



APPENDIX 4-1

**SITE LAYOUT PLANNING
DRAWINGS**

**Proposed Wind Farm Development
Coole Wind Farm, Co. Westmeath
Planning Permission Application Drawings**





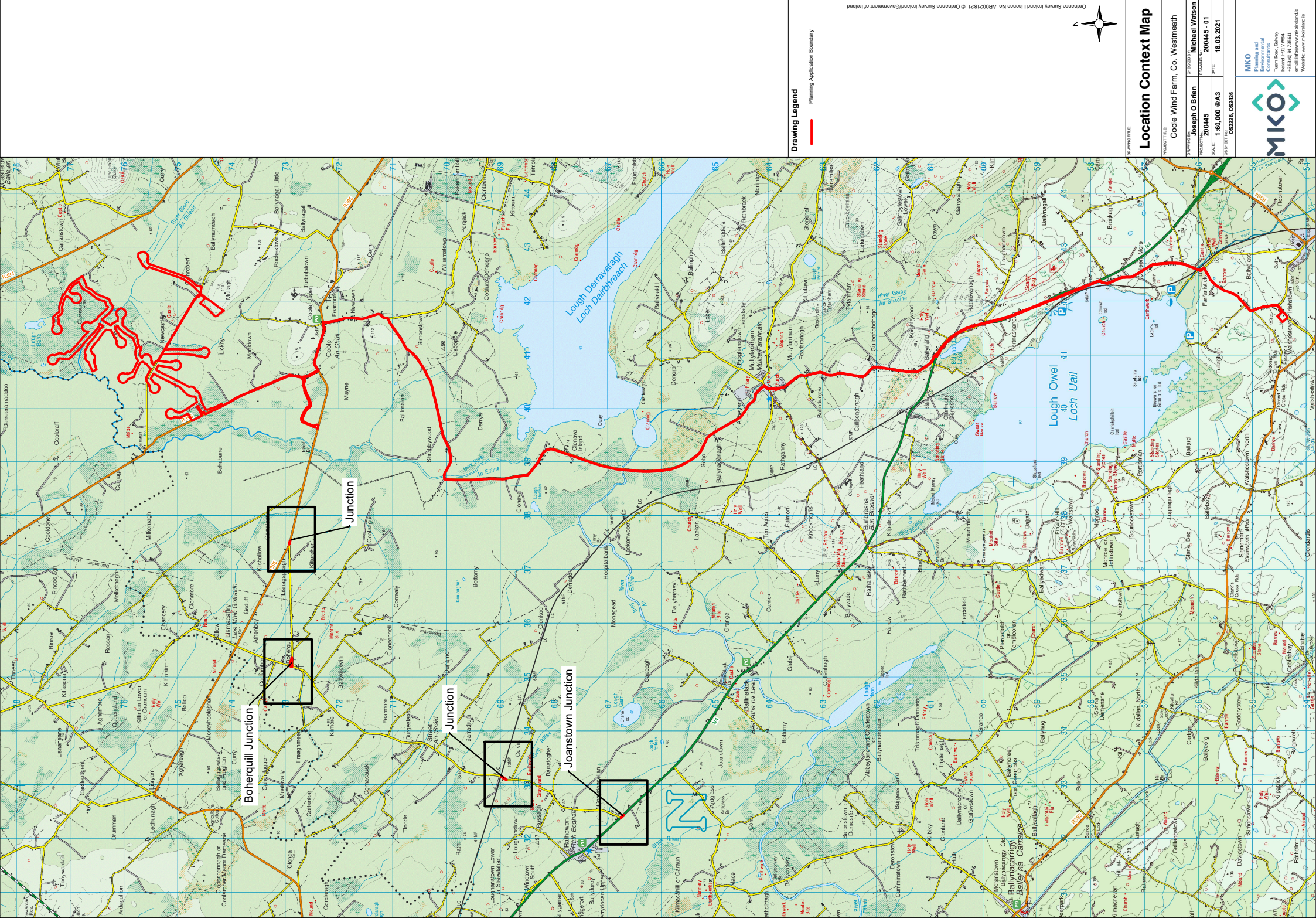
Schedule of Drawings

Drawing No.	Drawing Title	Scale	Page Size
200445 - 01	Location Context Map	1: 60,000	A3
200445 - 02	Site Location Map	1: 60,000	A3
200445 - 03	Site Location Key Plan	1: 30,000	A1
200445 - 04	Site Location Plan 1 of 9	1: 5,000	A1
200445 - 05	Site Location Plan 2 of 9	1: 5,000	A1
200445 - 06	Site Location Plan 3 of 9	1: 5,000	A1
200445 - 07	Site Location Plan 4 of 9	1: 5,000	A1
200445 - 08	Site Location Plan 5 of 9	1: 5,000	A1
200445 - 09	Site Location Plan 6 of 9	1: 5,000	A1
200445 - 10	Site Location Plan 7 of 9	1: 5,000	A1
200445 - 11	Site Location Plan 8 of 9	1: 5,000	A1
200445 - 12	Site Location Plan 9 of 9	1: 5,000	A1
200445 - 13	Site layout Key Plan B	1: 30,000	A1
200445 - 14	Site Layout Sheet 1 of 24	1: 2,500	A1
200445 - 15	Site Layout Sheet 2 of 24	1: 2,500	A1
200445 - 16	Site Layout Sheet 3 of 24	1: 2,500	A1
200445 - 17	Site Layout Sheet 4 of 24	1: 2,500	A1
200445 - 18	Site Layout Sheet 5 of 24	1: 2,500	A1
200445 - 19	Site Layout Sheet 6 of 24	1: 2,500	A1
200445 - 20	Site Layout Sheet 7 of 24	1: 2,500	A1
200445 - 21	Site Layout Sheet 8 of 24	1: 2,500	A1
200445 - 22	Site Layout Sheet 9 of 24	1: 2,500	A1
200445 - 23	Site Layout Sheet 10 of 24	1: 2,500	A1
200445 - 24	Site Layout Sheet 11 of 24	1: 2,500	A1
200445 - 25	Site Layout Sheet 12 of 24	1: 2,500	A1
200445 - 26	Site Layout Sheet 13 of 24	1: 2,500	A1
200445 - 27	Site Layout Sheet 14 of 24	1: 2,500	A1
200445 - 28	Site Layout Sheet 15 of 24	1: 2,500	A1
200445 - 29	Site Layout Sheet 16 of 24	1: 2,500	A1
200445 - 30	Site Layout Sheet 17 of 24	1: 2,500	A1
200445 - 31	Site Layout Sheet 18 of 24	1: 2,500	A1
200445 - 32	Site Layout Sheet 19 of 24	1: 2,500	A1
200445 - 33	Site Layout Sheet 20 of 24	1: 2,500	A1
200445 - 34	Site Layout Sheet 21 of 24	1: 2,500	A1
200445 - 35	Site Layout Sheet 22 of 24	1: 2,500	A1
200445 - 36	Site Layout Sheet 23 of 24	1: 2,500	A1
200445 - 37	Site Layout Sheet 24 of 24	1: 2,500	A1
200445 - 38	Temporary Construction Compound	1: 500	A3
200445 - 39	Substation Layout	1: 500	A3
200445 - 40	Borrow Pit Reinstatement	1: 2,000	A3
200445 - 41	Borrow Pit Sections	As Shown	A3
200445 - 42	Typical Wind Turbine Hardstanding & Elevations	1: 500	A1
200445 - 43	Indicative Turbine Foundation Standard Detail	As Shown	A3
200445 - 44	Type A Upgrade of Existing Excavated Access Tracks	1: 50	A3
200445 - 45	Type B Upgrade of Existing Floated Access Tracks	1: 50	A3
200445 - 46	Type C New Excavate and Replace Access Road	1: 50	A3
200445 - 47	Type D New Floated Access Road	1: 50	A3
200445 - 48	Transition Detail for Floated and Excavated Access Road	1: 50	A3
200445 - 49	Wastewater Holding Tank Typical Details	1: 20	A3
200445 - 50	Proposed Site Access A	1: 1,000	A3
200445 - 51	Proposed Site Access B	1: 1,000	A3
200445 - 52	Proposed Site Access C	1: 1,000	A3
200445 - 53	Proposed Site Access D	1: 1,000	A3
200445 - 54	Proposed Site Access E	1: 1,000	A3
200445 - 55	Proposed Site Access F & G	1: 1,000	A3
200445 - 56	Typical Clear Span Bridge (Crossing 1)	As Shown	A3
200445 - 57	Typical Clear Span Bridge (Crossing 2)	As Shown	A3
200445 - 58	Typical Clear Span Bridge (Crossing 3)	As Shown	A3
COLE d005.2.1	TYPICAL DETAILS ROAD SECTION TYPE A	1: 50	A3
COLE d005.2.2	TYPICAL DETAILS ROAD SECTION TYPE B	1: 50	A3
COLE d005.2.3	TYPICAL DETAILS ROAD SECTION TYPE C	1: 50	A3
COLE d005.2.4	TYPICAL DETAILS ROAD SECTION TYPE D	1: 50	A3
COLE d005.2.5	TYPICAL DETAILS ROAD SECTION TYPE E1	1: 50	A3
COLE d005.2.4	TYPICAL DETAILS ROAD SECTION TYPE E2	1: 50	A3
COLE d005.4.2	GRID ROUTE TRENCH TYPICAL DETAILS	1: 50	A3
COLE d007.2	110KV SUBSTATION COMPOUND ILLUSTRATIVE ELEVATIONS	1: 200	A1
COLE d007.3	CONTROL BUILDING: TYPICAL PLAN AND ELEVATIONS	1: 200	A3
COLE d007.4	IPP BUILDING: TYPICAL PLAN AND ELEVATIONS	1: 100	A3
COLE d005.3.1	BRIDGE CROSSINGS WH-L1825-001.00	1: 50	A3
COLE d005.3.2	BRIDGE CROSSINGS WH-L1825-002.00	1: 50	A3

Continued →



COLE d005.4.3	WATER CROSSINGS TYPICAL DETAIL - OVER	1: 50	A3
COLE d005.4.4	WATER CROSSINGS TYPICAL DETAIL - UNDER CULVERT	1: 50	A3
COLE d005.4.5	WATER CROSSINGS TYPICAL DETAIL - DIRECTIONAL DRILL	1: 50	A3
COLE d005.5.1	RAILWAY CROSSING ILLUSTRATIVE OPTIONS	1: 100	A1
COLE d005.5.2	RAILWAY CROSSING ILLUSTRATIVE OPTIONS	1: 100	A1
COLE d005.4.1	JOINT BAY TYPICAL DETAILS	1: 50	A3
COLE d006.1.1	MULLINGAR SUBSTATION ILLUSTRATIVE PLAN	1: 100	A1
COLE d006.1.2	MULLINGAR SUBSTATION EXTENSION EQUIPMENT DETAILS	1: 100	A1
P1320-2-0221-A1-D101-00A	Drainage Layout Sheet 1 of 7	1: 2,000	A1
P1320-2-0221-A1-D102-00A	Drainage Layout Sheet 2 of 7	1: 2,000	A1
P1320-2-0221-A1-D103-00A	Drainage Layout Sheet 3 of 7	1: 2,000	A1
P1320-2-0221-A1-D104-00A	Drainage Layout Sheet 4 of 7	1: 2,000	A1
P1320-2-0221-A1-D105-00A	Drainage Layout Sheet 5 of 7	1: 2,000	A1
P1320-2-0221-A1-D106-00A	Drainage Layout Sheet 6 of 7	1: 2,000	A1
P1320-2-0221-A1-D107-00A	Drainage Layout Sheet 7 of 7	1: 2,000	A1
P1320-2-0221-A1-501-00A	Drainage Details 1	As Shown	A1
P1320-2-0221-A1-502-00A	Drainage Details 2	As Shown	A1



Drawing Legend

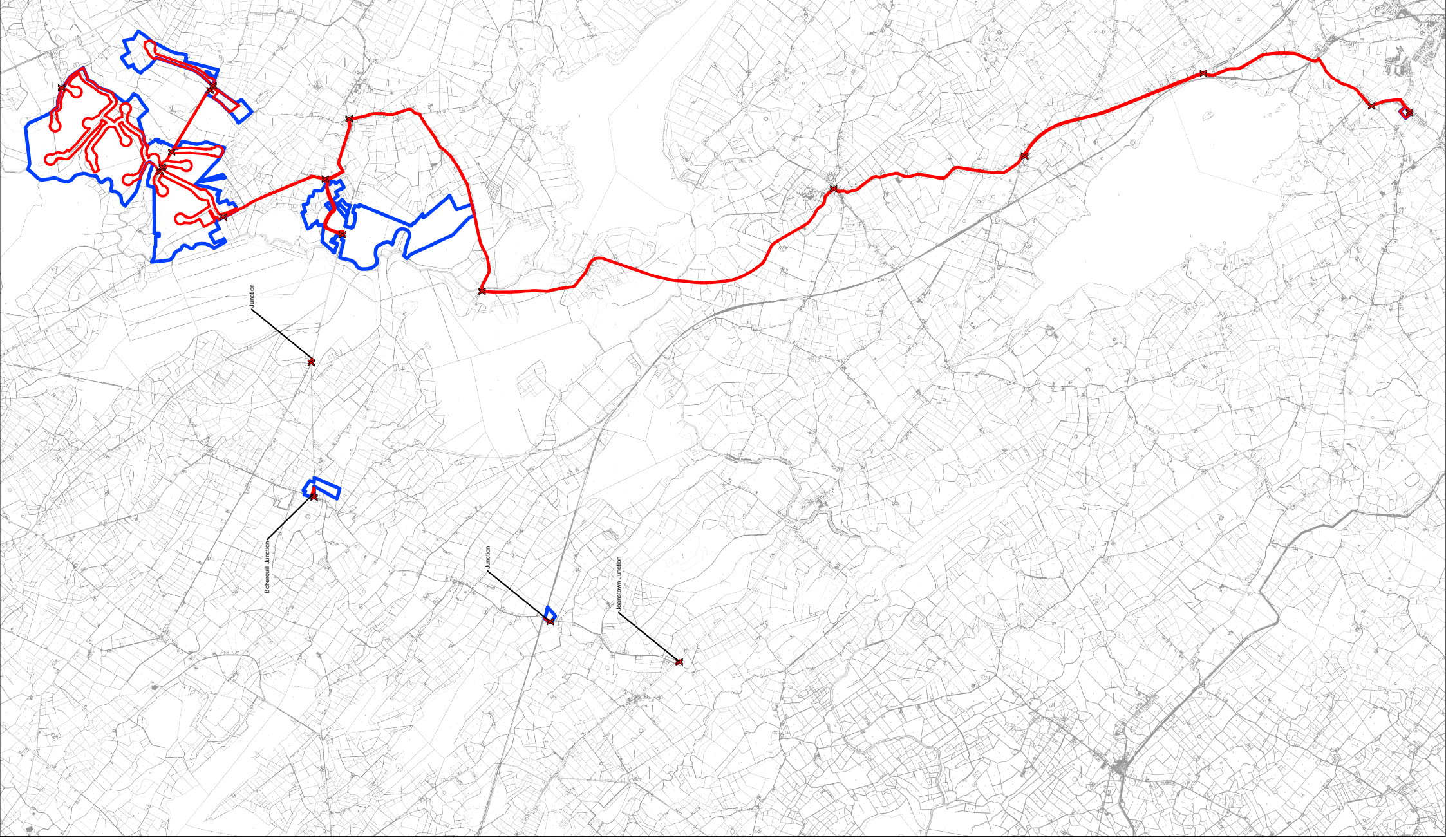
— Planning Application Boundary



Location Context Map

PROJECT TITLE: Coole Wind Farm, Co. Westmeath
 DRAWING NO: **Joseph O'Brien**
 PROJECT NO: **200445**
 SCALE: **1:60,000 @ A3**
 DATE: **18.03.2021**
 CLIENT: **Coole Wind Farm, Co. Westmeath**

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 Planning and Environmental
 Engineers
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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.
 9. Exact location of cable/joint bay in the road corridor to be confirmed by site inspections in agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Landward Boundary
- X Site Notice



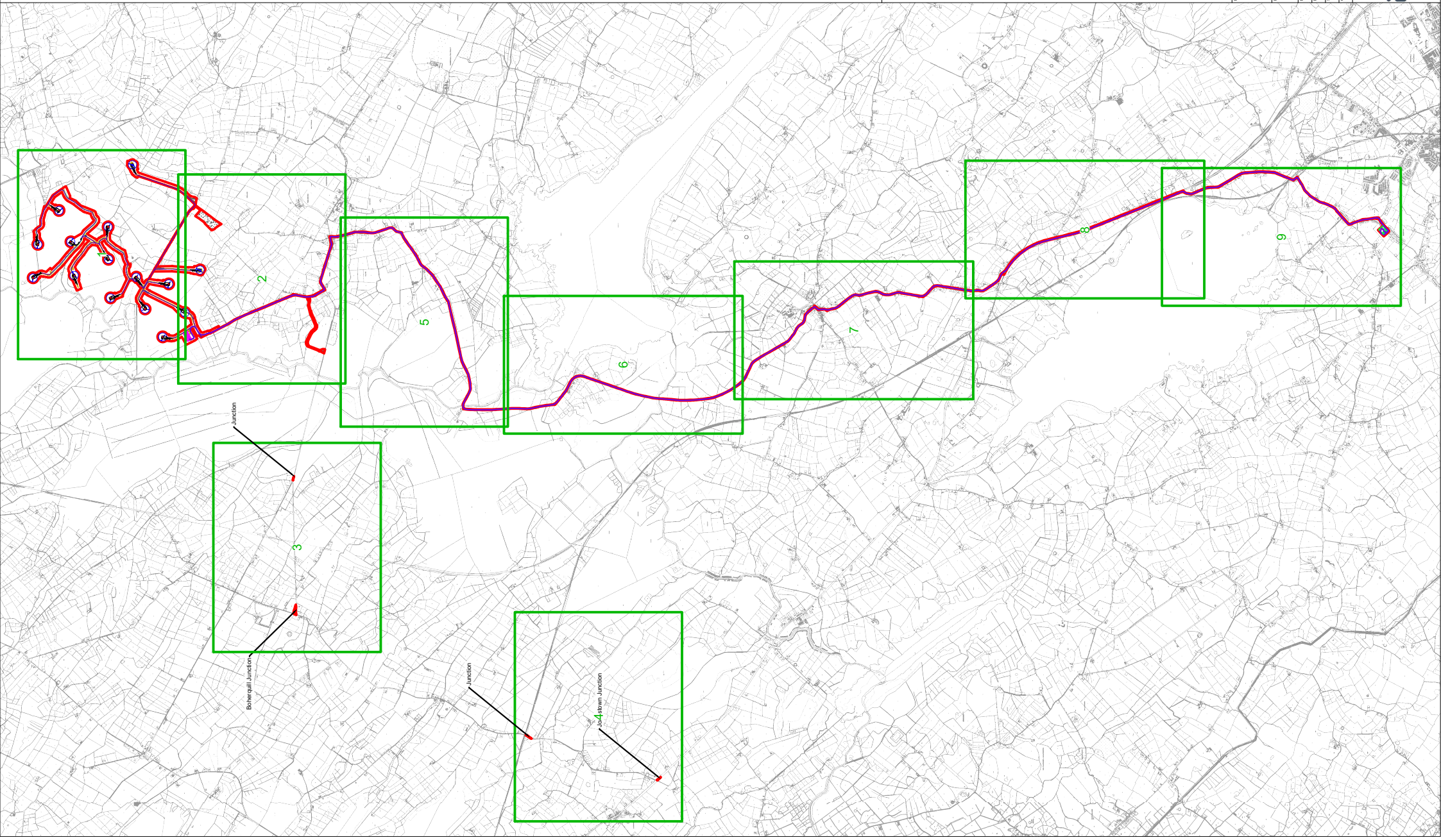
Site Location Map

DRAWING FILE: Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200-045	EX-DRAWING: 200-045 - 02
SCALE: 1:30,000 @ A1	DATE: 18.03.2021

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 6. Final levels may vary depending on local ground conditions.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Exact location of cable/joint bay in the road corridor to be agreed with the planning authorities in agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Existing External Road to be Upgraded
- Proposed Road
- Crane Pad Handstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow Pit
- Temporary Construction Compound
- Indicative Internal Electrical Cabling
- Indicative Grid Connection Route
- Wind Farm Substation
- Existing Mains Substation

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Site Location Key Plan

DRAWING TITLE

PROJECT TITLE: **Coole Wind Farm, Co. Westmeath**

DRAWING NO: **Joseph O'Brien** | CHECKED BY: **Michael Watson**

PROJECT NO: **200-045** | DRAWING NO: **200-045 - 03**

SCALE: **1:30,000 @ A1** | DATE: **18.03.2021**

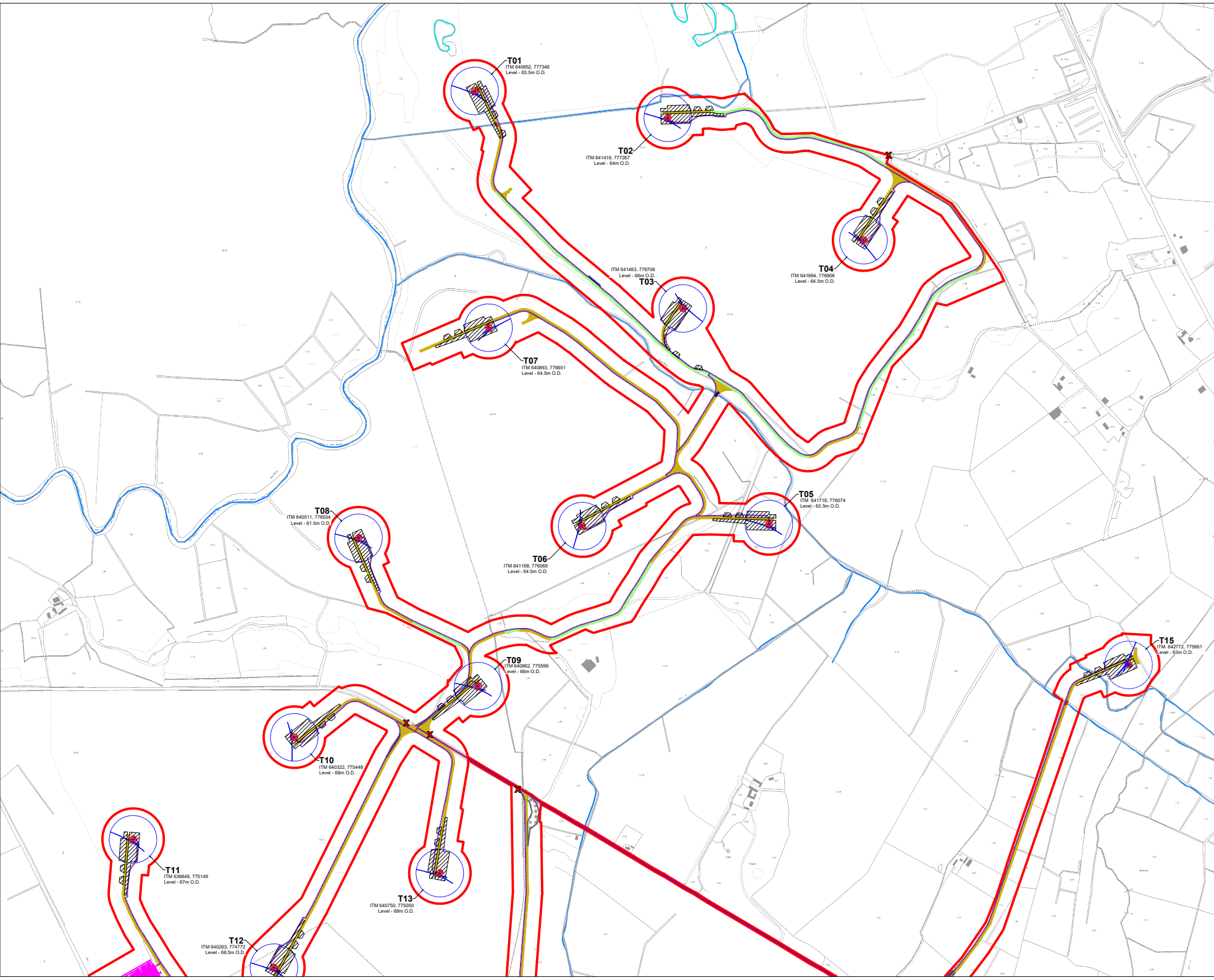
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council



Drawing Legend

- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Existing External Road to be Upgraded
- Proposed Road
- Proposed New Crossing
- Existing Crossing for Upgrade
- Passing Bays
- Unbound Hardcore Surface
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Temporary Construction Compound
- Indicative Internal Electrical Cabling
- Wind Farm Substation
- River/Stream
- Lakes



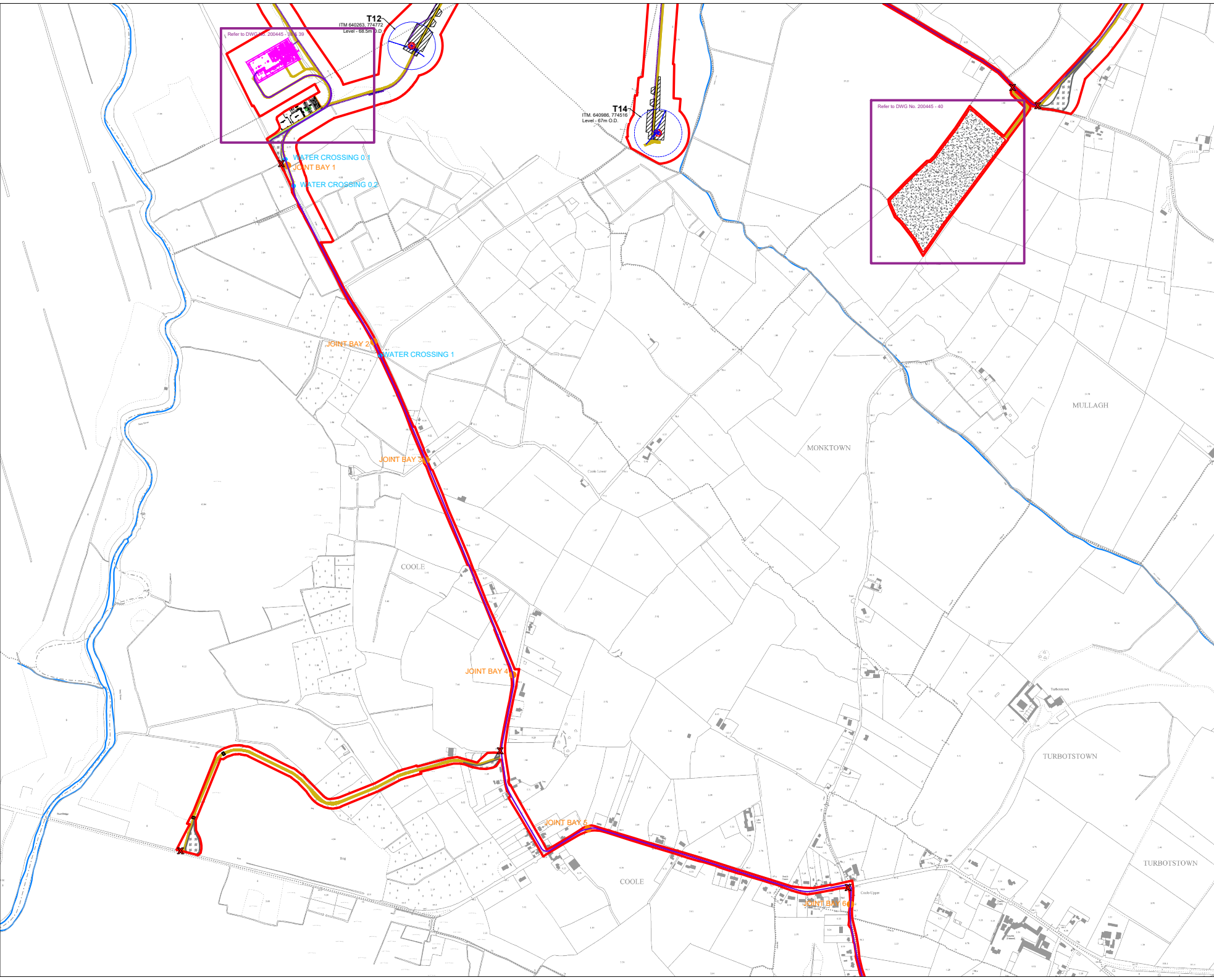
**Site Location Plan
Sheet 1 of 9**

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 04
SCALE: 1:5,000 @ A1	DATE: 18.03.2021

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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

Drawing Legend

	Planning Application Boundary
	Site Notice
	Existing Internal Road to be Upgraded
	Existing External Road to be Upgraded
	Proposed Road
	Proposed New Crossing
	Passing Bays
	Unbound Hardcore Surface
	Crossing Point for Landowners
	Crane Pad Hardstanding Area
	Turbine Foundation
	Turbine Sweep Area
	Borrow Pit
	Indicative Internal Electrical Cabling
	Indicative Grid Connection Route
	Wind Farm Substation
	Indicative Joint Bay
	Watercrossing
	River/Stream

Site Location Plan
Sheet 2 of 9

PROJECT TITLE: **Coole Wind Farm, Co. Westmeath**

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Michael Watson**

PROJECT NO: **200445** DRAWING NO: **200445 - 05**

SCALE: **1:5,000 @ A1** DATE: **18.03.2021**

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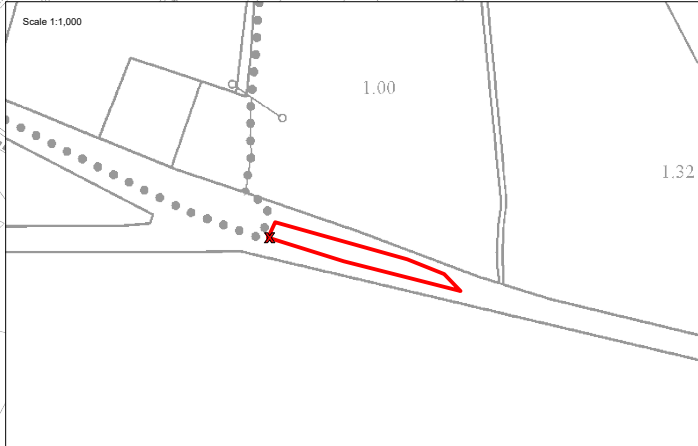
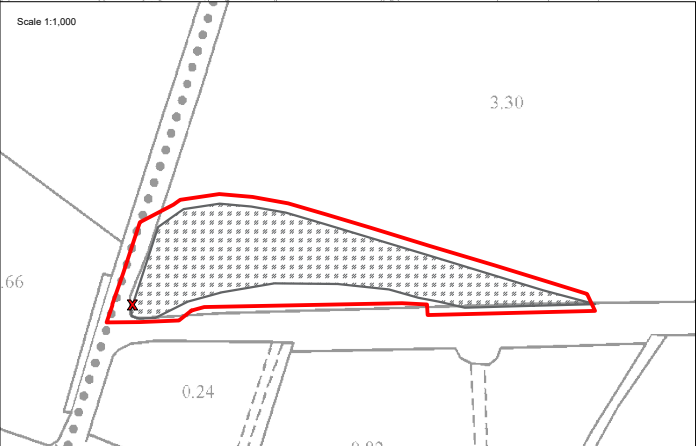
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

