

Appendix 6 to Hornsea Three's Response to the SoS' Minded to Approve Letter:
Outline Construction Traffic Management Plan (clean)

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Glossary

Term	Definition
Onshore elements of Hornsea Three	Hornsea Three onshore cable corridor, the onshore HVAC booster station, the onshore HVDC converter/HVAC substation and the interconnection with the Norwich Main National Grid substation.

Acronyms

Acronyms	Description
AIL	Abnormal Indivisible Loads
CoCP	Code of Construction Practice
CTMP	Construction Traffic Management Plan
DCO	Development Consent Order
НА	Highway Authority
HDD	Horizontal Directional Drilling
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current
NCC	Norfolk County Council
PIA	Personal Injury Accident
PRoW	Public Right of Way

Units

Unit	Description
km	Kilometre (distance)
m	Metre (distance)



1 Introduction

1.1 Background

- 1.1.1.1 The purpose of this Outline Construction Traffic Management Plan (Outline CTMP) is to establish the principles that will be implemented by the principal contractors to minimise the adverse impacts associated with the transport of materials, plant and staff required for construction of the onshore elements of Hornsea Project Three offshore wind farm (hereafter referred to as Hornsea Three).
- 1.1.1.2 The Draft Development Consent Order (DCO) submitted with the application requires that no onshore connection works may commence until written details of a full CTMP (which accords with this Outline CTMP) has been submitted to and approved by the relevant planning authority in consultation with the relevant Highway Authority.
- 1.1.1.3 The detailed CTMP must contain details of:
 - Proposed vehicle routeing plans;
 - Any abnormal indivisible loads that may be delivered by road, or confirmation that no abnormal indivisible loads will be required for construction of the authorised development;
 - Condition surveys;
 - Any highway works proposed (including intervention schemes); and
 - Construction personnel travel.
- 1.1.1.4 This Outline CTMP is to be read alongside the Outline Code of Construction Practice (CoCP), which itself is secured through a Requirement of the Draft DCO as submitted.
- 1.1.1.5 The measures set out in this Outline CTMP relate to all areas of onshore construction activity which have been identified in Chapter 7 of the Environmental Statement (volume 3, chapter 7: Traffic and Transport) and volume 6, annex 7.1: Transport Assessment as potentially leading to significant adverse transport and traffic effects.
- 1.1.1.6 It is anticipated that this CTMP submitted with the application is "live" and will be updated through the examination of Hornsea Three. Post consent grant of the Hornsea Three DCO, this Outline CTMP will then establish the principles for all subsequent final CTMPs which will be prepared by the contractor or contractors appointed to deliver the different onshore elements of Hornsea Three. Each final CTMP will then need to be developed in consultation with Norfolk County Council (NCC) as the Local Highway Authority (LHA) and Highways England (HE), collectively referred to as the Highway Authorities (HAs), prior to submission to the Local Planning Authorities and the HAs for approval.

- 1.1.1.7 This Outline CTMP also forms part of the Outline CoCP. The draft DCO as submitted with the application requires that no phase of any works landward of MLWS may commence until, for that phase a CoCP (which must accord with the principles established in the Outline CoCP) has been submitted to and approved by the relevant planning authority, in consultation with the relevant Highway Authority (and if applicable the MMO). Post consent grant of the Hornsea Three DCO, the Outline CoCP will then establish the principles for all subsequent final CoCPs which will be prepared by the contractor or contractors appointed to deliver the different onshore elements of Hornsea Three.
- 1.1.1.8 The onshore elements of Hornsea Three is located within the districts of North Norfolk, Broadland and South Norfolk (the local planning authorities) and Norfolk County Council as the LHA.

1.2 Scope of construction activities and CTMP

- 1.2.1.1 This Outline CTMP considers site set-up, construction activities and site reinstatement for the onshore construction activities of Hornsea Three which includes:
 - Landfall works at Weybourne;
 - Onshore cable corridor (approximately 55km in length);
 - Main compound at Oulton Airfield, near Oulton Street;
 - Secondary compounds and storage areas located along the onshore cable corridor;
 - Horizontal Directional Drilling (HDD) compounds located along the onshore cable corridor;
 - Haul road along the cable corridor and access points and routes off the public highway;
 - A new High Voltage Alternating Current (HVAC) booster station at Little Barningham; and
 - A new High Voltage Direct Current (HVDC) converter/HVAC substation near Swardeston.
- 1.2.1.2 The potential adverse effects resulting from the construction activities relating to traffic and transport comprise the following:
 - Adverse effects on sensitive receptors such as schools, care homes, hospitals and residential areas with poor footway provision;
 - Adverse effect on pedestrian delay, severance, and fear and intimidation due to HGV movements;
 - Adverse effects due to possible increased risk to road users as a result of the passage of construction vehicles along existing roads or at site accesses; and
 - Adverse effects from the movement of abnormal loads associates with the construction of the HVDC converter / HVAC substation.
- 1.2.1.3 In addition, this Outline CTMP sets out proposed measures to reduce the overall level of travel and the associated emissions resulting from construction activities.



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- 1.2.1.4 Hornsea Three may be constructed in a single phase or two phases. Within each phase, there would then be a sub set of works and activities as the cable corridor work fronts make their way along the cable route and then potentially by different principal contractors, the works and activities associated with the landfall, HVAC Booster Station (if required) or HVDC Converter/HVAC substation and connection to Norwich Main are constructed. Production of multiple CTMPs will therefore be required to facilitate these construction works.
- 1.2.1.5 The following sections are included in this Outline CTMP and will be included in all final CTMPs:
 - Introduction:
 - Management of HGV Movements;
 - Abnormal Loads:
 - Management of Construction Workforce Movement;
 - Site Accesses:
 - Highway Crossings;
 - Management of Highway Safety;
 - Implementation and Monitoring of the CTMP;
 - Potential interaction between construction traffic for Hornsea Three and Vattenfall Norfolk Vanguard and how this can be managed and mitigated; and
 - Potential interaction between construction traffic for Hornsea Three and the A47 improvement works and how this can be managed and mitigated.

1.2.2 Horizontal Directional Drilling

1.2.2.1 In order to assist the reader of this Outline CTMP, a definition of Horizontal Directional Drilling is given from paragraphs 3.7.3.15 – 3.7.3.17 within the volume 1, chapter 3: Project Description of the Environmental Statement:

"HDD involves drilling a long parabolic borehole underneath the obstacle using a drilling rig located beyond the obstacle in the export cable corridor. The optimum design is for each drill to be carried out in a straight line, with pits dug at both ends of the planned drill to below the level required for the cable so the drilling rig can carry out the drill horizontally, and the ducts can be installed.

The process uses a drilling head controlled from the rig to drill a pilot hole along a predetermined profile based on an analysis of the ground conditions and cable installation requirements. This pilot hole is then widened using larger drilling heads until the hole is wide enough to fit the cable ducts. Bentonite is pumped to the drilling head during the drilling process to stabilise the hole and ensure that it does not collapse. Prior to the drilling taking place, an exit pit may be excavated passed the obstacle on the export cable route in order for the HDD profile and ducts to stop at the required installation depth for the cable.

Once the HDD drilling has taken place the ducts (within which the cable will be installed) are pulled through the drilled hole. These ducts are either constructed offsite, or will be constructed onsite along

the export cable route, then pulled though the drilled hole either by the HDD rig or by separate winches."

1.2.3 Haul road

1.2.3.1 In order to assist the reader of this Outline CTMP, a definition of haul road is given from paragraphs 3.7.2.25 – 3.7.2.27 within the volume 1, chapter 3: Project Description of the Environmental Statement:

"During the installation of the onshore cables a temporary haul road will be constructed. The haul road, 6 m wide, and extending up to the full length of the onshore cable corridor (less sections where a HDD only passes through) provides vehicular access along the cable easement off the public highway. Following completion of the works being served by that access point, the haul road will be removed and the land reinstated, unless otherwise agreed with the local planning authority. The access point would also be removed and/or no longer utilised unless otherwise agreed with the local planning authority.

The haul road will be utilised during installation and be made up of either: an average of 0.3 m of permeable gravel aggregate with a geotextile or other type of protective matting; or plastic or metal plates or grating.

To provide access to the cable corridor and limit damage to the agricultural land, the haul road will be installed as part of the preconstruction cable route works at the start of construction in that locality."

1.2.3.2 The depth of the sub-base of the haul road will be dependent on the California Bearing Ratio (CBR) of the substrata. The following table can be used as a guide to the required thickness of the granular sub-base for typical silty clay soils in reasonable condition and at normal depths. The maximum depth of the haul road would not exceed 0.5 m.

Granular Sub-Base Thickness				
CBR 2%	CBR 3%	CBR 4%	CBR 5%	
370mm	310mm	240mm	200mm	

1.2.4 Open cut trench

1.2.4.1 In order to assist the reader of this Outline CTMP, a definition of open cut trench is given from Section 3.7.3 within the volume 1, chapter 3: Project Description of the Environmental Statement, extracts of which are as follows:

"The trenches will be excavated using a mechanical excavator, and the export cables will be installed into the open trench from a cable drum delivered to site via HGV. The cables are buried in a layer of stabilised backfill material that ensures a consistent structural and thermal environment for the cables.

The remainder of the trench is then backfilled with the excavated material. Hard protective tiles, protective tape and marker tape are also installed in the cable trenches above the cables to ensure the cable is not damaged by any third party. Once the export cables are installed and the trenches



backfilled, the stored topsoil will be replaced and the land reinstated back to its previous use. Each trench section between joint bays is expected to be open for approximately one week."

2 Traffic Management

2.1 Management of HGV movements

2.1.1 Vehicle Types

2.1.1.1 A variety of vehicle types will need to access the construction sites. These will include, inter alia: low loaders to deliver plant, construction machinery, ducting and cables, trench and pit support; fencing, welfare facilities and temporary portable cabins; HGVs delivering aggregate for surfacing of compounds and haul road; tankers to deliver water for HDD and for welfare; delivery of components for the HVDC converter/HVAC substation and HVAC booster station; and removal of topsoil from the HVDC converter/HVAC substation and HVAC booster station sites.

2.1.2 Vehicle routeing

- 2.1.2.1 Likely HGV routes for construction of the onshore cable corridor are identified on Figure 1.2 of volume 6, annex 7.8: Traffic and Transport Figures. The final CTMPs will include communication with the HAs to confirm that these routes remain appropriate and are agreed for use when construction is ready to commence.
- 2.1.2.2 All contractors will be required to comply with the agreed routeing plans and will ensure that all drivers are informed of the need to restrict HGV movements to those specified routes. If in the event that complaints are received that vehicles are not following prescribed routes (or it comes apparent to the project or principal contractors, the project would then consider mechanisms to record vehicle routing, for example applying spot-checks by the developer to ensure that the agreed routes are being adhered to).
- 2.1.2.3 If deemed necessary by the Highway Authority, where routine HGV vehicle movements are generated, e.g. haul road aggregate or cable supplier, the respective suppliers will be requested to maintain a log, the purpose of which is to demonstrate compliance with following prescribed access routes and delivery times.
- 2.1.2.4 If deemed necessary by the Highway Authority, construction access routes will have temporary signs posted along the confirmed routes. This may include signs to improve pedestrian awareness of HGV movements along roads where footways are not provided or are limited. The need for such signs, and their proposed locations, would be discussed and agreed with the Highway Authority during the preparation of the final CTMP.

2.1.3 Localised restrictions

2.1.3.1 Where it is possible for two HGVs associated with the Hornsea Three works to meet on a section of highway that is of insufficient width to allow the HGVs to pass without reversing or overrunning the edge of the highway, movements of HGVs to and from construction sites will be controlled to ensure that such conflicts between HGVs associated with the Hornsea Three works do not arise.



- 2.1.3.2 The likely HGV routes for construction of the onshore cable corridor are identified on Figure 1.2 of volume 6, annex 7.8: Traffic and Transport Figures. These generally take into consideration existing HGV restrictions. However, there are some existing restrictions on the passage of HGVs over 7.5 t which will need to be used by the project. These are located at the following access route locations:
 - Link 105: Hall Road to Reepham Road junction;
 - Link 119: Marl Hill Road and Ringland Lane from A1067 to the onshore cable corridor;
 - Link 165: Bawburgh Road from the onshore cable corridor to B1108;
 - Link 166: Stocks Hill from link 163/164 to B1108:
 - Link 172: Cantley Lane from Station Lane to A47/A11; and
 - Link 181: Gowthorpe Lane.
- 2.1.3.3 In addition, there are existing signs on the road network stating that the following routes are not suitable for HGVs:
 - Links 6 to 9: Sandy Hill Lane;
 - Link 87: B1145 in Reepham; and
 - Link 100: Ketts Lane.
- 2.1.3.4 The above links pass through or lead up to urban areas with residential properties, other sensitive areas or are too narrow for accommodating two-way HGV movements and it appears to be for these reasons that there are 7.5 t weight restrictions on place or they are marked as being unsuitable for HGVs. For construction HGVs serving the project, these restrictions will be temporarily suspended over the period for which access is required.
- 2.1.3.5 In these locations, all reasonable endeavours will be made to limit the number of HGV movements on the links and to avoid damage and to avoid HGVs meeting on sections of highway where there is insufficient width to allow two HGVs to pass. In these locations, there would be discussion and agreement with the Highway Authority on mitigation.
- 2.1.3.6 No HGV movements greater than 44 tonnes, or greater than 3.3 m in width will be permitted on Link 88 and 89: B1145 (through Cawston), due to the presence of two bridges with a 44 tonnes limit and limited highway width.
- 2.1.3.7 No HGV movements will be permitted on Cantley Lane, close to the A11/A47 Thickthorn junction. Furthermore, no HGV movements will be permitted beyond the Church Lane / Dog Lane / Ringland Road junction.
- 2.1.3.8 Given the limited visibility at the existing access onto the A149, specific traffic management measures will be required. These have been identified as follows, and would be developed in further detail within the detailed CTMP (under Requirement 18 of the dDCO):
 - Signage would be provided on the A149 approaches to this access to forewarn drivers of slow moving, turning HGVs;

• The existing hedge line to the east of this access (on the north side of the A149) would be maintained, to trim back as far as is achievable within the highway verge, with a view to improving visibility to/from the east.

