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KILMARTIN PLOWMAN & PARTNERS LIMITED

LAND AT COOPER BRIDGE, HUDDERSFIELD

FLOOD EMERGENCY PLAN

NOVEMBER 2023

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FLOOD EMERGENCY PLAN

NOVEMBER 2023

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SH10243-007	Sections With Interpolated Flood Zones
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1 INTRODUCTION

- 1.1.1 Wardell Armstrong have been instructed by Kilmartin Plowman & partners limited to produce a Flood Emergency Plan for the development of office space at the disused WWTW on Cooper Bridge Road.
- 1.1.2 The site is identified as being at flood risk and therefore a Flood Plan is required to outline risk of flooding in the location, to detail the flood warnings available and to detail how the plan is triggered, and what actions are required by those people on site.
- 1.1.3 The location covered by this plan is disused WWTW at Cooper Bridge Road, WF14 0BT as shown in Figure 1.



Figure 1 – Site Location Plan
(Source: www.google.co.uk/maps)

2 ASSESSMENT OF FLOOD RISK

2.1 Proximity to Watercourses

2.1.1 The nearby surface watercourses are:

- The River Calder, a main river, which flows from west to east along the south-eastern boundary of the southern part of the site.
- The Nun Brook, an ordinary watercourse, which flows beneath Leeds Road and along the north-eastern site boundary to join the River Calder.

2.2 Fluvial Flood Risk

- 2.2.1 The EA Flood Map for Planning – see Appendix A – shows the site to be located in Flood Zone 3 which has a high probability of flooding and the chance of flooding each year is 1.0% (1 in 100) or greater.
- 2.2.2 Owing to being raised on concrete walls, the filter beds are shown to be located in Flood Zone 2 which has a moderate probability of flooding and the chance of flooding each year is between 1.0% (1 in 100) and 0.1% (1 in 1,000).
- 2.2.3 For some unexplained reason, the EA Flood Map for Planning shows irregular areas of Flood Zone 3 within the extent of the filter beds. This is inconsistent with the regular orthogonal geometry of the filter beds and has consequently been disregarded.
- 2.2.4 The site appears to flood from two directions. The south east of the site, bound by the River Calder and the flood levels for this section have been provided by the EA. The 100 yr. flood level (extent of Flood Zone 3) for the river Calder is given as varying between 48.33m by the railway embankment and 47.99m at the confluence of the Calder and Nunn Brook. The corresponding 1000 yr. flood levels (extent of Flood Zone 2) are 49.83m and 49.34m respectively.
- 2.2.5 The western corner of the site appears to flood from overland flow passing under the rail bridge on Copper Bridge Road. The 100 yr. flood levels for the River Calder adjacent to Cooper Bridge Road vary from 50.09m near the WWTW to 49.12m at the A62. The corresponding 1000 yr. levels are 51.27m and 50.64m respectively. This flood water flows from west to east across the site towards the River Calder.
- 2.2.6 Refer to Appendix A for information on the fluvial flooding affecting the site.
- 2.2.7 Due to the impacts of climate change it may not be possible to say exactly how deep flood water will be, and any flooding may be higher or lower than estimated or

experienced before. People on site need to beware of this possibility, and the likely implications on how they can evacuate safely.

2.3 Other Sources of Flood Risk

2.3.1 The site is not considered to be at risk of flooding from any other source.

3 FLOOD WARNINGS

3.1 Flood Forecasting and Warning Service

3.1.1 The EA operate a flood forecasting and warning service in areas at risk of flooding from rivers or the sea, which relies on direct measurements of rainfall, river levels, tide levels, in-house predictive models, rainfall radar data and information from the Met Office. This service operates 24 hours a day, 365 days a year.

3.1.2 If flooding is forecast, warnings are issued using a set of easily recognisable codes. A description of the codes is shown in figure 2.

<u>Flood Alert</u> 	Key Message: Flooding is possible. Be prepared Timing: 2 hours to 2 days in advance of flooding Actions: Be prepared for flooding Prepare a flood kit of essential items Monitor local water levels and flood forecasts
<u>Flood Warning</u> 	Key Message: Flooding is expected. Immediate Action Required Timing: Half an hour to 1 day in advance of flooding Actions: Act now to protect your property Block doors with flood boards or sandbags and cover airbricks and other ventilation holes Move family, pets and valuables to a safe place Turn off gas, electricity and water supplies if safe to do so Keep a flood kit ready Move cars, pets, food, valuables and important documents to safety
<u>Severe Flood Warning</u> 	Key Message: Severe flooding. Danger to life Timing: When flooding poses a significant threat to life and different actions are required Actions: Stay in a safe place with a means of escape Be ready should you need to evacuate from your home Co-operate with the emergency services Call 999 if you are in immediate danger
<u>Warnings no longer in force</u> (no icon)	Key Message: No further flooding is currently expected for your area Timing: When river or sea conditions begin to return to normal Actions: Be Careful. Flood water may still be around for several days and could be contaminated If you've been flooded, ring your insurance company as soon as possible

Flood Alerts are to warn people of the possibility of flooding and encourage them to be alert, stay vigilant and to make early preparations for flooding.

Flood Warnings are to warn people flooding is expected and encourage them to take immediate action to protect themselves and their property.

Severe Flood Warnings are to warn people of a significant risk to life or significant disruption to communities caused by widespread or prolonged flooding, and encourage them to take immediate action to protect themselves and follow the advice of the emergency services.

Warnings are removed to inform people that the threat has now passed.

Figure 2 – Environment Agency Warning Codes
 (Source: Environment Agency)

- 3.1.3 The proposed site falls within the flood warning area of lower River Calder catchment. This area covers the River Calder from Brighouse to Castleford.

3.2 Floodline Register

- 3.2.1 Kilmartin Plowman & Partners Limited will be responsible for ensuring that each employee is advised to register with the EA Flood Warnings Service so that they receive warnings through this system.
- 3.2.2 Floodline Warnings is a free service operated by the EA that provides flood warnings direct to you by phone, email or text message. Employees can sign up for Flood Warnings by calling Floodline on 0345 988 1188 or online at <https://www.fws.environment-agency.gov.uk/app/olr/register>

4 RESPONSE ACTIONS / CONSIDERATIONS

4.1 Flood Protection

4.1.1 There are a multitude of flood defences along the River Calder. The range of defences are shown in Appendix A. These flood defences are seen to be in satisfactory condition and lower the risk of flooding (at the defence) to a 33.3% (1 in 30) chance of occurring at the site in any year.

4.1.2 Should the defences overtop by an event in excess of the 30-year event the site is at risk of fluvial flooding. Based on the maximum water levels provided by the EA for the 100 year event it is anticipated that water levels will range from 50.09m in the west at Cooper Bridge Road, to 47.99m in the south east at the confluence of the Calder and Nunn Brook. The finished floor level of the proposed office is 49.50mAOD. Flood routing on the site will direct flood water from west to east towards the River Calder.

4.2 Access and Egress Route

4.2.1 At return periods at or below 30-year event the site is understood to be protected by fluvial flood defences and therefore safe access and egress is available.

4.2.2 Flooding from the 100-year flood event will cause flood water to affect all areas of the site. As a result, there is no possible dry access and egress from the site for this event. The EA have produced guidance for new developments in flood risk areas. If a dry access is not possible, a route for people where the flood hazard is low should be provided.

