

Stonestreet Green Solar

Environmental Statement Volume 4: Appendices

Chapter 10: Water Environment

Appendix 10.5: Schedule of Watercourse Crossings

PINS Ref: EN010135

Doc Ref. 5.4

Version 1

June 2024

APFP Regulation 5(2)(a)
Planning Act 2008

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

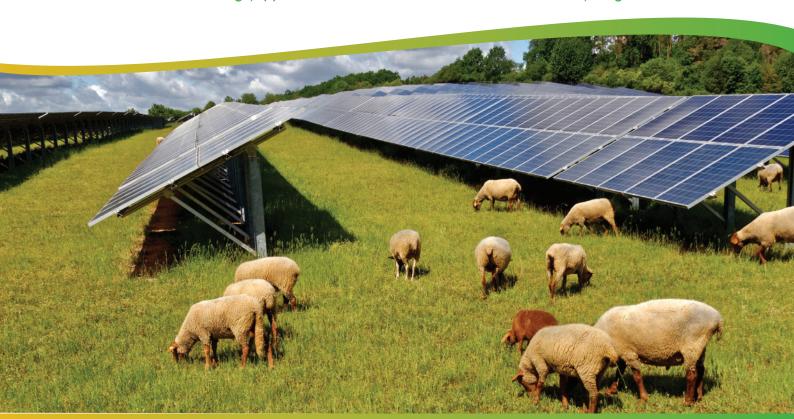


Table of Contents

Bas	is of Report	i
1.0	Introduction	1
2.0	Schedule of Watercourse Crossings	1
3.0	Permitting Requirements	2
4.0	Existing Crossing Structures	3
5.0	Proposed Crossing Structures	4

Annexes

Annex A: Schedule of Existing Watercourse Crossings

Annex B: Schedule of Proposed Watercourse Crossings

Annex C: Location of Watercourse Crossings Plans:

Figure 10.5.1 – Existing Crossings

Figure 10.5.2 – Proposed Crossings



1.0 Introduction

- 1.1 This Schedule of Watercourse Crossings has been prepared on behalf of EPL 001 Limited ('the Applicant') to provide information on the proposed temporary and permanent water crossings within the Order limits beneath or over watercourses in relation to the Development Consent Order ('DCO') application for Stonestreet Green Solar ('the Project'). It also provides information on existing crossings within the Order limits that will be used as a part of the Project.
- 1.2 The Project comprises the construction, operation, maintenance, and decommissioning of solar photovoltaic ('PV') arrays and energy storage, together with associated infrastructure and an underground cable connection to the existing National Grid Sellindge Substation.
- 1.3 The Project will include a generating station (incorporating solar arrays) with a total capacity exceeding 50 megawatts ('MW'). The agreed grid connection for the Project will allow the export and import of up to 99.9 MW of electricity to the grid. The Project will connect to the existing National Grid Sellindge Substation via a new 132 kilovolt ('kV') substation constructed as part of the Project and cable connection under the Network Rail and High Speed 1 ('HS1') railway.
- 1.4 The location of the Project is shown on **ES Volume 3**, **Figure 1.1**: **Site Location Plan (Doc Ref. 5.3)**. The Project will be located within the Order limits (the land shown on the **Works Plans (Doc Ref. 2.3)** within which the Project can be carried out). The Order limits plan is provided as **ES Volume 3**, **Figure 1.2**: **Order Limits (Doc Ref. 5.3)**. Land within the Order limits is known as the 'Site'.

2.0 Schedule of Watercourse Crossings

- 2.1 A schedule of the existing watercourse crossings within the Site that the Project will rely on is provided in **Annex A**.
- 2.2 A schedule of new watercourse crossings (both temporary and permanent) that will be created as part of the Project is provided in **Annex B**.
- 2.3 A summary of existing and proposed crossings is provided in **Section 4.0** and **Section 5.0** of this report, respectively.
- 2.4 Plans showing the location of both the existing and proposed watercourse crossings are provided in **Annex C** (Figure 10.5.1 and 10.5.2).



June 2024

SLR Project No.: 425.064837.00001

- June 2024 SLR Project No.: 425.064837.00001
- 2.5 For reference within the Annexes the following abbreviations are applied to different crossing types:
 - WX Existing Watercourse Crossing
 - TBC Temporary Bridge Crossing
 - PFB Permanent Foot Bridge
 - HDD Horizontal Directional Drilling
 - TCC Trench Cable Crossing
- 2.6 For reference within the two schedules (Annexes A and B) the following watercourse types are referenced:
 - Main River Watercourse (River East Stour) for which the Environment Agency ('EA') is the statutory drainage authority.
 - Internal Drainage Board ('IDB') Managed Ordinary Watercourse Ordinary Watercourses that are actively managed by the River Stour IDB.
 A number of these are present within the Order limits but no crossings of
 these features are required. Crossings are proposed on the channel that
 runs between Fields 23 and 23. This is not shown by IDB mapping¹ to be
 a channel that they formally manage. It is however the continuation of a
 channel that they maintain and therefore is also included under this
 classification to differentiate it from a Riparian Drain.
 - Ordinary Watercourse (Riparian Drain) Ordinary Watercourse within the River Stour IDB area that is not actively managed by the IDB but for which the River Stour IDB is the statutory drainage authority. These are sometimes referred to as Riparian Drains.
- Other minor channels (Ordinary Watercourses) are present within the Order limits but outside of the River Stour IDB area. For these Kent County Council (the Lead Local Flood Authority ('LLFA')) is the statutory drainage authority. No crossings for these features are required.
- 2.8 Photos of proposed and existing watercourse crossing locations are provided within **Annex A** and **Annex B** and the location of these photos is shown in **Annex C**. These photos were taken during surveys of the Site undertaken by SLR in January and February 2024 using the internal camera and lenses within a Galaxy A33 5G phone.

