

MONA OFFSHORE WIND PROJECT

Tree Survey Clarification Note: Appendix 17.7 Updated Tree and Hedgerow Protection Plan Part 2

Deadline: 3

Application Reference: EN010137

Document Reference: S_D3_17.7

Document Number: MOCNS-J3303-RPS-10334

30 September 2024

F01



Image of an offshore wind farm

Document status

Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
F01	Submission at Deadline 3	RPS	Mona Offshore Wind Ltd.	Mona Offshore Wind Ltd.	30 September 2024

Prepared by:

RPS

Prepared for:

Mona Offshore Wind Ltd.

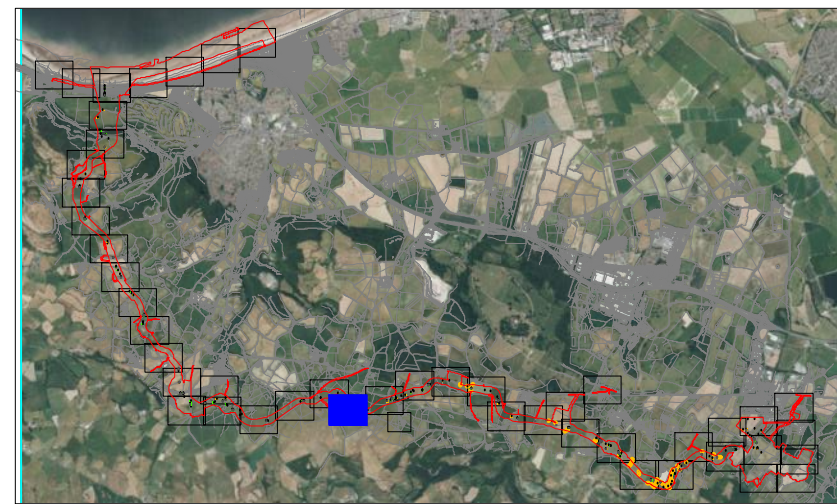


LEGEND

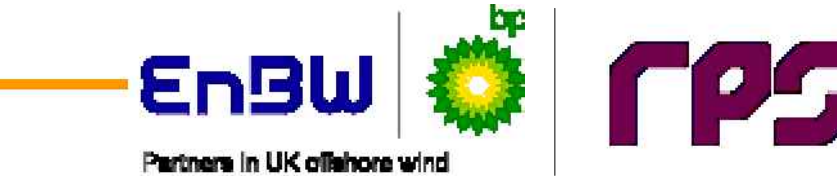
- Ground Development Area
(M0_PRL_SF_0162_000_Rv11)
- Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
+ = Tree in off site location
- Vegetation group with numbered reference.
Canopy extents and coloured 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
- Tree or vegetation to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
- Root protection area (RPA)
Calculated in accordance with Section 4.6 - BS5837:2012
- Precautionary Root protection area (RPA)
previously added to un-surveyed trees.
Shown for reference.
- Tree protected by Conwy Council or Denbighshire Tree Preservation Order (TPO). Bracketed 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 woodland inventory, via open data publication)
- Arboricultural BRAG Assessment
Based on quantitative and professional assessment.
The ranking is defined as:
- Black: Significant arboreal asset within development;
- Red: High potential to constrain development;
- Amber: Moderate potential to constrain development; and
- Green: Low potential to constrain development
- Construction Compound or Access Area
Arboricultural constraint based on providing a construction exclusion zone (CEZ):
- Black: At all times, compound should avoid entering this area;
- Red: In heavy all circumstances, compound should avoid entering this area;
- Amber: In most circumstances, compound should avoid entering this area;
- Green: Little or no arboricultural constraint which would affect compound location.
- Cable Crossing Technique with numbered reference
- Trenchless
- Trenching / Trenchless
- Trenched
- Indicative temporary protective fencing in accordance with Section 6.2 - BS5837:2012
See example, also shown within supporting report.
- Indicative temporary visual warning barrier.
See example detail, also shown within supporting report.

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'.
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- All works to conform with requirements of:
BS 5838:2010 - Tree Works
BS 5837:2012 - Trees in relation to design, demolition and construction



Rev	Description	By	CB	Date



Drawing Number:

7125

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

Project Name:
MONA OFFSHORE WIND PROJECT

TREE AND HEDGEROW PROTECTION
Drawing Title

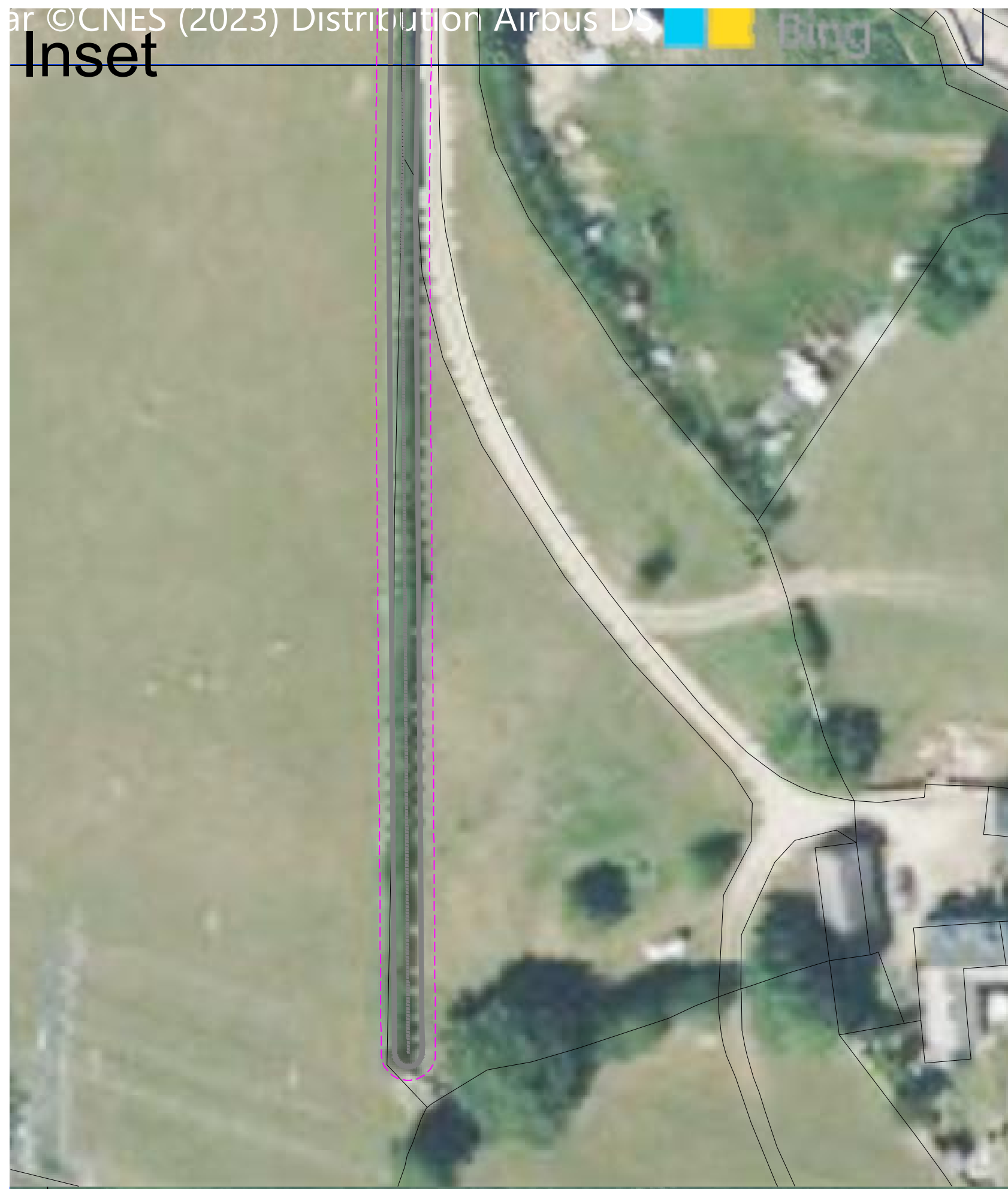
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Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid

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

Grass Development Area
(NO_PRL_BP_0182_D00_Rv11)

Tree with numbered reference.
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• = Tree in off site location

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

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Woodland with numbered reference.
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BS 5837:2012 Tree Quality Categories - Table 1

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Root protection area (RPA)
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Precautionary Root protection area (RPA)
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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 woodland inventory, via open data publication)

Arboricultural BRAG Assessment
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- Amber: Moderate potential to constrain development; and
- Green: Low potential to constrain development

Construction Compound or Access Area
Arboricultural constraint based on providing a construction exclusion zone (CEZ):

- Black: At all times, compound should avoid entering this area;
- Red: In nearly all circumstances, compound should avoid entering this area;
- Amber: In most circumstances, compound should avoid entering this area;
- Green: Little or no arboricultural constraint which would affect compound location.

Cable Crossing Technique with numbered reference

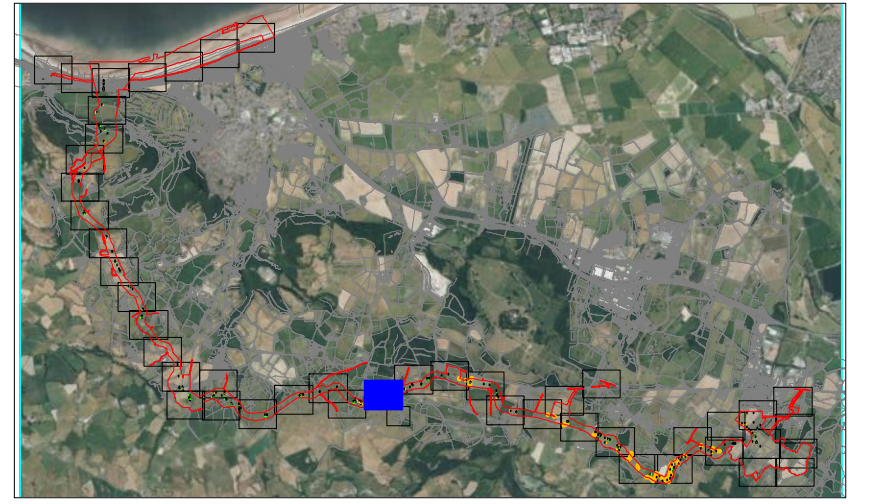
- Trenchless
- Trenching / Trenchless
- Trenched

Indicative temporary protective fencing in accordance with Section 6.2 - BS5837:2012
See example, also shown within supporting report.

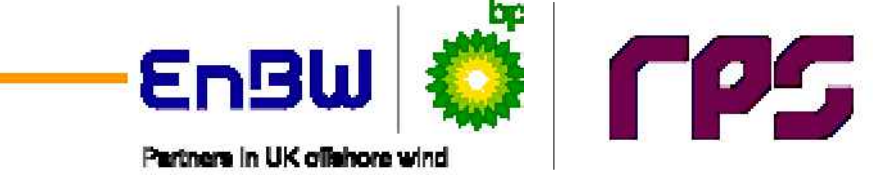
Indicative temporary visual warning barrier.
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Rev	Description	By	CB	Date



Drawing Number:

7126

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE AND HEDGEROW PROTECTION PLAN

