



AQUIND Limited

AQUIND INTERCONNECTOR

**Environmental Statement – Volume 3 –
Appendix 22.1 Transport Assessment -
Low Resolution Part 2**

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations
2009 – Regulation 5(2)(a)

Document Ref: 6.3.22.1

PINS Ref.: EN020022



AQUIND Limited

AQUIND INTERCONNECTOR

Environmental Statement – Volume 3 –
Appendix 22.1 Transport Assessment -
Low Resolution Part 2

PINS REF.: EN020022

DOCUMENT: 6.3.22.1

DATE: 14 NOVEMBER 2019

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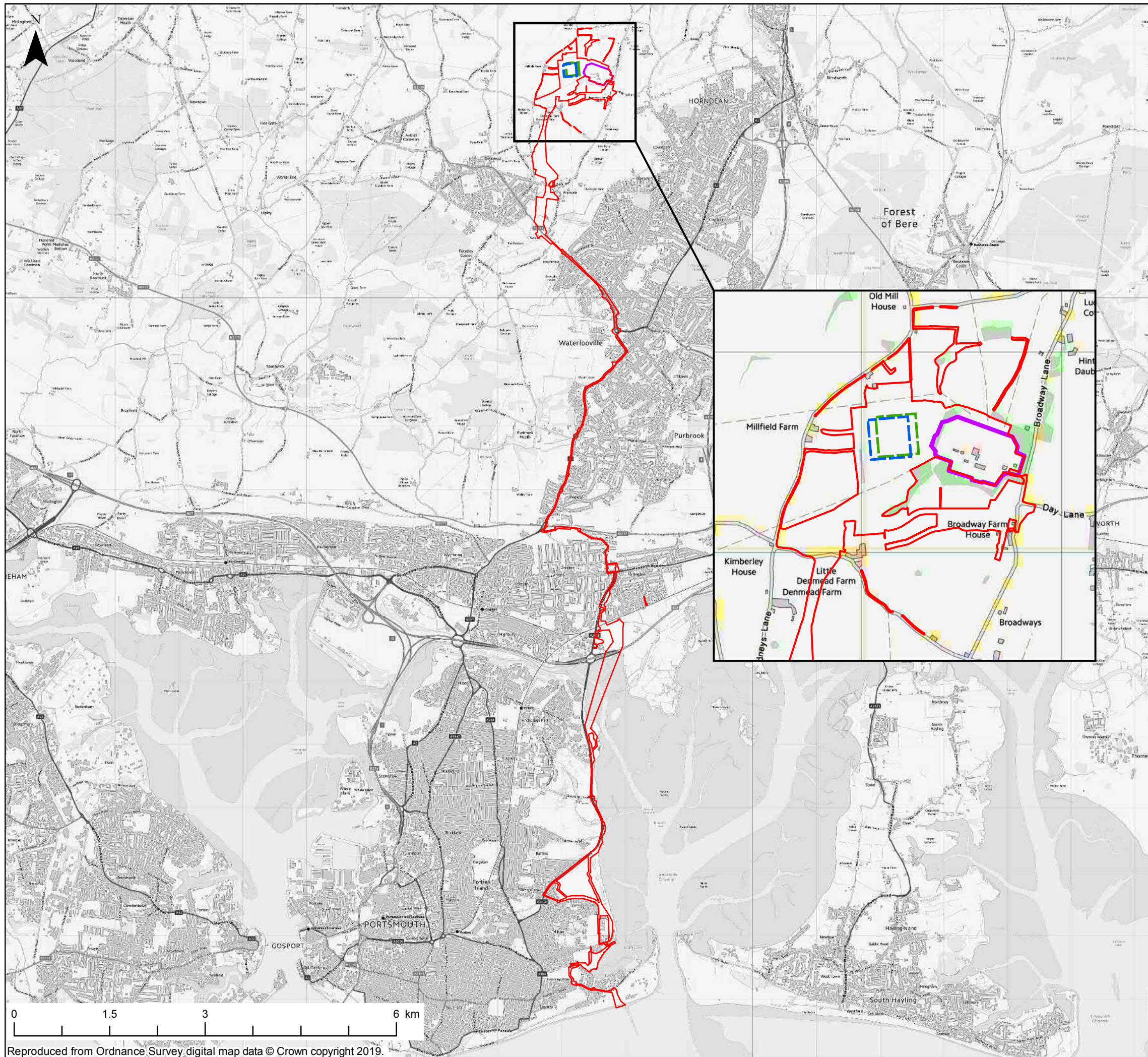
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DOCUMENT

Document	6.3.22.1 Environmental Statement – Volume 3 – Appendix 22.1 Transport Assessment Low Resolution Part 2
Revision	001
Document Owner	WSP UK Limited
Prepared By	L. Jones / H. Shrimpton
Date	13 November 2019
Approved By	C. Williams
Date	13 November 2019

Appendix 1 – Order Limits



Key

- Order Limits
- Converter Station Perimeter Option B (i)
- Converter Station Perimeter Option B (ii)
- Existing Substation Boundary

The Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2017 – Regulation 5(2)(a)

01	29/10/2019	JT	Final	GI	MMcG
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: Final

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CLIENT:

PROJECT:

AQUIND Interconnector

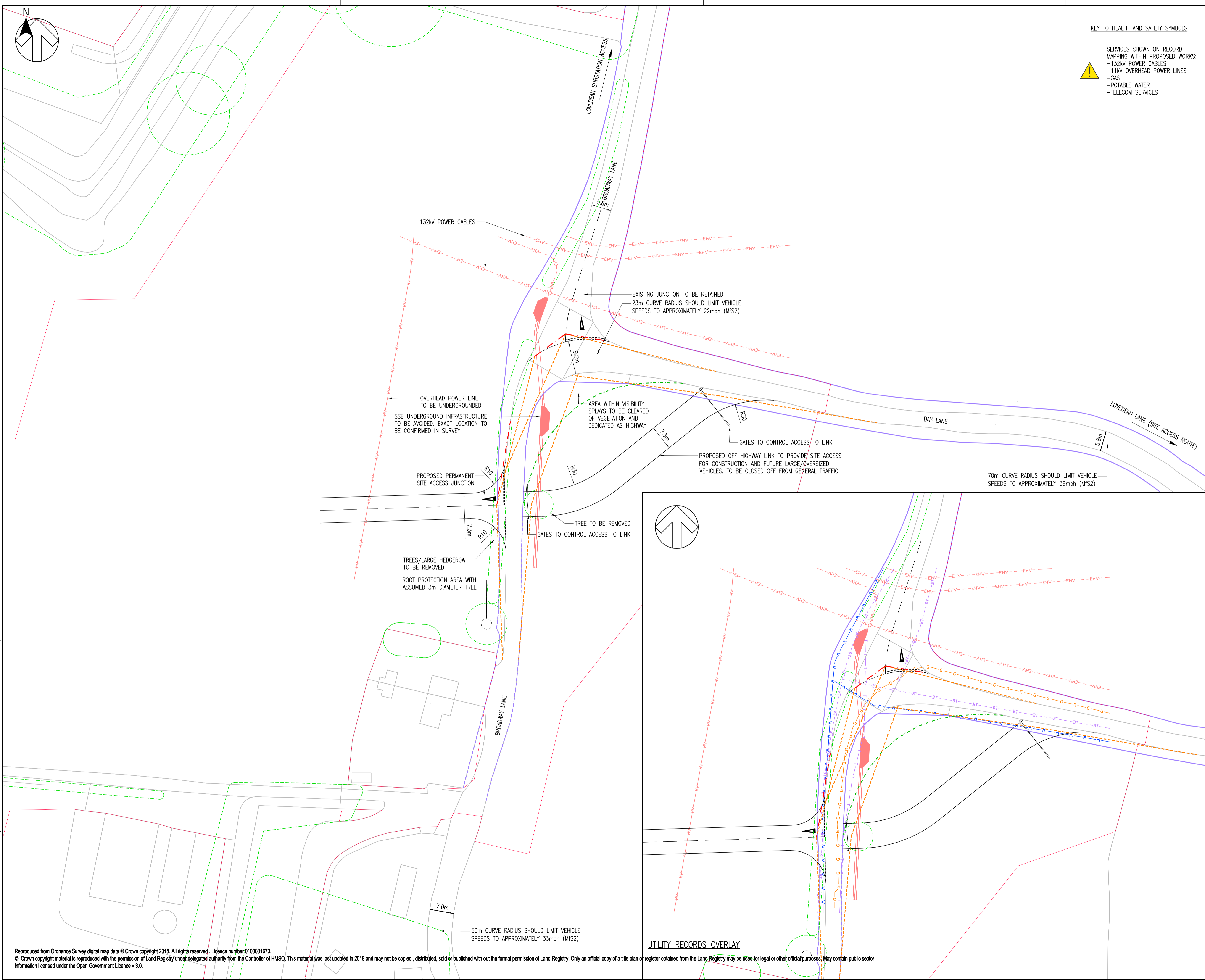
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Figure 3.2
Order Limits (Onshore)

SCALE AT A3 1:59,806	CHECKED: GI	APPROVED: MMcG	
PROJECT NO: EN020022	DESIGNED: JT	DRAWN: JT	DATE: 29/10/2019
DRAWING NO: EN020022-ES-3.2			REV.NO. 01

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Appendix 2 – Converter Station Access Drawing



KEY TO HEALTH AND SAFETY SYMBOLS

⚠ SERVICES SHOWN ON RECORD MAPPING WITHIN PROPOSED WORKS:
 -132kV POWER CABLES
 -11kV OVERHEAD POWER LINES
 -GAS
 -POTABLE WATER
 -TELECOM SERVICES

- NOTES**
- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS OTHERWISE STATED.
 - CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
 - MANUAL FOR STREETS (MIS) STANDARDS HAVE BEEN ADOPTED TO EVALUATE APPROPRIATE VISIBILITY AND SPEEDS. THIS STANDARD IS TYPICALLY APPLIED TO URBAN AREAS BUT FOR THESE ELEMENTS IS MORE SUITABLE FOR MINOR RURAL ROADS THAN DMRB STANDARDS.
 - 85TH PERCENTILE SPEEDS OF 31mph MEASURED SOUTHBOUND JUST BEFORE BEND TO NORTH OF ACCESS, AND 41mph MEASURED NORTHBOUND WELL SOUTH OF THE ACCESS. 50m RADIUS BEND TO SOUTH OF ACCESS SHOULD LIMIT SPEEDS TO 33mph (MIS2 PARA 8.3.5). THEREFORE A 31mph/50kph DESIGN SPEED HAS BEEN ADOPTED.
 - 45m SSD BASED ON MIS TABLE 7.1
 - ARTICULATED LORRY / LOW LOADER VEHICLE MOVEMENTS INTO ACCESS JUNCTION AND EXISTING SUBSTATION JUNCTION WILL TAKE UP WIDTH OF CARRIAGEWAY SO WILL REQUIRE CONTROL.

- KEY**
- DEVELOPMENT CONSENT ORDER BOUNDARY
 - HIGHWAY BOUNDARY / ASSUMED HIGHWAY BOUNDARY
 - 45m FORWARD VISIBILITY
 - 2.4m x 45m VISIBILITY SPLAY
 - 2.4m x OUTSIDE OF BEND VISIBILITY SPLAY
 - ROOT PROTECTION AREA

- SERVICES KEY**
- DISCLAIMER NOTE
- INFORMATION ON THE LOCATION AND SIZE FOR EACH SERVICE HAS BEEN BASED ON RECORD INFORMATION PROVIDED BY THE RELEVANT SERVICE COMPANIES. THE POSITIONS SHOWN ARE INDICATIVE ONLY AND MAY NOT BE COMPLETE. THE PRESENCE OF SERVICES ON SITE SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION WORK OR INTRUSIVE INVESTIGATIONS.
- G — G — EXISTING GAS PIPE
 - HV — EXISTING HIGH VOLTAGE (OVERHEAD)
 - EHV — EXISTING EXTRA HIGH VOLTAGE (U/G)
 - T — T — EXISTING VODAFONE CABLE
 - BT — BT — EXISTING BRITISH TELECOM (U/G)
 - W — W — EXISTING POTABLE WATER PIPE

Infrastructure Planning (Applications: Prescribed Forms & Procedure) Regulations 2009 - Regulation 5(2)(i)

REV	DATE	BY	DESCRIPTION	CHK	APP
02	31/10/2019	MFB	UPDATED DRG FRAME & ADDED TREE LOCATIONS	CW	CW
01	19/09/2019	MFB	FIRST ISSUE	CW	CW

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PROJECT: **AQUIND Interconnector**

TITLE: **BROADWAY LANE SITE ACCESS JUNCTION - OPTION B GENERAL ARRANGEMENT**

SCALE AT:	CHECKED:	APPROVED:
1:500	CW	CW
PROJECT No:	DESIGNED:	DRAWN:
62100616	MFB	MFB
		DATE:
		19/09/2019

DRAWING No: **AQD-WSP-UK-OS-DR-Z-200215** REV: **02**

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File Name: \\UK\SPGROUP\COMMON\DATA\PROJECTS\202006200616 - AQUIND\01\NO.3E MODELS AND DRAWINGS\00 - SITE\03 - TASK 1\UK ROUTE\HIGHWAY ARRANGEMENTS\AQD-WSP-UK-OS-DR-Z-200215.DWG

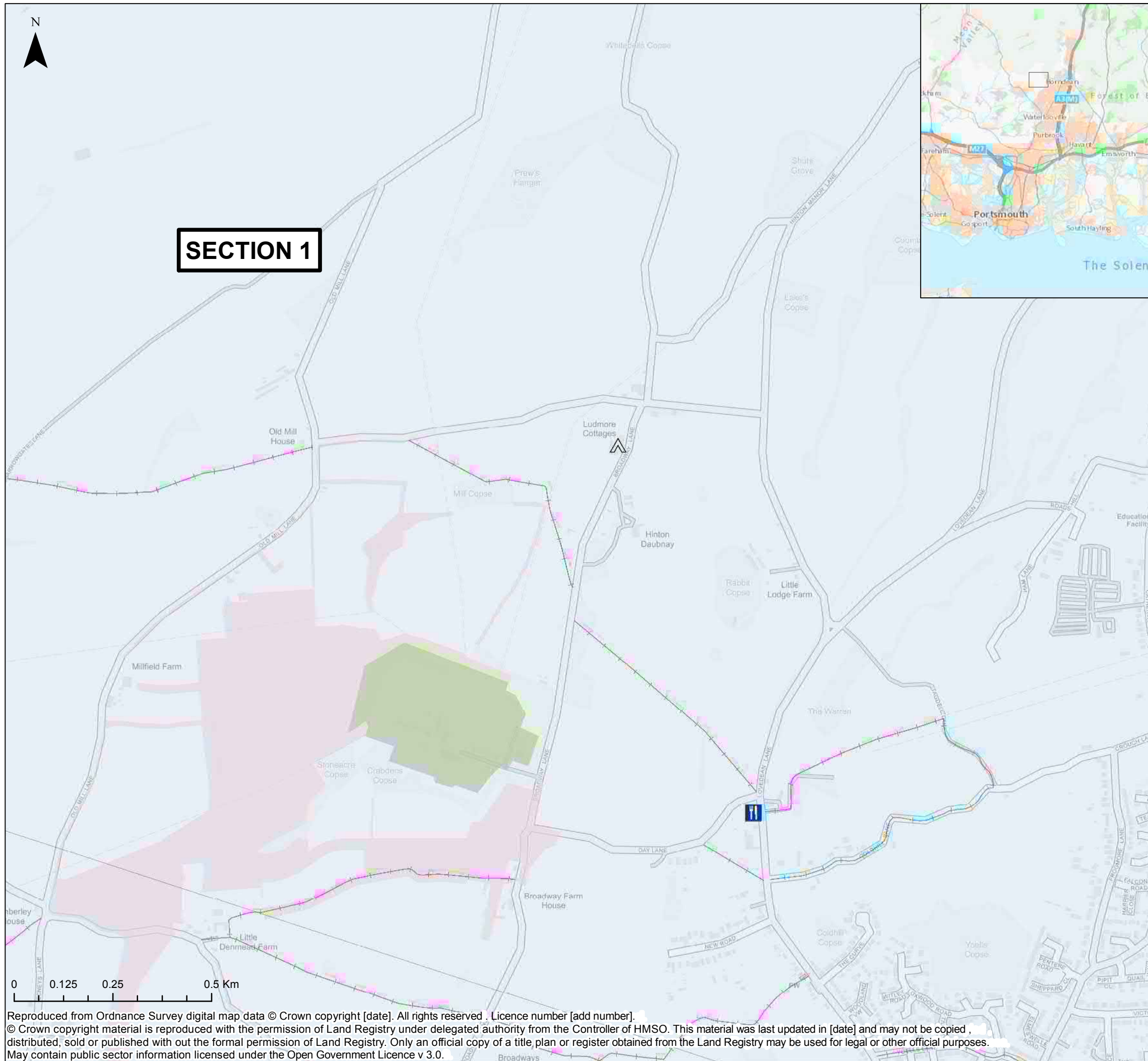
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Appendix 3 – Construction Programme

			2021		2022				2023				2024			
Key Task	Related Activities	Indicative Duration (Weeks)	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Landfall Installation	All activities		■	■	■	■	■	■	■	■	■	■				
	Preparation, drilling and duct installation	44		■	■	■	■									
	Transition Joint Bay									■	■					
	ORS											■				
Onshore Cable Installation (UK)	All activities		■	■	■	■	■	■	■	■	■					
	Route construction		■	■	■	■	■	■	■	■	■	■				
	Cable pulling								■	■						
	Jointing and terminating									■	■					

			2021		2022				2023				2024			
Key Task	Related Activities	Indicative Duration (Weeks)	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Converter Station Construction	All activities, including reinstatement		■	■	■	■	■	■	■	■	■	■	■			
	Enabling /Diversion Works		■	■	■	■										
	Main Civils Construction works					■	■	■	■	■	■					
	Mechanical and Electrical Work											■	■	■		

Appendix 4 – Sensitive Receptors and Temporary Access Locations



SECTION 1



AQUIND Interconnector

TYPE

- Campsite
- Pub
- Education School Type
- Other Educational Facility

Public Rights of Way

- BOAT
- Footpath

Order Limits

- Order Limits

Sections

- Sections

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

REV	DATE	BY	DESCRIPTION	CHK	APP
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CLIENT:



PROJECT:
AQUIND Interconnector

TITLE:
CTMP Sensitive Receptors - Section 1

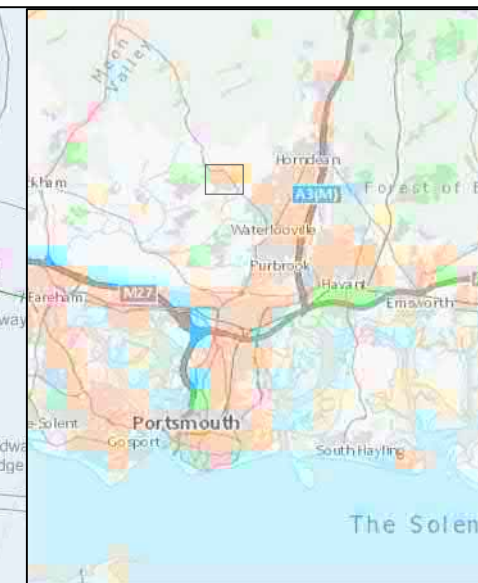
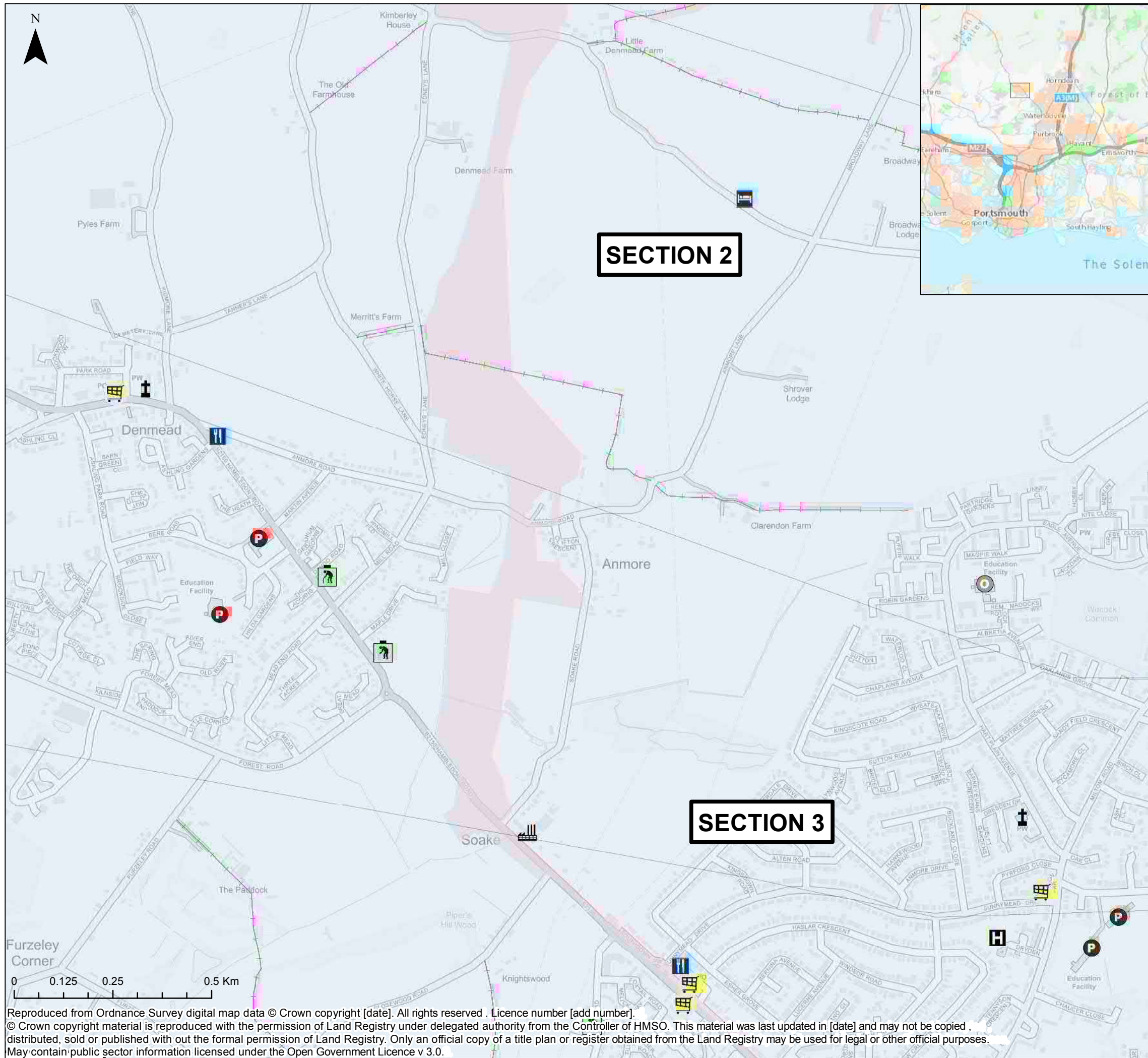
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PROJECT NO: EN020022	DESIGNED: SG	DRAWN: SG	DATE: 13/11/2019
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AQUIND Interconnector	
TYPE	Order Limits
B&B	Industrial Estate
Campsite	Leisure
Caravan Park	Lifeboat Station
Care Home	Marina
Church	Medical Group
Community Centre	Pub
Education	Retail
Guesthouse	Scout Hut
Public Rights of Way	Footpath
Bridleway	Sections
School Type	Primary
Other Educational Facility	

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

REV	DATE	BY	DESCRIPTION	CHK	APP
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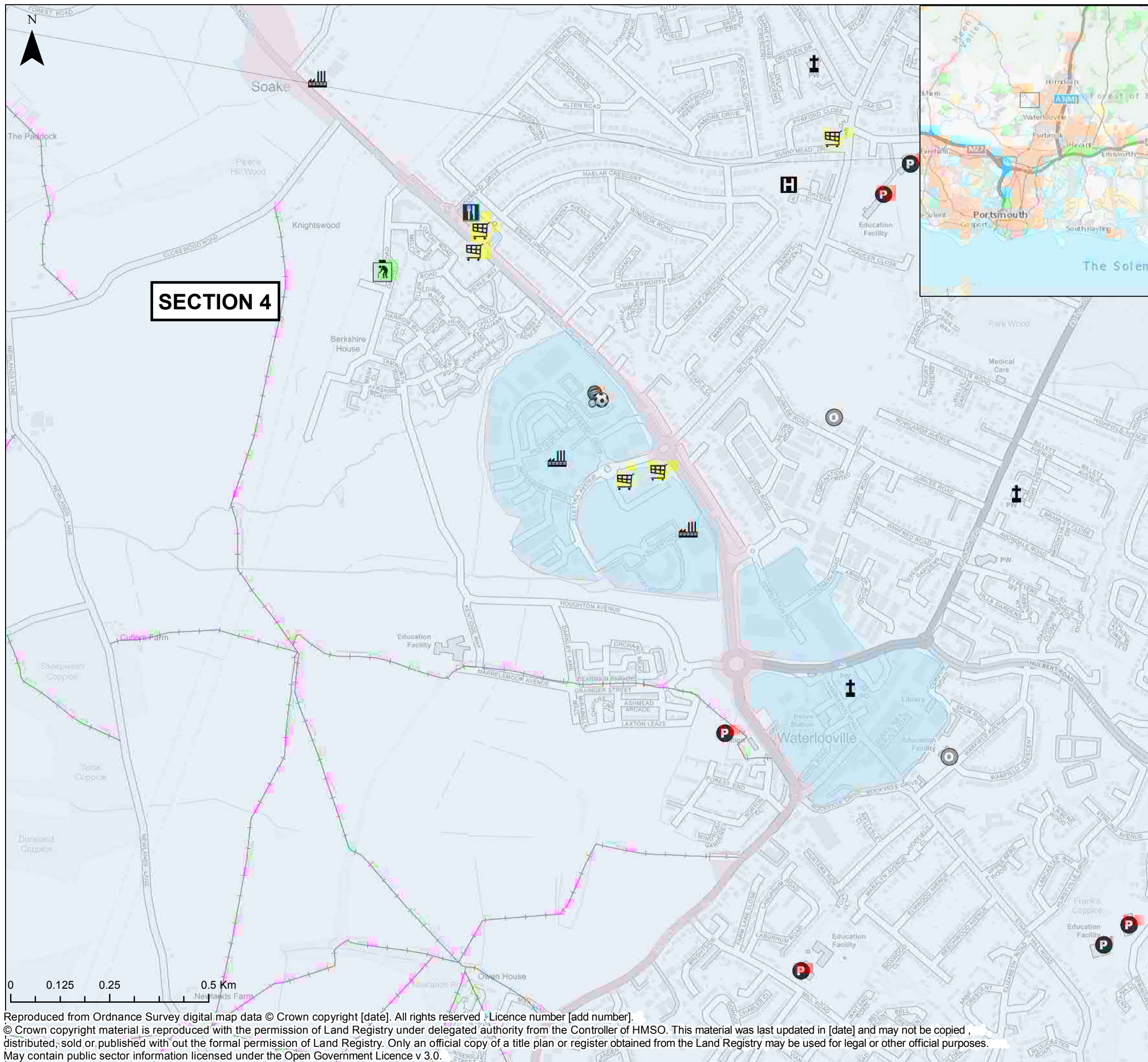
PROJECT:
AQUIND Interconnector

TITLE:
CTMP Sensitive Receptors - Section 2/3

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DRAWING NO: EN020022-ESAPPENDIX-22.1.F.2		REV.NO: 01

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TYPE		Order Limits
	Care Home	Public Rights of Way
	Church	Bridleway
	Industrial Estate	Footpath
	Leisure	Restricted Byway
	Medical Group	Sections
	Pub	Existing
	Retail	Primary
		Secondary
		Other Educational Facility

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

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PROJECT: **AQUIND Interconnector**

TITLE: **CTMP Sensitive Receptors - Section 4.1**

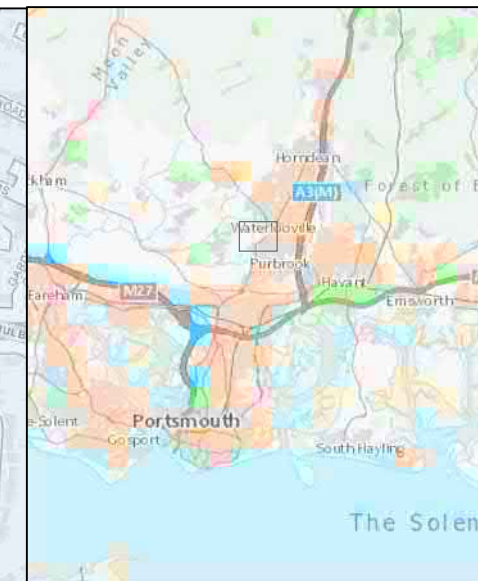
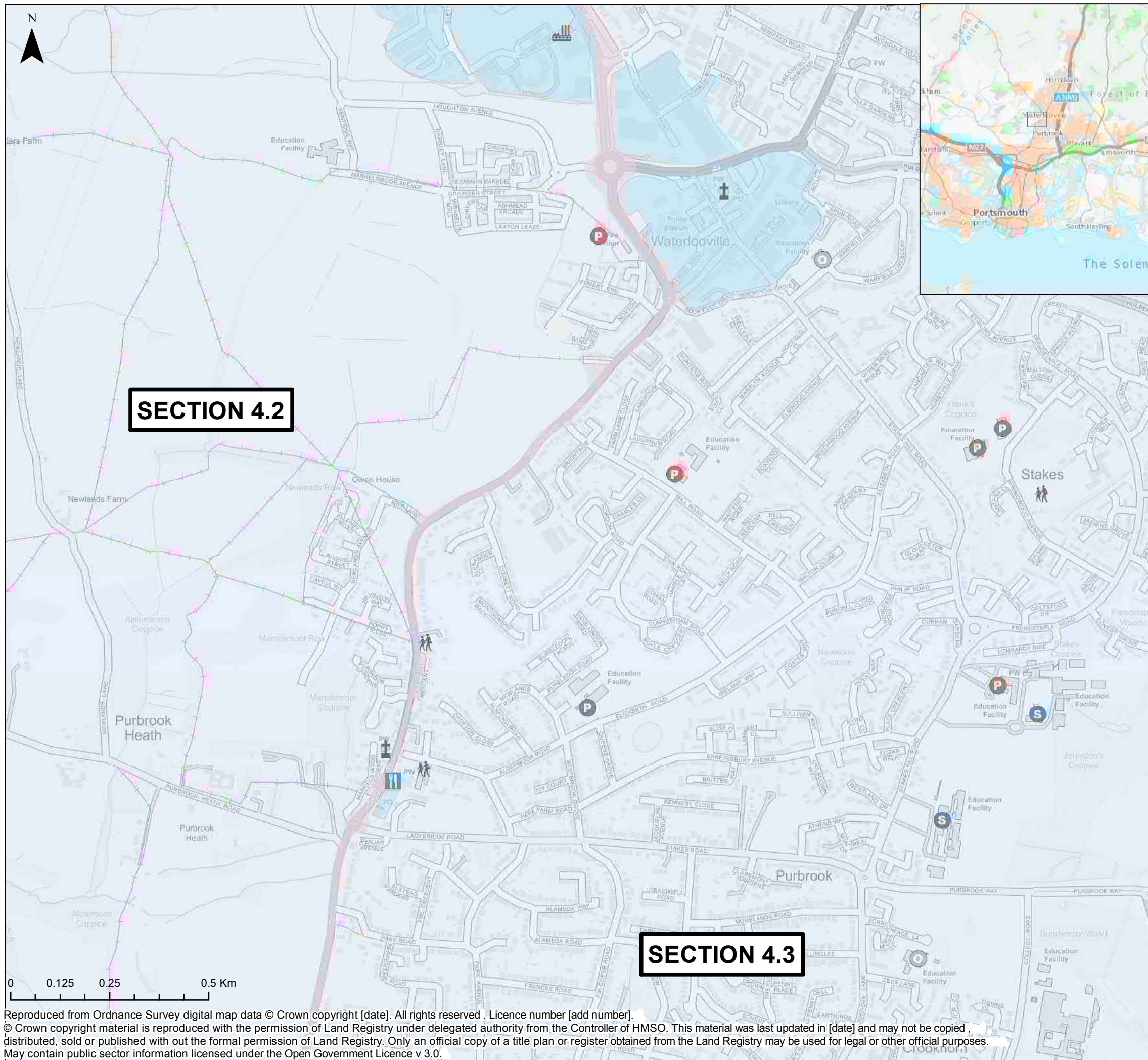
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AQUIND Interconnector	School Type
Sections	Primary
TYPE	Secondary
Church	Other Educational Facility
Community Centre	Public Rights of Way
Industrial Estate	BOAT
Pub	Bridleway
Existing	Footpath
	Restricted Byway
	Order Limits

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

SECTION 4.2

SECTION 4.3

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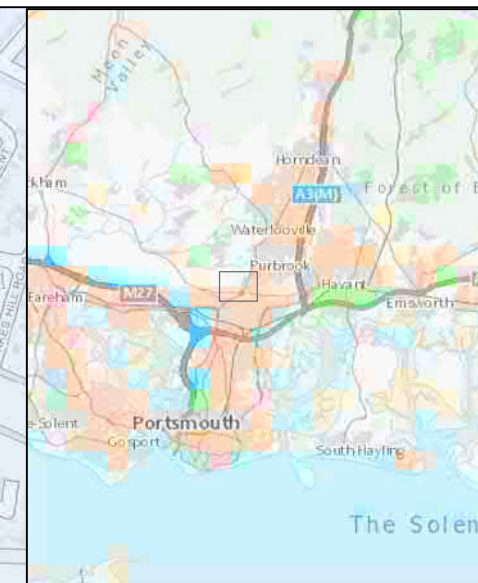
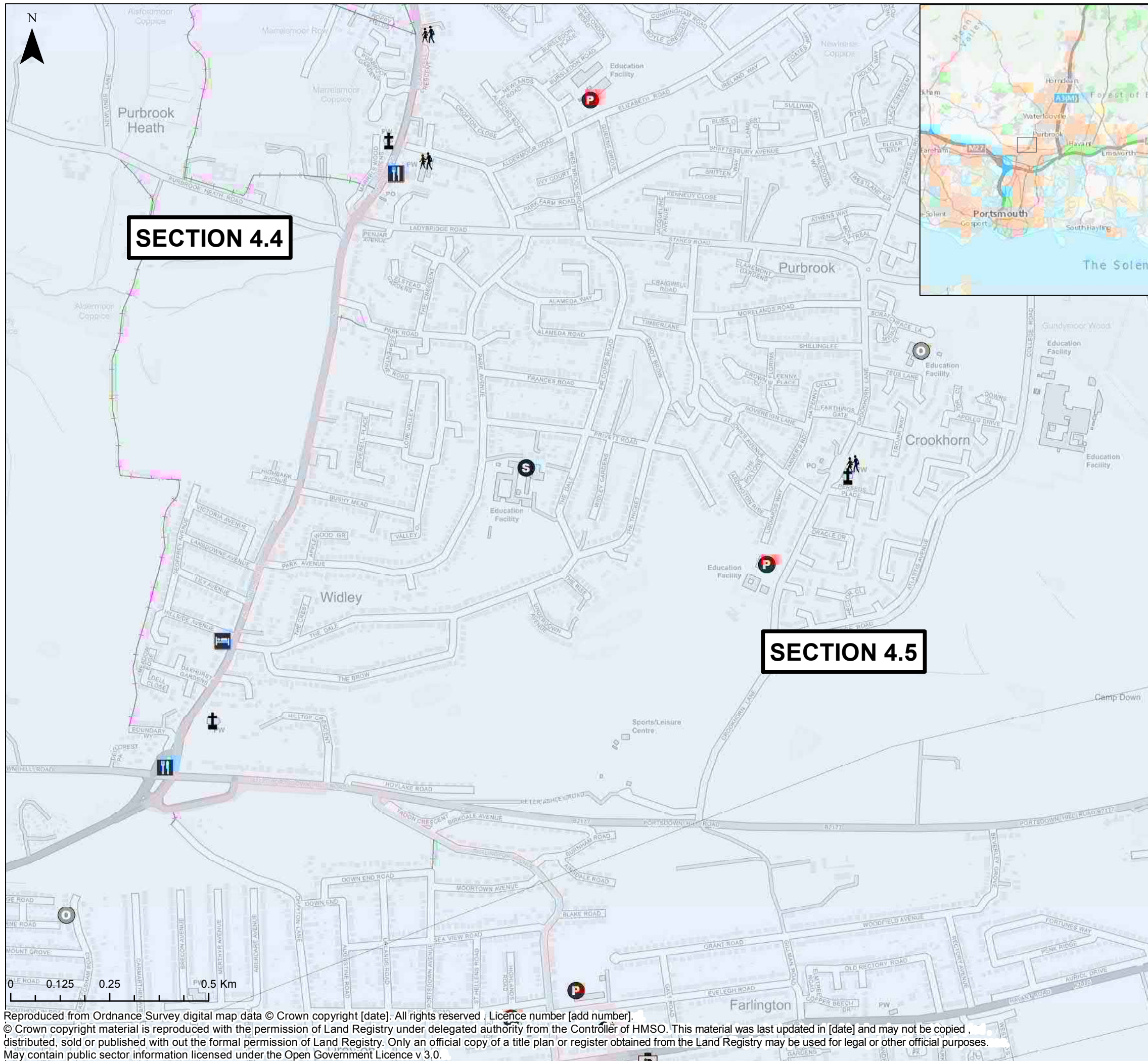


