



INCHAMORE WIND DAC

INCHAMORE WIND FARM

CO. CORK

**VOLUME III
EIAR FIGURES**



May 2023

Inchamore Wind DAC,
C/O FuturEnergy Ireland,
27/28 Herbert Place,
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INCHAMORE WIND FARM, CO. CORK

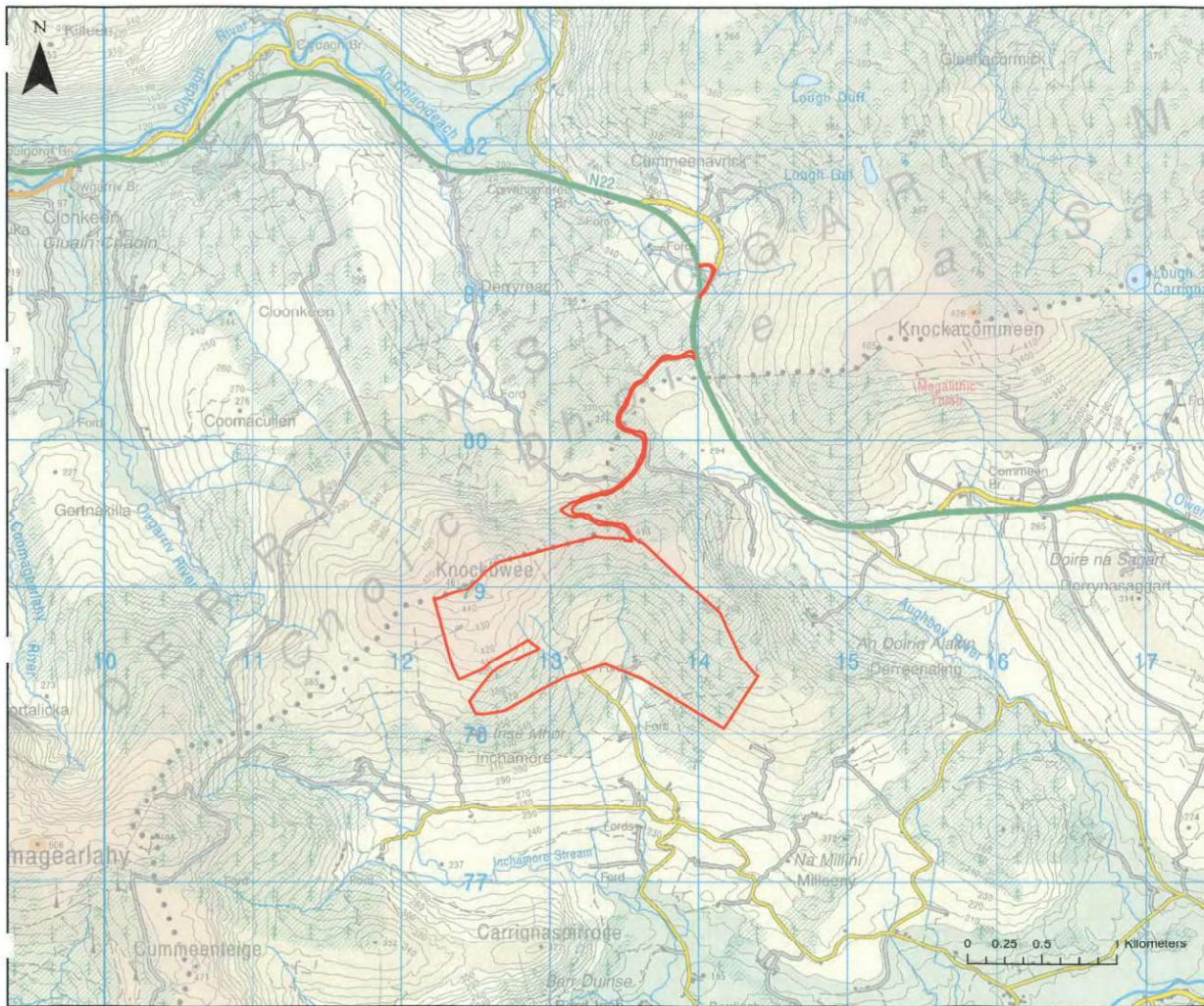
VOLUME III – EIA FIGURES

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Legend
 Site Boundary

Rev	Date	By	Comment

Client
 Inchamore Wind DAC

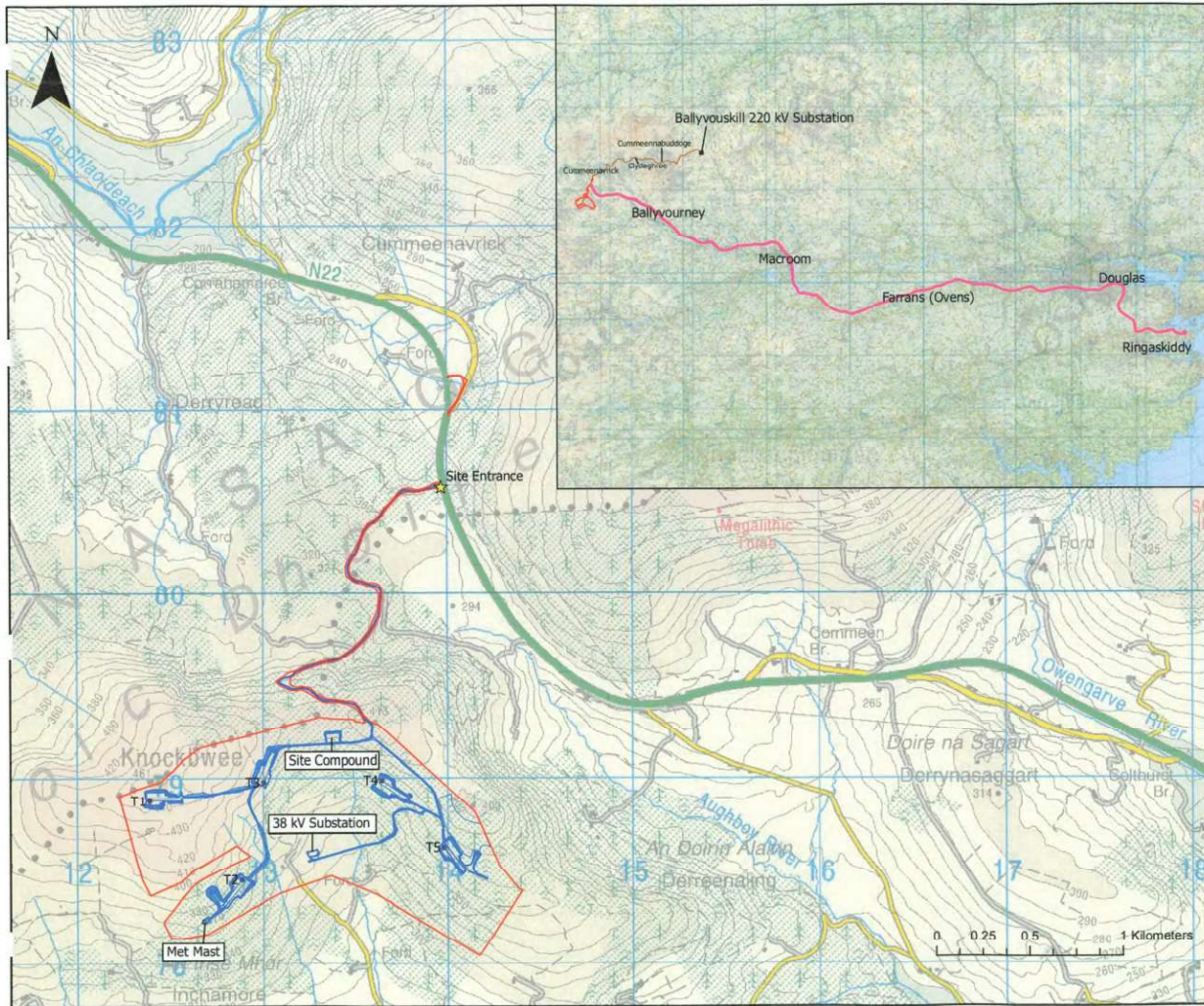
Client Representative
JENNINGS O'DONOVAN
 CONSULTING ENGINEERS

Project
 Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

Title
 Site Location

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Drg. By	SB	Drg No	-
Checked By	SM	Rev	1
Stage	EIAR	Date	07/03/23
Scale	1:25,000 (A3)	Figure	1.1



Legend

- Met_Mast_Location
- ★ Site_Entrance
- Red Line Boundary
- Site Infrastructure
- Turbine Locations
- Grid Connection Route
- Ballyvouskill 220kV Substation
- Turbine Delivery Route

Rev	Date	By	Comment

Client
Inchamore Wind DAC

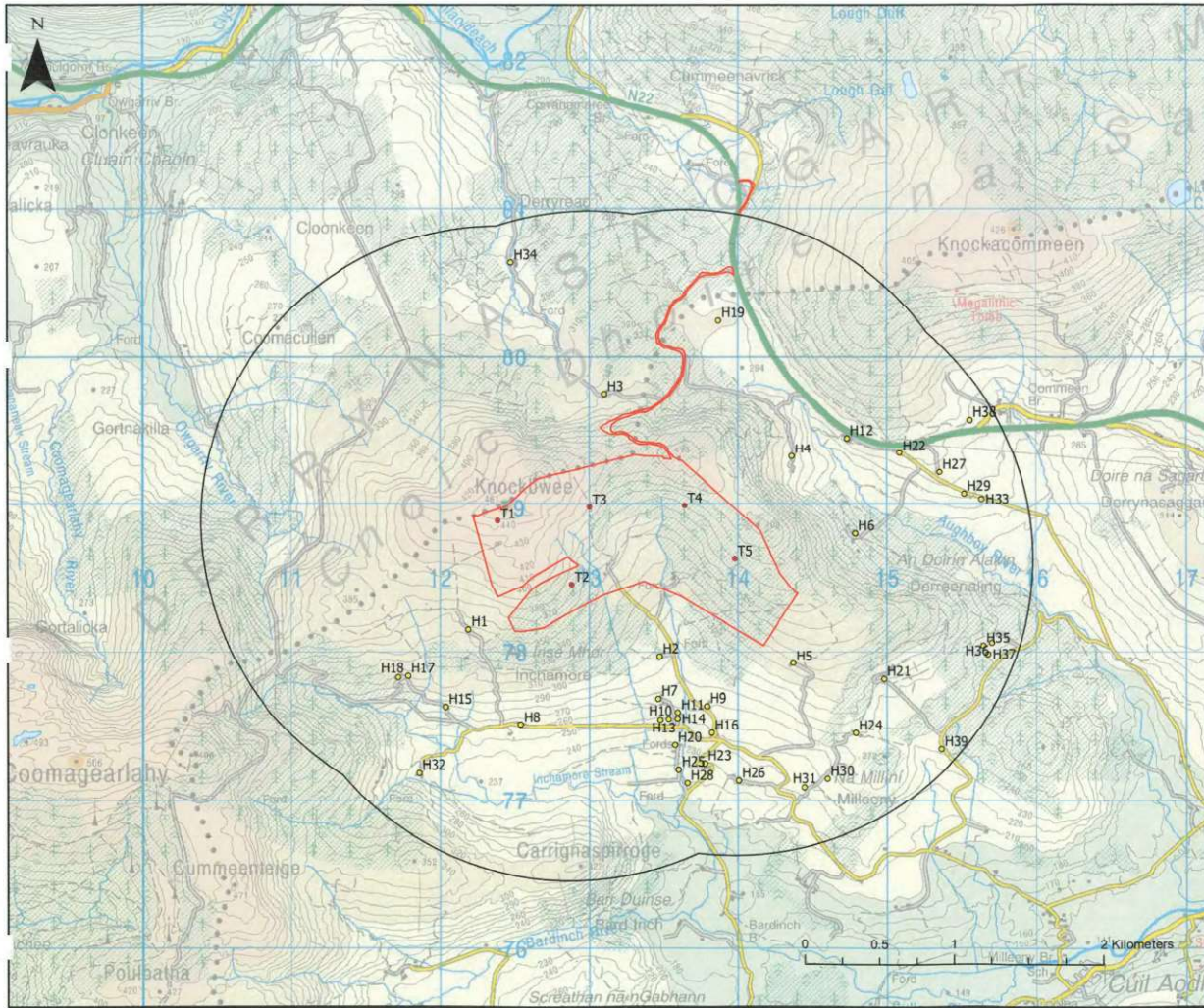
Client Representative
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CONSULTING ENGINEERS

Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

Title
Project Elements

CYAL50312015
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Drw. By	SB	Drw No	-
Checked By	SM	Rev	0
Stage	EJAR	Date	22/05/23
Scale	1:25,000 (A3)	Figure	1.2



Legend

- Turbine Locations
- House Locations
- Redline Boundary
- 2 km Turbine Buffer

Rev	Date	By	Comment

Client
Inchamore Wind DAC

Client Representative

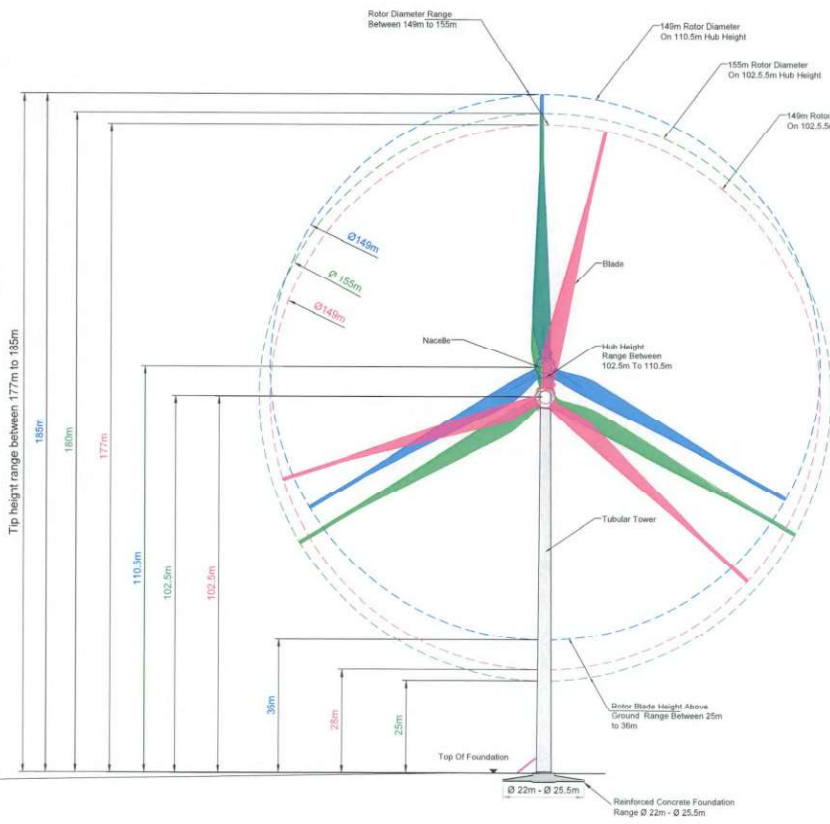
JENNINGS O'DONOVAN
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Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

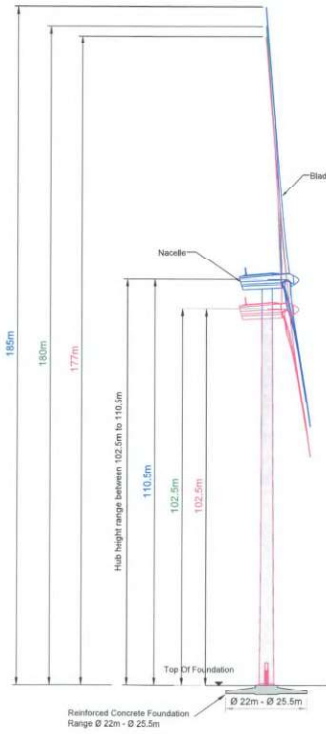
Title
House Locations

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Drw. By	SB	Drw No	-
Checked By	SM	Rev	5
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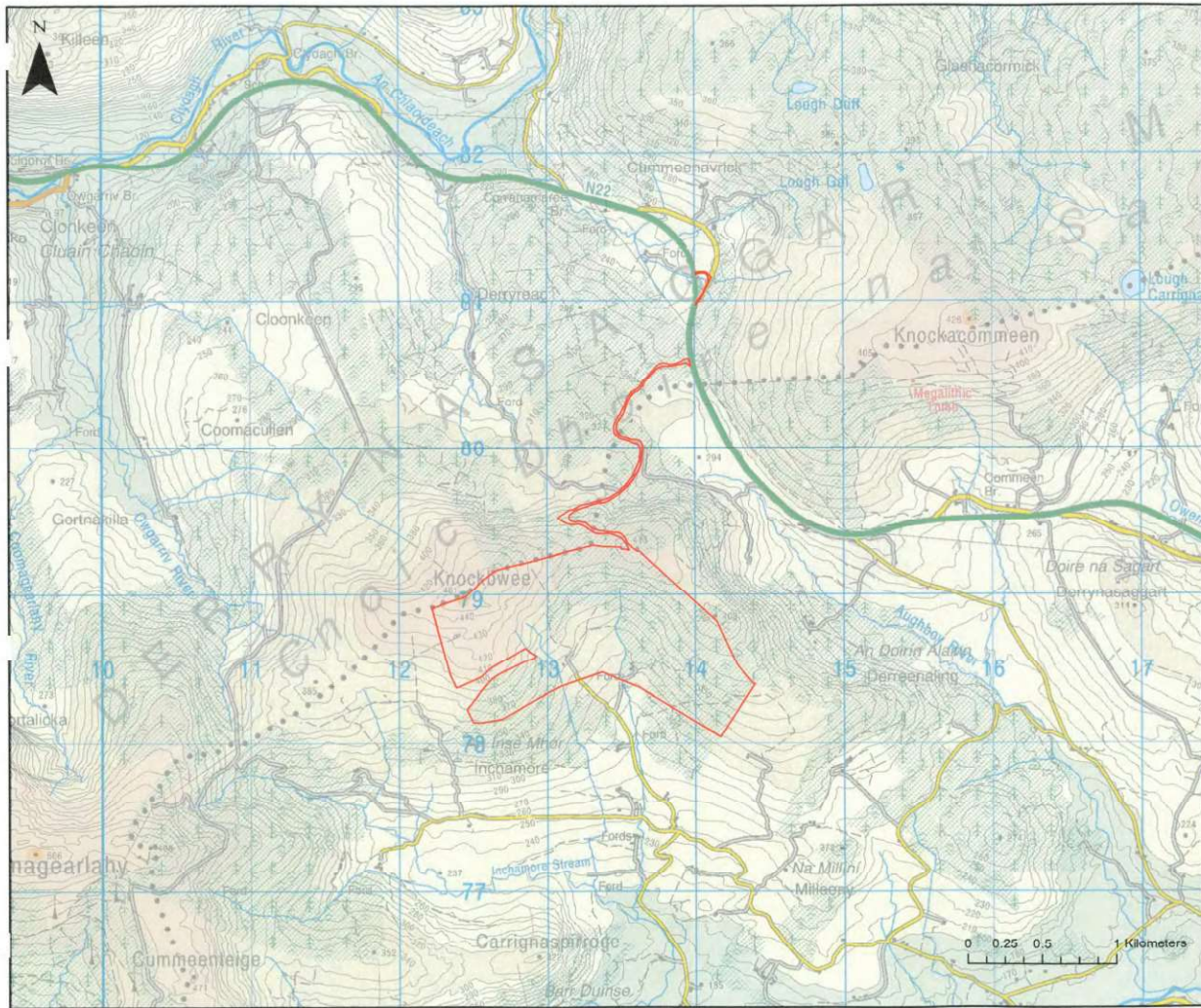


Candidate Turbine Front Elevation



Candidate Turbine Side Elevation

MATERIAL/FINISH SPECIFICATIONS			
* FIBRE MATERIAL - GLASS/FIBRE REINFORCED EPOXY			
* TOWER MATERIAL - CONICAL TUBULAR STEEL			
* TURBINES WILL BE FINISHED TO A WHITE / OFF WHITE OR GREY COLOUR WITH A MATT NON-REFLECTIVE FINISH AS AGREED WITH THE PLANNING AUTHORITY			
Rev	Description	By	Issue Date
Client: Inchamore Wind DAC			
Project: Proposed Wind Farm at Inchamore, Coolea, Co. Cork			
Stage: Planning			
Title: Turbine Details including Visual Representations of Candidate Turbines			
Scale: 1:1,000 @ A3			
Drawn	Prepared By	Checked	Date
	A.M.C.	S.M.	18-06-2023
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Job No.	Drawing no.	Figure no.	Revision
6226	6226-PL-703	1.4	




Legend

□ Inchamore Site Boundary

Rev	Date	By	Comment

Client
Inchamore Wind DAC

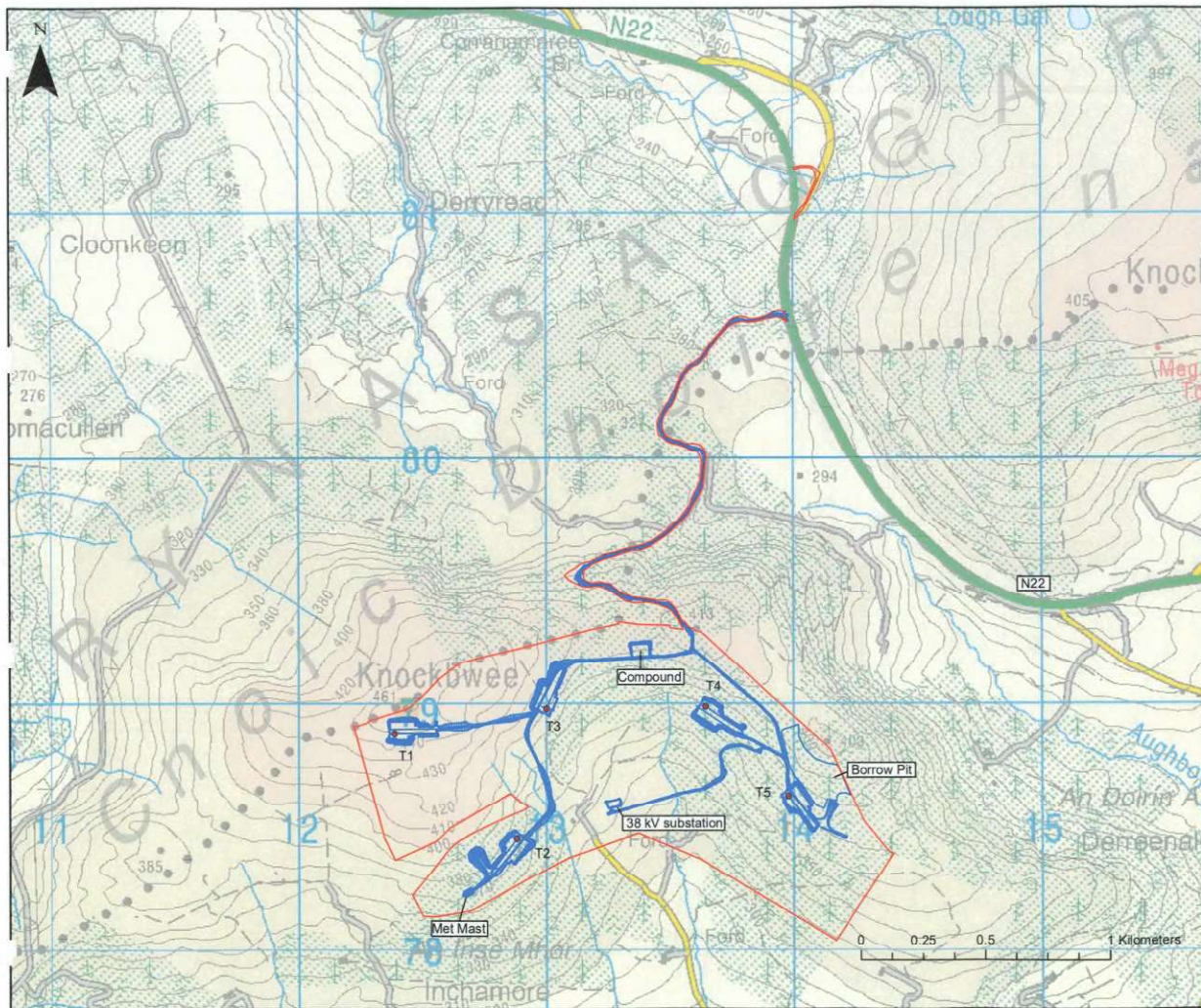
Client Representative

JENNINGS O'DONOVAN
CONSULTING ENGINEERS

Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

Title
Site Location

CYAL52313915
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Drsg. By	SB	Drsg No	-
Checked By	SM	Rev	3
Stage	EIAR	Date	31/03/23
Scale	1:25,000 (A3)	Figure	2.1