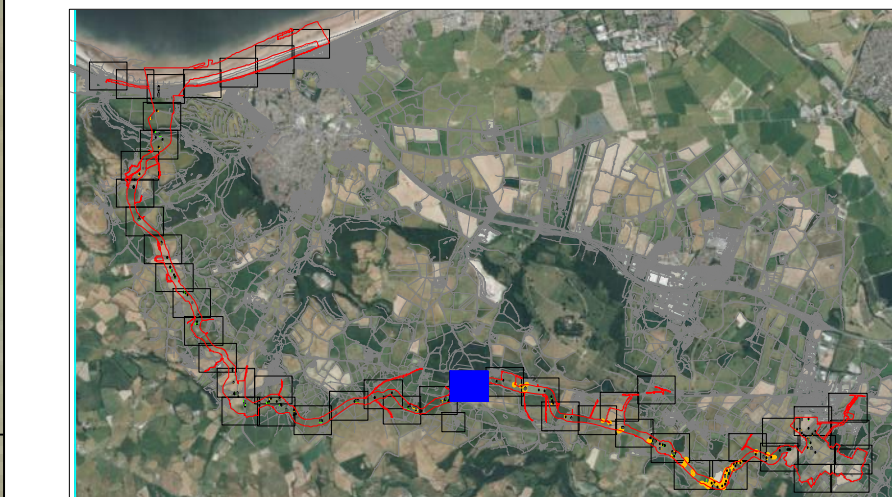
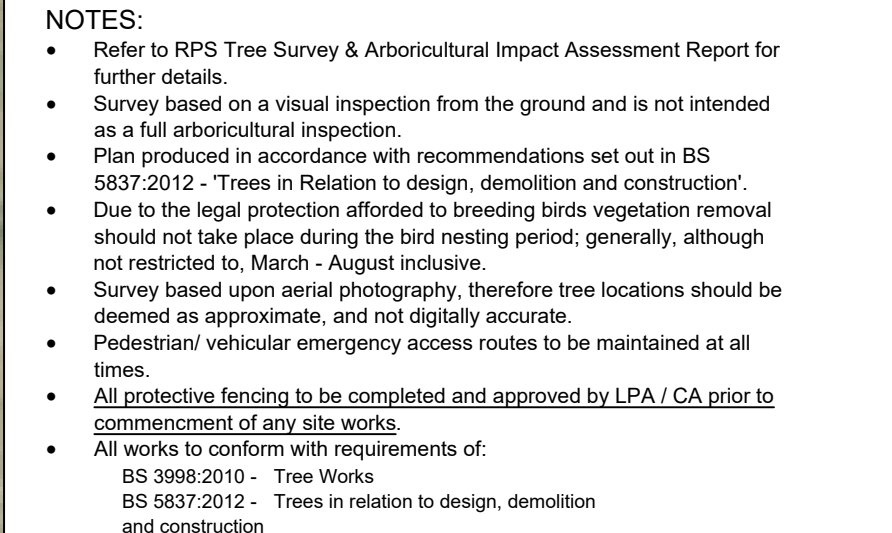
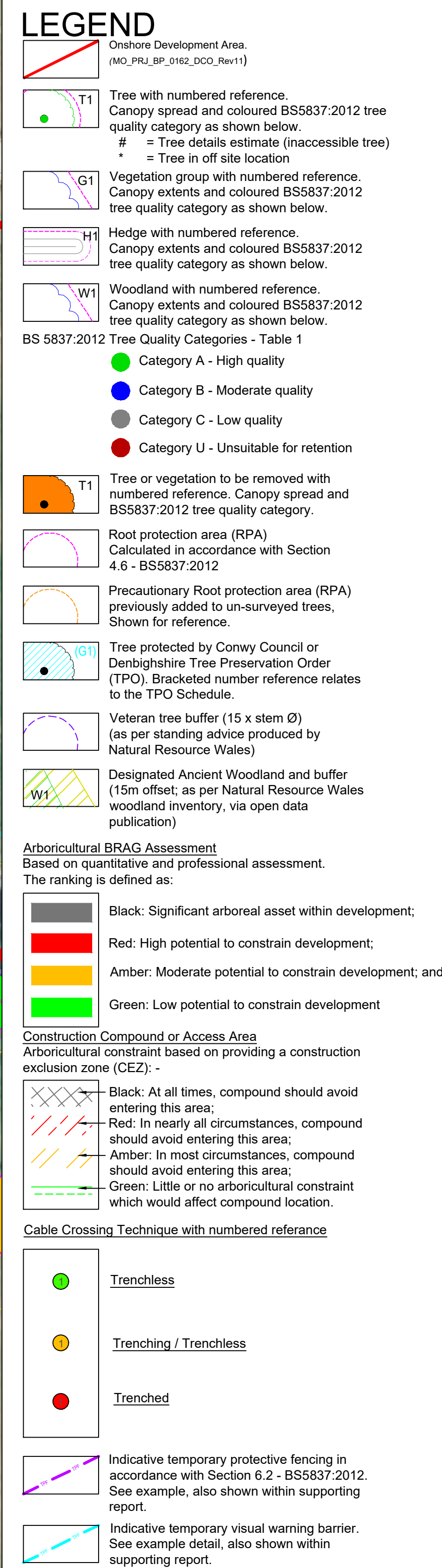
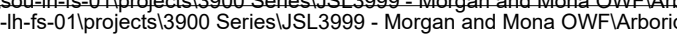
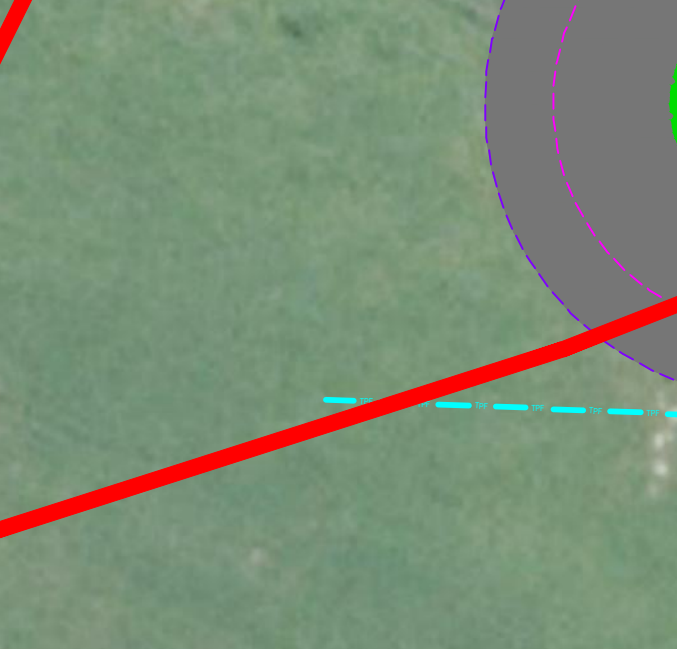
