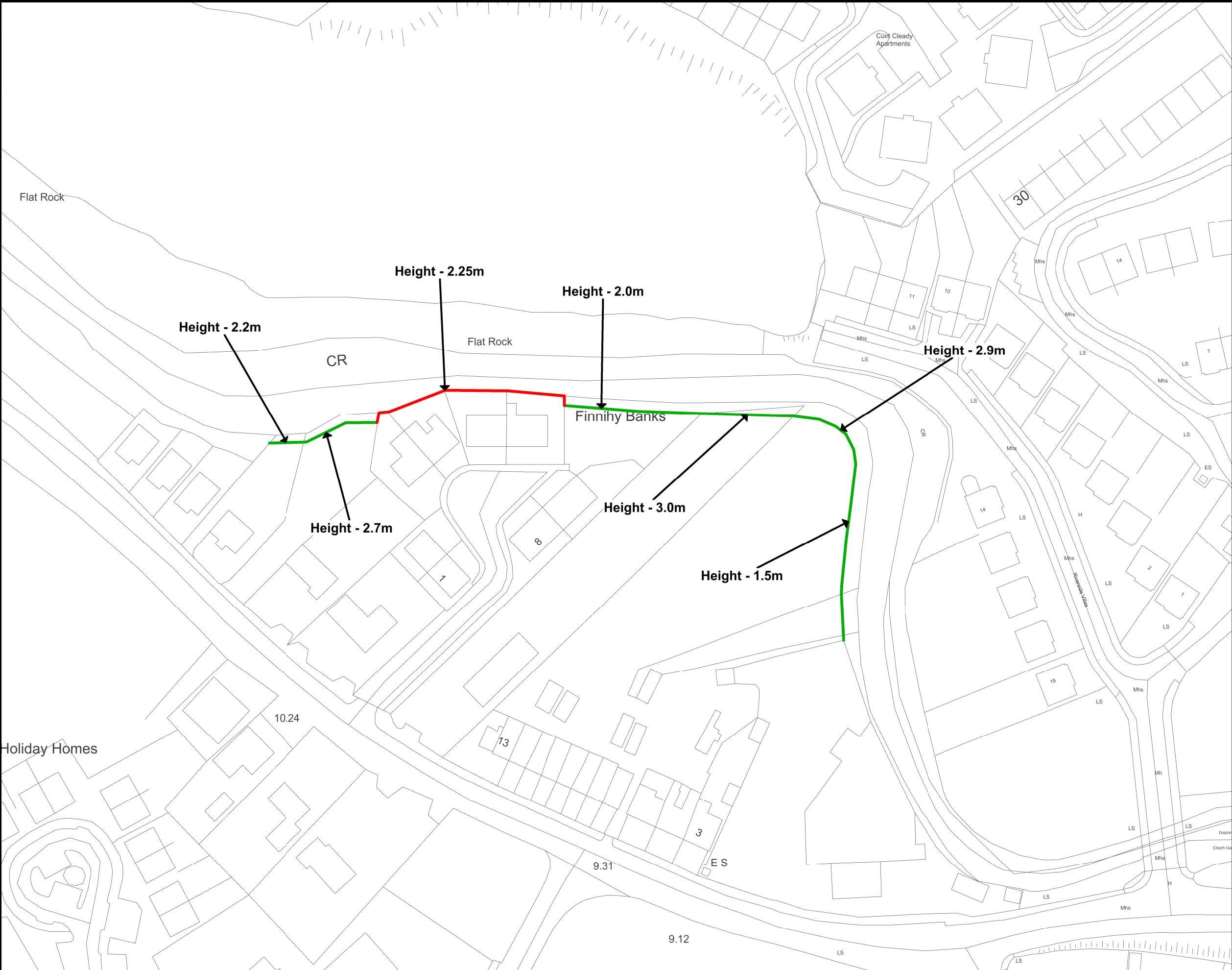
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- Flood Defence Walls
- Flood Defence Embankments
- Flood Barriers / Gates
- Road Raising
- Remove Pipe Under Bridge
- Pump Station
- Flow Diversion



