Sea Link

Design Dravings

Version A

October 2023

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

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HVAC Cross Sections for Sea Link plus ducts for up to two
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The Great Grid Upgrade Sea Link

01. Onshore Design Drawings

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

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01-01. Friston 400kV Substation

Drawing Category Name	Plan Title	Scheme	C
Friston 400kV Substation	Typical Sea Link works should Friston 400kV GIS substation be developed by others	Suffolk Onshore Scheme	S
	Typical Friston 400kV GIS substation in scenario where not construction by third party	Suffolk Onshore Scheme	S
	Typical Friston 400kV GIS substation - elevation drawing	Suffolk Onshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_S/TDD/SS/0001

S42_S/TDD/SS/0003

S42_S/TDD/SS/0019



⁻ or s 1.	statutory These pla	/ consultation p ans show the Draft	ourpo Order	Ses (Limits	only. and
	Draft Cat	le Alignment and p	otentia	al pylo	n hility
	National	Grid will be applyin	g for C	order L	imits and
	Limits of Consent	Deviation within its Order, within which	Devel any fi	opmer nal ali	nt gnment
	(including the Draft	pylon locations) w Cable Alignment a	ould li nd pylo	e. The	refore ations
	should be	e treated as indicat	ive onl	y. Furt	her
	with our o	consultation plans'	docum	ient.	liciacing
2.	For furthe	er information on co	onstruc	tion pl	ease
	refer to th	e construction sec	tion of rt Voli	the Pr	eliminary Part 1
	Chapter 4	1.	,		,
3.	Abbrevia	tions			
	AIS - CVT -	Air Insulated S Capacitive Volt	witchg age Tr	ear ansfoi	mer
	GIS - ISS -	Gas Insulated Security	Switch	gear olution	s
	CNI -	Critical Nationa	l Infrasti	structu	re
4.	Elevation	sections relate to	S42_S	/TDD/	SS/0019.
Leg	jend				
		EXISTING EC	UIPME	ENT	
		NEW EQUIPM	/ENT		
	· · · <u> </u>	LIMIT OF LAN	1D		
	— X ——	FENCE			
	DC	ESCRIPTION			
0	1 400k∖	' AIS CVT			
0	2 400k∖	AIS EARTH SWITC	ЭН		
0	3 400k\	AIS SURGE ARRE	STOR		
0	4 400k∖	GIS / AIR BUSHIN	G		
0	95 400k∖	' GIS HALL			
0	6 400k∖	' ANNEX BUILDING			
0					
0			STOP		
1					
1				-	
1	2 WOR	KSHOP			
1	3 EMEF		ENERA	TOR	
1	4 DIESE	EL TANK			
1	5 PARK	ING			
1	6 DISTE		DOM (C	OFTO E	EA2)
17 DISTRIBUTED RELAY ROOM (OFTO EA1N)					
A	07/09/2023	FINAL	SC	JW	KJ
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<u>Inte</u>		ATIONAL GRID EI			
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40	0KV GIS	SUBSTATION BE	DEVE	LOPE	D BY
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Applicat	tion Number				
EN020026 National Grid Drawing Reference					
		S42_S/TDD/SS/000	1		
scale	<u>s</u>	neer Size Sheet		Issue	



For statutory consultation purposes only.

- 1. These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
- 2. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.

3. Abbreviations

AIS -	Air Insulated Switchgear
CVT -	Capacitive Voltage Transformer
GIS -	Gas Insulated Switchgear
ISS -	Integrated Security Solutions
CNI -	Critical National Infrastructure
LVAC -	Low Voltage Alternating Current

4. Elevation sections relate to S42_S/TDD/SS/0019.

X	FENCE
	NEW INFRASTRUCTURE
	EQUIPMENT

IDDESCRIPTION01400kV AIS CVT02400kV AIS EARTH SWITCH03400kV AIS SURGE ARRESTOR04400kV GIS / AIR BUSHING05400kV GIS HALL06400kV ANNEX BUILDING07HARDSTANDING AREA08AMENITIES BLOCK09400kV GIS / CABLE INTERFACE10STORAGE11STORAGE12WORKSHOP13EMERGENCY DIESEL GENERATOR14DIESEL TANK15PARKING16DISTRIBUTED RELAY ROOM (OFTO EA2)17DISTRIBUTED RELAY ROOM (OFTO EA1N)		
 400kV AIS CVT 400kV AIS EARTH SWITCH 400kV AIS SURGE ARRESTOR 400kV GIS / AIR BUSHING 400kV GIS / AIR BUSHING 400kV GIS HALL 400kV ANNEX BUILDING 400kV ANNEX BUILDING HARDSTANDING AREA 400kV GIS SURGE ARRESTOR 400kV GIS / CABLE INTERFACE 400kV GIS / CABLE INTERFACE STORAGE STORAGE EMERGENCY DIESEL GENERATOR DIESEL TANK DIESEL TANK DISTRIBUTED RELAY ROOM (OFTO EA2) DISTRIBUTED RELAY ROOM (OFTO EA1N) 	ID	DESCRIPTION
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 400kV ANNEX BUILDING HARDSTANDING AREA AMENITIES BLOCK 400kV GIS SURGE ARRESTOR 400kV GIS / CABLE INTERFACE STORAGE STORAGE WORKSHOP EMERGENCY DIESEL GENERATOR DIESEL TANK PARKING DISTRIBUTED RELAY ROOM (OFTO EA2) DISTRIBUTED RELAY ROOM (OFTO EA1N) 	05	400kV GIS HALL
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 400kV GIS SURGE ARRESTOR 400kV GIS / CABLE INTERFACE STORAGE STORAGE WORKSHOP EMERGENCY DIESEL GENERATOR DIESEL TANK PARKING DISTRIBUTED RELAY ROOM (OFTO EA1N) 	08	AMENITIES BLOCK
 400kV GIS / CABLE INTERFACE STORAGE WORKSHOP EMERGENCY DIESEL GENERATOR DIESEL TANK PARKING DISTRIBUTED RELAY ROOM (OFTO EA2) DISTRIBUTED RELAY ROOM (OFTO EA1N) 	09	400kV GIS SURGE ARRESTOR
 STORAGE WORKSHOP EMERGENCY DIESEL GENERATOR DIESEL TANK PARKING DISTRIBUTED RELAY ROOM (OFTO EA2) DISTRIBUTED RELAY ROOM (OFTO EA1N) 	10	400kV GIS / CABLE INTERFACE
 WORKSHOP EMERGENCY DIESEL GENERATOR DIESEL TANK PARKING DISTRIBUTED RELAY ROOM (OFTO EA2) DISTRIBUTED RELAY ROOM (OFTO EA1N) 	11	STORAGE
 13 EMERGENCY DIESEL GENERATOR 14 DIESEL TANK 15 PARKING 16 DISTRIBUTED RELAY ROOM (OFTO EA2) 17 DISTRIBUTED RELAY ROOM (OFTO EA1N) 	12	WORKSHOP
 14 DIESEL TANK 15 PARKING 16 DISTRIBUTED RELAY ROOM (OFTO EA2) 17 DISTRIBUTED RELAY ROOM (OFTO EA1N) 	13	EMERGENCY DIESEL GENERATOR
 15 PARKING 16 DISTRIBUTED RELAY ROOM (OFTO EA2) 17 DISTRIBUTED RELAY ROOM (OFTO EA1N) 	14	DIESEL TANK
16 DISTRIBUTED RELAY ROOM (OFTO EA2)17 DISTRIBUTED RELAY ROOM (OFTO EA1N)	15	PARKING
17 DISTRIBUTED RELAY ROOM (OFTO EA1N)	16	DISTRIBUTED RELAY ROOM (OFTO EA2)
	17	DISTRIBUTED RELAY ROOM (OFTO EA1N)

