

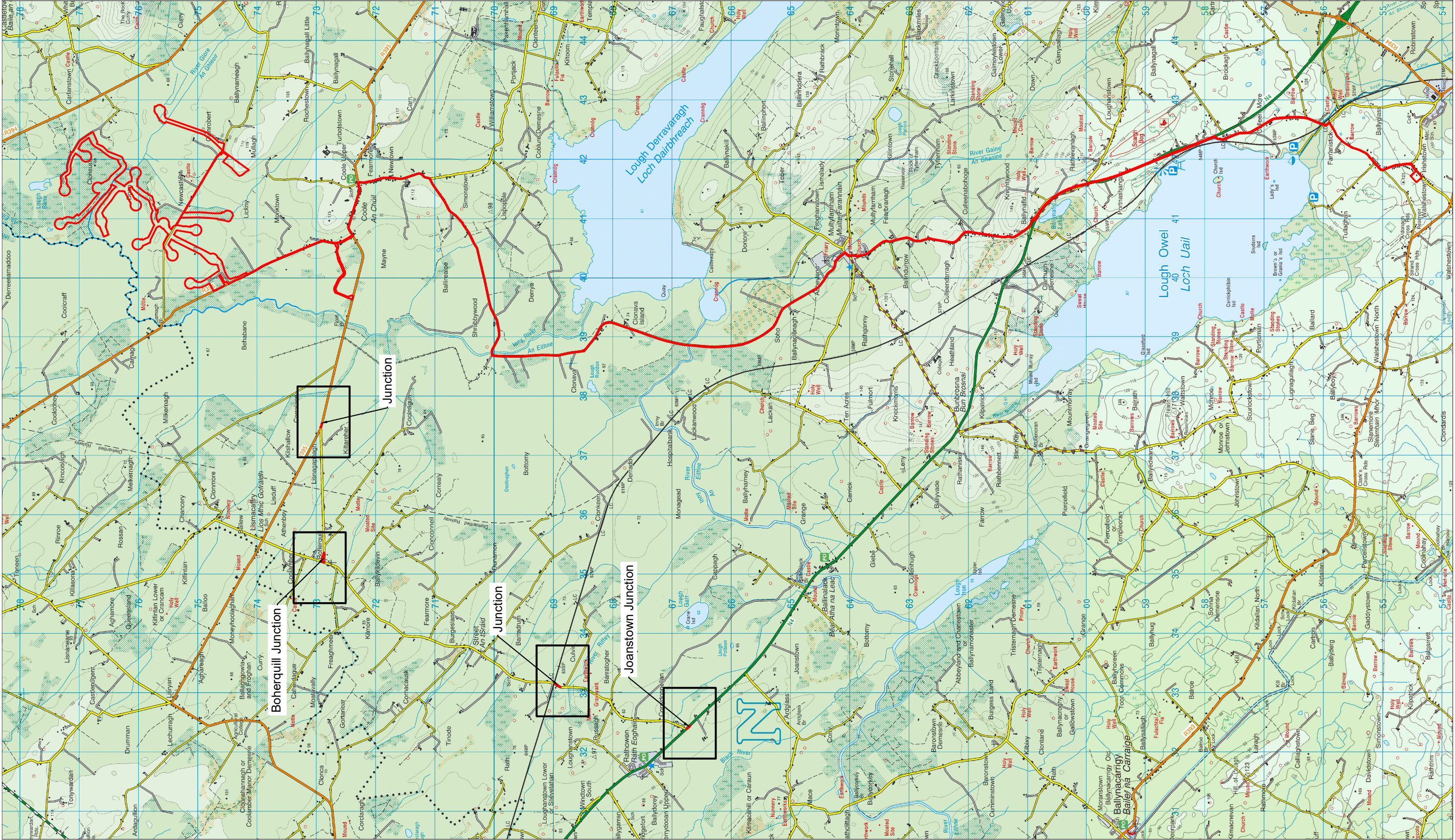
**Coole Wind Farm FI,
Co. Westmeath
Planning Permission Application Drawings**





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200445g – 08 FI	Site Location Plan 5 of 9	1: 5,000	A1
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COLE d005.3.4	SHRUBBYWOOD BRIDGE CROSSING WH-L1825-002.00 PROPOSED OPTION B	1:100 / 1:25	A1
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COLE d005.3.6	CLONAVA BRIDGE CROSSING WH-L1825-001.00 PROPOSED OPTION D	1:25 / 1:125	A1
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COLE d006.1.1	MULLINGAR SUBSTATION ILLUSTRATIVE PLAN	1: 100	A1
COLE d006.1.2	MULLINGAR SUBSTATION EXTENSION EQUIPMENT DETAILS	1: 100	A1



Drawing Legend

Planning Application Boundary



DRAWING TITLE

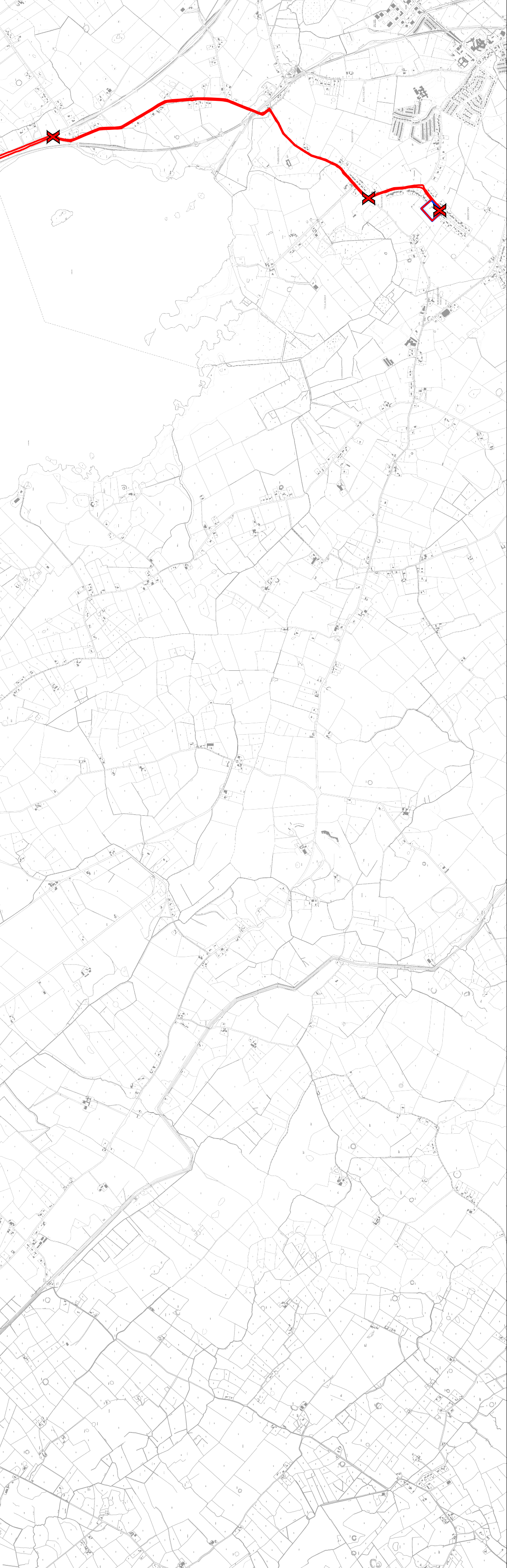
Location Context Map

PROJECT TITLE:	Coole Wind Farm Fl, Co. Westmeath		
DRAWING BY:	Joseph O'Brien		
CHECKED BY:	Meabhann Crowe		
PROJECT NO.:	200445g	DRAWING NO.:	200445g - 01 Fl
SCALE:	1:60,000 @A3	DATE:	27.10.2022
CS SHEET NO.:	OS2226, OS2426		



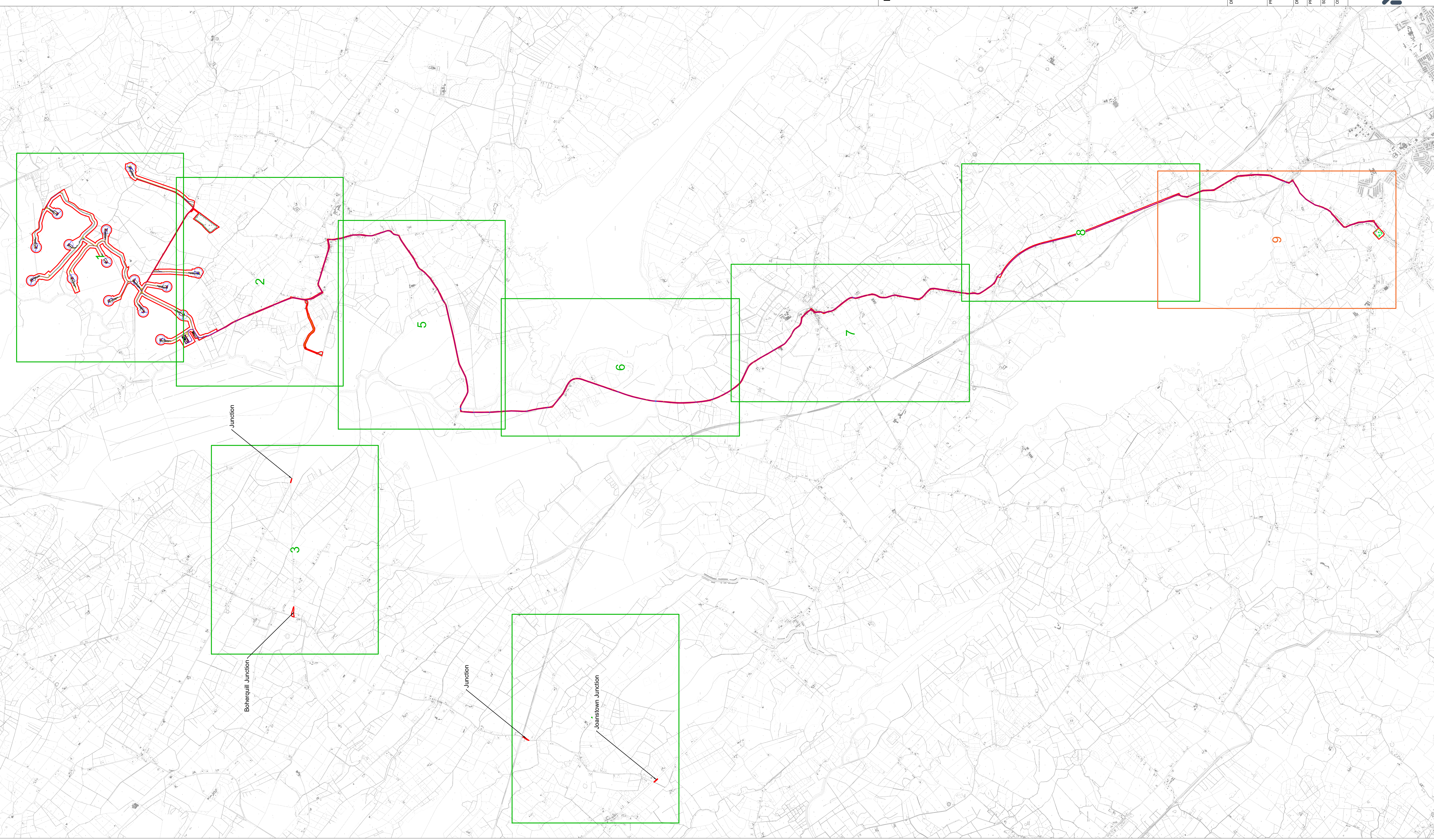
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-
- The map displays a road network in a rural area of Ireland. A prominent red line traces a route from the northwest, through a series of junctions marked with red 'X's, and extending towards the northeast. Blue outlines delineate specific geographical areas, including a large irregular shape in the northwest and a smaller one in the center. Three labels with arrows identify key locations: 'Junction' (pointing to a junction on the left), 'Boherquill Junction' (pointing to a junction below the first 'Junction'), and 'Joanstown Junction' (pointing to a junction further down the route). The map also shows a large body of water in the upper right and a dense network of roads throughout the landscape.

[illegible]

Project Design Drawing Notes

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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

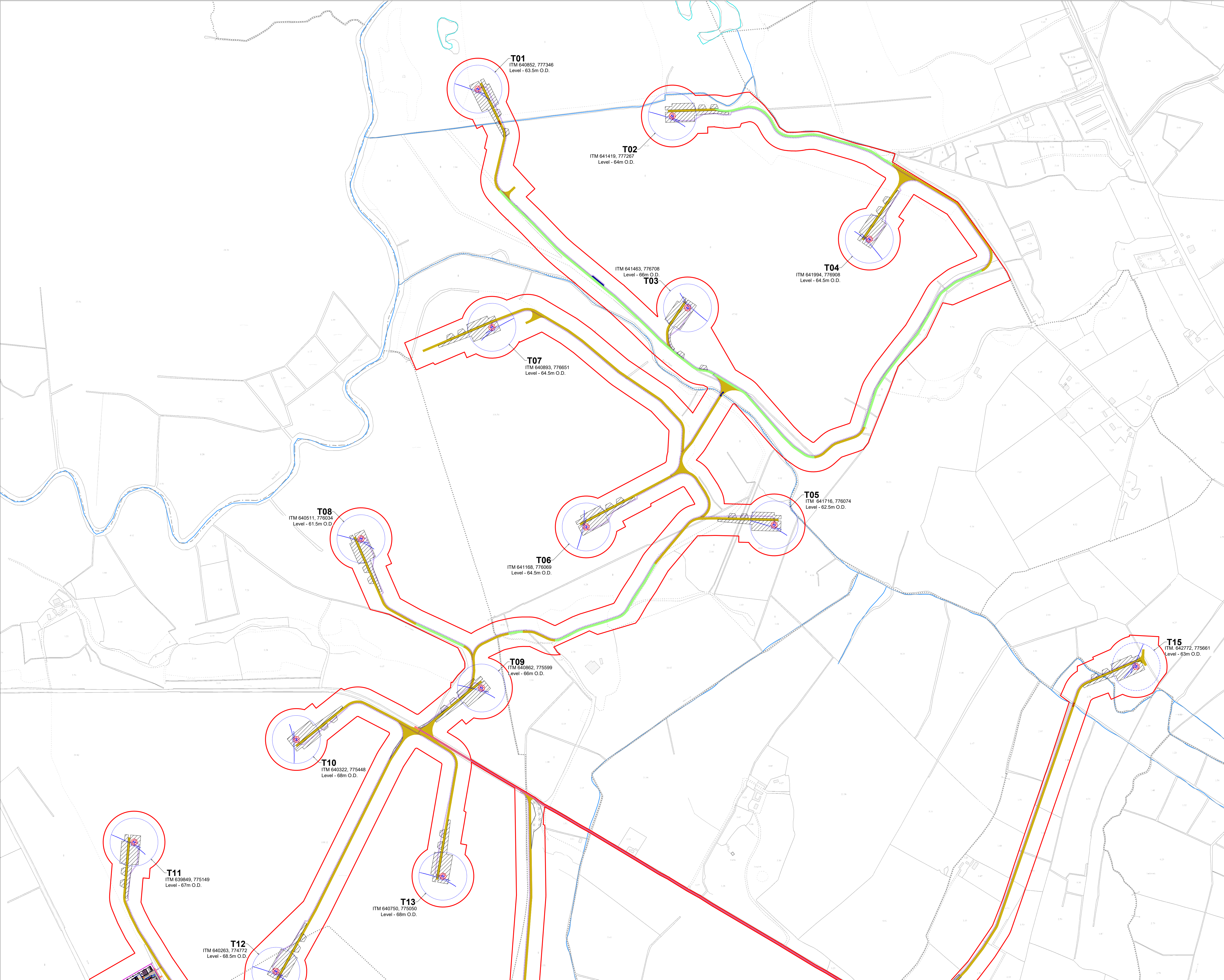
- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Existing External Road to be Upgraded
- Proposed Road
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow Pit
- Temporary Construction Compound
- Internal Electrical Cabling
- Grid Connection Route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



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Site Location Key Plan

PROJECT TITLE: Coolle Wind Farm FI, Co. Westmeath	
DRAWING BY: Joseph O'Brien	CHECKED BY: Meabhann Crowe
PROJECT NO: 200445g	DRAWING NO: 200445g - 03 FI
SCALE: 1:30,000 @ A1	DATE: 27.10.2022
OS SHEET NO: 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, 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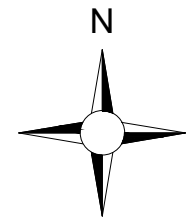


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Drawing Legend

- 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
- Internal Electrical Cabling
- Wind Farm Substation
- River/Stream
- Lakes



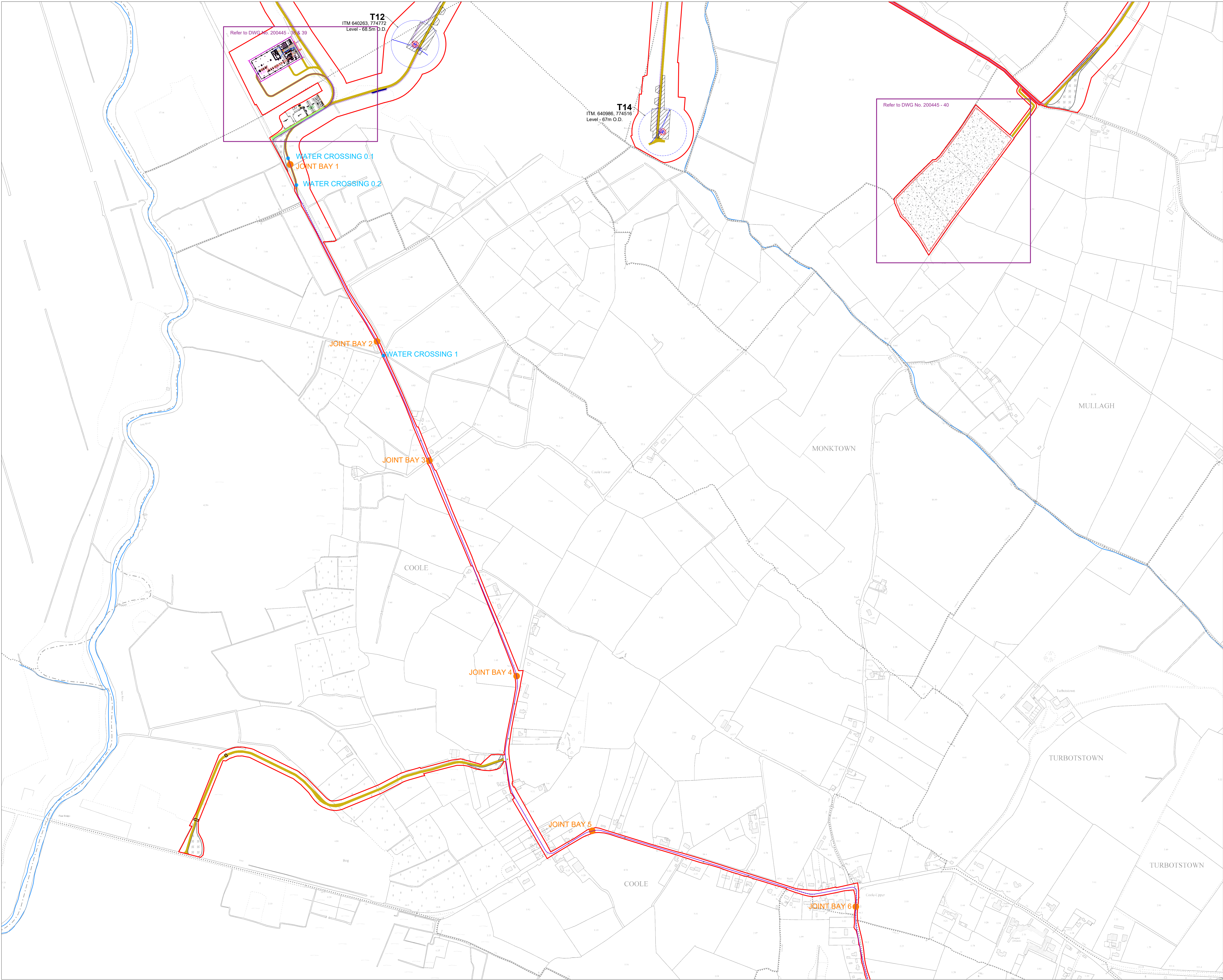
Ordnance Survey Ireland Licence No. CYAL502675176 Ordnance Survey Ireland/Government of Ireland

DRAWING TITLE:
**Site Location Plan
Sheet 1 of 9**

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 04 FI
SCALE: 1:5,000 @ A1	DATE: 27.10.2022

OS SHEET No.:
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Drawing Legend

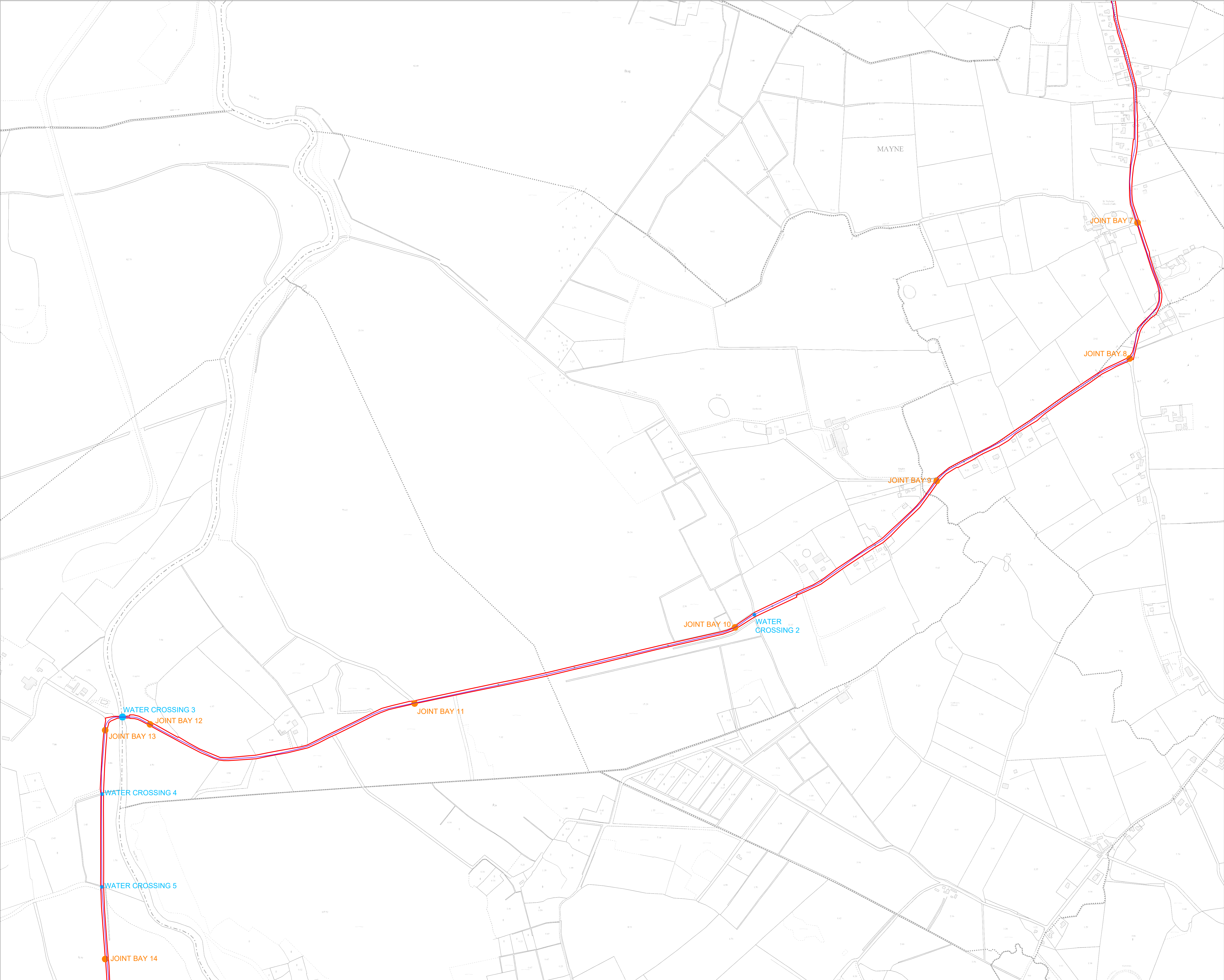
- Planning Application Boundary
- Existing Internal Road to be Upgraded
- Existing External Road to be Upgraded
- Proposed Road
- Proposed New Crossing
- Passing Bays
- Unbound Hardcore Surface
- Crossing Point for Landowners
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow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

Site Location Plan
Sheet 2 of 9

Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 05 FI
SCALE: 1:5,000 @ A1	DATE: 27.10.2022

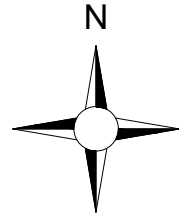
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement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

Drawing Legend

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



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DRAWING TITLE: Site Location Plan Sheet 5 of 9	
PROJECT TITLE: Coole Wind Farm FI, Co. Westmeath	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 08 FI
SCALE: 1:5,000 @ A1	DATE: 27.10.2022

OS SHEET No.:
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This is a detailed topographic map of a rural area, likely in Ireland, showing a proposed railway alignment. The alignment is represented by a double red line with orange dots marking specific points: JOINT BAY 21, JOINT BAY 22, JOINT BAY 23, JOINT BAY 24, and JOINT BAY 25. Two blue labels indicate 'WATER CROSSING 13' and 'WATER CROSSING 14'. The map includes various geographical features such as fields, roads, and buildings. Labels on the map include 'FROGHANSTOWN', 'MULTYFARNHAM', 'ABBEYLAND', and 'MT'. The map also shows a railway line running diagonally across the lower right portion of the image.

