

LEGEND

PROPOSED RAMPION 2 OVF AREA A (ZONE 6 AREA)

PROPOSED RAMPION 2 OVF AREA B (EXTENSION AREA)

PROPOSED RAMPION 2 OVF AREA C (EXPORT CABLE LINK AREA)

PROPOSED RAMPION 2 WIND TURBINE GENERATOR LAYOUT (SOURCE: CLIENT PROVIDED)

EXISTING RAMPION WIND TURBINE GENERATOR LAYOUT (SOURCE: CLIENT PROVIDED)

EXISTING RAMPION WIND FARM CABLE (SOURCE: CLIENT PROVIDED)

EXISTING RAMPION SURVEY AREA (SOURCE: CLIENT PROVIDED)

CABLE (SOURCE: CLIENT PROVIDED)

>10

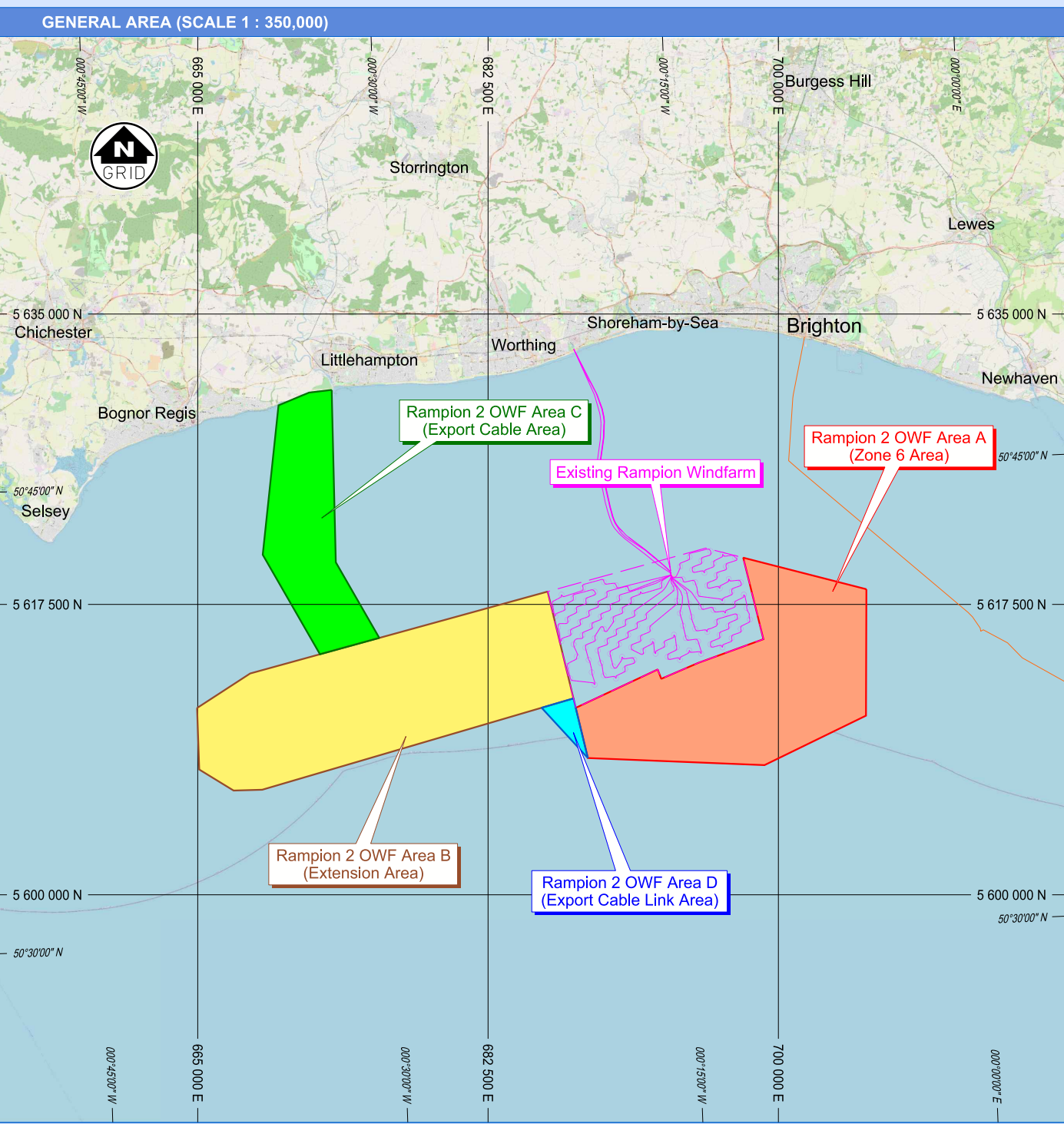
7.5

5.0

2.50.0

SEABED GRADIENT

NOTES

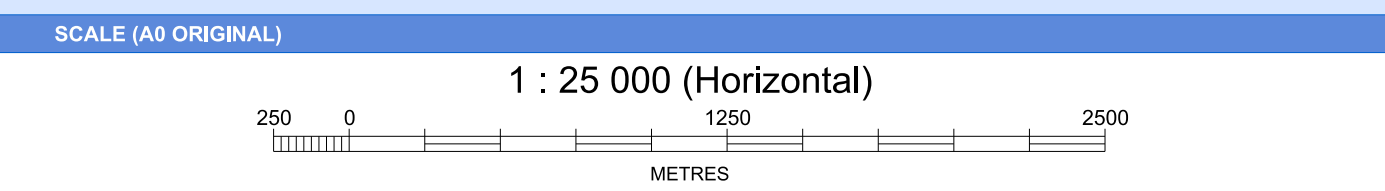


GEODEIC REFERENCE SYSTEM

GEODEIC DATUM:	WGS84
ELLIPSOID:	WGS84
PROJECTION:	UTM ZONE 30 N (CENTRAL MERIDIAN 3° W)

SURVEY INFORMATION

SURVEY VESSEL:	M.V. VIGILANT	M.V. OCEAN OBSERVER
SURVEY DATE:	16-SEP-2020 TO 14-OCT-2020	16-SEP-2020 TO 14-OCT-2020
POSITIONING SYSTEM:	OCEANERRING CANAV DGNSS	FURIO STAFFX DGNSS