PROJECT: **AQUIND Interconnector**

TITLE: **CTMP Sensitive Receptors - Section 4.2 / 4.3**

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AQUIND Interconnector

TYPE

- Care Home
- Church
- Community Centre
- Guesthouse
- Pub
- Scout Hut
- Red Line Boundary

School Type

- Primary
- Secondary
- Other Educational Facility

Sections

- Sections
- Footpath

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

REV	DATE	BY	DESCRIPTION	CHK	APP
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PROJECT: **AQUIND Interconnector**

TITLE: **CTMP Sensitive Receptors - Section 4.4 / 4.5**

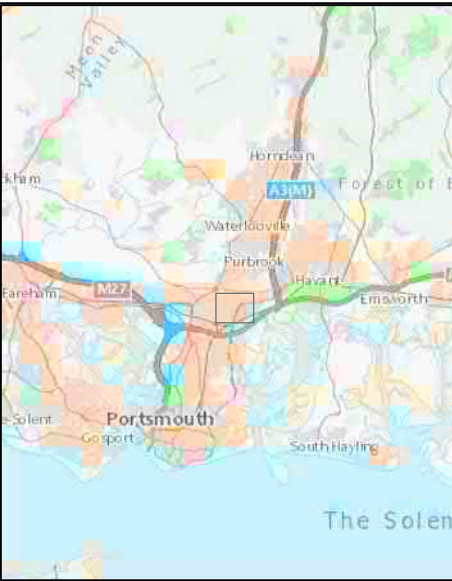
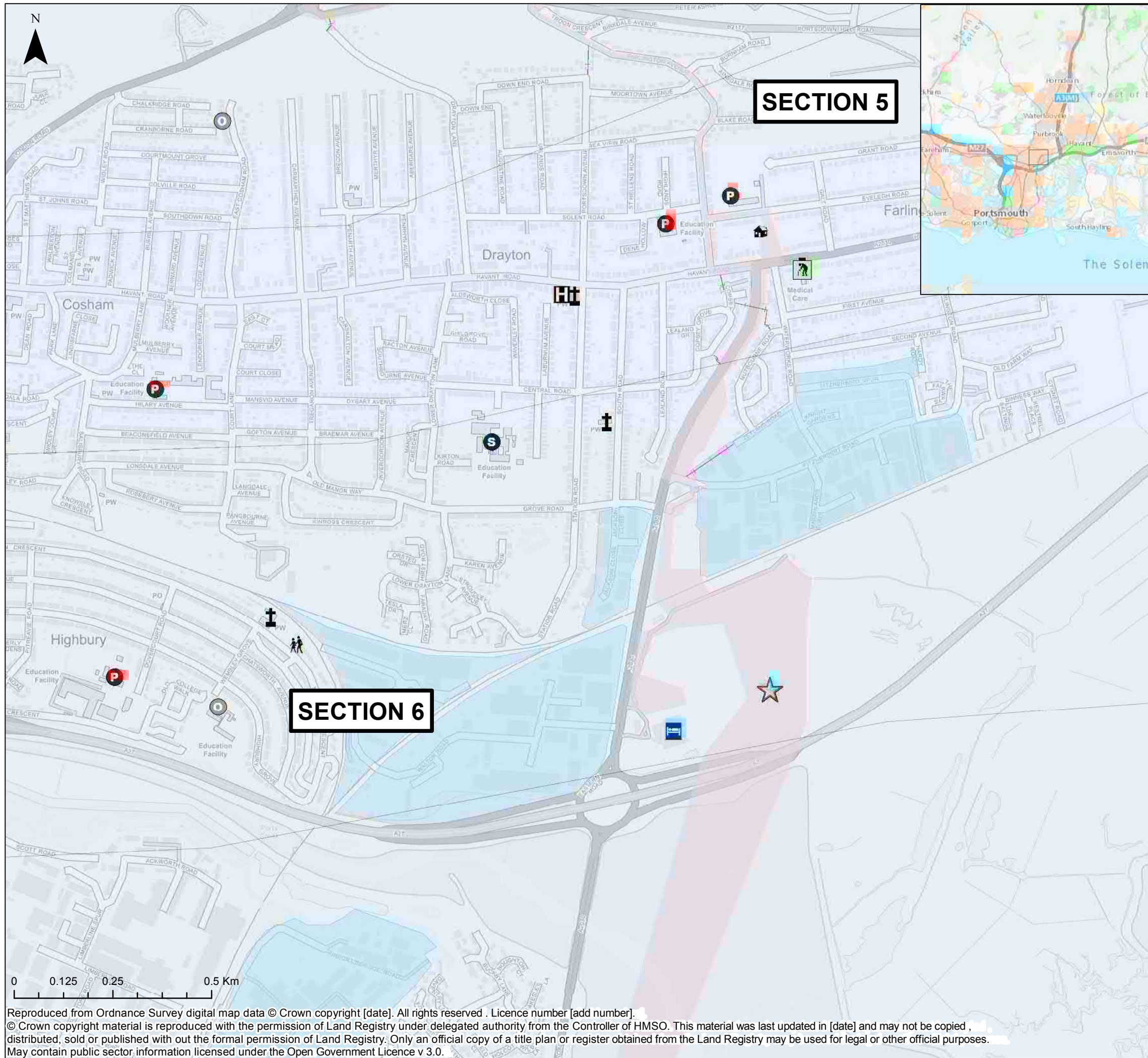
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TYPE	
	Care Home
	Church
	Community Centre
	Guesthouse
	Medical Group
	Scout Hut
	Victorious Music Festival
	Order Limits
	Footpath
	Sections
	Existing
	School Type
	Primary
	Secondary
	Other Educational Facility

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

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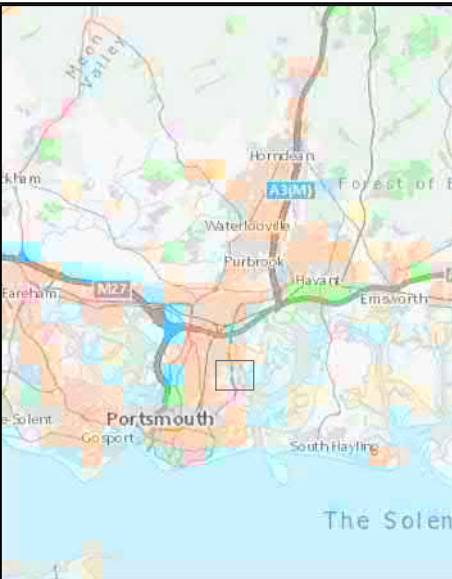
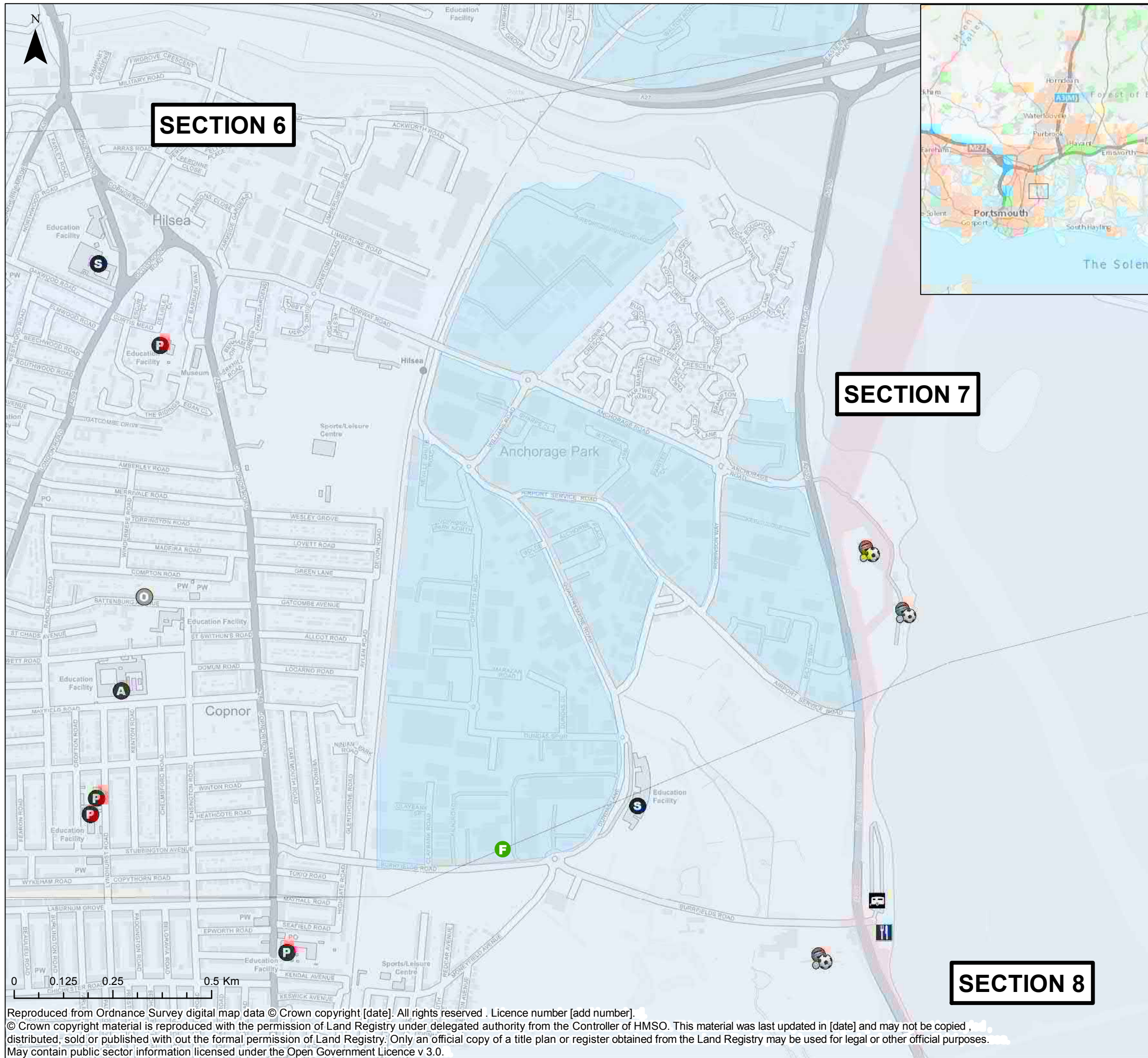
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AQUIND Interconnector

TITLE:
CTMP Sensitive Receptors - Section 5.1 / 5.2 / 6

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DRAWING NO: EN020022-ESAPPENDIX-22.1.F.6		REV.NO: 01

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TYPE		School Type		Sections	
	Caravan Park		Nursery		Sections
	Leisure		Primary		Existing
	Pub		Middle Deemed Primary		
	Order Limits		Secondary		
	Public Rights of Way		Middle Deemed Secondary		
	BOAT		Further Education		
	Bridleway		All Through		
	Footpath		Other Educational Facility		
	Restricted Byway				

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

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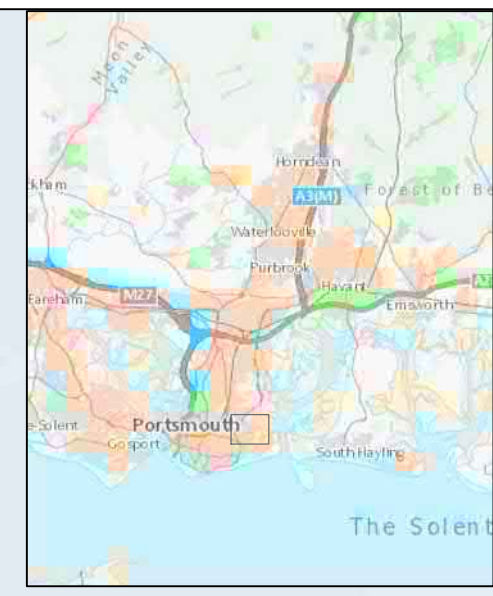
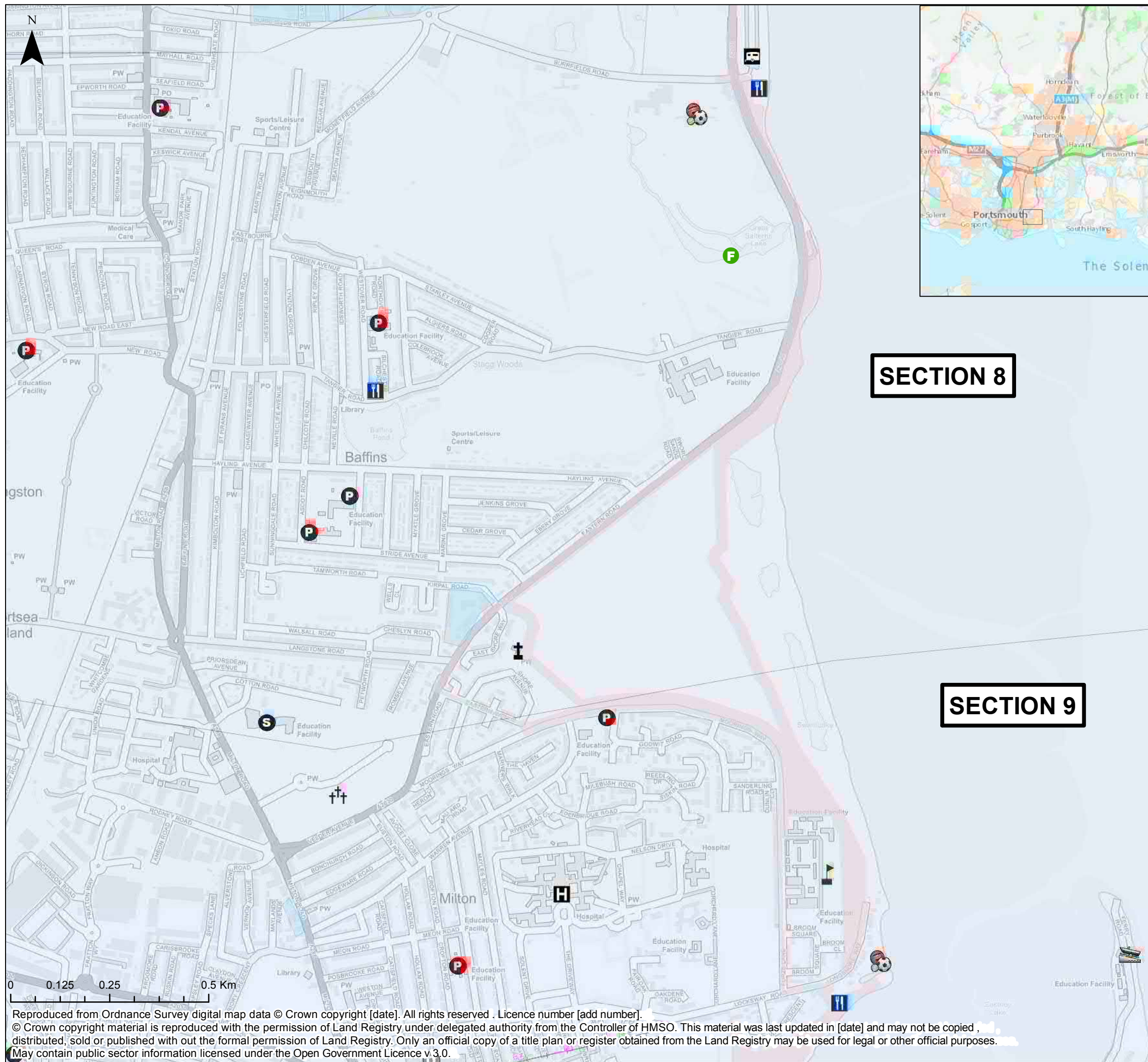
PROJECT:
AQUIND Interconnector

TITLE:
CTMP Sensitive Receptors - Section 7 / 8.1

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		DATE: 13/11/2019
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TYPE	
	Caravan Park
	Cemetery
	Church
	Education
	Leisure
	Lifeboat Station
	Medical Group
	Pub
	Order Limits
	Public Rights of Way
	Footpath
	Sections
	Existing
	School Type
	Primary
	Secondary
	Other Educational Facility
	Further Education

SECTION 8

SECTION 9

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

REV	DATE	BY	DESCRIPTION	CHK	APP
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PROJECT: **AQUIND Interconnector**

