



# The Sizewell C Project

## 5.2 Main Development Site Flood Risk Assessment

### Appendices 1-7 Part 12 of 14

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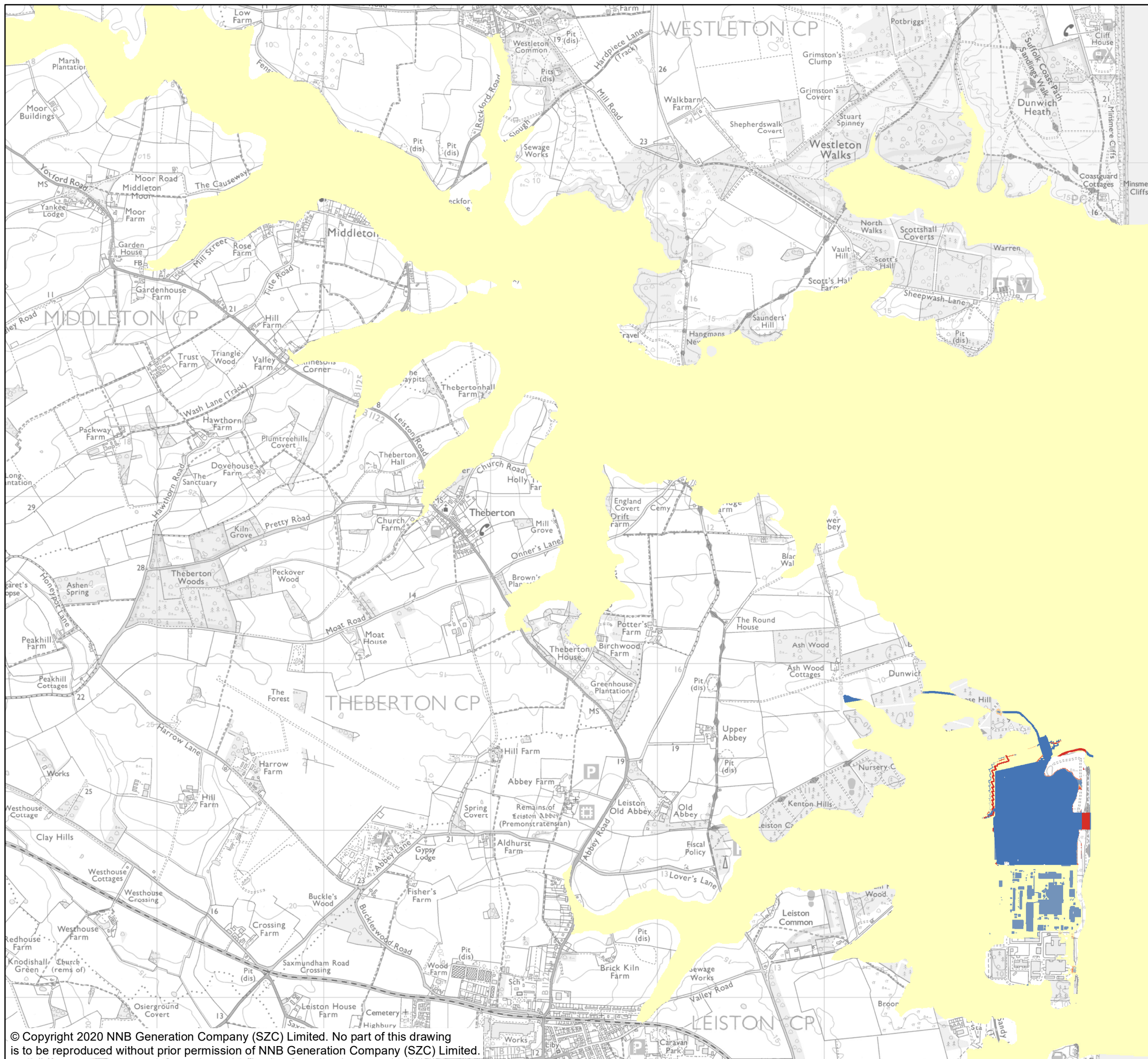
Revision: 1.0  
Applicable Regulation: Regulation 5(2)(e)  
PINS Reference Number: EN010012

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May 2020

Planning Act 2008  
Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009



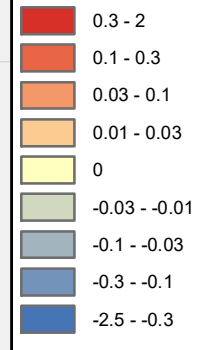


**NOTES**

**KEY**

**1000 YEAR HCDF BREACH EVENT 2140**

**FLOOD DEPTH DIFFERENCE (m)**



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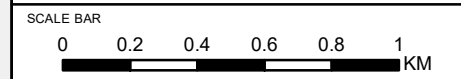


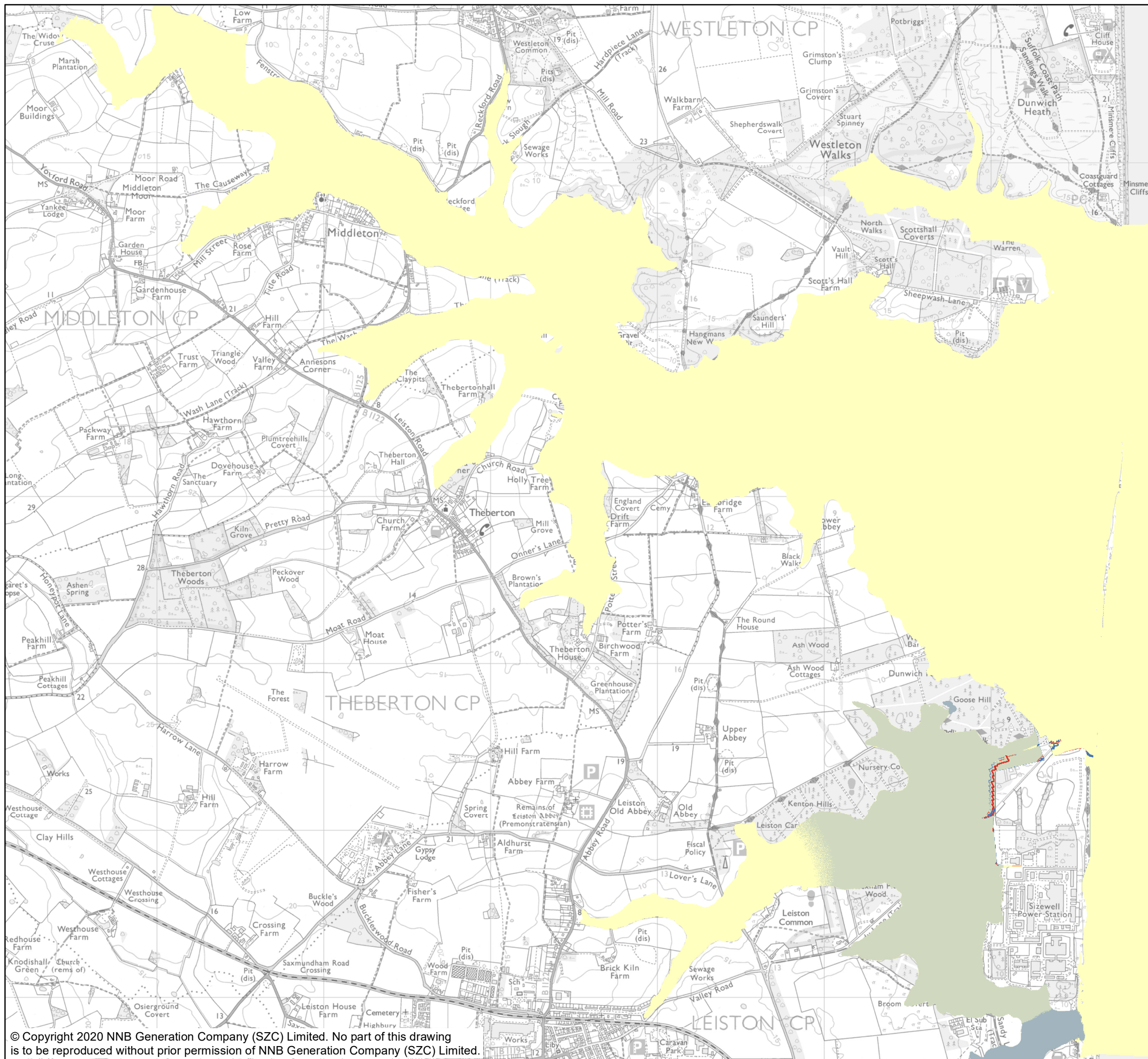
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 FLOOD RISK ASSESSMENT  
 BREACH MODEL RESULTS

