

MONA OFFSHORE WIND PROJECT

Environmental Statement

**Volume 7, Annex 6.6: Tree survey and arboricultural impact assessment
Part 4 - Appendix B**

Reference Number: MOCNS-J3303-RPS-10191

Document Reference: F7.6.6

APFP Regulations: 5(2)(a)

February 2024

F01



Image of an offshore wind farm

MONA OFFSHORE WIND PROJECT

Document status					
Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
F01	Application	RPS	Mona Offshore Wind Limited	Mona Offshore Wind Limited	Feb 2024
Prepared by:		Prepared for:			
RPS		Mona Offshore Wind Ltd.			



LEGEND

Survey boundary.

T1

Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree
quality category as shown below.
= Tree details estimate (inaccessible tree)
+ = Tree in off site location

G1

Vegetation group with numbered reference.
Canopy extents and coloured BS5837:2012
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H1

Hedge with numbered reference.
Canopy extents and coloured BS5837:2012
tree quality category as shown below.

W1

Woodland with numbered reference.
Canopy extents and coloured BS5837:2012
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Trees Quality Categories - Table 1

BS 5837:2012

Category A - High quality

Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

Direction of first significant branch

Root protection area (RPA)
Calculated in accordance with Section
4.6 - BS5837:2012

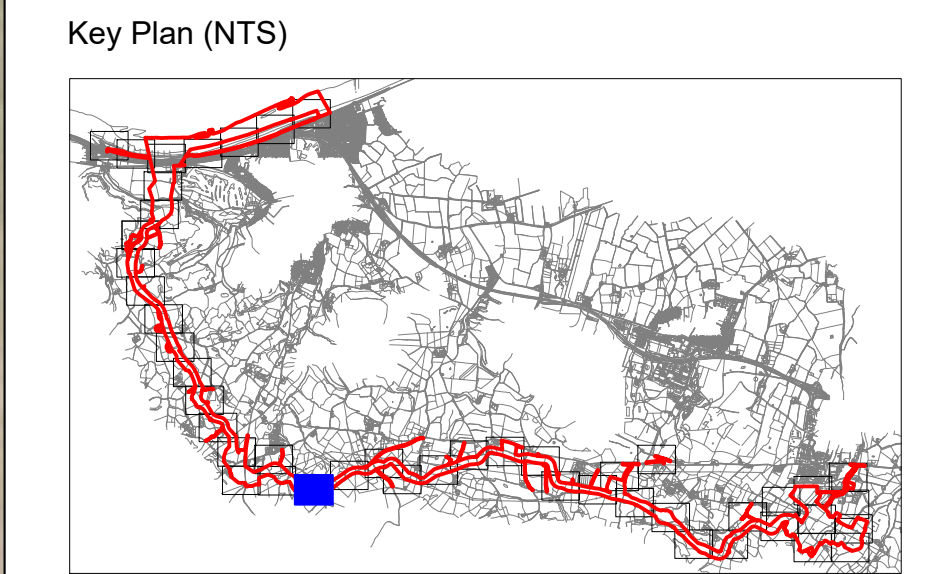
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Denbighshire Tree Preservation Order
(TDO). Bracketted number reference relates
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Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by
Natural Resource Wales)

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(15m offset, as per Natural Resource Wales
ancient woodland inventory, via open data
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NOTES:

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Drawing Number:

722

Project Name:

MONA OFFSHORE WIND PROJECT

Drawing Title:

TREE SURVEY PLAN

Scale

Scale@A0: 1:500

50m

Geodetic Information:

Datum: ETRS 1989

Projection: British National Grid

Data Sources:

Client

Service Layer Credits:

Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC



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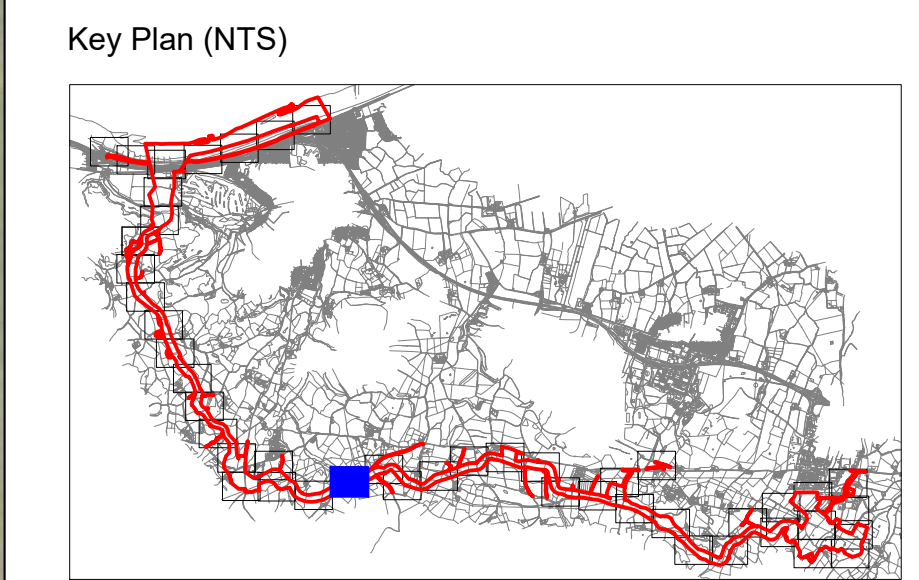
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EnBW

Partners in UK offshore wind

bfc

RPS

Drawing Number:

723

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC



LEGEND

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Key Plan (NTS)

Partners in UK offshore wind

Drawing Number:

725

VER	DATE	DETAILS	BY	CHECK
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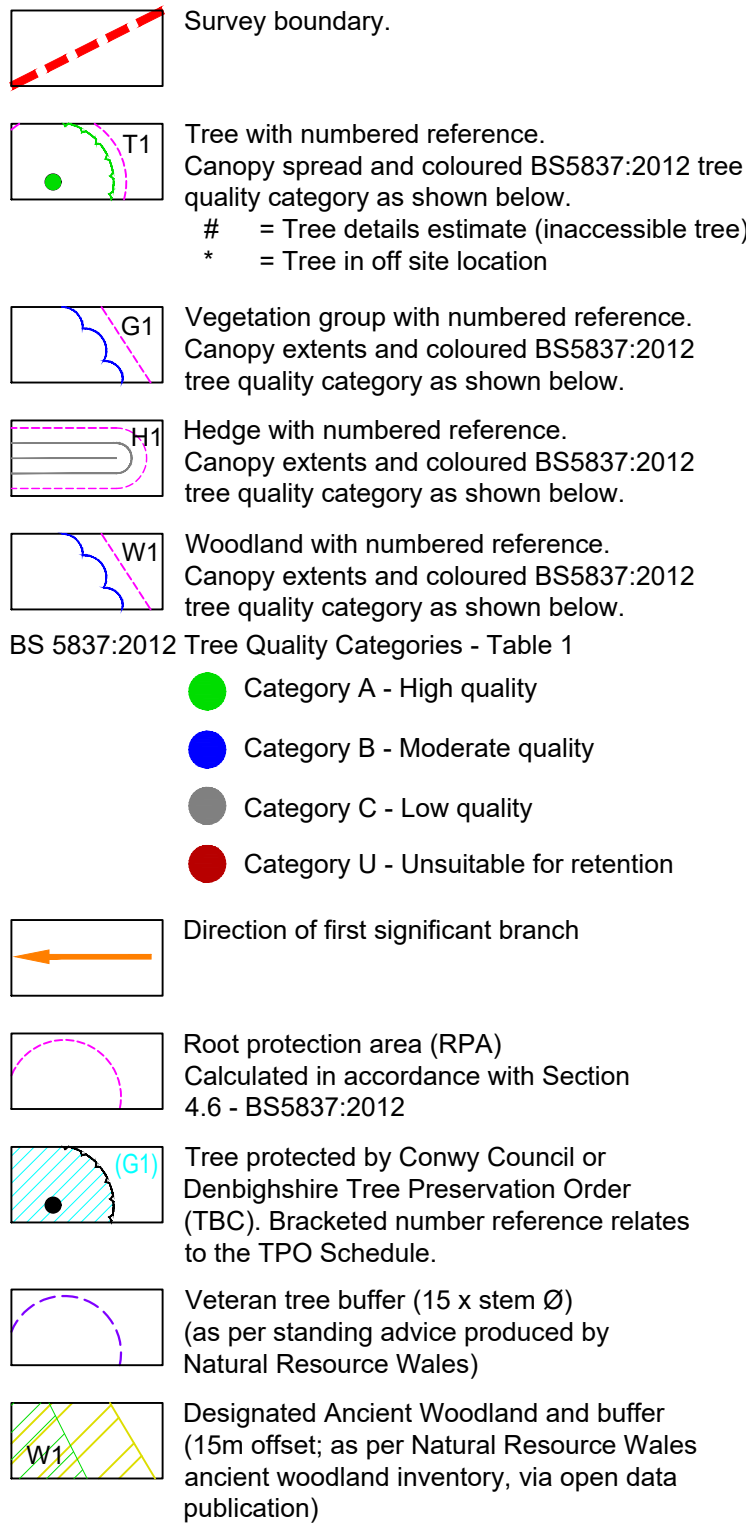
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P:\3990-Series\JSL3999 - Morgan and Monie OMF\Arboriculture\Tech\ACAD\Current\JSL3999_701-743A.TCP Cable Route.dwg