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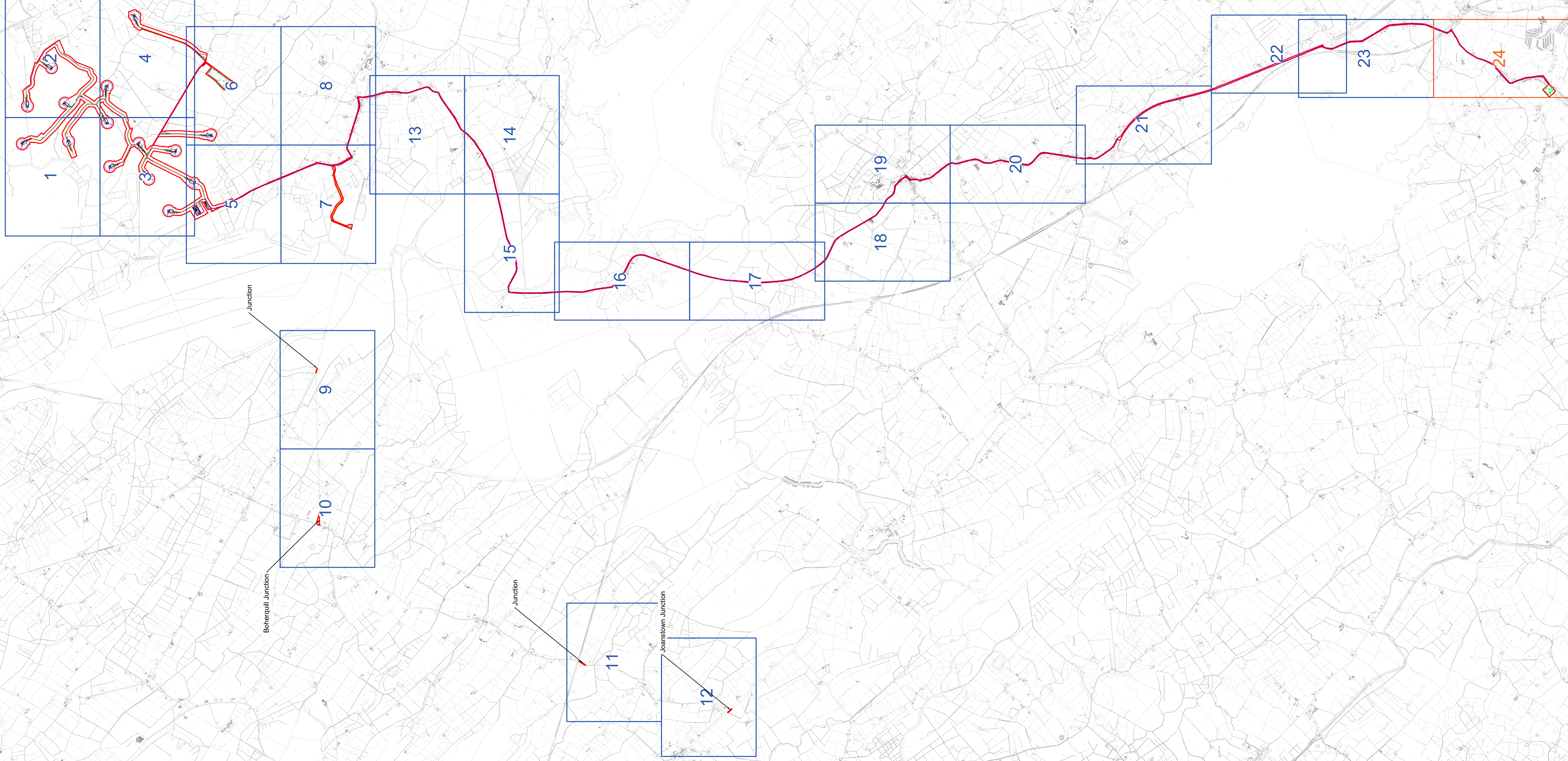


The map illustrates a proposed road alignment through the Farranistick area. Key features include:

- Proposed Route:** A red line showing the planned road path, starting from the left edge and ending near Walshestown North.
- Joint Bays:** Seven locations marked with orange dots and labeled 'JOINT BAY 30' through 'JOINT BAY 36'.
- Water Crossing:** A blue line labeled 'WATER CROSSING 16' is crossed by the proposed route.
- Geographical Labels:** 'FARRANISTICK', 'TULLAGHAN', 'IRISHTOWN', 'WALSHESTOWN NORTH', and 'BALLYGL' are labeled on the map.
- Site Identification:** A specific site is highlighted with a green rectangle and a red 'X' near Walshestown North.
- Topography:** Contour lines and shaded areas indicate the terrain and existing infrastructure.

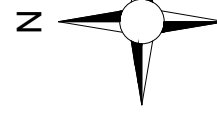
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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with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



Drawing Legend

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



DRAWING TITLE:

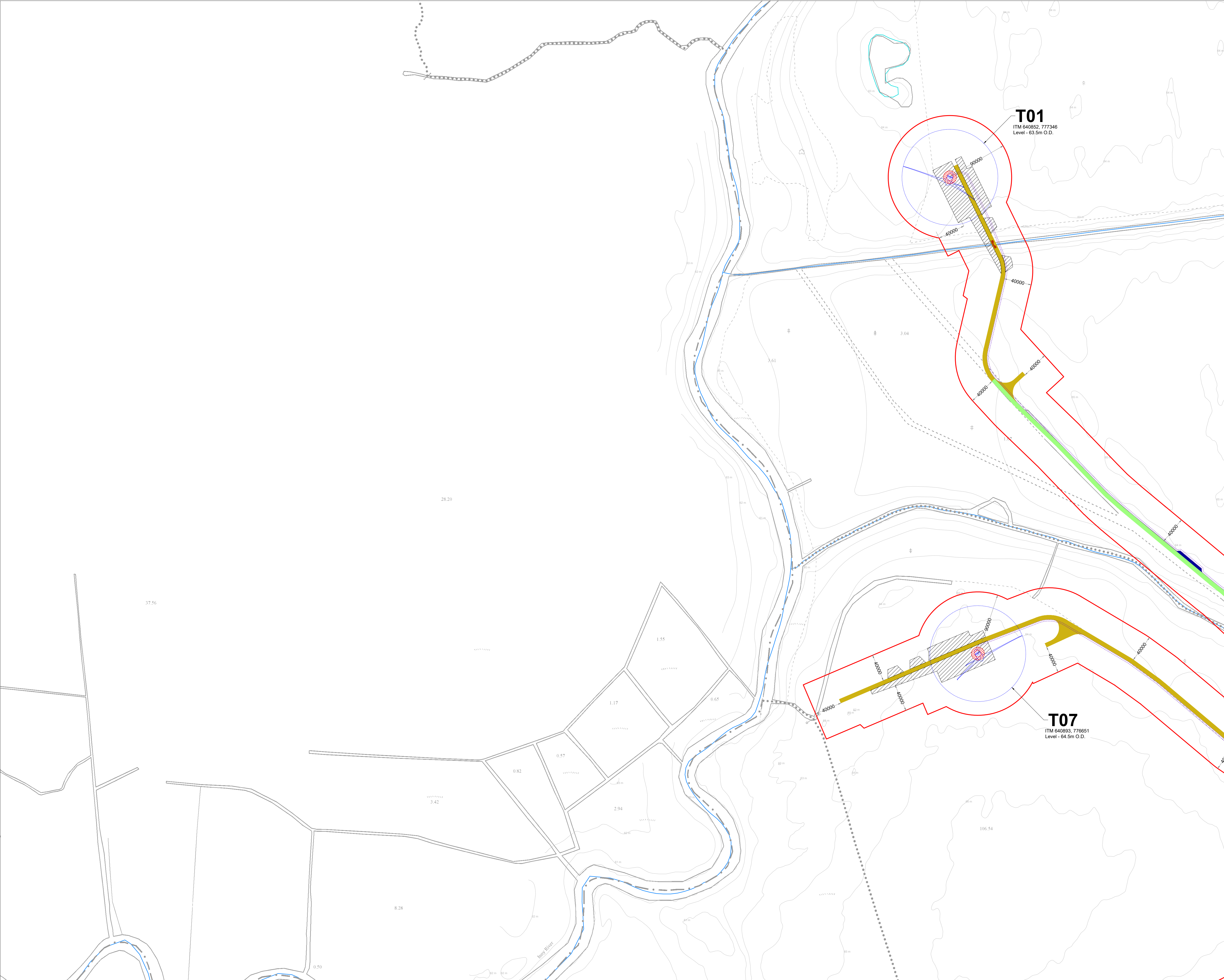
Site Location Key Plan B

PROJECT TITLE:
Coole Wind Farm Fl, Co. Westmeath

DRAWING BY:	Joseph O'Brien	CHECKED BY:	Meabhann Crowe
PROJECT No.:	200445g	DRAWING No.:	200445g - 13 FI
SCALE:	1:30,000 @ A1	DATE:	27.10.2022

OS SHEET No.:
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2495, 2496, 2562, 2563, 2564, 2565, 2629, 2630, 2631, 2632, 2696, 2700, 2701, 2702, 2766, 2769, 2772, 2771

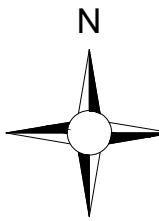
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement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



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DRAWING TITLE:
**Site Layout Plan
Sheet 1 of 24**

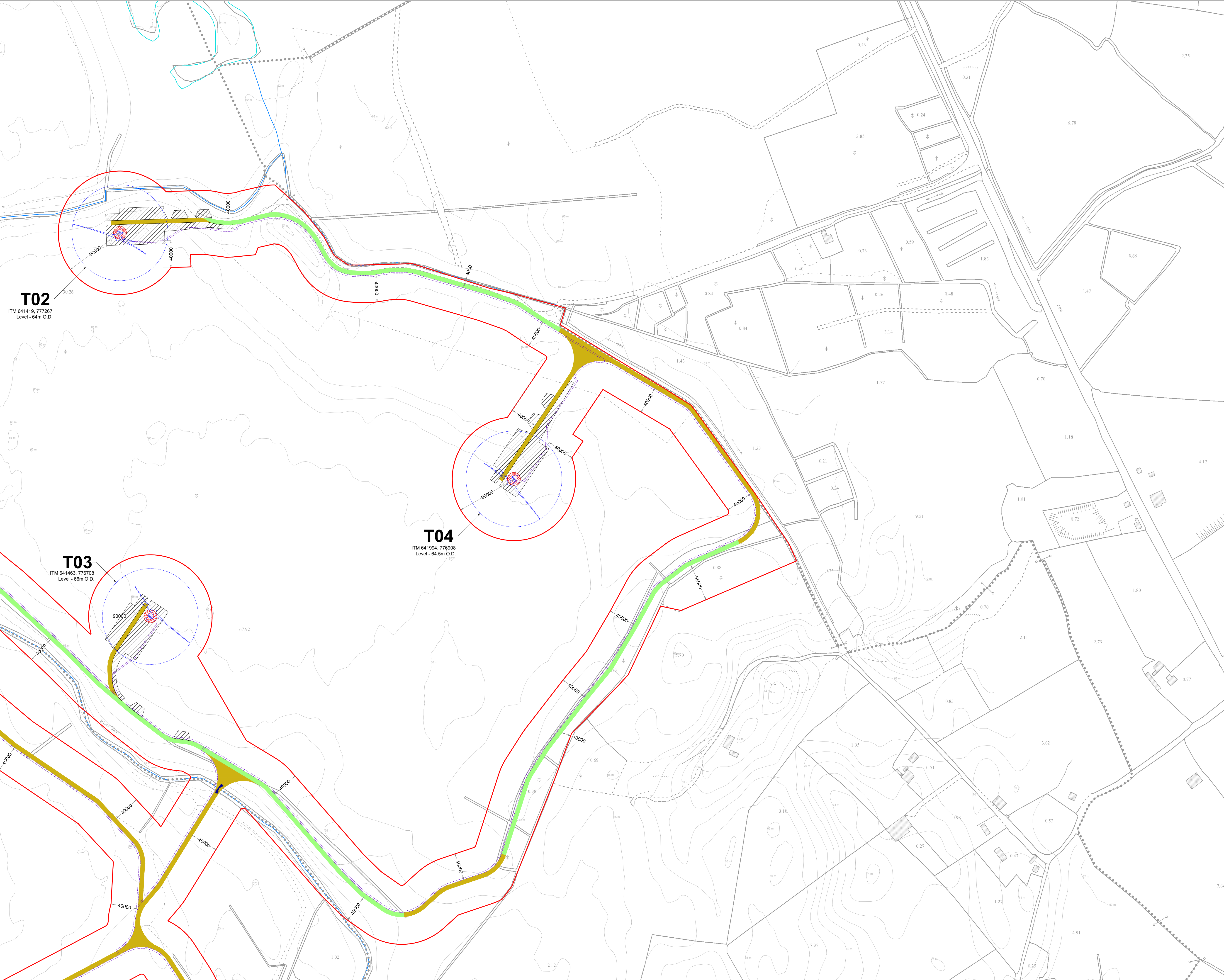
PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 14 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

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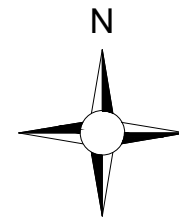
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement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

Drawing Legend

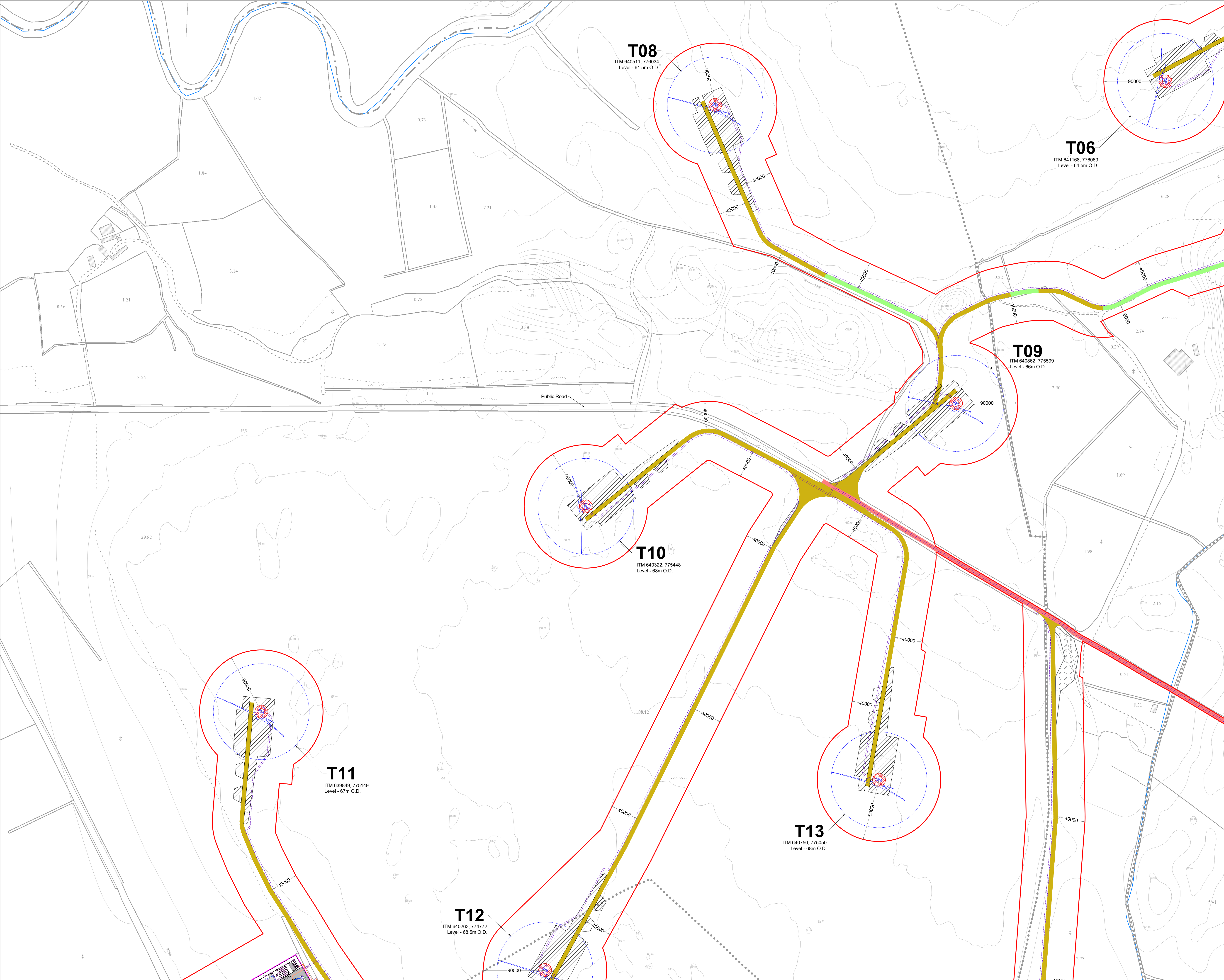
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- Existing Internal Road to be Upgraded
- Proposed Road
- Existing Crossing for Upgrade
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling
- River/Stream
- Lakes



DRAWING TITLE: Site Layout Plan Sheet 2 of 24	
PROJECT TITLE: Coole Wind Farm FI, Co. Westmeath	
DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 15 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022



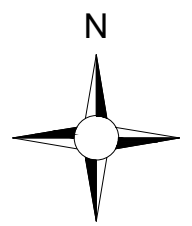
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Drawing Legend

- 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
- Internal Electrical Cabling
- Wind Farm Substation
- River/Stream



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DRAWING TITLE:
**Site Layout Plan
 Sheet 3 of 24**

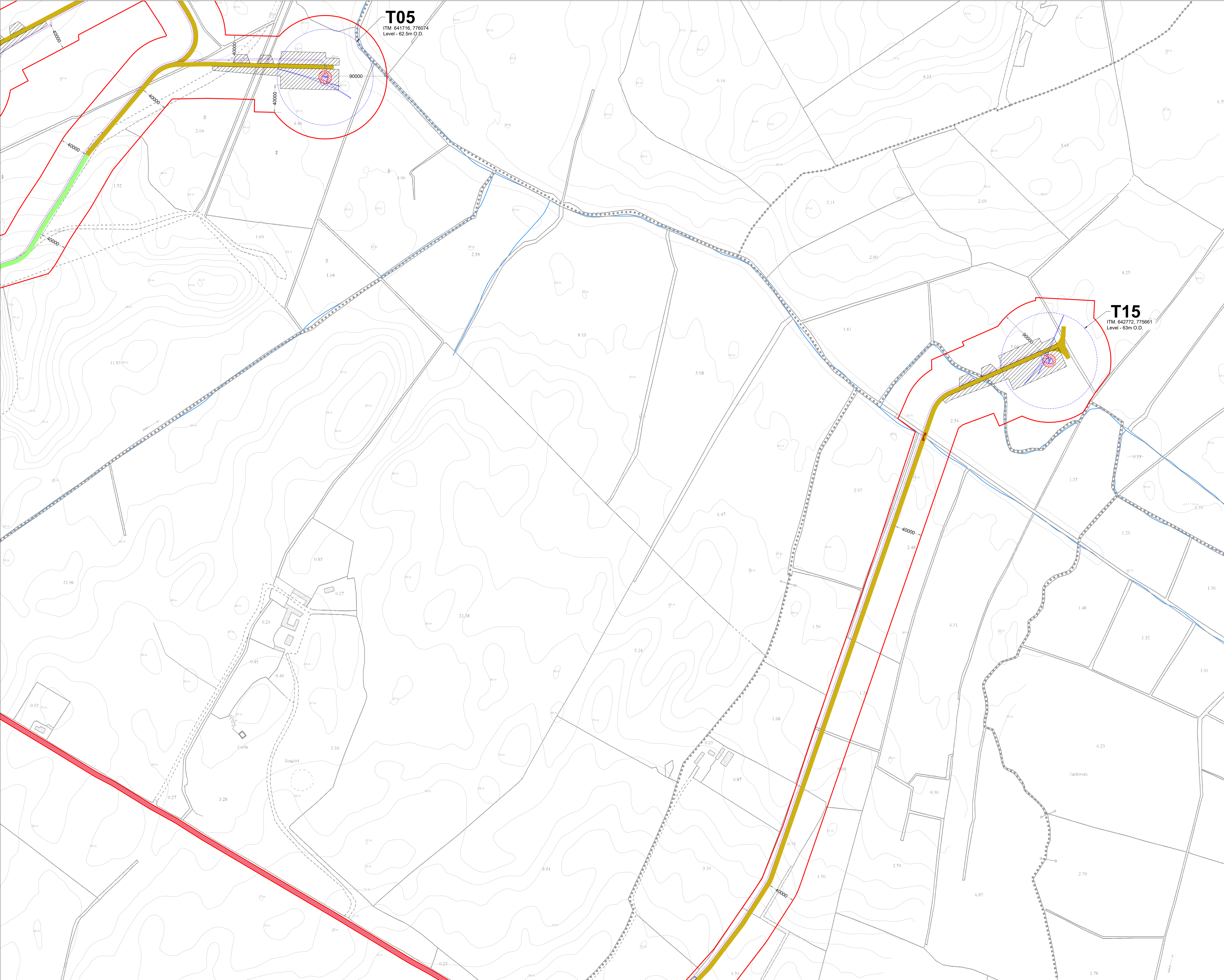
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Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 16 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

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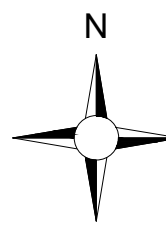
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- Proposed Road
- Proposed New Crossing
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Internal Electrical Cabling
- Wind Farm Substation
- River/Stream