3.0 Permitting Requirements

3.1 The DCO is not seeking to disapply any legislation relating to the water environment. As such all proposed works, on both existing and proposed



watercourse crossings, will be subject to separate approval from the relevant statutory drainage authority. On this basis both the EA and the IDB have confirmed that they do not require any protective provisions.

- 3.2 As detailed in the **Schedule of Other Consents and Licences (Doc Ref. 3.4)**:
 - all works and structures within, over, beneath or within 8m and all
 excavations within 16m of the top of bank of a main river will be subject to
 receipt of a Flood Risk Activity Permit ('FRAP') from the EA; and
 - all work and structures within, over or beneath an Ordinary Watercourse within the IDB area will be subject to Land Drainage Consent from the IDB.
- 3.3 It is also noted that Land Drainage (Ordinary Watercourse) Consent would need to be obtained from KCC, as the LLFA, for any works to ordinary watercourses that do not fall within the IDB area. However, based on the Works Plans (Doc Ref. 2.3), no such works are expected to be required.

4.0 Existing Crossing Structures

4.1 Existing crossing structures to be retained are summarised in Table 4-1. Note that the **Draft Development Consent Order ('DCO') (Doc Ref. 3.1)** includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning.

Table 4-1: Existing Crossing Structures to be retained

ID No.	National Grid Reference	Location	Watercourse Type	Structure Type
WX 1	TR 05968 37886	Between Field 16 and Field 19	Ordinary Watercourse (Riparian Drain)	Agricultural Vehicle Access
WX 2	TR 05994 37837	Between Field 15 and Field 19	Ordinary Watercourse (Riparian Drain)	Agricultural Field Access
WX 3	TR 06119 37773	Between Field 18 and Field 19	Ordinary Watercourse (Riparian Drain)	PRoW Footbridge
WX 4	TR 06493 37838	Between Field 23 and Field 24	IDB Managed Ordinary Watercourse	PRoW Footbridge



ID No.	National Grid Reference	Location	Watercourse Type	Structure Type
WX 5	TR 06617 38124	Between Field 24 and Field 25	Main River	PRoW Footbridge
WX 6	TR 06811 38210	Between Field 26 and Field 28	Main River	Agricultural Vehicle Bridge
WX 7	TR 07204 38173	Between Field 27 and Field 29	Main River	PRoW Footbridge
WX 8	TR 07361 38177	Between Field 27 and Field 29	Main River	PRoW Footbridge

5.0 Proposed Crossing Structures

5.1 Proposed crossing structures to be installed as a result of the Project are summarised below.

Table 5-1: Proposed Temporary Bridge Crossings

ID No.	National Grid Reference	Location	Watercourse Type
TBC 1	TR 06395 37709	Between Field 18 and 19	Ordinary Watercourse (Riparian Drain)
TBC 2	TR 06408 37881	Between Field 23 and Field 24	IDB Managed Ordinary Watercourse
TBC 3	TR 06638 38131	Between Field 24 and Field 25	Main River
TBC 4	TR 06915 38205	Between Field 27 and Field 28	Main River
TBC 5	TR 07557 38201	Between Field 27 and Cable Route Corridor	Main River

Table 5-2: Proposed Permanent Footbridge Crossings

ID No.	National Grid Reference	Location	Watercourse Type
PFB 1	TR 06395 37709	Between Field 18 and 19	Ordinary Watercourse (Riparian Drain)



June 2024

SLR Project No.: 425.064837.00001

III) NO	National Grid Reference	Location	Watercourse Type
PFB 2	TR 06408 37881	Between Field 23 and Field 24	IDB Managed Ordinary Watercourse

Table 5-3: Proposed HDD Crossings

ID No.	National Grid Reference	Location	Watercourse Type
HDD1	TR 06408 37881	Between Field 23 and Field 24	IDB Managed Ordinary Watercourse
HDD2	TR 06543 37860	Between Field 23 and 24	IDB Managed Ordinary Watercourse
HDD3	TR 06638 38131	Between Field 24 and Field 25	Main River
HDD4	TR 07557 38201	Between Field 27 and Cable Route Corridor	Main River
HDD5	TR 08466 38060	Cable Route Crossing (between Cable Route Corridor and Sellindge Substation)	Main River

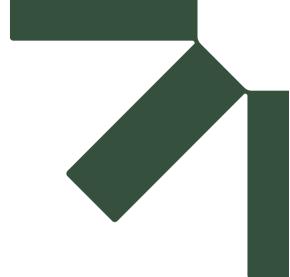
Table 5-4: Proposed Trench Cable Crossings

ID No.	National Grid Reference	Location	Watercourse Type
TCC 1	TR 05872 37965	Between Field 16 and Field 19	Ordinary Watercourse (Riparian Drain)
TCC 2 (located in proximity to WX2)	TR 05984 37851	Between Field 15 and Field 19	Ordinary Watercourse (Riparian Drain)
TCC 3	TR 06229 37770	Between Field 18 and Field 19	Ordinary Watercourse (Riparian Drain)



June 2024

SLR Project No.: 425.064837.00001



Annex A: Existing Watercourse Crossings

Appendix 10.5: Schedule of Watercourse Crossings



Unique Refere	ence ID: WX 1			
Watercourse Crossing	National Grid Reference:	TR 05968 37886	Watercourse Name:	Watercourse A
Details	Location	Between Field 16 and Field 19		
	Culvert Diameter:	Culvert details and flow are unknown due to vegetation growth	Watercourse Type	Ordinary Watercourse (Riparian Drain)
	Culvert Construction:		Watercourse Width:	~4.5m
	Observed flow depth:		Watercourse Depth:	~1.5m
	Pre-Development Culvert Use:	Agricultural Vehicle Access	Post-Development Culvert Use:	Operational Vehicle Access
	The 5m wide crossing has a t	urf overgrown on top of it. It is u	sed by tractors/heavy vehicles a	s well as pedestrians. The







Unique Refere	Unique Reference ID: WX 1			
Summary of proposed works	From a visual survey the culvert currently appears to be structurally sound and is regularly used for agricultural vehicles. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the development particularly given possible occasional requirements for access by slightly larger vehicles. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This culvert could be potentially used by both construction, operational and decommissioning traffic.			
Permitting	Any future works to crossing would be subject to Land Drainage Consent from the River Stour IDB.			



