

# Arne Parish Council

## Flood Plan

for the South Causeway (B3075) between Wareham and Stoborough.

Issue: 0.0  
Date: 20.03.2024

Signatures:

for Arne Parish Council:	.....	Date: .....
for Wareham Town Council:	.....	Date: .....
for Dorset Highways:	.....	Date: .....
for the Police:	.....	Date: .....

Note: updates to this document's annexes can be made under the authority/signature of just the Arne Parish Council's representative. Updates to the main body of this documents require the signature of all parties to this document. Any change to this document shall be done under a new issue number and date.



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## Abbreviations

APC	Arne Parish Council
APC FW	APC Flood Warden
DC	Dorset Council
DH	Dorset Highways
DH DE	Dorset Highways Duty Engineer
EA	Environment Agency
Resident	Resident with a capital “R” is used in this document to represent a resident from one of the properties at risk of flooding close to where Corfe Road becomes the Causeway, i.e. numbers 1, 2, 4, 6, 8 and 10 Corfe Road.
WTC	Wareham Town Council

## Definitions

### Flood Event:

A significant Flood Event is considered to be occurring when water across the Causeway road has risen to the point where it has reached an imaginary line drawn across the road between the opposing gates that are close to the SLOW markings on the road at the southern end of the Causeway (see images below). Environment Agency survey measurements have shown that when the water reaches this point, then, at its deepest point, it is approximately 10 cm deep and will have spread some 350 meters along the road. This is then considered hazardous to traffic and pedestrians that might try to use the road. Additionally, road closure at this point still allows time for the deployment of traffic and flood barriers before residential flooding in Stoborough would become a possibility.





## 1.0 Introduction

Extended periods of heavy rainfall cause the flood planes associated to the River Frome to flood. Particularly when such periods coincide with Spring tides, this flooding can rise to the point that the road between Wareham and Stoborough (the B3075), the Causeway, can become flooded, creating a hazard for pedestrians, bicycles and vehicles.

As a result the Causeway has to be closed to users. \*

In the case of particularly extended heavy rainfall, the level of this flooding has the potential to flood properties at the southern end of the Causeway as it enters Stoborough.

The front and rear doors of these properties have been modified such that flood boards can, in the event of there being a threat of flooding to these properties, be mounted across the outside of the front and rear doors.

Additionally, a Flood Barrier, to further protect the front of these vulnerable properties, that can be deployed across the Causeway at the Stoborough end, is stored nearby in a container owned by the Arne Parish Council (APC).

There is no record/memory of flood depths or flow rates in and around these properties that would, in themselves, be likely to create a threat to life. The main direct impact of the ingress of flood water would be to personal belongings.

However, there are elderly and vulnerable people living in some of the properties for whom the presence of the water could create other factors that could, in their turn, give rise to life-threatening conditions. An example might be a localised power outage due to the flooding that might cause heating or some other life-maintaining equipment to stop working.

This Flood Plan is intended to defines:

- Lines of responsibility with respect to the making of the necessary decisions in connection with potential or actual flooding events.
- Contact details for those involved in the making of these decisions.
- Procedures for the deployment of the Flood Barrier.

with respect to flooding in the area of the Causeway between Wareham and Stoborough.

It often takes a combination of events to give rise to flooding serious enough to put users of the Causeway or local properties at risk, making it difficult to reliably predict the extent of likely flooding. Bearing in mind that the River Frome is, in the area of Wareham, tidal, these include:

- Preceding rainfall and not just in the Wareham locality, but also along the River Frome upstream of Wareham,
- Forecast of upcoming heavy and extended rainfall, again not just in the Wareham area, but also upstream along the Frome, bearing in mind that the effects of upstream rainfall can take a number of hours or more to impact the Wareham area.
- Tidal status (e.g. closeness to Spring, rather than Neep, tides significantly exacerbates the risks).

\* This is not too big an inconvenience for motorised transport because of the possibility to travel between

*Wareham and Stoborough via the Wareham bypass (the A351).* The Wareham to Stoborough Causeway is not the only place within the Arne Parish for potential flooding to occur. Separate Flood Plans for these other potential flood locations will be prepared as seen necessary. Nevertheless, the general guidance is as follows:

- With regard to flooding on a highway, then DH DE should be contacted and the APC FW informed.
- In the case of property flooding, contact the APC FW so that he can help coordinate assistance.