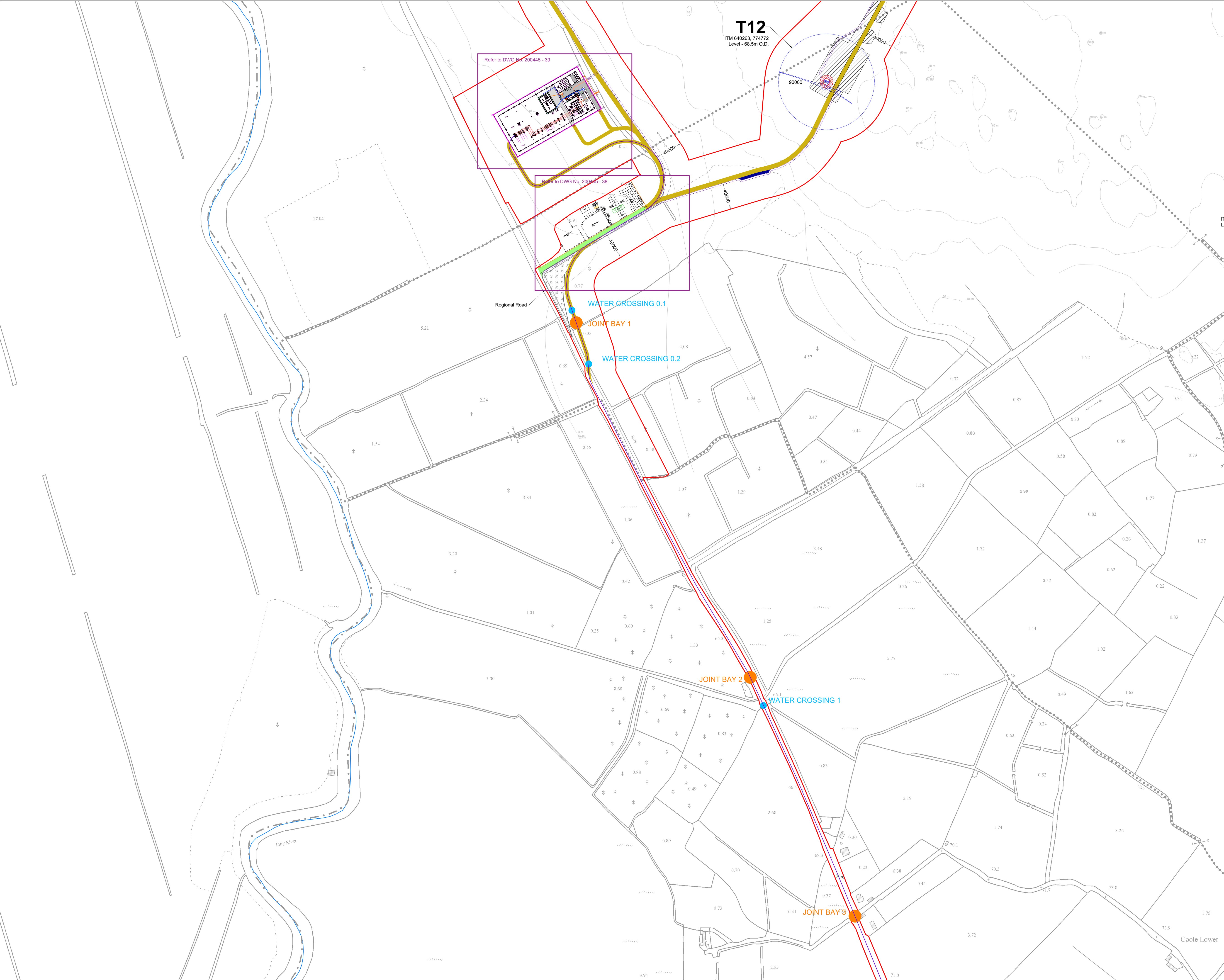


DRAWING TITLE:
**Site Layout Plan
Sheet 4 of 24**

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 17 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

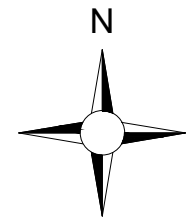
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement 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
- Internal Electrical Cabling
- Grid Connection Route
- Wind Farm Substation
- X Spot Height
- Joint Bay
- Watercrossing
- River/Stream

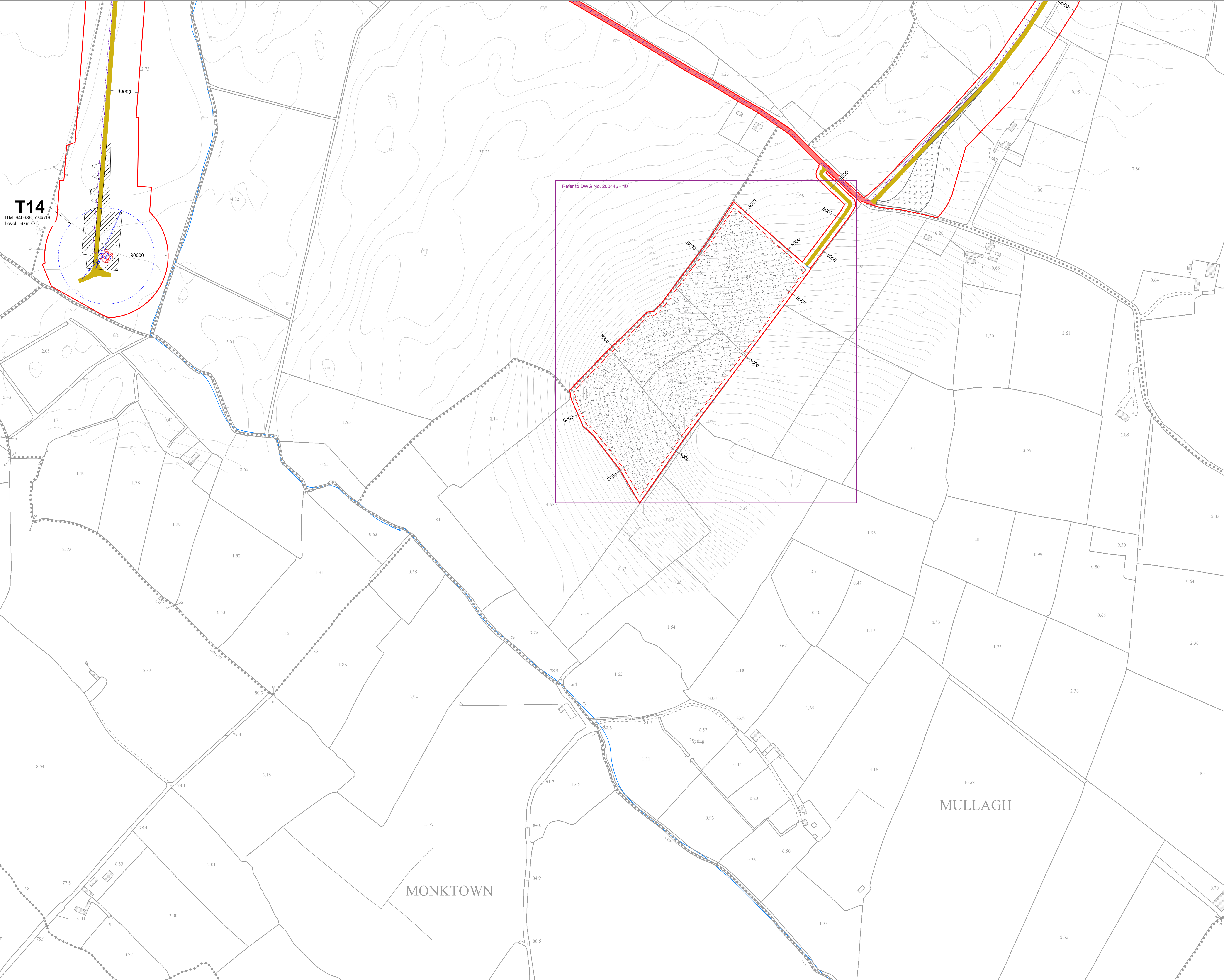


DRAWING TITLE:
**Site Layout Plan
Sheet 5 of 24**

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 18 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

OS SHEET No.:
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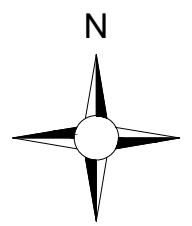


T14
ITM: 640986, 774516
Level - 67m O.D.

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



Site Layout Plan
Sheet 6 of 24

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 19 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

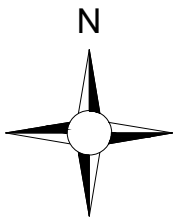
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement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

Drawing Legend

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

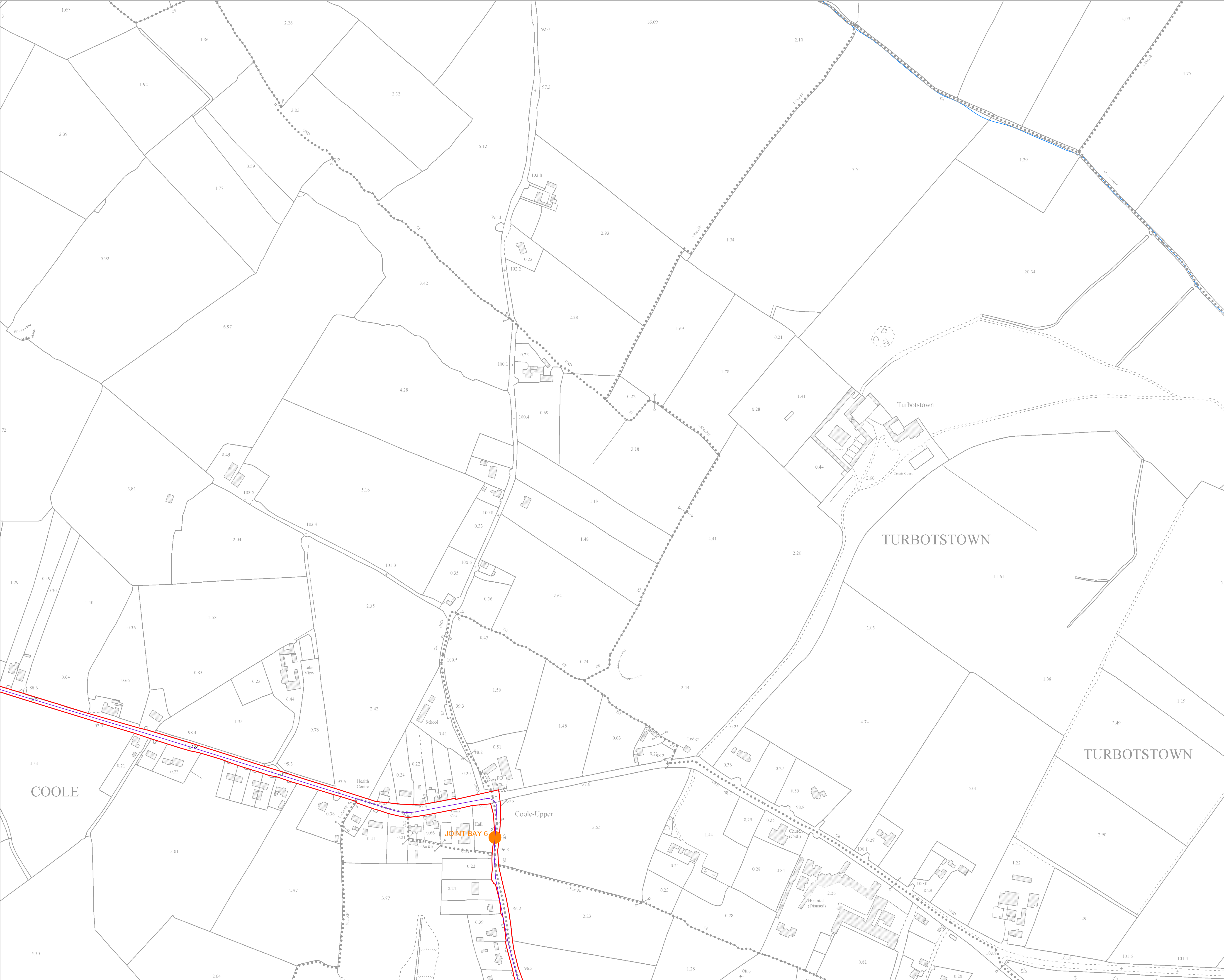


DRAWING TITLE:
**Site Layout Plan
Sheet 7 of 24**

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 20 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

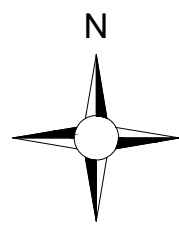
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement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

Drawing Legend

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



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Site Layout Plan
Sheet 8 of 24

Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 21 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

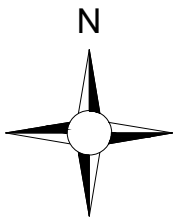
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Drawing Legend

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



DRAWING TITLE:
**Site Layout Plan
Sheet 13 of 24**

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O'Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 26 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

OS SHEET No.:
2004, 2007, 2038, 2239, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2425, 2426, 2427, 2428, 2430, 2494, 2495, 2496, 2562, 2563, 2564, 2565, 2629, 2630, 2631, 2632, 2699, 2700, 2701, 2712, 2716, 2719, 2770, 2771

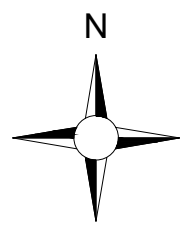
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement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

Drawing Legend

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

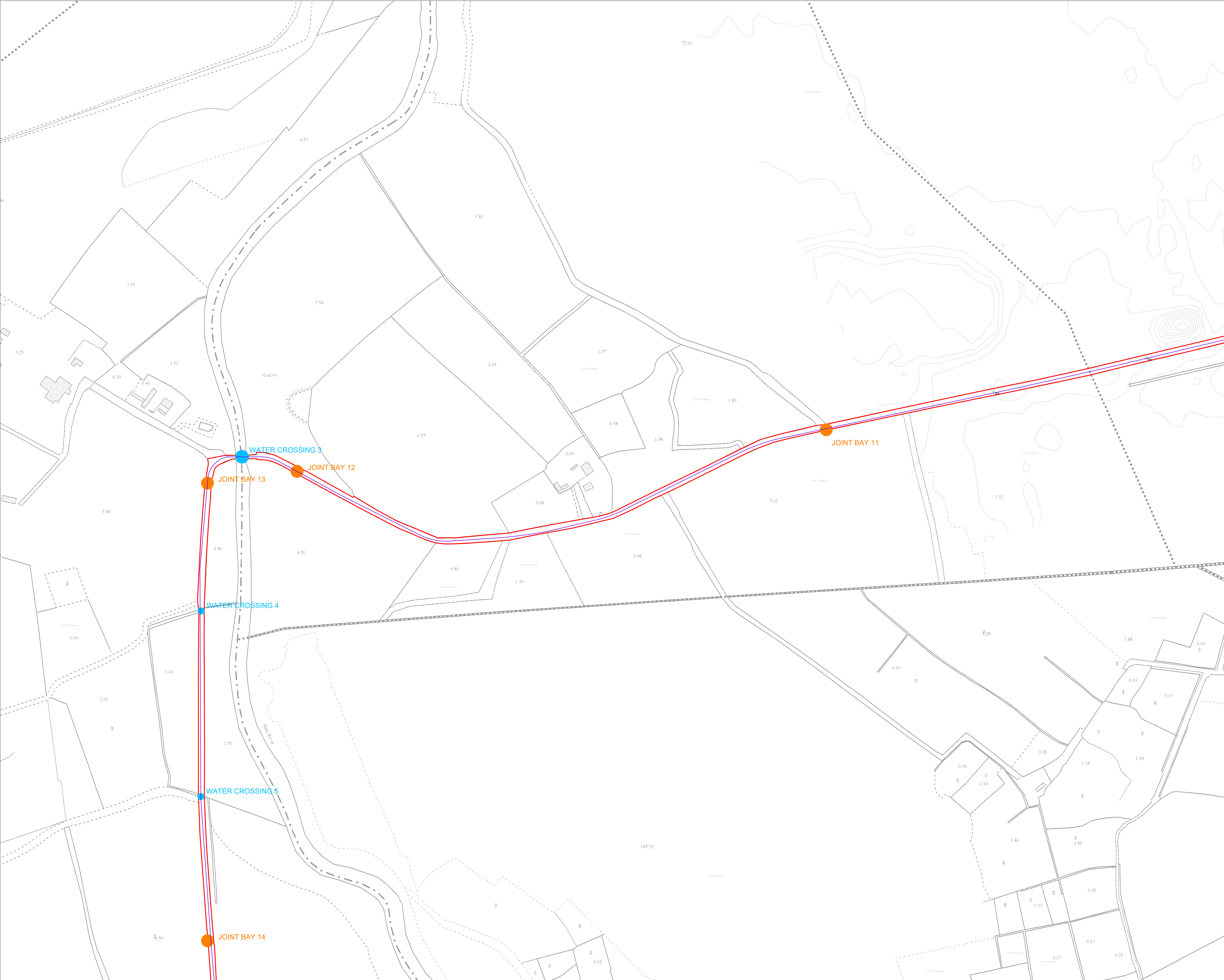


DRAWING TITLE:
**Site Layout Plan
Sheet 14 of 24**

PROJECT TITLE:
Coole Wind Farm FI, Co. Westmeath

DRAWING BY: Joseph O Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 27 FI
SCALE: 1:2,500 @ A1	DATE: 27.10.2022

OS SHEET No.:
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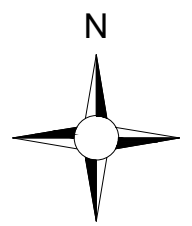


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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
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Drawing Legend

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



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DRAWING TITLE:

Site Layout Plan
Sheet 15 of 24

PROJECT TITLE:

Coole Wind Farm FI, Co. Westmeath

DRAWING BY:

Joseph O Brien

CHECKED BY:

Meabhann Crowe

PROJECT No.:

200445g

DRAWING No.:

200445g - 28 FI

SCALE:

1:2,500 @ A1

DATE:

27.10.2022

OS SHEET No.:

2306, 2307, 2338, 2339, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2425, 2426, 2427, 2428, 2430, 2434, 2435, 2436, 2462, 2563, 2564, 2565, 2629, 2630, 2631, 2632, 2639, 2700, 2701, 2712, 2716, 2719, 2770, 2771

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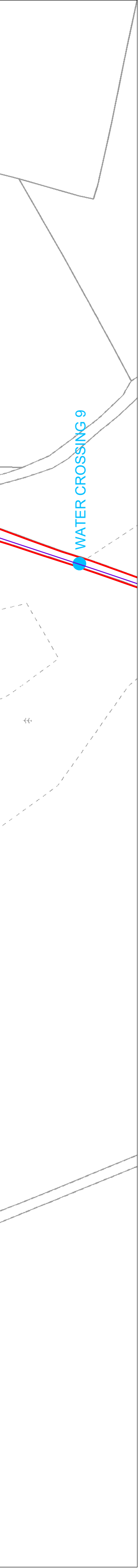
This technical map illustrates a proposed water supply pipeline route. The route is defined by a thick red line with blue and purple parallel lines, connecting five orange circular nodes labeled 'JOINT BAY 14', 'JOINT BAY 15', 'JOINT BAY 16', 'JOINT BAY 17', and 'JOINT BAY 18'. The route crosses a river at 'WATER CROSSING 6', 'WATER CROSSING 7', and 'WATER CROSSING 8'. The map includes property boundaries, contour lines, and various elevation points. A north arrow is located in the upper right corner.

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- This technical map illustrates a proposed water supply pipeline route. The route is defined by a thick red line with blue and purple parallel lines, connecting five orange circular nodes labeled 'JOINT BAY 14', 'JOINT BAY 15', 'JOINT BAY 16', 'JOINT BAY 17', and 'JOINT BAY 18'. The route crosses a river at 'WATER CROSSING 6', 'WATER CROSSING 7', and 'WATER CROSSING 8'. The map includes property boundaries, contour lines, and various elevation points. A north arrow is located in the upper right corner.

The map displays the proposed rail alignment, which is a red line with a blue centerline. The alignment runs from the top left towards the bottom right. Key features include:

- Joint Bay 17:** Indicated by an orange dot on the alignment.
- Water Crossing 9:** Indicated by a blue dot on the alignment.
- Existing Roads:** Shown as solid grey lines.
- Dashed Line:** A dashed grey line runs parallel to the alignment.
- North Arrow:** Located in the top right corner, pointing towards the top right.
- Scale:** A scale bar is located in the top left corner, showing distances in meters (0, 100, 200, 300, 400, 500).

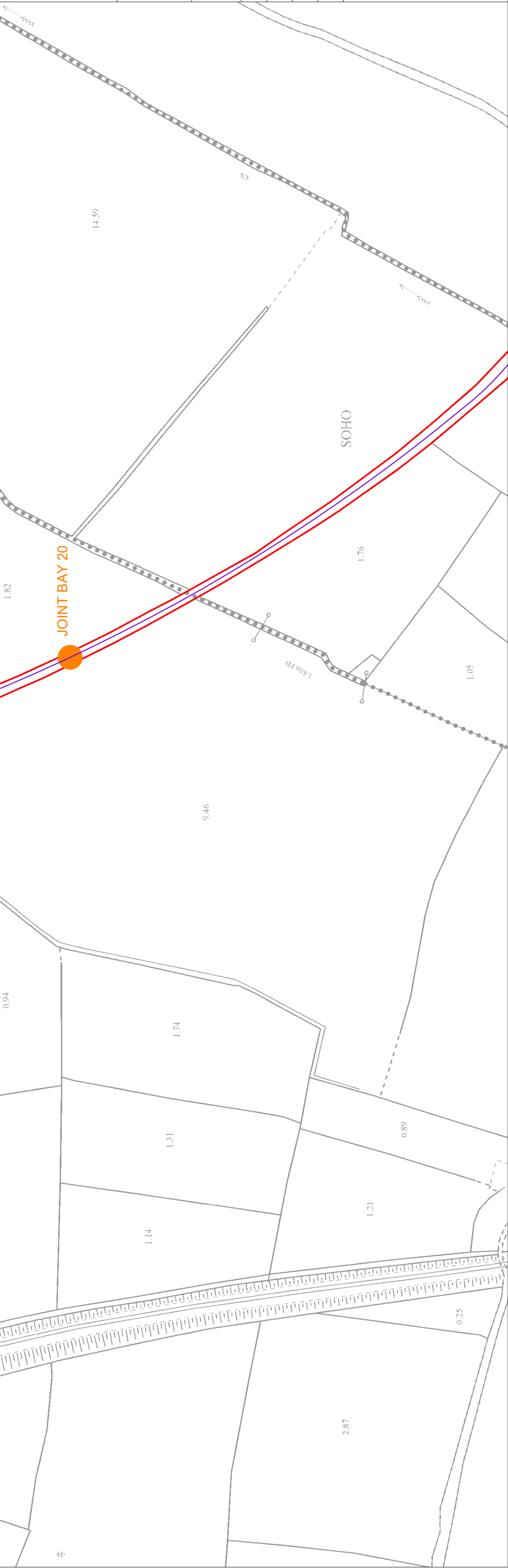
The map shows a study area with a road network and a water body. A dashed line indicates a boundary. Joint Bay 17 is marked with an orange dot and Water Crossing 9 with a blue dot. A scale bar indicates 0 to 100 meters.



The map illustrates a proposed water supply pipeline route. Key features include:

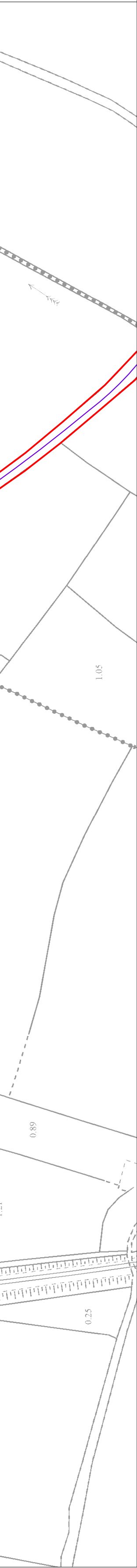
- Proposed Pipeline:** A red line with orange dots for joint bays and blue dots for water crossings.
- Joint Bays:** JOINT BAY 18, JOINT BAY 19, and JOINT BAY 20.
- Water Crossings:** WATER CROSSING 10, WATER CROSSING 11, and WATER CROSSING 12.
- Geographical Features:** Castle Street, Limo River, and SOHO.
- Elevation Points:** Various numerical values are scattered across the map, indicating elevations at different points.

