

CABLE GEOTECHNICAL ZONE PARAMETERS AND ENVIRONMENTAL HABITAT

Environmental Issue	AS-301
Area of Subsea Mining	
Area of Subsea Farming	
Area of Subsea Infrastructure	
Area of Subsea Geology	
Area of Subsea Biology	
Area of Subsea Chemistry	
Area of Subsea Physics	
Area of Subsea Acoustics	
Area of Subsea Seismicity	
Area of Subsea Electromagnetism	
Area of Subsea Optics	
Area of Subsea Thermodynamics	
Area of Subsea Fluid Dynamics	
Area of Subsea Mass Transport	
Area of Subsea Energy Transport	
Area of Subsea Information Transport	
Area of Subsea Matter Transport	
Area of Subsea Energy-Matter Transport	
Area of Subsea Information-Matter Transport	
Area of Subsea Energy-Information Transport	
Area of Subsea Matter-Information Transport	
Area of Subsea Energy-Matter-Information Transport	

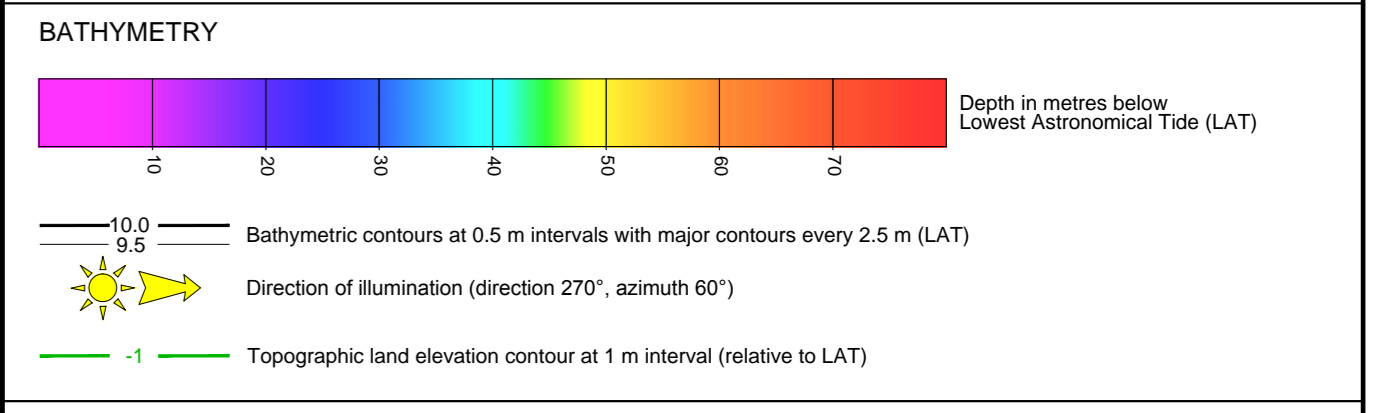
SUMMARY OF CABLE GEOTECHNICAL ZONES

Zone	Depth (m)	Soil Type	Soil Description	Soil Parameters	Soil Properties	Soil Strength	Soil Stiffness	Soil Compressibility	Soil Permeability	Soil Anisotropy	Soil Heterogeneity	Soil Variability	Soil Uncertainty
1	0 - 10	Silty fine SAND	Silty fine SAND with subordinate GRAVEL	...	...	...	...	...	...	...	...	...	...
2	10 - 20	Loose sandy SILT	Loose sandy SILT	...	...	...	...	...	...	...	...	...	...

PREDICTED GEOTECHNICAL PROFILES

Profile	Depth (m)	Soil Type	Soil Description	Soil Parameters	Soil Properties	Soil Strength	Soil Stiffness	Soil Compressibility	Soil Permeability	Soil Anisotropy	Soil Heterogeneity	Soil Variability	Soil Uncertainty
B10-24-CPT/B10-24-VC	0 - 10	Silty fine SAND	Silty fine SAND with subordinate GRAVEL	...	...	...	...	...	...	...	...	...	...
B10-23-CPT/B10-23-VC	0 - 10	Silty fine SAND	Silty fine SAND with subordinate GRAVEL	...	...	...	...	...	...	...	...	...	...
B10-R-01-CPT/A	0 - 10	Silty fine SAND	Silty fine SAND with subordinate GRAVEL	...	...	...	...	...	...	...	...	...	...
B10-22-CPT/B10-22-VC/A/B	0 - 10	Silty fine SAND	Silty fine SAND with subordinate GRAVEL	...	...	...	...	...	...	...	...	...	...

- LEGEND:**
- Kilometer Post indicating distance from Danish landfall
 - Proposed cable route position
 - Chart overlay
 - Existing pipeline/cable with identification (database position)
 - International maritime boundary (positions from <http://www.eea.europa.eu/data-and-maps/data/maritime-boundaries>)
 - Environmental camera transect with identification
 - Environmental grab sample location with identification
 - Environmental water profile location with identification
 - CPT location with identification
 - Vibrocore location with identification
 - Thermal conductivity core location with identification