Drawing Legend

-  Planning Application Boundary
-  Unbound Hardcore Surface
-  Site Notice



**Site Location Plan
Sheet 3 of 9**


PROJECT TITLE: **Cooile Wind Farm, Co. Westmeath**

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Michael Watson**

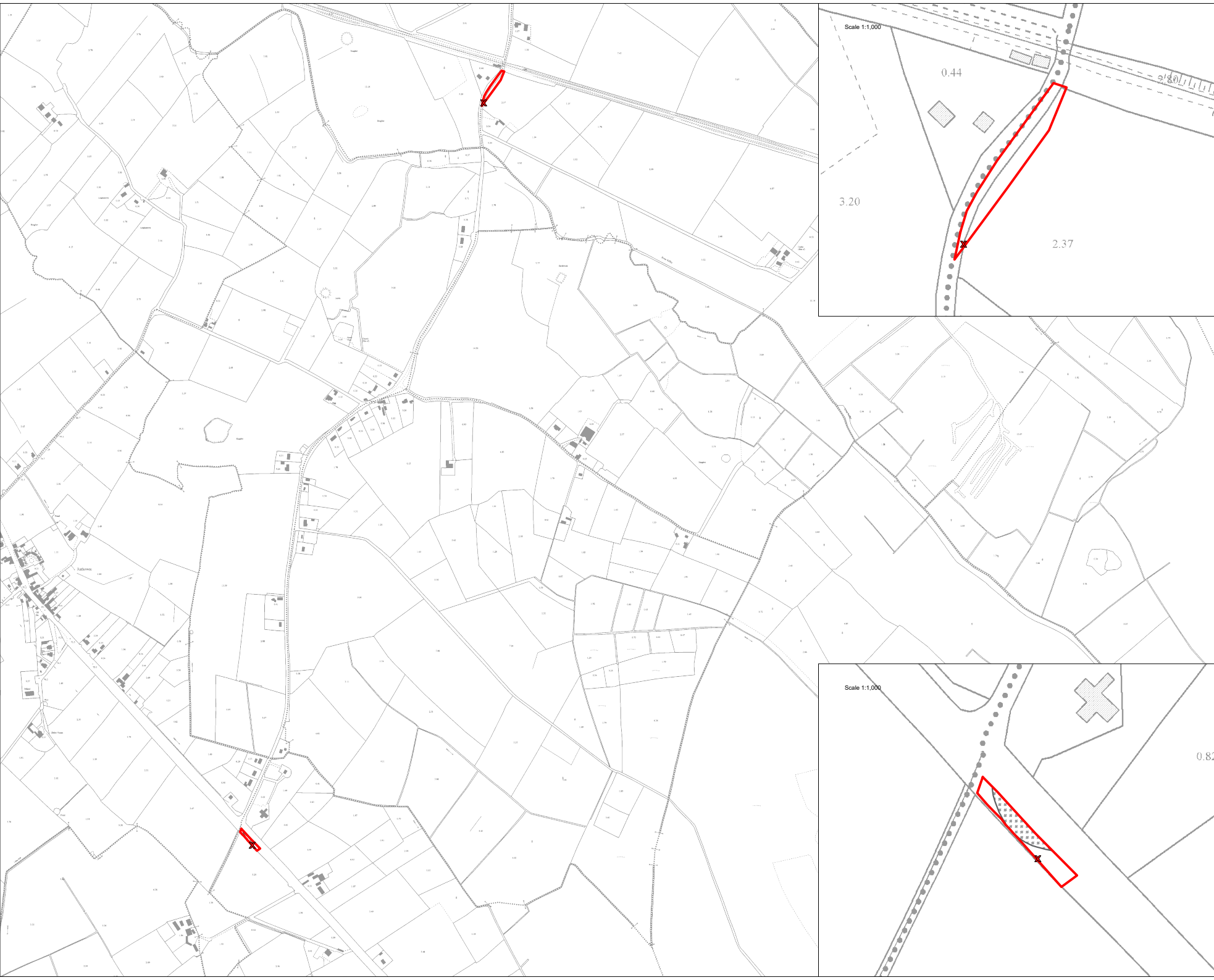
PROJECT NO: **200445** DRAWING NO: **200445 - 06**

SCALE: **1:5,000 @ A1** DATE: **18.03.2021**

FOR SHEET NO: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



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 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Unbound Hardcore Surface
 - Site Notice

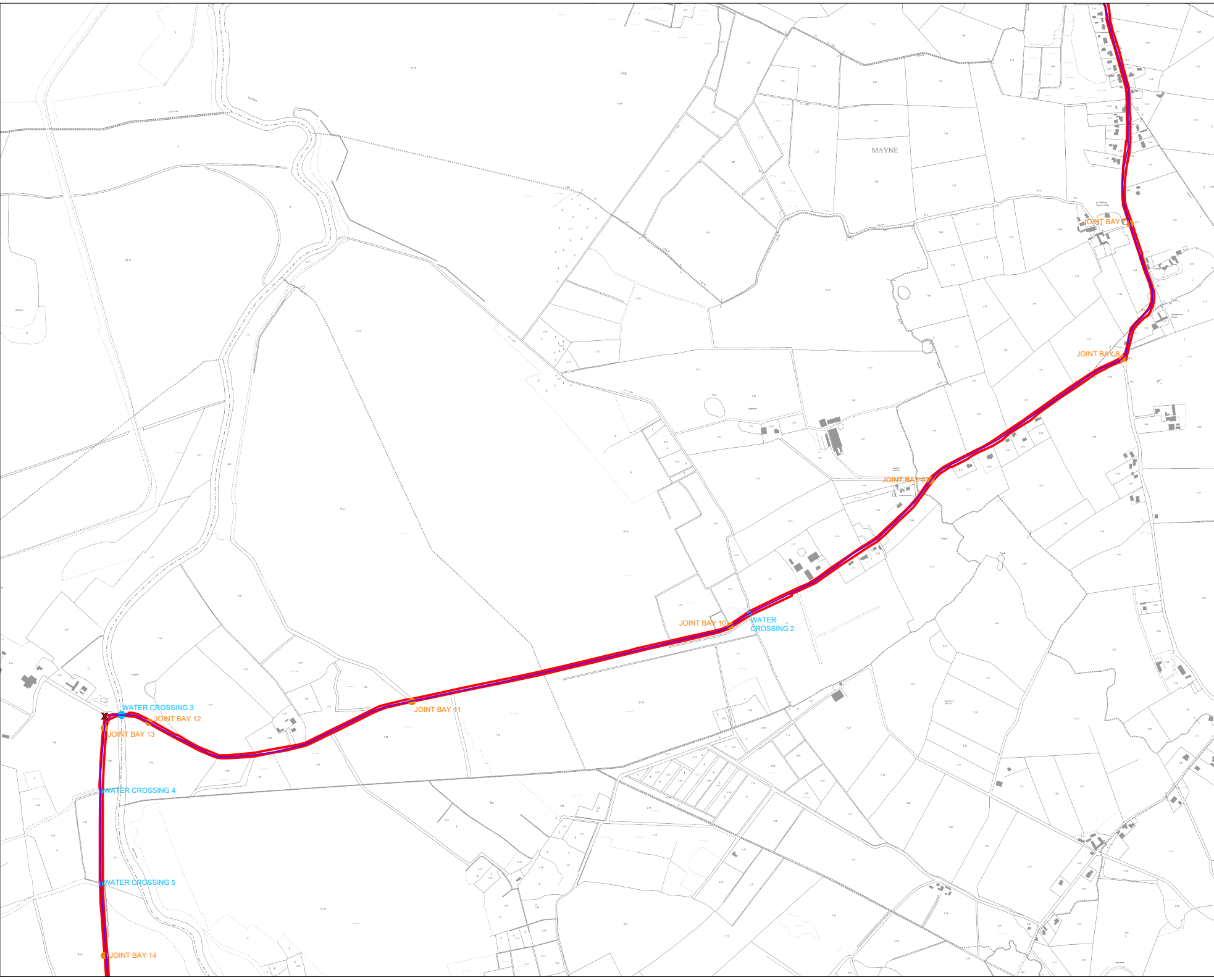
Site Location Plan
Sheet 4 of 9

Coole Wind Farm, Co. Westmeath

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Michael Watson**
 PROJECT NO: **200445** DRAWING NO: **200445 - 07**
 SCALE: **1:5,000 @ A1** DATE: **18.03.2021**






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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

Drawing Legend

-  Planning Application Boundary
-  Site Notice
-  Indicative Grid Connection Route
-  Indicative Joint Bay
-  Watercrossing



**Site Location Plan
Sheet 5 of 9**

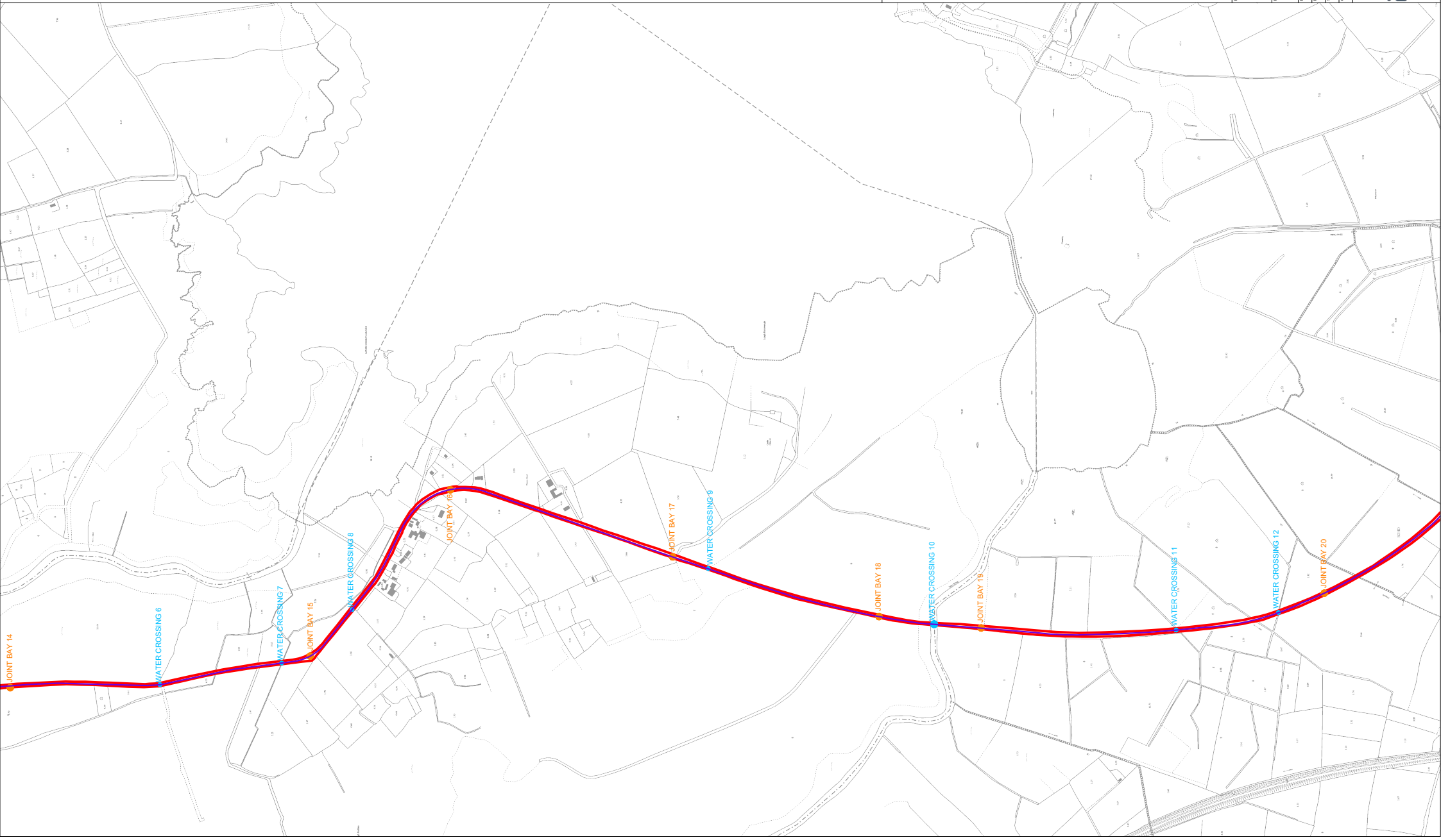
PROJECT TITLE: **Cooile Wind Farm, Co. Westmeath**

DRAWING BY: Joseph O Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 08
SCALE: 1:5,000 @ A1	DATE: 18.03.2021



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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.
 9. Exact location of cable/joint bay in the road corridor to be determined by the contractor in agreement with Westmeath County Council.

Drawing Legend

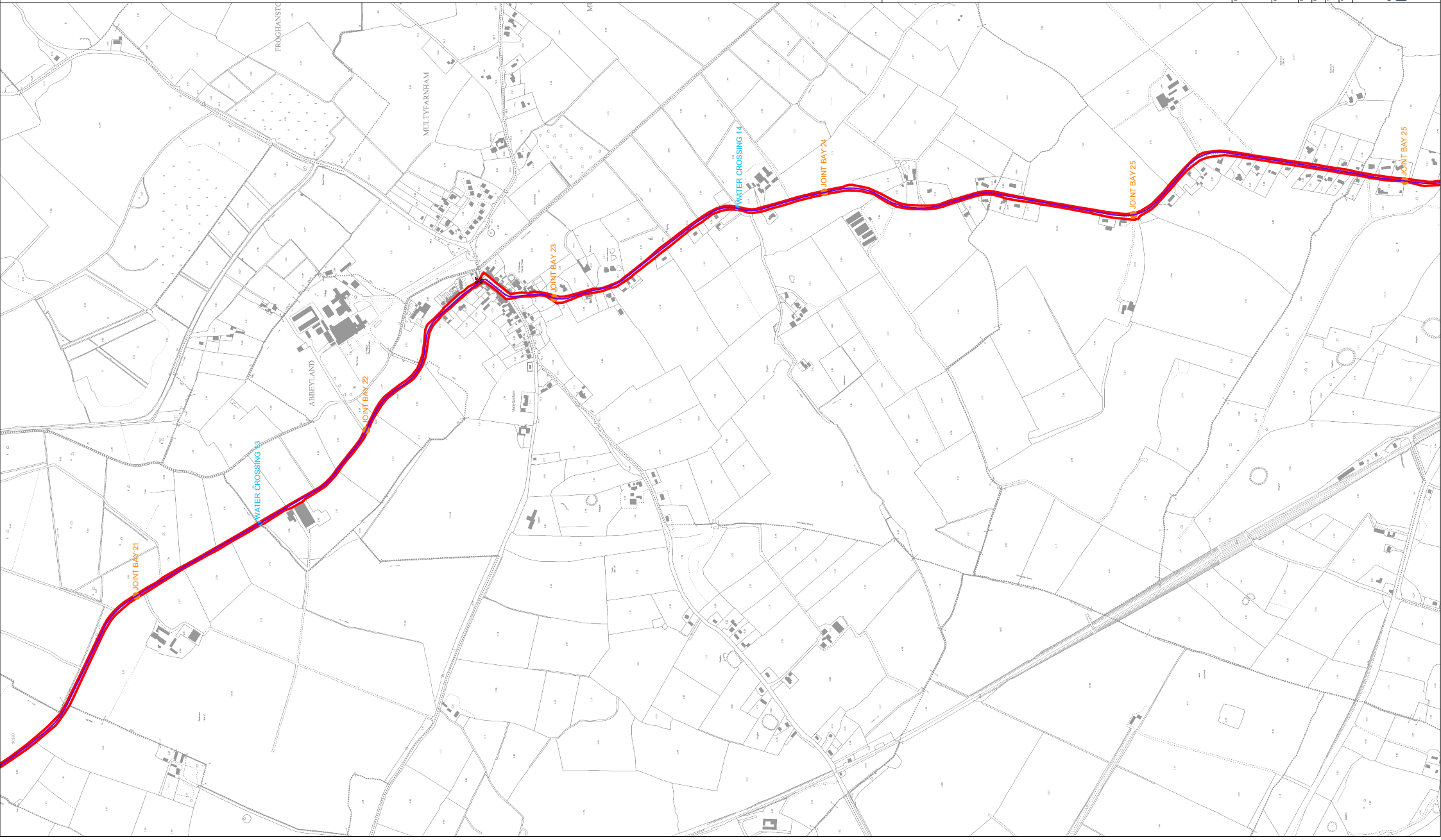
- Planning Application Boundary
- Indicative Grid Connection Route
- Indicative Joint Bay
- Watercrossing



**Site Location Plan
Sheet 6 of 9**

ORANMORE T116
 PROJECT TITLE: **Coole Wind Farm, Co. Westmeath**
 DRAWING BY: **Joseph O'Brien**
 PROJECT NO: **200445**
 SCALE: **1:5,000 @ A1**
 CHECKED BY: **Michael Watson**
 DATE: **18.03.2021**
 EX-DRAWING: **200445 - 09**

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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Exact location of cable/joint bay in the road corridor to be agreed with the local authority. All dimensions and levels are in accordance with the specifications and agreement with Westmeath County Council.

Drawing Legend

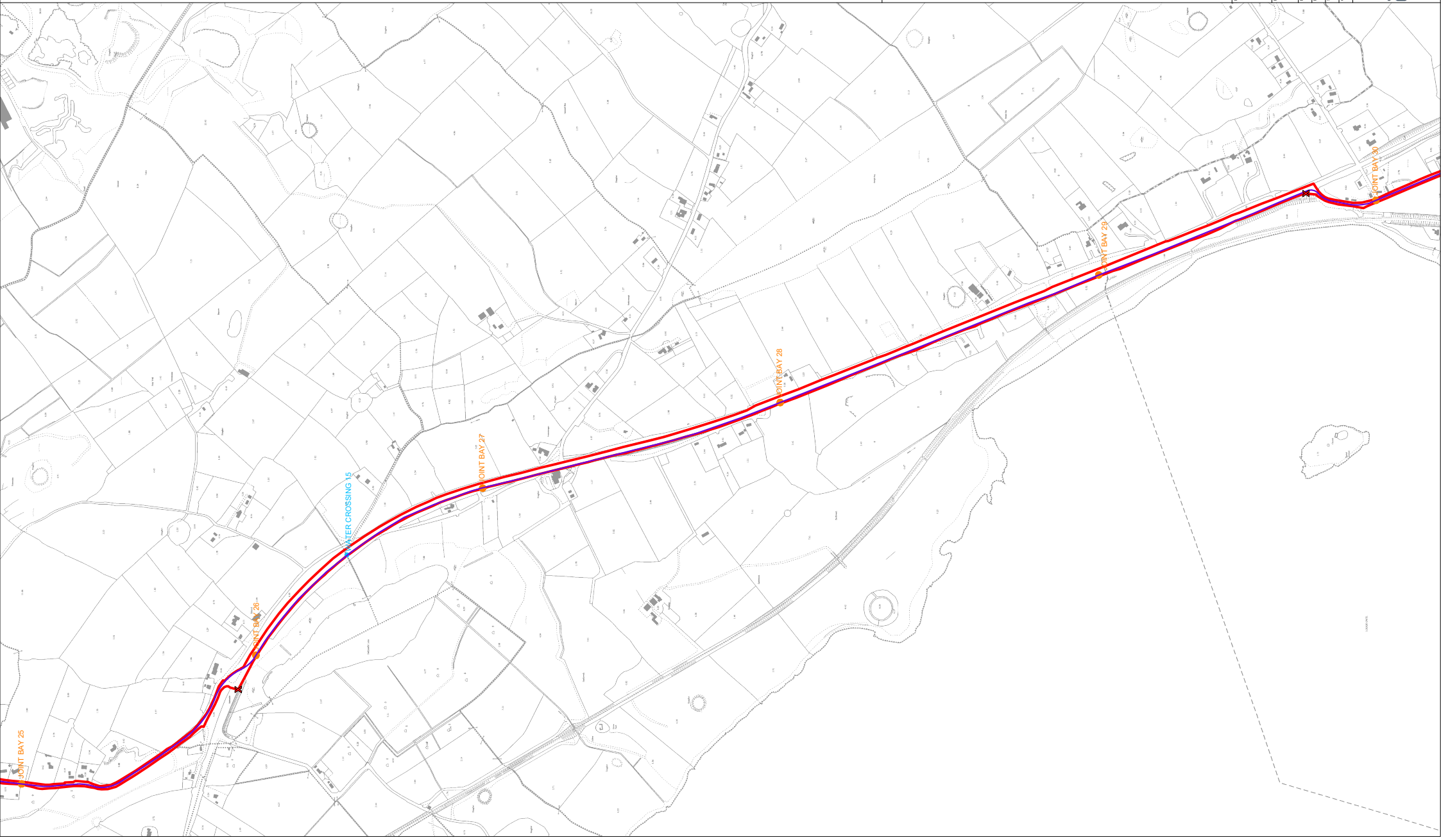
-  Planning Application Boundary
-  Site Notice
-  Indicative Grid Connection Route
-  Indicative Joint Bay
-  Watercrossing



**Site Location Plan
Sheet 7 of 9**

DRAWING TITLE: **Coole Wind Farm, Co. Westmeath**
 DRAWING NO: **Joseph O'Brien**
 PROJECT NO: **200445**
 SCALE: **1:5,000 @ A1**
 DATE: **18.03.2021**


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 6. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 7. Final levels may vary depending on local ground conditions.
 8. Exact location of cable/joint bay in the road corridor to be agreed with the local planning authorities in agreement with Westmeath County Council.

Drawing Legend

-  Planning Application Boundary
-  Site Notice
-  Indicative Grid Connection Route
-  Indicative Joint Bay
-  Watercrossing



**Site Location Plan
Sheet 8 of 9**

OWNER: **Coole Wind Farm, Co. Westmeath**

DRAWING BY: **Joseph O'Brien** | CHECKED BY: **Michael Watson**

PROJECT NO.: **200445** | DRAWING NO.: **200445 - 11**

SCALE: **1:5,000 @ A1** | DATE: **18.03.2021**

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Web site: www.mkoinfo.ie

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 6. Final levels may vary depending on local ground conditions.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Exact location of cable/joint bay in the road corridor to be confirmed by the contractor in agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Site Notice
- Indicative Grid Connection Route
- Indicative Joint Bay
- Watercrossing
- Existing Mullingar Substation

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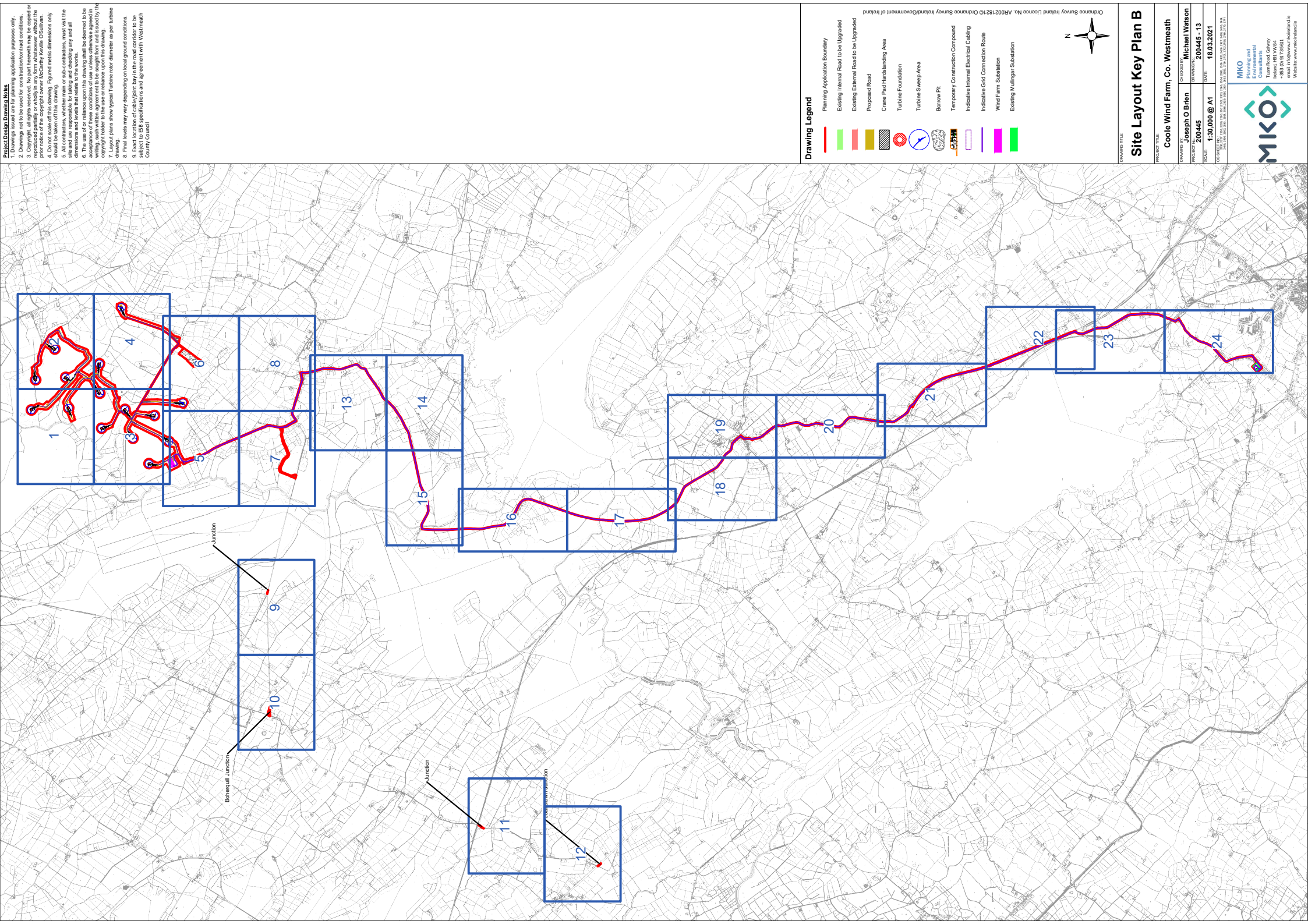
**Site Location Plan
Sheet 9 of 9**

OWNER: Joseph O'Brien
 PROJECT NO: 200-445
 SCALE: 1:5,000 @ A1

DESIGNER: Michael Watson
 DRAWING NO: 200-445 - 12
 DATE: 18.03.2021

ORDNANCE SURVEY IRELAND: 1:50,000 (OS 600) AND 1:25,000 (OS 500) DATA. THE DATA HAS BEEN CHECKED AND FOUND TO BE CORRECT FOR THE DATE OF THE SURVEY. THE DATA IS NOT TO BE USED FOR ANY OTHER PURPOSE.

