



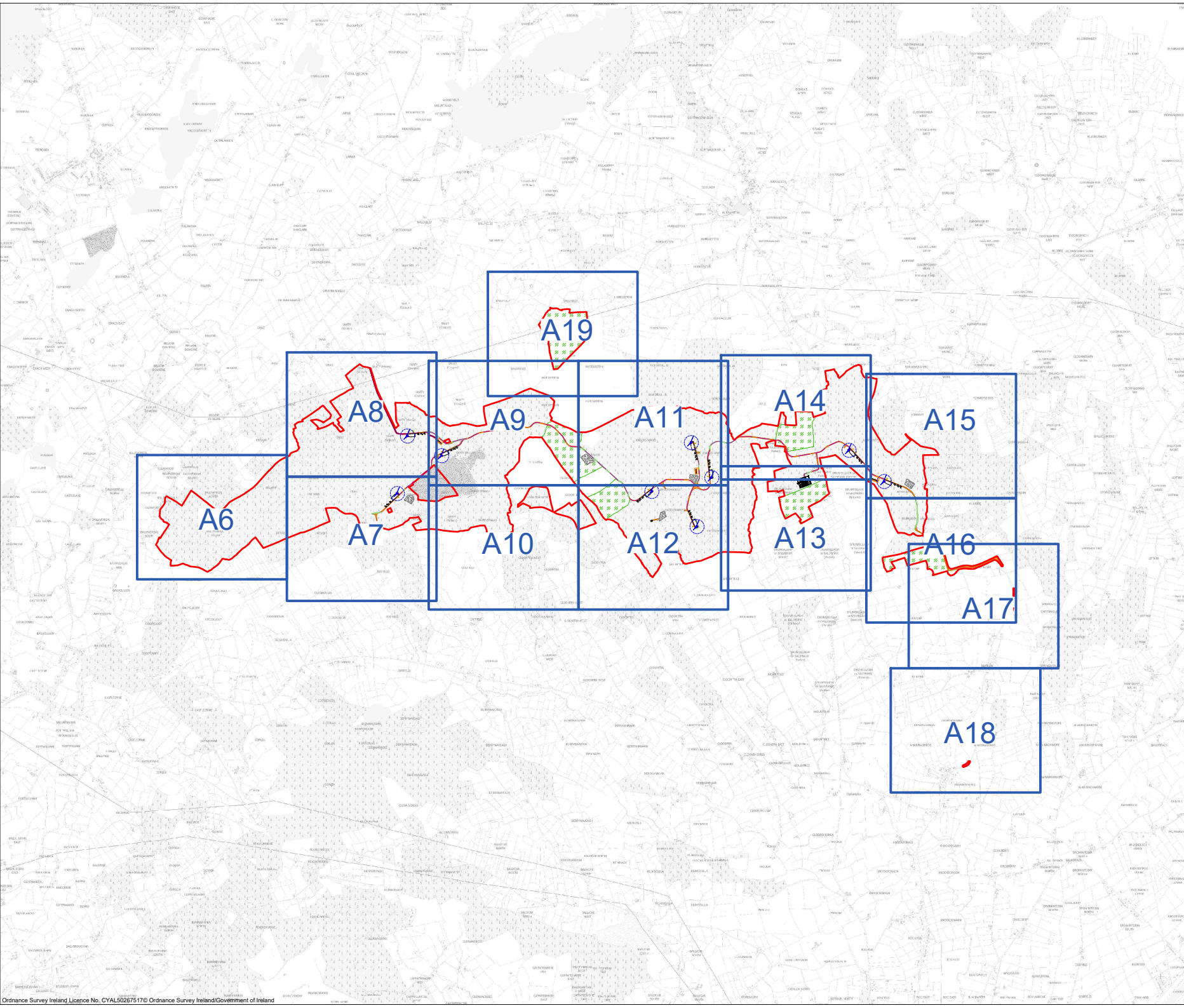
APPENDIX 4-1

SITE LAYOUT PLANNING
DRAWINGS



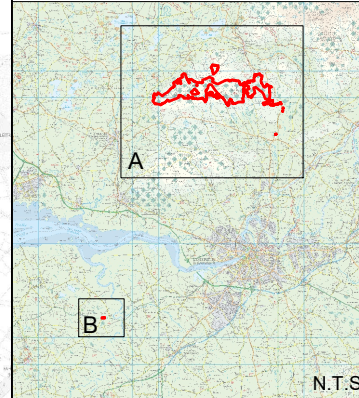
APPENDIX 4-1a

SITE LAYOUT PLANNING
DRAWINGS - PROPOSED
WIND FARM



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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Amenity Walking Trail
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Borrow Pit
 - Enhancement Area



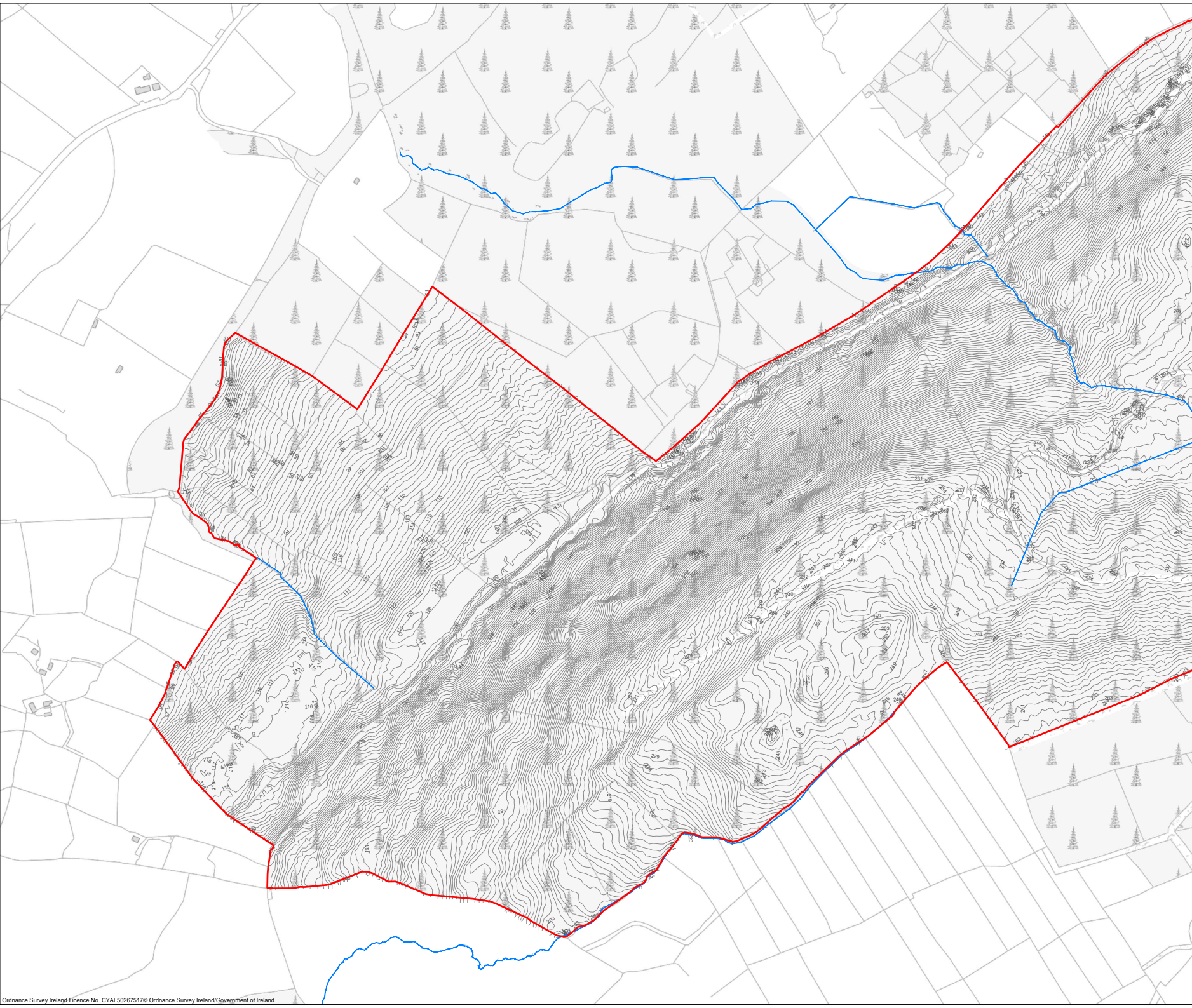
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout Key Plan A (1:2,500)

PROJECT No.: 200513	DRAWING No.: 200513 - 09	SCALE: 1:20,000 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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 8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- River/Stream



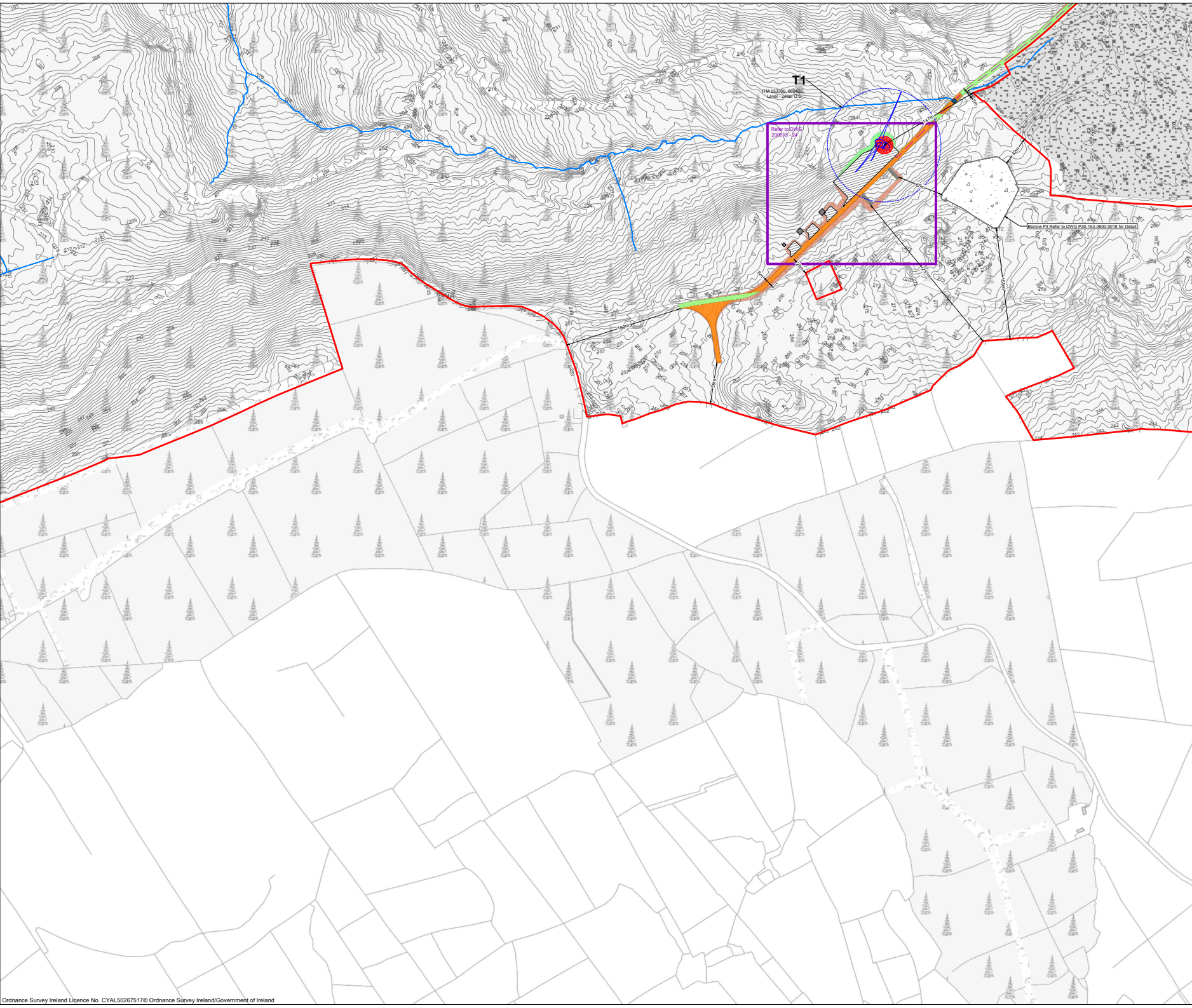
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A6