- SEABED FEATURES - Based on bathymetry and side scan sonar interpretation unless stated otherwise**
- SAND
 - SAND with pebbles
 - SAND/SILT
 - BEDROCK
 - CLAY
 - Musical beds
 - SAND with pebbles and occasional boulders
 - SAND with pebbles and numerous boulders
 - Area of sand dunes with small ripples
 - Area of seabed with medium/mega-ripples
 - Area of seabed scour
 - Circalittoral mixed sediment
 - Area of benthic reef
 - Area of megaripples
 - Anchor scar
 - Scar/reef crest
 - Wreck with dimensions in metres (LxWxH)
 - Spudcan depression with dimensions in metres (LxWxH)
 - Sonar contact with dimensions in metres (LxWxH)
 - Linear sonar contact with dimensions in metres (LxWxH)
 - Debris with dimensions in metres (LxWxH)
 - Magnetometer contact with magnitude in nanoteslas
 - Boulders with max. dimension between 0 - 0.8 m
 - Boulders with max. dimension between 0.8 - 1.5 m
 - Boulders with max. dimension greater than 1.5 - 5.0 m
 - Boulders with max. dimension greater than 5.0 m
 - As found pipeline/cable position
 - Pipeline/cable exposure
 - Pipeline/cable trespass
 - Seabed along route
 - Seabed along line of profile
 - Peak
 - Amplitude anomaly/acoustic blanking (see Note 12)
 - Sub-sea contact (interred pipeline/cable tracks)
 - Pipeline/cable gravel dump
 - Pipeline/cable matting
 - Reflector

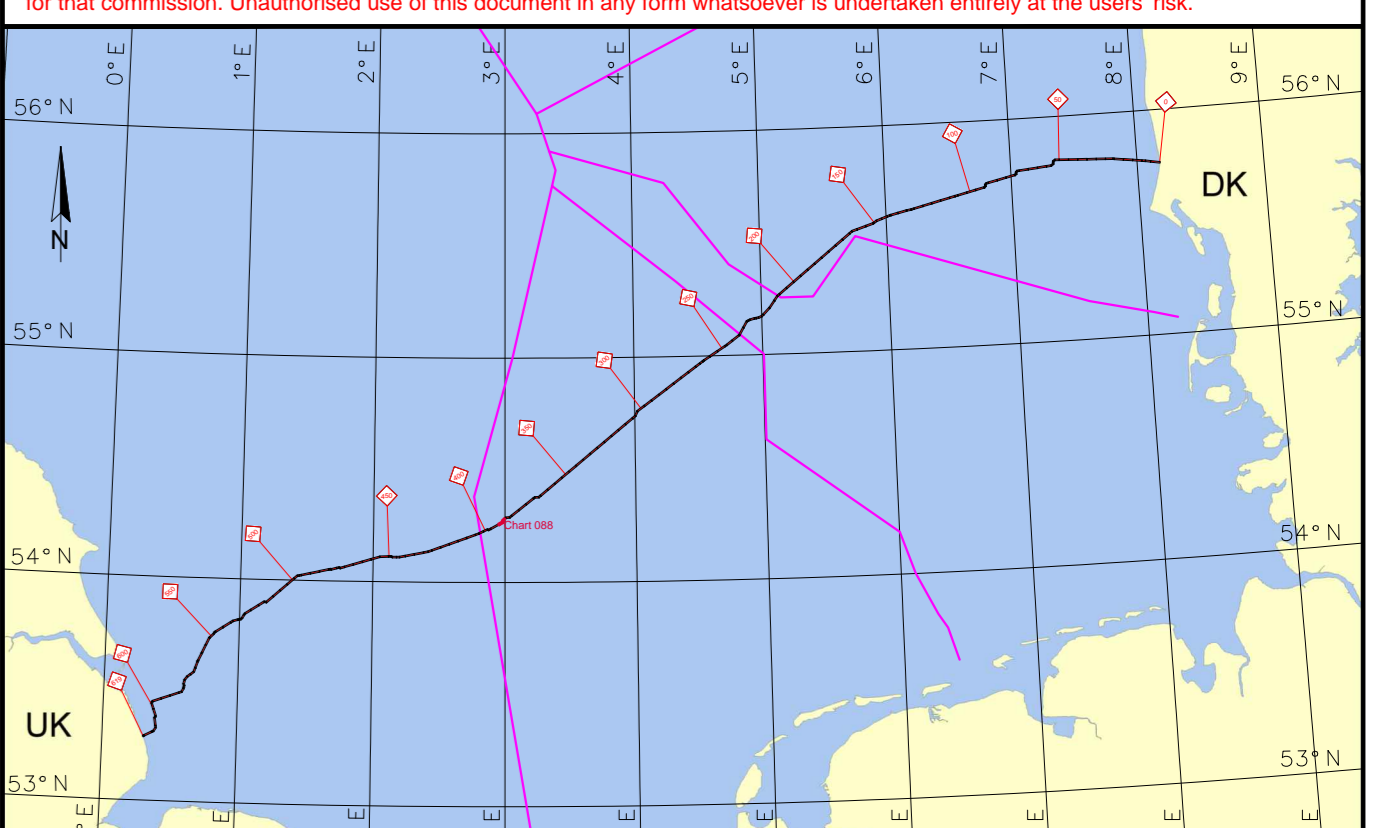
- Geotechnical test summary boxes**
- CLAY
 - SAND
 - SILT
 - GRAVEL
 - CHALK
 - PEAT
 - Point penetrometer
 - Torsion
 - UI-triaxial
 - Cone Resistance, [qc]
 - Open symbols refer to tests performed onshore
 - Full symbols refer to tests performed offshore
 - Half full symbols refer to remoulded tests
 - Regenerated shear strength [Su] derived from CPT
 - Relative Density [Dv] derived from CPT
 - Relative Density [Dv] derived from CPT [Kv = 0.5 / Z (0)]