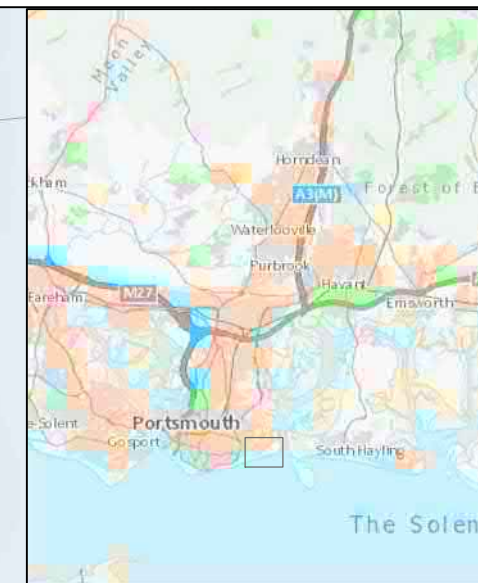
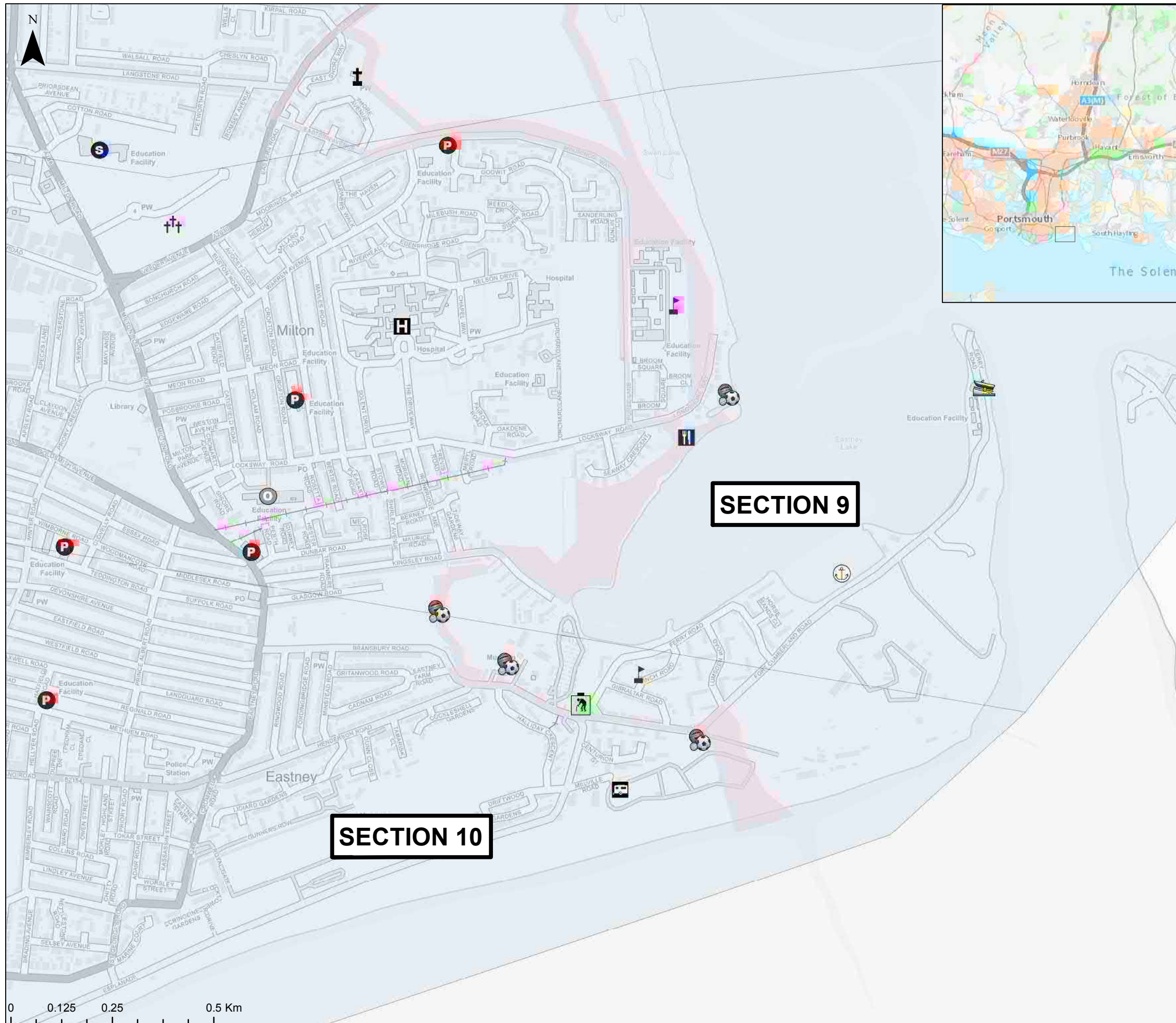
TITLE: **CTMP Sensitive Receptors - Section 8.2 / 9**

SCALE AT A3 1:9,651	CHECKED: CW	APPROVED: CW
PROJECT NO: EN020022	DESIGNED: SG	DRAWN: SG
	DATE: 13/11/2019	

DRAWING NO: EN020022-ESAPPENDIX-22.1.F.8	REV.NO: 01
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TYPE		Public Rights of Way	
	Caravan Park		Footpath
	Care Home		Order Limits
	Cemetery		School Type
	Church		Primary
	Education		Secondary
	Leisure		Other Educational Facility
	Lifeboat Station		Sections
	Marina		
	Medical Group		
	Pub		

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(i)

REV	DATE	BY	DESCRIPTION	CHK	APP
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PROJECT:
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TITLE:
Outline Traffic Management Proposals - Section 10

SCALE AT A3 1:9,651	CHECKED: CW	APPROVED: CW
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PROJECT NO: EN020022	DESIGNED: SG	DRAWN: SG	DATE: 13/11/2019
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Appendix 5 – Abnormal Indivisible Load Study

COLLETT

EXPERTS IN MOTION



Route Access Survey
333100

A3(M) J2 to AQUIND Lovedean

WSP
September 2019



COLLETT
EXPERTS IN MOTION

Victoria Terminal
Albert Road
HALIFAX
West Yorkshire
HX2 0DF

Mistral Point
AW Nielsen Road
GOOLE
East Yorkshire
DN14 6UE

Baltic House
Central Dock Road
GRANGEMOUTH
Central Scotland
FK3 8TY

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Report Details

Report for

Stewart Urquhart
WSP
Three White Rose Office Park
Millshaw Park Lane
Leeds
LS11 0DL

Attendees of Survey

Steven Mangham

Time / Date of Survey: 2nd July 2019

General weather conditions: Mixed

Issued by

Steven Mangham

Approved by

Steven Mangham

Collett & Sons Ltd
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Document Revisions

No	Date	Details
1	04/11/2019	Updated to client comments
2	08/11/2019	Updated to client comments

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Company Profile

Collett & Sons Ltd established in Halifax over 45 years ago specialise in the multimodal logistics throughout the UK, Europe and Worldwide.

Our Company owns a modern fleet of over 60 vehicles and over 100 trailers, operating from 3 depots located in Halifax, Goole and Grangemouth.

The depots situated in Goole and Grangemouth offer strategically located sites suitable to provide central hubs for distribution throughout the UK. Each facility is complete with up to 110 tonnes lifting capacity in order to be able to handle all various abnormal load types. As logistical partners, the company is able to offer the complete transport solution from point of manufacture through to job site.

Collett & Sons Limited operate an in-house consultancy that deals with transport feasibility, route and site access surveys, Swept Path Analysis, Traffic Management Plans, Test Drives and Environment Statements.

In addition to consulting services, Collett & Sons Limited delivers the following services;

- Marine
- Port Operation
- Heavy Lift Storage
- Heavy Transport
- Project Management
- Freight Forwarding
- Heavy Lift
- General Haulage
- Warehousing
- Test Station (DVSA-authorized)
- SHEQ Training



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1. Executive Summary

- 1.1. This report comprises of a study of the road route as detailed here in for the road transport of a transformer to the proposed AQUIND Lovedean site, Lovedean, Hampshire.
- 1.2. One route has been assessed from the A3(M) Junction 2 to the Day Lane/Broadway Lane junction, Lovedean.
- 1.3. Due to the height of the proposed transformer and subsequent vehicle configuration, a suitable high load route is required from Port to start of the route detailed in this report body.

Third party land

- 1.4. Third party land is required that the Day Lane/Broadway Lane junction if Option 2 is selected as the preferred method of navigating that junction.

Road widening

- 1.5. Road widening within highways owned land is required at the A3/Lovedean Lane junction on the nearside footpath. Area to be made suitable to withstand axle loadings.

Modifications to street furniture

- 1.6. Modifications to street furniture will be required along the route at a number of locations. The locations where street furniture removal is required are: B2149/A3 Junction, A3/Lovedean Lane Junction, Right bend on Lovedean Lane, Lovedean Lane/Day Lane Junction and Day Lane/Broadway Lane Junction.

Vertical Alignment and Height Clearances

- 1.7. Due to the length and nature of the route there are a high number of overhead utility lines. The heights of these lines have not been assessed as part of this survey and further investigation is required with the utility companies, once the final load dimensions are determined, to establish their cable heights and any remedial measures that may be required.
- 1.8. There are no overhead structures on the routes.
- 1.9. On Day Lane, there is an incline gradient which will require the loaded vehicle to be towed. Towing vehicles will be required for deliveries.

Structural Assessment

- 1.10. Consultation with the relevant authorities has not been undertaken as part of this assessment due to the high G.V.W of the loaded configuration.
- 1.11. For loads of this nature, it is usually expected/recommended that full structural surveys are undertaken of any structures on the route. Once the exact load dimensions are established, consultation with the relevant authorities is required to determine the structural suitability of the route.
- 1.12. It should be noted that this route has been used for delivery of transformers to the Lovedean facility although that does not necessarily mean that this route is suitable for loads of this nature.

Other areas of note

- 1.13. Tree pruning will be required at numerous locations to ensure that a clear envelope is present for the vehicle.
- 1.14. As part of the delivery convoy, tree surgeons and utility companies will be required to accompany the loads to make any necessary amendments.

Unloading on site to Bund/Plinth

- 1.15. Once the loaded vehicle arrives at the proposed site, the load will require unloading to the bund/plinth.

- 1.16.** It is recommended that the proposed site is designed to allow the loaded girder set to navigate alongside the plinth, where the transformer can then be unloaded from the Girder set and then moved into position using the Jack and Skate method.
- 1.17.** If this site cannot be designed to achieve the above, transshipment on site to a SPMT vehicle will be required to move then transformer to the plinth for Jacking and Skating.

2. Introduction

- 2.1 Collett & Sons Ltd. were commissioned by WSP to undertake an abnormal loads route access study to assess the transportation of a transformer components to the proposed AQUIND Lovedean Facility at Lovedean, Hampshire.
- 2.2 The road routes as detailed herein are for the road transport of the transformer component identified in Section 4.
- 2.3 The purpose of this report is to detail access from Junction 2 of the A3(M).

3. Candidate Abnormal Loads

- 3.1. WSP have requested that the assessment on which this report is compiled be based on the following Cargo Details: Length 10200mm, depth 4100mm, height 5100mm.

4. Abnormal Indivisible Load Profiles

- 4.1. The abnormal load components are assessed based on weight, length, width and height and loaded to the most appropriate vehicle the weights and dimensions of these are detailed below. The loading diagrams are detailed in Appendix 1.

4.2.	COL-D-333100-1-1
LIN STORAGE TANK	
	Loaded vehicle dimensions
Overall vehicle Length	79.415m
Rigid Length	34.332m
Width	6.20m
Height	5.452m
Gross Vehicle Weight exc. Tractor Units	492.82Te
Maximum axle line weight	15.275Te

5. Responses from Statutory Consultees (Structures Suitability)

Summary of Structural Issues

- 5.1. Consultation with the relevant authorities has not been undertaken as part of this assessment due to the high G.V.W of the loaded configuration.
- 5.2. For loads of this nature, it is usually expected/recommended that full structural surveys are undertaken of any structures on the route. Once the exact load dimensions are established, consultation with the relevant authorities is required to determine the structural suitability of the route.
- 5.3. It should be noted that this route has been used for delivery of transformers to the Lovedean facility although that does not necessarily mean that this route is suitable for loads of this nature.

6. Route Assessment Overview

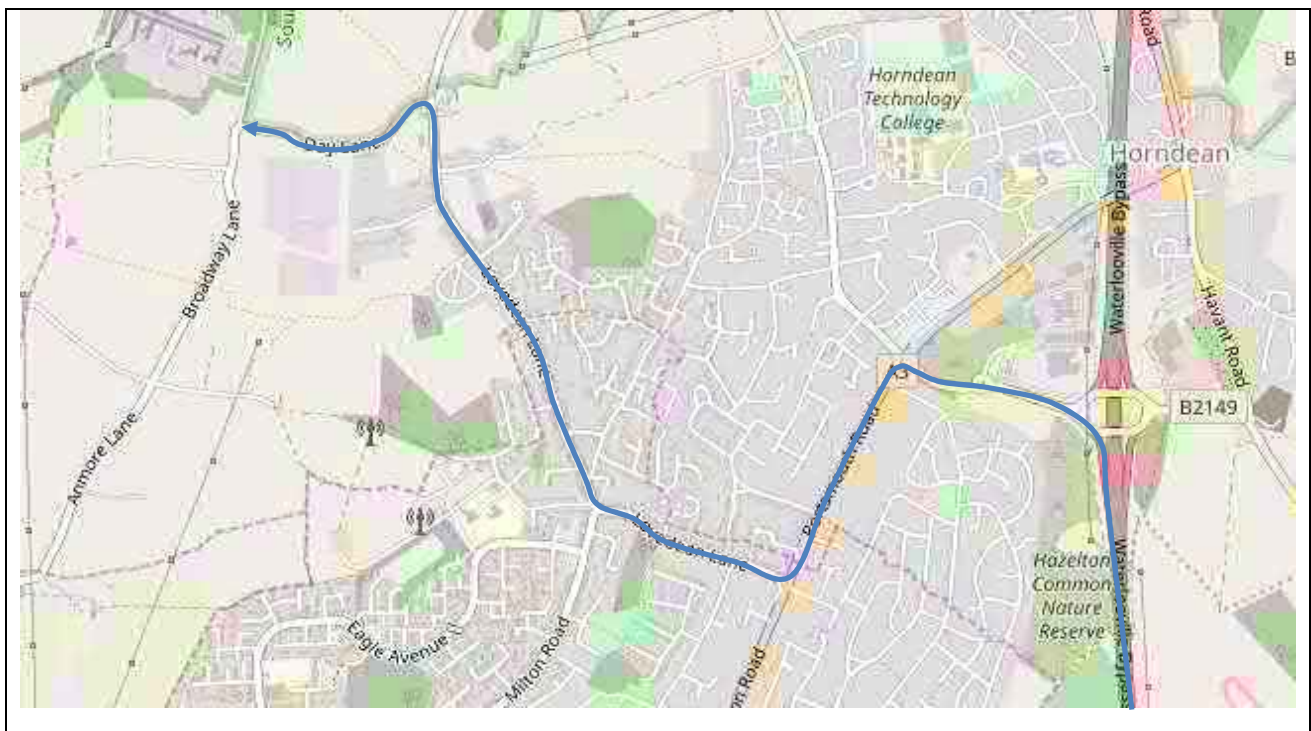
- 6.1. This section of the report illustrates the route assessed for the delivery of the storage tank components from Ellesmere Port to Air Liquide Facility at Coleshill.
- 6.2. For the purpose of this report, one route to the site was surveyed. All the routes surveyed in this report have been identified by Collett Consulting.

6.3.

Route A

Start Location	M3 Junction 2	Distance of Route	Km	Miles
Via:	B2149/A3/Lovedean Ln		4.1	2.5
<ul style="list-style-type: none"> Exit M3 Northbound at Junction 2 At roundabout, turn left onto B2149 At roundabout, continue straight on B2149 Turn left onto A3 Turn right onto Lovedean Lane Turn left onto Day Lane At junction with Broadway Lane, continue onto new access road. 				

6.4. Map Overview



6.5. Amendment Categorisation

For the purposes of this report, the route amendments have been identified into 3 categories.

Major Amendments – Third Party Land, Road Widening

Minor Amendments – Modifications to Street Furniture, Pruning, Contraflow Manoeuvre, Manual Steering

No Amendments - Location is suitable as assessed during this survey


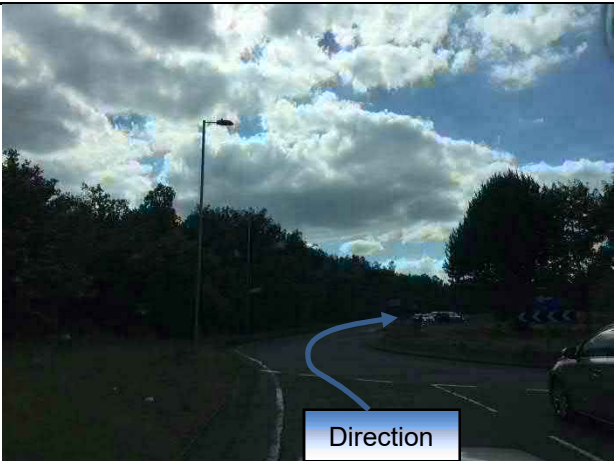

The categories have been colour coded for each report item as per the below key.



