



**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

## **Environmental Statement – Volume 3 – Appendix 22.2 Framework Construction Traffic Management Plan**

The Planning Act 2008

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

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

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**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

Environmental Statement – Volume 3 –  
Appendix 22.2 – Framework Construction  
Traffic Management Plan

**PINS REF.: EN020022**

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## DOCUMENT

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# 1. INTRODUCTION

## 1.1. OVERVIEW

1.1.1.1. This document sets out the proposed construction traffic arrangements and mitigation measures associated with the Onshore Components of the ~~AQUIND Interconnector project~~ Proposed Development. The terminology used in this document is consistent with that used in the Glossary (~~document reference 1.7~~ submitted alongside this Construction Traffic Management Plan ('CTMP') APP-006 Rev 002). For ease of reference, the Glossary terms relevant to this document are repeated below.

**Table 1 - CTMP Glossary**

Term	Definition
<del>Abnormal Indivisible Load</del>	An Abnormal <del>Indivisible Load</del> ('AIL') is a vehicle that has any of the following: a mass of more than 44,000 kilograms ('kg'), an axle load of more than 10,000 kg for a single non-driving axle and 11,500 kg for a single driving axle, a width of more than 2.9 m ('m'), a rigid length of more than 18.65 m.
<del>HVAC Cable</del> <u>Abnormal Indivisible Load</u>	<del>The Cable designed to transfer power using High Voltage Alternating Current (HVAC) at a nominal voltage of 400 kV, which will connect Lovedean Substation to the Converter Station.</del> <u>An Abnormal Indivisible Load (AIL) is a load which can't be divided into two or more loads to be transported by road.</u>
<del>HVAC Cable Route</del>	<del>The final refined route for the HVAC Cable that lies within the HVAC Cable Corridor.</del>
<del>HVAC Cable Corridor</del>	<del>The area within which the HVAC Cable Route and all associated Temporary Works will be located.</del>



Term	Definition
<b>Access Road</b>	The permanent road that will be constructed to facilitate vehicular access to the Converter Station from the existing highway network.
<b>AQUIND Interconnector</b>	The Project.
<b>Cable Joint</b>	The components required to connect together two sections of Cable.
<b>Cables</b>	Insulated metallic electrical conductors used for the transfer of power.
<b>Construction Environmental Management Plan (CEMP)</b>	Document setting out methods to avoid, minimise and mitigate Impact on the environment and surrounding area and the protocols to be followed in implementing these measures in accordance with environmental commitments during the Construction Stage.
<b>Converter Station</b>	The fenced compound, adjacent to Lovedean Substation, comprising the necessary equipment to convert AC to Direct Current ('DC') and vice versa.
<b>Converter Station Area</b>	This is the area of land identified to accommodate:

Term	Definition
	<ul style="list-style-type: none"> <li>• <del>the</del> <u>The</u> Converter Station and associated equipment;</li> <li>• <del>the</del> <u>The</u> connection between the AC Cables and the National Electricity Transmission System ('NETS') at Lovedean Substation;</li> <li>• <del>the</del> <u>The</u> AC Cable Corridor to accommodate the AC Cables and Fibre Optic Cable ('FOC') between the Converter Station and Lovedean Substation;</li> <li>• <del>the</del> <u>The</u> High Voltage Direct Current ('HVDC') Cables and FOC corridor from the Converter Station southwards;</li> <li>• <del>a</del> <u>A</u> Works Compound and Laydown Area; Access Road and associated haul roads;</li> <li>• <del>surface</del> <u>Surface</u> water drainage and associated attenuation ponds;</li> <li>• <del>landscape</del> <u>Landscape</u> and ecology measures;</li> <li>• <del>utilities</del> <u>Utilities</u> such as potable water, electricity and telecom;</li> <li>• the compound comprising the Telecommunications Building(s) and associated equipment.</li> </ul>
<p><b>Development Consent Order (DCO)</b></p>	<p>A Development Consent Order ('DCO') is a statutory instrument made by the Secretary of State ('SoS') pursuant to the Planning Act 2008 (as amended) ('PA 2008')</p>

Term	Definition
<b>Direct Current (DC)</b>	A flow of continuous electrical current which flows in one direction.
<b>Ducted Installation</b>	An installation method where ducts are installed in the ground and cables are subsequently pulled into them.
<b>Fibre Optic Cable</b>	A telecommunications cable made from thin strands of glass fibre, which uses pulses of light to transfer data. Each Pole will have a FOC, which will be used to provide a dedicated communications link between the UK and French converter stations for the purposes of control, protection and monitoring of the Project. Capacity provided by strands that are not utilised for these functions will be available for third parties to purchase for other telecommunication purposes.
<b>Fibre Optic Cable (FOC) Infrastructure</b>	The physical infrastructure associated with the fibre optic telecommunication system. This includes:

Term	Definition
	<ul style="list-style-type: none"> <li>• Fibre Optic Cables;</li> <li>• up to two Optical Regeneration Stations (ORS) at the Landfall;</li> <li>• up to two Telecommunications Buildings in the vicinity of the Converter Station;</li> <li>• auxiliary power supply and fuel supply to buildings;</li> <li>• securely fenced compounds around buildings;</li> </ul> <p>access and parking to buildings.</p>
<b>Haul Road</b>	A temporary road constructed for use during the Construction Stage.
<b>Highway Boundary</b>	The area which is adopted road, maintained at public expense.
<b>Horizontal Directional Drilling (HDD)</b>	A trenchless technology that involves drilling into the ground to create a bore with a generally horizontal profile, along a planned pathway.
<u><b>HVAC Cable</b></u>	<u>The Cable designed to transfer power using High Voltage Alternating Current (HVAC) at a nominal voltage of 400 kV, which will connect Lovedean Substation to the Converter Station.</u>
<u><b>HVAC Cable Corridor</b></u>	<u>The area within which the HVAC Cable Route and all associated Temporary Works will be located.</u>
<u><b>HVAC Cable Route</b></u>	<u>The final refined route for the HVAC Cable that lies within the HVAC Cable Corridor.</u>

Term	Definition
<b>HVDC Cable</b>	The Cable designed to transfer power using High Voltage Direct Current (HVDC) at a nominal voltage of 320 kV. For the purpose of the Proposed Development, this comprises the Onshore Cable and the Marine Cable.
<b>HVDC Cable Corridor</b>	Comprises the Onshore Cable Corridor and the Marine Cable Corridor.
<del>HVAC Cable Route</del>	<del>The final refined route for the HVAC Cable that lies within the HVAC Cable Corridor.</del>
<b>HVDC Circuit</b>	One of two pairs of HVDC Cables, an associated Fibre Optic Cable (FOC), and any ancillaries, each of which will carry half of the specified rating.
<b>Interconnector</b>	An electrical system which provides the connection between electricity transmission systems, usually between areas over long distances or different frequencies.
<b>Joint Bay</b>  <del>(JB)</del>	The location where sections of Cable are connected together. Each Joint Bay will be an excavation containing two joints for the HVDC Cables that form a HVDC Circuit and, at some locations, a joint for the Fibre Optic Cable (FOC) and / or equipment for testing the cable sheaths, to ensure the performance of the Cables.
<b>Landfall</b>	The Landfall is the area where the Onshore Cable Corridor and Marine Cable Corridor meet and includes

Term	Definition
	the Transition Joint Bay (TJB), HDD compound and works where the Marine Cables come ashore, and the Optical Regenerations Stations (s) including their compounds and mitigations.
<b>Laydown Area</b>	Temporary area required during the Construction Stage of the Proposed Development for short-term storage of materials, which will be reinstated to its original state following demobilisation.
<b>Lovedean Substation</b>	The existing National Grid electrical substation located at Lovedean, Hampshire.
<b>Marine Components</b>	The Marine Components of the Proposed Development are all of that part below the Mean High Water Springs (MHWS).
<b>Micro-Tunnelling</b>	Driving tunnel sections, usually steel tubes or reinforced concrete section, in a straight line, between pits excavated on either side of the obstruction to be crossed. Hydraulic rams are used to drive the tunnel sections.
<b>Mitigation Measures</b>	Actions proposed to prevent, reduce and where possible, offset significant adverse Effects arising from the whole or specific elements of the Proposed Development.
<b>Onshore Cable</b>	The part of the HVDC Cable installed inland from the Mean High Water Springs (MHWS).

Term	Definition
<b>Onshore Cable Corridor</b>	The area within which the Onshore Cable Route and all associated Temporary Works will be located. This runs landward from the Mean Low Water Springs (MLWS).
<b>Onshore Cable Route</b>	The final refined route for the Onshore Cable that lies within the Onshore Cable Corridor.
<b>Onshore Components</b>	The Onshore Components of the Proposed Development are all of that part landward from the Mean Low Water Springs (MLWS).
<b>Operational Stage</b>	The stage after which the Proposed Development is handed over by the relevant contractor and signed off as operational. It would remain in its Operational Stage until it is decommissioned.
<b>Optical Regeneration Station(s) (ORS)</b>	Structural unit housing telecommunication equipment for the Proposed Development and responsible for optical signal amplification purposes.
<b>Order Limits</b>	The limits shown on the Works Plans (document reference 2.4) within which the Authorised Development may be carried out.
<b>Project</b>	The Project comprises the Proposed Development, as well as the development proposed within French borders and the French Exclusive Economic Zone (EEZ) which do not fall within the remit of the Application.

Term	Definition
<b>Proposed Development</b>	The development for which a Development Consent Order (DCO) is sought. This is equivalent to the Authorised Development that is set out in Schedule 1 of the draft Development Consent Order (dDCO) submitted with the Application (document reference 3.1).
<b>Site</b>	The land within the Order Limits that is shown on the Works Plans (document reference 2.4).
<b>Telecommunications Building(s)</b>	A building or buildings housing telecommunication equipment. For the Proposed Development, this / these will be contained within (a) dedicated building(s) within its / their own perimeter adjacent to the Converter Station perimeter.
<b>Temporary Works</b>	Those parts of the works that allow or enable construction of the Proposed Development and which do not remain in place at the completion of the works.
<b>Transition Joint Bay (TJB)</b>	The underground onshore point at which the HVDC Cable is jointed at the Landfall.
<b>Trenching</b>	The excavation and reinstatement of a narrow trench, typically 700 – 1,000 mm wide and 1,200 mm deep, into which the Cable ducts will be placed. The trench may be internally supported, and will be reinstated as per the original construction.
<b>Trenchless</b>	Any techniques for installing the HVDC Cable ducts and Fibre Optic



Term	Definition
	Cable (FOC) ducts that does not require the excavation of a trench, enabling infrastructure and sensitive locations to be crossed with limited disruption. Examples include Horizontal Directional Drilling (HDD), whereby a hole is bored from, and exits at, ground level, and Micro-Tunnelling, auger boring and thrust boring, whereby a bore is drilled to and from excavated pits, using hydraulic ramming equipment.

## 1.2. BACKGROUND

- 1.2.1.1. AQUIND Interconnector is a proposed electricity interconnector between France and the UK. The Project includes a new marine and onshore High Voltage Direct Current ('HVDC') power cable transmission link between Normandy in France and the south coast of England, converter stations in both England and France, and fibre optic data transmission cables.
- 1.2.1.2. With a net capacity of 2000 megawatts ('MW'), it will significantly increase the cross-border capacity between the UK and France, increasing competition and security of the electricity supply in each of the respective countries. To enhance the security of supply and availability of its power transfer capability, it is being designed as two independent pairs of cables, each with the net capacity of 1000 MW ~~and with~~ a total net transmission capacity of up to 2000 MW. [The Proposed Development is a part of the Project and comprises the Onshore and Marine Components.](#)
- 1.2.1.3. ~~To date extensive~~ Extensive consultation has been undertaken with the Local Highway Authorities and Highways England ~~to mitigate concerns ahead of the submission of the Draft in relation to the draft~~ Development Consent Order ('dDCO') for the Proposed Development, which this Framework ~~CTMP~~ Construction Traffic Management Plan (herein referred to as the Framework CTMP) is part. ~~For this reason, this~~ This document should be read in conjunction with the following documents:
- Chapter 3 (Description of the Proposed Development) of the ES Volume 1 (~~document reference 6.1.3~~ Examination Library Reference: APP-118);
  - Appendix 22.1 (Transport Assessment) of the ES Volume 3 (~~document~~

~~reference 6.3.22.1~~ [Examination Library Reference: APP-448](#));

- Onshore Outline Construction Environmental Management Plan ('CEMP') (~~document reference 6.9~~); [Examination Library Reference: APP-505](#); and
- Appendix 6 ([Framework](#) Traffic Management Strategy) of Appendix 22.1 (Transport Assessment); ~~and~~ [ES Volume 3 \(Examination Library Reference: App-449\)](#).

~~• Environmental Impact Assessment (document references 6.1—6.4).~~

### 1.3. SCOPE OF [FRAMEWORK CTMP](#)

1.3.1.1. This [Framework](#) CTMP provides an overarching plan as to how the construction traffic and site operations will be managed across the extent of the Onshore Components ~~of the Project~~. Individual CTMP documents will be ~~provided to each contractor with further detail relating to their~~ [approved in relation to](#) relevant work site locations, [which will be required to accord with the relevant to them contained in this Framework CTMP](#). These will be prepared and ~~agreed with~~ [approved by](#) the relevant Local Highway Authority ~~(s) for the area in which the works to which they relate are located~~, ahead of [the relevant](#) works commencing.

[1.3.1.2.](#) The Onshore Cable Corridor passes through a number of administrative boundaries which include [East](#) Hampshire District Council ('EHDC'), Winchester City Council ('WCC'), Havant Borough Council ('HBC'), ~~Hampshire County Council ('HCC')~~ and Portsmouth City Council ('PCC'). ~~HCC is the highways authority~~ [Hampshire County Council \(HCC\) is the Local Highway Authority](#) for the roads within the WCC, HBC and EHDC administrative areas and PCC, as a unitary authority, is highway authority for Portsmouth. The Onshore Cable Corridor crosses or runs adjacent to the A3(M) and the A27 which fall under Highways England's jurisdiction, [albeit no part of the Onshore Cable Corridor is located on the strategic road network for which Highways England has responsibility](#).

[1.3.1.3.](#) ~~1.3.1.2.~~ The [Framework](#) CTMP sets out the ~~parameters within which contractors will be required to work~~ [framework for the detailed CTMP's to be approved](#), including hours of operation, traffic routing, safe vehicular access and manoeuvring and minimising traffic impacts.

[1.3.1.4.](#) ~~1.3.1.3.~~ The individual CTMPs [to be prepared and approved post grant of the DCO for the Proposed Development](#) must contain [relevant](#) details of:

- Vehicle routing plans;
- Proposed programme and duration;
- Number of construction personnel including travel arrangements and mitigation;
- Alterations to the highway to enable construction ~~—~~ [including](#) temporary and

permanent;

- Details of the number of construction and delivery vehicles using the public highway-including abnormal and indivisible loads;
- Traffic management details;
- Compounds and ~~laydown-area~~ Laydown Area details; and
- Highway condition surveys.

## 1.4. OBJECTIVES OF CTMP

### 1.4.1.1.

The Framework CTMP sets out the ~~detailed~~ measures that can be implemented to provide mitigation for the construction traffic associated with the ~~Project. The Onshore Components of the Proposed Development. The Framework~~ CTMP has the primary objective of minimising impact and disruption to existing users of the public highway network and the surrounding community, forming the framework ~~within which all contractors are expected to work. This can~~ the individual CTMP's to be approved and which must be complied with during the construction of the Onshore Components. This will be achieved by:

- Minimising the number of vehicular trips required for the movement of material and people;
- Ensuring construction traffic trips and routes used are planned to be safe, efficient and timely;
- Ensuring the impact to residents, local sensitive receptors and the travelling public are minimised; and
- ~~That the~~ The CTMP and the individual CTMPs ~~are continuity being~~ monitored, reviewed and updated as necessary and improvements incorporated throughout the duration of the works being undertaken.

## 1.5. REPORT STRUCTURE

### 1.5.1.1.

The following sections are included in this Framework CTMP and will form, in part, the basis of the individual CTMPs ~~submitted by contractors~~;

- Section 1 – Introduction – this section including scope and objectives;
- Section 2 – The Proposed Development – Onshore Cable Corridor, site compounds and ~~laydown-areas~~ Laydown Areas, typical ~~constriction~~ construction vehicles, ~~ALLs~~ Abnormal Loads (including ALL's) and construction activities;
- Section 3 – Vehicular Movement Management – vehicle routing strategy, timing of movements, sensitive receptors, reducing impacts of Heavy Goods Vehicle ('HGVs'), local highway issues and constraints and section specific constraints,

- management of ~~abnormal loads~~ Abnormal Loads and construction HGV routes;
- Section 4 – Construction Workforce – descriptions of controls to mitigate the impact of construction staff traffic;
  - Section 5 – Site Accesses/Haul Road – location, design, management and mitigation of permanent and temporary accesses points;
  - Section 6 – Highway/Railway Crossings ~~– agreement, management and advance notification of diversions and public rights of way~~ – details of interventions required;
  - ~~Section 7 – Required Highway Interventions – Interventions identified.~~
  - ~~Section 8~~ Section 7 – Management of Road Safety – Existing collision records, and highway condition ~~and construction traffic assumptions~~ surveys; and
  - Section ~~9~~ 8 – Implementation and Monitoring – ~~Implementation of the final CTMPs and Compliance~~, compliance and monitoring of the individual CTMPs.

