

Appendix 15-4- Road Safety Audit (RSA)



24032-02-001

PROPOSED WINDFARM DEVELOPMENT AT DERRYADD, CO. LONGFORD.

Road Safety Audit Stage 1

for

TOBIN

SEPTEMBER 2024



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DOCUMENT CONTROL SHEET

Project Title	Proposed Windfarm Development at Derryadd, Co. Longford
Project No.	24032-02
Client	TOBIN CONSULTING
Document Title	Road Safety Audit Stage 1
Document No.	24032-02-001

Status	Author(s)	Reviewed By	Approved By	Issue Date
Draft 1	AG / GF	AG / GF	GF	9/8/2024
Final	AG / GF	AG / GF	GF	5/9/2024

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1. INTRODUCTION

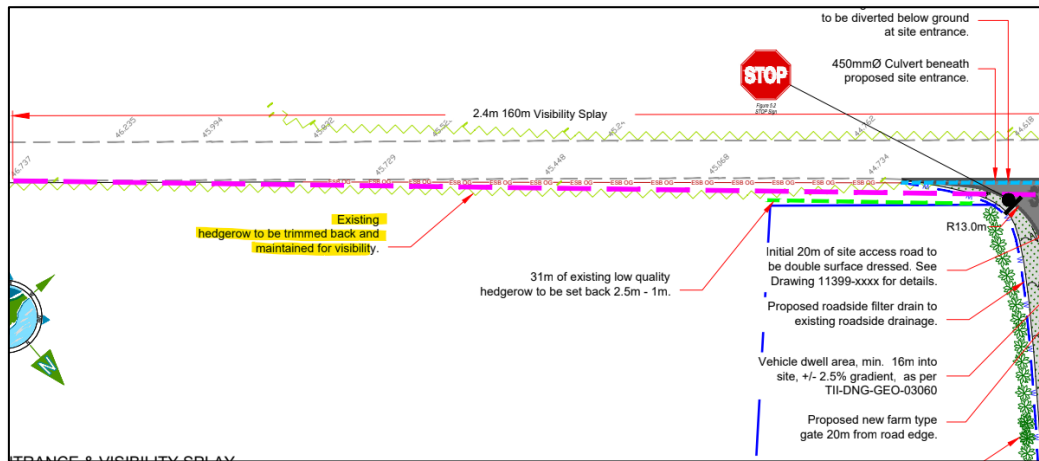
- 1.1 This report describes a Stage 1 Road Safety Audit carried out at a proposed windfarm development in Co. Longford. The development is proposed for a section of disused boglands belonging to Bord Na Mona in the townland of Derryadd just off the N63. The initial audit was carried out on 8th August 2024 in the offices of Roadplan Consulting, Kilkenny.
- 1.2 The audit team members were as follows:
 - George Frisby, BE CEng MIEI
Auditor Number GF51255
 - Adrian Gildea, BEng MIEI
Auditor Number AG7435152
- 1.3 Both audit team members initially visited the site on the 13th of March 2024. The audit comprised of an examination of the drawings relating to the scheme supplied by TOBIN and an examination of the site.
- 1.4 A follow up site visit was carried out on the 31st July. This was to examine additional access points on the N63 and the R398.
- 1.5 The proposed development exits on the R392 and R398 where the speed limit is 80km/h and onto the N63 where the speed limit is 100km/h.
- 1.6 This Stage 1 Audit has been carried out in accordance with the relevant sections of TII GE-STY-01024. The team has examined only those issues within the design relating to the road safety implications of the scheme and has therefore not examined or verified the compliance of the design to any other criteria.
- 1.7 All problems described in this report are considered by the audit team to require action in order to improve the safety of the scheme and minimise accident occurrence.
- 1.8 Appendix A contains copies of the audited drawings.

2. STAGE 1 AUDIT

Location: Proposed Site Access A – R392

2.1 **Problem:** Visibility Splays

The design drawings indicate existing hedgerows to be trimmed and maintained for visibility when exiting the site. A lack of a programme of maintenance, issues of ownership of the boundary and regrowth over time may result in the visibility splays being reduced. This may contribute to collisions at the junction when vehicles are exiting the site.



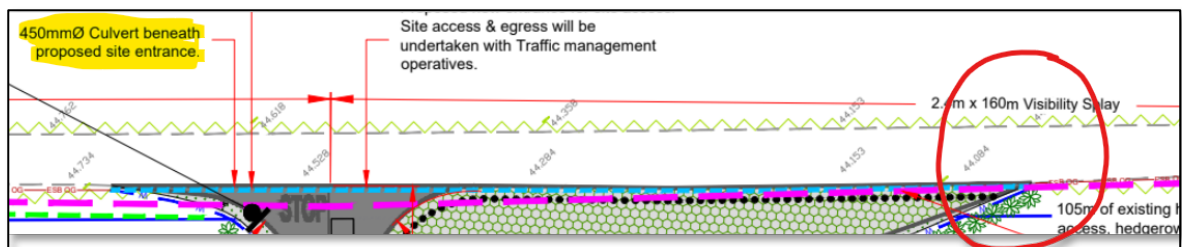
Recommendation:

Ensure adequate visibility splays are provided and maintained. Remove the hedge/verge boundary for the extents of the visibility splays.

Location: Adjacent to the Proposed Site Access A – R392

2.2 **Problem:** Water Ditch Works

An existing watercourse runs parallel to the R392. At the time of the audit, there was a large volume of water in the drain. The design drawing indicates that a culvert will be installed under the site access. This may result in a culvert headwall being constructed within the clearzone on the western approach to the site access. An errant vehicle leaving the road may collide with the culvert headwall.



Recommendation:

Ensure any roadside drainage works within the clearzone for an 80kph road are compliant with the relevant design standards. Provide appropriate mitigation measures if applicable.

Location: Proposed Site Access B - R398

2.3 **Problem:** Visibility Splays

The design drawings indicate that some existing hedgerows are to be set-back for visibility when exiting the site while other sections are to be retained. A lack of a programme of maintenance, issues of ownership of the boundary and regrowth over time may result in the visibility splays being reduced. This may contribute to collisions at the junction when vehicles are exiting the site.



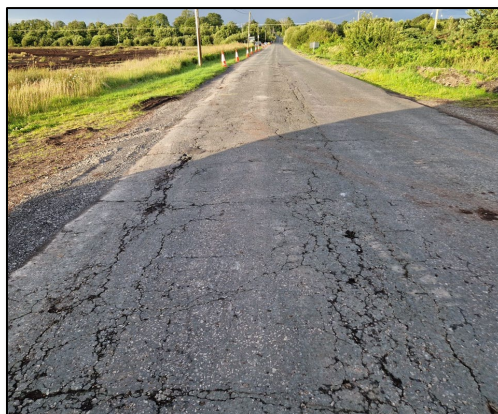
Recommendation:

Ensure adequate visibility splays are provided and maintained. Remove the hedge/verge boundary for the extents of the visibility splays.

Location: Proposed Site Access B - R398

2.4 **Problem:** Deteriorated Road Surface

The site visit indicates the existing road surface is in very poor condition in places, particularly adjacent to the proposed site entrance. Some road works were taking place at the time of the site visit; however, the extent of the road works is unknown. Heavy construction vehicles using this road for the construction of the project may exacerbate the condition of the road further. This may lead to unsafe conditions for motorists and cyclists.



Recommendation:

Ensure construction works do not result in unsafe road conditions for users at this location.