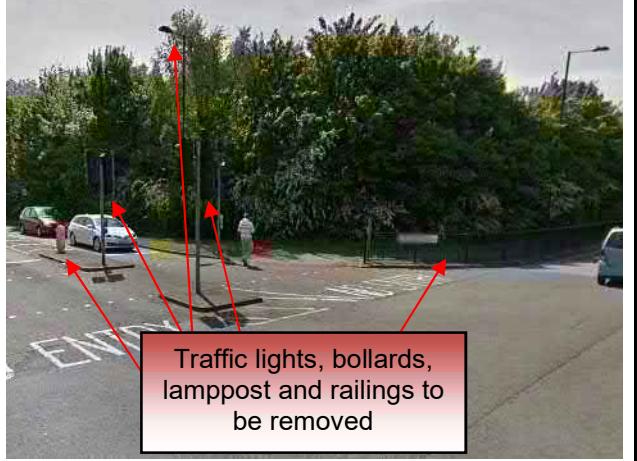
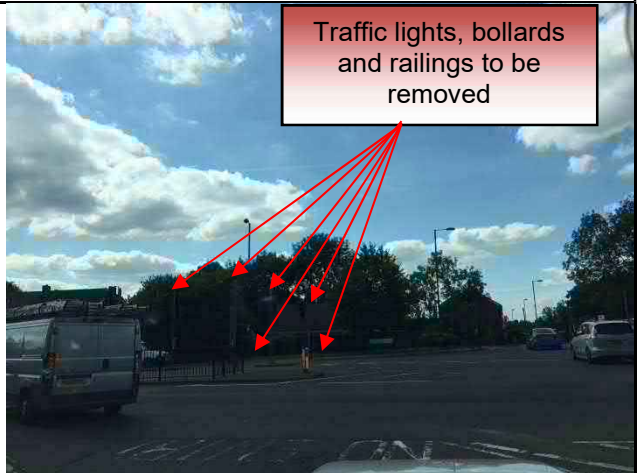
KEY			
	Major Amendments		Minor Amendments
	No Amendments		





6.6. Map extract of survey locations






ITEM NUMBER	6.6.1		LOCATION	A3(M) JUNCTION 2/B2149 ROUNDABOUT	
DIRECTION	Take 1st Exit at the roundabout				
GRID REFERENCE	SU 70411 12347				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that pruning of vegetation on the nearside will need to be made in order for the vehicle to pass through this section of the route.					
			View of exiting the roundabout		
					
			Vehicle Direction		
					
Aerial View of Location					
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept Path Analysis	
RELATED DOCUMENT NUMBERS		COL-D-333100-10-2			

ITEM NUMBER	6.6.2		LOCATION	B2149 ROUNDABOUT	
DIRECTION	Take 1st Exit at the roundabout				
GRID REFERENCE	SU 70065 12480				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
Visual inspection indicates that the vehicle will have no issues at this location.					
			Entry to roundabout		
					
			Vehicle Direction		
					
Aerial View of Location					
FURTHER INVESTIGATION UNDERTAKEN?		NO	TYPE	N/A	
RELATED DOCUMENT NUMBERS		N/A			

ITEM NUMBER	6.6.3		LOCATION	B2149/A3 JUNCTION	
DIRECTION	Turn left at this junction				
GRID REFERENCE	SU 69831 12559				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that modifications to street furniture are required at this location. The filter splitter lane, traffic lights and bollards to be removed.</p> <p>The central reservation needs to be cleared to allow over sail, removal of traffic lights and barriers on the offside are also required.</p> <p>Loaded vehicle will contraflow the central reservation on the A3.</p>			 <p>Approaching Crossroads</p>		
 <p>Aerial View of Location</p>			 <p>Traffic lights, bollards, lamppost and railings to be removed</p> <p>View of entry splitter island</p>		
			 <p>Traffic lights, bollards and railings to be removed</p> <p>View of splitter island</p>		
FURTHER INVESTIGATION UNDERTAKEN?			YES	TYPE	Swept Path Analysis
RELATED DOCUMENT NUMBERS			COL-D-333100-10-3		



ITEM NUMBER	6.6.4		LOCATION	SPLITTER ISLAND ON A3	
DIRECTION	Continue straight at this location				
GRID REFERENCE	SU 69566 12079				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
<p>Visual inspection indicates that pruning of vegetation will be required at this location.</p> <p>Tree on nearside to be pruned to provide a clear envelope.</p>					
			View of splitter island		
					
Vehicle Direction			View of splitter island		
					
Aerial View of Location					
FURTHER INVESTIGATION UNDERTAKEN?		NO	TYPE	N/A	
RELATED DOCUMENT NUMBERS		N/A			





ITEM NUMBER	6.6.5		LOCATION	A3/LOVEDEAN LANE JUNCTION	
DIRECTION	Turn right at this junction				
GRID REFERENCE	SU 69483 11884				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that road widening is required on the nearside of the A3 to allow axles to run on the footpath area. Area to be made suitable to withstand axle loadings.</p> <p>Swept path analysis indicates that modifications to street furniture are required on the nearside at this location.</p> <p>Road signs to be removed in order for the trailer to oversail the grass patch.</p>			 <p>Street signs to be removed</p> <p>Direction</p>		
			<p>Reverse view of junction</p>		
			 <p>Widening required</p>		
			<p>Aerial View of Location</p>		
FURTHER INVESTIGATION UNDERTAKEN?			YES	TYPE	Swept Path Analysis
RELATED DOCUMENT NUMBERS			COL-D-333100-10-4		



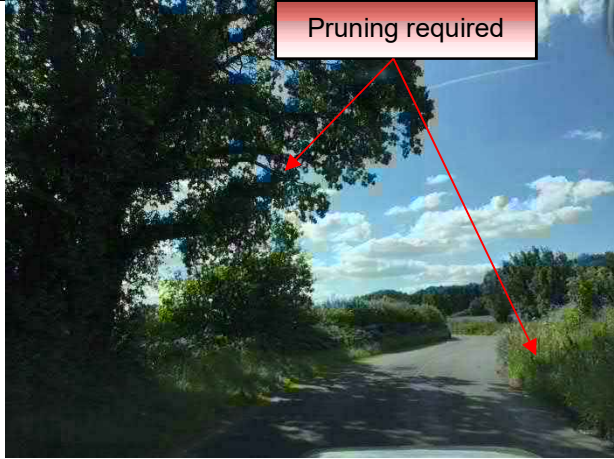

ITEM NUMBER	6.6.6		LOCATION	RIGHT BEND ON LOVEDEAN LANE	
DIRECTION	Continue straight at this location				
GRID REFERENCE	SU 68900 12105				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that modifications to street furniture will be required at this location.</p> <p>Bollards on the splitter island to be removed to allow trailer oversail.</p>					
			Approaching right bend		
					
			Reverse view of vehicle direction		
					
Aerial View of Location					
FURTHER INVESTIGATION UNDERTAKEN?			YES	TYPE	Swept Path Analysis
RELATED DOCUMENT NUMBERS			COL-D-333100-10-5		

6.7. Map extract of survey locations



ITEM NUMBER	6.7.1	LOCATION	LOVEDEAN LANE/DAY LANE JUNCTION
DIRECTION	Turn left at this junction		
GRID REFERENCE	SU 68375 13325		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that modifications to street furniture on the nearside will be needed at this location,</p> <p>Road sign to be removed to allow the vehicle to oversail land on the nearside of the bend.</p> <p>Trailer to be raised to oversail area.</p> <p>**NOTE** From this junction to the junction with Broadway Lane, there is an incline in the road levels.</p> <p>It is anticipated that a towing vehicle(s) will be required on this stretch of road.</p>		 <p style="text-align: center;">Direction</p> <p style="text-align: center;">Vehicle Direction</p>	
		 <p style="text-align: center;">Street sign to be removed</p> <p style="text-align: center;">Reverse view of junction</p>	
 <p style="text-align: center;">Aerial View of Location</p>			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept Path Analysis
RELATED DOCUMENT NUMBERS	COL-D-333100-10-6		

ITEM NUMBER	6.7.2		LOCATION	RIGHT BEND ON DAY LANE	
DIRECTION	Continue straight at this location				
GRID REFERENCE	SU 68227 13211				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
Visual inspection indicates that pruning will be required on both sides of the road.					
			View of approaching right bend		
					
Pruning of trees before right bend			Vehicle Direction		
					
Aerial View of Location					
FURTHER INVESTIGATION UNDERTAKEN?			NO	TYPE	N/A
RELATED DOCUMENT NUMBERS			N/A		

ITEM NUMBER	6.7.3		LOCATION	S-BEND ON DAY LANE	
DIRECTION	Continue straight at this location				
GRID REFERENCE	SU 67975 13207				
MODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
Visual inspection indicates that pruning will be required on both sides of the road at this location.					
			View of approaching S-Bend		
					
Vehicle Direction		View of S-Bend			
					
Aerial View of Location					
FURTHER INVESTIGATION UNDERTAKEN?		NO	TYPE	N/A	
RELATED DOCUMENT NUMBERS		N/A			

ITEM NUMBER	6.7.4	LOCATION	DAY LANE/PROPOSED ACCESS TRACK JUNCTION	
DIRECTION	Continue straight at this location			
GRID REFERENCE	SU 67788 13245			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>OPTION 1 – COL-D-333100-10-7 Swept path analysis indicates that hedgerow on the nearside to be removed and cleared to allow the girder set to navigate onto the road. New access as per drawing required and modifications undertaken to accommodate this.</p> <p>OPTION 2 – COL-D-333100-10-8 Swept path analysis indicates that new track to be constructed through third party land on the nearside. Hedgerow to be removed to allow new track to be constructed. New access as per drawing required and modifications undertaken to accommodate this.</p> <p>GENERAL Both these options are considered to be more cost effective and less disruptive than creating a transhipment area in land on the nearside at the Solar frame.</p> <p>Both these options allow for the load to be transported to the final destination without the need to tranship to a SPMT vehicle or similar.</p>		 <p>View of proposed access track junction</p>  <p>View of proposed access track entrance</p>		
 <p>Aerial View of Location</p>				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	SWEPT PATH ANALYSIS
RELATED DOCUMENT NUMBERS		COL-D-333100-10-7/8		

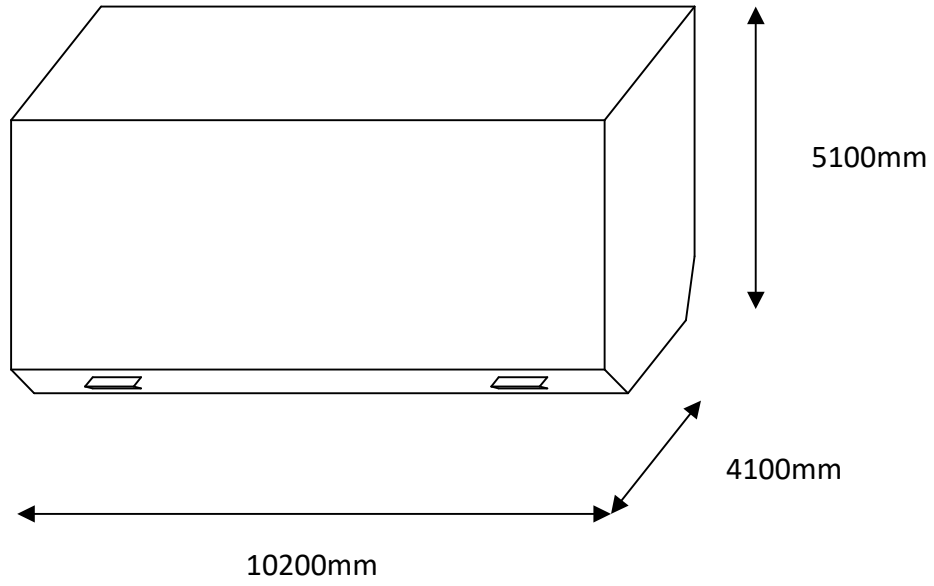
7. Important Notes

- 7.1. The recommendations in this report are made from a purely transport orientated view, and do not consider any political issues in terms of land ownership, or any other precincts raised that may otherwise be restrictive.
- 7.2. The information contained in this report is privileged and confidential and is for the exclusive use of the client nominated herein.
- 7.3. A Police escort or pilot car will be required in order to assist with traffic control for the entire route surveyed.
- 7.4. Permits will be required for the movement of all loads. These permits are at the discretion of the Highways Agency (H.A). Therefore, approval of these permits by the H.A is a major consideration before any movements can be undertaken.
- 7.5. It is recommended to have adequate warning signs implemented to warn other road users at critical points.
- 7.6. All hedges, shrubs, bushes, trees and overhanging branches along the nominated routes must be trimmed to allow a suitable minimum envelope.
- 7.7. All street furniture, signage etc. along the nominated route must be removed to allow a suitable minimum envelope on the road. Other specific street furniture has been nominated in this report to facilitate over-sailed and swept areas.
- 7.8. Overhead utility cables have not been measured as part of this survey and correspondence with the utility companies regarding cable heights and possible remedial solutions should be undertaken prior to any delivery.
- 7.9. It should be noted that all assessments and inspections have been done so with the intention of producing information to highlight anticipated problems. This includes highlighting of potential land take requirements, possible street furniture implications, and highway alignment issues.
- 7.10. Land take is usually referred to when land is required from private land owners; road widening is usually referred to when land is required within highways boundaries. However the details of the nominated land take and road widening contained in this report are highlighting the expected areas of concern, and can only be confirmed by swept path analysis. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- 7.11. All inspections and assessments are made for the road movement of loaded trailer equipment carrying specific storage tank components. These dimensions are based on the turning circles and specification of Collett & Sons trailer equipment.
- 7.12. All route inspections and assessments, and subsequent conclusions and recommendations are deemed accurate by Collett & Sons Limited at the date that this report is created. We cannot be held responsible for the development of future road schemes or alterations to the routes surveyed that may leave this report inaccurate.
- 7.13. This report is based solely on a preliminary visual inspection. Nothing in this report shall be construed in any way as committing Collett & Sons Limited to being able to deliver to site using this route before further structural analysis has been undertaken, and any accommodation/remedial works undertaken which are to Collett & Sons satisfaction.

APPENDIX 1

TRANSFORMER DRAWING

Estimated Transformer Dimensions

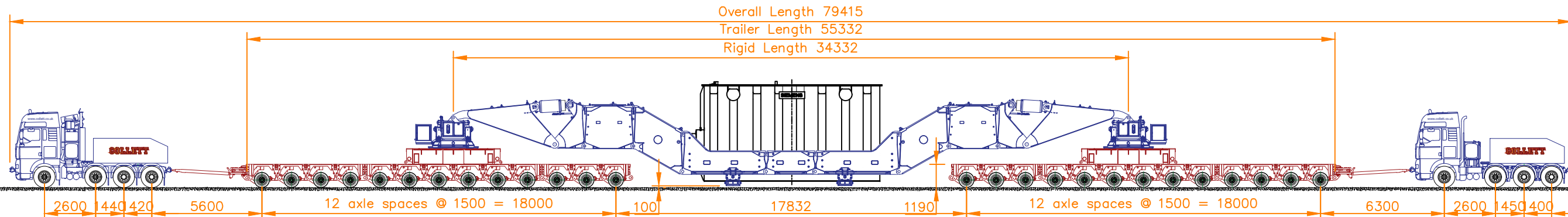


Shipping mass 332000 Kg

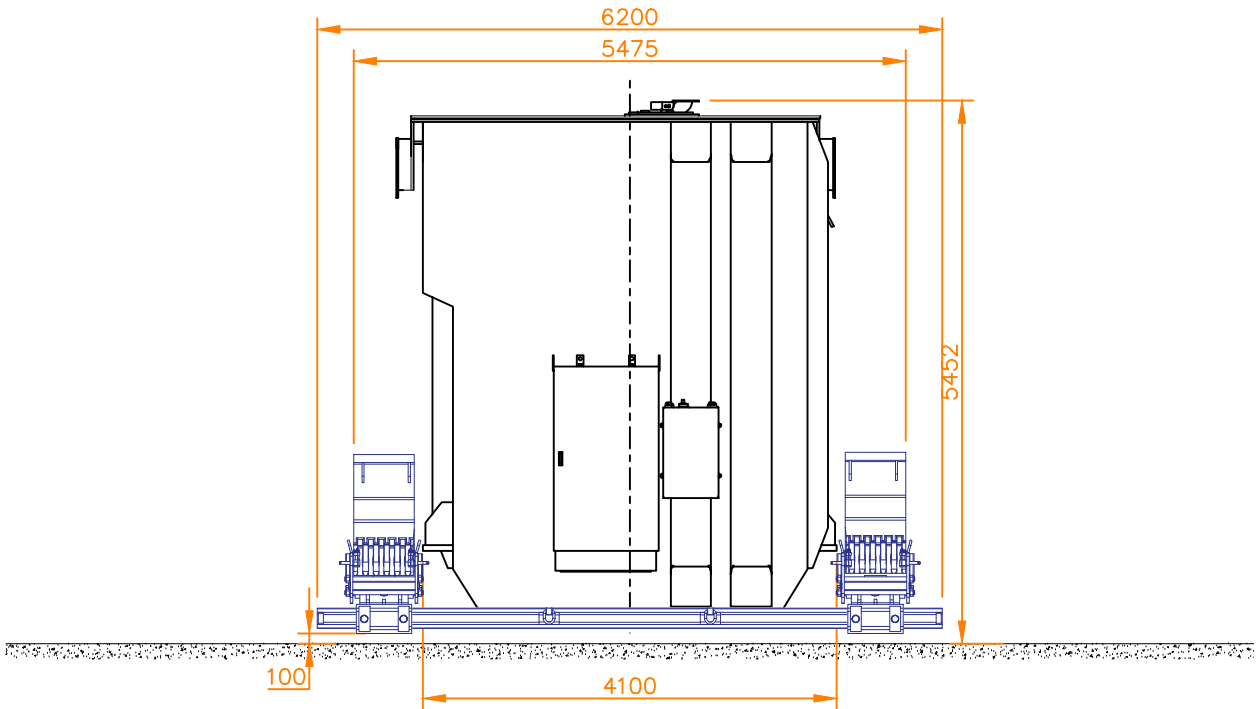
APPENDIX 2

LOADED CONFIGURATION DRAWING

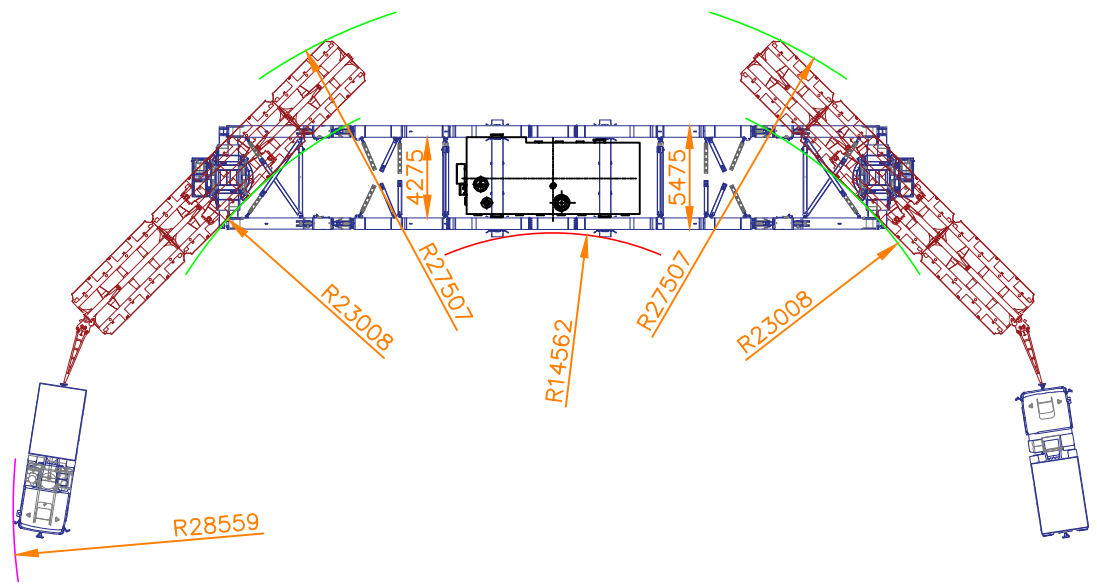
SIDE ELEVATION VIEW. SCALE 1:225



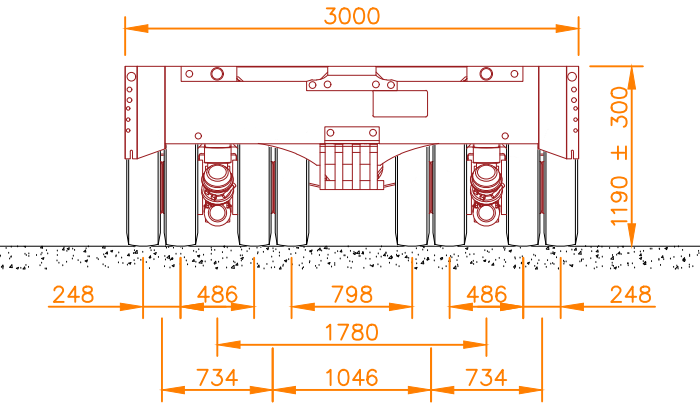
TRAF0 ON BEAMS REAR ELEVATION VIEW. SCALE 1:75