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL FRISTON 400kV GIS SUBSTATION IN SCENARIO WHERE NO CONSTRUCTION BY THIRD PARTY

SHEET 1 OF 1

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SHEET 1 OF 1 A









THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL FRISTON 400kV GIS SUBSTATION - ELEVATION DRAWING

SHEET 1 of 1





Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
	400kV
TO EARTH	2800
TO PHASE	3600
I DISTANCE NATIONAL GRID SAFETY RULES	3100
N CLEARANCE FOR SAFETY (VERTICAL)	5500
N CLEARANCE FOR SAFETY (HORIZONTAL)	4600
ATION HEIGHT	2400

1. THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DEVELOPMENT CONSENT ORDER, WITHIN WHICH ANY FINAL ALIGNMENT (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.

FOR FURTHER INFORMATION ON CONSTRUCTION PLEASE REFER TO THE CONSTRUCTION SECTION OF THE PRELIMINARY ENVIRONMENTAL IMPACT REPORT, VOLUME 1, PART 1, CHAPTER 4.

ABBREVIATION

- PLC POWER LINE CARRIER AIS - AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR
- PIR PRE INSERTION RESISTOR LCC - LOCAL CONTROL CUBICLE
- PH PHASE
- GIB GAS INSULATED BUSDUCT

Legend

New Equipment

Equipment Schedule			
Item	Description		
01	400kV AIS SURGE ARRESTOR		
02	400kV AIS EARTH SWITCH		
03	400kV AIS CVT		
04	400kV GIS / AIR BUSHING		
05	AMENITIES BUILDING		
10	WORKSHOP		
13	400 kV HARMONIC FILTER - CURRENT TRANSFORMER		
14	400 kV HARMONIC FILTER - CAPACITOR		

SITE FINISH LEVEL (SFL) +5.030 m ▼ FOR CONTINUATION OF THE ELEVATION SECTION SEE ABOVE

A	08/09/2023	FINAL	MS	JW	KJ
Issue	Date	Remarks	Drawn	Checked	Approved
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER					
DESIGN DRAWINGS FOR CONSULTATION					
TYPICAL FRISTON 400kV GIS SUBSTATION - ELEVATION DRAWING					
		SHEET 1 of 1			

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Application Number						
EN020026						
National Grid Drawi	National Grid Drawing Reference					
	S42_S/TDD/SS/0019					
<u>Scale</u>	Sheet Size	Sheet	Issue			
1 : 200	SHEET 1 of 1	А				

01-02. Saxmundham Converter Station

Drawing Category Name	Plan Title	Scheme	C
Saxmundham Converter Station	Typical Saxmundham converter station layout plan (GIS)	Suffolk Onshore Scheme	S
	Typical Saxmundham converter station - elevation	Suffolk Onshore Scheme	S
	drawing		S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_S/TDD/SS/0015

S42_S/TDD/SS/0020_SH1 S42_S/TDD/SS/0020_SH2





THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL SAXMUNDHAM CONVERTER STATION LAYOUT PLAN (GIS) SHEET 1 of 1

			SAFETY
NOMINAL	PHASE	PHASE	DISTANCE
SYSTEM	то	ТО	(FROM
VOLTAGE	EARTH	PHASE	NATIONAL GRI
			SAFETY RULES
kV	М	М	М
400	2.8	3.6	3.1

DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds 5.5	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh M (SEE POINT ii FROM NOTE 10) 4.6	INSULATION HEIGHT IN 2.4	For s 1. 2. 3. 4.	statutor These pla Cable Ali the need applying its Develor alignmen Therefore locations informatio our consu For furthe the const Environm Chapter 4 Abbrevia PIR - CAP - REA - PI - CVT - ES - SA - PRR - LCC - Elevation & S42_S	y consulta ans show the E gnment and po for future flexit for Order Limit opment Consent (including pyle the Draft Cab should be treat on is provided i ultation plans' of er information of ruction sections ental Impact R Pre-Insertion Capacitive Earth Swite Surge Arree Portable R Local Cont sections relate TDD/SS/0020 PERIMETER F NTERNAL FE BUILDINGS EXTERNAL EC CAR PARK	tion pu Draft Orde beneficial py bility, Nati s and Lim nt Order, ' on locatio le Alignm ted as ind on constru- on constru- on constru- seport, Vo on Resista ansformer Voltage T elay Roor rol Cubicl e to S42_ SH2.	ITPOS er Limi lon loc ional G within ons) we dicative idicitative idicitative idicitative idicat	Ses (ts and Devia which ould I e only intera pleas ary 1, Pal O/SS/0 EAS	Doly. d Draft is. Due to ill be tion within any final ie. on /. Further acting with e refer to r D020_SH1
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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL SAXMUNDHAM CONVERTER STATION -ELEVATION DRAWING SHEET 1 OF 2

SUBS	TATION MINIMUM ELECTRICAL CLEAR	NCES
REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		400kV
P-E	PHASE TO EARTH	2800
P-P	PHASE TO PHASE	3600
SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3100
Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500
Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600
lh	INSULATION HEIGHT	2400

Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

1. THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DEVELOPMENT CONSENT ORDER, WITHIN WHICH ANY FINAL ALIGNMENT (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.

2 FOR FURTHER INFORMATION ON CONSTRUCTION PLEASE REFER TO THE CONSTRUCTION SECTION OF THE PRELIMINARY ENVIRONMENTAL IMPACT REPORT, VOLUME 1, PART 1, CHAPTER 4.