4.2.3 A route along the southern side of the building will be provided, exiting onto Cooper Bridge Road. The 1 in 100 year flood event level in this area is 50.01mAOD, which originates from overland flow passing under the rail bridge. This water will enter the site on the western border. The minimum ground level in this area is 49.73mAOD, meaning the maximum depth of water will be 0.28m. The ground levels increase in this area as you move towards the building meaning that flood waters stop after reaching a level higher than 50.01mAOD. The flood levels are shown drawing SH10243-007.

4.2.4 The proposed exit route is shown on drawing LD10590-003. The path will be clearly marked in accordance with EA guidance. This path must also be clear of any service covers that could be removed during a flood event. It must be ensured that none of the employees drive their vehicles through flood water, and should only exit the site by foot. Only emergency vehicles may use this route.

4.3 Prior Evacuation

4.3.1 Prior to evacuation the employers should:

- Turn off gas, water and electricity
- Move any valuable items to safety
- Move car to safety
- Move pets to safety

4.3.2 Employers should ensure they have a flood kit which they will need to take with them if evacuated.

4.4 Safe Refuge

4.4.1 The finished floor level of the building is below the 1 in 100 year flood level at points across the site. As a result the employers should make their way along the proposed egress route to Cooper Bridge Road.

4.5 Flood Kit

4.5.1 Employers should ensure that they have a flood kit prepared, the following items should be included:

ESSENTIAL ITEMS:

- Copy of important documents e.g. passports, home insurance certificate, driver's licence.
- Emergency cash/credit cards
- Prescription medicine
- Personal flood plan. (refer to Appendix B for the EA Personal Flood Plan template)
- First aid kit
- Bottled water

USEFUL ITEMS:

- Mobile phone & charger
- Torch & batteries or wind up torch
- Radio and batteries or wind up radio

- Camera
- Blankets and warm/waterproof clothing

4.6 Reoccupation of the Site

4.6.1 Depending on the severity of the flood, the following actions should be considered prior to re-occupation of the site, these recommendations are based on there being no internal property flooding.

- Do not walk through flowing water – Currents can be deceptive, and shallow, fast-moving water can knock you off your feet.
- If you have to walk in standing water, use a pole or stick to ensure that you do not step into deep water, open manholes or ditches.
- Do not drive through a flooded area – You may not be able to see abrupt drop-offs and only half a metre of flood water can carry a car away.
- Avoid contact with flood water – It may be contaminated with sewage, oil, chemicals or other substances.
- People with health problems should avoid flood water and flooded areas until cleanup is complete.
- If you follow provided guidelines, you should not have any health issues. However, you should speak to your doctor if you feel sick or if you swallow mud or water that is contaminated.
- Before entering property that has been flooded, the outside of the building should be checked for signs of structural damage. Look for obvious signs of potential instability in the building – deep scouring of the surrounding ground or impact by the water or heavy objects. If there are any such signs, do not enter the building until a structural engineer, or your insurance loss adjuster, has inspected it.
- Where the flood defences have not been overtopped, an inspection should be undertaken of the earth embankments or concrete floodwalls to ensure there has been no slippage or erosion prior to re-commencing operations on the development.

5 KEY CONTACTS

5.1 Document Control

5.1.1 This Plan will be owned, maintained, and updated by Kilmartin Plowman & Partners Limited or a management company appointed on their behalf. All employers are asked to advise Kilmartin Plowman & Partners Limited of any changes in circumstances that may materially affect the plan in any way.

5.1.2 The plan will be reviewed at least every three years, as a result of lessons identified after an activation event, following major changes of personnel or policy, or following any change to the flood risk or warning process.

5.2 Kilmartin Plowman & Partners Limited Company Key Contacts

5.2.1 Table 1 lists the key contacts at Kilmartin Plowman & Partners Limited/Management Company. (This will be updated on the sale of the properties)

Table 1: Story Contracting Key Contacts		
Name	Position	Contact Number
	Manager	

5.3 Useful Contacts

5.3.1 Table 2 lists other useful numbers in the event of a flood

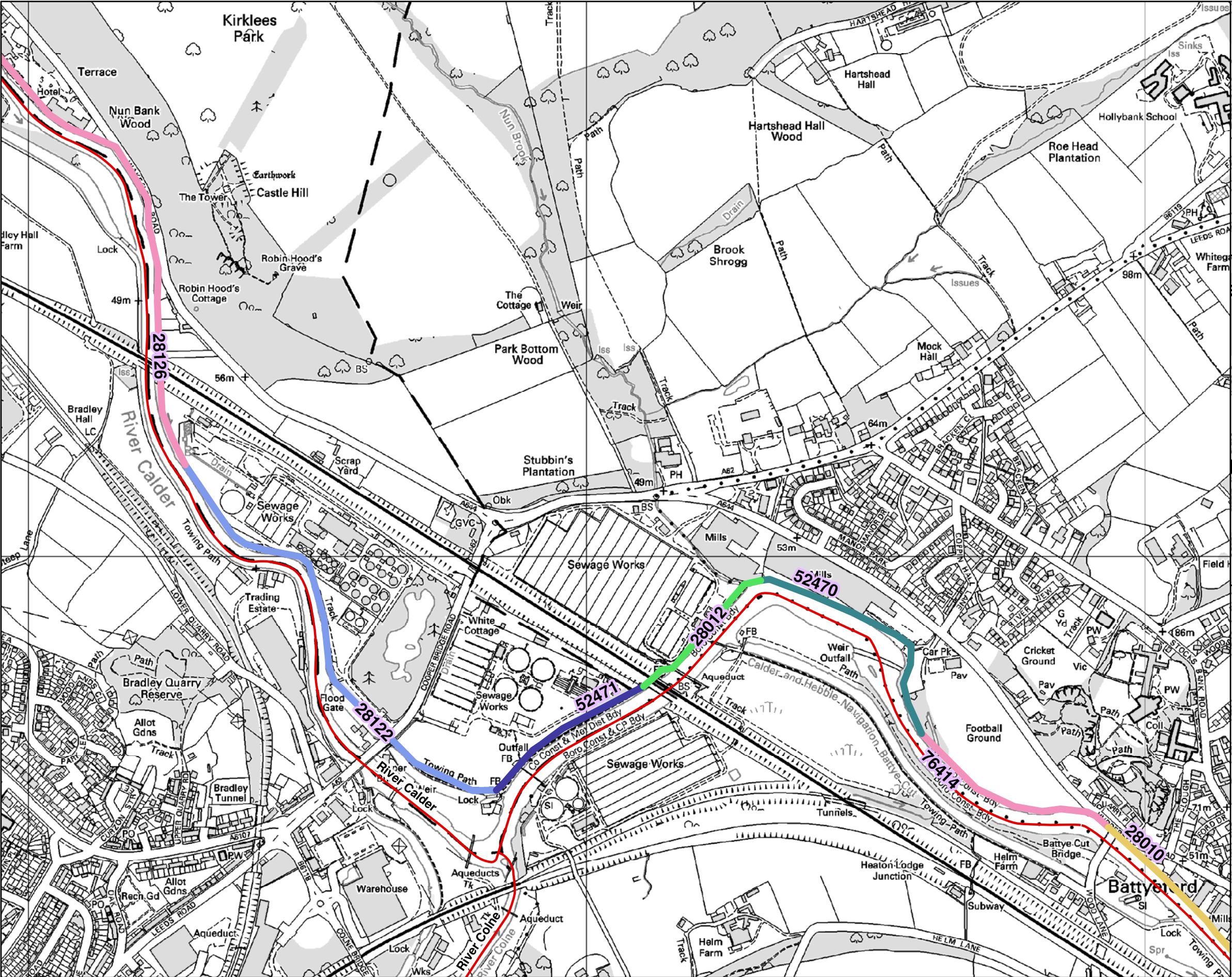
Table 2: Useful contact Numbers	
Organisation	Contact Number
Floodline	0845 988 1188
Anglian Water	0148 032 3891
National Grid Electricity Distribution	0800 096 3080
Cadent Gas	0800 688 588
Lincolnshire County Council	0152 278 2070