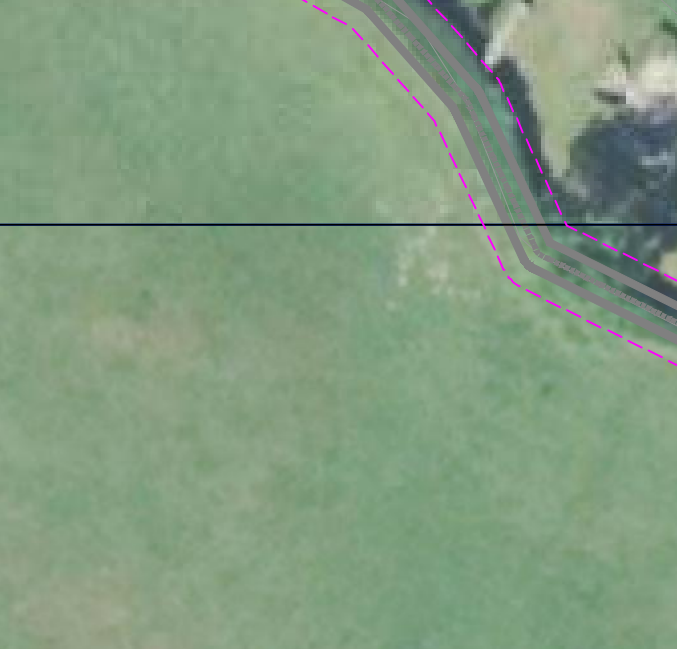
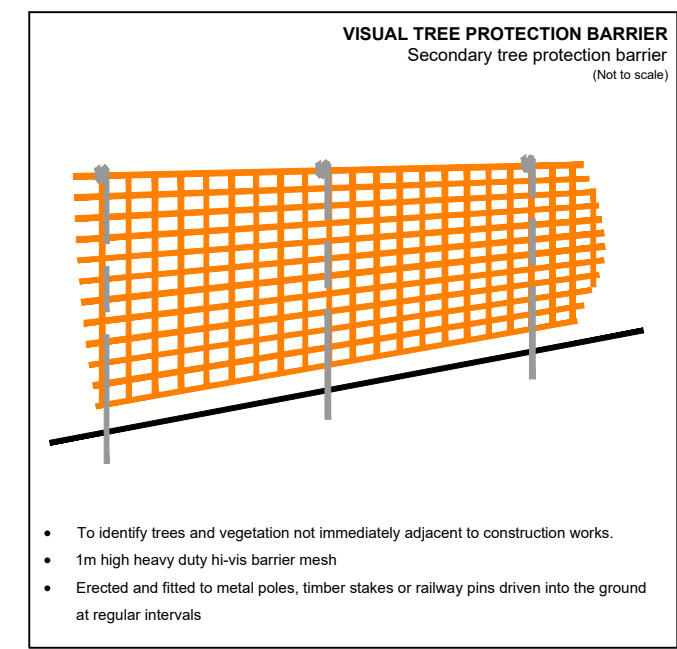
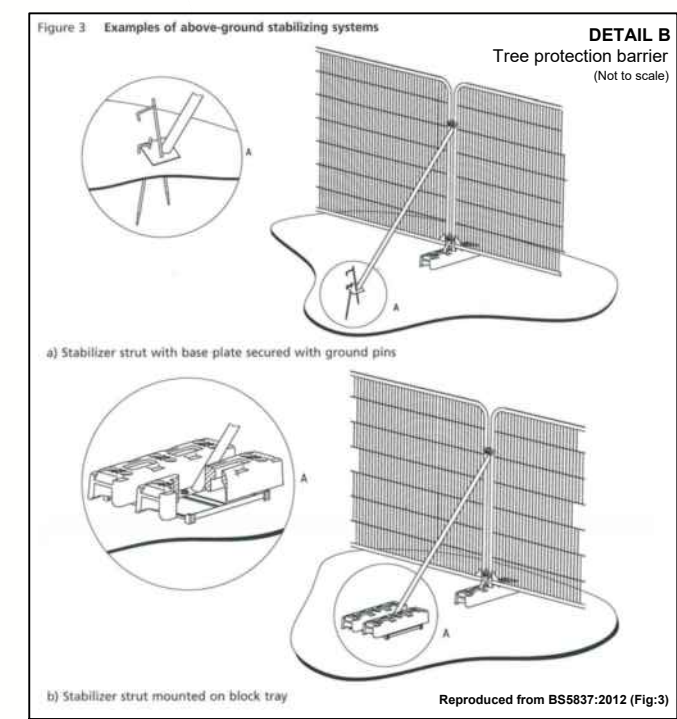
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Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid

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
04	Sept/24	Information	RC	DC



Rev	Description	By	CB	Date
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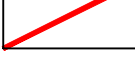
Drawing Number:

7127


VER	DATE	DETAILS	BY	CHECKED
01	Jan/24	Comment	RC	DC
04	Sept/24	Information	RC	DC



LEGEND




Crusade Development Area
(MO_PRL_SF_0162_000_Ret11)



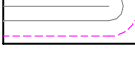
T1

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



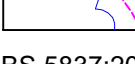
G1

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




Category A - High quality




Category B - Moderate quality



Category C - Low quality




Category U - Unsuitable for retention




T1


Tree or vegetation to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.



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

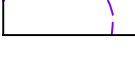


Precautionary Root protection area (RPA)
previously added to un-surveyed trees.
Shown for reference.

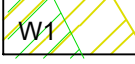


T1

Tree protected by Conwy Council or Denbighshire Tree Preservation Order (TPO). Bracketed 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 woodland inventory, via open data publication)

Arboricultural BRAG Assessment


Based on quantitative and professional assessment.
The ranking is defined as:



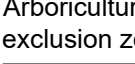
Black: Significant arboreal asset within development;



Red: High potential to constrain development;




Amber: Moderate potential to constrain development; and




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Construction Compound or Access Area

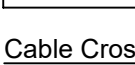
Arboricultural constraint based on providing a construction exclusion zone (CEZ):



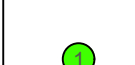
Black: At all times, compound should avoid entering this area;



Red: In heavy all circumstances, compound should avoid entering this area;




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
Cable Crossing Technique with numbered reference



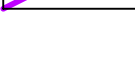
Trenchless



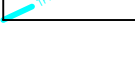
Trenching / Trenchless



Trenched



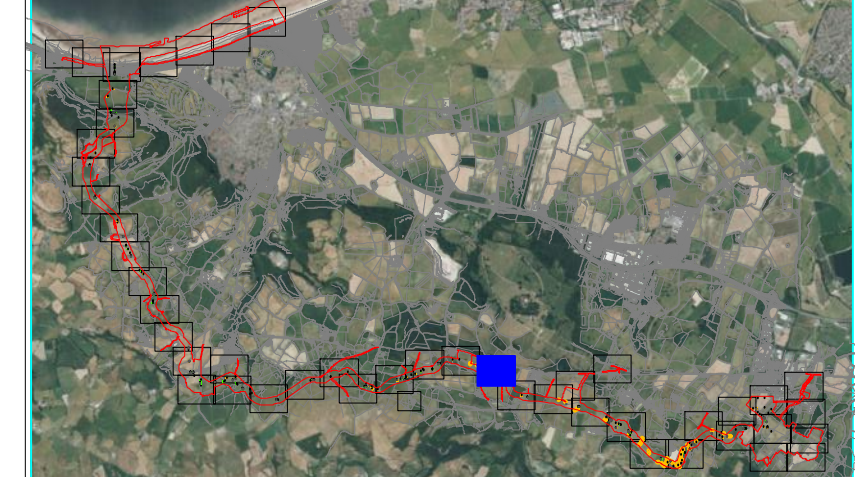
Indicative temporary protective fencing in accordance with Section 6.2 - BS5837:2012
See example, also shown within supporting report.





Indicative temporary visual warning barrier.
See example detail, also shown within supporting report.

NOTES:

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BS 5837:2012 - Trees in relation to design, demolition and construction



Rev	Description	By	CB	Date



Partners in UK offshore wind

Drawing Number:

7129

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

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE AND HEDGEROW PROTECTION PLAN