Legend

- Met_Mast_Location
- Site Infrastructure
- Turbine Locations
- Inchamore Site Boundary

Rev	Date	By	Comment

Client
Inchamore Wind DAC

Client Representative

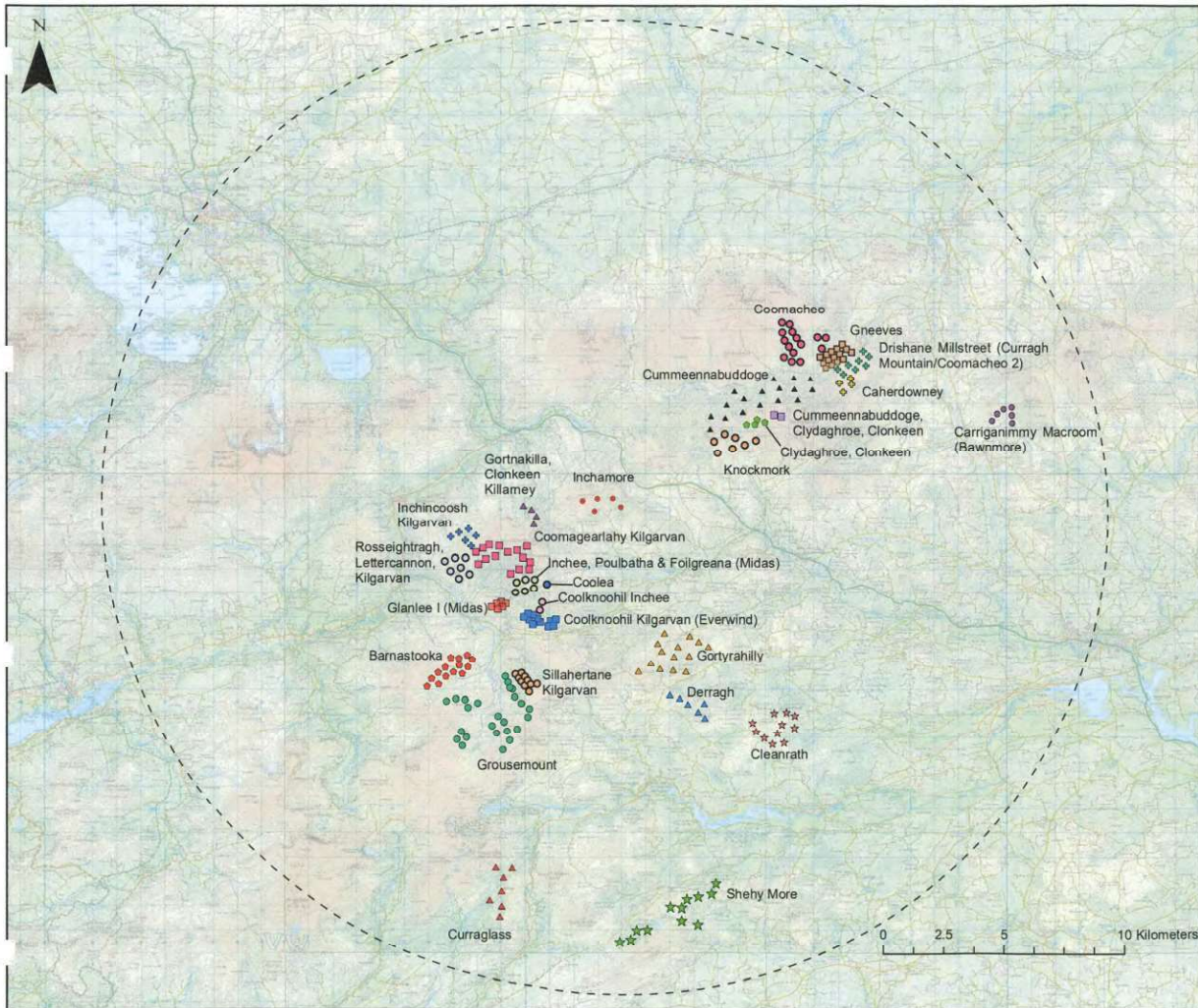
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Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

Title
Site Layout

CYAL6013815
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Org. By	SB	Drng No	-
Checked By	SM	Rev	3
Stage	EIAR	Date	31/03/23
Scale	1:15,000 (A3)	Figure	2.2



- Legend**
- Wind Farm**
- Barnastooka
 - Caherdorney
 - Carriganimmy Macroom (Bawnmore)
 - ★ Clearrath
 - Clydaghroe, Clonkeen
 - Coolea
 - Coolknoohil Inchee
 - Coolknoohil Kilgarvan (Everwind)
 - Coomecheo
 - Coomegearlahy Kilgarvan
 - ▲ Cummeenabuddoge
 - Cummeenabuddoge, Clydaghroe, Clonkeen
 - ▲ Curraglass
 - ▲ Derragh
 - ◆ Drishane Millstreet (Curragh Mountain/Coomecheo 2)
 - Glanlee I (Midas)
 - Gneeves
 - Gneeves Millstreet
 - ▲ Gortnakilla, Clonkeen Killamey
 - ▲ Gortyrähilly
 - Grousemount
 - Inchee, Poulbatha & Foilgreana (Midas)
 - ◆ Inchincoosh Kilgarvan
 - Knockamork
 - Rosseightragh, Lettercannon, Kilgarvan
 - ★ Shely More
 - Sillahertane Kilgarvan
 - Inchamore
- 20 km buffer

Rev	Date	By	Comment

Client
Inchamore Wind DAC

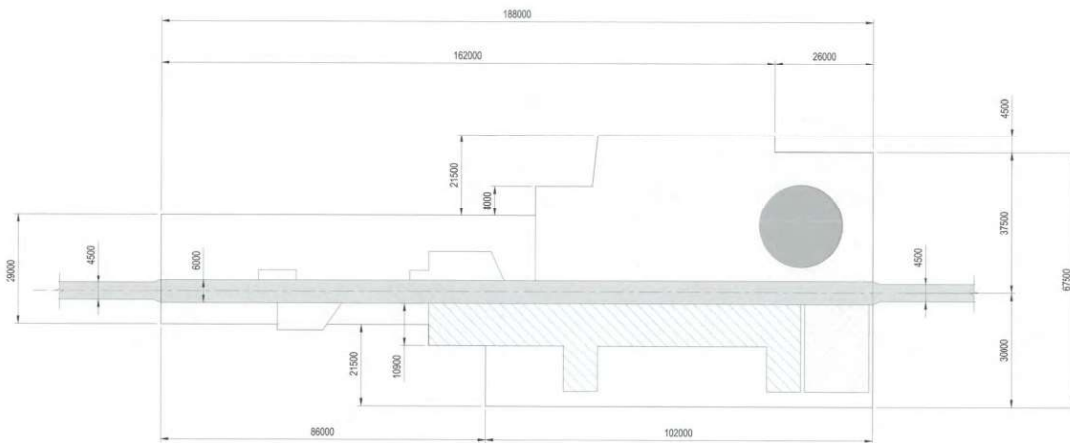
Client Representative

Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.


Title
Wind Farms within 20 km of the Proposed Turbines

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Drg. By	SB	Drg No	-
Checked By	SM	Rev	1
Stage	EIAR	Date	28/02/23
Scale	1:155,000 (A3)	Figure	2.3



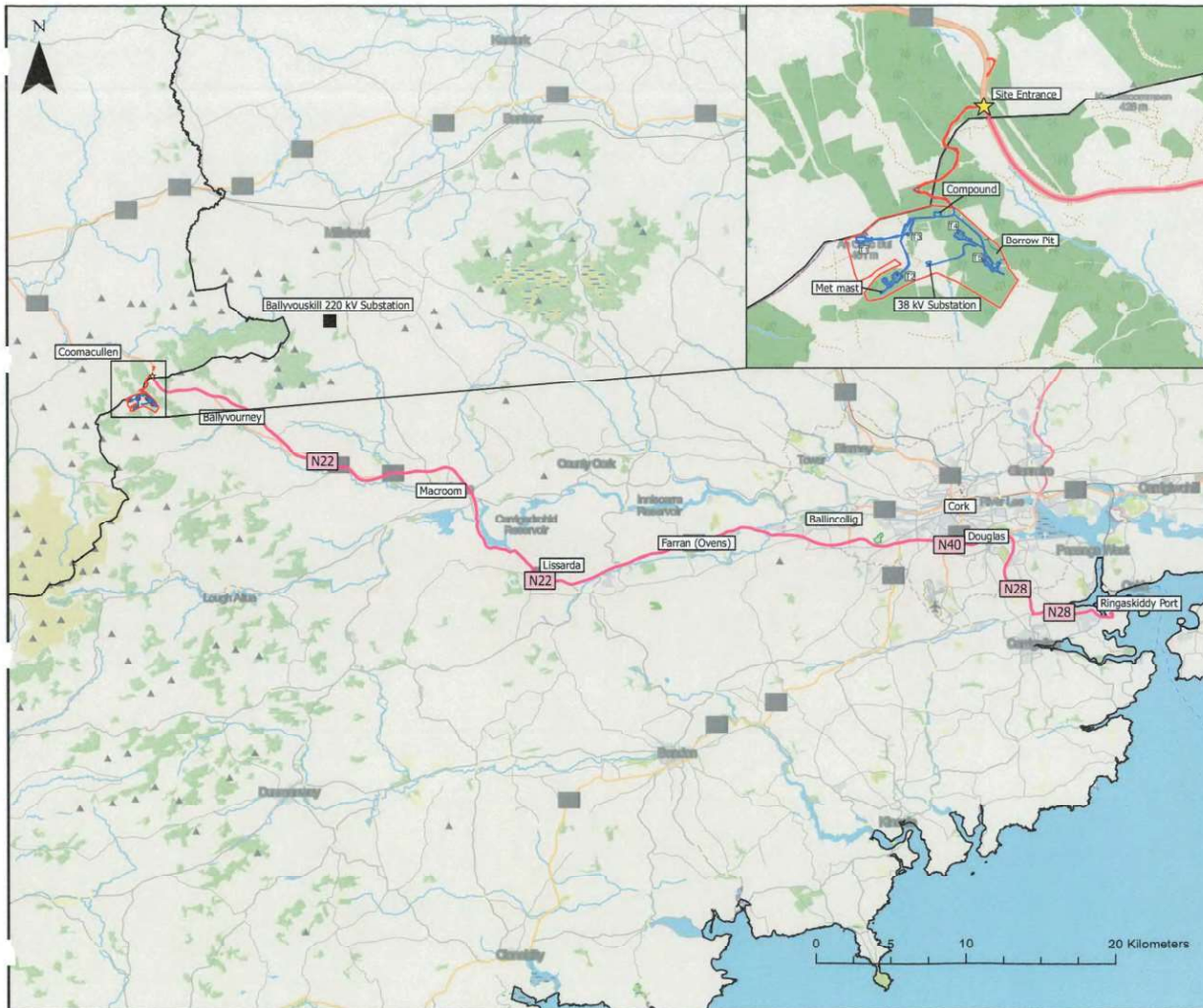
HARDSTAND LEGEND

-  MAIN CRANE HARDSTAND (2770m²)
-  COMPONENT SET DOWN AREA (1290m²)
-  ASSIST CRANE HARDSTANDS (290m²)
-  AREA CLEARED OF ANY OBSTACLES (3060m²)
-  VEHICLE PARKING (390m²)
-  ACCESS ROAD (1128m²)
-  TURBINE FOUNDATION (380m²)

