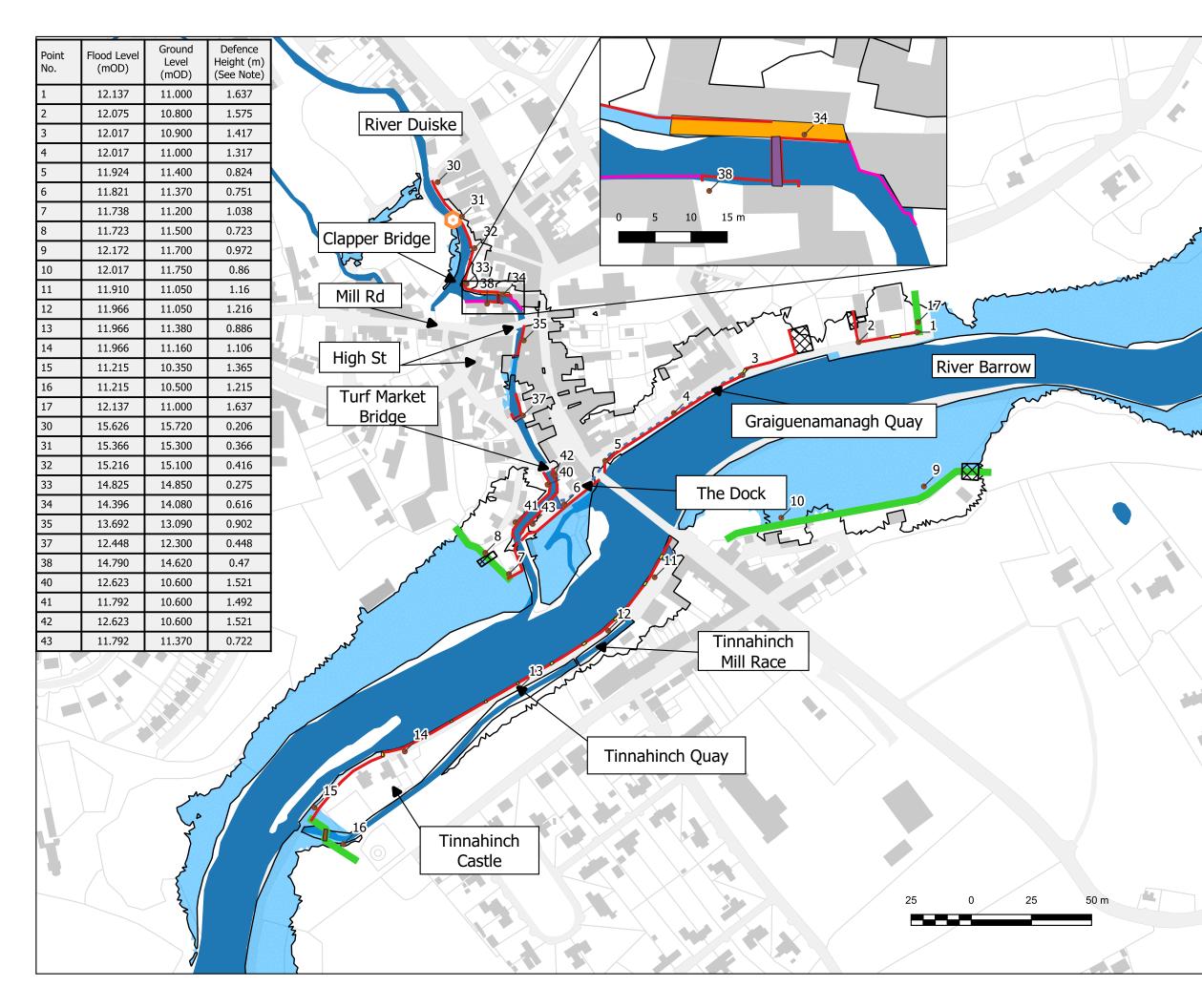


### Appendix A – Options Figures



NOTES 1. Do not scale from drawing 2. Layout of defence measures are indicative only. 3. Where Defence Height is zero, this indicates either a) ground level is greater than required defence level, or b) No defence at this location for given Option. 4. Defence Height = Flood Level + Freeboard (300mm for Hard Defences, 500mm for Soft Defences). Further refinement of freeboard will be undertaken once preferred option is identified. LEGEND Soft Defences
Hard Defences
Wall Improvements
Tinnahinch Mill Sluice Gates
Flood Gates
Storm Drain
Pump Station
🔀 Barrow - Raised Ground
Duiske Raised Ground
Replace Bridge
1% AEP Flood Extent - Defended
1% AEP Flood Extent - Undefended
0 Debris Trap