TURNING PLAN VIEW. SCALE 1:400



END ELEVATION VIEW OF MODULAR AXLES. SCALE 1:50



Weights Table		
Type	Description	Weight
Type of Trailer	13 Axle Girder Set 13 Axle	160.820 t
Type of Load	Transformer	332.000 t
	Total loaded weight excluding tractor units	492.820 t
	Load per axle line on trailer	15.275 t
	Load per axle per file	7.638 t
	Load per wheel on trailer	1.909 t
Abnormal Load Classification: Special Order (BE16)		

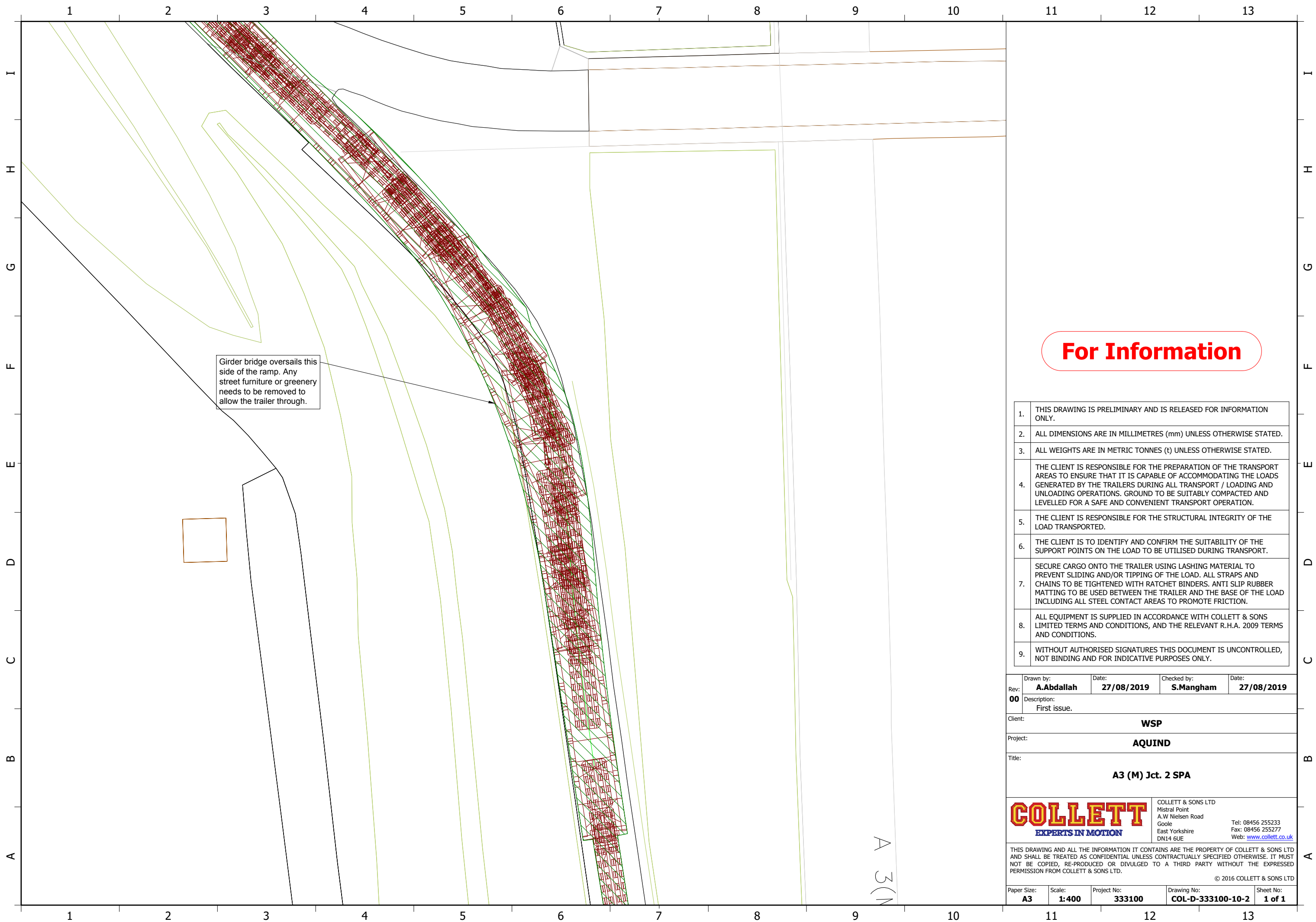
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- ALL WEIGHTS ARE IN METRIC TONNES (t) UNLESS OTHERWISE STATED.
- THE CLIENT IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE LOAD TRANSPORTED.
- THE CLIENT IS TO IDENTIFY AND CONFIRM THE SUITABILITY OF THE SUPPORT POINTS ON THE LOAD TO BE UTILISED DURING TRANSPORT.
- ALL EQUIPMENT IS SUPPLIED IN ACCORDANCE WITH COLLETT & SONS LIMITED TERMS AND CONDITIONS, AND THE RELEVANT R.H.A. 2009 TERMS AND CONDITIONS.
- WITHOUT AUTHORISED SIGNATURES THIS DOCUMENT IS UNCONTROLLED, NOT BINDING AND FOR INDICATIVE PURPOSES ONLY.

Drawn by:	Date:	Checked by:	Date:
Rev: 00	A.Abdallah	27/08/2019	E.Crosby
Description: First issue.			
Client:		WSP	
Project:		AQUIND	
Title: Transformer Transport Arrangement			
COLLETT EXPERTS IN MOTION		COLLETT & SONS LTD Mistral Point A.W Nielsen Road Goole East Yorkshire DN14 6UE Tel: 08456 255233 Fax: 08456 255277 Web: www.collett.co.uk	
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A3	As Noted	333100	COL-D-333100-1-1
			Sheet No: 1 of 1

APPENDIX 3

SWEPT PATH ANALYSIS DRAWINGS



For Information

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3. ALL WEIGHTS ARE IN METRIC TONNES (t) UNLESS OTHERWISE STATED.
4. THE CLIENT IS RESPONSIBLE FOR THE PREPARATION OF THE TRANSPORT AREAS TO ENSURE THAT IT IS CAPABLE OF ACCOMMODATING THE LOADS GENERATED BY THE TRAILERS DURING ALL TRANSPORT / LOADING AND UNLOADING OPERATIONS. GROUND TO BE SUITABLY COMPACTED AND LEVELLED FOR A SAFE AND CONVENIENT TRANSPORT OPERATION.
5. THE CLIENT IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE LOAD TRANSPORTED.
6. THE CLIENT IS TO IDENTIFY AND CONFIRM THE SUITABILITY OF THE SUPPORT POINTS ON THE LOAD TO BE UTILISED DURING TRANSPORT.
7. SECURE CARGO ONTO THE TRAILER USING LASHING MATERIAL TO PREVENT SLIDING AND/OR TIPPING OF THE LOAD. ALL STRAPS AND CHAINS TO BE TIGHTENED WITH RATCHET BINDERS. ANTI SLIP RUBBER MATTING TO BE USED BETWEEN THE TRAILER AND THE BASE OF THE LOAD INCLUDING ALL STEEL CONTACT AREAS TO PROMOTE FRICTION.
8. ALL EQUIPMENT IS SUPPLIED IN ACCORDANCE WITH COLLETT & SONS LIMITED TERMS AND CONDITIONS, AND THE RELEVANT R.H.A. 2009 TERMS AND CONDITIONS.
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Rev:	A.Abdallah	Date:	27/08/2019	Checked by:	S.Mangham
				Date:	27/08/2019
Description: First issue.					

Client: **WSP**

Project: **AQUIND**

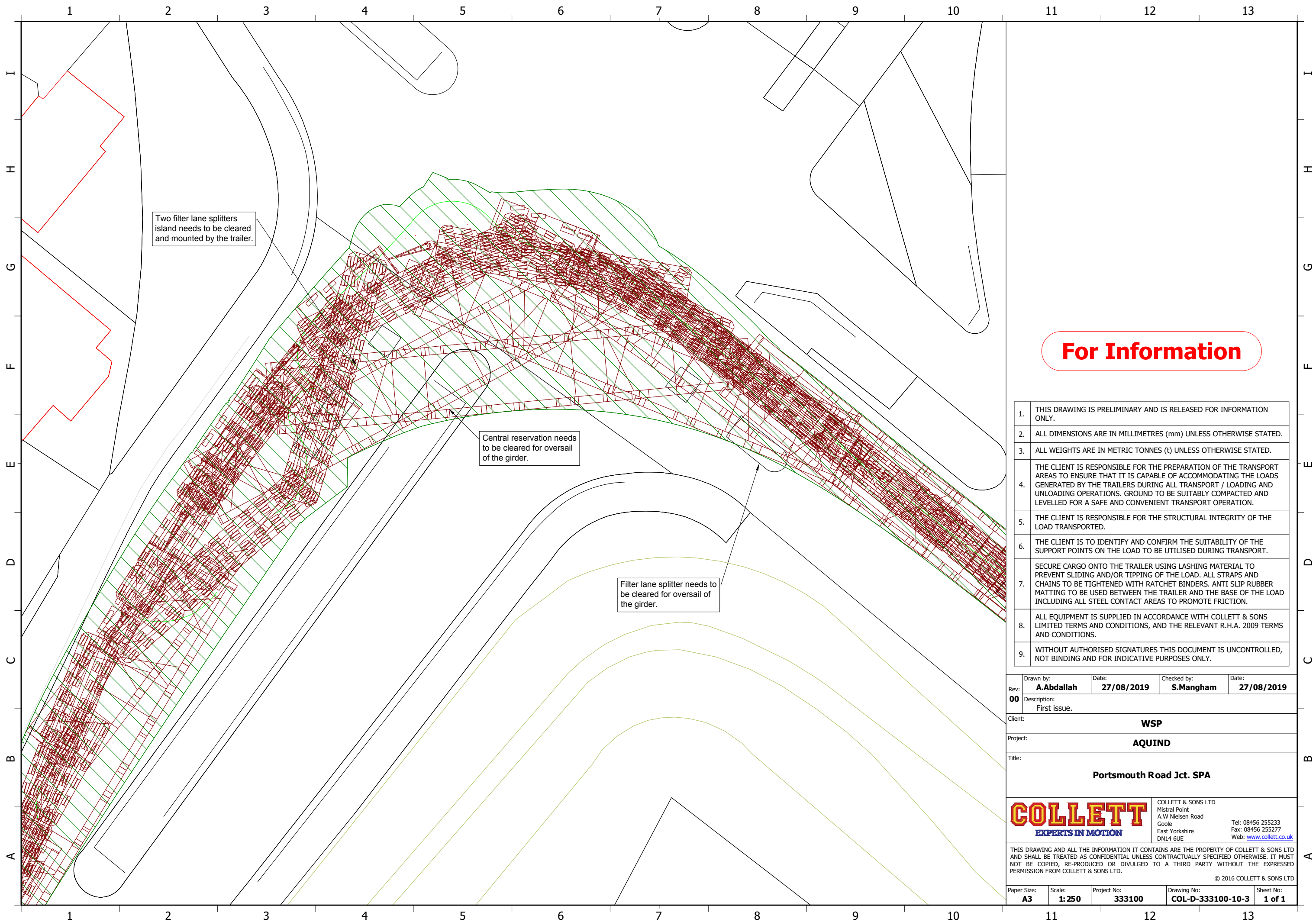
Title: **A3 (M) Jct. 2 SPA**

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A3	1:400	333100	COL-D-333100-10-2	1 of 1

A 3(N)



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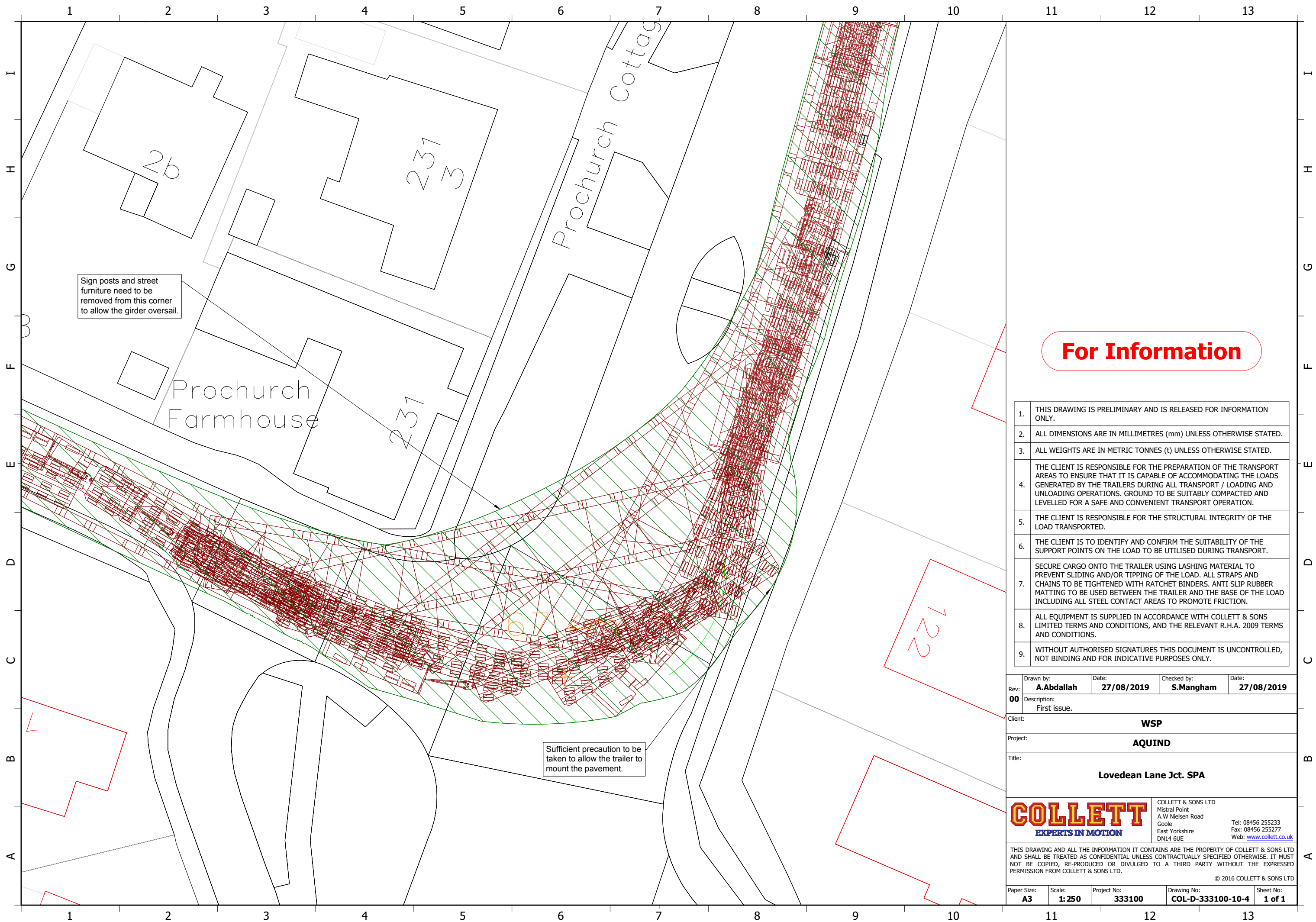
Rev:	A.Abdallah	Date:	27/08/2019
		Checked by:	S.Mangham
		Date:	27/08/2019
Description: First issue.			

Client: **WSP**

Project: **AQUIND**

Title: **Portsmouth Road Jct. SPA**

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Rev:	Description:		
00	First issue.		

Client:	WSP
Project:	AQUIND
Title:	Lovedean Lane Jct. SPA

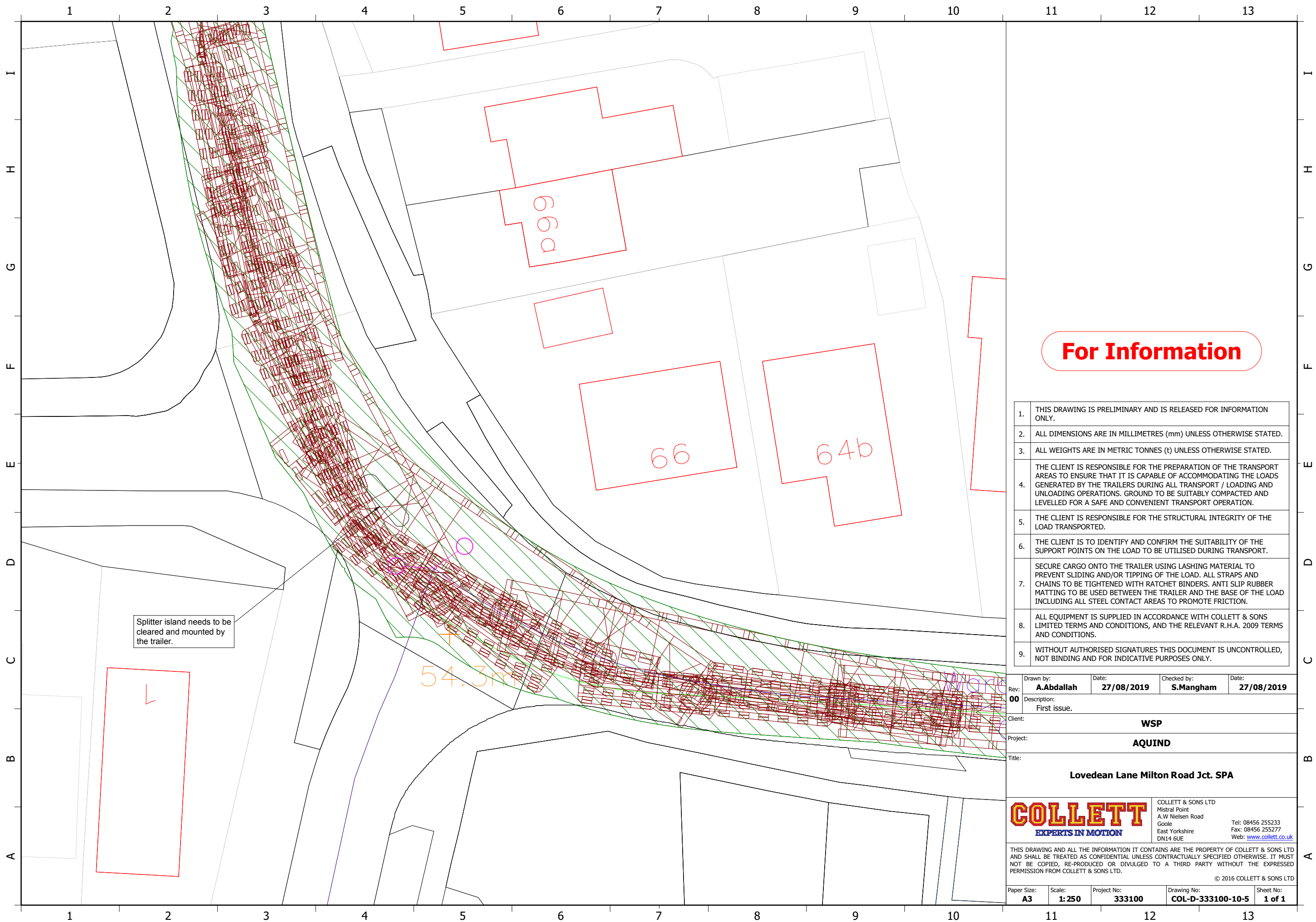
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EXPERTS IN MOTION