APPENDICES

APPENDIX A: Environment Agency Data

Asset Defence Information**RFI: 3151**

Asset ID	Asset Subtype	Asset Subtype	Asset Maintainer	Description	Design Standard of protection (yrs)	Actual Downstream Crest Level	Actual Upstream Crest Level	Actual condition Rating
28122	Defence	High ground	Private	HIGH GROUND AT SEWAGE TREATMENT WORKS	30			3
76414	Defence	High ground	Private	HIGH GROUND	30			3
52470	Defence	High ground	Private	WALLS	30			3
28010	Defence	High ground	Private	WALLS AND NATURAL BANK	30	44.9	47.22	3
28126	Defence	High ground	Private	HIGH GROUND	30			3
52471	Defence	High ground	Private	FLOODBANK	30	47.62	50.19	3
28012	Defence	High ground	Private	MASONRY WALL TO SEWAGE WORKS	30			3
28122	Defence	High ground	Private	HIGH GROUND AT SEWAGE TREATMENT WORKS	30			3
76414	Defence	High ground	Private	HIGH GROUND	30			3



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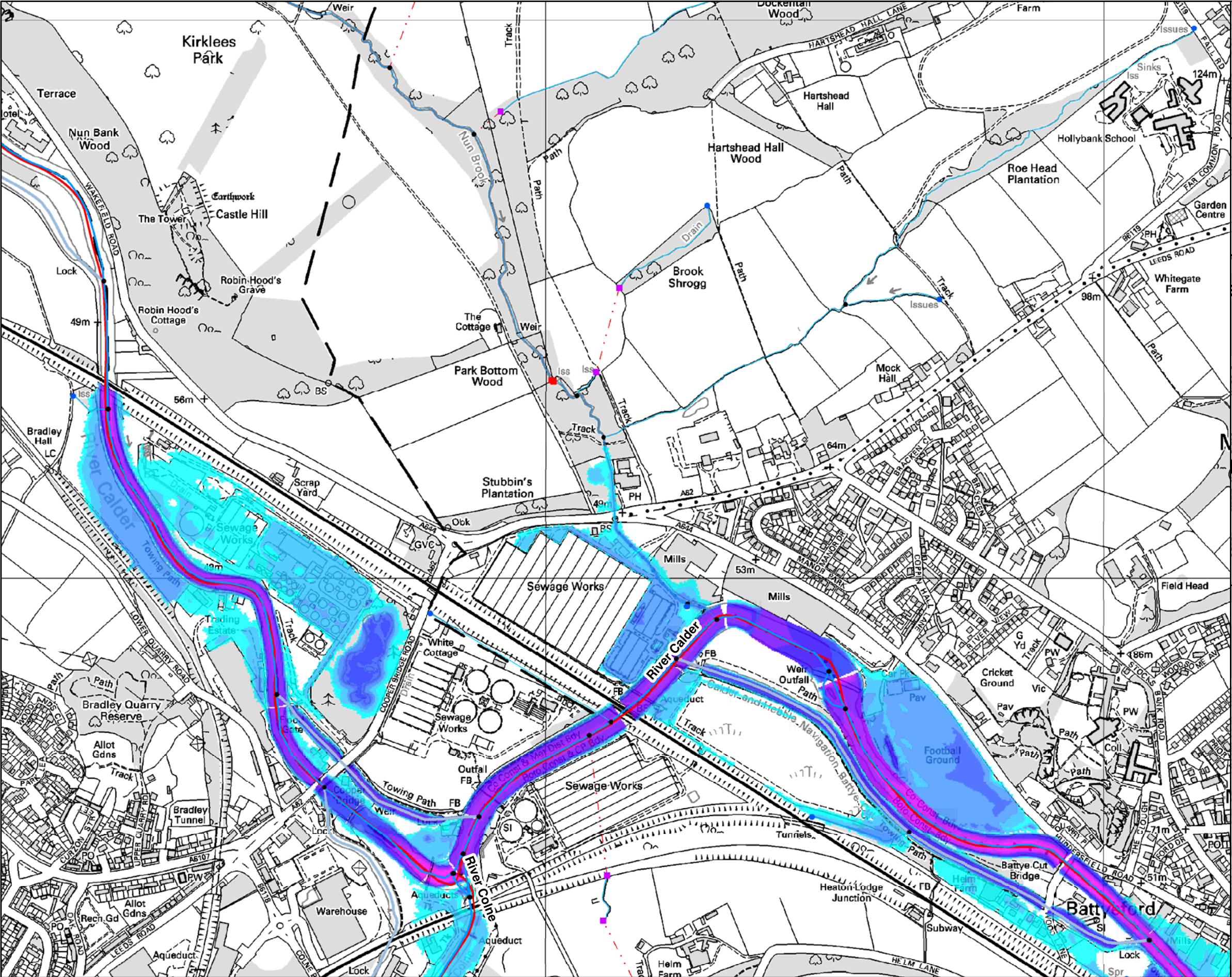


LEGEND

Defences	Description
	FLOODBANK
	HIGH GROUND
	HIGH GROUND AT SEWAGE TREATMENT WORKS
	MASONRY WALL TO SEWAGE WORKS
	WALLS
	WALLS AND NATURAL BANK
	Main River