PROJECT No.: 200513	DRAWING No.: 200513 - 10	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384, 4385, 4386, 4387, 4442, 4443, 4444, 4445, 4501, 4502, 4503, 4504, 4561, 4562, 4563, 4564





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Borrow Pit
 - Cut
 - Fill
 - ◆ Watercourse Crossings Refer to HES Drainage Layouts Dwgs P1625-0_D10 to P1625-0_D107



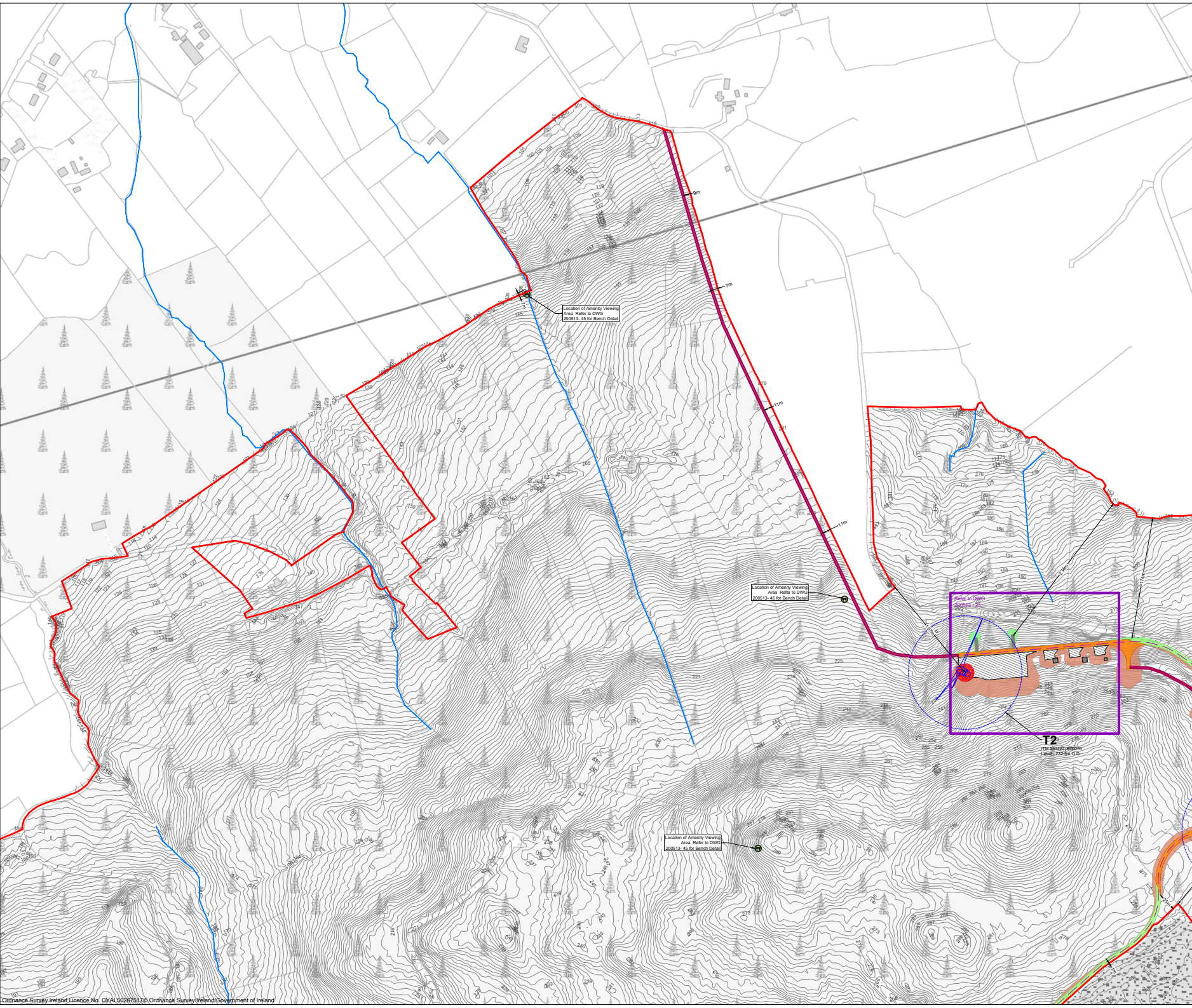
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A7

PROJECT No.: 200513	DRAWING No.: 200513 - 11	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
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4501,4502,4503,4504,4561,4562,4563,4564





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final plans may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Amenity Walking Trail
 - ⊙ Amenity Viewing Area
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - ⊙ Turbine Sweep Area
 - ⊙ Borrow Pit
 - Cut
 - Fill

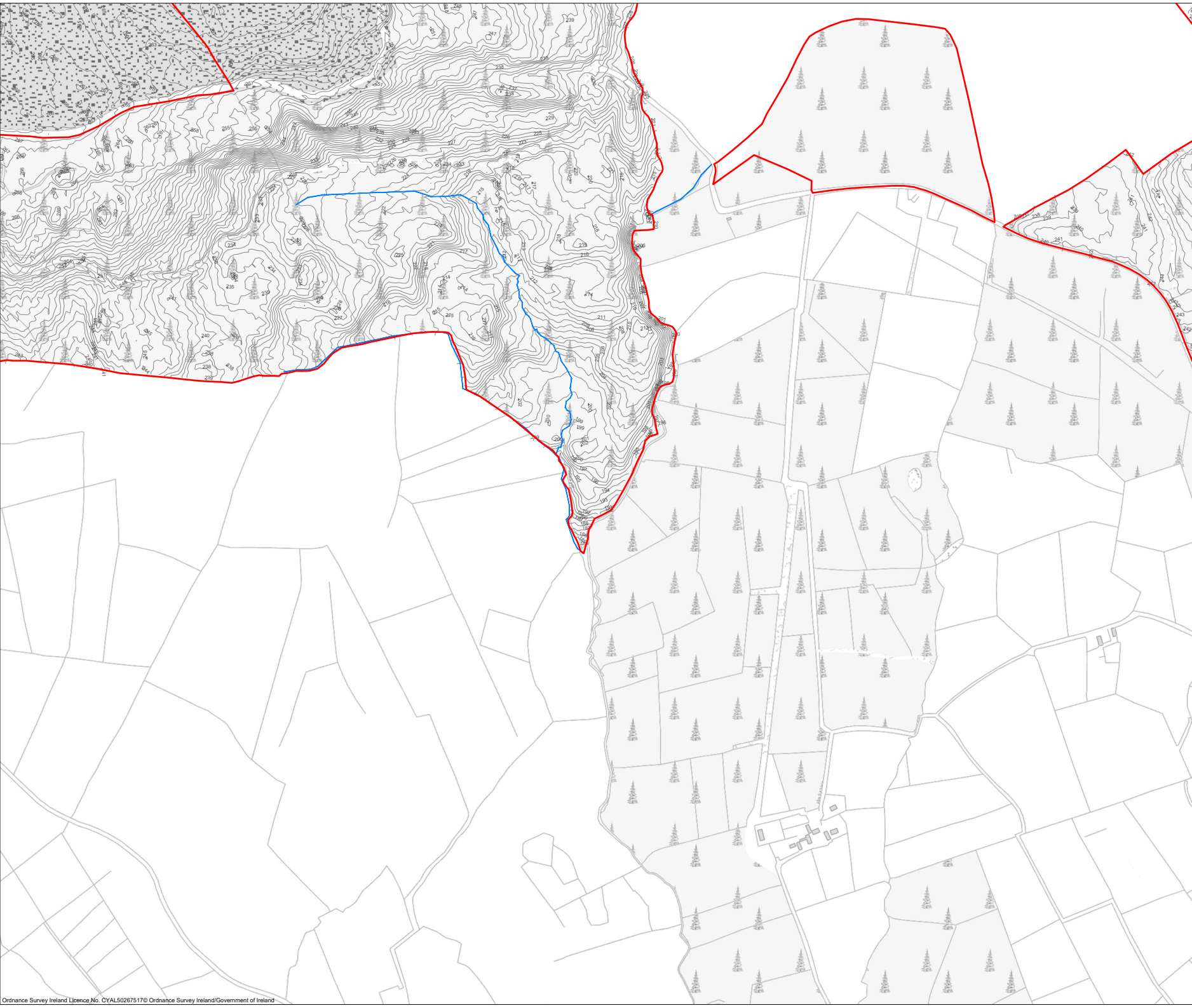
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A8

PROJECT No.: 200513	DRAWING No.: 200513 - 12	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
 4384, 4385, 4386, 4387, 4442, 4443, 4444, 4445, 4501, 4502, 4503, 4504, 4561, 4562, 4563, 4564





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 8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- River/Stream