Unique Refer	rence ID: WX 2			
Watercourse	National Grid Reference:	TR 05994 37837	Watercourse Name:	Watercourse A
Crossing Details	Location	Between Field 15 and Field 19		
	Culvert Diameter:	Culvert details and flow are unknown due to vegetation growth	Watercourse Type	Ordinary Watercourse (Riparian Drain)
	Culvert Construction:		Watercourse Width:	~2.5m
	Observed flow depth:		Watercourse Depth:	~1.0m
	Pre-Development Culvert Use:	Agricultural Field Access	Post-Development Culvert Use:	Operational Access
	The 2.5m wide crossing has o	vergrown turf on ton of it. It is rel	atively parrow and appears to so	ylely be a pedestrian crossing

The 2.5m wide crossing has overgrown turf on top of it. It is relatively narrow and appears to solely be a pedestrian crossing. The watercourse was obscured by the thick brush.

Photograph Looking Upstream







Unique Refer	Unique Reference ID: WX 2			
Summary of proposed works	From a visual survey the culvert currently appears to be structurally sound. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the development. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This culvert could be potentially used by both construction and operational foot traffic.			
Permitting	Any future works to crossing would be subject to Land Drainage Consent from the River Stour IDB.			



Unique Reference ID: WX 3					
Watercourse	National Grid Reference:	TR 06119 37773	Watercourse Name:	Watercourse A	
Crossing Details	Location	Between Field 18 and Field 19			
	Culvert Diameter:	No Culvert	Watercourse Type	Ordinary Watercourse (Riparian Drain)	
	Footbridge Construction:	Free span crossing	Watercourse Width:	~3.0m	
	Observed flow depth:	~0.2m	Watercourse Depth:	~2.0m	
	Pre-Development PRoW Footbridge:	AE378	Post-Development PRoW Footbridge:	AE378 diverted and this footbridge would be removed from the PRoW network.	

The crossing is a wooden sleeper with a metal wire mesh attached. It is set on concrete, with a metal pipe guard rails on one side. It is narrow and likely solely a pedestrian crossing for the existing PRoW.

Photograph Looking Upstream







Unique Refe	Unique Reference ID: WX 3		
Summary of Proposed Works	While no longer required as a PRoW this crossing will still be required for operational access within the Site. From a visual survey the footbridge currently appears to be structurally sound. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the Project. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This footbridge could be potentially used by both construction and operational foot traffic.		
Permitting	Any future works to crossing would be subject to Land Drainage Consent from the River Stour IDB.		



Unique Reference ID: WX 4					
Watercourse	National Grid Reference:	TR 06493 37838	Watercourse Name:	Unnamed Tributary 3 (Aldington Dyke	
Crossing Details	Location	Between Field 23 and	Between Field 23 and Field 24		
	Culvert Diameter:	No Culvert	Watercourse Type	e IDB Managed Ordina Watercourse	ary
	Footbridge Construction:	Free span crossing	Watercourse Widt	ith: ~4.0m	
	Observed flow depth:	~0.5m	Watercourse Dept	oth: ~2.0m	
	Pre-Development PRoW Footbridge:	AE431/AE436/AE657	Post-Developmen Footbridge:	nt PRoW AE657	
	The crossing is made of woode	en boards and planks, with	metal rods underneath the	e structure and wooden guard rails on l	both







Unique Refe	Jnique Reference ID: WX 4		
Summary of Proposed Works	During the operational phase of the Project, the footbridge would continue to serve as a PRoW footbridge for the AE657. From a visual survey the footbridge currently appears to be structurally sound. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the Project. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This footbridge could be potentially used by both construction and operational foot traffic.		
Permitting	Any future works to crossing would be subject to Land Drainage Consent from the River Stour IDB.		



Unique Refe	erence ID: WX 5			
Watercours	National Grid Reference:	TR 06617 38124	Watercourse Name:	East Stour River
Details	Location	Between Field 24 and Field 25		
	Culvert Diameter:	No Culvert	Watercourse Type	Main River
	Footbridge Construction:	Free span crossing	Watercourse Width:	~5.5m
	Observed flow depth:	~0.6m	Watercourse Depth:	~2.0m
	Pre-Development PRoW Footbridge:	AE431	Post-Development PRoW Footbridge:	AE431
	The crossing is made of wooden	boards and planks appead	apart with motal rode underposts the struc	cture and groop motal

The crossing is made of wooden boards and planks spaced apart, with metal rods underneath the structure and green metal guard rails on both sides. It is narrow and solely a pedestrian crossing for the existing PRoW.

Photograph Looking Upstream







Unique Refe	Jnique Reference ID: WX 5	
Proposed Works	During the operational phase of the Project, the footbridge would continue to serve as a PRoW footbridge. From a visual survey the footbridge currently appears to be structurally sound. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the development. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This footbridge could be potentially used by both construction and operational foot traffic.	
Permitting	Any future works to crossing would be subject to FRAP from the EA.	



