



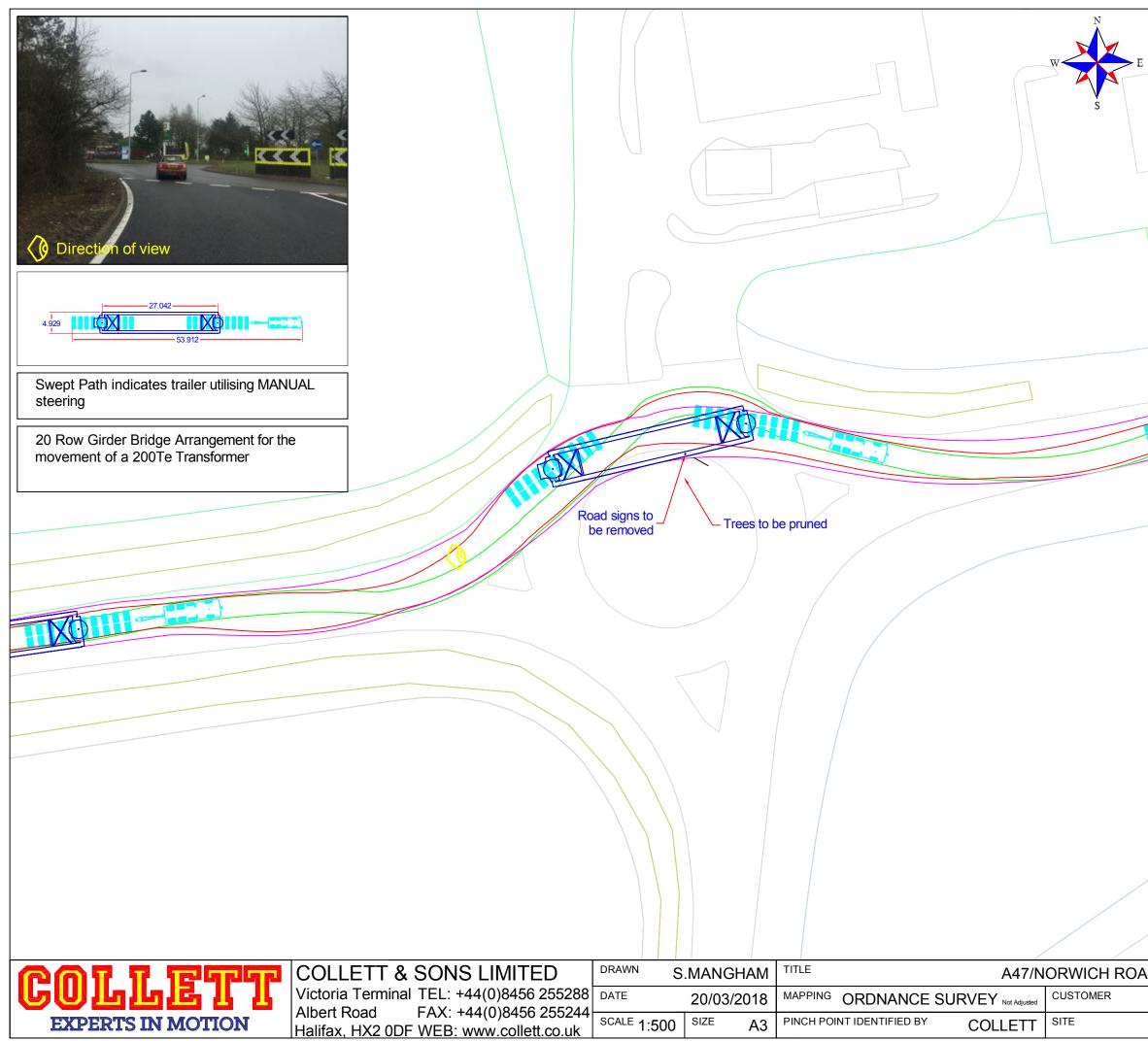
Norfolk Vanguard Offshore Wind Farm Outline Traffic Management Plan (tracked changes)