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 DIFFERENCE IN FLOOD DEPTH  
 1000 YEAR HCDF BREACH EVENT 2140

**DRAWING NO:**  
 FIGURE C.14

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





**NOTES**

**KEY**

**200 YEAR SIZEWELL GAP BREACH EVENT 2190**

**FLOOD DEPTH DIFFERENCE (m)**

- 0.3 - 2
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 2.5 - -0.3

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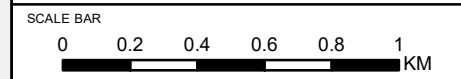


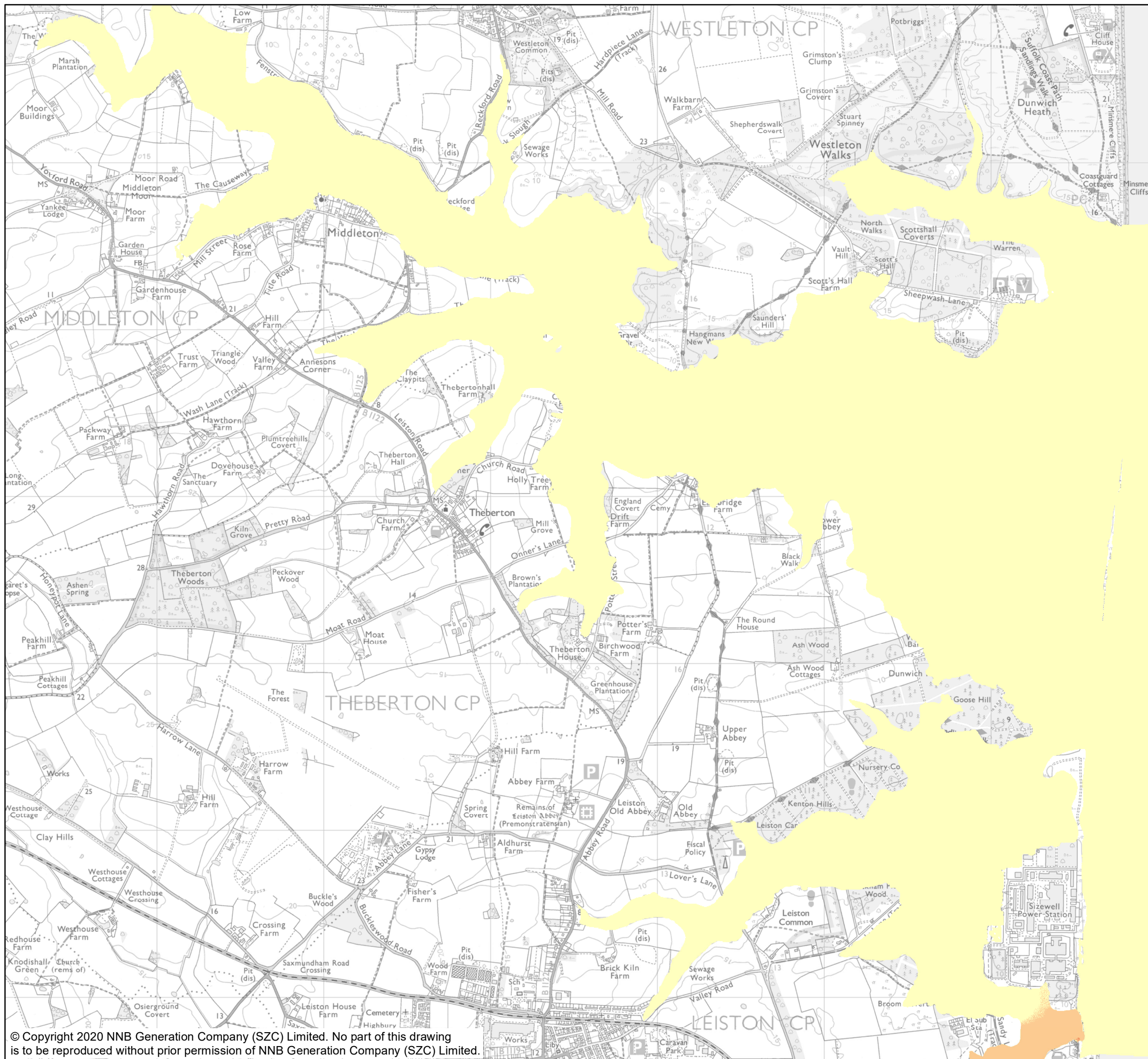
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 BREACH MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD DEPTH  
 200 YEAR SIZEWELL GAP BREACH EVENT 2190

**DRAWING NO:**  
 FIGURE C.15

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





**NOTES**

**KEY**

**1000 YEAR BREACH EVENT 2190**

**FLOOD DEPTH DIFFERENCE (m)**

- 0.3 - 2
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 2.5 - -0.3

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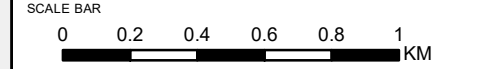


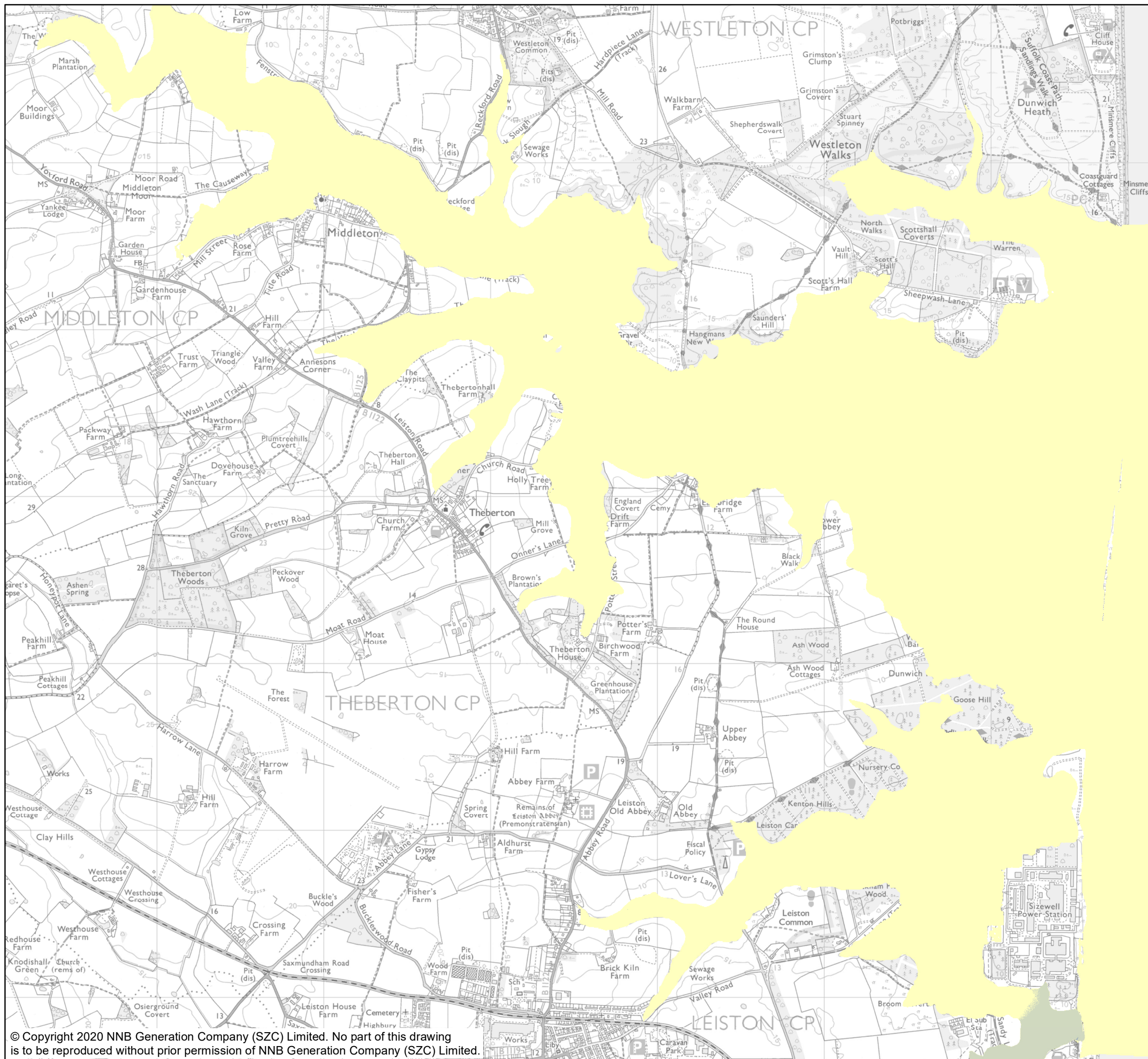
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 BREACH MODEL RESULTS