Unique Reference ID: WX 6				
Crossing Details	National Grid Reference:	TR 06811 38210	Watercourse Name:	East Stour River
	Location	Between Field 26 and Field 28		
	Culvert Diameter:	No Culvert	Watercourse Type	Main River
	Vehicle Bridge Construction:	Free span crossing	Watercourse Width:	~8.0m
	Observed flow depth:	~0.7m	Watercourse Depth:	~2.0m
	Pre-Development Vehicle Bridge:	Agricultural Vehicle Access	Post-Development Vehicle Bridge / PRoW Footbridge:	New 2 / Operational Vehicle Access
	The crossing is made of wooden	sleepers, with metal girders b	olted underneath the structure and	no guard rails. There is a







Unique Refe	Unique Reference ID: WX 6		
Summary of Proposed Works	During the operational phase of the Project, this bridge is proposed to serve as a footbridge crossing for the 'New 2' PRoW that connects to the 'New 3' PRoW on the northern side of the East Store River. In addition, this crossing is the only existing vehicle access into the landowner's agricultural fields south of the East Store River. The landowner requires access to these fields once the Project is decommissioned and thus the bridge must be available for vehicle access once the Project is decommissioned.		
	From a visual survey the bridge currently appears to be structurally sound and is regularly used for agricultural vehicles. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the development particularly given possible occasional requirements for access by slightly larger vehicles. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This footbridge could be potentially used by both construction foot traffic and operational foot and vehicle traffic.		
Permitting	Any future works to crossing would be subject to FRAP from the EA.		



Unique Reference ID: WX 7				
National Grid Reference:	TR 07204 38173	Watercourse Name:	East Stour River	
Location	Between Field 27 and Fi	eld 29		
Culvert Diameter:	No Culvert	Watercourse Type	Main River	
Footbridge Construction:	Free span crossing	Watercourse Width:	~7.5m	
Observed flow depth:	~0.7m	Watercourse Depth:	~1.5m	
Pre-Development PRoW Footbridge:	AE657/AE457	Post-Development PRoW Footbridge:	AE657/AE457	
	National Grid Reference: Location Culvert Diameter: Footbridge Construction: Observed flow depth: Pre-Development PRoW	National Grid Reference: TR 07204 38173 Location Between Field 27 and Fi Culvert Diameter: No Culvert Free span crossing Observed flow depth: Pre-Development PRoW AE657/AE457	National Grid Reference:TR 07204 38173Watercourse Name:LocationBetween Field 27 and Field 29Culvert Diameter:No CulvertWatercourse TypeFootbridge Construction:Free span crossingWatercourse Width:Observed flow depth:~0.7mWatercourse Depth:Pre-Development PRoWAE657/AE457Post-Development PRoW	

The crossing and railings are made of wooden boards and planks, with metal support rods throughout the structure and staircases on either side. It is narrow and solely a pedestrian crossing for the existing PRoW.

Photograph Looking Upstream







Unique Refe	Jnique Reference ID: WX 7	
Summary of Proposed Works	During the operational phase of the Project, the footbridge would continue to serve as a PRoW footbridge. From a visual survey the footbridge currently appears to be structurally sound. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the development. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This footbridge could be potentially used by both construction and operational foot traffic.	
Permitting	Any future works to crossing would be subject to FRAP from the EA.	



pedestrian crossing.

ence id. WX o	_		
National Grid Reference:	TR 07361 38177	Watercourse Name:	East Stour River
Location	Between Field 27 and I	Field 29	
Culvert Diameter:	No Culvert	Watercourse Type	Main River
Footbridge Construction:	Free span crossing	Watercourse Width:	~6.5m
Observed flow depth:	~0.6m	Watercourse Depth:	~2.0m
Pre-Development PRoW Footbridge:	None	Post-Development PRoW Footbridge:	None
	Location Culvert Diameter: Footbridge Construction: Observed flow depth: Pre-Development PRoW	National Grid Reference: TR 07361 38177 Location Between Field 27 and F Culvert Diameter: No Culvert Footbridge Construction: Free span crossing Observed flow depth: Pre-Development PRoW None	National Grid Reference:TR 07361 38177Watercourse Name:LocationBetween Field 27 and Field 29Culvert Diameter:No CulvertWatercourse TypeFootbridge Construction:Free span crossingWatercourse Width:Observed flow depth:~0.6mWatercourse Depth:Pre-Development PRoWNonePost-Development PRoW

Photograph Looking Upstream



Photograph Looking Downstream

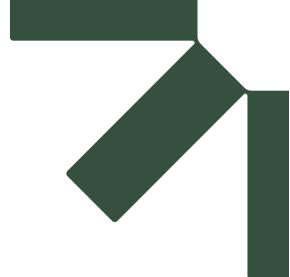


Summary of Proposed Works During the operational phase of the Project, the footbridge would continue to serve as a footbridge for users of the PRoW network.



Unique Refe	Unique Reference ID: WX 8		
	From a visual survey the footbridge currently appears to be structurally sound. Given limitation on access and testing it is however not possible to confirm that the structural condition will remain fit for purpose through the lifetime of the development. The Draft DCO (Doc Ref. 3.1) includes a power in Work No. 8 to alter, maintain, repair or replace existing crossing structures over non-navigable rivers and other watercourses and agricultural drains during construction, operation and decommissioning. This footbridge could be potentially used by both construction and operational foot traffic.		
Permitting	Any future works to crossing would be subject to FRAP from the EA.		





Annex B: Proposed Watercourse Crossings

Appendix 10.5: Schedule of Watercourse Crossings



Unique Refer	ence ID: TBC 1 / PFB 1					
Details of Cross Location	Approximate National Grid Reference:	TR 06395 37709 The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.				
	Location	Between Field 18 an	d Field 19	Watercourse Name:	Watercourse A	
	Watercourse Width:	~2.0m	~2.0m Watercou		Ordinary Watercourse (Riparian Drain)	
	Watercourse Depth:	~1.5m		Observed flow depth:	~0.2m (still – no flow)	
	Pre-Development Use:	None		Post-Development Use:	AE378 Footbridge & Temporary Bridge Crossing	
	This is the head of a channel the heavily vegetated and bounded		ane with no	significant upstream length of c	atchment. The channel is	
Photograph Looking Upstream	No upstream – channel starts a	it Callywell Lane	Photograp Looking Downstrea	am .	7 Feb 2024 11 32 47 2172939N 0.9469133242964745E Calleywell Lane Aldington Kent England	
Anticipated Works				modular steel bridge with abutme The temporary bridge crossing		



Unique Refere	ence ID: TBC 1 / PFB 1
	the construction and decommissioning phases. However, at limited times during the operational phase, temporary bridges may be required to be reinstalled to provide access for maintenance, repair and replacement activities.
	Permanent PRoW Footbridge Crossing – a PRoW Footbridge crossing to be formed of wooden boards and planks (subject to detailed design and agreement with KCC). The new PRoW Footbridge will be a pedestrian crossing for the diverted AE378 PRoW.
Permit Requirements	Land Drainage Consent from the River Stour IDB will be required for both the temporary bridge crossing and the permanent footbridge.