Part 4 of 4

Applicant: Norfolk Vanguard Limited Document Reference: 8.8 Pursuant to: APFP Regulation: 5(2)(q) Deadline 7

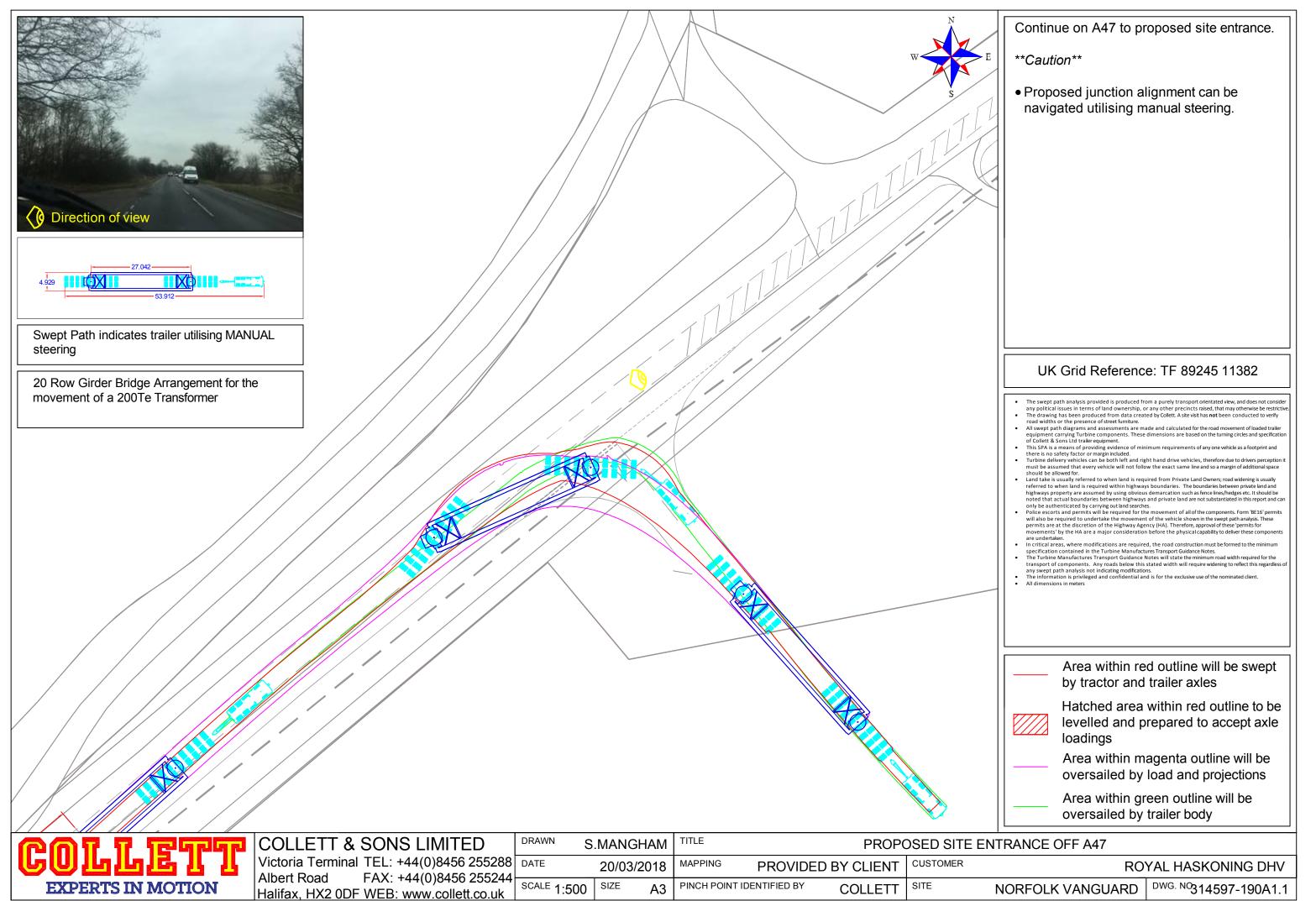
Date: <u>02 May 2019</u> Revision: Version <u>2</u> Author: Royal HaskoningDHV