## BYRNELOOBY

Client:

### Kilkenny County Council

Project:

#### GRAIGUENAMANAGH - TINNAHINCH FLOOD RELIEF SCHEME

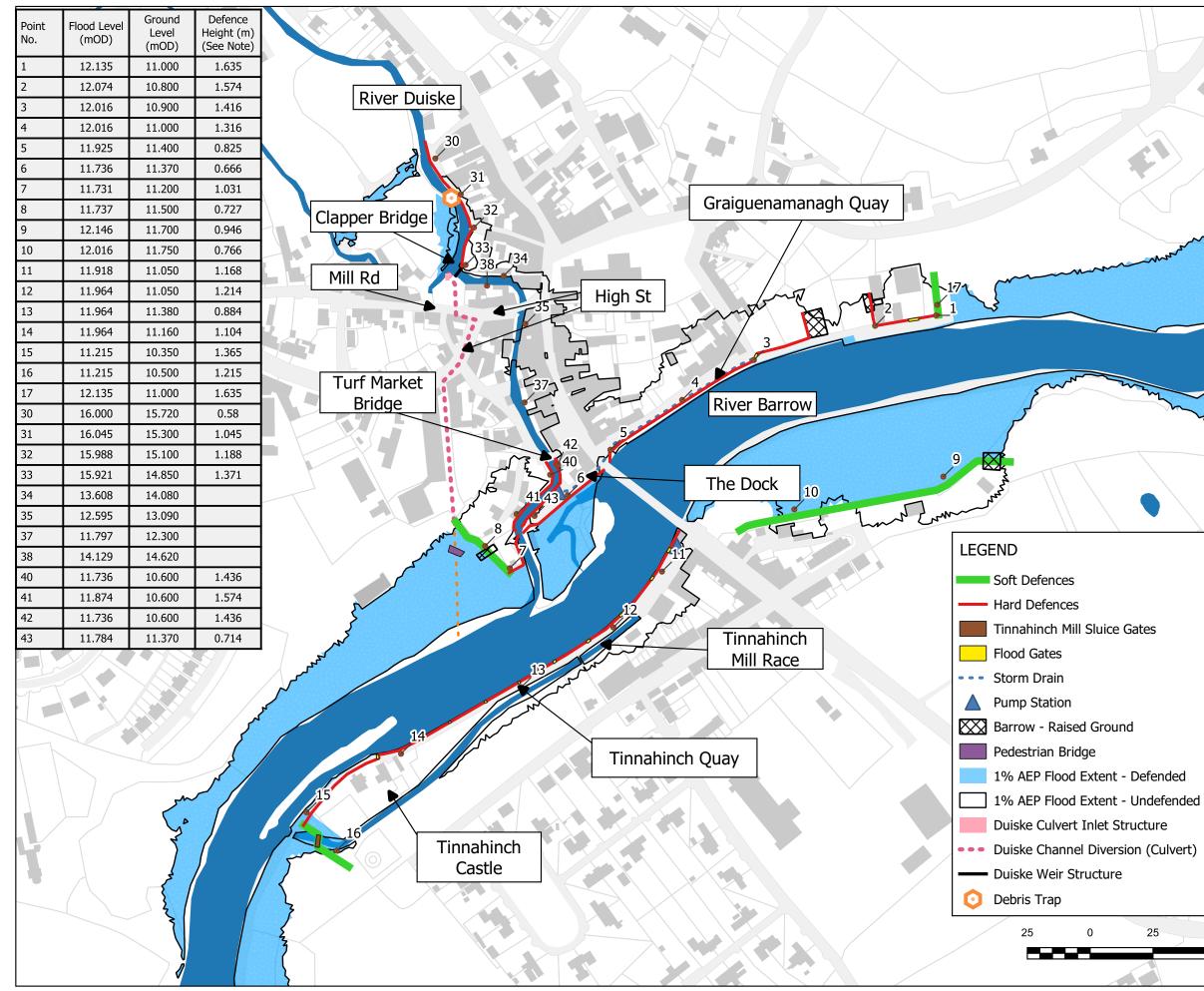
Title:

### Option 1 - Raised Defences

Status: For Information

Map Area: Graiguenamanagh

Drawn by: RP	Oct 2022	Scale:	
Checked by: SH	Oct 2022	1:3,000	
Approved by: SH	Oct 2022		Original @ A3
Map No.: R009-01		Sheet: 1 of 1	



#### NOTES

1. Do not scale from drawing

2. Layout of defence measures are indicative only.

3. Where Defence Height is zero, this indicates either a) ground level is greater than required defence level, or b) No defence at this location for given Option.

4. Defence Height = Flood Level + Freeboard (300mm for Hard Defences, 500mm for Soft Defences). Further refinement of freeboard will be undertaken once preferred option is identified.

### **BYRNELOOBY**

Client:

#### **Kilkenny County Council**

Project:

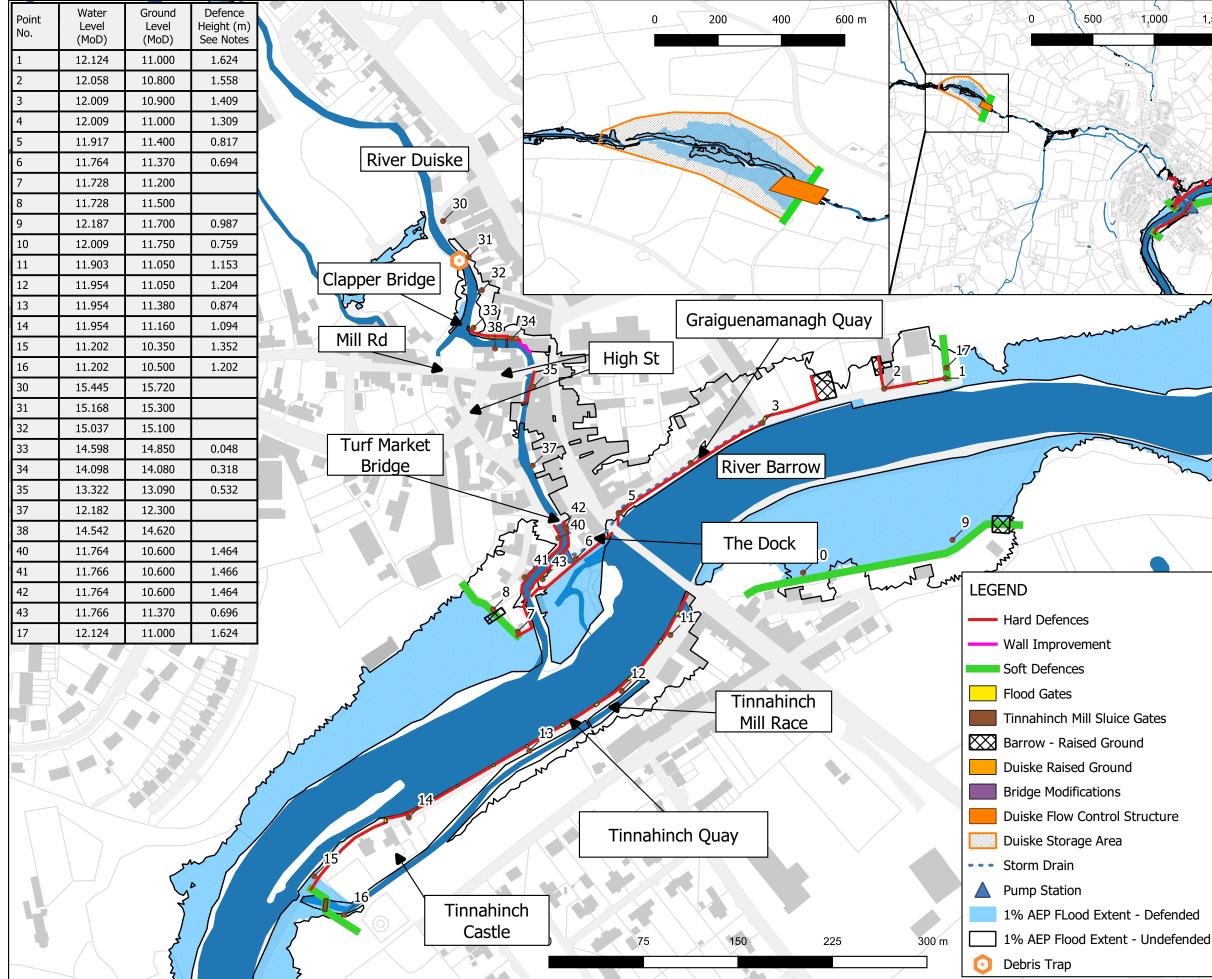
#### **GRAIGUENAMANAGH - TINNAHINCH** FLOOD RELIEF SCHEME

#### Title:

#### Option 2 - Raised Defences & **River Duiske Diversion**

Statuce For Information

Status: For Informa	ation		
Map Area: Graigue	namanagh		
Drawn by: RP	Oct 2022	Scale:	
Checked by: SH	Oct 2022	1:3,000	
Approved by: SH	Oct 2022		Original
Map No.: R009-02		Sheet: 1 of 1	



1,500 m NOTES

1. Do not scale from drawing

2. Layout of defence measures are indicative only.

3. Where Defence Height is zero, this indicates either a) ground level is greater than required defence level, or b) No defence at this location for given Option.

4. Defence Height = Flood Level + Freeboard (300mm for Hard Defences, 500mm for Soft Defences). Further refinement of freeboard will be undertaken once preferred option is identified.

# BYRNELOOBY

Client:

#### **Kilkenny County Council**

Project:

#### GRAIGUENAMANAGH - TINNAHINCH FLOOD RELIEF SCHEME

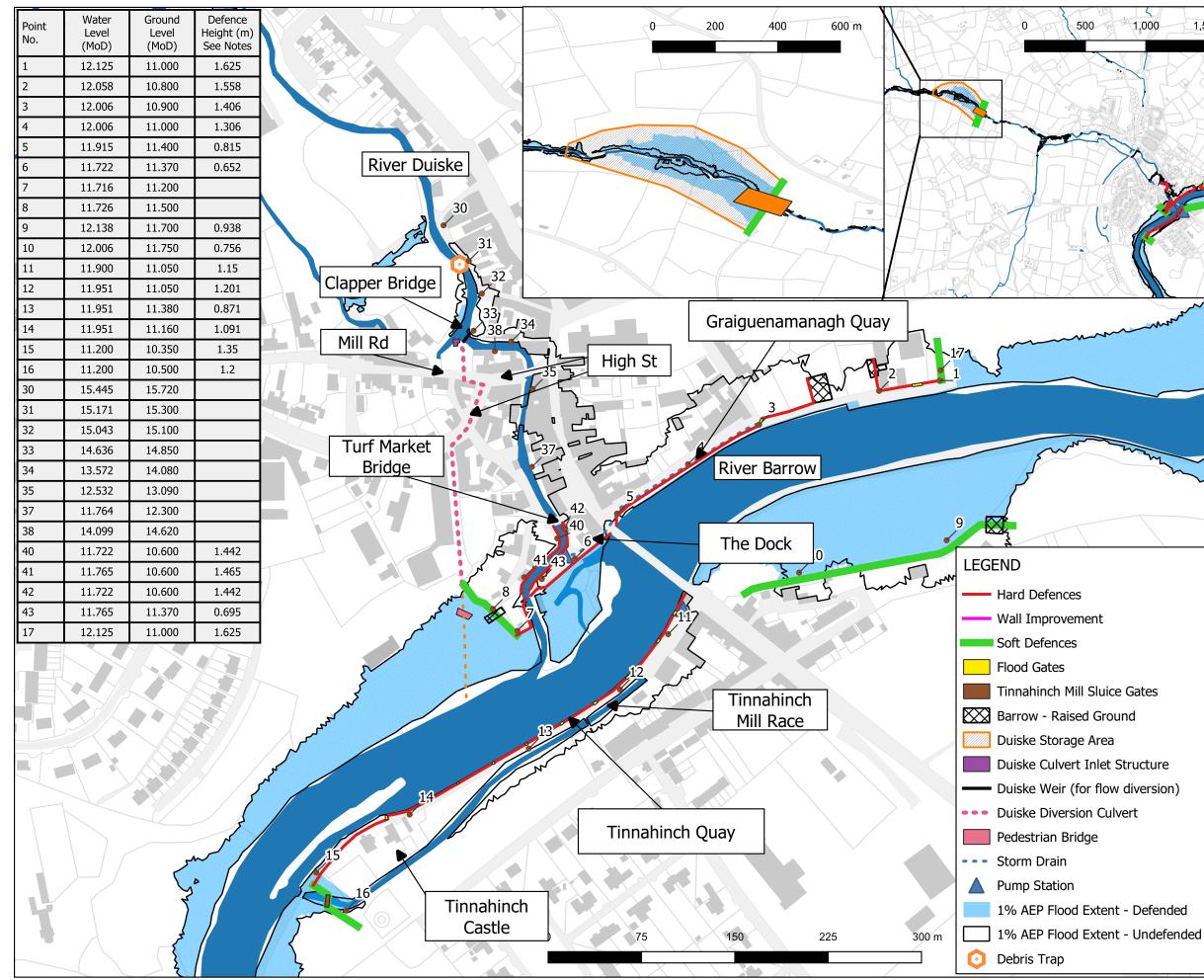
Title:

re			
eno	de	e	d

### Option 3 - Raised Defences and River Duiske Storage

Status: For Information

Map Area: Graiguenamanagh			
Drawn by: RP	Oct 2022	Scale:	
Checked by: SH	Oct 2022	1:3,000	
Approved by: SH	Oct 2022		Original @ A3
Map No.: R009-03		Sheet: 1 of 1	



NOTES

1,500 m

1. Do not scale from drawing

2. Layout of defence measures are indicative only.

3. Where Defence Height is zero, this indicates either a) ground level is greater than required defence level, or b) No defence at this location for given Option.

4. Defence Height = Flood Level + Freeboard (300mm for Hard Defences, 500mm for Soft Defences). Further refinement of freeboard will be undertaken once preferred option is identified.