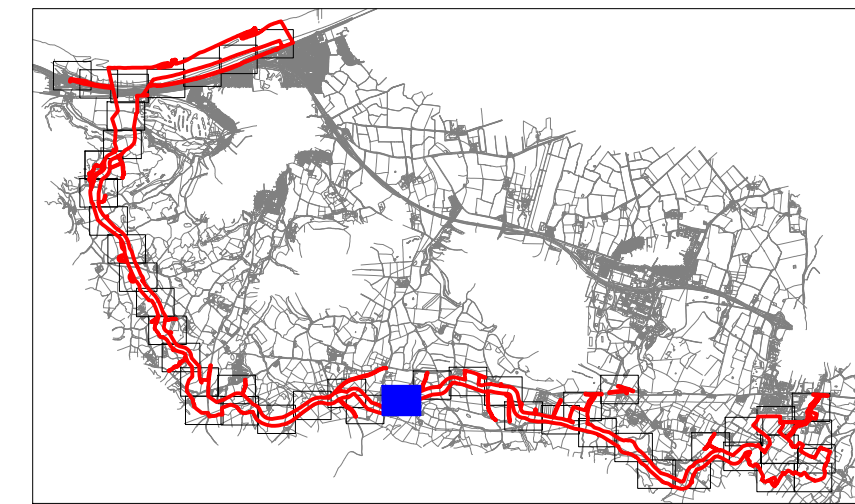
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LEGEND



- NOTES:**
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Drawing Number:


726

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE SURVEY PLAN

Scale
Scale@A0: 1:500

A horizontal scale bar with alternating black and white segments. It is labeled '0' at the left end and '50m' at the right end.

Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid

Data Sources: Client

Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



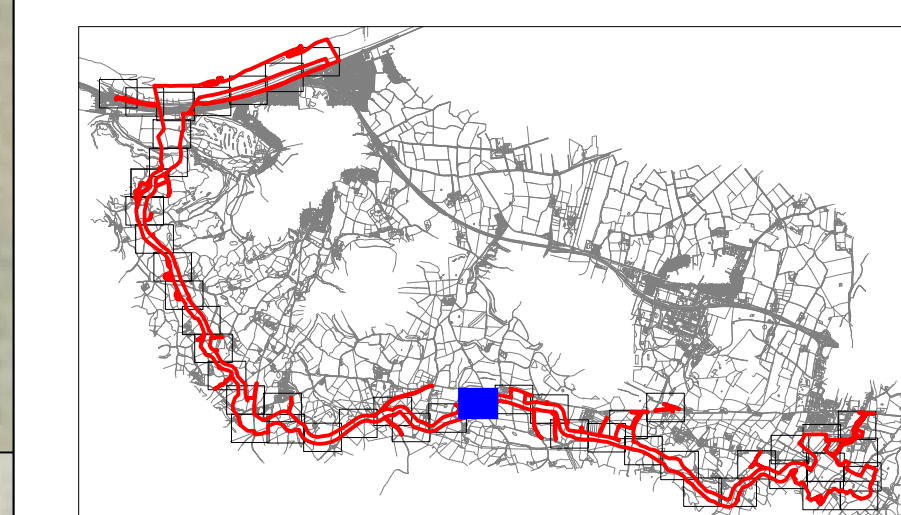
LEGEND

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- Figure 1: Map of the study area showing the distribution of tree quality categories and vegetation groups. The map includes a survey boundary, tree quality categories (T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T68, T69, T70, T71, T72, T73, T74, T75, T76, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94, T95, T96, T97, T98, T99, T100), vegetation groups (G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, G21, G22, G23, G24, G25, G26, G27, G28, G29, G30, G31, G32, G33, G34, G35, G36, G37, G38, G39, G40, G41, G42, G43, G44, G45, G46, G47, G48, G49, G50, G51, G52, G53, G54, G55, G56, G57, G58, G59, G60, G61, G62, G63, G64, G65, G66, G67, G68, G69, G70, G71, G72, G73, G74, G75, G76, G77, G78, G79, G80, G81, G82, G83, G84, G85, G86, G87, G88, G89, G90, G91, G92, G93, G94, G95, G96, G97, G98, G99, G100), and a legend for tree quality categories (A, B, C, U) and vegetation groups (G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, G21, G22, G23, G24, G25, G26, G27, G28, G29, G30, G31, G32, G33, G34, G35, G36, G37, G38, G39, G40, G41, G42, G43, G44, G45, G46, G47, G48, G49, G50, G51, G52, G53, G54, G55, G56, G57, G58, G59, G60, G61, G62, G63, G64, G65, G66, G67, G68, G69, G70, G71, G72, G73, G74, G75, G76, G77, G78, G79, G80, G81, G82, G83, G84, G85, G86, G87, G88, G89, G90, G91, G92, G93, G94, G95, G96, G97, G98, G99, G100).

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Key Plan (NTS)



Drawing Number:

727

VER	DATE	DETAILS	BY	CHE
01	Jan/24	Comment	RC	DC



LEGEND

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Direction of first significant branch

Root protection area (RPA)
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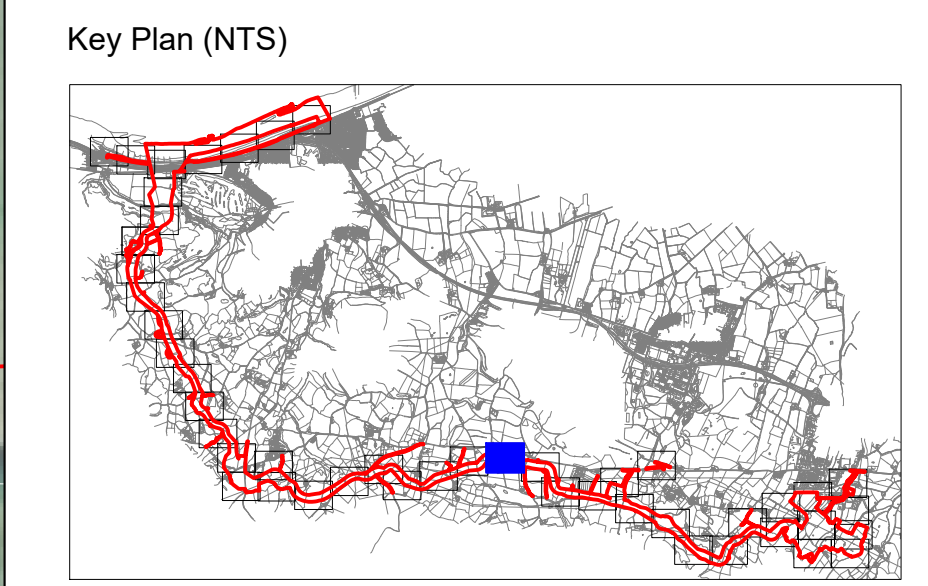
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728

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MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE SURVEY PLAN