2.1.4 Local Sensitive Receptors

- 2.1.4.1 There are a number of local sensitive receptors which have been identified where additional traffic management measures may need to be considered during the development of the detailed CTMP in agreement with NCC as the Highway Authority. The list of sensitive receptors included are;
 - University's / Schools / Nursery's;
 - Community facilities;
 - Places of worship; and
 - Doctors and hospitals.
- 2.1.4.2 The locations of the known sensitive receptors along links utilised by Hornsea Three are described in Table 2.1. This is not an exhaustive list and consultation with NCC and other Stakeholders will be completed prior to completion of the detailed CTMP to confirm the extent of any additional receptors which should be considered when contractors and routing are known.

Table 2.1. List of Sensitivity Receptors

Link ID	Link Description	Sensitive Receptors
1	Sheringham Road (A149) from Foxhills Camping access to NSL/30 mph sign	Place of worship, campsite, store, pub
3	Weybourne Road (A149) allotments to Holway Road (A1082) roundabout	Retail and pub / leisure frontages.
8	Station Rd from Station Access to Weybourne Forest Lodge access	Holiday accommodation and tourist railway
14	Bridge Road from Rugby Club to A148	Rugby Club
29	Plumstead Road from B1149 to Cable Route	Pub/Restaurant/Hotel
33	A148 through Letheringsett	Pub, Place of worship
35	A148 between edge of Holt and B1110/1149 roundabout	High street shops, Primary School
46	A149 through Cromer from Sandy Lane to Railway Bridge	Shops, schools, church
47	A149/140 from Railway Bridge to Roughton	Caravan site
48	A140 through Roughton	Pub, Place of worship, post office, fast food restaurant
52	B1110 through Thornage	Place of worship
55	B1354 through Melton Constable and Briston	School, shops, country club
58	B1149 from edge of Holt urban area to Edgefield	Holt Country Park Access



Link ID	Link Description	Sensitive Receptors
59	B1149 through Edgefield	Public Park, public house, village hall
65	Norwich Road	School
66	Station Road and Heydon Road to edge of urban area	School
76	B1149 from Saxthorpe Roundabout to Heydon Road junction	Place of worship
78	Aylsham Road B1145 from B1149 to edge of Aylsham Roundabout	Hospital
87	B1145 in Reepham	Village centre shops
89	B1145 in Cawston	Primary school, village hall, public house
91	Reepham: Market Place, Church Hill and Norwich Rd to Reepham Fishery	Place of worship , town centre shops
105	Hall Road to Reepham Road junction	Place of worship
113	Norwich Ring Road between A1067 and A140	Shops, houses, pubs, hospital, office
116	B1149 between Shortthorn Road and A140	School, Place of worship, frontages, restaurants
117	A140 from B1149 roundabout to Norwich Ring Road	Place of worship
143	A140 between A146 and A47	School, place of worship
169	Little Melton Road and Burnthouse Lane	Rugby Club
183	B1108 between A140 and A47	Hospital, university
194	A1065 from B1146 to Massingham Road junction, Weasenham	Caravan Park, Place of Worship

2.1.5 Timing of HGV movements

2.1.5.1 For the Hornsea Three onshore cable corridor and substation core working hours are 07.00 to 18.00 on weekdays and 07.00 to 13.00 on Saturdays. Up to one hour before and after for mobilisation ("mobilisation period"), i.e. 06:00 to 19:00 weekdays and 06:00 to 14:00 Saturdays; and Maintenance period 13:00 to 17:00 Saturdays. Mobilisation does not include heavy good vehicle (HGV) movements into and out of sites, but suppliers can make use of the wider highway network outside these hours to travel to site. In certain circumstances, specific works may have to be undertaken on a continuous working basis (00:00 to 00:00 Monday to Sunday). All HGV movements which are not planned to arrive at site after any time restrictions would be required to park at an appropriate Approved Lorry Park, Motorway Services and other designated overnight parking locations.

- Other activities that will require 24-hour operation will be: site security, oil filling of transformers at the HVDC converter/HVAC substation, some work at jointing pits, some HDD activities and possible remedial works in response to severe weather events. These will be agreed in consultation with the relevant planning authorities. It may also be beneficial to carry out several activities outside of the core working hours to utilise periods such as works within the highway, footpaths and works affecting operational railways. Activities outside of the core working hours will be agreed with the relevant local authority EHO officer. However, it should be noted that not all of these activities will involve HGV movements or would generate only infrequent HGV movements e.g. site security, oil filling of transformers and so are of a different nature to the frequent HGV movements of primary consideration within this Outline CTMP.
- 2.1.5.3 Within the context of the working hours established in the Outline CoCP, any further restrictions over and above these associated with the movement of vehicles associated for the project should be limited. However, some limited further restrictions may be placed on the timing of HGV movements through locations with sensitive receptors, for example restrictions on number of HGV movements during school opening and closing hours where HGVs would travel along routes passing schools where the highway network is constrained. One such location where a restriction will be implemented is in Cawston (see section 5.4).
- 2.1.5.4 Depending on the season of construction of individual onshore cable corridor sections or components, during peak holiday seasons (considered to be June to September) the approved routing of HGVs documented in final CTMPs, if practical, may need to avoid routes marked on the Norfolk County Council Route Hierarchy Map. The Applicant will engage with Norfolk County Council to agree routing and HGV timing on key tourist links (such as the A149) during this peak period.

2.1.6 Reducing the impact of HGV Movements

- 2.1.6.1 Load sizes are typically maximised and thus vehicle usage is typically minimised by contractors in order to minimise transportation costs and this will be encouraged by the principal contractor. Site supervisors will be encouraged to re-use HGVs where practical, such as using vehicles which have delivered material to remove excavated material if this needs to be removed from a site. Where practical, local suppliers will be used to minimise the distance travelled by HGVs.
- 2.1.6.2 All HGVs transporting fine and loose material will be sheeted to avoid dust and the spillage of materials onto the highway. Dampening of surfaces, such as the haul road in locations where it is close to the public highway, will be undertaken in dry weather where the movement of vehicles or delivery of loads may cause dust.
- 2.1.6.3 Where there is a risk of mud from the construction works being transported onto the highway network by HGVs, wheel wash facilities will be provided at each construction site to ensure that HGVs do not deposit mud and dust onto the highway network. In order to minimise environmental impact upon the site and to reduce the need for water, a dry wheel 'wash' facility (rumble grids) will be used where practical, such as 'DriveOn V-Tech' solution, which is available from Eco Plant Hire. If required (and safe to operate) road cleaners may be required to be deployed along public highway in the locality of actively used site access points.



2.1.6.4 The final CTMP will identify the need for and nature of measures to be implemented to enhance pedestrian safety at locations where HGVs are routed along roads without pedestrian footways.

2.1.7 Management of Abnormal Indivisible Loads

- 2.1.7.1 It is expected that a number of Abnormal Indivisible Loads (AILs) comprising large components such as transformers will be transported to the HVAC Booster station and HVDC converter/HVAC substation sites. Furthermore, a number of AILs comprising the cable drums will be transported to the main construction compound, as well as to the onshore cable corridor.
- 2.1.7.2 The haulage contractor appointed to undertake this work will be required to comply with statutory regulations in terms of consulting with the relevant Highway Authority and the police (where required). The notification requirements differ depending on the weight, length and width of the AIL. HEs 'Aide Memoire for Notification Requirements for Movement of AILs' is provided at:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/5031 03/Aide Memoire updated Sep 2015.pdf.

- 2.1.7.3 The timing of AIL deliveries will be discussed and agreed with the Highway Authority to minimise delay for other road users and to minimise risk to highway users. The Highway Authority will dictate the timing of AIL deliveries along the highway and this may be during night time periods.
- 2.1.7.4 The weight, length and width of AILs will be communicated to the Highway Authority, and the routeing of AIL deliveries will be agreed with the H Highway Authority prior to any movements on the local road network. Where appropriate, the police and relevant highways and bridge authorities would also be consulted.
- 2.1.7.5 The delivery of AIL would typically be undertaken in convoy and under escort. Where AIL require the full width of the carriageway or for unusual manoeuvres at junctions, appropriate temporary road closures and traffic management will be put in place as appropriate to maintain the safety of other road users and minimise delay.
- 2.1.7.6 Where AIL movements to the main construction compound are planned to occur outside of core working hours, and in areas of high sensitivity (i.e. through residential areas or in close proximity to residential properties), the need for additional specific management measures will be discussed with the Highway Authority. The exact nature of the measures, as well as the locations and timings for when they will apply, will be agreed with the HE and relevant planning authority environmental health officer post-consent as part of the detailed CTMP.
- 2.1.7.7 No AIL movements from the main construction compound to the onshore cable corridor will occur during night-time hours (23:00-07:00 am).

2.2 Management of construction workforce movement

2.2.1 Construction workforce travel

- 2.2.1.1 The project recognises the value in managing and reducing the impact of the movement of construction staff. The final CTMPs approved by the Highway Authority prior to the commencement of works are to document measures that can be implemented that will encourage contactors to make use of sustainable modes where possible. These measures to be considered:
 - The control of parking on and around construction sites to avoid inappropriate parking on verges or unsuitable highways and to deter construction workers from driving to site unnecessarily;
 - Measures to increase vehicle occupancy such as incentives to car-share, information to facilitate car sharing and the provision of minibuses where this would allow construction workers to access sites without the need to come by car;
 - The provision of public transport information if this would to assist construction workers access sites or travel by bus or train to locations where they could be picked up by minibus;
 - Measures to encourage walking and cycling where these modes offer an opportunity for construction workers to access sites, including provision of temporary cycle parking at work sites;
 - Welfare facilities will be provided on work sites to reduce the need for construction workers to travel elsewhere in the course of the day; and
 - The proposed core working hours (07:00-18:00 weekdays) avoids construction workers travelling in the peak hours and thus reduces impacts on the local road network during network peak hours.
- 2.2.1.2 Engagement with Highways England has identified the A47 Taverham Road Honingham junction, A47 Easton Roundabout, A47/A1074 Longwater junction, A47/ A140 junction and B1113/A140 junction as locations which will require measures such as the above, particularly in respect to encouraging staff movements outside of the network peak.

3 Site Accesses

3.1 Design

3.1.1.1 Access locations are identified on Figure 1.2 at volume 6, annex 7.8: Traffic and Transport Figures. The final design of all site accesses will be agreed with NCC prior to the start of construction at each access point. When an access point is in use, a Temporary Traffic Regulation Order for a 30 mph speed limit will be progressed at every access where the existing speed limit is above 30mph; the extent of each restriction will vary at each access based upon the existing speed limit, road alignment, road geometries and forward visibility. Each access will meet appropriate visibility and design standards. Traffic management measures may be required at some accesses, possible types of which are discussed below.



- 3.1.1.2 Working areas will be designed to enable plant, materials and waste to be loaded / unloaded, areas will be designated as such and to enable vehicles to enter and exit in forward gear. Contractors / suppliers will not be permitted to wait on or load / unload from the public highway.
- 3.1.1.3 Working areas will be designed to enable designated parking facilities for construction workers.
- 3.1.1.4 All site accesses will be provided with appropriate fencing to ensure that work sites are secure. Some accesses would be available to all vehicle types, whilst others may be restricted to construction workforce and light vehicles only. Nevertheless, all site accesses will be designed to eliminate the risk of vehicles queuing back onto the highway by providing sufficient width close to the adjacent highway, which is appropriate to the types of vehicles anticipated to use the access.

3.2 Management and mitigation

- 3.2.1.1 Where there is a risk that vehicles will deposit mud and debris on the highway, in the vicinity of construction site accesses, wheel washing facilities will be provided (see paragraph 2.1.5.3 above). The condition of the adjacent highway will be monitored and if mud or debris is found to be present, measures such as road sweeping will be put in place by the contractor to secure its removal with minimal delay.
- 3.2.1.2 Appropriate signage will be provided on the approach to construction site accesses to warn of turning and/or slow-moving vehicles. The design and siting of all signage will be agreed with the Highway Authority prior to the start of work at each work site. Signage can also be placed at the exit of construction site access points to instruct construction traffic to follow the designated route.
- 3.2.1.3 Contact numbers will be on display for the general public to raise any concerns.
- 3.2.1.4 Within 28 days of a construction site access being no longer required for the purpose of Hornsea Three construction, or written notice being served unto the Applicant by the Highway Authority, the access will be removed and the highway returned to its original condition (including verges), unless otherwise agreed with the HAs. The details of and timescales for the reinstatement will also be agreed with the Highway Authority. It is anticipated that the HAs will inspect the reinstatement works to ensure that there meet appropriate standards.
- 3.2.1.5 There may be a need to provide traffic management measures at some accesses and at some routes to the accesses. This may be required for various reasons and the type of traffic management measures to adopt will depend upon the location on the highway, the nature and level of traffic on the highway, what is served by the highway, and the alternative routes available. Example traffic management measures include:
 - Requisite visibility splays cannot be provided at an access and so traffic on the highway may be temporarily stopped to allow HGVs to exit an access safely;
 - The highway geometries are too narrow to safely accommodate turning HGVs when exiting an access and so traffic on the highway may be temporarily stopped to allow HGVs to exit an access safely;

- The highway geometries are too narrow to accommodate HGVs passing an oncoming vehicle and so shuttle working may be temporarily installed;
- The highway geometries are too narrow to accommodate HGVs passing an oncoming vehicle and so the road may be temporarily made one-way and a local diversion put in place;
- The highway geometries are too narrow to accommodate HGVs passing an oncoming vehicle and so the road may be temporarily closed to through traffic and a local diversion put in place; and
- The highway geometries are too narrow to accommodate simultaneous turning movements through junctions and so three-way portable signal control may be temporarily installed at T-junctions or four-way portable signal control temporarily installed at crossroads.
- 3.2.1.6 Where traffic on the highway is stopped, this could be via temporary traffic signals or via manually operated stop / go signs.
- 3.2.1.7 Whilst the project provides for HDD under all public highways, if works are required on the public highway (such as to identify local utilities) the project will make use of shuttle working arrangements. Shuttle working is where one direction of travel receives priority over the other. This could be via traffic signals or via give way signs.
- 3.2.1.8 Some example layouts of these traffic management measures and features are shown on Figure 3.1 to Figure 3.6. These examples are extracted from The Traffic Signs Manual, Chapter 8, Part 1, Traffic Safety Measures and Signs for Road Works and Temporary Situations, Department for Transport / Highways Agency, 2009. The extracts are generic in nature and they are not designed to be specific to any particular location or circumstance but designed to be implemented in accordance with the advice contained within the document.