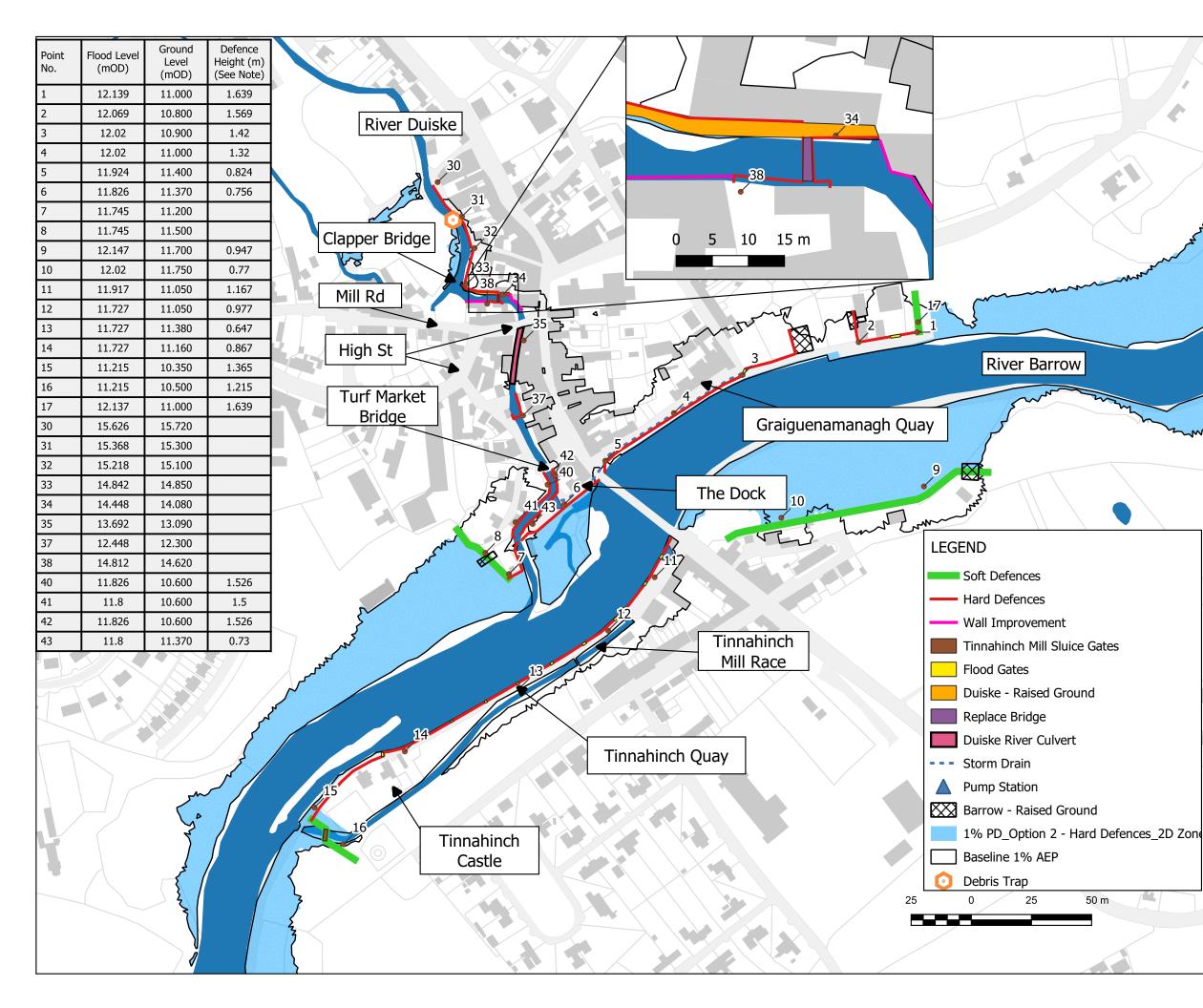
## BYRNELOOBY

Client:

#### **Kilkenny County Council**

Project:

#### **GRAIGUENAMANAGH - TINNAHINCH** FLOOD RELIEF SCHEME Title: Option 4 - Raised Defences and River Duiske Storage and Diversion Status: For Information Map Area: Graiguenamanagh Oct 2022 Scale: Drawn by: RP 1:3,000 Oct 2022 Checked by: SH Oct 2022 Approved by: SH Original @ A3 Map No.: R009-04 Sheet: 1 of 1



NOTES

1. Do not scale from drawing

2. Layout of defence measures are indicative only.

3. Where Defence Height is zero, this indicates either a) ground level is greater than required defence level, or b) No defence at this location for given Option.

4. Defence Height = Flood Level + Freeboard (300mm for Hard Defences, 500mm for Soft Defences). Further refinement of freeboard will be undertaken once preferred option is identified.

## BYRNELOOBY

Client:

#### Kilkenny County Council

Project:

#### GRAIGUENAMANAGH - TINNAHINCH FLOOD RELIEF SCHEME

Title:

#### Option 5 - Raised Defences and Duiske River Culvert

	Status: For Information			
	Map Area: Graiguenamanagh			
	Drawn by: RP	Oct 2022	Scale:	
	Checked by: SH	Oct 2022	1:3,000	
	Approved by: SH	Oct 2022		Original @ A3
	Map No.: R009-05		Sheet: 1 of 1	
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