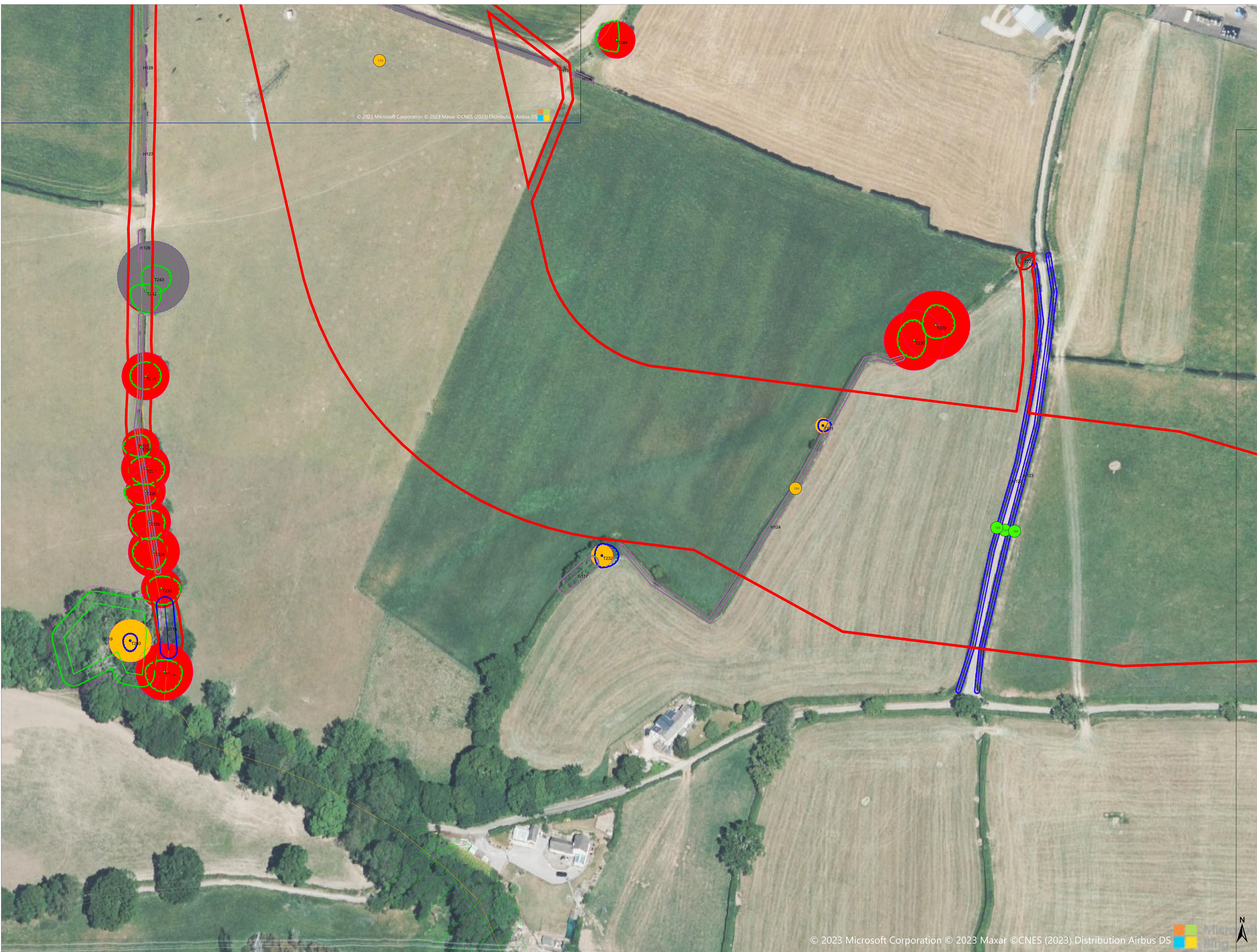
Scale
Scale@A0: 1:500

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

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V:\new\h46\01\projects\3900 Series\US 3999 - Morgan and Mona Offshore Wind\Arboriculture\Tech\ACAD\Current\USL3999_010E_TFP_Cable Route.dwg



LEGEND

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

T1 Tree or vegetation to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.

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

Precautionary Root protection area (RPA) previously added to un-surveyed trees. Shown for reference.

Tree protected by Conwy Council or Denbighshire Tree Preservation Order (TPO). Bracketed 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 woodland inventory, via open data publication)

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Black: Significant arboreal asset within development;

Red: High potential to constrain development;

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Construction Compound or Access Area
Arboricultural constraint based on providing a construction exclusion zone (CEZ):

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Red: In heavily all circumstances, compound should avoid entering this area;

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Cable Crossing Technique with numbered reference

Trenchless

Trenching / Trenchless

Trenched

Indicative temporary protective fencing in accordance with Section 6.2 - BS5837:2012 See example, also shown within supporting report.

Indicative temporary visual warning barrier. See example detail, also shown within supporting report.

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Rev	Description	By	CB	Date

Partners in UK offshore wind

Drawing Number:

7130

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

I:\au-hk-01\projects\3900 Series\3900 - Morgan and Mona Offshore Wind\Arboriculture\Tech\ACAD\Current\3900_800E_TTP_Cable Route.dwg
VisuP-Is-01\projects\3900 Series\3900 - Morgan and Mona Offshore Wind\Arboriculture\Tech\ACAD\Current\3900_800E_TTP_Cable Route.dwg



LEGEND

Ordnance Development Area
(NO_PRL_BP_0182_D00_Ren11)

Tree with numbered reference.
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Cable Crossing Technique with numbered reference

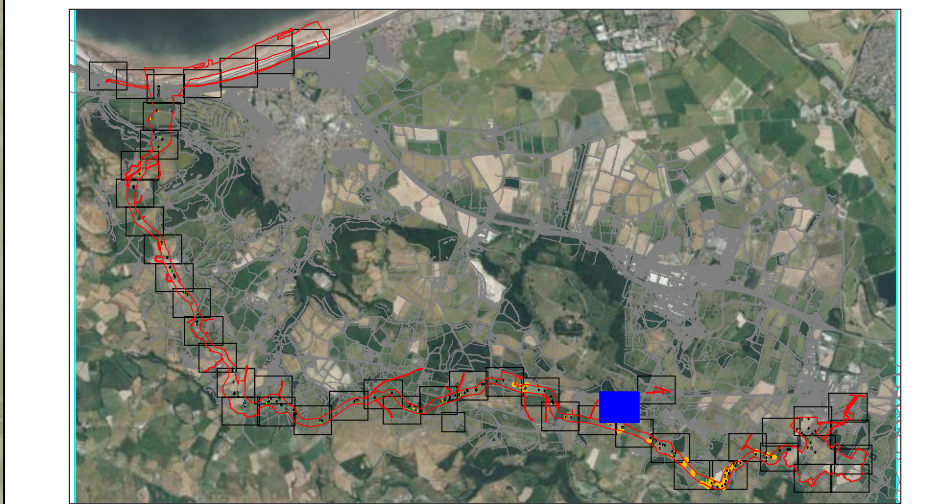
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- Trenching / Trenchless
- Trenched

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See example, also shown within supporting report.

Indicative temporary visual warning barrier.
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Rev	Description	By	CB	Date



Drawing Number:
7132

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE AND HEDGEROW PROTECTION 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

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



LEGEND

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Hedge with numbered reference.
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Woodland with numbered reference.
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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

Tree or vegetation to be removed with
numbered reference. Canopy spread and
BS5837:2012 tree quality category.

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

Precautionary Root protection area (RPA)
previously added to un-surveyed trees.
Shown for reference.

Tree protected by Conway Council or
Denbighshire Tree Preservation Order
(TPO). Bracketed 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
woodland inventory, via open data
publication)

Arboricultural BRAG Assessment
Based on quantitative and professional assessment.
The ranking is defined as:

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Amber: Moderate potential to constrain development; and

Green: Low potential to constrain development

Construction Compound or Access Area
Arboricultural constraint based on providing a construction
exclusion zone (CEZ):

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entering this area;

Red: In heavily all circumstances, compound
should avoid entering this area;

Amber: In most circumstances, compound
should avoid entering this area;

Green: Little or no arboricultural constraint
which would affect compound location.

Cable Crossing Technique with numbered reference

Trenchless

Trenching / Trenchless

Trenched

Indicative temporary protective fencing in
accordance with Section 6.2 - BS5837:2012
See example, also shown within supporting
report.

Indicative temporary visual warning barrier.
See example detail, also shown within
supporting report.