Rev	Description	By	Date

Client: Inchamore Wind DAC			
Project: Proposed Wind Farm at Inchamore, Coolea, Co. Cork			
Stage: Planning			
Title: Crane Hardstand Layout Plan			
Scales: 1:500 @ A3			
Surveyed	Prepared By	Checked	Date
	A.M.O.	G.M.	31.03.2023
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Job No.	Drawing no.	Figure no.	Revision
6226	6226-PL-601	2.4	





Legend

- ☆ Site Entrance
- Turbine Delivery Route (TDR)
- Turbine Locations
- Site Infrastructure
- Inchamore Site Boundary
- County Boundary
- Inchamore Grid Connection Route
- Ballyvouskill 220kV Substation

Rev	Date	By	Comment

Client
Inchamore Wind DAC

Client Representative


Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

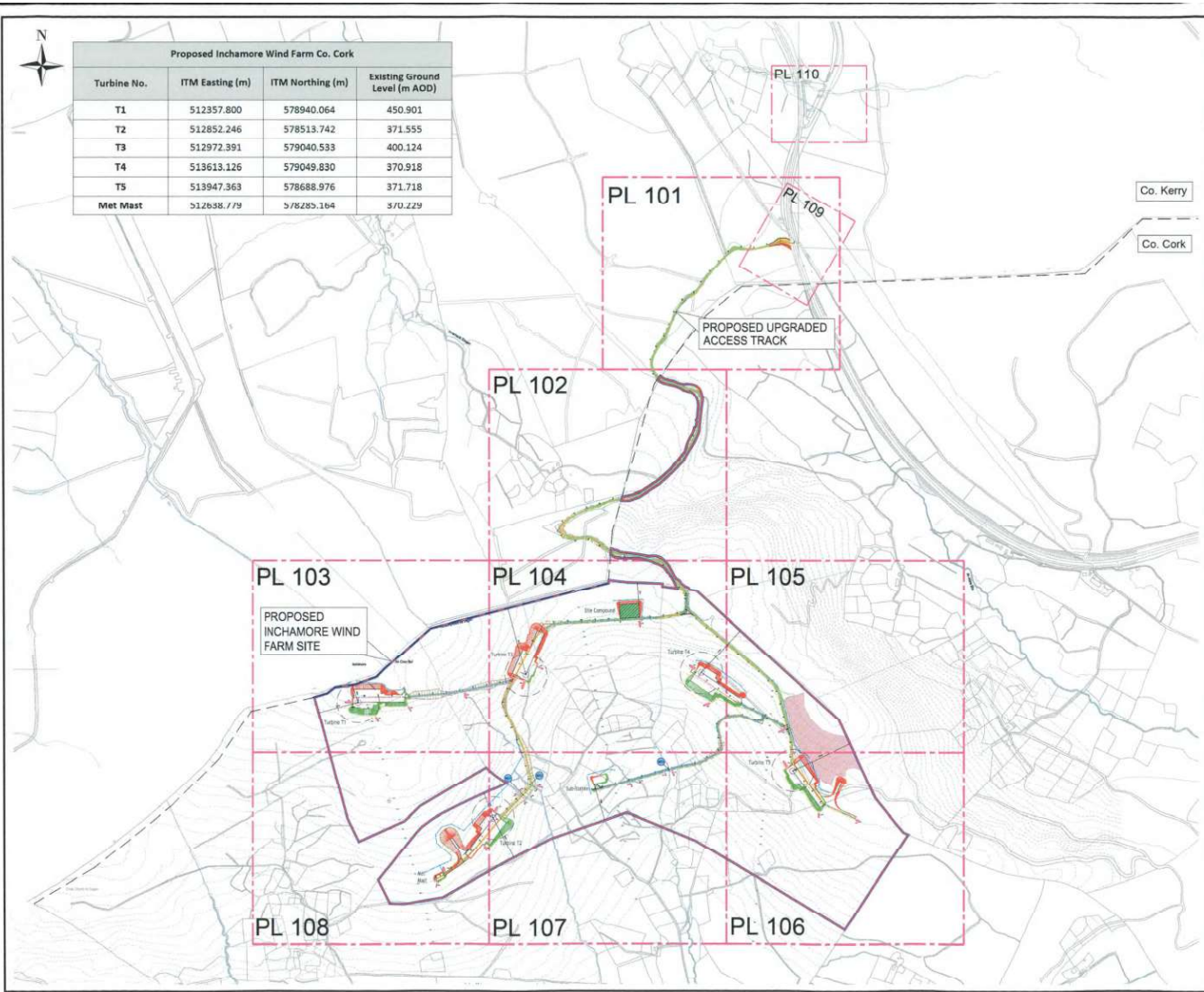
Title
Turbine Delivery Route and Site Entrance

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Drg. By	SB	Drg No	-
Checked By	SM	Rev	7
Stage	EIAR	Date	07/03/23
Scale	1:250,000 (A3)	Figure	2.5



Proposed Inchamore Wind Farm Co. Cork			
Turbine No.	ITM Easting (m)	ITM Northing (m)	Existing Ground Level (m AOD)
T1	512357.800	578940.064	450.901
T2	512852.246	578513.742	371.555
T3	512972.391	579040.533	400.124
T4	513613.126	579049.830	370.918
T5	513947.363	578688.976	371.718
Met Mast	512638.779	578285.164	370.229



Legend

- Land where the Applicant has ownership of beneficial interest
- Planning Application Boundary
- Proposed Wind Turbine
- Proposed Crane Hardstand
- Proposed Site Access Road
- Existing Site Road to be upgraded
- Proposed Cut Area
- Proposed Filled Area
- Dirty Water Drain
- Clean Water Drain
- Culvert
- Settlement Pond
- Buffered Outlet
- Watercourse Crossing
- Existing Watercourse
- Proposed Borrow Pit
- Proposed Meteorological Mast
- Proposed Temporary Construction Compound
- Contours of existing ground elevation
- County border

Co. Kerry
Co. Cork

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Client: **Inchamore Wind DAC**

Project: **Proposed Wind Farm at Inchamore, Coolea, Co. Cork**

Stage: **Planning**

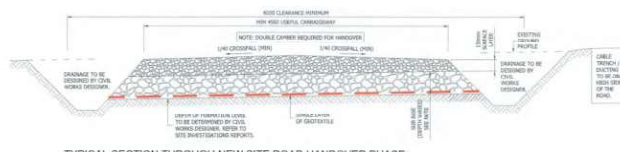
Title: **Site Layout Keyplan**

Scales: **1:12,500 @ A3**

Surveyed	Prepared By	Checked	Date
	A.McC.	B.M.	11-05-2023

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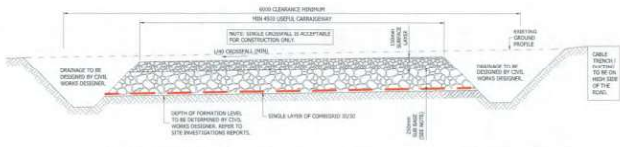
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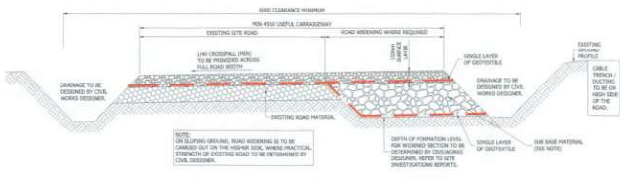
TYPICAL SECTION THROUGH NEW SITE ROAD HANDOVER PHASE
SCALE: 1:10



TYPICAL SECTION THROUGH NEW SITE ROAD CONSTRUCTION PHASE (CBR BETWEEN 1% and 2%)
SCALE: 1:10



TYPICAL SECTION THROUGH NEW SITE ROAD CONSTRUCTION PHASE (CBR BETWEEN 2% and 4%)
SCALE: 1:10

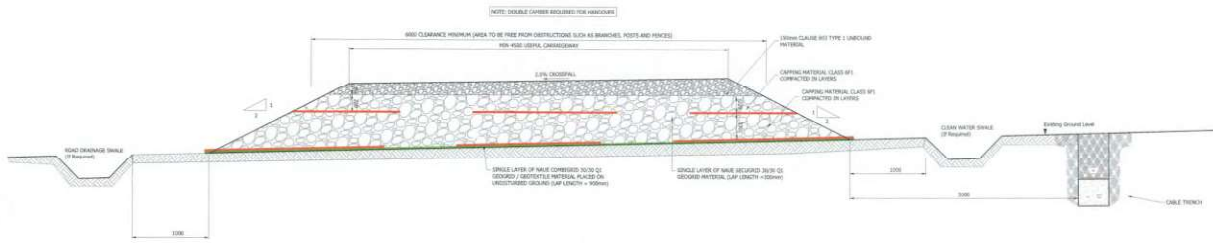


TYPICAL ROAD WIDENING ON EXISTING SITE ROADS WHERE REQUIRED CONSTRUCTION PHASE
SCALE: 1:10

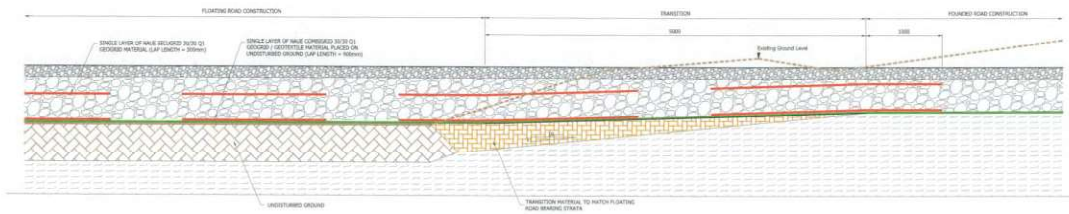
Client	Inchamore Wind DAC		
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork		
Stage	Planning		
Title	Road Construction Details Sheet 1 of 2		
Scale	1:50 (A3)		
Submitted	Prepared By	Checked	Date
	A.M.G.	S.M.	31-03-2023

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Job No.	Drawing No.	Figure No.	Revision
6226	PL-401	2.7	