Photo: Kentish Flats Offshore Wind Farm



Continue on A47 to roundabout with Norwic Road.	:h
At roundabout, continue on A47.	
Caution	
 Road signs on central island of the roundabout to be removed. Trees on roundabout to be pruned. Girder Bridge to be raised to clear central island. 	
UK Grid Reference: TF 84305 09509	
 The swept path analysis provided is produced from a purely transport orientated wew, and does not co any political issues in terms of land ownership, or any other precincts raised, that may otherwise be res The drawing has been produced from data created by Collett. A site visit has not been conducted to ver road widths or the presence of street fumiture. All swept path diagrams and assessments are made and calculated for the road movement of loaded tr equipment carrying Turbine components. These dimensions are based on the turning circles and specifi of Collett & Sons Ltd trailer equipment. This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint at there is no safety factor or margin included. Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perceg must be assumed that every vehicle will not follow the exact same line and so a margin of additional spi should be allowed for. Land take is usually referred to when land is required from Private Land Owners; road widening is usual referred to when land is required within highways boundaries. The boundaries between private land an highways property are assumed by using obvious demarcation such as fence lines/heges etc. It should noted that actual boundaries between highways and private land are not substantiated in this report ar only be authenticated by carrying out land searches. Police escorts and permits will be required for the movement of all of the components. Form 'BE16' per will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these' permits for movements' by the HA are a major consideration before the physical capability to deliver these compor are undertaken. In critical areas, where modifications are required, the road constructio	trictive. ify ailer cation d tion it tice y d be d d can mits eents im
Area within red outline will be swep	t
Hatched area within red outline to b levelled and prepared to accept axis loadings	
Area within magenta outline will be oversailed by load and projections	
Area within green outline will be oversailed by trailer body	
) ROUNDABOUT	
ROYAL HASKONING DH	IV

NORFOLK VANGUARD DWG. NO314597-180A1.1





APPENDIX 3 - COUNCIL CORRESPONDENCE AND COMMENTS



Mistral Point AW Nielsen Road **GOOLE** East Yorkshire DN14 6UE Baltic House Central Dock Road **GRANGEMOUTH** Central Scotland FK3 8TY Tel. +44 (0) 8456 255 233 Fax +44 (0) 8456 255 244 Email info@collett.co.uk

www.collett.co.uk

ur Ref: 314597 Date: 10 th March 2018
--

Application for 'Confirmation of suitable route' for Norfolk Vanguard.

To Whom it May Concern,

I am currently carrying out a survey to a site called 'Norfolk Vanguard', off A47 near Necton.

Could you please **confirm in writing** that the **route** detailed below and all structures that are involved in your area on this route are suitable in terms of axle loadings, spacing and Gross vehicle weights, in connection with the loaded vehicle specifications below.

Rοι	ite:
•	Exit Kings Lynn Harbour onto Edward Benefer Way,
•	Continue on Edward Benerfer Way to merge onto
	Grimston Road A148.
•	Continue on A148 to roundabout junction with A149
	Queen Elizabeth Way,
•	At roundabout turn right onto A149 Queen Elizabeth
	Way,
•	Continue on A149 through 2 roundabouts to
	roundabout junction with A47,
•	At roundabout turn left onto A47,
•	At roundabout turn left onto A47,
•	At roundabout, continue on A47,
•	At roundabout continue on A47,
•	Continue on A47 to proposed site entrance on the
	right hand side at approx. OS Grid refs: TF 89245
	11382.