## 2. Parties, Roles and Responsibilities

In the event of flooding, the primary responsibilities are as follows:

Only Dorset Highways and the Police have the authority to close a road. In the case of flooding on a road, it would normally be Dorset Highways that authorise its closure.

It is the responsibility of the owners of the properties at risk of flooding to protect their properties from flooding. However there are number of agencies and organisations that can provide assistance in situations where such property-flooding is threatened.

The following is intended to outline how these different groups would interact in the case of flooding on the Causeway between Wareham and Stoborough (B3075).

### **Residents of 1, 2 ,4 ,6, 8, 10 Corfe Road**

The properties at the southern end of the Causeway at risk of flooding are no.s 1, 2, 4, 6, 8 and 10.

It is not surprising that, in the light of this risk, the Residents of these properties keep a close eye on the water level across the nearby flood plane and on the Causeway and it is therefore normally one of these Residents that are the first to spot water flooding over the road.

On observing such an event, the Resident is encouraged to phone the DH Duty Engineer and inform him of the situation, potentially seeking a decision from the DH Duty Engineer to authorise the closure of the Causeway. Having done so, the Resident should inform the APC Flood Warden, if possible, by phone, but, if the Warden is not available by phone, then by email, of the situation.

Note, the Flood Barrier cannot be put in place across the southern end of the Causeway until the Causeway has been officially closed and the traffic barriers placed across both the North and South ends of the Causeway.

Circumstances are conceivable whereby the DH Duty Engineer cannot be contacted (for example, he has become overloaded by incidents elsewhere in the County). If this occurs and the Resident observes that the flood water is continuing to rise, and noting that neither the Resident nor the APC Flood Warden have the authority to initiate closure of the Causeway, the Resident should dial 999, asking for the Police, and explain the situation to the Police with the hope that they will authorise closure of the Causeway.

In the case that the Police do authorise closure of the Causeway, and the time is between 08:00 and 16:00 any day of the week (including weekends), the Resident should contact **tbd** from Wareham Town Council to ask for their assistance in the deployment of the Traffic Barriers, traffic warning signs and the Flood Barrier.

The Resident shall inform DH DE and the APC Flood Warden of the Police's decision to close the Causeway.

A further conceivable scenario is where the DC Duty Engineer is contactable by the Resident, is able to authorise the closure of the Causeway, but all his Teams are busy. As a consequence, the Duty Engineer might well give the Causeway closure authorisation, but



suggest that the Residents proceed to deploy the barriers and road signs. In this situation, the Residents should proceed as above for a Police authorisation and seek help from Wareham Town Council provided the time is between 08:00 and 16:00 any day of the week (including weekends).

### **The Arne Parish Council (APC) and the APC Flood Warden**

The Causeway between Wareham and Stoborough and the village of Stoborough, itself, lie within the Parish of Arne. Having a strong sense of responsibility for its parishioners, APC puts a high priority on the monitoring of and ensuring a positive response to flooding events impacting its residents.

In view of the known flood risk in the area of the Causeway, the APC have a nominated Flood Warden who is their first point of contact with regard to flooding matters both for their Parishioners and with regard to the other agencies identified in this section.

In the case that flooding is noted within the Parish that might have impact on road users and/or properties and their residents, the APC Flood Warden should be informed and his advice sought with regard to the response that should be made to that flooding.

APC have procured a Flood Barrier, which is stored in a container along the private lane in front of the property 2 Corfe Road, that can be put across the Causeway in the event of flooding to help protect the properties at the southern end of the Causeway from water ingress. However, this cannot be deployed until the Causeway has been officially declared closed.

### **Dorset Highways (DH)**

Dorset Highways (DH) is a department of Dorset Council (DC). DH have the authority to close a road if users are at risk and it is DH that would normally make the decision to close the Causeway due to it being flooded.

In making the decision to close the Causeway, DH might well consult the Environment Agency (EV) with respect to weather conditions, both current and predicted, but nevertheless, the decision comes from DH.

DH have a Duty Engineer (DE), available 24/7 on a "hotline", who can be contacted by the APC Flood Warden or by concerned Residents to find out about conditions and up-coming decisions from DH or to actually inform DH of conditions in and around the Wareham/Stoborough area.

When the decision is made by DH, for example via the Duty Engineer, to close the causeway, the APC Flood Warden will be informed, if possible, by phone, but if the APC FW is not immediately contactable by phone, he shall be informed by email.