Location: Proposed Site Access C - N63

2.5 **Problem:** Visibility Splays

The design drawings indicate that some existing hedgerows are to be set-back for visibility when exiting the site while other sections are to be retained. A lack of a programme of maintenance, issues of ownership of the boundary and regrowth over time may result in the visibility splays being reduced. This may contribute to collisions at the junction when vehicles are exiting the site.



Recommendation:

Ensure adequate visibility splays are provided and maintained. Remove the hedge/verge boundary for the extents of the visibility splays.

Location: All site accesses

2.6 **Problem:** Loose Chippings

The design drawings indicate a road surface of double surface dressing at the proposed site entrances. Heavy vehicles exiting the site may result in loose chippings being dragged onto the public road. Users of the regional road may not expect such loose chippings on the surface. This may result in vehicles and cyclists losing control resulting in collisions and injury.

Recommendation:

Construct a bounded surface at the site accesses in lieu of surface dressing.

Location: All site accesses

2.7 **Problem:** Vehicles Stopping Abruptly

Vehicles accessing the site, particularly large and oversized trucks may stop abruptly on the public as they approach the site entrances. Motorists using the public road may not expect such sudden manoeuvres. This may result in rear end collisions.

Recommendation:

Provide appropriate road warning signage to indicate the presence of the site accesses.

Location: All site accesses

2.8 **Observation:** Site Access/Egress

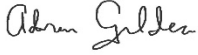
No details are provided relating to the delivery of oversize windfarm components. All access and egress points to the site have an Autotrack assessment, however this is only for 16.5m long trucks. Ensure the design detail considers the delivery of oversize windfarm components.

3. AUDIT TEAM STATEMENT

- 3.1 We certify that we have examined the drawings listed in Appendix A and have inspected the site. This examination has been carried out with the sole purpose of identifying any features of the scheme that could be removed or modified to improve the safety of the scheme.

Signed.....  George Frisby

Date 8th August 2024.....

Signed.....  Adrian Gildea

Date 8th August 2024.....

4. SAFETY AUDIT FEEDBACK FORM

Scheme: Windfarm Development at Derryadd, Co. Longford.

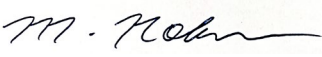
Document Number: 24032-02-001

Audit Stage: Stage 1 RSA

Date Audit Completed: 8th August 2024

Paragraph No. in Safety Audit Report	To Be Completed By Designer			To Be Completed by Audit Team Leader
	Problem accepted (yes/no)	Recommended measure Accepted (yes/no)	Describe alternative measure(s). Give reasons for not accepting recommended measure. Only complete if recommended measure is not accepted.	Alternative measures or reasons accepted by auditors (yes/no)
2.1	Yes	No	Hedgerow on clients land is being set back. Hedgerow on third party land is to be trimmed and maintained as per programme of maintenance agreement between client and landowner.	Yes
2.2	Yes	No	No headwall is required within clearzone nor is any new hazards being created.	Yes
2.3	Yes	Yes	-----	-----
2.4	Yes	Yes	-----	-----
2.5	Yes	No	Lands are not within the red line boundary of the scheme .Client will liaise with LA to include the vegetation as part of the annual maintenance.	Yes
2.6	Yes	Yes	-----	-----
2.7	Yes	Yes	-----	-----

Safety Audit

Signed off  Design Team Leader

Print Name Michael Nolan

Date 04/09/24

Safety Audit

Signed offLeo Cox..... Employer

Print NameLeo Cox.....

Date04/09/24.....

Safety Audit

Signed off  **Audit Team Leader**

Print NameGeorge Frisby.....

Date ...5/9/2024.....

Please complete and return to:

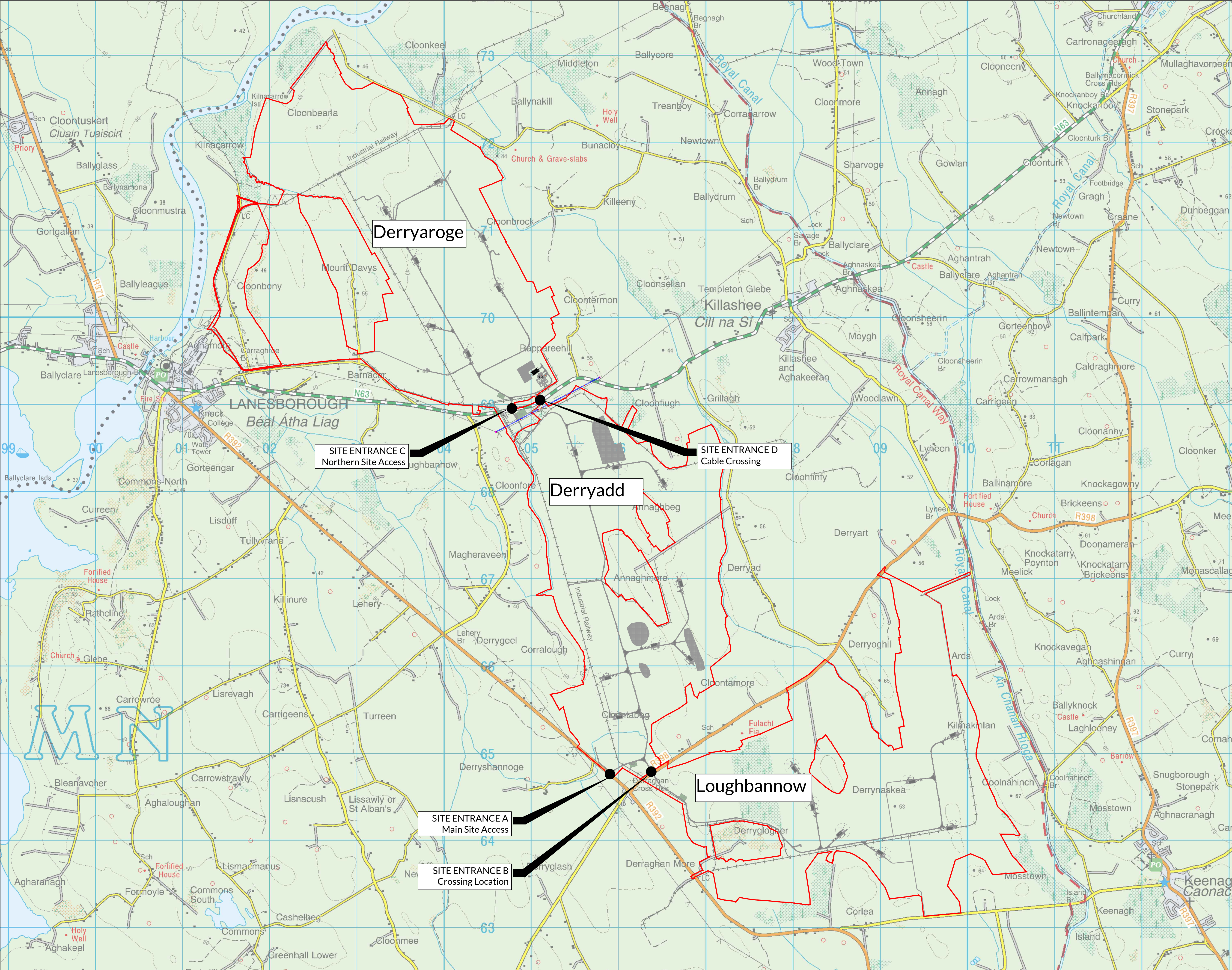
Roadplan Consulting,
7, Ormonde Road
Kilkenny
E-mail: info@roadplan.ie

APPENDIX A

List of Drawings Examined

The following drawings have been provided electronically in PDF format by Tobin Consulting are appended.