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 6. Final levels may vary depending on local ground conditions.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Exact location of cable/joint bay in the road corridor to be agreed with the relevant utility providers in agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Existing External Road to be Upgraded
- Proposed Road
- Crane Pad Handstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow Pit
- Temporary Construction Compound
- Indicative Internal Electrical Cabling
- Indicative Grid Connection Route
- Wind Farm Substation
- Existing Mains Substation

Site Layout Key Plan B

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DRAWING TITLE: **Coole Wind Farm, Co. Westmeath**

PROJECT NO: **200-445**

SCALE: **1:30,000 @ A1**

DATE: **18.03.2021**

DESIGNED BY: **Joseph O'Brien**

DRAWN BY: **Michael Watson**

CHECKED BY: **Joseph O'Brien**

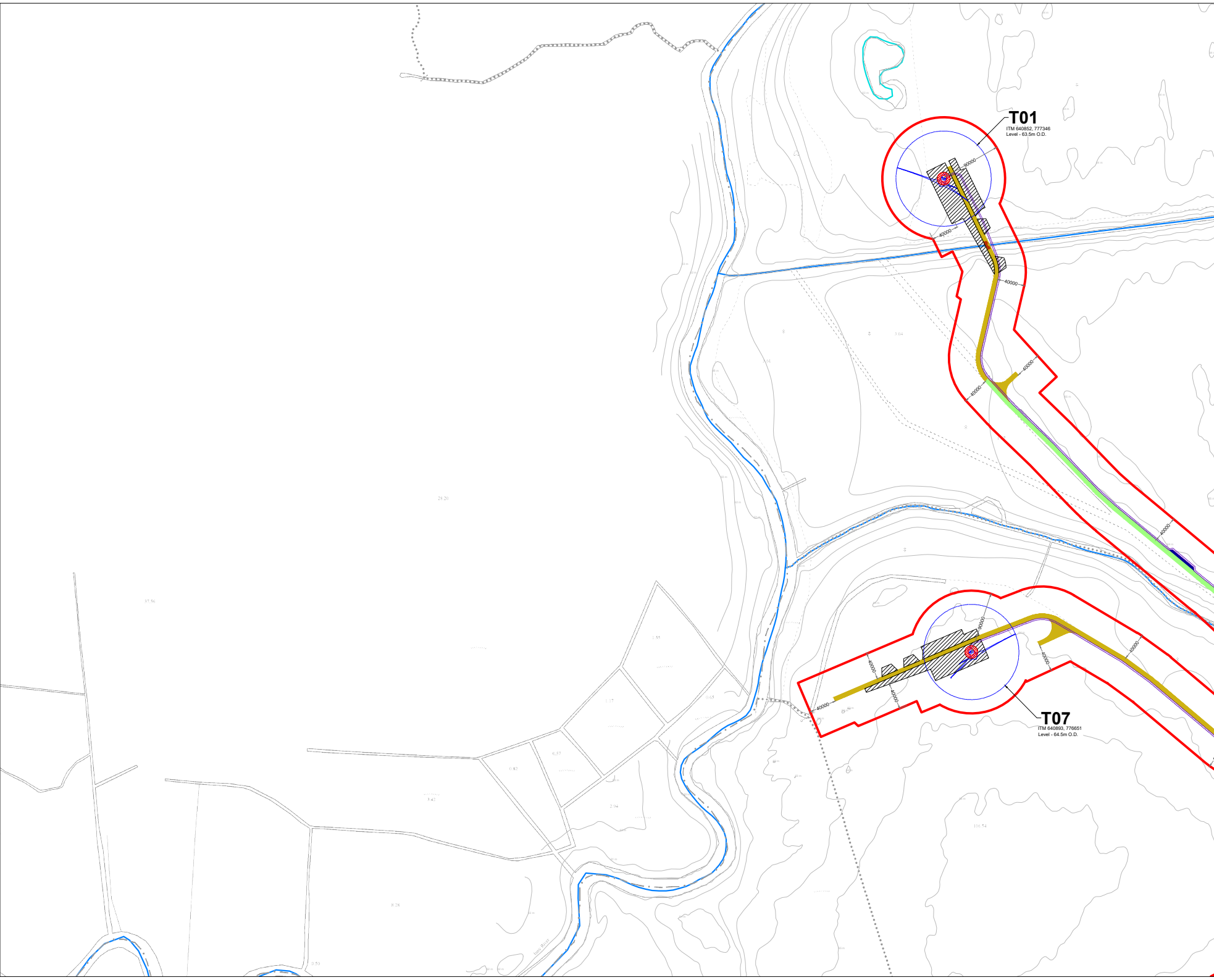
PROJECT NO: **200-445**

SCALE: **1:30,000 @ A1**

DATE: **18.03.2021**

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Existing Internal Road to be Upgraded
 - Proposed Road
 - Proposed New Crossing
 - Passing Bays
 - Crane Pad Hardstanding Area
 - Turbine Foundation
 - Turbine Sweep Area
 - Indicative Internal Electrical Cabling
 - River/Stream



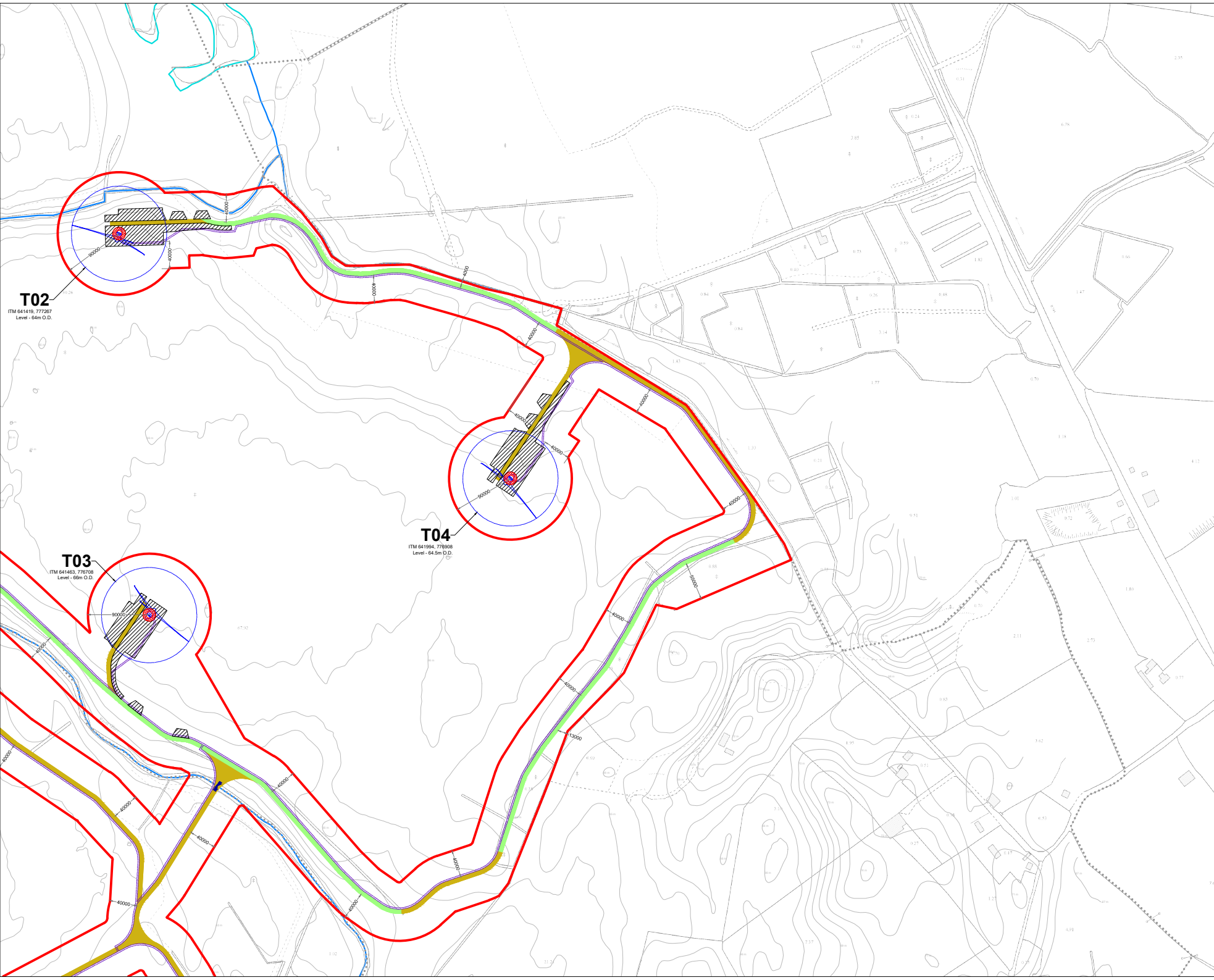
Site Layout Plan Sheet 1 of 24

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 14
SCALE: 1:2,500 @ A1	DATE: 18.03.2021

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Existing Internal Road to be Upgraded
 - Proposed Road
 - Existing Crossing for Upgrade
 - Crane Pad Handstanding Area
 - Turbine Foundation
 - Turbine Sweep Area
 - Indicative Internal Electrical Cabling
 - River/Stream
 - Lakes

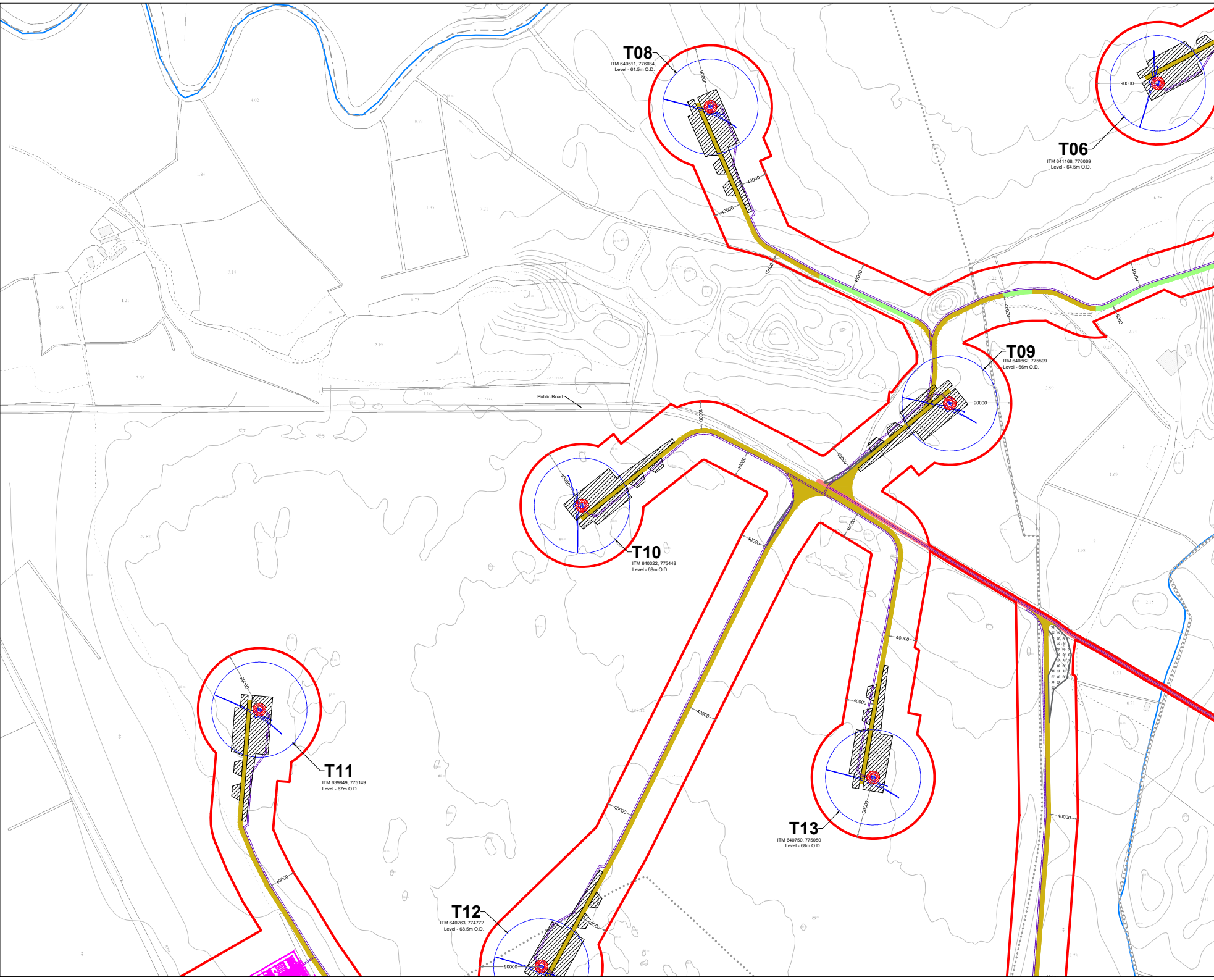
**Site Layout Plan
Sheet 2 of 24**

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 15
SCALE: 1:2,500 @ A1	DATE: 18.03.2021

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T08
ITM 640511, 776034
Level - 61.5m O.D.

T06
ITM 641168, 776069
Level - 64.5m O.D.

T09
ITM 640602, 775999
Level - 66m O.D.

T10
ITM 640322, 775448
Level - 68m O.D.

T11
ITM 638845, 775149
Level - 67m O.D.

T13
ITM 640750, 775050
Level - 68m O.D.

T12
ITM 640283, 774772
Level - 68.5m O.D.

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Existing Internal Road to be Upgraded
 - Existing External Road to be Upgraded
 - Proposed Road
 - Existing Crossing for Upgrade
 - Unbound Hardcore Surface
 - Crane Pad Hardstanding Area
 - Turbine Foundation
 - Turbine Sweep Area
 - Indicative Internal Electrical Cabling
 - Wind Farm Substation
 - River/Stream



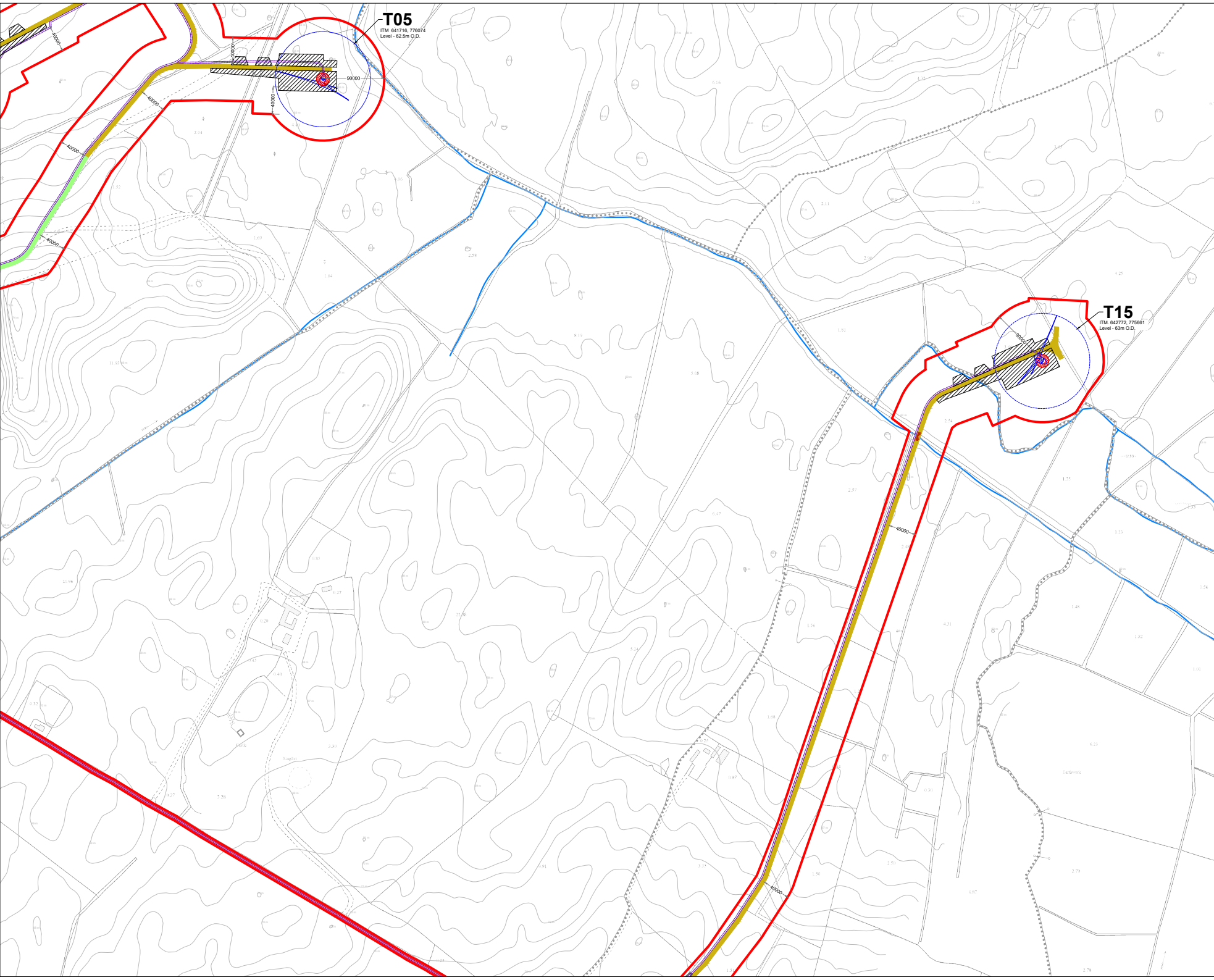
**Site Layout Plan
Sheet 3 of 24**

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 16
SCALE: 1:2,500 @ A1	DATE: 18.03.2021

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Existing Internal Road to be Upgraded
 - Existing External Road to be Upgraded
 - Proposed Road
 - Proposed New Crossing
 - Crane Pad Hardstanding Area
 - + Turbine Foundation
 - + Turbine Sweep Area
 - Indicative Internal Electrical Cabling
 - Wind Farm Substation
 - River/Stream



Site Layout Plan Sheet 4 of 24

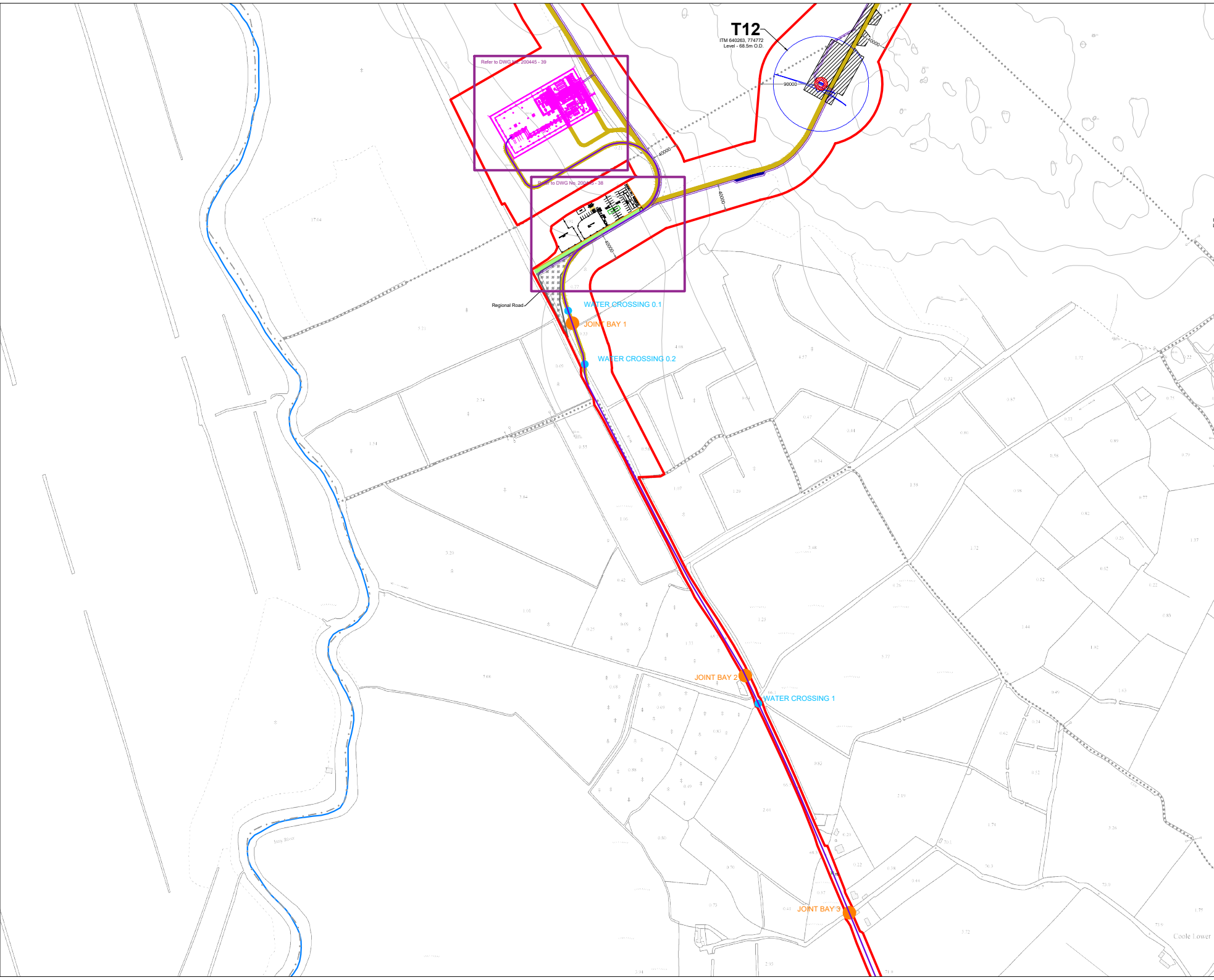
Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien		CHECKED BY: Michael Watson	
PROJECT NO: 200445		DRAWING NO: 200445 - 17	
SCALE: 1:2,500 @ A1		DATE: 18.03.2021	

FOR SHEET 17: 1:2,500 @ A1

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T12
 TM 840265, 774772
 Level: 46.5m O.D.

Refer to DWG No. 200445 - 39

Refer to DWG No. 200445 - 38

Regional Road

WATER CROSSING 0.1

JOINT BAY 1

WATER CROSSING 0.2

JOINT BAY 2

WATER CROSSING 1

JOINT BAY 3

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

Drawing Legend

- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Existing External Road to be Upgraded
- Proposed Road
- Unbound Hardcore Surface
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Temporary Construction Compound
- Indicative Internal Electrical Cabling
- Indicative Grid Connection Route
- Wind Farm Substation
- Spot Height
- Indicative Joint Bay
- Watercrossing
- River/Stream



Site Layout Plan
Sheet 5 of 24

PROJECT TITLE: **Coole Wind Farm, Co. Westmeath**

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Michael Watson**

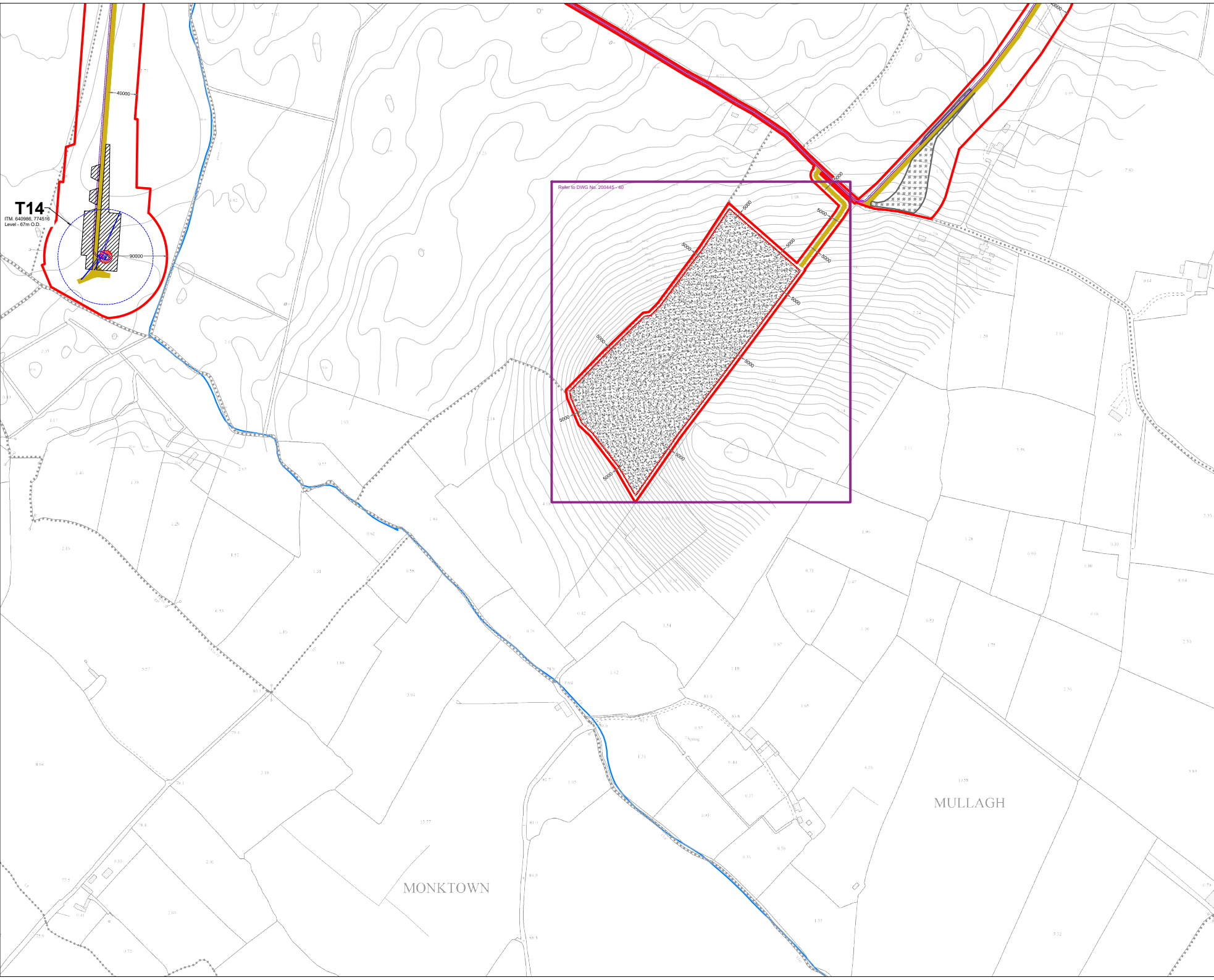
PROJECT NUMBER: **200445** DRAWING NUMBER: **200445 - 18**

SCALE: **1:2,500 @ A1** DATE: **18.03.2021**

FOR SHEET NO.:

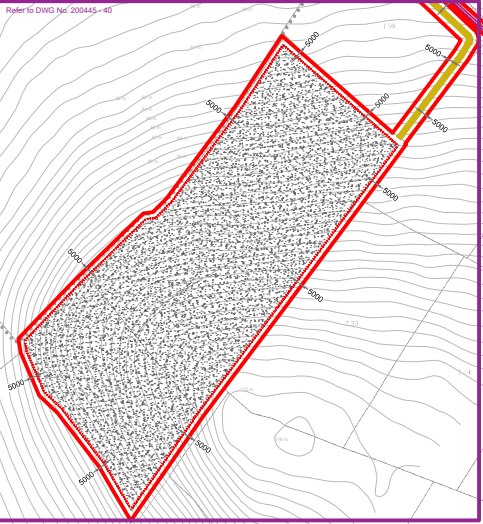
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

T14
 ITM: 640980, 774516
 Elev: 67m O.D.



Drawing Legend

- Planning Application Boundary
- Existing External Road to be Upgraded
- Proposed Road
- Unbound Hardcore Surface
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow Pit
- Indicative Internal Electrical Cabling
- River/Stream

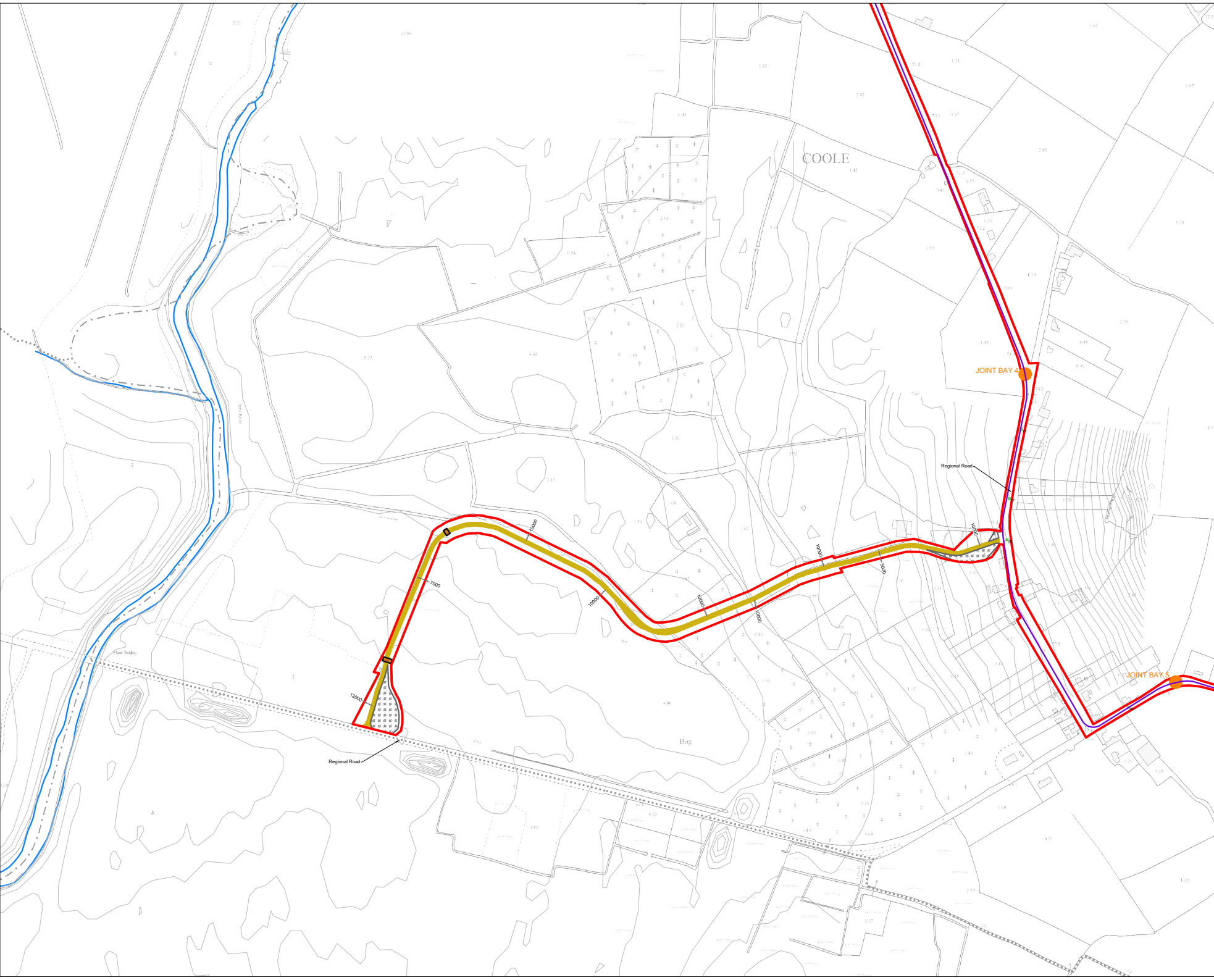


Site Layout Plan Sheet 6 of 24

PROJECT TITLE Coole Wind Farm, Co. Westmeath	
DRAWING BY Joseph O'Brien	CHECKED BY Michael Watson
PROJECT No. 200445	DRAWING No. 200445 - 19
SCALE 1:2,500 @ A1	DATE 18.03.2021

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - Unbound Hardcore Surface
 - Crossing Point for Landowners
 - Indicative Grid Connection Route
 - X Spot Height
 - Indicative Joint Bay
 - River/Stream