Scale
Scale@A0: 1:500
0 50m

Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid

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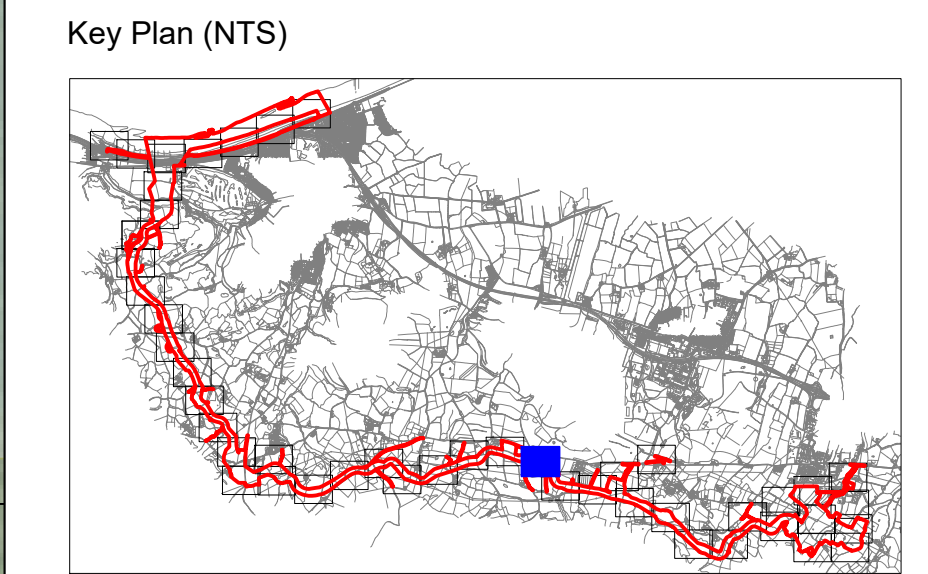
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Partners in UK offshore wind

Drawing Number:				
729				
VER	DATE	DETAILS	BY	CHECK
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P:\3900 Series\JSL3999 - Morgan and Mone OMF\Arboriculture\Tech\ACAD\Current\JSL3999_701-743A.TCP Cable Route.dwg

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Key Plan (NTS)

Partners in UK offshore wind

Drawing Number:

730

VER	DATE	DETAILS	BY	CHECK
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Partners in UK offshore wind

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731

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P:\3990 Series\USL3999 - Morgan and Mone OMF\Arboriculture\Tech\ACAD\Current\USL3999_731-743A.TCP Cable Route.dwg
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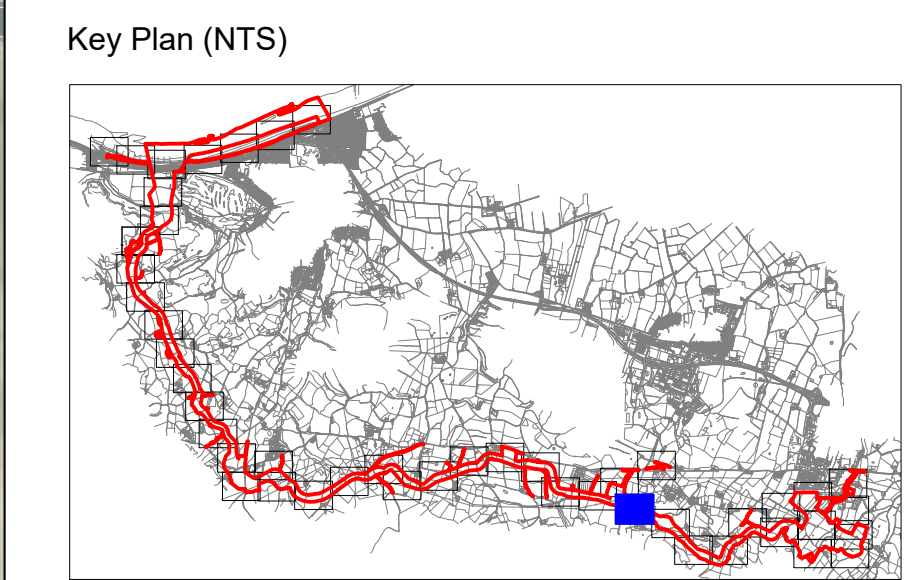
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733