Upon authorising the closure of the Causeway, the Duty Engineer will despatch a Dorset Highways Team to place the traffic barriers at either end of the Causeway and the associated traffic warning signs at the various road junctions in the area.

This Dorset Highways Team will assist the APC Flood Warden and Residents to deploy Flood Barrier.

It is similarly Dorset Highway's responsibility to authorise the reopening of the Causeway. When they consider that the flooding situation has retreated sufficiently that there remains no threat with respect to water on the Causeway, DH will authorise its reopening and send a Dorset Highways Team to remove the traffic barriers and the traffic warning signs. The DH Team will also assist with the recovery of the Flood Barrier.

## Police

The Police also have the authority to close a road. In the case that the DH DE is so busy with other incidents that he is unable to take a call on the "hotline" regarding flooding on the Causeway and therefore cannot authorise its closure, it may be an alternative to contact the Police via calling 999 and requesting them to authorise its closure.

## Wareham Town Council (WTC)

The northern end of the Causeway meets the boundary of the Wareham Town Council (WTC) area. In the case of closure of the Causeway, traffic within and around Wareham would be impacted and the Traffic Barriers to be placed at the northern end of the Causeway would be close to or within the WTC area. WTC need therefore to be informed of the decision to close the Causeway, but would not normally participate in the decision making process.

**TBD** within the WTC will be informed by DH Duty Engineer (or the APC Flood Warden) of the decision to close the Causeway.

In the case that Causeway-closure-authorisation has been given either by the DH Duty Engineer or by the Police, but no DH Team is available to deploy traffic barriers and road signs, WTC has offered to assist the APC Flood Warden and Residents in the deployment of the barriers and road signs provided the time is between 08:00 and 16:00 any day of the week (including weekends). In such a situation, the APC Flood Warden shall contact **tbd**.

## Environment Agency (EA)

The Environment Agency is a Government agency with the objectives of working with businesses and other organisations to manage the use of resources, increase the resilience of people, property and businesses to the risks of flooding and coastal erosion and to protect and improve water, land and biodiversity.

In the context of this Flood Plan, the EA issues Flood Alerts indicating the potential for flooding in the specified area in the upcoming period.

### 3. Declaration of a Flood Event and Associated Actions

#### 3.1 Scenario 1: Dorset Highways Duty Engineer Available on Hotline

Dorset Council Highways are, under nominal circumstances, responsible for making decisions with respect to the response that will be made to a flood threat/situation and then to actually implement that chosen response. Dorset Council Highways have a 24/7 Duty Engineer who can be contacted via a “hotline” and who is the focus for the making of these decisions. Although receiving information from other agencies, the Duty Engineer is often alerted to a new flood situation via a call from the general public on the “hotline”. In the case of the Causeway becoming flooded, and because of their obvious concern with regard to the potential consequences, it is often one of the Residents that first takes note of flood water on the Causeway and informs DH DE of this via the “hotline”.

This case, where the DH DE is in a position to take charge, is referred to hereafter as the Baseline Flood Procedure. For this case, see the following flowchart, Figure 1.

#### 3.2 Scenario 2: Dorset Highways Duty Engineer NOT Available on Hotline

In the case of there being a large number of simultaneous flood threats across the county, it can happen that the Duty Engineer becomes overloaded and is unavailable when attempts are made to contact him on the “hotline”.

In this case, it is recommended to contact the Police by calling 999, seeking their authorisation to close the Causeway. This is referred to hereafter as the Back-Up Flood Procedure. For this case, see the following flowchart, Figure 2.

**NOTE:** This scenario should not be invoked unless the following resources are known to be available:

- enough manpower (taking account of assistance from WTC, if available) to allow the north Causeway end and south Causeway end traffic barriers to be deployed simultaneously,
- high-viz jackets for the workers,
- the availability of transport to take worker(s), the necessary traffic barrier elements plus road signs for positioning by the traffic lights in Wareham, via the Wareham bypass, to the northern end of the causeway,
- and the means of communicating between the north Causeway end and south Causeway end traffic barrier deployment teams so that both barriers can be deployed simultaneously.