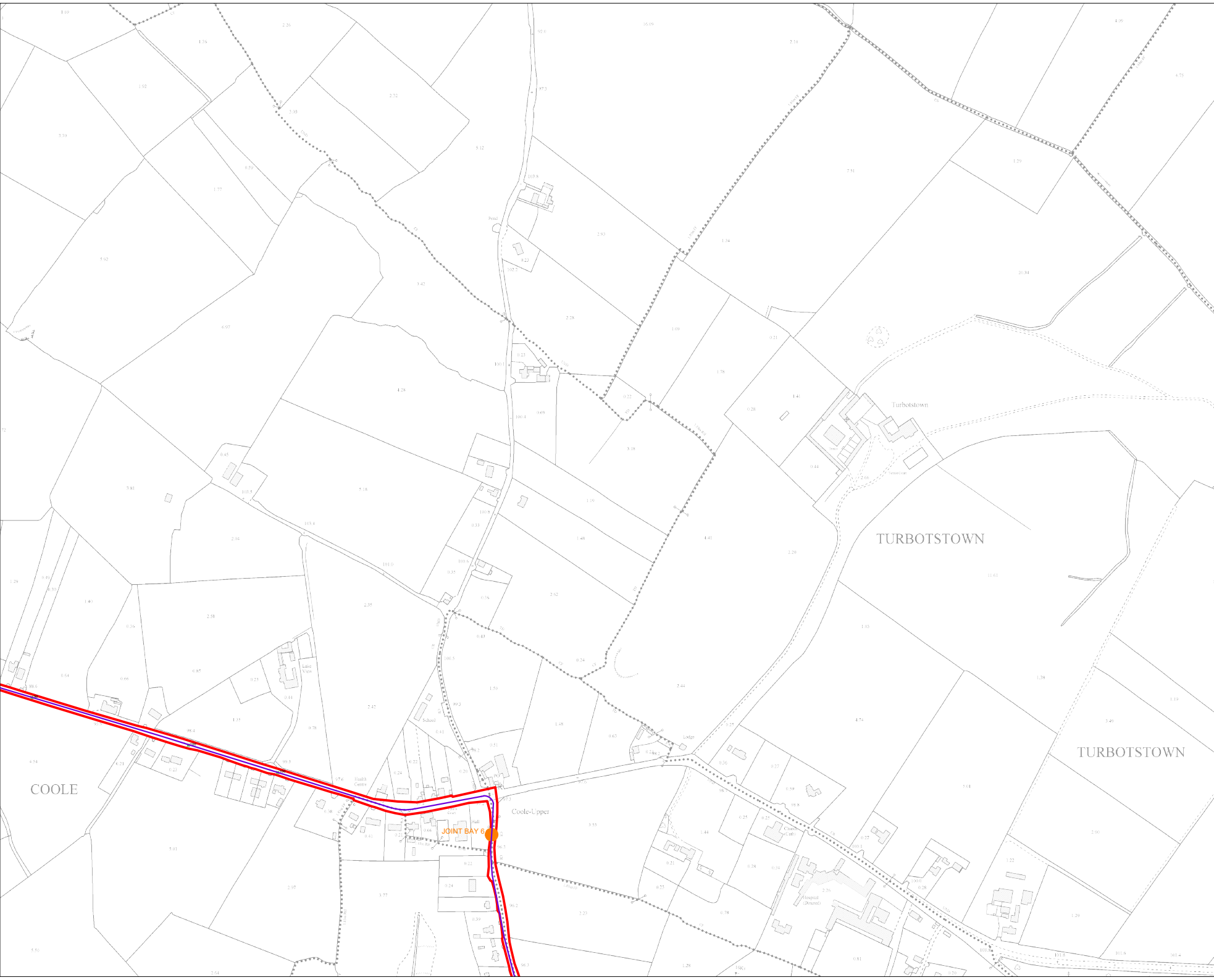
Site Layout Plan Sheet 7 of 24

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT No: 200445	DRAWING No: 200445 - 20
SCALE: 1:2,500 @ A1	DATE: 18.03.2021

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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - Spot Height
 - Indicative Joint Bay



**Site Layout Plan
Sheet 8 of 24**

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien		CHECKED BY: Michael Watson	
PROJECT NO: 200445		DRAWING NO: 200445 - 21	
SCALE: 1:2,500 @ A1		DATE: 18.03.2021	


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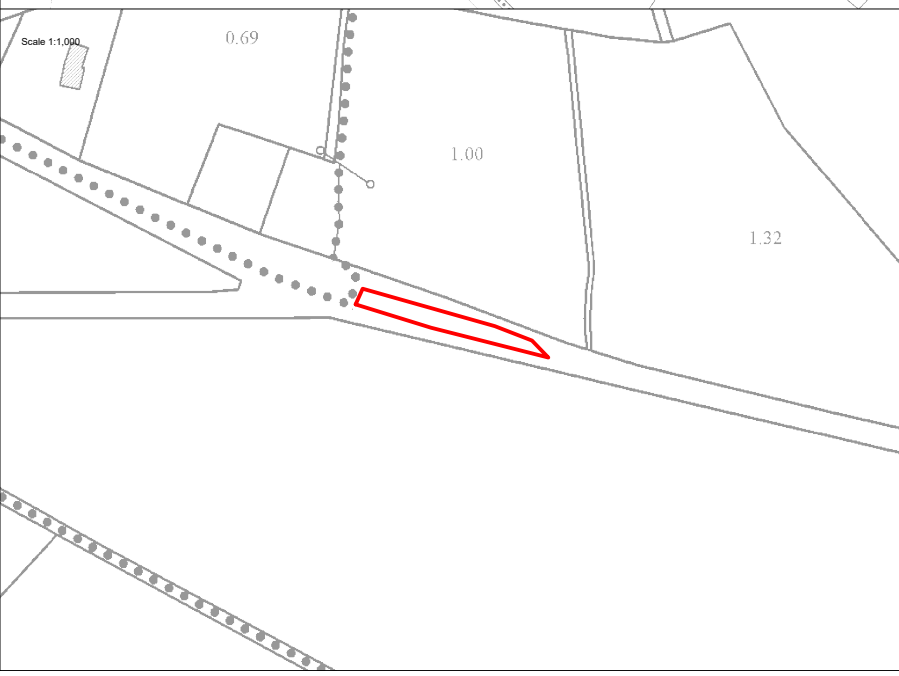
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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council



Drawing Legend

 Planning Application Boundary

Scale 1:1,000



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**Site Layout Plan
Sheet 9 of 24**

Coole Wind Farm, Co. Westmeath

DRAWING BY: **Joseph O Brien** CHECKED BY: **Michael Watson**

PROJECT NO: **200445** DRAWING NO: **200445 - 22**

SCALE: **1:2,500 @ A1** DATE: **18.03.2021**

FOR SHEET NO: 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100



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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
-  Planning Application Boundary
 -  Unbound Hardcore Surface



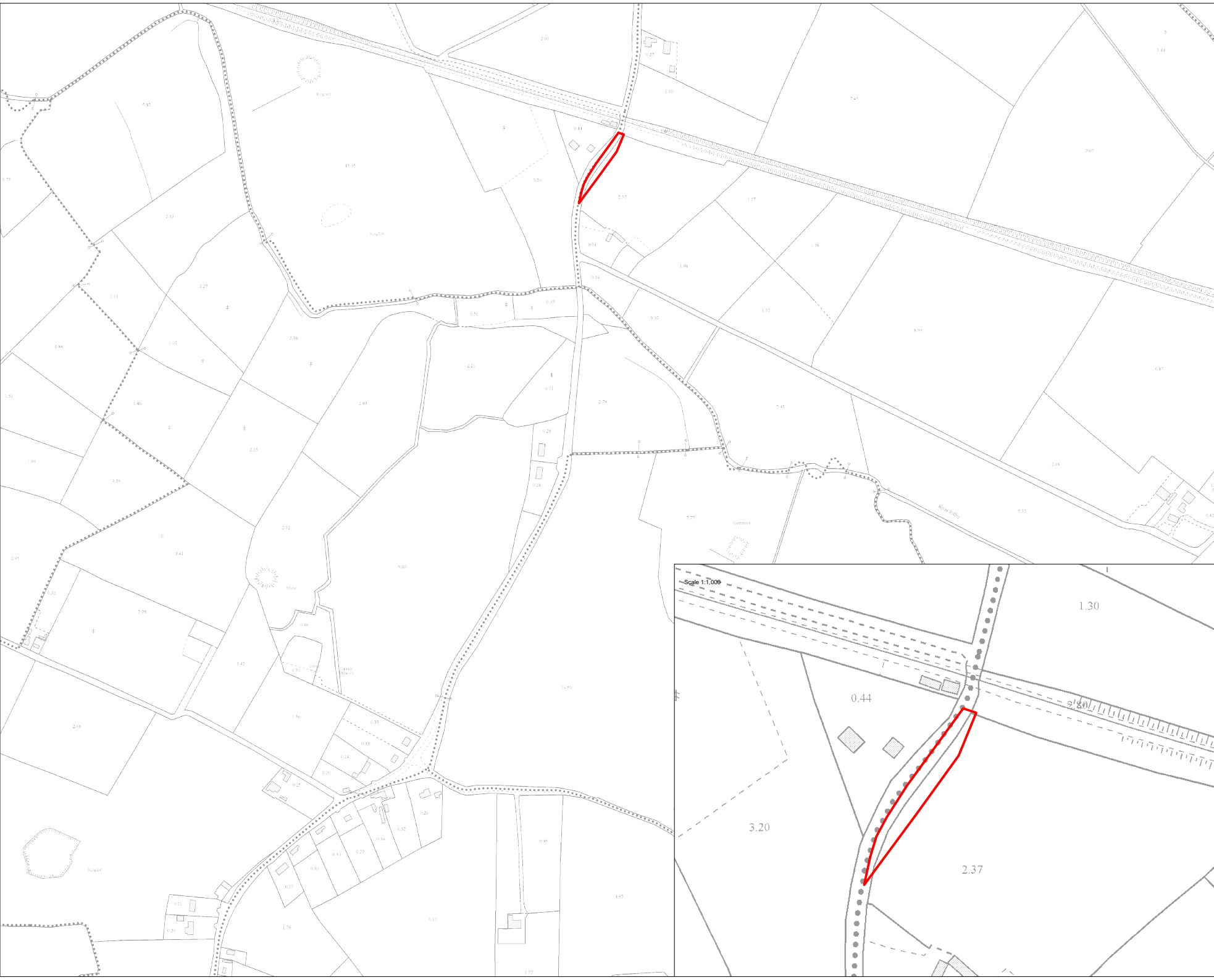
**Site Layout Plan
Sheet 10 of 24**

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O Brien		CHECKED BY: Michael Watson	
PROJECT NO: 200445		DRAWING NO: 200445 - 23	
SCALE: 1:2,500 @ A1		DATE: 18.03.2021	

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

Drawing Legend

— Planning Application Boundary



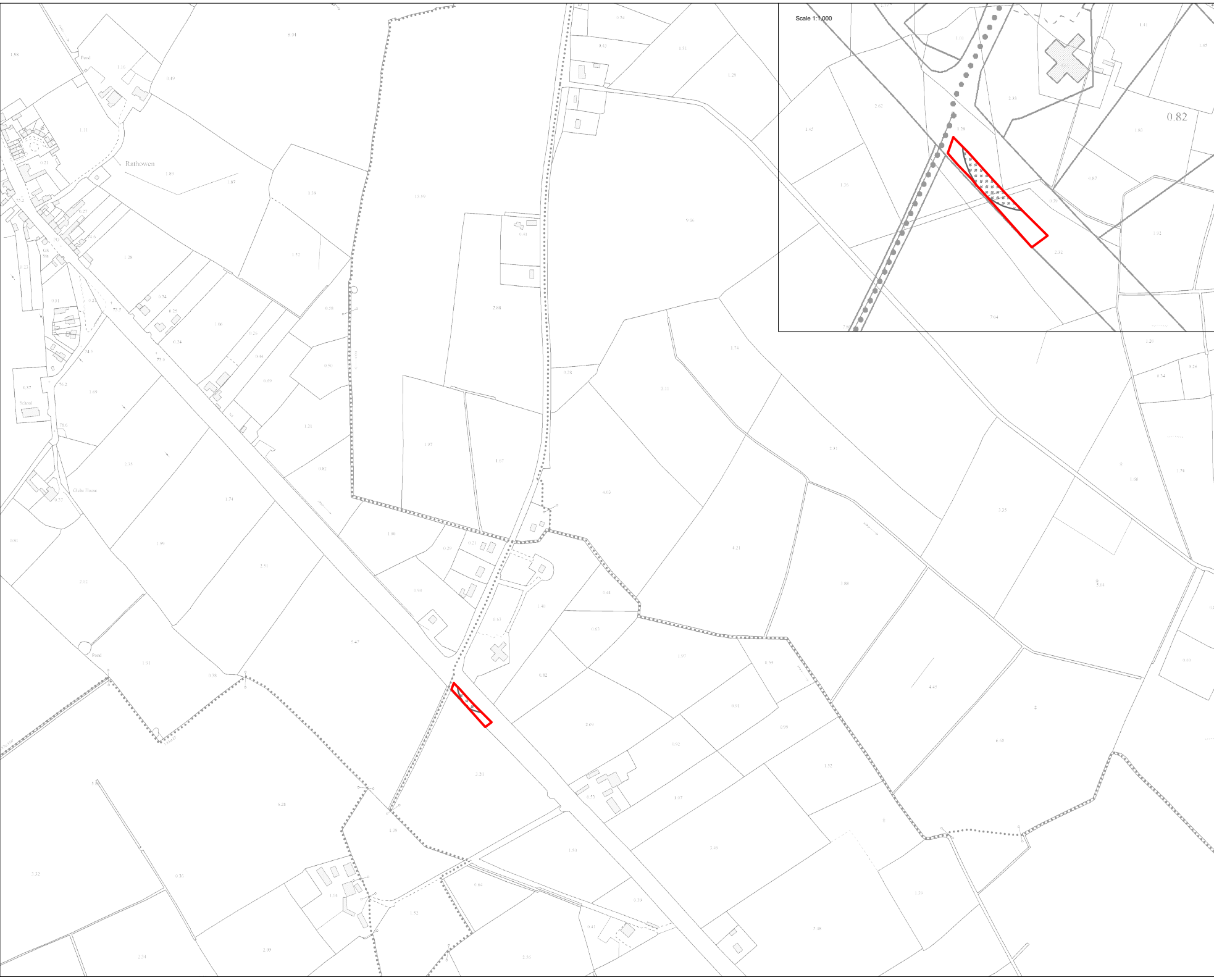
**Site Layout Plan
Sheet 11 of 24**

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O Brien		CHECKED BY: Michael Watson	
PROJECT No: 200445		DRAWING No: 200445 - 24	
SCALE: 1:2,500 @ A1		DATE: 18.03.2021	



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 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

Drawing Legend

-  Planning Application Boundary
-  Unbound Hardcore Surface



DRAWING TITLE

**Site Layout Plan
Sheet 12 of 24**

PROJECT TITLE

Cooile Wind Farm, Co. Westmeath

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Michael Watson**

PROJECT No: **200445** DRAWING No: **200445 - 25**

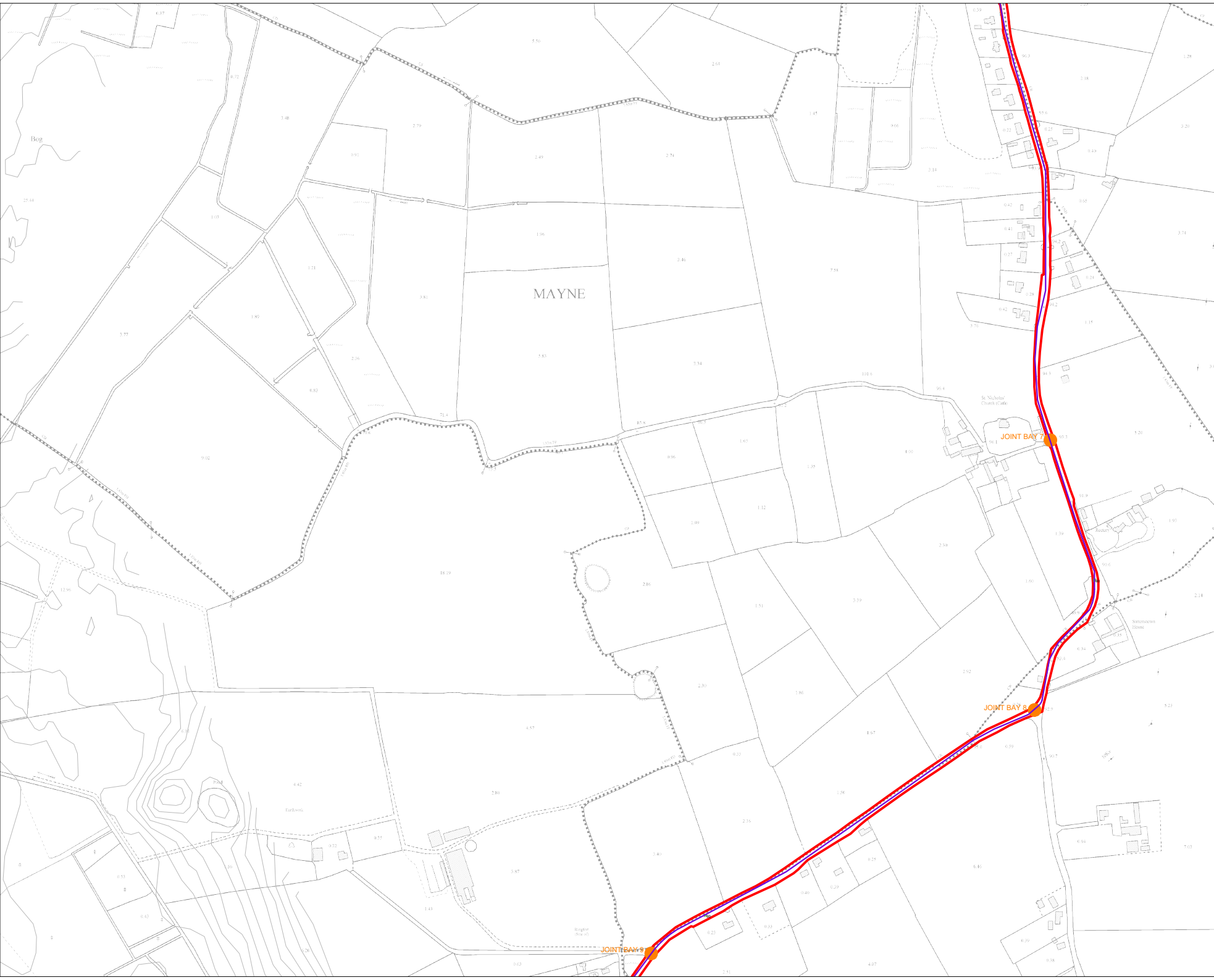
SCALE: **1:2,500 @ A1** DATE: **18.03.2021**

FOR SHEET No: 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100



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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - Spot Height
 - Indicative Joint Bay

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DRAWING TITLE
Site Layout Plan
Sheet 13 of 24

PROJECT TITLE
Coole Wind Farm, Co. Westmeath

DRAWING BY Joseph O'Brien	CHECKED BY Michael Watson
PROJECT NO. 200445	DRAWING NO. 200445 - 26
SCALE 1:2,500 @ A1	DATE 18.03.2021

FOR SHEET NO. 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100

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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - X Spot Height
 - Indicative Joint Bay
 - Watercrossing

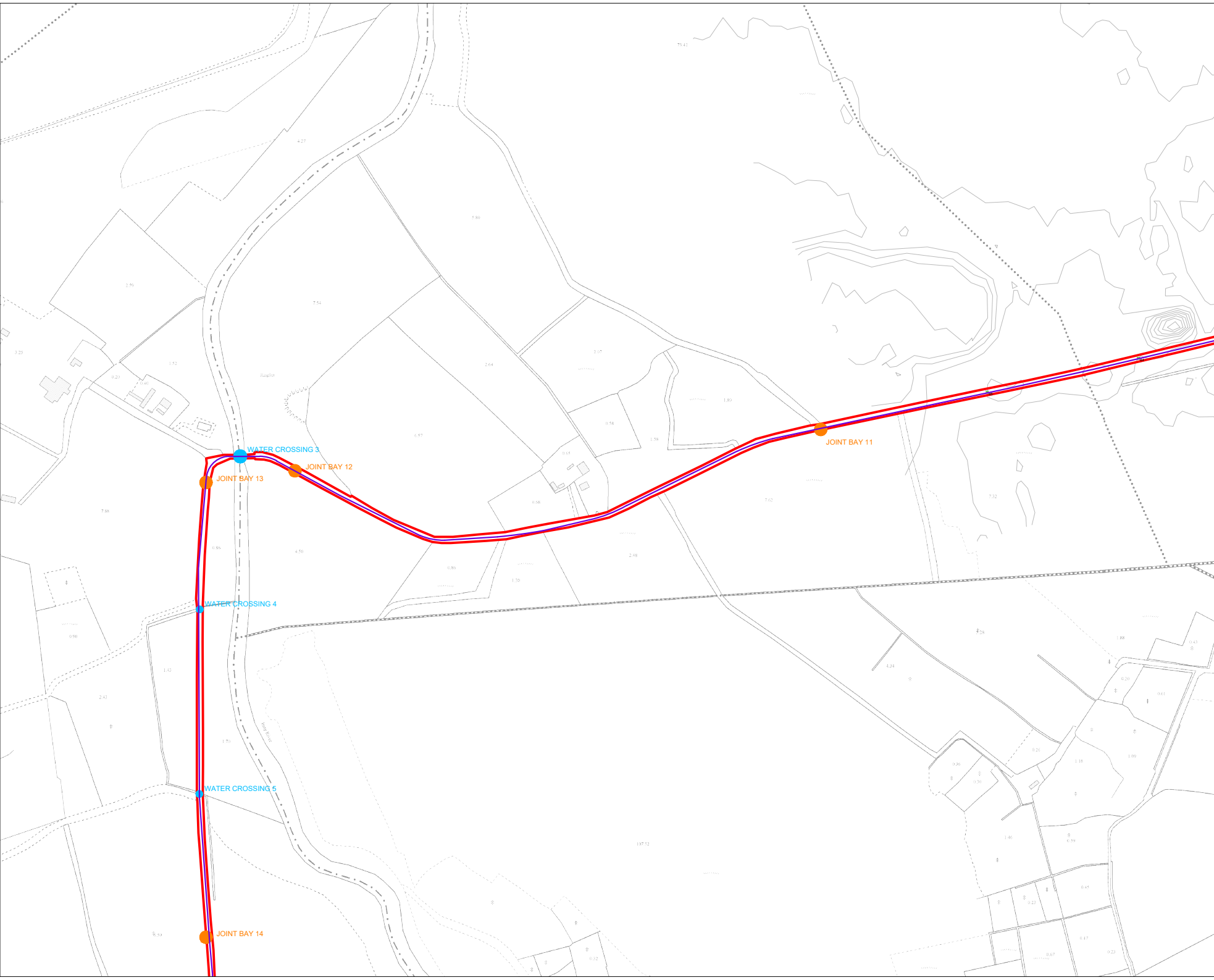


Site Layout Plan
Sheet 14 of 24
 Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 27
SCALE: 1:2,500 @ A1	DATE: 18.03.2021

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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.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - X Spot Height
 - Indicative Joint Bay
 - Watercrossing



Site Layout Plan
Sheet 15 of 24

Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 28
SCALE: 1:2,500 @ A1	DATE: 18.03.2021

FOR SHEET NO: 2004 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100

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 6. Final levels may vary depending on local ground conditions.
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be confirmed by site survey and in agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Indicative Grid Connection Route
- Indicative Joint Bay
- Watercrossing



Site Layout Plan
Sheet 17 of 24

ORCHARDVIEW MICHAEL WATSON

DRAWING BY	Joseph O'Brien
PROJECT NO.	200445
SCALE	1:2,500 @ A1
DATE	18.03.2021

ORCHARDVIEW MICHAEL WATSON
200445 - 30

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+353 (0) 91 755581
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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.
 9. Exact location of cable/joint bay in the road corridor to be confirmed by the contractor in accordance with the specifications and agreement with Westmeath County Council.

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - Indicative Joint Bay
 - Watercrossing



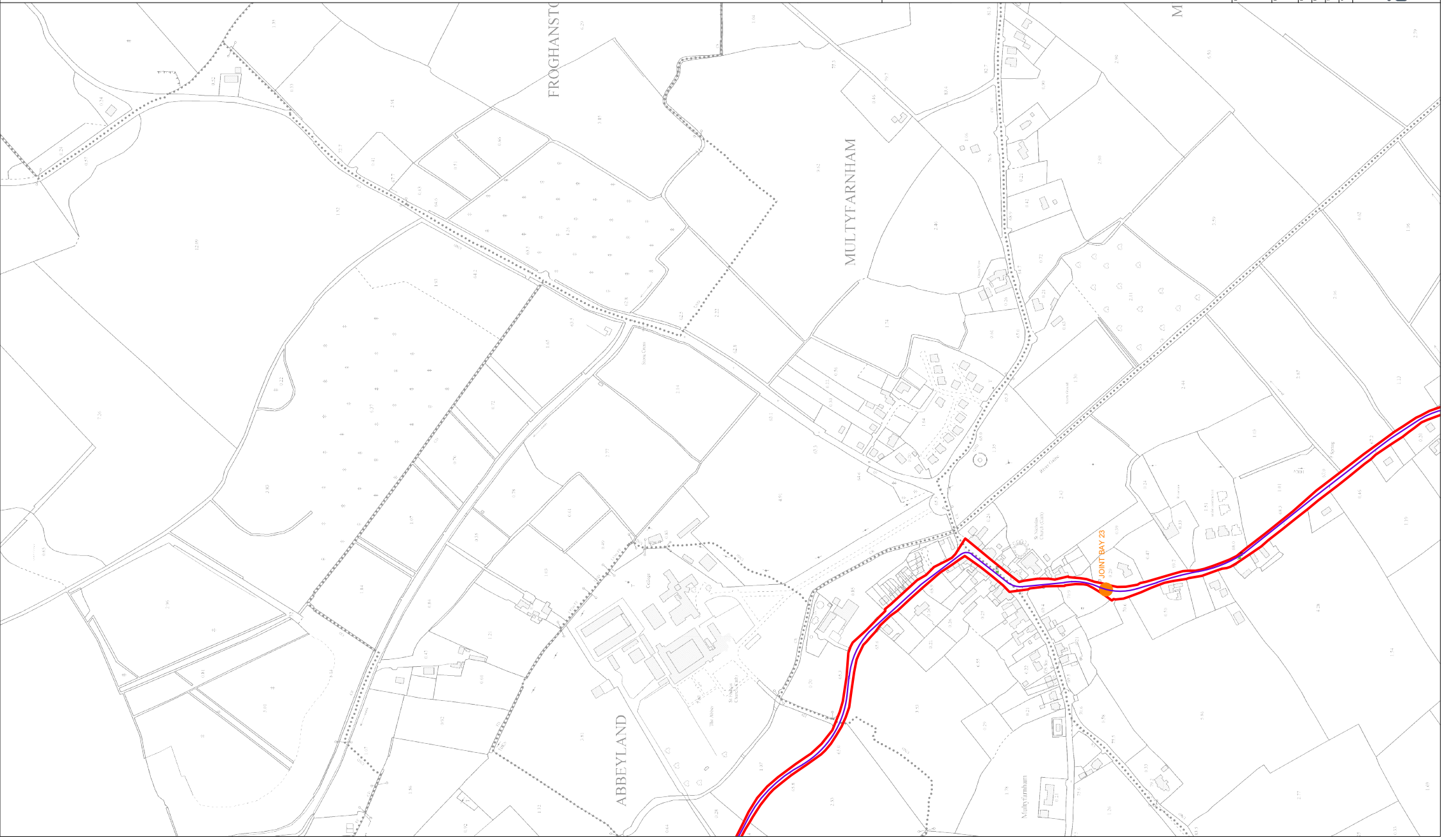
**Site Layout Plan
Sheet 18 of 24**

ORANISHA TITLE
 DRAWING BY: **Joseph O'Brien**
 PROJECT NO: **200445**
 SCALE: **1:2,500 @ A1**
 DATE: **18.03.2021**

ORANISHA TITLE
 CHECKED BY: **Michael Watson**
 PROJECT NO: **200445**
 DATE: **18.03.2021**

ORANISHA TITLE
 PROJECT NO: **200445**
 SCALE: **1:2,500 @ A1**
 DATE: **18.03.2021**

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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.
 9. Exact location of cable/joint bay in the road corridor to be confirmed by site inspections and agreement with Westmeath County Council.

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - Spot Height
 - Indicative Joint Bay



Site Layout Plan
Sheet 19 of 24

OWNERS TITLE: Coole Wind Farm, Co. Westmeath

PROJECT TITLE: Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien

CHECKED BY: Michael Watson

PROJECT NO: 200445

DATE: 18.03.2021

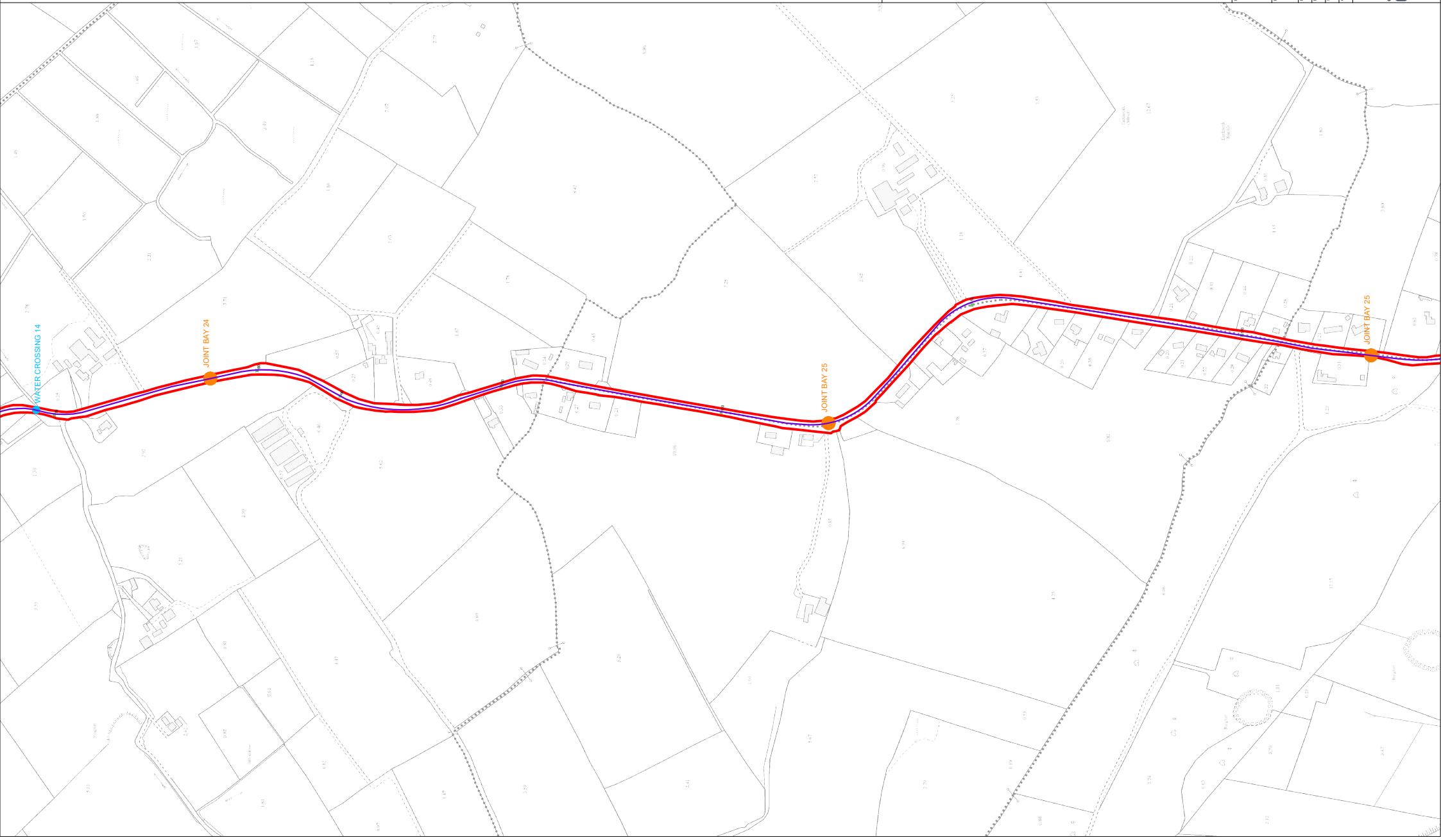
SCALE: 1:2,500 @ A1

PROJECT NO: 200445 - 32

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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.
 9. Exact location of cable/joint bay in the road corridor to be agreed with the local authority and in accordance with the specifications and agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Indicative Grid Connection Route
- X Spot Height
- Indicative Joint Bay
- Watercrossing



**Site Layout Plan
Sheet 20 of 24**

OWNERS TITLE: Coole Wind Farm, Co. Westmeath
 PROJECT TITLE: Coole Wind Farm, Co. Westmeath
 DRAWING NO: Joseph O'Brien
 PROJECT NO: 200445 - 33
 SCALE: 1:2,500 @ A1
 DATE: 18.03.2021

DESIGNED BY: Michael Watson
 DRAWN BY: Michael Watson
 CHECKED BY: Michael Watson

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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.
 9. Exact location of cable/joint/bay in the road corridor to be confirmed by site investigations and agreement with Westmeath County Council.