3. ABBREVIATION

- PLC POWER LINE CARRIER AIS - AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE
- PH PHASE GIB - GAS INSULATED BUSDUCT

Legend

New Equipment

Equipment Schedule

Des	scription		
/ AIS CVT	FENEIRAI		
AIS EARTH SV	WITCH		
/ AIS SURGE AI	RRESTOR		
/ POST INSULA			
CURRENT IR		=R	
AIS FOST INS	NITCH		
AIS SURGE A	RRESTOR		
AIS CURREN	T TRANSFO	RMER	
V GIS			
V 1PH TRANSFO		-	
GIS / CABLE I			
	L GENERA	TOR	
EL TANK			
V GIS / AIR BUS	HING		
HARMONIC F	ILTER - RE	SISTO	R
	ILTER - RE		۲ ۵٦
	REACTOR		OR
V PLC FILTER -)R	
MONIC FILTER	- SURGE A	RREST	OR
RNAL FIN FAN	COOLER		
DING FOR PUM	SKID CO	OLING	SYSTEM
FOR REACTOR	& VALVE F	IALL BI	JILDING
OR DC HALL B	UILDING		
ABLE RELAY R	OOM		
NG SHUTTER I			
POST INSULAT	OR		
FINAL	MS	JW	KJ
Remarks	Drawn	Checked	
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MISSION PLC	ID ELECTI	RICITY) ORDI	Approved
DRAWINGS FC	ID ELECTI (SEA LINK DR CONSU	RICITY) ORDI ILTATI	Approved ER ON
DRAWINGS FC	ID ELECTI (SEA LINK DR CONSU CONVERTE	RICITY) ORDI ILTATI ER STA	Approved ER ON ATION
ATIONAL GR MISSION PLC DRAWINGS FC XMUNDHAM (-ELEVATION I	ID ELECTI (SEA LINK DR CONSU CONVERTE DRAWING	RICITY) ORDI ILTATI ER ST/	Approved ER ON ATION
MATIONAL GR MISSION PLC DRAWINGS FC AXMUNDHAM (-ELEVATION I SHEET 1	ID ELECTI (SEA LINK DR CONSU CONVERTE DRAWING OF 2	RICITY) ORDI ILTATI ER STA	Approved ER ON ATION
DRAWINGS FC AXMUNDHAM (-ELEVATION I SHEET 1	ID ELECTI (SEA LINK DR CONSU CONVERTE DRAWING OF 2	RICITY) ORDI ILTATI ER STA	Approved ER ON ATION
DRAWINGS FC AXMUNDHAM C -ELEVATION I SHEET 1	ID ELECT (SEA LINK DR CONSU CONVERTE DRAWING OF 2	RICITY) ORDI ILTATI ER STA	Approved ER ON ATION
DRAWINGS FC AXMUNDHAM C -ELEVATION I SHEET 1	ID ELECTI (SEA LINK DR CONSU CONVERTE DRAWING OF 2	RICITY) ORDI ILTATI ER STA	Approved ER ON ATION
ATTONAL GR MISSION PLC DRAWINGS FC AXMUNDHAM (-ELEVATION I SHEET 1 Intional EN0200 Reference S42_S/TDD/	ID ELECTI (SEA LINK DR CONSU CONVERTE DRAWING OF 2 Igric	RICITY) ORDI ILTATI ER STA	Approved ER ON ATION
	/ AIS SURGE AI / POST INSULA / CURRENT TR / AIS POST INS / AIS POST INS / AIS SURGE A / AIS CURRENT / GIS / 1PH TRANSFO / GIS / CABLE I / GIS / CABLE I / GIS / CABLE I / GIS / AIR BUS / HARMONIC F / HARMONIC F / HARMONIC F / HARMONIC F / PLC FILTER - / PLC FILTER - / PLC FILTER - / PLC FILTER - / NAL FIN FAN / DING FOR PUMI FOR REACTOR FOR DC HALL B / ABLE RELAY R / PIR / LCC ING SHUTTER I POST INSULAT	/ AIS SURGE ARRESTOR / POST INSULATOR / CURRENT TRANSFORMI / AIS POST INSULATOR / AIS EARTH SWITCH / AIS SURGE ARRESTOR / AIS CURRENT TRANSFO / GIS / CABLE INTERFACE / GIS / AIR BUSHING / HARMONIC FILTER - RE / HARMONIC FILTER - RE / HARMONIC FILTER - RE / HARMONIC FILTER - CA / PLC FILTER - REACTOR / PLC FILTER - CAPACITO / ONIC FILTER - SURGE AI RNAL FIN FAN COOLER DING FOR PUMP SKID COO FOR REACTOR & VALVE H FOR DC HALL BUILDING / ABLE RELAY ROOM / PIR / LCC ING SHUTTER DOOR POST INSULATOR // DIS / DIS / AIR BUSHING // PIR // LCC // ING SHUTTER DOOR // PIR // LCC	/ AIS SURGE ARRESTOR / POST INSULATOR / CURRENT TRANSFORMER / AIS POST INSULATOR / AIS CURRENT TRANSFORMER / GIS / IPH TRANSFORMER / GIS / CABLE INTERFACE / GIS JCABLE INTERFACE / GIS JCABLE INTERFACE / GIS JAIR BUSHING / HARMONIC FILTER - RESISTO / HARMONIC FILTER - RESISTO / HARMONIC FILTER - REACTOR / PLC FILTER - CAPACITOR / ONIC FILTER - CAPACITOR / ONIC FILTER - SURGE ARREST RNAL FIN FAN COOLER / ING FOR PUMP SKID COOLING -OR REACTOR & VALVE HALL BI -OR DC HALL BUILDING ABLE RELAY ROOM / PIR / LCC ING SHUTTER DOOR POST INSULATOR // INSULATOR // INSULATOR // INSULATOR





THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC(SEA LINK) DESIGN DRAWINGS FOR CONSULTATION TYPICAL SAXMUNDHAM CONVERTER STATION -ELEVATION DRAWING SHEET 2 OF 2







ELEVATION 6 1 : 200

Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE 400kV 2800 3600 3100 5500
	400kV
TO EARTH	2800
TO PHASE	3600
DISTANCE NATIONAL GRID SAFETY RULES	3100
I CLEARANCE FOR SAFETY (VERTICAL)	5500
I CLEARANCE FOR SAFETY (HORIZONTAL)	4600
TION HEIGHT	2400

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ABBREVIATION

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- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR
- PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE
- PH PHASE
- GIB GAS INSULATED BUSDUCT