TYPICAL SECTION - NEW FLOATING ROAD - (CBR = 1%)
SCALE: 1:50

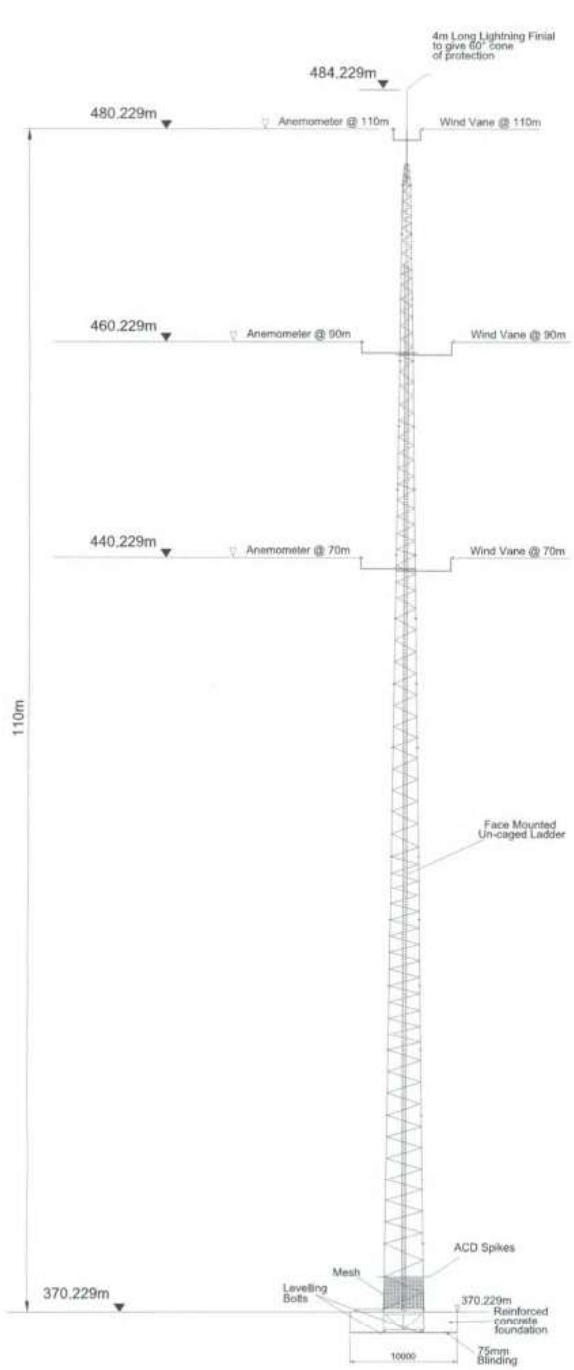


TRANSITION BETWEEN FLOATING AND FOUNDED ROAD
SCALE: 1:50

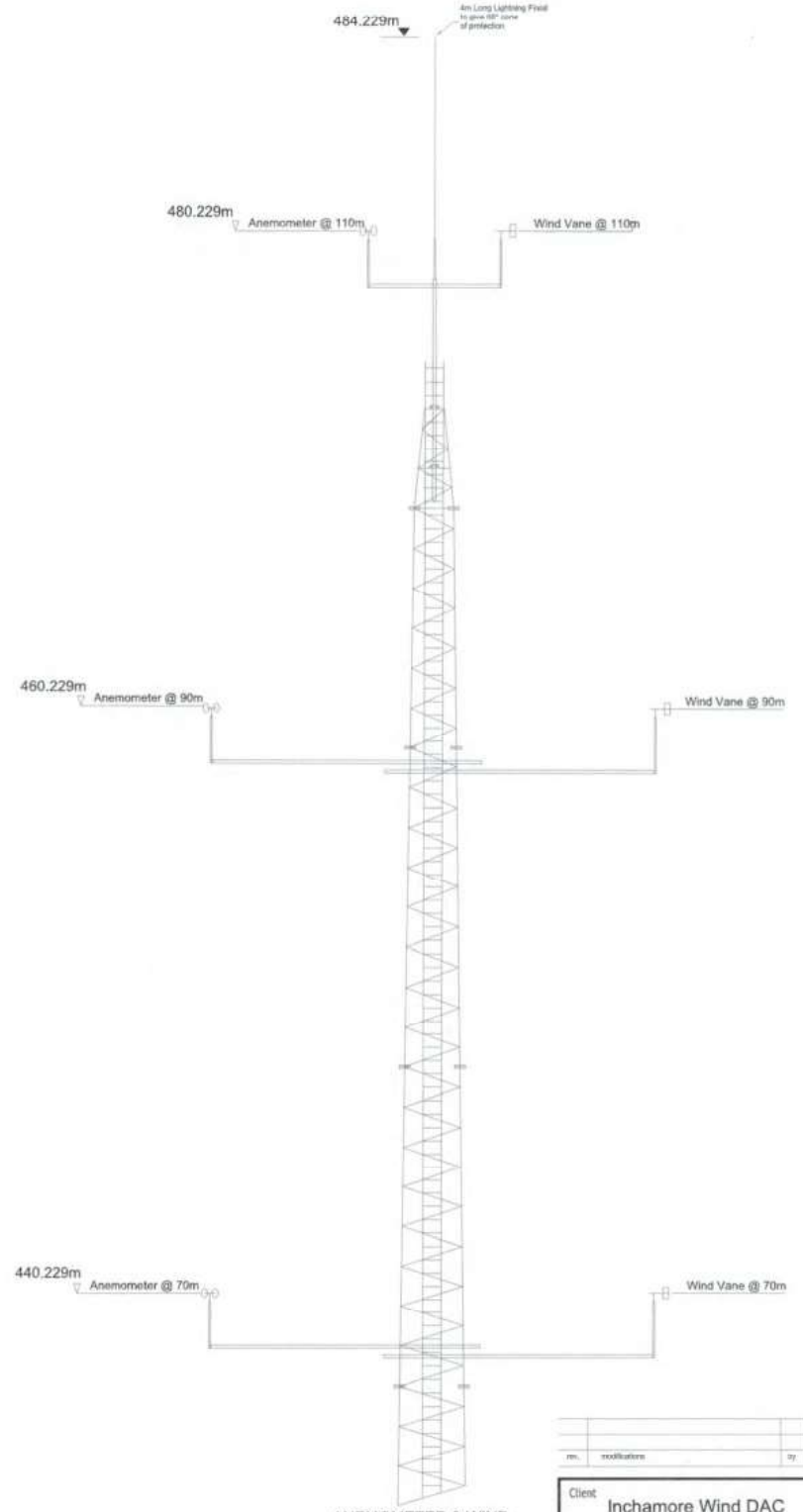
NO.	REVISIONS	BY	DATE

Client	Inchamore Wind DAC		
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork		
Stage	Planning		
Title	Road Construction Details Sheet 2 of 2		
Scales	1:50 (A3)		
Surveyed	Prepared By	Checked	Date
	A.McC.	S.M.	31-03-2023

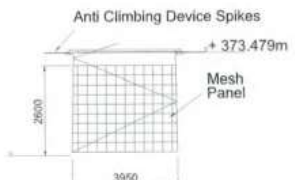
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Job No.	Drawing no.	Figure no.	Revision
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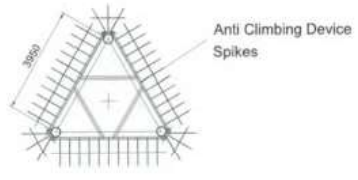
ELEVATION
Scale 1:500



ANEMOMETER & WIND
VANE LOCATIONS
Scale 1:250



SECURITY PANEL TO BASE OF TOWER
Scale 1:200



ANTI CLIMBING DEVICE
Scale 1:200

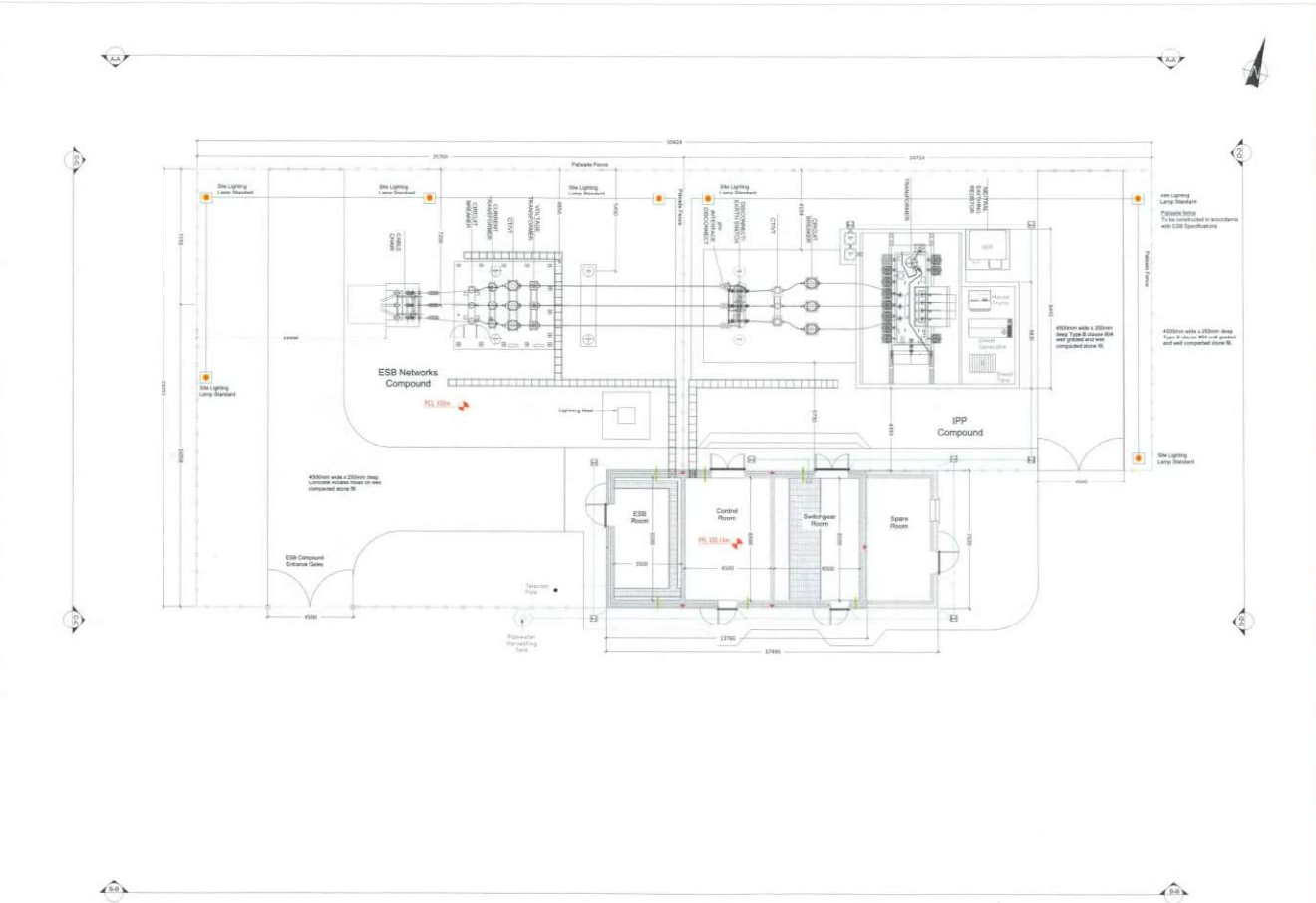
no.	modifications	by	date

Client	Inchamore Wind DAC		
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork		
Stage	Planning		
Title	Proposed 110m Met Mast Details		
Scales			
As Noted A3			
Surveyed	Prepared By	Checked	Date
	A.McC.	B.M.	31-03-2023

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Job No.	Drawing no.	Figure	Revision
6226	6226-PL-801	2.9	



Wind Farm - 38kV Substation Compound Layout
SCALE 1:100

PLEASE NOTE THAT THE SUBSTATION LAYOUT AND SUBSTATION COMPONENTS ILLUSTRATED ON THIS DRAWING ARE INDICATIVE ONLY. THE FULL SPECIFICATION AND DETAIL WILL BE DETERMINED FROM THE ELECTRICAL EQUIPMENT SUPPLIER AND ESB FUNCTIONAL SPECIFICATION.



PROJECT
Inchamore Wind Farm

CLIENT
Inchamore Wind DAC

- CONSULTANTS**
- NOTES:**
- Configuration of substation equipment and infrastructure to reflect detailed design and DR design requirements.
 - Dimensions are to be used in conjunction with relevant drawings, specifications and reports.
 - Dimensions are to be confirmed, unless stated otherwise.
 - Drawings are not to be scaled, use figured dimensions only.