Details of	Approximate National Grid	TR 06408 37881				
Cross Location	Reference:	The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.				
	Location	Between Field 23 and Field 24	Watercourse Name:	Watercourse B		
	Watercourse Width:	~5.0m	Watercourse Type	IDB Managed Ordinary Watercourse		
	Watercourse Depth:	~2.0m	Observed flow depth:	~0.5m		
	Pre-Development Use:	None	Post-Development Use:	AE431 Footbridge; Temporary Bridge Crossing & Cable crossing		
	At this location, the channel has shallow naturally profiled banks. The channel separates a field with a fenced and heavy vegetation to one side.					
Dhotograph	1000 1000 1000 1000 1000 1000 1000 100	Dhotog	ronh			







Unique Refer	ence ID: HDD1 / TBC 2 / PFB 2
Anticipated Works	Temporary Bridge Crossing – to be formed as a pre-engineered modular steel bridge with abutments set 1m back from the top of the bank with the soffit level set 600mm above the bank height. The temporary bridge crossings will be used mainly during the construction and decommissioning phases. However, at limited times during the operation phase, temporary bridges may be required to be reinstalled to provide access for maintenance, repair and replacement activities.
	Cable Crossing - HDD will be used to install the high voltage cables beneath the watercourse. The cable crossing will be set below bed level at a suitable depth as agreed with the IDB as required.
	Permanent PRoW Footbridge Crossing – a PRoW Footbridge crossing to be formed of wooden boards and planks (subject to detailed design and agreement with KCC). The new PRoW Footbridge will be a pedestrian crossing for the diverted AE431 PRoW.
Permit Requirements	Land Drainage Consent from the River Stour IDB will be required for the temporary bridge crossing, the permenant footbridge and the HDD.



Watercourse Depth: ~2.0m Observed flow depth: ~0.6m Pre-Development Use: None Post-Development Use: Cable crossing At this location both banks are heavily vegetated with but with exposed mud banks separating a field and a fenced off field of the other side of the bank. There is a wooden telephone pylon on one side. Photograph Looking Upstream Photograph Looking Downstream Downstream Photograph Looking Downstream Photograph Looking Downstream Downstream Photograph Looking Downstream Downstream Addington 11 10276721433138N 0 94882238565828 60dwell Lane Aldington Aldington	Details of	Approximate National Grid	TR 06543 37860				
Watercourse Width: ~4.0m Watercourse Type IDB Managed Ordinary Watercourse Watercourse Depth: ~2.0m Observed flow depth: ~0.6m Pre-Development Use: None Post-Development Use: Cable crossing At this location both banks are heavily vegetated with but with exposed mud banks separating a field and a fenced off field of the other side of the bank. There is a wooden telephone pylon on one side. Photograph Looking Upstream Photograph Looking Downstream Downstream 25 Jan 2024 13:16.37 Foldwell Lane Aldington Aldington Aldington Aldington		Reference:					
Watercourse Depth: ~2.0m Observed flow depth: ~0.6m Pre-Development Use: None Post-Development Use: Cable crossing At this location both banks are heavily vegetated with but with exposed mud banks separating a field and a fenced off field of the other side of the bank. There is a wooden telephone pylon on one side. Photograph Looking Upstream Photograph Looking Downstream Downstream Photograph Looking Downstream Downstream Photograph Looking Downstream Adington 1 10278721433138N 0 948822385652836 6 25 Jan 2024 13:16.67 Fit 10278721433138N 0 94882238565284 Fit 10278721433138N 0 94882238565284 Fit 10278721433138N 0 94882238565284 Fit 10278721433138N 0 94882238565284 Fit 10278721433138N 0 9488238565284 Fit 10278721433138N 0 9488238565284 Fit 10278721433138N 0 9488238565284 Fit 10278721433138N 0 9488238656284 Fit 10278721433138N 0 9488238656284		Location	Between Field 23 and F	ield 24	Watercourse Name:	Watercourse B	
Pre-Development Use: None Post-Development Use: Cable crossing At this location both banks are heavily vegetated with but with exposed mud banks separating a field and a fenced off field of the other side of the bank. There is a wooden telephone pylon on one side. Photograph Looking Upstream Photograph Looking Downstream Downstream 25 Jan 2024 13:16:37 Foldwell Lane Aldington Kent		Watercourse Width:	~4.0m		Watercourse Type	IDB Managed Ordinary Watercourse	
At this location both banks are heavily vegetated with but with exposed mud banks separating a field and a fenced off field of the other side of the bank. There is a wooden telephone pylon on one side. Photograph Looking Upstream Photograph Looking Downstream Downstream 25 Jan 2024 1316:37 51 102757710032165N 0 9487391104072332F Goldwell Land Aldington Kent		Watercourse Depth:	~2.0m		Observed flow depth:	~0.6m	
the other side of the bank. There is a wooden telephone pylon on one side. Photograph Looking Upstream Photograph Looking Downstream Downstream Photograph Looking Downstream Fig. 102757710032165N 0 9487891104072332E Goldwell Lane Aldington Kent		Pre-Development Use:	None		Post-Development Use:	Cable crossing	
Looking Upstream Looking Downstream Looking Downstream 51.102757710032165N 0 9487391104072332F Goldwell Lane Aldington Kent Aldington Kent						field and a fenced off field o	
Engla	Looking	51.1027577100	Goldwell Lane	Looking	eam	25 Jan 2024 13:16: 8721433133N 0.948822386562824 Goldwell La Aldingt Ke Engla	