Legend

2

3

New Equipment

	Equipment Schedule				
Item	Description				
01	AIR BUSHING WALL PENETRATION				
02	550KV AIS CVT				
03	550KV AIS EARTH SWITCH				
04	550KV AIS SURGE ARRESTOR				
05	550KV POST INSULATOR				
06	550KV CURRENT TRANSFORMER				
07	400 kV AIS POST INSULATOR				
08	400 kV AIS EARTH SWITCH				
09	400 kV AIS SURGE ARRESTOR				
10	400 kV AIS CURRENT TRANSFORMER				
11	400 kV GIS				
12	400 kV 1PH TRANSFORMER				
13	400 kV GIS / CABLE INTERFACE				
14	400 kV GIS SURGE ARRESTOR				
15	EMERGENCY DIESEL GENERATOR				
16	DIESEL TANK				
17	400 kV GIS / AIR BUSHING				
18	400 kV HARMONIC FILTER - RESISTOR				
19	400 kV HARMONIC FILTER - REACTOR				
20	400 kV HARMONIC FILTER - CAPACITOR				
21	400 kV PLC FILTER - REACTOR				
22	400 kV PLC FILTER - CAPACITOR				
23	HARMONIC FILTER - SURGE ARRESTOR				
24	EXTERNAL FIN FAN COOLER				
25	BUILDING FOR PUMP SKID COOLING SYSTEM				
26	AHU FOR REACTOR & VALVE HALL BUILDING				
27	AHU FOR DC HALL BUILDING				
28	PORTABLE RELAY ROOM				
29	400 kV PIR				
30	400 kV LCC				
31	ROLLING SHUTTER DOOR				
32	11kV POST INSULATOR				

Α	08/09/2023	FINAL	MS	JW	KJ				
Issue	Date	Remarks	Drawn	Checked	Approved				
<u>Title</u>	THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC(SEA LINK)								
	DESIGN D	RAWINGS FOR C	ONSU	LTATI	ON				
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SHEET 2 OF 2

national**grid** Application Number

	EN02	20026		
National Grid Drawi	ng Reference			
S42_S/TDD/SS/0020				
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1 : 200	A1	SHEET 2 OF 2	А	

01-03.

Suffolk Only - HVDC & HVAC Cross Sections for

Sea Link plus ducts for up to two other projects

Drawing Category Name	Plan Title	Scheme	C
Suffolk Only - HVDC & HVAC Cross	Typical HVDC construction area for Sea Link plus ducts for up to two further projects	Suffolk Onshore Scheme	S
Sections for Sea Link plus ducts for up to	Typical HVAC construction area for Sea Link plus ducts for up to two further projects	Suffolk Onshore Scheme	S
two other projects	Typical HVAC and HVDC combined construction area for Sea Link plus ducts for up to two further projects	Suffolk Onshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_S/TDD/SS/0018

S42_S/TDD/SS/0013

S42_S/TDD/SS/0014







THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL HVDC CONSTRUCTION AREA FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS SHEET 1 OF 1

	 	Note: For s These Alignm future f Limits : Conse bylon la Alignm only. F nterac For fur Constru Report	S plans show nent and po flexibility, N and Limits nt Order, w ocations) w nent and py further info ting with o ther inform action sect t, Volume 1	/ CONSUIta w the Draft O otential pylon National Grid of Deviation vithin which a vould lie. The vould lie. The vould lie. The vould lie. The lon locations rmation is pro- ur consultation ation of the Pre- l, Part 1, Cha	tion provided in the second se	DUITPOS nits and ns. Due applying ts Devel alignme the Draf I be trea n our 'G docum n please y Enviro	Ses (Draft to the g for O lopme ent (in t Cable ted as buide to nent. e refer	Dnly. Cable need for rder nt cluding e indicativ o to the tal Impac
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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL HVAC AND HVDC COMBINED CONSTRUCTION AREA FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS SHEET 1 OF 1

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01-04. HVDC & HVAC Arrangement & Cross Sections

Drawing Category Name	Plan Title	Scheme	6
HVDC & HVAC Arrangement & Cross	Typical HVAC direct buried cross section and construction area	Suffolk Onshore Scheme	S
Sections	Typical 400kv HVAC joint bay arrangement	Suffolk Onshore Scheme	S
	Typical HVAC direct buried cross section and construction area	Onshore Schemes	S
	Typical HVAC joint bay arrangements	Onshore Schemes	S
	Typical HVAC and HVDC combined construction area	Suffolk Onshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_S/TDD/SS/0010

S42_S/TDD/SS/0011 S42_T/TDD/SS/3001

S42_T/TDD/SS/3003 S42_S/TDD/SS/0012





THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL HVAC DIRECT BURIED CROSS SECTION AND CONSTRUCTION AREA SHEET 1 OF 1

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	NotesFor statutory consultation purposes only.These plans show the Draft Order Limits and DraftCable Alignment and potential pylon locations. Due tothe need for future flexibility, National Grid will beapplying for Order Limits and Limits of Deviation withinits Development Consent Order, within which any finalalignment (including pylon locations) would lie.Therefore the Draft Cable Alignment and pylon locationsshould be treated as indicative only. Further informationis provided in our 'Guide to interacting with ourconsultation plans' document.For further information on construction please refer tothe construction section of the PreliminaryEnvironmental Impact Report, Volume 1, Part 1,Chapter 4.
	Legend Cable protection cover 400 kV Power Cable Bonding Cable Cement-bound Sand (CBS) Well-compacted thermally suitable indigenous soil Concrete Concrete Cable Warning Tape Telecommunication Chamber Distributed Temperature Sensing (DTS) Loop Timber Fence DTS Cables Communication Cable Duct
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	Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL 400kV HVAC JOINT BAY ARRANGEMENT SHEET 1 OF 1
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	For statutory consultation purposes only. These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to							
	For further information on construction please refer to the							
	Report, Volume 1, Part 1, Chapter 4.							
	Legend							
	Well-compacted thermally suitable backfill							
	Well-compacted thermally suitable backfill (Splayed Excavation)							
	Cement-bound sand cable surround							
	Cement-bound sand cable surround (Splayed Excavation)							
	Cable protection tiles							
	Cable warning tape							
	Topsoil stockpile							
	Subsoil stockpile							
	Existing Ground							
	Temporary Haul Road/ Footway							
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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL HVDC JOINT BAY ARRANGEMENT SHEET 1 OF 1

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For statutory consultation purposes only. These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.							
For further info	rmation on construction please refer to the						
Report, Volum	e 1, Part 1, Chapter 4.						
Legend							
	Well-compacted thermally suitable backfill						
	Well-compacted thermally suitable backfill (Splayed Excavation)						
	Cement-bound sand cable surround						
	Cement-bound sand cable surround (Splayed Excavation)						
	Cable protection tiles						
	Cable warning tape						
	Topsoil stockpile						
	Subsoil stockpile						
	Existing Ground						
	Temporary Haul Road/ Footway						

Notes

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SCALE BAR (METRES)

01-05. Minster Converter Station

Drawing Category Name	Plan Title	Scheme	C
Minster Converter	Typical Minster converter station - layout plan (GIS)	Kent Onshore Scheme	S
Station	Typical minster converter station - elevation drawing	Kent Onshore Scheme	S
			S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_K/TDD/SS/2002 S42_K/TDD/PS/2005_SH1 S42_K/TDD/PS/2005_SH2