## 2. THE PROPOSED DEVELOPMENT

### 2.1. OVERVIEW

2.1.1.1. This section summarises the Construction Stage for the Onshore Components ~~of the Construction Stage~~, including construction techniques and the indicative construction programme. The main construction activities for the Onshore Component ~~includes~~ include the following:

- Landfall works ~~including~~ the erection of the Optical Regeneration Station ('ORS') buildings at Eastney;
- Construction of the Onshore Cable ~~Corridor Route, with an~~ approximate length of ~~120 km; 20 km, including~~ Lovedean Converter Station Area; Horizontal Directional Drilling ('HDD') at:
  - Landfall UK-HDD-1;
  - Milton and Eastney Allotments UK-HDD-2;
  - Langstone Harbour UK-HDD-3;
  - Farlington Railway Crossing (Trenchless) UK-HDD-4;
  - Kings Pond UK-HDD-5; and
  - Milton Common UK-HDD-6.
    - ♦ Substation works at Lovedean Substation;
    - ♦ Cable jointing bays at intervals on the Onshore Cable Route;
    - ♦ Permanent highway interventions;
    - ♦ Permanent access from the highway; and
    - ♦ Temporary construction haul roads and accesses from public highway.
- Construction activities at the Lovedean Converter Station Area;

2.1.1.2. ~~These construction activities and the~~ The Order Limits for the Onshore Components of the Proposed Development are shown in Appendix 1.

### 2.2. CONVERTER STATION AREA

2.2.1.1. The Converter Station will be erected to the west of the existing Lovedean substation and will be connected to the substation by HVAC cables and FOC. A new Access Road, proposed to act as the construction and permanent access, will be built from

Broadway Lane across farmland to access the new Converter Station Area from the south. This road will also serve as the new permanent access to the Converter Station. The Telecommunications Buildings will be constructed to the south of the Converter Station. The Converter Station Area will also contain attenuation ponds, various mitigations measures and a part of the Onshore Cable Route as well as areas of temporary use.

## 2.3.

### **2.2.CABLE CORRIDOR SECTIONS**

#### 2.3.1.1.

~~2.2.1.1.~~The Onshore Cable Corridor has been ~~sub~~-divided into ten sections for ease of understanding, planning and consultation. The sections are as follows from the north at the site of the Converter Station in Lovedean to south where the cables make Landfall at Eastney;

- Section 1 – Lovedean (Converter Station Area);
- Section 2 – Anmore;
- Section 3 – Denmead/Kings Pond Meadow;
- Section 4 – Hambledon Road to Farlington Avenue;
- Section 5 – Farlington;
- Section 6 – Zetland Field & Sainsbury’s Car Park;
- Section 7 – Farlington Junction to Airport Service Road;
- Section 8 – Eastern Road (adjacent to Great Salterns Golf Course) to Moorings Way;
- Section 9 – Moorings Way to Bransbury Road; and
- Section 10 – Eastney (Landfall).

#### 2.3.1.2.

~~2.2.1.2.~~Please refer to Figure 3.9 of the ES Volume 2 (~~document reference 6.2.3.9~~Examination Library Reference: App-154) for a plan ~~of the cable corridor sections~~identifying the section of the Onshore Cable Corridor.

#### 2.3.1.3.

~~2.2.1.3.~~Below are brief descriptions of the works associated within each section of the Onshore Cable Corridor ~~(heading south from the Lovedean (Converter Station Area)), divided into appropriate sections, with details of the affected highway links.~~

## 2.3.2.

### **2.2.2.SECTION 1 – LOVEDEAN (CONVERTER STATION AREA)**

#### 2.3.2.1.

~~2.2.2.1.~~The existing Lovedean substation to the west of the village of Lovedean is to be extended for the siting of the new Converter Station. A new Access Road, proposed to act as the construction and permanent access, will be built from Broadway Lane across farmland to access the new Converter Station Area from the

~~south. This road will also serve as the new permanent access to the Converter Station.~~ The Onshore Cable Corridor will head south through farm land for approximately 800 m crossing ~~the unnamed single-track road~~ Broadway Lane west of Denmead Farm and east of Edney's Lane (The Crossways) ~~through to the next section.~~

### 2.3.3. **2.2.3. SECTION 2 – ANMORE**

2.3.3.1. ~~2.2.3.1.~~ This 1.2 km section of Onshore Cable Corridor will cross agricultural farm land between Broadway Lane ~~in Section 1~~ to Anmore Road in the land bound by Edney's Lane in the west and Anmore Lane in the east. The Onshore Cable Corridor then crosses Anmore Road.

### 2.3.4. **2.2.4. SECTION 3 – DENMEAD/ KINGS POND MEADOW**

2.3.4.1. ~~2.2.4.1.~~ This section covers the Onshore Cable Corridor from Anmore Road east of Denmead to B2150 Hambledon Road ~~via~~, following an off-road route via land known as Kings Pond Meadows. The section length is approximately 760 m. This Section partially comprises installation via HDD (HDD-5), in the fields to the south of Anmore Road and to the north of B2150 Hambledon Road.

### 2.3.5. **2.2.5. SECTION 4 – HAMBLEDON ROAD TO FARLINGTON AVENUE**

2.3.5.1. ~~2.2.5.1.~~ This section of the Onshore Cable Corridor passes from the administrative boundary of HCC into PCC. The Onshore Cable Corridor heads south for approximately 5.4 km through the HCC area following the B2150 Hambledon Road from Waterlooville and the A3 Maurepas Way/London Road through Purbrook and Widley to the highway boundary of HCC and PCC, which is north of B2177 Portsdown Hill Road.

2.3.5.2. ~~2.2.5.2.~~ The Onshore Cable Corridor within the PCC area is 1.2 km long and continues east along B2177 Portsdown Hill Road to Farlington Avenue as far as the junction with Burnham Road ~~to contain a contractor lay-down area on land to the west of London Road north of Ladybridge Road.~~

### 2.3.6. **2.2.6. SECTION 5 – FARLINGTON**

2.3.6.1. ~~2.2.6.1.~~ This 1 km section leads the Onshore Cable Corridor south from the junction of ~~Burham~~ Burnham Road on Farlington Road, to the junction with A2030 Havant Road and turning east to the A2030 Eastern Road and continuing south until Zetland Field.

### 2.3.7. **2.2.7. SECTION 6 – ZETLAND FIELD & SAINSBURY'S CAR PARK**

2.3.7.1. ~~2.2.7.1.~~ This 600 m section will leave the carriageway of A2030 Eastern Road and use Zetland Field to continue south to Fitzherbert Road which it will cross and enter the car park of the retail park and Sainsbury's supermarket. Following the western

side of the car park, it will reach the south coast railway.

2.3.7.2.

A trenchless solution will be utilised for the Onshore Cable Route to pass under the railway embankment (HDD-4). This will require a compound for the launch/reception pit.

2.3.8.

**2.2.8. SECTION 7 – FARLINGTON JUNCTION TO AIRPORT SERVICE ROAD**

2.3.8.1.

~~2.2.8.1.~~ After passing under the south coast railway into Farlington Playing Fields (HDD-4), the Onshore Cable Corridor will follow the eastern boundary of ~~the~~ Farlington Playing Fields where it will be required to pass under the A27 Havant Bypass (maintained by Highways England) ~~where HDD~~ for which HDD beneath Langstone Harbour will be utilised (HDD-3).

2.3.8.2.

South of the A27, the Onshore Cable Corridor will cross beneath the mud flats of Langstone Harbour to reach Portsea Island ~~re-joining the A2030 Eastern Road at the Kendall's Wharf opposite Anchorage Road~~ where it will proceed south to Airport Service Road junction ~~a total~~. This section has a total distance of approximately 2.3 km. ~~There will be a contractor lay-down area for materials within this section.~~

2.3.9.

**2.2.9. SECTION 8 – EASTERN ROAD (ADJACENT TO GREAT SALTERNS GOLF COURSE) TO MOORINGS WAY**

2.3.9.1.

~~2.2.9.1.~~ This section has three potential routes for the Onshore Cable Corridor ~~based on the possible connection points in section 9~~. The first route utilises the A2030 Eastern Road and the residential street of Eastern Avenue. The second crosses the western and southern boundary of Milton Common from Eastern Road to Moorings Way. The third follows the eastern boundary of Milton Common to reach Moorings Way. Milton Common is a former landfill site, and as a consequence there remains uncertainty it will be fully suitable for the laying of the Onshore Cables. For this reason, the options are retained to ensure engineering feasibility.

2.3.10.

**2.2.10. SECTION 9 – MOORINGS WAY TO BRANSBURY ROAD**

2.3.10.1.

~~2.2.10.1.~~ From Moorings Way ~~the~~ The Onshore Cable Corridor ~~will lead~~ leads from Moorings Way to head south ~~through Furze Lane or~~ through the sports grounds of University of Portsmouth where it will cross Locksway Road into the Thatched House public house car park and pass under the Milton and Eastney Allotments (through use of HDD -2). It will then enter Kingsley Road and passing into Bransbury Park via Yeo Court or via the access opposite Ironbridge Lane (or potentially a Cable Circuit utilising each depending on final confirmed engineering feasibility). The route will continue across Bransbury Park to join Henderson Road.

2.3.11.

**2.2.11. SECTION 10 – EASTNEY (LANDFALL)**

2.3.11.1.

~~2.2.11.1.~~ This ~~650 m~~ section of the Onshore Cable Corridor leads to the Landfall ~~Temporary~~, where the Transition Joint Bays (TJB) and Optical Regeneration Station



(ORS) ~~building~~buildings are to be located. After exiting Bransbury Park, the Onshore Cable Corridor will travel east along Bransbury Road ~~to~~ Fort Cumberland Road and Henderson Road to the Fraser Range access road to the Landfall site, which is currently a car park with unmade ground. The car park will serve as a ~~contractors~~contractor's compound and lay-down area for the construction of the ~~optical regeneration station(s)~~TJB, ORS and in respect of the jointing of the Onshore Cables and the Marine Cables.

## 2.4.

### **2.3.Permanent Access Points**

#### 2.4.1.1.

~~2.3.1.1.~~ There will be two permanent accesses delivered by the completion of the Proposed Development. The first will be at the ~~Lovedean~~proposed Converter Station from Broadway Lane in ~~Denmead~~Lovedean and the second to the ORS off Fort Cumberland Road, discussed further below.

#### 2.4.2.

### **2.3.2. SECTION 1 – LOVEDEAN (CONVERTER STATION AREA) ACCESS**

#### 2.4.2.1.

~~2.3.2.1.~~ ~~A new junction will be created from Broadway Lane just south of junction with Day Lane as shown in Appendix 2. To~~ To provide a permanent access junction to and facilitate construction there will be an upgrade of the Converter Station the junction of Broadway Lane and Day Lane junction including a will be upgraded, which will include the construction of a ~~haul road~~Haul Road and temporary holding area. ~~temporary holding area will be removed, and the land reinstated at the end of construction.~~ The proposed access junction is shown in Drawing AQD-WSP-UK-OS-DR-Z-200215 included at Appendix 2.

#### 2.4.2.2.

As can be seen in drawing AQD-WSP-UK-OS-DR-Z-200215, the proposed Haul Road and temporary holding area comprise a new highway link to be provided between Day Lane, east of the existing bend, and at Broadway Lane, south of the existing bend. This will provide a managed facility for vehicles entering the Site during the Construction Stage with vehicle movements across Broadway Lane able to be marshalled. This link also accommodates HGV / abnormal load movements and would be retained as a permanent feature (unadopted) to allow future access for such vehicles should this be required in connection with the operation and maintenance of the Converter Station and the Telecommunications Buildings.

#### 2.4.3.

### **2.3.3. SECTION 10 – EASTNEY (LANDFALL)**

#### 2.4.3.1.

~~2.3.3.1.~~ A new formal access arrangement ~~will be~~is required for the ORS ~~Building buildings to be~~ located in the public car park south of Fort Cumberland Road, ~~and will be designed to appropriate standards and will follow all relevant visibility splay and tracking requirements and subject to a full Road Safety Audit prior to approval with PCC.~~ This access will be located on the southern side of the ORS compound and directly from the public car park. A new permanent access will therefore not be required onto Fort Cumberland Road.

## 2.5. **2.4.COMPOUND AND LAYDOWN AREAS**

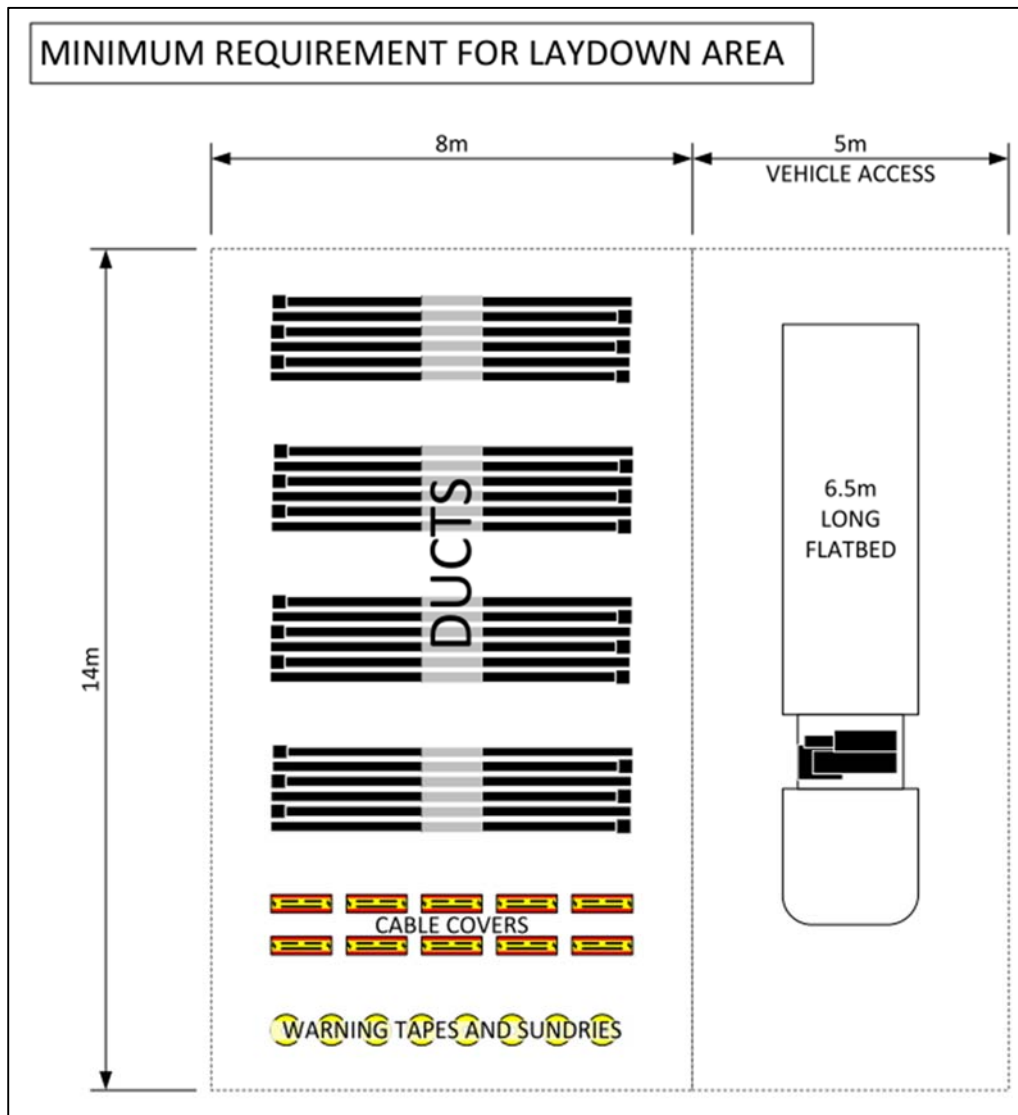
2.5.1.1. ~~2.4.1.1.~~ The ~~primary contractor~~ contractor's compound will be located at the Lovedean proposed Converter Station Area. This compound will be accessed from Broadway Lane via ~~a~~ the new junction (described in 2.3), which will provide access to the Access Road which will ~~also serve as a haul road during construction but becomes~~ serve as a Haul Road during the Construction Stage. The Access Road will also provide a permanent access to the Converter Station once construction is complete during operation.

~~2.4.1.2.~~ ~~There will be satellite contractor's compounds along the Onshore Cable Corridor. These will be mainly utilised as laydown areas for materials and include staff welfare facilities and will be located at:~~

- ~~• Land adjacent to Kendall's Wharf and/or land south of the Langstone Harbour viewing car park; and~~
- ~~• The car park of Fort Cumberland Road (the site of the Landfall and the ORS).~~

2.5.1.2. ~~2.4.1.3.~~ To facilitate construction, ~~laydown areas will be created~~ temporary Laydown Areas may be created at Joint Bay locations (which are to be confirmed as part of the detailed design approvals) to store materials such as cable ducting and arisings from the ~~current work~~ siteworks. This will prevent double handling of materials and additional vehicular trips.