-

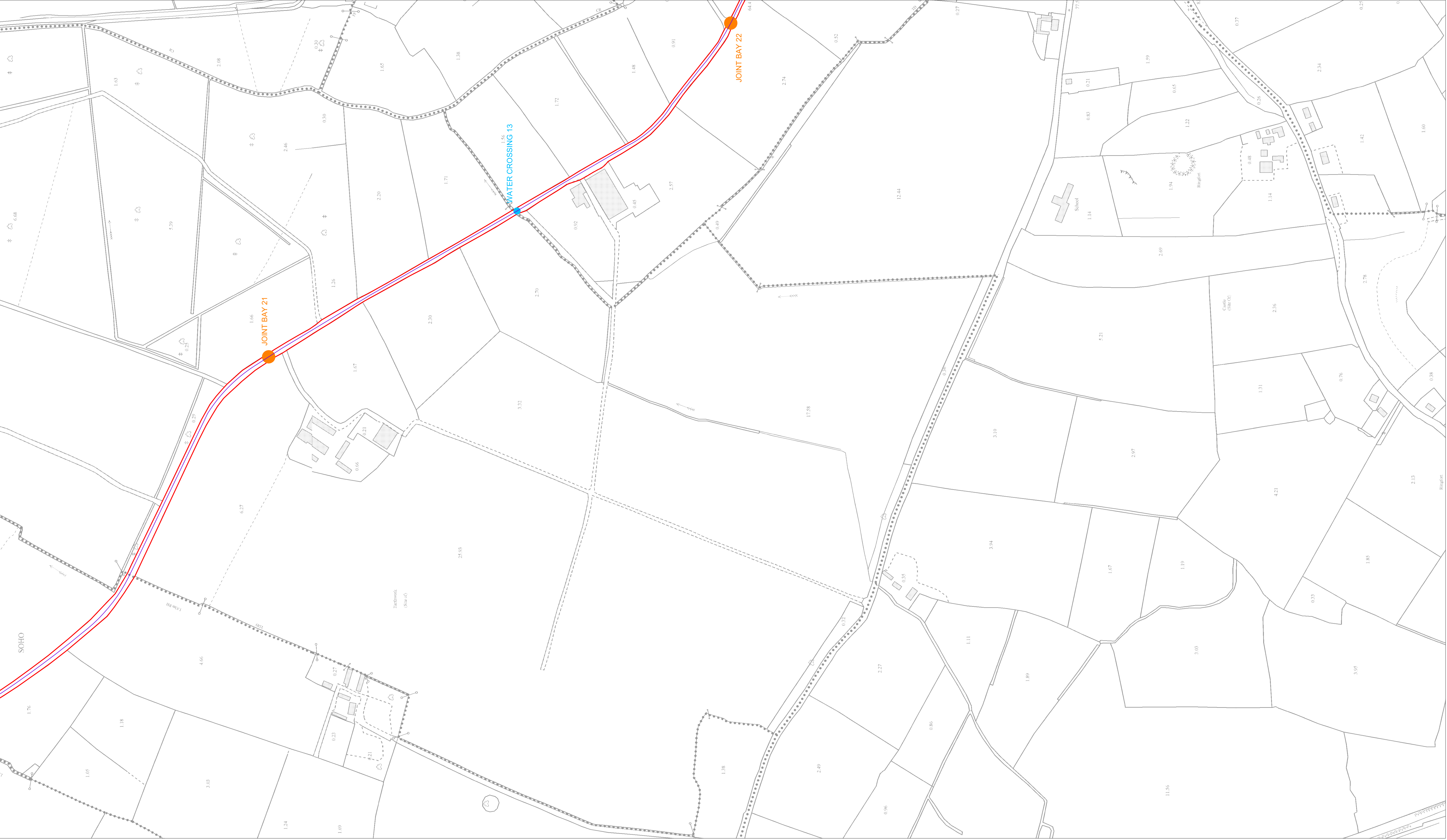
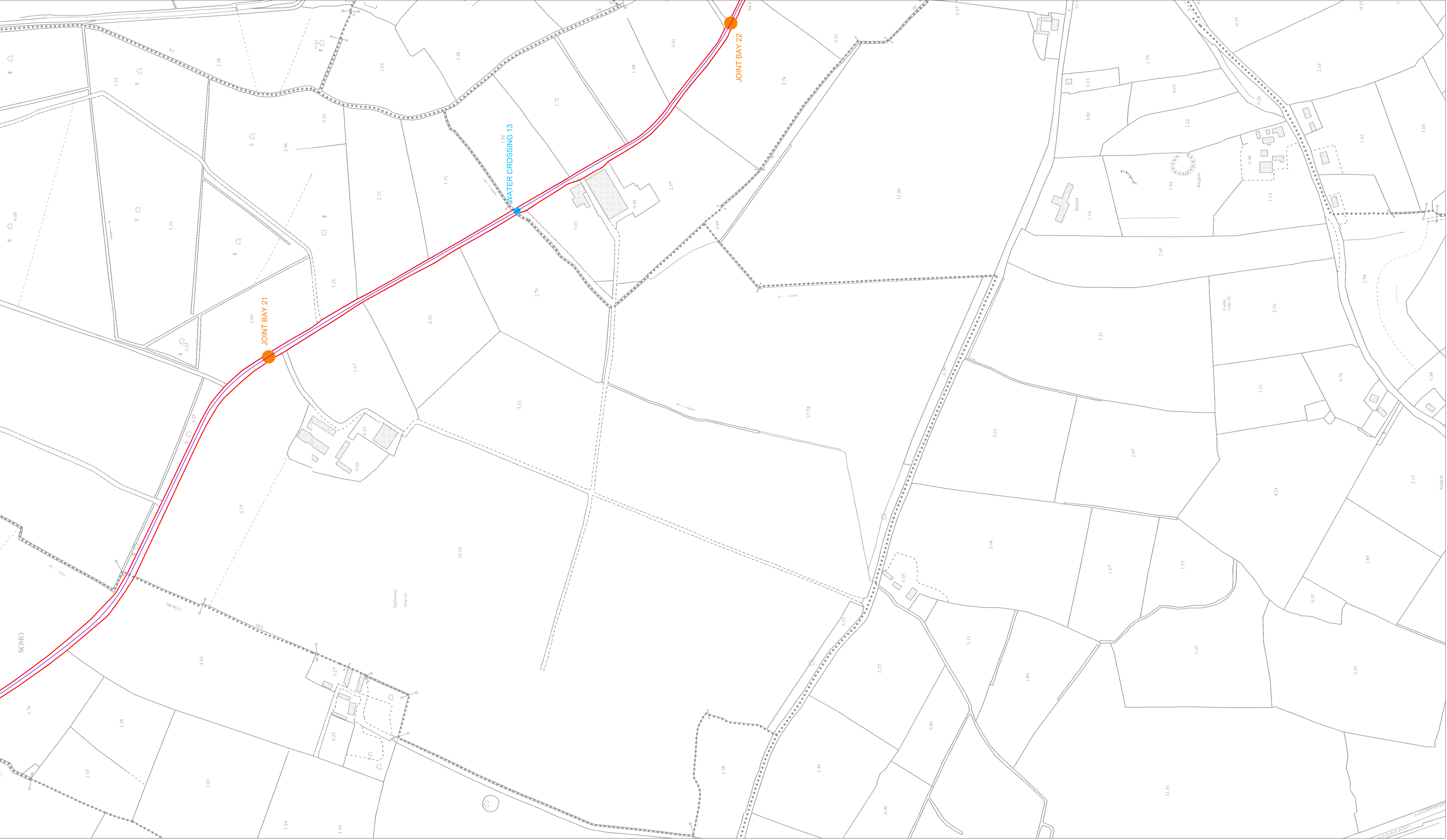


The drawing is a technical road plan. At the top, there is a scale bar labeled "100'". Below it, a road segment runs horizontally from left to right, labeled "SOHO". This road has several junctions and turns. One junction is marked with a small circle and the number "1.76". Another junction further down is marked with a small circle and the number "1.06". A dashed line extends from the horizontal road towards the bottom right corner. On the left side, a road segment is labeled "L8047D" and has a small circle with the number "9.46" next to it. Further down on the left, another road segment is labeled "1.74". Below that, a road segment is labeled "1.31". At the bottom left, a road segment is labeled "1.14". In the center, a large rectangular area is labeled "2.87". To the right of this area, a road segment is labeled "0.25". Further up on the right, a road segment is labeled "0.89". The drawing shows various other road segments, junctions, and surrounding land parcels, all depicted with precise lines and labels.

This is a detailed topographic map of a section of the Soho district in London. The map shows a network of streets, including a prominent diagonal street running from the bottom left towards the top right. The area is characterized by numerous small, irregular shapes representing buildings and structures. Elevation contours are marked with numerical values such as 1.76, 1.05, 0.89, 1.21, 0.25, and 2.87. A dashed line runs diagonally across the middle of the map, and a solid line runs parallel to it. The word 'SOHO' is written vertically in the center of the map. The map is oriented with North at the top.

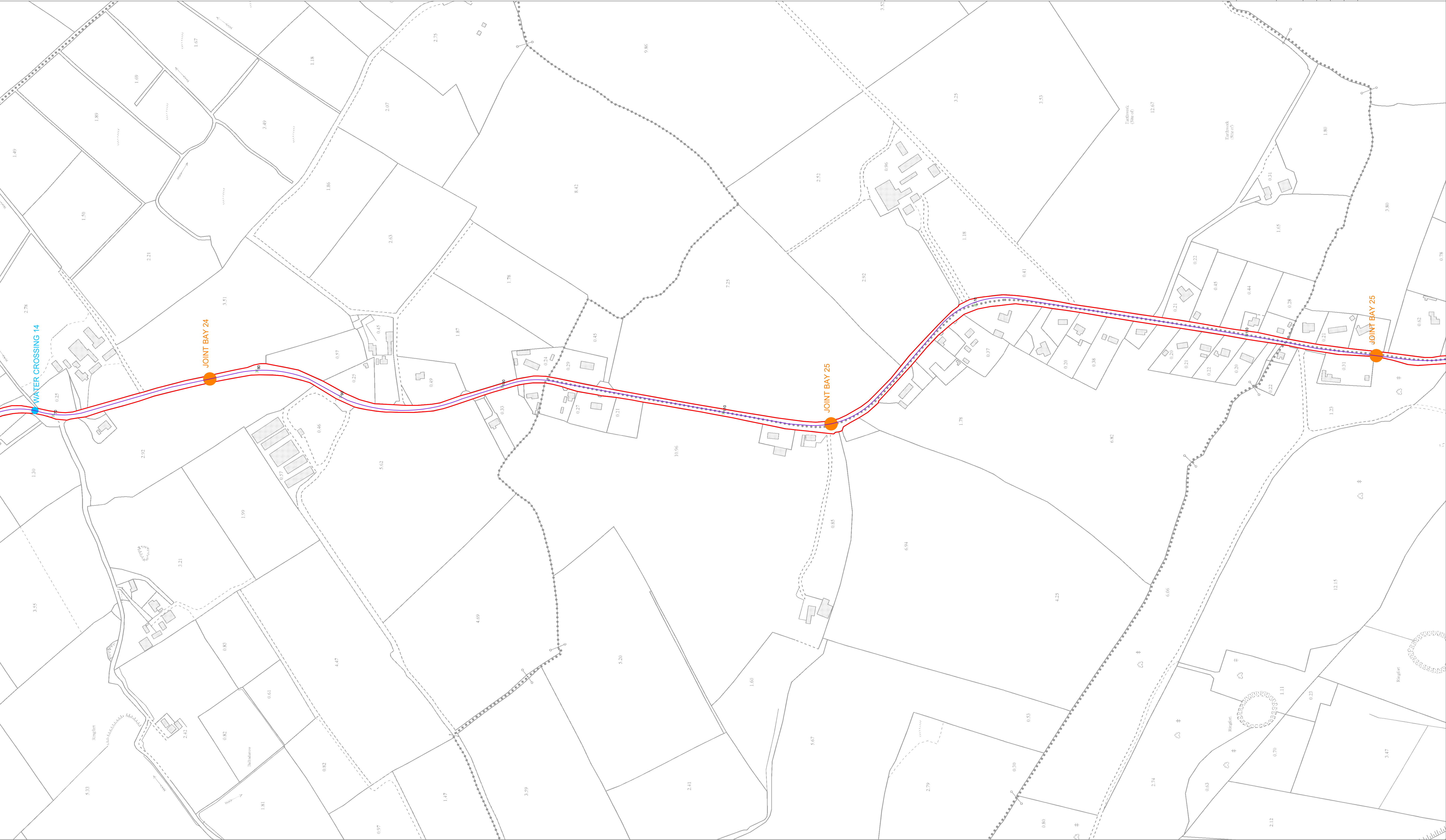


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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
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9. Exact location of cable/joint bay in the road corridor to be subject to ESB specifications and agreement with Westmeath County Council



Drawing Legend

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

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DRAWING TITLE:

Site Layout Plan
Sheet 20 of 24

PROJECT TITLE:

Coolle Wind Farm FI, Co. Westmeath

DRAWING BY:

Joseph O'Brien

CHECKED BY:

Meabhann Crowe

PROJECT NO:

200445g - 33 FI

DRAWING NO:

200445g - 33 FI

SCALE:

1:2,500 @ A1

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OS SHEET NO:

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-

-



This technical site plan illustrates a proposed road project. The road alignment is shown as a series of connected segments, marked by red and blue lines. Key features along the route include:

- JOINT BAY 25**: The starting point of the road segment on the left.
- JOINT BAY 26**: A junction point marked with an orange dot.
- WATER CROSSING 15**: A crossing point marked with a blue dot, located near Ballynagall Lake.
- JOINT BAY 27**: The ending point of the road segment on the right.

The plan also shows the surrounding landscape, including land parcels, buildings, and a large body of water labeled "Ballynagall Lake". Numerous numerical values are scattered throughout the plan, likely representing elevations or distances. A north arrow is located in the bottom right corner.

This technical site plan illustrates a proposed road project. The road alignment is shown as a series of connected segments, marked by red and blue lines. Key features include:

- JOINT BAY 25**: The starting point of the road segment on the left.
- JOINT BAY 26**: A junction point along the road alignment.
- WATER CROSSING 15**: A crossing point over Ballynagall Lake.
- JOINT BAY 27**: The ending point of the road segment on the right.

The plan also shows the surrounding landscape, including Ballynagall Lake, various land parcels with building footprints, and a north arrow in the bottom right corner. Numerous numerical values are scattered throughout the plan, likely representing elevations or distances.

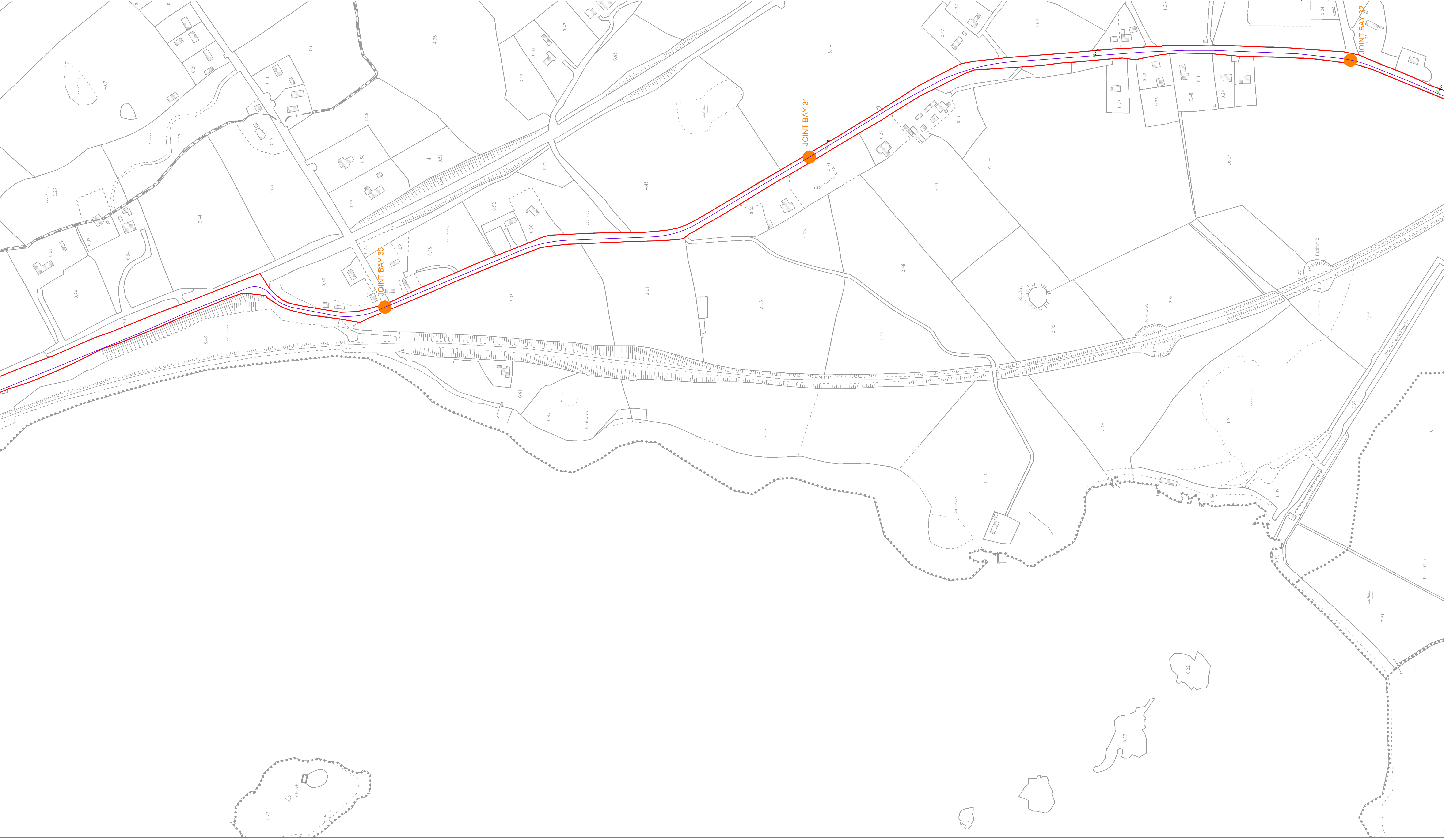
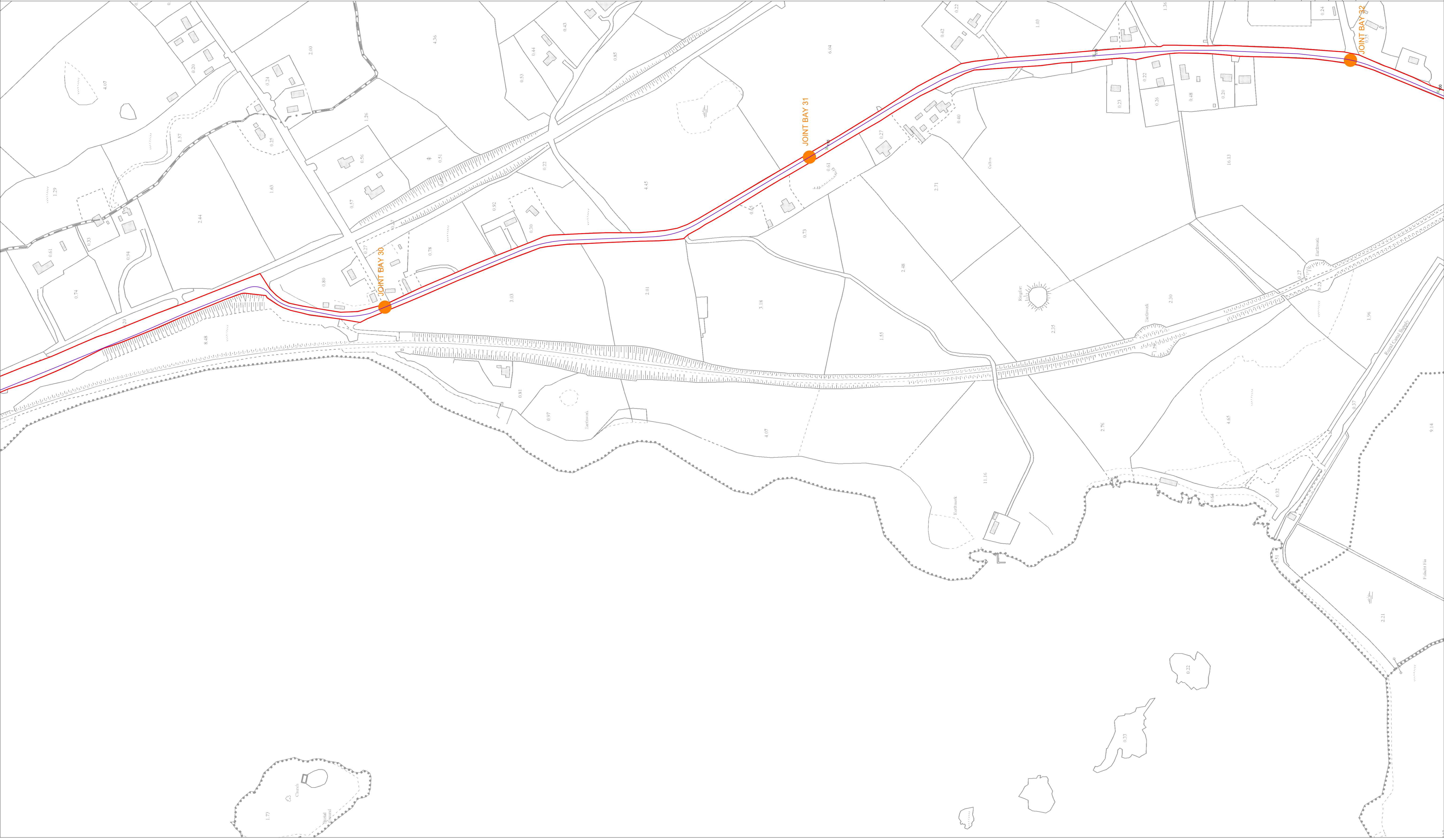


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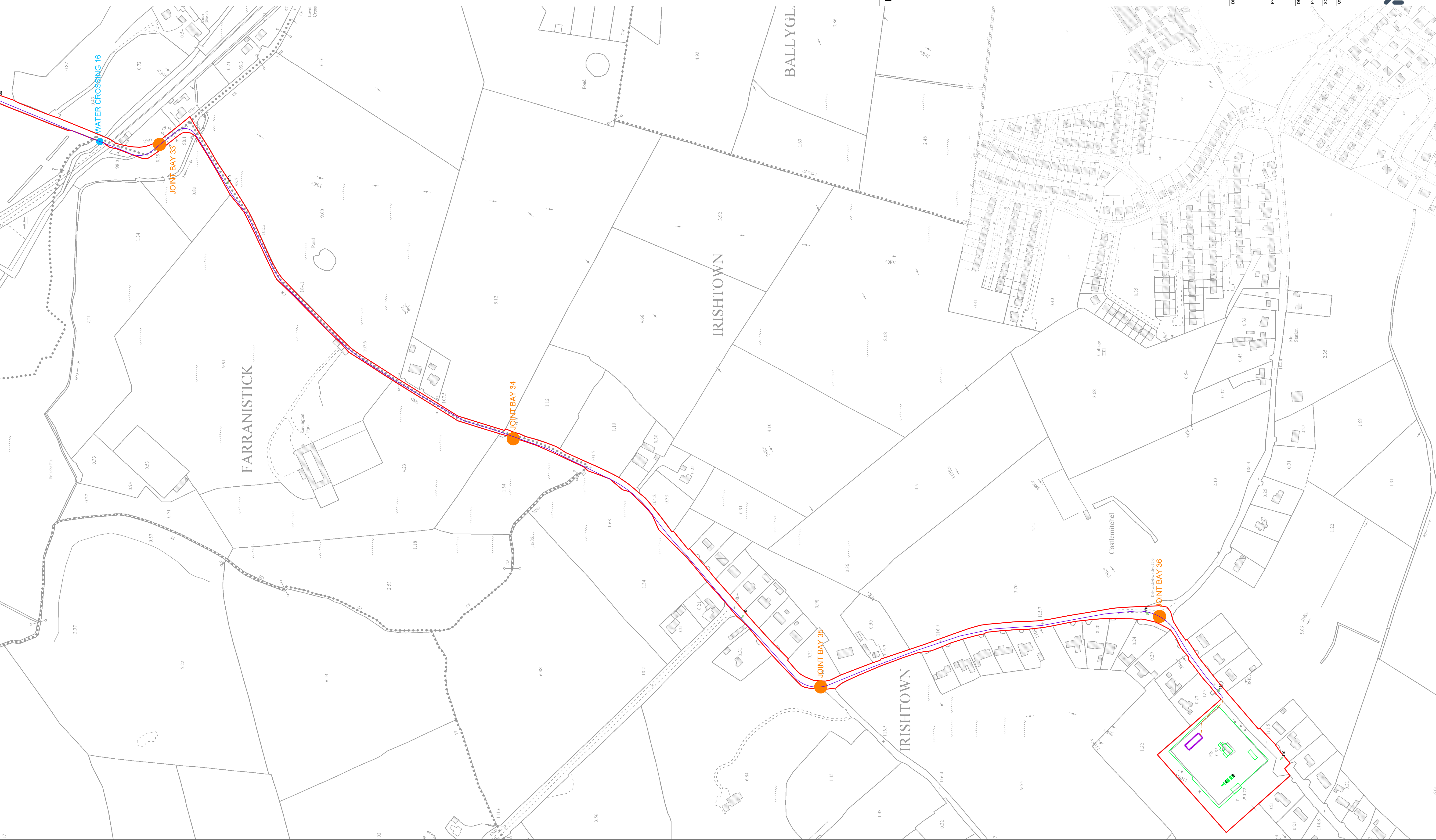
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Drawing Legend