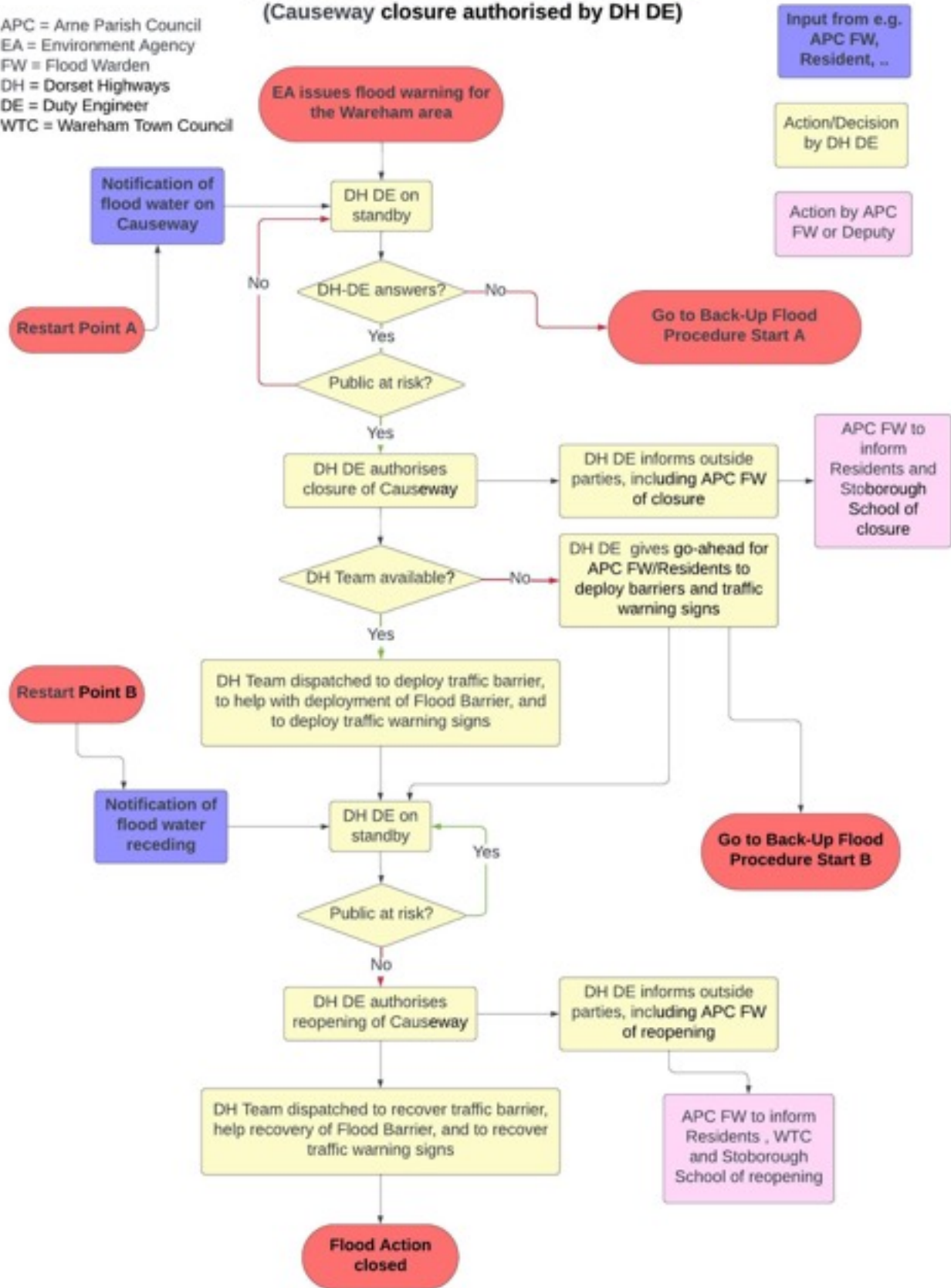
The following gives details concerning the road signs, types and locations, that need to be deployed in connection with the deployment of the traffic barriers at either end of the Causeway as a result of flooding on the Causeway:

- Together with the traffic barrier(s) at the northern end of the Causeway, a road sign with the text “Flooding: Road Closed”.
- Together with the traffic barrier(s) at the southern end of the Causeway, a road sign with the text “Flooding: Road Closed”.
- On the Wareham North roundabout, a road sign with the text “Flooding: No Access to Stoborough”.