NOTES:


- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
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- All works to conform with requirements of:
BS 5837:2012 - Tree Works
BS 5837:2012 - Trees in relation to design, demolition and construction

Rev	Description	By	CB	Date

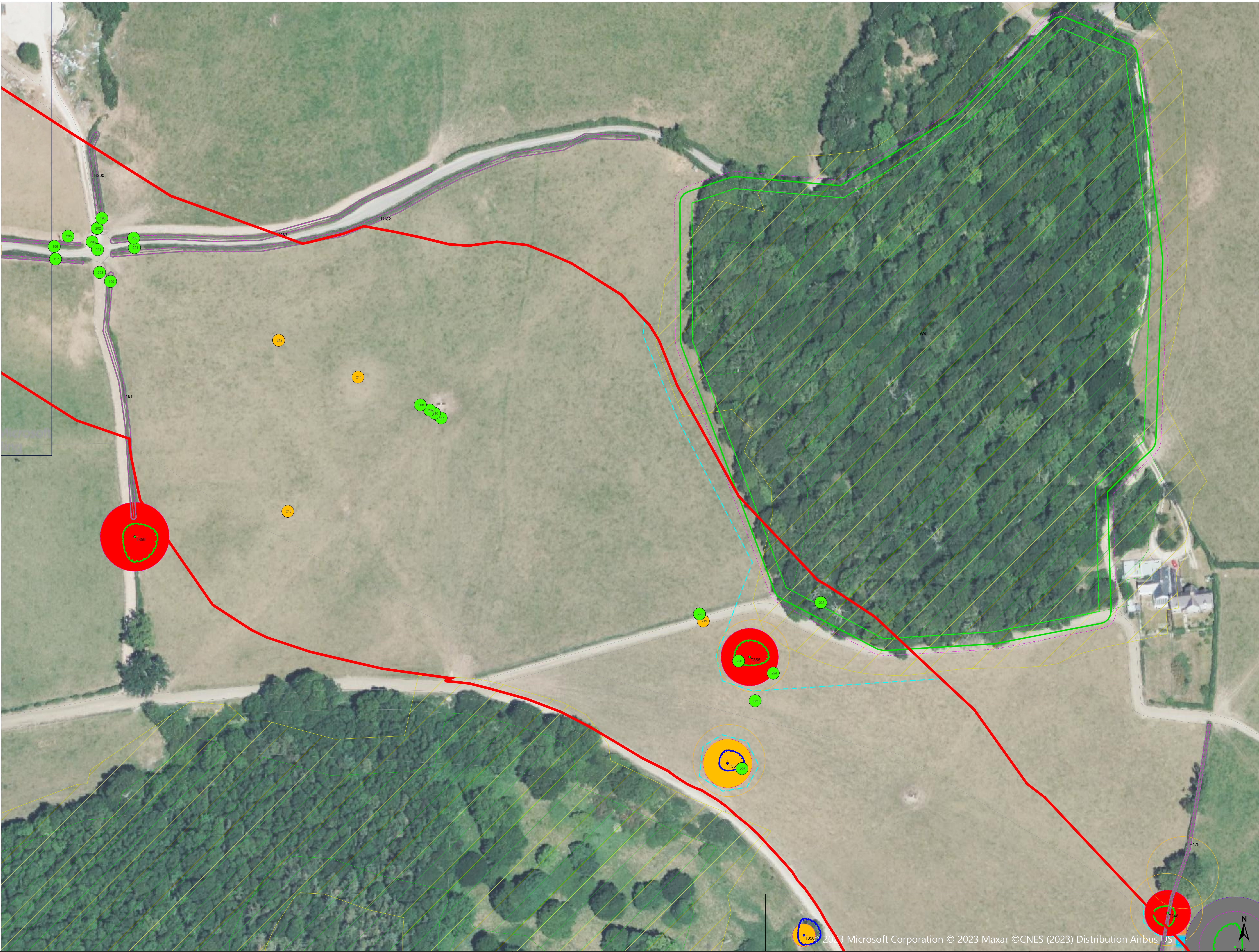
Partners in UK offshore wind

Drawing Number:

7133

Project Name: MONA OFFSHORE WIND PROJECT	Drawing Title: TREE AND HEDGEROW PROTECTION 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	<table><tr><th>VER</th><th>DATE</th><th>DETAILS</th><th>BY</th><th>CHECK</th></tr><tr><td>01</td><td>Jan/24</td><td>Comment</td><td>RC</td><td>DC</td></tr><tr><td>04</td><td>Sept/24</td><td>Information</td><td>RC</td><td>DC</td></tr></table>	VER	DATE	DETAILS	BY	CHECK	01	Jan/24	Comment	RC	DC	04	Sept/24	Information	RC	DC
VER	DATE	DETAILS	BY	CHECK																	
01	Jan/24	Comment	RC	DC																	
04	Sept/24	Information	RC	DC																	

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\\na01-rs-01\projects\3900_Series\USL3999 - Morgan and Mona Offshore\Arboricultural\Tech\ACAD\Current\USL3999_800E_TPP_Cable_Route.dwg



LEGEND

- Orange Development Area
(MO_PRL_SF_5162_500_Ren1)
- 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
- Category A - High quality
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 - Category C - Low quality
 - Category U - Unsuitable for retention
- T1 Tree or vegetation to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
- Root protection area (RPA)
Calculated in accordance with Section 4.6 - BS5837:2012
- Precautionary Root protection area (RPA)
Previously added to un-surveyed trees. Shown for reference.
- Tree protected by Conwy Council or Denbighshire Tree Preservation Order (TPO). Bracketed 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 woodland inventory, via open data publication)

Arboricultural BRAG Assessment
Based on quantitative and professional assessment.
The ranking is defined as:

- Black: Significant arboreal asset within development;
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- Green: Low potential to constrain development