NAVIGATION SYSTEM:	SCHNEIDER RANGER USBL	SCHNEIDER RANGER USBL
ECHO SOUNDER MULTIBEAM SYSTEM:	VOYAGER S	VOYAGER S
ECHO SOUNDER SINGLE-BEAM SYSTEM:	SIMRAD EK600	SIMRAD EK600
SIDE SCAN SONAR:	EDGETECH 400PS	EDGETECH 400PS
MAGNETOMETER:	GEOMETRICS G82	GEOMETRICS G82
SUB-BOTTOM PROFILER:	GEACOUSTICS PRIMER	GEACOUSTICS PRIMER
ULTRA-HIGH RESOLUTION SEISMIC (UHRIS):		1 x 700m T.I. SEEDIE GUN
		75m TELEDRYNE STREAMER



TITLE

SURVEY CONTRACTOR

Gardline

GARDLINE LIMITED

ENDAVOUR HOUSE, ADMIRALTY ROAD, GREAT YARMOUTH, NORFOLK NR3 2NG, ENGLAND

TELEPHONE: +44 (0) 1493 84600 FAX: +44 (0) 1493 85150 WEBSITE: WWW.GARDLINE.COM

CLIENT

RWE

The energy to lead

PROJECT TITLE

RAMPION 2 OFFSHORE WINDFARM DEVELOPMENT

GEOPHYSICAL SITE SURVEY FOR AREA A

DRAWING TITLE

SEABED GRADIENT

CHART 7

REVISION

REV.	DATE	TITLE	DESCRIPTION	AUTHOR	DRAWN	CHECKED	APPROVED
0	16-DEC-2020	DRAFT	FIRST ISSUE FOR CLIENT REVIEW. PDF ONLY	MC	JS	MC	DIG