- On the traffic lights in the centre of Wareham, a road sign with the text “Flooding: No Access to Stoborough”.
- On the roundabout on the A351 (Wareham bypass) with the road to Wool.
- On the junction between West Lane and Corfe Road close to the Stoborough Primary School, a road sign with the text “Flooding: No Access to Wareham”.
- On the junction between West Lane and the A351 (Wareham bypass), a road sign with the text “Flooding: No Access to Wareham”.
- On the roundabout at the southern end of Corfe Road, a road sign with the text “Flooding: No Access to Wareham”

**Figure 1: Baseline Flood Procedure  
(Causeway closure authorised by DH DE)**

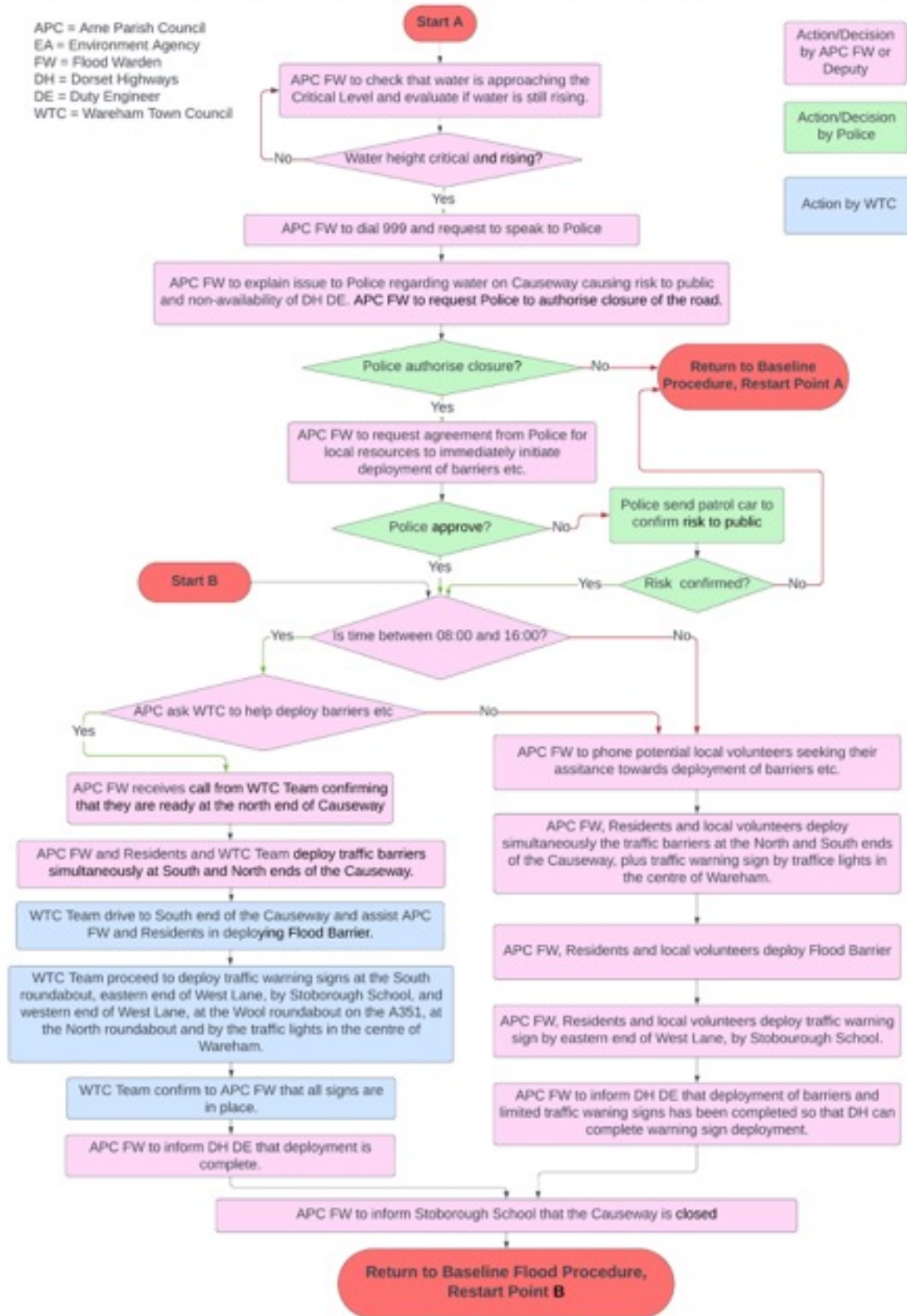
APC = Arne Parish Council  
 EA = Environment Agency  
 FW = Flood Warden  
 DH = Dorset Highways  
 DE = Duty Engineer  
 WTC = Wareham Town Council



**Figure 2: Back-Up Flood Procedure  
(Causeway closure authorised by Police)**

This procedure assumes that:

1. The APC Flood Warden has been notified that there is flood water over the Causeway.
2. Attempts have been made to contact the DH DE to warn him of flood water over the Causeway, but DH DE was not contactable.