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 DIFFERENCE IN FLOOD DEPTH  
 LOWER ROUGHNESS SENSITIVITY TEST  
 1000 YEAR BREACH EVENT 2190

**DRAWING NO:**  
 FIGURE C.16

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





**NOTES**

**KEY**

**1000 YEAR BREACH EVENT 2190**

**FLOOD DEPTH DIFFERENCE (m)**

- 0.3 - 2
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 2.5 - -0.3

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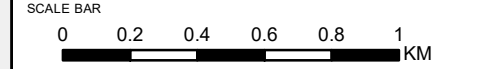


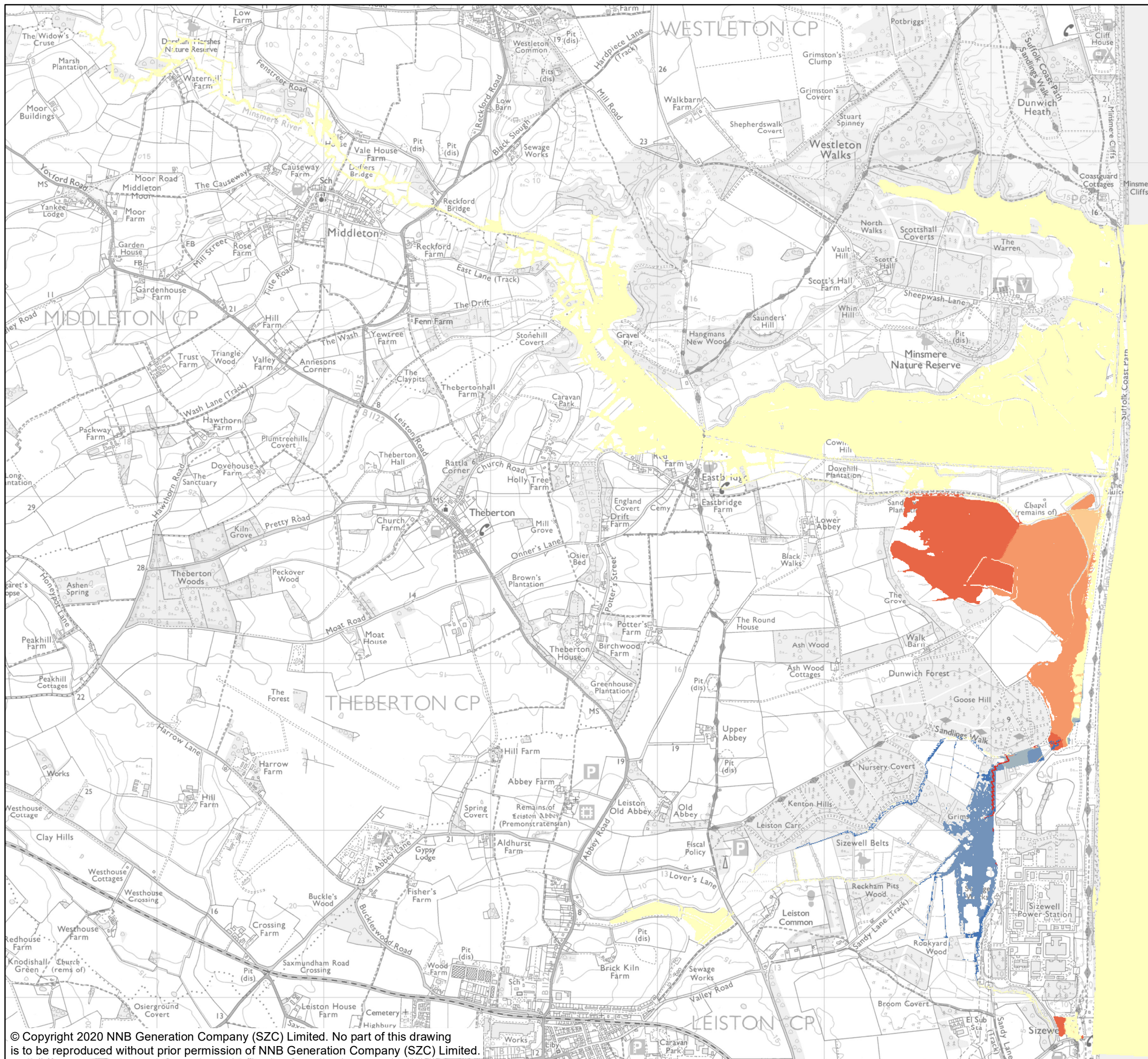
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 BREACH MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD DEPTH  
 INCREASED ROUGHNESS SENSITIVITY TEST  
 1000 YEAR BREACH EVENT 2190

**DRAWING NO:**  
 FIGURE C.17

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





**NOTES**

**KEY**

**200 YEAR COASTAL INUNDATION EVENT 2030**

**FLOOD DEPTH DIFFERENCE (m)**

- 0.3 - 2
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 2.5 - -0.3

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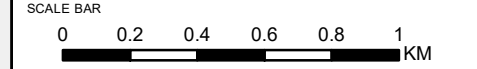