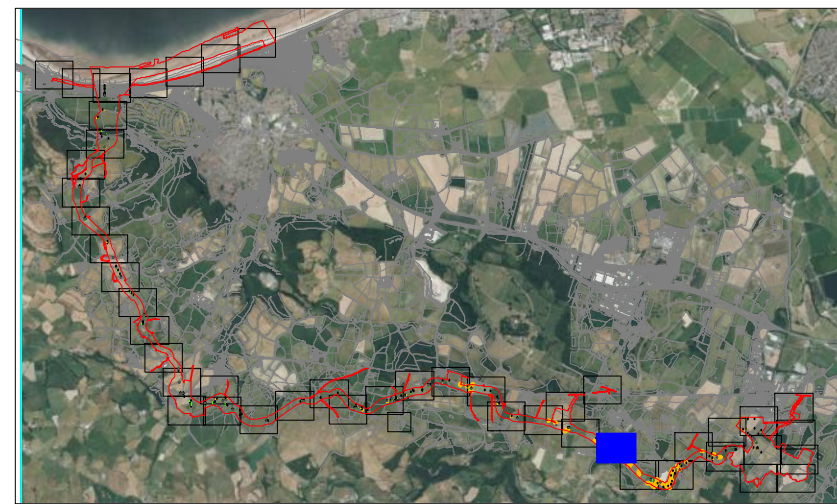
Construction Compound or Access Area
Arboricultural constraint based on providing a construction exclusion zone (CEZ):

- Black: At all times, compound should avoid entering this area;
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- Amber: In most circumstances, compound should avoid entering this area;
- Green: Little or no arboricultural constraint which would affect compound location.

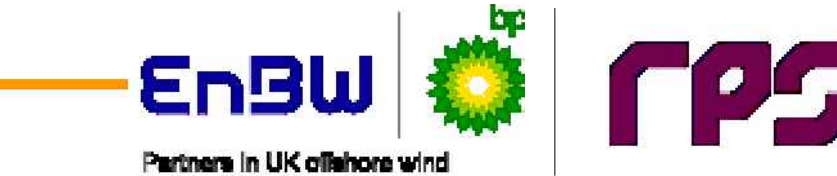
- Cable Crossing Technique with numbered reference
- Trenchless
 - Trenching / Trenchless
 - Trenched
- Indicative temporary protective fencing in accordance with Section 6.2 - BS5837:2012
See example, also shown within supporting report.
- Indicative temporary visual warning barrier.
See example detail, also shown within supporting report.

NOTES:

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- All protective fencing to be completed and approved by LPA / CA prior to commencement of any site works.
- All works to conform with requirements of:
BS 5837:2012 - Tree Works
BS 5837:2012 - Trees in relation to design, demolition and construction



Rev	Description	By	CB	Date



Drawing Number:

7135

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

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE AND HEDGEROW PROTECTION 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



LEGEND

- Orange Development Area
(NO_PRL_BP_0182_D00_Rv11)
- Tree with numbered reference.
Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
• = Tree 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.
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- Root protection area (RPA)
Calculated in accordance with Section 4.6 - BS5837:2012
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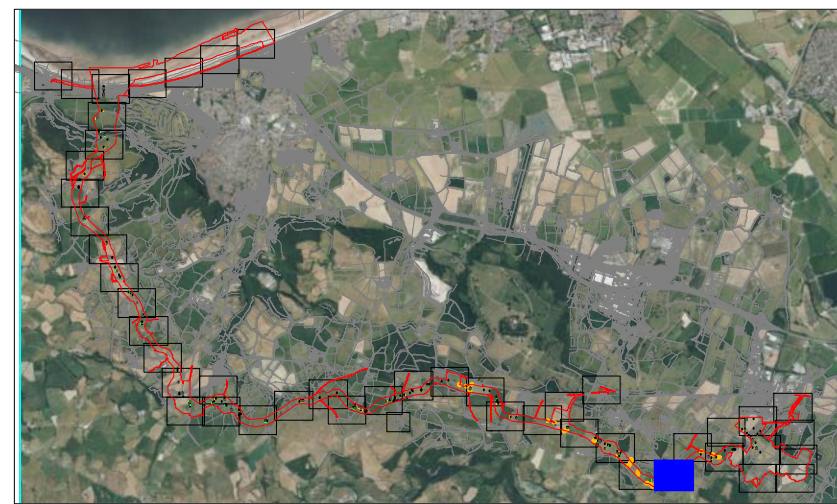
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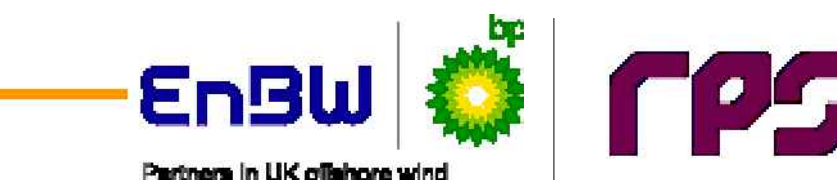
- Cable Crossing Technique with numbered reference
- Trenchless
 - Trenching / Trenchless
 - Trenched
- Indicative temporary protective fencing in accordance with Section 6.2 - BS5837:2012
See example, also shown within supporting report.
- Indicative temporary visual warning barrier.
See example detail, also shown within supporting report.

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BS 5837:2012 - Trees in relation to design, demolition and construction



Rev	Description	By	CB	Date



Drawing Number:

7137

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

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
TREE AND HEDGEROW PROTECTION 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



LEGEND

Crustacean Development Area
(NO_PRL_SF_0182_DCO_Rv11)

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

Category A - High quality

Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

T1 Tree or vegetation to be removed with
numbered reference. Canopy spread and
BS5837:2012 tree quality category.

Root protection area (RPA)
Calculated in accordance with Section
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Precautionary Root protection area (RPA)
previously added to un-surveyed trees.
Shown for reference.

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Cable Crossing Technique with numbered reference

Trenchless

Trenching / Trenchless

Trenched

Indicative temporary protective fencing in
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and construction

Rev	Description	By	CB	Date

Partners in UK offshore wind

Drawing Number:

7138

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