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Jonathan Swift Street,  
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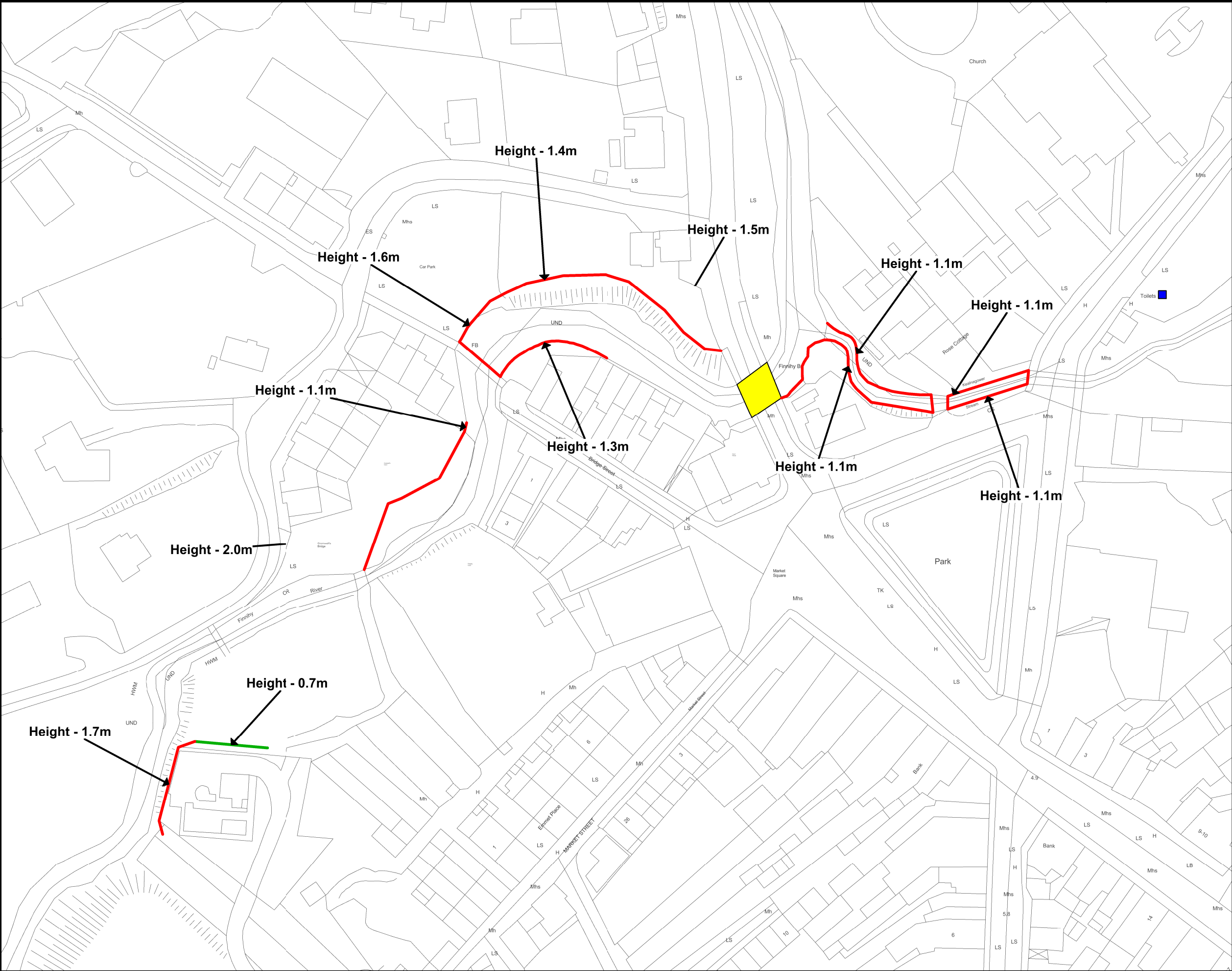
Mott MacDonald Ireland  
5 Eastgate Avenue  
Little Island, Cork

Project : South Western CFRAM Study	
Map : Kenmare Conveyance, Flow Diversion & Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial and 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-21-KE-225-P1
Sheet:	2 of 5
Drawing Scale:	NTS
Revision:	P1
Plot Scale:	1:1 @ A3



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- Flood Defence Walls
- Flood Defence Embankments
- Flood Barriers / Gates
- Road Raising
- Remove Pipe Under Bridge
- Pump Station
- Flow Diversion