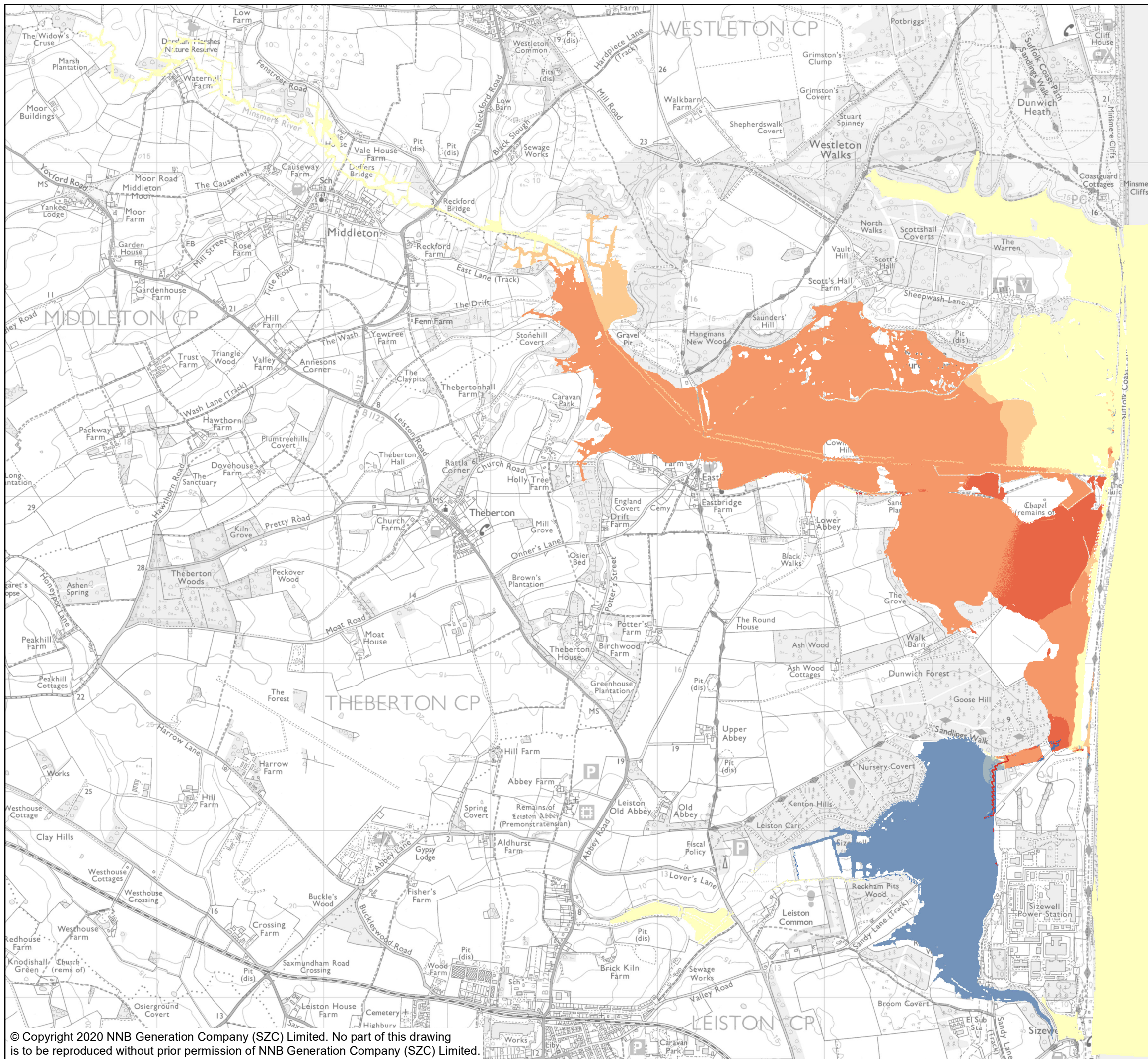
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 COASTAL INUNDATION MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD DEPTH  
 200 YEAR COASTAL INUNDATION EVENT 2030

**DRAWING NO:**  
 FIGURE C.18

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





**NOTES**

**KEY**

**1000 YEAR COASTAL INUNDATION EVENT**

**FLOOD DEPTH DIFFERENCE (m)**

- 0.3 - 2
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 2.5 - -0.3

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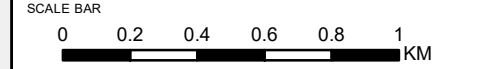


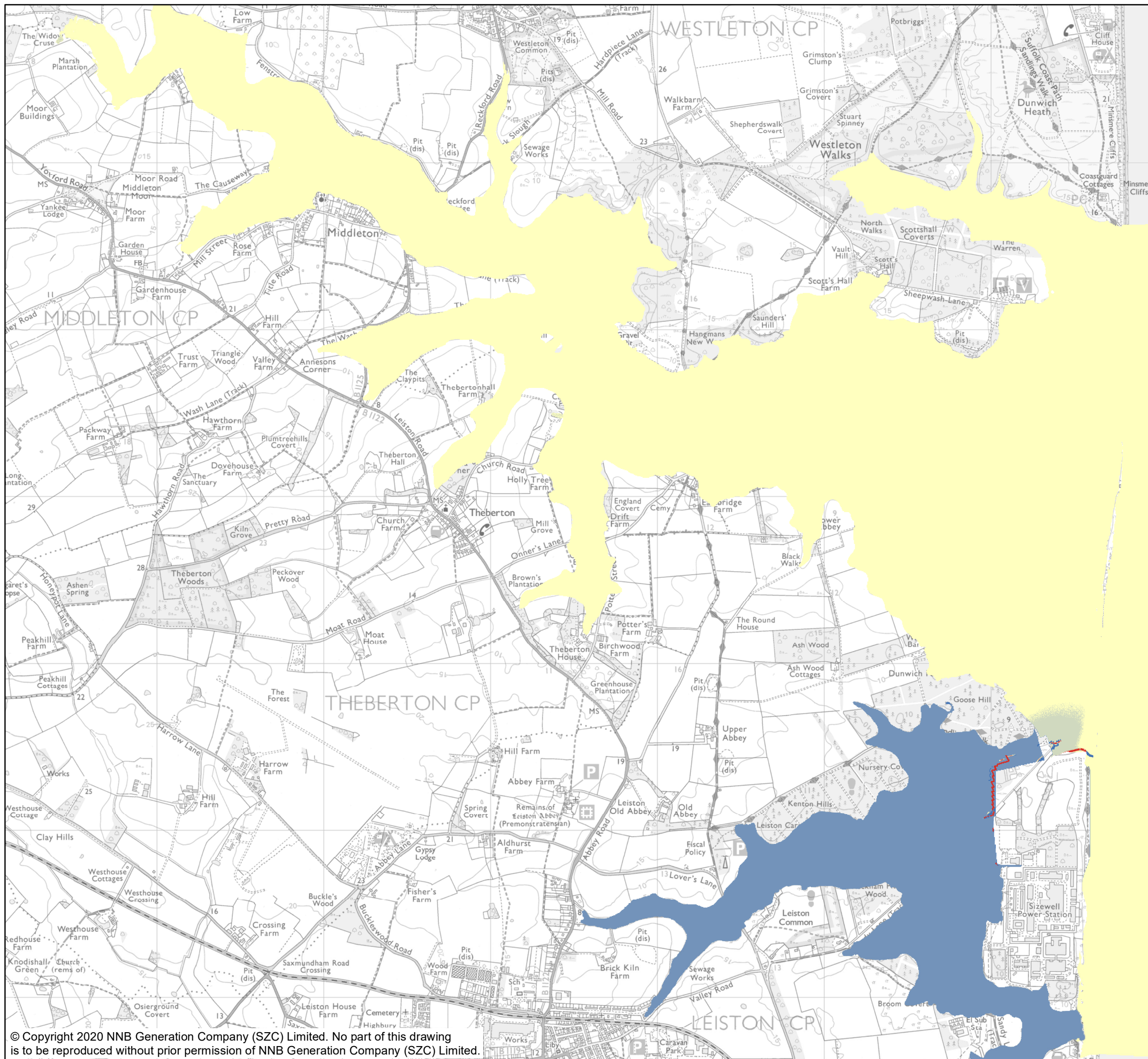
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**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD DEPTH  
 1000 YEAR COASTAL INUNDATION EVENT 2030

**DRAWING NO:**  
 FIGURE C.19

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3



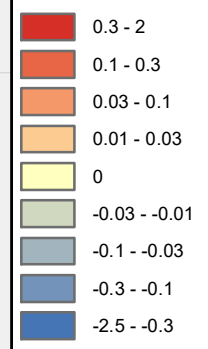


**NOTES**

**KEY**

**200 YEAR COASTAL INUNDATION EVENT**

**FLOOD DEPTH DIFFERENCE (m)**



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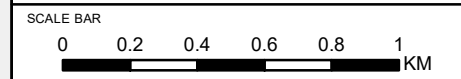