NOMIN SYST VOLTA	NAL EM AGE	PHASE TO EARTH	PHASE TO PHASE	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)	DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh	INSULATION HEIGHT Ih
kV		М	М	М	М	M (SEE POINT ii FROM NOTE 10)	М
400)	2.8	3.6	3.1	5.5	4.6	2.4

Notes

 For statutory consultation purposes only. These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with 								
2.	 For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, 							
. 3.	 3. Abbreviations PIR - Pre-Insertion Resistor CAP - Capacitor RES - Resistor REA - Reactor PI - Post Insulator CT - Current Transformer CVT - Capacitive Voltage Transformer ES - Earth Switch SA - Surge Arrester PRR - Portable Relay Room LCC - Local Control Cubicle 							
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SUBS	SUBSTATION MINIMUM ELECTRICAL CLEARANCES						
DEE		NOMINAL SYSTEM VOLTAGE					
		400kV					
P-E	PHASE TO EARTH	2800					
P-P	PHASE TO PHASE	3600					
SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3100					
Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500					
Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600					
lh	INSULATION HEIGHT	2400					

Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

1. THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DEVELOPMENT CONSENT ORDER, WITHIN WHICH ANY FINAL ALIGNMENT (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.

2 FOR FURTHER INFORMATION ON CONSTRUCTION PLEASE REFER TO THE CONSTRUCTION SECTION OF THE PRELIMINARY ENVIRONMENTAL IMPACT REPORT, VOLUME 1, PART 1, CHAPTER 4.

3. ABBRIVIATION

- PLC POWER LINE CARRIER AIS - AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE
- PH PHASE
- GIB GAS INSULATED BUSDUCT

Legend

New Equipment

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	02	400k∨	400kV AIS EARTH SWITCH							
	03	400kv	GIS / AIR BUS	SHING						
	06	400k∨	GIS HALL							
	20			,						
	21	550K	AIS CVT							
	23	550K\	AIS EARTH S	WITC	H					
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	32	400 k	/ PIR							
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	34	400 k	/ PLC FILTER	- CAF	PACIT	、 OR				
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SHEET 1 OF 2 A

Substation and HVDC converter station

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION **TYPICAL MINSTER CONVERTER STATION - ELEVATION DRAWING** SHEET 2 OF 2

1 : 200

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
	400kV
TO EARTH	2800
TO PHASE	3600
DISTANCE NATIONAL GRID SAFETY RULES	3100
N CLEARANCE FOR SAFETY (VERTICAL)	5500
N CLEARANCE FOR SAFETY (HORIZONTAL)	4600
TION HEIGHT	2400

Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DEVELOPMENT CONSENT ORDER, WITHIN WHICH ANY FINAL ALIGNMENT (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.

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ABBRIVIATION

- PLC POWER LINE CARRIER AIS - AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR
- PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE
- PH PHASE
- GIB GAS INSULATED BUSDUCT

Legend

New Equipment

	Equipment Schedule							
Itei	m			Des	cri	ption		
01		400kV	AIS SU	RGE AR	RE	STOR		
02	2	400kV	AIS EAF	RTH SM	/ITC	H		
03	3 L	400kV				2		
04	r 5	400kV	GIS / A			3		
20)	LCC						
21		ROLL	ING SHL	ITTER				
22	<u>}</u>	550K		T DTU QM				
23	, 	550KV	AIS EA	RGE AF		STOR		
25	5	550K\	POST I	NSULA	TOF	2		
26	6	550K\	/ CURRE	ENT TRA	٩NS	SFORM	1ER	
27	7 	EXTE						<u>, </u>
28	•	SYST	EM		- Sr		OLING	7
29)	AHU F	FOR REA	CTOR	& V.	ALVE	HALL E	BUILDING
30)		OR DC	HALL B	UIL	DING		
31)	PORT		LAY R	001	M		
32	- 3	11kV		SULAT	OR			
34	ŀ	400 k	/ PLC FI	LTER -	RE	ACTO	R	
35	5	400 k\	/ PLC FI	LTER -	CA	PACIT	OR	
36	3	400 k	/ 1PH TF	RANSFO	DRM	IER		
38	5	400 k		NALL P				
A	08/0)9/2023	F	INAL		MS	JW	KJ
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<u>Title</u>	Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL MINSTER CONVERTER STATION - ELEVATION DRAWING SHEET 2 OF 2							
A	No. 11	n	atio	na	lg	ric	k	
Applica	tion N	umber		EN02002	6			
Nationa	al Grid	Drawing	Reference					

National Grid Drawing Reference								
	S42_K/TDD/PS/2005							
<u>Scale</u>	Sheet Size	<u>Sheet</u>	<u>Issue</u>					
1 : 200	A1	SHEET 2 OF 2	А					

01-06. Minster 400kV Substation

Drawing Category Name	Plan Title	Scheme	C
Minster 400kV Substation	Typical Minster 400kV GIS substation - overall layout	Kent Onshore Scheme	S
	Typical 400kV GIS substation - elevation drawing	Kent Onshore Scheme	

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_K/TDD/SS/2001

S42_K/TDD/PS/2003_SH1 S42_K/TDD/PS/2003_SH2

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL MINSTER 400KV GIS SUBSTATION - OVERALL LAYOUT SHEET 1 of 1

NOMINAL SYSTEM VOLTAGE	PHASE TO EARTH	PHASE TO PHASE	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)	DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh	INSULATION HEIGHT Ih
kV	М	М	М	М	M (SEE POINT ii FROM NOTE 6)	М
400	2.8	3.6	3.1	5.5	4.6	2.4

	For statutory consultation purposes only.
	1. These plans show the Draft Order Limits and
	Draft Cable Alignment and potential pylon
	locations. Due to the need for future flexibility,
	National Grid will be applying for Order Limits and
	Limits of Deviation within its Development
	Consent Order, within which any final alignment
_	(including pylon locations) would lie. Therefore
	the Draft Cable Alignment and pylon locations
	should be treated as indicative only. Further
	information is provided in our 'Guide to interacting
	with our consultation plans' document.

2. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.