Load A: G	Load A: Girder Bridge Only																				
Rigid Length	27.	042	-	verall ength		9.70)	Overa Widt		7	.39			/erall eight		.929		Veł	oss nicle eight	33	2.86Te
-	1		2	3	4	1	5		6	7		8		9		10	11	1	12	:	13
Number of wheels per axle	8		3	8	8	3	8		8	8		8		8		8	8	5	8		8
Axle Weight (Te.)	16.64	4 16	.64	16.6	64 16	.64	16.6	64 16	.64	16.6	64	16.6	64	16.6	64 16	6.64	16.0	64	16.6	64 ⁻	16.64
Axle Spacing		1.50	1	.50	1.50	1.	.50	1.50	1	.50	1.	50	1.	50	1.50	11	1.78	1.5	50	1.50	1.50



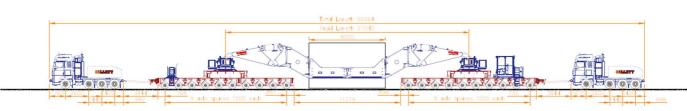
Mistral Point AW Nielsen Road GOOLE East Yorkshire DN14 6UE

Baltic House Central Dock Road GRANGEMOUTH Central Scotland FK3 8TY

Tel.	+44 (0) 8456 255 233
Fax	+44 (0) 8456 255 244
Ema	il info@collett.co.uk

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	14	15		16	17	18	19	20
	8	8		8	8	8	8	8
16	6.64	64 16.64		16.64	16.64	16.64	16.64	16.64
	1.50		1.50	1.50	1.50	1.50	1.5	50



Should there be any problem with any part of the route detailed, I would appreciate your immediate response.

Your urgent response would be greatly appreciated. Many thanks & best regards

Steven Mangham **COLLETT & SONS LTD**



Mistral Point AW Nielsen Road **GOOLE** East Yorkshire DN14 6UE

Baltic House Central Dock Road **GRANGEMOUTH** Central Scotland FK3 8TY Tel. +44 (0) 8456 255 233 Fax +44 (0) 8456 255 244 Email info@collett.co.uk

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Map of Routes

Route A

Exit from Kings Lynn Harbour on Edward Benefer Way.



Continue on Edward Benefer Way to merge on Grimston Road A148.





GOOLE

East Yorkshire DN14 6UE

Mistral Point AW Nielsen Road Baltic House Central Dock Road GRANGEMOUTH Central Scotland FK3 8TY

Tel. +44 (0) 8456 255 233 Fax +44 (0) 8456 255 244 Email info@collett.co.uk

www.collett.co.uk

Continue on A148 to roundabout jucntion with A47.



Continue on A47 to Site



From:	Howell, Tania <tania.howell@jacobs.com></tania.howell@jacobs.com>
Sent:	21 March 2018 08:19
То:	Steven Mangham
Subject:	RE: Confirmation of Suitable Route - 314597

Good morning Steven,

Thank you for your enquiry. I can confirm that neither of the route options will affect any Historic Railways Estate structures.

Regards Tania

Tania Howell Abnormal Loads Officer Jacobs DDI: 0118 946 8911

If your mail concerns abnormal load movements, please reply to RSGBRB@jacobs.com

From: Steven Mangham [mailto:Steven.Mangham@collett.co.uk]
Sent: 20 March 2018 16:54
To: abloads.area6@kier.co.uk; roadspace.area6@kier.co.uk; abnormalloads@norfolk.gov.uk; Abnormal Loads
Contact (AbnormalLoadsContact@networkrail.co.uk) <AbnormalLoadsContact@networkrail.co.uk>; abnormal.loads@canalrivertrust.org.uk; RSGBRB@jacobs.com
Subject: [EXTERNAL] Confirmation of Suitable Route - 314597

Good Afternoon,

To Whom It May Concern:

Please find attached a Confirmation of Suitable Route request for Norfolk Vanguard.

Please note that, at present, we do not require a permit to move. This request is for information purposes only to ensure that the route is suitable to accept the axles loads proposed and to identify any potential structure issues there may be on the identified route.