<div>Project Name:</div> <div>MONA OFFSHORE WIND PROJECT</div> <div>P:\3000 Series\USL 3009 - Mona and Monea OWE\Architectural\Tech\ACAD\Current\USL 3009 - 701-743A TCP Cable Route.dwg</div>	<div>Drawing Title:</div> <div>TREE SURVEY PLAN</div>	<div>Scale</div> <div>Scale@A0: 1:500</div> <div><div>050m</div></div>	<div>Geodetic Information:</div> <div>Datum: ETRS 1989</div> <div>Projection: British National Grid</div>	<div>Data Sources:</div> <div>Client</div>	<div>Service Layer Credits:</div> <div>Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community</div>	VER	DATE	DETAILS	BY	CHEC
						01	Jan/24	Comment	RC	DC



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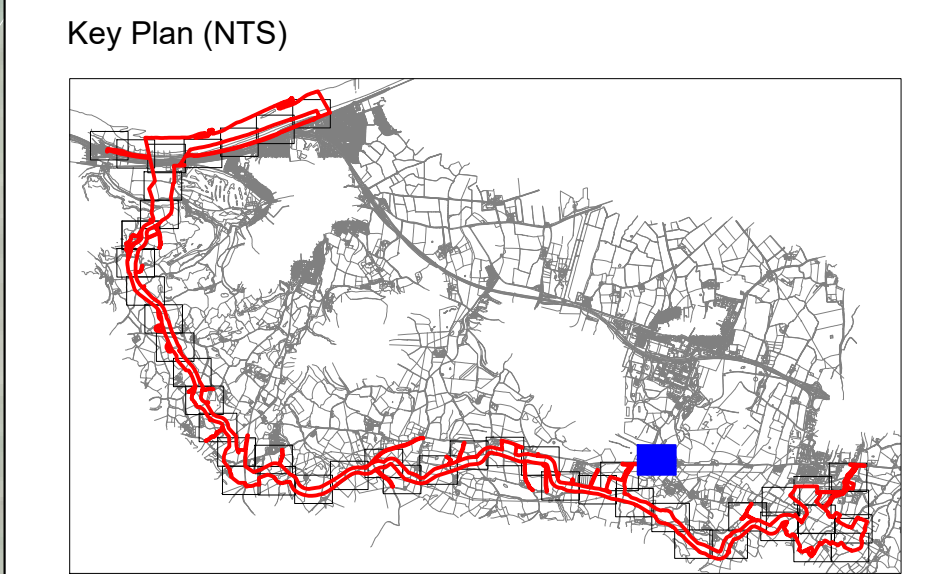
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Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by Natural Resource Wales)

Designated Ancient Woodland and buffer (15m offset; as per Natural Resource Wales ancient woodland inventory, via open data publication)

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
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Partners in UK offshore wind

Drawing Number:

734

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC

P:\3900 Series\JLS3999 - Morgan and Monie OMF\Arboriculture\Tech\ACAD\Current\JLS3999_701-743A.TCP Cable Route.dwg

P:\3900 Series\JLS3999 - Morgan and Monie OMF\Arboriculture\Tech\ACAD\Current\JLS3999_701-743A.TCP Cable Route.dwg



LEGEND

Survey boundary.

F1

Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree
quality category as shown below.
= Tree details estimate (inaccessible tree)
+ = Tree in off site location

G1

Vegetation group with numbered reference.
Canopy extents and coloured BS5837:2012
tree quality category as shown below.

H1

Hedge with numbered reference.
Canopy extents and coloured BS5837:2012
tree quality category as shown below.

W1

Woodland with numbered reference.
Canopy extents and coloured BS5837:2012
tree quality category as shown below.