- Drawing Legend**
- Planning Application Boundary
 - Indicative Grid Connection Route
 - Spot Height
 - Indicative Joint Bay
 - Watercrossing



Site Layout Plan
Sheet 21 of 24

DRAWING TITLE

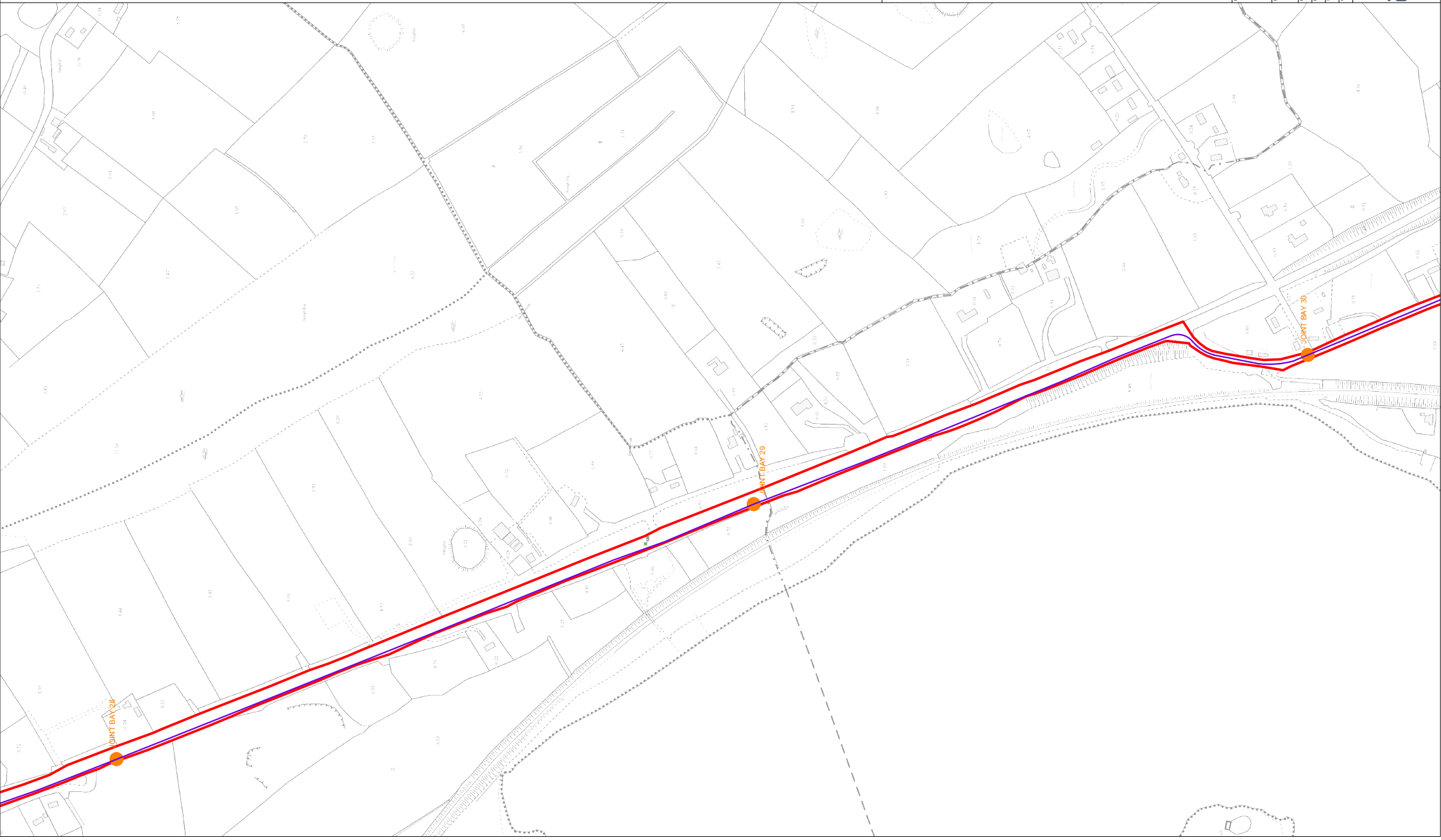
Cooloe Wind Farm, Co. Westmeath

PROJECT TITLE

DRAWING BY Joseph O'Brien CHECKED BY Michael Watson
PROJECT NO. 200445 DATE 18.03.2021
SCALE 1:2,600 @ A1 200445 - 34

CONTRACT NO. AND DATE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT AND THE DATE OF THE ISSUE OF THIS DRAWING.

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 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be confirmed by the contractor in agreement with Westmeath County Council.

Drawing Legend

- Planning Application Boundary
- Indicative Grid Connection Route
- Spot Height
- Indicative Joint Bay

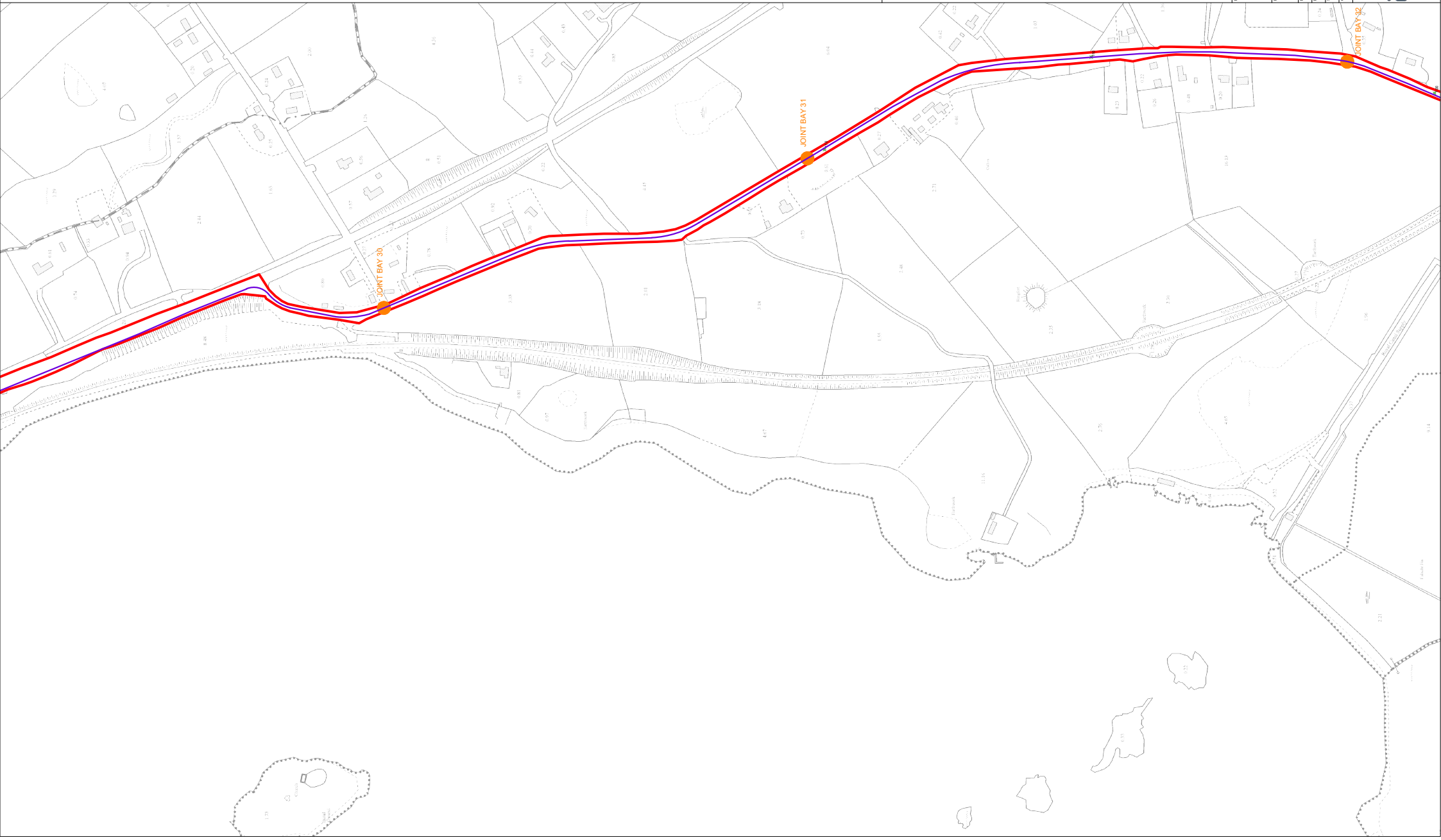


Site Layout Plan
Sheet 22 of 24

DRAWING TITLE	PROJECT TITLE	CLIENT	DATE
Coole Wind Farm, Co. Westmeath	Coole Wind Farm, Co. Westmeath	Joseph O'Brien	18.03.2021
DRAWING NO.	PROJECT NO.	DRAWING NO.	SCALE
200445	200445	200445 - 35	1:2,500 @ A1

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Drawing Legend

- Planning Application Boundary
- Indicative Grid Connection Route
- X Spot Height
- Indicative Joint Bay



**Site Layout Plan
Sheet 23 of 24**

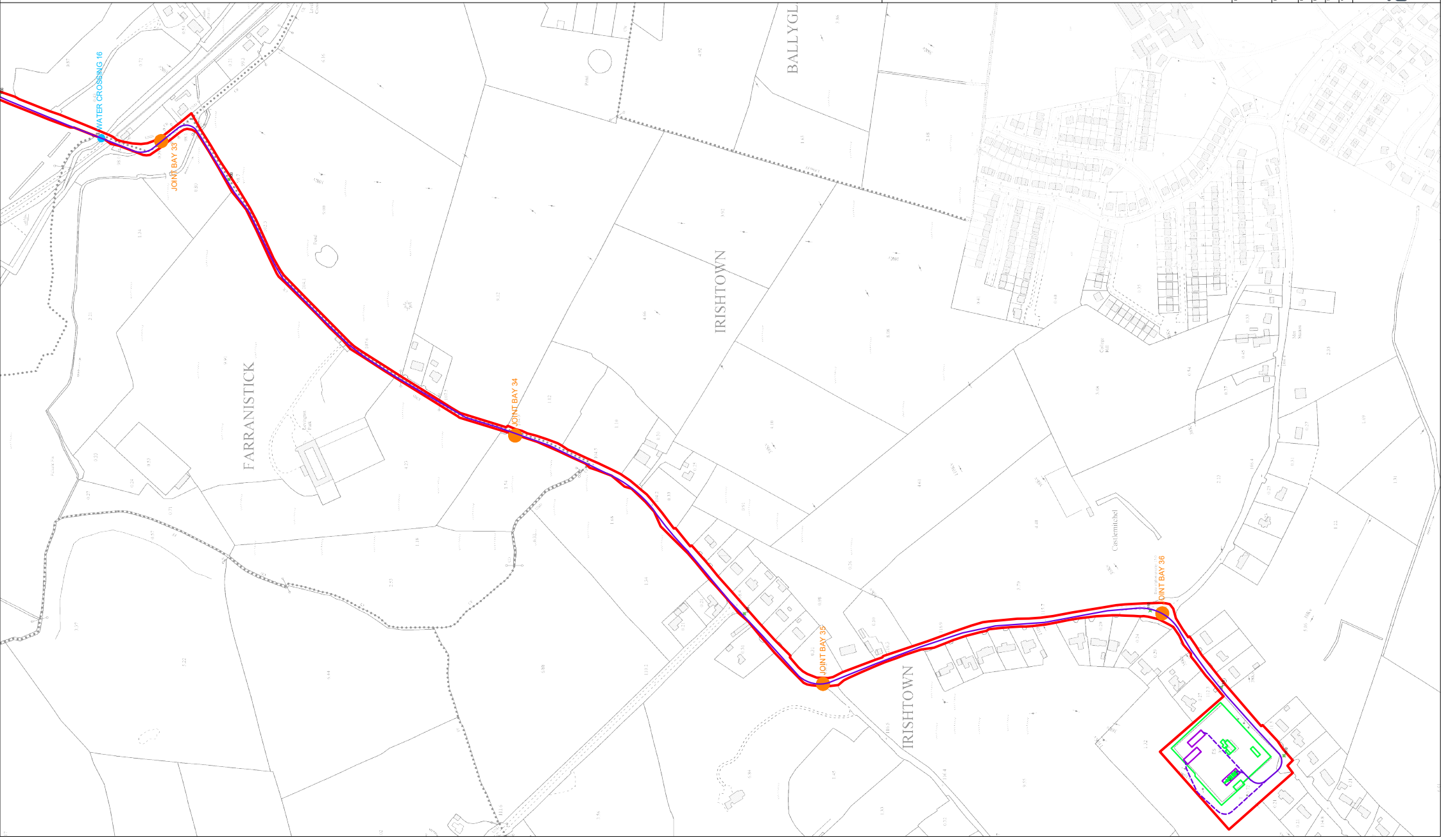
OWNERS: **Cooloe Wind Farm, Co. Westmeath**
 DRAWING BY: **Joseph O'Brien**
 PROJECT NO.: **200445**
 SCALE: **1:2,000 @ A1**
 CHECKED BY: **Michael Watson**
 EXAMINING: **200445 - 35**
 DATE: **18.03.2021**

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JOINT BAY 32

JOINT BAY 31

JOINT BAY 30



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Drawing Legend

- Planning Application Boundary
- Indicative Grid Connection Route
- Existing Mullingar Substation
- Spot Height
- Indicative Joint Bay
- Watercrossing

Site Layout Plan Sheet 24 of 24

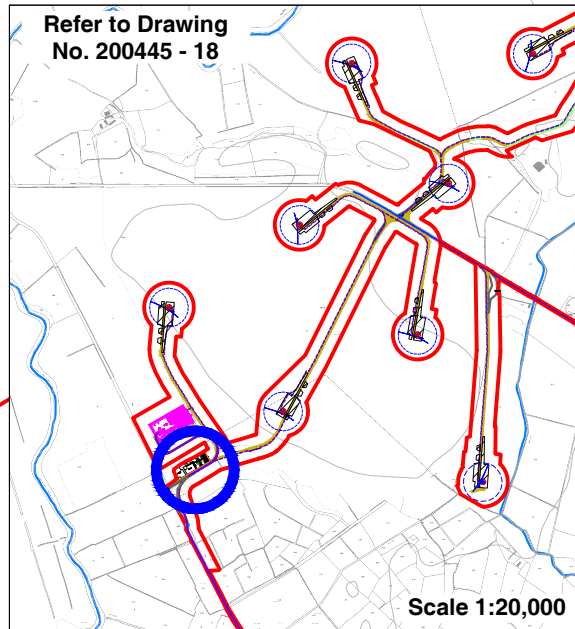
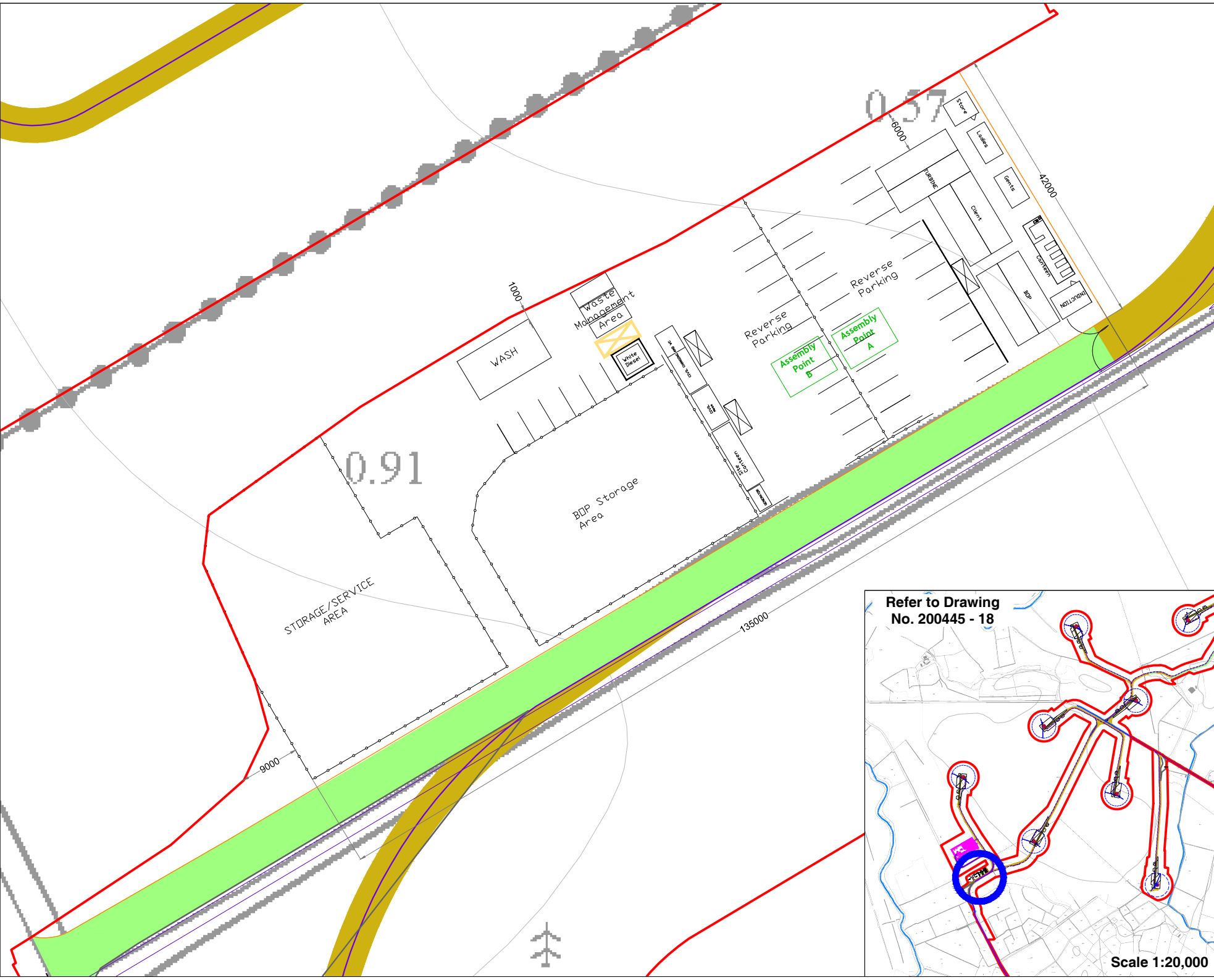
Coole Wind Farm, Co. Westmeath

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 PROJECT TITLE: **Coole Wind Farm, Co. Westmeath**
 DRAWING BY: **Joseph O'Brien**
 CHECKED BY: **Michael Watson**
 PROJECT NO.: **200445**
 DRAWING NO.: **200445 - 37**
 SCALE: **1:2,500 @ A1**
 DATE: **18.03.2021**

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 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

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Drawing Legend

- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Proposed Road
- - - Indicative Internal Electrical Cabling
- Temporary Construction Compound
- Indicative Grid Connection Route

Temporary Construction Compound
 PROJECT TITLE: Coole Wind Farm, Co. Westmeath

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Michael Watson**
 PROJECT NO: **200445** DRAWING NO: **200445 - 38**
 SCALE: **1:500 @ A3** DATE: **18.03.2021**

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Scale 1:20,000

Drawing Notes

1. Layout and arrangements of substation buildings and electrical equipment is shown indicatively and for illustration purposes only as final specifications of buildings and electrical equipment is to be dictated by Eirgrid/ESB networks requirements.



Drawing Legend

- Planning Application Boundary
- Proposed Road
- Indicative Internal Electrical Cabling
- Indicative Grid Connection Route



Substation Layout

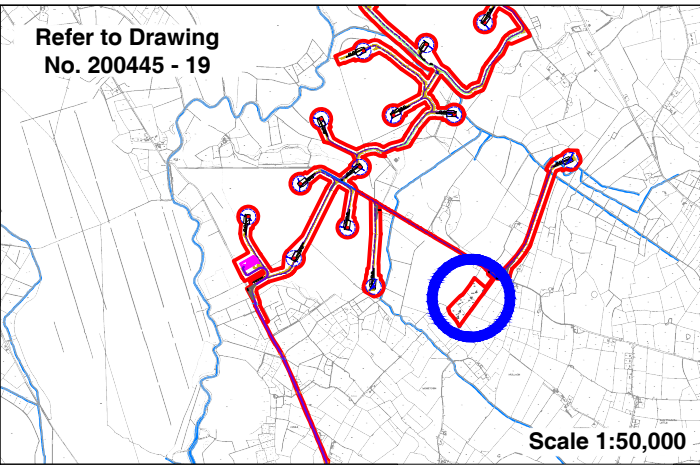
Coole Wind Farm, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445-39
SCALE: 1:500 @ A3	DATE: 18.03.2021

OS GRID REF: 2204 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904 2905 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916 2917 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 2930 2931 2932 2933 2934 2935 2936 2937 2938 2939 2940 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2989 2990 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000

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Refer to Drawing
No. 200445 - 19

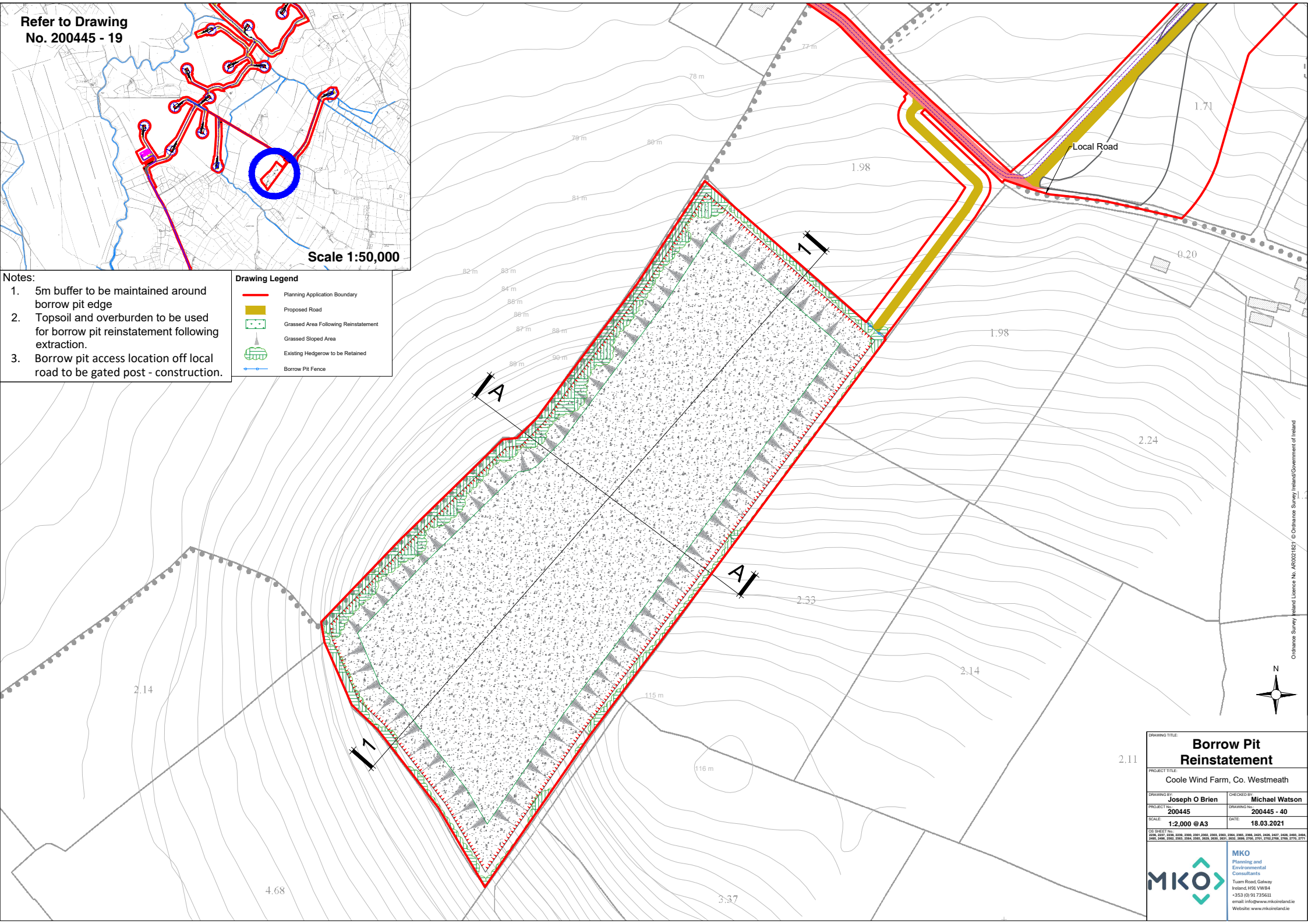


Scale 1:50,000

- Notes:
1. 5m buffer to be maintained around borrow pit edge
 2. Topsoil and overburden to be used for borrow pit reinstatement following extraction.
 3. Borrow pit access location off local road to be gated post - construction.

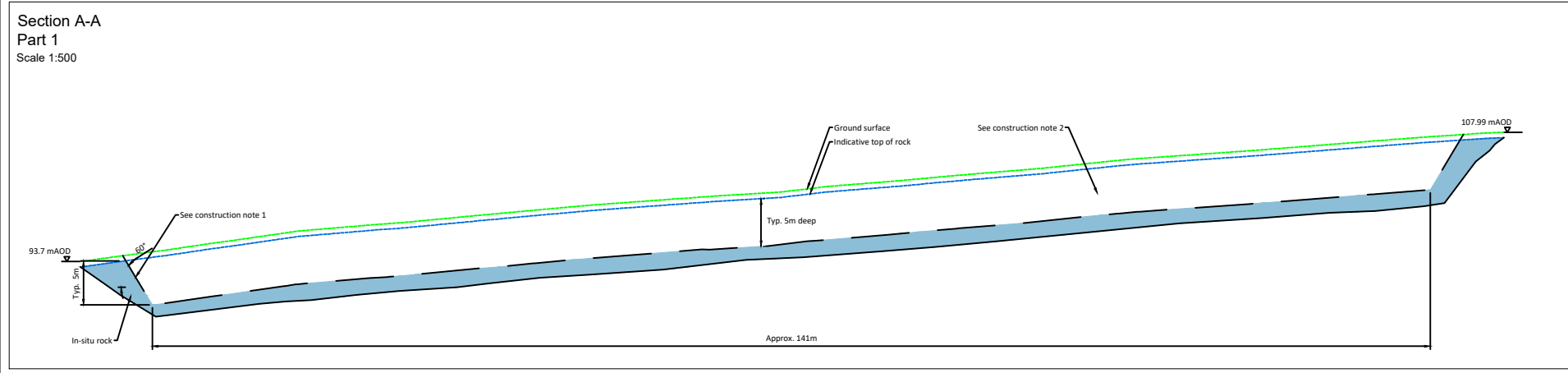
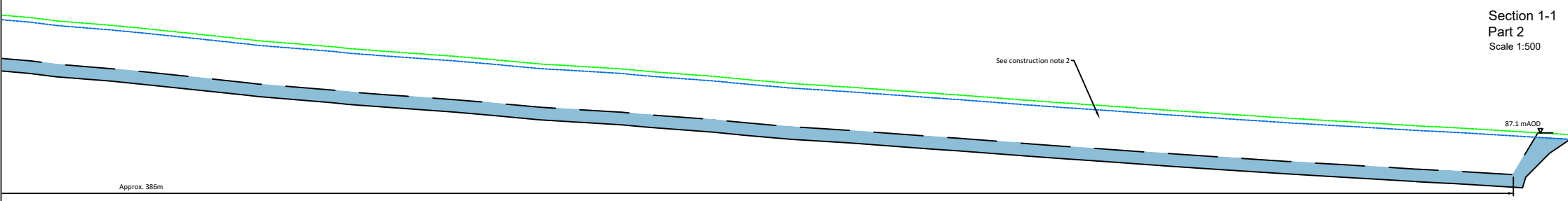
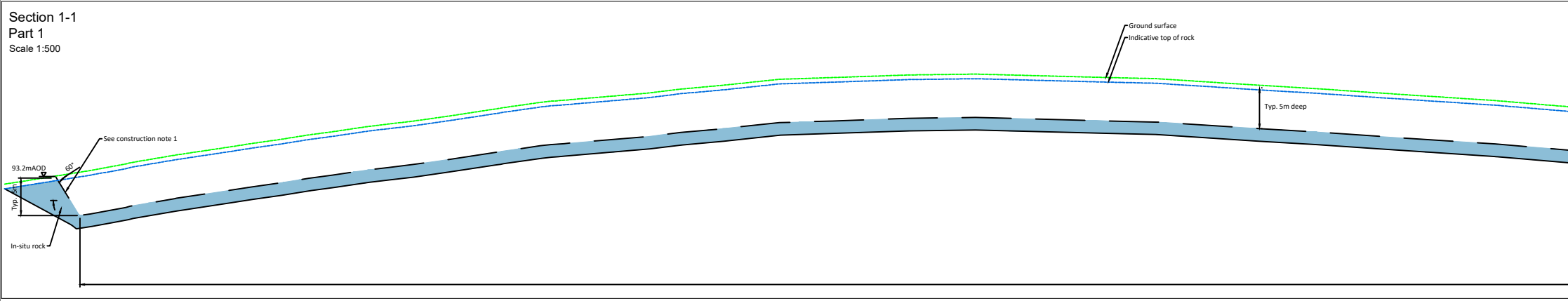
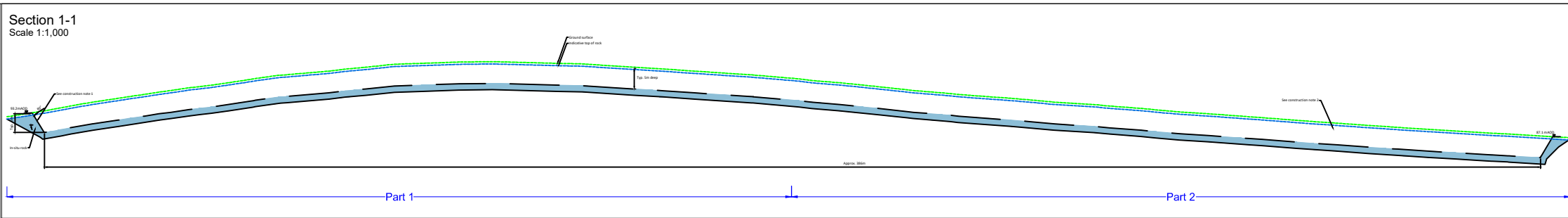
Drawing Legend