## Annex 1: Contact Details

### Local Residents:

2 Corfe Road: 01929 556648  
6 Corfe Road (Debbie): 01929 550203

### APC Flood Wardens:

John Ives                      Landline: 01929 552487 \*  
   Mobile: 07867975119  
   Email: [john.c.ives@btopenworld.com](mailto:john.c.ives@btopenworld.com)

Malcolm Sims:                Mobile: 07899762480  
   Email: [simsm4022@gmail.com](mailto:simsm4022@gmail.com)

Tim Brodie-James:          Mobile: 07718585182  
   Email: [timbrodiejames@gmail.com](mailto:timbrodiejames@gmail.com)

### Dorset Council

Dorset Highways Duty Engineer: 07730700751 \*

Dorset Highways:                      01305 221020

### Wareham Town Council

WTC Flood Assistance Contact: **TBD**

### UK Government Flood Line

Website: <https://check-for-flooding.service.gov.uk/>  
Landline: 0345 988 1188

You can also sign-up for 24/7 flood warnings at <https://www.gov.uk/sign-up-for-flood-warnings>.

### Stoborough School

In the case of the Causeway being closed and also when it is reopened, the number below should be called to inform Stoborough School of the change so that they can pass the information on to parents. If possible, particularly in the case of overnight closure, this information should reach the school by 08:15 in the morning. If the call is not answered, please leave a message.

Stoborough School contact phone number: 01929 552974

\* Preferred contact means.



## **Tidal Information**

Go to the website <https://easytide.admiralty.co.uk/> and type into the search box “Wareham (River Frome)” and tidal information will be shown on the screen for the next seven days.

## **Flood Barrier Manufacturer**

Fluvial Innovations Ltd, Unit 68 Basepoint Business Centre, Aviation Park West,  
Hurn, Dorset, BH23 6NX

Website: <https://www.fluvial-innovations.co.uk/>  
Landline: 01202 031657

## Annex 2: Location and Contents of the APC Flood Container



APC Flood Container entry code = 1941

The following lists the items associated to the deployment of the APC Flood Barrier. They are stored inside the container unless otherwise stated.

As of the 6<sup>th</sup> February 2024:

Signs:

- 3 x “Road Closed” signs (red, rectangular)
- 1 x “Flood” sign (red, triangular)
- 1 x “Danger Flood, Hidden Obstruction” sign (yellow, rectangular)
- 3 x Traffic Cones (one at the side of the container)
- 2 x Traffic Barriers (At the side of the container. Red, with reflectors on one side to face oncoming traffic)
- 2 x Traffic Barriers (Beside entrance to the Kings Arms pub. Red, with reflectors on one side to face oncoming traffic)
- 1 x “Road Closed” sign (Beside entrance to the Kings Arms pub. Red, rectangular)
- 1 x “Flood” sign (Beside entrance to the Kings Arms pub. Red, triangular)