Unique Refere	ence ID: HDD2
	Land Drainage Consent from the River Stour IDB.
Requirements	



Details of	Approximate National Grid	TR 06638 38131			
Cross Location	Reference:	The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.			
	Location	Between Field 24 and	Field 25	Watercourse Name:	East Stour River
	Watercourse Width:	~6.0m		Watercourse Type	Main River
	Watercourse Depth:	~2.5m		Observed flow depth:	~1.5m
	Pre-Development Use:	None (WX5 nearby)		Post-Development Use:	Temporary Bridge Crossing & Cable crossing (WX5 nearby)
	At this location, the channel has shallow naturally profiled banks with the adjacent land observed to be marshy and heavily vegetated.				
Photograph Looking Upstream			Photograph Looking Downstrean		







Unique Refer	Jnique Reference ID: HDD3 / TBC 3			
Anticipated Works	Temporary Bridge Crossing – to be formed as a pre-engineered modular steel bridge with abutments set 1m back from the top of the bank with the soffit level set 600mm above the bank height. The temporary bridge crossings will be used mainly during the construction and decommissioning phases. However, at limited times during the operation phase temporary bridges may be required to be reinstalled to provide access for maintenance, repair and replacement activities.			
	Cable Crossing - HDD will be used to install the high voltage cables beneath the watercourse. The cable crossing will be set below bed level at a suitable depth as agreed with the EA as required.			
Permit Requirements	A FRAP from the EA will be required for the temporary bridge crossing. For the cable crossing the HDD may be exempt from permitting under EA exempt activity 3 ² . If following full design, the proposals do not meet the criteria for exemption a FRAP will be required.			



Details of Cross Location	Approximate National Grid	TR 06915 38205				
	Reference:		The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.			
	Location	Between Field 27 and Field 28		Watercourse Name:	East Stour River	
	Watercourse Width:	~8.0m		Watercourse Type	Main River	
	Watercourse Depth:	~2.0m		Observed flow depth:	~1.5m	
	Pre-Development PRoW:	None		Post-Development PRoW:	Temporary Bridge Crossing	
	At this location, the channel has shallow and naturally profiled banks. The adjacent land is arable farmland.					
Photograph Looking Upstream			Photograph Looking Downstrea			

Anticipated Works

Temporary Bridge Crossing – to be formed as a pre-engineered modular steel bridge with abutments set 1m back from the top of the bank with the soffit level set 600mm above the bank height. The temporary bridge crossings will be used mainly during the construction and decommissioning phases. However, at limited times during the operation phase temporary bridges may be required to be reinstalled to provide access for maintenance, repair and replacement activities.



Unique Refere	ence ID: TBC 4
Permit	FRAP from the EA.
Requirements	



Details of Cross Location	Approximate National Grid	TR 07557 38201				
	Reference:	The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.				
	Location	Between Field 27 and Cable Route Corridor	Watercourse Name:	East Stour River		
	Watercourse Width:	~7.0m	Watercourse Type	Main River		
	Watercourse Depth:	~2.5m	Observed flow depth:	~1.0m		
	Pre-Development Use:	None	Post-Development Use:	Temporary Bridge Crossing & Cable crossing		







Unique Refere	Unique Reference ID: HDD 4 / TBC 5				
Anticipated Works	Temporary Bridge Crossing – to be formed as a pre-engineered modular steel bridge with abutments set 1m back from the top of the bank with the soffit level set 600mm above the bank height. The temporary bridge crossings will be used mainly during the construction and decommissioning phases. However, at limited times during the operation phase temporary bridges may be required to be reinstalled to provide access for maintenance, repair and replacement activities. Cable Crossing - HDD will be used to install the high voltage cables beneath the watercourse. The cable crossing will be set below bed level at a suitable depth as agreed with the EA as required.				
Permit Requirements	A FRAP from the EA will be required for the temporary bridge crossing. For the cable crossing the HDD may be exempt from permitting under EA exempt activity 3 ² . If following full design the proposals do not meet the criteria for exemption a FRAP will be required.				



erence ID: HDD5				
Approximate National Grid Reference:	TR 08466 38060 The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance and physical constraint to north of railway line.			
Location	Cable Route Crossing (between Cable Route Corridor and Sellindge Substation)	Watercourse Name:	East Stour River	
Watercourse Width:	~5.5m	Watercourse Type	Main River	
Watercourse Depth:	~2.0m	Observed flow depth:	~1.0m	
Pre-Development Use:	None	Post-Development PRoW:	Cable crossing	
One bank is gently sloped with the adjacent land observed to be marshy. The other bank is a steeper leading up to land vegetated with trees.				
	Approximate National Grid Reference: Location Watercourse Width: Watercourse Depth: Pre-Development Use: One bank is gently sloped with	Approximate National Grid Reference: TR 08466 38060 The precise location will be microvegetation to minimise disturbant (between Cable Route Corridor and Sellindge Substation) Watercourse Width: Watercourse Depth: Pre-Development Use: One bank is gently sloped with the adjacent land observed to	Approximate National Grid Reference: TR 08466 38060 The precise location will be micro sited taking into consideration lo vegetation to minimise disturbance and physical constraint to north Location Cable Route Crossing (between Cable Route Corridor and Sellindge Substation) Watercourse Width: ~5.5m Watercourse Type Watercourse Depth: ~2.0m Observed flow depth: Pre-Development Use: None Post-Development PRoW: One bank is gently sloped with the adjacent land observed to be marshy. The other bank is a	

Photograph Looking Upstream



Photograph Looking Downstream





Unique Refere	Unique Reference ID: HDD5		
	Cable Crossing - HDD will be used to install the high voltage cables beneath the watercourse. The cable crossing will be set below bed level at a suitable depth as agreed with the EA as required.		
	For the cable crossing the HDD may be exempt from permitting under EA exempt activity 3 ² . If following full design the proposals do not meet the criteria for exemption a FRAP will be required.		