-  Planning Application Boundary
-  Proposed Road
-  Grassed Area Following Reinstatement
-  Grassed Sloped Area
-  Existing Hedgerow to be Retained
-  Borrow Pit Fence

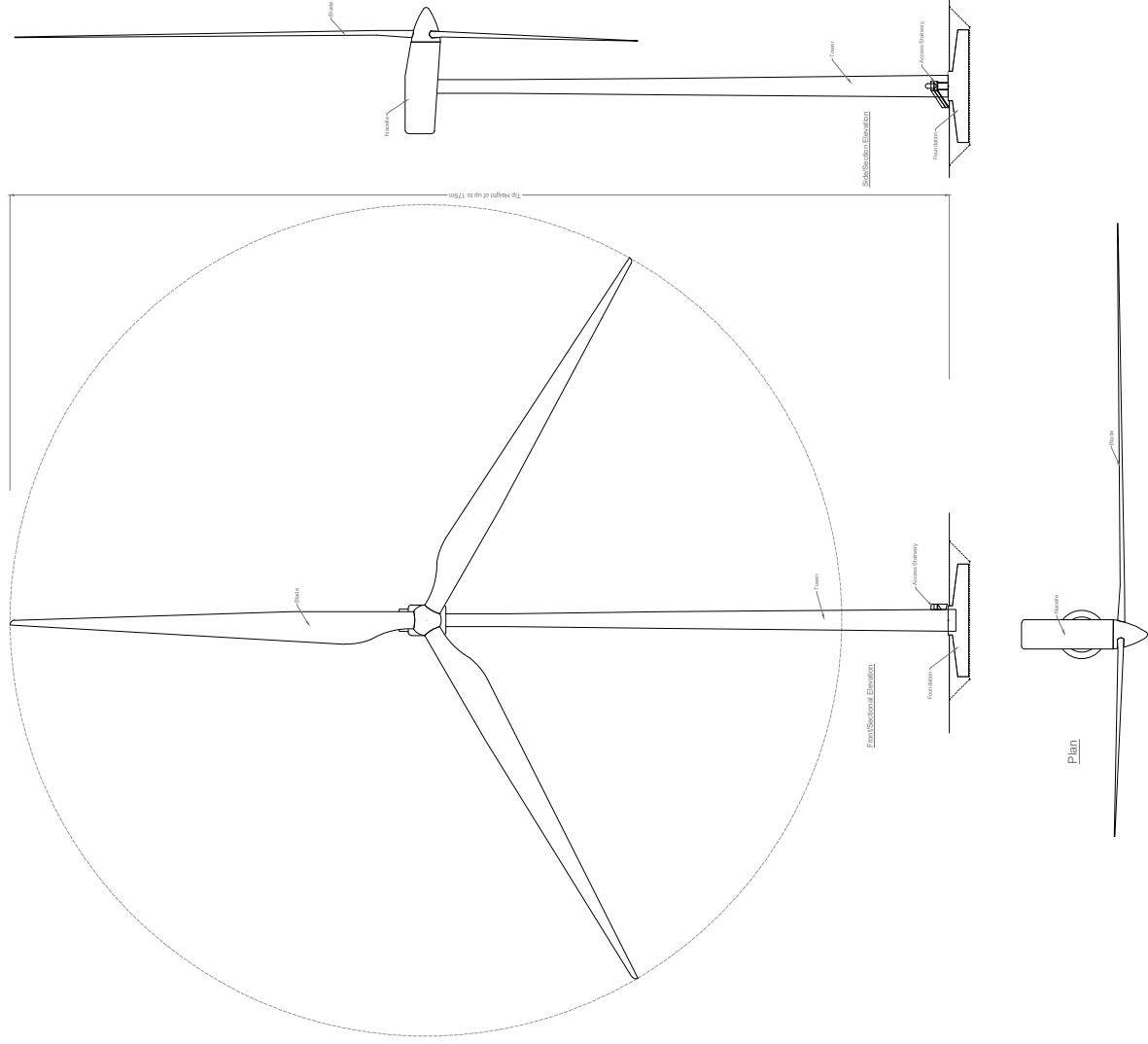
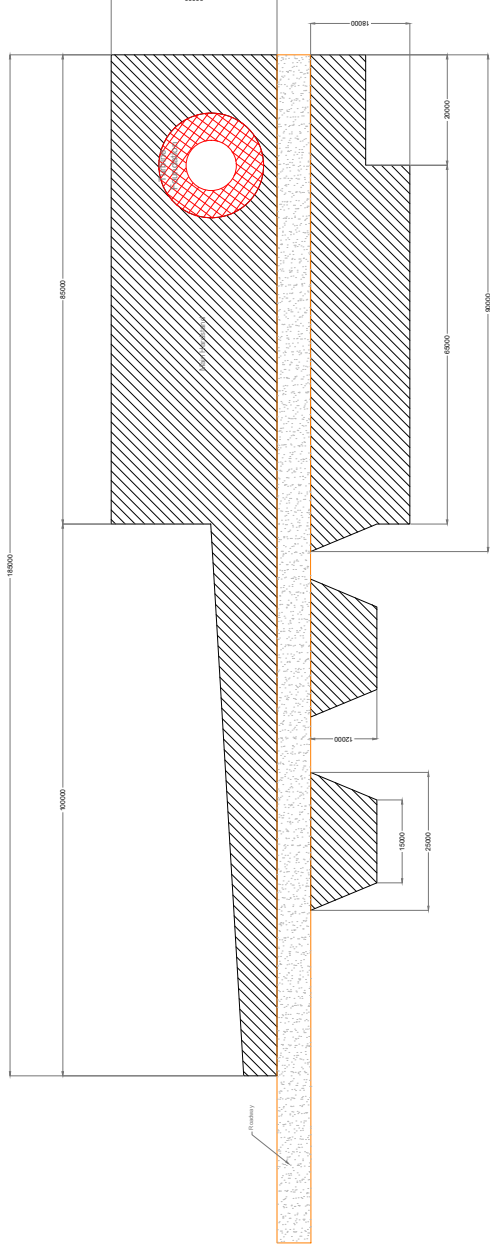


DRAWING TITLE		Borrow Pit Reinstatement	
PROJECT TITLE		Coole Wind Farm, Co. Westmeath	
DRAWING BY	CHECKED BY		
Joseph O'Brien	Michael Watson		
PROJECT NO.	DRAWING NO.		
200445	200445 - 40		
SCALE:	DATE:		
1:2,000 @ A3	18.03.2021		
			
<p>MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VV84 +353 (0)91 725641 email: info@www.mkofireland.ie Website: www.mkofireland.ie</p>			

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DRAWING TITLE: Borrow Pit Sections	
PROJECT TITLE: Coole Wind Farm, Co. Westmeath	
DRAWING BY: POR	CHECKED BY: IH
PROJECT No.: 200445	DRAWING No.: 200445 - 41
SCALE: As Shown @ A3	DATE: 18.03.2021
DS SHEET No.:	



Drawing Notes

1. Proposed wind turbines to have a tip height of up to 175m.
2. Exact make and model of the turbine to be dictated by a competitive tender process.
3. Installed wind turbine not to exceed maximum size envelope set out above in any blade length and hub-height configuration.

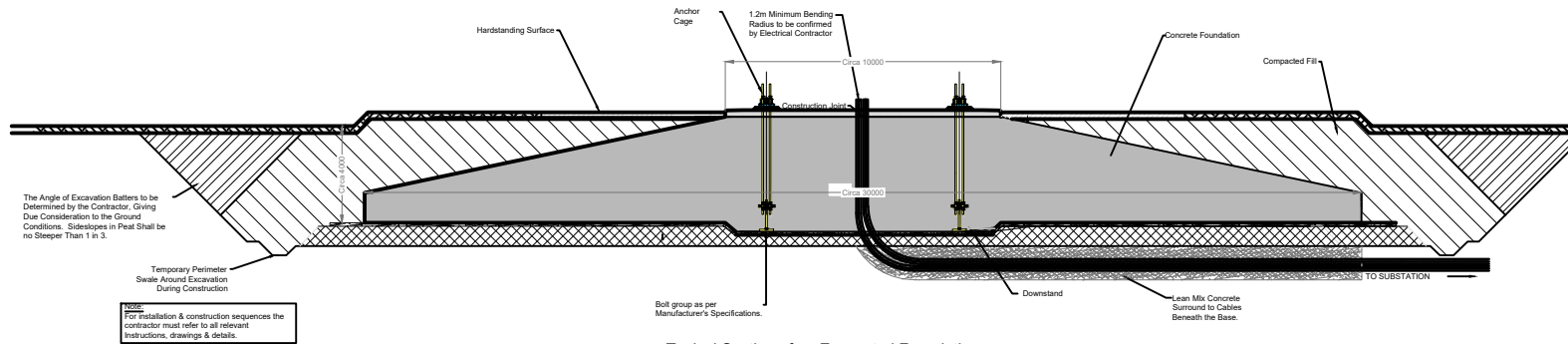
FORWARD TITLE
**Typical Wind Turbine
 Hardstanding & Elevations**
 PROJECT TITLE

OWNER: **Joseph O'Brien**
 PROJECT No: **200445**
 SCALE: **1:500 @A1**

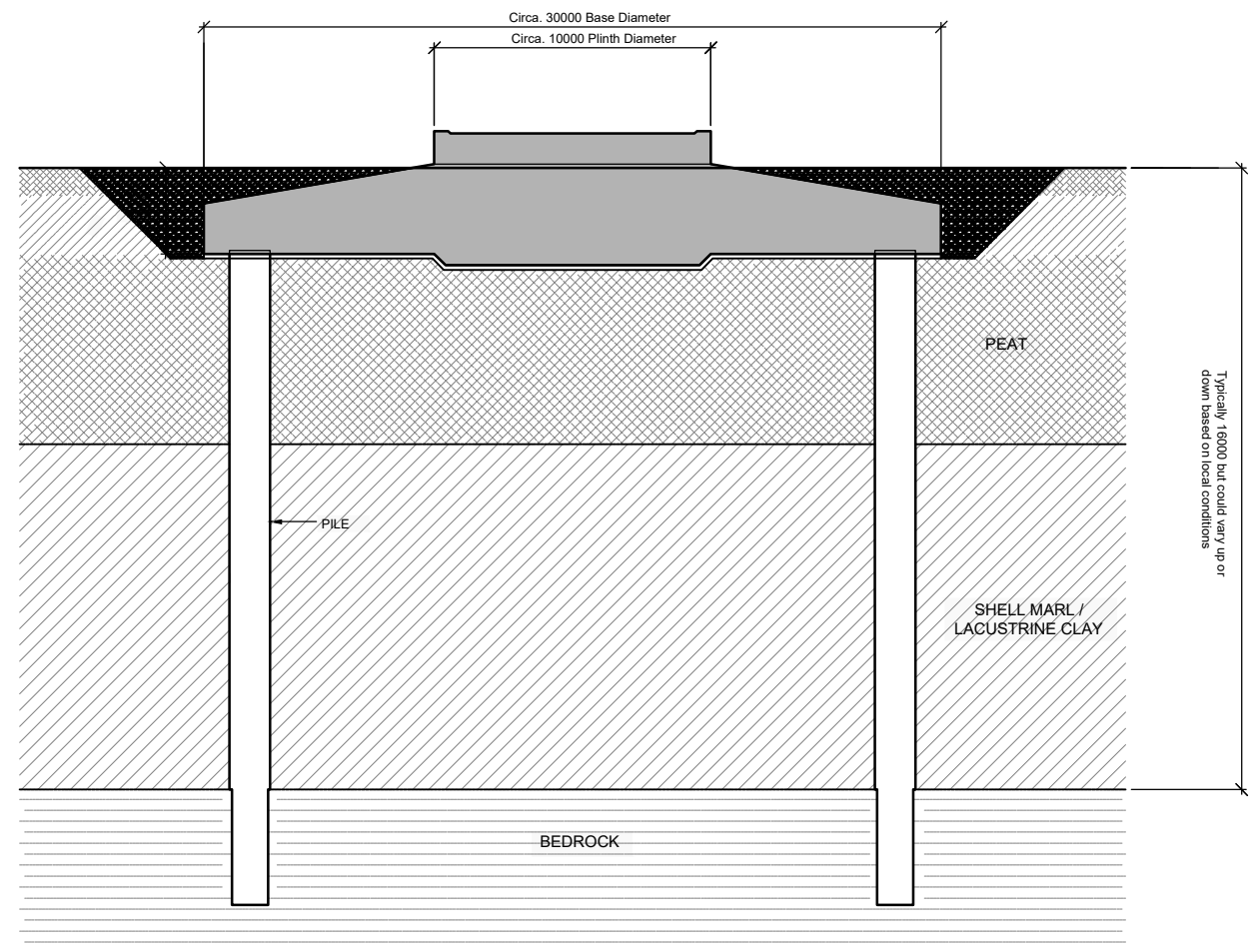
DESIGNED BY: **Michael Watson**
 DRAWN BY: **200445 - 42**
 DATE: **16.03.2021**

PROJECT TITLE: **Coole Wind Farm, Co. Westmeath**

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 www.mko.ie
 Website: www.mko.ie/418



Typical Section of an Excavated Foundation
Scale 1:200



Typical Section of a Piled a Foundation
Scale 1:200

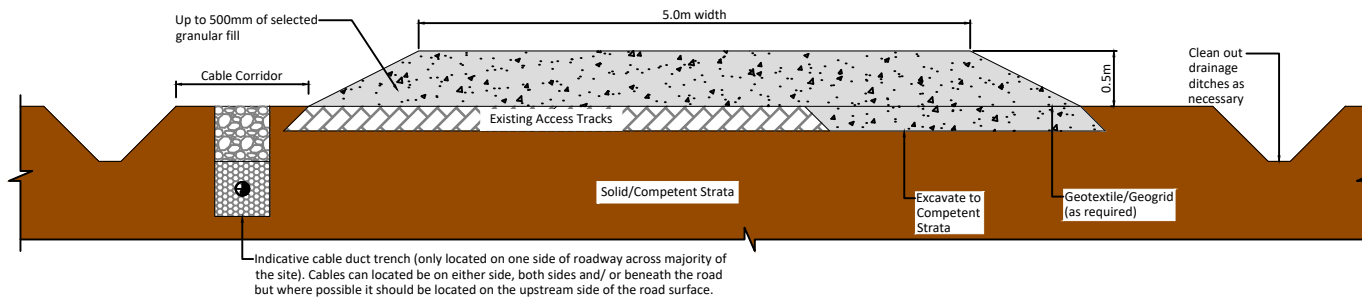
Note
Details/dimensions are provided for indicative purposes and will be subject to detailed design by the appointed contractor

DRAWING TITLE		Indicative Turbine Foundation Standard Detail	
PROJECT TITLE		Coole Wind Farm, Co. Westmeath	
DRAWING BY	Joseph O'Brien	CHECKED BY	Michael Watson
PROJECT No.	200445	DRAWING No.	200445 - 43
SCALE:	1:200@ A3	DATE:	18.03.2021

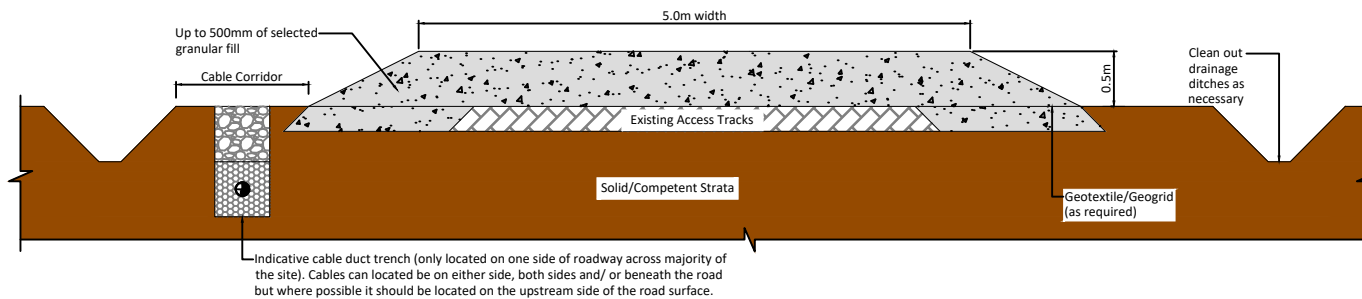


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Ireland, H91 VV84
+353 (0) 91 735611
email: info@www.mkofireland.ie
Website: www.mkofireland.ie

surface but where possible it should be located on the upstream side of the road surface.



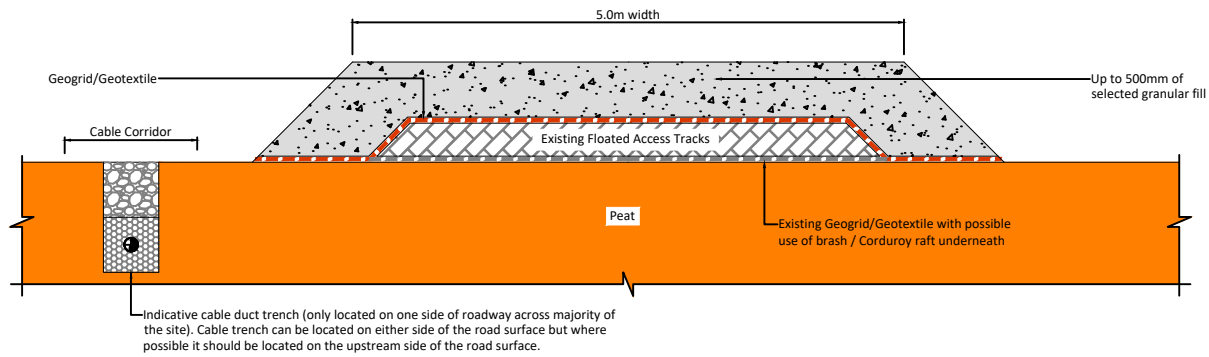
Upgrade of Existing Track on Sidelong Ground



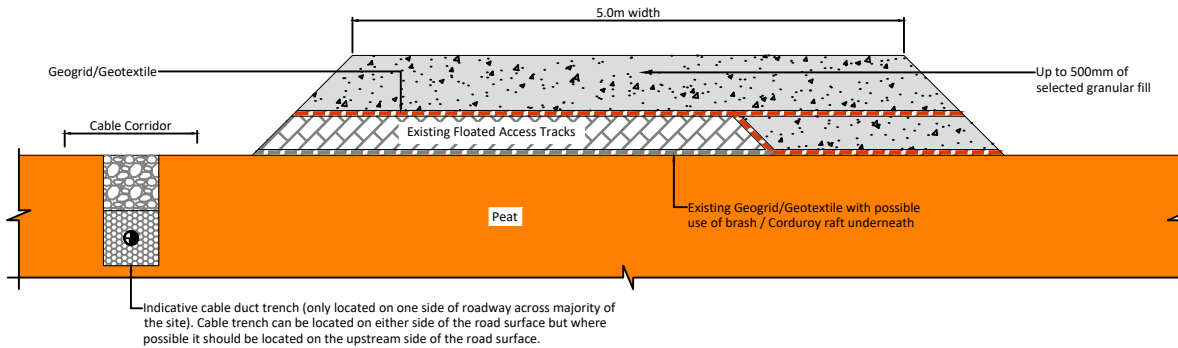
Upgrade of Existing Track on Flat Ground

DRAWING TITLE:	
Type A Upgrade of Existing Excavated Access Tracks	
PROJECT TITLE:	
Coole Wind Farm, Co. Westmeath	
DRAWING BY:	CHECKED BY:
POR	IH
PROJECT No: 200445	DRAWING No: 200445 - 44
SCALE: 1:50 @ A3	DATE: 18.03.2021

Upgrade of Existing Track on Flat Ground

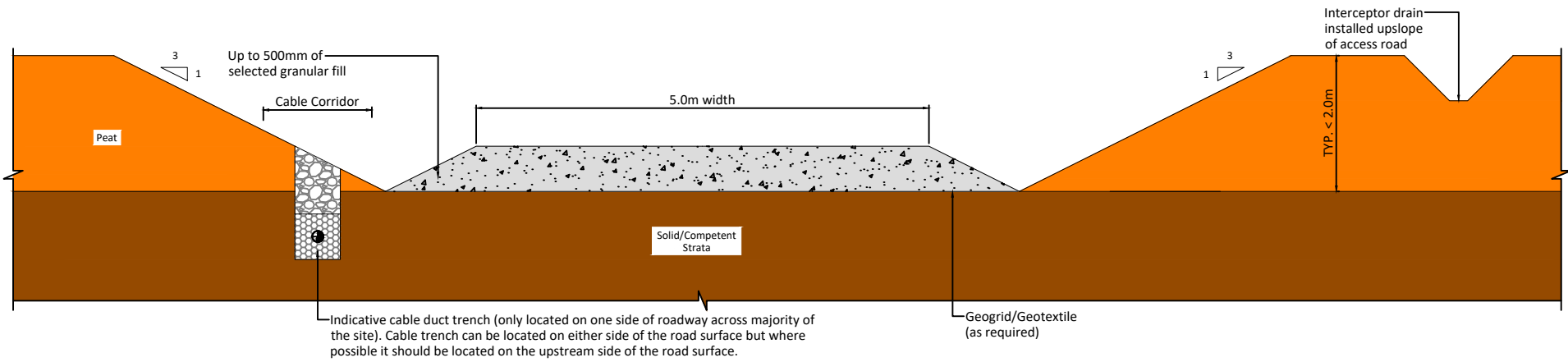


Upgrade of Existing Track on Flat Ground

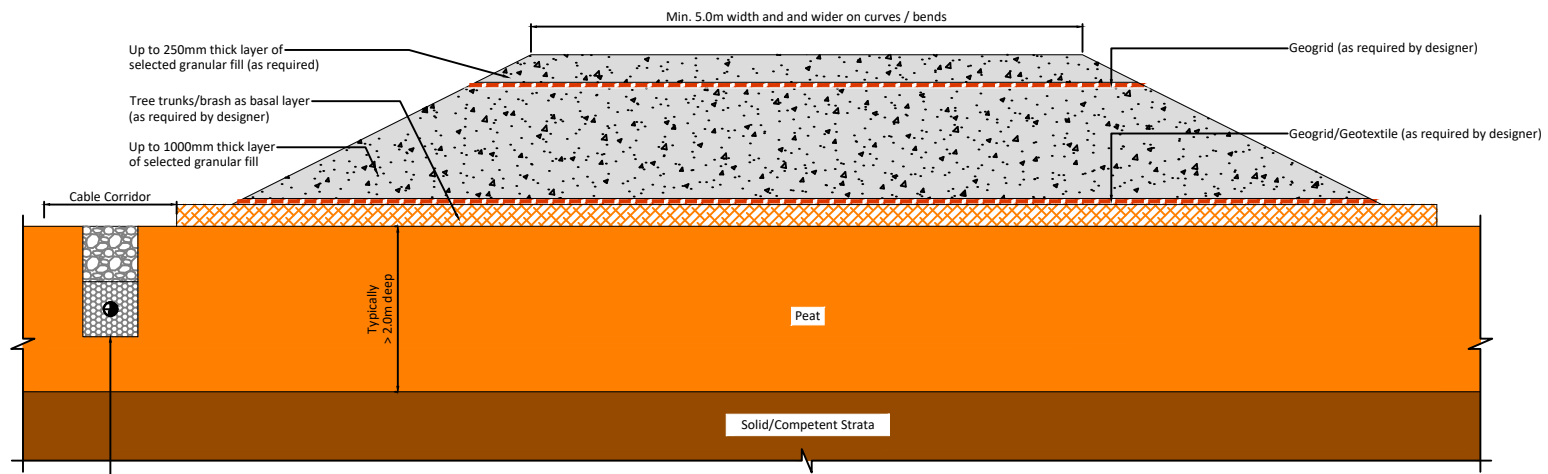


Upgrade of Existing Track on Sidelong Ground

DRAWING TITLE:	
Type B Upgrade of Existing Floated Access Tracks	
PROJECT TITLE:	
Coole Wind Farm, Co. Westmeath	
DRAWING BY:	CHECKED BY:
POR	IH
PROJECT No.:	DRAWING No.:
200445	200445 - 45
SCALE:	DATE:
1:50 @ A3	18.03.2021



DRAWING TITLE:	
Type C New Excavate and Replace Access Road	
PROJECT TITLE:	
Coole Wind Farm, Co. Westmeath	
DRAWING BY:	CHECKED BY:
POR	IH
PROJECT No.:	DRAWING No.:
200445	200445 - 46
SCALE:	DATE:
1:50 @ A3	18.03.2021
OS SHEET No.:	

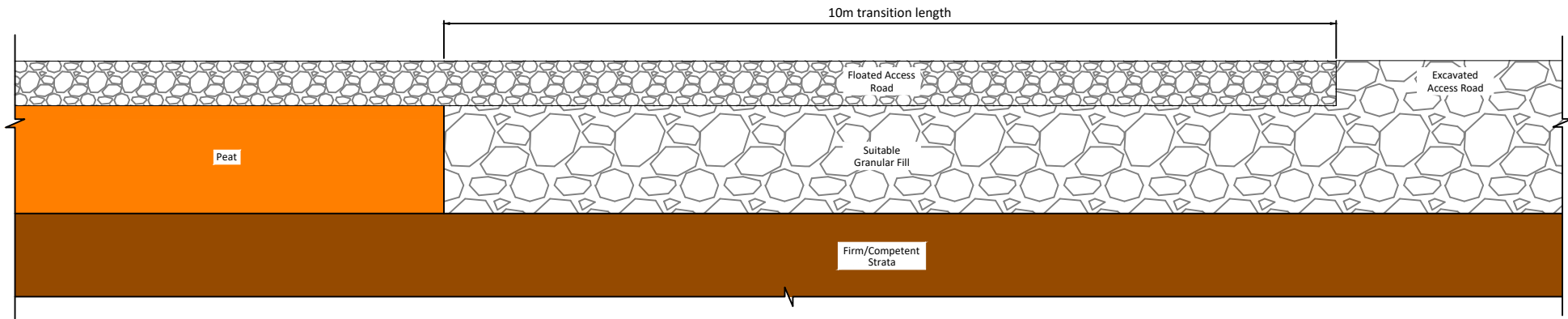


Indicative cable duct trench (only located on one side of roadway across majority of the site). Cable trench can be located on either side of the road surface but where possible it should be located on the upstream side of the road surface.