Defended 100yr Depth Grids Cooper Bridge Road, Mirfield

RFI: 35983



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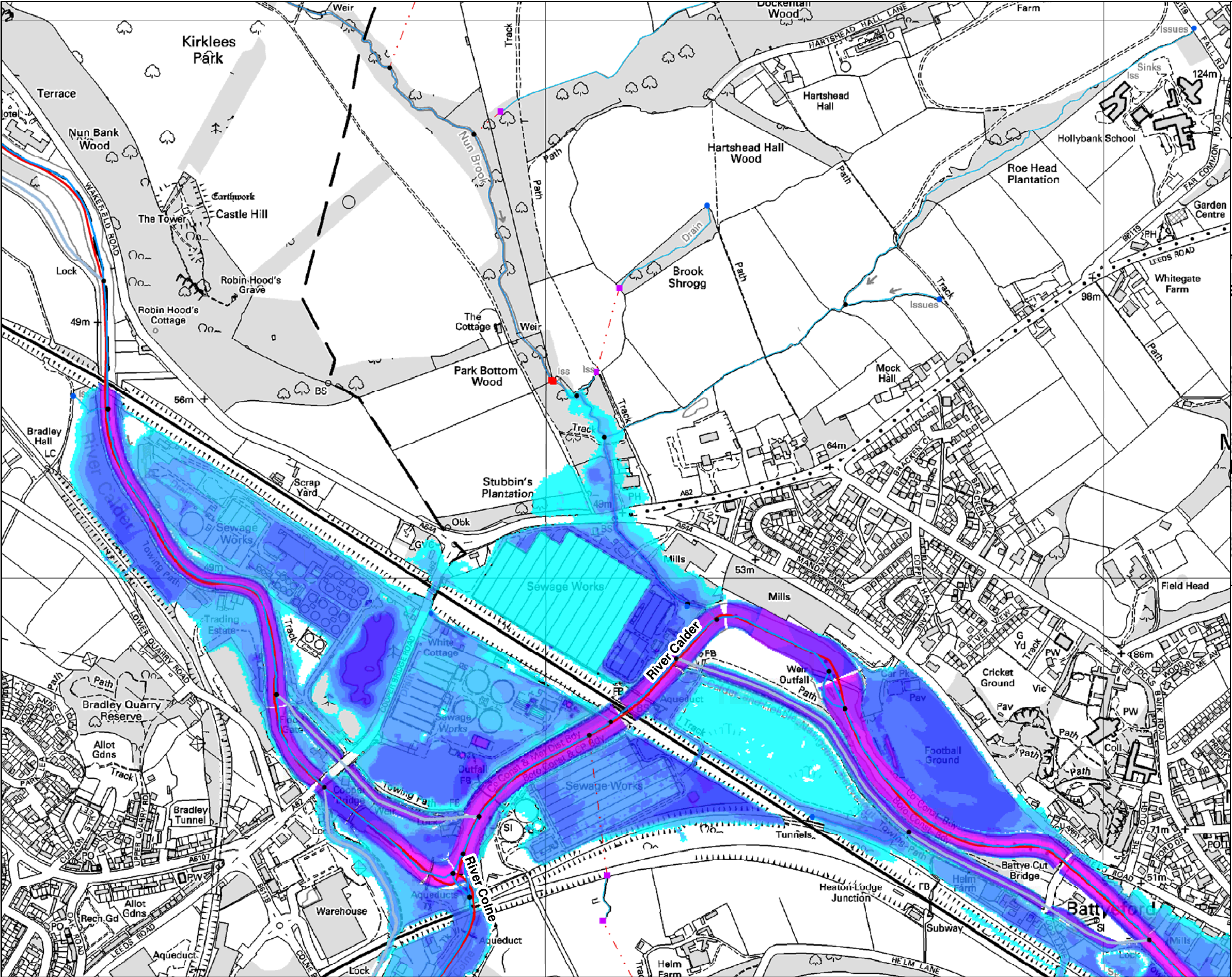


LEGEND

- Main River
- 0 - 0.56
- 0.57 - 1.18
- 1.19 - 1.86
- 1.87 - 2.57
- 2.58 - 3.38
- 3.39 - 4.18
- 4.19 - 4.92
- 4.93 - 5.6
- 5.61 - 6.32
- 6.33 - 7.9

Defended 1000yr Depth Grids Cooper Bridge Road, Mirfield

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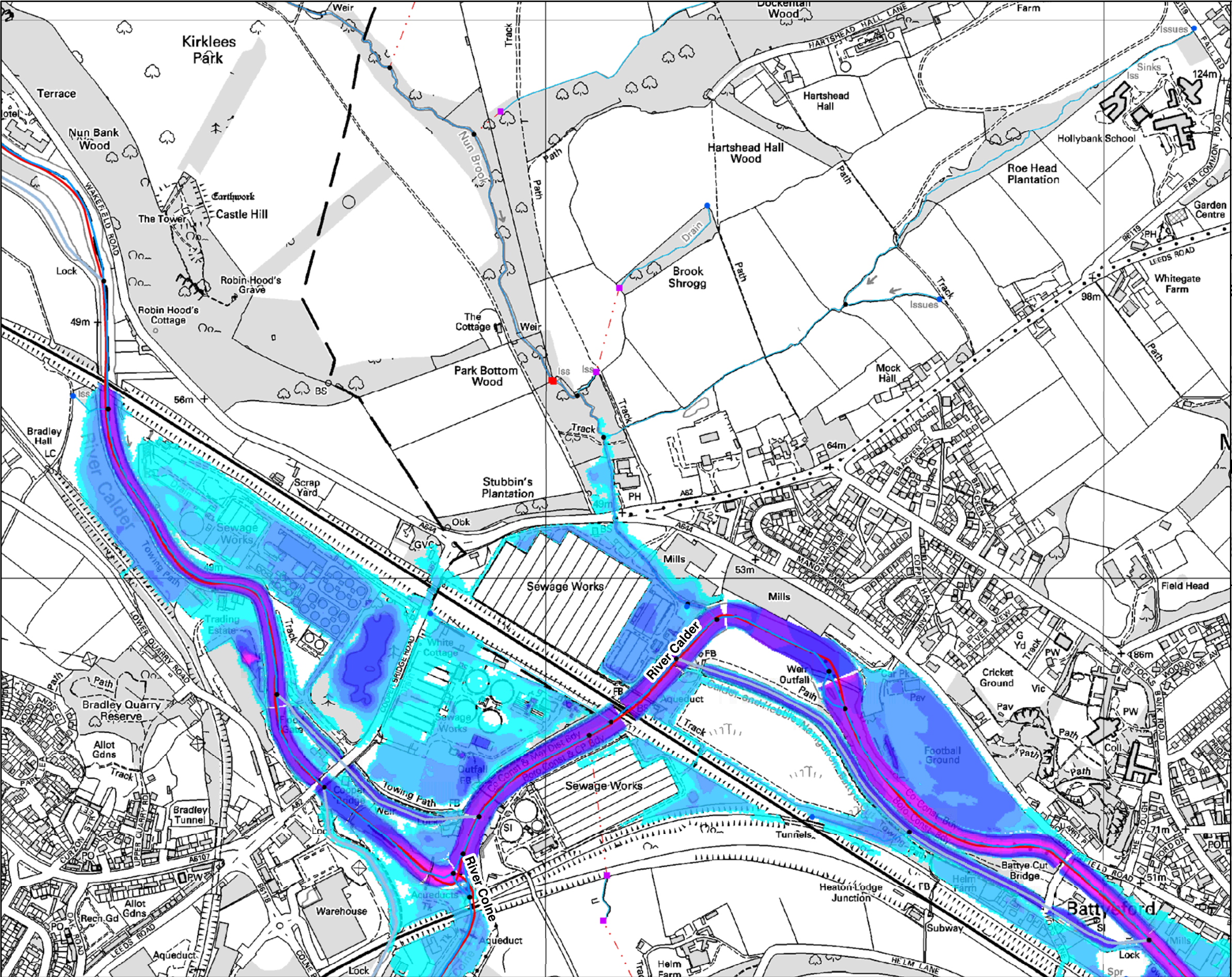


LEGEND

- Main River
- 0 - 0.7
- 0.71 - 1.4
- 1.41 - 2.1
- 2.11 - 2.8
- 2.81 - 3.61
- 3.62 - 4.57
- 4.58 - 5.57
- 5.58 - 6.45
- 6.46 - 7.27
- 7.28 - 9.4