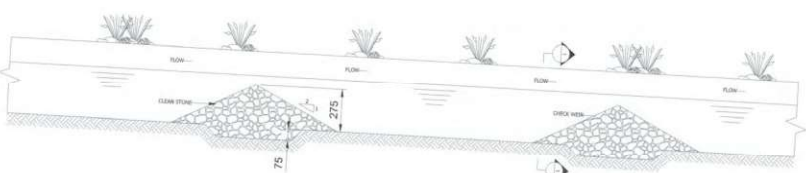
- LEGEND:**
- Surface water drainage shown thus
 - Foul drainage shown thus
 - Lamp Standard shown thus
 - Proposed Levels Shown thus (Planning)

ISSUE/REVISION	DATE	DESCRIPTION
01	16.11.22	Issued for Planning

PROJECT NUMBER
05-934

SHEET TITLE
38kV Substation Compound Layout

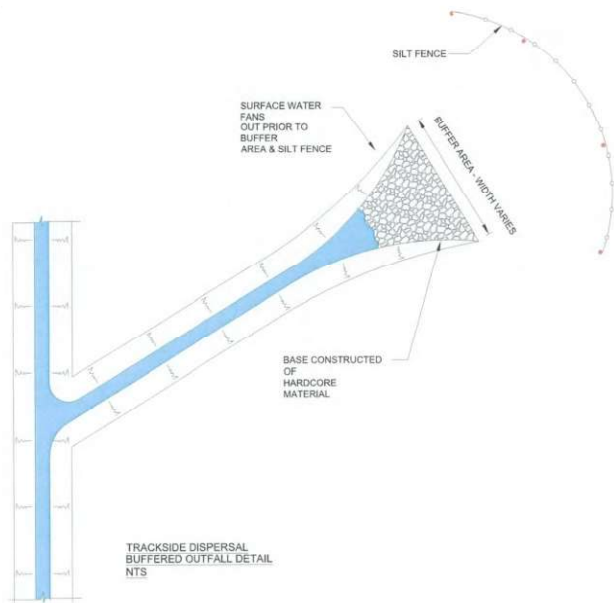
SHEET NUMBER
05934-DR-226



TYPICAL LONGITUDINAL SECTION THROUGH DRAINAGE WITH CHECK WEIRS
SCALE 1:25



SECTION 1-1
SCALE 1:25



TRACKSIDE DISPERSAL
BUFFERED OUTFALL DETAIL
NTS

DRAINAGE NOTES

1. GENERAL
DRAINAGE BUFFER ZONE WIDTHS SHALL BE A MINIMUM OF 20M.

2. CONSTRUCTION AND MAINTENANCE
DRAINAGE CHANNELS SHALL BE CONSTRUCTED TO ACCEPT LARGE VOLUMES OF WATER FROM THE CROPPED AREAS.
DRAINAGE CHANNELS SHALL BE CONSTRUCTED TO ACCEPT WATER FROM ALL ADJACENT AREAS WHICH MUST DISCHARGE INTO A BUFFER OF ADEQUATE WIDTH.
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3. DRAINAGE
DRAINAGE CHANNELS SHALL BE CONSTRUCTED TO ACCEPT LARGE VOLUMES OF WATER FROM THE CROPPED AREAS.
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4. DRAINAGE CHANNELS SHALL BE CONSTRUCTED TO ACCEPT LARGE VOLUMES OF WATER FROM THE CROPPED AREAS.
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NO.	DESCRIPTION	BY	DATE

Client: Inchamore Wind DAC

Project: Proposed Wind Farm at Inchamore, Coolea, Co. Cork

Stage: Planning

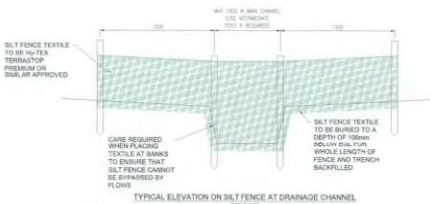
Title: Drainage Details Sheet 1 of 4

Scales: 1:25 @ A3

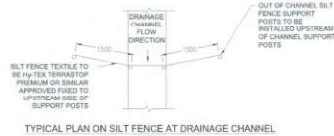
Surveyed	Prepared By	Checked	Date
	A.M.C.	S.M.	31-03-2023

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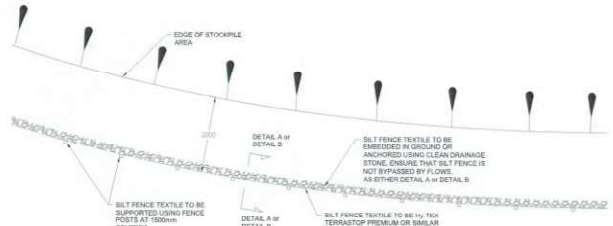
Job No.	Drawing no.	Figure no.	Revision
6226	PL-301	2.11	



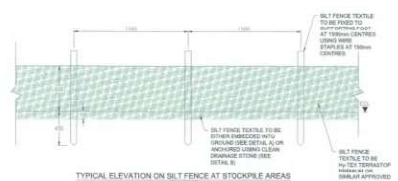
TYPICAL ELEVATION ON SILT FENCE AT DRAINAGE CHANNEL
SCALE 1:10



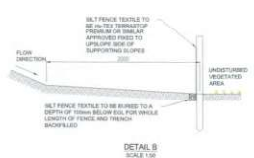
TYPICAL PLAN ON SILT FENCE AT DRAINAGE CHANNEL
SCALE 1:100



TYPICAL PLAN ON SILT FENCE AT STOCKPILE AREAS
SCALE 1:100



TYPICAL ELEVATION ON SILT FENCE AT STOCKPILE AREAS
SCALE 1:10



DETAIL B
SCALE 1:10

- REVISIONS**
- | No. | Description | By | Date |
|-----|-------------|----|------|
| 1 | ISSUED | | |
- GENERAL NOTES**
- DESIGNER'S BUFFER ZONE WIDTHS SHALL BE A MINIMUM OF 20M.
 - CONSTRUCTION AND MAINTENANCE:
 - PLACEMENT SHALL BE IN ACCORDANCE WITH THE DESIGNER'S SPECIFICATIONS AND SHALL BE SUBJECT TO THE SUPERVISOR'S INSPECTION AND APPROVAL.
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No.	Substation	By	Date

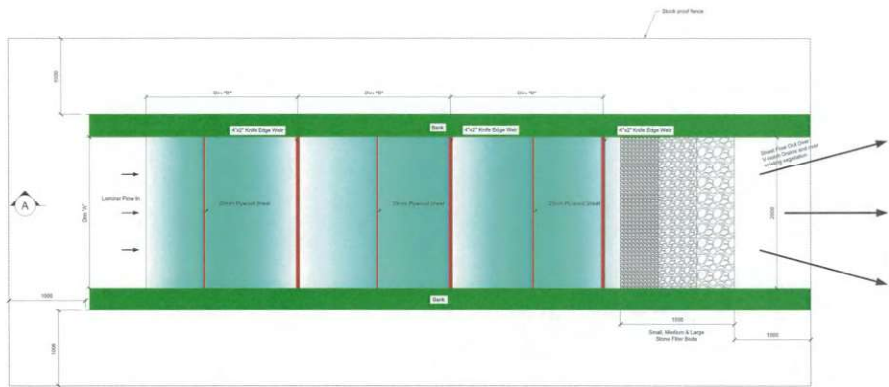
Client	Inchamore Wind DAC
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork
Stage	Planning
Title	Drainage Details Sheet 2 of 4

Scales			
As Noted @ A3			
Surveyed	Prepared by	Checked	Date
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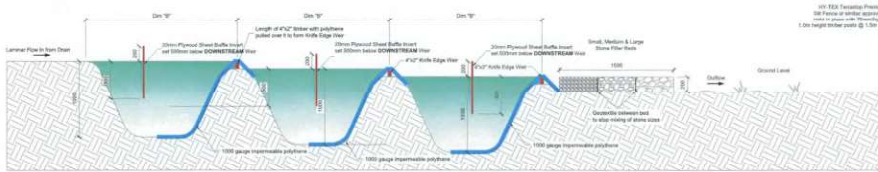
J&P No.	Drawing No.	Figure No.	Revision
6226	PL-302	2.12	



PLAN VIEW OF SETTLEMENT PONDS (WITH DISCHARGE TO DRAINS WHERE APPLICABLE)

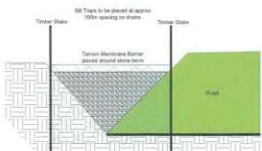
SCALE: 1:25

Note:
Please refer to EIA Appendix 2.1, Management Plan 3: Surface Water Management Plan for the details of each proposed stilling pond.



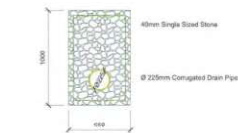
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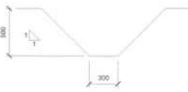
SEDIMENT FENCE DETAIL

SCALE: 1:25



PERMANENT PERIPHERAL LAND DRAIN

SCALE: 1:25



TEMPORARY "V" DITCH DRAIN PROFILE

SCALE: 1:25



COMPLETED SETTLEMENT POND SYSTEM

SCALE: NTS

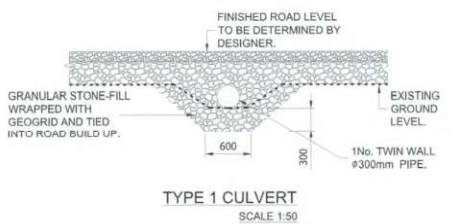
Rev.	Modification	By	Checked	Date

Client	Inchamore Wind DAC
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork
Stage	Planning
Title	Drainage Details Sheet 3 of 4

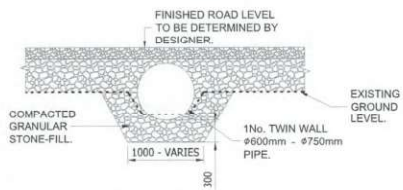
Scale	As Noted @ A3		
Surveyed	Prepared By	Checked	Date
	A.M.H.C.	S.M.	31-03-2023

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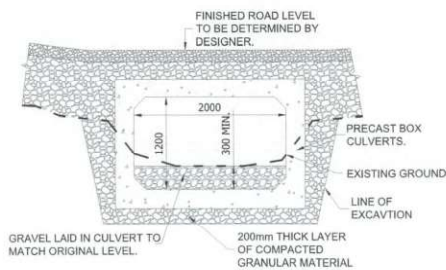
Job No.	Drawing No.	Figure No.	Revision
6226	PL-303	2.13	



TYPE 1 CULVERT
SCALE 1:50



TYPE 2 CULVERT
SCALE 1:50



TYPE 3 CULVERT
SCALE 1:50

NOTE:

CULVERTS ARE TO BE OF ADEQUATE SIZE TO CARRY PEAK FLOWS CORRESPONDING TO A 1 IN 100 YEAR STORM EVENT, WITH A MINIMUM DIAMETER OF 900mm. THEY SHOULD BE INSTALLED TO CONFORM WHEREVER POSSIBLE TO THE NATURAL SLOPE AND ALIGNMENT OF THE STREAM OR DRAINAGE LINE. CULVERTS GREATER THAN 1m DIAMETER SHOULD BE BURIED TO A MINIMUM DEPTH OF 300mm BELOW THE STREAMBED AND THE ORIGINAL BED MATERIAL PLACED IN THE BOTTOM OF THE CULVERT.

1. FORMATION LEVEL TO BE DETERMINED BY THE CIVIL WORKS DESIGNER. REFER TO SITE INVESTIGATIONS REPORT.

2. SUB BASE MATERIAL TO CONFORM TO THE FOLLOWING:

IMPORTED MATERIAL TO CONFORM TO TYPE 6F1 IN ACCORDANCE WITH TABLE 6/2 OF THE NRA SPECIFICATION FOR ROAD WORKS.