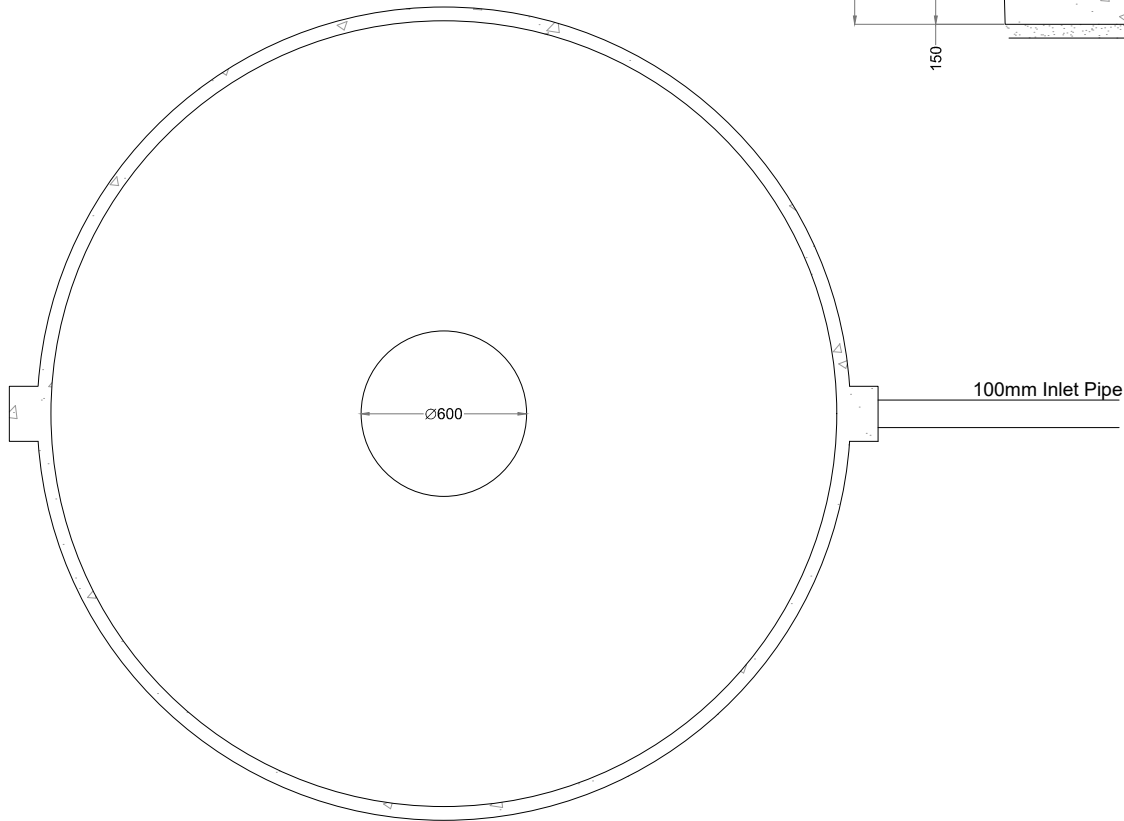
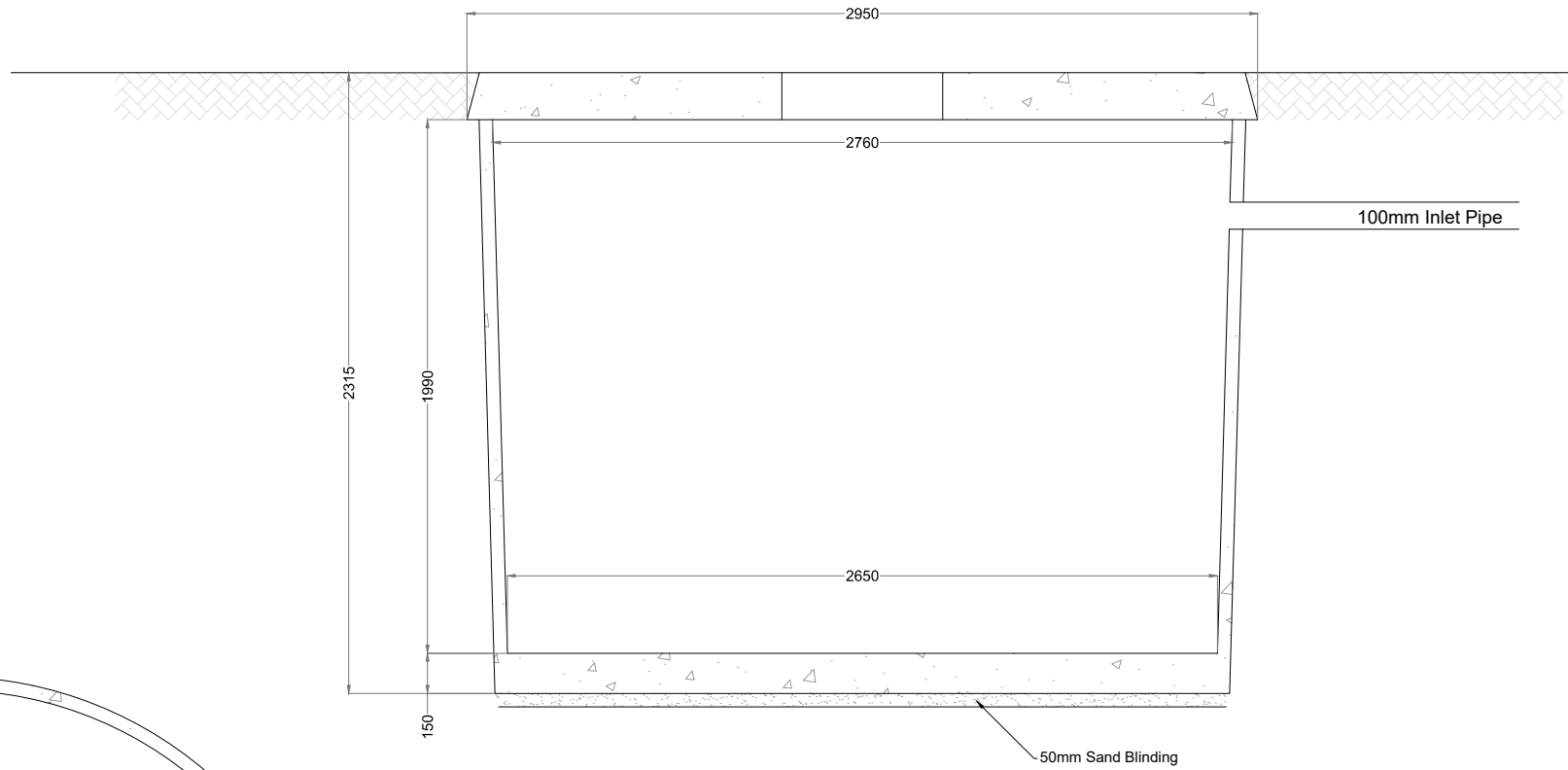
DRAWING TITLE:	
Type D New Floated Access Road	
PROJECT TITLE:	
Coole Wind Farm, Co. Westmeath	
DRAWING BY:	CHECKED BY:
POR	IH
PROJECT No:	DRAWING No:
200445	200445 - 47
SCALE:	DATE:
1:50 @ A3	18.03.2021
OS SHEET No:	


Notes:

- 1) Floated access road detail may comprise 500 to 750mm stone fill, layer of geotextile & 1 to 2 layers of geogrid.
- 2) Excavated access road detail may comprise up to 500mm stone & layer of geotextile (depending on ground conditions encountered).



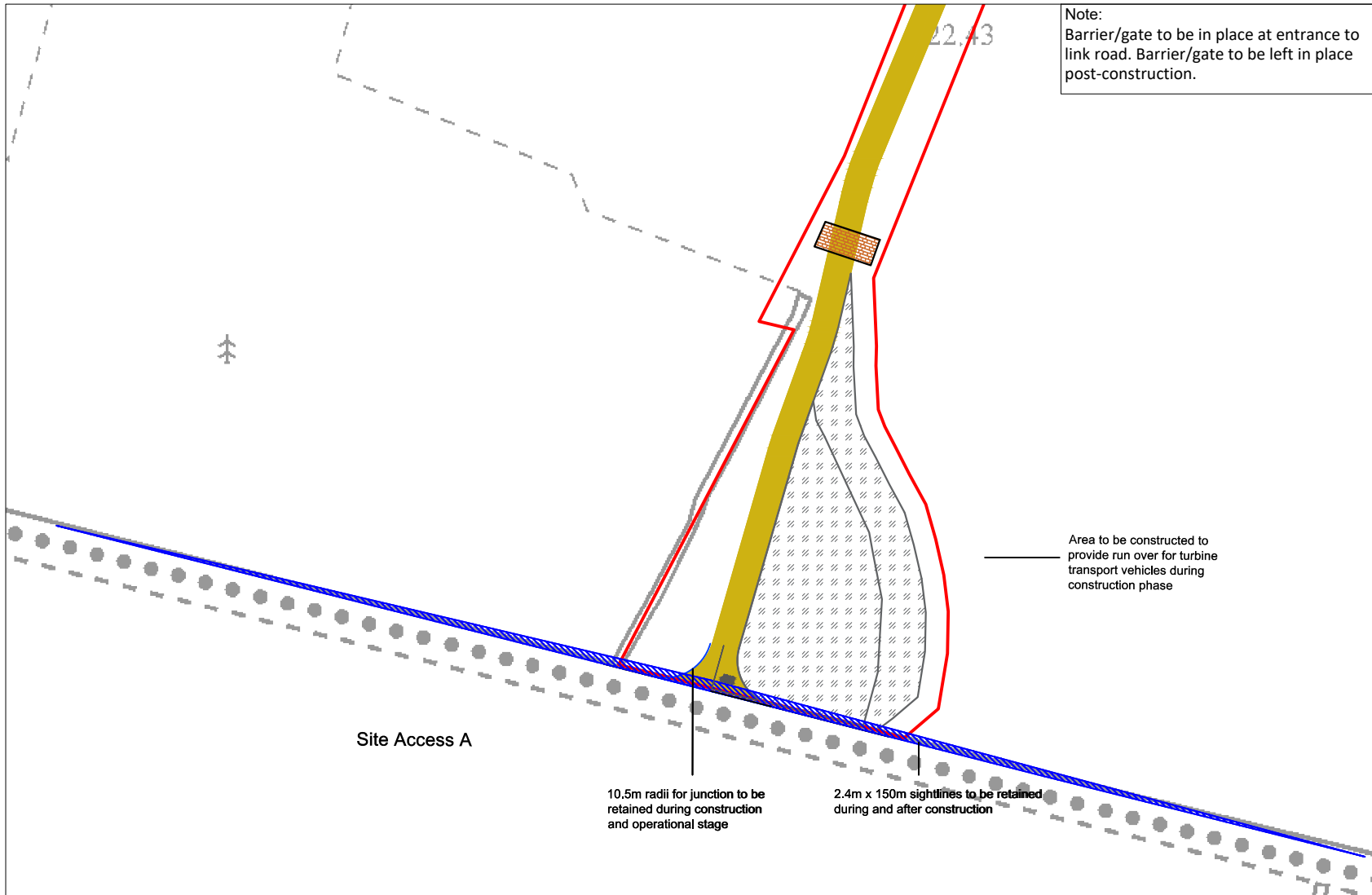
DRAWING TITLE: Transition Detail for Floated and Excavated Access Road	
PROJECT TITLE: Coole Wind Farm, Co. Westmeath	
DRAWING BY: POR	CHECKED BY: IH
PROJECT No.: 200445	DRAWING No.: 200445 - 48
SCALE: 1:50 @ A3	DATE: 18.03.2021
OS SHEET No.:	



DRAWING TITLE	
Wastewater Holding Tank Typical Details	
PROJECT TITLE	
Coole Wind Farm, Co. Westmeath	
DRAWING BY	CHECKED BY
Joseph O'Brien	Michael Watson
PROJECT No.	DRAWING No.
200445	200445 - 49
SCALE	DATE
1:20 @ A3	18.03.2021
	
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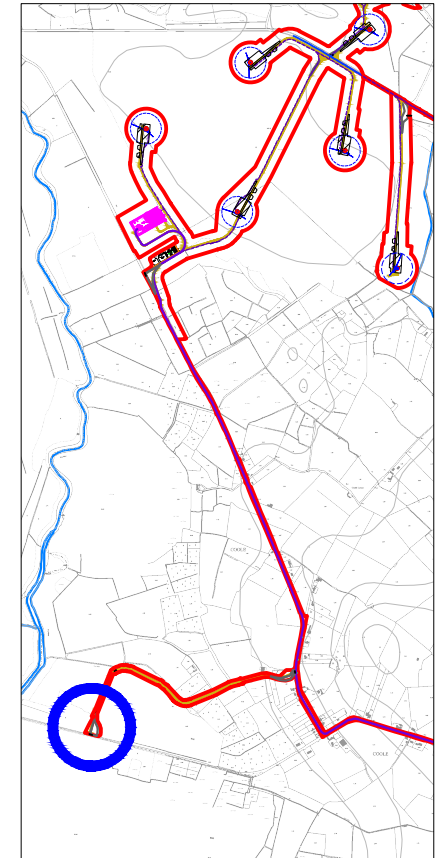
Drawing Legend

- Proposed Road
- Unbound Hardcore Surface
- Crossing Point for Landowners
- Sight Line



Note:
Barrier/gate to be in place at entrance to link road. Barrier/gate to be left in place post-construction.




1:25,000 Location on Context Map



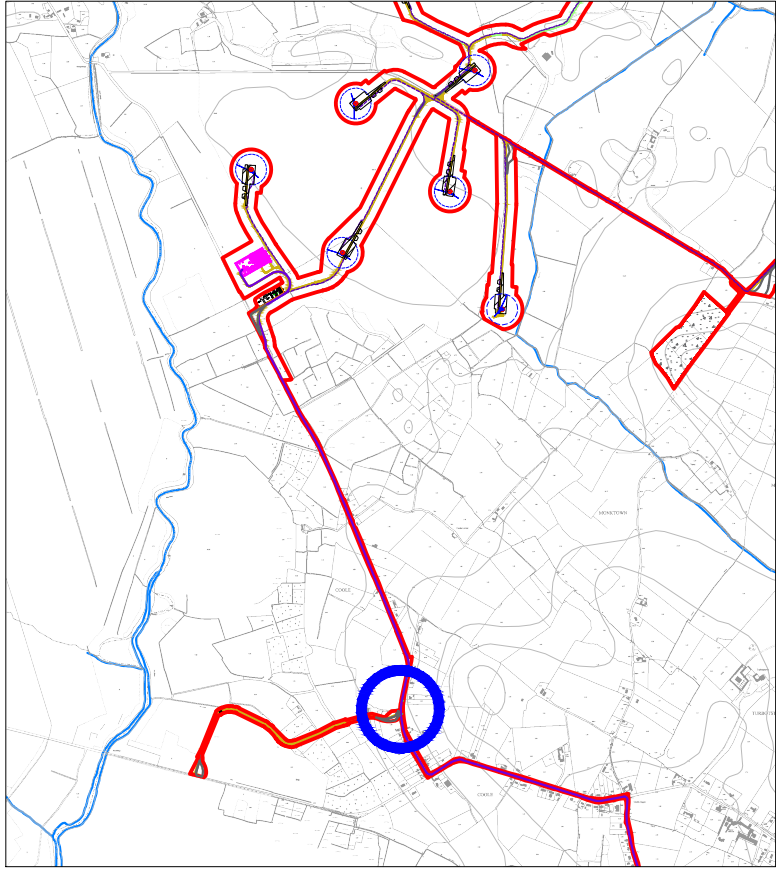
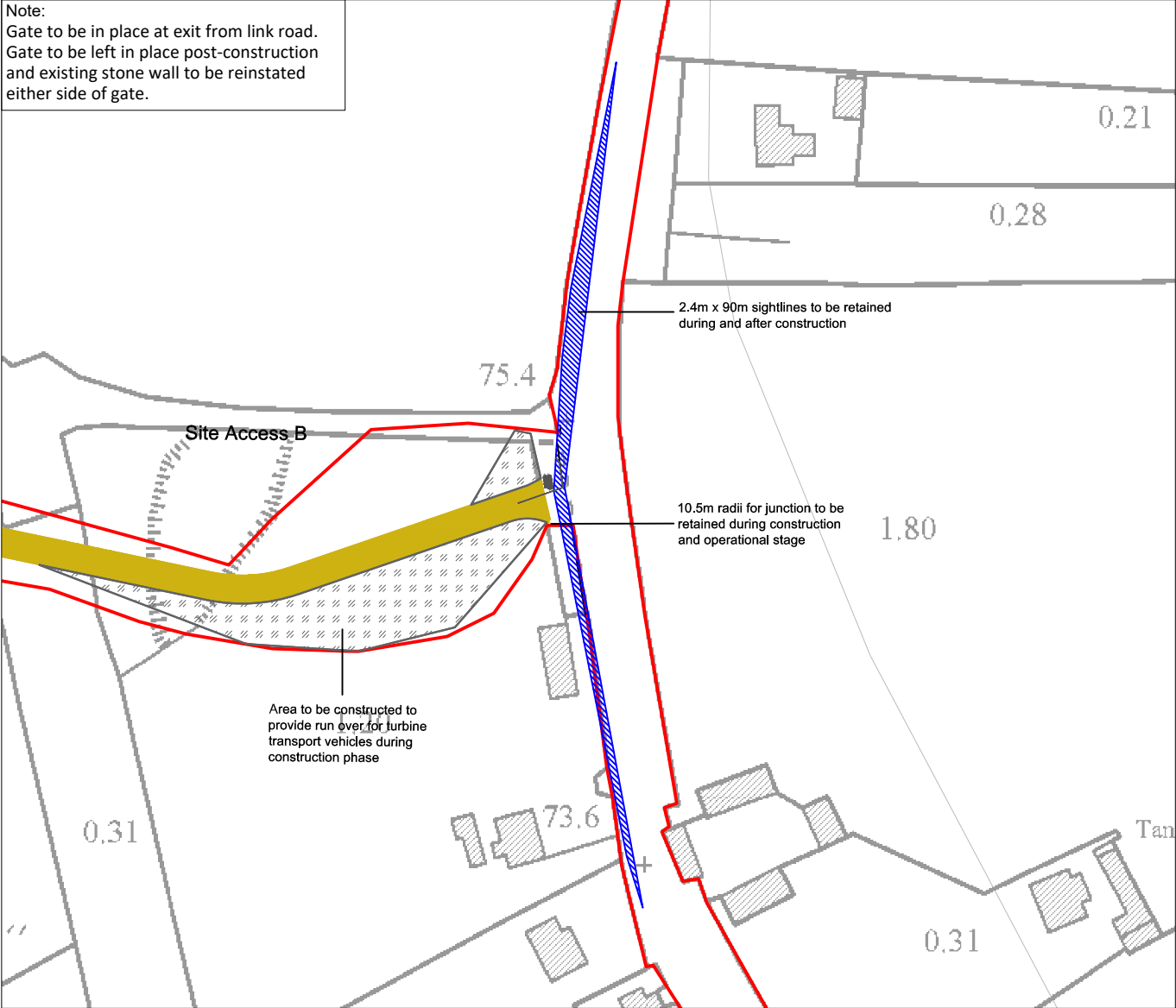
1:25,000 Location on Context Map




DRAWING TITLE Proposed Site Access A			
PROJECT TITLE Coole Wind Farm, Co. Westmeath			
DRAWING BY Joseph O'Brien	CHECKED BY Michael Watson		
PROJECT No 200445	DRAWING No 200445 - 50		
SCALE 1:1,000 @ A3	DATE 18.03.2021		
<small>DWG SHEET No: 2208, 2207, 2218, 2219, 2209, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400</small>			
		MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VV94 +353 (0)91 735641 email: info@www.mkoireland.ie Website: www.mkoireland.ie	

Drawing Legend	
	Proposed Road
	Unbound Hardcore Surface
	Sight Line

Note:
Gate to be in place at exit from link road.
Gate to be left in place post-construction
and existing stone wall to be reinstated
either side of gate.



1:25,000 Location on Context Map 

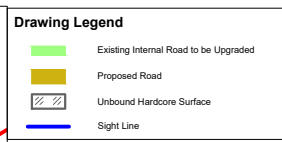
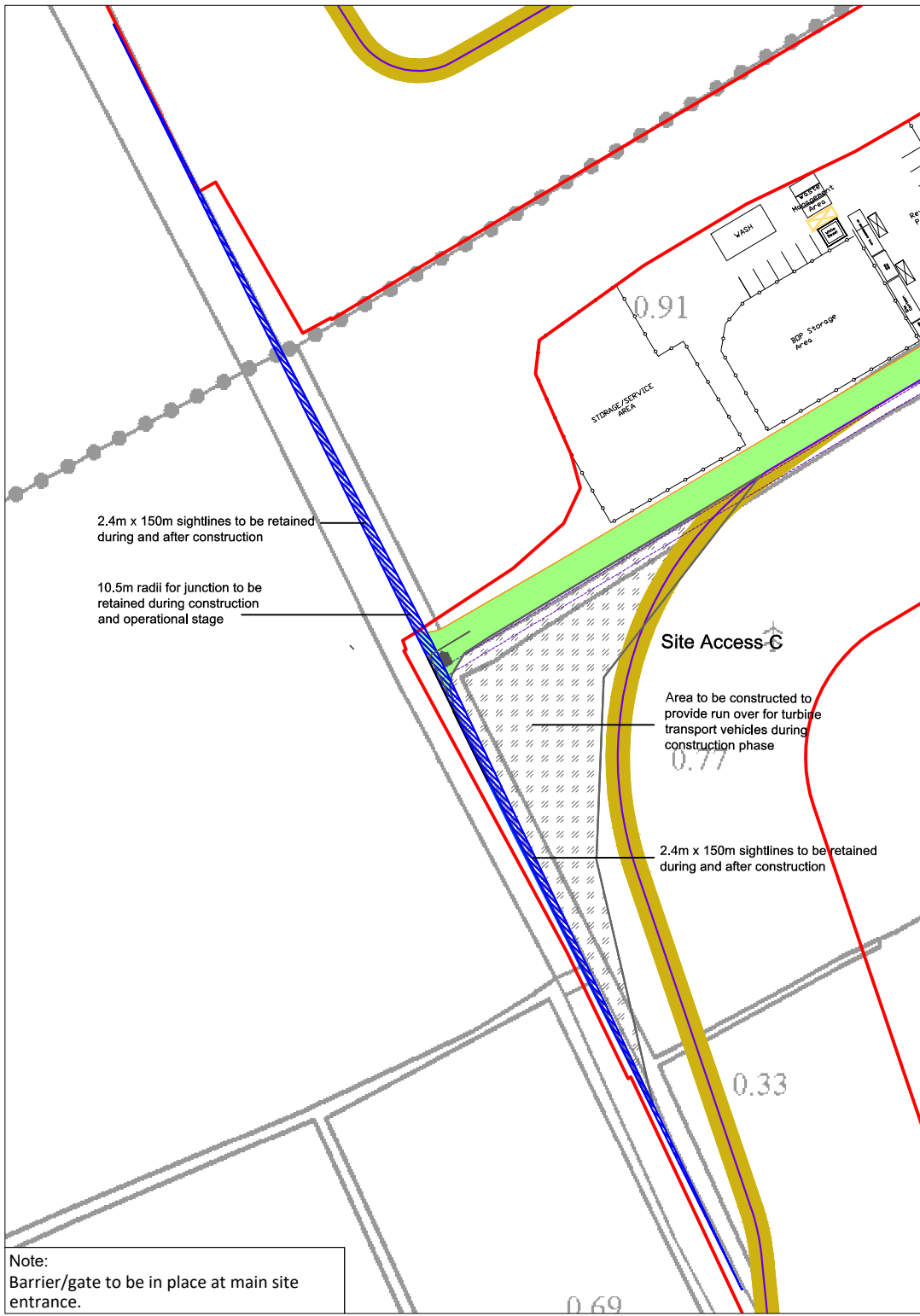


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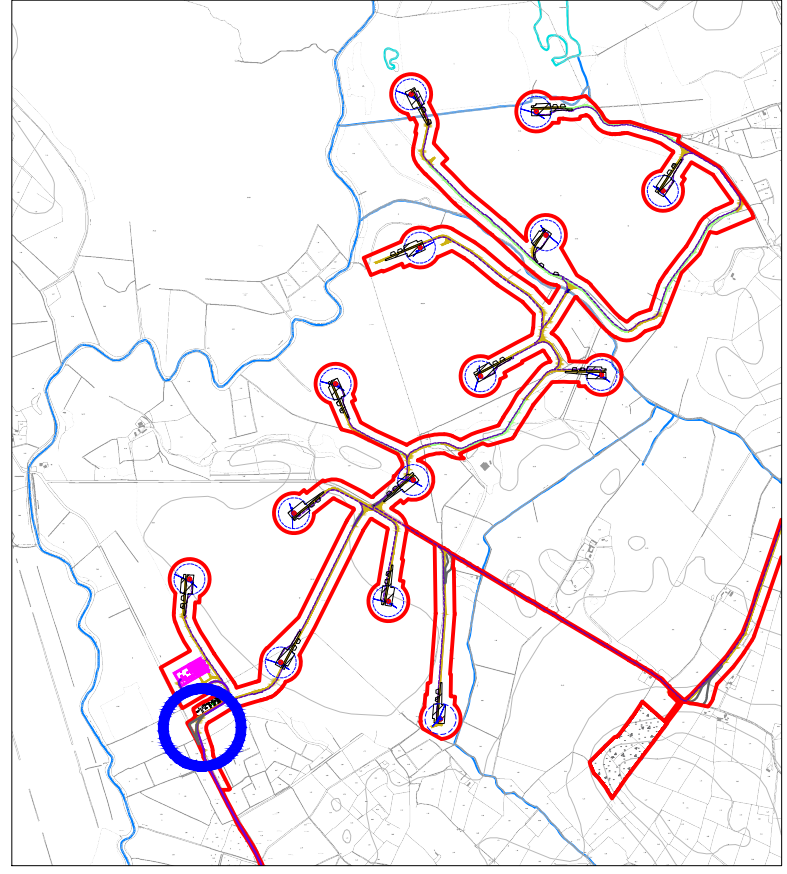
DRAWING TITLE	
Proposed Site Access B	
PROJECT TITLE	
Coole Wind Farm, Co. Westmeath	
DRAWING BY	CHECKED BY
Joseph O'Brien	Michael Watson
PROJECT NO.	DRAWING NO.
200445	200445 - 51
SCALE:	DATE:
1:1,000 @ A3	18.03.2021



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 Website: www.mkoireland.ie



Note:
Barrier/gate to be in place at main site entrance.



1:25,000 Location on Context Map

DRAWING TITLE:
Proposed Site Access C

PROJECT TITLE:
Coole Wind Farm, Co. Westmeath

DRAWING BY: **Joseph O Brien** CHECKED BY: **Michael Watson**
PROJECT No: **200445** DRAWING No: **200445 - 52**





SCALE: **1:1,000 @ A3** DATE: **18.03.2021**

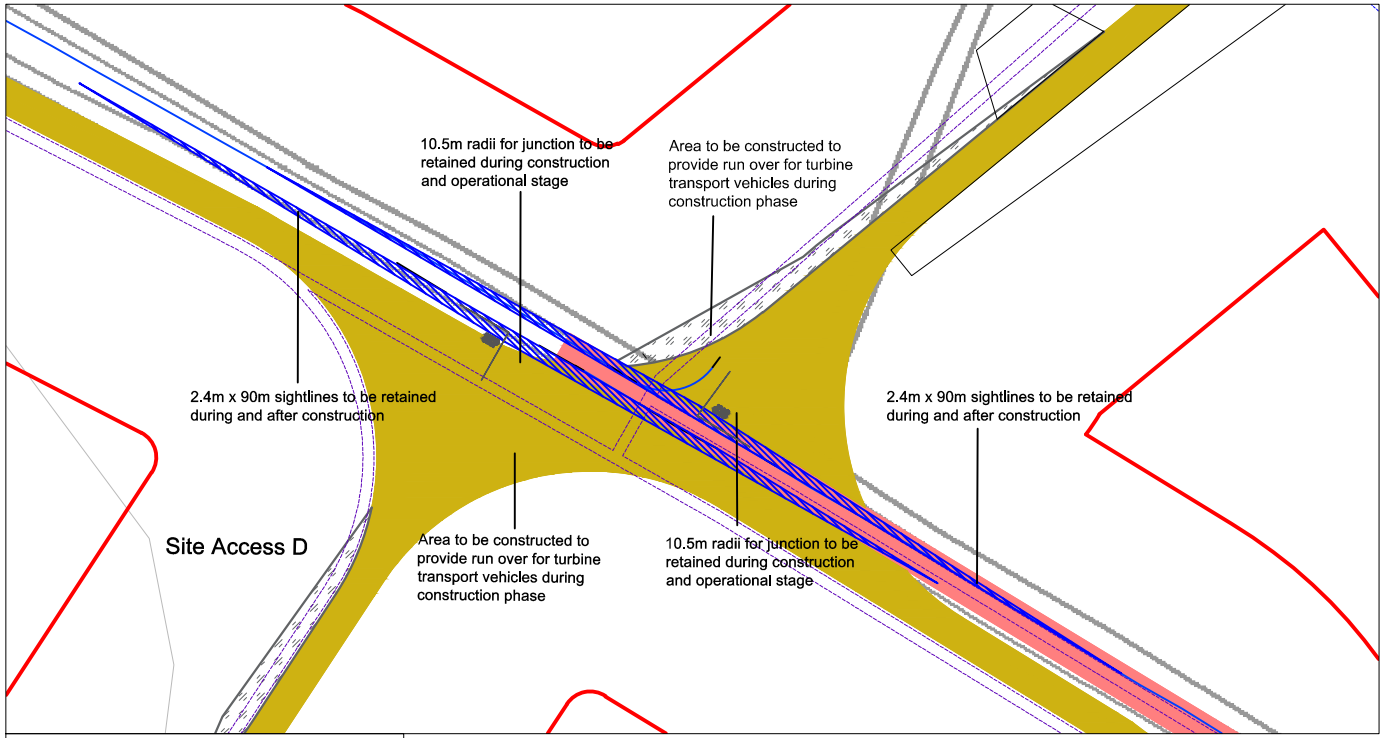
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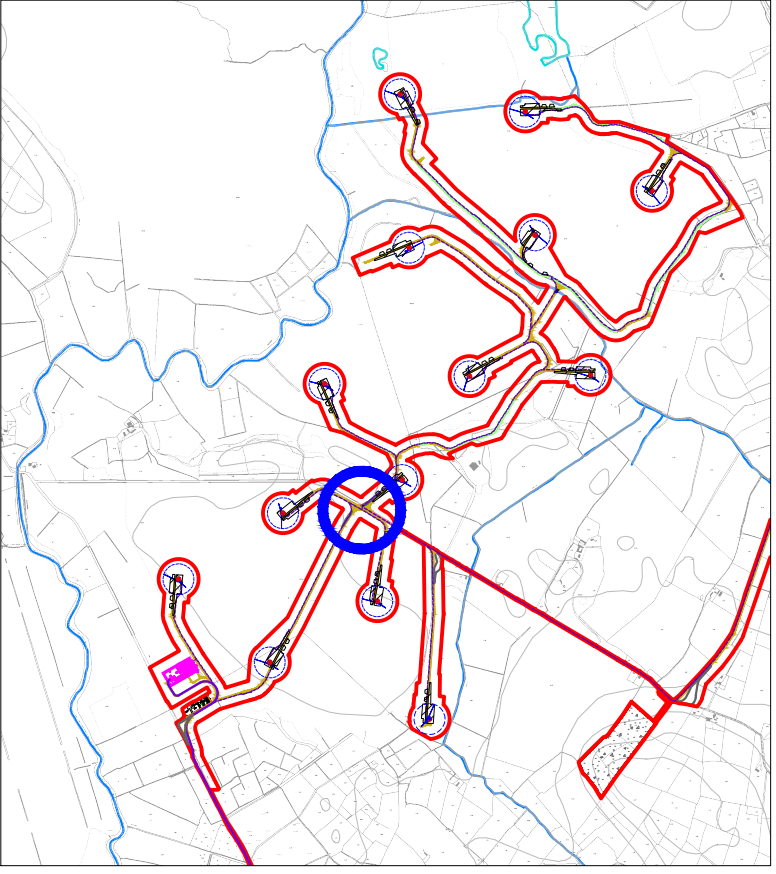
North Arrow


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Drawing Legend	
	Proposed Road
	Existing External Road to be Upgraded
	Unbound Hardcore Surface
	Sight Line



Note:
Barrier/gate to be in place at site access/egress points off local road.