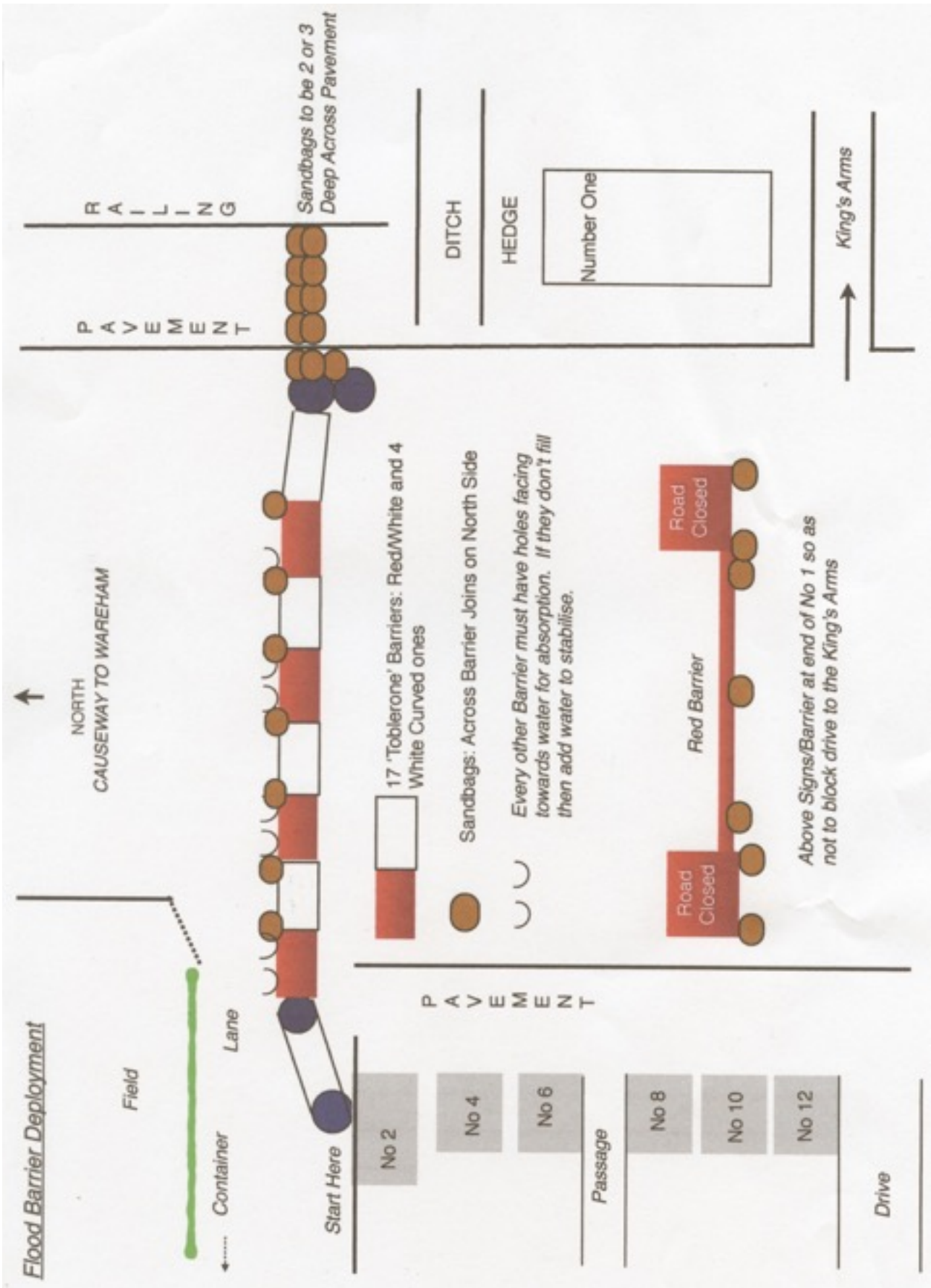
Barrier Components and related items:

- 11 x red “Toblerone” sections
- 9 x white “Toblerone” sections
- 6 x white semi-circular sections
- 12 x black joining elements
- “Hook” to assist removal of the black joining elements
- 40+ sandbags
- Watering can and funnel, for filling barrier sections with water
- 2 x high vis jackets
- Gloves for use when carrying barrier elements

### **Annex 3: Flood Barrier Deployment Procedure**

The diagram on the next page gives details on how the Flood Barrier should be deployed. The page after includes some images of the deployed Flood Barrier. The following should also be taken into account in its deployment:

- Deployment needs to begin at the ‘far’ side of No. 2’s front door, working across to the pavement on the opposite side of the road.
- The Blue Circles have been used to denote the curved white barrier elements, to clarify the schematic.
- Some of the barriers have holes close to their bases which enable them to automatically fill with flood water thereby avoiding the tendency for the barrier to float away.
- The white barrier elements nearest the pavement edge should be ones without holes near their base. They should be filled via the top holes with the watering can and funnel provided in the container.
- Black ‘joiners’ are inserted between the barrier elements with their hooks facing up both to seal the elements together and to hold the whole overall structure together. Their removal is aided with the use of the ‘hooked’ handle stored on the container wall.
- Unused sandbags can be placed on the top of the ‘Toblerone’ elements to help hold the completed barrier from being moved by the rising water.





## Annex 4: Risk Assessment for Volunteers and the Public Associated to the Deployment of Barriers and Road Warning Signs

<b>Task</b>	Setting out barriers and warning signs during periods of severe flooding
<b>Who is at risk?</b>	Volunteers and the public

<b>Hazard</b>	<b>Control Measures</b>	<b>Risk *</b>