Unique Refe	rence ID: TCC 1				
Details of Cross Location	Approximate National Grid Reference:	TR 05872 37965 The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.			
	Location	Between Field 16 and Field 19	Watercourse Name:	Watercourse A	
	Watercourse Width:	~3.5m	Watercourse Type	Ordinary Watercourse (Riparian Drain)	
	Watercourse Depth:	~1.3m	Observed flow depth:	~0.2m	
	The channel runs through open fields and was observed to be uniform and broadly trapezoidal in profile. Light vegetation growth on bank and in channel.				
Photograph Looking Upstream	51.103956406	Photograp Looking Downstres 7 Feb 2024 11:53:10 900473N 0.9395762253552675E Smeeth Kent England	am Van de la company de la com	7 Feb 2024 11:53:12 95640600473N 0 9395762253552675 Smeeti Ken England	
Anticipated Works	Cable Crossing - Standard trenching techniques to be used to cross the agricultural drain.				



Unique Refere	Unique Reference ID: TCC 1		
Permit Requirements	Land Drainage Consent from the River Stour IDB.		



Details of Cross Location	Approximate National Grid	TR 05984 37851 The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.					
	Reference:						
	Location	Between Field 15 and Field 19	Watercourse Name:	Watercourse A			
	Watercourse Width:	~2.5m	Watercourse Type	Ordinary Watercourse (Riparian Drain)			
	Watercourse Depth:	~1.5m	Observed flow depth:	Flow unknown due to vegetation growth			
	The channel runs through open to Banks are steep.	The channel runs through open fields but was heavily vegetated and it was not possible to observe the channel base / water. Banks are steep.					
Photograph Looking Upstream	51. 102.894021 168	Photogra Looking Downstro		AFeb 2024 14 W 5 8377 417039 V 0 94089 77 679 722 309 Aldingto Ken			
Anticipated Works	Cable Crossing - Standard trenching techniques to be used to cross the agricultural drain.						



Unique Refere	Unique Reference ID: TCC 2 (located in proximity to WX2)		
Permit Requirements	Land Drainage Consent from the River Stour IDB.		

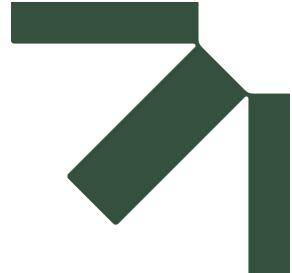


Details of Cross Location	Approximate National Grid Reference:	TR 06229 37770 The precise location will be micro sited taking into consideration local morphology and vegetation to minimise disturbance.				
	Location	Between Field 18 and Field 19		Watercourse Name:	Watercourse A	
	Watercourse Width:	~ 4.5m		Watercourse Type	Ordinary Watercourse (Riparian Drain)	
	Watercourse Depth:	~ 1.5m		Observed flow depth:	~0.3m	
		The channel runs through open fields and was observed to be uniform and broadly trapezoidal in profile with fairly shallow sloped banks. Light vegetation growth on bank and in channel.				
Photograph Looking Upstream	51.10213003121	Loo	otograpl oking wnstrea		7 Feb 2024 11 39 1 12944447994N 0 9443484619259834 Calleywell Lan Aldingto Ker Englan	
Anticipated Works	Cable Crossing - Standard trenching techniques to be used to cross the agricultural drain.					



Unique Refere	Unique Reference ID: TCC 3		
Permit Requirements	Land Drainage Consent from the River Stour IDB.		