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Little Island, Cork

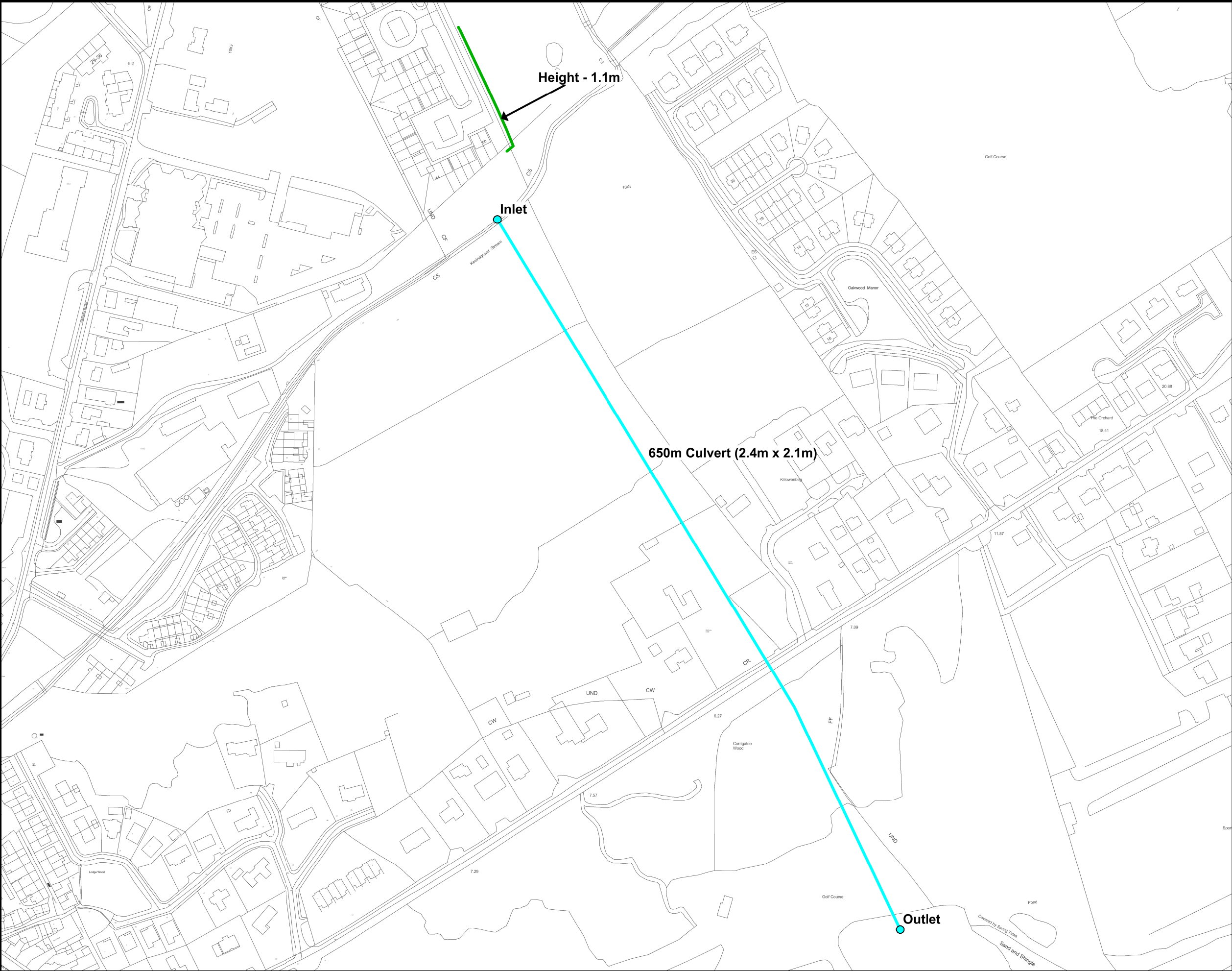
Project : South Western CFRAM Study	
Map : Kenmare Conveyance, Flow Diversion & Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial and Tidal Flooding
Map Area:	Urban Area
Scenario:	Current
Drawn by:	Tony Donovan
Checked by:	Barry O'Connor
Approved by:	Fintan McGivern
Map No.:	MMD-296235-E-DR-21-KE-226-P1
Sheet:	3 of 5
Drawing Scale:	NTS
Revision:	P1
Plot Scale:	1:1 @ A3



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Flood Defence Walls

Flood Defence Embankments

Flood Barriers / Gates

Road Raising

Remove Pipe Under Bridge

Pump Station

Flow Diversion



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Mott MacDonald Ireland  
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Little Island, Cork

Project :  
South Western CFRAM Study

Map : Kenmare  
Conveyance, Flow Diversion & Flood Defences

Map Type: Preliminary Options

Source: Fluvial and 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-21-KE-227-P1