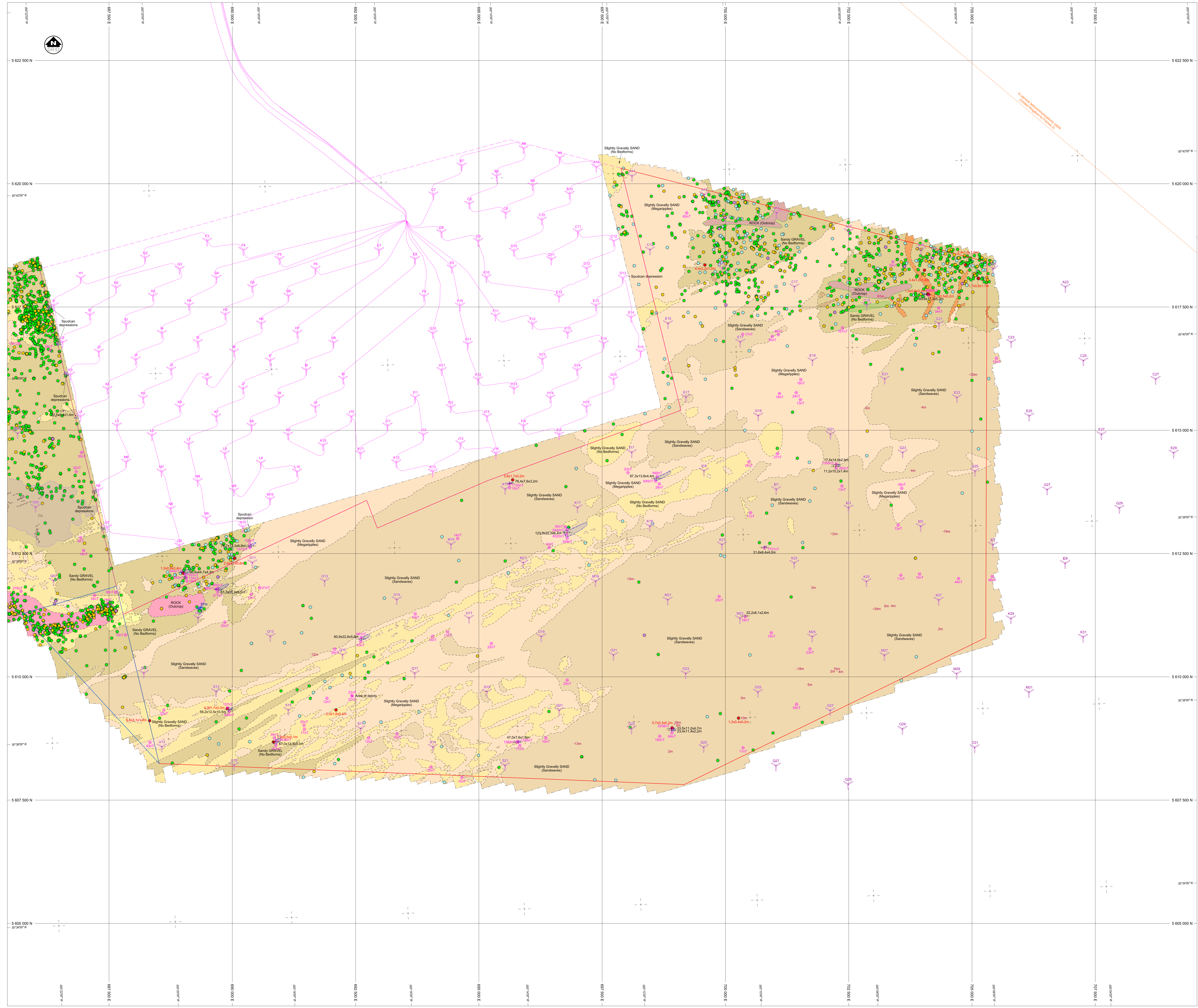
CLIENT REFERENCE

REPORT REFERENCE

11021.2

DRAWING NUMBER

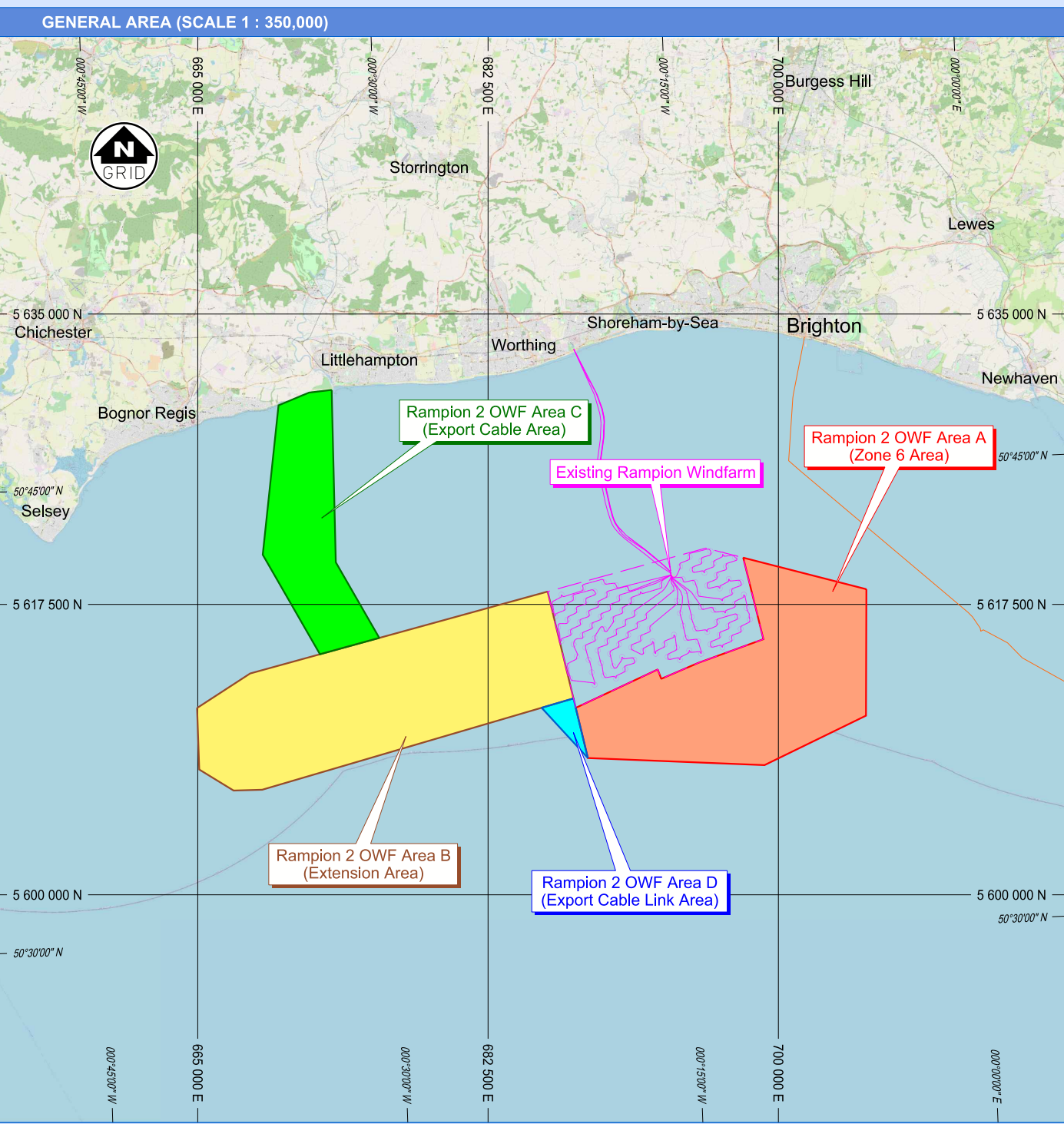
11021.2.07



LEGEND

- PROPOSED RAMPION 2 OVF AREA A (ZONE 5 AREA)
- PROPOSED RAMPION 2 OVF AREA B (EXTENSION AREA)
- PROPOSED RAMPION 2 OVF AREA C (EXPORT CABLE LINK AREA)
- PROPOSED RAMPION 2 WIND TURBINE GENERATOR LAYOUT (SOURCE: CLIENT PROVIDED)
- EXISTING RAMPION WIND TURBINE GENERATOR LAYOUT (SOURCE: CLIENT PROVIDED)
- EXISTING RAMPION SURVEY AREA (SOURCE: CLIENT PROVIDED)
- CABLE (SOURCE: CLIENT PROVIDED)
- SAND (MEGARIPPLED)
- SLIGHTLY GRAVELLY SAND (NO BEDFORMS)
- SLIGHTLY GRAVELLY SAND (MEGARIPPLED)
- SLIGHTLY GRAVELLY SAND (SAND WAVES)
- SANDY GRAVEL (NO BEDFORMS)
- SANDY GRAVEL (MEGARIPPLED)
- SANDY GRAVEL (CHANNELLING)
- ROCK (OUTCROP)
- AREA OF NUMEROUS BOULDERS
- AREA OF DEBRIS
- AREA OF SCOUR
- AREA OF POSSIBLE HEAVILY SCARRED DREDGING EXTRACTION
- BOULDER WITH HEIGHT 0.1-0.2 METRES
- BOULDER WITH HEIGHT 0.3-0.5 METRES
- BOULDER WITH HEIGHT GREATER THAN 1.0 METRES
- DEBRIS WITH DIMENSIONS IN METRES (LxWxH)
- MAGNETOMETER ANOMALY WITH FIELD STRENGTH IN nT
- WRECK WITH DIMENSIONS IN METRES (LxWxH)
- LINEAR DEBRIS WITH LENGTH IN METRES
- FISHING POT
- LINEAR FISHING GEAR WITH LENGTH IN METRES
- LIMIT OF SIDE SCAN SONAR COVERAGE