2.5.1.3. A generic layout for ~~laydown areas~~ Laydown Areas is shown in Plate 1 below. The areas will be fenced from the public and vehicular access to them will be managed ~~with arrangements detailed further in Section 5.~~



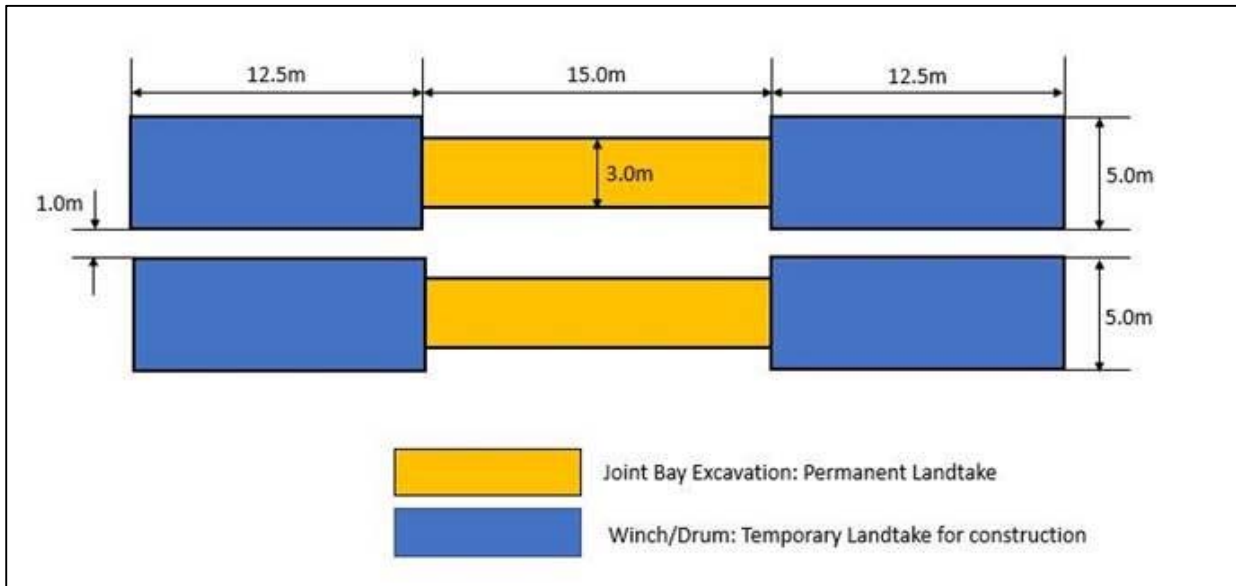
**Plate 1 - Typical Laydown Area Dimensions**

2.5.1.4.

**2.4.1.4.** Welfare facilities, usually in the form of a mobile welfare unit, will be provided with each individual works area and therefore no additional facilities will be provided at ~~laydown areas~~ Laydown Areas.

2.5.1.5.

**2.4.1.5.** At ~~JBs~~ Joint Bays, a compound area of 20 m by 6 m will be required, which will include space of welfare facilities within the areas identified for winch/drum land-take shown in Plate 2.



**Plate 2 – Typical Compound Area for Joint Bay**

**2.6.**

**2.5.INDICATIVE PROGRAMME**

**2.6.1.1.**

~~2.5.1.1.~~ The indicative construction programme is anticipated to extend over three years, with further information provided within Chapter 3 (Description of the Proposed Development) of the Environmental Statement Volume 1 (~~document reference 6-1.3~~ [Examination Library Reference: APP-118](#)). ~~This-~~ The indicative [construction programme](#) is ~~as-~~ shown in the ~~table-~~ [Table 2](#) below. These timescales are subject to cable production, installation rates and environmental ~~consideration~~ [considerations](#). A Gantt chart of the proposed programme is provided in Appendix 3.

**Table 2 - Indicative Construction Programme – Converter Station & Onshore Cable Corridor**

Activity	Anticipated working hours per day	Anticipated working days per week
Converter Station Area Construction	10 hour shifts, 08:00—18:00	6 days*
Marine Cable Installation	24 hour shifts	7 days
Onshore Cable Installation (including HDD-2, HDD-5 and HDD-6)	10 hour shifts, 07:00—17:00	6 days*
Landfall Installation (including HDD-1, TJB and ORS)	12 hour shifts	7 days
HDD-3 and HDD-4 Installation	12 to 24 hour shifts	7 days

<u>Construction Activity</u>	<u>Anticipated Programme</u>
<u>HDD and Landfall installation</u>	<u>Q3 2021 – Q1 2024</u>
<u>Onshore HVDC Route Construction / Installation</u>	<u>Q3 2021 – Q4 2023</u>

*\*Day 6 is Saturday working which is typically a 5-hour shift 08:00 to 13:00.*

2.6.1.2. ~~2.5.1.2.~~ Enabling works are indicatively anticipated to take place in quarter three of 2021 and last approximately 12 months through to the middle of 2022. These works would include site clearance, such as tree and hedge pruning and clearance, and modifications to junctions and roads to accommodate construction activities and vehicles.

2.6.1.3. ~~2.5.1.3.~~ The construction of the Converter Station at Lovedean is anticipated to take approximately two and a half years from Q3 2021. The construction of the Landfall for the TJB, HDD works and ORS ~~building~~ is anticipated to last up to 18 months.

2.6.1.4. ~~2.5.1.4.~~ The installation of the Onshore Cable Route is anticipated to start in the third quarter of 2021 and continue for 27 months to Q3 2023.

2.6.1.5. ~~2.5.1.5.~~ The following ~~wildlife events are to be~~ ecological considerations are taken into ~~consideration~~ account in the phasing of enabling and construction works for the Converter Station Area and Onshore Cable Route:

- Badger breeding season from January to March;
- Bird breeding and nesting season from March to August;
- Plant growing season and winter wet season from August to November, at

Kings Pond Meadow SINC and Denmead in Section 3; and

- Wintering bird season, from October to March.

2.6.1.6.

~~2.5.1.6.~~ Public activities and events that the Applicant has been aware of which are likely to be planned in proximity to the Converter Station Area and Onshore Cable Corridor, ~~including include~~ but are not limited to the following:

- School term times (as required);
- Football season;
- Coastal Waterside Marathon;
- ~~Cowes Week;~~
- Great South Run;
- South Central Festival; and
- Victorious Festival.

2.6.1.7.

~~2.5.1.7.~~ Further to this indicative programme, consideration has been given with the The Framework Traffic Management Strategy ~~to~~ (Examination Library Reference: App-449 Rev 002) provides more detailed information regarding the anticipated duration of the construction programme ~~or for~~ each individual section of the Onshore Cable Corridor. ~~This considers the constraints listed above and links between nearby sections of the Onshore Cable Corridor, where for example multiple construction zones in the same area should be avoided.~~ Route and provides restrictions in relation to which sections and subsections may constructed in parallel so as to avoid unacceptable levels of cumulative effects.

2.6.1.8.

~~2.5.1.8.~~ This programme will help The controls provided for within the FTMS mitigate the impacts of the construction works on the highway network. Traffic Management Strategies for the works are to be prepared in accordance with the FTMS and approved by the relevant local highway authorities separately to the approval of the individual CTMP's.

2.7.

**2.6.SENSITIVE RECEPTORS**

2.7.1.1.

~~2.6.1.1.~~ Identification of local sensitive receptors that would be negatively impacted by the construction of the Onshore Cable Route is ~~a consideration of this Outline CTMP. Further mitigation measures may taken into account in this Framework CTMP. Mitigation measures are to~~ be developed in the detailed CTMPs in terms of construction requirements and programme constraints in relation to them. The identified sensitive receptors include:

- Schools, nurseries and places of learning;
- Hospitals, medical centres and doctor surgeries;

- Places of worship; and
- Leisure facilities.

### 2.7.1.2.

~~2.6.1.2.~~ The following table ~~represents the first-pass at identifying~~ identifies the main receptors per section which are required to be considered in relation to works proximate to them. Additional receptors may be identified by ~~the construction contractors when further consultation with stakeholders and HCC and PCC is undertaken~~ when and the individual CTMP's are prepared for approval in liaison with HCC and PCC. A plan locating all the identified sensitive receptors listed below is contained within Appendix 4.

**Table 3–3 – Identified Sensitive Receptors**

Section	Location	Receptor
1	Broadway Lane, Day Lane, <u>Lovedean Lane</u>	Campsite, pub, <u>school, local shops, B&amp;B</u>
2	<del>Broadway Lane</del> <u>B&amp;B</u> <u>No Sensitive Receptors</u>	
3	Anmore Road, Hambledon Road, Soake Road	Retail, pub, community centre, infant and junior school, care home
4	Hambledon Road, London Road, Portsdown Hill Road	Retail, industrial estates, pubs, schools, places of worship, care home, medical centre, guest house
5	Farlington Avenue, Solent Road, Eveleigh Road	Pub, infant and junior school, Scout hut
6	Eastern Road	Retail
7	Eastern Road	Hotel, sports ground, retail, football club, sailing club, Victorious Music Festival (Farlington Playing Fields)
8	Eastern Road, Tangier Road, Burrfields Road, Moorings Way	Golf club, pub/restaurant, caravan park, hotel, retail, college, infant school, places of worship, cemetery
9	Milton Road, Bransbury Road, Longshore Way	Places of worship, community centre, park, retail, nurseries, junior schools, museum, adult day care, medical centre, university campus, pub/restaurants, sailing club, hospital

Section	Location	Receptor
10	Henderson Road, Fort Cumberland Road, Ferry road	Museum, adult day care, holiday park, playground, marina, lifeboat station

## 2.8. **2.7.CONSTRUCTION VEHICLES**

2.8.1.1. ~~2.7.1.1.~~The following section provides details of typical vehicles which are expected to be used during the construction of the Onshore Cable Route, Converter Station and Landfall works.

### 2.8.2. **2.7.2.HEAVY GOODS VEHICLES FOR CONVERTER STATION WORKS**

2.8.2.1. ~~2.7.2.1.~~These are vehicles that will be utilised for the delivery of materials and equipment and removal of waste. These vehicles will be in the form of articulated and rigid vehicles. All vehicles will have engines with the minimum standard of Euro 6 for diesel and Euro 4 for petrol. This will ensure that vehicular emissions are minimised as much as possible during construction. These vehicles ~~could~~ may include;

- Six axle articulated tractor and trailer units including low-loader trailers for the delivery of materials and plant with gross weights up to 44 tonnes;
- Ready-mix concrete in the form of four axle rigid vehicles up to 32 tonnes in gross weight
- Rigid four axle tipper trucks with and without loader cranes for delivery of bulk aggregates and waste removal. Lorries will be of low and high visibility cabs for cyclist safety;
- Six axle articulate tractor and modified trailer for cable drum delivery to jointing bays; and
- Rigid flatbed trucks for delivery of construction materials for offloading with loader crane or forklift truck.

### 2.8.3. **2.7.3.LIGHT GOODS VEHICLES AND CARS FOR CONVERTER STATION WORKS**

2.8.3.1. ~~2.7.3.1.~~Vehicles such as cars, vans and Light Goods Vehicles ('LGVs') under 7.5 tonne in gross weight will be used during the construction process for the movement of staff, equipment and deliveries. The individual CTMPs will propose measures to reduce the number of movements ~~as much in so far is~~ as possible in connection with the works. Further details of possible measures to reduce movements are provided later in ~~the~~ this report in Section 43.7.



**2.8.4.            2.7.4. CONSTRUCTION VEHICLES FOR DUCT INSTALLATION, JOINT-BAY CONSTRUCTION/BACK FILL & REINSTATEMENT**

**2.8.4.1.            2.7.4.1.** The following vehicles will be used for duct installation, joint bay construction and reinstatement works along the Onshore Cable Route:

- Low loader for plant deliveries;
- Grab wagon for muck away/stone & deliveries;
- HGV with loader crane for material deliveries;
- Vacuum tanker for dewatering excessive amounts of ground water;
- Tarmac lorries; and
- Welfare vehicle.

**2.8.5.            2.7.5. CONSTRUCTION VEHICLES FOR CABLE INSTALLATION AND CABLE JOINTING**

**2.8.5.1.            2.7.5.1.** The following vehicles will be used for cable installation and cable jointing works along the Onshore Cable Route:

- HGV with loader crane /low loader for plant deliveries;
- Low loader for cable deliveries;
- Welfare vehicle;
- Light vehicles, including security vehicle; and
- Vacuum tanker for dewatering excessive amounts of ground water.

**2.8.6.            2.7.6. CONSTRUCTION VEHICLES FOR HORIZONTAL DIRECTIONAL DRILLING**

**2.8.6.1.            2.7.6.1.** The following vehicles will be used ~~for~~ in connection with HDD works:

- Low loader for plant deliveries;
- ~~HGV's~~ HGVs for material deliveries, including water, fuel, bentonite etc;
- HGV with loader crane for moving equipment from pipe side to rig side, delivery of cabins, storage and welfare;
- Vacuum tanker for mud return;
- Water tankers;
- Grab wagon for muck away;
- 20t tipper for stone deliveries; and
- Light vehicles.

**2.8.7. ~~2.7.7.~~ **ABNORMAL INDIVISIBLE LOADS****

~~2.7.7.1. The construction of cable route is likely to result in a number of abnormal loads, technically known as an ALL. A vehicle is considered abnormal when;~~

- ~~• It is over 2.9 m wide or the payload projects over 0.306 m from the vehicle side;~~
- ~~• If it is over 18.65 m rigid length or the payload projects over the rear by 0.305 m;~~  
or
- ~~• It if the gross weight is over 80 tonnes.~~

~~2.7.7.2. It~~ 2.8.7.1. The construction of Onshore Cable Route and Converter Station requires a number of abnormal loads, although it is expected the number of ALLs such vehicle movements will be low and most construction activities will take place with standard vehicles. The ALLs will be to the Lovedean Converter Station site for the Converter Station Area works in this area. delivery of abnormal loads will primarily relate to delivery of infrastructure and construction plant at the Converter Station and cable drums to Joint Bays along the Onshore Cable Route.

2.8.7.2. The assessment of cable drum delivery routes is included within the Supplementary Transport Assessment [document reference number: 7.8.1.11]. The assessment is based on indicative Joint Bay locations. The cable drum delivery routes will be provided to PCC and HCC (as appropriate) for the Joint Bay locations when detailed design approvals are obtained. A summary of the route restrictions which impact upon likely Abnormal Load delivery routes is included in Section 3.5 "Abnormal Load Routes" of this Framework CTMP.

2.8.7.3. 2.7.7.3. Management of ALLs Abnormal Loads will be the responsibility of the contractor appointed to undertake the works. They will be required to comply with the statutory regulations in terms of consulting with the relevant highway authority, police and other stakeholders and this will be confirmed in the individual CTMP's.

**2.8.8. **ABNORMAL INDIVISIBLE LOADS****

2.8.8.1. In addition to abnormal loads, the construction of the Proposed Development will require the delivery of some ALLs. These will be required for the delivery of transformers to the Converter Station.

~~The will~~ 2.8.8.2. All such deliveries will be required to comply with the statutory regulations in terms of consulting with the relevant highway authority, police and other stakeholders. The routing and timing of the ALLs will be agreed and communicated to minimise impact to residents and other road users as appropriate. Arrangements to confirm this is secured will be included in the individual CTMP's as necessary.

2.8.8.3. 2.7.7.4. Given the anticipated size of the ALL deliveries and the traffic management consequently required, it is expected that the deliveries would be undertaken overnight or at weekends, require temporary road closures, temporary adjustment of

highway geometry and temporary removal of street furniture.

#### 2.8.8.4.

~~The A~~ specialist abnormal load contractor, Collett, has developed the study titled Route Access Survey contained within Appendix 5. ~~This addresses 2.7.7.5. — the A of the Supplementary Transport Assessment [document reference number 7.8.1.11]. This considers the local highway requirements for the delivery of a large transformers to the Lovedean sub-station. — Converter Station via ALLs. It is anticipated that ALLs would use the same route as National Grid transformer deliveries completed to Lovedean substation in 2018 as follows:~~

- A3 (Mile End Road): a dual-carriageway with 2/3 lanes in each direction, which directly serves Portsmouth Cargo Port, subject to a 40mph speed limit;
- A3 Twyford Avenue / Northern Parade: a wide single-carriageway road with some on-street parking which mainly provides access to residential properties but also some commercial properties. Twyford Avenue and Northern Parade are subject to a 30mph speed limit;
- A3 London Road: A dual-carriageway with 2/3 lanes in each direction, subject to a 30mph speed limit;
- A27 Havant Bypass: a dual carriageway with 2/3 lanes in each direction, subject to the national speed limit and part of the Strategic Road Network.
- A3(M): a dual carriageway with 2/3 lanes in each direction, subject to the national speed limit and part of the Strategic Road Network.