SITE WON MATERIAL ROCK WON IN EXCAVATION OF TURBINES MUST BE CRUSHED AND GRADED ON SITE. THE MAXIMUM SIZE OF AGGREGATE TO BE 125mm. THE AGGREGATE GRADING TO BE AGREED WITH THE ENGINEER.

3. SURFACE LAYER TO BE CLAUSE 804. THIS LAYER MAY BE APPLIED IMMEDIATELY BEFORE TURBINE DELIVERY.

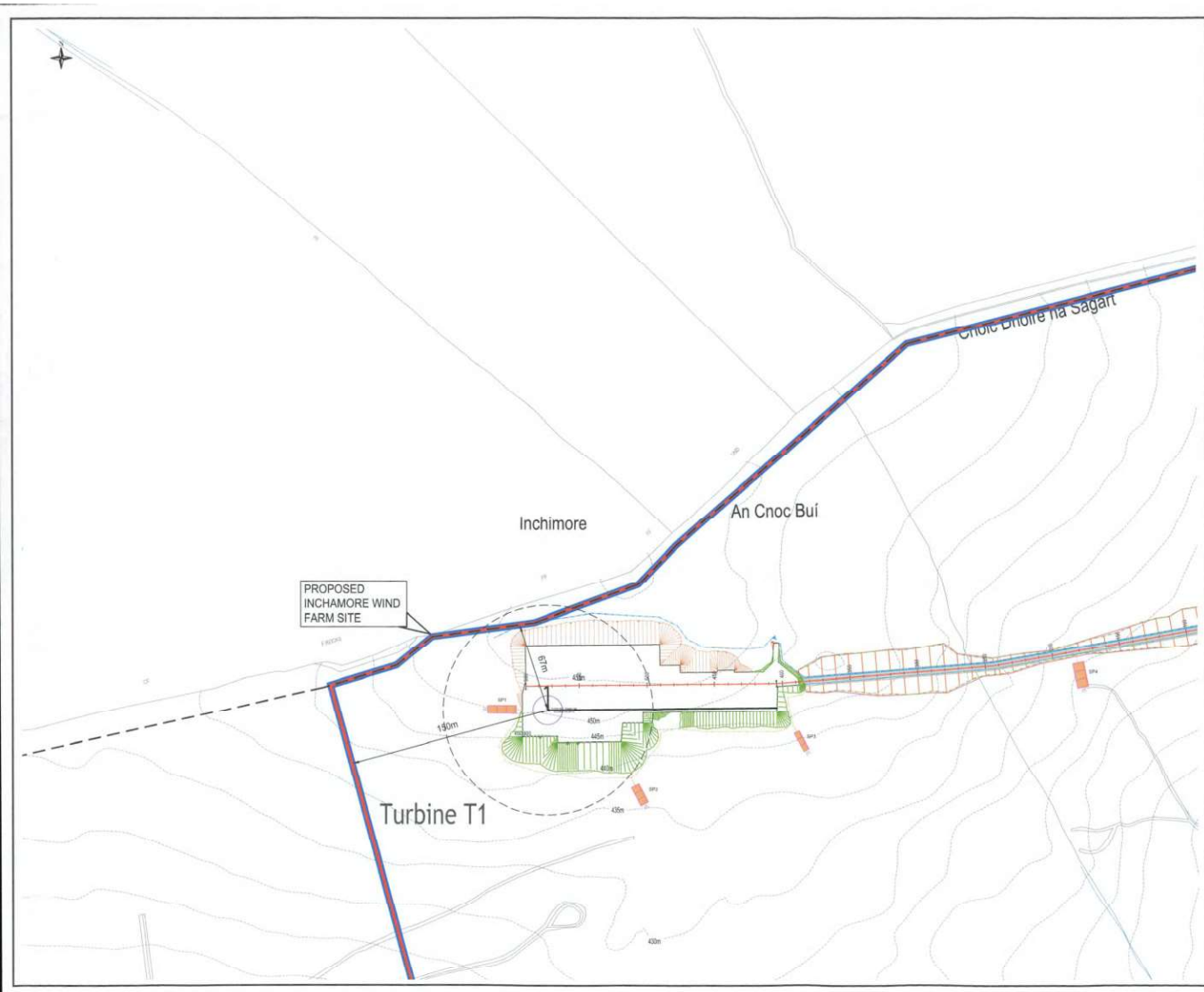
Rev	Description	By	Check	Date

Client	Inchamore Wind DAC
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork
Stage	Planning
Title	Drainage Details Sheet 4 of 4

Scale	As Noted @ A3		
Surveyed	Prepared By	Checked	Date
	A.M.C.	L.R.	31-05-2023

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Job No.	Drawing no.	Figure no.	Revision
6226	PL-304	2.14	



Legend

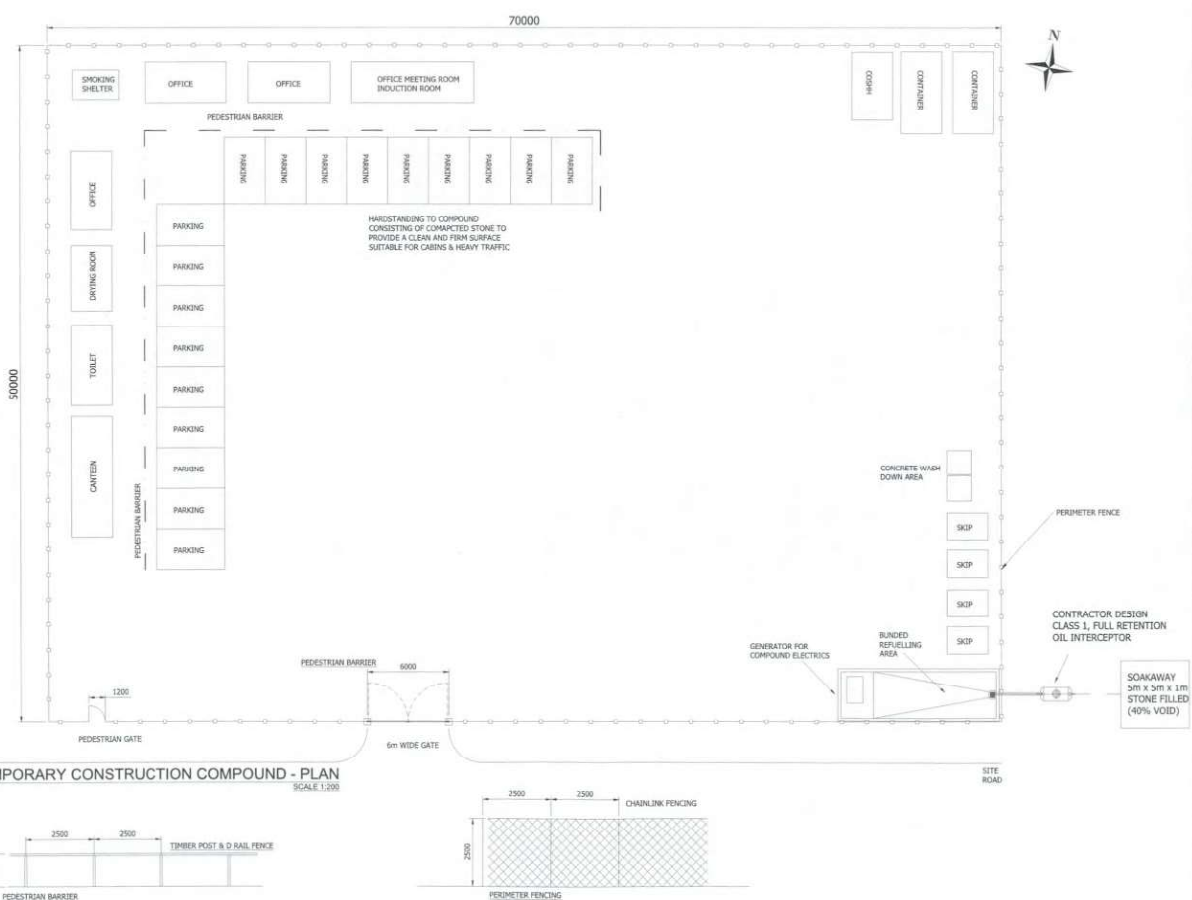
- Land where the Applicant has ownership of beneficial interest
- Planning Application Boundary
- Proposed Wind Turbine
- Proposed Crane Handstand
- Proposed Site Access Road
- Existing Site Road to be upgraded
- Proposed Cut Area
- Proposed Filled Area
- Dirty Water Drain
- Clean Water Drain
- Culvert
- Settlement Pond
- Buffered Outlet
- Watercourse Crossing
- Existing Watercourse
- Existing Watercourse with 65m buffer
- Proposed Service Pit
- Proposed Meteorological Mast
- Proposed Temporary Construction Compound
- Contours of existing ground elevation
- County border

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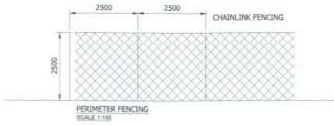
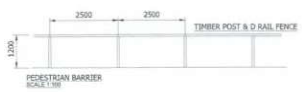
Client	Inchamore Wind DAC
Project	Proposed Wind Farm at Inchamore, Coolea, Co. Cork
Stage	Planning
Title	Site SP Sheet 3 of 8
Scale	1:2500 @ A3
Surveyed	Prepared By: A.M.C. Checked: S.M. Date: 28-04-2023

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Job No.	Drawing No.	Figure No.	Revision
6226	6226-PL-103	2.15	