Drawing Number	Rev	Drawing Title
11399-1000	D01	Regional Site Location
11399-040-Access-Lay.INFR-TOB-A	A	Figure 15-5 Proposed Site Accesses
11399-1005	D01	Site Access A – R392
11399-2010	D02	Site Master Plan
11399-2052	D02	Site Access B – R398
11399-2053	D02	Site Access B – R398
11399-2054	D02	Site Entrance Details & Visibility Sightlines
11399-2055	D02	Site Access C – N63
11399-2056	D02	Site Access C – N63



- NOTES:
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

D01	24.05.23	DRAFT ISSUE FOR REVIEW	MN	IH
Rev	Date	Description	By	Chkd.

Bord na Móna

Project:
DERRYADD WIND FARM

Title:
REGIONAL SITE LOCATION

Scale @ A1: 1:20,000

Prepared by: M. Nolan
Checked by: I. Heanue
Date: May 2023

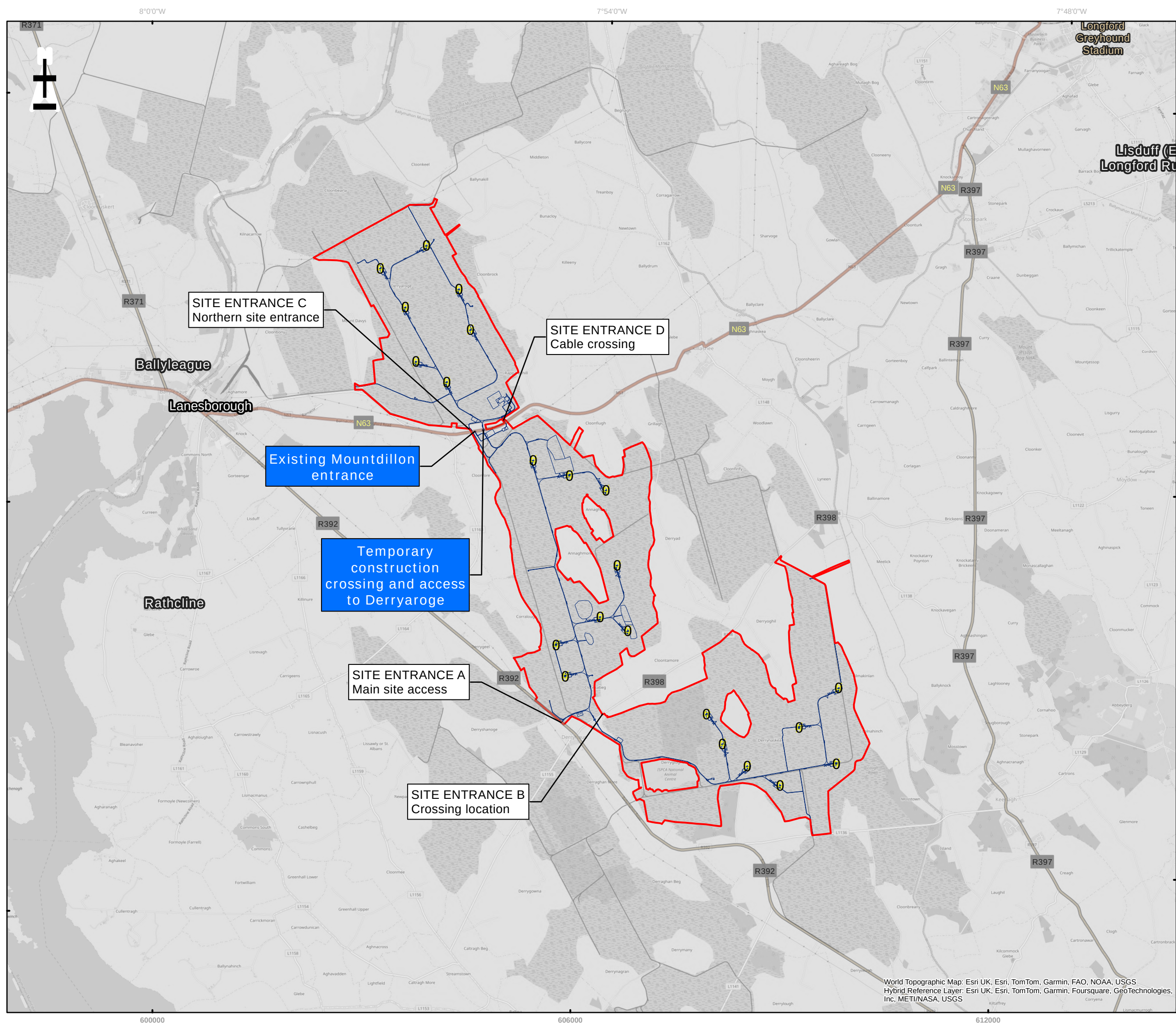
Drawing Status: Draft

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CONSULTING ENGINEERS

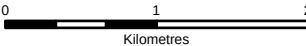
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Drawing No.: 11399-1000
Revision: D01



- Legend**
- Proposed wind farm site boundary
 - Final Turbine Layout BnM 20230124
 - Site Layout BnM 2023



- NOTES**
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 - ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
 - ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

A	30/01/2024	First issue	S.P	J.S
Rev	Date	Description	By	Chkd.

Client:

Bord na Móna

Project:

Derryadd Wind Farm

Title:

**Figure 15-5
Proposed Site Accesses**

Scale @ A3: 1:50,000

Prepared by: S.Pezzetta
Checked by: J.Staunton
Date: January 2024

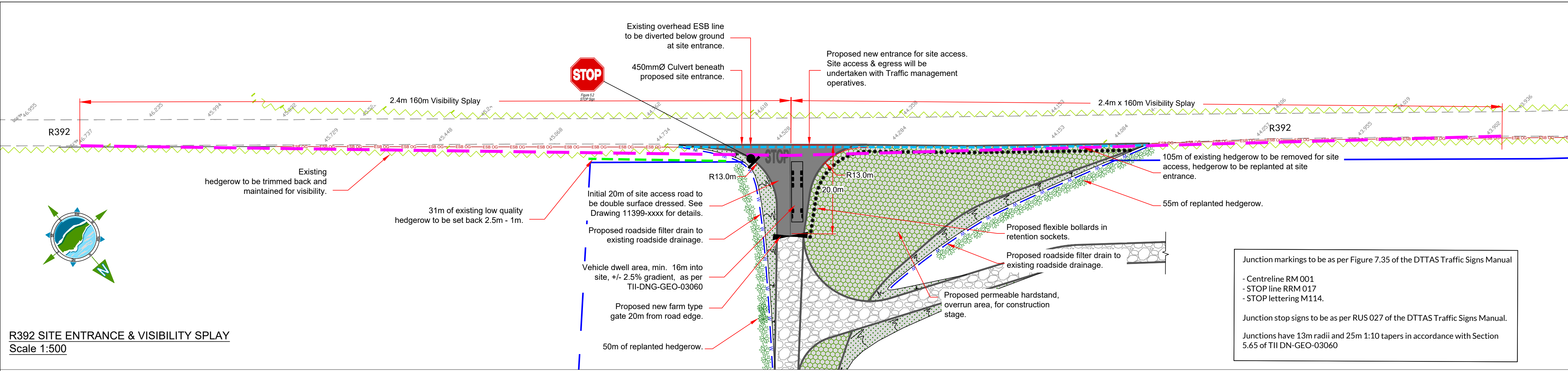
TOBIN

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Map Ref: 11399-040-ACCESS-LAY.INFR-TOB-A