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Goole
East Yorkshire
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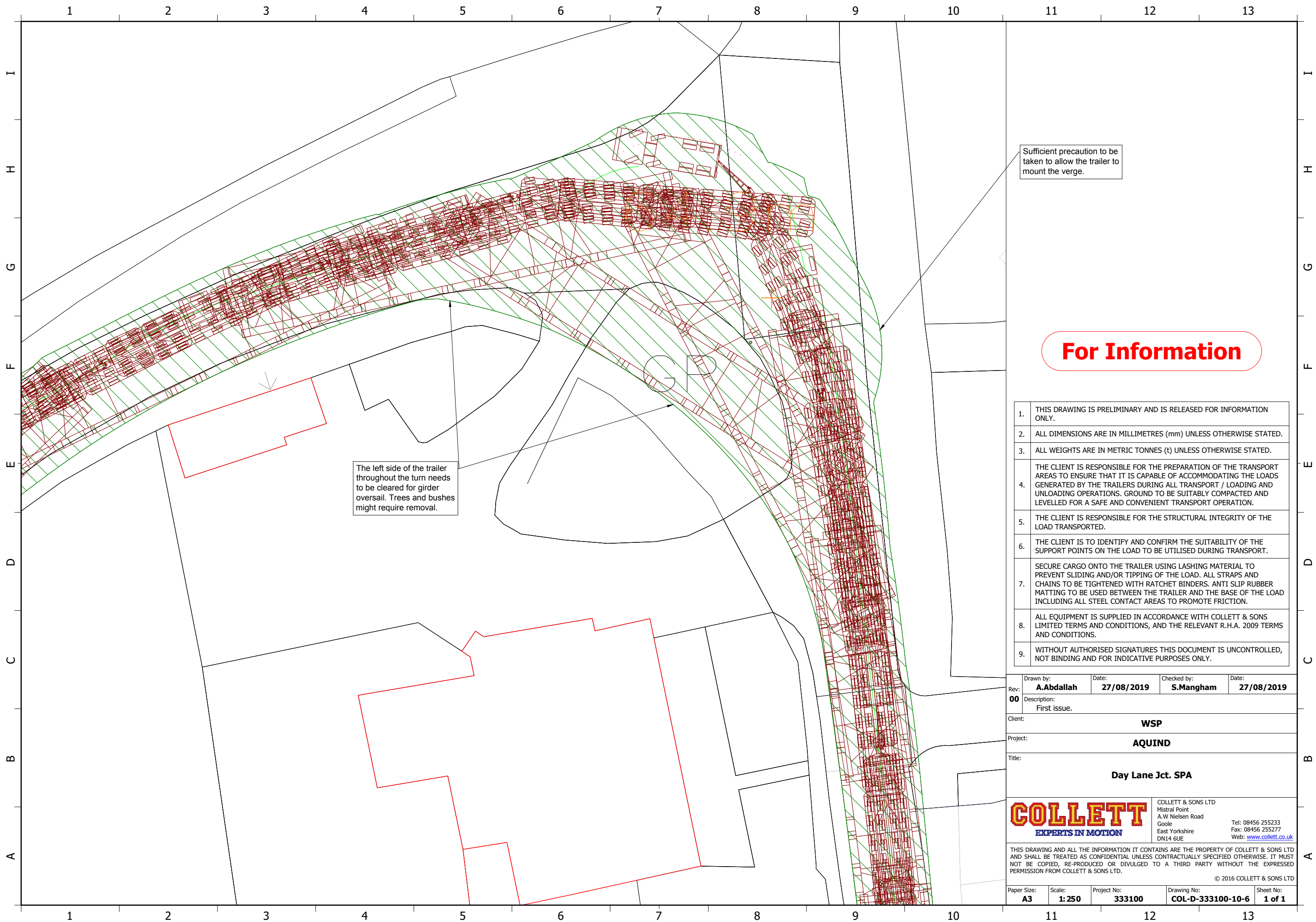
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Description: First issue.			

Client: WSP
Project: AQUIND
Title: Lovedean Lane Milton Road Jct. SPA

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Sufficient precaution to be taken to allow the trailer to mount the verge.

The left side of the trailer throughout the turn needs to be cleared for girder oversail. Trees and bushes might require removal.

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Client: **WSP**

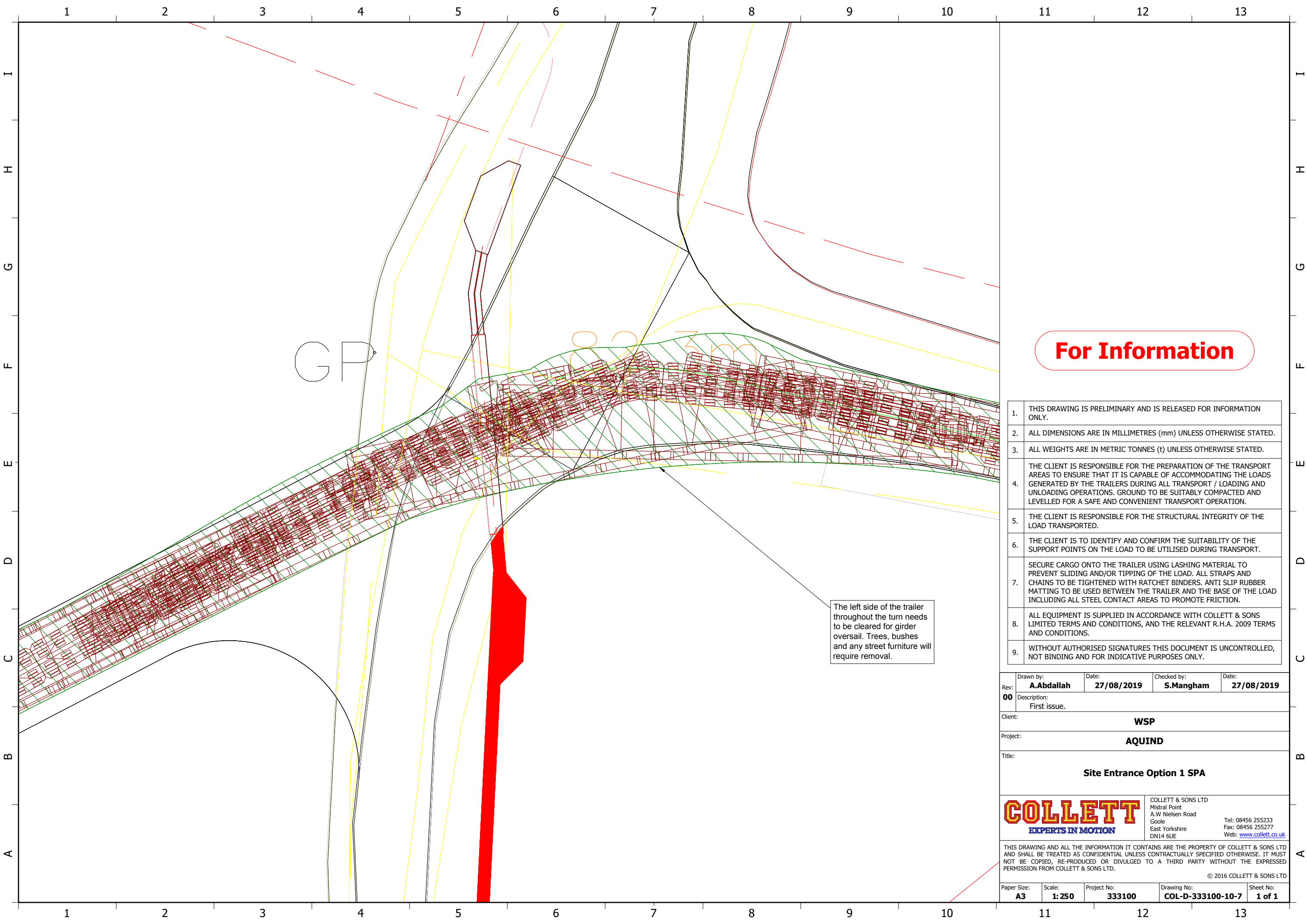
Project: **AQUIND**

Title: **Day Lane Jct. SPA**

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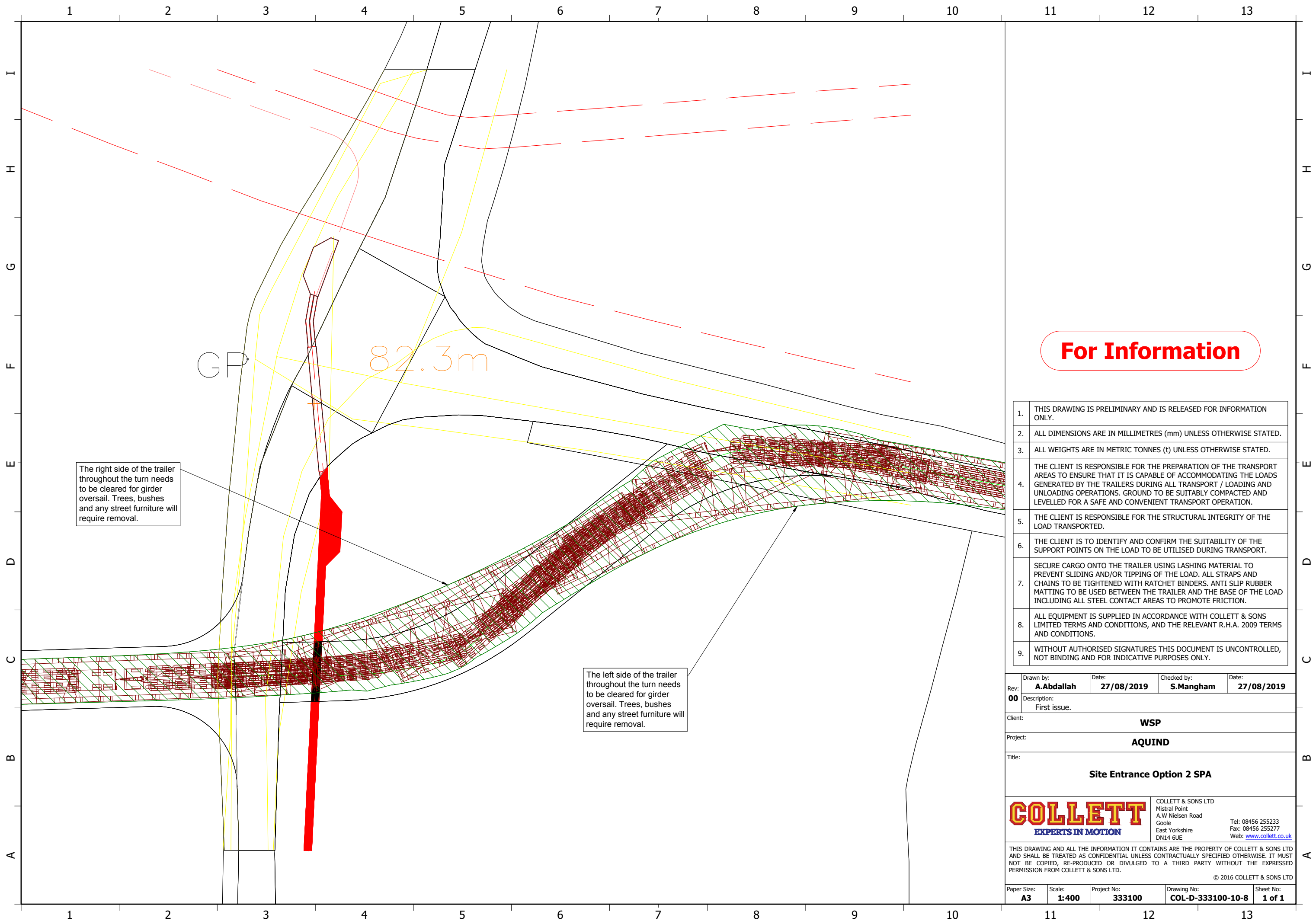
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Client:	WSP
Project:	AQUIND
Title:	Site Entrance Option 1 SPA

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For Information

The right side of the trailer throughout the turn needs to be cleared for girder oversail. Trees, bushes and any street furniture will require removal.

The left side of the trailer throughout the turn needs to be cleared for girder oversail. Trees, bushes and any street furniture will require removal.

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Project: **AQUIND**

Title: **Site Entrance Option 2 SPA**

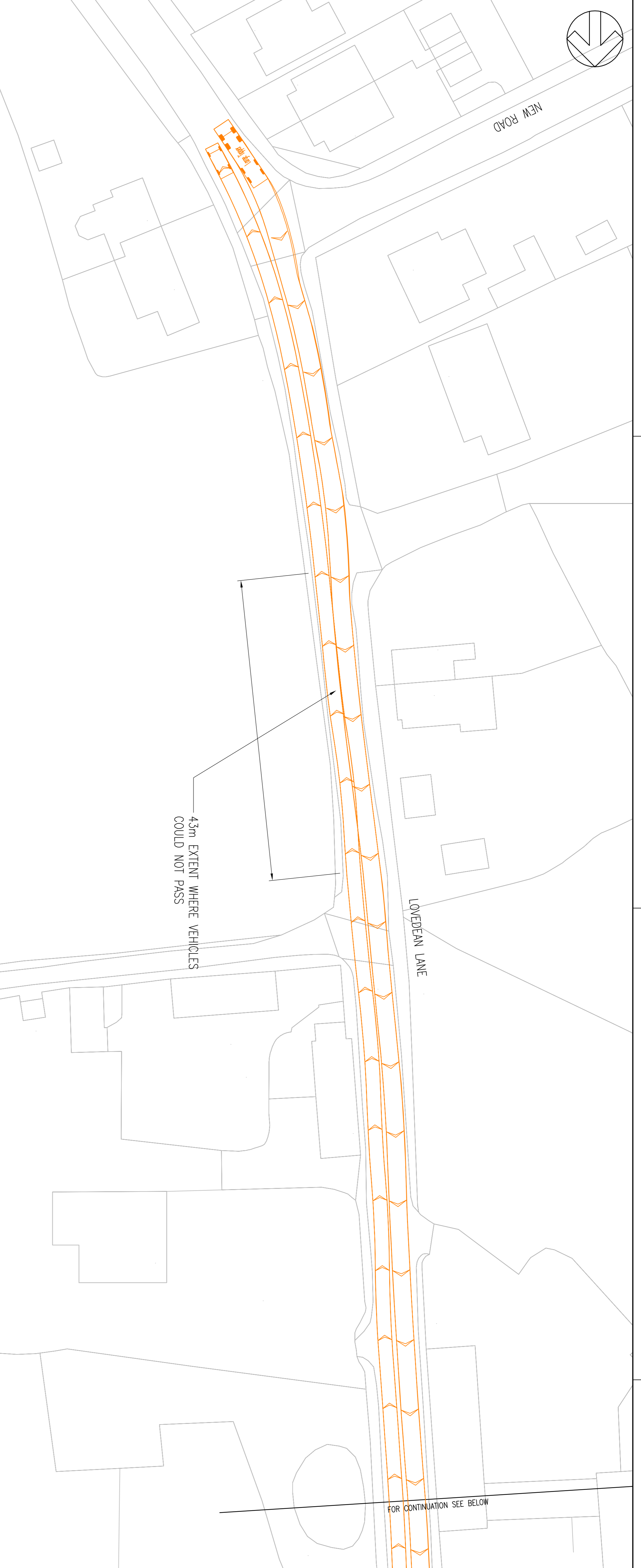
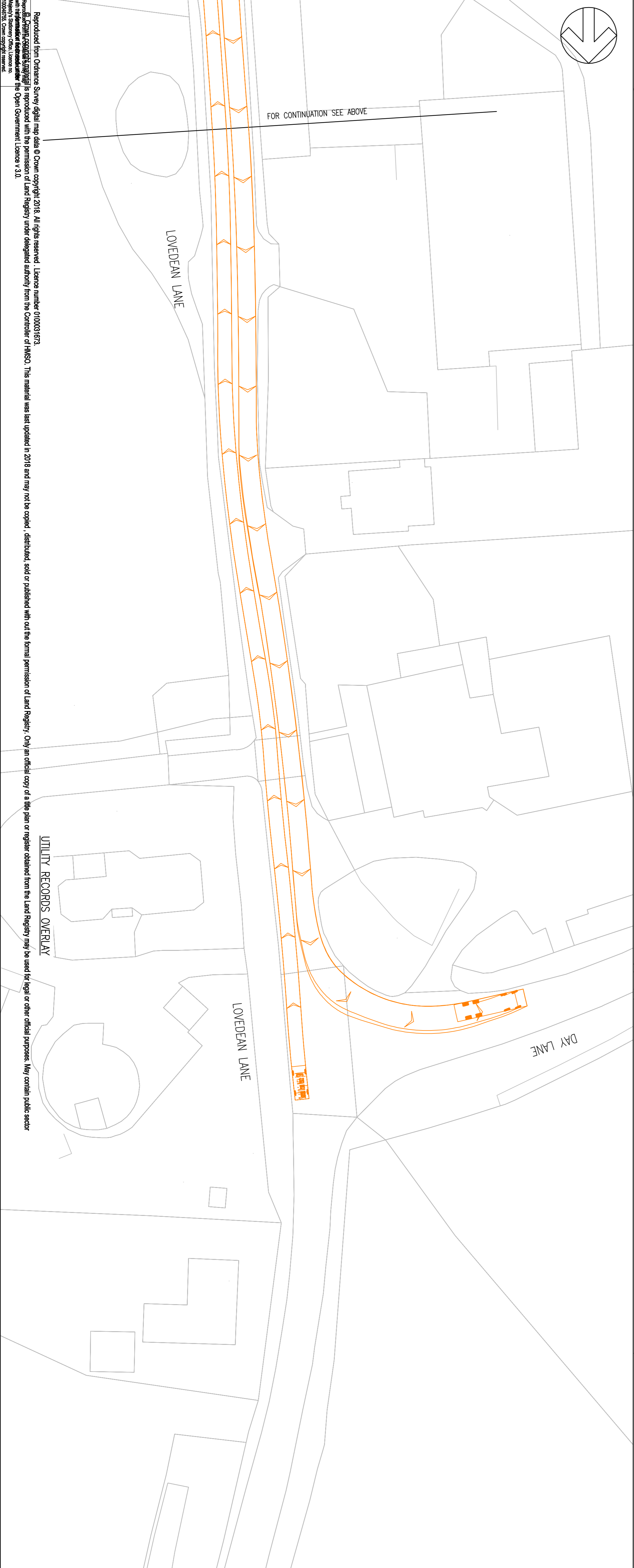
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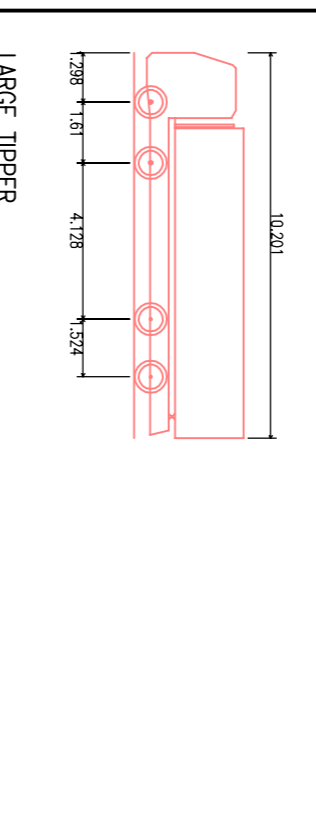
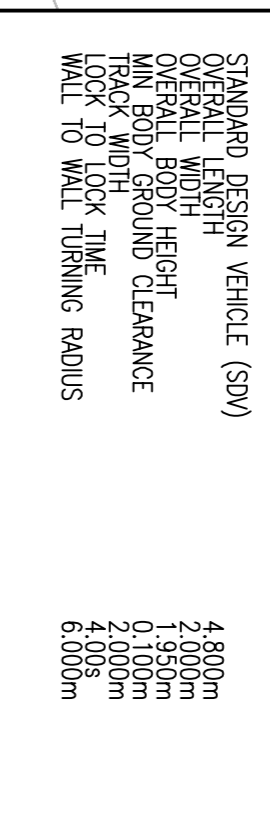
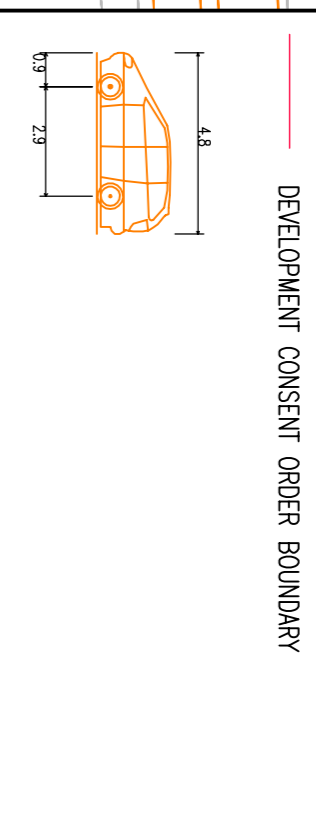
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A3	1:400	333100	COL-D-333100-10-8	1 of 1

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Appendix 6 – Swept Path Analysis



- NOTES**
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 3. VEHICLES TRACKED AT 10mph.
 4. TRACKING IS BASED ON OS MAPPING DATA. THIS MAY BE INACCURATE AND THE AVAILABLE CARRIAGEWAY MAY BE WIDER OR NARROWER THAN INDICATED.



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01	26/10/2019	MB	FIRST ISSUE	MB	MB

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WSP

Groundwork House, 2 Grosvenor Square, Southampton, SO16 2BE, UK
T+44 (0)2381 101 700
wsp.com

AQUIND

AQUIND Interconnector

**LOVEDEAN LANE
FOUR AXLE TIPPER TRACKING
SHEET 1 OF 1**

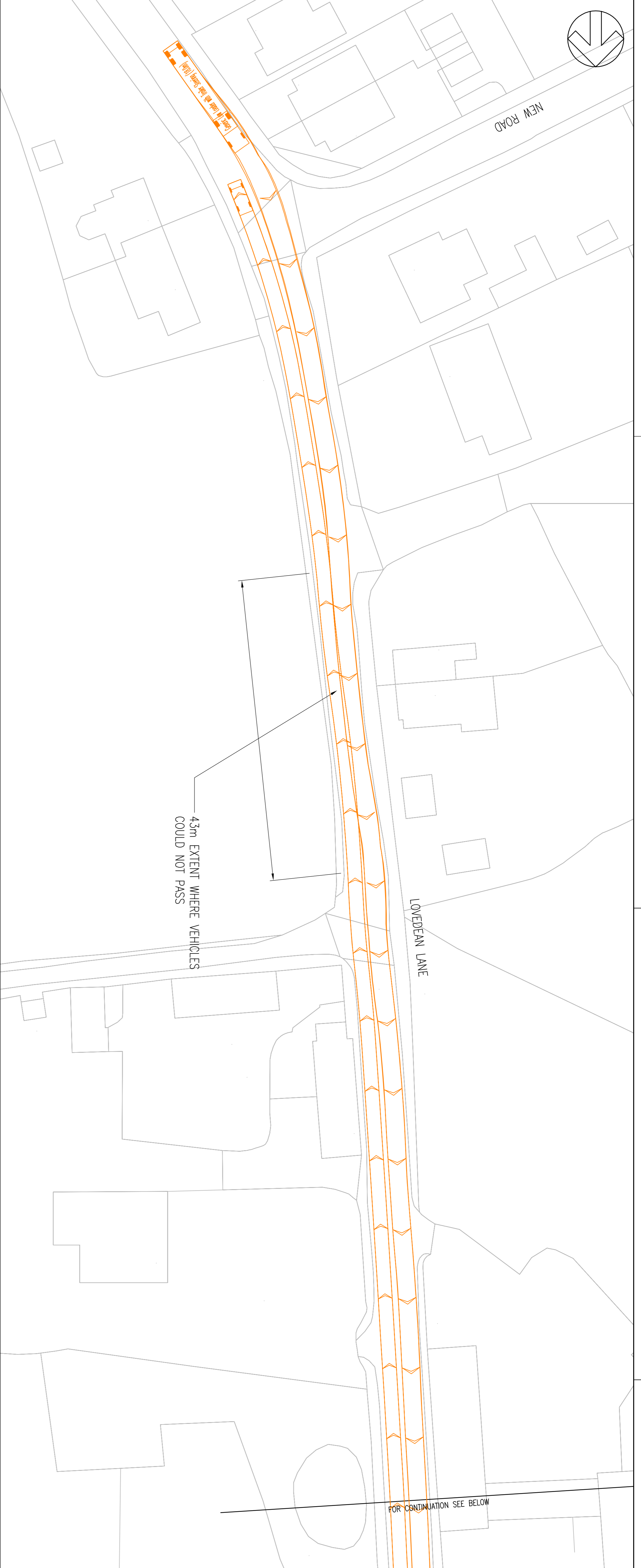
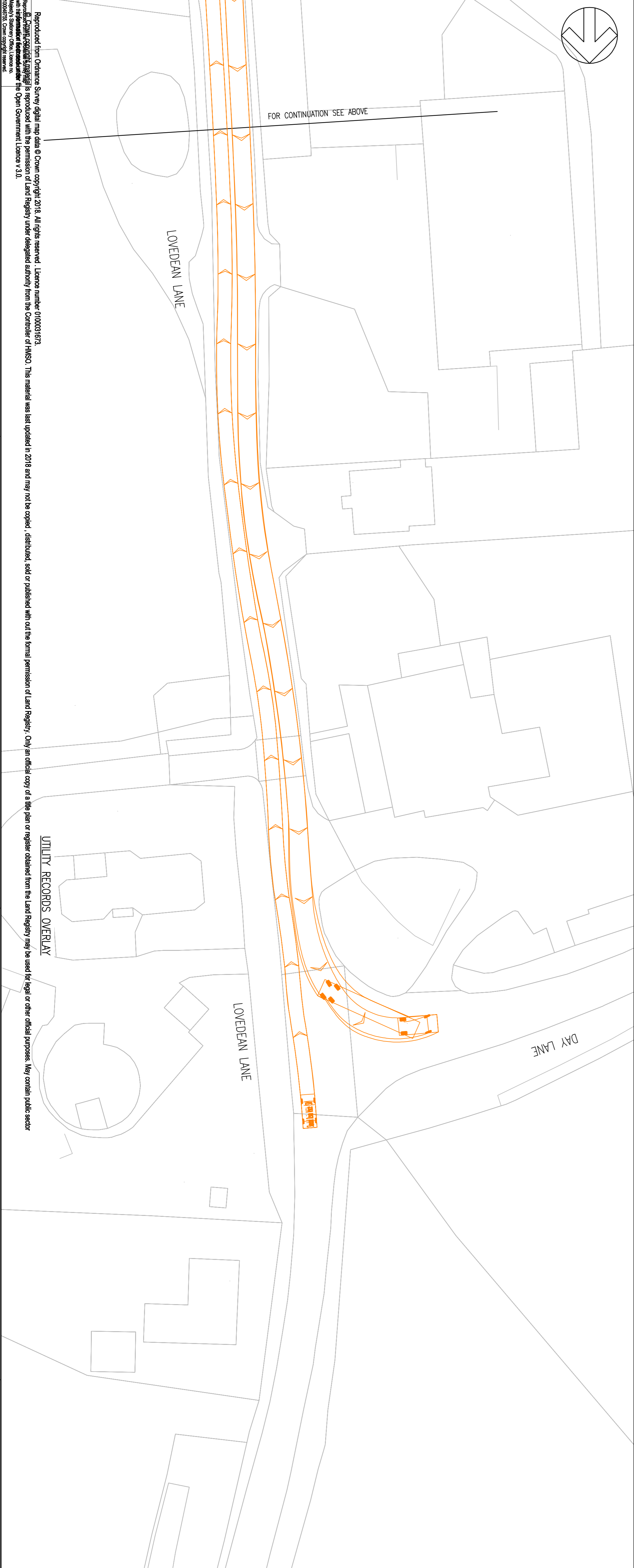
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DESIGNED	DP	APPROVED	DP
DRAWN	MB	CHECKED	MB
DATE:	26/10/2019	DATE:	26/10/2019

PROJECT NO: AQP-WSP-UK-OS-DR-Z-200215

DRAWING NO: 01

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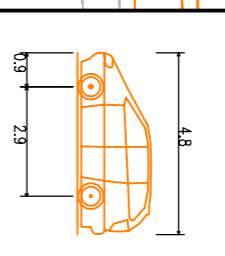


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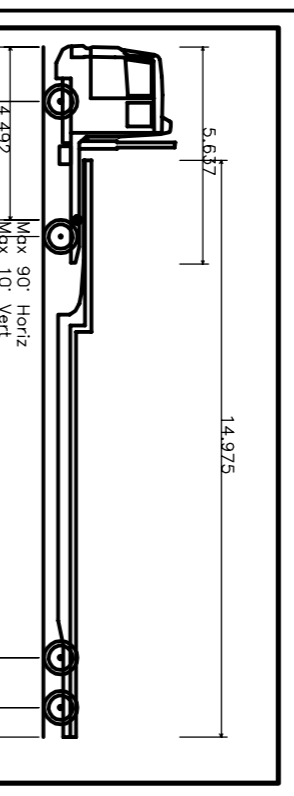
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3. VEHICLES TRACKED AT 10mph.
4. TRACKING IS BASED ON OS MAPPING DATA. THIS MAY BE INACCURATE AND THE AVAILABLE CARRIAGEWAY MAY BE WIDER OR NARROWER THAN INDICATED.

KEY

— DEVELOPMENT CONSENT ORDER BOUNDARY



STANDARD DESIGN VEHICLE (SDV)
 OVERALL LENGTH 4.800m
 OVERALL WIDTH 2.300m
 OVERALL BODY HEIGHT 1.950m
 MIN. BODY GROUND CLEARANCE 0.100m
 LOCK TO LOCK TIME 4.000s
 WALL TO WALL TURNING RADIUS 6.000m



Generic Low Loader with Trailer Steering
 Overall Length 14.425m
 Overall Width 5.617m
 Overall Body Height 1.4302m
 Min. Body Ground Clearance 0.332m
 Lock to Lock Time 6.000s
 Kerb to Kerb Turning Radius 6.3350m

Infrastructure Planning Applications: Prescribed Forms & Procedure (Regulations 2009 - Regulation 5(2)(b))

REV	DATE	BY	DESCRIPTION	CHK	APP
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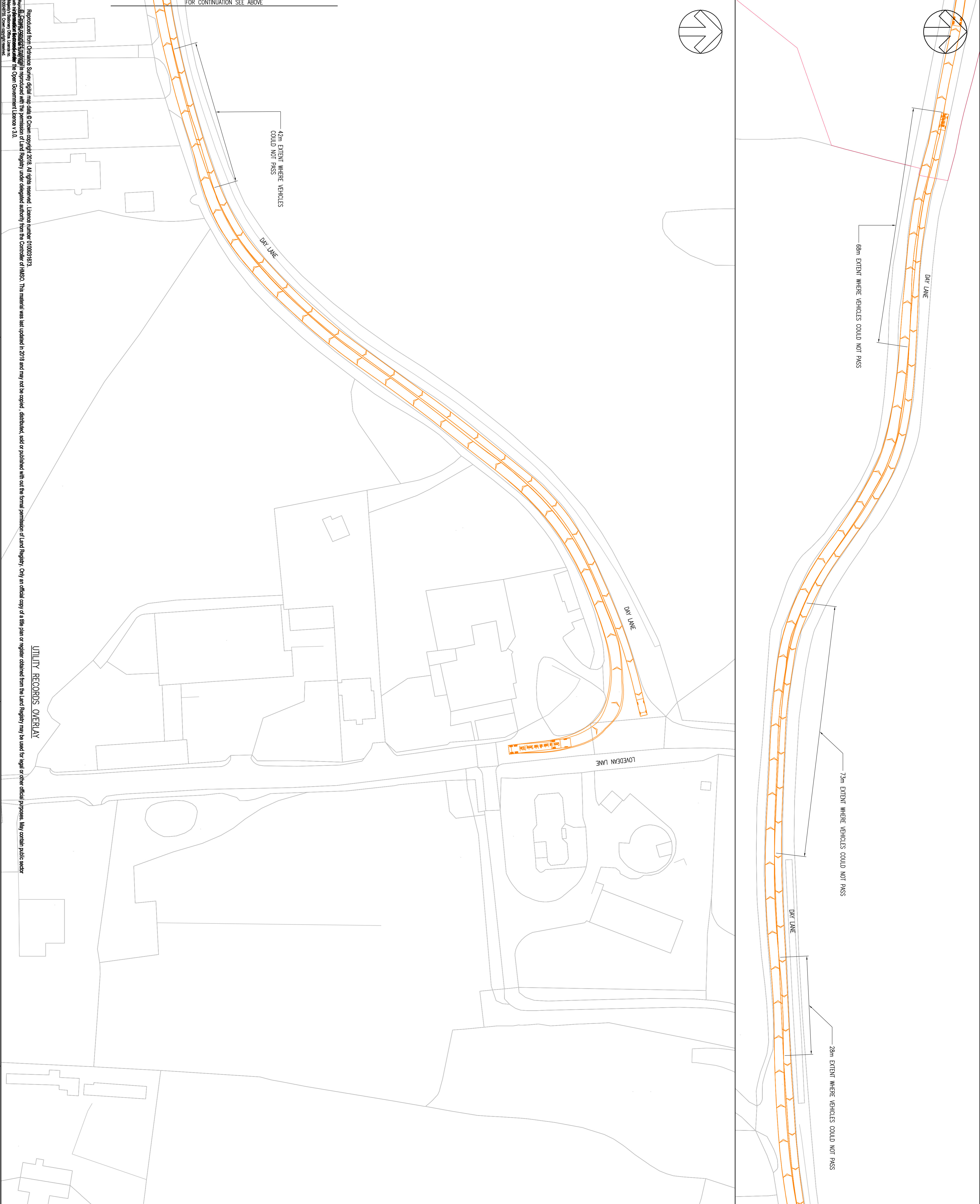
AQUIND Interconnector

**LOVEDEAN LANE
 LOW LOADER TRACKING
 SHEET 1 OF 1**

SCALE	DATE	DESIGNED	DRAWN	CHECKED	DATE
1:500	26/10/2019	MB	MB	MB	26/10/2019

PROJECT: AQUIND Interconnector
 SHEET: 01

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- VEHICLES TRACKED AT 10mph.
- TRACKING IS BASED ON OS MAPPING DATA. THIS MAY BE INACCURATE AND THE AVAILABLE CARRIAGEWAY MAY BE WIDER OR NARROWER THAN INDICATED.

KEY

— DEVELOPMENT CONSENT ORDER BOUNDARY

STANDARD DESIGN VEHICLE (SDV)

OVERALL LENGTH 4.900m
OVERALL WIDTH 2.400m
OVERALL HEIGHT 1.950m
MAIN BODY HEIGHT 1.100m
MAX BODY GROUND CLEARANCE 0.100m
MAX LOCK TO LOCK TIME 4.000m
MAX LOCK TO WALL TURNING RADIUS 6.000m

Generic Low Loader with Trailer Steering (18.0m)

Overall Length 11.358m
Overall Width 3.5m
Overall Height 4.317m
Max Body Ground Clearance 0.3520m
Max Track Width 2.520m
Lock to lock time 6.000m
Kerb to kerb turning Radius 6.3500m

REVISIONS

NO	DATE	BY	DESCRIPTION	CHK	APP
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INTRODUCTION Planning Applications Prescribed Forms & Procedure (Regulations 2009 - Regulation 3(2)(b))

CLIENT: Aquind

PROJECT: AQUIND Interconnector

SCALE: 1:500

TITLE: DAY LANE LOW LOADER TRACKING SHEET 1 OF 1

DATE: 26/10/2019

PROJECT NO: ACD-WSP-UK-OS-DR-Z-200215

DRAWING NO: 01

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