Defended 100yr Climate Change Depth Grids Cooper Bridge Road, Mirfield

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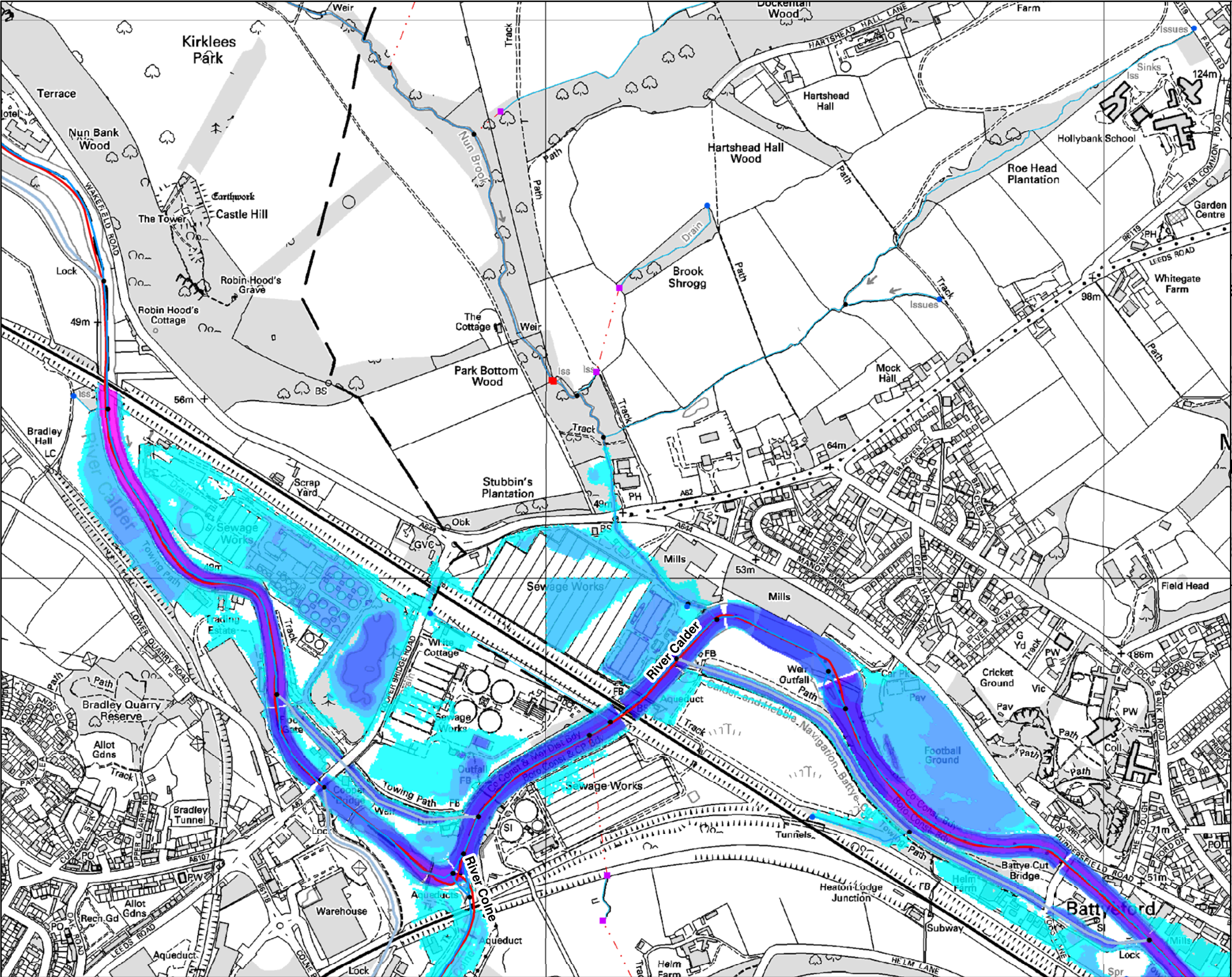


LEGEND

- Main River
- 0 - 0.65
- 0.66 - 1.34
- 1.35 - 2.07
- 2.08 - 2.86
- 2.87 - 3.78
- 3.79 - 4.7
- 4.71 - 5.48
- 5.49 - 6.17
- 6.18 - 6.87
- 6.88 - 11.38

Undefended 100yr Depth Grids Cooper Bridge Road, Mirfield

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LEGEND

- Main River
- 0 - 0.74
- 0.75 - 1.55
- 1.56 - 2.5
- 2.51 - 3.61
- 3.62 - 4.71
- 4.72 - 5.67
- 5.68 - 7.8
- 7.81 - 11.12
- 11.13 - 14.72
- 14.73 - 18.77

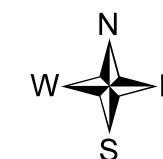
Undefended 1000yr Depth Grids Cooper Bridge Road, Mirfield

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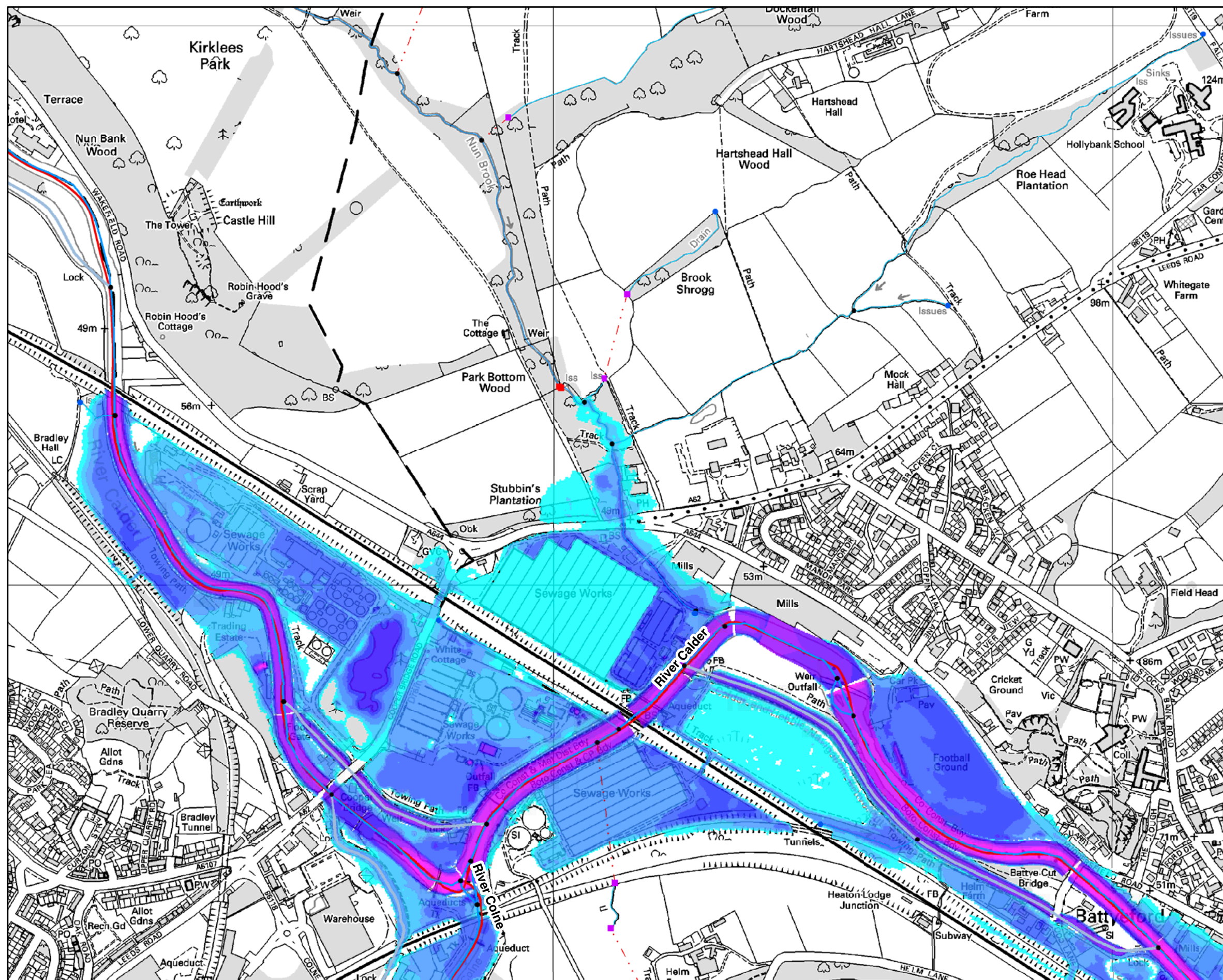