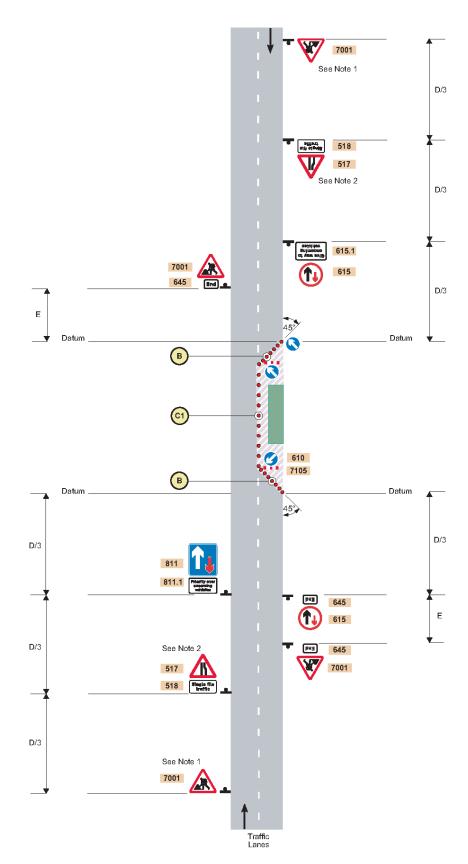


Figure 3.1: Priority signs on a two-lane single carriageway road.

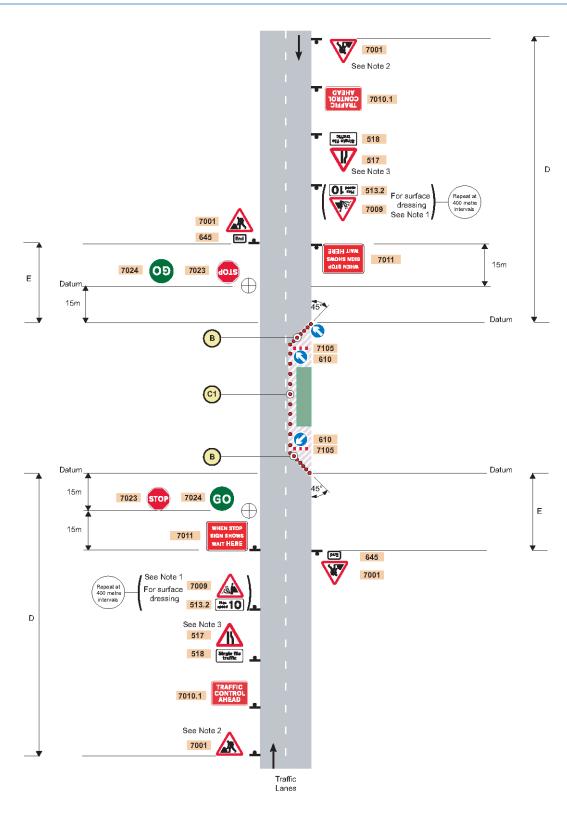


Figure 3.2: STOP/GO signs on a two-lane single carriageway road.



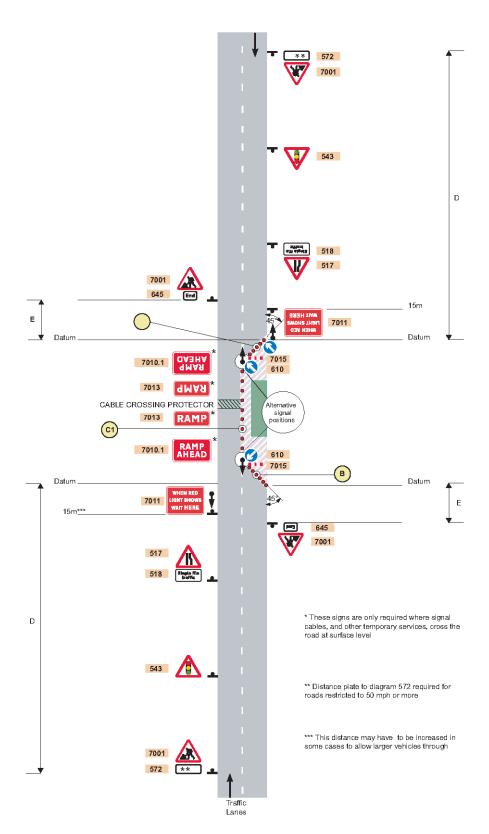


Figure 3.3: Portable Traffic Signals on a Two-lane Single Carriageway Road.

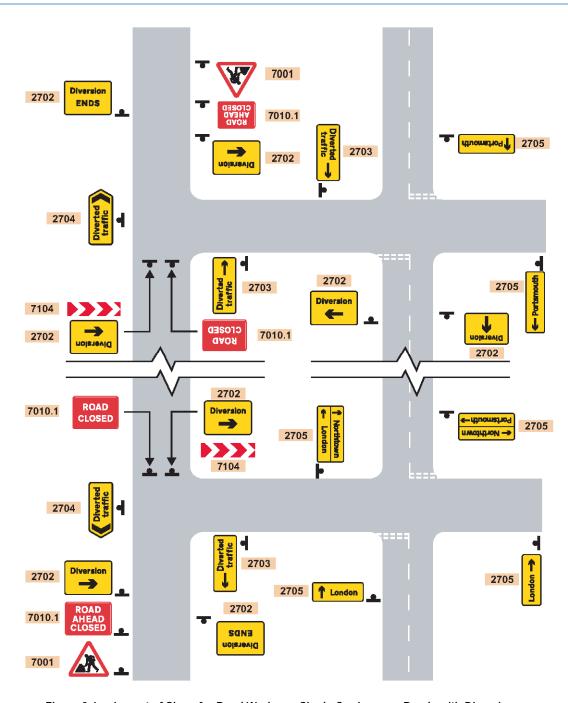


Figure 3.4: Layout of Signs for Road Works on Single Carriageway Roads with Diversions.





Figure 3.5: Manually Operated Stop/Go Signs and Priority Signs.

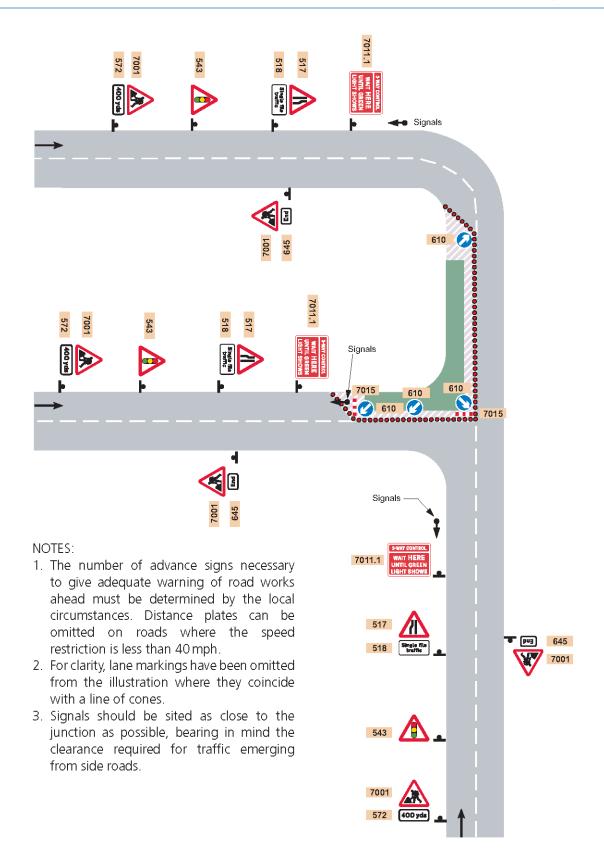


Figure 3.6: Road Works at a T-Junction – Traffic Control by Means of Portable Traffic Signals.



3.3 Permanent Access Points

3.3.1.1 Permanent Access are to be provided at two locations, the first serving the onshore HVAC booster station via the B1149 and the second serving the onshore HVDC converter/HVAC substation via the B1113. The access proposals are shown in drawings 1554_03_201B, 1554_03_202G and 1554_03_203D contained in Annex D and comprise the following key components;

Onshore HVAC booster station

- Upgrade of access to the B1149 including the installation of a temporary run over areas to be removed once all abnormal loads have been received;
- Profiling of existing land levels to improve junction visibility to north, as shown coloured buff; and
- Provision and maintenance of visibility splays as shown in drawing 1554_03_202G.

Onshore HVDC converter/HVAC substation

- Construction of a new access onto the B1113 including the installation of a temporary run over areas to be removed once all abnormal loads have been received;
- Profiling of existing land levels and replacement of hedgerow to maintain a minimum forward sightline at the site access of 180m, as shown in a green dashed line; and
- Provision and maintenance of visibility splays as shown in drawing 1554_03_201B.
- 3.3.1.2 The access proposals have been fully consulted and agreed with the relevant HAs to allow Hornsea Three to progress the final detailed design.



4 Highway Crossings

4.1 Onshore cable corridor highway crossing locations and operation

- 4.1.1.1 All crossings of the public highway will be undertaken using HDD; the details of HDD techniques and the locations of crossings are set out within the following documents which form part of the Environmental Statement:
 - Volume 1, chapter 3: Project Description;
 - Volume 4, annex 4.3.5: Crossing Schedule (Onshore); and
 - Figure 1.2 at volume 6, annex 7.8: Traffic and Transport Figures.
- 4.1.1.2 This method of cable laying means that during the HDD operation there is no disturbance (i.e. no shuttle working nor road closures) to other users of the road with the exception of material delivery and arrival / departure of construction staff.
- 4.1.1.3 There will be some locations whereby the haul road crosses the highway and where traffic management will be required or where works are required to expose existing utilities. The traffic management methods to be used will depend on the location of the highway crossing, the nature and level of traffic on the highway link being crossed, what is served by the highway link and the alternative routes available. Methods may include temporary shuttle working, crossings, or temporary closure.
- 4.1.1.4 Indicative priority, stop/go and signalled shuttle working arrangements are shown in Figure 3.1 to Figure 3.3. On lightly trafficked links, shuttle working can operate on a priority basis or be managed manually without the need for traffic signals. On busier links it is expected that temporary signals will be used.

4.2 Agreement, management and advance notification

- 4.2.1.1 Where traffic management measures are required these will be agreed in advance with the HAs.
- 4.2.1.2 Any temporary road closures / introduction of one-way roads and any diversions will be advertised in advance and alternative routes indicated through signage (example shown in Figure 3.4).
- 4.2.1.3 Where such speed restrictions are required, temporary speed reductions to 30 mph will be sought through Temporary Traffic Regulation Orders.
- 4.2.1.4 Measures will be put in place to ensure that no unauthorised access is gained to the onshore cable corridor from the highway at crossing points and that the adjacent works sites are secure.
- 4.2.1.5 Any works within the highway will be reinstated to a standard commensurate to prior to the commencement of the works, unless otherwise agreed with the HAs. The details of and timescales for reinstatement will also be and agreed with the HAs. It is anticipated that the HAs will inspect the reinstatement works to ensure that they meet appropriate standards.

4.3 Haul Road and its crossings with the highway

- 4.3.1.1 Up to two temporary haul roads will be constructed (typically one per phase see Table 1.4 and volume 1, chapter 3: Project Description of the Environmental Statement) along the majority of the Hornsea Three onshore cable corridor to provide for HGV access to undertake trenching works and install the cables, with gaps only at some HDD locations and road crossings. The haul road will enable vehicles to move along sections of the Hornsea Three onshore cable corridor and relieve the need for construction traffic to rely on some localised longer sections, of the local road network or avoid certain settlements during construction.
- 4.3.1.2 The haul road would operate with a low speed limit to ensure the safety of workforce and plant operatives in the vicinity and where relevant, minimise disturbance to noise sensitive ecological receptors. Where the haul road crosses existing highway links, traffic management would be used to ensure that safe crossing by highway traffic and haul road vehicles. Details are set out in Figure 4.1, extracted from The Traffic Signs Manual, Chapter 8, Part 1, Traffic Safety Measures and Signs for Road Works and Temporary Situations, Department for Transport / Highways Agency, 2009.
- 4.3.1.3 The haul road will be restricted access limited to Hornsea Three construction traffic.



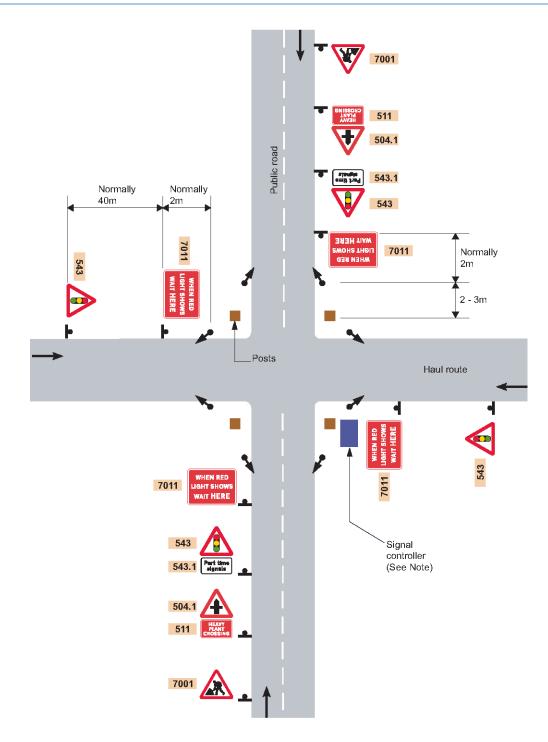


Figure 4.1: Haul Route Crossing.

4.4 Public Rights of Way

4.4.1.1 Several Public Rights of Way (PRoW) and areas of land with informal public access will potentially be affected by the construction of the onshore elements of the Hornsea Three. Prior to any stopping up or localised diversion of a PRoW (or area where informal public access), the project will agree measures, in accordance with the principles established in the Outline CoCP (document reference A8.5), to manage the interface between the works and PRoW with the relevant PRoW officer at NCC.