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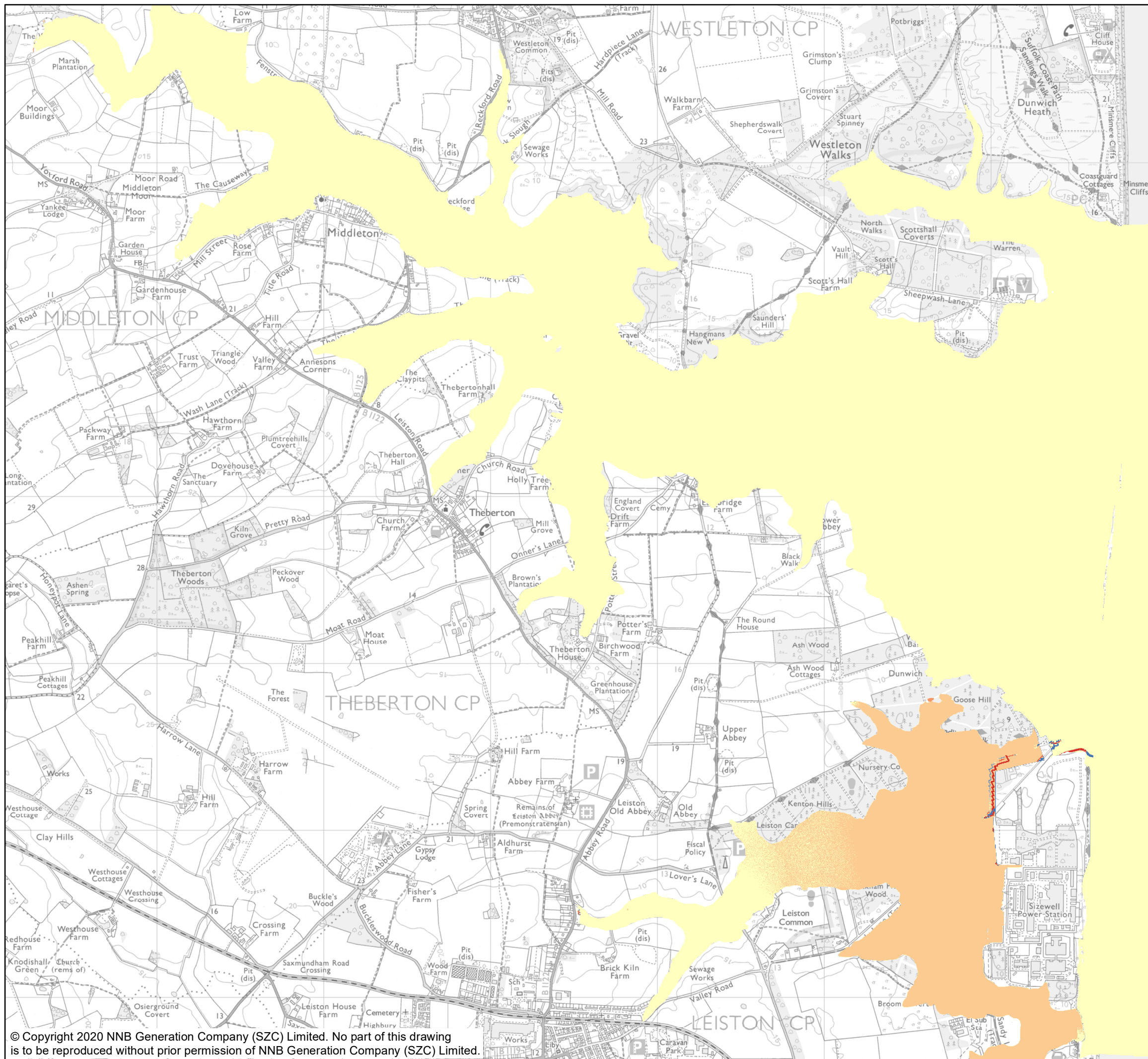
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 DIFFERENCE IN FLOOD DEPTH  
 200 YEAR COASTAL INUNDATION EVENT 2190

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 FIGURE C.20

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3







**NOTES**

**KEY**

**1000 YEAR COASTAL INUNDATION EVENT**

**FLOOD DEPTH DIFFERENCE (m)**

- 0.3 - 2
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 2.5 - -0.3

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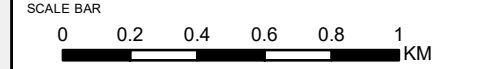


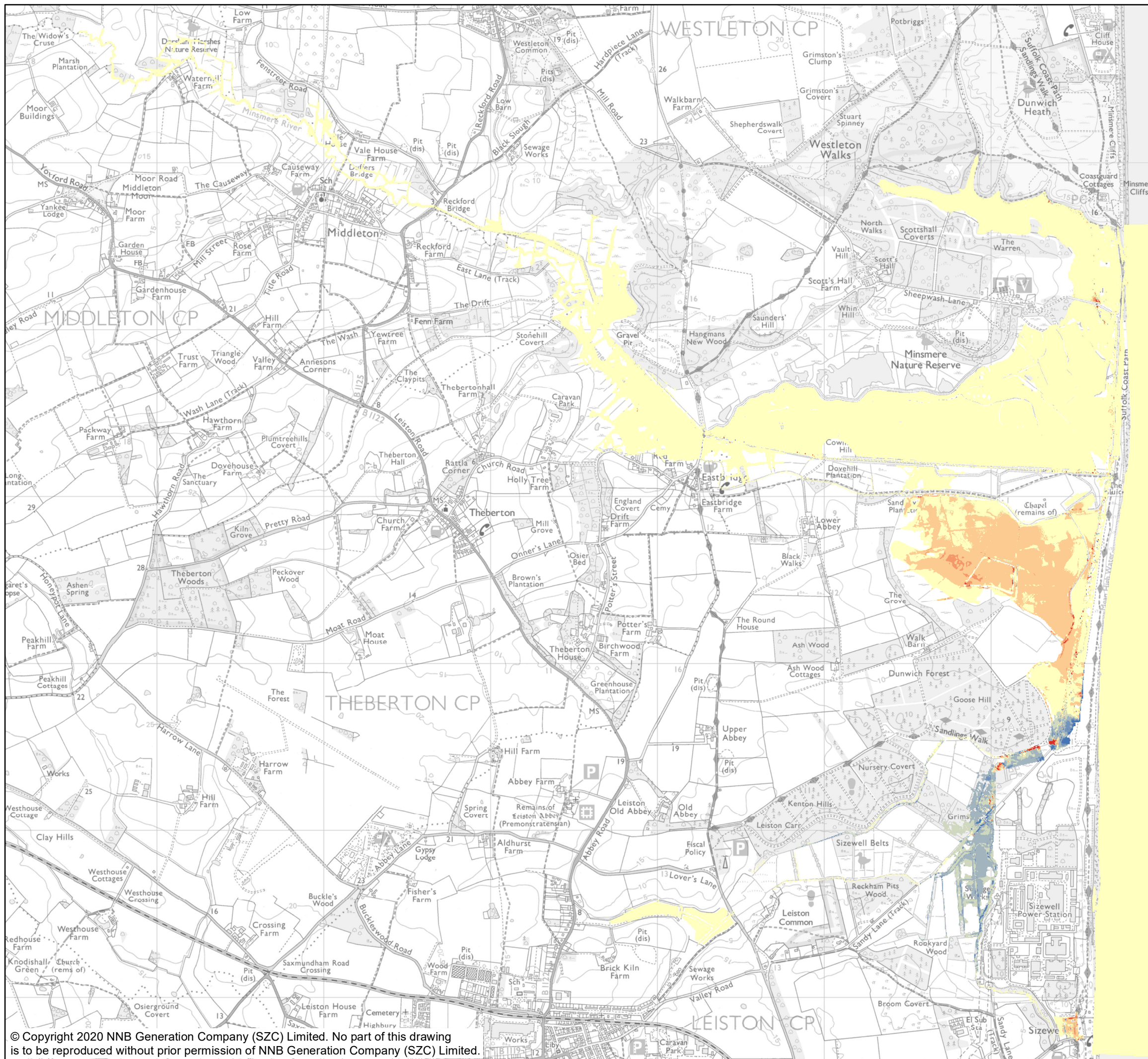
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**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD DEPTH  
 1000 YEAR COASTAL INUNDATION EVENT 2190