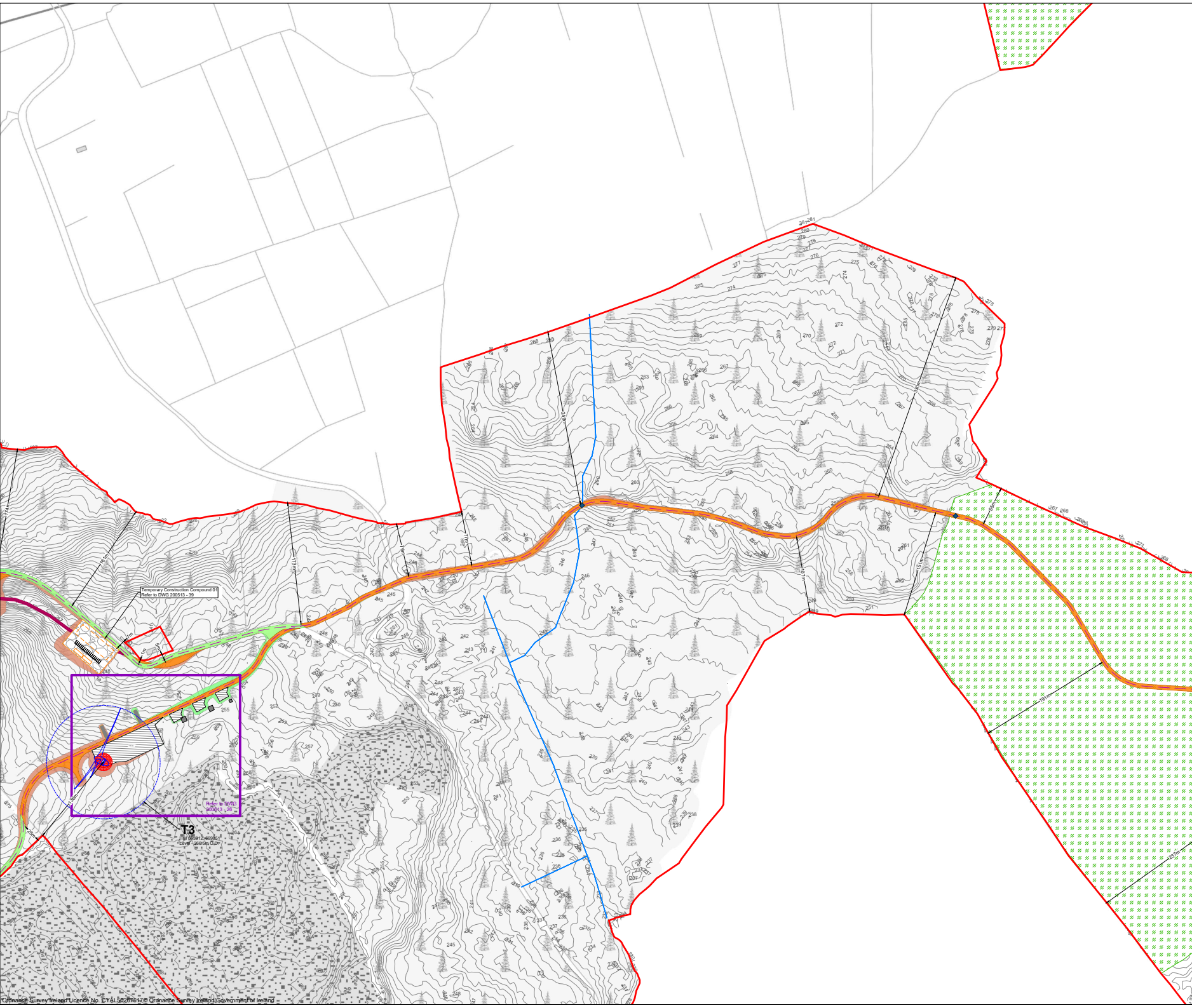
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A9

PROJECT No.: 200513	DRAWING No.: 200513 - 13	SCALE: 1:5,000 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - ⊗ Borrow Pit
 - Cut
 - Fill
 - Watercourse Crossings Refer to HES Drainage Layouts Dwgs P1625-0_D101to P1625-0_D107
 - Enhancement Area

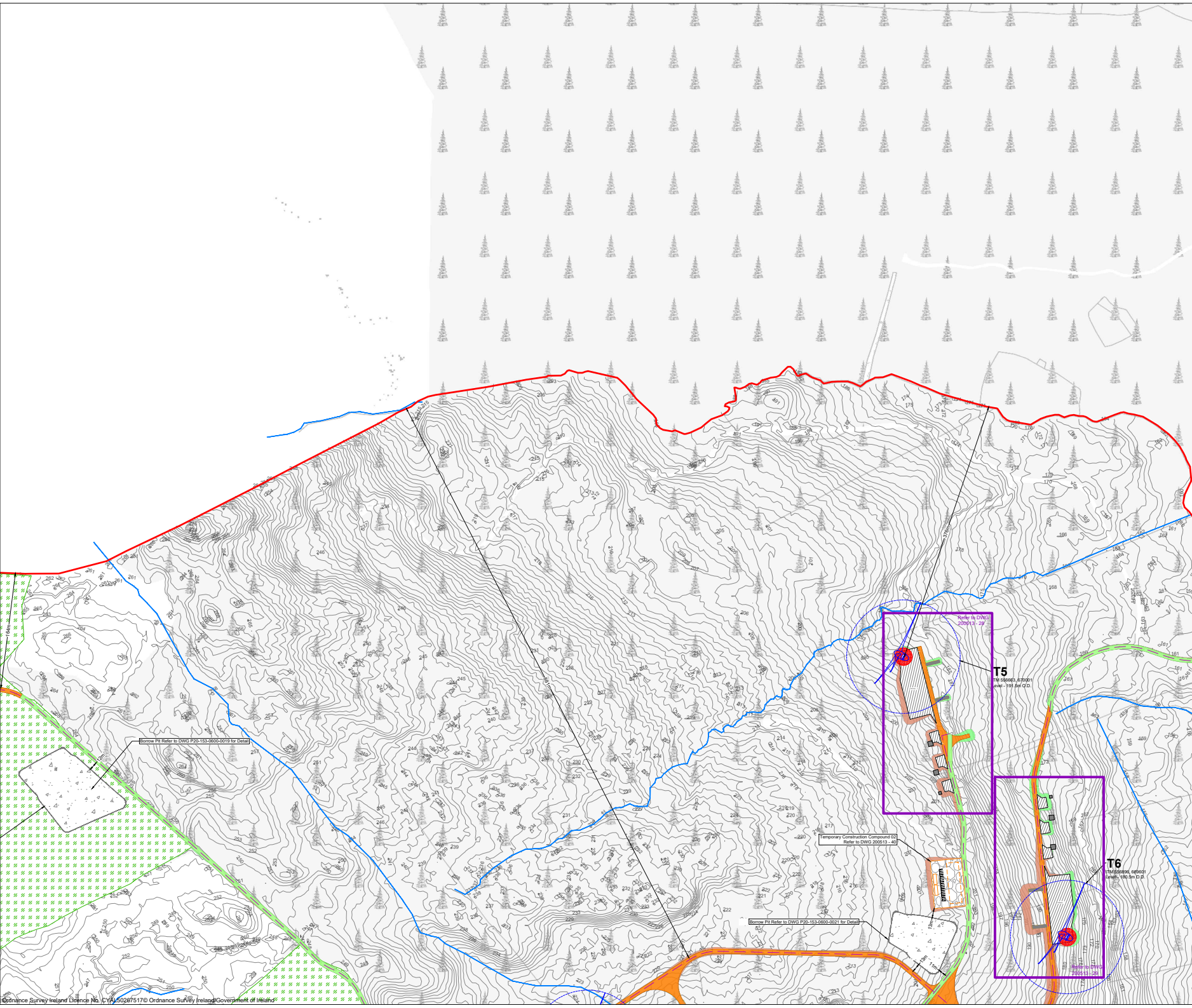
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A10

PROJECT No.: 200513	DRAWING No.: 200513 - 14	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Borrow Pit
 - Cut
 - Fill
 - Enhancement Area

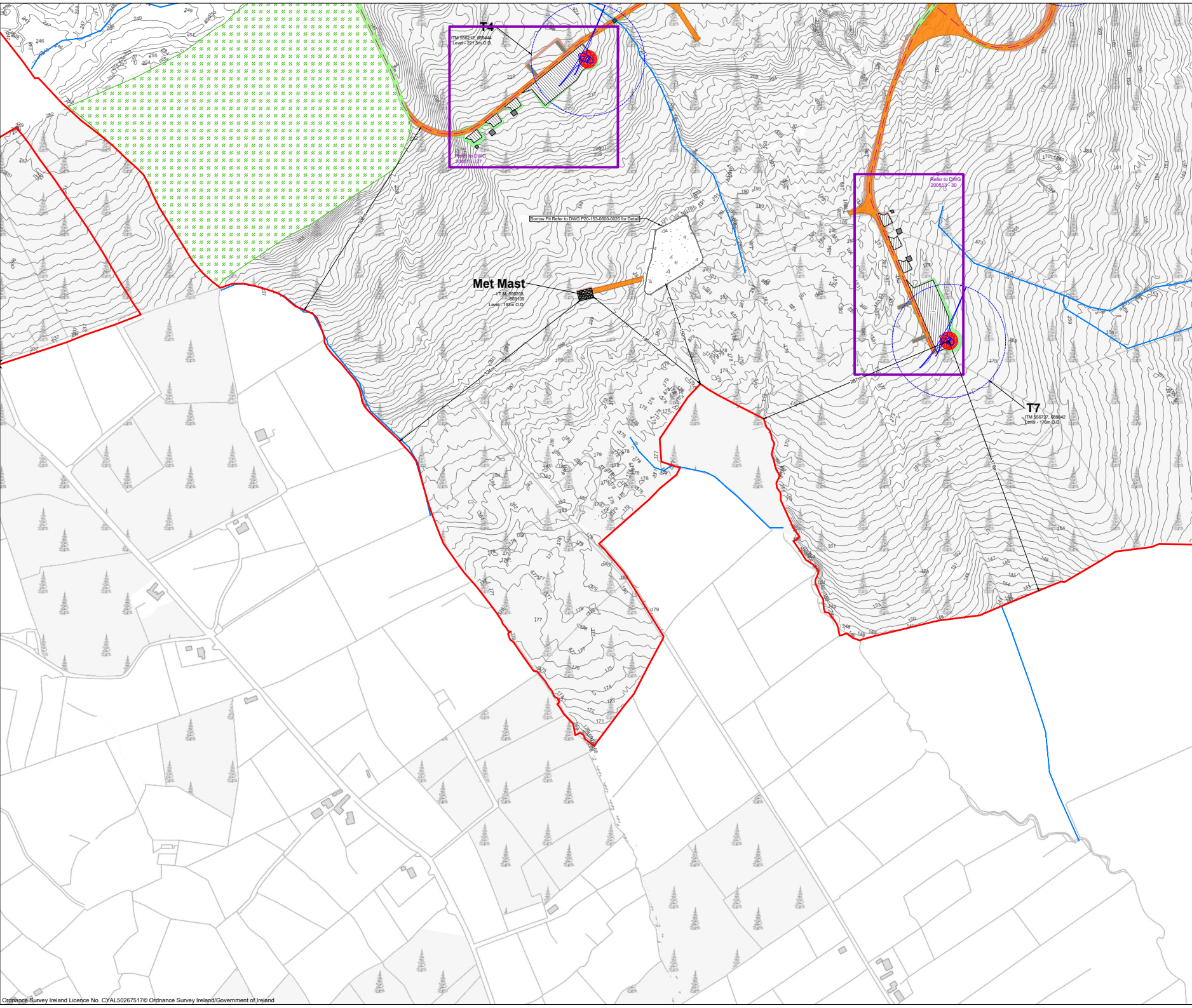
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A11