TEMPORARY CONSTRUCTION COMPOUND - PLAN
SCALE 1:250



Rev.	Modification	By	Date

Client: **Inchamore Wind DAC**

Project: **Proposed Wind Farm at Inchamore, Coolea, Co. Cork**

Stage: **Planning**

Title: **Temporary Contractors Compound**

Scales: **1:200 & 1:100 @ A3**

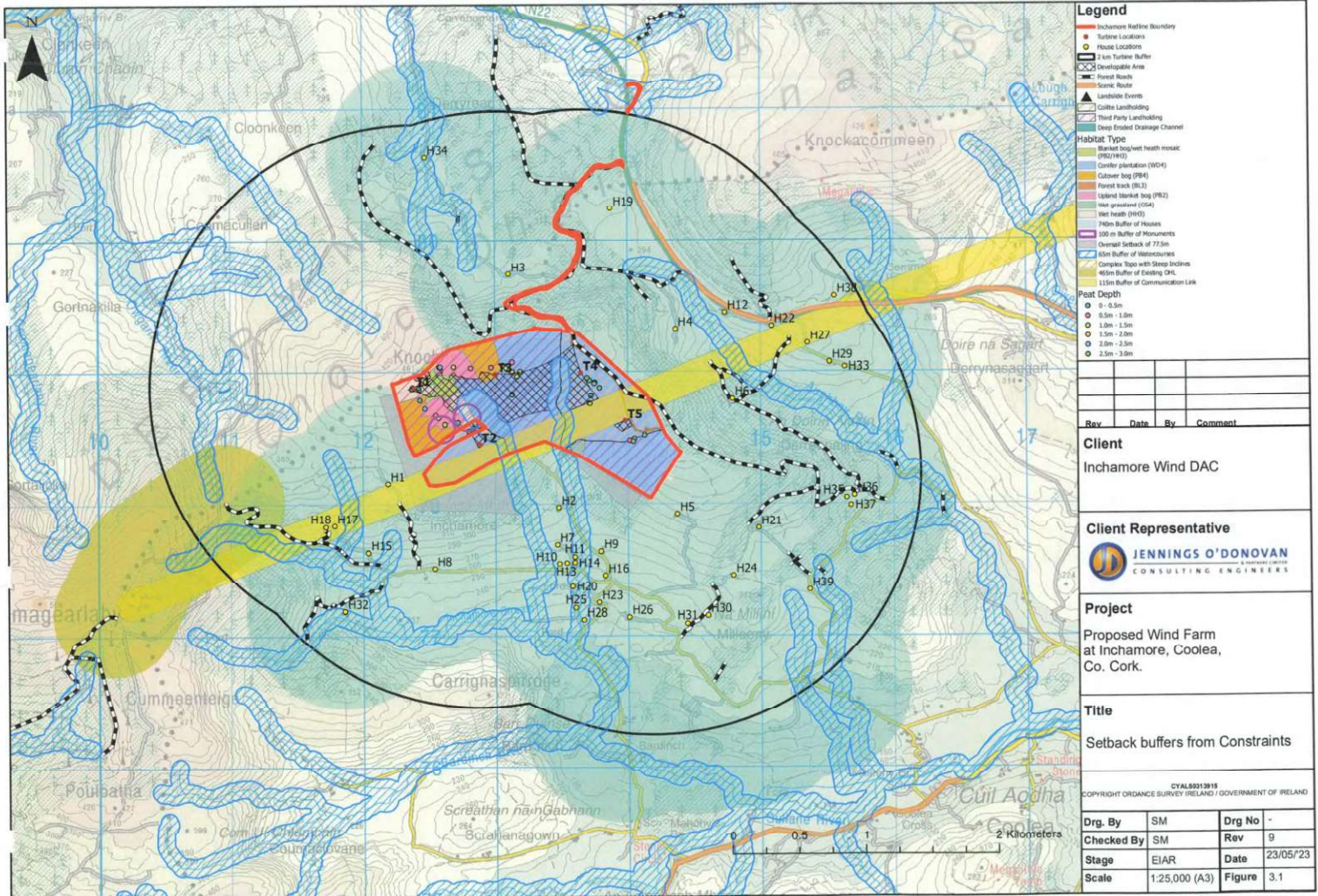
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Job No.	Drawing no.	Figure no.	Revisions
6226	6226-PL-803	2.16	





Legend

- Inchamore Redline Boundary
- Turbine Locations
- 2 km Turbine Buffer
- Developable Area
- Forest Roads
- Granic Roads
- Granic Route
- Landslide Events
- Cliff Landholding
- Third Party Landholding
- Deep Eroded Drainage Channel

Habitat Type

- Blanket bog/wet heath mosaic (PB2/PB3)
- Comber plantation (PB4)
- Culm bog (PB4)
- Forest track (BL3)
- Upland blanket bog (PB2)
- Wet heath (H43)
- 700m Buffer of Houses
- 100 m Buffer of Monuments
- Overall Setback of 77.5m
- 60m Buffer of Watercourses
- Complex Topo with Steep Slopes
- 600m Buffer of Existing OHL
- 115m Buffer of Communication Link

Peat Depth

- 0 - 0.5m
- 0.5m - 1.0m
- 1.0m - 1.5m
- 1.5m - 2.0m
- 2.0m - 2.5m
- 2.5m - 3.0m

Rev	Date	By	Comment

Client
Inchamore Wind DAC

Client Representative

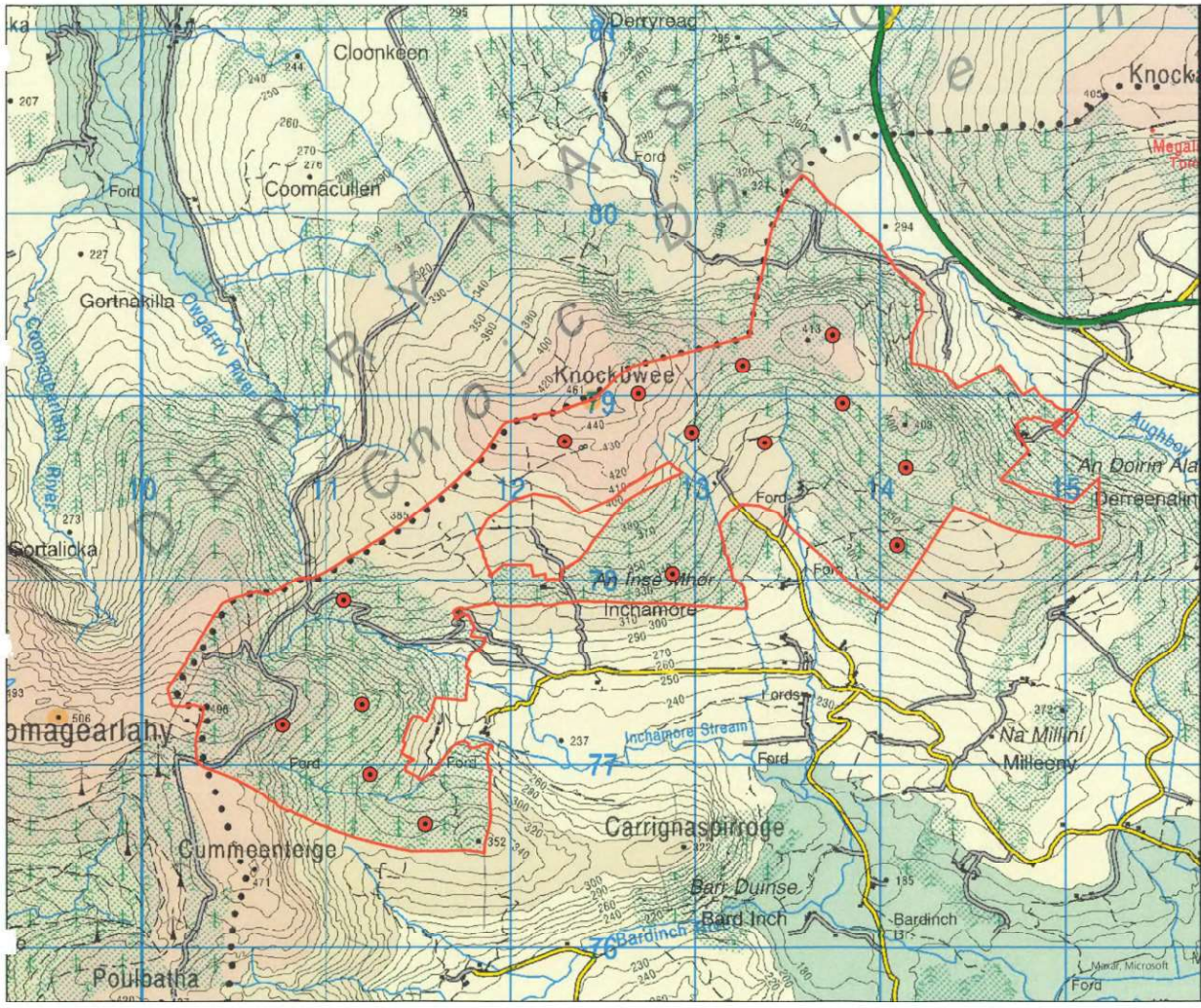
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Project
Proposed Wind Farm at Inchamore, Coolea, Co. Cork.

Title
Setback buffers from Constraints

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Checked By	SM	Rev	9
Stage	EIAR	Date	23/05/23
Scale	1:25,000 (A3)	Figure	3.1



Legend

- Turbines
- Site Boundary

Rev	Date	By	Comment

Client
Inchamore Wind DAC

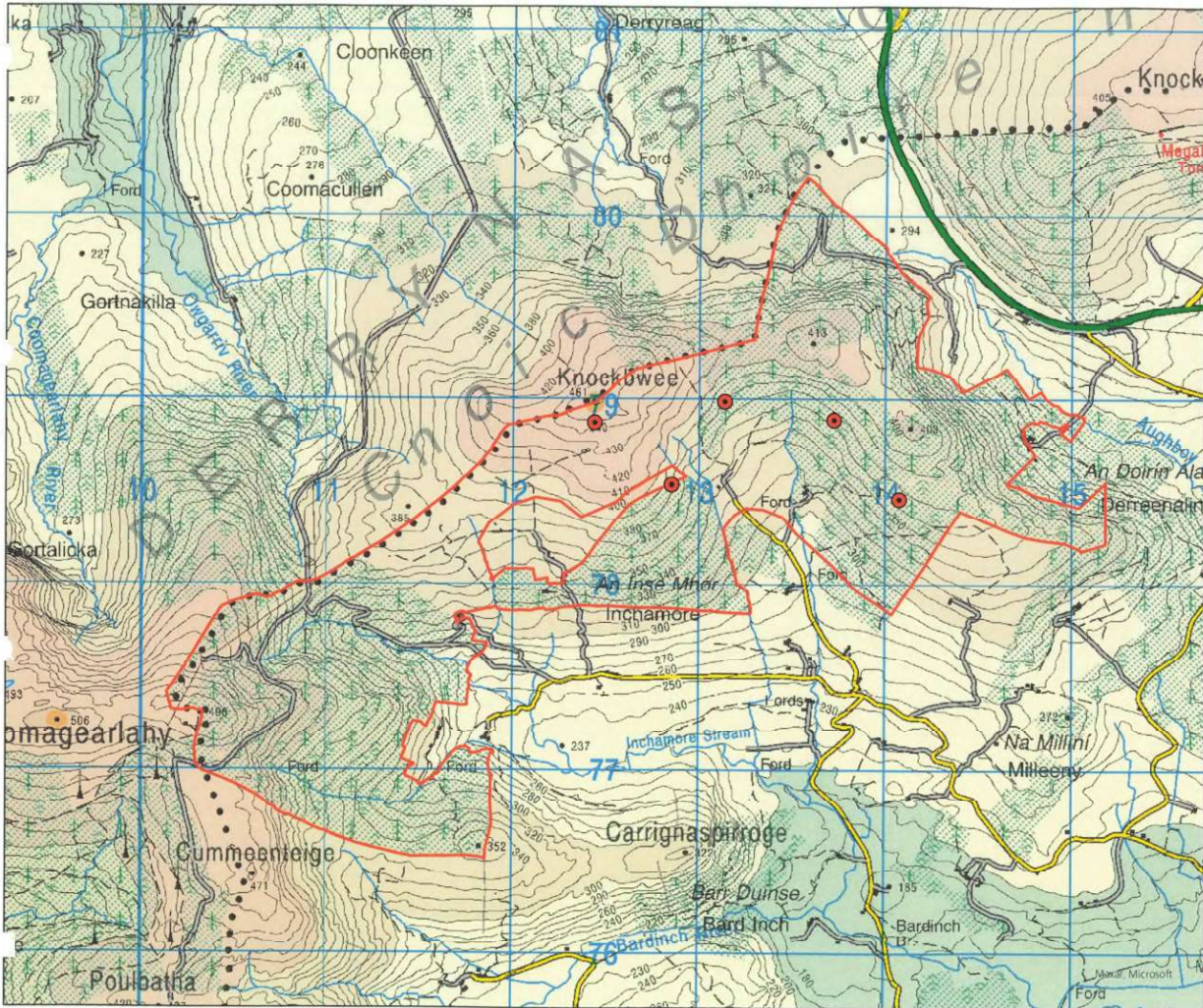
Client Representative
JENNINGS O'DONOVAN
CONSULTING ENGINEERS

Project
Proposed Wind Farm at Inchamore, Coolea Co. Cork.

Title
15 Turbine Layout

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Drg. By	SME	Drg No	-
Checked By	SM	Rev	1
Stage	EIAR	Date	07/11/22
Scale	1:20,000 (A3)	Figure	3.2a



Legend
 Site Boundary

Rev	Date	By	Comment

Client
 Inchamore Wind DAC

Client Representative


Project
 Proposed Wind Farm at Inchamore, Coolea Co. Cork.

Title
 5 Turbine Layout

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Drw. By	SME	Drw. No.	-
Checked By	SM	Rev	1
Stage	EIAR	Date	07/11/22
Scale	1:20,000 (A3)	Figure	3.2b