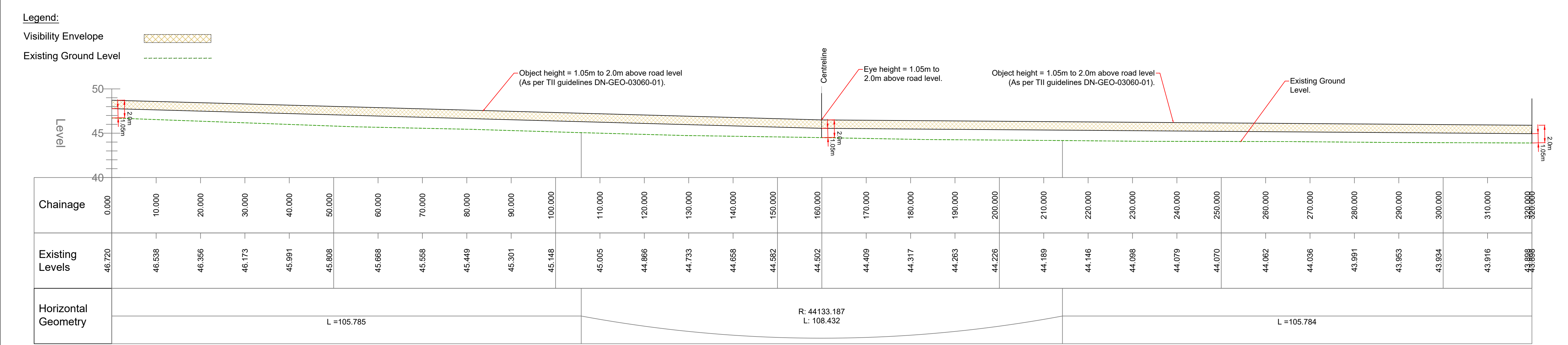
Draft: A

World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS
Hybrid Reference Layer: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS



GENERAL LEGEND	
VISIBILITY SIGHTLINES (3.0m Setback from Road)	ROAD EDGE
PROPOSED ROAD SIDE DRAINAGE CHANNEL	PROPOSED SET BACK HEDGEROW
PROPOSED 450mmØ DRAINAGE CULVERT	EXISTING HEDGEROW
EXISTING ESB OVERHEAD LINE	PROPOSED HEDGEROW REPLANTING

AUTOTRACK VEHICLE DETAILS	
Articulated Vehicle with Twin Steered Tractor	16.500m
Overall Length	2.550m
Overall Width	3.691m
Overall Body Height	0.426m
Min Body Ground Clearance	2.500m
Max Track Width	6.00s
Lock to lock time	6.987m
Kerb to Kerb Turning Radius	



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Rev	Date	Description	By	Chkd.
D01	08.06.23	DRAFT ISSUE FOR REVIEW	MN	IH

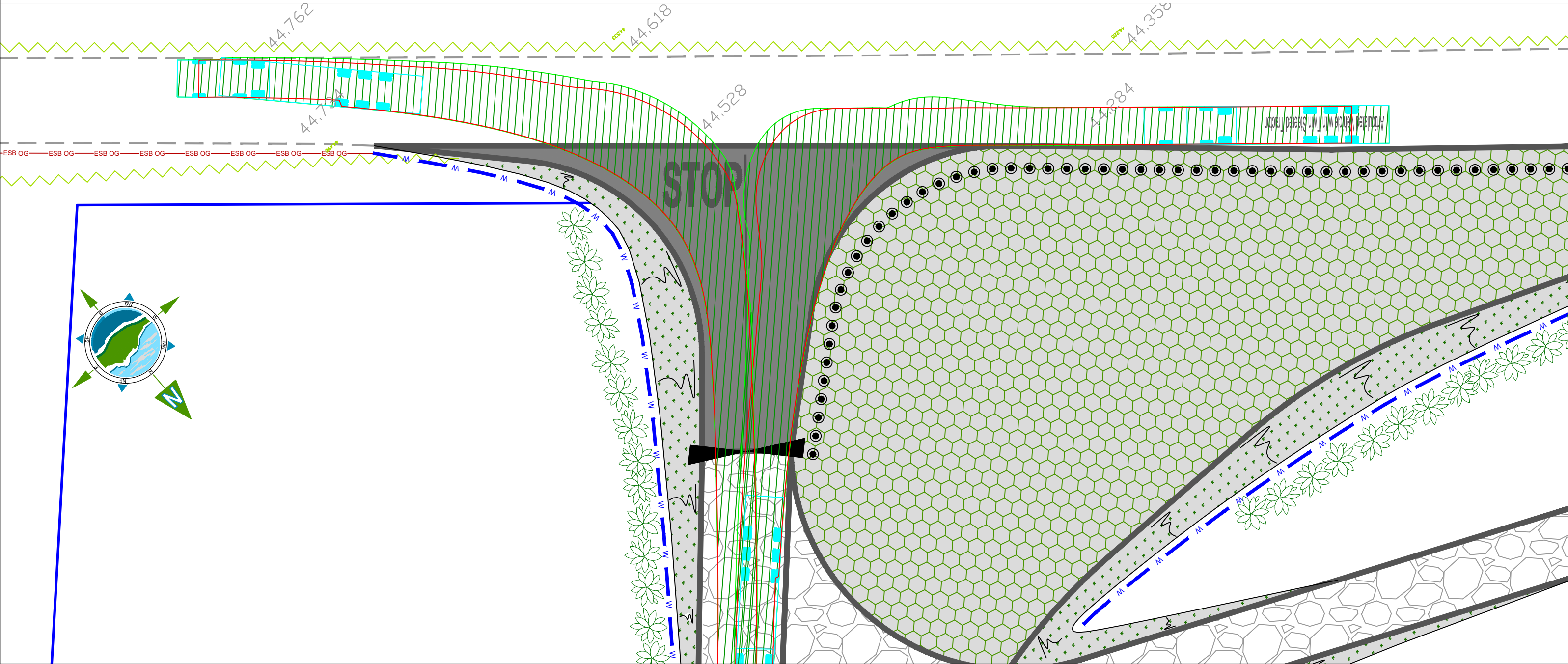
Bord na Móna

Project:
DERRYADD WIND FARM

Title:
**SITE ACCESS A - R392
AUTOTRACK ASSESSMENT,
SIGHT ENTRANCE DETAILS &
VISIBILITY SIGHTLINES**

Scale @ A1: **As Shown**
Prepared by: **M. Nolan** Checked by: **I. Heanue** Date: **May 2023**
Drawing Status: **Draft**

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Email: info@tobin.ie
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Drawing No.: **11399-1005** Revision: **D01**