BS 5837:2012

Trees Quality Categories - Table 1

Category A - High quality

Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

Direction of first significant branch

Root protection area (RPA)
Calculated in accordance with Section
4.6 - BS5837:2012

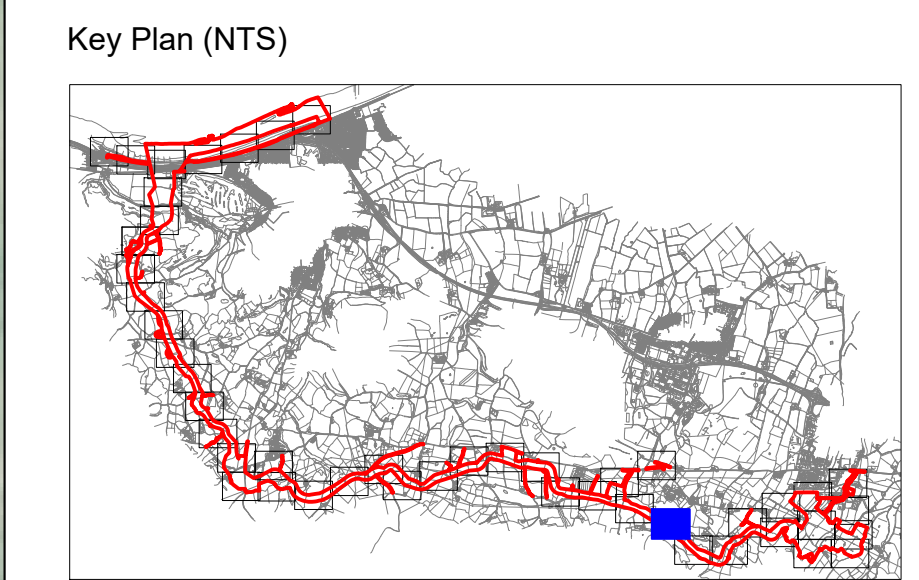
Tree protected by Conwy Council or
Denbighshire Tree Preservation Order
(TDO). Bracketted number reference relates
to the TPO Schedule.

Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by
Natural Resource Wales)

Designated Ancient Woodland and buffer
(15m offset; as per Natural Resource Wales
ancient woodland inventory, via open data
publication)

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
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Drawing Number:

735

Project Name: MONA OFFSHORE WIND PROJECT		Drawing Title: TREE SURVEY PLAN		Scale Scale@A0: 1:500 		Geodetic Information: Datum: ETRS 1989 Projection: British National Grid		Data Sources: Client		Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community		VER	DATE	DETAILS	BY	CHECK
												01	Jan/24	Comment	RC	DC



LEGEND

Survey boundary.

Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
+ = Tree in off site location

Vegetation group with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Hedge with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Woodland with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.
BS 5837:2012
Tree Quality Categories - Table 1

Category A - High quality

Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

Direction of first significant branch

Root protection area (RPA)
Calculated in accordance with Section 4.6 - BS5837:2012

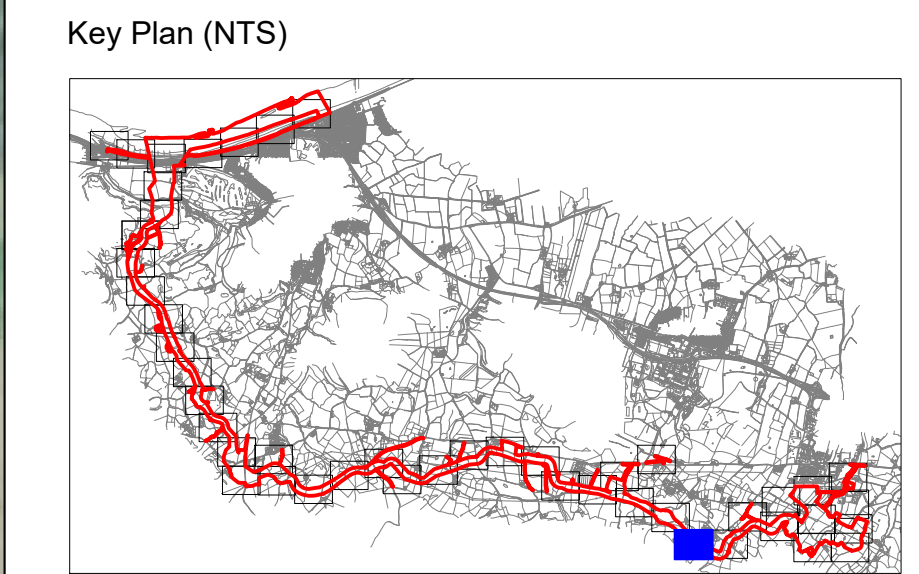
Tree protected by Cornway Council or Denbighshire Tree Preservation Order (TPO). Bracketted number reference relates to the TPO Schedule.

Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by Natural Resource Wales)

Designated Ancient Woodland and buffer (15m offset, as per Natural Resource Wales ancient woodland inventory, via open data publication)

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
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Drawing Number:

736

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE SURVEY PLAN

Scale
Scale@A0: 1:500

Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid

Data Sources: Client

Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC



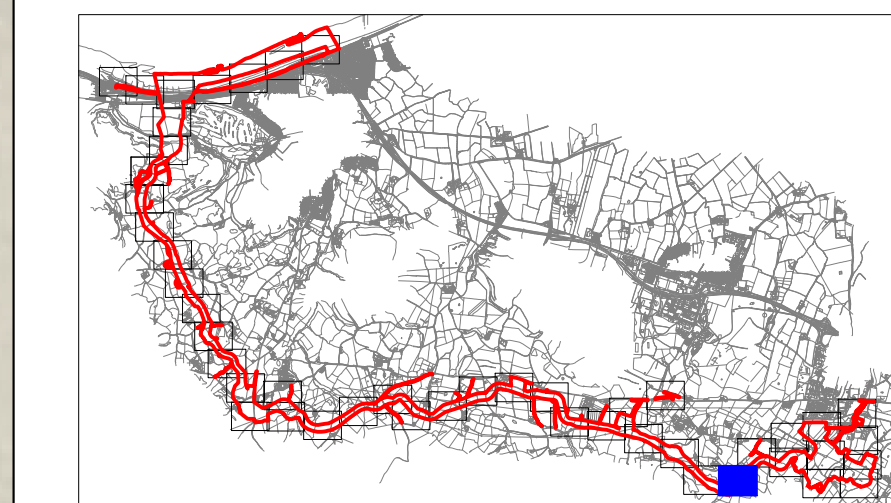
LEGEND

-
- Figure 1** Map of the study area showing the location of the BS5837-2012 tree quality categories. The map includes a legend with symbols for Survey boundary, Tree with numbered reference, Tree quality categories (A, B, C, U), Vegetation group with numbered reference, Canopy extents, Woodland with numbered reference, BS 5837-2012 Tree Quality Categories - Table 1, Direction of first significant branch, Root protection area (RPA), and Tree protected by Conwy Council or Denbighshire Tree Preservation Order.

NOTES

- Refer to DPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
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Key Plan (NTS)



Drawing Number:

737

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC



LEGEND

Survey boundary.

Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
+ = Tree in off site location

Vegetation group with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Hedge with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Woodland with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

BS 5837:2012
Trees Quality Categories - Table 1

Category A - High quality

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Category C - Low quality

Category U - Unsuitable for retention

Direction of first significant branch

Root protection area (RPA)
Calculated in accordance with Section 4.6 - BS5837:2012

Tree protected by Conway Council or Denbighshire Tree Preservation Order (TPO). Bracketted number reference relates to the TPO Schedule.

Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by Natural Resource Wales)

Designated Ancient Woodland and buffer (15m offset; as per Natural Resource Wales ancient woodland inventory, via open data publication)

NOTES:

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Key Plan (NTS)

Partners in UK offshore wind

Drawing Number:

738

VER	DATE	DETAILS	BY	CHECK
01	Jan/24	Comment	RC	DC



LEGEND

Survey boundary.

T1

Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
+ = Tree in off site location

G1

Vegetation group with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

H1

Hedge with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

W1

Woodland with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.

BS 5837:2012

Tree Quality Categories - Table 1

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Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

Direction of first significant branch

Root protection area (RPA)
Calculated in accordance with Section 4.6 - BS5837:2012

G1

Tree protected by Conway Council or Denbighshire Tree Preservation Order (TDO). Bracketted number reference relates to the TPO Schedule.

Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by Natural Resource Wales)

W1

Designated Ancient Woodland and buffer (15m offset; as per Natural Resource Wales ancient woodland inventory, via open data publication)

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
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Key Plan (NTS)

EnBW

Partners in UK offshore wind

bfc

RPS

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE SURVEY PLAN

Scale
Scale@A0: 1:500
0 50m

Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid

Data Sources: Client

Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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01	Jan/24	Comment	RC	DC