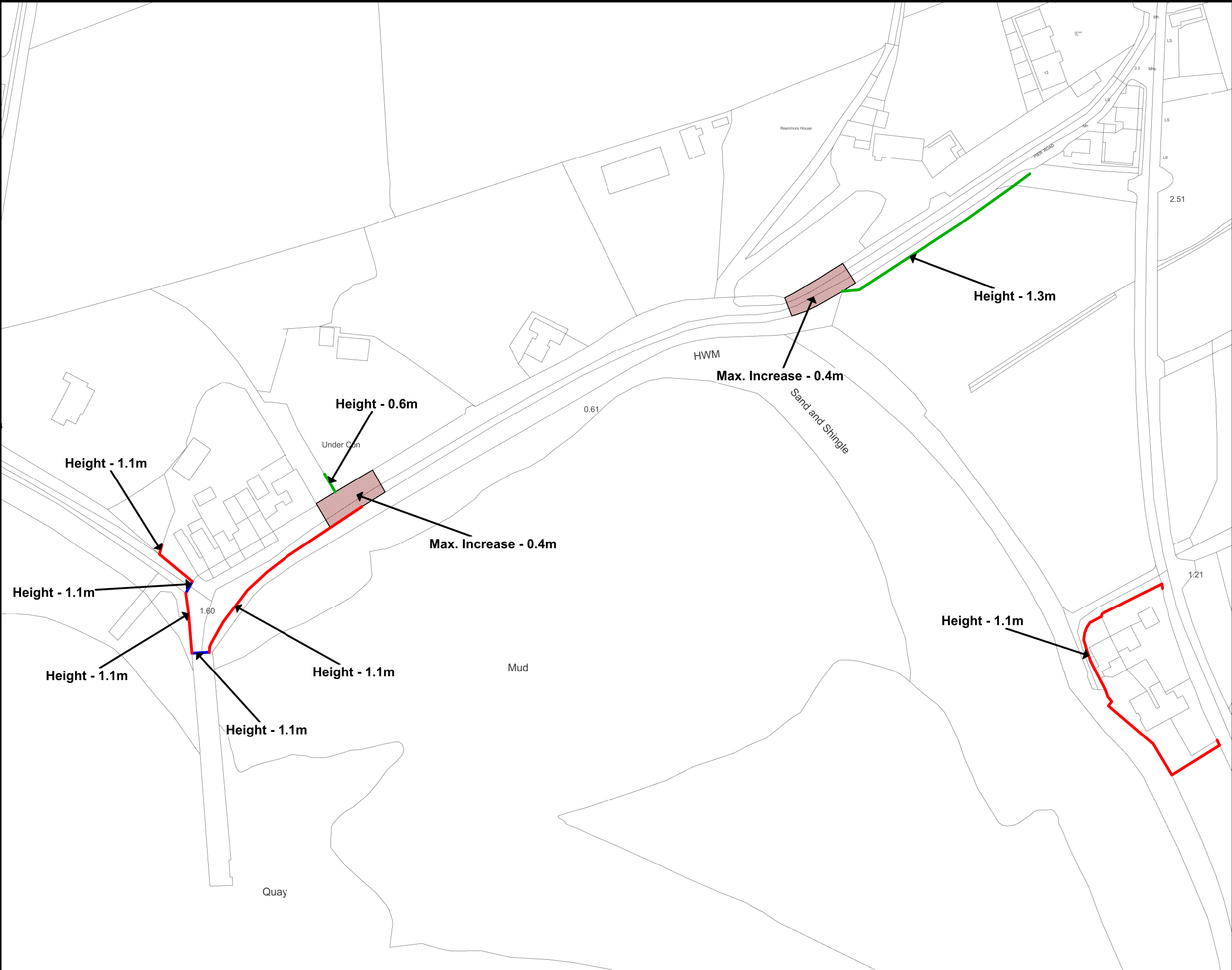
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Flood Defence Walls

Flood Defence Embankments

Flood Barriers / Gates

Road Raising

Remove Pipe Under Bridge

Pump Station

Flow Diversion



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Jonathan Swift Street,  
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Mott MacDonald Ireland  
5 Eastgate Avenue  
Little Island, Cork

Project : South Western CFRAM Study	
Map : Kenmare Conveyance, Flow Diversion & Flood Defences	
Map Type:	Preliminary Options
Source:	Fluvial and 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-21-KE-228-P1
Sheet:	5 of 5
Drawing Scale:	NTS
Revision:	P1
Plot Scale:	1:1 @ A3



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