## 2.9.

### **2.8.CONSTRUCTION ACTIVITIES**

#### 2.9.1.1.

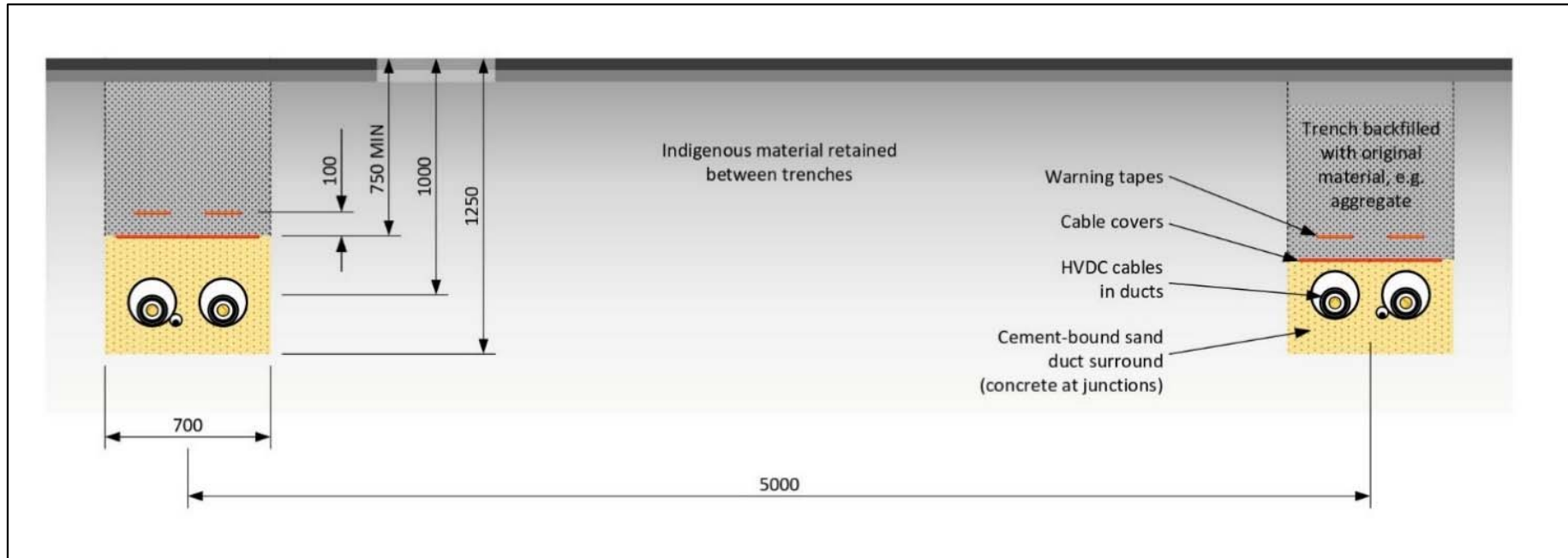
~~2.8.1.1.~~This section provides further detail on the different construction methods to be ~~currently~~ employed along the Onshore Cable Corridor. These methods are determined according to the complexity and constraints of the surrounding environment, and the type of infrastructure being installed.

#### 2.9.2.

### **2.8.2.OPEN CUT TRENCH**

#### 2.9.2.1.

~~2.8.2.1.~~The majority of the Onshore Cable Route will be constructed utilising an open cut trench method. The cable ducts will be installed, and the trenches reinstated before the cables are pulled through the ducts and connected at ~~jointing bays~~Joint Bays. The installation of ducts minimises the duration of trenching operations ~~and allows~~, allowing highways to be reinstated more quickly. Plate 3 provides a typical cross-section of ~~the open cut trench~~ works. The trenches will typically be in the region of 700 mm wide and ~~be~~ a minimum of five metres apart, although this may vary to respond to specific constraints encountered.



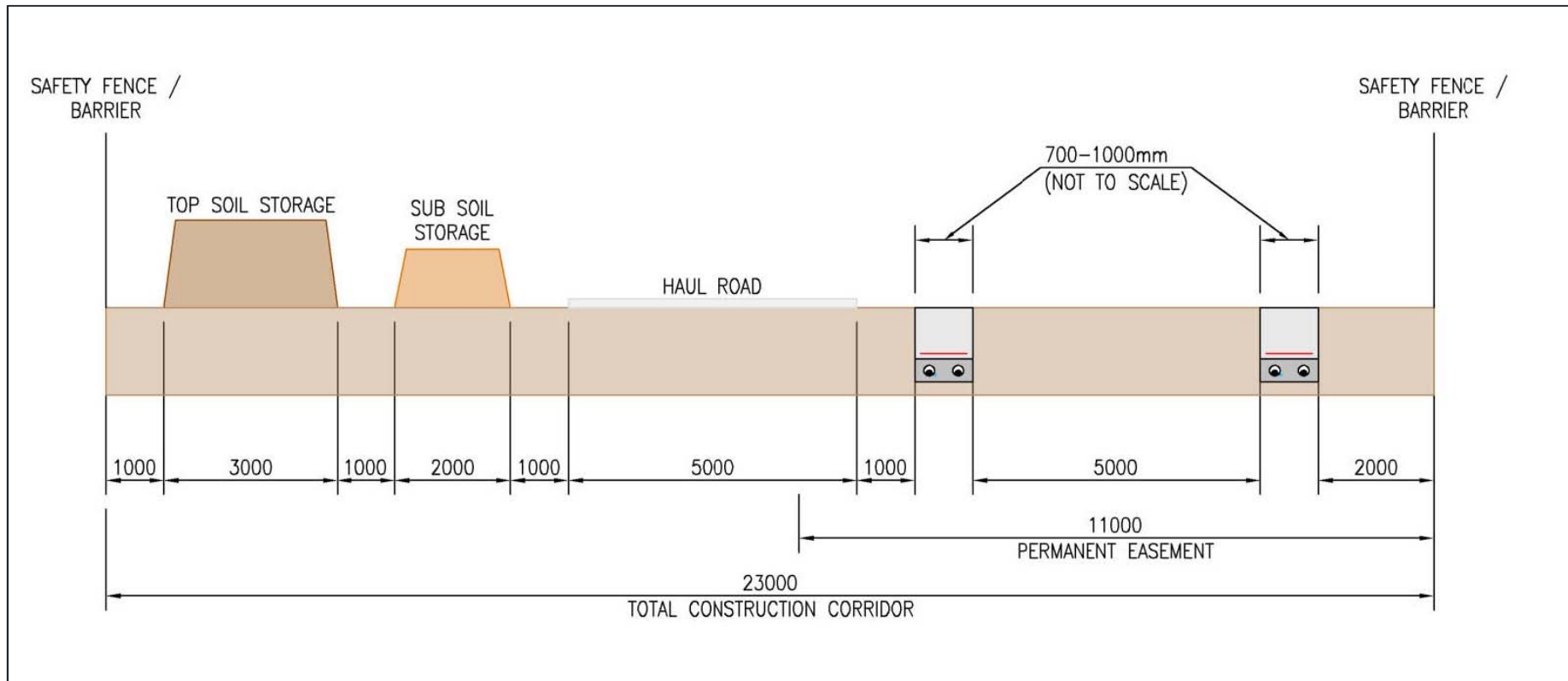
**Plate 3 - Typical arrangement of HVDC and FOC cables in roads, verges and footpaths (all measurements in mm)**

2.9.2.2.

~~2.8.2.2.~~ ~~A significant~~ A large proportion of the Onshore Cable Route will be within the public highway and typically one trench will be opened and reinstated before the second trench is opened in any particular section. In some locations the Onshore Cable ~~Corridor~~ Route may cross fields or open land. The width of the temporary construction corridor within these locations will include land necessary for temporary access and construction works. Typically, the width of the temporary construction corridor required through fields/open land is approximately 23 m (this includes a five metre haul road and safety clearance distance of one metre either side of this haul road) between safety barriers. This is shown in Plate 4.

2.9.2.3.

~~2.8.2.3.~~ The installation rate for cable ducts is approximately ~~18-12~~ m to 30 m per 10-hour day shift, on average, within urban areas and approximately 50 m per day in open country. These typical installation rates are per gang, per shift and are highly dependent upon the level of obstacles and utility services encountered within the road or constraints that need to be observed to minimise the impacts during the ~~construction stage~~ Construction Stage. Further information on the anticipated rates of installation along the Onshore Cable Corridor is available at Appendix 2 to the ES Addendum (document reference 7.8.1.2).



**Plate 4 - Typical Onshore Cable Route Cross-Section within Fields or Open Land (all measurements in millimetres)**

### 2.9.3.

#### **2.8.3. HORIZONTAL DIRECTIONAL DRILLING/TRENCHLESS**

##### 2.9.3.1.

~~2.8.3.1.~~ There are ~~up to 6~~ six locations along the Onshore Cable Corridor where the ducts will be installed by HDD or a similar Trenchless Technique. ~~#~~ This allows cables for the Cable Circuits to cross under certain constraints along the route, namely water ways and environmentally sensitive areas, without causing any adverse impacts. ~~The~~ This method will also be used to bring the Marine Cables to the Landfall. It limits disturbance to the environment when compared with open trenching techniques. ~~These~~ The 6 HDD locations are:

- HDD-1: Landfall at Eastney (located within section 10);
- HDD-2: Milton and Eastney Allotments (between north-east of Bransbury Park and Thatched House public house car park) (located within section 9);
- HDD-3: Langstone Harbour crossing (between Kendall's Wharf and Farlington Playing Fields) (located within section 7);
- HDD-4: Farlington Railway Crossing (between Farlington Playing Fields and southern extent of Sainsbury's car park) (located within section 6 and section 7);
- HDD-5: Kings Pond near Anmore (between Kings Pond Field and field north of Anmore Road) (located within section 3); and
- HDD-6: Milton Common, crossing under the sea defence (located within section 8).

##### 2.9.3.2.

~~2.8.3.2.~~ The HDD operations require a suitable space for the temporary construction area (including temporary access/egress routes), which will vary depending on the length and size of the HDD works in the respective locations. The HDD operations require a working area at the start and finish point (or entry and exit point) to locate the drilling rig, water bowser/pump, generator, layout of ducts/pipes and other construction equipment. ~~Adjacent land~~ Land within the Order Limits (~~e.g. car parks, fields etc.~~) is proposed is to be utilised to facilitate the HDD construction works. Further information on the requirements for the individual HDD locations is provided within the HDD Position Statement (document reference 7.7.3). For each individual HDD location, a delivery plan will be formulated which will provide a management strategy for the offloading of materials arriving on-site. The delivery plan will also include details of the anticipated frequency of deliveries and time restrictions as set-out in this FCTMP.

##### 2.9.3.3.

~~2.8.3.3.~~ For HDD-4, ~~the expected a~~ Trenchless methodology is similar to ~~the~~ HDD and has been selected for the installation of the ~~cable route~~ Cable Route under the railway north of Farlington Railway Crossing (~~HDD-4~~) from the playing fields, known as Micro-Tunnelling. ~~An alternative method of trenchless installation such as~~ Micro-Tunnelling enables ~~cables~~ the Cables to be installed within ducts or pipes under a

feature such as a railway with minimal impact on that feature, and for this reason is the preferred method of crossing railway infrastructure.

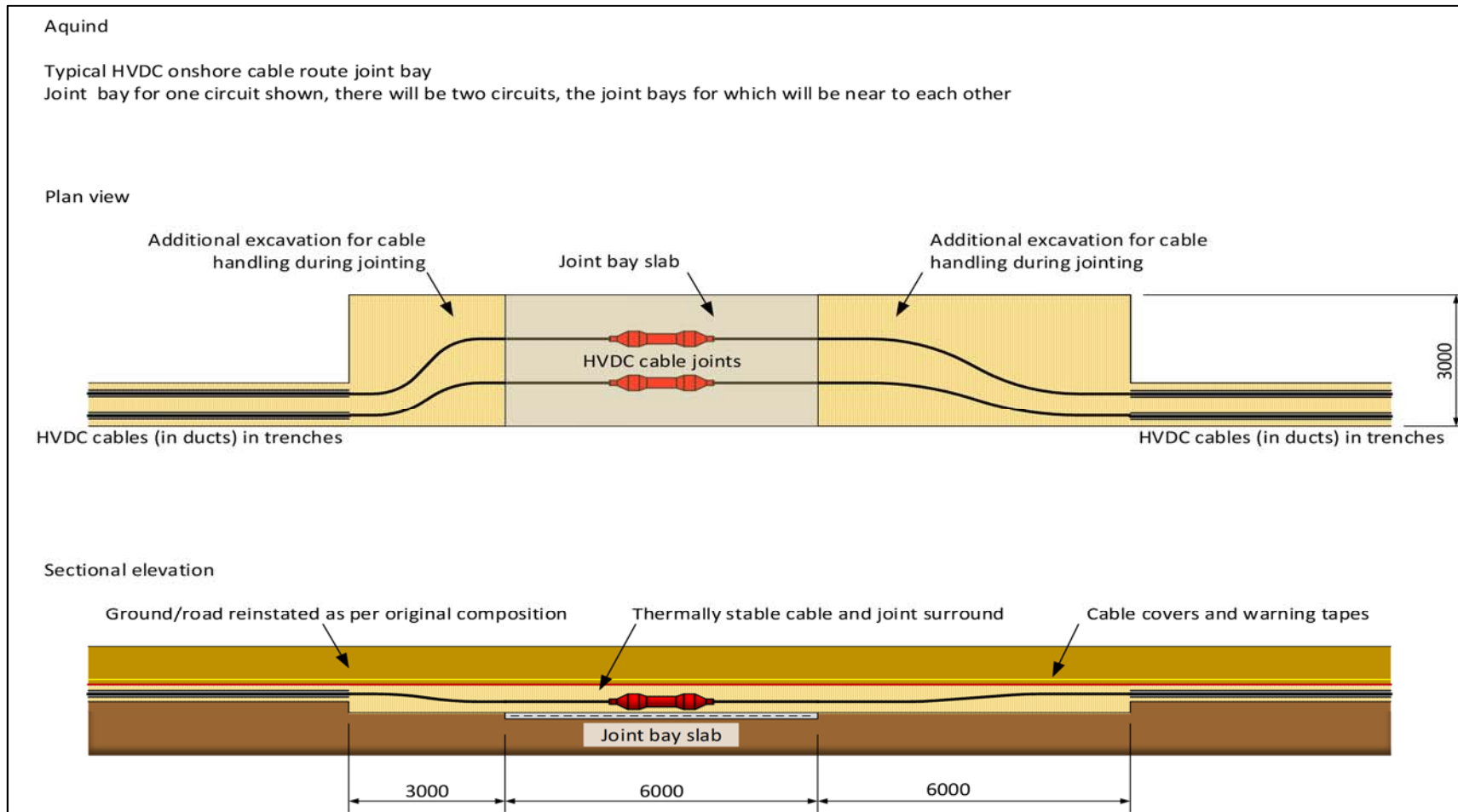
## 2.9.4.

### **2.8.4. JOINT BAYS**

#### 2.9.4.1.

**2.8.4.1.** At ~~specifically~~ specific intervals along the Onshore Cable Route ~~JBs~~ Joint Bays will be situated from which the operation of pulling the Cables and jointing of the Cables will take place. Plate 5 shows a typical schematic of a joint bay which will be in the region of 15 m by 3 m excavation per joint bay plus compound requirements. The operation will require a compound and ~~laydown area~~ Laydown Area for material and parking to be created and ~~these have typically been~~ will be situated out of the public highway ~~and will require temporary access unless unfeasible to do so.~~ Access to each Joint Bay will be required from the highway. The completed ~~JB~~ Joint Bay footprint will be approximately 6 m by 3 m ~~and be~~, and each Joint Bay will be approximately 1.85 m in depth.





**Plate 5 – Typical Schematic of Joint Bay (distances in millimetres)**

# 3. VEHICULAR MOVEMENT MANAGEMENT

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## 3.1. OVERVIEW

3.1.1.1. The ~~CTMP Framework~~ CTMP's purpose is to consider the ~~construction phase~~ Construction Stage only. This section discusses the vehicular access and route strategy for construction vehicles. The vehicular movement strategy for construction is based on a number of core principles:

- Ensuring a safe and efficient use of road space to provide access to the construction site;
- Minimising the number of vehicle movements and reducing impact as far as practical by ~~proposing the use of~~ mitigation measures as required;
- Use of the shortest but most suitable routes to the construction sites ~~as practical~~; and
- Avoiding residential areas and those near sensitive receptors such as schools etc.

3.1.1.2. The Framework CTMP should also be ~~ready-read~~ in conjunction with the following transport reports completed for the Project:

- Appendix 6 (Framework Traffic Management Strategy) of Appendix 22.1 (~~Transport Assessment of ES Volume 3 ((Examination Library Reference: App-449 Rev 002))~~): This document provides details of the traffic management required to facilitate construction of the Onshore Cable Route within or adjacent to public highway. The Framework Traffic Management Strategy sets out the overarching principles and methodology for traffic management to be used during the ~~construction stage and will be developed by the contractor prior to commencement of each individual element of street works~~ Construction Stage. Individual traffic management strategies in relation to works along the Onshore Cable Route in the highway are required to be prepared and approved by the relevant highway authority.

- Appendix 22.1 [of ES Volume 3](#) (Transport Assessment) ([Examination Library Reference: APP-448](#)): This document provides an assessment of the impacts of the ~~construction phase~~ [Construction Stage](#), both in relation to the Converter Station and Onshore Cable Route. It also provides details of proposed mitigation measures that will be provided as part of the Proposed Development.
  - [This Supplementary Transport Assessment \[document reference 7.8.1.11\], which details the anticipated impact on all forms of traffic and travel as a consequence of the construction of the Proposed Development.](#)

## 3.2. VEHICLE ROUTING STRATEGY

3.2.1.1. Vehicular access to the construction works will follow three levels of road hierarchy.

- Level 1 Strategic Road Network – These are roads managed by Highways England being motorways and trunk roads which provide access to the construction sites from a wide catchment area to be distributed by the lower levels of road.
- Level 2 Primary and Local Road Networks – These being roads under the authority of Hampshire County Council and Portsmouth City Council, which provide access to [the Converter Station from the Strategic Road Network and most of the ~~cable corridor~~ Onshore Cable Corridor](#).
- Level 3 Access Road – These will be temporary haul roads created by the construction contractors linking back to the Level 2 road network. These also may be existing privately owned roads utilised for the construction purposes.

3.2.1.2. [Taking account of this road hierarchy, all construction traffic related to the Converter Station will be required to use the A3, M27, M3 or A27 Strategic Road Network to access the A3\(M\) where access to the Converter Station will be achieved only from A3\(M\) Junction 2, Dell Piece West, A3 Portsmouth Road, Lovedean Lane and Day Lane. A plan showing these construction traffic routes is included within Appendix 5 of this FTCMP.](#)

## 3.3. WORKING HOURS

3.3.1.1. ~~The working hours could be as~~ [Working hours for the installation of the Onshore Route are](#) shown in Table 4.

**Table 4 - Working Hours**

<u>Activity</u>	<u>Anticipated working hours per day</u>	<u>Anticipated working days per week</u>
<u>Converter Station Area Construction</u>	<u>10 hour shifts, 08:00 – 18:00</u>	<u>6 days*</u>

<u>Activity</u>	<u>Anticipated working hours per day</u>	<u>Anticipated working days per week</u>
<u>Marine Cable Installation</u>	<u>24 hour shifts</u>	<u>7 days</u>
<u>Onshore Cable Installation</u>	<u>10 hour shifts, 07:00 – 17:00</u>	<u>6 days*</u>
<u>Landfall Installation (including HDD-1, TJB and ORS)</u>	<u>07:00 – 19:00</u>	<u>7 days</u>
<u>HDD-2, HDD-5 and HDD-6 Installation</u>	<u>07:00 - 19:00</u>	<u>6 days*</u>
<u>HDD-3 and HDD-4 Installation</u>	<u>12hr (07:00 to 19:00) to 24 hour shifts</u>	<u>7 days</u>

\*Day 6 is Saturday working which is typically a 5-hour shift 08:00 to 13:00.

### 3.3.2. TIMING OF MOVEMENTS

3.3.2.1. HGV movements to the works sites will be as restricted ~~as follows~~ to reduce impact to the surrounding road network. ~~The main compound for all construction works will be at the Converter Station.~~

3.3.2.2. For all sections of the Onshore Cable Corridor ~~and all construction methods~~, additional restrictions on HGV movements will be ~~considered~~ included to suit local sensitive receptors, such as schools. Local schools include:

- Lovedean Lane: Woodcroft Primary School, located on Woodcroft Lane 250m from Lovedean Lane;
- B2150 Hambledon Road: Denmead Junior School and Denmead Infant School, located on Bere Road and Hambledon Road and located approximately 250 m from Mill Road (Denmead);
- A3 London Road: Mill Hill Primary School, located on Mill Road (Purbrook) approximately 300 m from the from Onshore Cable Corridor;
- Farlington Avenue: Solent Junior School located approximately 90 m from the Onshore Cable Corridor on Solent Road and Solent Infant School located on the Onshore Cable Corridor on Eveleigh Road;
- Moorings Way: Moorings Way Infant School, located on the Onshore Cable Corridor; and
- Locksway Road: Mary Rose Academy, located on Locksway Road which will provide direct access to the Onshore Cable Corridor

- 3.3.2.3. ~~The Contractor shall arrange for Vehicle Marshalls to~~ Vehicle marshals will be required direct construction traffic/HGV movements at the ~~site~~ Site entrances through to site compound areas. Flash cards ~~should~~ will be issued to all HGV drivers and visitors entering ~~the site~~ and vehicles/deliveries will be provided with escorts ~~through the site~~ where required.

### LOVEDEAN (CONVERTER STATION AREA)

- 3.3.2.4. General HGV movements will take place between 09:00 and 17:00 for HGVs relating to construction of the Converter Station, therefore avoiding the AM and PM peaks of 08:00-09:00 and 17:00-18:00. ~~In addition, HGV trips will occur in relation to construction of the Onshore Cable Route to deliver equipment to each location, leaving the compound between 06:00 and 07:00 and arriving at the compound between 17:00 and 18:00.~~

- 3.3.2.5. HGV trips may occur in relation to construction of the Onshore Cable Route to deliver equipment to each location, leaving the compound between 07:00- 08:00 in addition to movements between 09:00 – 17:00.

- 3.3.2.6. On Saturdays, working hours will be 08:00 to 13:00. HGV movements associated with construction of the Converter Station and construction HGVs traveling to and from the Onshore Cable Route will also occur between these hours.

### 3.3.3. EASTNEY (LANDFALL) (HDD-1)

- 3.3.3.1. ~~General~~ On weekdays general HGV movements will take place between 07:00-08:00, 09:00 and 17:00 and 18:00-19:00 for HGVs relating to construction of the ORS and Landfall, therefore avoiding the AM and PM peaks of 08:00-09:00 and 17:00-18:00 and matching the proposed working hours of 07:00-19:00.

- 3.3.3.2. With regards to the HDD, once drilling plant and cabins have been delivered (a ~~2-3~~ 1-2 day process) the Landfall construction site will only generate HGV movements associated with water, bentonite, fuel and removal of spoil. These movements however will be restricted to outside of the 08:00-09:00 and 17:00-18:00 peak traffic hours ~~and 19:00-07:00 to avoid disturbance to nearby residential properties.~~

- 3.3.3.3. At weekends, HGV movements will occur between 07:00 and 19:00 in line the construction working hours.

### 3.3.4. ONSHORE CABLE ROUTE

- 3.3.4.1. On weekdays HGVs carrying equipment and material will leave the from the Converter Station Area at 07:00 and arrive on-site ~~at 07:00 to coincide with the start of the working day~~ before 08:00. General HGV movements will take place between 09:00-17:00 to avoid the peak traffic hours ~~and 19:00 to 07:00 to avoid disturbance~~

~~to nearby residential properties where the cable route corridor passes close to ones. However~~ At the end of the working day, equipment/material ~~may~~ will also be transported away from each site ~~at 17:00. HGV movements outside the normal hours may be required where 24-hour or weekend Onshore Cable Route works are undertaken.~~ traveling back to the Converter Station Area between 16:00 and 17:00.

3.3.4.2. On Saturdays, normal working hours will be 08:00 to 13:00. HGV movements associated with construction of the Converter Station and construction HGVs traveling to and from the Onshore Cable Route will also occur between these hours.

### **3.3.5. HORIZONTAL DIRECTION DRILLING WORKS**

3.3.4.3. HGV movements outside the above stated hours may be required where 24-hour or weekend Onshore Cable Route works are permissible. These movements however will be restricted to outside of the 08:00-09:00 and 17:00-to 18:00 peak traffic hours ~~and~~.

3.3.5. 19:00-07:00 ~~to avoid disturbance to nearby residential properties. However, in areas that are not in close proximity to residential properties may require working between 10:00 and 7:00.~~ **HORIZONTAL DIRECTION DRILLING WORKS**

3.3.5.1. On weekdays where working hours are 07:00-19:00 HGV movements associated with HDD works will occur over the same period but be restricted to outside of the 08:00-09:00 and 17:00-18:00 peak traffic hours. Where 24-hour construction working hours are used HGV movements between 19:00-07:00 will be restricted to avoid disturbance to nearby residential properties. However, in areas that are not in close proximity to residential properties, some HGV movements may occur within this timeframe.

3.3.5.2. On Saturdays where 08:00 to 13:00 working hours are utilised; HGV construction traffic movements will occur between these hours.

3.3.5.3. On weekends where 07:00-19:00 working hours are utilised; HGV construction traffic movements will occur between these hours. Where 24-hour construction working hours are used HGV movements between 19:00-07:00 will be restricted to avoid disturbance to nearby residential properties. However, in areas that are not in close proximity to residential properties, some HGV movements may occur within this timeframe.

3.3.5.4. For each individual HDD location, a delivery plan will be formulated which will provide a management strategy for the offloading of materials arriving on-site. The delivery plan will also include details of the anticipated frequency of deliveries and time restrictions as set-out in this FCTMP.

3.3.5.5. Non HGV construction vehicle movements will be required throughout the day at HDD locations due to the different functions performed by specialist construction workers. To accommodate for this, a small car parking area (less than 10 vehicles)

will be provided within each HDD compound to provide for construction worker parking. Construction staff working normal shift patterns will arrive / depart by minibus or works van wherever practicable and parking of construction worker vehicles outside of HDD compound will not be permitted and will be enforced by the contractor.

### 3.3.6. TRENCHLESS SOLUTION UNDER SOUTH COAST RAILWAY (HDD-4)

3.3.6.1. ~~The majority of~~ On weekdays where working hours are 07:00-19:00 HGV movements will occur ~~Monday to Friday 09:00 to 17:00~~ 07:00-08:00, 09:00-17:00 and 18:00-19:00 ~~therefore~~ avoiding the ~~peak traffic hours-AM and PM peaks~~ of 08:00-09:00 and 17:00-18:00. There may be a requirement for some HGV movements outside of ~~the those~~ time periods presented above to support 24 hour working (though not during the peak traffic hours of 08:00-09:00 and 17:00-18:00). However, ~~all endeavour~~ endeavours will be made to avoid HGV movements between the hours of 19:00 to 07:00 to avoid disturbance to nearby residential properties.

3.3.6.2. On weekends where 07:00-19:00 working hours are utilised; HGV construction traffic movements will occur between these hours. Where 24-hour working is required endeavours will be made to avoid HGV movements between the hours of 19:00-07:00 to avoid disturbance to nearby residential properties.

### 3.3.7. ISSUES AND CONSTRAINTS IDENTIFIED

3.3.7.1. There are a number of common issues that extend over the Onshore Cable Corridor ~~and construction routes~~. Table 5 lists ~~the those~~ common issues and constraints ~~with and identifies~~ the mitigations proposed ~~mitigation, which have been mitigated as to address them in so~~ far as reasonably practicable ~~through the planning and design process~~.

**Table 4-5 - Common Issues and Constraints – ~~Whole cable route~~ Onshore Cable Route**

Issue/constraint	Mitigation stage	Proposed Mitigations
<b>Narrow rural roads/no pedestrian footways/ unrestricted speed limit</b>	Route planning <u>and CTMP</u>	Routing strategy- <u>traffic management</u> and signage to be agreed with HCC and PCC
<b>Narrow residential streets with on-street parking</b>	Route planning	Parking suspension, HGV routing strategy
<b>Congestion and impact on strategic roads</b>	Route planning, Framework Traffic Management	Traffic capacity assessments. Vehicle movements restricted.



	Strategy and <del>Construction</del> <del>Traffic</del> <del>Management</del> <del>Plan</del> <u>CTMP</u>	
<b>Geometry of junctions and roads not suitable and visibility constrained for proposed construction vehicles</b>	Route planning and design stage	Interventions proposed and agreed with highway authority
<b>Long diversion routes for closed roads</b>	Route planning and design stage	Construction techniques to avoid road closures if possible. <del>Advanced signage/warning</del> <u>Advanced signage/communication with local communities</u>

### 3.4. HGV ROUTES

3.4.1.1. An assessment has been made of potential ~~vehicular~~ HGV routes to access the ~~cable route~~ Converter Station Area and Onshore Cable Corridor and is detailed in ~~the following~~ sections ~~below~~ 3.4.2 to 3.4.11. These routes will be communicated to all hauliers and managed/enforced ~~by the contractor~~ via inclusion within the individual CTMP's as necessary.

3.4.1.2. Drivers will be required to adhere to all existing restrictions such as weight and height restrictions. Temporary signage will be utilised ~~by the contractor~~ to direct construction traffic to compounds and site accesses. ~~These~~ The signage required will be agreed with the relevant local highway authorities.

3.4.1.3. ~~3.4.1.2.~~ A plan ~~highlighting the~~ identifying construction access points is presented in Appendix 4.

#### 3.4.2. SECTION 1 – LOVEDEAN (CONVERTER STATION AREA)

3.4.2.1. ~~Construction~~ HGV construction traffic will use junction 2 of A3(M), B2149 Dell Piece West, A3 Portsmouth Road, Lovedean Lane and Day Lane and Broadway Lane.

3.4.2.2. No construction traffic (HGVs and constructions workers) will use the route from the south from Hambledon Road via Soake Road, Anmore Road ~~and~~ Anmore Lane and Broadway Lane.

3.4.2.3. There are no vehicular restrictions in this section other than geometric constraints along Day Lane and Broadway Lane. Day Lane and Broadway Lane are rural country lanes with a general width of 6.0 m or less. Each are bordered by hedgerow/grass verges without footways. Given its existing width, Day Lane will not be able to accommodate two-way HGV traffic and therefore vehicles exiting the Converter Station Area will be controlled to avoid meeting a vehicle travelling along Day Lane towards the ~~site. This could be done using a combination of temporary traffic signals (near the access to the solar farm) and banksmen on either end. In some limited locations, the width of Day Lane may make it difficult for a car and HGV to pass. These locations are primarily where there is good forward visibility, while there is also an informal layby located within highway land adjacent to the Solar Farm access that will facilitate two-way flow of traffic~~Site. This strategy vehicle routing and management strategy is discussed in further detail in Section 6.2.2.

### 3.4.3. SECTION 2 – ANMORE

3.4.3.1. ~~Construction~~HGV construction traffic within ~~section~~Section 2 will travel directly from the Converter Station compound via the internal haul road and therefore HGV movements on highway will be limited to the assigned route to from the A3(M).

3.4.3.2. No construction traffic will use the route from the south from B2150 Hambledon Road via Soake Road, Anmore Road and Anmore Lane.

3.4.3.3. There are no vehicular restrictions in this section other than those mentioned in Section 1.

### 3.4.4. SECTION 3 – DENMEAD/KINGS POND MEADOWS

3.4.4.1. ~~Construction~~HGV construction traffic to/from Anmore Road and Kings Pond will be routed either via the Converter Station ~~compound and Broadway Lane/Anmore Area and A3 London Road, B2150 Hambledon Road and Mill~~ Lane or directly from junction 3 A3(M), Hulbert Road, A3 London Road, B2150 Hambledon Road and Mill Road.

3.4.4.2. No construction traffic will use routes along Broadway Lane south of the Converter Station Area or Soake Road. This will be managed and enforced by provision of route planning information by the contractor.

3.4.4.3. There are no vehicular restrictions in this section ~~and no other geometric constraints have been identified beyond those discussed in Section 1~~but the width of Mill Lane in combination with exiting on-street parking may restrict access by abnormal loads. This on-street parking would therefore need to be temporarily suspended.

### 3.4.5. SECTION 4 – HAMBLEDON ROAD TO FARLINGTON AVENUE

3.4.5.1. Given the length of this section, HGV construction traffic will use different routes depending upon the location of the Onshore Cable Corridor construction works unless it is travelling to /from the Converter Station Area ~~Works Compound~~. All HGVs using the Converter Station Area ~~Works Compound~~ will use Day Lane, Lovedean Lane, ~~Milton~~ A3 London Road and B2150 Hambledon Road to reach the relevant construction location.

3.4.5.2. ~~Construction~~ HGV construction traffic not travelling via the Converter Station Area ~~Works Compound~~ will use the following routes:

- B2150 Hambledon Road: Junction 3 A3(M), Hulbert Road and A3 London Road;
- A3 Maurepas Way/London Road north of Ladybridge Roundabout: ~~Hambledon Road~~: Junction 3 A3(M), Hulbert Road, A3 Maurepas Way and A3 London Road;
- A3 London Road south of Ladybridge roundabout: Junction ~~3-4~~ A3(M) ~~Hulbert Road (eastern)~~, Purbrook Way, ~~Stake~~ Stakes Road, Ladybridge Road and A3 London Road; ~~and~~
- Portsdown Hill Road ~~/Farlington Avenue~~: Junction 5 A3(M), Bedhampton Hill, ~~and~~ B2177 Portsdown Hill Road, ~~Farlington Avenue~~; ~~and~~
- [Farlington Avenue: A27, A2030 Eastern Road, Havant Road and Farlington Avenue.](#)

3.4.5.3. No construction traffic will use Frenstaple Road, Stakes Hill Road and Crookhorn Lane. This will be managed and enforced by provision of route planning information by the contractor.

3.4.5.4. Restrictions in this section include the 'Access Only' 7.5 tonne weight restriction on Farlington Avenue which will be required to be rescinded for the duration of the works on Farlington Avenue. This weight restriction has been implemented in conjunction with the existing traffic calming measures to reduce use of Farlington Avenue as a through-route.

### 3.4.6. SECTION 5 – FARLINGTON

3.4.6.1. ~~Generally,~~ HGV construction traffic will use junction 5 A3(M), A2030 Havant Road, Farlington ~~Road~~ Avenue and A2030 Eastern Road or A27 junction with A2030 Eastern Road. ~~Due to the carriageway width and central islands at the A2030 Havant Road/Farlington Avenue junction it may be necessary for low loader HGVs with cable drums to access Farlington Avenue from the northern end, using the A27 Portsbridge Roundabout, A397 Northern Road, A3 London Road and Portsdown Hill Road to gain access.~~

- 3.4.6.2. No construction traffic will use any surrounding residential roads. This will be managed and enforced by provision of route planning information by the contractor.
- 3.4.6.3. Restrictions in this section include the 'Access Only' 7.5 tonne weight restriction on Farlington Avenue which will be required to be rescinded for the duration of the works on Farlington Avenue.