5 Planned Highway Intervention Schemes

- 5.1.1.1 The need for physical intervention measures has been identified at three locations during the construction phase of Hornsea Three.
- 5.1.1.2 For the purpose of the Outline CTMP, outline schemes have been prepared, each of which have been subject to, or continue to be subject to consultation with the relevant highway authorities (NCC and Highways England) as well as local stakeholders (including Cawston Parish Council and Oulton Parish Council).
- 5.1.1.3 A broad description of the planned works at each location are detailed below and will be subject to detailed design and further safety audit approval as part of the final CTMP. This section sets out the proposals for Hornsea Three only, interactions with other schemes are discussed in Section 9.

5.2 Oulton

- 5.2.1.1 A series of road improvements and mitigation measures are to be implemented prior to the commencement of any use of the Hornsea Three main construction compound on The Street and its junctions with the B1149 (link 208) and the main construction compound access. Drawings 1554 03 101A, 1554 03 102A, 1554 03 110 and 1554 03 111 contained in **Annex A**, provide the outline scheme which comprise the following key components:
 - Improvement of existing bellmouth junction between The Street and the B1149 (Holt Road);
 - Up to 8 Passing places along The Street for HGV opposing traffic (using Grasscrete paving) resulting in an overall carriageway width of 6.0m;
 - Widening of The Street near Dorking farm access (using full carriageway construction);
 - Trimming, but no removal, of vegetation and trees along The Street;
 - A means of priority work for southbound vehicles in the vicinity of The Old Railway Gatehouse with a view to minimising the potential for two opposing HGVs to pass by this property simultaneously while also serving as a means of speed attenuation and mitigation to improve noise and vibration risk):
 - Improved visibility at the Compound access;
 - Temporary lowering of the existing 60mph speed limit to 30mph from the B1149 junction to the Hornsea Three main construction compound access;
 - Temporary signage along the B1145 and The Street as agreed with the Highway Authority to provide driver awareness and enforcement;
 - Regrading of existing road hump on The Street in the vicinity of the Old Railway Gatehouse to minimise noise and vibration impacts on the Old Railway Gatehouse; and
 - Filter trench drainage of The Street along the regrading of the existing road hump.
- 5.2.1.2 The Applicant would maintain the works to the roadway (through video condition surveys, see Section 7 or visual inspections as appropriate) for the duration of the use of the main construction compound.

- It has been agreed that all physical intervention works to the highway would temporary in nature and removed once the use of the main Hornsea Three construction is complete (unless otherwise agreed with the relevant Highway Authority, in consultation with Oulton Parish Council (OPC). The only exceptions to this are the junction improvements at The Street/B1149 junction and regrading of the road hump which would be permanent as they represent an improvement to general highway safety. All signage associated with the construction works would also be removed once the use of the main Hornsea Three construction is complete (unless otherwise agreed with the relevant Highway Authority, in consultation with OPC). Temporary and permanent works would mostly like be carried out by the Applicant's contractors under licence from the HA.
- 5.2.1.4 A number of additional management measures will also be implemented at this location:
 - No outbound left movements from the main construction compound access to The Street for all Hornsea Three traffic;
 - No inbound right movements from The Street to the main construction compound access for all Hornsea Three traffic;
 - Monitoring and recording the number of Hornsea Three construction vehicle movements into and out of the main construction compound during active use;
 - Provision of acoustic glazing on all façades of Old Railway Gatehouse (with landowner agreement);
 - Provision of acoustic glazing to the existing skylight at the Old Railway Gatehouse (with landowner agreement);
 - Installation of a 2m high acoustic barrier (wall) along the south-eastern boundary of the property (along the boundary to the garden) at the Old Railway Gatehouse, together with a 90 degree turn at the garden end for a minimum of 10m along the southern property boundary (to be located within the highway boundary or on the landowner's property) (with landowner agreement);
 - Monitoring of the noise levels at the Old Railway Gatehouse for the duration of the active use of the main construction compound. This would be to verify the effectiveness of the mitigation proposed and to ensure that noise levels do not reach a level which would be considered a significant effect (>3dB above baseline noise, the baseline noise level will be determined immediately prior to commencement of the use of this link). Should an exceedance be identified, additional traffic management measures would be discussed and agreed with NCC and BDC's environmental health officer:
 - Consultation with NCC regarding events at Blickling Hall which may necessitate additional traffic management measures to be applied on specific days; and
 - Notification of any known abnormal load movements (outside of core working hours) and any changes to the proposed duration of active use of the main construction compound to OPC and The Old Railway Gatehouse.
- 5.2.1.5 The planned intervention works have been fully consulted and agreed with the Highway Authority to allow Hornsea Three to progress the final detail design.



5.3 Taverham Road

- 5.3.1.1 A series of highway improvements and mitigation measures are to be implemented on Taverham Road and the A47 junction (link 125) prior to the commencement of any use of Taverham Road by HGVs associated with the construction of Hornsea Three. The measures to be implemented are shown in drawing 1554_03_300D contained in **Annex B** and comprise the following key components:
 - Improvement to the Taverham Road bellmouth junction to provide a 15m exit and entry radii;
 - Widening of Taverham Road in the vicinity of the A47 to allow HGV opposing traffic to manoeuvre (using full carriageway construction);
 - Installation of a single, 35m long passing bay on Taverham Road to the north of the bridge above the River Tun and give way priority system to be implemented, with priority given to traffic turning off of the A47 (using Grasscrete construction);
 - Temporary closure of Blind Lane access off the A47;
 - Implementation of temporary diversions to account for above temporary road closures during the construction phase;
 - No right turning movements from Taverham Road onto the A47 (for all traffic);
 - No right turning movements for westbound traffic along the A47 onto Taverham Road suspended (via signing and road marking); and
 - Temporary signage as agreed with the Highway Authorities to provide driver awareness and enforcement.
- 5.3.1.2 The Applicant would maintain the works to the roadway (through video condition surveys, see Section 7 or visual inspections as appropriate) for the duration of the use of Taverham Road for construction traffic movement (expected to be limited to the construction phase for cable sections 14/15/16).
- 5.3.1.3 It has been agreed that all physical intervention works to the highway would temporary in nature and removed once the Hornsea Three construction is complete (unless otherwise agreed with the relevant Highway Authority). All signage associated with the construction works would also be removed once the use of the main Hornsea Three construction is complete (unless otherwise agreed with the relevant highway authorities). Temporary and permanent works would mostly like be carried out by the Applicant's contractors under licence from the relevant HA.
- 5.3.1.4 The planned intervention works have been fully consulted and agreed with the relevant HAs to allow Hornsea Three to progress the final detail design.

5.4 Cawston

A series of road improvements and mitigation measures are to be implemented in Cawston (link 88 and 89) and in the vicinity of the village on the B1145 prior to the commencement of any use of the B1145 where it passes through Cawston (Link 89) by HGVs associated with the construction of Hornsea Three.

- In March 2019 Create Consulting Engineers prepared a 'High Street, Cawston Highway Intervention Scheme' (HIS) document. This document set out a series of measures proposed to be introduced through the village of Cawston, to mitigate the localised impact of the HGV traffic associated with the construction of Hornsea Three alone and cumulatively with the Norfolk Vanguard and Boreas schemes which utilise the same route for access.
- 5.4.1.3 In January 2020, Royal Haskoning, as part of the Boreas DCO inquiry, produced 'Technical; Note Revised Cawston Highway Intervention Scheme' on behalf of Vattenfall which was produced in response to the Action Point 1 from Issue Specific Hearing 3 of the Norfolk Boreas Limited DCO Examination. The Vattenfall document sets out an alternative mitigation scheme to what was identified in Create's 2019 document, following on from the same principles established.
- 5.4.1.4 The Cawston HIS produced by Royal Haskoning has now been accepted by the acting Highway Authority NCC and therefore for all Hornsea Three construction movements through Cawston as well as Vattenfall's Norfolk Vanguard and Norfolk Boreas projects.
- 5.4.1.5 The measures to be implemented are shown in drawing T&P-PB5640-DR016 F2.0 Village Centre & PB5640-DR015 contained in Annex C and comprise the following key components for Hornsea Three construction vehicles;
 - Driver induction and awareness of specific traffic management requirements relating to the High Street
 - Prohibition of HGV deliveries during term time school pick up and drop off times (7:30am 9:00am and 3:00pm 4:00pm, Monday to Friday);
 - Prohibition of HGV deliveries from 6pm to 9am (in line with parking restrictions);
 - Implementation of a 20mph limit through the village;
 - Hazard warning signage to inform of 'pinch points' and 'pedestrians in the road';
 - Controlled kerbside parking denoted by broken line box road markings;
 - Parking controls to include a 'Limited Waiting' order (9:00am 6:00pm Monday to Friday) and associated single yellow line road markings and supplementary traffic signs;
 - High Street carriageway re-alignment adjacent to Chapel Street;
 - Resurfacing of the High Street, reinstatement of surface depressions (e.g. old utility trenches) repair and raising to level carriageway 'ironwork';
 - Ongoing vegetation maintenance programme to protect roadspace and visibility;
 - Development and support for an improved Cawston C of E Primary School 'School Travel Plan';
 - Improvements to the Cawston C of E Primary School pedestrian crossing;
 - Managed cumulative traffic demand to no greater than 239 daily HGV deliveries.
- 5.4.1.6 The Applicant would maintain the works to the roadway (through video condition surveys) for the duration of the use of link 89 for construction traffic movement (expected to be limited to the construction phase for cable sections 9 and 10).



- 5.4.1.7 This Outline CTMP has been updated since the original Deadline 7 submission. The update reflects the agreement to introduce reduced HGV operations through Cawston to now be over 5 days (Monday to Friday, no HGV movements on a Saturday), from the 5.5 day HGV working week specified in the previous version of this report. This reduced working week does not apply to non-HGV movements through Cawston and does not change the daily peaks.
- 5.4.1.8 To ensure that the Outline CTMP can be effectively enforced, it is important to define what would constitute a breach. The following non-compliances of the Outline CTMP would constitute a breach whereby corrective measures would be required:
 - 1) Failure to implement or use the agreed traffic management measure;
 - 2) Failure to follow the agreed delivery routes;
 - 3) Failure of the HGV to display its unique identifier;
 - 4) Dangerous driving; and
 - 5) Failure to record deliveries and departures for plant and materials within the booking system.
- 5.4.1.9 On receipt of a report of a potential breach, Orsted would investigate the circumstances and compile a report to the relevant authorities as soon as practicable.
- 5.4.1.10 If the breach is found to be material, Orsted would take appropriate action within the jurisdiction of the contract and report back to the relevant local authority and the Highway Authority.
- 5.4.1.11 Individual employee breaches would be addressed through UK employment law whereby the process outlined above would form the basis for disciplinary proceedings.
- As part of the Highway Intervention Scheme existing vegetation is to be cut back within the highway boundary to protect road-space and visibility. The vegetation cutback regime would comply with Norfolk County Council policy for the grass cutting visibility splays. The policy sets out a maintenance regime of five cuts between May and September in urban areas (defined as roads subject to a speed limit of less than 40mph). The clearance in the very eastern extent of the Cawston Conservation Area, affects a tree noted as a 'significant tree' (though not subject to a tree preservation order), numbered CA6 Common Walnut within Appendix D of the Cawston Conservation Area Character Appraisal (2009). Any proposed lopping of branches of this tree would need to be discussed and agreed with the appropriate Broadland District Council Officer in advance of the works.
- 5.4.1.13 Cawston High Street would be subject to a speed monitoring regime post HIS implementation to evaluate the effectiveness of the measures and intervene further if required.
- 5.4.1.14 Hornsea Three is committed to adopting the scheme and the principle that the first project (either Hornsea Project Three or Norfolk Boreas or Norfolk Vanguard) to proceed to construction would deliver the full scheme of mitigation and the final project would be responsible for removing the measures once all project's construction phases are complete.

- It has been agreed that all intervention works to the highway would be temporary in nature and removed or returned to the pre-construction arrangement once the Hornsea Three/Boreas construction is complete (unless otherwise agreed with the relevant Highway Authority, in consultation with Cawston Parish Council). All signage associated with the construction works would also be removed once the use of the main Hornsea Three/Boreas construction is complete (unless otherwise agreed with the relevant highway authorities, in consultation with Cawston Parish Council). Temporary and permanent works would most likely be carried out by the Applicant's contractors under licence from the relevant Highway Authority.
- 5.4.1.16 The planned intervention works have been fully consulted upon and agreed with the relevant Highway Authority and are now fixed.
- 5.4.1.17 A wide range of activities are associated with the construction of Hornsea Three, of which HGV movements associated with the transportation of cable drums form only a minor component of overall levels of traffic generation. The traffic generation for the construction of cable sections 9 & 10 associated with Hornsea Three have been broken down further into constituent components for the following construction activities
 - Temporary Site Compounds;
 - Site facilities and equipment;
 - Fencing and temporary Roadway construction along cable route;
 - Trench Construction:
 - Tile loads;
 - Cable and ducting deliveries;
 - TT (HDD / Thrust Bore) Sites;
 - Drainage Pipe;
 - Link Boxes.
- 5.4.1.18 Through a refinement of the construction of Cable Sections 9 / 10 Hornsea Three confirms have been able to confirm the following maximum HGV traffic flows and durations:

Primary peak does not exceed 127 daily HGV movements: Duration: 1 month
 Secondary peak: 68 daily HGV movements: Duration: 1 month
 Average over remaining period: 62 daily HGV movements
 Duration: 9 months

Cable drum maximum diameter size
 3.3m



16

- 5.4.1.19 As stated it has been confirmed a 3.3m diameter cable drum size would be the largest diameter drum to travel through Cawston. Create drawing 1554_03_512 included in Annex C demonstrates how a low loader will deliver a 3.3m diameter cable drum through Cawston with the HIS in place.
- 5.4.1.20 As shown on Create drawing 1554_03_512 due to the width of the cable drum load it will be necessary to temporarily suspend a 35m long section of the southern footway along the B1145 to the east of Church Lane.
- 5.4.1.21 It should be noted that the cable drum delivery vehicle wheel route will not be required to overrun the footway in order to traverse this section of the route. However, due to the width of the load, the load would overhang sections of the southern footway. Therefore, in order to prevent conflict between pedestrians and the load overhang, the footway would be temporarily suspended for the duration of the short delivery time.
- 5.4.1.22 This would be enforced with temporary signage and be under banksman control. The banksmen would assist/direct pedestrians to the pavement on the northern side of the B1145 which would remain open at all times. The residents that rely on this footway to access properties would be notified of the temporary suspension in advance. However, in the event access to these properties is required during the temporary suspension the banksmen would also assist the pedestrian/s to their property when it is safe to do so.
- 5.4.1.23 Should Hornsea Three and Norfolk Vanguard utilise link 88 and 89 at the same time, monitoring of the noise levels at a representative location within Cawston would be undertaken for the duration of the cumulative impact. This would be to verify the effectiveness of the mitigation proposed and to ensure that noise levels do not reach a level which would be considered a significant effect (>3dB above baseline, the baseline noise level will be determined immediately prior to commencement of the use of this link). Should an exceedance be identified, additional traffic management measures would be discussed and agreed with NCC and BDC's environmental health officer. Further details on the interaction with other projects, including Norfolk Vanguard is set out in section 9.



6 Management of Highway Safety

6.1 Existing accident record

6.1.1.1 Within section 1.4.2 of Annex 7.1 – Transport Assessment, an analysis of existing Personal Injury Accident (PIA) data has been undertaken using a two-stage process. Initially, the injury accident rate of identified links was calculated and if 25% higher than the national average injury accident rate further analysis was undertaken. The further analysis looked at severity, clustering and reasons for accidents and no issues in relation to the existing highway layout or geometries were discovered to be the cause of the incidents.

6.2 Monitoring and mitigation for Hornsea Three

- 6.2.1.1 HGV injury accidents and near misses associated with the Hornsea Three construction vehicles will be monitored to identify whether there are any safety deficiencies in the highway network due to the increased level of HGV traffic associated with the construction works.
- 6.2.1.2 If localised mitigation measures are required, these will be agreed with the Highway Authority and incorporated into the final CTMPs.

Maximum Construction Traffic Levels

6.2.1.3 In agreement with NCC, maximum construction traffic levels for Hornsea Three construction (in all directions) have been defined in Table 6.1 below on a link basis, which would not be exceeded without agreement with NCC, unless in the case of an emergency. Table 6.1 defines the key construction routes and the maximum permitted daily construction traffic movements (total, i.e. includes outbound and inbound movements).

Table 6.1. Link maximum levels for Hornsea Three construction traffic

Link ID			Link Maximum Levels for Hornsea Three	
	Link Description	Totals	HGVs	
1	Sheringham Road (A149) from Foxhills Camping access to NSL/30 mph sign	210	77	
2	Sheringham Rd (A149) from NSL/30 sign to Weybourne Rd (A149) allotments	210	77	
3	Weybourne Road (A149) allotments to Holway Road (A1082) roundabout	210	77	
4	Holway Road (A1082) to edge of urban area (30 mph / 50 mph sign)	210	77	
5	Holway Road (A1082) edge of urban area (30 mph / 50 mph sign) to A148 junction	210	77	

Link ID	Link Description	Link Maximum Levels for Hornsea Three	
LITIK ID		Totals	HGVs
31	A148 from edge of study area to B1354 junction	295	156
32	A148 from B1354 Junction to Letheringsett	295	156
33	A148 through Letheringsett	295	156
34	A148 between Letheringsett and edge of Holt	295	156
35	A148 between edge of Holt and B1110/1149 roundabout	295	156
36	A148 Holt Bypass	205	122
37	A148 between Holt and Bridge Road junction	205	122
38	A148 between Bridge Road and end of urban area	385	141
39	A148 between urban area and Bodham	385	141
40	A148 in Bodham	385	141
41	A148 between edge of Bodham and A1082 Holway Road	385	141
42	A148 between A1082 Holway Road and Church Road	471	149
43	A148 between Church Road and B1436	471	149
49	A140 from Roughton to Aylsham South / B1145 roundabout	471	149
50	B1354 from A148 to B1110	0	0
55	B1354 through Melton Constable and Briston	0	0
57	B1149 from Holt A148 roundabout to edge of urban area	291	153
58	B1149 from edge of Holt urban area to Edgefield	291	153
59	B1149 through Edgefield	291	153
60	B1149 to B1354 Junction	394	162
78	Aylsham Road B1145 from B1149 to edge of Aylsham Roundabout	81	0
79	B1145 around Aylsham	81	0
81	A1067 from outskirts of Fakenham to Guist	157	85
82	B1110 Guist to B1354	0	0
83	A1067 from Guist to B1145 Bawdeswell	157	85
84	B1145 in Bawdeswell	0	0
85	A1067 Fakenham	157	85
86	B1145 between Bawdeswell and Reepham	0	0
88	B1145 between Reepham and Cawston	370	127
89	B1145 in Cawston	370	127



Link ID	Link Deceription	Link Maximum Levels for Hornsea Three	
LIIIKID	Link Description	Totals	HGVs
90	B1145 between Cawston and B1149	370	127
97	Buxton Road from Eastgate to B1149	162	66
105	Hall Road to Reepham Road junction	81	33
109	A1067 from Bawdeswell to Great Witchingham	158	86
110	A1067 through Great Witchingham and Attlebridge	268	90
111	A1067 from Attlebridge to outskirts of Norwich / Beech Avenue	379	104
114	B1149 between B1145 and Buxton Rd	585	169
115	B1149 between Buxton Rd and Shortthorn Road	636	188
116	B1149 between Shortthorn Road and A140	636	188
118	A140 from Aylsham to B1149 roundabout	431	149
125	Taverham Road from Honingham Lane to A47	140	68
128	A47 west of B1535 Wood Lane	336	176
129	A47 between B1535 and Taverham Road	336	176
137	A47 east from Norwich	438	38
139	A47 between A1042 junction and A146 junction	630	184
141	A146 from A47 SE	114	20
143	A140 between A146 and A47	520	202
144	A47 between A140 and A146	570	159
145	A140 south from A47	146	40
146	B1113 between A140 and Swardeston	520	202
147	A47 between A140 and A11	622	205
154	B1172 SW from A11/A47	284	64
155	A47 between A11 and B1108	435	178
156	B1108 west from the A47	212	64
157	A47 between B1108 and A1074	352	176
188	Station Road between Reepham Road and Marriott's Way	132	62
189	Station road between Marriott's Way and A1067	65	31
190	B1436 between the A148 and Metton Road	471	149
191	B1436 between Metton Road and A140	471	149
193	A1065 from A148 to B1146	218	124

LinkID		Link Maximum Levels for Hornsea Three	
Link ID	Link Description		HGVs
194	A1065 from B1146 to Massingham Road junction, Weasenham	218	124
195	A1065 between Massingham Road, Weasenham to B1145	218	124
196	A1065 between B1145 and Netwon Road junctions	218	124
197	A1065 between Newton Road and A47 junction	218	124
198	A148 between A1067 and A1065 junction	456	242
199	A1270 between A1067 and Fir Covent Road	380	104
200	A1270 between Fir Covent Road and B1149 / New Drayton Lane roundabout	380	104
201	NDR: A1270 between B1149 / New Drayton Lane roundabout and the A140	1016	292
202	A1270 between A140 and B1150	655	190
203	A1270 between B1150 and A1151	655	190
204	A1270 between A1151 and A47 junction	655	190
208	The Street between the A1149 and Oulton airfield access	248	118
209	A47 between A1065 and Tuns Road, Necton	336	176
210	A47 between Tuns Road, Necton and Little Fransham	336	176
211	A47 at Little Fransham	336	176
212	A47 east of Little Fransham to Dereham grade-separated junction	336	176
213	A47 from Dereham to B1147 junction	336	176
214	A47 between B1147 to B1535 junctions	336	176

6.2.1.4 If construction traffic levels are anticipated to be exceeded in respect of any link, any increase will be subject to a full IEMA Transport Environmental Link Assessment and will be agreed with the Highway Authority and incorporated into the detailed CTMPs.



7 Highway Condition

- 7.1.1.1 Video surveys will be undertaken of those local roads where it is considered that the passage of construction HGVs may cause deterioration of highways. These roads will be agreed with the HAs as part of the final CTMPs. The schedule of highways to be surveyed will be agreed with the Highway Authority. This agreement will be in accordance with requirements under Section 59 of the Highways Act 1980.
- 7.1.1.2 Once construction activities have ceased in a given location the video survey of the associated highway links will be repeated to identify any significant changes in highway condition. The results will be discussed with the HAs and where it is agreed that damage has resulted from the passage of HGVs associated with construction work a financial contribution will be discussed with the Highway Authority to cover the cost of repairing that damage that is agreed to have resulted from vehicle movements associated with the Project.
- 7.1.1.3 Where appropriate, visual inspections of highway condition may also be undertaken to provide early identification of any diminishing conditions, or to verify any complaints received from the local community.



8 Implementation and Monitoring of the CTMPs

8.1 Implementation of the final CTMPs

- 8.1.1.1 The Draft DCO submitted with the application requires that no onshore connection works may commence until written details of a CTMP (which accords with this Outline CTMP) has been submitted to and approved by the relevant planning authority in consultation with the relevant Highway Authority.
- 8.1.1.2 The construction traffic management plan must contain details of
 - proposed vehicle routeing plans;
 - any abnormal indivisible loads that may be delivered by road (including weight, length and width, proposed timing of deliveries and proposed routing), or confirmation that no abnormal indivisible loads will be required for construction of the authorised development;
 - condition surveys;
 - any highway works proposed;
 - construction personnel travel; and
 - details of management measures to be implemented (including, but not limited to, wheel cleaning facilities, temporary signage, use of banksmen or escort vehicles and temporary speed restrictions).
- 8.1.1.3 This Outline CTMP is to be read alongside the Outline CoCP (document reference A8.5), which itself is secured through a Requirement of the Draft DCO as submitted.
- 8.1.1.4 Once contractors have been appointed, this Outline CTMP will form the basis of the final CTMPs which will be agreed with the Highway Authority. More than one final CTMP will therefore be prepared to cover:
 - Specific works, such as landfall, onshore export cable corridor, main construction compound, the HVAC Booster Station and the HVDC converter / HVAC substation works;
 - Different sub sets of those specific works, such as enabling works and main works.
- 8.1.1.5 The final CTMPs will be agreed with the relevant Local Planning Authorities and Highway Authority before the commencement of those works encompassed by the relevant CTMP start on site, and developed in consultation with the appointed construction contractor teams. In preparing the final CTMPs, if any road closures are required the principal contractor will consult with Royal Mail.

8.2 Compliance and monitoring

8.2.1.1 Compliance with all the monitoring plans, including the final CTMPs will be monitored by the project, the site manager(s) or their deputy(ies). The project, site manager(s) or their deputy(ies) will ensure that all contractors are aware of the requirements of the final CTMPs and of the monitoring obligations.

- 8.2.1.2 A central point of contact for the project (which may be the project team, site manager(s) or their deputy(ies)) will be appointed to all monitoring processes during the construction phase and will liaise with the relevant Local Planning Authorities and Highway Authority throughout the works onshore.
- 8.2.1.3 Establishing this central point of contact will help to ensure that compliance for all traffic management in a given location at a given time will be the responsibility of a single individual to ensure clarity of responsibility and to facilitate effective communication between the project, Local Planning Authorities and Highway Authority.
- 8.2.1.4 Monitoring activities and responsibilities will be agreed with the relevant Local Planning Authorities and Highway Authority. The final CTMPs will include contact details of those responsible for the final CTMPs and a clear schedule of monitoring activities and timescales.



9 Interaction between Hornsea Three and Other Projects

9.1 Interaction between Hornsea Three and the A47 Improvement Scheme

- 9.1.1.1 HE is developing plans to submit a DCO application for improvement works to the A47. The improvement works at the A47/A11 Thickthorn interchange, the A47 at Easton and A47 at Swardeston will seek to increase capacity by re-routing traffic away from the existing junction via two new interchange roads to relieve congestion, reduce journey times, and encourage economic growth. The scheme will look to improve facilities for pedestrians, and cyclists, by upgrading pedestrian crossings and footpaths.
- 9.1.1.2 HE has already been consulted with and at the point of cross over between the onshore cable works and the proposed alignment of the dualled A47 (just west of Easton roundabout) the onshore cable can be installed by way of a HDD, limiting the direct interface between the two projects.
- 9.1.1.3 The broader management of the traffic management interactions between the two projects will be discussed and agreed with HA at a later date (at least prior to the commencement of works at the point of interaction). Traffic management interactions will therefore be included within relevant final CTMPs.

9.2 Interaction between Hornsea Three and Vattenfall Norfolk Vanguard

- 9.2.1.1 Vattenfall submitted a DCO application for its Norfolk Vanguard offshore wind farm shortly after the application for Hornsea Three was submitted. Its proposed landfall is at Happisburgh South on Norfolk's eastern coast and the 60km cable corridor routes west to a substation to the east of Necton. The two export cable corridors cross at land near Reepham. It is noted that Hornsea Three and Norfolk Vanguard propose to utilise various common road links during their respective construction phases; these include The Street in Oulton and link 88 and 89 through Cawston (both of which are subject to intervention measures as set out in Section 5).
- 9.2.1.2 To manage these interactions, the detailed CTMP (s) for Hornsea Three will set out measures to ensure that the traffic and transport_cumulative environmental impacts with other major projects (namely, Norfolk Vanguard) are managed to levels such that they are acceptable by Norfolk County Council as the local Highway Authority. It will also set out how any interactions in the implementation, maintenance and removal of intervention measures at The Street in Oulton, and link 88 and 89 through Cawston (as set out in Section 5) would be managed between the projects (if appropriate). Appendix A of the Hornsea Three Outline CoCP includes a Communication Plan Framework, which sets out the provision for a Communication Plan to be developed, managed and implemented by the Stakeholder Manager for Hornsea Three.

- 9.2.1.3 That Communication Plan will set out the process of continued engagement between the Applicant, the Local Highway Authority and other major projects (namely, Norfolk Vanguard). This will ensure that as construction programmes are refined post-consent, this information is regularly shared between parties, particularly traffic demand on shared road links. This will ensure that commitments to manage cumulative construction traffic demand are fully delivered; for example, on a given road the two projects may have committed to programme works that ensure each scheme's peak traffic does not overlap. Regularly programmed sharing of information will ensure that the final approved CTMPs accurately reflect the expected construction traffic demand of both projects, and provide certainty to the Local Highway Authority that commitments remain feasible and deliverable.
- 9.2.1.4 It has been agreed for three specific links that the cumulative traffic effects from Hornsea Three and Norfolk Vanguard should be monitored to ensure construction traffic levels are not exceeded in the event of the two projects carrying out construction activities simultaneously. The links and maximum cumulative traffic levels not to be exceeded without a full IEMA Transport Environmental Link Assessment and agreement with the HAs and incorporated into the detailed CTMPs are defined below;
 - Link ID 89: B1145 through Cawston 646 total (outbound and return i.e. two-way) movements per day, of which up to 239 can be HGVs;
 - Link ID 59: B1149 Edgefield to Heydon 515 total (outbound and return i.e. two-way) movements per day, of which up to 337 can be HGVs; and
 - Link ID 208: The Street, Oulton 424 total (outbound and return i.e. two-way) movements per day, of which up to 214 can be HGVs.





Hornsea Project Three
Offshore Wind Farm

Appendix 6 to Hornsea Three's Response to the SoS' Minded to Approve Letter:

Outline Construction Traffic Management Plan (clean)

Annex A – Oulton Highway Intervention Plans

APFP Regulation 5(2)(a)

Date: 30th September 2020





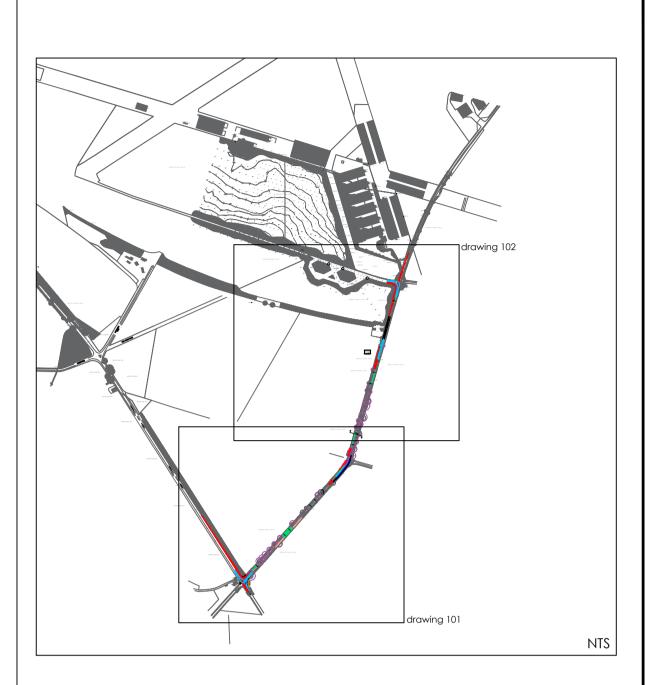


Annex A – Oulton Highway Intervention Plans





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OPTION 1: PASSING PLACES

GENERAL NOTES:

AGRICULTURAL FIELD

WIDENING OF THE STREET (FULL CARRIAGEWAY CONSTRUCTION)

- 1. PASSING PLACES (PP) TO BE FORMED BY SHALLOW-DIG CELLULAR SYSTEM (E.G. GRASSCRETE, OR SIMILAR) PROVIDING LOCALISED 6.0m OVERALL ROAD WIDTH, WITH PERMEABLE DRAINAGE TO SUB-STRATA. PASSING PLACES ARE LOCATED AND SPECIFIED WITH SHALLOW-DIG CELLULAR SYSTEM SO TO MINIMISE IMPACT OF THEIR CONSTRUCTION ON EXISTING TREE ROOT PROTECTION AREAS.
- 2. THE DRAWING IS BASED ON A TOPOGRAPHIC SURVEY UNDERTAKEN BY PLANDESCIL REF 17697 IN CONJUNCTION WITH DIGITAL OS MAPPING.
- 3. ANY EXCAVATION CLOSE TO TREES/HEDGES TO BE CARRIED OUT IN ACCORDANCE WITH NJUG GUIDELINES.
- 4. SERVICES ARE TO BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES.
- 5. TO BE READ IN CONJUNCTION WITH ALL OTHER LAYOUT AND DETAIL DRAWINGS.
- 6. ACCESS FOR PEDESTRIANS AND CYCLISTS IS TO BE MAINTAINED AT ALL TIMES. ACCESSES TO PROPERTIES ARE TO BE MAINTAINED AND WORKS PROGRAMMED IN CONSULTATION WITH PROPERTY OWNERS.
- 7. ANY ROAD MARKINGS/ROAD SIGNS ARE TO BE IN ACCORDANCE WITH THE SI DOCUMENT "TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS, 2016"

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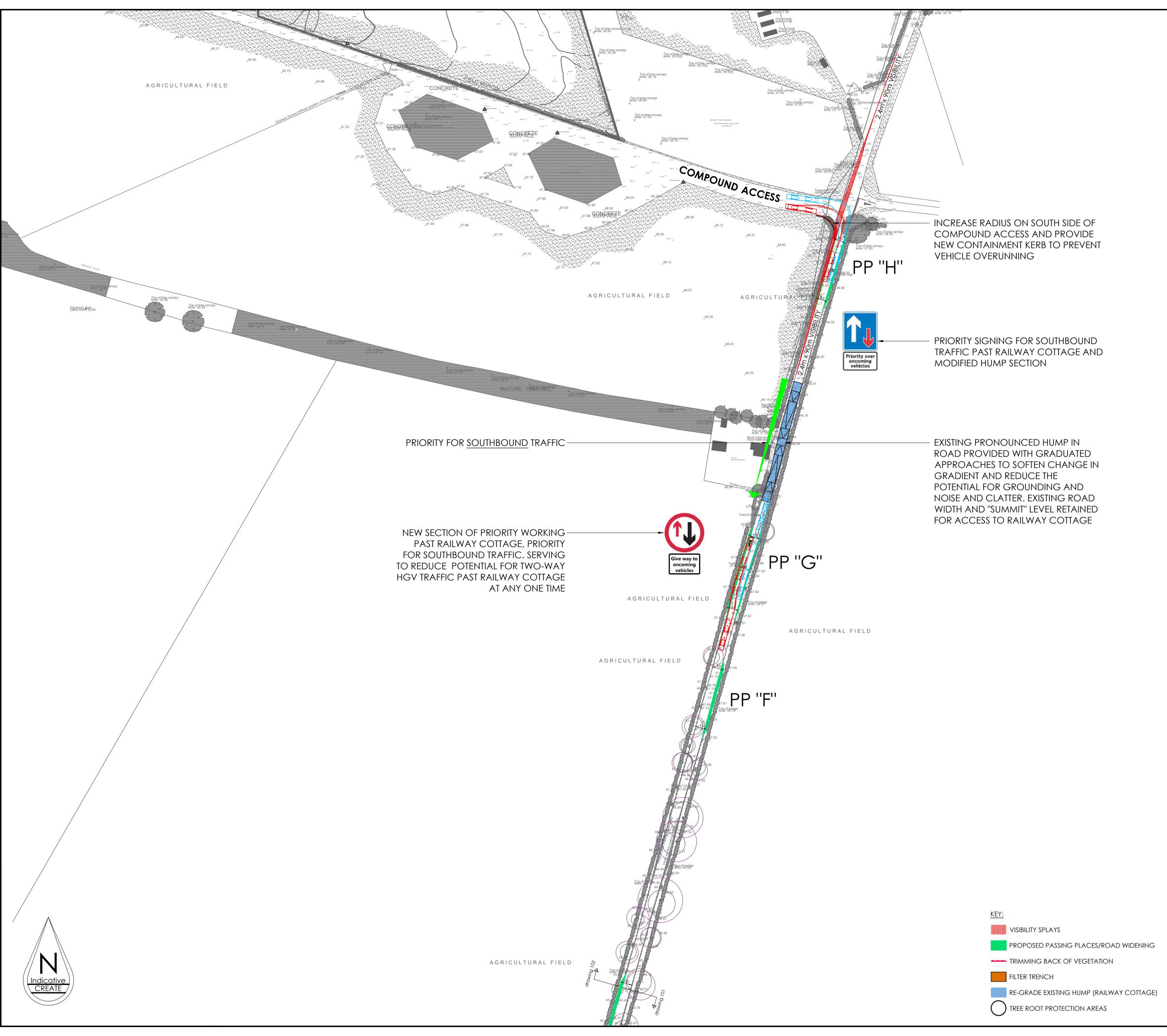
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REV	DATE	AMENDMENT DETAILS	DRAWN	APPRO

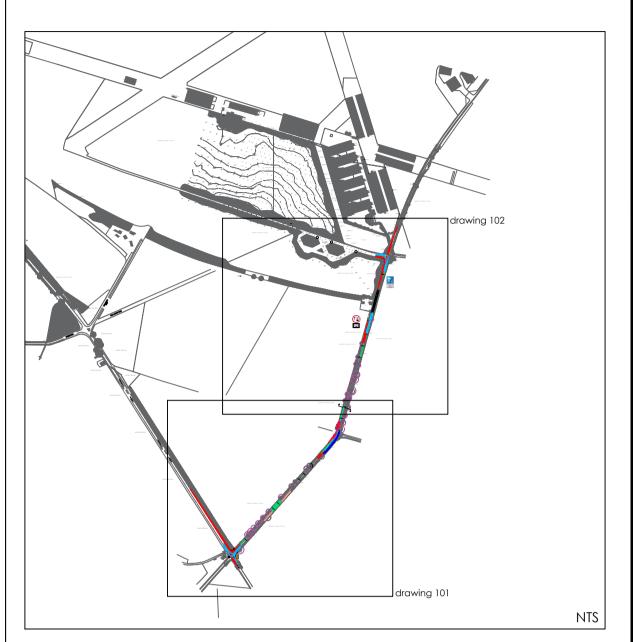
Telephone: 01603 877010

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	1:1,000	MDA	MDA		
DRAWING TITLE		CHECKED	APPROVED		
PROPOSED IMPROVEMENTS		PZ	PZ		
THE STREET, OULTON (OPTION 1)	JOB No	•			
SHEET 1 OF 2	1554			Cre	
CLIENT	DRAWING No)	REVISION	CON	
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OPTION 1: PASSING PLACES

GENERAL NOTES:

- 1. PASSING PLACES (PP) TO BE FORMED BY SHALLOW-DIG CELLULAR SYSTEM (E.G. GRASSCRETE, OR SIMILAR) PROVIDING LOCALISED 6.0m OVERALL ROAD WIDTH, WITH PERMEABLE DRAINAGE TO SUB-STRATA. PASSING PLACES ARE LOCATED AND SPECIFIED WITH SHALLOW-DIG CELLULAR SYSTEM SO TO MINIMISE IMPACT OF THEIR CONSTRUCTION ON EXISTING TREE ROOT PROTECTION AREAS.
- 2. THE DRAWING IS BASED ON A TOPOGRAPHIC SURVEY UNDERTAKEN BY PLANDESCIL REF 17697 IN CONJUNCTION WITH DIGITAL OS MAPPING.
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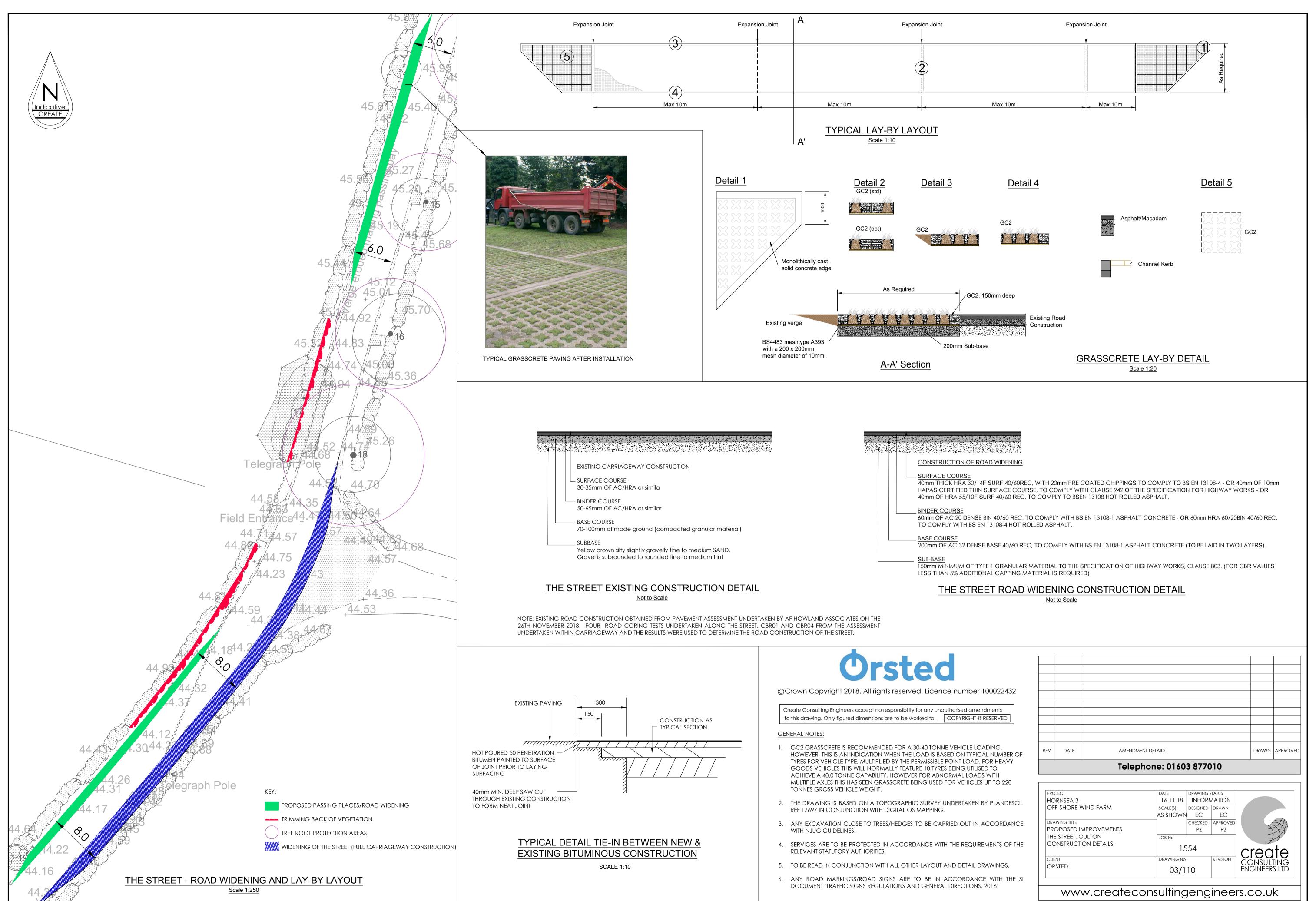
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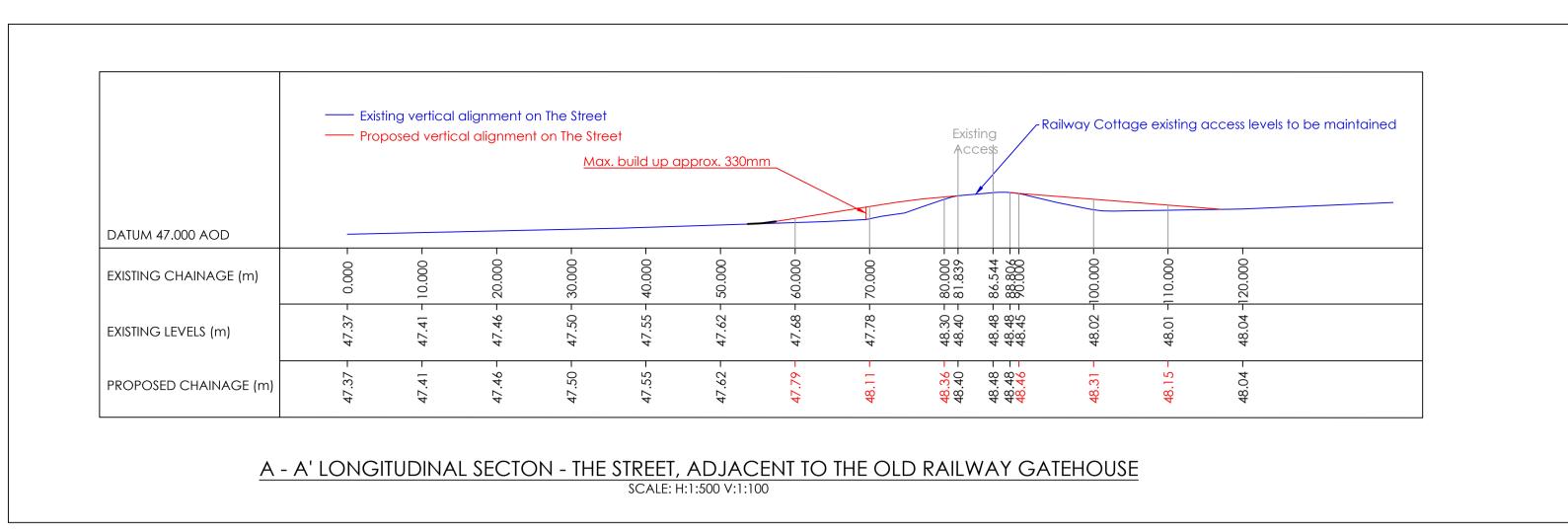
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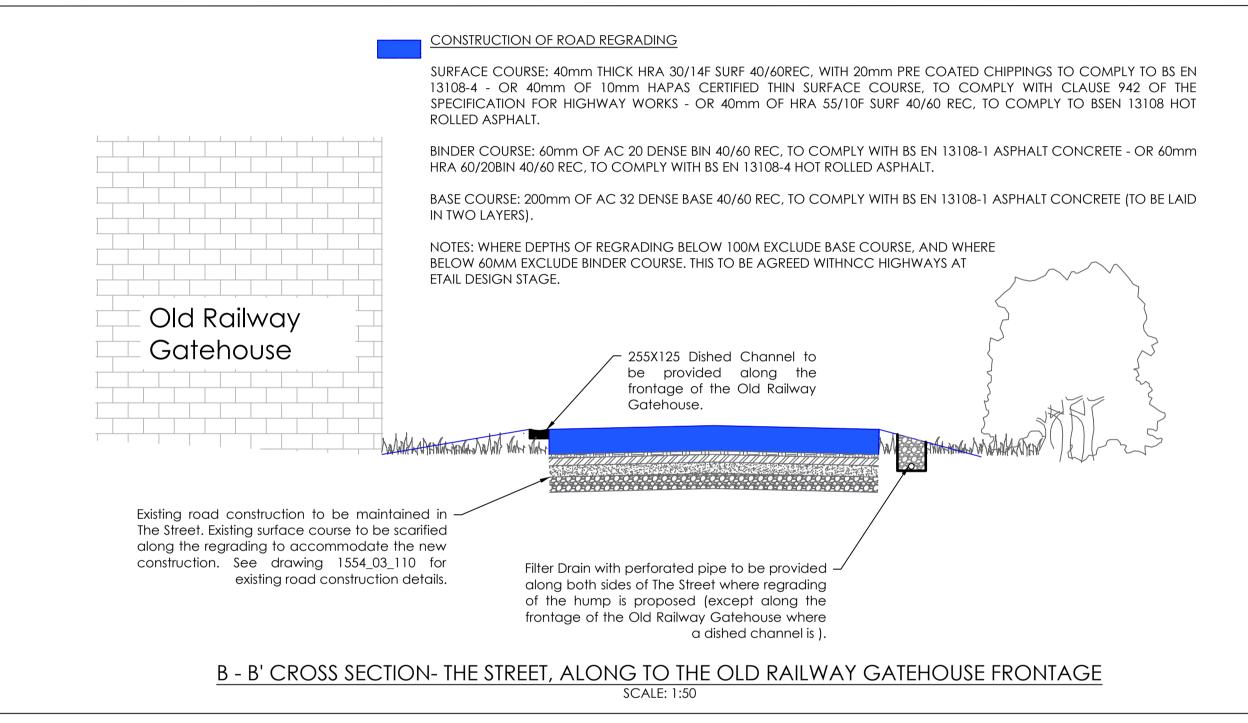
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ROPOSED IMPROVEMENTS		PZ	PZ	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
ie street, oulton (option 1)	JOB No					
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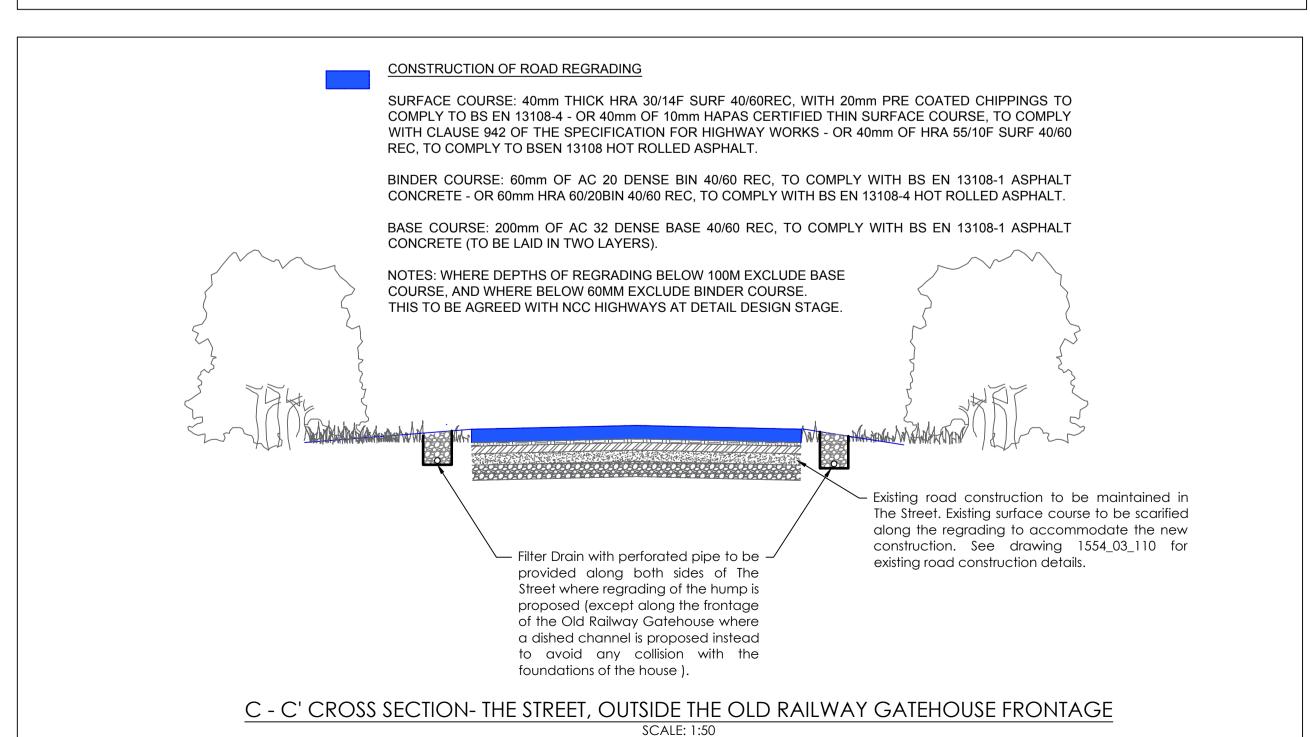
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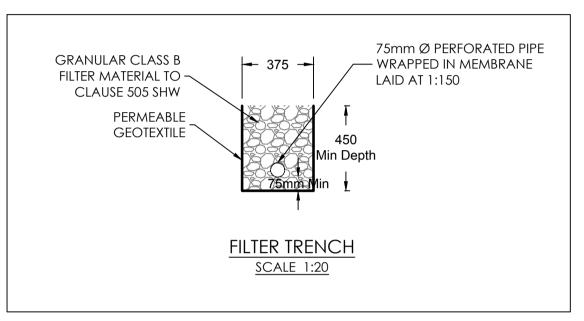


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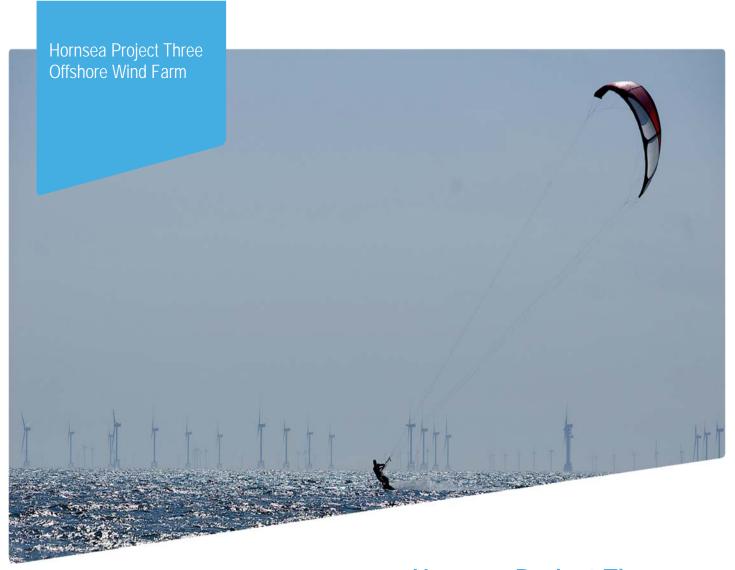
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Telephone: 01603 877010

PROJECT	DATE DR		DRAWING STATUS	
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OFF-SHORE WIND FARM	SCALE(S)	DESIGNED	DRAWN	
	as shown	EC	EC	
DRAWING TITLE		CHECKED	APPROVED	
PROPOSED ROAD REGRADING		PZ	PZ	
OLD RAILWAY GATEHOUSE	JOB No			
THE STREET, OULTON	1554			
CLIENT	DRAWING No	REVISION		
ORSTED	03/1		EI	

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Hornsea Project Three
Offshore Wind Farm

Appendix 6 to Hornsea Three's Response to the SoS' Minded to Approve Letter:

Outline Construction Traffic Management Plan (clean)

Annex B – Taverham Road Highway Intervention Plans

APFP Regulation 5(2)(a)