PROJECT No.: 200513	DRAWING No.: 200513 - 15	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
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 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Borrow Pit
 - Cut
 - Fill
 - ◆ Watercourse Crossings Refer to HES Drainage Layouts Dwgs P1625-0_D101to P1625-0_D107
 - Enhancement Area



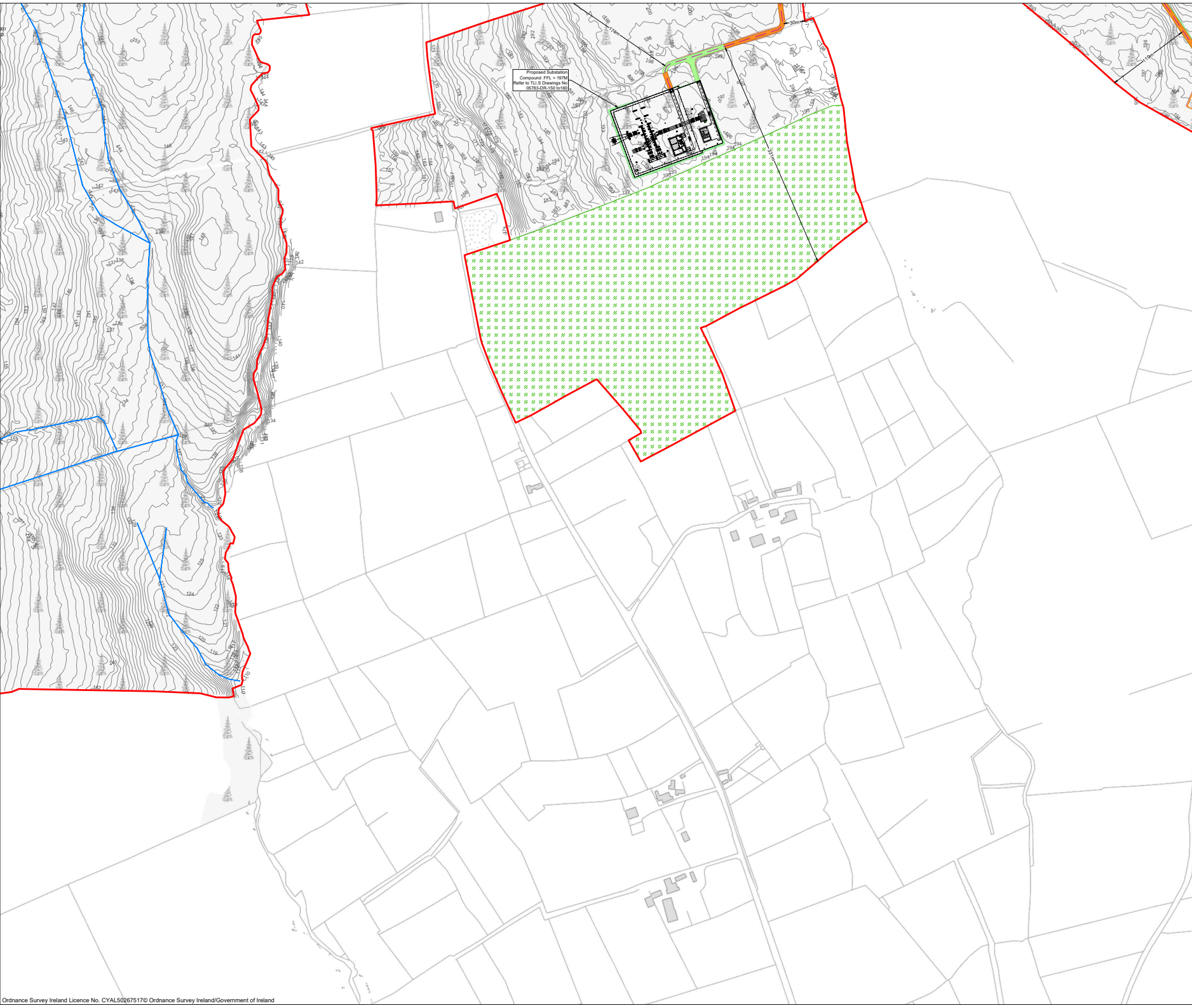
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A12

PROJECT No.: 200513	DRAWING No.: 200513 - 16	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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 8. Final levels may vary depending on local ground conditions.

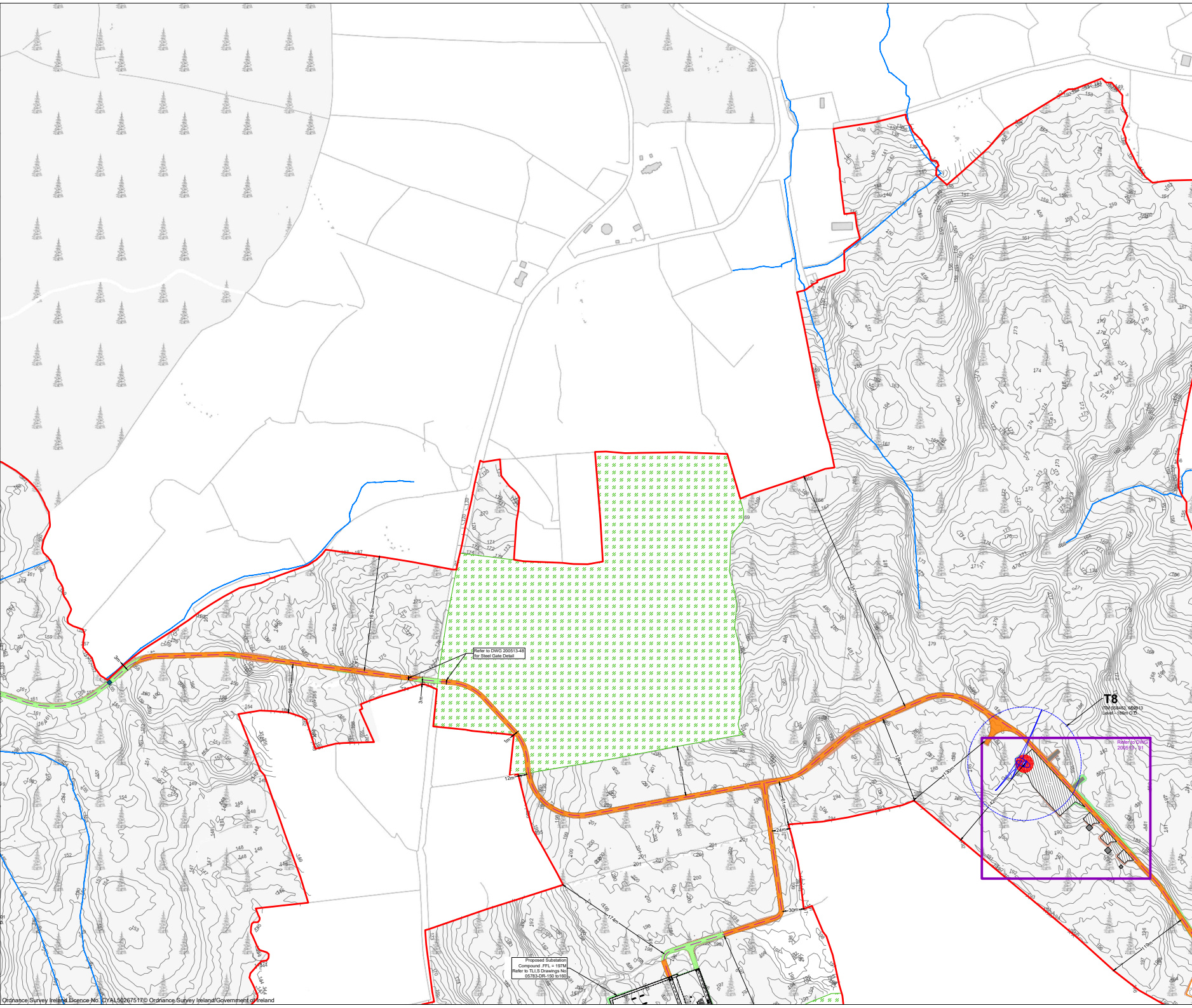
- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - ⊙ Turbine Sweep Area
 - ⊙ Borrow Pit
 - Cut
 - Fill
 - Enhancement Area



PROJECT TITLE: Proposed Knockshanvo Wind Farm		
DRAWING TITLE: Site Layout 1:2,500 Sheet A13		
PROJECT No.: 200513	DRAWING No.: 200513 - 17	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
OS SHEET No.:		REVISION: P01

4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Borrow Pit
 - Cut
 - Fill
 - ◆ Watercourse Crossings Refer to HES Drainage Layouts Dwgs P1625-0_D10 to P1625-0_D107
 - Enhancement Area