If you could response in writing to <u>steven.mangham@collett.co.uk</u> that would be much appreciated.

Kind Regards,

Steven Mangham

Consulting Team Manager/Renewables Project Manager

Collett & Sons Ltd | Victoria Terminal | Albert Road | Halifax | HX2 0DF | UK Tel: +44 (0)8456 255288 | Fax: +44 (0)8456 255244 | Mob: Email: <u>steven.mangham@collett.co.uk</u> | Web: <u>www.collett.co.uk</u>



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Jacobs U.K. Limited 1180 Eskdale Road, Winnersh, Wokingham RG41 5TU Registered in England and Wales under number 2594504

From:	Administrator
Sent:	26 March 2018 12:11
То:	Steven Mangham
Subject:	FW: 2018-03-23 00-00 Confirmation_of_suitable_route_314597
Attachments:	2018-03-23 00-00 Confirmation_of_suitable_route_314597.pdf; 2018-03-23 00-00
	Confirmation_of_suitable_route_314597.xlsx

Michael Collett

Director

Collett & Sons Ltd | Victoria Terminal | Albert Road | Halifax | HX2 0DF | UK Tel: +44 (0)8456 255233 | Fax: +44 (0)8456 255244 | mob:



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From: Hughes, John [mailto:John.Hughes@kier.co.uk]
Sent: 26 March 2018 11:59
To: info at collett
Cc: Nick Hyde (Nicolas.hyde@highwaysengland.co.uk); Chimwemwe Banda
Subject: 2018-03-23 00-00 Confirmation_of_suitable_route_314597

Steven Mangham Proposals such as in the attached have to be dealt with by due process. If you have not already done so you must submit a Special Order Notification to:-

Abnormal Loads Highways England | The Cube | 199 Wharfside Street | Birmingham | B1 1RN Tel: 0300 470 3102 Abnormal Loads Team Tel: 0300 470 3004 Web: http://www.highways.gov.uk

I believe that this is done via ESDAL.

There are potentially twenty structures belonging to Highways England that may be affected by your proposal, though I note that you are avoiding some of the larger span structures in your attached proposal.

The structures potentially affected by your proposal are listed in the attached excel spreadsheet. We at Kier are unable to process your proposal further without a notification and Special Order reference from Highways England.

Regards

John Hughes Bsc. C.Eng MICE

Project Manager Structures Abnormal Loads Coordinator Highways England Areas 6 and 8

Kier Services | Highways | Sandy Highways Depot, Beamish Close, Sandy SG19 1SD T: | 01223 255255 | E: john.hughes@kier.co.uk Web www.kier.co.uk

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Kier Highways Limited I Registered in England No. 5606089 Registered Office: Tempsford Hall, Sandy, Bedfordshire, SG19 2BD

From:	Nicholson Katie <katie.nicholson@networkrail.co.uk> on behalf of Network Rail Abnormal Loads <networkrailabnormalloads@networkrail.co.uk></networkrailabnormalloads@networkrail.co.uk></katie.nicholson@networkrail.co.uk>
Sent:	23 March 2018 13:20
То:	Steven Mangham
Subject:	QID 615 RE: Confirmation of Suitable Route - 314597

Hi Steven,

Your proposed movement does not affect any Network Rail owned road over rail bridges or tunnels therefore we have no objection to your proposed routes.

