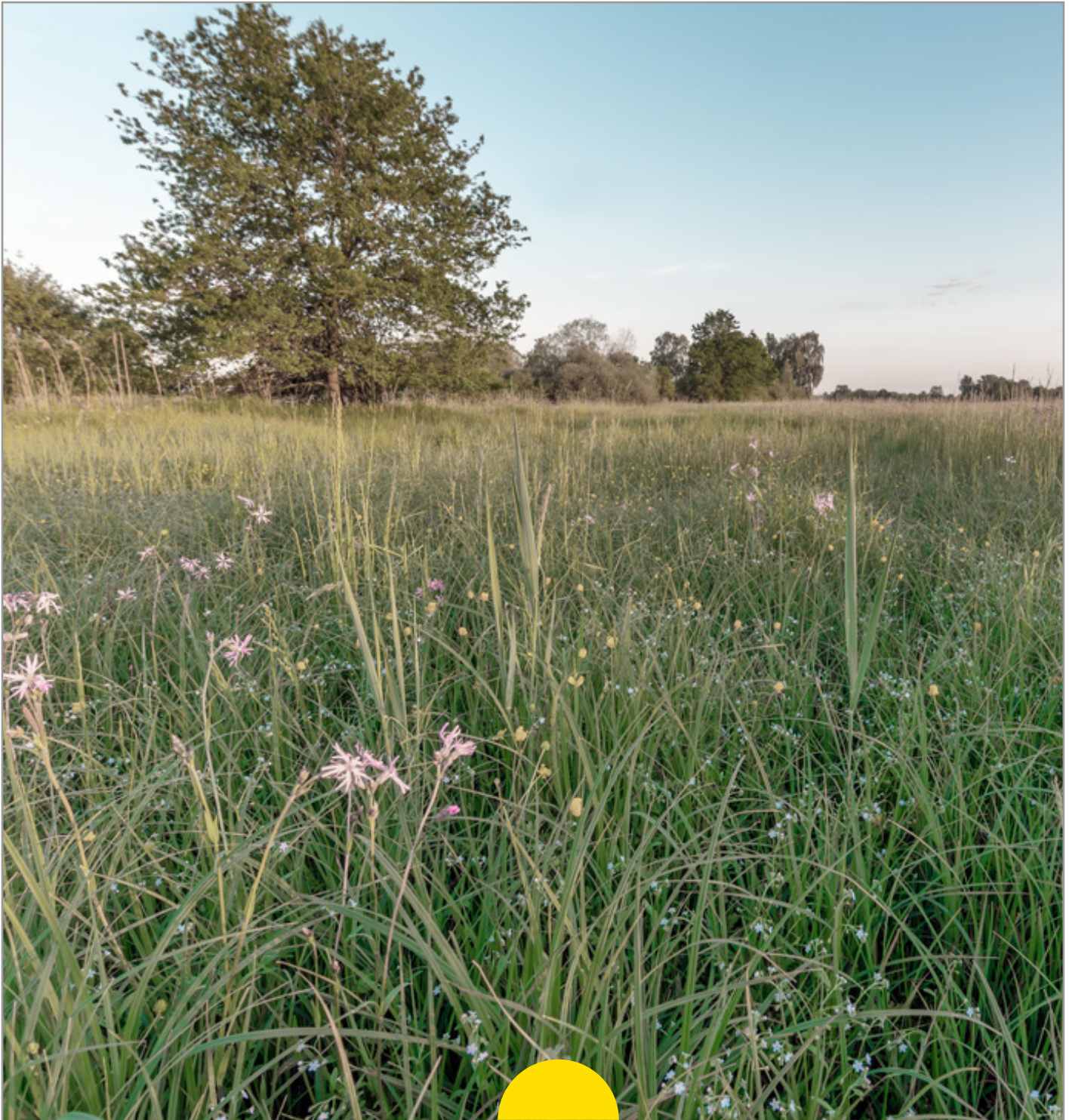


Norfolk Offshore Wind Zone

Community Drop-in Information Event Materials
Necton Community Centre

July 2023



VATTENFALL

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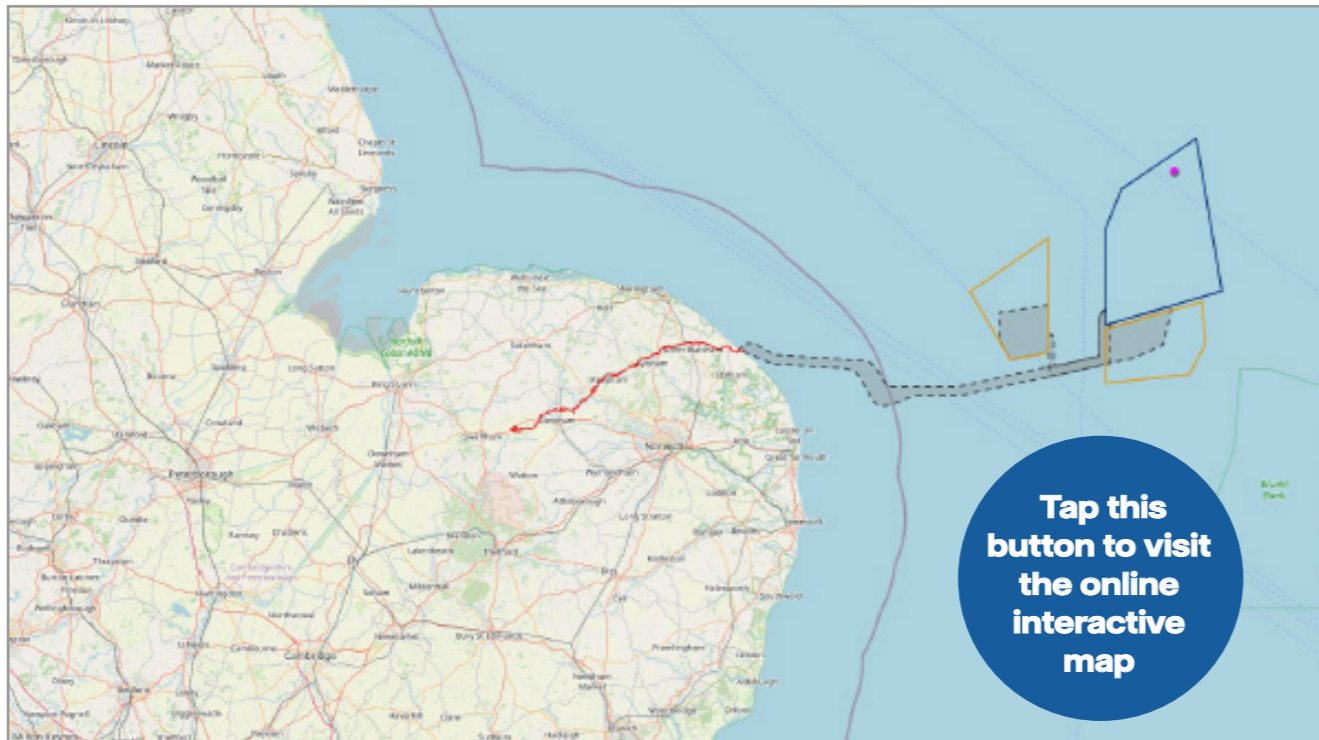
Denise Hone
Stakeholder & Community Engagement Manager
Norfolk Offshore Wind Zone

Hello,
Vattenfall has now begun early preparation works for Norfolk Offshore Wind Zone and there is more activity to come in and around Necton in coming months. To ensure the local community is kept up to date, we held another Public Information Day at Necton Community Centre on Friday 21st July.

This pack contains the materials that we shared and discussed with local residents and community representatives at that event.

If you have any questions about the project, please don't hesitate to get in touch. You'll find information on how to do that on the last page. Thank you for your continued interest in our projects.

Best regards,
Denise Hone



Event Poster



Sharing information regarding upcoming works in your area.

Where: Necton Community Centre, 13 Tuns Road, Necton, PE37 8EH

Date: 21st July

Time: 09:00 - 20:00

Providing opportunity for local members of the public to drop in, meet members of the team who will be in attendance throughout, presenting the latest information.

Topics in focus, include:

- Cable routes
- Traffic management
- Principal contractors
- Community Benefit Fund
- Skills and employment opportunities

Vattenfall are preparing to begin the construction of the Norfolk Offshore Wind Zone. Once operating, the zone will provide enough power for **4.6 million UK homes**. Approximately 60km of shared underground cabling will connect the power produced offshore to onshore project substations, which are co-located near Necton, Norfolk.

helps us make sustainable and robust decisions and deliver better projects.

Community engagement and local dialogue is important to Vattenfall. We believe involving local people and stakeholders

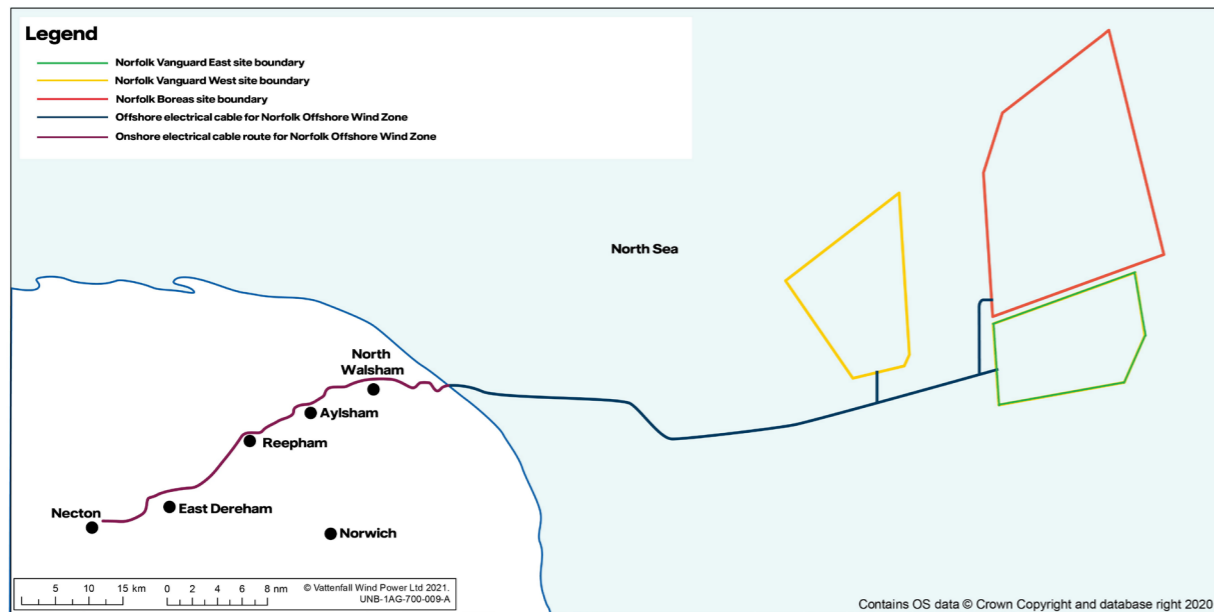
Now, we'd like to update you, residents and businesses on when the construction works are likely to start, what you'll notice, and what you can expect.

We look forward to seeing you.

For more information on Norfolk Vanguard and Norfolk Boreas Offshore Wind Farms please visit the dedicated project website or email the team below:

www.vattenfall.co.uk/VattenfallinNorfolk • norfolk@vattenfall.com

Overview



Changes to the Norfolk Zone Development Programme

Over the last seven years we have been developing the Norfolk Offshore Wind Zone (NOWZ), one of the most innovative and ambitious offshore wind clusters ever designed. We believe in the strong fundamentals and rationale for the offshore wind farm projects that make up the NOWZ (Norfolk Vanguard West, Norfolk Vanguard East and Norfolk Boreas), which are vital to secure affordable, clean and secure energy to the UK and have the potential to create substantial value from local and national supply chains.

However, as you may already be aware from media coverage in East Anglia, we have made some changes to our development plans for the NOWZ. Due to significantly deteriorating market conditions in the last year since the war in Ukraine, the effects of rising costs and supply chain delays, Vattenfall has taken the very difficult decision to stop the current development track for the Norfolk Boreas Wind Farm part of the NOWZ.

As a team, we are disappointed that we can't take Norfolk Boreas forward at this time. However, we remain committed to offshore wind in the UK, and to the East of England, and we are continuing to develop the Norfolk Vanguard projects as part of the NOWZ as planned, bringing you with us on our journey.