1:25,000 Location on Context Map 

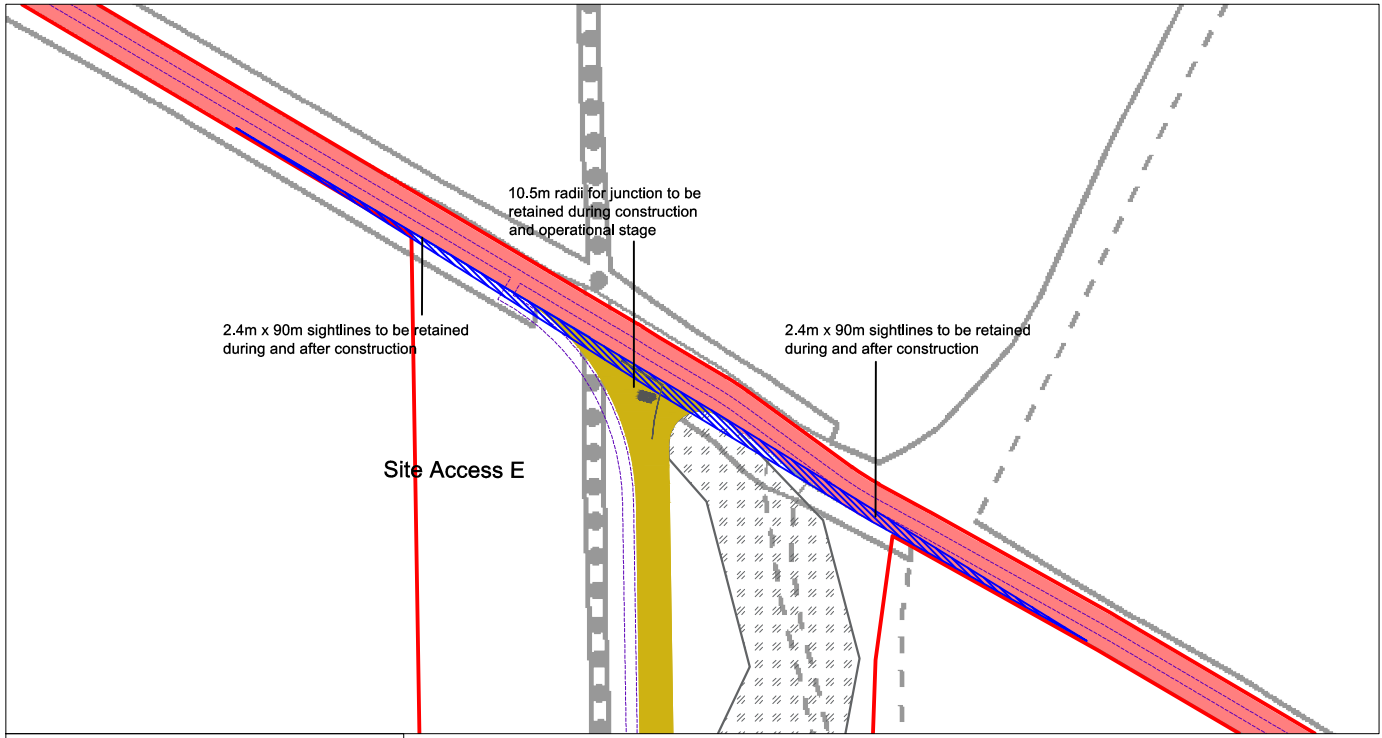


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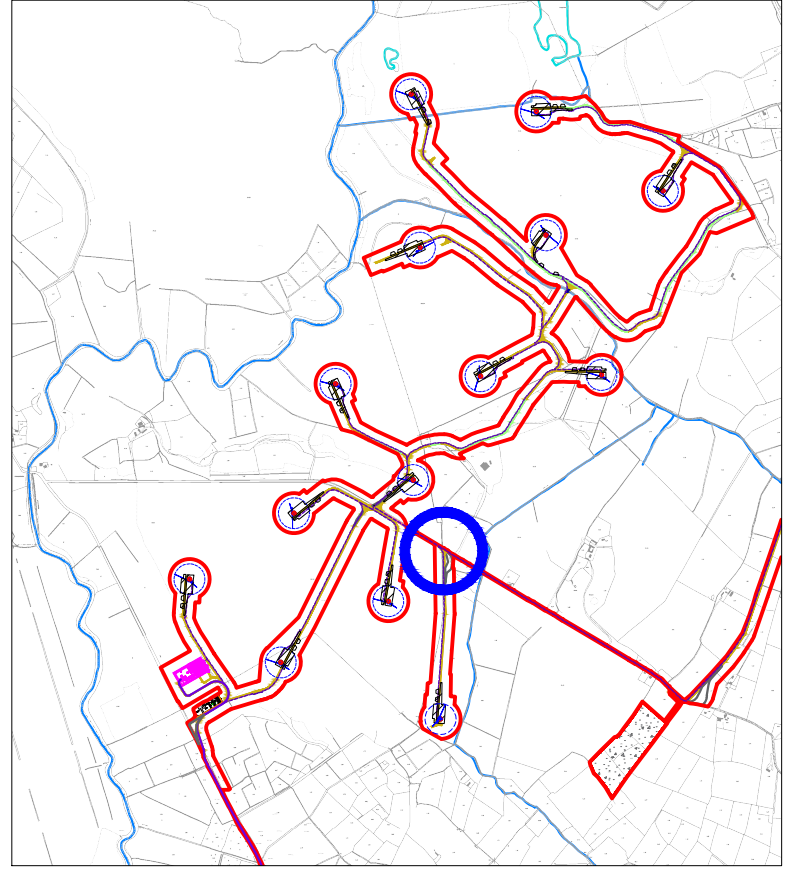
DRAWING TITLE	
Proposed Site Access D	
PROJECT TITLE	
Coole Wind Farm, Co. Westmeath	
DRAWING BY	CHECKED BY
Joseph O'Brien	Michael Watson
PROJECT No.	DRAWING No.
200445	200445 - 53
SCALE:	DATE:
1:1,000 @ A3	18.03.2021
<small> OS GRID REF: 2208 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2208 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 </small>	
	
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Drawing Legend

	Proposed Road
	Existing External Road to be Upgraded
	Unbound Hardcore Surface
	Sight Line



Note:
Barrier/gate to be in place at site access/egress points off local road.



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DRAWING TITLE
Proposed Site Access E

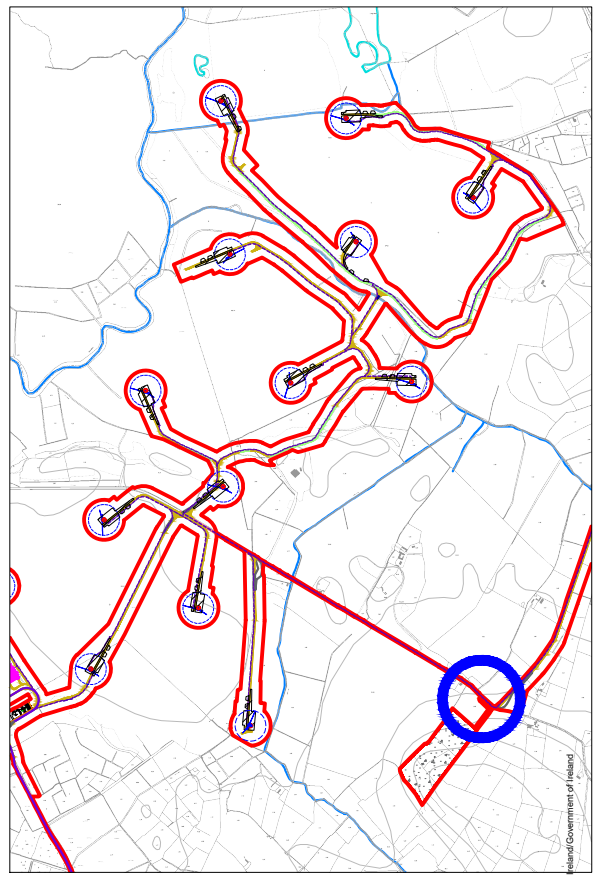
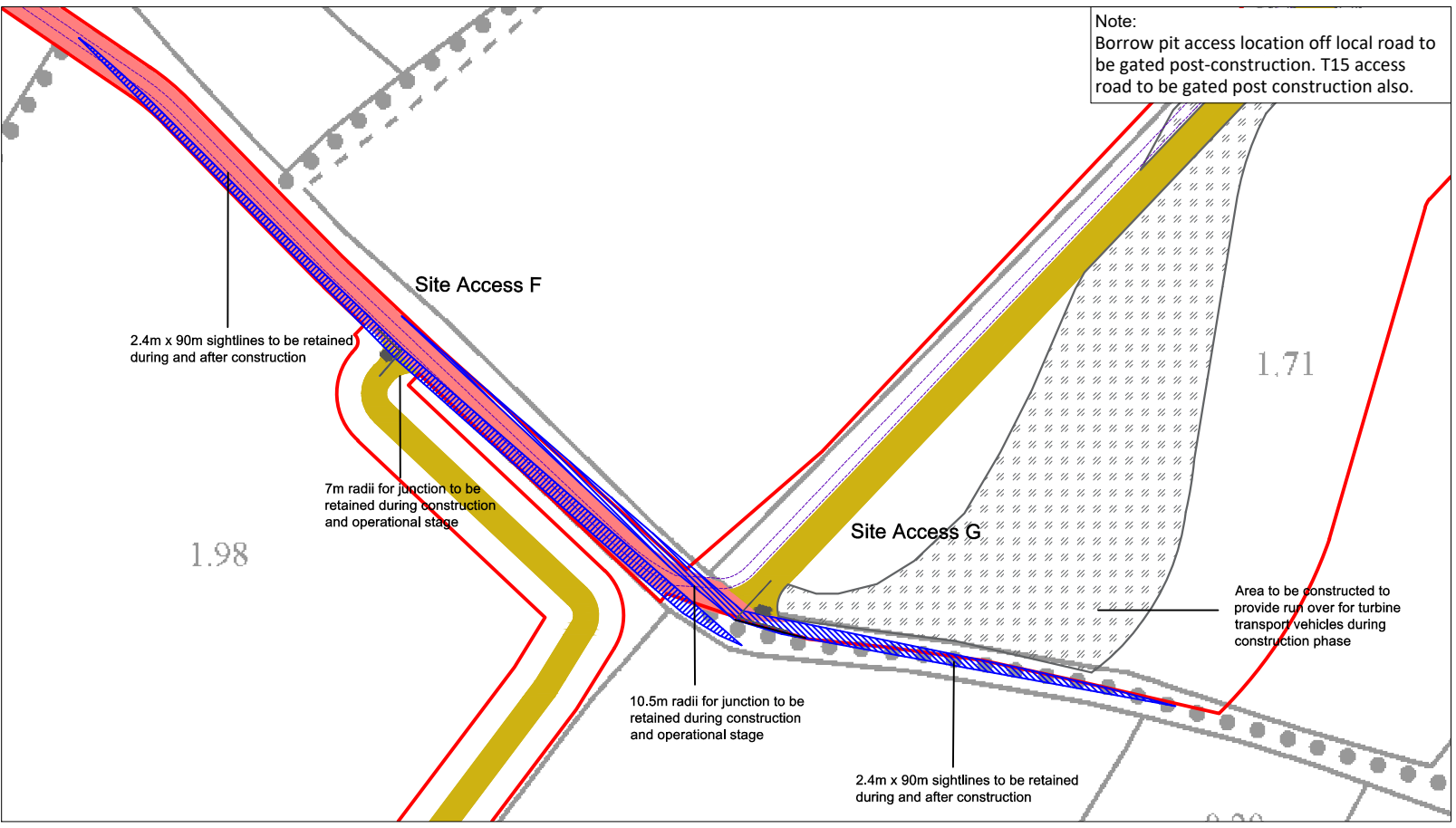
PROJECT TITLE
Coole Wind Farm, Co. Westmeath

DRAWING BY Joseph O Brien	CHECKED BY Michael Watson
PROJECT NO. 200445	DRAWING NO. 200445 - 54
SCALE 1:1,000 @ A3	DATE 18.03.2021

OR DRYSET No:
2208, 2207, 2218, 2219, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272

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Drawing Legend	
	Proposed Road
	Existing External Road to be Upgraded
	Unbound Hardcore Surface
	Sight Line



DRAWING TITLE
Proposed Site Access F & G

PROJECT TITLE
Coole Wind Farm, Co. Westmeath

DRAWING BY Joseph O Brien	CHECKED BY Michael Watson
PROJECT No. 200445	DRAWING No. 200445 - 55
SCALE 1:1,000 @ A3	DATE 18.03.2021

FOR SHEET:
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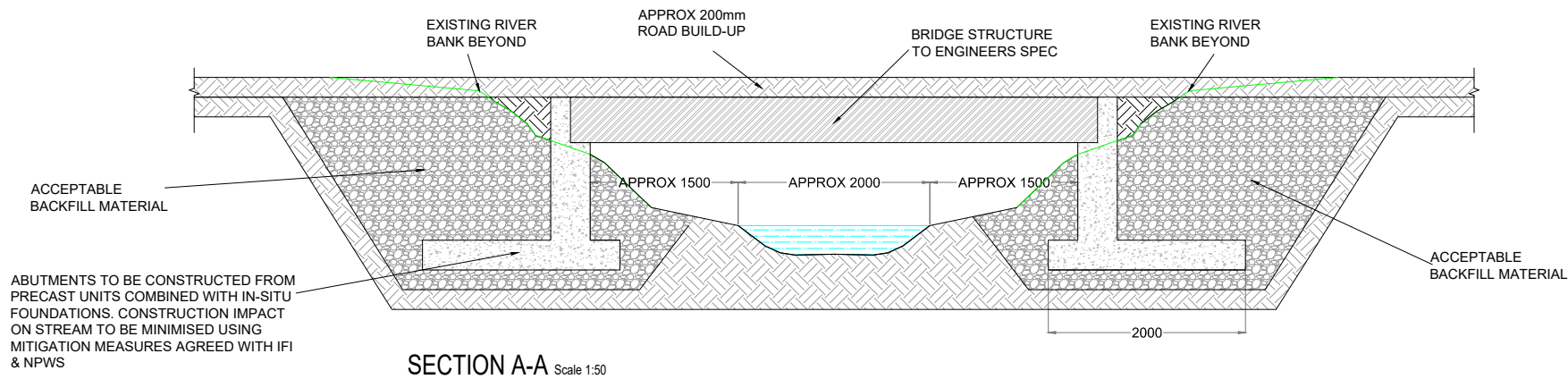
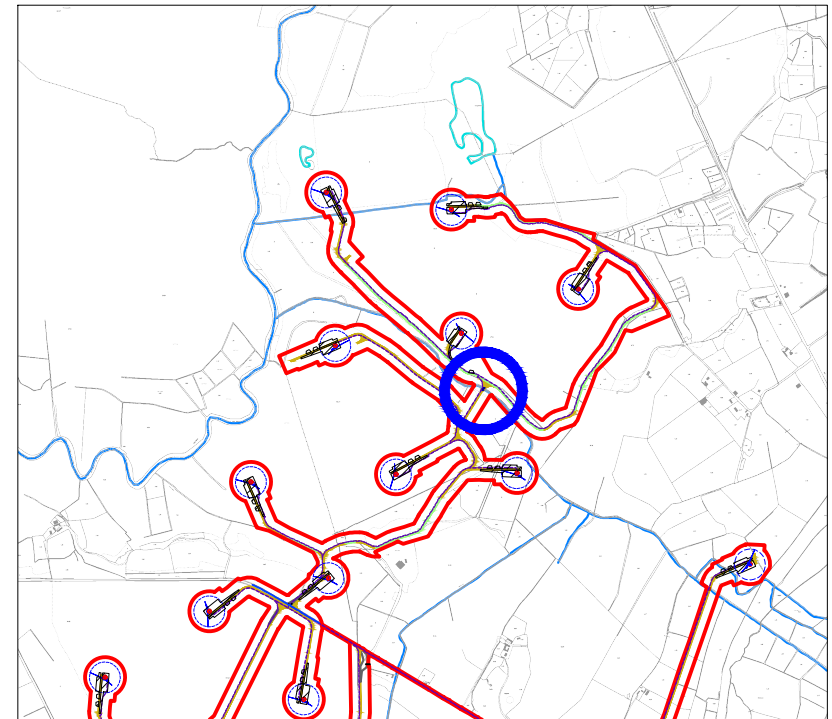
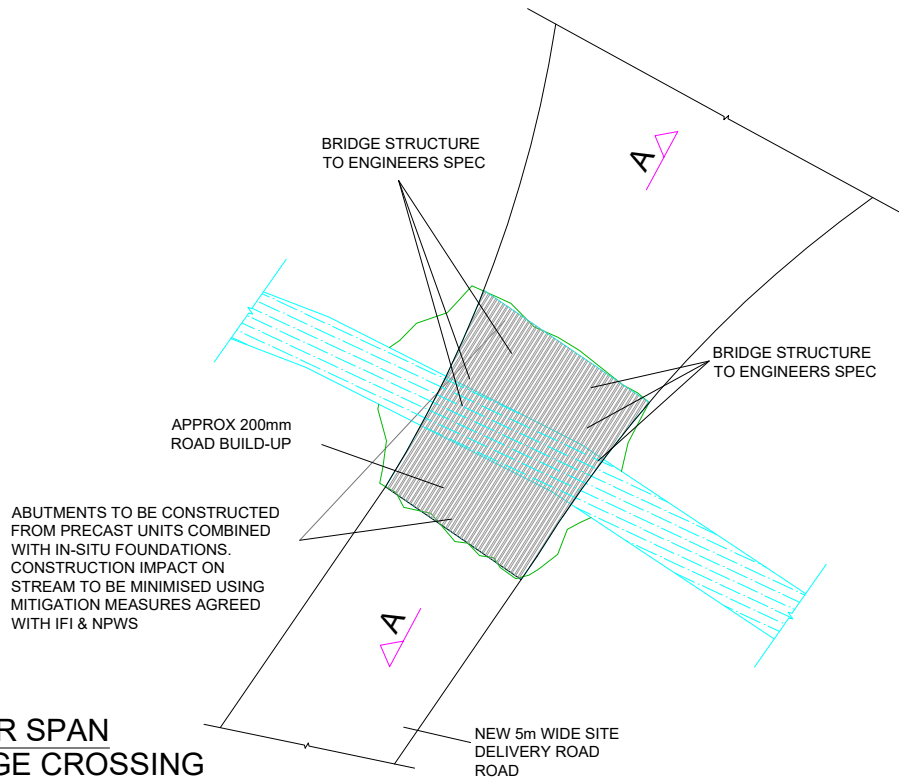
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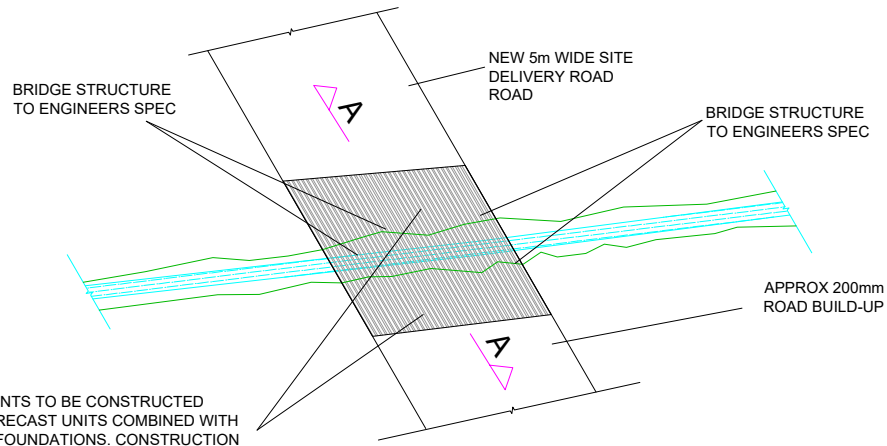
CLEAR SPAN BRIDGE CROSSING PLAN

Scale 1:200



SECTION A-A Scale 1:50

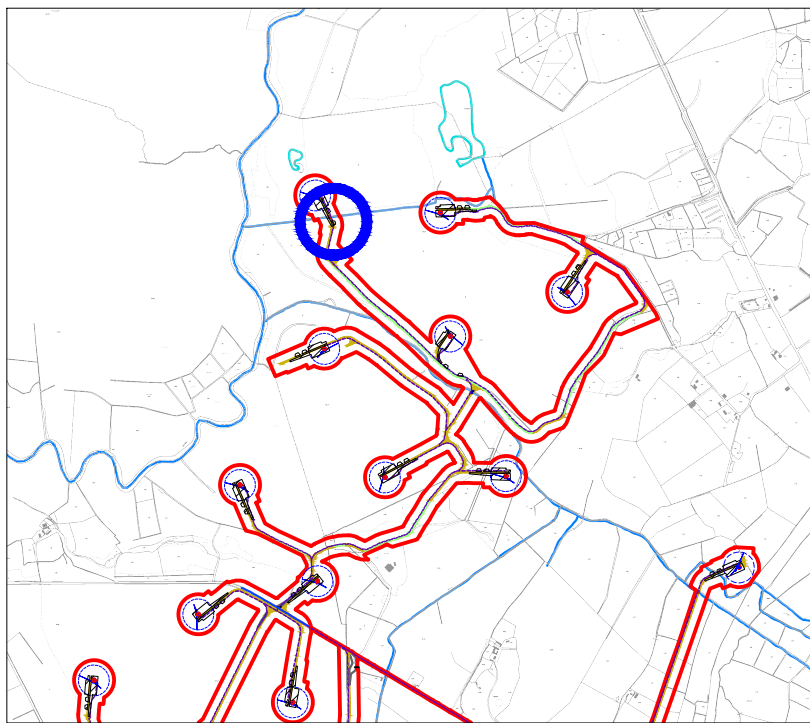
DRAWING TITLE	
Typical Clear Span Bridge (Crossing 1)	
Coole Wind Farm, Co. Westmeath	
DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 56
SCALE: As Shown @ A3	DATE: 18.03.2021
<small> MKO 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080 </small>	
MKO Planning and Environmental Consultants Team Road, Galway Ireland, H91 V9W4 +353 (0) 91 735611 email: info@www.mkofireland.ie Website: www.mkofireland.ie	



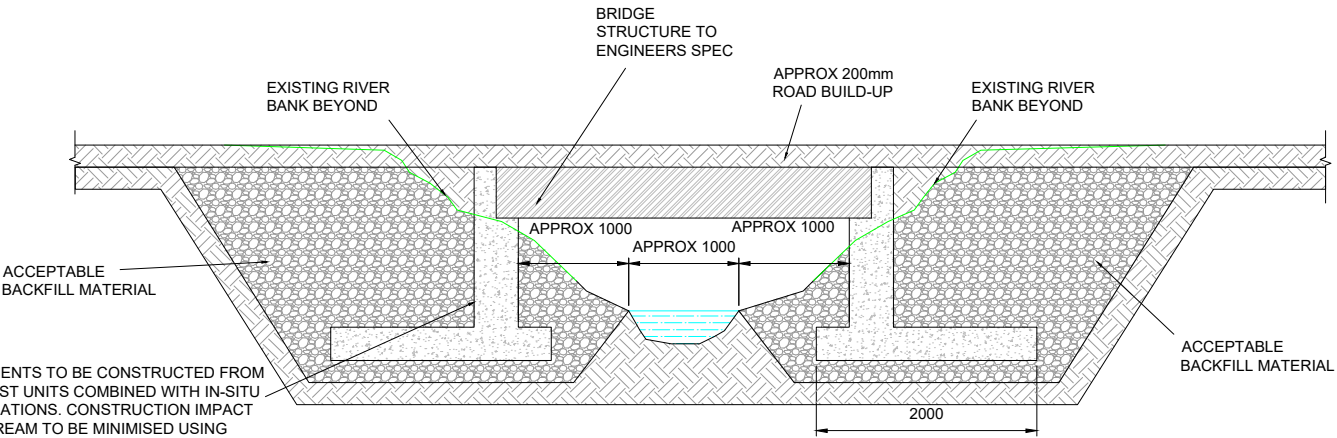
ABUTMENTS TO BE CONSTRUCTED FROM PRECAST UNITS COMBINED WITH IN-SITU FOUNDATIONS. CONSTRUCTION IMPACT ON STREAM TO BE MINIMISED USING MITIGATION MEASURES AGREED WITH IFI & NPWS

CLEAR SPAN BRIDGE CROSSING PLAN

Scale 1:200



1:25,000 Location on Context Map



ABUTMENTS TO BE CONSTRUCTED FROM PRECAST UNITS COMBINED WITH IN-SITU FOUNDATIONS. CONSTRUCTION IMPACT ON STREAM TO BE MINIMISED USING MITIGATION MEASURES AGREED WITH IFI & NPWS

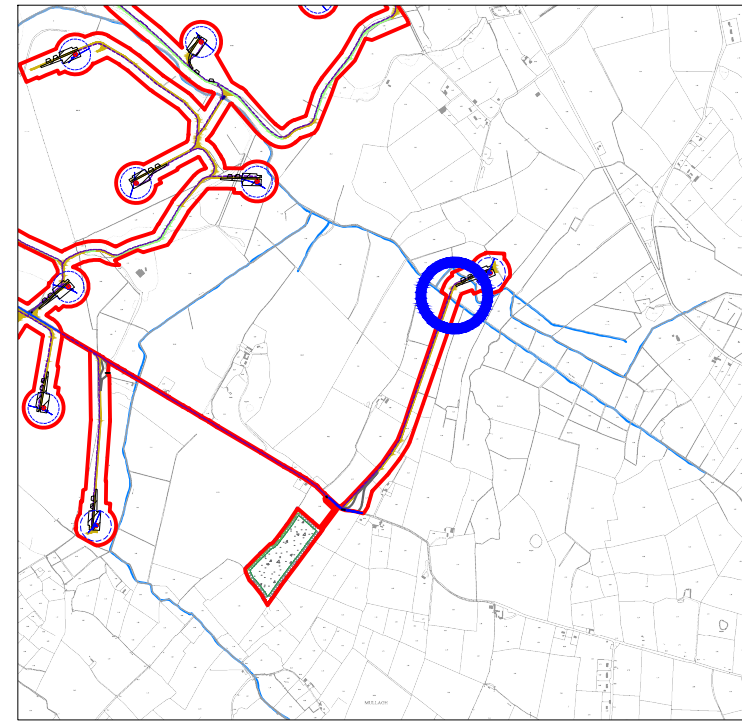
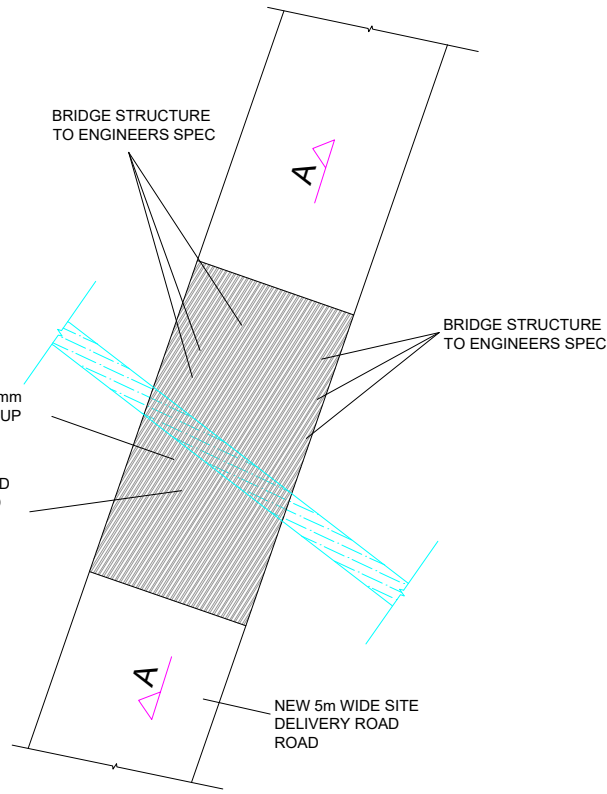
SECTION A-A Scale 1:50

DRAWING TITLE	
Typical Clear Span Bridge (Crossing 2)	
Coole Wind Farm, Co. Westmeath	
DRAWING BY: Joseph O'Brien	CHECKED BY: Michael Watson
PROJECT NO: 200445	DRAWING NO: 200445 - 57
SCALE: As Shown @ A3	DATE: 18.03.2021
<small> MKO 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080 </small>	
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland H91 VWS4 +353 (0) 91 735611 email: info@www.mkofireland.ie Website: www.mkofireland.ie	

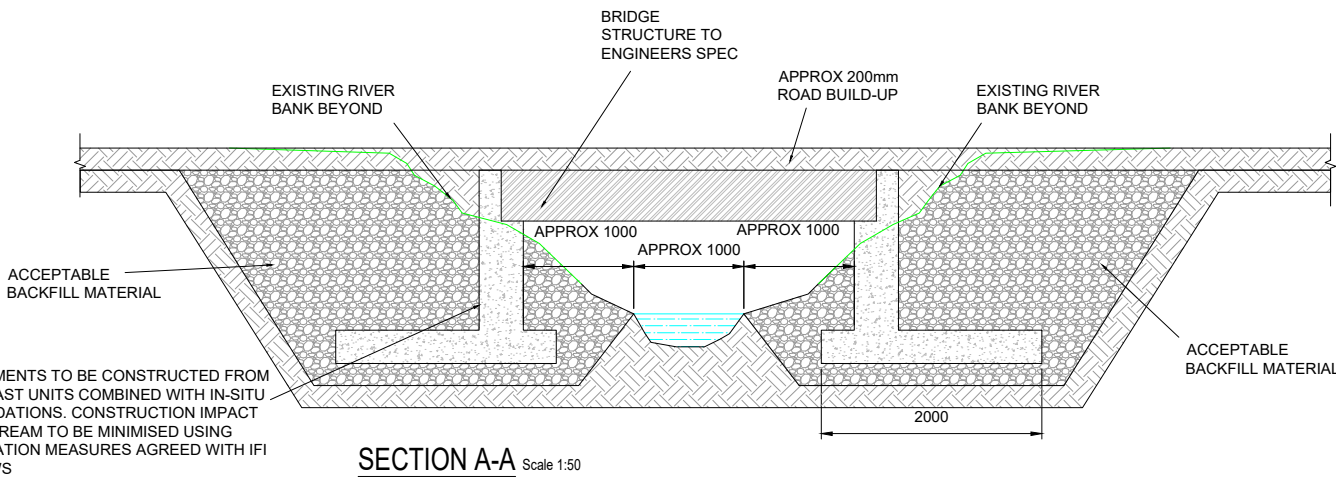
CLEAR SPAN BRIDGE CROSSING PLAN

Scale 1:200

ABUTMENTS TO BE CONSTRUCTED FROM PRECAST UNITS COMBINED WITH IN-SITU FOUNDATIONS. CONSTRUCTION IMPACT ON STREAM TO BE MINIMISED USING MITIGATION MEASURES AGREED WITH IFI & NPWS



1:25,000 Location on Context Map



SECTION A-A Scale 1:50

ABUTMENTS TO BE CONSTRUCTED FROM PRECAST UNITS COMBINED WITH IN-SITU FOUNDATIONS. CONSTRUCTION IMPACT ON STREAM TO BE MINIMISED USING MITIGATION MEASURES AGREED WITH IFI & NPWS

DRAWING TITLE	
Typical Clear Span Bridge (Crossing 3)	
Coole Wind Farm, Co. Westmeath	
DRAWING BY:	CHECKED BY:
Joseph O'Brien	Michael Watson
PROJECT NO:	DRAWING NO:
200445	200445 - 58
SCALE:	DATE:
As Shown @ A3	18.03.2021
MKO Planning and Environmental Consultants Team Road, Galway Ireland H92 VWS4 +353 (0) 91 735611 email: info@www.mkofireland.ie Website: www.mkofireland.ie	