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LEGEND

- Main River
- 0 - 0.7
- 0.71 - 1.41
- 1.42 - 2.11
- 2.12 - 2.82
- 2.83 - 3.6
- 3.61 - 4.58
- 4.59 - 5.6
- 5.61 - 6.46
- 6.47 - 7.28
- 7.29 - 9.43



Node Point Information
RFI: 3151
Defended

Calder Model Defended Scenario Model Results (Stage - mAOD, Flow - m³/s)

Node Point	Return Period											
	2		5		10		25		30		50	
	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow
EA1231293 CALD11 0013u	46.96	230.39	47.41	315.05	47.51	333.64	48	419.26	48.09	433.26	48.27	463.67
EA1231293 CALD10 2301	46.65	231.57	46.97	316.04	47.03	334.19	47.45	420.29	47.53	433.66	47.7	463.96
EA1231293 CALD10 1809	45.55	231.4	46.19	309.96	46.32	323.61	46.98	349.45	47.09	351.69	47.31	354.64
EA1231293 CALD11 0013d	46.93	230.44	47.35	315.1	47.44	333.7	47.91	419.33	47.99	433.33	48.16	463.75
EA1231293 CALD10 2490d	46.82	230.43	47.2	315.02	47.28	333.57	47.73	416.21	47.82	426.96	48.02	446.04
EA1231293 CALD10 2365d	46.71	231.57	47.06	316.05	47.13	334.19	47.56	420.22	47.64	433.88	47.81	464.65
EA1231293 CALD10 2121d	45.84	231.58	46.52	316.05	46.65	334.2	47.22	420.26	47.31	433.5	47.5	463.1
EA1231293 CALD10 1760i	45.52	231.38	46.17	307.75	46.3	320.91	46.95	354.8	47.06	357.92	47.28	361.31
EA1231293 CALD10 1708i	45.5	231.31	46.14	309.5	46.27	323.78	46.88	378.19	46.99	382.98	47.21	388.57
EA1231293 CALD10 1656i	45.47	231.31	46.1	315.39	46.22	333.08	46.77	423.46	46.84	431.69	47.05	455.08

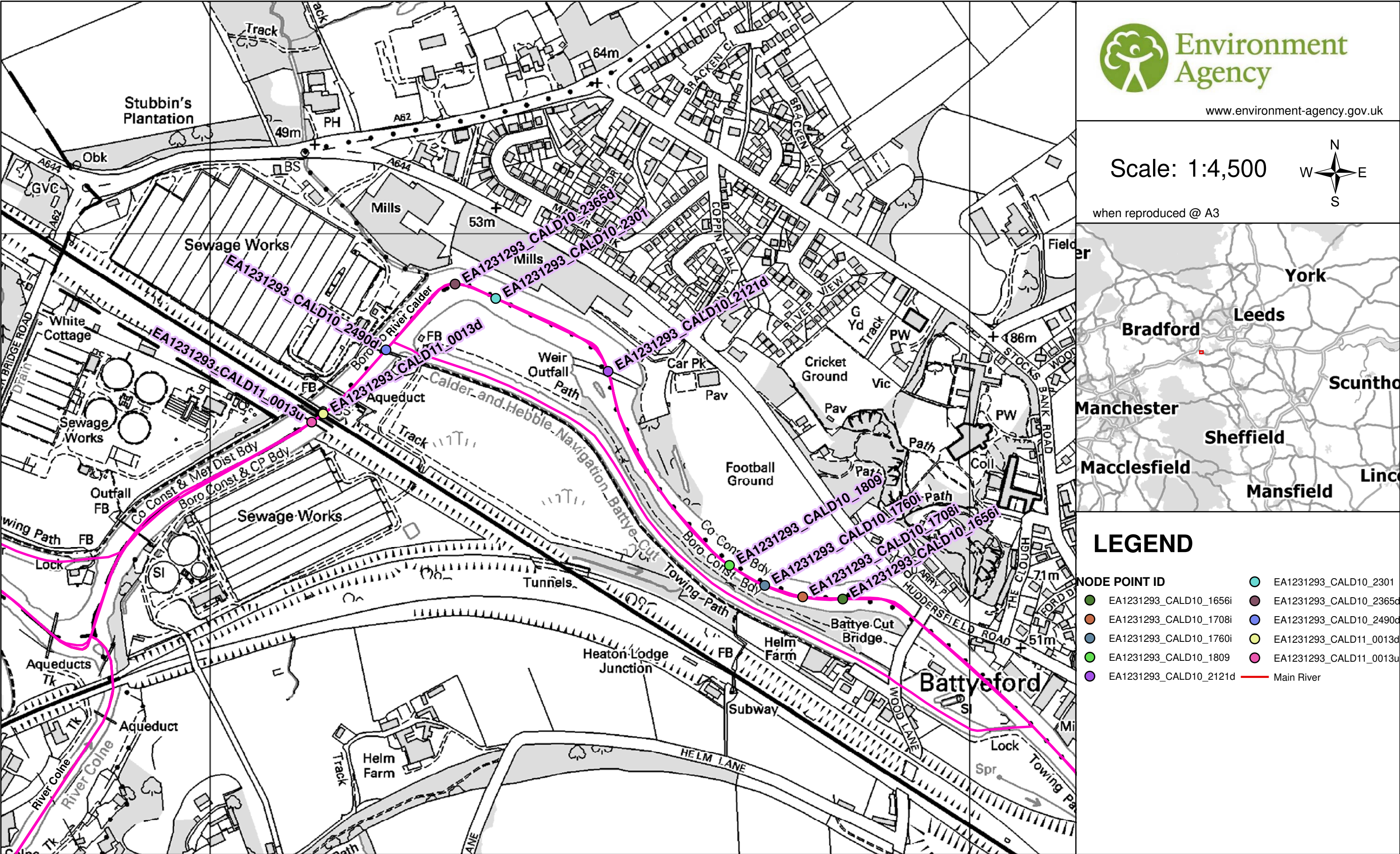
Node Point	Return Period									
	75		100		101		200		1000	
	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow	Max Level	Max Flow
EA1231293 CALD11_0013u	48.4	486.91	48.46	488.08	48.93	582.18	48.72	542.15	50.11	802.81
EA1231293 CALD10_2301	47.82	487.99	47.89	488.85	48.28	577.16	48.09	547.31	49.23	792.26
EA1231293 CALD10_1809	47.48	357.46	47.31	469.36	48.06	385.95	47.81	377.41	48.57	762.87
EA1231293 CALD11_0013d	48.29	486.99	48.35	488.24	48.8	582.37	48.6	542.25	49.83	802.95
EA1231293 CALD10_2490d	48.18	458.55	48.18	477.31	48.5	603.33	48.38	550.27	49.65	740.49
EA1231293 CALD10_2365d	47.93	488.95	47.99	488.87	48.39	577.71	48.2	548.51	49.34	789.87
EA1231293 CALD10_2121d	47.65	484.44	47.73	488.07	48.19	562.85	47.96	536.43	49.21	779.99
EA1231293 CALD10_1760i	47.45	366.14	47.28	473.43	48.04	395.71	47.78	387.01	48.62	738.95
EA1231293 CALD10_1708i	47.39	393.63	47.24	478.53	47.99	422.14	47.73	413.58	48.6	741.56
EA1231293 CALD10_1656i	47.21	469.93	47.2	486.66	47.83	511.65	47.55	501.6	48.57	752.41