### 3.4.7. SECTION 6 – ZETLAND FIELD & SAINSBURY'S CAR PARK

- 3.4.7.1. ~~Construction~~ HGV construction traffic will use junction 5 A3(M), A2030 Havant Road, and A2030 Eastern Road or A27 junction with A2030 Eastern Road.
- 3.4.7.2. No construction traffic will use Lower Farlington Road or Fitzherbert Road. This will be managed and enforced by provision of route planning information by the contractor.
- 3.4.7.3. There are no vehicular restrictions in this section and no geometric constraints have been identified.

### 3.4.8. SECTION 7 – FARLINGTON JUNCTION TO AIRPORT SERVICE ROAD

- 3.4.8.1. ~~Construction~~ HGV construction traffic will use the A27 junction with the A2030 Eastern Road northbound for the Farlington Playing Fields works and southbound for Portsea Island works.
- 3.4.8.2. No construction traffic will use the London Road, Copnor Road and Norway Road. This will be managed and enforced by provision of route planning information by the contractor.

~~3.4.8.3. There are no vehicular restrictions in this section and no geometric constraints have been identified.~~

### 3.4.9. SECTION 8 – EASTERN ROAD (ADJACENT TO GREAT SALTERNS GOLF COURSE) TO MOORINGS WAY

- 3.4.9.1. ~~Construction~~ HGV construction traffic will use the A27 junction with A2030 Eastern Road for access.
- 3.4.9.2. No construction traffic will use the section from Copnor Road to Milton Road. This will be managed by provision of route planning information by the contractor.

~~Restrictions in this section include the 5 tonne weight 3.4.9.3. restriction on Eastern Avenue and Moorings Way which will be required to be rescinded for the duration of the works. This is an environmental weight restriction which restricts access between midnight and 07:00 and 19:00 to midnight Monday to Saturday and all day on Sunday. The impacts of lifting this restriction can therefore be mitigated by ensuring that access by construction vehicles follows these restrictions through the contractors CTMP~~

### **3.4.10. SECTION 9 – MOORINGS WAY TO BRANSBURY ROAD**

- 3.4.10.1. ~~Construction~~ HGV construction traffic will use A27 junction with A2030 Eastern Road, A288 Eastney Road, Milton Avenue, Moorings Way, Locksway Road, Kingsley Road, and Bransbury Road.
- 3.4.10.2. No construction traffic will enter the 5-tonne restricted zone of Salterns Avenue residential area. Traffic will not use other residential side streets to travel north or south but will return to A88 Eastney Road or A2030 Milton Road. Construction traffic will leave Portsea Island via A2030 Eastern Road only.
- 3.4.10.3. There are no vehicular restrictions in this section other than geometric constraints associated with use of residential roads such as Locksway Road, Kingsley Road and Bransbury Road. These are generally 6.0-7.0 m in width with on-street parking on at least one-side of the carriageway. Taking this into account, the contractor will be required to use smaller construction vehicles and plant when accessing these roads and there may be a need to temporarily suspend on-street parking on parts of Locksway Road and Kingsley Road.

### **3.4.11. SECTION 10 – EASTNEY (LANDFALL)**

- 3.4.11.1. ~~Construction~~ HGV construction traffic will use the A27 junction with A2030 Eastern Road, A288 Eastney Road and Bransbury Road, Henderson Road and Fort Cumberland Road.
- 3.4.11.2. No construction traffic will use the section of Henderson Road to the roundabout with A288 Cromwell Road. This will be managed and enforced by provision of route planning information by the contractor.
- 3.4.11.3. There are no vehicular restrictions in this section, no geometric constraints have been identified other than removal of the existing height restriction gate at the existing public car park.

## **3.5. ABNORMAL LOAD ROUTES**

3.5.1.1. An assessment has been made of potential Abnormal Load routes to access the Converter Station Area and Onshore Cable Corridor and is detailed in sections 3.5.2 to 3.5.8. These routes will be communicated to all hauliers and managed/enforced via inclusion within the individual CTMP's as necessary.

3.5.1.2. This section sets out elements relevant to Abnormal Loads, over and above the general information applicable to HGVs set out above.

### **3.5.2. SECTION 1 – LOVEDEAN (CONVERTER STATION AREA)**

3.5.2.1. Geometric constraints at the A3 Portsmouth Road / Dell Piece West / Catherington Lane signalised junction mean ALL manoeuvres associated with transformer deliveries to the Converter Station may require temporary removal of traffic signal poles and other street furniture. These removals will be undertaken with support of escort vehicles.

**3.5.3. SECTION 4 – HAMBLEDON ROAD TO FARLINGTON AVENUE**

3.5.3.1. Due to their size and weight, cable drum delivery vehicles accessing Joint Bays on Portsdown Hill Road and Farlington Avenue will use A3(M) Junction 4, Purbrook Way, Stakes Road, Ladybridge Road and A3 London Road. Exit would be via A3 London Road to Cosham, with the delivery vehicle continuing along A3 Southampton Road to reach the M275 / M27.

**3.5.4. SECTION 5 – FARLINGTON**

3.5.4.1. Due to their size and weight, cable drum delivery vehicles accessing Joint Bays on Portsdown Hill Road and Farlington Avenue will use A3(M) Junction 4, Purbrook Way, Stakes Road, Ladybridge Road and A3 London Road. To gain access to the Portsdown Hill car park, the existing traffic island and posts will need to be temporarily removed. Exit would be via A3 London Road to Cosham, with the delivery vehicle continuing along A3 Southampton Road to reach the M275 / M27.

**3.5.5. SECTION 6 – ZETLAND FIELD & SAINSBURY'S CAR PARK**

3.5.5.1. There are no vehicular restrictions in this section and no geometric constraints have been identified for general construction traffic but abnormal loads associated with cable drum deliveries may require temporary removal of traffic signal poles on Fitzherbert Road to facilitate access.

**3.5.6. SECTION 7 – FARLINGTON JUNCTION TO AIRPORT SERVICE ROAD**

3.5.6.1. Due to the 50t weight limit on the Eastern Road bridge south of the A27, cable drum delivery vehicles will route through Portsmouth to gain access to Section 7. Access to Joint Bays in Section 7 from Portsmouth Cargo Terminal will be via A3 Commercial Road, A3 Marketway, A3 Anglesea Road, A2030 Winston Churchill Avenue, A2030 Victoria Road North and A2030 Goldsmith Avenue, Fratton Way, Rodney Road, A2030 Velder Avenue and A2030 Eastern Road. A loop of Airport Service Road, Robinson Way and Anchorage Road will also be required to access construction locations on or adjacent to the southbound carriageway of the A2030 Eastern Road. This routing will also apply to other abnormal loads that are heavier than the A2030 Eastern Road bridge weight restriction.

**3.5.7. SECTION 8 – EASTERN ROAD (ADJACENT TO GREAT SALTERNS GOLF COURSE) TO MOORINGS WAY**

3.5.7.1. Restrictions in this section include the 5 tonne weight restrictions on Eastern Avenue and Moorings Way. These are environmental weight restrictions usually intended to protect the character of the area rather than restrictions for structural reasons, which restricts use of these links by HGVs between midnight and 07:00 and 19:00 to midnight Monday to Saturday and all day on Sunday. These restrictions will be required to be disapplied on Saturday and Sunday in relation to Abnormal Loads in connection with the construction of the Onshore Cable Route. The impacts of lifting this restriction can therefore be mitigated by ensuring that access by construction vehicles follows these restrictions through the contractors CTMP.

3.5.7.2. Due to the 50t weight limit on the Eastern Road bridge south of the A27, cable drum delivery vehicles will need to route through Portsmouth to gain access to Section 8. Access to Joint Bays in Section 8 from Portsmouth Cargo Terminal will be via A3 Commercial Road, A3 Marketway, A3 Anglesea Road, A2030 Winston Churchill Avenue, A2030 Victoria Road North and A2030 Goldsmith Avenue, Fratton Way, Rodney Road, A2030 Velder Avenue and A2030 Eastern Road. A loop of Airport Service Road, Robinson Way and Anchorage Road will also be required to access construction locations on or adjacent to the southbound carriageway of the A2030 Eastern Road. This routing will also apply to other abnormal loads that are heavier than the A2030 Eastern Road bridge weight restriction.

3.5.7.3.

### 3.5.8. SECTION 9 – MOORINGS WAY TO BRANSBURY ROAD

3.5.8.1. Due to the 50t weight limit on the Eastern Road bridge south of the A27, cable drum delivery vehicles will route through Portsmouth to gain access to Section 9. Access to Joint Bays in Section 9 from Portsmouth Cargo Terminal will be via A3 Commercial Road, A3 Marketway, A3 Anglesea Road, A2030 Winston Churchill Avenue, A2030 Victoria Road North, A2030 Goldsmith Avenue, Fratton Way, Rodney Road and A288 Milton Road. At the A288 Milton Road / A2030 Velder Avenue / Rodney Road traffic signal junction cable drum delivery vehicles will be required to turn right, which is a prohibited manoeuvre, and will therefore need to be undertaken with support of escort vehicles. This routing will also apply to other abnormal loads that are heavier than the A2030 Eastern Road bridge weight restriction.

### 3.5.9. SECTION 10 – EASTNEY (LANDFALL)

3.5.9.1. Due to the 50t weight limit on the Eastern Road bridge south of the A27, cable drum delivery vehicles will route through Portsmouth to gain access to Section 10. Access to Joint Bays in Section 9 from Portsmouth Cargo Terminal will be via A3 Commercial Road, A3 Marketway, A3 Anglesea Road, A2030 Winston Churchill Avenue, A2030 Victoria Road North, A2030 Goldsmith Avenue, Fratton Way, Rodney Road, A288 Milton Road and Bransbury Road. At the A288 Milton Road / A2030 Velder Avenue

/ Rodney Road traffic signal junction cable drum delivery vehicles will be required to turn right, which is a prohibited manoeuvre, and will therefore need to be undertaken with support of escort vehicles. This routing will also apply to other abnormal loads that are heavier than the A2030 Eastern Road bridge weight restriction.

### 3.6.

#### 3.6.1.1.

### **3.5. SECTION SPECIFIC CONSTRAINTS AND ISSUES**

~~3.5.1.1.~~ Table 6 details the specific constraints and issues identified ~~at this stage of the project.~~ The individual CTMPs will ~~feature~~ include specific detailed ~~including further~~ mitigation in relation to these constrains and issues that will be agreed with the relevant highway authorities.

**Table 5-6 - Cable Route Section Specific Issues and Constraints**

Section	Description	Mitigation stage	Proposed mitigation
1	Geometry of Broadway Lane junction <u>with</u> Day Lane	Design / <u>Construction</u>	Junction modification, <u>traffic management and construction traffic marshalling</u>
<u>1</u>	<u>Geometry of A3 Portsmouth Road / Dell Piece West / Catherington Lane traffic signal junction for abnormal loads</u>	<u>Design / Construction</u>	<u>Temporary Junction modification, traffic management and construction traffic marshalling</u>
<u>1</u>	<u>A3 Portsmouth Road / Lovedean Lane</u>	<u>Design / Construction</u>	<u>Temporary Junction modification, traffic management and construction traffic marshalling</u>
<u>1</u>	<u>Lovedean Lane / Day Lane</u>	<u>Design / Construction</u>	<u>Temporary Junction modification, traffic management and construction traffic marshalling</u>
2	Anmore Road open cut trench crossing	Design	Traffic management/diversions
2	Anmore Road access to haul roads / <u>HDD site due to narrow</u> carriageway width	Design / <u>Construction</u>	Temporary junction design/traffic management/construction traffic marshalling
<u>3</u>	<u>Mill Road narrow width / on-street parking</u>	<u>Construction</u>	<u>Temporary suspension of on-street parking to allow abnormal load deliveries</u>



Section	Description	Mitigation stage	Proposed mitigation
<del>5</del> <u>4</u>	Farlington Road 7.5 tonne weight restriction <u>and geometry</u>	Construction	Suspension of weight restriction / <u>traffic routing</u>
<u>5</u>	<u>Farlington Road 7.5 tonne weight restriction and geometry</u>	<u>Construction</u>	<u>Suspension of weight restriction / traffic routing</u>
<u>6</u>	<u>A2030 Eastern Road Zetland Field access</u>	Design / <u>Construction</u>	Left turn in left turn out junction <u>and / or construction traffic marshalling</u>
<u>6</u>	<u>A2030 Eastern Road / Fitzherbert Road traffic signal junction</u>	<u>Design / Construction</u>	<u>Temporary Junction modification, traffic management and construction traffic marshalling</u>
<u>7</u>	<u>A2030 Eastern Road access Farlington sports fields</u>	Design / <u>Construction</u>	No right turn out from car park to Eastern Road / <u>construction traffic marshalling</u>
<del>8</del> <u>9</u>	Eastern Avenue 5 tonne vehicular weight restriction	Construction	Suspension of weight restriction
<del>8</del> <u>9</u>	Furze Lane bus only road narrow carriageway	Construction	Bus route diversion
<u>9</u>	<u>Kingsley Road / Locksway Road on-street parking</u>	<u>Construction</u>	<u>Temporary suspension of on-street parking to allow abnormal load deliveries</u>
<del>8</del> <u>9</u>	Ironbridge Lane/Tideway Gardens too narrow for rigid HGVs	Construction	Hand carting of materials from <del>laydown area</del> <u>Laydown Area</u> .
<u>8,9,10</u>	<u>A2030 Eastern Road bridge 50t weight restriction</u>	<u>Construction</u>	<u>Vehicle routing</u>

### 3.7.

### **3.6.HGV IMPACT REDUCTION**

#### 3.7.1.1.

~~3.6.1.1.~~ The programme ~~is being~~ will be developed to minimise the overall impact on the road network, by taking account of seasonal peak traffic, events, ~~and~~ and the impact of reassigned traffic as a result of concurrent works as far as is practicable. The

~~contractors will be required to minimise the~~ impact of HGV construction traffic on the local community will be required to be mitigated. Mitigation could include, where practicable, restriction of movements at certain times of day, maximising loads to reduce vehicular trips, using local suppliers to reduce vehicular mileage, reusing bulk aggregate ~~deliveries—delivery~~ HGVs for waste spoil removal, consolidation of deliveries, ~~and the use of~~ smaller plant to minimise working widths where constraints require.

### 3.7.1.2.

~~3.6.1.2.~~ Where sections of the highway have an insufficient width for construction, HGVs should pass without reversing or overrunning the verge or footways especially on the narrow rural roads and residential roads. HGV movements will be controlled and managed (~~e.g. one-way traffic routing~~) where required to ensure conflicts do not arise or are minimised wherever possible. Special measures will be detailed in the individual CTMPs to mitigate the impact to pedestrians on roads that do not have footways, especially the rural roads.

### 3.7.1.3.

~~3.6.1.3.~~ Wheel washing facilities will be provided where ~~appropriate and the contractors will be required to ensure the~~ and public roads in the vicinity ~~are~~ will be monitored to ensure that they are not contaminated with debris that could become a hazard, ~~and will be required to have road sweeping arrangements on call. Contractors will also be required to provide dust~~ Dust suppression from the works and movement of vehicles will also be required to be provided.

## 3.8.

### **3.7. COMMUNICATION OF CONSTRUCTION TRAFFIC MOVEMENTS**

### 3.8.1.1.

~~3.7.1.1.~~ A targeted strategy ~~may~~ will be developed to inform the community and road users of ~~up and coming~~ upcoming works which ~~could~~ may be undertaken through newsletters, road signage and websites (including providing updates to various travel apps/websites). Information could include;

- Duration of works;
- Timing of the works;
- Number of construction movements; and
- Complaint procedure.

### 3.8.1.2.

Further details in relation to the required communication strategy in connection with the construction of the Onshore Cable Corridor are provided within the Framework Traffic Management Strategy (Examination Library Reference: APP-449 Rev 002).

## 3.9.

### **3.8. CONSTRUCTION WORK SIGNAGE**

### 3.9.1.1.

~~3.8.1.1.~~ A works signage strategy (including wayfinding across the project for staff) relevant to the works to be undertaken will be agreed ~~by the construction contractors and with~~ the relevant authorities in the individual CTMP's, to communicate the

construction vehicle routes to access the temporary accesses, laydown areas and compounds. The use of communications technology to ensure efficient staff movements will be explored.

## 4. CONSTRUCTION WORKFORCE

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### 4.1. OVERVIEW

4.1.1.1. The Proposed Development is expected to have a maximum of 150 construction workers for Converter Station plus 50-60 construction workers for construction of the Onshore Cable ~~Corridor~~ Route at the peak construction year. It is anticipated that up to six construction gangs will be working concurrently along sections of the Onshore Cable Route, ~~plus a~~ and construction ~~gang a~~ Landfall may also take place at up to three HDD locations simultaneously. Mitigating the number of vehicular trips generated by construction staff travelling to and from their place of work and between work site locations is a key objective of the individual CTMPs.

### 4.2. CABLE ROUTE CONSTRUCTION WORKERS

4.2.1.1. ~~It is anticipated that there will be~~ Up to six construction worker gangs working on the Onshore Cable Route will be permissible at any one time, in addition to those at ~~the Converter Station Area and Landfall~~ up to three HDD locations. The Converter Station will act as the main site compound for all construction workers associated with the Onshore Cable Route. This means that construction workers will generally travel to the Converter Station at the start of each day before being transported to site via minibus or works van where practicable, noting that opportunities to reduce construction worker vehicle trips included in Section 4.3.