Date: 30th September 2020



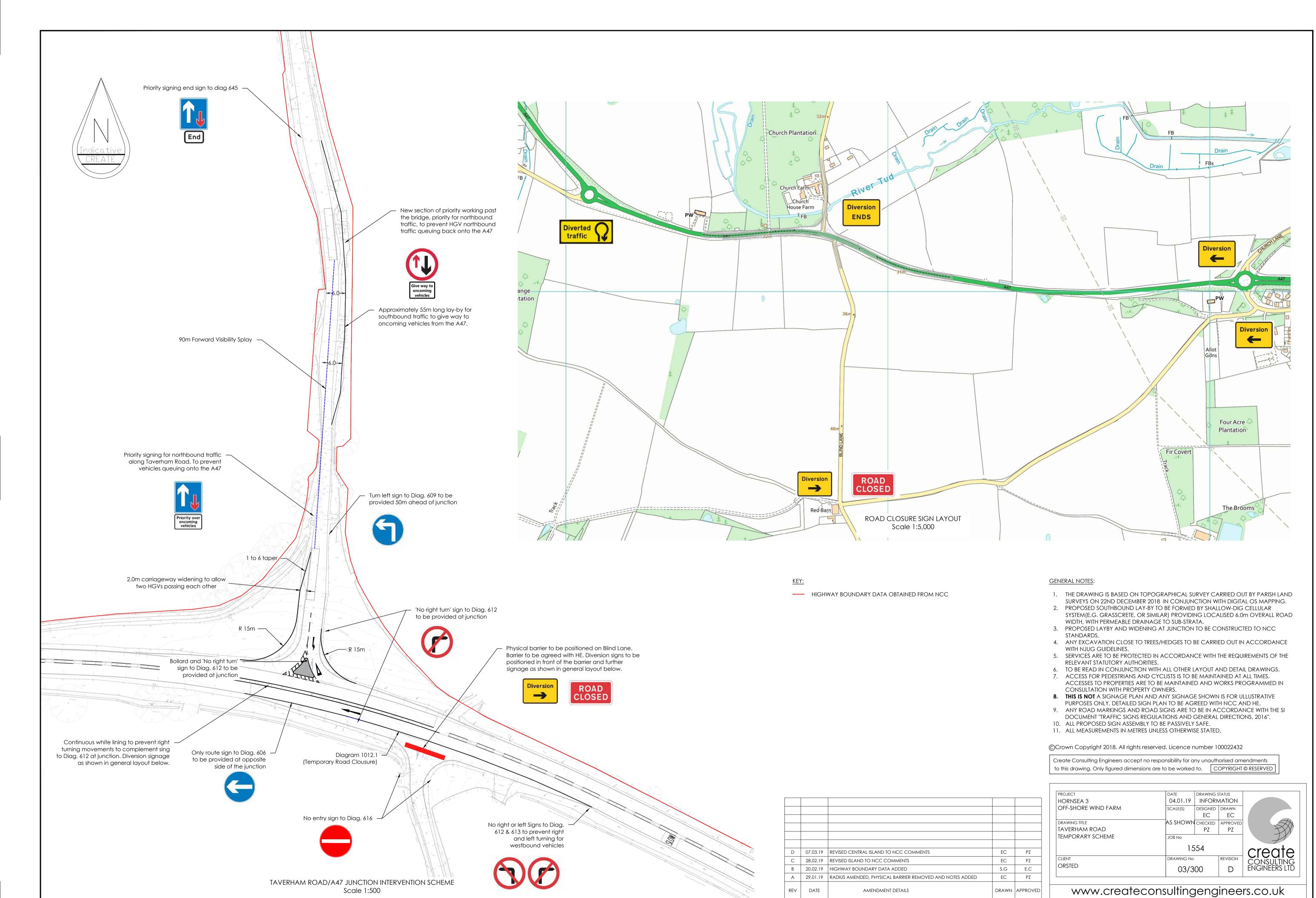




Annex B – Taverham Road Highway Intervention Plans









Hornsea Project Three
Offshore Wind Farm

Appendix 6 to Hornsea Three's Response to the SoS' Minded to Approve Letter:

Outline Construction Traffic Management Plan (clean)

Annex C – Cawston Highway Intervention Plans

APFP Regulation 5(2)(a)

Date: 30th September 2020





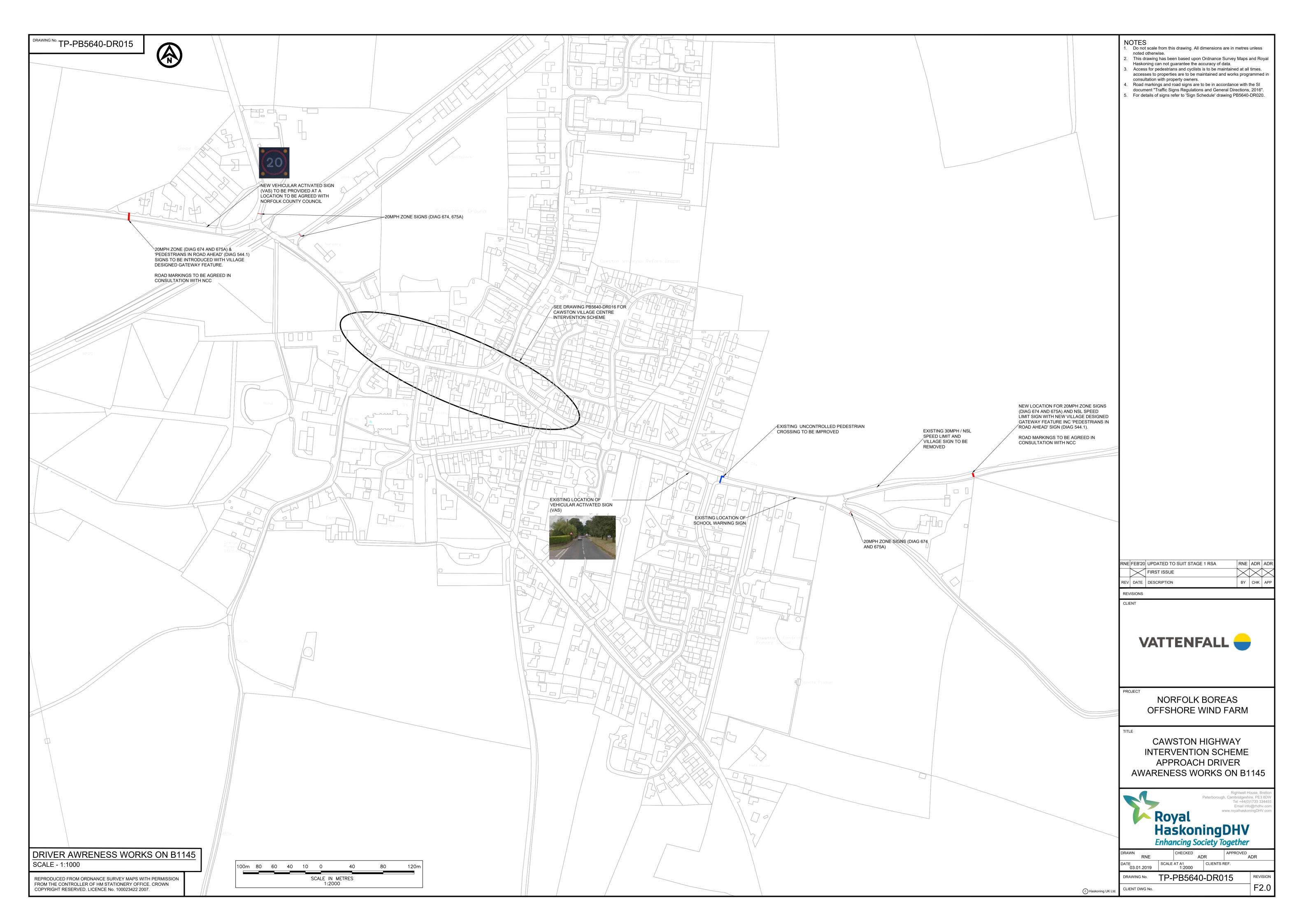


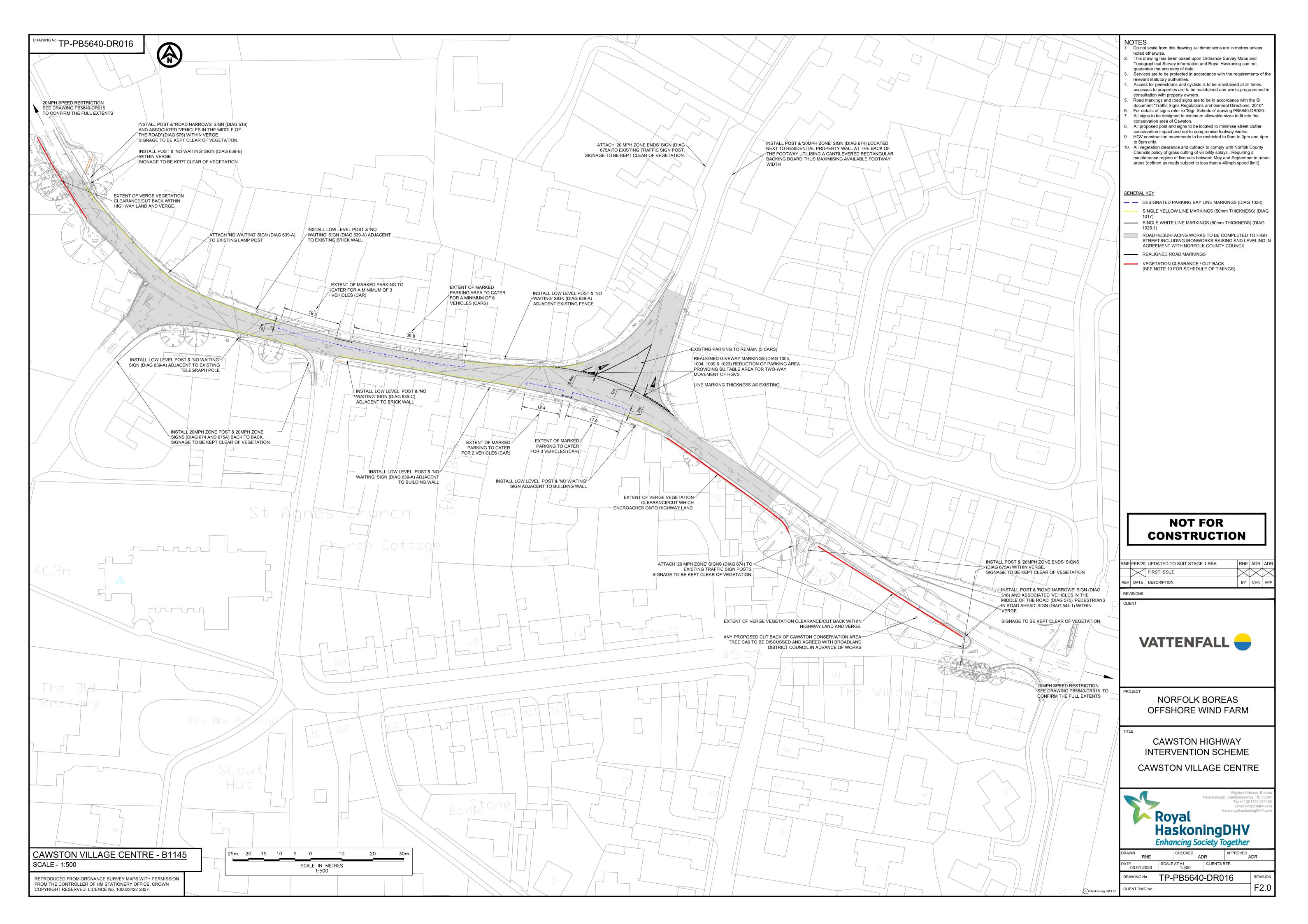
Annex C – Cawston Highway Intervention Plans





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Hornsea Project Three
Offshore Wind Farm

Appendix 6 to Hornsea Three's Response to the SoS' Minded to Approve Letter:

Outline Construction Traffic Management Plan (clean)

Annex D – Permanent Access Plans

APFP Regulation 5(2)(a)

Date: 30th September 2020



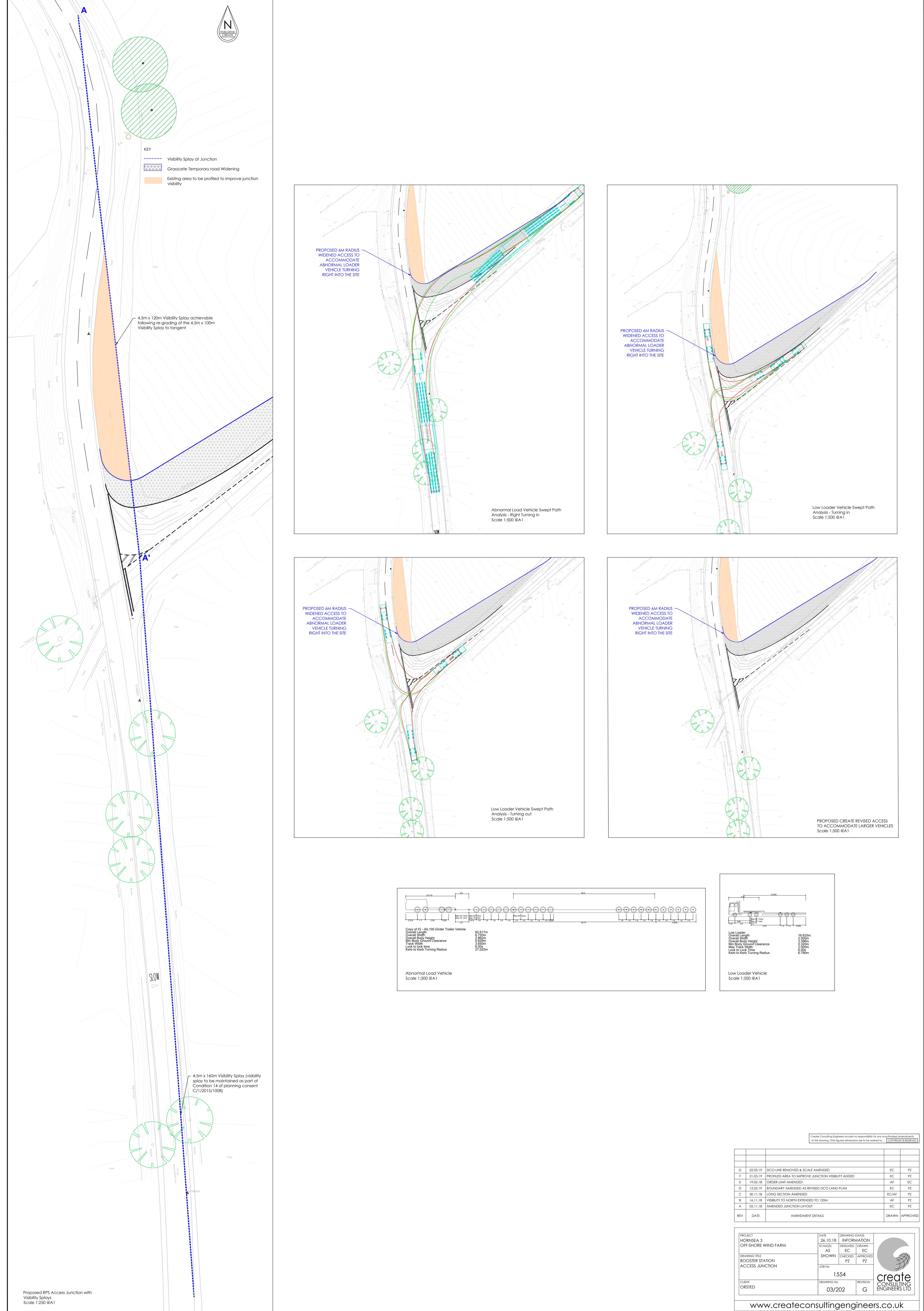




Annex D - Permanent Access Plans







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