- Planning Application Boundary
- Grid Connection Route
- Proposed Cable Alteration
- Existing Mullingar Substation
- Spot Height
- Joint Bay
- Watercrossing

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DRAWING TITLE:

**Site Layout Plan
Sheet 24 of 24**

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DRAWING BY: **Joseph O'Brien**

CHECKED BY: **Meabhann Crowe**

PROJECT No: **200445g**

DRAWING No: **200445g - 37 FI**

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

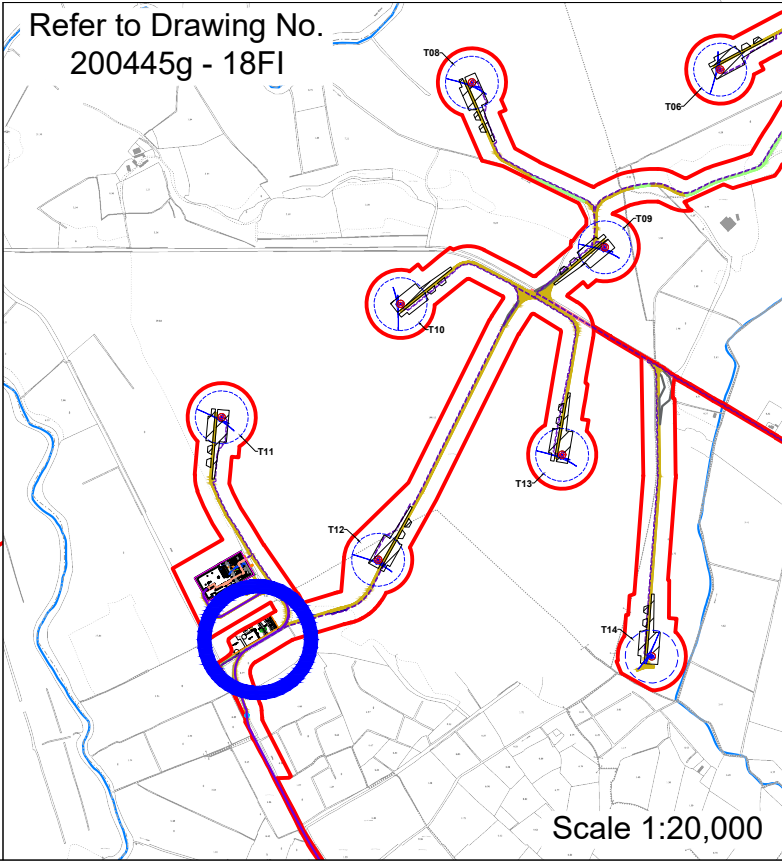
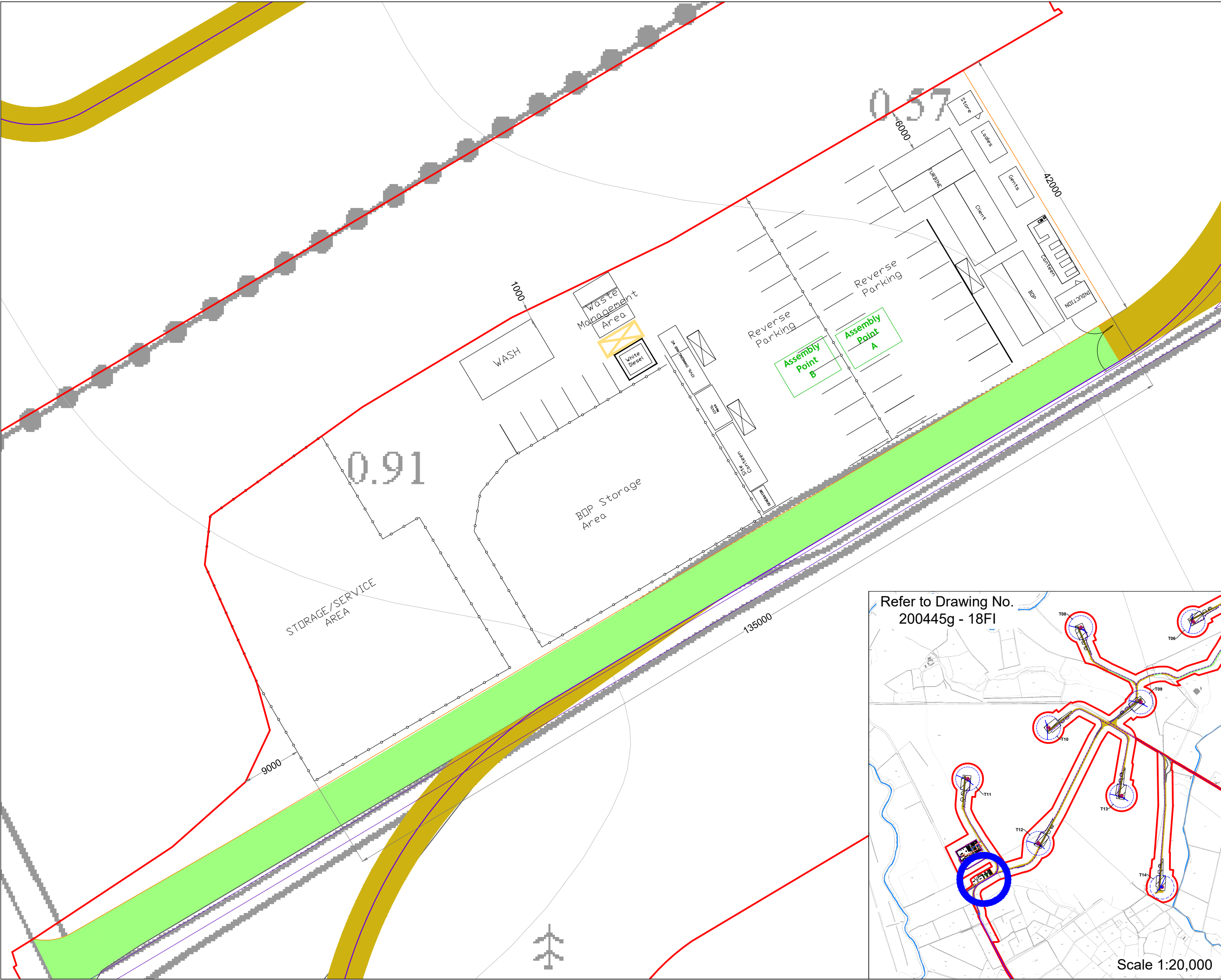
DATE: **27.10.2022**

OS SHEET No: **200445g - 37 FI**

200445g - 37 FI



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Ireland H91 VW84
+353 (0) 91 735611
email: info@www.mkoireland.ie
Website: www.mkoireland.ie



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

DRAWING TITLE: **Temporary Construction Compound**

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

DRAWING BY: Joseph O'Brien	CHECKED BY: Meabhann Crowe
PROJECT No.: 200445g	DRAWING No.: 200445g - 38 FI
SCALE: 1:500 @A3	DATE: 27.10.2022

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Website: www.mkofireland.ie



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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.



	Planning Application Boundary
	Proposed Road
	Internal Electrical Cabling
	Grid Connection Route



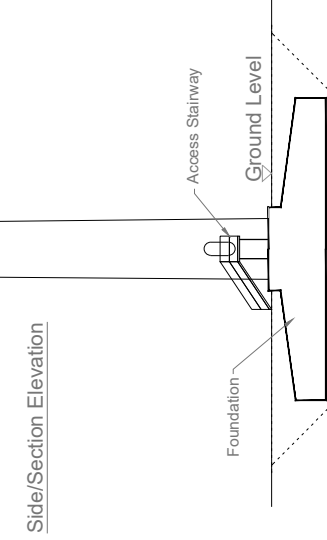
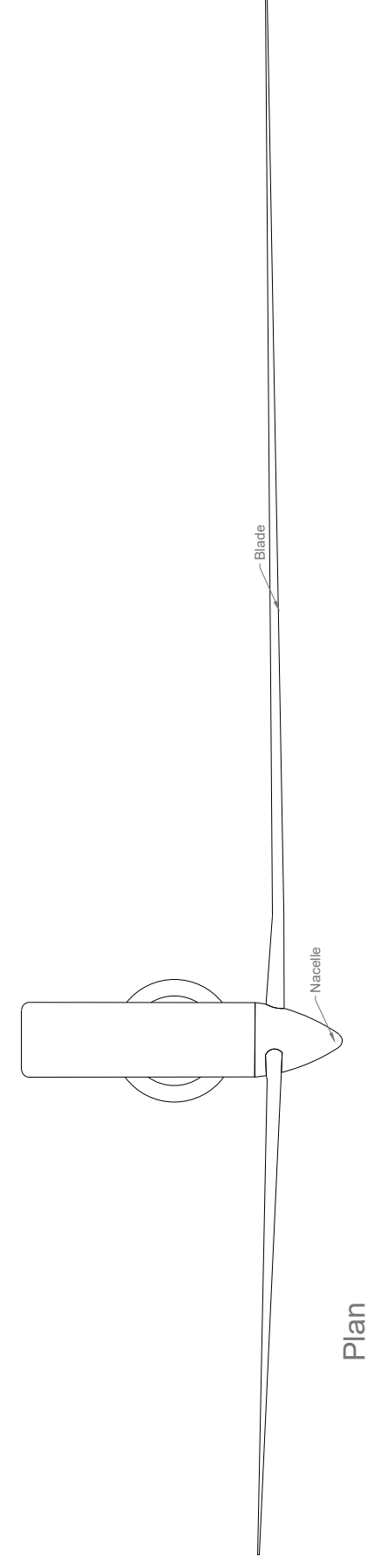
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PROJECT TITLE:	
Coole Wind Farm Fl, Co. Westmeath	
DRAWING BY:	CHECKED BY:
Joseph O'Brien	Meabhann Crowe
PROJECT No.:	DRAWING No.:
200445g	200445g - 39 Fl
SCALE:	DATE:
1:500 @A3	27.10.2022



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Drawing Notes

1. Proposed wind turbines to have a maximum ground to blade tip height of 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.
4. Turbine foundation diameter may vary.
5. Ground level represents the top of turbine foundation.

3 TITLE: Wind Turbine Range Elevations & Plan

PROJECT TITLE:

Coole Wind Farm Fl, Co. Westmeath

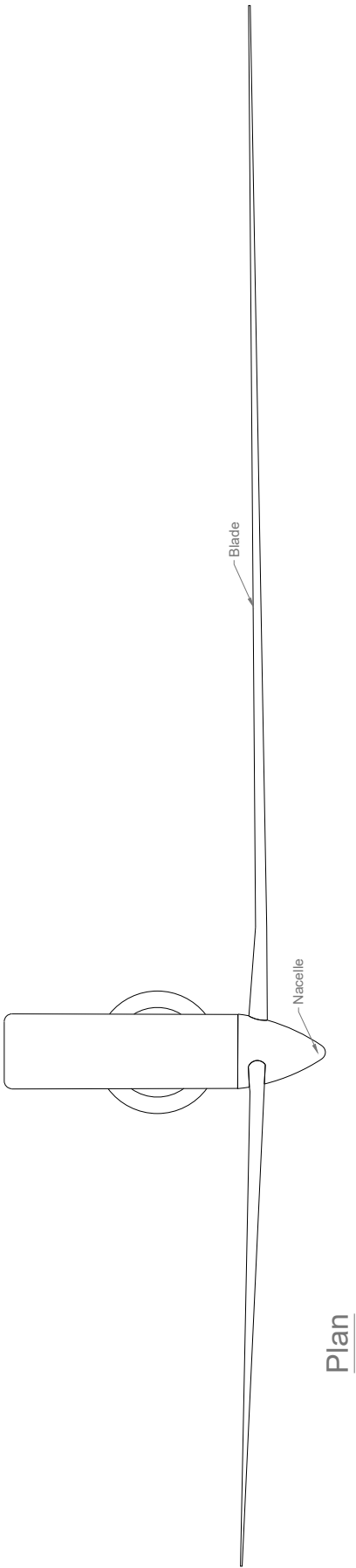
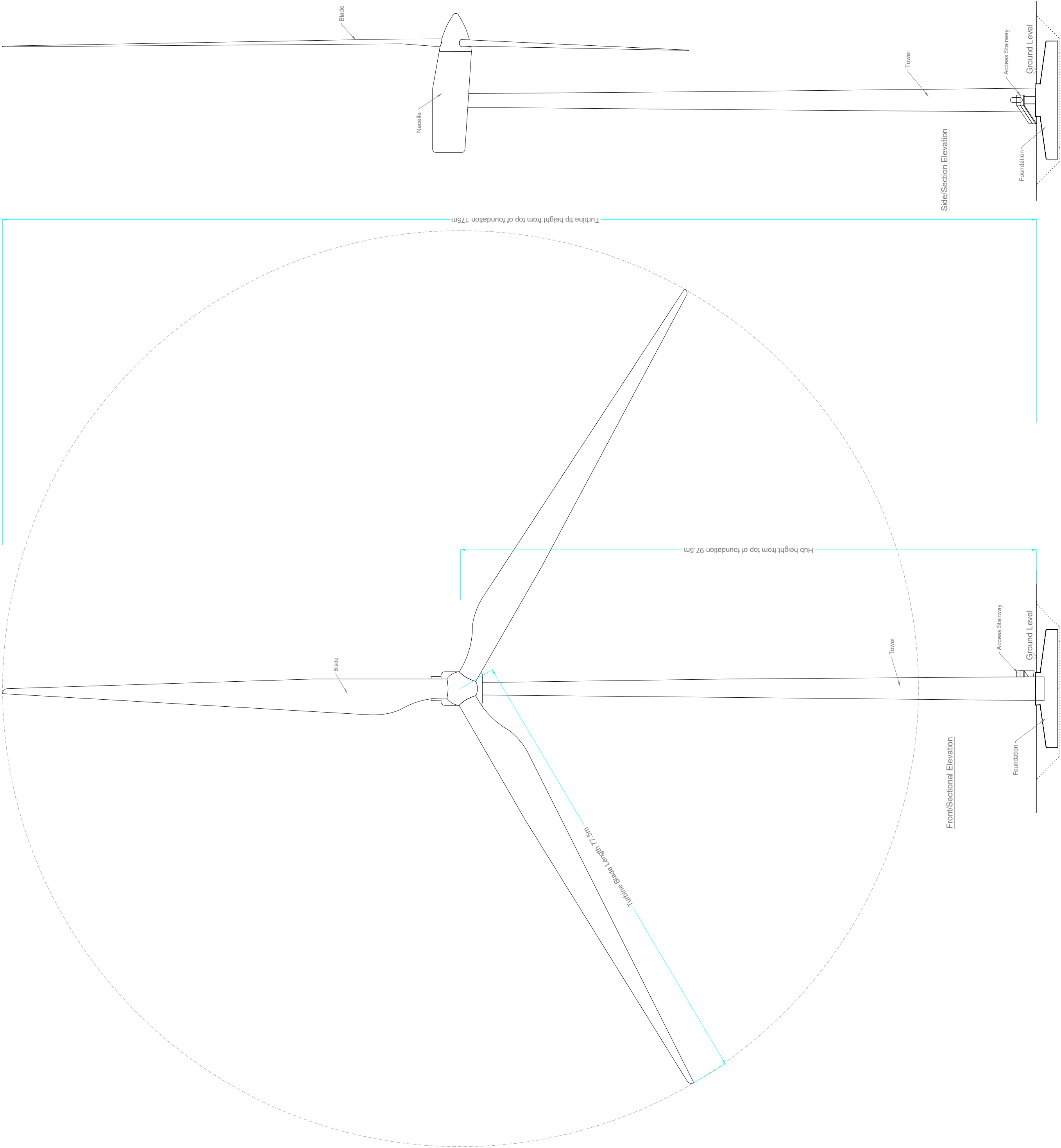
DRAWING BY:
Joseph O'Brien

PROJECT No.: **200445g**

SCALE: 1:500 @A1



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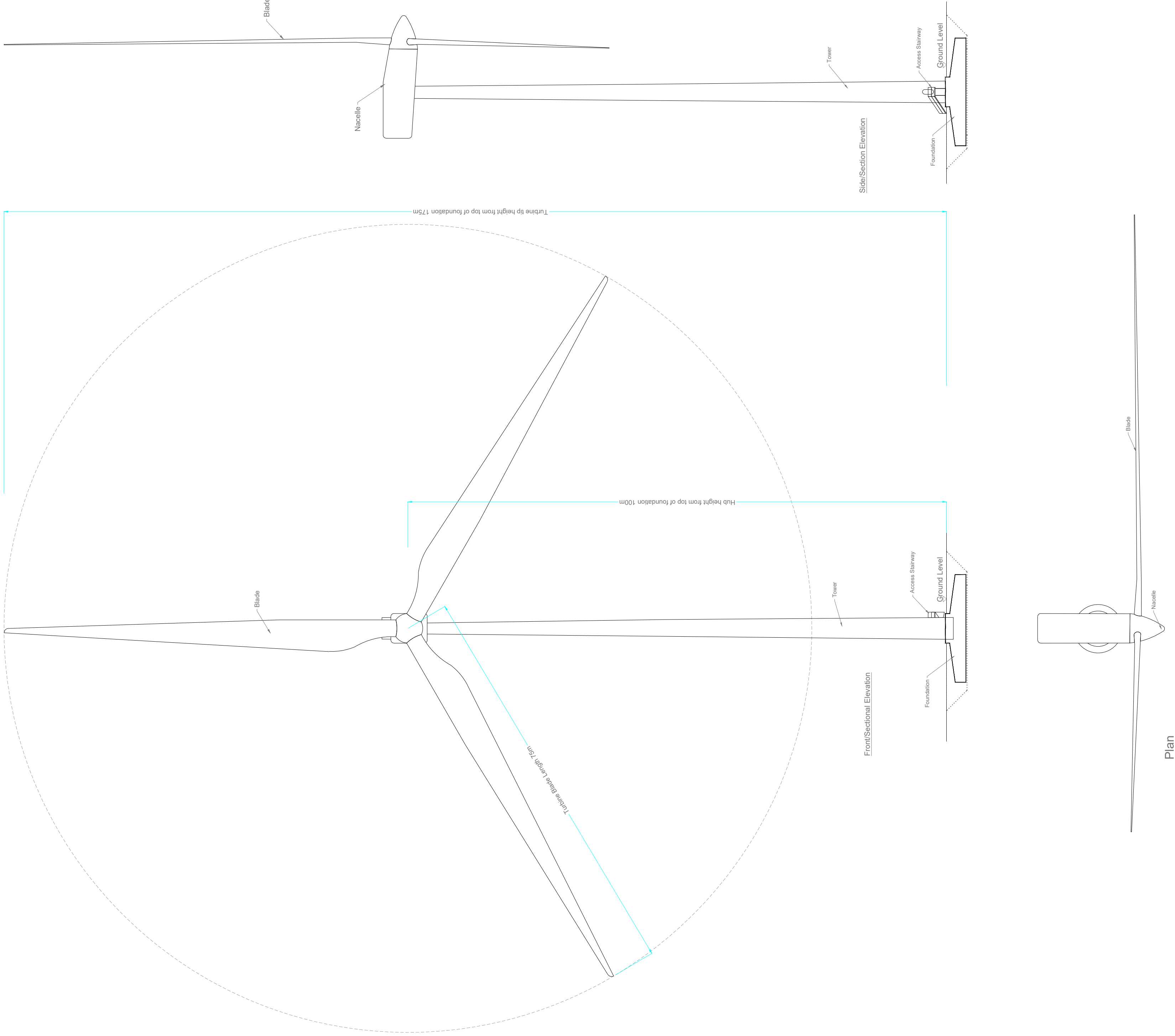


Plan

Drawing Notes

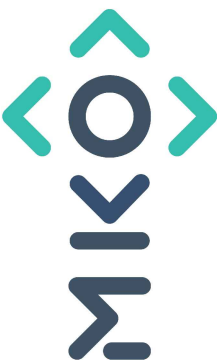
1. Proposed wind turbines to have a maximum ground to blade tip height of 175m.
2. Exact make and model of the turbine to be dictated by a competitive tender process.
3. Installed wind turbine not to exceed maximum size envelope set out above in any blade length and hub-height configuration.
4. Turbine foundation diameter may vary.
5. Ground level represents the top of turbine foundation.

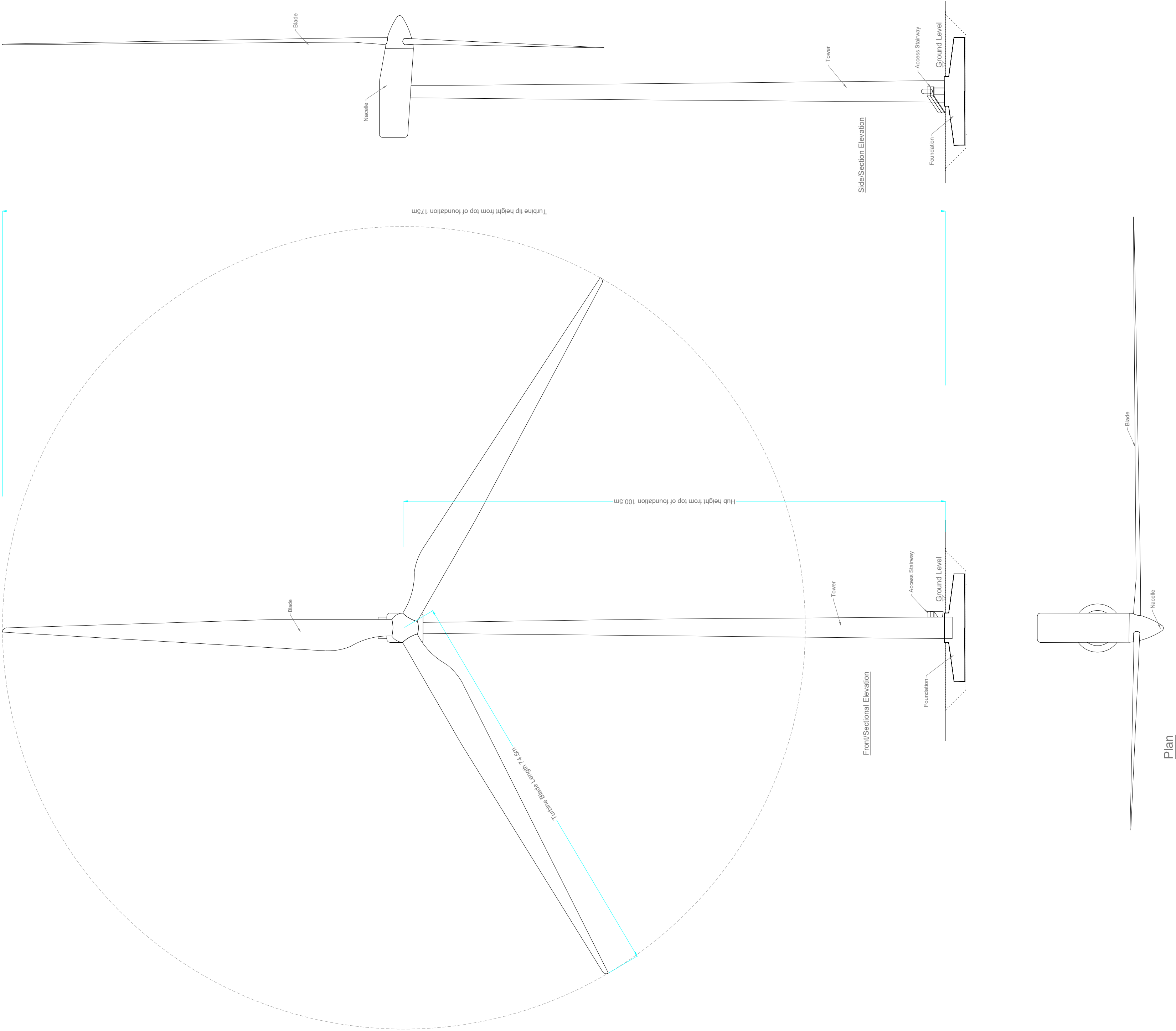
DRAWING TITLE		97.5m hub and 77.5m blade Wind Turbine Elevations & Plan	
PROJECT TITLE:		Coole Wind Farm Fl, Co. Westmeath	
DRAWING BY:	Joseph O'Brien	CHECKED BY:	Meabhann Crowe
PROJECT NO:	200445g	DRAWING NO:	200445g -42B Fl
SCALE:	1:500 @A1	DATE:	27.10.2022
MKO		MKO	
		Tum Road, Galway Ireland, H91 VW84 +353 (0) 91 759611 email: info@www.mkoireland.ie Website: www.mkoireland.ie	



Drawing Notes

- Proposed wind turbines to have a maximum ground to blade tip height of 175m.
- Exact make and model of the turbine to be dictated by a competitive tender process.
- Installed wind turbine not to exceed maximum size envelope set out above in any blade length and hub-height configuration.
- Turbine foundation diameter may vary.
- Ground level represents the top of turbine foundation.