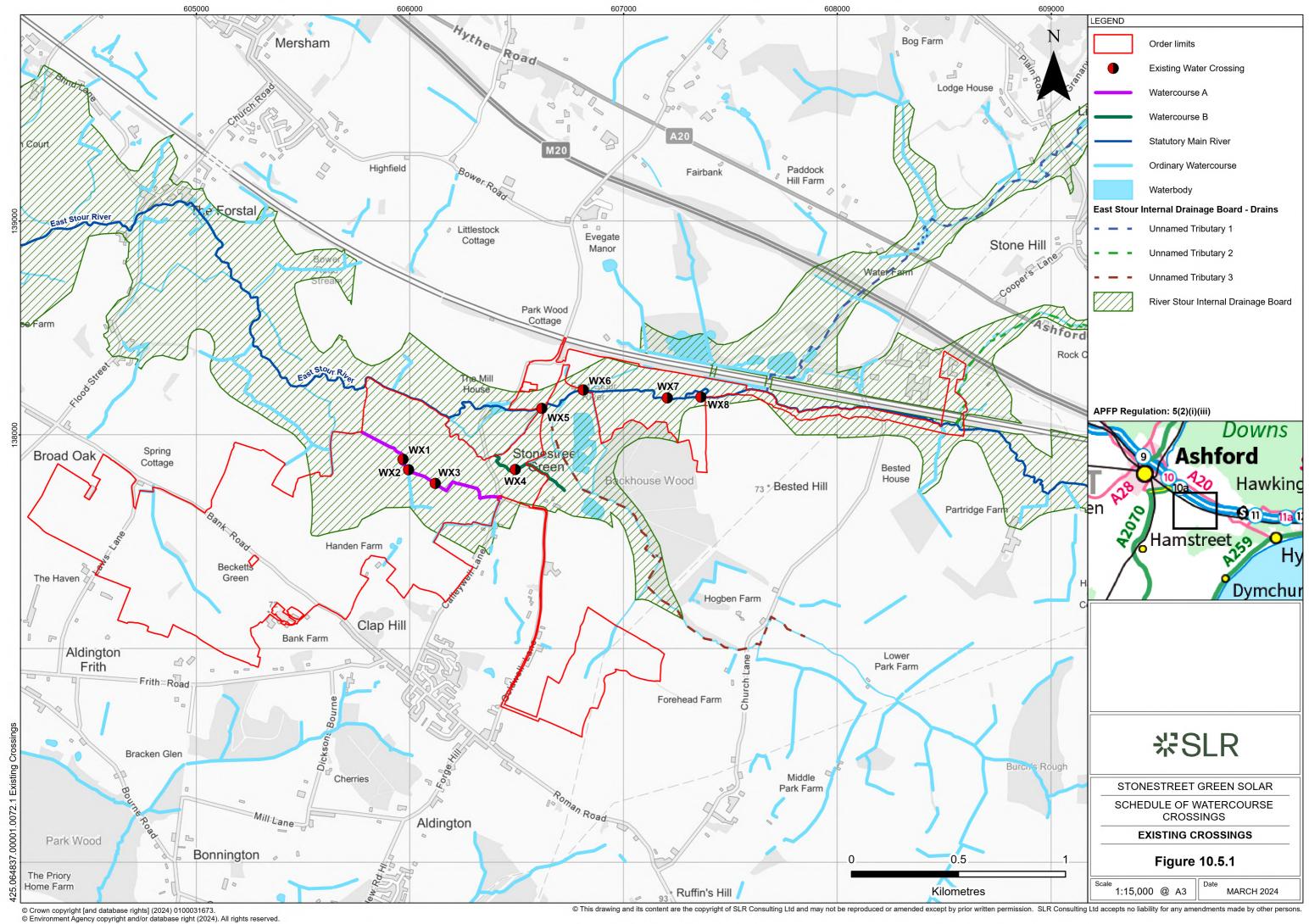


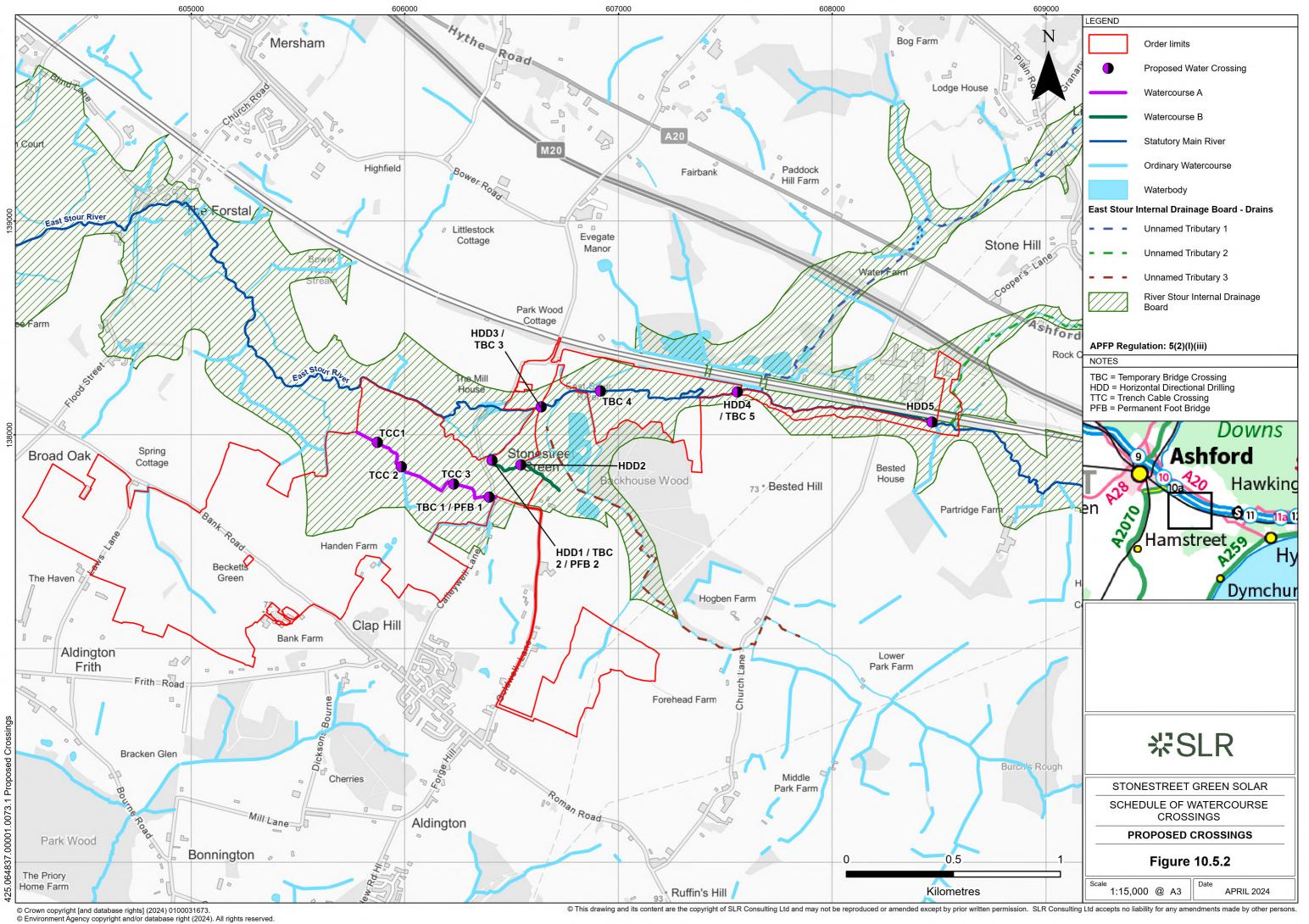


Annex C: Location of Watercourse Crossings Plans

Appendix 10.5: Schedule of Watercourse Crossings







References

- 1 River Stour IDB district map, Available at Accessed April 2024)
- Defra (2020), Guidance, Exempt flood risk activities: environmental permits, Updated 25 February 2020, Available at https://www.gov.uk/government/publications/environmental-permitting-regulations-exempt-flood-risk-activities/exempt-flood-risk-activities-environmental-permits (Accessed April 2024)