Siemens AC180 S278 Works

Pages 8-15

What are these works?

In order to improve safety for road users, improve ease of access and minimise impact on the existing traffic network, an existing farmer's track will be upgraded to provide a new, permanent access road from the A47 to the Norfolk Offshore Wind Zone substation site at Necton.

What will this involve?

In order to progress the track upgrade, we have already removed some vegetation along the A47, near Spicers Corner (What3Words location: nurture.saves.column). This vegetation consisted of 6 trees and smaller fledgling trees/shrubbery. An extensive landscaping scheme in the near future will ensure that more trees are replanted than removed in the surrounding vicinity.

The compound and welfare facilities have been constructed and materials and plant have arrived on-site. Road upgrade works will now follow and this will consist of: a new bellmouth directly off the A47, creating a new access point for the substation site. These works will also reconfigure the A47, providing a new central reservation lane (ghost lane) for traffic travelling east on the A47 to safely turn right. The ghost lane itself is 150m in length, giving ample time for users to pull in early and reduce speed accordingly.

When will this work happen?

Activity will start on 11th August and will last for 10 weeks in total. To minimise disruption on road users, the work will happen overnight in the hours from 20:00 to 06:00. For the first 6 weeks the road will be partly closed with traffic lights operating and a one lane system. For the remaining 4 weeks the road will be completely closed and a Traffic Management Plan will be in operation.

Which drawings are associated with these works?

Drawing Numbers

- | | |
|--|---------------|
| • PB5640-RHD-DE-AC180-DR-D-0100-P06 | pages 8 & 9 |
| • PB5640-RHD-DE-AC180-DR-D-0106-P04 | pages 10 & 11 |
| • PB5640-RHD-DE-AC180-DR-D-0107-P02 | pages 12 & 13 |
| • A47 Necton - Full Closure - Primary Route - P2 | pages 14 & 15 |

Onshore Substation Access Road

Pages 16-21

Construction of the access road for the substation will commence following completion of AC180 works. We expect this work to start on 4th October 2023 and run through to the 9th April 2024.

The proposed A47 Access Road will be approximately 1.6km in length and will run in a general south-easterly direction from its proposed junction with the A47 Trunk Road at approximate National Grid reference 589290E, 311413N, to the proposed substation sites, centred at approximately at 590082E, 310371N.

The proposed road alignment joins an existing farmer's track some 120m from the A47 and follows this south-eastwards for approximately 320m before crossing arable land for an estimated further 170m.

Which drawings are associated with these works?

- BASO-SEN-WML01-Q-XD-0023_C01a pages 16 & 17
- BASO-SEN-WML01-Q-XD-0024_C01 pages 18 & 19
- BASO-SEN-WML01-Q-XD-0025_C01b pages 20 & 21

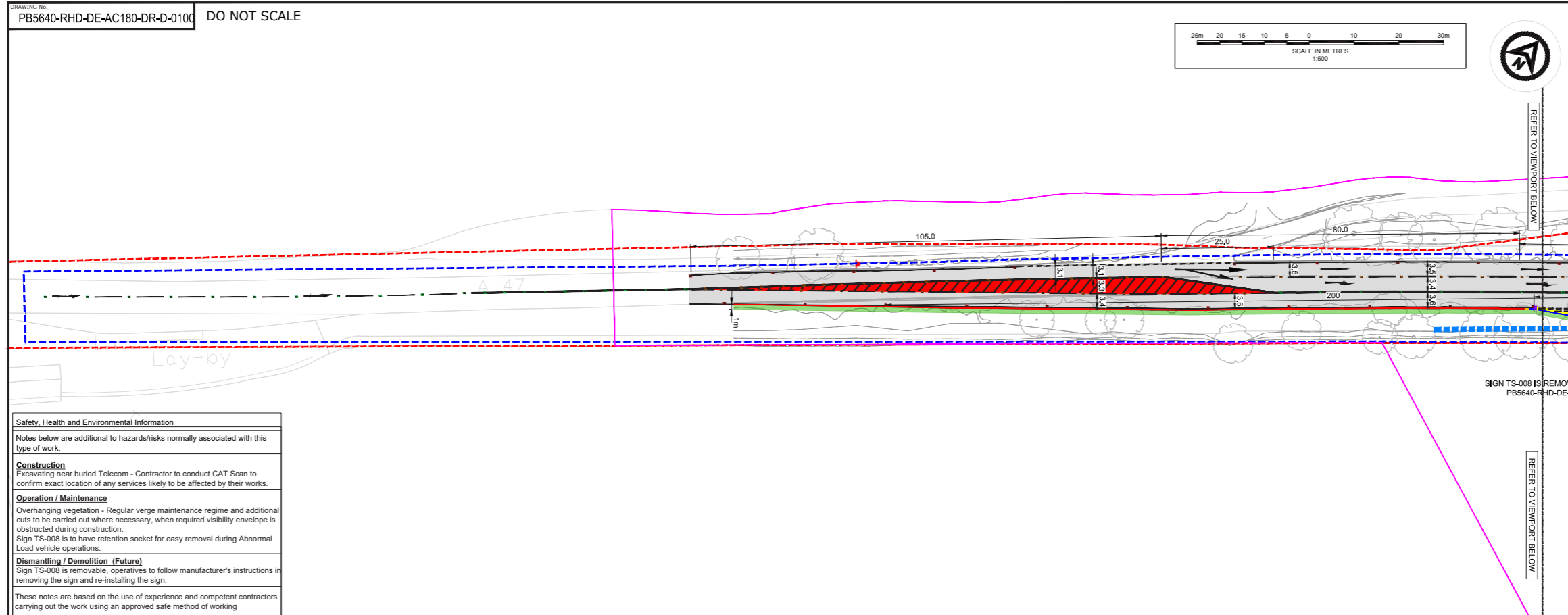
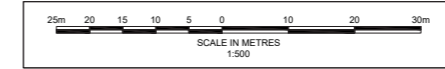
Who should I contact if I have questions about these works?

If you have questions, please contact the Community Liaison Officer for the Norfolk Zone, Will Sealey.

E: william.sealey@vattenfall.com M: 07773 661068



DRAWING No. PB5640-RHD-DE-AC180-DR-D-0100 DO NOT SCALE



Safety, Health and Environmental Information

Notes below are additional to hazards/risks normally associated with this type of work:

Construction
Excavating near buried Telecom - Contractor to conduct CAT Scan to confirm exact location of any services likely to be affected by their works.

Operation / Maintenance
Overhanging vegetation - Regular verge maintenance regime and additional cuts to be carried out where necessary, when required visibility envelope is obstructed during construction.
Sign TS-008 is to have retention socket for easy removal during Abnormal Load vehicle operations.

Dismantling / Demolition (Future)
Sign TS-008 is removable, operatives to follow manufacturer's instructions in removing the sign and re-installing the sign.

These notes are based on the use of experience and competent contractors carrying out the work using an approved safe method of working

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY SITE WORK.
 - THIS DRAWING HAS BEEN BASED UPON SURVEY INFORMATION SUPPLIED BY SURVEY SOLUTIONS ON 13.03.2022. HAGIS RECORDS PROVIDED BY NATIONAL HIGHWAYS 27.11.2022 AND ROYAL HASKONINGDHV CANNOT GUARANTEE THE ACCURACY OF THE DATA.
 - THE APPLICANT IS TO COMPLY WITH A REGULAR VERGE MAINTENANCE REGIME AND ADDITIONAL CUTS TO BE CARRIED OUT WHERE NECESSARY, WHEN REQUIRED VISIBILITY ENVELOPE IS OBSTRUCTED DURING CONSTRUCTION. ONCE ACCESS IS ADOPTED BY NATIONAL HIGHWAYS, ALL MAINTENANCE RESPONSIBILITIES OF VERGE WITHIN ADOPTED HIGHWAY IS REVERTED BACK TO NATIONAL HIGHWAYS.

- KEY:**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - S278 WORKS AREA
 - PROPOSED ROAD MARKINGS (WHITE), REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200
 - PROPOSED ROAD MARKINGS (YELLOW), REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200
 - PROPOSED CARRIAGEWAY AREA REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-0700
 - TYPE 1 IN-FILL - 450mm DEPTH, AREA = 16m² REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-0700
 - PROPOSED GRASS VERGE, 1m WIDE TOP SOIL WITH SEEDING AREA = 340m²
 - PROPOSED RED COLOURED SURFACING UNDER HATCHED MARKING
 - K1 PROPOSED CONCRETE KERB 150x305 HB1
 - K2 PROPOSED CONCRETE CHANNEL KERB 150x125 CS2
 - PROPOSED TRANSITION KERB - 915mm LENGTH - TK1
 - K3 PROPOSED EDGING KERB - 50x150 EF1 - FLUSH
 - PROPOSED ROAD SIGN REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200
 - KERB TO BE INSTALLED BY DEVELOPERS - OUTSIDE OF S278 WORKS AREA
 - PROPOSED BI-DIRECTIONAL STUDS (WHITE)
 - PROPOSED UNI-DIRECTIONAL STUDS (WHITE)
 - PROPOSED UNI-DIRECTIONAL STUDS (RED)
 - PROPOSED GULLY, REFER TO HCD F13, D400 GRATING
 - PROPOSED INFILTRATION TRENCH, REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-0500

REV	DATE	DESCRIPTION	BY	CHK	APP
P06	13.03.22	UPDATED TO ADDRESS NH COMMENTS	SN	YZ	PJ
P05	17.01.22	UPDATED TO ADDRESS NH COMMENTS	AA	YZ	PJ
P04	11.01.22	UPDATED TO ADDRESS NH COMMENTS	AA	YZ	PJ
P03	07.11.22	UPDATED TO ADDRESS NH REA COMMENTS	RNE	YZ	PJ
P02	07.11.22	UPDATED TO ADDRESS NH COMMENTS	BE	YZ	PJ
P01	22.8.22	FIRST ISSUE	EK	YZ	PJ

REVISIONS

CLIENT



PROJECT
NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE
NEW ONS ACCESS ROAD AC180 JUNCTION WITH A47 GENERAL ARRANGEMENT SHEET 1 of 2



DRAWN	CHECKED	APPROVED
EK	YZ	PJ

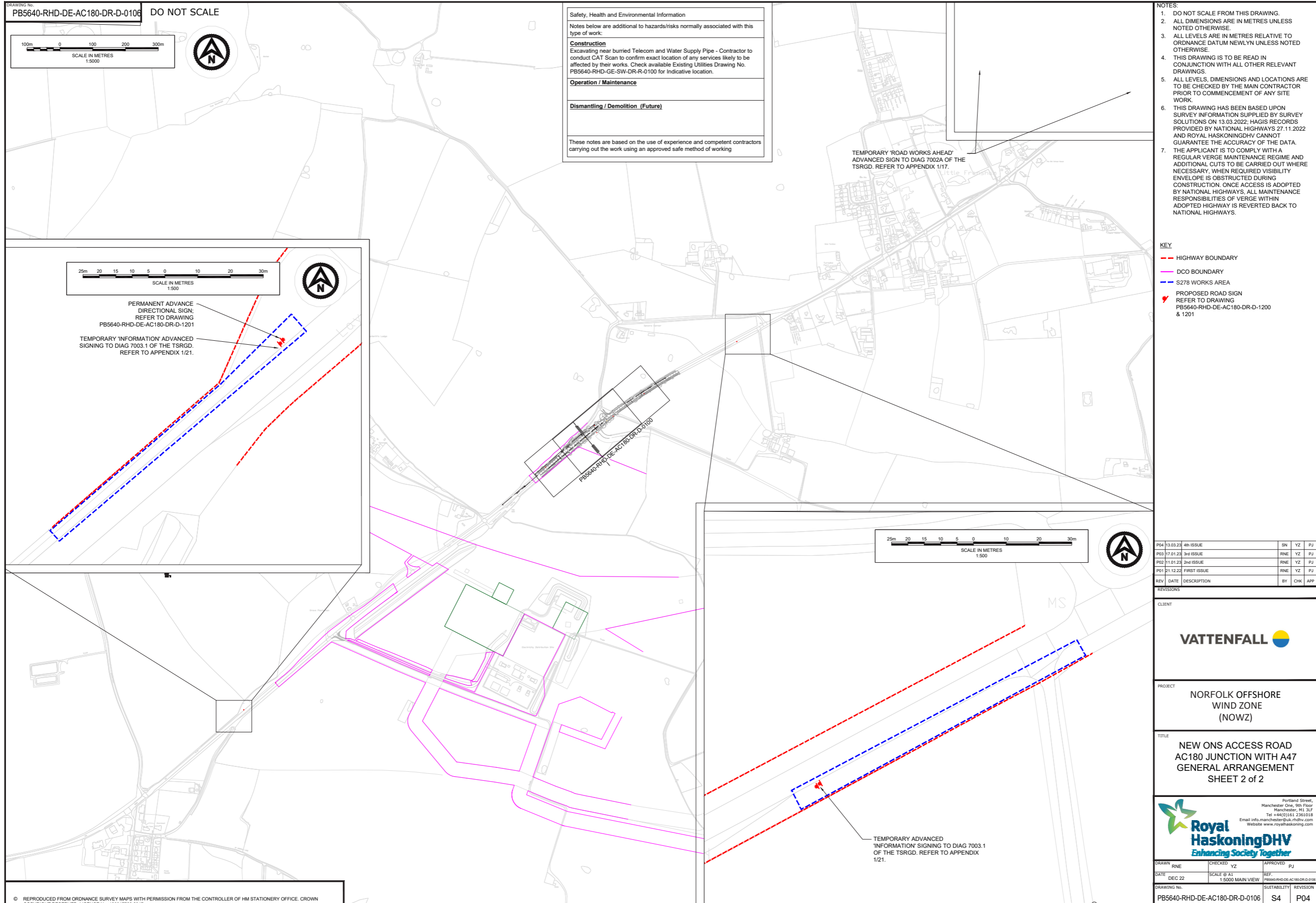
DATE: JUN 22 SCALE: @ A1 1:500 REF: PB5640-RHD-DE-AC180-DR-D-0100