**DRAWING NO:**  
 FIGURE C.21

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3



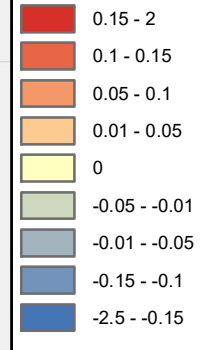


**NOTES**

**KEY**

**200 YEAR COASTAL INUNDATION EVENT 2030**

**FLOOD VELOCITY DIFFERENCE (M/S)**



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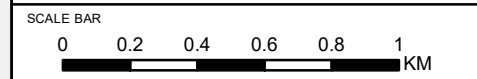


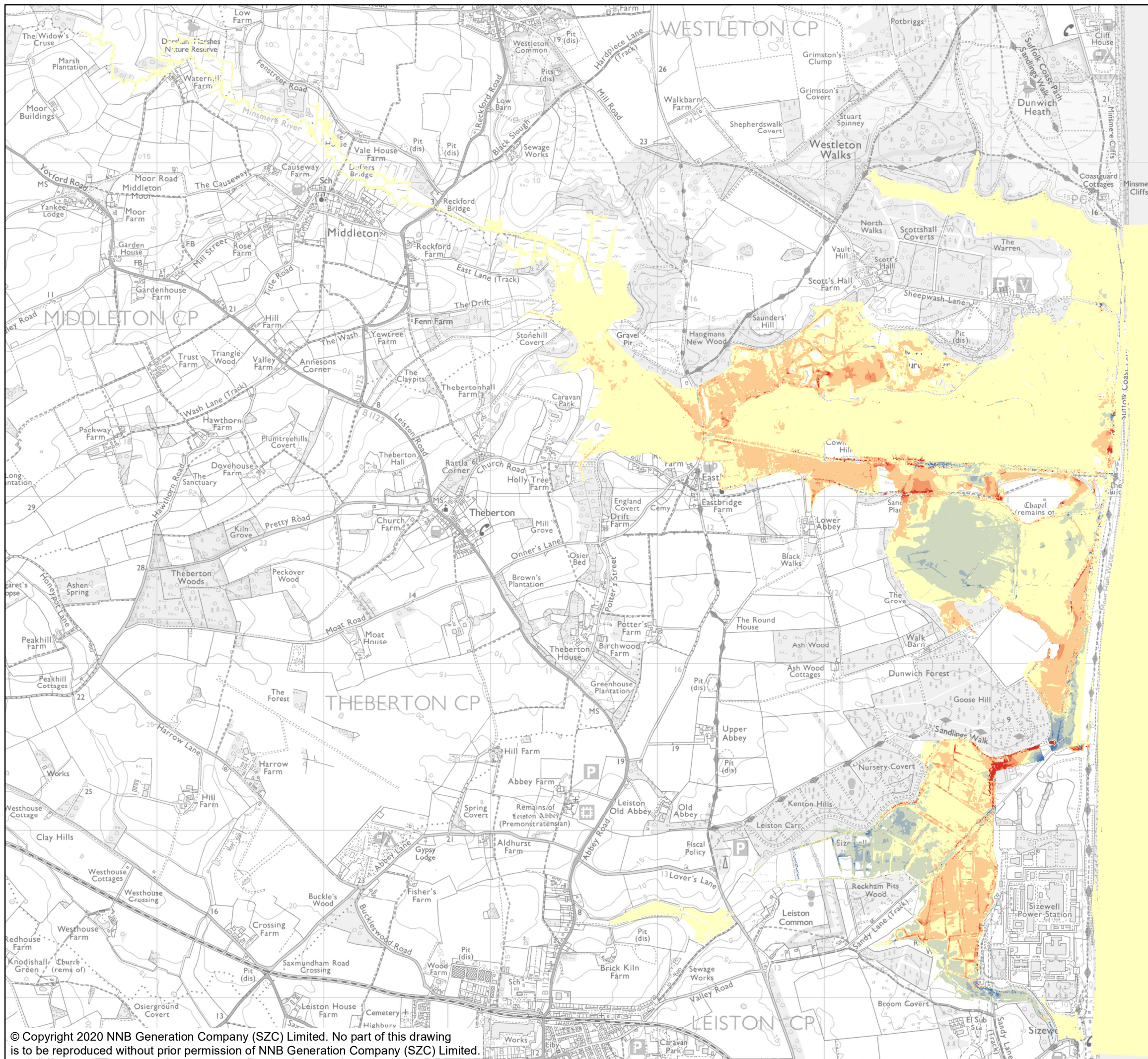
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 COASTAL INUNDATION MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD VELOCITY  
 200 YEAR COASTAL INUNDATION EVENT 2030

**DRAWING NO:**  
 FIGURE C.22

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3



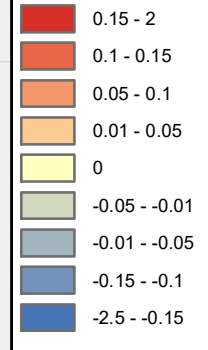


**NOTES**

**KEY**

1000 YEAR COASTAL INUNDATION EVENT 2030

FLOOD VELOCITY DIFFERENCE (M/S)



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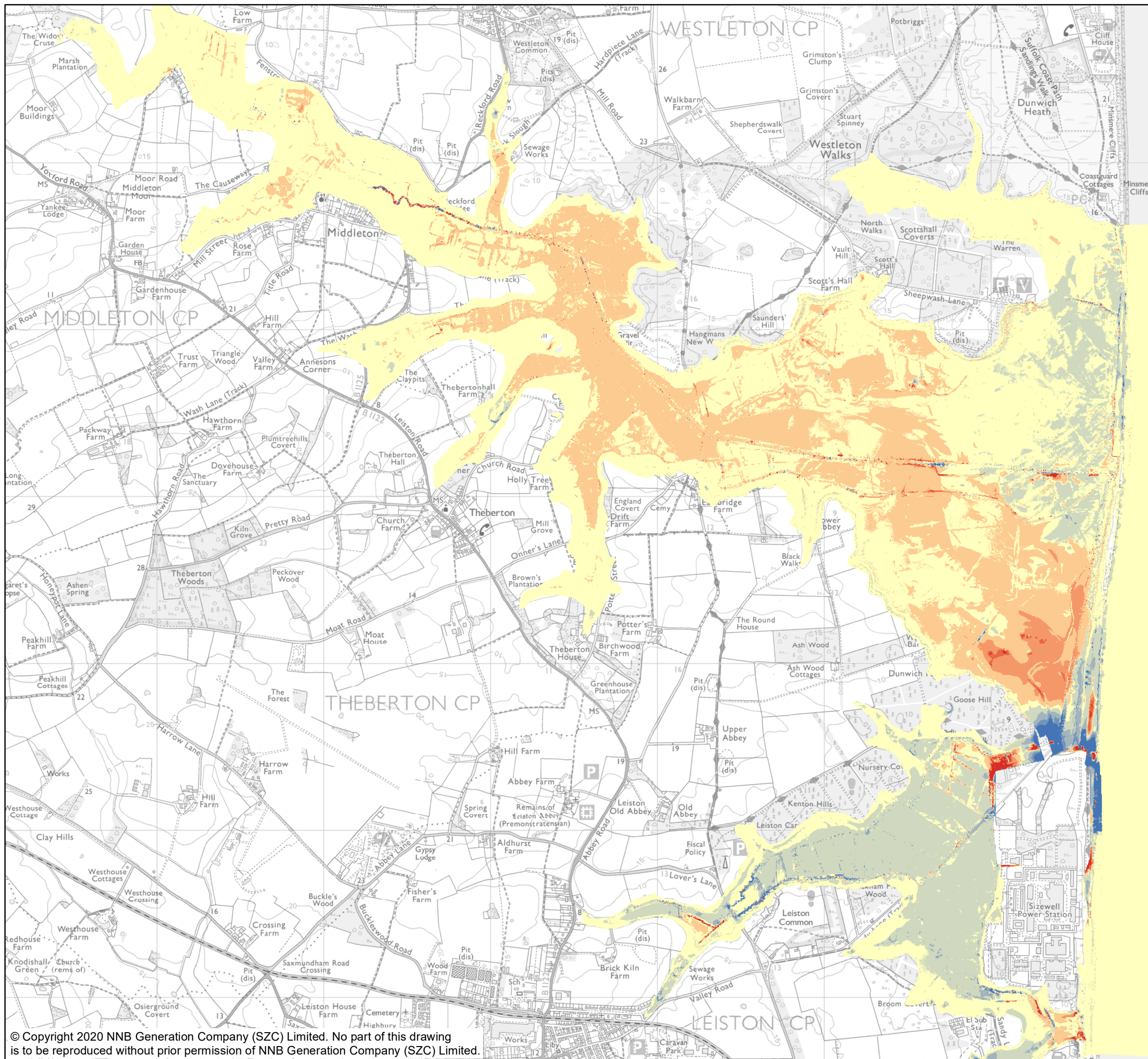
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**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD VELOCITY  
 1000 YEAR COASTAL INUNDATION EVENT 2030