- NOTES:**
- Legend content mapping of the entire route; some legend content may not apply to this chart. In exceptional areas annotation has been added to the seabed features panel where legend classifications clash.
 - The interpretation is based on all available data which includes multibeam echo sounder, side scan sonar, profiler, magnetometer, grab sample, vibrocore and CPT. Sub-seabed depth conversion uses an assumed internal velocity of 1600 m/s.
 - Stratigraphy and lithology are based on BGS and other publicly available reference information, project geotechnical results and in situ observations.
 - All water depths were referenced to Lowest Astronomical Tide (LAT), reduced using post-processed GNSS height data. The GNSS height data is reduced to Mean Sea Level (MSL) using DTU13 Geoid reference model. Next the height data is reduced to LAT using a DTU13 to LAT model developed by BAST (Bathing Land And Sea Together) for the North Sea.
 - Isobaths, gradients and seabed profiles are extracted from the Digital Terrain Model. Contours have been smoothed; this process may generate minor inconsistencies between profiles and isobaths.
 - The seabed gradient panel shows dip on the route in the direction of the route. Actual dip may be higher in a different direction.
 - Where the route does not follow a profile line the shallow geological profile is based on the closest available data.
 - The derivation of the geotechnical parameters is contained within Section 8.2 of Report J35045-R-DRFA(02).
 - Full geotechnical/geological definitions of each cable geotechnical zone are contained within Section 7.6 of Report J35045-R-DRFA(02).
 - Predicted profiles are summaries of ground conditions to 3 m below sea floor (BSF) based on integration of geotechnical and geological data. Extrapolation to greater depths, or off the route, should only take place in consultation with geological and geotechnical specialists.
 - Cable installation constraints related to seabed and geological features are described in Section 9 of Report J35045-R-DRFA(02).
 - The reflector on the Shallow Geological Profile "Amplitude anomaly/acoustic blanking" is interpreted to represent diffuse gas within the shallow sediments.

COORDINATE REFERENCE SYSTEM:

Geoid datum: ETRS 89
 Ellipsoid: GRS 80
 Semi major axis: 6 378 137.000
 Inverse flattening: 298.257222101
 Vertical datum: Lowest Astronomical Tide (LAT)

Projection: Transverse Mercator
 UTM Zone: 31 North
 Central Meridian: 0° East
 Latitude of Origin: 0° North
 False Easting: 500 000 m
 False Northing: 0
 Scale Factor: 0.9996



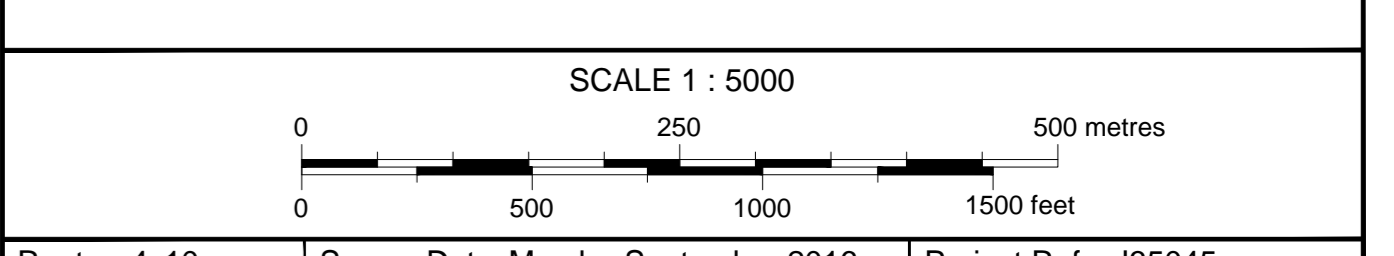
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 NATIONAL GRID INTERNATIONAL LIMITED
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 Torne Kjarvej 65, Ertebølle DK-7000 Fredericia, Denmark

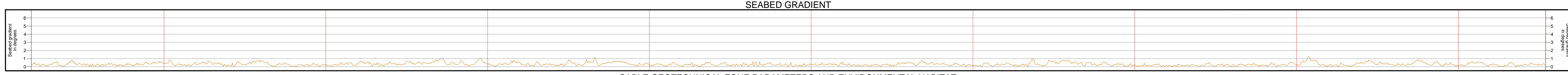
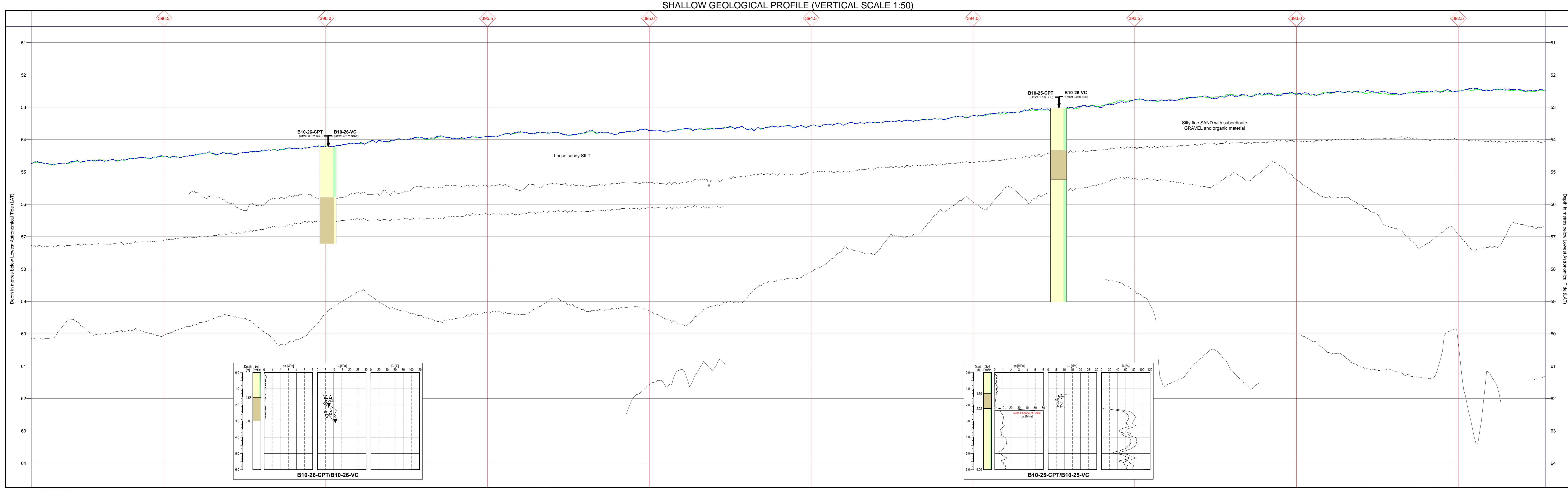
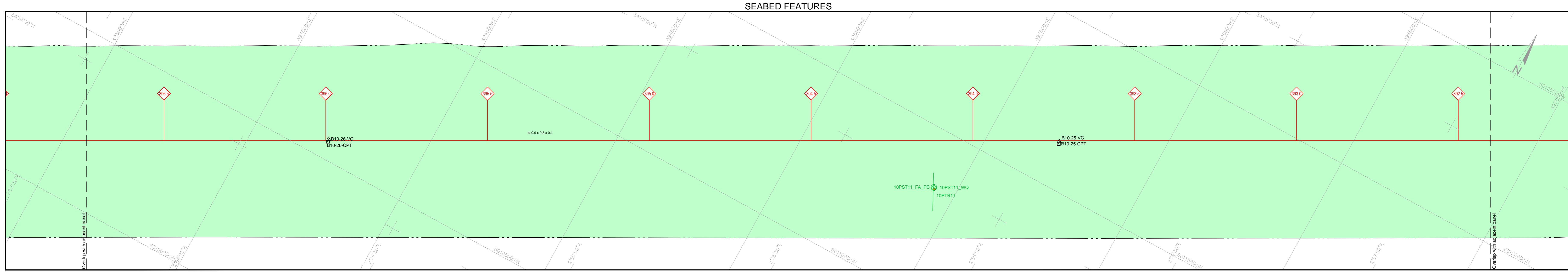
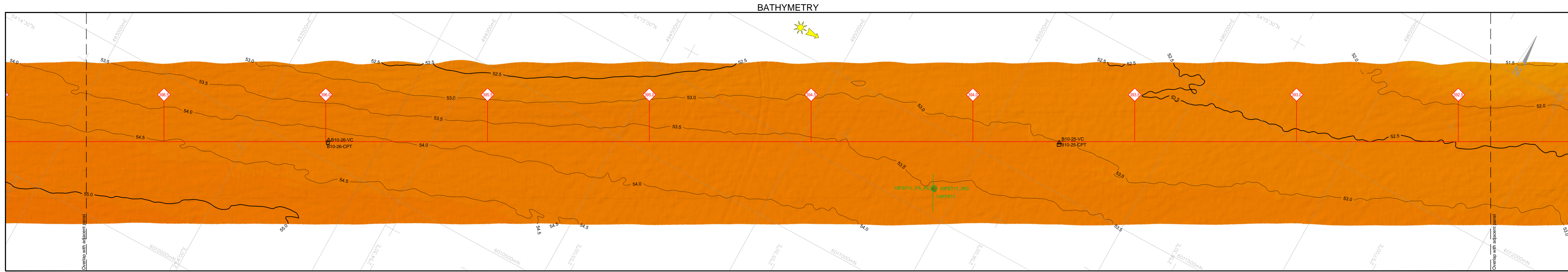
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VIKING LINK

DENMARK TO UK - ROUTE 4v10 LANDFALL 1
ALIGNMENT CHART 088 OF 141



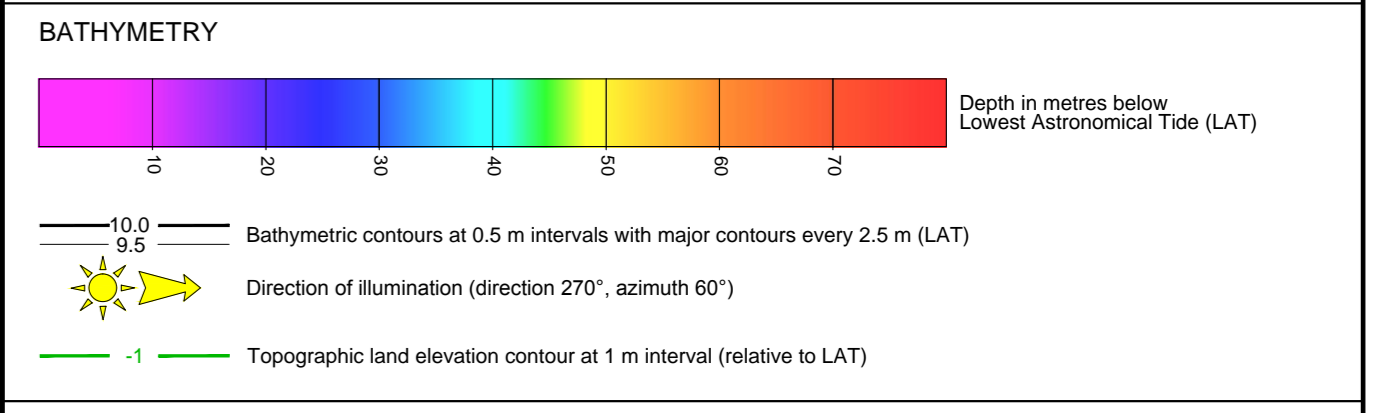
Route:	4v10	Survey Date:	March - September 2016	Project Ref.:	J35045
Issue No.:	03	Date:	16/12/16	Description:	Final Issue
Issue No.:	02	Date:	02/12/16	Description:	Final Issue
Issue No.:	01	Date:	28/10/16	Description:	Draft Issue
Client Ref.:		Drawing No.:	J35045-AL-Chart-088-5k.dwg	Chart:	Chart 088 of 141
Environmental Issue:		Interpret:		Drawn:	
Area of Subsea Mining:		Var.:		Var.:	
Area of Subsea Farming:		Var.:		Var.:	
Area of Subsea Infrastructure:		Var.:		Var.:	
Area of Subsea Geology:		Var.:		Var.:	
Area of Subsea Biology:		Var.:		Var.:	
Area of Subsea Chemistry:		Var.:		Var.:	
Area of Subsea Physics:		Var.:		Var.:	
Area of Subsea Acoustics:		Var.:		Var.:	
Area of Subsea Seismicity:		Var.:		Var.:	
Area of Subsea Electromagnetism:		Var.:		Var.:	
Area of Subsea Optics:		Var.:		Var.:	
Area of Subsea Thermodynamics:		Var.:		Var.:	
Area of Subsea Fluid Dynamics:		Var.:		Var.:	
Area of Subsea Mass Transport:		Var.:		Var.:	
Area of Subsea Energy Transport:		Var.:		Var.:	
Area of Subsea Information Transport:		Var.:		Var.:	
Area of Subsea Matter Transport:		Var.:		Var.:	
Area of Subsea Energy-Matter Transport:		Var.:		Var.:	
Area of Subsea Information-Matter Transport:		Var.:		Var.:	
Area of Subsea Energy-Information Transport:		Var.:		Var.:	
Area of Subsea Matter-Information Transport:		Var.:		Var.:	
Area of Subsea Energy-Matter-Information Transport:		Var.:		Var.:	