3. Abbreviations

Notes

AIS -	Air Insulated Switchgear
CVT -	Capacitive Voltage Transformer
GIS -	Gas Insulated Switchgear
LVAC -	Low Voltage Alternating Current
HVDC-	High Voltage Direct Current

4. Elevation sections relate to S42_S/TDD/SS/2003_SH1 & S42_S/TDD/SS/2003_SH2.

Legend

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LIMIT OF LAND

FENCE NEW EQUIPMENT

ID	DESCRIPTION
01	400kV AIS SURGE ARRESTOR
02	400kV AIS EARTH SWITCH
03	400kV AIS CVT
04	400kV GIS / AIR BUSHING
05	AMENITIES BUILDING
06	400kV GIS HALL
07	HARDSTANDING AREA
08	PARKING
09	400kV ANNEX BUILDING
09a	BATTERY ROOM
09b	LVAC SUPPLIES DISTRIBUTION ROOM
09c	TELECOMS ROOM
09d	SUBSTATION CONTROL SYSTEM/PERMIT ROOM
09e	PROTECTION ROOM
10	WORKSHOP
11	STORAGE
12	SURGE ARRESTOR
13	CURRENT TRANSFORMER
14	CAPACITOR
15	REACTOR
16	RESISTOR
17	DIESEL TANK

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ssue	Date		Remarks		Drawn	Check	ked	Approved
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		nat	ION	alg	ric			
<u>Applica</u>	ation Numbe	er	EN0200	026				
Nationa	al Grid Draw	ving Refer	ence					
		S42_	_K/TDD/S	SS/2001				
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50m

	ANCES		
	REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
			400kV
	P-E	PHASE TO EARTH	2800
	P-P	PHASE TO PHASE	3600
	SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3100
	Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500
	Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600
	lh	INSULATION HEIGHT	2400

Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

1. THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DEVELOPMENT CONSENT ORDER, WITHIN WHICH ANY FINAL ALIGNMENT (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.

FOR FURTHER INFORMATION ON CONSTRUCTION PLEASE REFER TO THE CONSTRUCTION SECTION OF THE PRELIMINARY ENVIRONMENTAL IMPACT REPORT, VOLUME 1, PART 1, CHAPTER 4.

ABBRIVIATION

- PLC POWER LINE CARRIER AIS - AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE
- PH PHASE GIB - GAS INSULATED BUSDUCT

Legend

			nt				
	Equ	ipment So	cheo	dule	;		
Item	Item Description						
	400117		0705				
01	400kV 400kV	AIS SURGE ARRE	STOR CH				
03	400kV	AIS CVT					
04	400kV	GIS / AIR BUSHIN	G				
13	400kv 400 kV	HARMONIC FILTE	R - CU	JRREN	IT		
4.4	TRANS						
14	400 kV	HARMONIC FILTE	R - CA	ACTO	R		
16	400 kV	HARMONIC FILTE	R - RE	SISTC)R		
19	400kV	TERMINAL TOWE	R				
20							
	08/09/2023	FINAL	MS	JW	KJ		
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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION **TYPICAL 400kV GIS SUBSTATION - ELEVATION DRAWING** SHEET 2 OF 2

ELEVATION 3

Notes

FOR STATUTORY CONSULTATION PUPOSES ONLY.

CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
	400kV
TO EARTH	2800
TO PHASE	3600
DISTANCE NATIONAL GRID SAFETY RULES	3100
I CLEARANCE FOR SAFETY (VERTICAL)	5500
I CLEARANCE FOR SAFETY (HORIZONTAL)	4600
TION HEIGHT	2400

THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DEVELOPMENT CONSENT ORDER, WITHIN WHICH ANY FINAL ALIGNMENT (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.

FOR FURTHER INFORMATION ON CONSTRUCTION PLEASE REFER TO THE CONSTRUCTION SECTION OF THE PRELIMINARY ENVIRONMENTAL IMPACT REPORT, VOLUME 1, PART 1, CHAPTER 4.

ABBRIVIATION

- PLC POWER LINE CARRIER AIS - AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR PIR - PRE INSERTION RESISTOR
- LCC LOCAL CONTROL CUBICLE
- PH PHASE
- GIB GAS INSULATED BUSDUCT

Legend

2

New Equipment

Equipment Schedule						
Item	Description					
01	400kV AIS SURGE ARRESTOR					
02	400kV AIS EARTH SWITCH					
03	400kV AIS CVT					
04	400kV GIS / AIR BUSHING					
06	400kV GIS HALL					
13	400 kV HARMONIC FILTER - CURRENT TRANSFORMER					
14	400 kV HARMONIC FILTER - CAPACITOR					
15	400 kV HARMONIC FILTER - REACTOR					
16	400 kV HARMONIC FILTER - RESISTOR					
19	400kV TERMINAL TOWER					
20	LCC					

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<u>Title</u> T`	THE TRAN DESIGN YPICAL 4	E NATIONAL G SMISSION PLO I DRAWINGS I 100kV GIS SUE DRAV	GRID ELEC C (SEA LII FOR CON BSTATION VING	CTRI NK) (SUL ⁻	CITY ORDE TATIO	ER ON TION		
<u>Title</u>	THE TRAN DESIGN YPICAL 4	E NATIONAL G SMISSION PLO I DRAWINGS I 400kV GIS SUE DRAV SHEET	GRID ELEC C (SEA LII FOR CON BSTATION VING 2 OF 2	CTRI NK) (SUL I - EI	CITY ORDE TATIO	ER ON TION		
<u>Title</u> T`	THE TRAN DESIGN YPICAL 4	E NATIONAL G SMISSION PLO I DRAWINGS I 100kV GIS SUE DRAV SHEET	FOR CON STATION VING 2 OF 2	SUL	CITY ORDE TATIO	ER ON TION		
<u>Title</u> T` <u>Applica</u>	THE TRAN DESIGN YPICAL 4	E NATIONAL G SMISSION PLO I DRAWINGS I 400kV GIS SUE DRAV SHEET NATION	FOR CON STATION VING 2 OF 2 algr	SUL	CITY ORDE TATIO	ER ON ITION		
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T'	THE TRAN DESIGN YPICAL 4	E NATIONAL G SMISSION PLO I DRAWINGS I 400kV GIS SUE DRAV SHEET DATION EN02 ng Reference S42_K/TDI Sheet Size	RID ELEC C (SEA LII FOR CON BSTATION VING 2 OF 2 algr 20026	SUL		ER ON TION		

01-07. Bellmouths, Compounds & Pylon Types

Drawing Category Name	Plan Title	Scheme	6
Compounds,	Typical bellmouth arrangement details	Onshore Schemes	
Bellmouths & Pylon Types	Typical OHL_and construction works construction compound	Onshore Schemes	
	Typical converter and substation works construction compounds	Onshore Schemes	S
	Typical OHL pylon detail	Onshore Schemes	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_T/TDD/SS/3002 S42_T/TDD/SS/3004

S42_T/TDD/SS/3005

S42_T/TDD/SS/3006

DESIGN DRAWINGS FOR CONSULTATION TYPICAL BELLMOUTH ARRANGEMENT DETAILS SHEET 1 OF 1

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL OHL AND CONSTRUCTION WORKS CONSTRUCTION COMPOUND SHEET 1 OF 1

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL CONVERTER AND SUBSTATION WORKS CONSTRUCTION COMPOUNDS SHEET 1 of 1