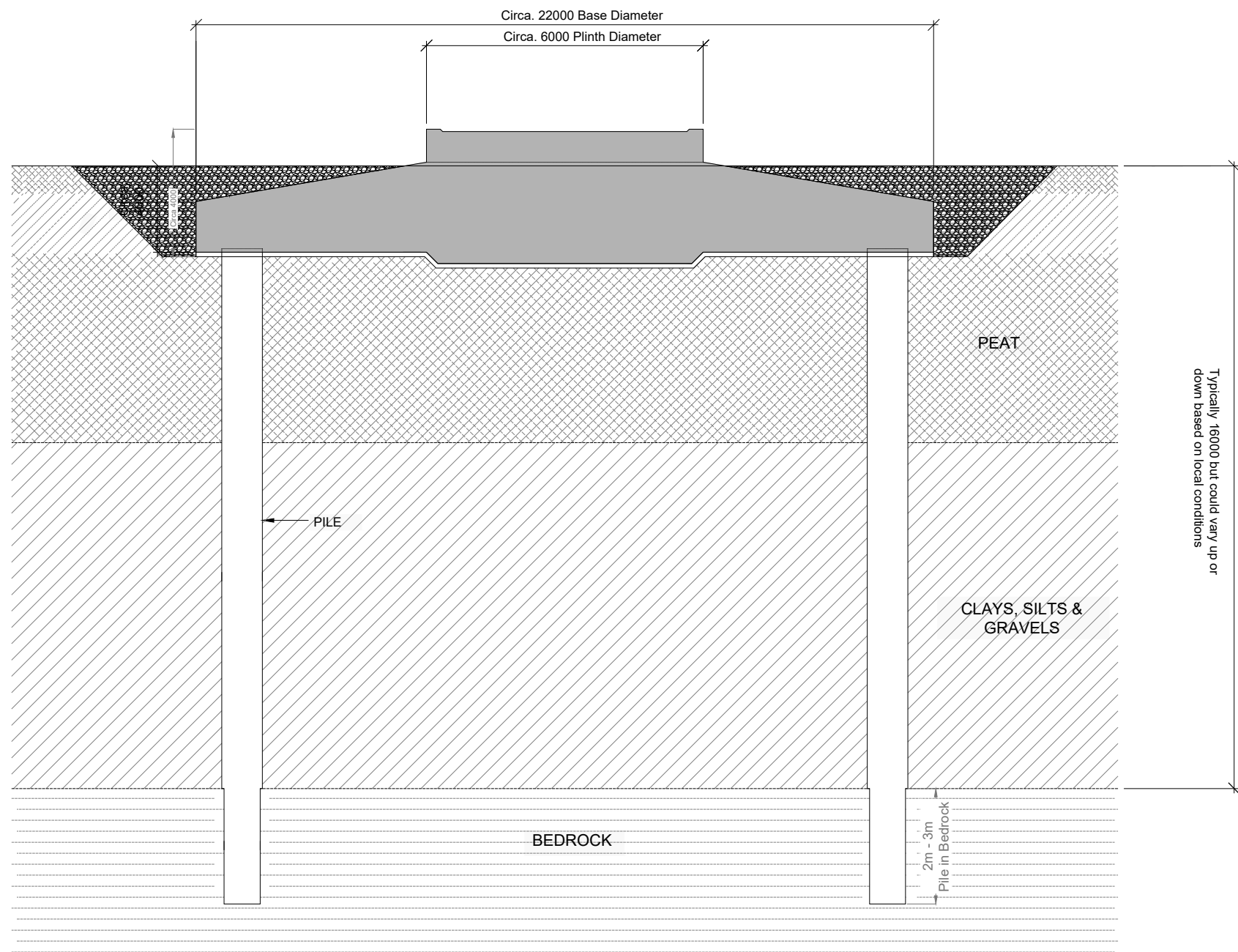
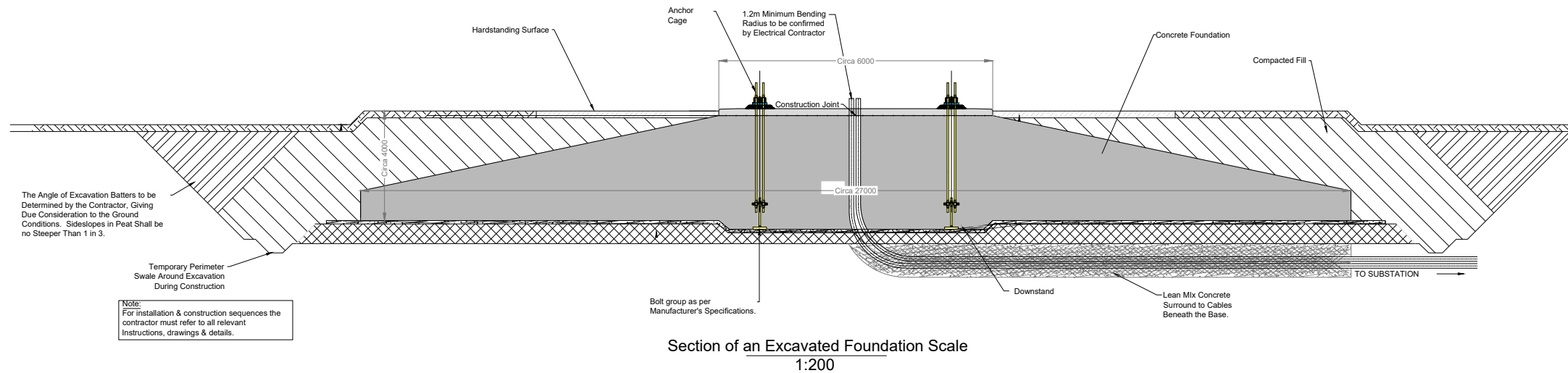
DRAWING TITLE		100m hub and 75m blade Wind Turbine Elevations & Plan	
PROJECT TITLE:		Coole Wind Farm FI, Co. Westmeath	
DRAWING BY:	Joseph O'Brien	CHECKED BY:	Meabhann Crowe
PROJECT NO:	200445g	DRAWING NO:	200445g -42C FI
SCALE:	1:500 @A1	DATE:	27.10.2022
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Drawing Notes

- Proposed wind turbines to have a maximum ground to blade tip height of 175m.
- Exact make and model of the turbine to be dictated by a competitive tender process.
- Installed wind turbine not to exceed maximum size envelope set out above in any blade length and hub-height configuration.
- Turbine foundation diameter may vary.
- Ground level represents the top of turbine foundation.

DRAWING TITLE		100.5m hub and 74.5m blade Wind Turbine Elevations & Plan	
PROJECT TITLE:		Coole Wind Farm FI, Co. Westmeath	
DRAWING BY:	Joseph O'Brien	CHECKED BY:	Meabhann Crowe
PROJECT NO:	200445g	DRAWING NO:	200445g -42D FI
SCALE:	1:500 @A1	DATE:	27.10.2022
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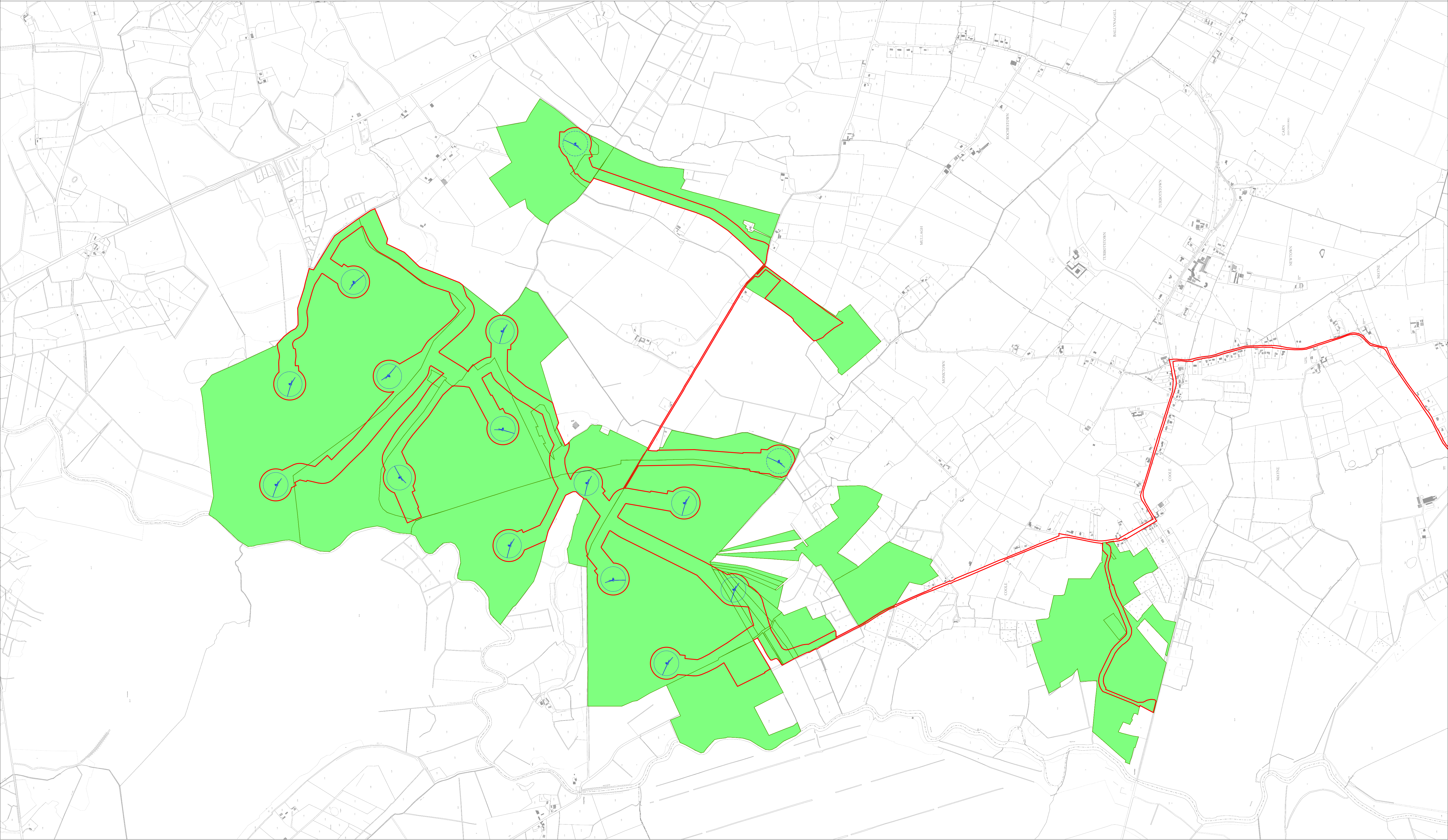
Drawing Notes

- Bedrock depth ranges from 8.7m to 16.9m
- Details/dimensions are provided for indicative purposes and will be subject to detailed design by the appointed contractor
- Piles are typically 900 to 1200mm diameter, reinforced concrete installed by bored or continuous flight auger methods and are typically socketed 2 to 3m into competent bedrock
- Excavated material will be placed/spread locally alongside the excavations of the infrastructure elements or where required removed to an appropriately licensed facility

DRAWING TITLE: Turbine Foundation Standard Detail	
PROJECT TITLE: Coole Wind Farm FI, Co. Westmeath	
DRAWING BY: Joseph O'Brien	CHECKED BY: Meabhann Crowe
PROJECT No: 200445g	DRAWING No: 200445g - 43 FI
SCALE: 1:200 @ A3	DATE: 27.10.2022
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie	

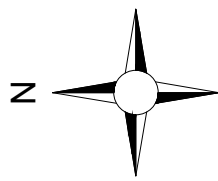
Project Design Drawing Notes

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2. Drawings not to be used for construction/contract conditions.
3. Copyright: all rights reserved. No part herewith may be copied or reproduced partially or wholly in any form whatsoever without the prior notice of the copyright owner McCarthy Keville O'Sullivan.
4. Do not scale off this drawing. Figured metric dimensions only should be taken off this drawing.
5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
6. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon this drawing.
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
- Turbine Sweep Area
- Optional Lands



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DRAWING TITLE:

Peatland Optional Lands

PROJECT TITLE:

Cooile Wind Farm FI, Co. Westmeath

DRAWING BY:

Joseph O'Brien

CHECKED BY:

Meabhann Crowe

PROJECT NO:

200445g - 59 FI

SCALE:

1:10,000 @ A1

DATE:

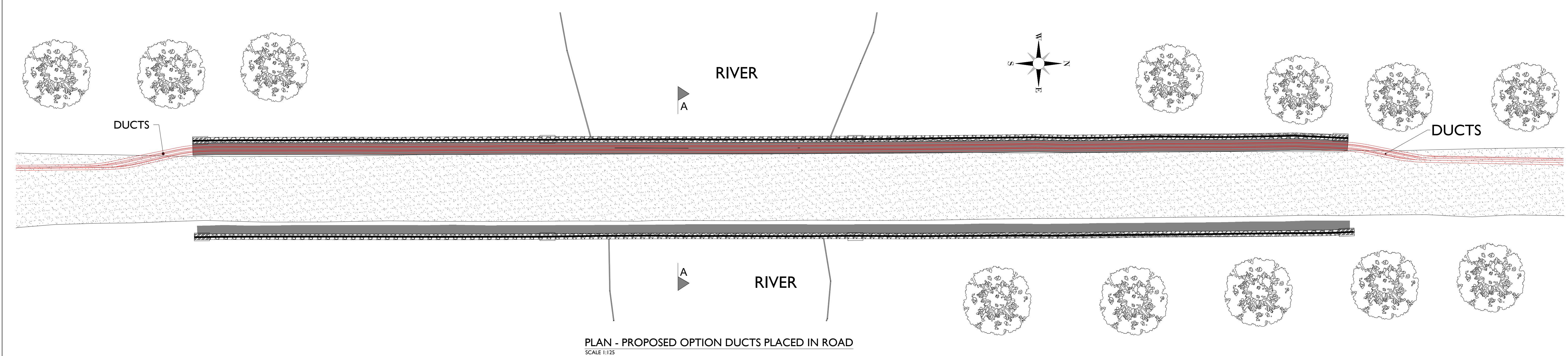
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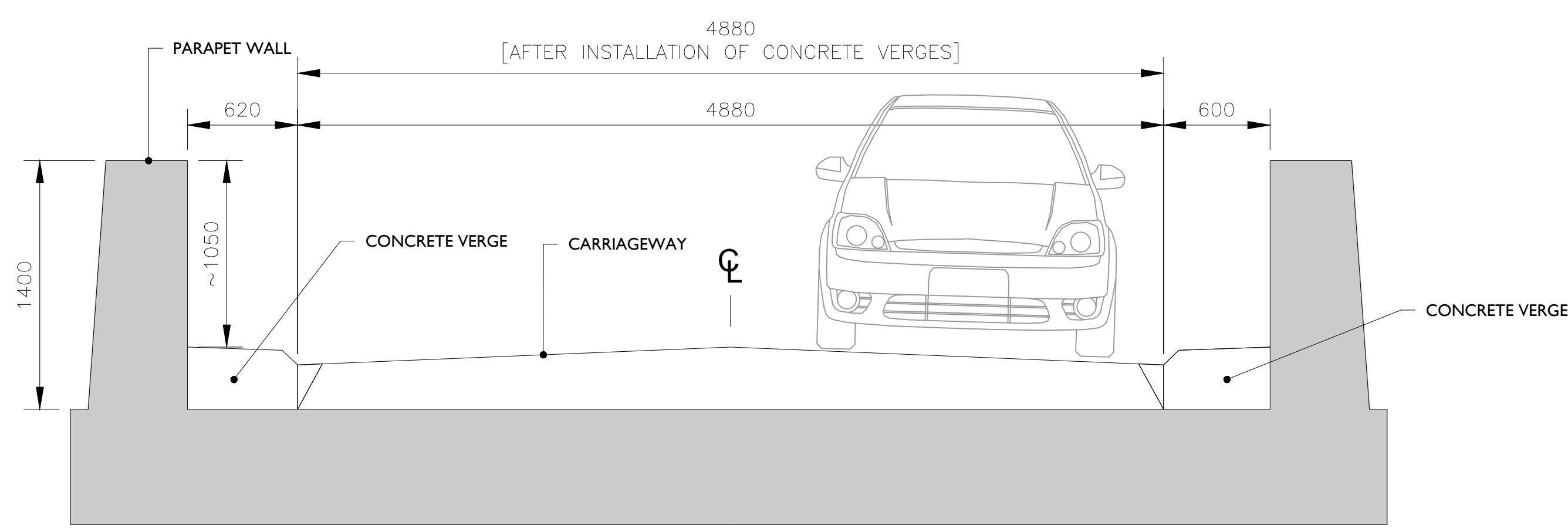
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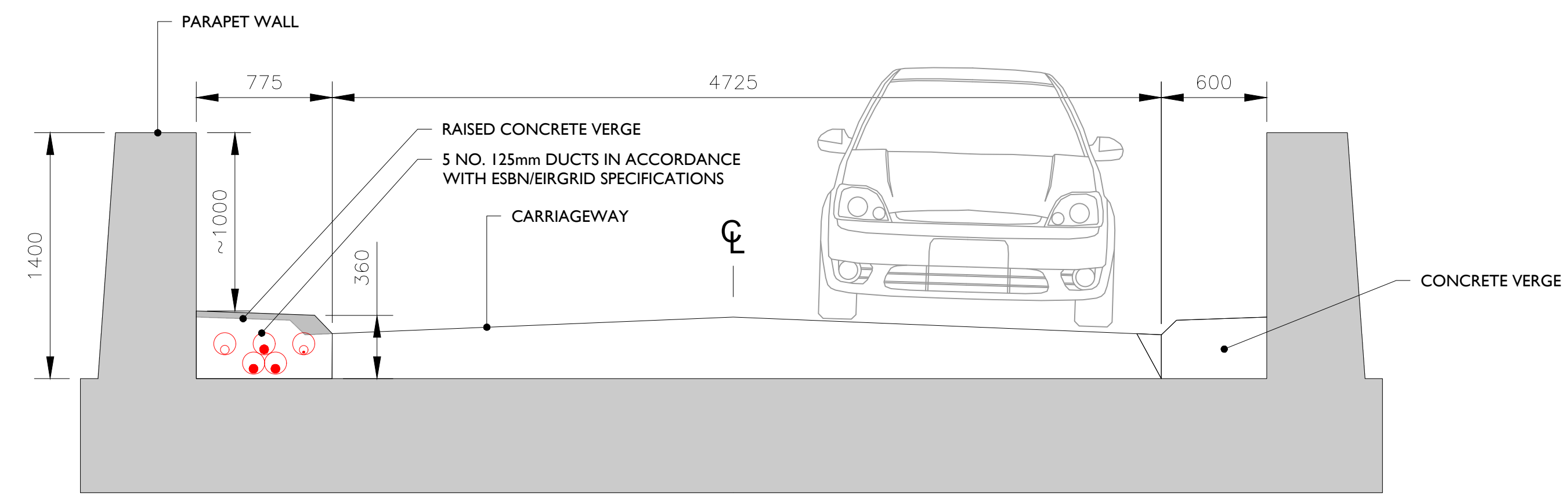
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email: info@www.mkoireland.ie
Website: www.mkoireland.ie



PLAN - PROPOSED OPTION DUCTS PLACED IN ROAD
SCALE 1:125



SECTION: EXISTING BRIDGE
SCALE 1:25

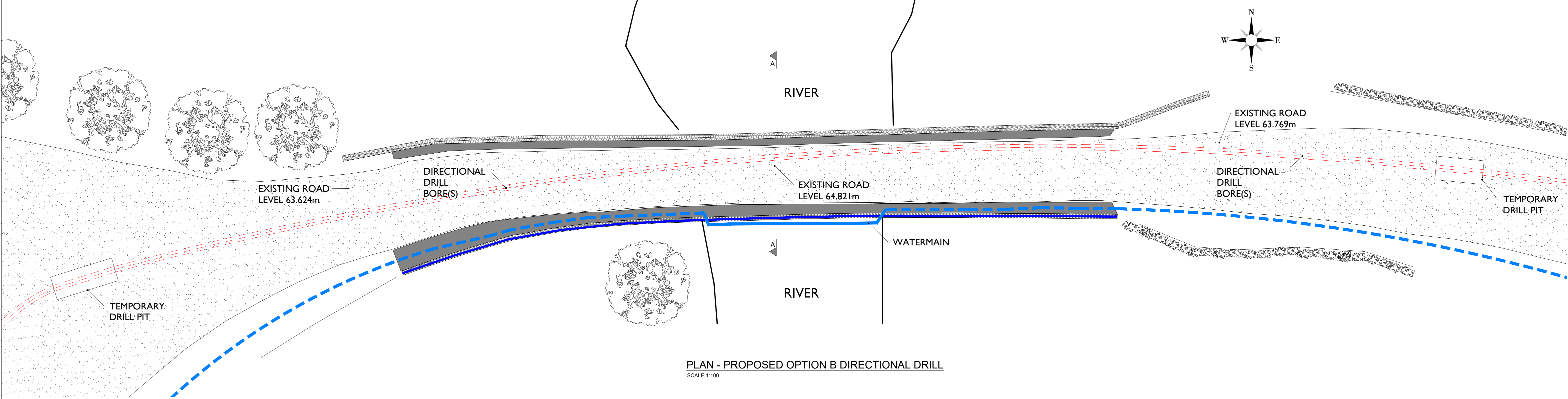


SECTION A-A - PROPOSED OPTION C DUCTS IN CONCRETE VERGE
SCALE 1:25

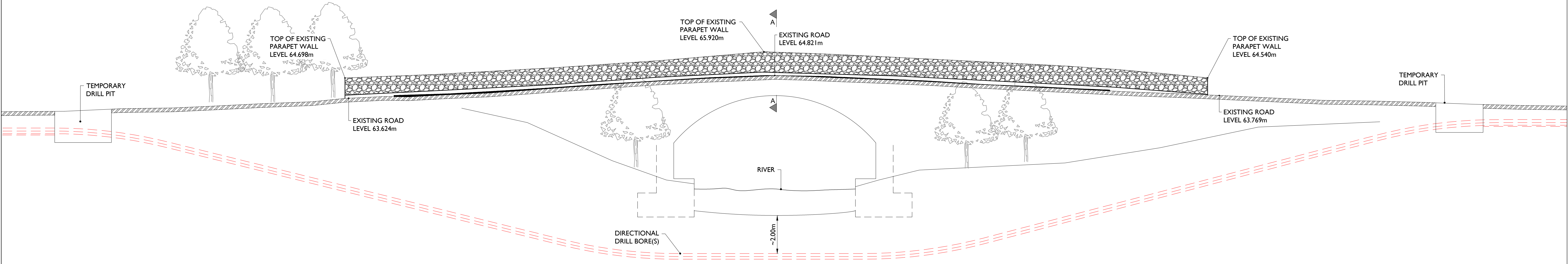


WH-1825-002.00 BRIDGE LOCATION

NOTES					ENGINEER IONIC CONSULTING The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E: hello@ionicconsulting.ie T: +353 (0) 1 845 5031 W: www.ionicconsulting.ie		CLIENT		PROJECT COOLE WIND FARM GRID ROUTE	
					DRAWN BY E. ANDRADE		DATE 07/10/2022		PAPER SIZE A1	
					CHECKED AND APPROVED J. SHANAHAN		DATE 07/10/2022		SCALE 1:25 / 1:125	
							STATUS DRAFT		DRAWING NUMBER COLE d005.3.3	
									REVISION B	