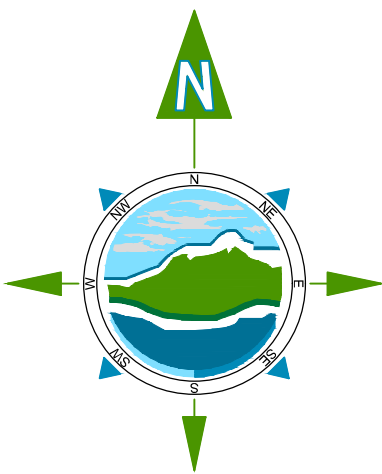
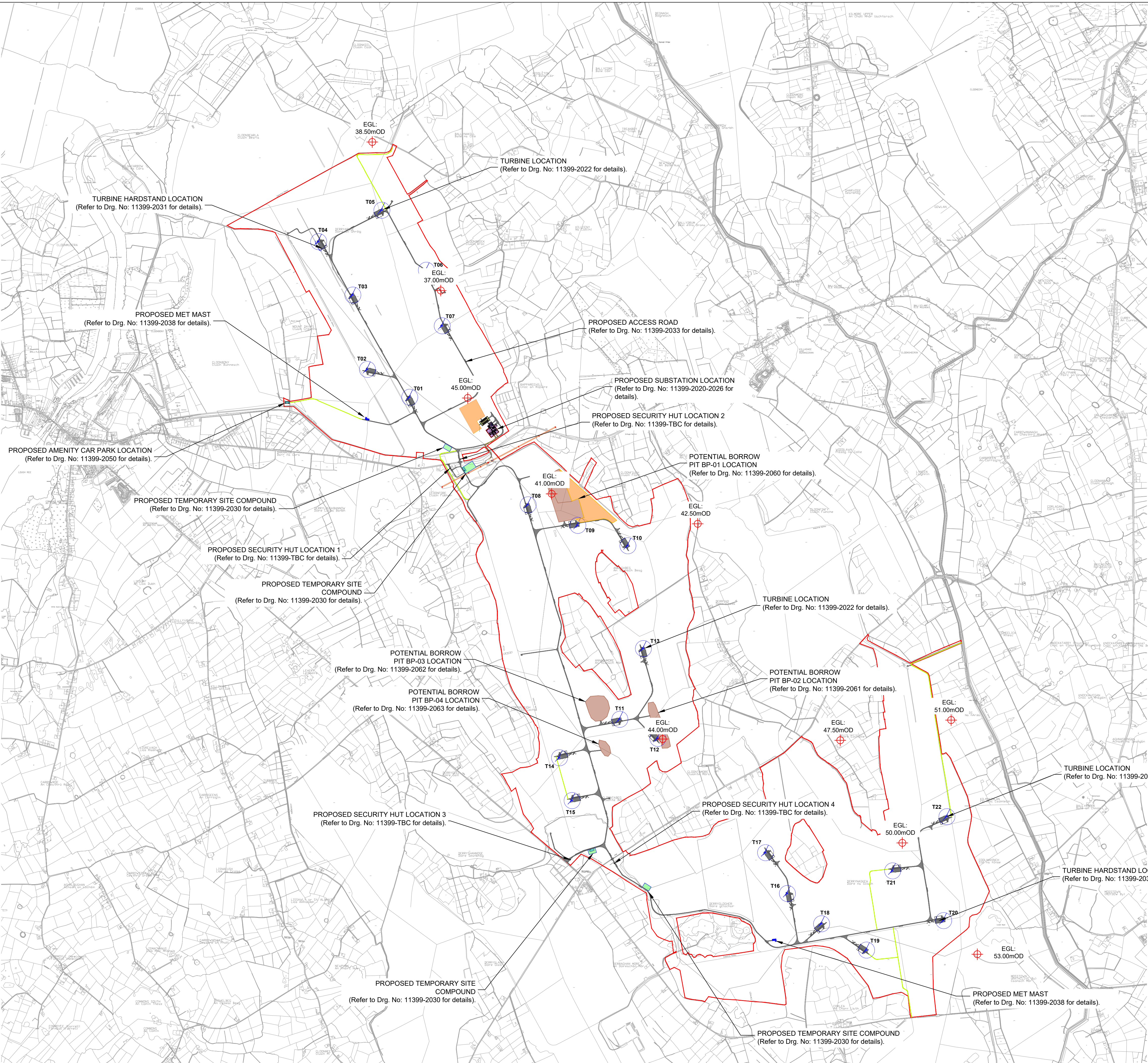
R392 AUTOTRACK ASSESSMENT - SITE ACCESS & EGRESS
Scale 1:250



VIEW TO RIGHT OF ENTRANCE
(West)



VIEW TO LEFT OF ENTRANCE
(East)



GENERAL LEGEND	
PLANNING APPLICATION BOUNDARY	
PROPOSED TURBINE HARDSTAND	PROPOSED TURBINE LOCATION
EXISTING OVERHEAD LINE	PROPOSED ACCESS TRACK
PROPOSED SUBSTATION LOCATION	PROPOSED BESS LOCATION
POTENTIAL PEAT DEPOSITION AREA	POTENTIAL BORROW PIT LOCATION
TEMP. CONSTRUCTION COMPOUND	PROPOSED AMENITY CAR PARK
PROPOSED SECURITY HUT	PROPOSED MET MAST
PROPOSED UG CABLE / GRID CONNECTION	PROPOSED AMENITY ACCESS TRACK

NOTES:

- DRAWINGS FOR PLANNING PURPOSES ONLY.
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
- GRID REFERENCES TO IRISH NATIONAL GRID.
- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

OSI 1:5,000 Sheet No's: 2355, 2356, 2417, 2418, 2419, 2486, 2487, 2555 & 2556.

OSI 1:2,500 Sheet No's: 2417-A, 2417-C, 2418-B & 2419-A.

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400m0400m800m1200m

D02	30.05.24	DRAFT ISSUE FOR REVIEW	MN	MN
Rev	Date	Description	By	Chkd.

Client:

Bord na Móna

Project:

DERRYADD WIND FARM

Title:

SITE MASTER PLAN

Scale @ A1:

1:20,000

Prepared by:

M. Nolan

Checked by:

I. Heanue

Date:

November 23

Drawing Status:

Draft

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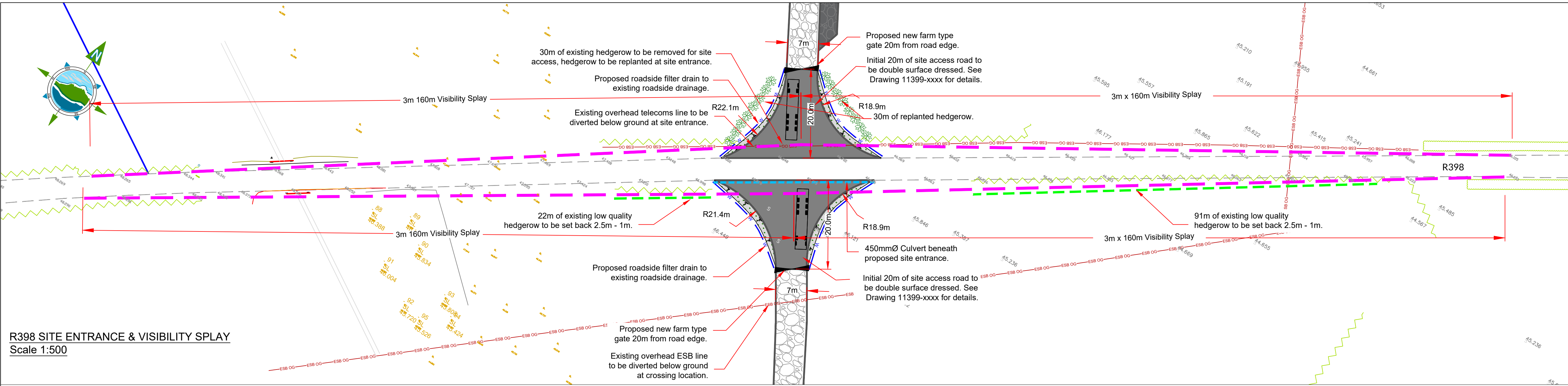
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Drawing No:

11399-2010

Revision:

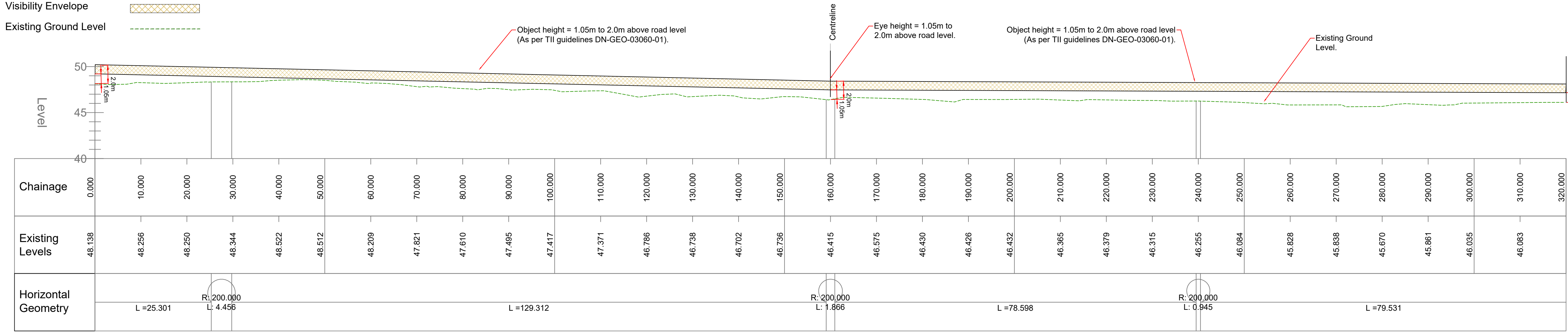
D02



R398 SITE ENTRANCE & VISIBILITY SPLAY
Scale 1:500

Legend:

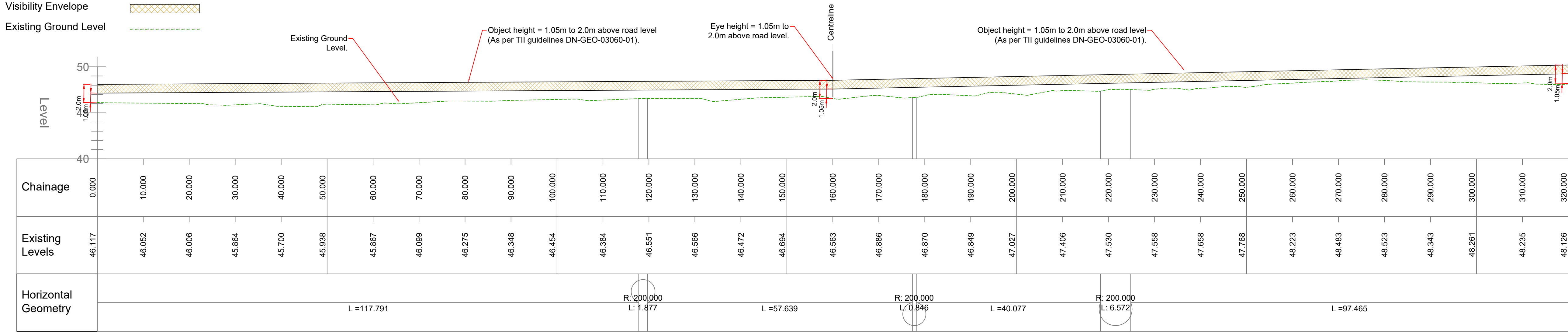
Visibility Envelope
Existing Ground Level



R398 VERTICAL PROFILE ALONG VISIBILITY SPLAY - SOUTHERN ENTRANCE (Loughbannow)
Scale H: 1:500 / V:1:250

Legend:

Visibility Envelope
Existing Ground Level



R398 VERTICAL PROFILE ALONG VISIBILITY SPLAY - NORTHERN ENTRANCE (Derryadd)
Scale H: 1:500 / V:1:250

GENERAL LEGEND

VISIBILITY SIGHTLINES
(3.0m Setback from Road)

PROPOSED ROAD SIDE
DRAINAGE CHANNEL

PROPOSED 450mmØ
DRAINAGE CULVERT

EXISTING ESB
OVERHEAD LINE

ROAD EDGE

PROPOSED SET BACK
HEDGEROW

EXISTING
HEDGEROW

PROPOSED HEDGEROW
REPLANTING

NOTES:

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- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

Rev	Date	Description	By	Chkd.
D02	13.06.24	DRAFT ISSUE FOR REVIEW	MN	IH
D01	08.06.23	DRAFT ISSUE FOR REVIEW	MN	IH

Bord na Móna

Project:

DERRYADD WIND FARM

Title:

SITE ACCESS B - R398
SITE ENTRANCE DETAILS &
VISIBILITY SIGHTLINES
CONSTRUCT & OPERATIONAL PHASE

Scale @ A1:

As Shown

Prepared by:
M. Nolan

Checked by:
I. Heanue

Date:
May 2023

Drawing Status:

Draft

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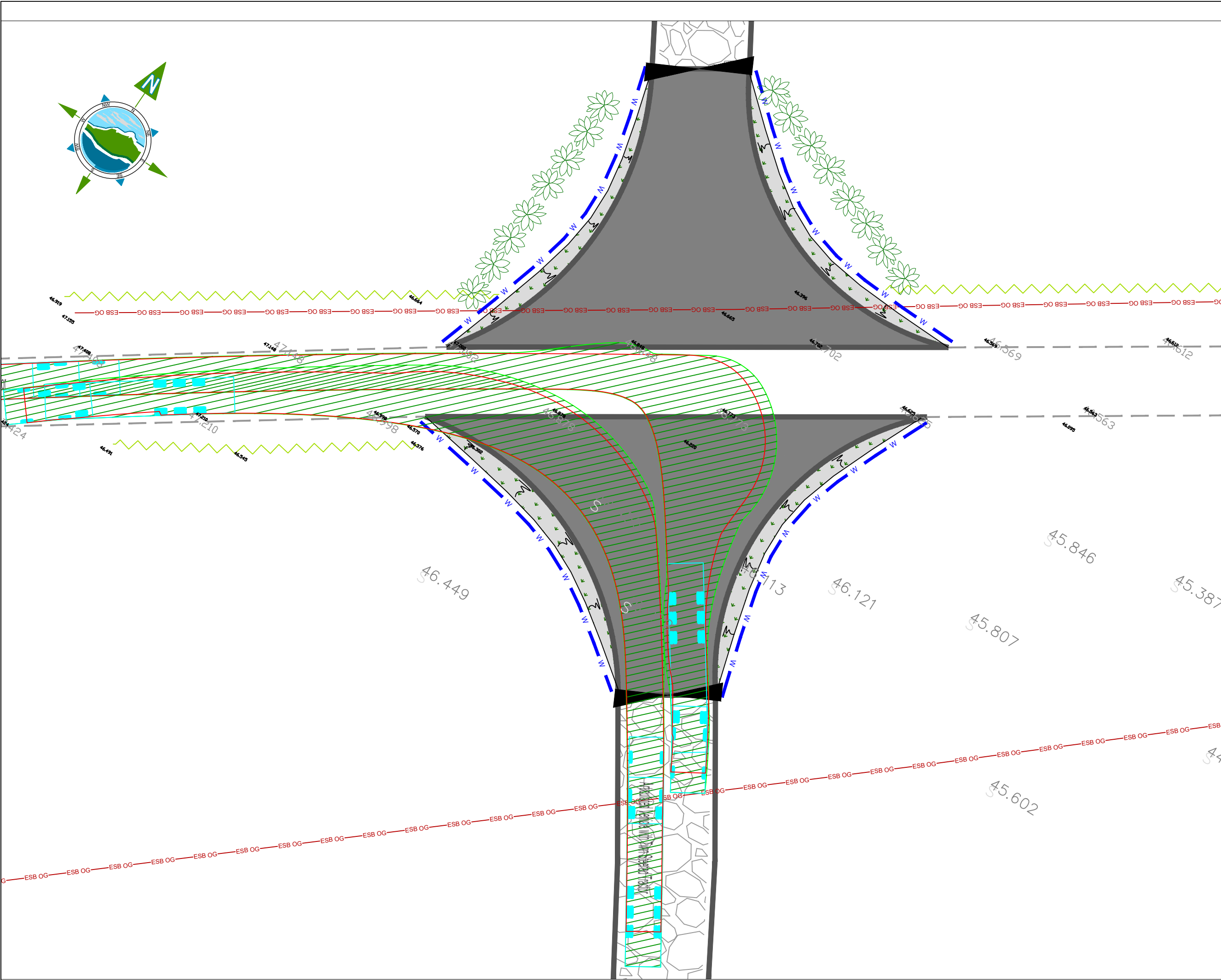
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Drawing No.:

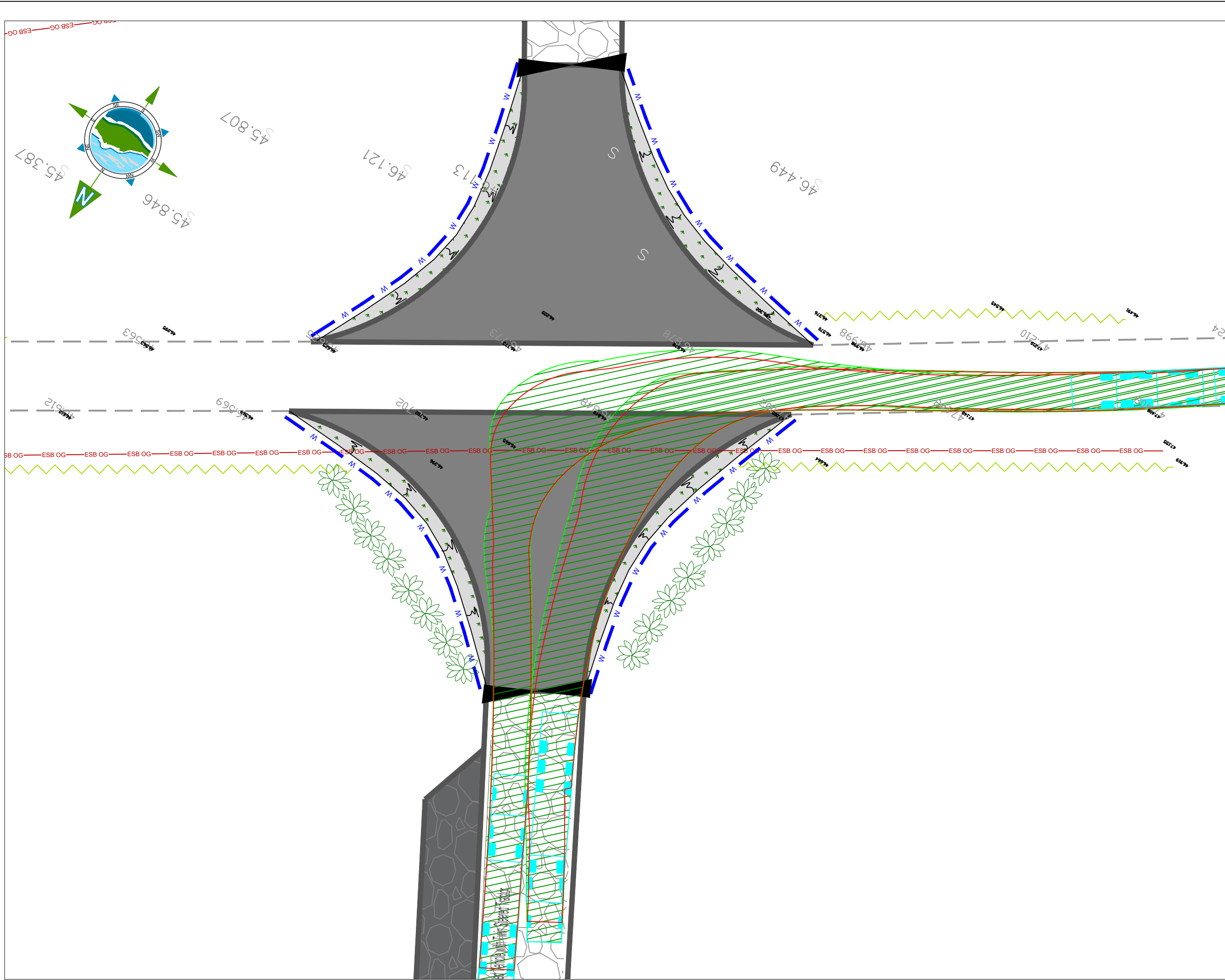
11399-2052

Revision:

D02



R398 AUTOTRACK ASSESSMENT - SITE ACCESS & EGRESS - SOUTHERN ENTRANCE (Loughbannow)
Scale 1:250



R398 AUTOTRACK ASSESSMENT - SITE ACCESS & EGRESS - NORTHERN ENTRANCE (Loughbannow)
Scale 1:250

GENERAL LEGEND	
VISIBILITY SIGHTLINES (3.0m Setback from Road)	ROAD EDGE
PROPOSED ROAD SIDE DRAINAGE CHANNEL	PROPOSED SET BACK HEDGEROW
PROPOSED 450mmØ DRAINAGE CULVERT	EXISTING HEDGEROW
EXISTING ESB OVERHEAD LINE	PROPOSED HEDGEROW REPLANTING

AUTOTRACK VEHICLE DETAILS

Articulated Vehicle with Twin Steered Tractor	16.500m
Overall Length	16.500m
Overall Width	2.550m
Overall Body Height	3.691m
Min Body Ground Clearance	0.426m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.987m

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Rev	Date	Description	By	Chkd.
D02	13.06.24	DRAFT ISSUE FOR REVIEW	MN	IH
D01	08.06.23	DRAFT ISSUE FOR REVIEW	MN	IH



VIEW TO LEFT OF ENTRANCE
(West)



VIEW TO RIGHT OF ENTRANCE
(East)



VIEW TO LEFT OF ENTRANCE
(East)



VIEW TO RIGHT OF ENTRANCE
(West)