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	2.	Statutory These pla Draft Cab locations. National C Limits of Consent (including the Draft should be informatic with our of For furthe refer to th Environm Chapter 4 Abbreviat AIL - HGV - HV -	/ consulta ans show the ole Alignment Due to the r Grid will be a Deviation wit Order, within pylon locati Cable Alignr treated as i on is provider consultation p er information te construction tental Impact 4. tions Abnorma Heavy G High Volt	tion p break t and p heed for pplyin hin its which ons) w nent a ndicati d in ou plans' n on co part sec Repo	Ourpos Order I ootentia or future g for Or Develo any fir rould lie nd pylo ve only r 'Guide docume onstruct tion of t rt, Volu	Ses (Limits I pylo e flexi rder L pmer hal alig . The n loca f. Furt e to ir ent. ion pl he Pr me 1,	only. and n bility, imits and nt gnment refore ations her nteracting ease reliminary Part 1,
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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION TYPICAL OHL PYLON DETAIL SHEET 1 of 1

The Great Grid Upgrade Sea Link

02. Offshore Design Drawings

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

nationalgrid

02-01. Pre-Cable Installation Works

Drawing Category Name	Plan Title	Scheme	6
Pre-Cable Installation Works	Illustration of unexploded ordnance, removal and detonation	Offshore Scheme	S
	Illustration of boulder clearance	Offshore Scheme	S
	Illustration of pre-lay grapnel run	Offshore Scheme	5
	Illustration of indicative pre-sweeping and sidecasting	Offshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_M/TDD/SS/1030

S42_M/TDD/SS/1027 S42_M/TDD/SS/1028 S42_M/TDD/SS/1029

	 Notes For statutory consultation purposes only 1. Do not scale from this drawing. 2. All dimensions are in metres/millimetres unless otherwise stated. 3. This drawing is to be read in conjunction with all relevant documents and drawings. 4. No unauthorised disclosure, storage or copying. 5. Detailed design, including final dimensions, to be decided at a later date. 6. PLGR = Pre Lay Grapnel Run 7. For further explanation of these plans see the Guide to the Plans Document. 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4
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	Application Number
	National Grid Drawing Reference S42_M/TDD/SS/1028
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02-02. Cable Installation Works

Drawing Category Name	Plan Title	Scheme	5
Cable Installation	Illustration of simultaneous lay and burial	Offshore Scheme	S
Works	Illustration of lay and post-lay burial	Offshore Scheme	S
	Illustration of illustration of omega and inline joint	Offshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

642_	_M/TDD/SS/1032
642_	_M/TDD/SS/1033
642_	_M/TDD/SS/1031

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SHEET 1 OF 1

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SHEET 1 OF 1

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02-03. Cable Configuration and Trench Profiles

Drawing Category Name	Plan Title	Scheme	C
Cable Configuration	Illustration of bundled cable profile/ configuration	Offshore Scheme	S
and Trench Profiles	Illustration of typical marine trench profiles	Offshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_M/TDD/SS/1026 S42_M/TDD/SS/1036

Notes For statutory consultation purposes (1. Do not scale from this drawing. 2. All dimensions are in metres/millimetres unless otherwise stated. 3. This drawing is to be read in conjunction with all relevant documents and drawings. 4. No unauthorised disclosure, storage or copying.	only
 5. Detailed design, including final dimensions, to be decided at a later date. 6. The possibility of 'V' shaped trench due to shallow soil types and/or trench collapse cannot be ruled of . For further explanation of these plans see the Gui to the Plans Document. 8. For further information on construction please refet the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4 	out. de ir to
MI, PPL) Legend Water Sub-seabed Sediment	
) pe rn Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate:N/A	
A 24/10/2023 FINAL AMN FSS F Issue Date Remarks Drawn Checked App Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION ILLUSTRATION OF HVDC BUNDLED CABLE PROFILE / CONFIGURA SHEET 1 of 1 Constionalarid	G oved
Inationalgrid Application Number - National Grid Drawing Reference S42_M/TDD/SS/1026 Scale Sheet Size NTS A1	

	 Notes For statutory consultation purposes only 1. Do not scale from this drawing. 2. All dimensions are in metres/millimetres unless otherwise stated. 3. This drawing is to be read in conjunction with all relevant documents and drawings. 4. No unauthorised disclosure, storage or copying. 5. Detailed design, including final dimensions, to be decided at a later date. 6. For further explanation of these plans see the Guide to the Plans Document. 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4 			
	$ \begin{array}{c} $			
redging shallow water, DNVGL-RP-0360)	Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate:N/A			
	A 24/10/2023 FINAL AMN FSS KG Issue Date Remarks Drawn Checked Approved			
	THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION ILLUSTRATION OF TYPICAL MARINE TRENCH PROFILES SHEET 1 of 1			
	Application Number - National Grid Drawing Reference			
	S42_M/TDD/SS/1036 Scale Sheet Size Sheet Issue NTS A1 SHEET 1 OF 1 A			
	/ I I			

02-04. Cable Crossings and Protection

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Cable Crossings and Protection	Indicative HVDC bundled cable crossing over unburied fibre optic/telecoms asset	Offshore Scheme	S42_M/TDD/SS/1021
	Indicative HVDC bundled cable crossing over buried FO/telecoms asset	Offshore Scheme	S42_M/TDD/SS/1022
	Indicative HVDC bundled cable crossing over buried power cable asset	Offshore Scheme	S42_M/TDD/SS/1023
	Indicative HVDC bundled cable crossing over pre lay berm	Offshore Scheme	S42_M/TDD/SS/1024
	Indicative rock berm schematics pre lay and post lay	Offshore Scheme	S42_M/TDD/SS/1025
	Illustration of cable protective systems	Offshore Scheme	S42_M/TDD/SS/1034
	Illustration of rock placement sections	Offshore Scheme	S42_M/TDD/SS/1035

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

D ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER SIGN DRAWINGS FOR CONSULTATION ATIVE HVDC BUNDLED CABLE CROSSING OVER BURIED POWER CABLE ASSET SHEET 1 of 1	 Notes For statutory consultation purposes only 1. Do not scale from this drawing. 2. All dimensions are in metres/millimetres unless otherwise stated. 3. This drawing is to be read in conjunction with all relevant documents and drawings. 4. No unauthorised disclosure, storage or copying. 5. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with third parties including burial technique. 6. Minimum vertical offset between the crossing power cables to be agreed as part of crossing agreement. 7. Protective sleeves can be added ±10m from crossing point, if required as part of crossing agreement. 8. For further explanation of these plans see the Guide to the Plans Document. 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4
ROCK PLACEMENT SYMMETRICAL ABOUT CROSSING POINT	
	Legend
	Post Lay Rock Berm
	Existing Asset
	New HVDC Bundle
	Protective Sleeve
PLAN VIEW	
SECTIONA	
SCALE N.T.S.	
7.0m O/A BERM	
1.0m	Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate:N/A
3	
SEABED	A 24/10/2023 FINAL AMN FSS KG
	Issue Date Remarks Drawn Checked Approved Title THE NATIONAL GRID ELECTRICITY
SECTION B SCALE N.T.S HVDC BUNDLE CABLE	TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION INDICATIVE HVDC BUNDLED CABLE CROSSING OVER BURIED POWER CABLE ASSET SHEET 1 of 1
SHOWN WITH OPTIONAL PROTECTIVE SLEEVE	national arid
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	 Notes For statutory consultation purposes only Do not scale from this drawing. All dimensions are in metres/millimetres unless otherwise stated. This drawing is to be read in conjunction with all relevant documents and drawings. No unauthorised disclosure, storage or copying. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with third parties including burial technique. Protective sleeves can be added ±10m from crossing point, if required as part of crossing agreement. For further explanation of these plans see the Guide to the Plans Document. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4
	Legend Image: Dest Lay Rock Bern Image: Dest Lay Rock Bern
ROSSING POINT, OCCURS DF PRE LAY BERM	
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E CABLE I OPTIONAL SLEEVE	A 24/10/2023 For Information AMN FSS KG Issue Date Remarks Drawn Checked Approved Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION INDICATIVE HVDC BUNDLED CABLE CROSSING OVER PRE LAY BERM SHEET 1 of 1
	Inationalgrid Application Number - National Grid Drawing Reference S42_M/TDD/SS/1024 Scale Scale Sheet Size Sheet Issue NTS A1 SHEET 1 OF 1 A

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION

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Proposed Cable Rock Berm Nattress Ixisting Asset		egenc	Water Seabed Sediment Mattress (Plan View) Mattress (Longitudinal Mattress (Cross Section Rock Berm Existing Asset	Section)		
			New HVDC Bundle			
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DESIGN DRAWINGS FOR CONSULTATION ILLUSTRATION OF ROCK PLACEMENT SECTIONS SHEET 1 of 1

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S42_M/TDD/SS/1035					
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02-05. Landfall Trenchless Installation Technique

Drawing Category Name	Plan Title	Scheme	6
Landfall Trenchless	Illustration of typical HDD landfall	Offshore Schemes	S
Installation Technique			

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_M/TDD/SS/1043

02-06. Landfall Installation - Aldeburgh For Sea Link

Only

Drawing Category Name	Plan Title	Scheme	נ
Landfall Installation - Aldeburgh For Sea	Indicative horizontal direction drill solution for sea link only Aldeburgh	Suffolk Onshore Scheme	Ç
Link Only	Indicative layout of HDD construction compound for sea link only Aldeburgh	Suffolk Onshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_M/TDD/SS/1042

S42_M/TDD/SS/1044

INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION FOR SEA LINK ONLY ALDEBURGH SHEET 1 of 1

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 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
 10. HDD = Horizontal Directional Drill.

Legend

Indicative Sea Link HDD Alignment Indicative Reserve HDD Alignment
- duct only

Sheet X Centroid Coordinate: N/A	Sheet Y Centroid Coordinate: N/A

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER

DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION FOR SEA LINK ONLY ALDEBURGH

SHEET 1 of 1

nationalgrid Application Number

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION

Notes

Indicative Sea Link HDD Alignment
Indiactive Reserve HDD Alignment

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National Grid Drawing Reference			
S42_M/TDD/SS/1044			
<u>Scale</u>	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	01

02-07. Landfall Installation - Aldeburgh For Sea Link Plus Ducts for up to two further projects

Drawing Category Name	Plan Title	Scheme	0
Landfall Installation - Aldeburgh For Sea Link Plus Ducts for up	Indicative horizontal directional drill solution for sea link plus ducts for up to two further projects Aldeburgh	Suffolk Onshore Scheme	S
to two further projects	Indicative layout of HDD construction compound for sea link plus ducts for up to two further projects Aldeburgh	Suffolk Onshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_M/TDD/SS/1041

S42_M/TDD/SS/1038

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Notes

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 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
 10. HDD = Horizontal Directional Drill.

Legend

Indicative Sea Link HDD Alignment
Indicative Reserve HDD Alignment - duct only
 Indicative Additional Co-Location Ducts
 Indicative Additional Co-Location Ducts

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SOLUTION FOR SEA LINK PLUS DUCTS FOR UP TO					
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INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS ALDEBURGH SHEET 1 of 1

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION

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 For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
 For indicative HDD alignments see Drawing No. S42_M/TDD/SS/1041
 HDD = Horizontal Directional Drill.

SITE MAP
B1153
p1333
B1122
Thorpeness
B1353 Ogilvie Hall
Barlion and Sports Ground
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Legend

 Indicative Sea Link HDD Alignment
 Indicative Reserve HDD Alignment - duct only
 Indicative Additional Co-Location Ducts
 Indicative Additional Co-Location Ducts

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DESIGN DRAWINGS FOR CONSULTATION					
INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS ALDEBURGH					
SHEET 1 of 1					
national grid					

Application Number

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S42_M/TDD/SS/1038			
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02-08. Landfall Installation - Pegwell Bay

Drawing Category Name	Plan Title	Scheme	C
Landfall Installation - Pegwell Bay	Indicative horizontal directional drill solution Pegwell bay	Kent Onshore Scheme	S
	Indicative layout of HDD construction compound Pegwell bay	Kent Onshore Scheme	S
	Indicative direct pipe solution Pegwell bay	Kent Onshore Scheme	S

To assist with understanding these drawings please see the Guide to Interacting with the Consultation Plans and Drawings

Drawing Numbers

S42_M/TDD/SS/1039

S42_M/TDD/SS/1037

S42_M/TDD/SS/1040

SHEET 1 of 1

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND PEGWELL BAY SHEET 1 of 1

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- otherwise stated.
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 Detailed design, including final dimensions, to be decided at a later date.
 For further explanation of these plans see the Guide to the Plans Document.
 For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 Background Bing Maps period photograph.
- Chapter 4.
 8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
 9. For indicative HDD alignments see Drawing No. S42_M/TDD/SS/1039
 10. For General Arrangement Plan see Drawing No. S42_K/IGA/PS/2003
 11. HDD = Horizontal Directional Drill.

Legend

Indicative	HDD	Alignment

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DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND PEGWELL BAY

SHEET 1 of 1

nationalgrid Application Number

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National Grid Drawing Reference			
S42_M/TDD/SS/1037			
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