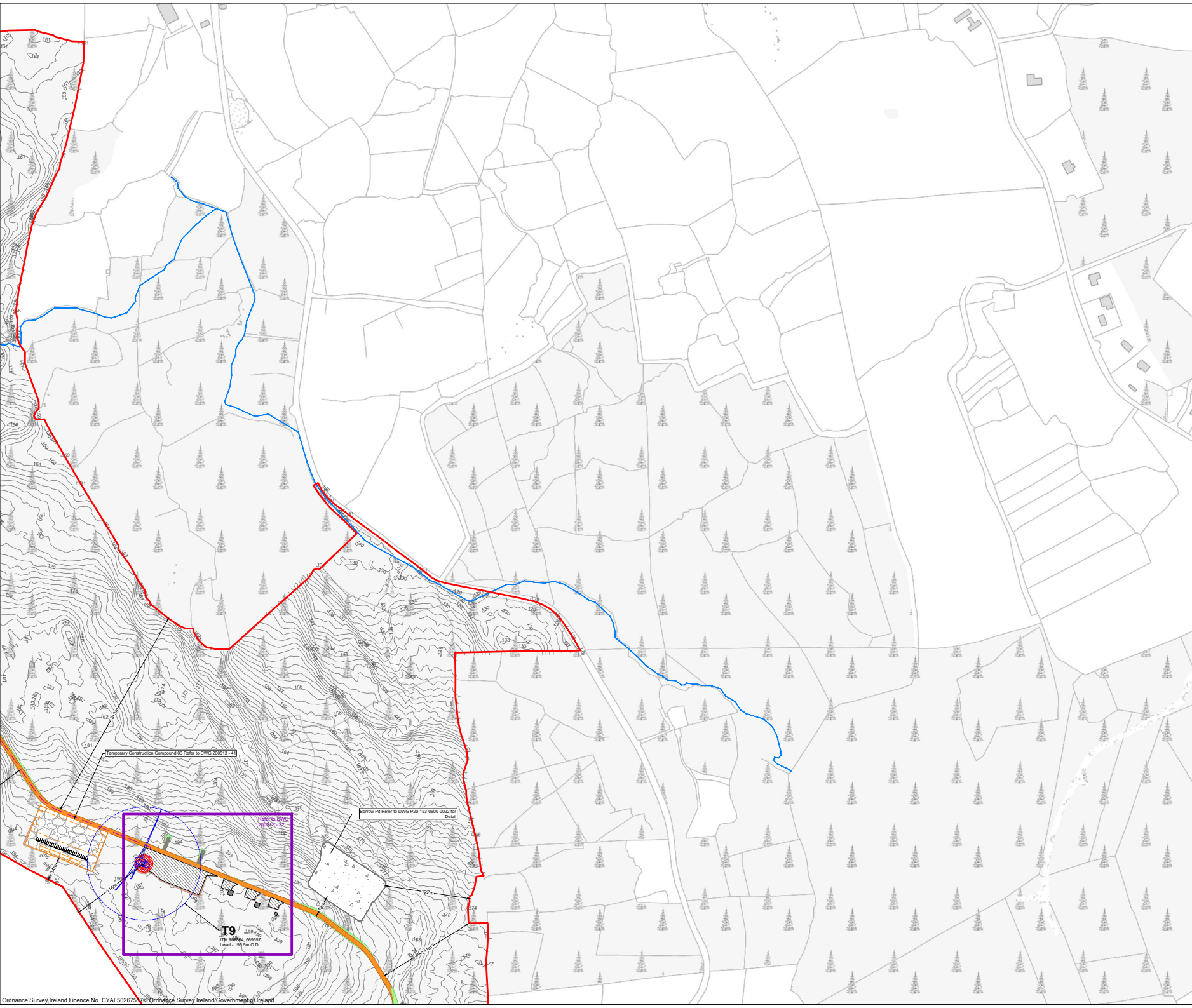
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A14

PROJECT No.: 200513	DRAWING No.: 200513 - 18	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384, 4385, 4386, 4387, 4442, 4443, 4444, 4445, 4501, 4502, 4503, 4504, 4561, 4562, 4563, 4564





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 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - - - Electrical Cable Trench
 - River/Stream
 - Soft Levelled Area
 - Hardstand
 - Turbine Foundation
 - Turbine Sweep Area
 - Borrow Pit
 - Cut
 - Fill



PROJECT TITLE:
Proposed Knockshanvo Wind Farm

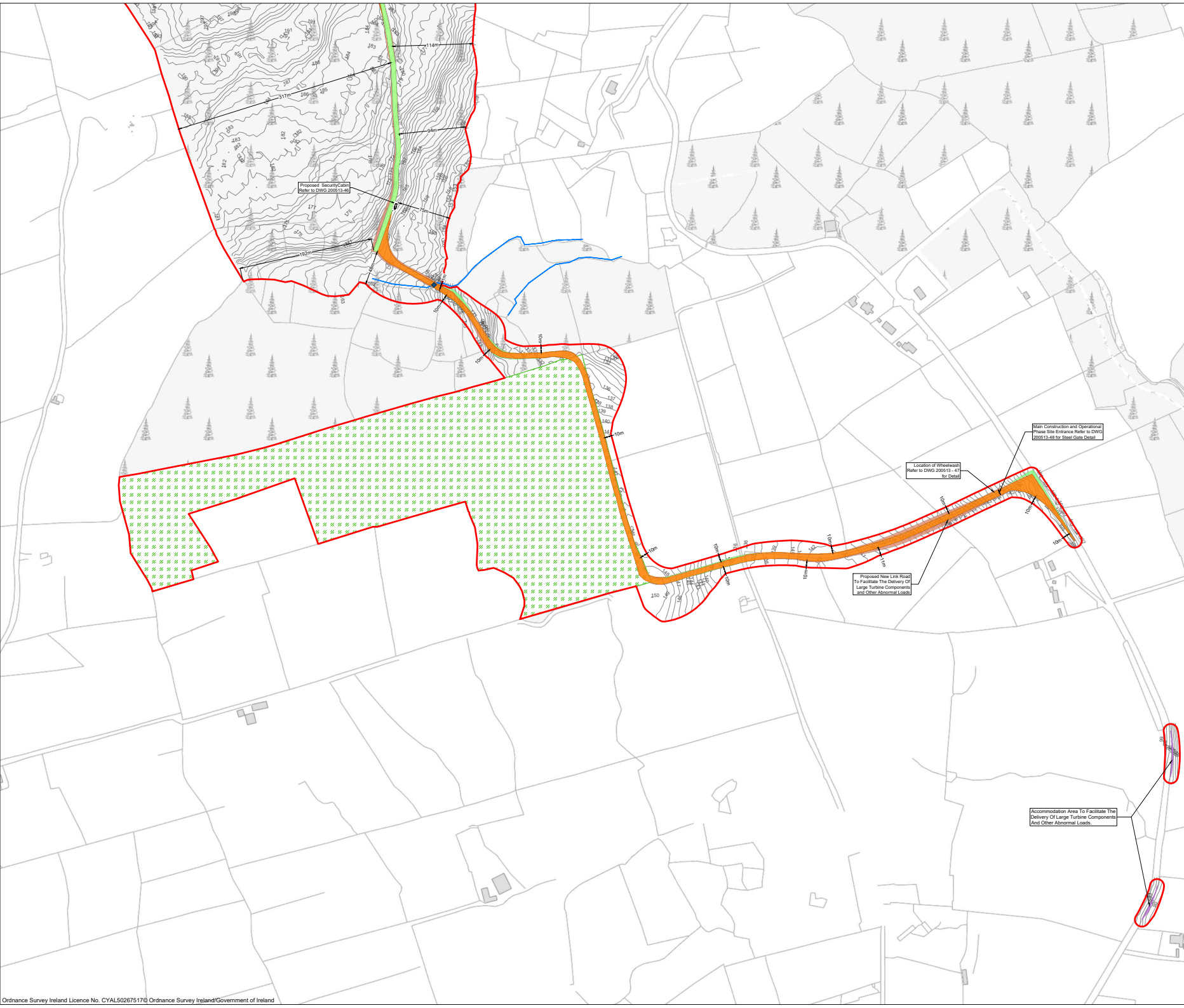
DRAWING TITLE:
Site Layout 1:2,500 Sheet A15

PROJECT No.: 200513	DRAWING No.: 200513 - 19	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564



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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- TDR Accommodation Areas
- River/Stream
- Cut
- Fill
- ◆ Watercourse Crossings Refer to HES Drainage Layouts Dwgs P1625-0_D101to P1625-0_D107
- ▨ Enhancement Area



PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A16

PROJECT No.: 200513	DRAWING No.: 200513 - 20	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - TDR Accommodation Areas
 - Cut
 - Fill
 - Enhancement Area



PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A17

PROJECT No.: 200513	DRAWING No.: 200513 - 21	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4384,4385,4386,4387,4442,4443,4444,4445,
4501,4502,4503,4504,4561,4562,4563,4564





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- Drawing Legend**
- Planning Application Boundary
 - TDR Accommodation Areas



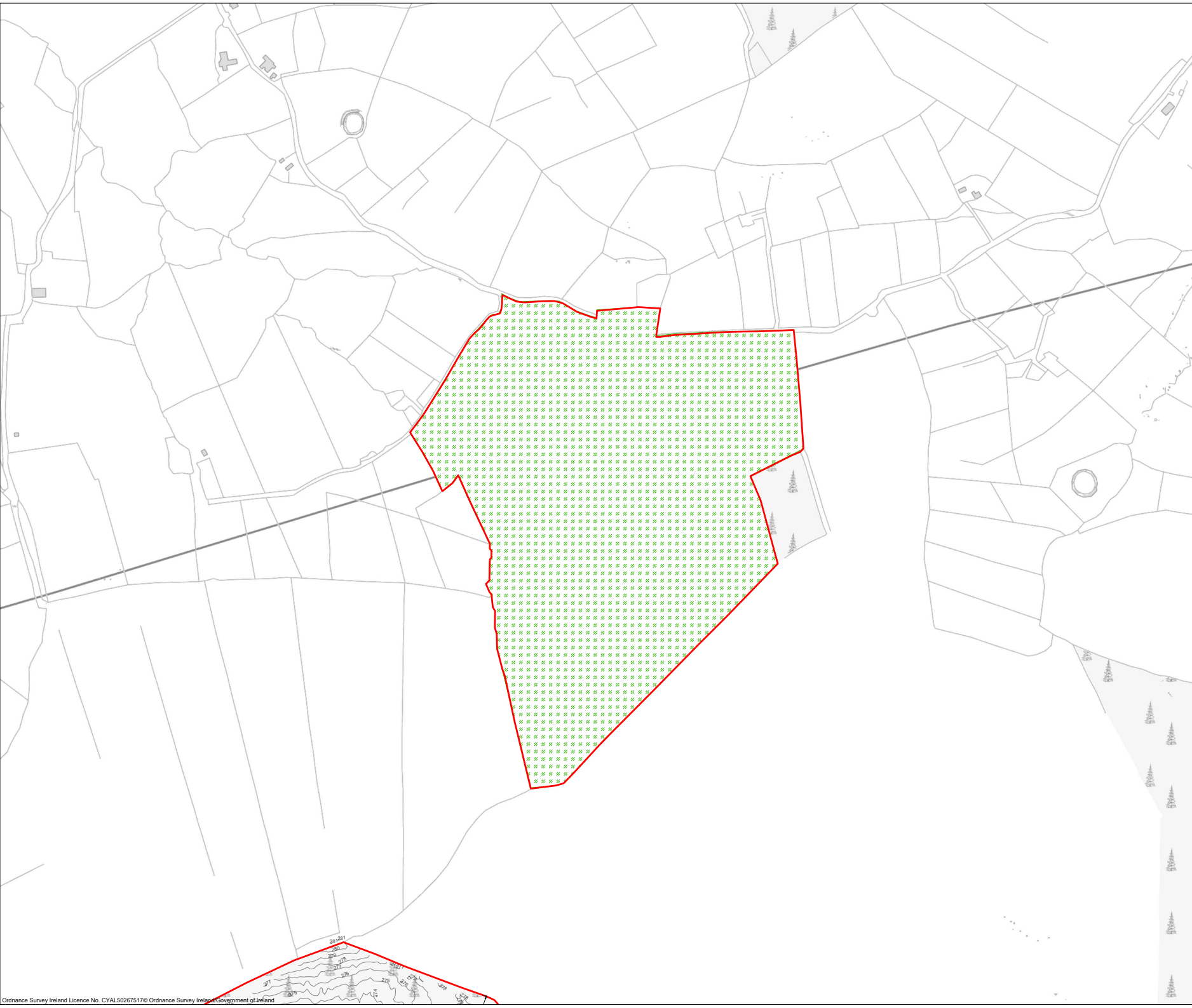
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A18



PROJECT No.: 200513	DRAWING No.: 200513 - 22	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
 4384,4385,4386,4387,4442,4443,4444,4445,
 4501,4502,4503,4504,4561,4562,4563,4564





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 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
-  Planning Application Boundary
 -  Enhancement Area



PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout 1:2,500 Sheet A19

PROJECT No.: 200513	DRAWING No.: 200513 - 23	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
 4384,4385,4386,4387,4442,4443,4444,4445,
 4501,4502,4503,4504,4561,4562,4563,4564





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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

— Planning Application Boundary



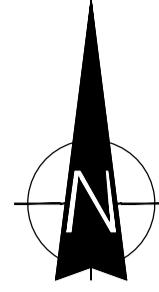
PROJECT TITLE:
Proposed Knockshanvo Wind Farm

DRAWING TITLE:
Site Layout Plan B (1:2,500)

PROJECT No.: 200513	DRAWING No.: 200513 - 25	SCALE: 1:2,500 @ A1
DRAWN BY: KD	CHECKED BY: EOS	DATE: 20.08.2024
		REVISION: P01

OS SHEET No.:
4800, 4801





Map Series:
Prime Data Vector

Reference No.'s
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Head Office
Beenleigh,
Abbeydorney,
Tralee, Co. Kerry
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Stroudley Road, Basingstoke,
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PROJECT

**Knockshanvo Wind Farm
110kV Grid Connection**

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NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Drawings are not to be scaled use figured dimensions only.
- All levels shown are in m O.D unless noted otherwise.
- For Elevation Ref. to Drawing 05783-DR-151.

LEGEND: -

- UG Cable Route shown thus (1.5 km)
- Contours 14.0
- Access track

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P3	01.08.24	Issued for Planning
P2	05.06.24	Issued for Planning
P1	10.11.22	Issued for Planning

PROJECT NUMBER

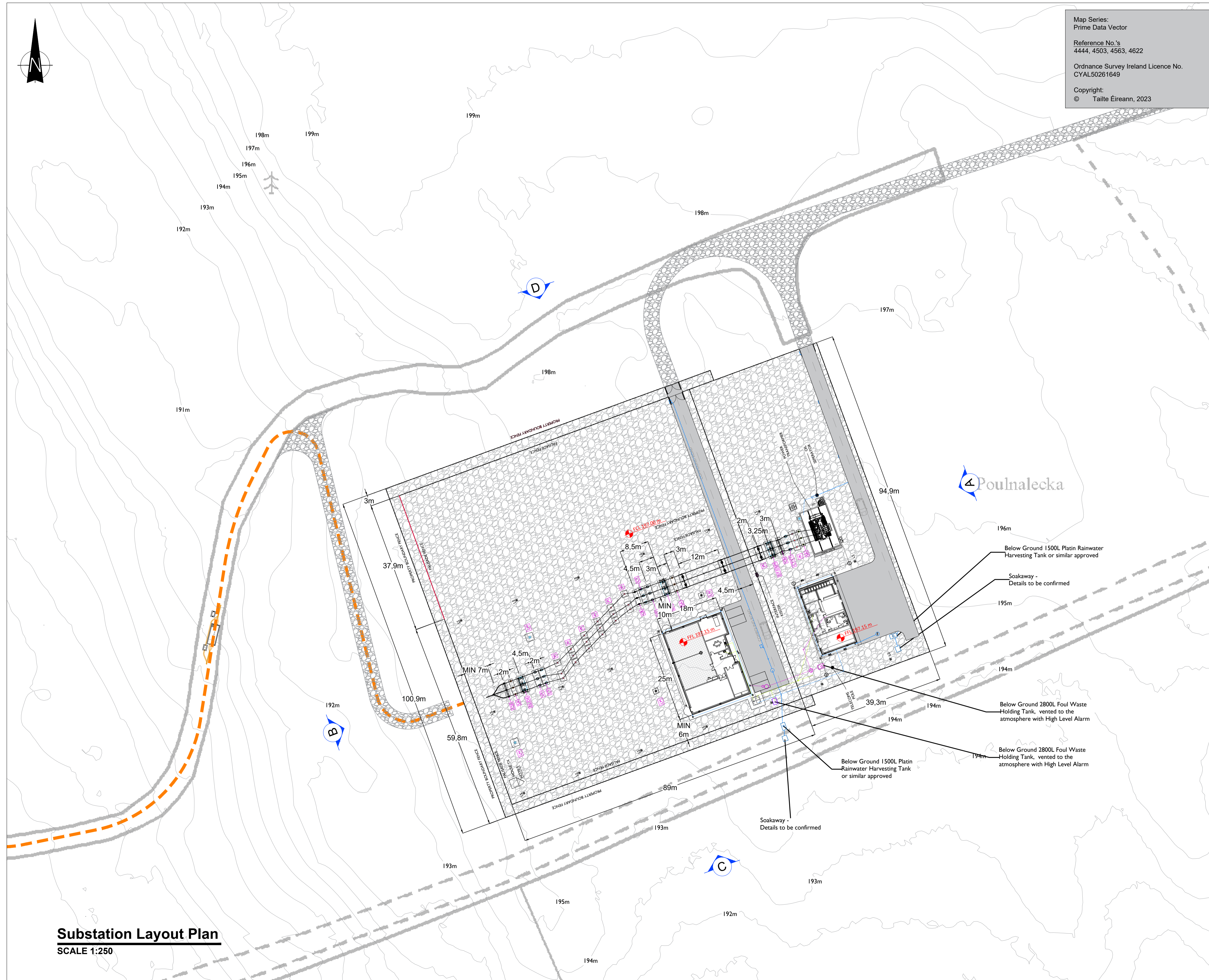
05-783

SHEET TITLE

Substation Layout Plan

SHEET NUMBER

05783-DR-150



Substation Layout Plan
SCALE 1:250



APPENDIX 4-1b

SITE LAYOUT PLANNING
DRAWINGS - PROPOSED
GRID CONNECTION

NOTES: -
Path of cable connection of associated four Box, Link Boxes and Comm Chambers may vary depending on site condition.

Other services may be encountered along the route. This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

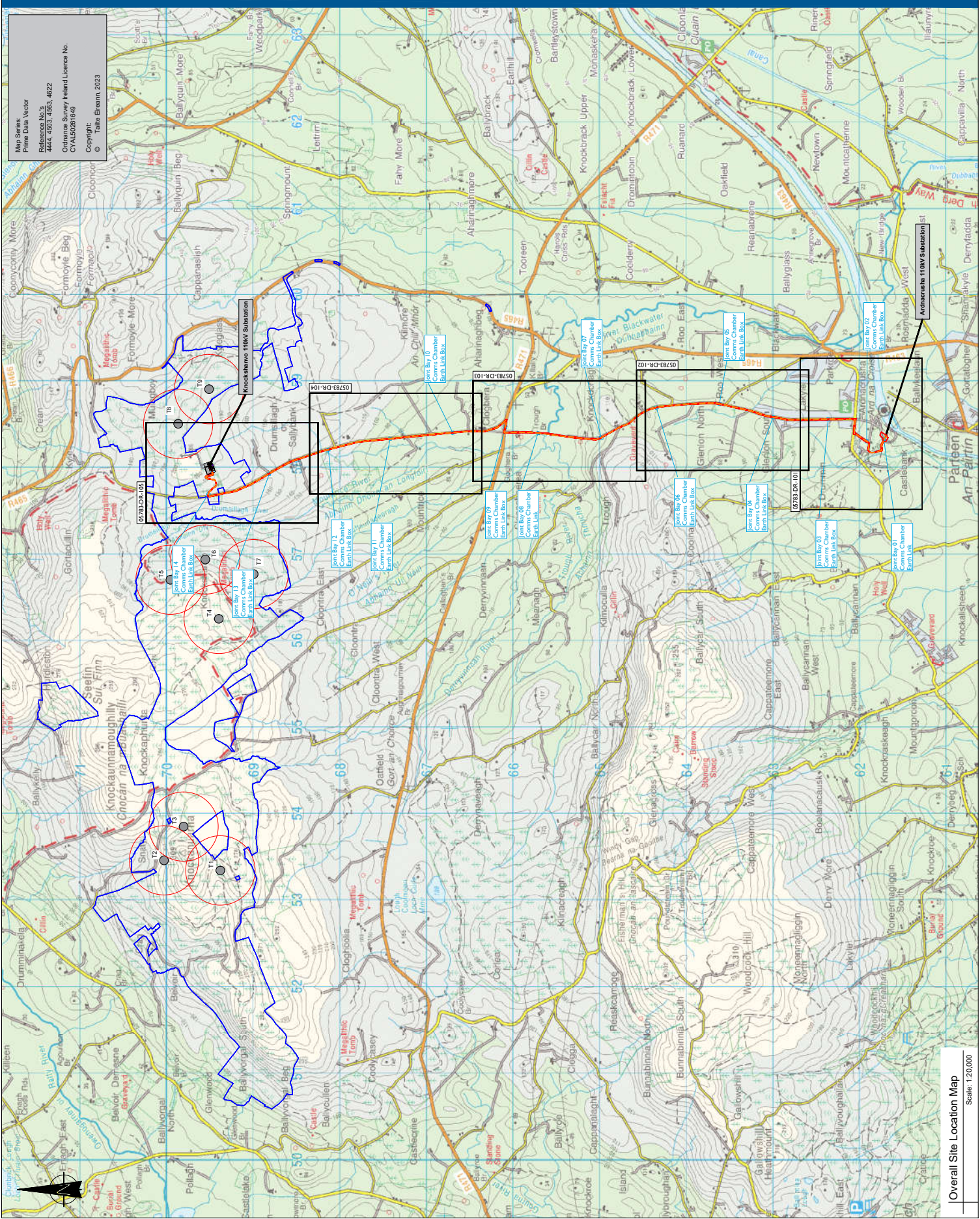
- LEGEND:** -
- 110kV Underground Cable Design Route
 - Planning Boundary shown that
 - Wind Farm Boundary shown that
 - Details to be submitted under a separate planning application to An Bord Pleanála
 - Joint Box Locations shown that
 - Knockshanvo WF Turbine Location
 - Knockshanvo WF Turbine Location (2 x 80m Diameter) Details to be submitted under a separate planning application to An Bord Pleanála
 - Turbine Edge Clearance shown that
 - (2 x 80m Diameter) Details to be submitted under a separate planning application to An Bord Pleanála

ISSUE/REVISION

NO	DATE	DESCRIPTION
P0	19.08.24	Issued for Planning
P1	15.08.24	Issued for Planning
P2	01.08.24	Issued for Planning
P3	13.08.24	Issued for Planning
P4	05.08.24	Issued for Planning
P5	10.11.23	Issued for Planning
IFR	DATE	DESCRIPTION

PROJECT NUMBER
05-783

SHEET TITLE
Site Layout Keyplan



Overall Site Location Map

Scale: 1:20,000

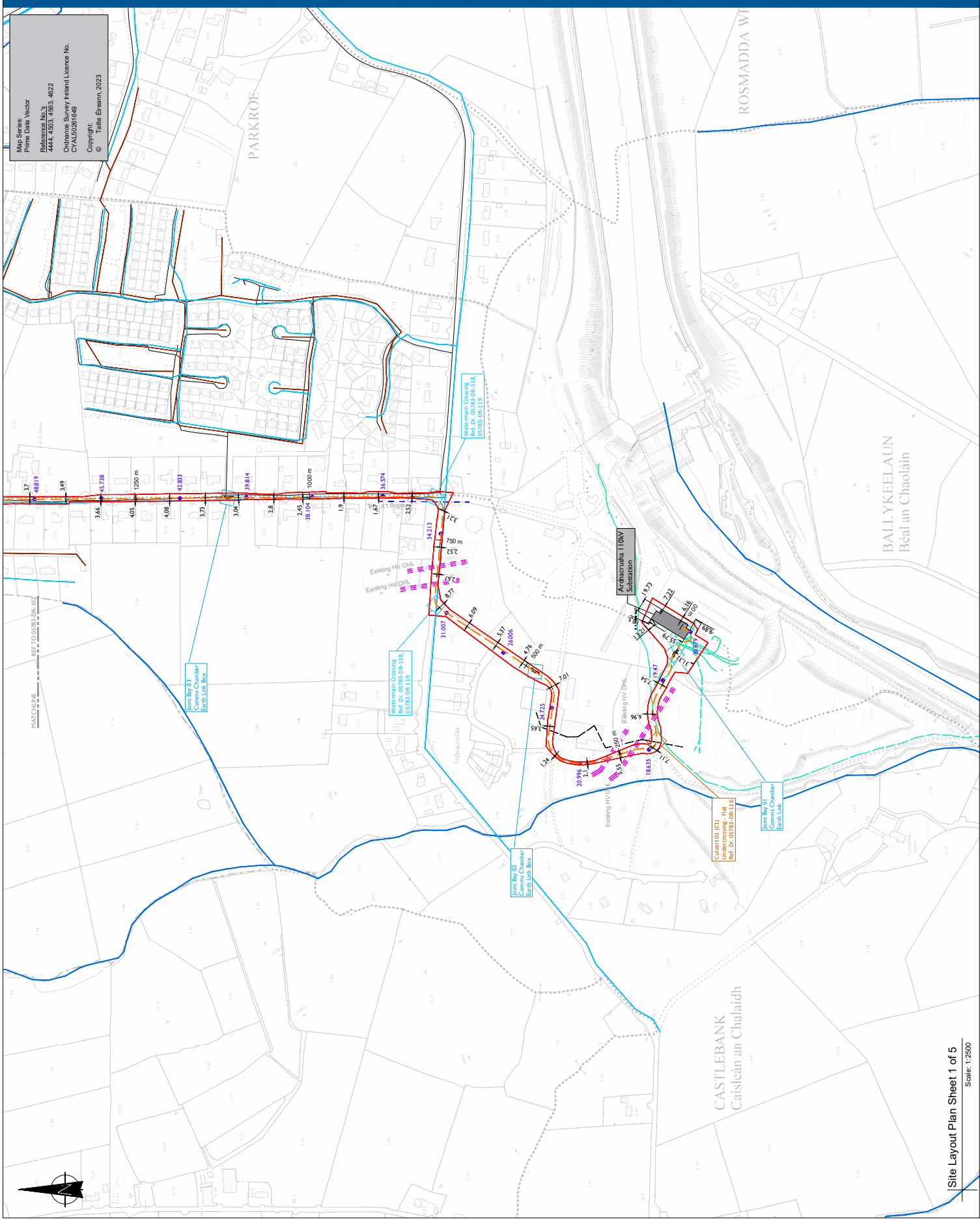
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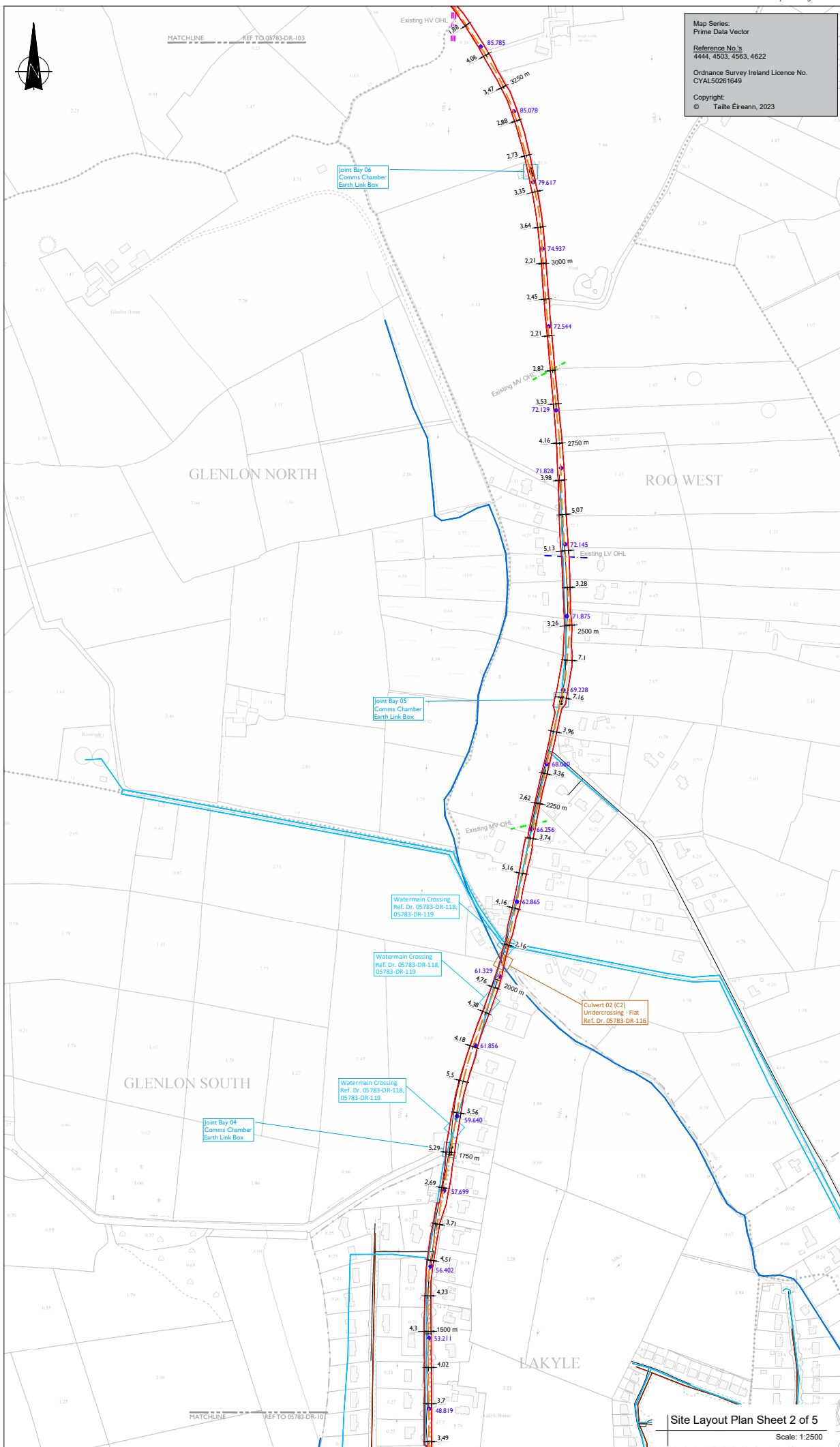
Point of cable route and location of associated Joint Box, Link Boxes and Comm Chambers may vary depending on site conditions.

Other services may be encountered along the route. This drawing is to be used only for the purpose of this planning application and is subject to detailed design.

- 110kV Underground Cable Design Route
- Planning Boundary shown thus
- Joint Bay Locations shown thus
- Watermain Crossings shown thus
- Existing HV OHL Networks shown thus
- Existing ESB OHL HV Networks shown thus
- Existing ESB OHL LV Networks shown thus
- Existing ESB LVCC MV/LV Networks shown thus
- Existing Gas Network Ireland shown thus
- Existing Piers & Streams shown thus
- Existing Irish Water Network shown thus

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P1	10.11.23	Issued for Planning
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SHEET TITLE		
Site Layout Plan		
Sheet 1 of 5		
SHEET NUMBER		
05783-DR-101		





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LEGEND:

- 110kV Underground Cable Design Route —
- Planning Boundary shown thus —
- Joint Bay Locations shown thus
- Existing Levels shown thus —
- Culvert Locations shown thus
- Existing Levels shown thus —
- Existing ESB OHL MV/LV Networks shown thus —
- Existing ESB OHL MV/LV Networks shown thus —
- Existing Gas Network Ireland shown thus —
- Existing Rivers & Streams —
- Existing Irish Water Network —

NOTES:

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route.