NOTES

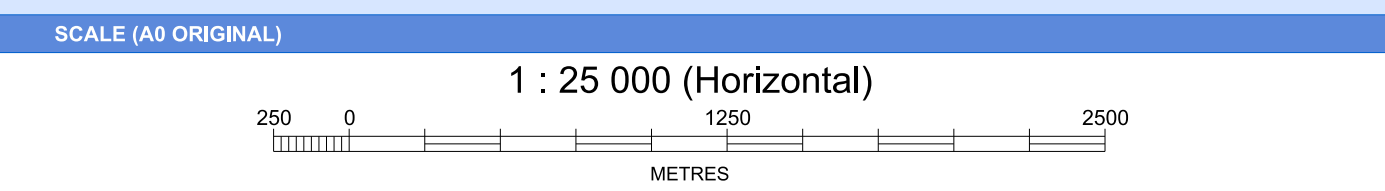


GEODETIC REFERENCE SYSTEM

GEODETIC DATUM:	WGS84
ELLIPSOID:	WGS84
PROJECTION:	UTM ZONE 30 N (CENTRAL MERIDIAN 3° W)

SURVEY INFORMATION

SURVEY VESSEL:	M.V. VILANT	M.V. OCEAN OBSERVER
SURVEY DATE:	16-SEP-2020 TO 19-AUG-2020	16-SEP-2020 TO 19-AUG-2020
POSITIONING SYSTEM:	OCEANERRING CANAV DGNSS	FURIO STAFFX DGNSS
NAVIGATION SYSTEM:	SONARONE RANGER USBL	SONARONE RANGER USBL
EDCH SOUNDER MULTIBEAM SYSTEM:	VOYAGER S	VOYAGER S
EDCH SOUNDER SINGLE-BEAM SYSTEM:	SMR400 EASD	SMR400 EASD
SIDE SCAN SONAR:	SMR400 EASD	SMR400 EASD
MAGNETOMETER:	EDGE TECH 400PS	EDGE TECH 400PS
SUB-BOTTOM PROFILER:	GEOMETRICS G82	GEOMETRICS G82
ULTRA-HIGH RESOLUTION SEISMIC (UHR):	GEOMETRICS PRIMER	GEOMETRICS PRIMER



TITLE

SURVEY CONTRACTOR

Gardline

GARDLINE LIMITED
ENDCAVOUR HOUSE, ADMIRALTY ROAD, GREAT YARMOUTH, NORFOLK NR3 2NG, ENGLAND
TELEPHONE: 44 (0) 1493 846600 FAX: 44 (0) 1493 847650 WEBSITE: WWW.GARDLINE.COM

CLIENT

RWE
The energy to lead

PROJECT TITLE

**RAMPION 2 OFFSHORE WINDFARM DEVELOPMENT
GEOPHYSICAL SITE SURVEY FOR AREA A**

DRAWING TITLE

SEABED FEATURES

CHART 8

REVISION

REV.	DATE	TITLE	DESCRIPTION	AUTHOR	DRAWN	CHECKED	APPROVED
0	16-DEC-2020	DRAFT	FIRST ISSUE FOR CLIENT REVIEW. PDF ONLY	CT	JS	MC	DIG

CLIENT REFERENCE

REPORT REFERENCE 11021.2

DRAWING NUMBER 11021.2.08