Calder Model Undefended Scenario Model Results (Stage - mAOD, Flow - m³/s)

Return Period				
	100		1000	
Node Point	Max Level	Max Flow	Max Level	Max Flow
EA1231293_CALD11_0013u	48.3	478.71	50.11	811.13
EA1231293_CALD10_2301	47.68	481.52	49.24	795.25
EA1231293_CALD10_1809	47.25	372.66	48.58	763.65
EA1231293_CALD11_0013d	48.19	478.88	49.83	811.28
EA1231293_CALD10_2490d	48.04	460.12	49.65	744.16
EA1231293_CALD10_2365d	47.81	481.37	49.35	794.01
EA1231293_CALD10_2121d	47.47	479.67	49.21	783.3
EA1231293_CALD10_1760i	47.21	380.1	48.63	739.79
EA1231293_CALD10_1708i	47.13	407.7	48.61	742.73
EA1231293_CALD10_1656i	46.95	475.22	48.57	751.58

Node Point Additional Map Cooper Bridge Road, Mirfield

RFI: 3151



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APPENDIX B

Personal Flood Plan

Personal flood plan

Name



Are you signed up to receive flood warnings?

If not call Floodline on 0345 988 1188 to see if your area receives free flood warnings.

☐

Let us know when you've completed your flood plan by calling Floodline on **0345 988 1188**. This will help us learn more about how people are preparing for flooding.

General contact list	Company name	Contact name	Telephone
Floodline	Environment Agency		0345 988 1188
Electricity provider			
Gas provider			
Water company			
Telephone provider			
Insurance company and policy number			
Local council			
Local radio station			
Travel/weather info			

Key locations

Service cut-off	Description of location
Electricity	
Gas	
Water	

Who can help/who can you help?

Relationship	Name	Contact details	How can they/you help?
Relative			
Friend or neighbour			

Be prepared for flooding. Act now

Personal flood plan

What can I do NOW?



Put important documents out of flood risk and protect in polythene

☐

Look at the best way of stopping floodwater entering your property

☐

Find out where you can get sandbags

☐

Identify what you would need to take with you if you had to leave your home

☐

Check your insurance covers you for flooding

☐

Make a flood plan and prepare a flood kit

☐

Identify who can help you/ who you can help

☐

Understand the flood warning codes

☐

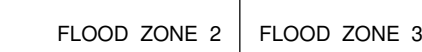
What can you do if a flood is expected in your area?

Actions	Location
Home	
• Move furniture and electrical items to safety	
• Put flood boards, polythene and sandbags in place	
• Make a list now of what you can move away from the risk	
• Turn off electricity, water and gas supplies	
• Roll up carpets and rugs	
• Unless you have time to remove them hang curtains over rods	
• Move sentimental items to safety	
• Put important documents in polythene bags and move to safety	
Garden and outside	
• Move your car out of the flood risk area	
• Move any large or loose items or weigh them down	
Business	
• Move important documents, computers and stock	
• Alert staff and request their help	
• Farmers move animals and livestock to safety	
Evacuation - Prepare a flood kit in advance	
• Inform your family or friends that you may need to leave your home	
• Get your flood kit together and include a torch, warm and waterproof clothing, water, food, medication, toys for children and pets, rubber gloves and wellingtons	

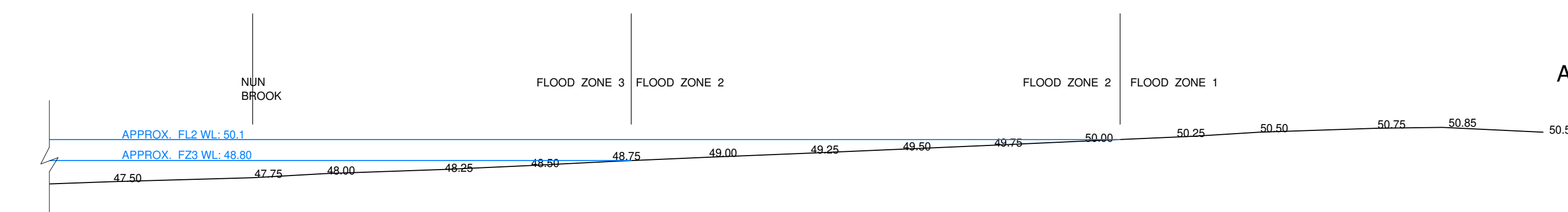
There are a range of flood protection products on the market to help you protect your property from flood damage. A directory of these is available from the **National Flood Forum** at www.bluepages.org.uk