**DRAWING NO:**  
 FIGURE C.23

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3



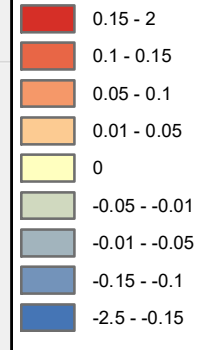


**NOTES**

**KEY**

**200 YEAR COASTAL INUNDATION EVENT 2190**

**FLOOD VELOCITY DIFFERENCE (M/S)**



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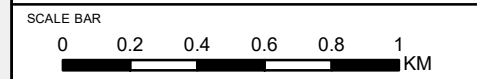


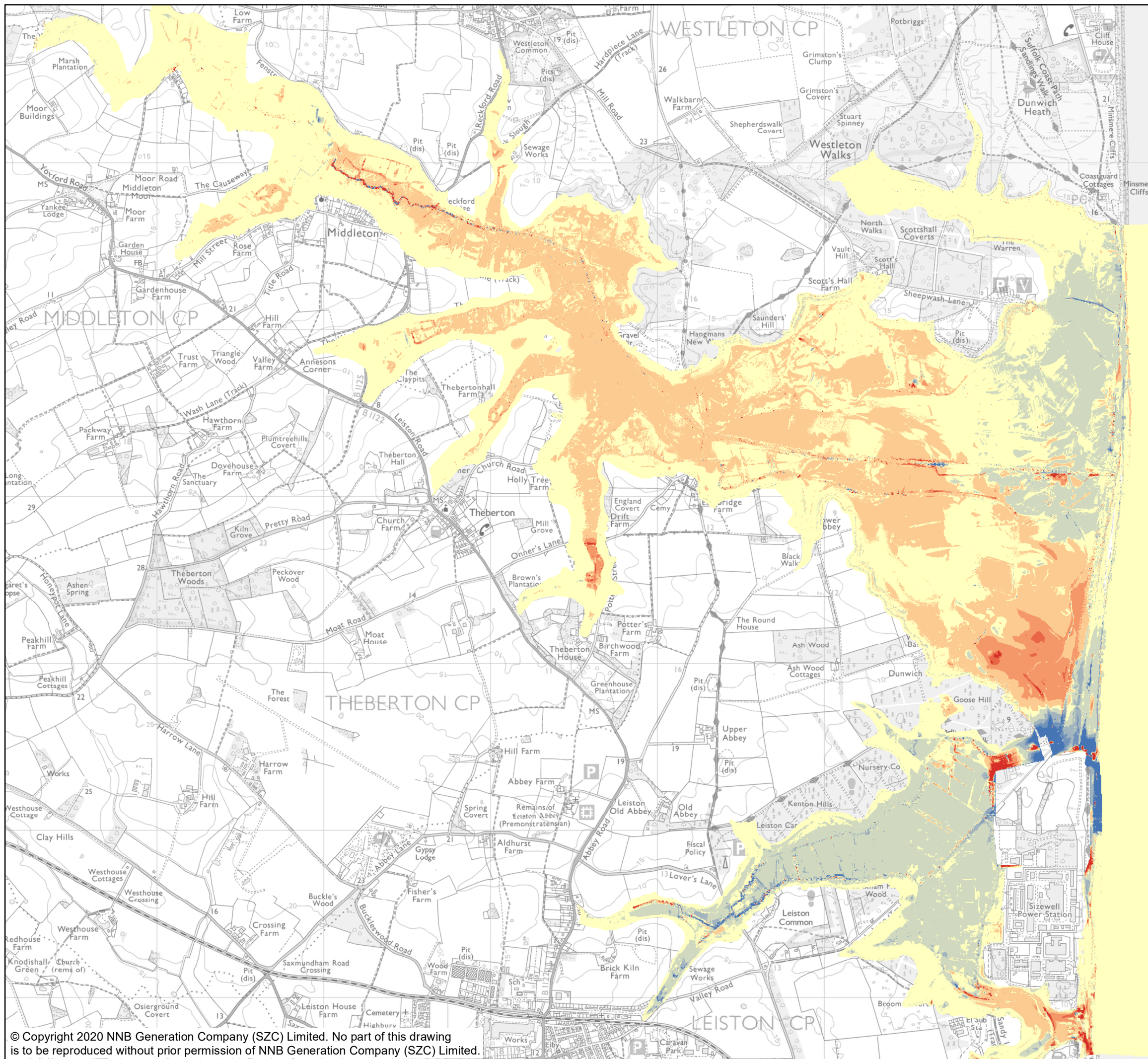
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 COASTAL INUNDATION MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD VELOCITY  
 200 YEAR COASTAL INUNDATION EVENT 2190

**DRAWING NO:**  
 FIGURE C.24

**DATE:** FEB 2020     **DRAWN:** J.T.     **SCALE:** 1:22,500 @A3





**NOTES**

**KEY**

**1000 YEAR COASTAL INUNDATION EVENT 2190**

**FLOOD VELOCITY DIFFERENCE (M/S)**

- 0.15 - 2
- 0.1 - 0.15
- 0.05 - 0.1
- 0.01 - 0.05
- 0
- 0.05 - -0.01
- 0.01 - -0.05
- 0.15 - -0.1
- 2.5 - -0.15

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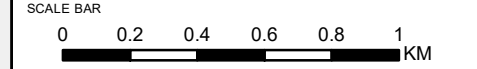