Please note we only check the load carrying capacity of Network Rail owned road over rail bridges affected we do not check anything else including:

- Load carrying capacity of level crossings
- Clearance to bridge parapets
- Clearance under a rail bridge
- Clearance to overhead wires at level crossings

Many Thanks

Katie Nicholson Abnormal Loads Assistant Abnormal Loads Help Desk: 01908 783 140



Abnormal Loads | National Records Group | Route Services The Quadrant | Elder Gate | Milton Keynes | MK9 1EN D 01908 783 140 | E Katie.Nicholson@networkrail.co.uk W Network Rail Abnormal Loads

From: Steven Mangham [mailto:Steven.Mangham@collett.co.uk]
Sent: 20 March 2018 16:53
To: abloads.area6@kier.co.uk; roadspace.area6@kier.co.uk; abnormalloads@norfolk.gov.uk; Network Rail Abnormal Loads; abnormal.loads@canalrivertrust.org.uk; rsgbrb@jacobs.com
Subject: Confirmation of Suitable Route - 314597

Good Afternoon,

To Whom It May Concern:

Please find attached a Confirmation of Suitable Route request for Norfolk Vanguard.

Please note that, at present, we do not require a permit to move. This request is for information purposes only to ensure that the route is suitable to accept the axles loads proposed and to identify any potential structure issues there may be on the identified route.

If you could response in writing to <u>steven.mangham@collett.co.uk</u> that would be much appreciated.

Kind Regards,

Steven Mangham

Consulting Team Manager/Renewables Project Manager

Collett & Sons Ltd | Victoria Terminal | Albert Road | Halifax | HX2 0DF | UK Tel: +44 (0)8456 255288 | Fax: +44 (0)8456 255244 | Mob: Email: <u>steven.mangham@collett.co.uk</u> | Web: <u>www.collett.co.uk</u>



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Network Rail Infrastructure Limited registered in England and Wales No. 2904587, registered office Network Rail, 2nd Floor, One Eversholt Street, London, NW1 2DN

From:	ETD Bridges <pandt.bridges@norfolk.gov.uk></pandt.bridges@norfolk.gov.uk>
Sent:	21 March 2018 12:15
То:	Steven Mangham
Subject:	RE: MOVING - NO DATE FW: Confirmation of Suitable Route - 314597
	ABNORMAL LOAD

Hi Steven

I have checked the routes and do not see any problems with the proposed vehicle/axle loads travelling over the NCC owned structures on the route. NCC are not responsible for the structures on the A47 and you will need to contact Highways England for them to comment on the suitability of that part of the route.

Regards

Mark

Mark North Bridge Network Engineer Highways & Transport Community and Environmental Services

Direct Dial Telephone No: 01603 223804 Direct Fax No: 01603 223305 E-mail: mark.north@norfolk.gov.uk

Norfolk County Council

General enquiries: 0344 800 8020 or <u>information@norfolk.gov.uk</u> Website: <u>www.norfolk.gov.uk</u>

From: Abnormal Loads
Sent: 21 March 2018 08:56
To: ETD Bridges pandt.bridges@norfolk.gov.uk
Subject: MOVING - NO DATE FW: Confirmation of Suitable Route - 314597 ABNORMAL LOAD

From: Steven Mangham [mailto:Steven.Mangham@collett.co.uk]
Sent: 20 March 2018 16:53
To: abloads.area6@kier.co.uk; roadspace.area6@kier.co.uk; Abnormal Loads abnormalloads@norfolk.gov.uk;
Abnormal Loads Contact (AbnormalLoadsContact@networkrail.co.uk) <<u>AbnormalLoadsContact@networkrail.co.uk</u>;
abnormal.loads@canalrivertrust.org.uk; rsgbrb@jacobs.com
Subject: Confirmation of Suitable Route - 314597

Good Afternoon,

To Whom It May Concern:

Please find attached a Confirmation of Suitable Route request for Norfolk Vanguard.

Please note that, at present, we do not require a permit to move. This request is for information purposes only to ensure that the route is suitable to accept the axles loads proposed and to identify any potential structure issues there may be on the identified route.

If you could response in writing to steven.mangham@collett.co.uk that would be much appreciated.

Kind Regards,

Steven Mangham

Consulting Team Manager/Renewables Project Manager

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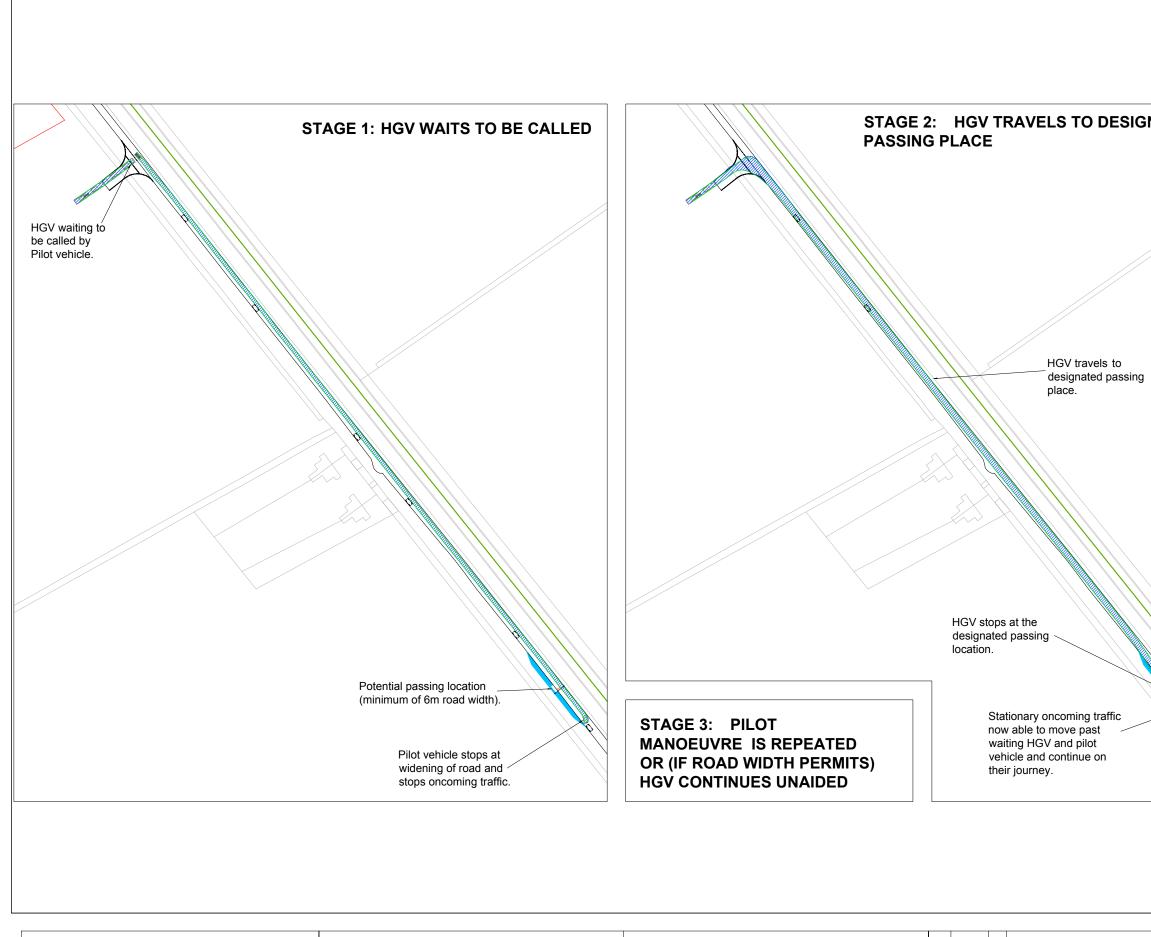
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APPENDIX 3: PILOT VEHICLE CONCEPT







PROJECT: NORFOLK VANGUARD OFFSHORE WIND FARM

TITLE: PILOT VEHICLE WITH PASSING PLACES

Rev Date By Comment

Ø	المحمحط	
Ψ	Legend	
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NATED		
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\sim		
	Drg No	TP-PB47476-DR011
	Rev	D0.1
	Date	02.05.18

Drg No	TP-PB47476-DR011	
Rev	D0.1	
Date	02.05.18	
Layout	LAYOUT	