Environmental Issue	Area of Sub-optimal Occupancy	Area of Potential Habitats	Sub-optimal Gradient
Sub-optimal Gradient	tc	tc	tc

Zone	Depth (m)	Soil Category	Soil Strength (kPa)	Soil Density (t/m³)	Soil Friction (kN/m²)	Soil Cohesion (kN/m²)	Soil Permeability (m/s)	Soil Compressibility (1/kPa)	Soil Sensitivity (1)	Soil Anisotropy (1)	Soil Heterogeneity (1)	Soil Variability (1)	Soil Predictability (1)	Soil Reliability (1)	Soil Confidence (1)	Soil Accuracy (1)	Soil Precision (1)	Soil Resolution (1)	Soil Detail (1)
1	0-10	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
2	10-20	SILT	50	1.5	5	5	1e-07	0.002	0	0	0	0	0	0	0	0	0	0	0
3	20-30	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
4	30-40	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
5	40-50	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
6	50-60	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
7	60-70	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
8	70-80	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
9	80-90	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0
10	90-100	SAND	100	1.7	10	0	1e-08	0.001	0	0	0	0	0	0	0	0	0	0	0

- LEGEND:**
- Kilometre Post indicating distance from Danish landfall
 - Proposed cable route position
 - Chart reading
 - Existing pipeline/cable with identification (database position)
 - International maritime boundary (positions from <http://www.eea.europa.eu/data-and-maps/data/maritime-boundaries>)
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 - Anchor scar
 - Seaweed crest
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 - Linear sonar contact with dimensions in metres (LxWxH)
 - Debris with dimensions in metres (LxWxH)
 - Magnetometer contact with magnitude in nanoteslas
 - Seabed ripple crest
 - Anchor with dimensions in metres (LxWxH)
 - Seabed mound with dimensions in metres (LxWxH)
 - Outcrop with dimensions in metres (LxWxH)
 - Seabed depression
 - Anchor put out pit

- BOULDER CLASSIFICATION**
- Boulders with max. dimension between 0 - 0.8 m
 - Boulders with max. dimension between 0.8 - 1.5 m
 - Boulders with max. dimension greater than 1.5 - 5.0 m
 - Boulders with max. dimension greater than 5.0 m
- PIPELINE / CABLE CROSSING CLASSIFICATION**
- As found pipeline/cable position
 - Pipeline/cable exposure
 - Pipeline/cable trespass
 - Pipeline/cable gravelpit
 - Pipeline/cable matting
 - Reflector
- SHALLOW GEOLOGICAL PROFILE**
- Seabed along route
 - Seabed along line of profile
 - Peak
 - Amplitude anomaly/acoustic blanking (see Note 12)
 - Sub-bottom contact (interbedded pipeline/cable tracts)

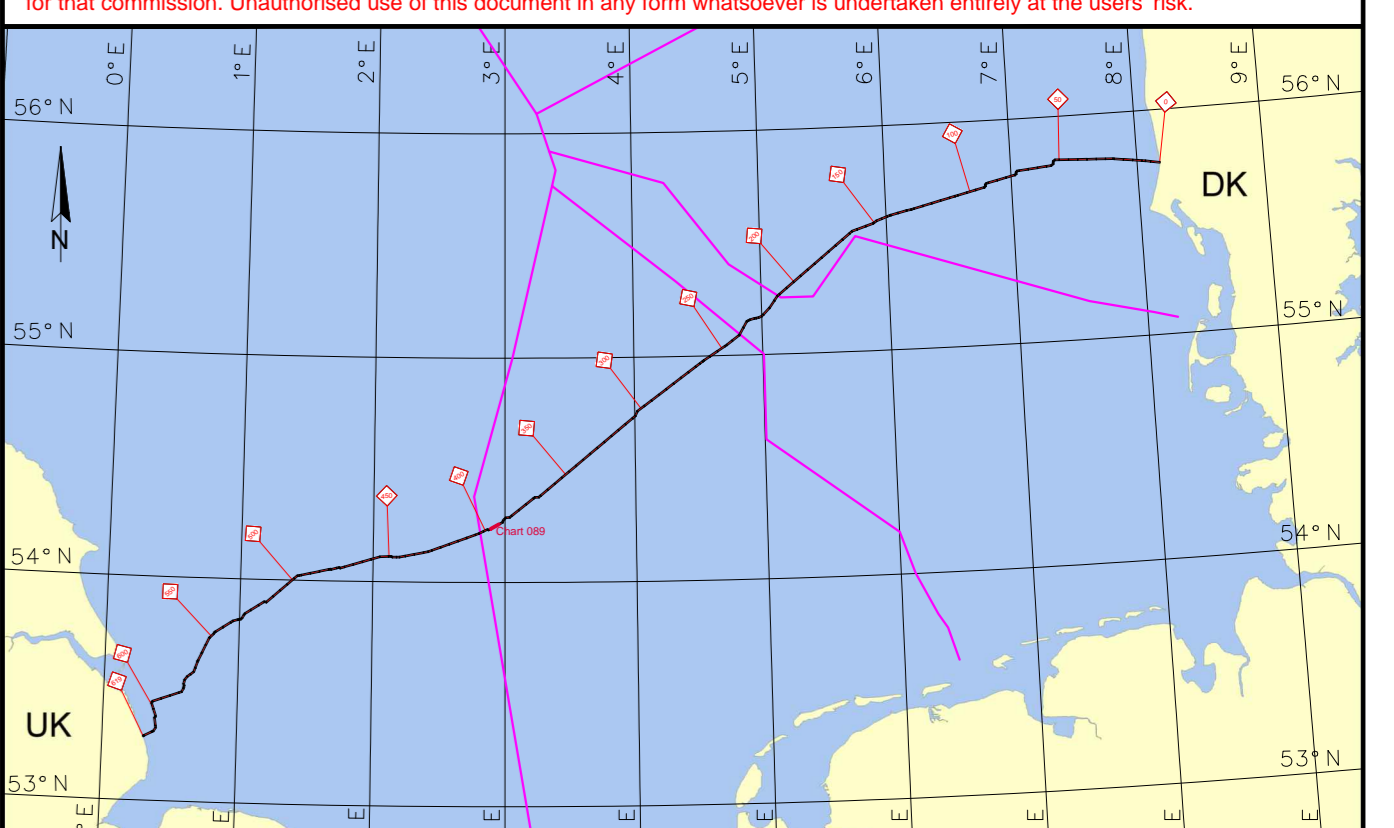
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 - SAND
 - SILT
 - GRAVEL
 - CHALK
 - PEAT
 - Probed penetration
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 - Relative Density [D_r] derived from CPT
 - Relative Density [D_r] derived from CPT [K₀ = 0.5 - 2 / U]

- NOTES:**
- Legend content covers mapping of the entire route; some legend content may not apply to this chart. In exceptional areas annotation has been added to the seabed features panel where legend classifications clash.
 - The interpretation is based on all available data which includes multibeam echo sounder, side scan sonar, profiler, magnetometer, grab sample, vibrocore and CPT. Sub-seabed depth conversion uses an assumed interval velocity of 1600 m/s.
 - Seabed topography and bathymetry are based on BGS and other publicly available reference information, project geotechnical results and in situ observations.
 - All water depths were referenced to Mean Sea Level (MSL), reduced using post-processed GNSS height data. The GNSS height data is reduced to Mean Sea Level (MSL) using DTU3 Geoid reference model. Note the height data is reduced to LAT using a DTU13 to LAT model developed by BLAST (Bring Land And Sea Together) for the North Sea.
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COORDINATE REFERENCE SYSTEM:

Geoid datum: ETRS 89
 Ellipsoid: GRS 80
 Semi-major axis: 6 378 137.000
 Inverse flattening: 298.257222101
 Vertical datum: Lowest Astronomical Tide (LAT)

Projection: Transverse Mercator
 UTM Zone: 31 North
 Central Meridian: 0° East
 Latitude of Origin: 0° North
 False Easting: 500 000 m
 False Northing: 0
 Scale Factor: 0.999 601 718



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 Moorhen Moor Road, Great Yarmouth, Norfolk, NR11 9LJ
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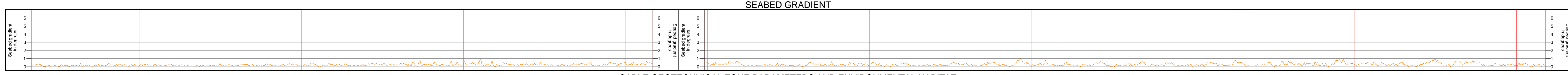
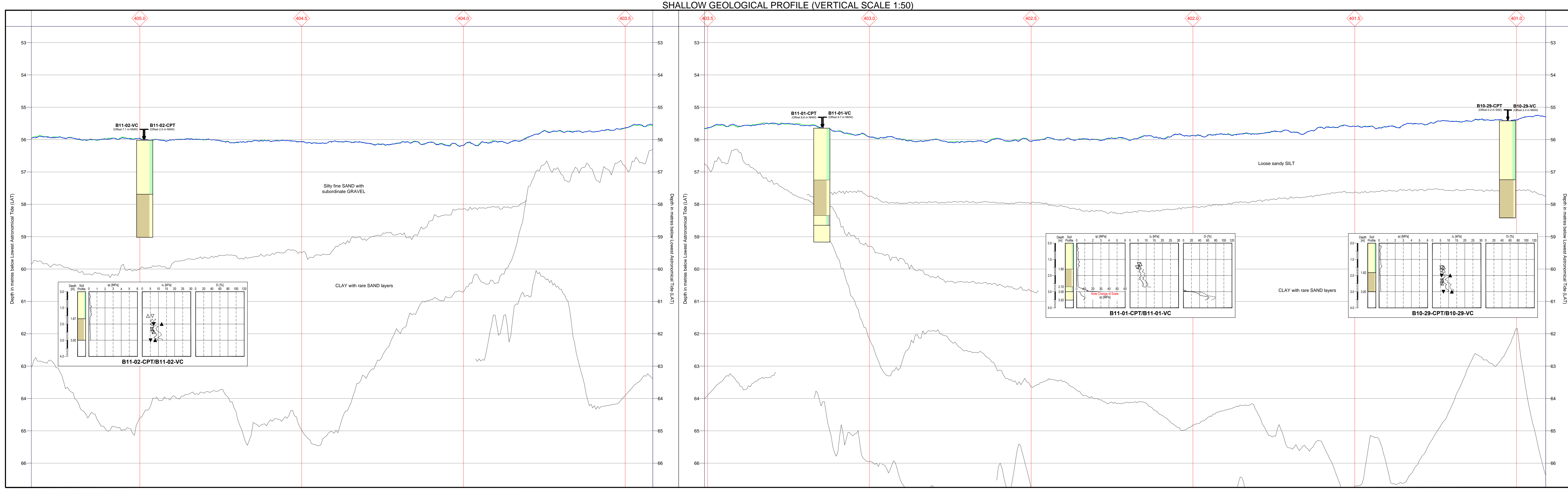
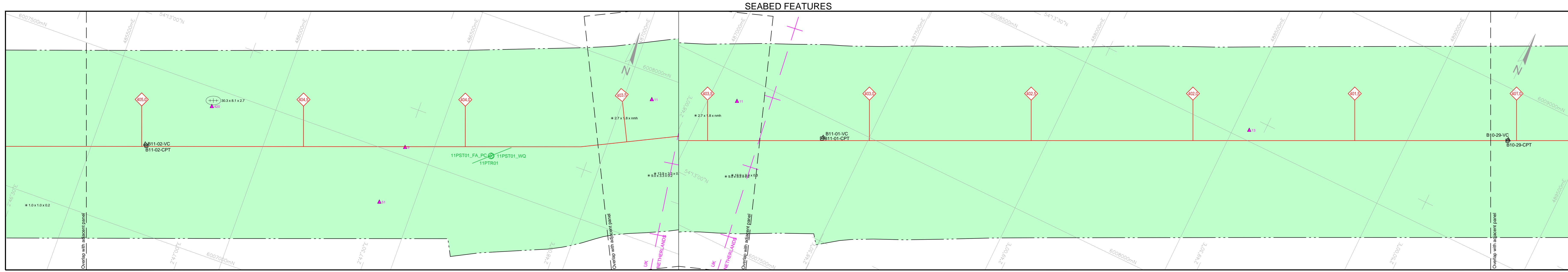
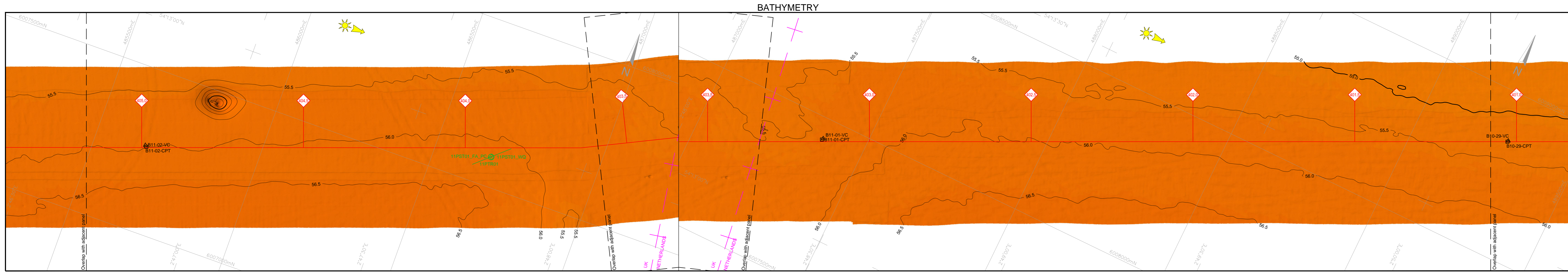
DENMARK TO UK - ROUTE 4v10 LANDFALL 1 ALIGNMENT CHART 089 OF 141

SCALE 1 : 5000

0 250 500 1000 1500 metres

Route:	4v10	Survey Date:	March - September 2016	Project Ref:	J35045
Issue No:	03	Date:	16/12/16	Description:	Final Issue
01	02/12/16	Final Issue	Var.	Var.	Var.
02	02/12/16	Final Issue	Var.	Var.	Var.
01	28/10/16	Draft Issue	Var.	Var.	Var.

Client Ref.: J35045-AL-Chart-089-5k.dwg
 Drawing No.: Chart 089 of 141
 Chart: J35045-AL-Chart-089-5k.dwg
 App.: H



Environmental Issue	AS 331	Environmental Impact
Area of Subsea Structure		Area of Subsea Structure
Area of Interference		Area of Interference
Area of Potential		Area of Potential
Seabed Gradient		Seabed Gradient
Geotechnical Zone	tc	Geotechnical Zone

Zone	Depth (m)	Soil Type	Soil Description	Soil Parameters	Soil Classification	Soil Strength	Soil Modulus	Soil Friction	Soil Cohesion	Soil Permeability	Soil Compressibility	Soil Anisotropy	Soil Heterogeneity	Soil Variability	Soil Uncertainty
1	0 - 10	SAND	Loose sandy silt	...	...	...	...	...	...	...	...	...	...	...	...
2	10 - 20	CLAY	Clay with rare sand layers	...	...	...	...	...	...	...	...	...	...	...	...

LEGEND:

- Kilometer Post indicating distance from Danish landfall
- Proposed cable route position
- Chart contour
- Existing pipeline/cable with identification (database position)
- International maritime boundary (positions from <http://www.eea.europa.eu/data-and-maps/data/maritime-boundaries>)
- Environmental camera transect with identification
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BATHYMETRY

- Depth in metres below Lowest Astronomical Tide (LAT)
- Bathymetric contours at 0.5 m intervals with major contours every 2.5 m (LAT)
- Direction of illumination (direction ZFO°, azimuth 60°)
- Topographic land elevation contour at 1 m interval (relative to LAT)

SEABED FEATURES - Based on bathymetry and side scan sonar interpretation unless stated otherwise

- SAND
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- BEDROCK
- CLAY
- Musical beds
- Area of benthic reef
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- Wreck with dimensions in metres (LxWxH)
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- Area of seabed scour
- Circalittoral mixed sediment
- Area of pitted seabed
- Seabed ripple crest
- Seabed ripple crest
- Seabed round with dimensions in metres (LxWxH)
- Outcrop with dimensions in metres (LxWxH)
- Seabed depression
- Anchor pull out pit
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- Reflector

Geotechnical test summary boxes

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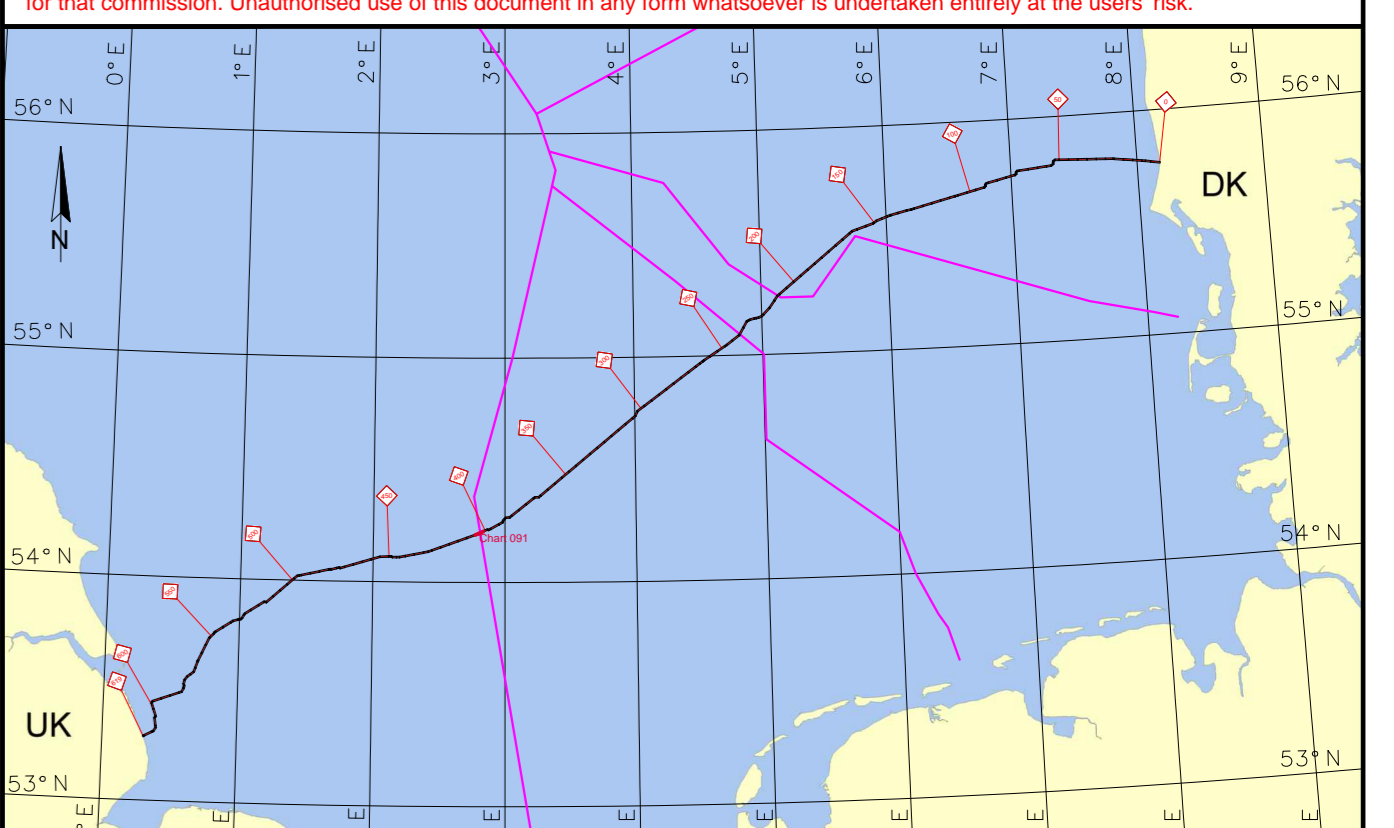
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Inverse flattening: 298.257222101
Vertical datum: Lowest Astronomical Tide (LAT)

Projection: Transverse Mercator
UTM Zone: 31 North
Central Meridian: 0° East
Latitude of Origin: 0° North

False Easting: 500 000 m
False Northing: 0
Scale Factor: 0.9996



nationalgrid
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ENERGINET/DK
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VIKING LINK

DENMARK TO UK - ROUTE 4v10 LANDFALL 1 ALIGNMENT CHART 091 OF 141

SCALE 1 : 5000
0 250 500 metres

Route: 4v10	Survey Date: March - September 2016	Project Ref: J35045				
Issue No:	Date:	Description:	Interp:	Drawn:	Chkd:	Appr:
03	16/12/16	Final Issue	Var.	Var.	Var.	Var.
02	02/12/16	Final Issue	Var.	Var.	Var.	Var.
01	28/10/16	Draft Issue	Var.	Var.	Var.	Var.

Client Ref.: J35045-AL-Chart-091-5k.dwg
Drawing No.: Chart 091 of 141
App.: H