This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

tli GROUP

Head Office: Beeneigh, Abbeydorney, Tralee, Co. Kerry, Ireland. Tel: 00353 66 7135710

Regional Office: Basepoint Business Centre, Stroudley Road, Basingstoke, Hampshire, RG24 8UP, UK. Tel: 00 44 1256406664

PROJECT

Knockshanwo Wind Farm 110kV Grid Connection

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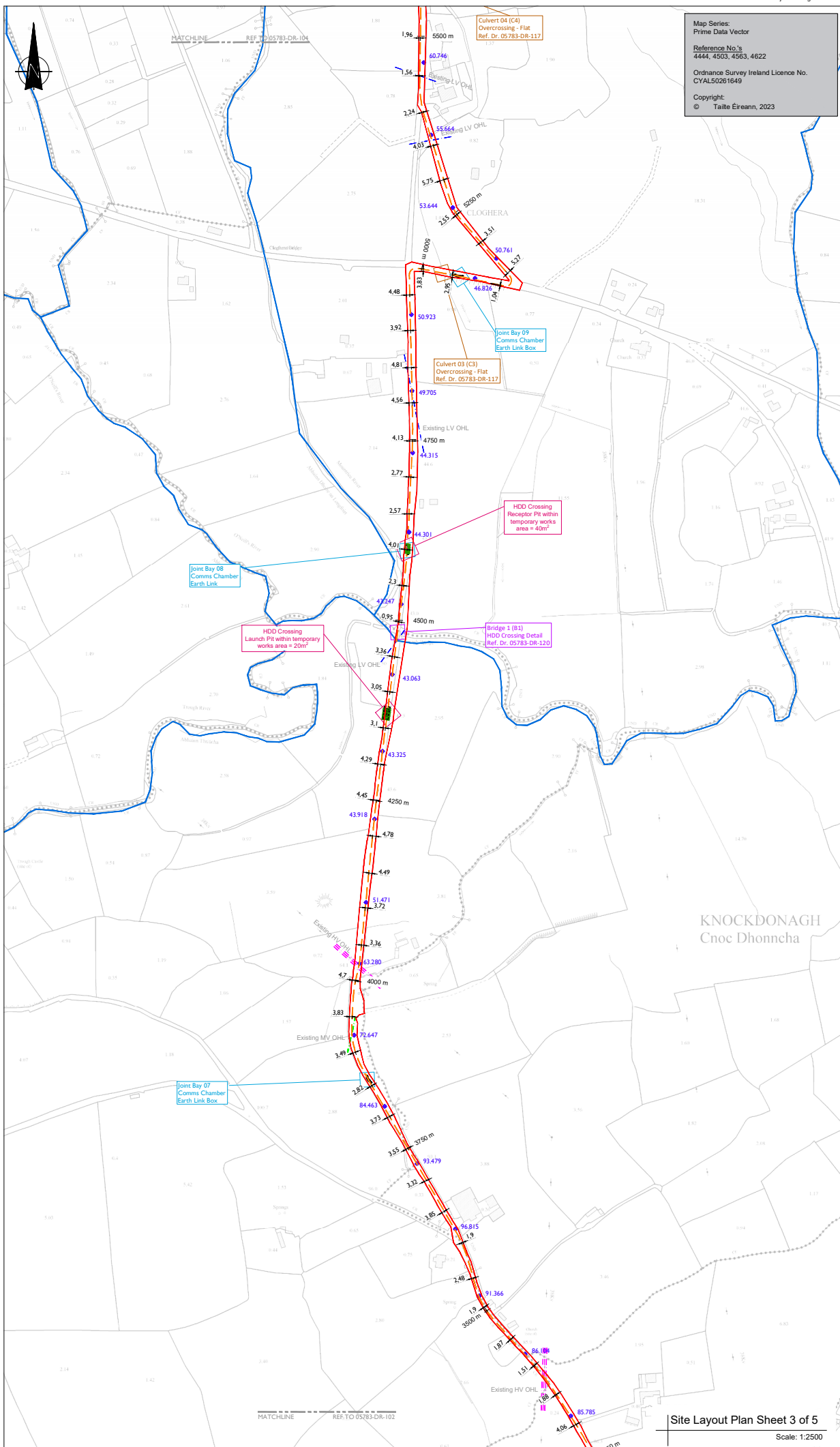
ISSUE/REVISION

NO.	DATE	DESCRIPTION
P2	05.06.24	Issued for Planning
P1	10.11.23	Issued for Planning
IR	DATE	DESCRIPTION

PROJECT NUMBER
05-783

SHEET TITLE
Site Layout Plan
Sheet 2 of 5

SHEET NUMBER
05783-DR-102



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LEGEND:-

- 110kV Underground Cable Design Route - - - - -
- Planning Boundary shown thus - - - - -
- Joint Bay Locations shown thus
- Culvert Locations shown thus
- Existing levels shown thus ◆ 79.617
- Existing ESB OHL MVLV Networks shown thus - - - - -
- Existing ESB OHL MVLV Networks shown thus - - - - -
- Existing Rivers & Streams - - - - -

NOTES:-

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route.

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Head Office
Beenleigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

**Knockshanwo Wind Farm
110kV Grid Connection**

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P1	10.11.23	Issued for Planning
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PROJECT NUMBER
05-783

SHEET TITLE
Site Layout Plan
Sheet 3 of 5

SHEET NUMBER
05783-DR-103



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LEGEND: -

110kV Underground Cable Design Route	
Planning Boundary shown thus	
Joint Bay Locations shown thus	
Culvert Locations shown thus	
Existing levels shown thus	
Existing ESB OHL MV/LV Networks shown thus	
Existing Rivers & Streams	

NOTES: -

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route.

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Head Office
Beenleigh,
Abbeytoomey,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

**Knockshanvo Wind Farm
110kV Grid Connection**

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05-783

SHEET TITLE
Site Layout Plan
Sheet 4 of 5

SHEET NUMBER
05783-DR-104

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LEGEND:

- 110kV Underground Cable Design Route —
- Planning Boundary shown thus —
- Wind Farm Boundary shown thus —
- Details to be submitted under a separate planning application to An Bord Pleanála —
- Joint Bay Locations shown thus □
- Culvert Locations shown thus □
- Existing levels shown thus ◆ 79.617
- Existing ESB OHL MV/LV Networks shown thus —
- Existing Rivers & Streams —
- Knockshanvo WF Turbine Location. Details to be submitted under a separate planning application to An Bord Pleanála ●
- Turbine Felling Distance shown thus (2 x Rotor Diameter). Details to be submitted under a separate planning application to An Bord Pleanála ○
- Wind Farm Access Track. Details to be submitted under a separate planning application to An Bord Pleanála —
- Cut Volume. Details to be submitted under a separate planning application to An Bord Pleanála ▨
- Fill Volume. Details to be submitted under a separate planning application to An Bord Pleanála ▨
- Access track. Details to be submitted under a separate planning application to An Bord Pleanála —

NOTES:

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route.

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Head Office
Beenleigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire
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Tel: 00 44 1256406664

PROJECT

**Knockshanvo Wind Farm
110kV Grid Connection**

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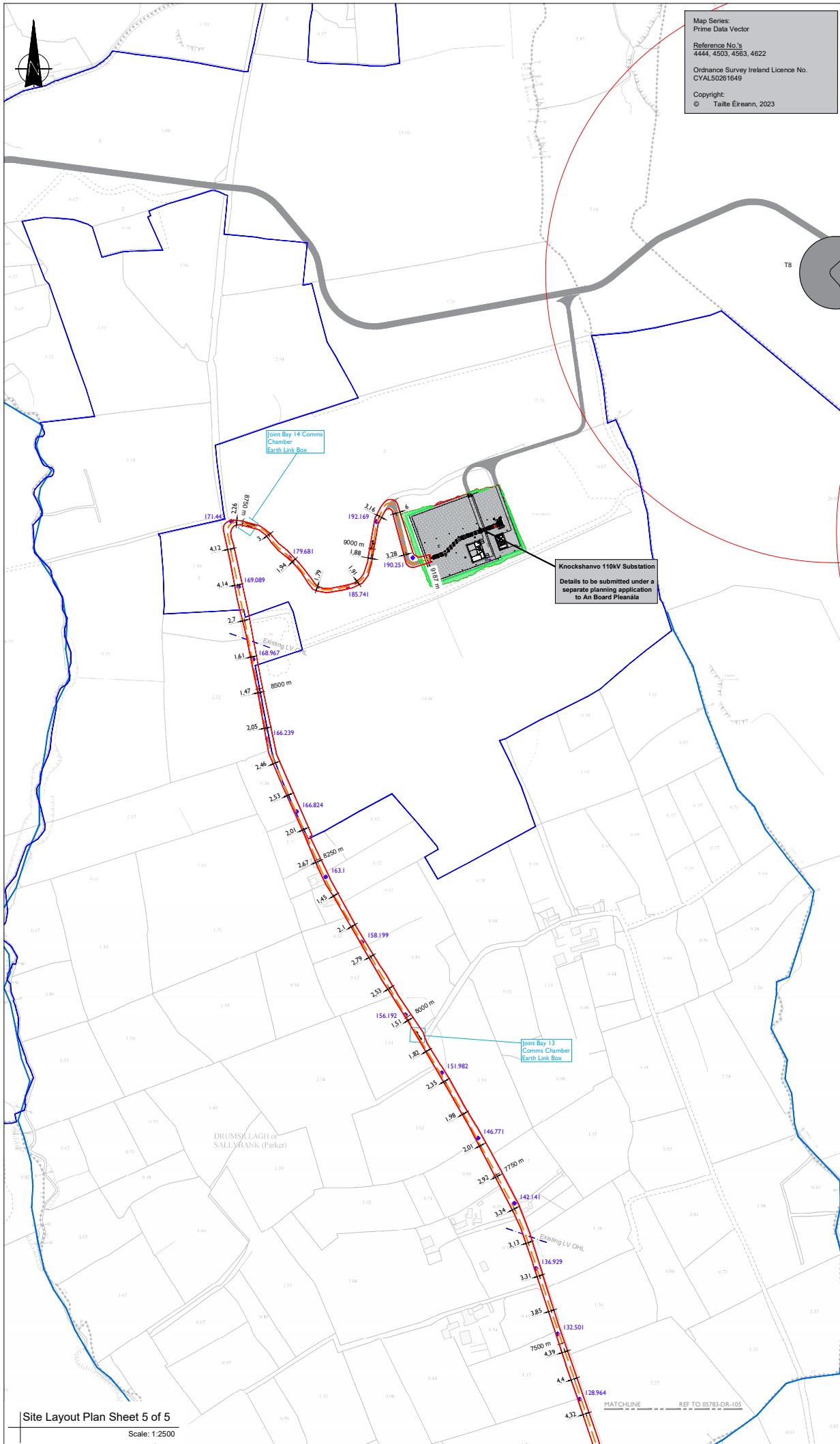
ISSUE/REVISION

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PE	19.08.24	Issued for Planning
PE	15.08.24	Issued for Planning
P4	01.08.24	Issued for Planning
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P2	05.06.24	Issued for Planning
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05-783

SHEET TITLE
Site Layout Plan
Sheet 5 of 5

SHEET NUMBER
05783-DR-105



Site Layout Plan Sheet 5 of 5
Scale: 1:2500