Be prepared for flooding. Act now

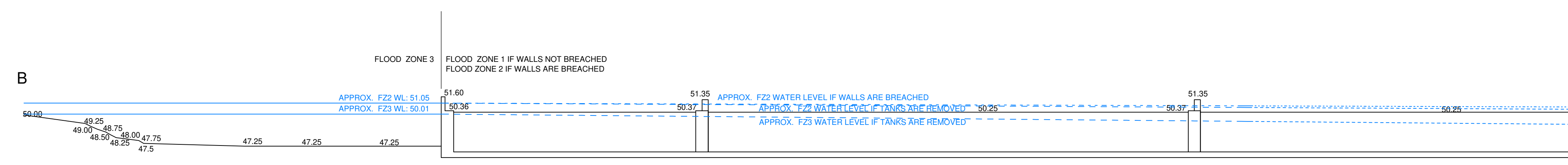
DRAWINGS



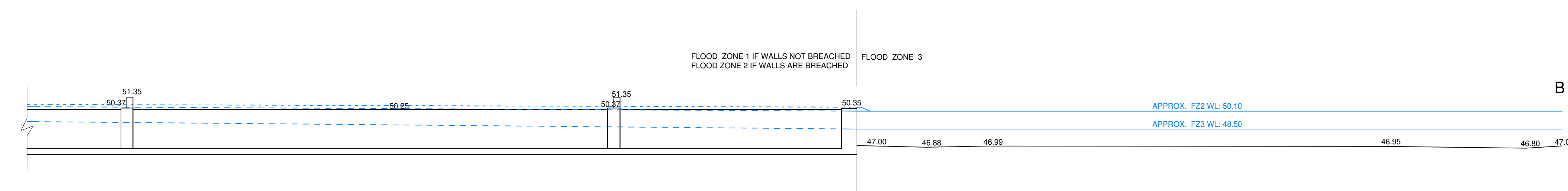
LONG SECTION THROUGH ACCESS ROAD AND TANKS (PERPENDICULAR) NE TO SW



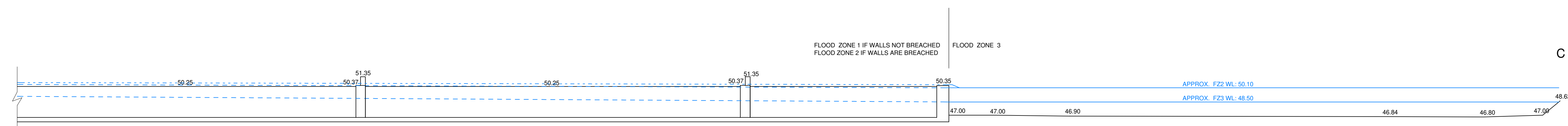
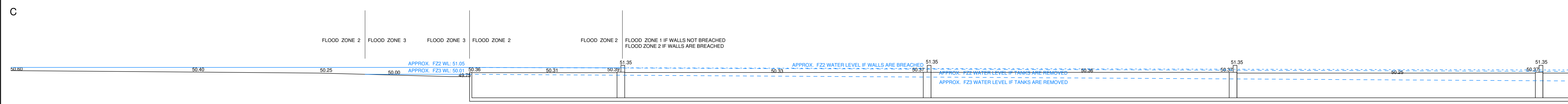
A



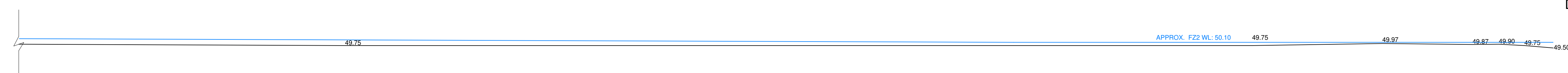
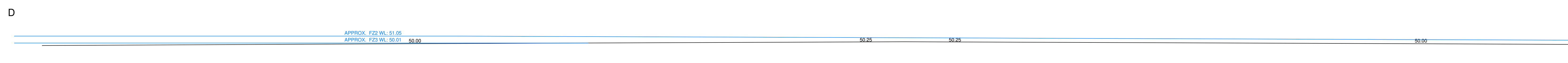
B-B



1

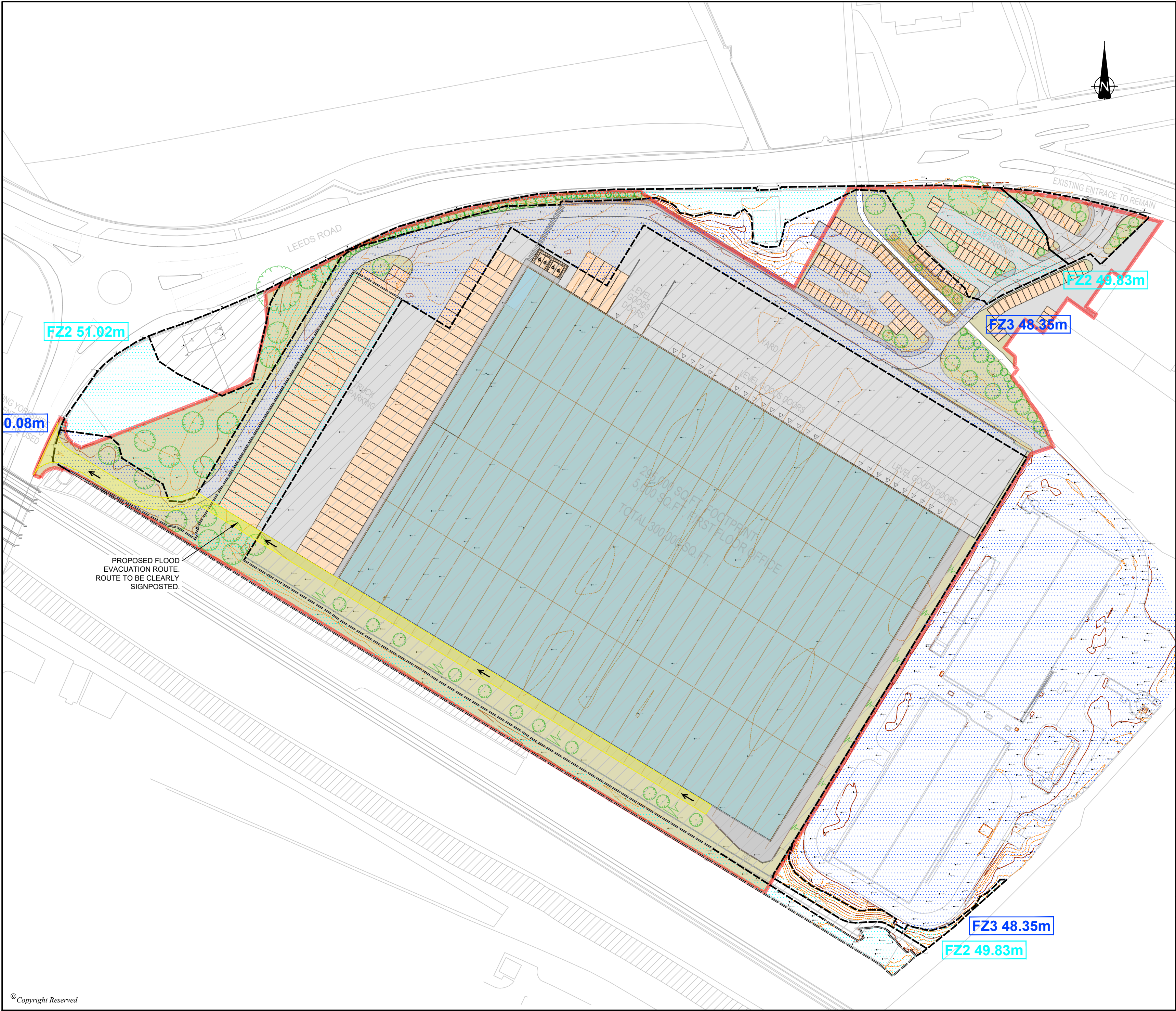


LONG SECTION THROUGH TANKS (PERPENDICULAR) NW TO SE
C-C



LONG SECTION ON SOUTHERN ACCESS ROAD
D-D





DO NOT SCALE FROM THIS DRAWING

REFERENCE

SITE BOUNDARY



FLOOD ZONE 3



FLOOD ZONE 2



FLOOD ZONE 1



FLOOD EVACUATION ROUTE



NOTES

1. MASTERPLAN BASED ON DRAWING 1002 PROVIDED BY KPP ARCHITECTS.
2. FLOOD LEVELS ARE BASED ON PRODUCT DATA PROVIDED BY THE ENVIRONMENT AGENCY.

REVISION	DETAILS	DATE	DRAWN	CHKD	APPD
CLIENT	KILMARTIN PLOWMAN & PARTNERS LIMITED				
PROJECT	COOPER BRIDGE, MIRFIELD				
DRAWING TITLE	FLOOD EVACUATION PLAN				
DRG No.	LD10590-003	REV	P0	SUIT. CODE	
DRG SIZE	A2	SCALE	1:1000	DATE	02/11/23
DRAWN BY	CD	CHECKED BY	AP	APPROVED BY	AP
					

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