DRAWING No.	SUITABILITY	REVISION
PB5640-RHD-DE-AC180-DR-D-0100	S4	P06

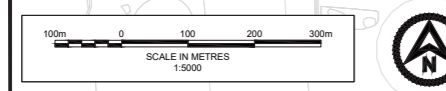
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DRAWING No. PB5640-RHD-DE-AC180-DR-D-0106 DO NOT SCALE



Safety, Health and Environmental Information
 Notes below are additional to hazards/risks normally associated with this type of work:

Construction
 Excavating near buried Telecom and Water Supply Pipe - Contractor to conduct CAT Scan to confirm exact location of any services likely to be affected by their works. Check available Existing Utilities Drawing No. PB5640-RHD-GE-SW-DR-R-0100 for Indicative location.

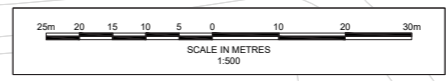
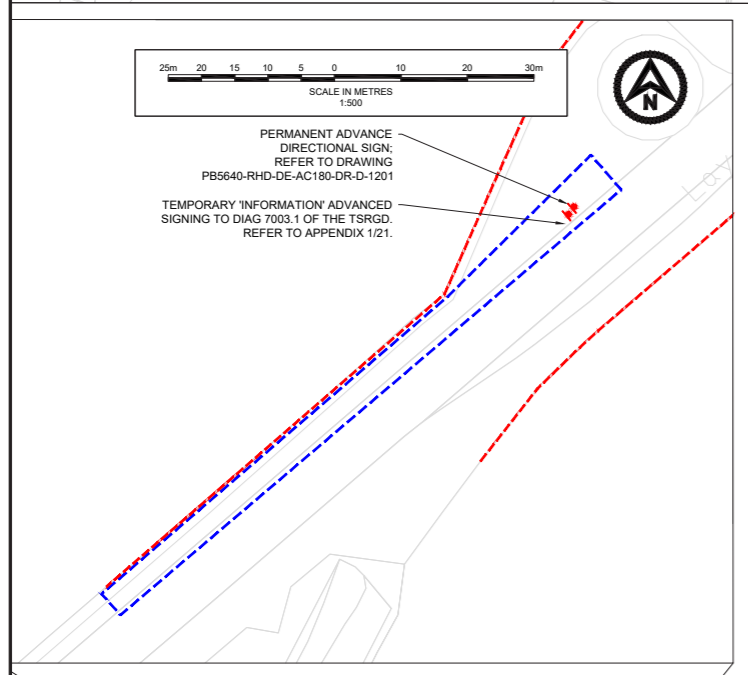
Operation / Maintenance

Dismantling / Demolition (Future)

These notes are based on the use of experience and competent contractors carrying out the work using an approved safe method of working

- NOTES:**
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- KEY**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - S278 WORKS AREA
 - ▲ PROPOSED ROAD SIGN REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200 & 1201



REV	DATE	DESCRIPTION	BY	CHK	APP
P04	13.03.22	4th ISSUE	SN	YZ	PJ
P03	17.01.22	3rd ISSUE	RNE	YZ	PJ
P02	11.01.22	2nd ISSUE	RNE	YZ	PJ
P01	21.12.22	FIRST ISSUE	RNE	YZ	PJ

CLIENT

VATTENFALL

PROJECT

NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE

NEW ONS ACCESS ROAD AC180 JUNCTION WITH A47 GENERAL ARRANGEMENT SHEET 2 of 2

Royal HaskoningDHV
 Enhancing Society Together

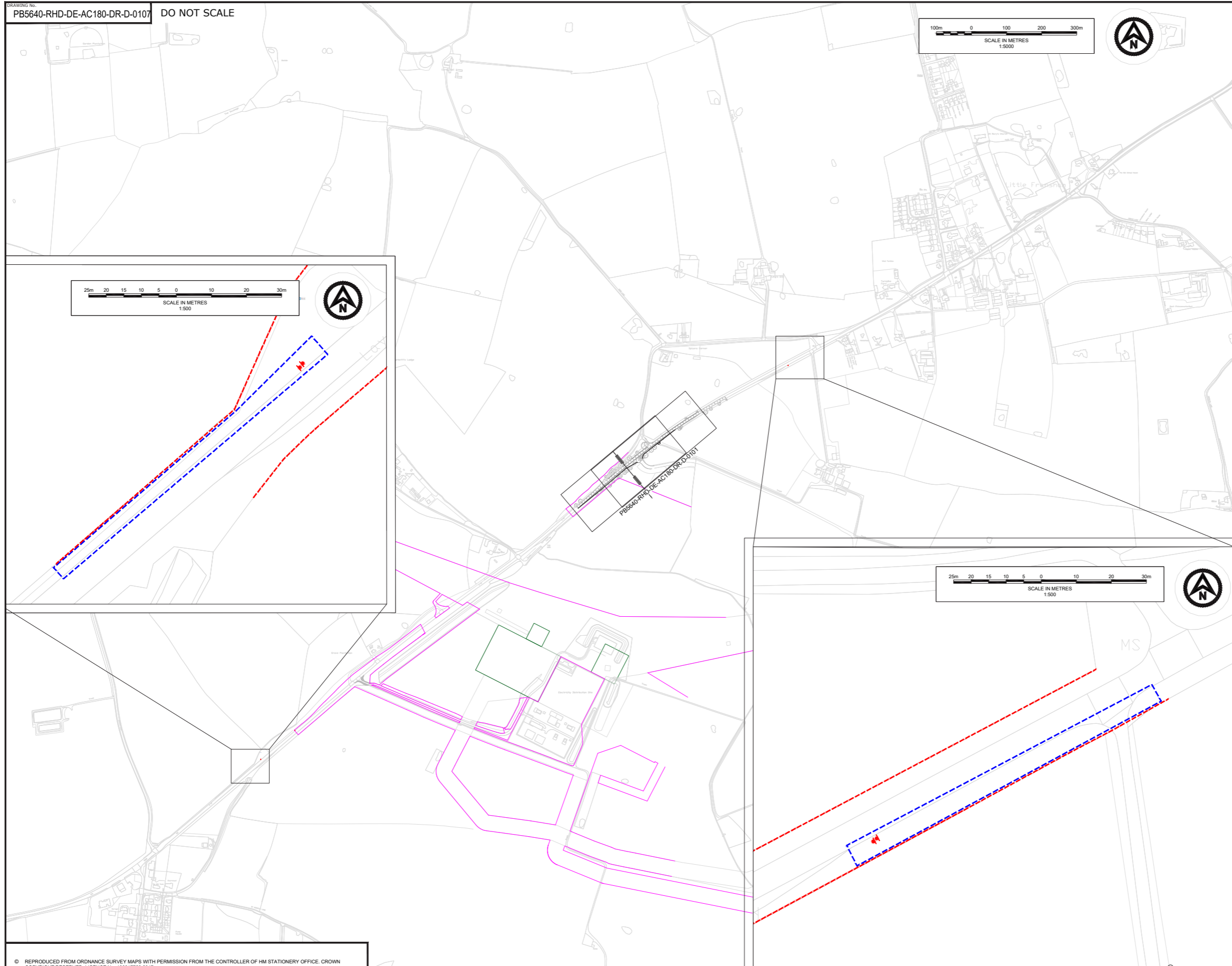
Portland Street, Manchester One, 5th Floor, Manchester, M1 3LF
 Tel +44(0)161 2361018
 Email info.manchester@rhdhv.com
 Website www.royalhaskoning.com

DRAWN	CHECKED	APPROVED
RNE	YZ	PJ

DATE DEC 22 SCALE @ A1 REF. PB5640-RHD-DE-AC180-DR-D-0106
 1:5000 MAIN VIEW

DRAWING No.	SUITABILITY	REVISION
PB5640-RHD-DE-AC180-DR-D-0106	S4	P04

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- NOTES:**
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 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
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- KEY**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - S278 WORKS AREA

P02	14.03.22	SECOND ISSUE	SN	YZ	PJ
P01	11.01.22	FIRST ISSUE	RNE	YZ	PJ
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

CLIENT



PROJECT
NORFOLK OFFSHORE WIND ZONE (NOWZ)

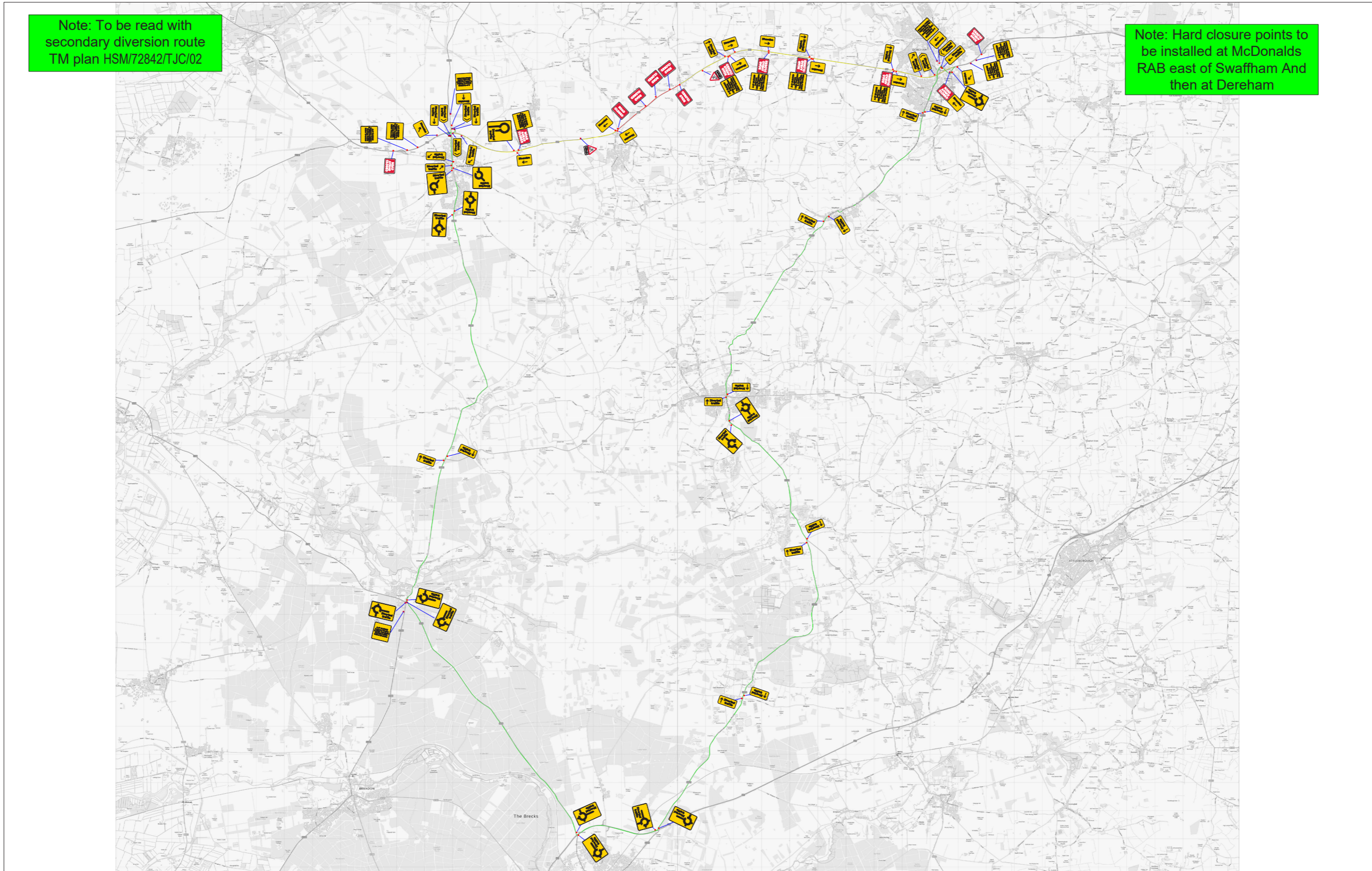
TITLE
NEW ONS ACCESS ROAD AC180 JUNCTION WITH A47 S278 AGREEMENT SHEET 2 of 2



DRAWN	RNE	CHECKED	YZ	APPROVED	PJ
DATE	DEC 22	SCALE @ A1	1:5000 untd	REF	PB5640-RHD-DE-AC180-DR-D-0107
DRAWING No.	PB5640-RHD-DE-AC180-DR-D-0107	SUITABILITY	S4	REVISION	P02

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Note: To be read with secondary diversion route TM plan HSM/72842/TJC/02

Note: Hard closure points to be installed at McDonalds RAB east of Swaffham And then at Dereham

Speed Limit Safety Zones

SAFETY ZONE (SIDEWAYS)	SAFETY ZONE (L/RT TURN)
1.2M	60M

Key

	CONE SIGNS
	EXTENT OF ROAD CLOSURE
	ACCESS ONLY
	DIVERSION ROUTE

Notes

- All dimensions are in metres unless otherwise stated.
- All traffic management to comply with Chapter 8 and any updates, and Safety at Street Works and Road Works (A Code of Practice)
- All road markings and signs to be as per the Traffic Signs Regulations and General Directions 2016.
- All permanent traffic signals will be bagged and switched out, at all times that temporary traffic signals are being used. This should be done with approval from said authority.
- A minimum clearance of 1.5m (absolute minimum 1.0m) to be maintained for pedestrians on footways. If this cannot be maintained signs to be placed in the c/way with associated coning.

HSM
TRAFFIC MANAGEMENT

HIGHWAY SAFETY MANAGEMENT LTD
BEACONSFIELD ROAD
IPSWICH
SUFFOLK, IP1 4AD
01449 745755 (t)
www.highwaysafe.co.uk

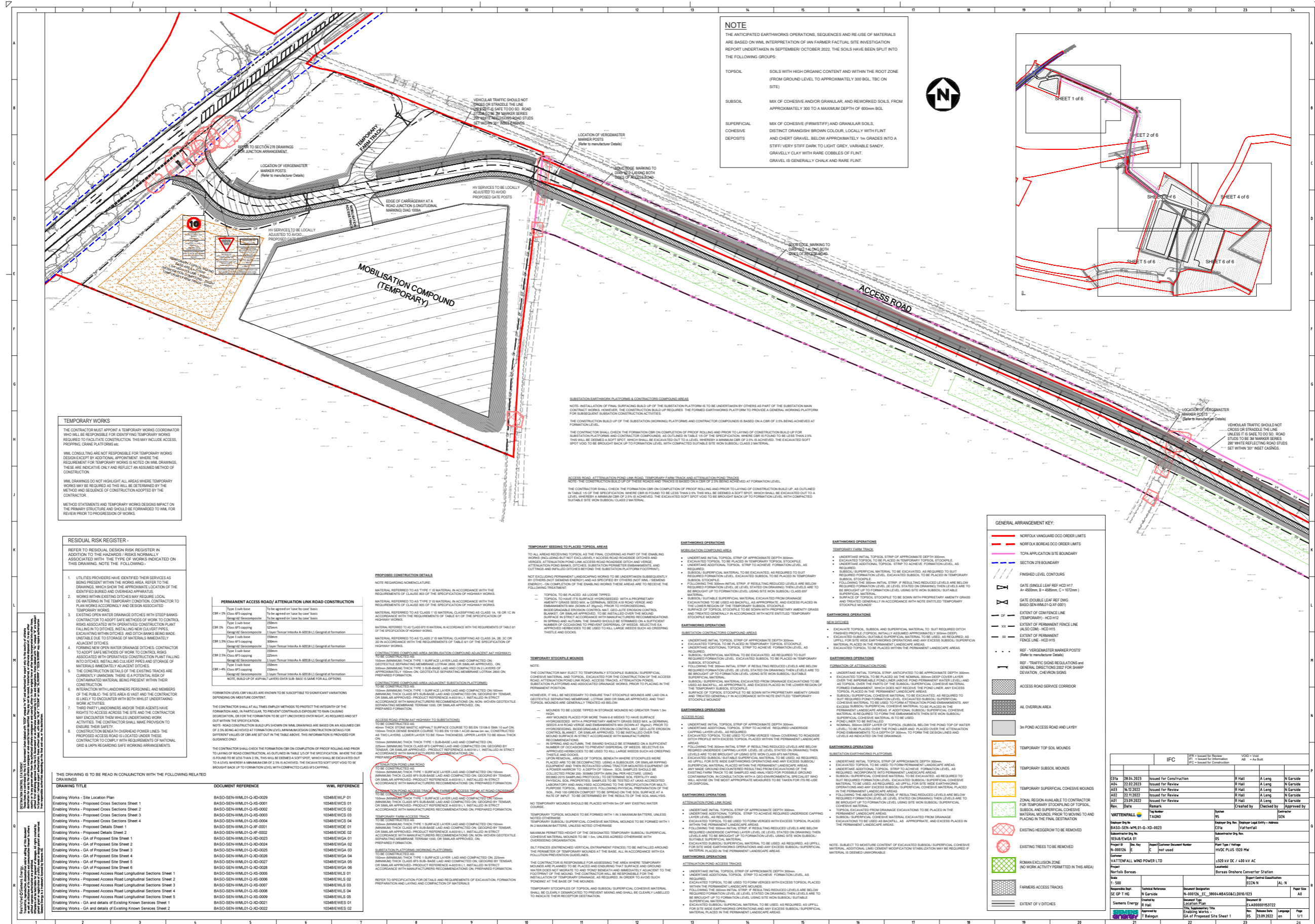
Client

Location
A47, NECTON, NR19 2RQ

Work Details
WINDFARM NEW JUNCTION WORKS

Description	Rev.	Date	By
Original Issue for Comments	P1	21/02/23	TJC
Revisions	P2		
	P3		
	P4		
	P5		
	P6		
	P7		

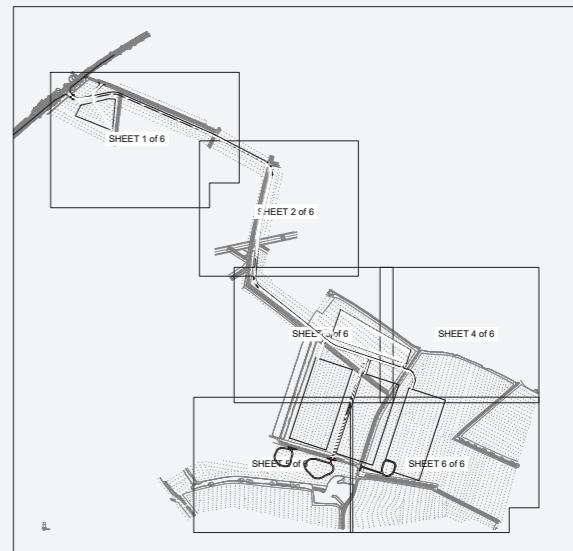
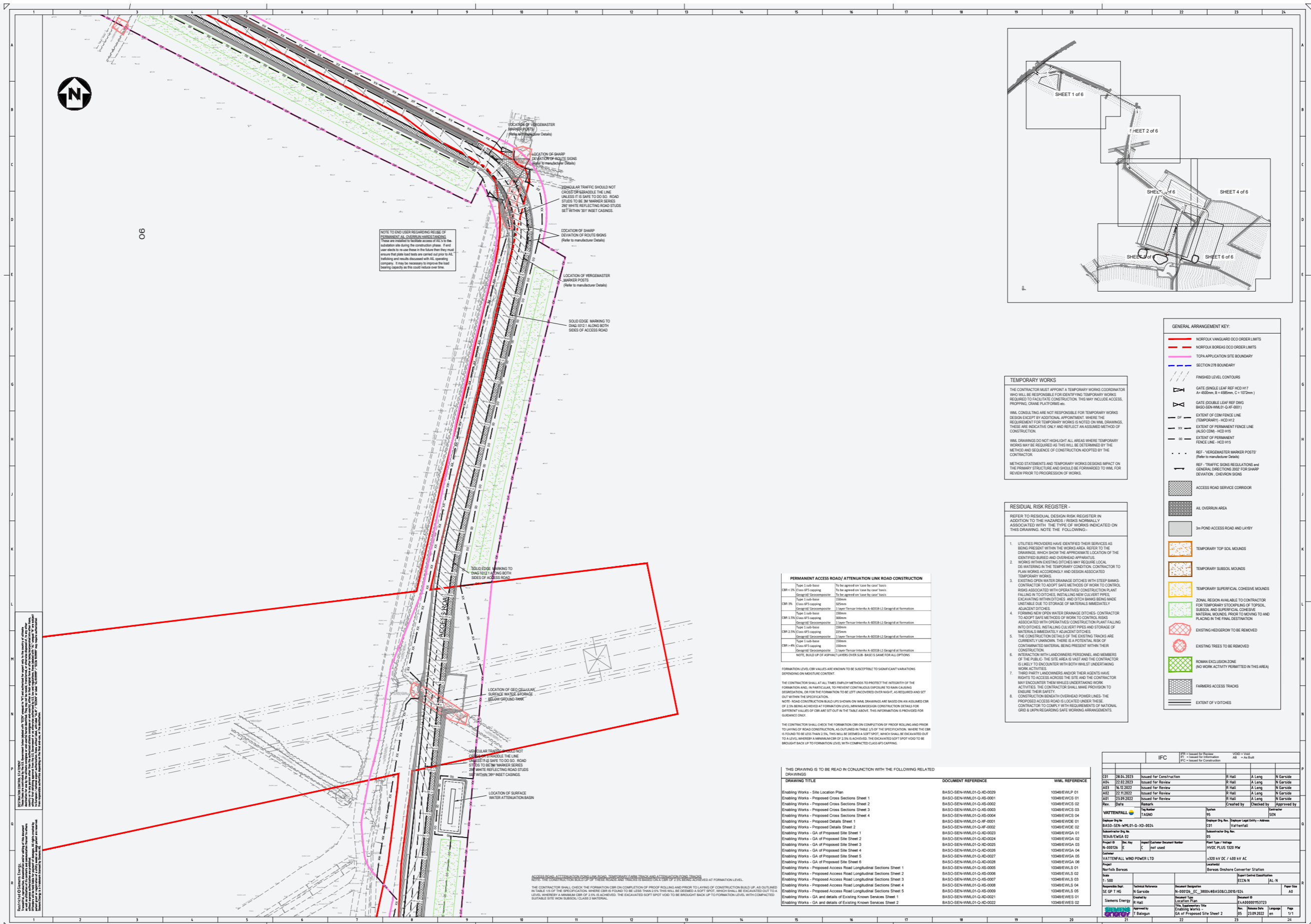
Originator	Designer	Checked	Approved
HSM	TC	RC	SB
Scale(s) @ Original Size A3		Date	
NOT TO SCALE		FEB 2023	
Drawing Number			Revision
HSM/72842/TJC/01			P1



Rev	Date	By	Check	Appr	Description
010	28.04.2023	Watt	Watt	Watt	Issue for Construction
011	22.03.2023	Watt	Watt	Watt	Issued for Review
012	22.03.2023	Watt	Watt	Watt	Issued for Review
013	16.03.2023	Watt	Watt	Watt	Issued for Review
014	15.03.2023	Watt	Watt	Watt	Issued for Review
015	15.03.2023	Watt	Watt	Watt	Issued for Review

Author	Checker	Appr	Scale
Watt	Watt	Watt	1:500
Watt	Watt	Watt	1:500
Watt	Watt	Watt	1:500

Project	Location	Drawn	Checked	Appr	Date
VATTENFALL WIND POWER LTD	WATTENFALL WIND POWER LTD	Watt	Watt	Watt	23.09.2022



TEMPORARY WORKS

THE CONTRACTOR MUST APPOINT A TEMPORARY WORKS COORDINATOR WHO WILL BE RESPONSIBLE FOR IDENTIFYING TEMPORARY WORKS REQUIRED TO FACILITATE CONSTRUCTION. THIS MAY INCLUDE ACCESS, PROPPING, CRANE PLATFORMS ETC.

WML CONSULTING ARE NOT RESPONSIBLE FOR TEMPORARY WORKS DESIGN EXCEPT BY ADDITIONAL APPOINTMENT. WHERE THE REQUIREMENT FOR TEMPORARY WORKS IS NOTED ON WML DRAWINGS, THESE ARE INDICATIVE ONLY AND REFLECT AN ASSUMED METHOD OF CONSTRUCTION.

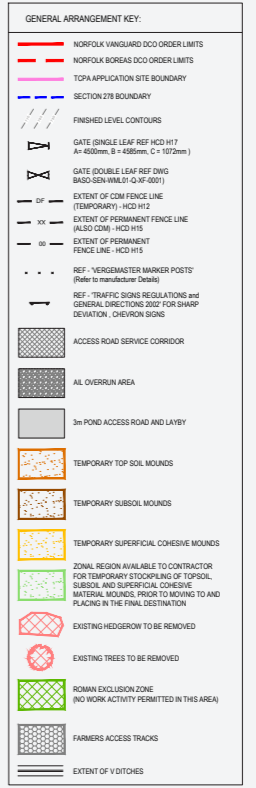
WML DRAWINGS DO NOT HIGHLIGHT ALL AREAS WHERE TEMPORARY WORKS MAY BE REQUIRED AS THIS WILL BE DETERMINED BY THE METHOD AND SEQUENCE OF CONSTRUCTION ADOPTED BY THE CONTRACTOR.

METHOD STATEMENTS AND TEMPORARY WORKS DESIGNS IMPACT ON THE PRIMARY STRUCTURE AND SHOULD BE FORWARDED TO WML FOR REVIEW PRIOR TO PROGRESSION OF WORKS.

RESIDUAL RISK REGISTER -

REFER TO RESIDUAL DESIGN RISK REGISTER IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS INDICATED ON THIS DRAWING. NOTE THE FOLLOWING:

- UTILITIES PROVIDERS HAVE IDENTIFIED THEIR SERVICES AS BEING PRESENT WITHIN THE WORKS AREA. REFER TO THE DRAWING, WHICH SHOWS THE APPROXIMATE LOCATION OF THE IDENTIFIED BURIED AND OVERHEAD APPARATUS.
- WORKS WITHIN EXISTING DITCHES MAY REQUIRE LOCAL DEWATERING IN THE TEMPORARY CONDITION. CONTRACTOR TO PLAN WORKS ACCORDINGLY AND DESIGN ASSOCIATED TEMPORARY WORKS.
- EXISTING OPEN WATER DRAINAGE DITCHES WITH STEEP BANKS. CONTRACTOR TO ADOPT SAFE METHODS OF WORK TO CONTROL RISKS ASSOCIATED WITH OPERATIVE CONSTRUCTION PLANT FALLING INTO DITCHES. INSTALLING NEW COLLAR PILES EXCAVATING WITHIN DITCHES AND DITCH BANKS BEING MADE UNAVAILABLE TO STORAGE OF MATERIALS IMMEDIATELY ADJACENT DITCHES.
- FORMING NEW OPEN WATER DRAINAGE DITCHES. CONTRACTOR TO ADOPT SAFE METHODS OF WORK TO CONTROL RISKS ASSOCIATED WITH OPERATIVE CONSTRUCTION PLANT FALLING INTO DITCHES. INSTALLING COLLAR PILES STORAGE OF MATERIALS IMMEDIATELY ADJACENT DITCHES.
- THE CONTRACTOR SHALL BE AWARE THAT THE TRACKS ARE CURRENTLY UNKNOWN. THERE IS A POTENTIAL RISK OF CONTAMINATED MATERIAL BEING PRESENT WITHIN THEIR CONSTRUCTION.
- INTERACTION WITH LANDOWNERS PERSONNEL AND MEMBERS OF THE PUBLIC. THE SITE AREA IS VAST AND THE CONTRACTOR IS LIKELY TO ENCOUNTER WITH BOTH WHILE UNDERTAKING WORK ACTIVITIES.
- THIRD PARTY LANDOWNERS AND/OR THEIR AGENTS HAVE RIGHTS TO ACCESS ACROSS THE SITE AND THE CONTRACTOR MAY ENCOUNTER THEM WHILE UNDERTAKING WORK ACTIVITIES. THE CONTRACTOR SHALL MAKE PROVISION TO ENSURE THEIR SAFETY.
- CONSTRUCTION OF EXISTING OVERHEAD POWER LINES. THE PROPOSED ACCESS ROAD IS LOCATED UNDER THESE LINES. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF NATIONAL GRID & UKPN REGARDING SAFE WORKING ARRANGEMENTS.



PERMANENT ACCESS ROAD / ATTENUATION LINK ROAD CONSTRUCTION

Type / Sub-base	To be agreed on case by case basis
CBR 15% Class SP1 capping	To be agreed on case by case basis
Geogrid / Geotextile	To be agreed on case by case basis
Type 1 sub-base	150mm
CBR 15% Class SP1 capping	150mm
Geogrid / Geotextile	1 Layer Tensar Interlock A-4033B L1 Geogrid at formation
Type 1 sub-base	150mm
CBR 15% Class SP1 capping	150mm
Geogrid / Geotextile	1 Layer Tensar Interlock A-4033B L1 Geogrid at formation
Type 1 sub-base	150mm
CBR 15% Class SP1 capping	150mm
Geogrid / Geotextile	1 Layer Tensar Interlock A-4033B L1 Geogrid at formation
Type 1 sub-base	150mm
CBR 15% Class SP1 capping	150mm
Geogrid / Geotextile	1 Layer Tensar Interlock A-4033B L1 Geogrid at formation
Type 1 sub-base	150mm
CBR 15% Class SP1 capping	150mm
Geogrid / Geotextile	1 Layer Tensar Interlock A-4033B L1 Geogrid at formation
Type 1 sub-base	150mm

FORMATION CBR VALUES ARE KNOWN TO BE SUSCEPTIBLE TO SIGNIFICANT VARIATIONS DEPENDING ON MOISTURE CONTENT.

THE CONTRACTOR SHALL AT ALL TIMES EMPLOY METHODS TO PROTECT THE INTEGRITY OF THE FORMATION AND, IN PARTICULAR, TO PREVENT CONTAMINATION (SPECIAL TO BANK CAUSING DEGRADATION), OR FOR THE FORMATION TO BE LEFT UNCOVERED OVERNIGHT, AS REQUIRED AND SET OUT WITHIN THE SPECIFICATION.

NOTE: ROAD CONSTRUCTION BUILD UPS SHOWN ON WML DRAWINGS ARE BASED ON AN ASSUMED CBR OF 15% BEING ACHIEVED AT FORMATION LEVEL. LAMINATED DESIGN CONSTRUCTION DETAILS FOR DIFFERENT VALUES OF CBR ARE SET OUT IN THE TABLE ABOVE. THIS INFORMATION IS PROVIDED FOR GUIDANCE ONLY.

THE CONTRACTOR SHALL CHECK THE FORMATION CBR ON COMPLETION OF PROOF ROLLING AND PRIOR TO ANY ROAD CONSTRUCTION. ACCORDING TO TABLE 10 OF THE SPECIFICATION, WHERE THE CBR IS FOUND TO BE LESS THAN 15%, THIS WILL BE DENIED A SOFT SPOT, WHICH SHALL BE EXCAVATED OUT TO A LEVEL WHEREBY A MINIMUM CBR OF 15% IS ACHIEVED. THE EXCAVATED SOFT SPOT VOID TO BE BROUGHT BACK UP TO FORMATION LEVEL WITH COMPACTED CLASS SP1 CAPPING.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING RELATED DRAWINGS:

DRAWING TITLE	DOCUMENT REFERENCE	WML REFERENCE
Enabling Works - Site Location Plan	BASO-SEN-WML01-Q-00-0009	10348EW01 01
Enabling Works - Proposed Cross Sections Sheet 1	BASO-SEN-WML01-Q-00-0001	10348EW01 02
Enabling Works - Proposed Cross Sections Sheet 2	BASO-SEN-WML01-Q-00-0002	10348EW01 03
Enabling Works - Proposed Cross Sections Sheet 3	BASO-SEN-WML01-Q-00-0003	10348EW01 04
Enabling Works - Proposed Cross Sections Sheet 4	BASO-SEN-WML01-Q-00-0004	10348EW01 05
Enabling Works - Proposed Details Sheet 1	BASO-SEN-WML01-Q-01-0001	10348EW01 06
Enabling Works - Proposed Details Sheet 2	BASO-SEN-WML01-Q-01-0002	10348EW01 07
Enabling Works - GA of Proposed Site Sheet 1	BASO-SEN-WML01-Q-02-0001	10348EW01 08
Enabling Works - GA of Proposed Site Sheet 2	BASO-SEN-WML01-Q-02-0002	10348EW01 09
Enabling Works - GA of Proposed Site Sheet 3	BASO-SEN-WML01-Q-02-0003	10348EW01 10
Enabling Works - GA of Proposed Site Sheet 4	BASO-SEN-WML01-Q-02-0004	10348EW01 11
Enabling Works - GA of Proposed Site Sheet 5	BASO-SEN-WML01-Q-02-0005	10348EW01 12
Enabling Works - GA of Proposed Site Sheet 6	BASO-SEN-WML01-Q-02-0006	10348EW01 13
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 2	BASO-SEN-WML01-Q-03-0002	10348EW01 14
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 3	BASO-SEN-WML01-Q-03-0003	10348EW01 15
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 4	BASO-SEN-WML01-Q-03-0004	10348EW01 16
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 5	BASO-SEN-WML01-Q-03-0005	10348EW01 17
Enabling Works - GA and details of Existing Known Services Sheet 1	BASO-SEN-WML01-Q-04-0001	10348EW01 18
Enabling Works - GA and details of Existing Known Services Sheet 2	BASO-SEN-WML01-Q-04-0002	10348EW01 19

Rev	Date	By	Checked	Approved	Author
001	28.01.2023	Issued for Construction	R Hall	A Long	N Garde
002	22.02.2023	Issued for Review	R Hall	A Long	N Garde
003	16.02.2022	Issued for Review	R Hall	A Long	N Garde
004	22.11.2022	Issued for Review	R Hall	A Long	N Garde
005	23.09.2022	Issued for Review	R Hall	A Long	N Garde

WATTENFALL

Project: **Norfolk Offshore Wind Zone**

Client: **Norfolk Offshore Wind Zone**

Project Manager: **John Smith**

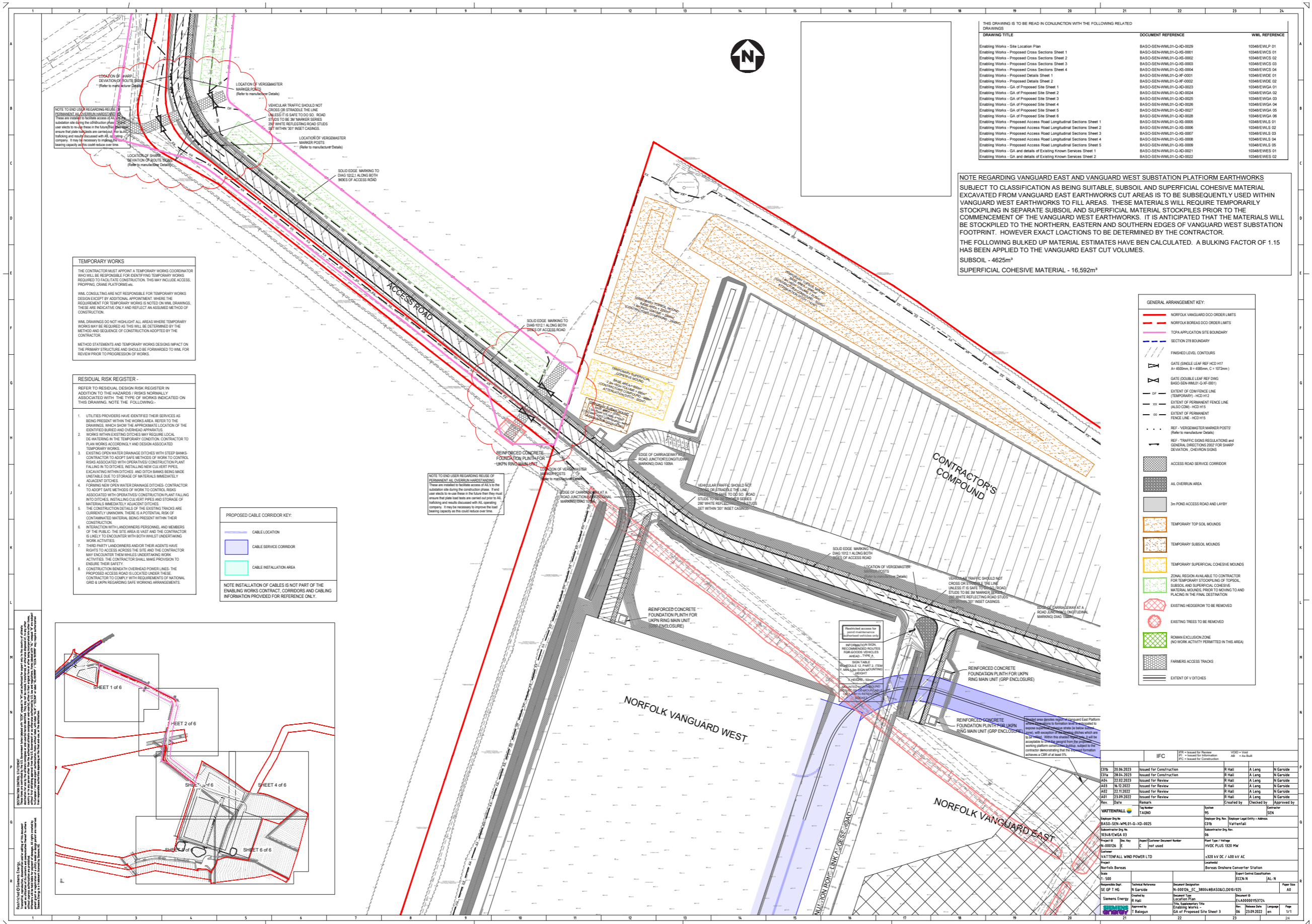
Site: **GA of Proposed Site Sheet 2**

Scale: **1:500**

Revision: **05**

Date: **23.09.2022**

Page: **1/1**



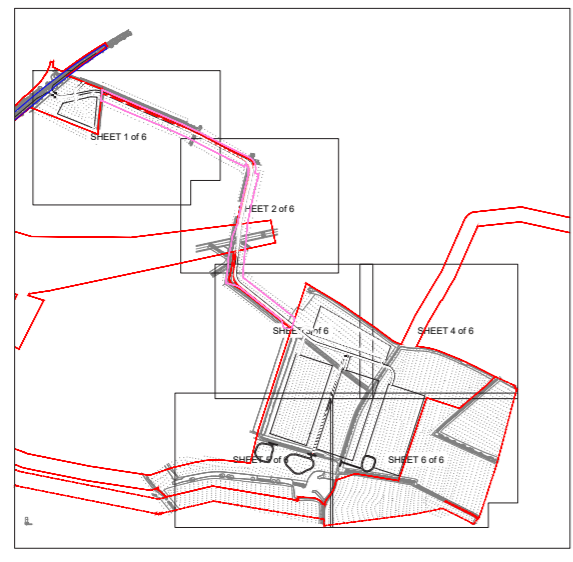
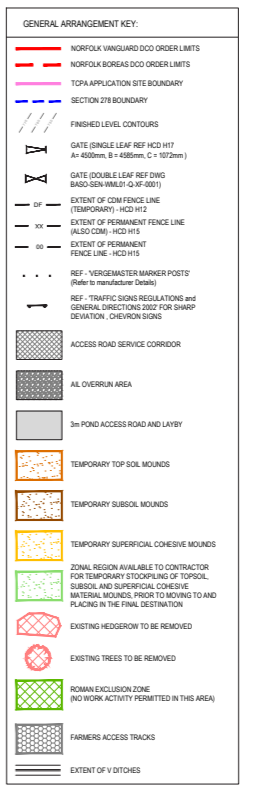
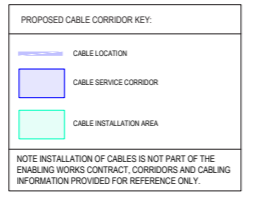
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING RELATED DRAWINGS:

DRAWING TITLE	DOCUMENT REFERENCE	WML REFERENCE
Enabling Works - Site Location Plan	BASO-SEN-WML01-Q-ND-0009	10348EWLP 01
Enabling Works - Proposed Cross Sections Sheet 1	BASO-SEN-WML01-Q-ND-0001	10348EWCS 01
Enabling Works - Proposed Cross Sections Sheet 2	BASO-SEN-WML01-Q-ND-0002	10348EWCS 02
Enabling Works - Proposed Cross Sections Sheet 3	BASO-SEN-WML01-Q-ND-0003	10348EWCS 03
Enabling Works - Proposed Cross Sections Sheet 4	BASO-SEN-WML01-Q-ND-0004	10348EWCS 04
Enabling Works - Proposed Details Sheet 1	BASO-SEN-WML01-Q-ND-0001	10348EWDE 01
Enabling Works - Proposed Details Sheet 2	BASO-SEN-WML01-Q-ND-0002	10348EWDE 02
Enabling Works - GA of Proposed Site Sheet 1	BASO-SEN-WML01-Q-ND-0001	10348EWGA 01
Enabling Works - GA of Proposed Site Sheet 2	BASO-SEN-WML01-Q-ND-0002	10348EWGA 02
Enabling Works - GA of Proposed Site Sheet 3	BASO-SEN-WML01-Q-ND-0003	10348EWGA 03
Enabling Works - GA of Proposed Site Sheet 4	BASO-SEN-WML01-Q-ND-0004	10348EWGA 04
Enabling Works - GA of Proposed Site Sheet 5	BASO-SEN-WML01-Q-ND-0005	10348EWGA 05
Enabling Works - GA of Proposed Site Sheet 6	BASO-SEN-WML01-Q-ND-0006	10348EWGA 06
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 1	BASO-SEN-WML01-Q-ND-0001	10348EWAS 01
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 2	BASO-SEN-WML01-Q-ND-0002	10348EWAS 02
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 3	BASO-SEN-WML01-Q-ND-0003	10348EWAS 03
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 4	BASO-SEN-WML01-Q-ND-0004	10348EWAS 04
Enabling Works - Proposed Access Road Longitudinal Sections Sheet 5	BASO-SEN-WML01-Q-ND-0005	10348EWAS 05
Enabling Works - GA and details of Existing Known Services Sheet 1	BASO-SEN-WML01-Q-ND-0001	10348EWS 01
Enabling Works - GA and details of Existing Known Services Sheet 2	BASO-SEN-WML01-Q-ND-0002	10348EWS 02

NOTE REGARDING VANGUARD EAST AND VANGUARD WEST SUBSTATION PLATFORM EARTHWORKS
 SUBJECT TO CLASSIFICATION AS BEING SUITABLE, SUBSOIL AND SUPERFICIAL COHESIVE MATERIAL EXCAVATED FROM VANGUARD EAST EARTHWORKS CUT AREAS IS TO BE SUBSEQUENTLY USED WITHIN VANGUARD WEST EARTHWORKS TO FILL AREAS. THESE MATERIALS WILL REQUIRE TEMPORARILY STOCKPILING IN SEPARATE SUBSOIL AND SUPERFICIAL MATERIAL STOCKPILES PRIOR TO THE COMMENCEMENT OF THE VANGUARD WEST EARTHWORKS. IT IS ANTICIPATED THAT THE MATERIALS WILL BE STOCKPILED TO THE NORTHERN, EASTERN AND SOUTHERN EDGES OF VANGUARD WEST SUBSTATION FOOTPRINT. HOWEVER EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
 THE FOLLOWING BULKED UP MATERIAL ESTIMATES HAVE BEEN CALCULATED. A BULKING FACTOR OF 1.15 HAS BEEN APPLIED TO THE VANGUARD EAST CUT VOLUMES.
 SUBSOIL - 4625m³
 SUPERFICIAL COHESIVE MATERIAL - 16,592m³

TEMPORARY WORKS
 THE CONTRACTOR MUST APPOINT A TEMPORARY WORKS COORDINATOR WHO WILL BE RESPONSIBLE FOR IDENTIFYING TEMPORARY WORKS REQUIRED TO FACILITATE CONSTRUCTION. THIS MAY INCLUDE ACCESS, PROPPING, CRANE PLATFORMS etc.
 WML CONSULTANTS ARE NOT RESPONSIBLE FOR TEMPORARY WORKS DESIGN EXCEPT BY ADDITIONAL APPOINTMENT. WHERE THE REQUIREMENT FOR TEMPORARY WORKS IS NOTED ON WML DRAWINGS, THESE ARE INDICATIVE ONLY AND REFLECT AN ASSUMED METHOD OF CONSTRUCTION.
 WML DRAWINGS DO NOT HIGHLIGHT ALL AREAS WHERE TEMPORARY WORKS MAY BE REQUIRED AS THIS WILL BE DETERMINED BY THE METHOD AND SEQUENCE OF CONSTRUCTION ADOPTED BY THE CONTRACTOR.
 METHOD STATEMENTS AND TEMPORARY WORKS DESIGNS IMPACT ON THE PRIMARY STRUCTURE AND SHOULD BE FORWARDED TO WML FOR REVIEW PRIOR TO PROGRESSION OF WORKS.

RESIDUAL RISK REGISTER
 REFER TO RESIDUAL DESIGN RISK REGISTER IN ADDITION TO THE HAZARDOUS RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS INDICATED ON THIS DRAWING. NOTE THE FOLLOWING:
 1. UTILITIES PROVIDERS HAVE IDENTIFIED THEIR SERVICES AS BEING PRESENT WITHIN THE WORKS AREA. REFER TO THE DRAWINGS, WHICH SHOW THE APPROXIMATE LOCATION OF THE IDENTIFIED SERVICES AND OVERHEAD APPROXIMATE WORKS WITHIN EXISTING DITCHES MAY REQUIRE LOCAL DEWATERING IN THE TEMPORARY CONDITION. CONTRACTOR TO PLAN WORKS ACCORDINGLY AND DESIGN ASSOCIATED TEMPORARY WORKS.
 2. EXISTING OPEN WATER DRAINAGE DITCHES WITH STEEP BANKS. CONTRACTOR TO ADOPT SAFE METHODS OF WORK TO CONTROL RISKS ASSOCIATED WITH OPERATIVE CONSTRUCTION PLANT FALLING IN TO DITCHES. INSTALLING NEW CULTIVATED PIPES. EXCAVATING WITH DITCHES AND DITCHES BEING MADE UNSTABLE DUE TO STORAGE OF MATERIALS IMMEDIATELY ADJACENT DITCHES.
 3. FORMING NEW OPEN WATER DRAINAGE DITCHES. CONTRACTOR TO ADOPT SAFE METHODS OF WORK TO CONTROL RISKS ASSOCIATED WITH OPERATIVE CONSTRUCTION PLANT FALLING INTO DITCHES. INSTALLING CULTIVATED PIPES AND STORAGE OF MATERIALS IMMEDIATELY ADJACENT DITCHES.
 4. THE CONSTRUCTION DETAILS OF THE EXISTING TRACKS ARE CURRENTLY UNKNOWN. THERE IS A POTENTIAL RISK OF CONTAMINATED MATERIAL BEING PRESENT WITHIN THEIR CONSTRUCTION.
 5. INTERACTION WITH LANDOWNERS PERSONNEL AND MEMBERS OF THE PUBLIC. THE SITE AREA IS NESTED AND THE CONTRACTOR IS LIKELY TO ENCOUNTER WITH BOTH WHILE UNDERTAKING WORK ACTIVITIES.
 6. THIRD PARTY LANDOWNERS AND/OR THEIR AGENTS HAVE RIGHTS TO ACCESS ACROSS THE SITE AND THE CONTRACTOR MAY ENCOUNTER THEM WHILE UNDERTAKING WORK ACTIVITIES. THE CONTRACTOR SHALL MAKE PROVISION TO ENSURE THEIR SAFETY.
 7. CONSTRUCTION SENSITIVE OVERHEAD POWER LINES. THE PROPOSED ACCESS ROAD IS LOCATED UNDER THESE. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF NATIONAL GRID & UKPN REGARDING SAFE WORKING ARRANGEMENTS.



Rev	Date	By	Check	Approved	Reason
010	20.04.2023	Issued for Construction	W Hall	A Leng	N Garside
011	20.04.2023	Issued for Construction	W Hall	A Leng	N Garside
012	22.03.2023	Issued for Review	W Hall	A Leng	N Garside
013	16.12.2022	Issued for Review	W Hall	A Leng	N Garside
014	22.11.2022	Issued for Review	W Hall	A Leng	N Garside
015	13.09.2022	Issued for Review	W Hall	A Leng	N Garside

Author	Checker	Approved	Issue Date	Issue No	Issue Title
W Hall	A Leng	N Garside	20.04.2023	10348EWSA 03	Enabling Works - Proposed Access Road Longitudinal Sections Sheet 3



Bushy Common Junction

Pages 24-31

What are these works?

The works involve the improvement of the existing junction of Bushy Common and the A47, combined with the construction of a new access into the substation site. Under current conditions vehicles turn off the A47 onto single track road. By creating a new bellmouth and wider road, traffic can flow in both directions, increasing visibility and safety for drivers.

What will this involve?

Bushy Common will need to be closed during the works but we will retain access for the residents at all times, either through the works or via the diversion route. Some devegetation will also be required.

When will this happen?

Construction will start in mid-September and we anticipate it taking approximately 9 weeks to complete.

Which drawings are associated with these works?

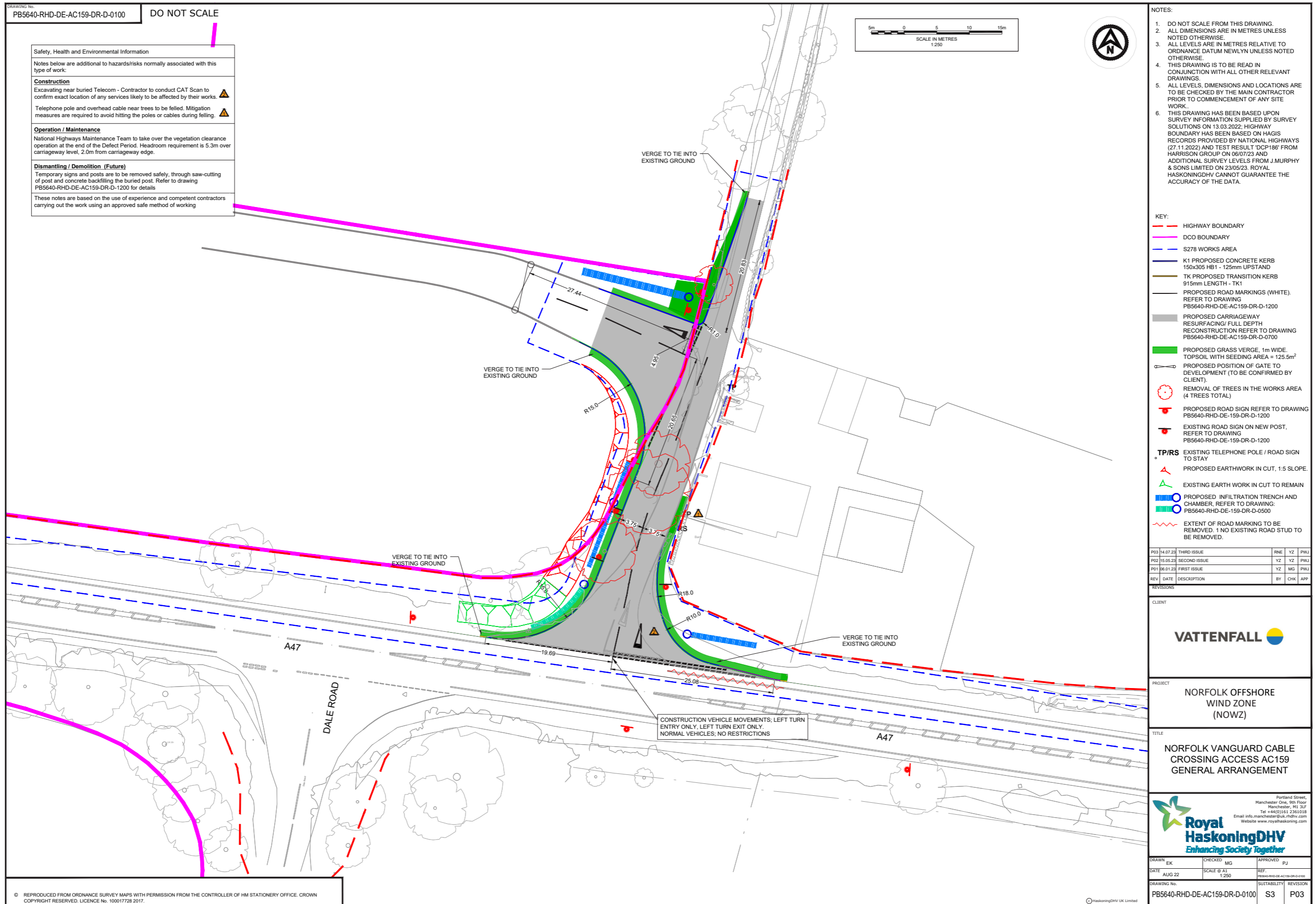
Drawing Numbers

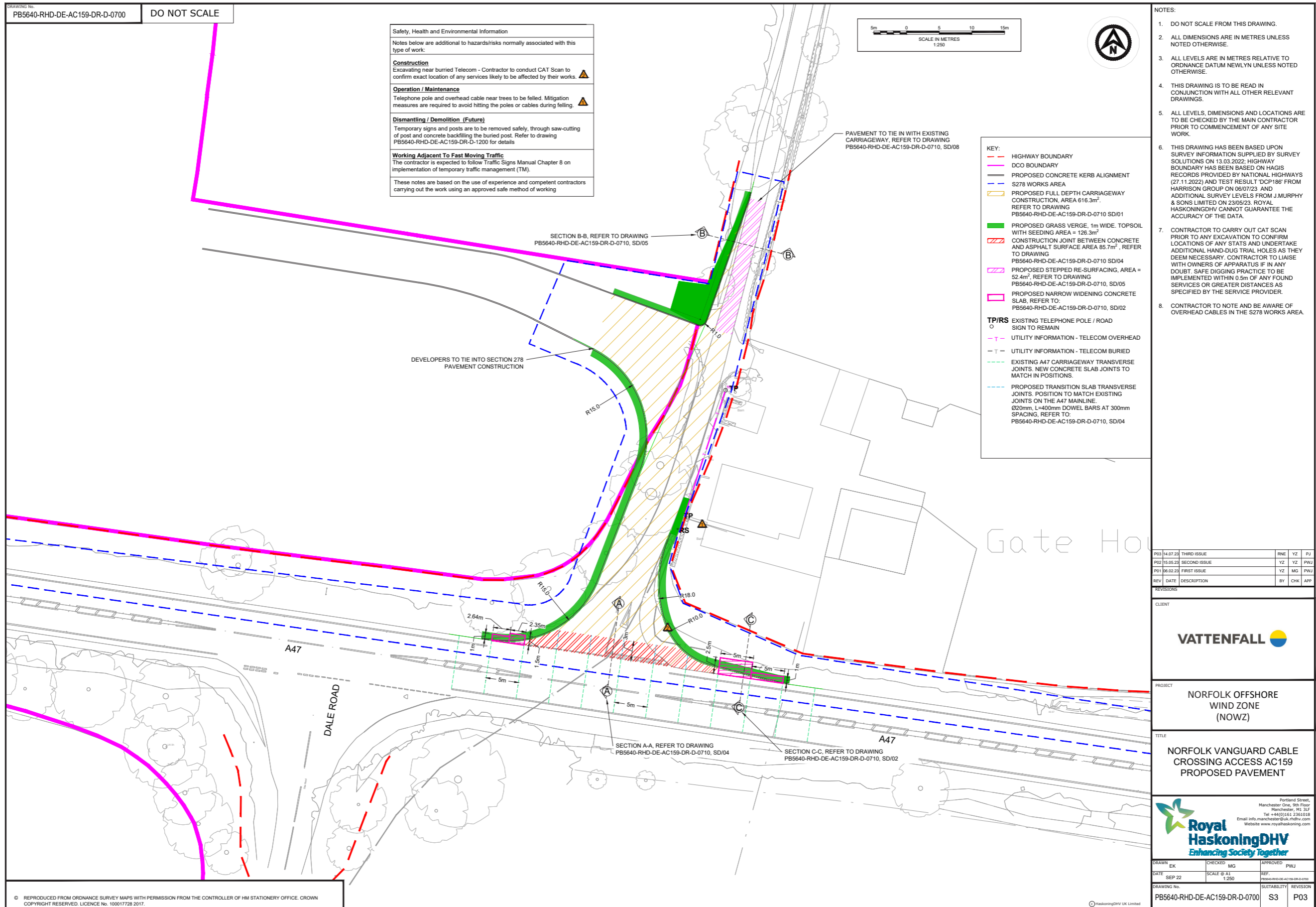
- PB5640-RHD-DE-AC159-DR-D-0100-PO3 pages 24 & 25
- PB5640-RHD-DE-AC159-DR-D-0700-PO3 pages 26 & 27
- PB5640-RHD-DE-AC159-DR-D-0710-PO3 pages 28 & 29
- PB5640-RHD-DE-ZZ-DR-D-0150-PO3 pages 30 & 31

Who should I contact if I have questions about these works?

If you have questions, please contact the Community Liaison Officer for the Norfolk Zone, Will Sealey.

E: william.sealey@vattenfall.com M: 07773 661068





DRAWING NO. PB5640-RHD-DE-AC159-DR-D-0700 DO NOT SCALE

Safety, Health and Environmental Information
 Notes below are additional to hazards/risks normally associated with this type of work:

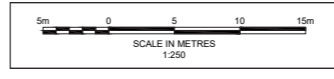
Construction
 Excavating near buried Telecom - Contractor to conduct CAT Scan to confirm exact location of any services likely to be affected by their works.

Operation / Maintenance
 Telephone pole and overhead cable near trees to be felled. Mitigation measures are required to avoid hitting the poles or cables during felling.

Dismantling / Demolition (Future)
 Temporary signs and posts are to be removed safely, through saw-cutting of post and concrete backfilling the buried post. Refer to drawing PB5640-RHD-DE-AC159-DR-D-1200 for details

Working Adjacent To Fast Moving Traffic
 The contractor is expected to follow Traffic Signs Manual Chapter 8 on implementation of temporary traffic management (TM).

These notes are based on the use of experience and competent contractors carrying out the work using an approved safe method of working



- NOTES:**
- DO NOT SCALE FROM THIS DRAWING.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY SITE WORK.
 - THIS DRAWING HAS BEEN BASED UPON SURVEY INFORMATION SUPPLIED BY SURVEY SOLUTIONS ON 13.03.2022; HIGHWAY BOUNDARY HAS BEEN BASED ON HAGIS RECORDS PROVIDED BY NATIONAL HIGHWAYS (27.11.2022) AND TEST RESULT 'DCP188' FROM HARRISON GROUP ON 06/07/23 AND ADDITIONAL SURVEY LEVELS FROM J.MURPHY & SONS LIMITED ON 23/05/23. ROYAL HASKONINGDHV CANNOT GUARANTEE THE ACCURACY OF THE DATA.
 - CONTRACTOR TO CARRY OUT CAT SCAN PRIOR TO ANY EXCAVATION TO CONFIRM LOCATIONS OF ANY STATS AND UNDERTAKE ADDITIONAL HAND-DUG TRIAL HOLES AS THEY DEEM NECESSARY. CONTRACTOR TO LIAISE WITH OWNERS OF APPARATUS IF IN ANY DOUBT. SAFE DIGGING PRACTICE TO BE IMPLEMENTED WITHIN 0.5m OF ANY FOUND SERVICES OR GREATER DISTANCES AS SPECIFIED BY THE SERVICE PROVIDER.
 - CONTRACTOR TO NOTE AND BE AWARE OF OVERHEAD CABLES IN THE S278 WORKS AREA.

- KEY:**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - PROPOSED CONCRETE KERB ALIGNMENT
 - S278 WORKS AREA
 - PROPOSED FULL DEPTH CARRIAGEWAY CONSTRUCTION, AREA 616.3m². REFER TO DRAWING PB5640-RHD-DE-AC159-DR-D-0710 SD/01
 - PROPOSED GRASS VERGE, 1m WIDE, TOPSOIL WITH SEEDING AREA = 126.3m²
 - CONSTRUCTION JOINT BETWEEN CONCRETE AND ASPHALT SURFACE AREA 85.7m², REFER TO DRAWING PB5640-RHD-DE-AC159-DR-D-0710 SD/04
 - PROPOSED STEPPED RE-SURFACING, AREA = 52.4m², REFER TO DRAWING PB5640-RHD-DE-AC159-DR-D-0710, SD/05
 - PROPOSED NARROW WIDENING CONCRETE SLAB, REFER TO: PB5640-RHD-DE-AC159-DR-D-0710, SD/02
- TP/RS**
- EXISTING TELEPHONE POLE / ROAD SIGN TO REMAIN
 - UTILITY INFORMATION - TELECOM OVERHEAD
 - UTILITY INFORMATION - TELECOM BURIED
 - EXISTING A47 CARRIAGEWAY TRANSVERSE JOINTS. NEW CONCRETE SLAB JOINTS TO MATCH IN POSITIONS.
 - PROPOSED TRANSITION SLAB TRANSVERSE JOINTS. POSITION TO MATCH EXISTING JOINTS ON THE A47 MAINLINE. Ø20mm, L=400mm DOWEL BARS AT 300mm SPACING, REFER TO: PB5640-RHD-DE-AC159-DR-D-0710, SD/04

REV	DATE	DESCRIPTION	BY	CHK	APP
P03	14.07.22	THIRD ISSUE	RNE	YZ	PJ
P02	15.05.22	SECOND ISSUE	YZ	MG	PWJ
P01	06.02.22	FIRST ISSUE	YZ	MG	PWJ

REVISIONS

CLIENT



PROJECT

NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE

NORFOLK VANGUARD CABLE CROSSING ACCESS AC159 PROPOSED PAVEMENT



DRAWN	CHECKED	APPROVED
EK	MG	PWJ
DATE	SCALE	REF.
SEP 22	@ A1 1:250	PB5640-RHD-DE-AC159-DR-D-0700
DRAWING NO.	SUITABILITY	REVISION
PB5640-RHD-DE-AC159-DR-D-0700	S3	P03

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Royal HaskoningDHV UK Limited

DRAWING NO. PB5640-RHD-DE-AC159-DR-D-0710 DO NOT SCALE

TABLE 7.01 - SUB-BASE LAYER REQUIREMENT FOR CBR$\le 5\%$

CBR VALUE	SUB-BASE REQUIREMENT [mm]
<math>< 2.5\%</math>	Refer to the designer for guidance
2.5%	250 TYPE 1 + 430 CAPPING
3%	230 TYPE 1 + 380 CAPPING
4%	220 TYPE 1 + 320 CAPPING
$\le 5\%$	200 TYPE 1 + 250 CAPPING

*NOTE: CONTRACTOR TO VERIFY IN-SITU CBR VALUE AND ADJUST SUB-BASE CONSTRUCTION AS PER TABLE ABOVE

PAVEMENT OPTION 1
FLEXIBLE PAVEMENT FULL-DEPTH CARRIAGEWAY CONSTRUCTION
DETAIL - SD/01

NEW CARRIAGEWAY WIDENING WIDTH 0 - 1m

PROPOSED KERB K2 125x255mm HB2

ST1 CONCRETE HAUNCHING FOR KERB INSTALLATION

GRASS VERGE

CONSTRUCT 305 x 70mm CONCRETE FORMWORK TO CREATE A CHANNEL FOR KERB CONSTRUCTION

EXISTING KERB REMOVED

SC1, 40mm SMA 10 surf 40/60 WARM-MIX TO MCHW Cl.908, PSV68+

CONSTRUCTION JOINT

EXISTING CARRIAGEWAY

EXISTING A47 BITUMEN SURFACING 25mm

VERTICAL SAW CUT

BN1, 60mm AC20 dense bin 40/60 des WARM-MIX TO MCHW Cl.908

EXISTING A47 CONCRETE BASE 195mm

020mm TIE BAR AT LONGITUDINAL JOINT. SEE NOTE 3

BA1, 200mm C32/40 URC CONCRETE

MIN 150 FROM EDGE

SM1, PROPOSED IMPERMEABLE SEPARATION MEMBRANE TO MCHW CL.609

SB1, 270mm TYPE 1 MATERIAL ASSUMING CBR$\ge 5\%$, FOR OTHER CBR VALUES, REFER TO TABLE IN SD/01, TABLE 7.01

25mm MORTAR BEDDING

200

270

NARROW CARRIAGEWAY WIDENING DETAIL (0-1.0m)
DETAIL - SD/02

125 x 305 PRECAST CONCRETE KERB TYPE HB1 (HALF BATTERED KERB)

VERGE TO GRADE AWAY FROM THE KERB

ST1 CONCRETE FOUNDATION AND BACKING

RE-USE EXISTING TYPE 1 MATERIAL

100 MIN

375

K1 KERB DETAIL - TYPE HB1
DETAIL - SD/03

125 x 255 PRECAST CONCRETE KERB TYPE HB2 (HALF BATTERED KERB)

VERGE TO GRADE AWAY FROM THE KERB

ST1 CONCRETE FOUNDATION AND BACKING

RE-USE EXISTING TYPE 1 MATERIAL

100 MIN

375

K1 KERB DETAIL - TYPE HB2
DETAIL - SD/07

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
 - KERBS SHALL BE LAYED WITH DRY JOINTS AND CLOSELY BUTTED TO ADJACENT KERBS.
 - FOR RADI OF 15 METRE OR LESS, KERBS OF THE APPROPRIATE RADIUS SHALL BE USED.
 - KERB BEDDING TO HAVE A MINIMUM THICKNESS SHOWN ON STANDARD DETAIL OR FOUNDED ON TOP SURFACE OF SUB-BASE LAYER WHICH EVER IS THE GREATER.
 - CONCRETE FOUNDATION AND BACKING TO BE TO BS EN 1340 ST1 TO SHW CLAUSE 2602
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS (MCHW).
 - ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY SITE WORK.
 - MINIMUM CBR OF 5% IS ASSUMED.
 - IT IS ASSUMED THAT INFILTRATION TEST RESULTS PROVIDED ON 14/09/22 FOR AC178 ALSO APPLIES AT AC159. ROYAL HASKONINGDHV CANNOT GUARANTEE THE ACCURACY OF THE DATA.
 - THE THICKNESS AND MAKE-UP OF THE EXISTING SIDE ROAD'S CONCRETE BASE IS TO BE VERIFIED ON SITE.

BUSHY COMMON ROAD NORTH OF AC159 WIDENED

EXISTING BUSHY COMMON ROAD NORTH OF AC159

CARRIAGEWAY RESURFACING TO EDGE OF EXISTING ROAD

2500

300

PLANE OFF 40mm OF THE EXISTING ROAD FOR RESURFACING

SAW CUT 300mm WIDTH AND BREAK OUT TO DEPTH TO MATCH PROPOSED BINDER COURSE THICKNESS AND REPLACE

SC1, 40mm SMA 10 surf 40/60 WARM-MIX TO MCHW Cl.908, PSV68+

BN1, 60mm AC20 dense bin 40/60 des WARM-MIX TO MCHW Cl.908

BA2, 100mm AC32 dense base 40/60 des WARM-MIX TO MCHW Cl.908

SB1, 270mm TYPE 1 MATERIAL ASSUMING CBR$\ge 5\%$, FOR OTHER CBR VALUES, REFER TO TABLE IN SD/01, TABLE 7.01

BUSHY COMMON ROAD WIDENING NORTH OF AC159
DETAIL SD/05

A47 EASTBOUND CARRIAGEWAY

BUSHY COMMON ROAD CARRIAGEWAY

NOTE 1

NOTE 1

NOTE 1

EXISTING A47 BITUMEN SURFACING 25mm

EXISTING A47 CONCRETE BASE 195mm

020mm TIE BAR AT LONGITUDINAL JOINT. SEE NOTE 3

BOND COAT

SC1, 40mm SMA 10 surf 40/60 WARM-MIX TO MCHW Cl.908, PSV68+

BN1, 60mm AC20 dense bin 40/60 des WARM-MIX TO MCHW Cl.908

BA2, 100mm AC32 dense base 40/60 des WARM-MIX TO MCHW Cl.908

BA1, 200mm C32/40 URC CONCRETE TRANSITION SLAB, HCD C7/1

SB1, 270mm TYPE 1 MATERIAL ASSUMING CBR$\ge 5\%$, FOR OTHER CBR VALUES, REFER TO TABLE IN SD/01, TABLE 7.01

020mm DOWEL BAR AT TRANSVERSE JOINTS. 9No. SEE NOTE 4

SM1, PROPOSED IMPERMEABLE SEPARATION MEMBRANE TO MCHW CL.609

LONGITUDINAL JOINT BETWEEN BUSHY COMMON ROAD AND A47 EASTBOUND LANE
DETAIL SD/04

- NOTES**
- BITUMINOUS CONSTRUCTION TO BE SAW-CUT AND SEALED IN ACCORDANCE WITH MCHW CL.713.
 - CARRIAGEWAY CONSTRUCTION JOINT TO MIDDLE OF EASTBOUND LANE AS PER MCHW CLAUSE 903.31.
 - 020mm TIE BAR, L=1000mm, AT 300mm SPACING TO MCHW HCD C7/1. POLYMERIC CORROSION RESISTANT COATING BONDED ONTO MIDDLE 150mm LENGTH.
 - 020mm DOWEL BARS COVERED BY POLYMERIC CORROSION RESISTANT COATING. L = 400mm, AT 300mm SPACING. REQUIREMENTS TO MCHW HCD C3.

REV	DATE	DESCRIPTION	BY	CHK	APP
P03	14.07.22	- TO REFER TO NH DOCUMENT	Y2	PWJ	PWJ
P02	15.05.22	2ND ISSUE	Y2	PWJ	PWJ
P01	07.02.22	FIRST ISSUE	Y2	PWJ	PWJ

CLIENT

VATTENFALL

PROJECT

NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE

NORFOLK VANGUARD CABLE CROSSING ACCESS AC159 CONSTRUCTION DETAILS

PROPOSED INFILTRATION TRENCH WIDTH AND DEPTH VARIES. MCHW HCD F2 TYPE M TRENCH
DETAIL - SD/11

WIDTH - REFER LABELS IN DRAWING 0500

MIN 75mm TOP SOIL

PERMEABLE SEPARATION MEMBRANE, TO MCHW CL.609

GRANULAR MATERIAL, OPEN GRADED, POROSITY 0.3; TO MCHW Cl.503.3(i)

PERFORATED PIPE, Ø150 TO MCHW Cl.501, TABLE 5/1; OR, Ø160 PERFORATED LAND DRAIN FOR TRENCH TR4

TOTAL DEPTH - REFER TO DRAWING 0500

200

Ø150

LEFT HAND

RIGHT HAND

TK TRANSITION KERBS - SD/06

MCHW HCD DETAIL REFERENCES

PRE-CAST GULLY AND SURROUND	MCHW DETAIL F13; D400 GRADE FOR GULLY GRATING;
DRAINAGE MANHOLE	MCHW DETAIL F12, TYPE 8 CHAMBER, 600 CATCHPIT, D400 GRADE COVER
INFILTRATION TRENCH	MCHW DETAIL F2, TYPE M TRENCH
RIGID TO FLEXIBLE CONSTRUCTION	MCHW DETAIL C7/1, TYPE 'SURFACE SLAB WITH BITUMINOUS OVERLAY'



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Project Updates & Contact Info

If you would like more information about the Norfolk Zone projects or about Vattenfall, please use the buttons below to visit relevant pages of the website.

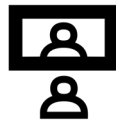
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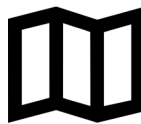
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