~~4.2.1.2. Working hours for the installation of the Onshore Cable installation are Monday to Friday, 07:00-17:00 and Saturday typically 08:00 to 13:00; and for the construction of the Converter Station are 08:00-18:00 Monday to Friday and Saturday morning typically between 08:00-13:00. There will be some working outside these hours, for example to undertake trenchless techniques on the Onshore Cable Route (12 to 24 hour shifts), reduce duration of works in some locations; accommodate delivery of abnormal loads and minimise traffic impacts or overnight to limit daytime disruption. Working hours for the Marine Cable installation will be 24 hours~~

~~4.2.1.3. The final working hours and associated traffic movements will be agreed with the planning authorities.~~

### 4.3. STAFF TRAVEL PLANNING STRATEGY

4.3.1.1. This Framework CTMP provides a ~~guide~~ framework to enable the production of the individual CTMPs ~~by the contractors~~. Measures to encourage the use of sustainable modes will be encouraged and promoted ~~by in~~ the ~~contractor in their~~ individual CTMPs. Examples of potential mitigation and management measures ~~;-~~ include:

- Minibuses ~~could/~~ construction LGVs will be provided to transport staff to sites as required from the ~~main~~ construction compound ~~and collection from transport hubs (railways stations and bus terminals)~~ at the Converter Station. Consolidating all trips to one location will aid the promotion of travel to work by sustainable ~~models~~ modes, for example, it could provide greater potential for car sharing options;
- A shuttle bus service(s) will operate between the main local transport hubs (Havant Railway station and Waterlooville town centre) and local hotels where construction workers are accommodated to avoid the need for workers to drive to the Converter Station Area construction compound. This service will be kept under review during the construction period to ensure that is providing an effective mitigation of private car trips.
- Parking ~~can~~ will be controlled and prevented at construction sites to ensure construction workers do not park inappropriately on surrounding roads causing nuisance to residents. This will be managed by ~~the contractor~~ construction workers being transported to site via minibus / works LGV either directly from local accommodation or Converter Station Area compound wherever practicable;
- Parking will be controlled at HDD compounds through provision of a small suitable parking area to allow for construction workers with atypical shift patterns
- Information boards ~~could~~ will be used at the construction compounds detailing public transport information to encourage sustainable travel and to hubs where collection by minibuses is possible;
- ~~Provision could be proposed for secure~~ Secure cycle parking will be provided at construction compounds;
- Welfare facilities at work sites such as canteens will ~~prevent~~ reduce the need to travel during the working day; and
- ~~Measures to encourage sustainable~~ Sustainable travel ~~should be used~~ measures, including car sharing ~~/a specific ride share app for staff to use on the project,~~ will be encouraged.

4.3.1.2. A Framework Construction Worker Travel Plan is contained within Appendix 6.

## 4.4. **STAFF WORKER COMMUNICATION STRATEGY**

### 4.4.1. **STAFF WORKER INDUCTION**

~~4.4.1.1. The contractors will be encouraged to provide a comprehensive staff induction for staff associated with each phase of the works.~~

4.4.1.1. All construction workers will complete a staff induction meeting to familiarise them with requirements of the construction process. As part of this induction an information

pack will also be provided to all workers, which will include the following information relevant to construction travel and traffic:

~~4.4.1.2. Development of an information pack that will be distributed to all contractors, sub-contractors, hauliers and any staff associated with the project will be promoted. This would provide key information including;~~

- ~~• Permitted ~~construction vehicle~~ HGV routes;~~
- ~~• HGV timing restrictions;~~
- ~~• Site rules for the Converter Station and all other construction locations;~~
- ~~• Driver behaviour requirements;~~
- ~~• ~~Site rule and site traffic~~ Traffic incident management; plan; and~~
- ~~• ~~Location of holding areas; and~~~~
- ~~• CTMP Contact information: (emergency and non-emergency).~~

~~4.4.1.3. Construction vehicle recognition through the use of unique identification plates could be implemented. This could allow vehicles for the construction works to be more easily identified by site staff and members of the public to aid complaints procedure.~~

## 5. TEMPORARY SITE ACCESSES

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### 5.1. OVERVIEW

5.1.1.1. Locations for site access to haul roads and compounds from the public highway are required. These will be designed to ensure they are safe and delay and impact to the public is minimised.

### 5.2. DESIGN, MANAGEMENT AND MITIGATION

5.2.1.1. Any site access will be designed ~~based around the~~ taking into account existing constraints including speed limit, highway width, traffic restrictions, traffic flows and visibilities. In some cases where geometry and sight lines are limited it may be necessary to temporarily reduce the speed limit ~~with a traffic regulation order in~~ proximity to the entrance via a Traffic Regulation Order. Each access will be designed to comply with the appropriate design guidelines (DMRB, HCC/PCC design standards).

5.2.1.2. ~~A general principle will be to ensure that all~~ All vehicles ~~entering and exiting do so will~~ enter and exit via a site access in forward gear, other than in exceptional circumstances, in which case any reversing required will only be undertaken with the aid of a banksman and vehicle warning equipment. Layouts will ensure that vehicles can be checked and rejected if necessary off the public highway or in an area that is demarcated from the public highway. All site accesses will be laid out to avoid vehicles queuing back on to the highway.

5.2.1.3. ~~Some site accesses will segregate construction traffic while other, particularly, the main compounds, will allow access for~~ Parking of private vehicles of the construction work force ~~will be only permitted within a specifically designated location within the Converter Station Area.~~

5.2.1.4. The design of all highway accesses is to be required to be agreed with the relevant highway authority before the commencement of works in relation to the relevant phase of works which the access is required in connection with, and a plan of the accesses anticipated to be required is contained within Appendix 4.

~~5.2.1.4. All designs and locations of site access will be agreed with the appropriate highway authority and a plan of the anticipated access is contained within Appendix 4.~~

### 5.3. SITE ACCESS LOCATIONS

5.3.1.1. The following site accesses have been identified through the proposed design for the ~~onshore cable route.~~ Onshore Cable Corridor, all of which are identified on the Access and Rights of Way (AROW) Plans (Examination Library Reference: APP-011 Rev 02)

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### 5.3.2. SECTION 1 LOVEDEAN (CONVERTER STATION)

5.3.2.1. A site access which will become a permanent access ~~with~~ will be situated on Broadway Lane just south of the junction with Day Lane. This will provide access to the Converter Station and the fields between the Converter Station and Anmore Lane (as shown in Appendix 2) via an internal haul road. This is shown as point AC/1/a, AC/1/b and AC/1/c on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

### 5.3.3. SECTION 2 – ANMORE

5.3.3.1. The site access in Section 1 and internal haul road will be utilised as the access point. There will be a required crossing of ~~the unnamed road~~ Broadway Lane between Anmore Lane and Edney's Lane. However, construction traffic will not be allowed to use this road owing to its narrow nature and geometry which is only suitable for small vehicles. The crossing of Broadway Lane is shown as points AC/1/d and AC/1/e on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

### 5.3.4. SECTION 3 – DENMEAD/KINGS ROAD MEADOW

5.3.4.1. An access will be required from Anmore Road to the agricultural fields to the north and south into Kings Pond Meadow via an existing gate. This southern access will be utilised as an entry and exit for the HDD ~~-5~~ compound. This is shown as points AC/2/a and AC/2/b on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

### 5.3.5. SECTION 4 - HAMBLEDON ROAD TO FARLINGTON AVENUE

5.3.5.1. An access will be made from ~~Hambledon~~ B2150 Hambledon Road north-west of the junction with Soake Road in ~~the Kings Pond Meadow and will be used as an entry point for the HDD compound.~~ Access may be required to the north and south of B2150 Hambledon Road at this location, depending upon the final alignment of the Onshore Cable Route and its construction methodology. This is shown as points AC/3/a and AC/3/b on the AROW Plans (Examination Library Reference: APP-011).

5.3.5.2. An access may also be required from the B2150 Hambledon Road into the Billy's Lake public open space car park. This however would only be required if use of the existing car park access is deemed impracticable during construction of the Onshore Cable Route. This is shown as point AC/3/c on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

5.3.5.3. ~~5.3.5.2.~~ An access will be required to the triangular plot of land that ~~will~~ may serve as a ~~laydown area~~ Laydown Area on A3 London Road opposite No. 200 and 208 London Road, ~~Waterlooville~~ Waterlooville. This is shown as point AC/4/a on the AROW Plans (Examination Library Reference: APP-011 Rev 02).



5.3.5.4. ~~5.3.5.3.~~ The car park on the southside of Portsdown Hill Road near Hilltop Crescent will be utilised for construction purposes and will require the height restriction barrier to be removed. This is shown as point AC/6/a on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

### 5.3.6. SECTION 5 – FARLINGTON

~~5.3.6.1. No accesses are proposed on this section.~~

5.3.6.1. An access will be required into the Portsmouth Water land to the south of Eveleigh Road as shown in point AC/6/b on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

### 5.3.7. SECTION 6 – ZETLAND FIELD & SAINSBURY'S CAR PARK

5.3.7.1. An access to the works in Zetland Field will be required. ~~Due to the central reservation on A2030 Eastern Road, this access will be left-turn-in and left-turn-out~~ as shown on point AC/7/a on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

5.3.7.2. There will be a construction compound in the Sainsbury's car park for the reception pit of Trenchless solution under the south coast railway embankment from Farlington Playing Fields. However, this access will be made from within the Sainsbury's car park (private).

### 5.3.8. SECTION 7 – FARLINGTON JUNCTION TO AIRPORT SERVICE ROAD

5.3.8.1. The Farlington Playing Fields construction works will be assessed from ~~its~~ A2030 Eastern Road and the Farlington Playing Fields access road which is ~~privately owned and~~ not adopted public highway.

5.3.8.2. The HDD compound at the land adjacent to Kendall's Wharf will utilise the existing access to the land at point AC/8/a as shown on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

5.3.8.3. Access to the sports pitches south of the Tudor Sailing Club may also be required at points AC/8/b and AC/8/c as shown on the AROW Plans (Examination Library Reference: APP-011 Rev 02)

### 5.3.9. SECTION 8 – EASTERN ROAD (ADJACENT TO GREAT SALTERNS GOLF COURSE) TO MOORINGS WAY

5.3.9.1. Access may be required for the area of greenspace located immediately south of the Harvester Restaurant car park, as shown on point AC/8/d on the AROW Plans (Examination Library Reference: APP-011 Rev 02).

- 5.3.9.2. ~~5.3.9.1. To access the northern section of~~ If the final alignment of the Onshore Cable Route uses Milton Common, it is intended to to the contractor may use the East Solent Coastal Partnership (ESCP) compound that will be used as part of the current sea defence works in this area, if this is no longer required by ESCP. This will be accessed from the A2030 Eastern Road south of the ~~Langston-Langstone~~ Langstone Harbour viewing car park once their works are completed in October 2022 ~~and is shown on point AC/9/a on the AROW Plans (Examination Library Reference: APP-011 Rev 02).~~
- 5.3.9.3. Should the Onshore Cable Route alignment use the western and southern boundary of Milton Common an additional construction access will also be required at point AC/9/d on the A2030 Eastern Road as shown on the AROW Plans (Examination Library Reference: APP-011 Rev 02).
- 5.3.10. SECTION 9 – MOORINGS WAY TO BRANSBURY ROAD**
- 5.3.10.1. Should the Onshore Cable Route alignment use the western and southern boundary of Milton Common a construction access will also be required at point AC/9/b on Moorings Way as shown on the AROW Plans (Examination Library Reference: APP-011 Rev 02)
- 5.3.10.2. ~~5.3.10.1. If the option to follow the~~ The route through Milton Common or the University of Portsmouth playing fields to Longshore Way ~~is utilised, then the turning head and pedestrian gate access to the playing field will be utilised as a construction access point.~~ requires access from Moorings Way where it meets Sanderling Road and Furze Lane and from Longshore Way. This is shown as points AC/9/c, AC/9/e and AC/10/a on the AROW Plans (Examination Library Reference: APP-011 Rev 02).
- 5.3.10.3. ~~5.3.10.2. The~~ The car park to the rear of the Thatched House public house from Locksway Road will be utilised for construction access ~~to HDD-2~~
- 5.3.10.4. ~~5.3.10.3. A construction access from Kingsley Road to the common land south of the allotments will~~ also be required for ~~the horizontal directional drilling works.~~ HDD-2 as shown on points AC/10/b and AC/10/d on the AROW Plans (Examination Library Reference: APP-011 Rev 02).
- 5.3.10.5. ~~5.3.10.4. The car park access from Bransbury Park from Bransbury Road will be utilised and require the height restriction barrier to be removed.~~
- 5.3.11. SECTION 10 – EASTNEY (LANDFALL)**
- 5.3.11.1. The existing car park off Fort Cumberland Road, which is the Landfall and ORS will be utilised for construction access ~~as shown on point AC/10/c on the AROW Plans (Examination Library Reference: APP-011~~ Rev 02)

## 6. REQUIRED HIGHWAY INTERVENTIONS

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### 6.1. OVERVIEW

- 6.1.1.1. The planning stage has identified interventions in Section 1 at the Converter Station access and Day Lane that will be required to facilitate the construction of the ~~Onshore Cable Route~~ Proposed Development. The individual CTMPs may identify further interventions that alleviate narrow/constrained roads and ~~junction which junctions with~~ geometry that cannot accommodate the manoeuvring of larger vehicles. ~~These~~ This will ~~also seek to~~ also allay any safety concerns regarding visibility and sight lines. Traffic management measures will be implemented to ensure general traffic can continue to flow safely and effectively around the construction sites ~~for the Interconnector~~ related to both the Converter Station and Onshore Cable Route, as well as ensuring construction vehicles can access the relevant worksites safely and with limited delay.
- 6.1.1.2. This Framework CTMP provides an overview of the interventions that have been identified at this stage. The individual CTMPs ~~to be prepared by the construction contractors~~ will include detail design and independent safety auditing. All will require approval by the ~~appropriate~~ relevant Highway Authority.

### 6.2. INTERVENTIONS IDENTIFIED

- 6.2.1.1. The following measures will be required.

6.2.2. **SECTION 1 – LOVEDEAN (CONVERTER STATION AREA)**  
**Converter Station Access Junction**

- 6.2.2.1. ~~6.2.2.1.~~ The geometry of the Broadway Lane/Day Lane junction has been identified as a constraint by the design team, third parties during consultation and the abnormal load contractor (as shown in Appendix 5A of the Supplementary Transport Assessment [document reference number: 7.8.1.11]). The geometry of the junction cannot be eased owing to the location of existing electrical cable jointing. Therefore, ~~a new construction access road is proposed to 'smooth' the corner. It will also serve as a construction traffic holding area as shown on the construction access drawing included in Appendix 2. It is intended that the infrastructure other than the permanent site access will be removed when construction is complete.~~ to provide a permanent access junction and facilitate construction there will be an upgrade of the junction of Broadway Lane and Day Lane, which will include the construction of a Haul Road and temporary holding area that 'smooths' the corner for large vehicles.
- 6.2.2.1. As can be seen in drawing AQD-WSP-UK-OS-DR-Z-200215, the proposed Haul Road and temporary holding area comprise a new link to be provided between Day Lane, east of the existing bend, and at Broadway Lane, south of the existing bend. This will provide a managed facility for vehicles entering the Site during the Construction Stage with vehicle movements across Broadway Lane able to be marshalled. This link also accommodates HGV / abnormal load movements and would be retained as a permanent feature (unadopted) to allow future access for such vehicles where required in connection with the operation and maintenance of the Converter Station. However, as is stated in paragraph 1.2.11.3 of the Transport Assessment (APP-448), HGV, Abnormal Loads or AILs will only be required to travel to the Converter Station site in the event of major equipment failure.
- 6.2.2.2. General verge / vegetation cutting back will be required on all sides of Broadway Lane within the bounds of the highway to ensure that adequate visibility splay requirements are met, with all required land falling within the Order Limits, as confirmed by drawing AQD-WSP-UK-OS-DR-Z-200215, included in Appendix 2 and the Indicative Landscape Mitigation Plan (APP-281). The power to carry out such works is included within Paragraph 10 of the Draft Development Consent Order (Examination reference: APP-019).
- 6.2.2.3. It should be noted that the proposed Haul Road is to be gated at both the junction with Day Lane and the junction with Broadway Lane, with construction vehicles only being able to gain access via dedicated banksmen.
- 6.2.2.4. In order to discourage vehicles from entering and exiting the Converter Station from the south during the Operational Stage (construction traffic movements will not be permitted to make use of this route under banksman control), the following design alterations have been included:

- A 'no right turn' sign will be placed on the Converter Station access approximately 10m from the junction with Broadway Lane to inform drivers that this movement is prohibited; and
- The radii on the southern side of the access road has been reduced from 10m to 1m to discourage vehicles from turning left into the Site from Broadway Lane.

6.2.2.5. In addition to these design features, an access strategy document will be produced for the Operational Stage that defines how maintenance vehicles should access the Converter Station. This will include an access route plan, which will follow the same principles as the construction traffic route included within the CTMP.

#### Management of HGVs on Day Lane

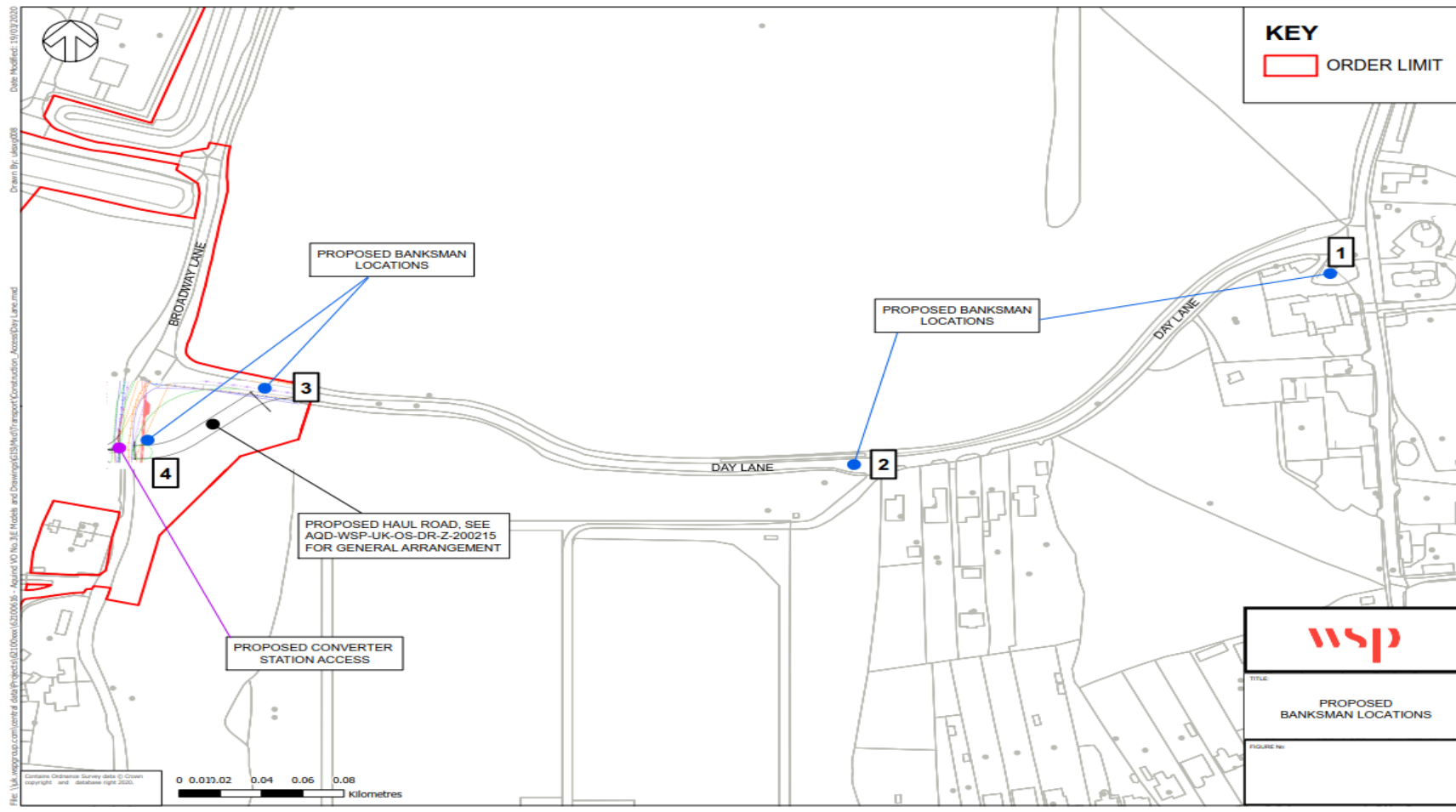
6.2.2.6. ~~6.2.2.2.~~ It has been identified within the Supplementary Transport Assessment ([document reference number: 7.8.1.11] that in places the effective carriageway width of Day Lane between Lovedean Lane and Broadway Lane ~~has been identified that in places it may is~~ not be wide enough for two HGVs to pass, ~~as shown on swept path analysis included in Appendix 6.~~ This will be mitigated with a combination of regular maintenance and traffic management. Regular 'siding' within the highway boundary will take place to clear the earth that has fallen on to the carriageway edges from the unrestrained verges to ensure maximum carriageway width is maintained. This will include regular cutting back of the verge vegetation. ~~Traffic management can also be utilised for sections where the width remains a concern. At this stage, this has been identified as the 270m section located between east of the proposed construction traffic link road (before the s-bends) and the eastern end of the row of residential properties. Shuttle working traffic signals are proposed. The shuttle working traffic signals would only need to be operational during permitted times when HGVs travel to/from the Converter Station.~~ within the highway boundary.

6.2.2.7. Management of access to the proposed Haul Road will be provided during the Construction Stage through the use of coordinated banksmen and the use of STOP/GO boards. This control will ensure the meeting of two construction vehicles travelling along Day Lane is prevented.

6.2.2.8. The movements of all HGVs accessing and egressing the proposed Converter Station Area will be coordinated by banksmen. Banksmen will be located at four locations, details of which are set out below and in Plate 6, to allow the arrivals and departures of construction traffic to be coordinated, such that there will not be instances where HGV's approaching from opposite directions will meet one another on Day Lane. These four locations are as follows:

1. At the eastern entrance to Day Lane, in the vicinity of the Bird in Hand Public House;
2. Day Lane in the vicinity of the existing Solar Farm access road;

3. At the eastern access point of the haul road on Day Lane; and
4. At the western access point of the haul road at Broadway Lane, in the vicinity of the Converter Station access.



**Plate 6 - Proposed banksman locations - will be replaced with full page image when issued as PDF**

- 6.2.2.9. The four banksmen will remain in contact at all times using telecommunication devices during the movement of construction vehicles on Broadway Lane and Day Lane to ensure a coordinated approach to traffic management.
- 6.2.2.10. Banksman 1, located at the eastern entrance to Day Lane, will notify banksman 3 when an HGV has entered Day Lane and is travelling westbound towards the Site access. This notification will prevent banksman 3 from releasing an egressing HGV from the holding area within the Haul Road until the accessing vehicle has also entered the holding area. This proposed coordination of banksmen will prevent a conflict of HGVs occurring on Day Lane.
- 6.2.2.11. It should be noted that construction vehicles travelling towards the Converter Station Area westbound will be given priority over those travelling eastbound to prevent the need for HGVs to be held on Day Lane in proximity to the junction with Lovedean Lane. This will mean that HGVs will only be held at this location if an HGV has already passed banksman 3 and 2 located on Day Lane. This is because there is limited capacity for passing of HGVs in the vicinity of the Day Lane / Lovedean Lane junction.
- 6.2.2.12. Banksman 4 is to be located at the Broadway Lane entrance of the proposed Haul Road. This banksman will temporarily halt traffic on Broadway Lane when a construction vehicle is travelling across the highway between the Site entrance and the Haul Road.
- 6.2.2.13. In some limited locations, the width of Day Lane may make it difficult for a standard car or LGV and an HGV to pass. This will be mitigated using a combination of regular maintenance discussed in paragraph 6.2.2.7 and traffic management set out below:
- The majority of locations where an HGV and car cannot pass one another are located on the western side of Day Lane in location where there is good forward visibility. In these locations, it is expected that an informal give-way system will take place as commonly occurs along rural roads of a similar nature to Day Lane. In such situations, opposing vehicles stop on carriageway where safe to do so and wait until the oncoming vehicle has passed the point of conflict.
  - Towards the east of Day Lane visibility decreases. In the vicinity of the residential properties on this link, there is a narrow section a car and HGV would not be able to pass one another. In order to ensure conflicting vehicle movements do not occur on the eastern part of Day Lane, it is proposed that one-way shuttle working would be maintained via STOP/GO boards operated by the both the first and second banksmen in coordination with one another. These STOP/GO boards will simulate shuttle working for this approximately 300m link when HGV construction traffic is on this section of Day Lane.



### Lovedean Lane

#### 6.2.2.14.

~~6.2.2.3.~~ A section of approximately 50 metres length of Lovedean Lane between the junction with Day Lane and New Road has also been identified as an area that may not be wide enough for two HGVs to pass as shown on swept path analysis included in Appendix 6. In this location the road has no defined edge and the verges are earth and unrestrained. A centre line has not been provided. South of New Road, Lovedean Lane enters the residential conurbation and has a hard kerb edge increasing the effective width and a centre line is provided. For the identified narrower section, similarly as described above for Day Lane, regular 'siding' will take place and cutting back of the verge within the highway boundary to ensure the maximum carriageway width is available. The section is short and straight and drivers could be expected to priority work as they would on any narrow road or when an obstruction is met.

### **6.3. TRAFFIC MANAGEMENT**

#### 6.3.1.1.

Traffic management will be required for the construction of the entire Onshore Cable Route on the highway network and this will be laid out to the requirements of the TSRGD 2016 Chapter 8. ~~A separate report (Appendix 6 (The Framework Traffic Management Strategy (Examination Library Reference: APP-449 Rev 002) of Appendix 22.1 (Transport Assessment) has been prepared that~~ details the requirements for traffic management in connection with the construction on the Onshore Cable Route.

## 7. MANAGEMENT OF ROAD SAFETY

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### 7.1. OVERVIEW

7.1.1.1. This section details strategy and measures that will be taken to ensure road safety is maintained during the ~~construction~~Construction Stage. Highway condition is related to road safety and therefore included in this section.

### 7.2. EXISTING COLLISION RECORD

7.2.1.1. The existing collision record has been assessed in ~~Appendix 22.1 (Transport Assessment)~~. ~~Roads that had a higher than average collision rate were assessed in more detail to understand if the road infrastructure was contributing. If the collision rate 25% higher than the national average injury collision rate further analysis was undertaken. If areas of concern were highlighted then further analysis was undertaken~~the Supplementary Transport Assessment [document reference number: 7.8.1.11], taking account of the construction traffic routes to / from the Converter Station Area, Onshore Cable Corridor and wider highway network that may be impacted by construction of the Proposed Development. No issues in relation to the existing highway layout or geometries were identified as part of this assessment.

### 7.3. LIAISON, MONITORING AND MITIGATION

7.3.1.1. Near misses or collisions resulting in personal injury from construction traffic associated with the ~~cable route construction traffic~~Proposed Development will be monitored throughout the programme to identify areas for improvements. A road safety and liaison officer will be appointed and be responsible for continuous monitoring of traffic management and signage. They will make improvements where necessary within the confines of the temporary Traffic Regulation Orders (~~TRO's~~TTRO's) and liaise with the highway authorities. They will also respond to public concerns and contact details will be provided.

7.3.1.2. The road safety liaison officer will also be responsible for the continual monitoring of ~~the road works for~~traffic management measures required to facilitate construction of the Onshore Cable Route to ensure the proactive management of road safety. It will be ensured there is sufficient road signage to warn the public and inform construction related traffic to ensure compliance and route choice. There will also be contact telephone numbers for members of the public to raise concerns ~~as well as~~and the provision of a website will be explored. Receptors that attract vulnerable people will be updated on a regular basis (e.g. schools) as necessary.

- 7.3.1.3. If during the construction localised mitigation measures are required these will be agreed with the relevant highway authorities and incorporated in to the individual CTMPs.

## 7.4. HIGHWAY CONDITION

- 7.4.1.1. Highway condition is closely related to road safety and construction traffic, particularly HGVs can have a negative impact to road condition. Therefore, it is proposed before and after construction pavement condition surveys are undertaken and to assess whether construction activities have resulted in worsening road conditions. The highway condition surveys would include the following:

- A photographic record of the condition of the extents of roads identified above as impacted by construction works or traffic routes;
- A summary table giving a brief description of visible defects where identified;
- A drawing indicating the approximate location of photographs / defects on plan;
- A short statement outlining the methodology and provide a summary of the findings;
- A meeting with HCC / PCC on site to agree findings of the report and make any reasonable adjustments; and
- A post works report covering the same information and identifying new defects.

- 7.4.1.2. Weekly conditions surveys will also be produced during the works programme to identify areas that are worsening and will become a hazard to other road users that require immediate action.

## ~~8. IMPLEMENTATION AND MONITORING~~

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## **8. ENFORCEMENT OF HGV MOVEMENTS**

### **8.1. OVERVIEW**

8.1.1.1. For a CTMP to be ~~effective~~effective a robust monitoring process is required to ensure compliance. This section provides details of management techniques that will be used. To ensure effective management, the principal contractor will appoint a dedicated staff member as responsible for the monitoring and enforcement of construction traffic movements to and from the Proposed Development, using the tools and measures identified in this section.

### **8.2. CONSTRUCTION STAFF INDUCTION**

8.2.1.1. All construction staff would complete a staff induction meeting to familiarise all workers with requirements of the construction process. As part of this induction an information pack will also be provided to all contractors, which will include the following details:

- [Permitted HGV routes;](#)
- [HGV timing restrictions;](#)
- [Site rules for the Converter Station and all other construction locations;](#)
- [Driver behaviour requirements;](#)
- [Traffic incident management plan; and](#)
- [CTMP Contact information \(emergency and non-emergency\).](#)

### **8.3. HGV ROUTE SIGNAGE**

8.3.1.1. Temporary route signage will be installed at key locations on the local highway network to direct construction traffic along permitted routes agreed with the relevant highway authority and as included in Section 3 of this CTMP.

8.3.1.2. The design and locations of these signs would be agreed with the local highway authority prior to installation and would be used to denote routes to and from the Converter Station and cable route construction locations. This would include routes to temporary off-carriageway vehicle access locations where appropriate.

### **8.4. CONSTRUCTION VEHICLE IDENTIFICATION**

8.4.1.1. All construction vehicles associated with the Proposed Development will be

identifiable through the use of a dedicated nameplate located on the outside of the vehicle. This will allow vehicles to easily be identified on the local highway network and at site access locations.

## 8.5. ENFORCEMENT AND CORRECTION MEASURES

8.5.1.1. All incidences of non-compliance with measures contained within the CTMP will be investigated by the principal contractor and documented on a Complaints Register, which will include time, date and nature of complaint and the action taken to resolve it. The contractor will also hold meetings with the local highway authorities and relevant stakeholders (e.g. parish councils) and review / update individual CTMPs where it is considered necessary to implement additional mitigation measures.

8.5.1.2. In addition, the Applicant will ensure that contractor behaviour and performance is monitored and enforced, and where appropriate that corrective measures are utilised to resolve issues and improve performance.

## 8.6. ~~8.2.DETAILED~~ INDIVIDUAL CTMPs

8.6.1.1. ~~8.2.1.1.~~ This ~~Outline-Framework~~ CTMP will form the ~~framework-basis~~ for individual CTMPs to be produced ~~by the contractors once they are appointed~~. These will ~~then~~ be approved by the relevant Highway Authority. ~~These~~ The individual CTMPs will provide details of;

- Construction vehicle routing;
- A highway condition survey of all routes proposed and accesses;
- ~~Read~~ Details of road closures / traffic management measures;
- Specific details regarding abnormal loads ~~if any~~;
- Details of the interventions to the highway that are required to enable construction works (permanent or temporary) and reinstatements;
- Specific details regarding traffic management and construction management of vehicle movements such as temporary signage, requirements for a banksman or escort vehicles, wheel washing, ~~shuttle buses etc.; and etc;~~
- Details of monitoring and enforcement measures, including contact details for the member of staff responsible for these tasks; and
- Details of construction staff travel arrangements ~~/~~ travel plan.

8.6.1.2. ~~8.2.1.2.~~ The works will be broken down into a number of ~~sections which may result in multiple contractors being appointed~~ phases. This will result in a number of individual CTMPs being prepared to cover different ~~sections~~ phases and also stage of works which could include;

- Enabling and permanent works; and
- Specific works including Landfall, landfall head house, the Onshore Cable Route, construction compounds, HDD, Trenchless Solutions at the south coast railway, and the Converter Station works.

## 8.7. **8.3.COMPLIANCE AND MONITORING**

~~8.3.1.1. Responsibility for monitoring and compliance will lie with the Applicant. They will ensure that the construction contractors produce final CTMPs that are compliant and ensure their obligation to monitor is understood.~~

8.7.1.1. **8.3.1.2.** Several key points of contact will be made for the project who will liaise with relevant planning/highway authority and ensure coordination between contractors for all the section of works during the entire construction programme. This will facilitate a clear communication channel to ensure compliance.

8.7.1.2. **8.3.1.3.** The individual CTMPs will provide details of the monitoring process and who is responsible with contact details. These will be developed and agreed with the relevant ~~planning authority~~ Highway Authority.

# Appendix 1 – Order Limits





# Appendix 2 – Converter Station Access Drawing

# Appendix 3 – Construction Programme

# Appendix 4 – Sensitive Receptors and Temporary Access Locations

# Appendix 5 –

# ~~Abnormal Indivisible~~

# ~~Load~~

# ~~Study~~ Construction

# Traffic Routes



# Appendix 6 – ~~Swept~~ ~~Path~~

# ~~Analysis Appendix 7~~

# – Framework

# Construction Worker Travel Plan







Comparison Details	
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Comparison Time	4.83 seconds
compareDocs version	v4.3.300.65

Sources	
Original Document	AQUIND Framework CTMP FINAL FORMATTED.docx
Modified Document	AQUIND Framework CTMP Revision 002.docx

Comparison Statistics	
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Deletions	223
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Paragraph Style Changes	0
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TOTAL CHANGES	1151

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Include Change Detail Report	Word	Separate
Document View	Word	Print
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Flatten Field Codes	Word	False