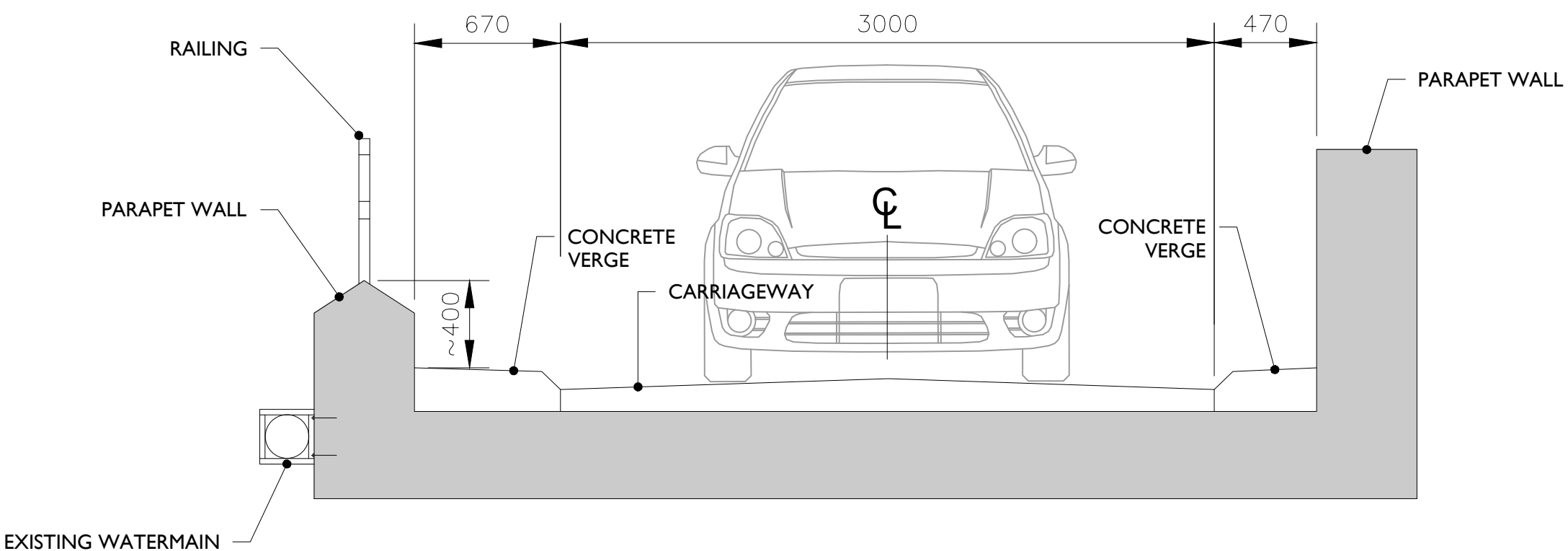
PLAN - PROPOSED OPTION B DIRECTIONAL DRILL
SCALE 1:100



SECTIONAL ELEVATION - PROPOSED OPTION B DIRECTIONAL DRILL
SCALE 1:100

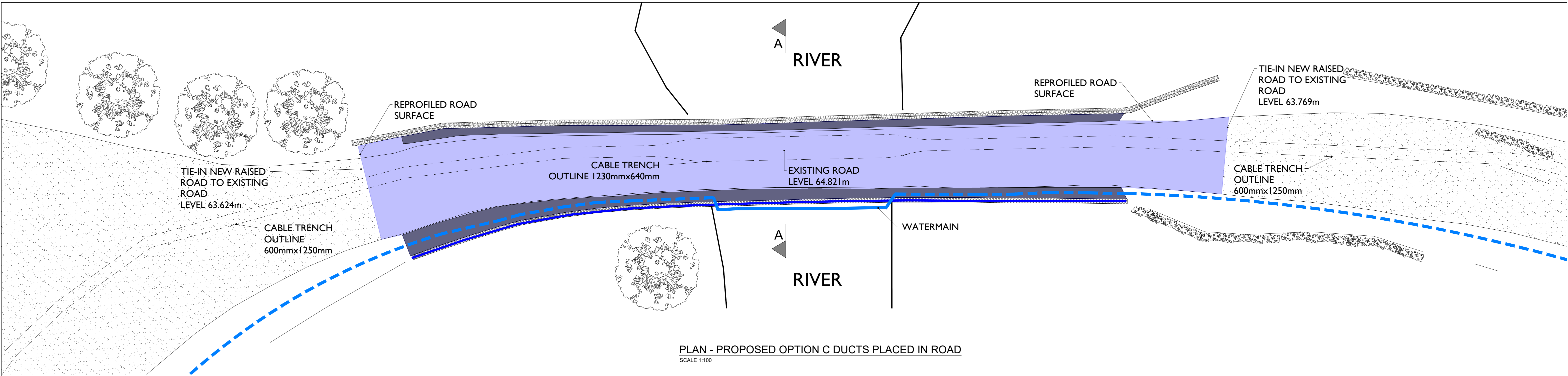


WH-1825-002.00 BRIDGE LOCATION

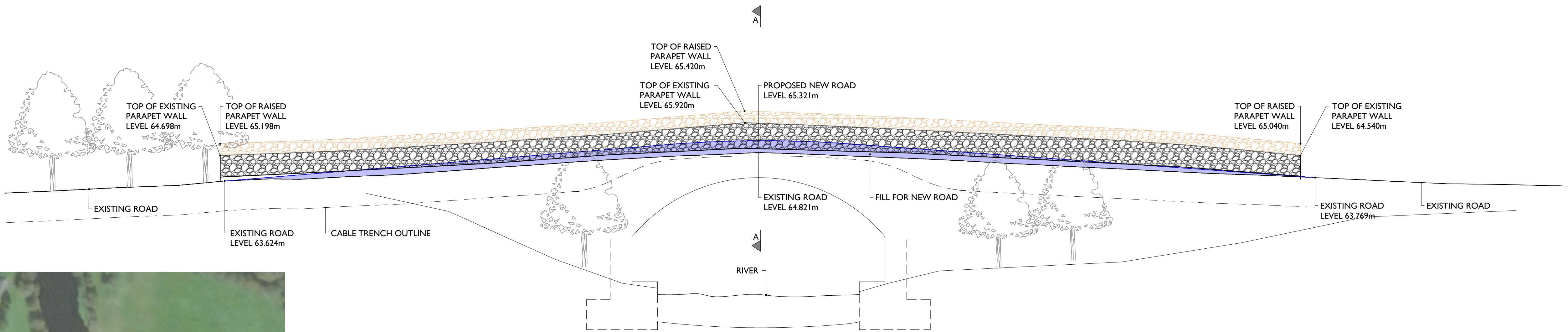


SECTION A-A
SCALE 1:25

NOTES										ENGINEER IONIC CONSULTING The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E: hello@ionicconsulting.ie T: +353 (0) 1 845 5031 W: www.ionicconsulting.ie					CLIENT		PROJECT				
										COOLE WIND FARM GRID ROUTE											
										TITLE					REVISION						
										SHRUBBYWOOD BRIDGE CROSSING WH-L1825-002.00 PROPOSED OPTION B					C						
					DRAWN BY E. ANDRADE					DATE 07/10/2022		PAPER SIZE A1		SCALE 1:100 / 1:25							
					CHECKED AND APPROVED J. SHANAHAN					DATE 07/10/2022		STATUS DRAFT		DRAWING NUMBER COLE d005.3.4							
					C 27/10/2022 E.A. J.S. WATERMAIN ADDED B 26/10/2022 M.B. J.S. "OPTION A" RENAMED TO "OPTION B" A 07/10/2022 J.S. FIRST ISSUE																
					REV DATE DRAWN BY CHECKED BY																



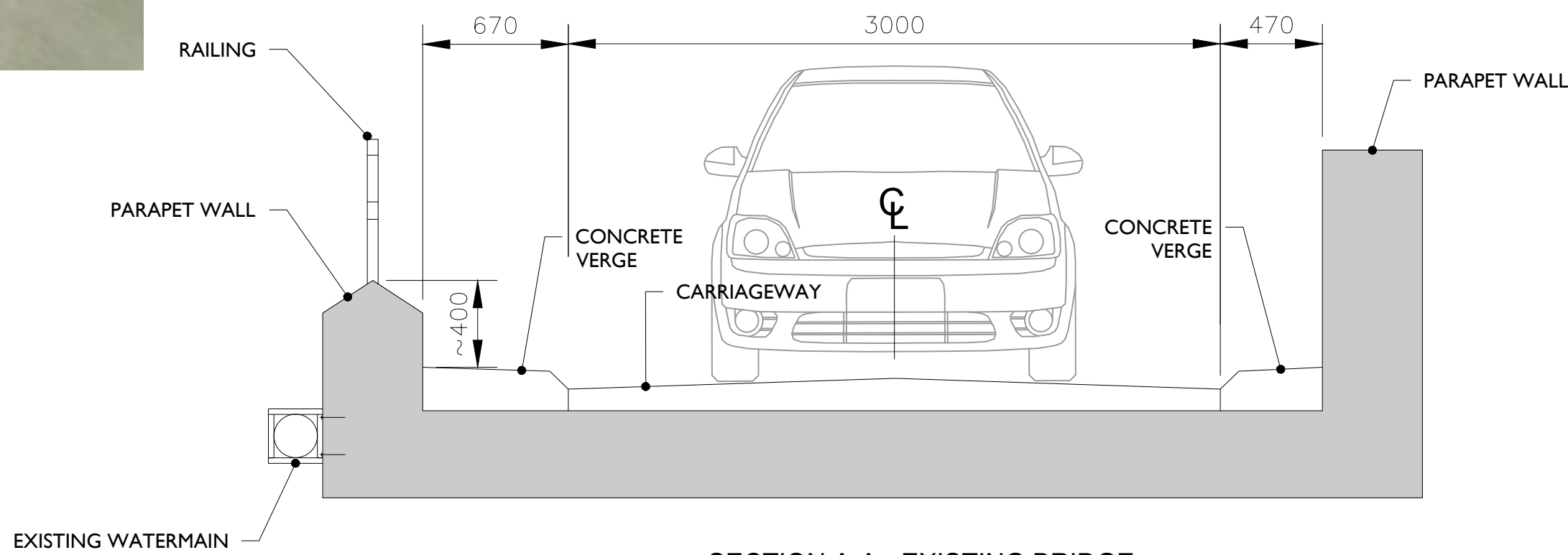
PLAN - PROPOSED OPTION C DUCTS PLACED IN ROAD
SCALE 1:100



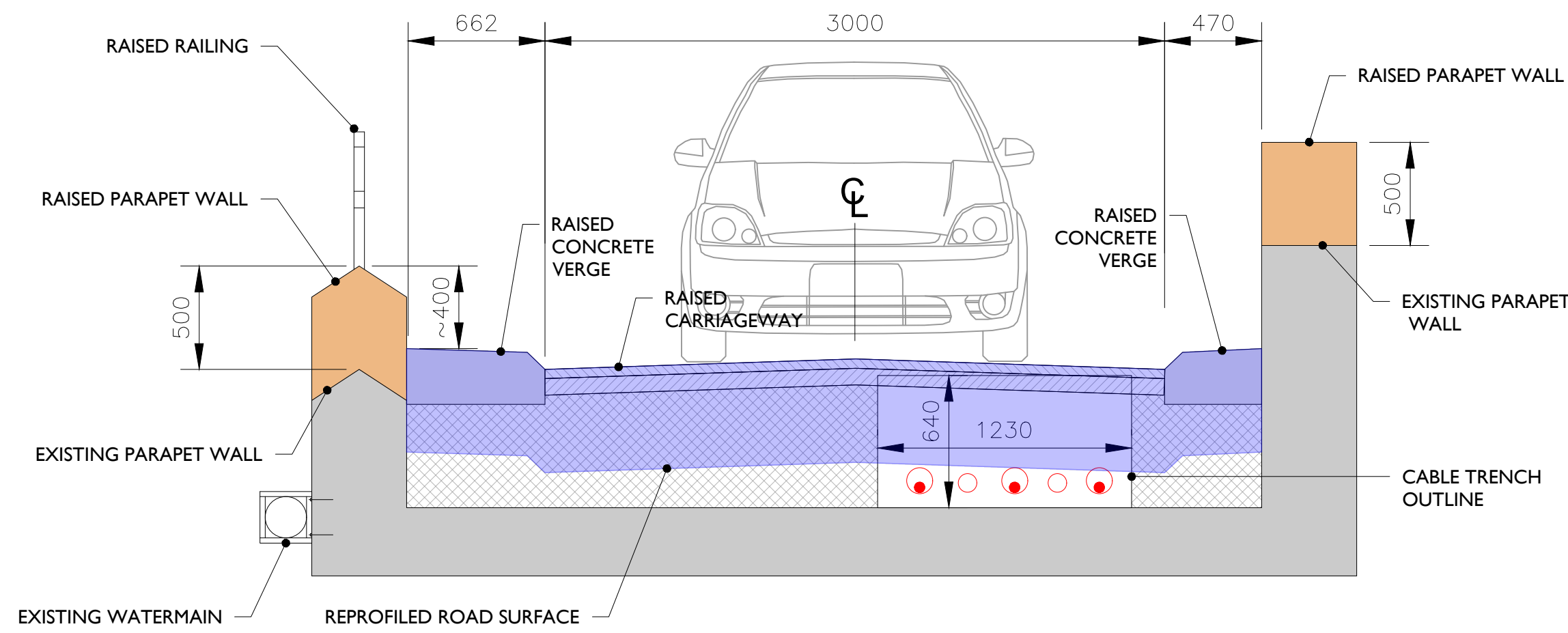
SECTIONAL ELEVATION - PROPOSED OPTION C DUCTS IN ROAD
SCALE 1:100



WH-1825-002.00 BRIDGE LOCATION

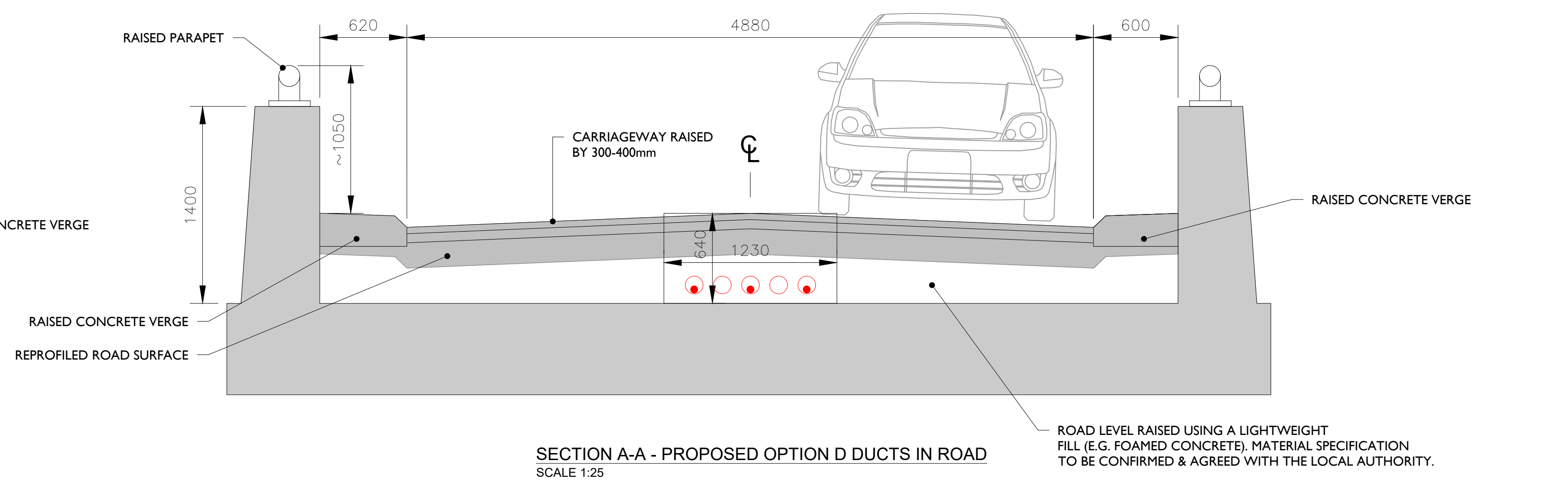
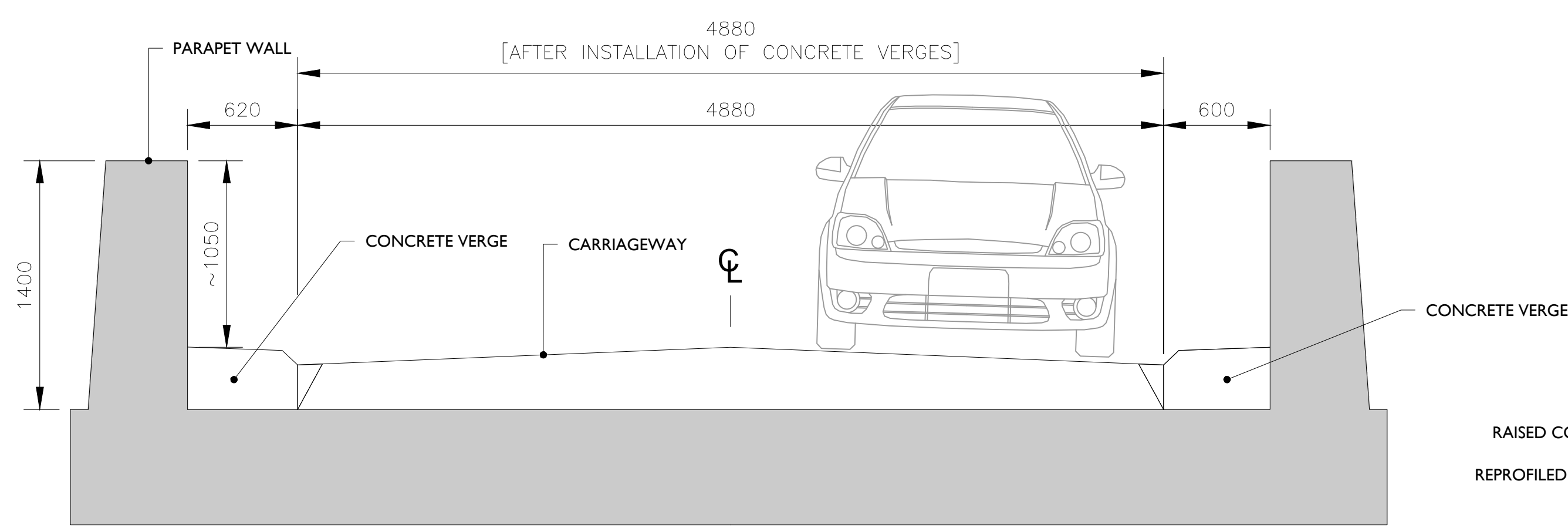
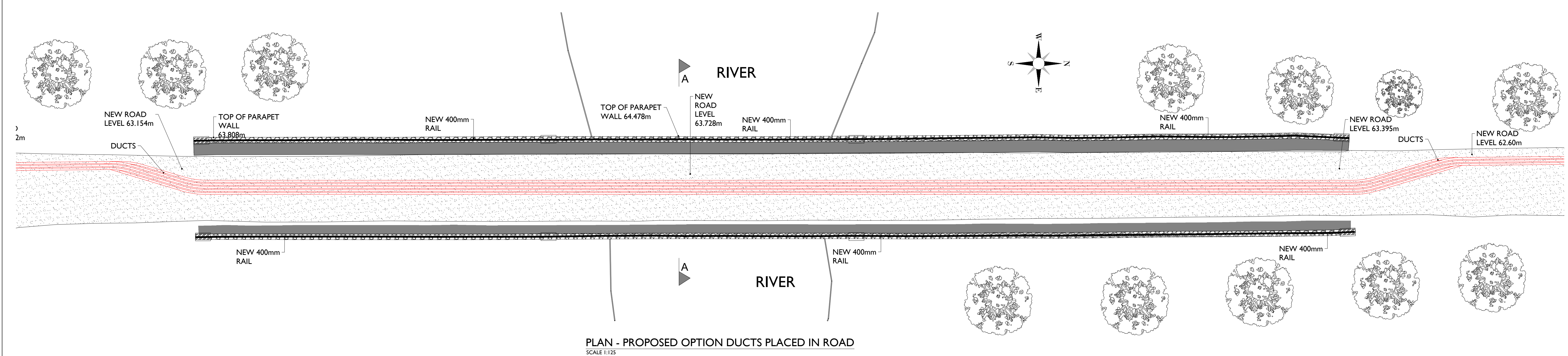


SECTION A-A - EXISTING BRIDGE
SCALE 1:25



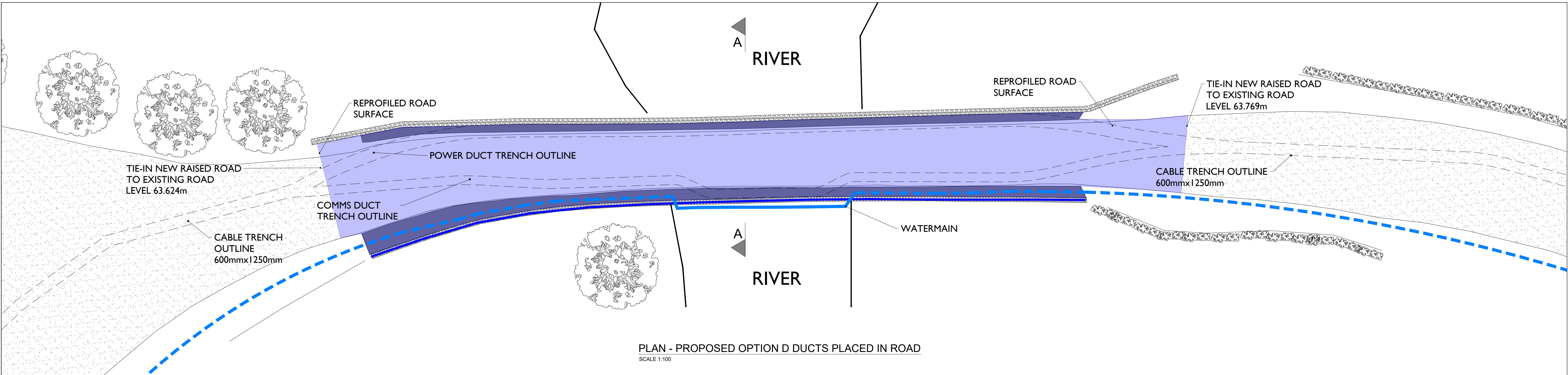
SECTION A-A - PROPOSED OPTION C
SCALE 1:25

NOTES				ENGINEER				CLIENT				PROJECT			
				IONIC CONSULTING				The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E: hello@ionicconsulting.ie T: +353 (0) 1 845 5031 W: www.ionicconsulting.ie				COOLE WIND FARM GRID ROUTE			
				DRAWN BY E. ANDRADE				PAPER SIZE A1				TITLE SHRUBBYWOOD BRIDGE CROSSING WH-L1825-002.00 PROPOSED OPTION C			
				CHECKED AND APPROVED J. SHANAHAN				SCALE 1:100 / 1:25				REVISION C			
				DATE 07/10/2022				STATUS DRAFT				DRAWING NUMBER COLE d005.3.5			
REV				DATE				DRAWN BY				CHECKED BY			
C				27/10/2022				E.A.				J.S.			
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A				07/10/2022				E.A.				J.S.			

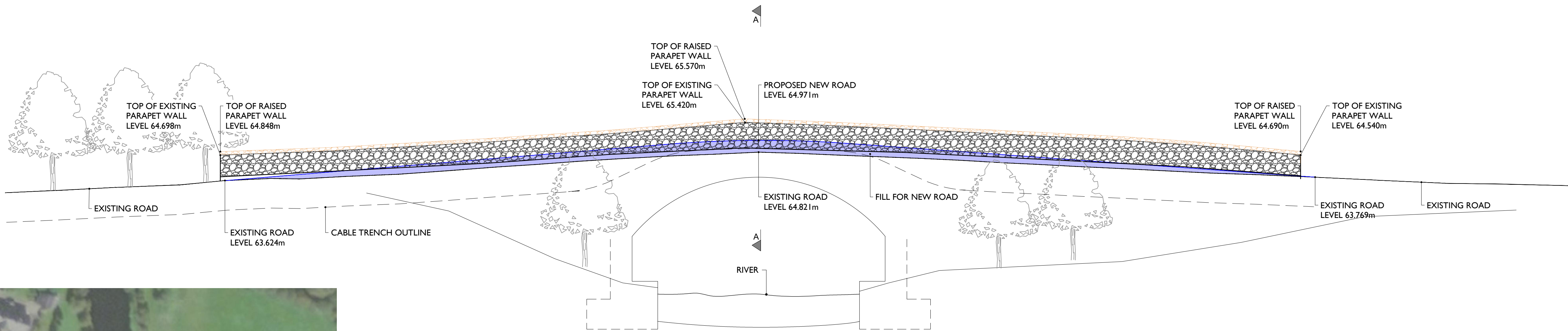


WH-1825-002.00 BRIDGE LOCATION

NOTES						ENGINEER IONIC CONSULTING The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E: hello@ionicconsulting.ie T: +353 (0) 1 845 5031 W: www.ionicconsulting.ie		CLIENT		PROJECT COOLE WIND FARM GRID ROUTE			
						DRAWN BY M. BROWNE		DATE 25/10/2022		PAPER SIZE A1		SCALE 1:25 / 1:125	
						CHECKED AND APPROVED J. SHANAHAN		DATE 25/10/2022		STATUS DRAFT		TITLE CLONAVA BRIDGE CROSSING WH-L1825-001.00 PROPOSED OPTION D	
						DRAWING NUMBER COLE d005.3.6						REVISION A	
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						FIRST ISSUE DETAILS							



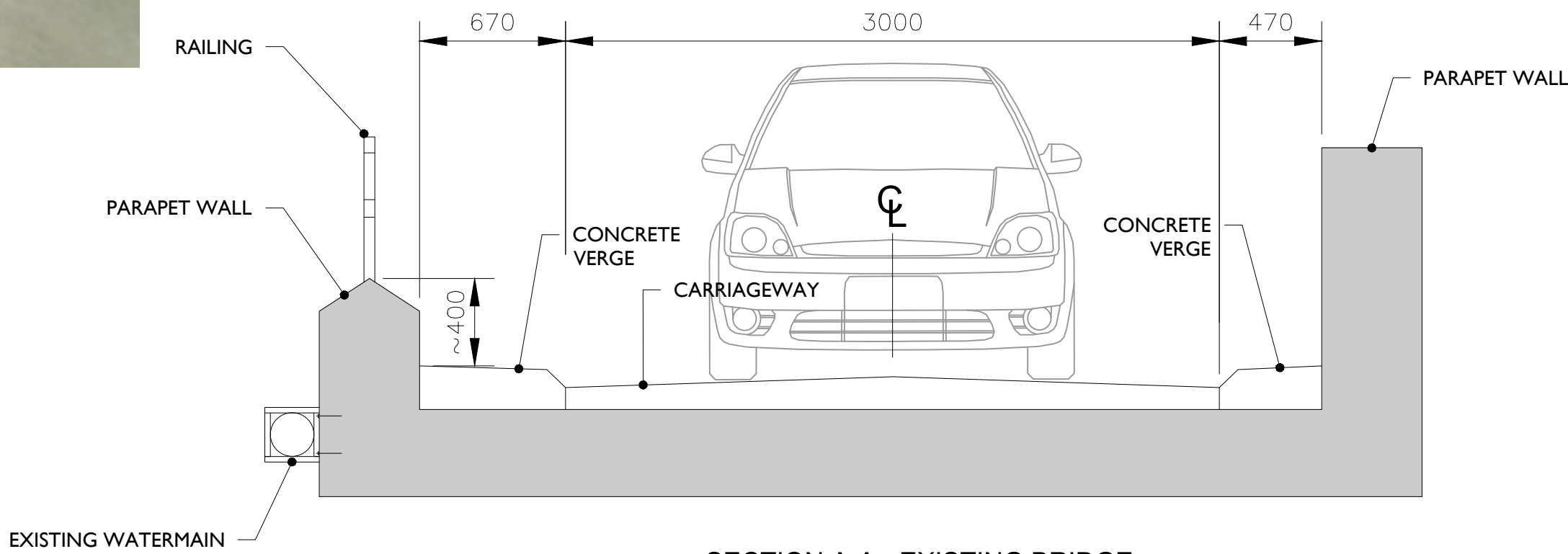
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SCALE 1:100



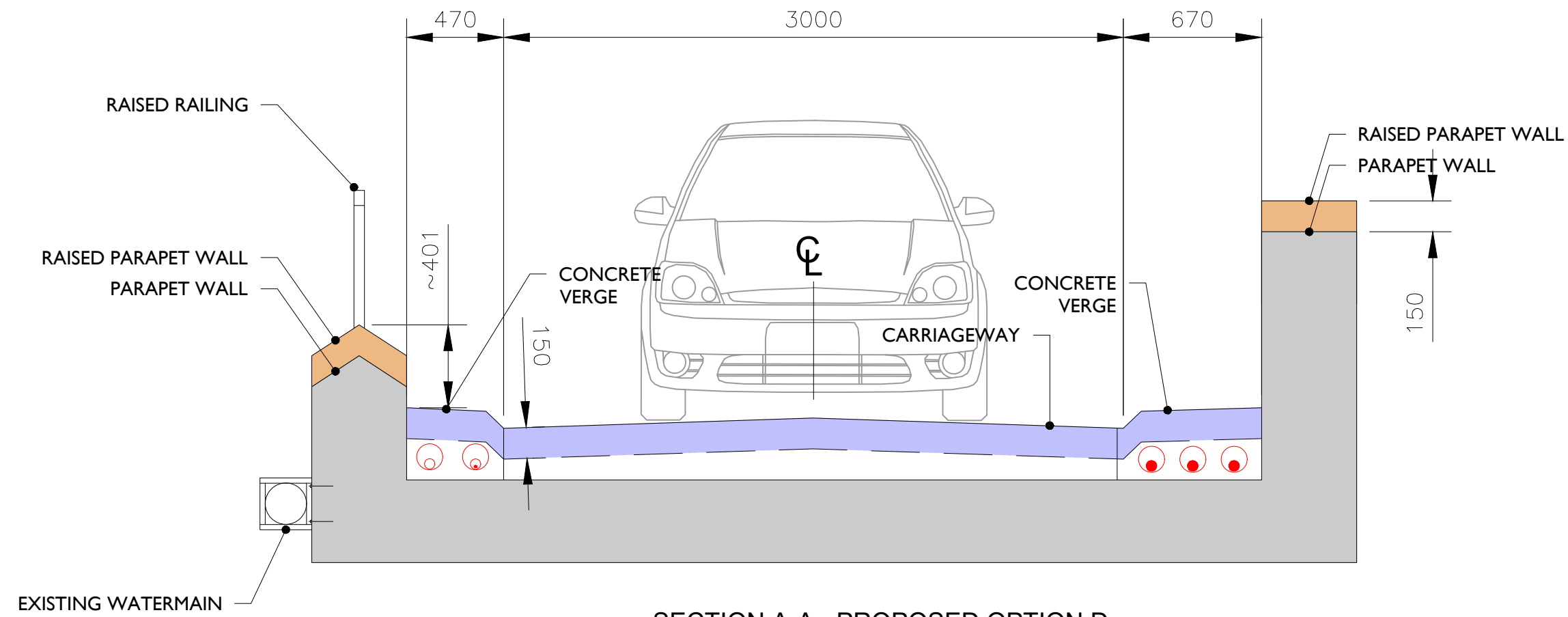
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SCALE 1:100



WH-1825-002.00 BRIDGE LOCATION

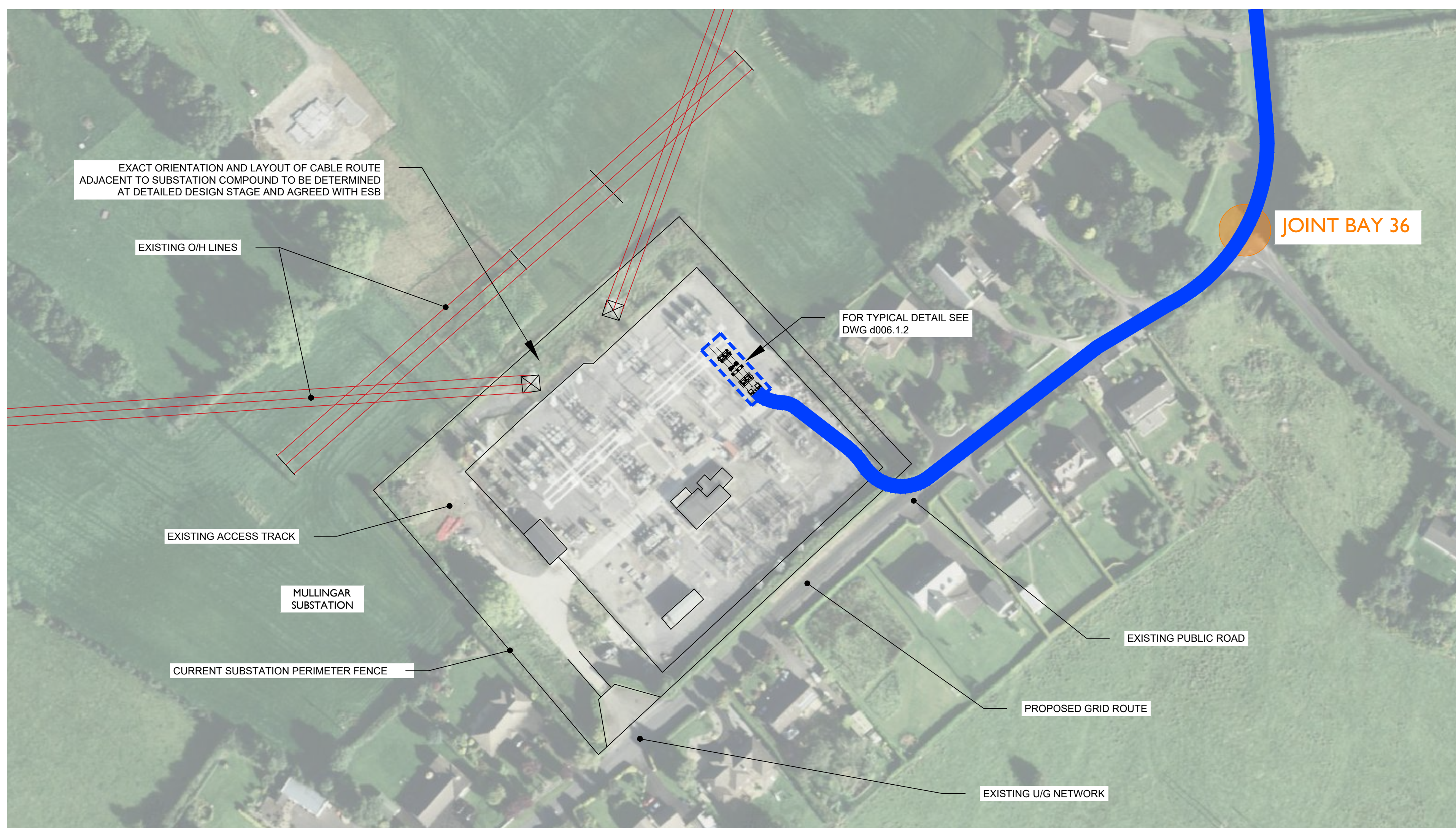
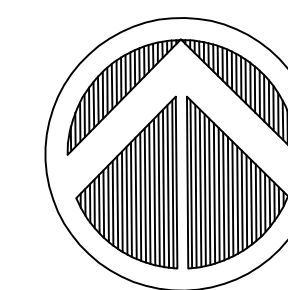


SECTION A-A - EXISTING BRIDGE
SCALE 1:25



SECTION A-A - PROPOSED OPTION D
SCALE 1:25

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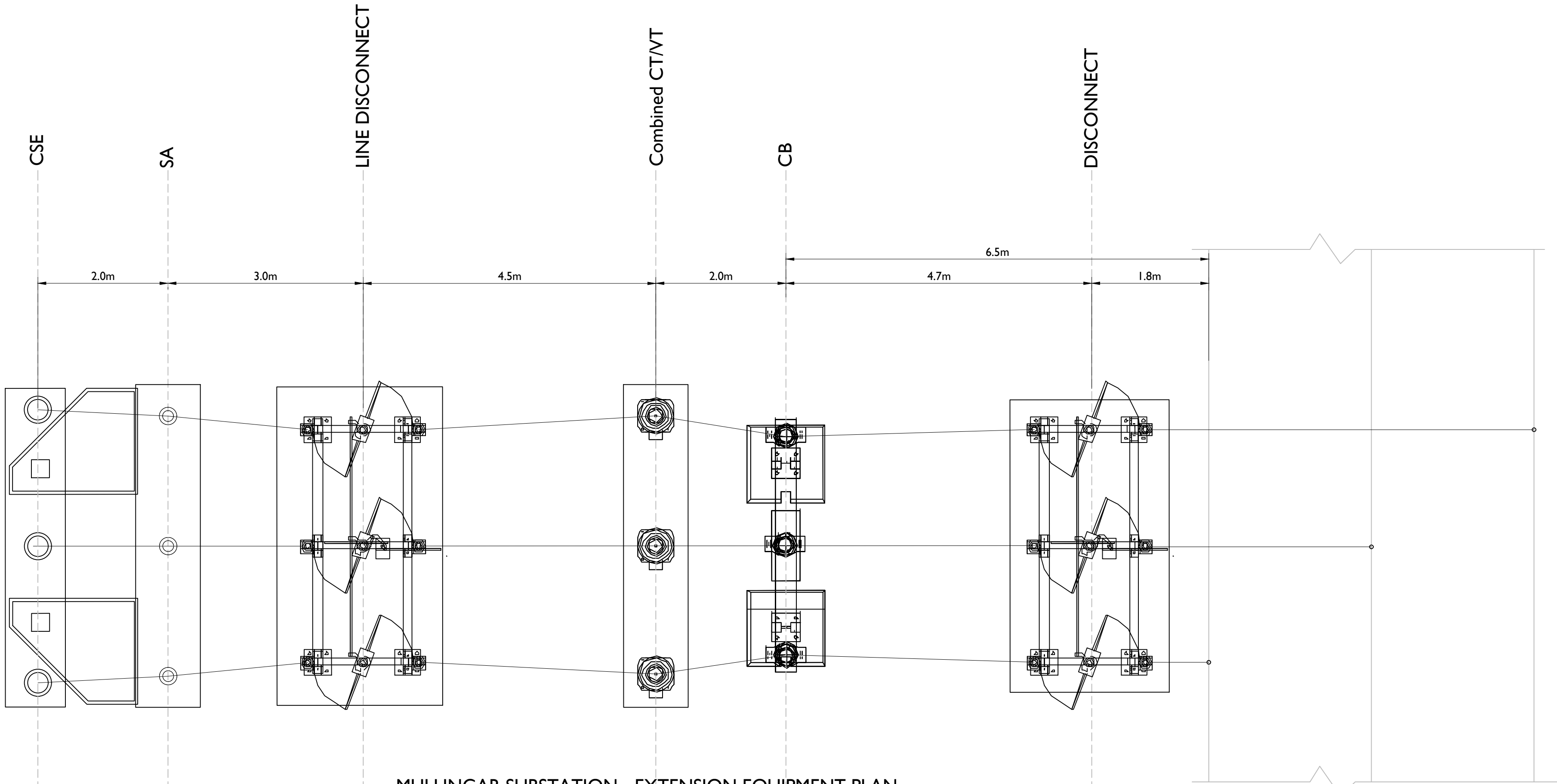
MULLINGAR SUBSTATION - ILLUSTRATIVE PLAN
Scale 1:50

NOTES									ENGINEER IONIC CONSULTING The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland hello@ionicconsulting.ie +353 (0) 1 845 5031 www.ionicconsulting.ie Formerly known as WIND PROSPECT IRELAND				CLIENT		PROJECT COOLE WIND FARM GRID ROUTE					
													TITLE MULLINGAR SUBSTATION ILLUSTRATIVE PLAN				REVISION E			
									DRAWN BY M. BROWNE		DATE 16/01/2020		PAPER SIZE A1		SCALE 1:1000					
									CHECKED AND APPROVED J. SHANAHAN		DATE 16/01/2020		STATUS DRAFT		DRAWING NUMBER COLE d006.I.I					

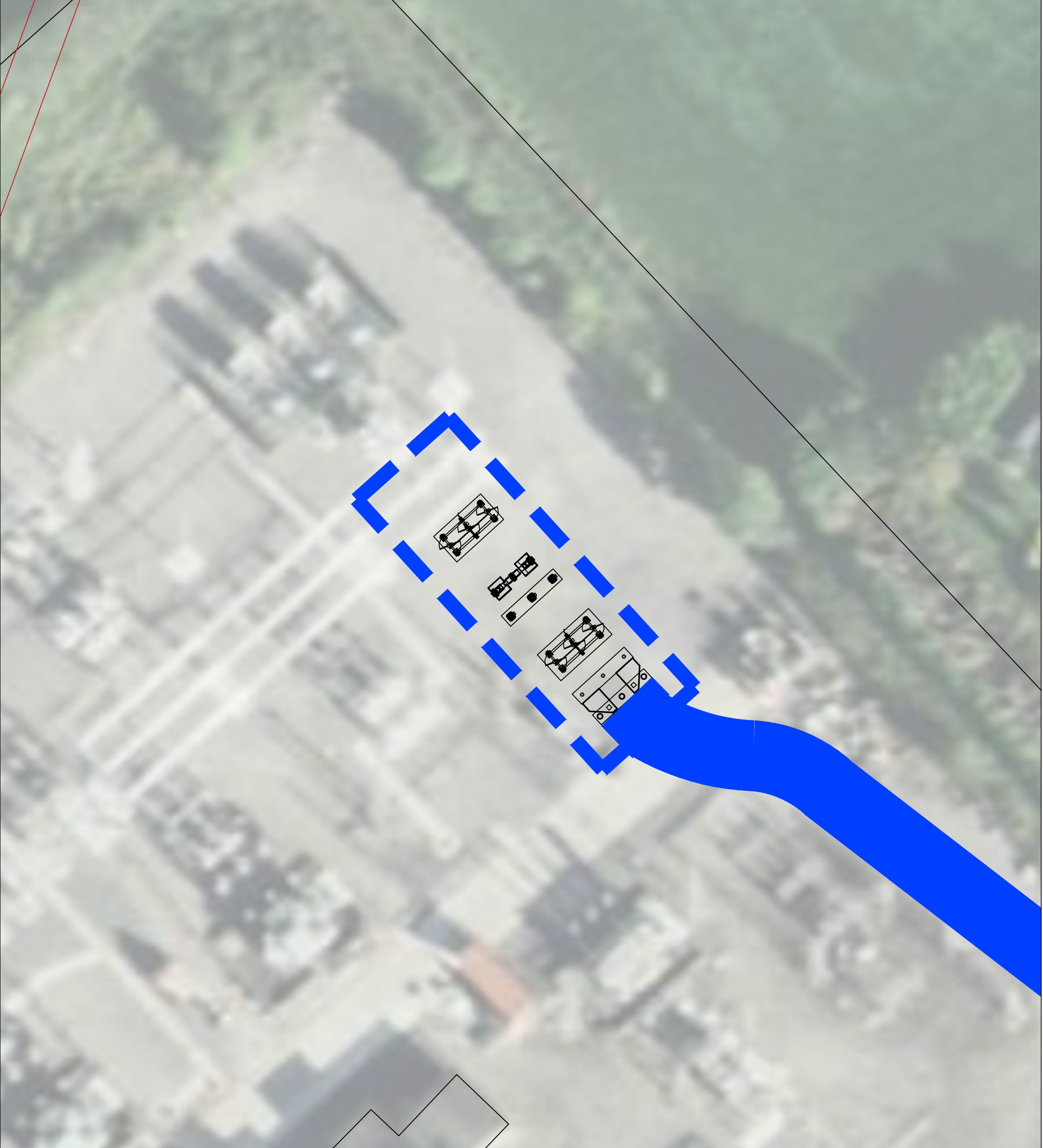
E	13/10/2022	E.A.	J.S.	ALTERNATIVE CONNECTION BAY LOCATIONS REMOVED
D	16.03.2022	J.S.	PK	ELECTRICAL EQUIPMENT UPDATED
C	11.03.2022	J.S.	PK	ELECTRICAL EQUIPMENT UPDATED
B	20.03.2020	M.S.	J.S.	BAY LOCATIONS MOVED
A	16.01.2020	M.B.	J.S.	FIRST ISSUE
REV	DATE	DRAWN BY	CHECKED BY	DETAILS

Revised : 13/10/2022 (10:12)

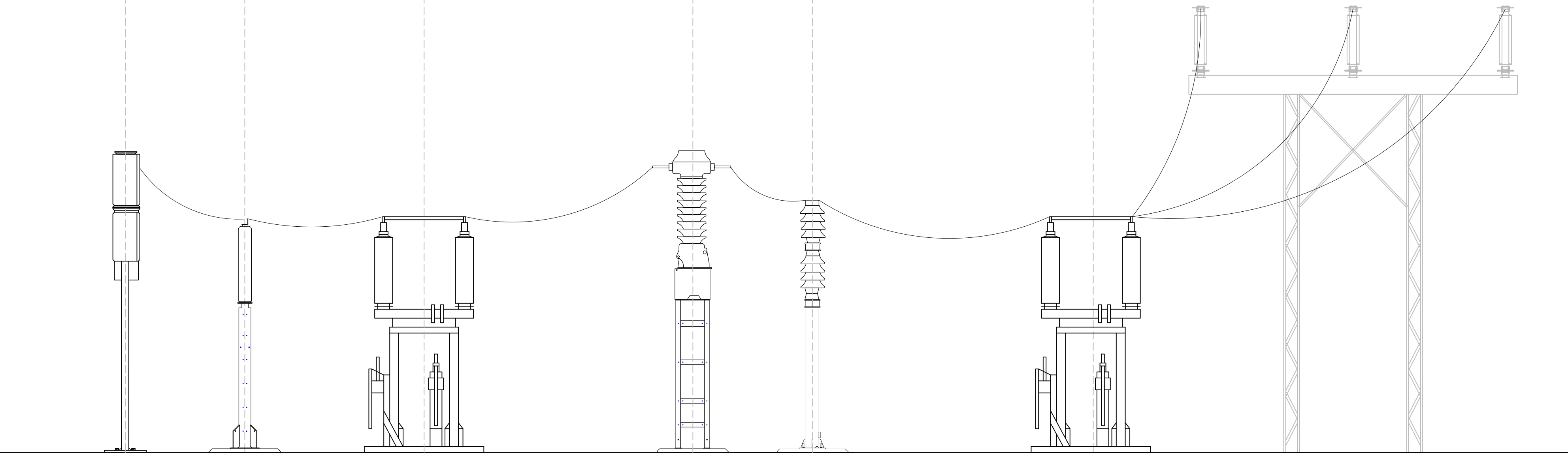
E:\Project\Ireland\Code COLE\Drawings\006 Substation\COLE d006 Mullgar Set



MULLINGAR SUBSTATION - EXTENSION EQUIPMENT PLAN
SCALE 1:50



MULLINGAR SUBSTATION - EXTENSION EQUIPMENT LOCATION
SCALE 1:250



MULLINGAR SUBSTATION - EXTENSION EQUIPMENT ELEVATIONS
SCALE 1:50

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NOTES
1. Confirmation of overall bay length is subject to an as-built survey within the substation area.

REV	DATE	DRAWN BY	CHECKED BY	DETAILS
E	13/10/2022	E.A.	J.S.	ALTERNATIVE CONNECTION BAY LOCATIONS REMOVED
D	16/03/2022	J.S.	PK	ELECTRICAL EQUIPMENT UPDATED
C	11/03/2022	J.S.	PK	ELECTRICAL EQUIPMENT UPDATED
B	20/03/2020	MS	J.S.	PLAN UPDATED
A	16/01/2020	MS	J.S.	FIRST ISSUE

ENGINEER		CLIENT	
		The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E: hello@ionicconsulting.ie T: +353 (0) 1 845 5031 W: www.ionicconsulting.ie Formerly known as WIND PROSPECT IRELAND	
DRAWN BY		PAPER SIZE	
M. BROWNE		A1	
CHECKED AND APPROVED		SCALE	
J. SHANAHAN		As shown	
DATE		STATUS	
16/01/2020		DRAFT	

PROJECT		REVISION
COOLE WIND FARM GRID ROUTE		
TITLE		E
MULLINGAR SUBSTATION EXTENSION EQUIPMENT DETAILS		
DRAWING NUMBER		
COLE d006.1.2		