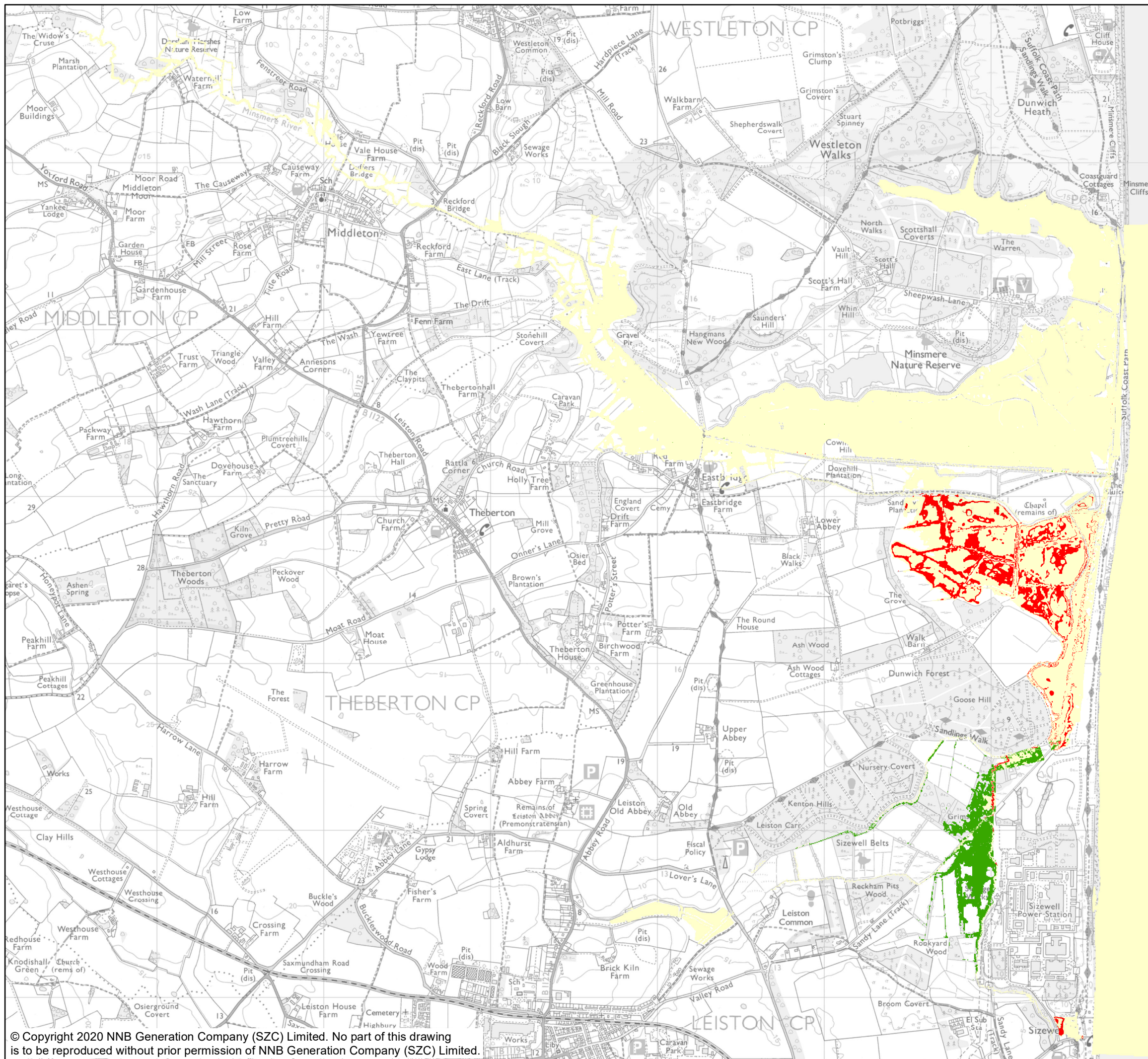
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 DIFFERENCE IN FLOOD VELOCITY  
 1000 YEAR COASTAL INUNDATION EVENT 2190

**DRAWING NO:**  
 FIGURE C.25

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





- NOTES**
- KEY**
- FLOOD HAZARD**
- HAZARD RATING CLASS INCREASE
  - NO CHANGE
  - HAZARD RATING CLASS DECREASE

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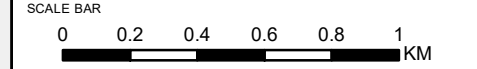


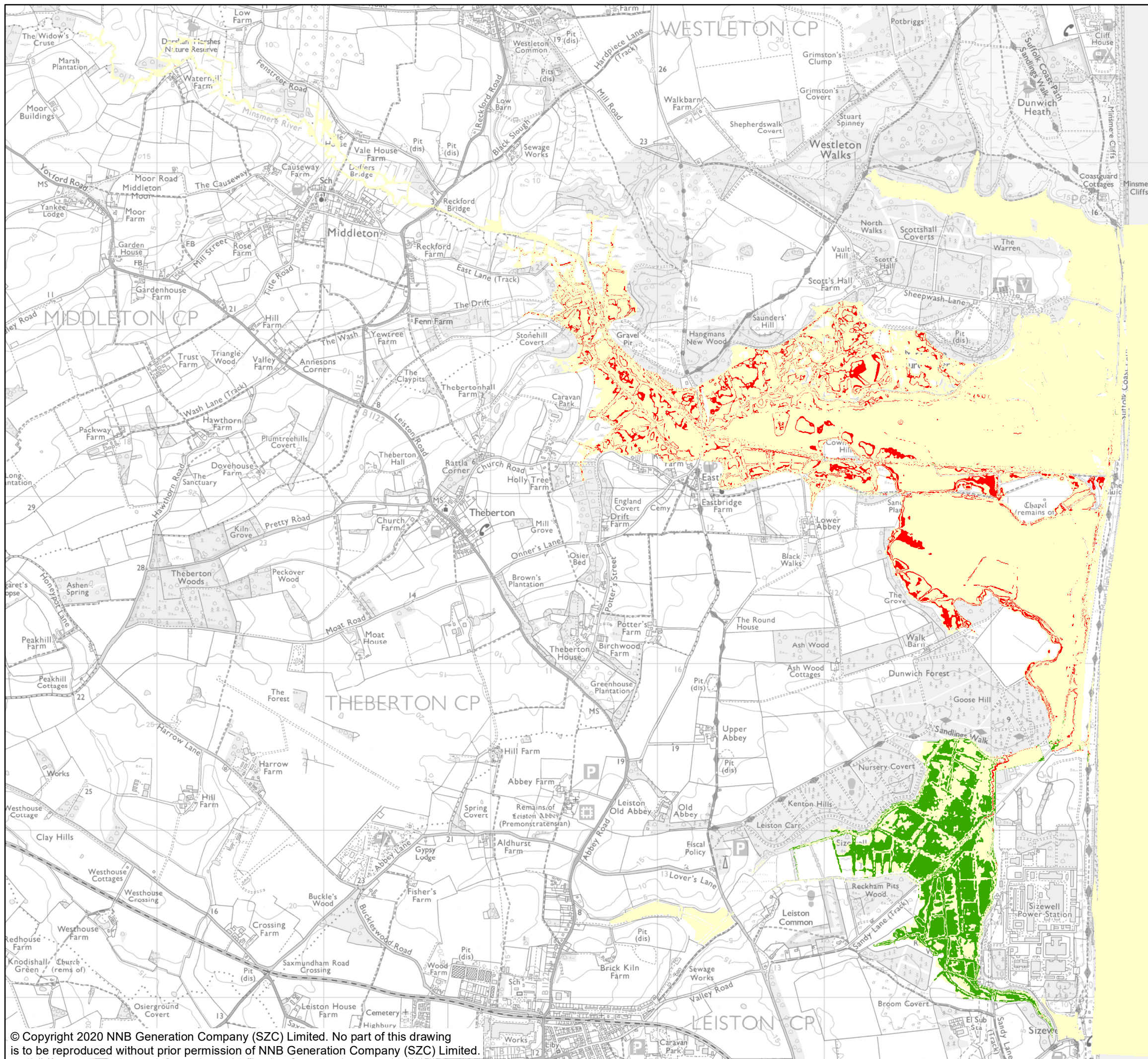
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 COASTAL INUNDATION MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD HAZARD RATING  
 200 YEAR COASTAL INUNDATION EVENT 2030

**DRAWING NO:**  
 FIGURE C.26

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3





- NOTES**
- KEY**
- FLOOD HAZARD**
- HAZARD RATING CLASS INCREASE
  - NO CHANGE
  - HAZARD RATING CLASS DECREASE

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 FLOOD RISK ASSESSMENT  
 COASTAL INUNDATION MODEL RESULTS

**DRAWING TITLE:**  
 DIFFERENCE IN FLOOD HAZARD RATING  
 1000 YEAR COASTAL INUNDATION EVENT 2030

**DRAWING NO:**  
 FIGURE C.27

**DATE:** FEB 2020      **DRAWN:** J.T.      **SCALE:** 1:22,500 @A3