Bord na Móna

Project:
DERRYADD WIND FARM

Title:
SITE ACCESS B - R398
AUTOTRACK ASSESSMENT

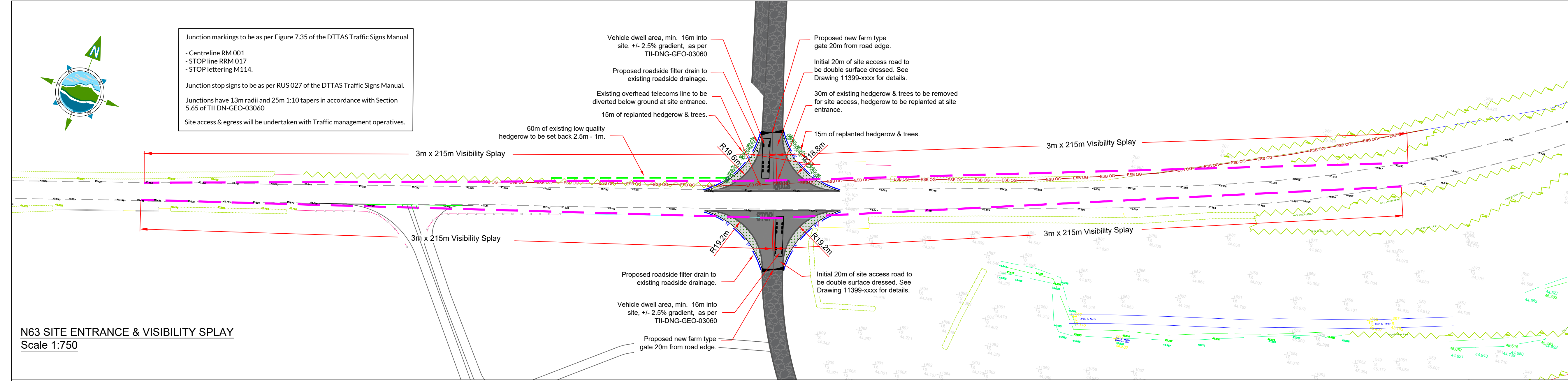
Scale @ A1: As Shown
Prepared by: M. Nolan
Checked by: I. Heanue
Date: May 2023

Drawing Status: Draft

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Drawing No.: 11399-2053
Revision: D02

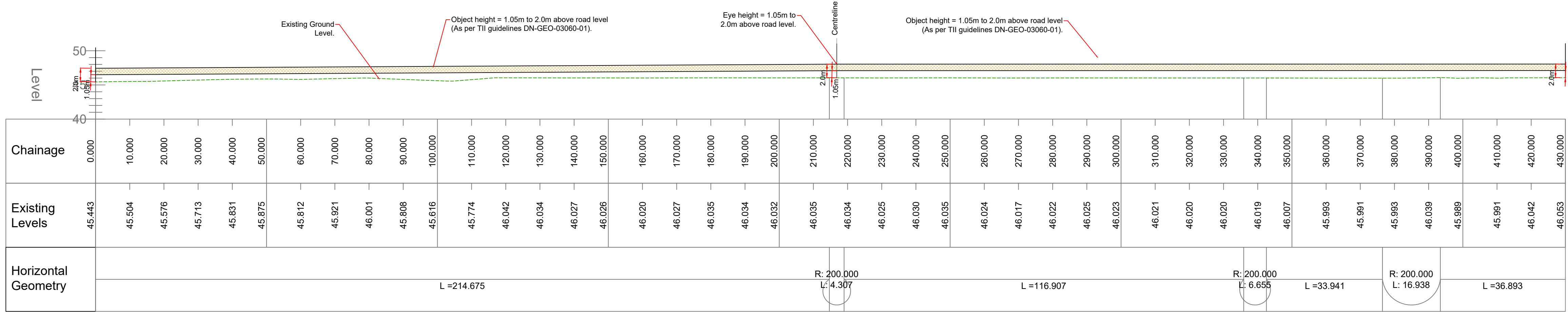


N63 SITE ENTRANCE & VISIBILITY SPLAY
Scale 1:750

Legend:

Visibility Envelope

Existing Ground Level

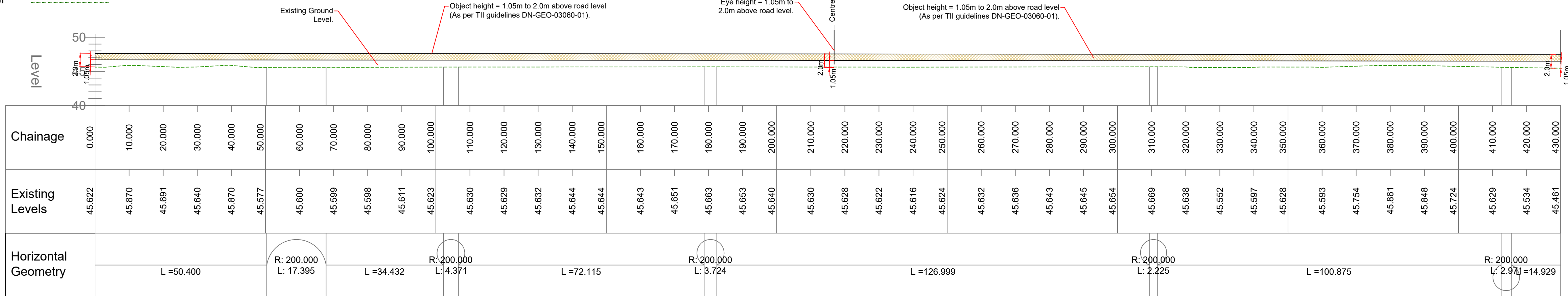


N63 VERTICAL PROFILE ALONG VISIBILITY SPLAY - SOUTHERN ENTRANCE (Derryadd)
Scale H: 1:750 / V:1:375

Legend:

Visibility Envelope

Existing Ground Level



N63 VERTICAL PROFILE ALONG VISIBILITY SPLAY - NORTHERN ENTRANCE (Derryaroge)
Scale H: 1:750 / V:1:375

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D02	13.06.24	DRAFT ISSUE FOR REVIEW	MN	IH
D01	08.06.23	DRAFT ISSUE FOR REVIEW	MN	IH
Rev	Date	Description	By	Chkd.

Bord na Móna

Project:
DERRYADD WIND FARM

Title:
**SITE ACCESS C - N63
SITE ENTRANCE DETAILS &
VISIBILITY SIGHTLINES
CONSTRUCTION PHASE ONLY**

Scale @ A1: **As Shown**

Prepared by: M. Nolan
Checked by: I. Heanue
Date: May 2023

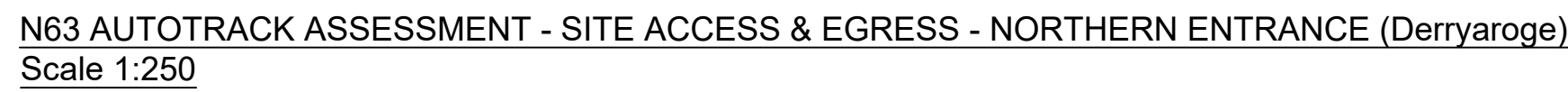
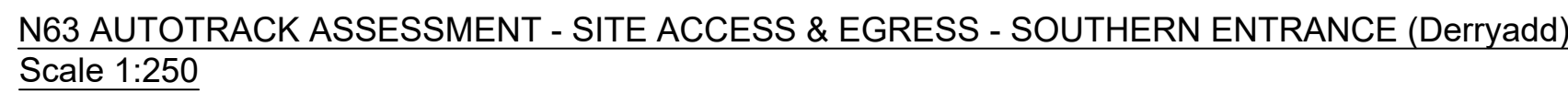
Drawing Status: **Draft**

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Drawing No.: **11399-2054**
Revision: **D02**



AUTOTRACK VEHICLE DETAILS

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
5. ALL LEVELS SHOWN RELATE TO ORDINANCE SURVEY DATUM AT MALIN HEAD.

D02	13.06.24	DRAFT ISSUE FOR REVIEW	MN	IH
D01	08.06.23	DRAFT ISSUE FOR REVIEW	MN	IH
Rev	Date	Description	By	Chkd.



Project

DERRYADD WIND FARM

Title:

SITE ACCESS C - N63
AUTOTRACK ASSESSMENT
CONSTRUCTION PHASE ONLY

Scale @ A1: As Shown

Prepared by: M. Nolan Checked by: I. Heanue Date: May 2023

Drawing Status: Draft

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Drawing No.:	Revision:
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Drawing No.:	Revision:
11399-2055	D02

Revision:

