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

Drawing Legend

— Planning Application Boundary

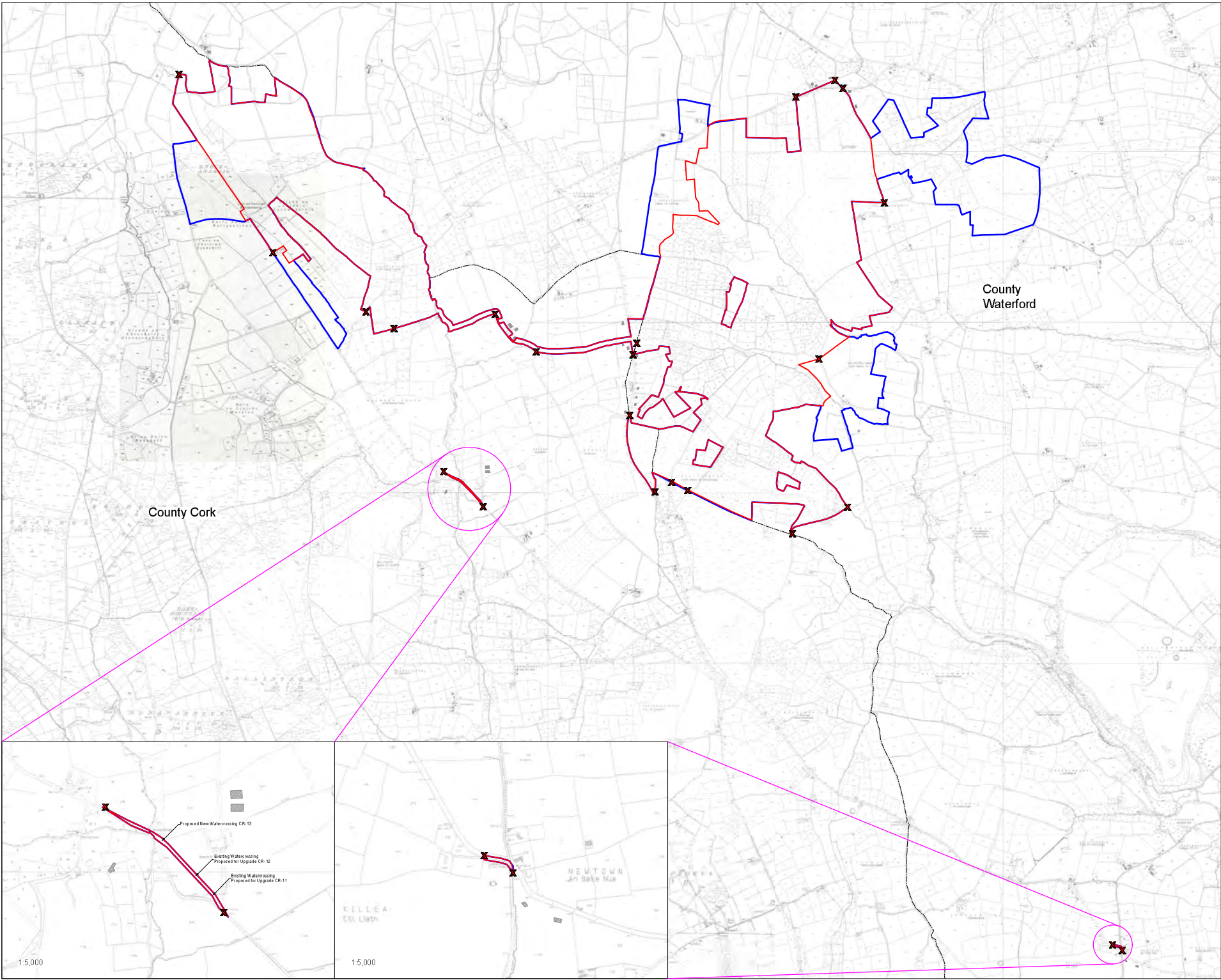


Location Context Map

PROJECT TITLE	
Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford	
DRAWING BY	CHECKED BY
Joseph O'Brien	Lorraine Meehan
PROJECT No.	DRAWING No.
170749	170749 - 01
SCALE:	DATE:
1:500,000 @ A3	05.01.2021
OS SHEET No.:	OS 1808, OS 2008

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

- Drainage Design Notes**
1. All drainage subject to micro-siting and optimisation on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, stiling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
 5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stiling pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
 9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stiling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
 10. Stiling ponds to be sized according to the area they will be receiving water from.
 11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
 12. Existing drains/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and maintenance plan.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

Drawing Legend

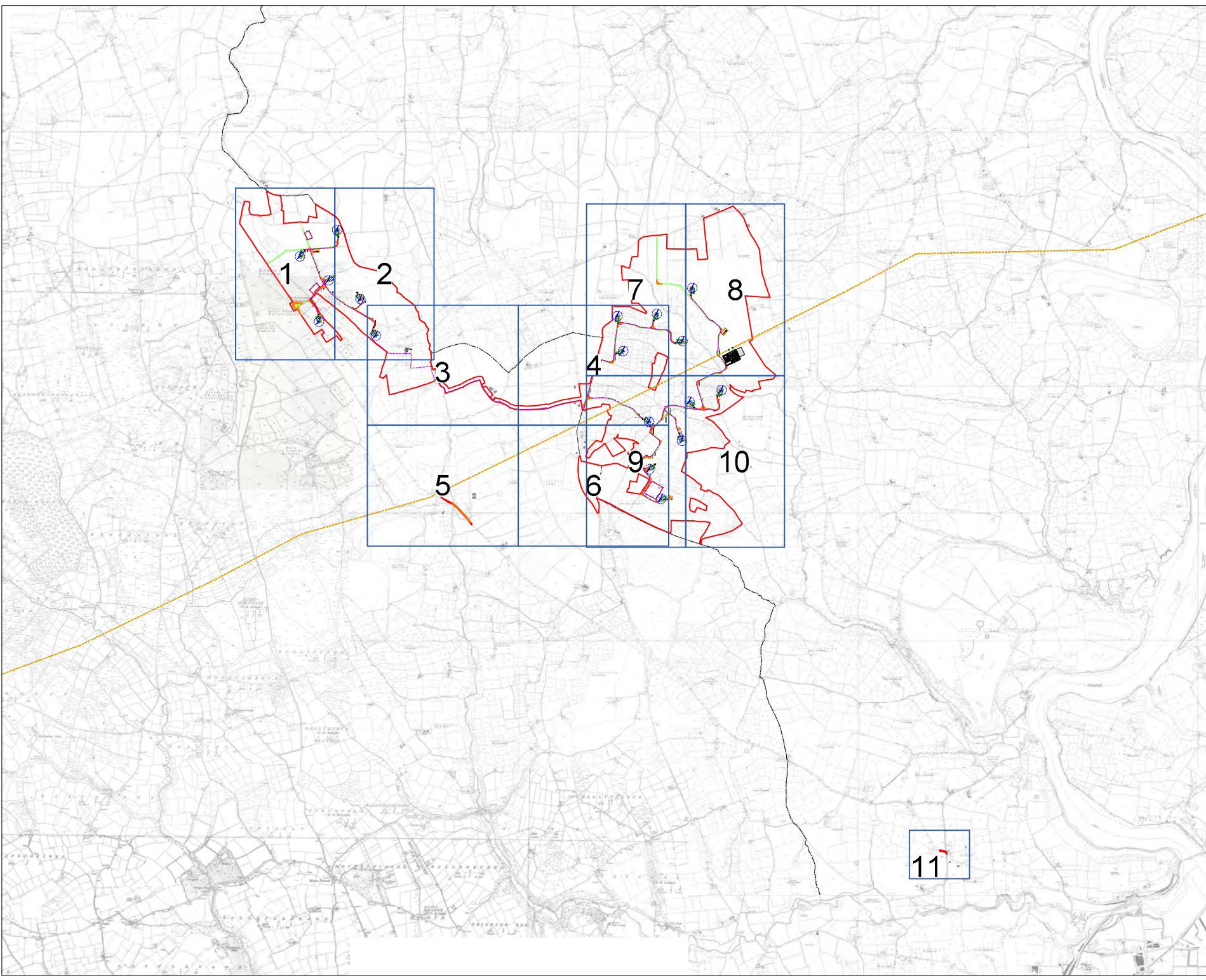
	Planning Application Boundary
	Landowners Boundary
	Site Notice
	County Border

Site Location Map

PROJECT TITLE	
Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford	
DRAWING BY	CHECKED BY
Joseph O'Brien	Lorraine Meehan
PROJECT NO.	DRAWING NO.
170749	170749 - 02
SCALE:	DATE:
1:15,000 @ A1	05.01.2021
D3 SHEET NO.:	
8105, 8109, 8110, 8111, 8154, 8155, 8156, 8157, 8201, 8202, 8203, 8204	

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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.

- Drainage Design Notes**
1. All drainage subject to micro-siting and optimisation on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, stilling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
 5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stilling pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
 9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
 10. Stilling ponds to be sized according to the area they will be receiving water from.
 11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
 12. Existing drains/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and maintenance plan.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Works Area
 - Soft Levelled Area
 - Crane Pad Handstanding Area
 - Turbine Foundation
 - ⊗ Turbine Sweep Area
 - Borrow Pit
 - Existing 110kV Overhead Line
 - County Border



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Site Layout Key Plan B

PROJECT TITLE
Lyrenacarriga Wind Farm,
Co. Cork & Co. Waterford

DRAWING BY Joseph O'Brien **CHECKED BY** Lorraine Meehan

PROJECT NO. 170749 **DRAWING NO.** 170749 -08

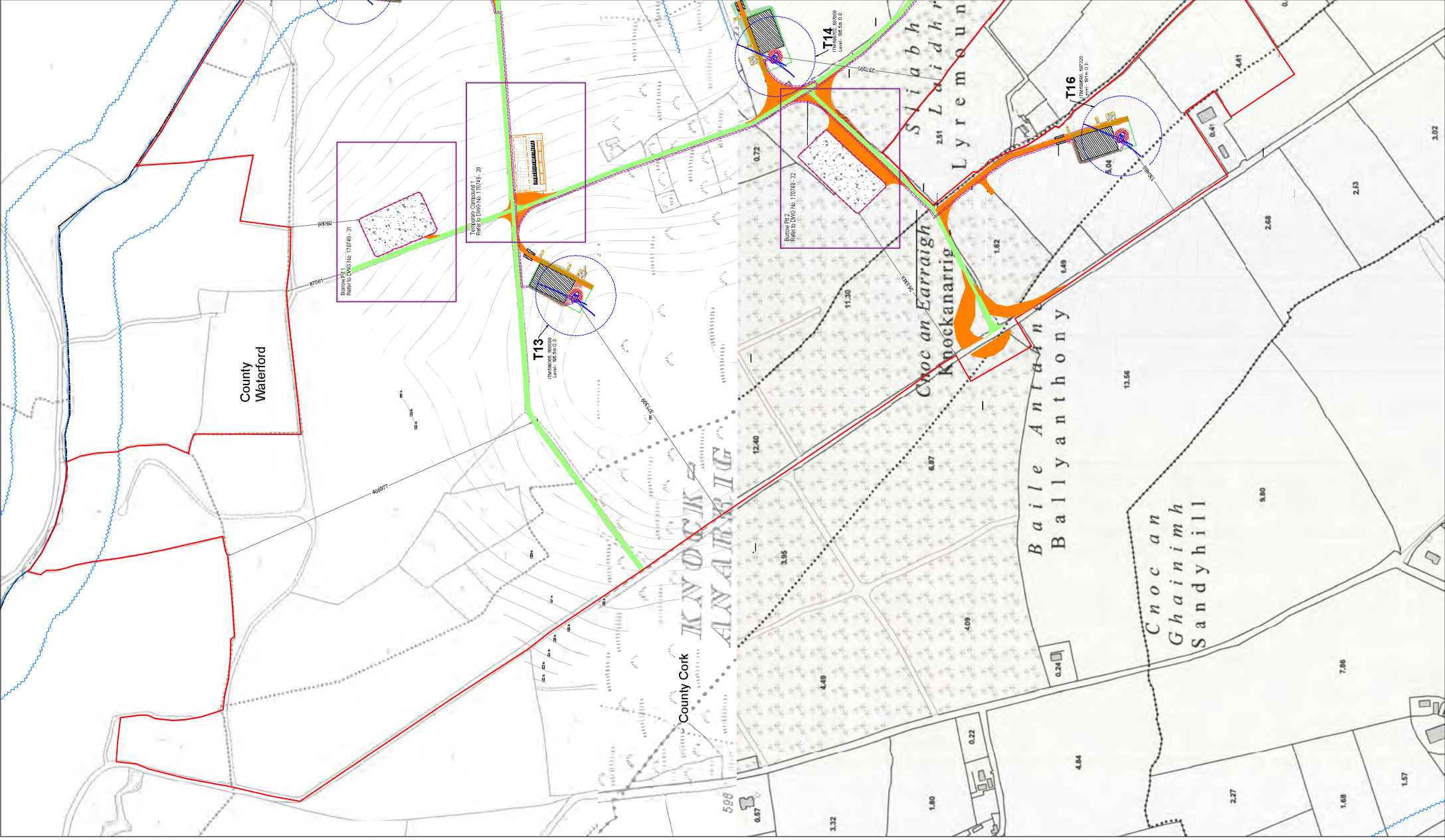
SCALE: 1:20,000 @ A1 **DATE:** 05.01.2021

DK SHEET NO.: 1100, 1101, 1102, 1111, 1112, 1114, 1116, 1118, 1119, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200

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11

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 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for taking and checking any and all levels.
 6. Dimensions and level then refer to the work.
 7. The accuracy of these conditions of use unless otherwise agreed in writing. The contractor shall be responsible for and issued by the client for any errors or omissions on the drawing.
 8. Layout plans show typical. Tubule rotor diameter as per tubule drawing.
 9. Final levels may vary depending on local ground conditions.
 10. All drainage systems to be installed in accordance with the following standards:
 1. All drains subject to micro-siting and optimisation on site.
 2. The locations of these interceptor drains, check dams, culverts, swales, silted ponds and level spreaders are shown as indicative, subject to change to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works to be consulted for the installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as any works areas they are intended to drain.
 5. The locations of these drainage features shall be checked by the supervising hydrologist or environmental clerk of works prior to the installation of the drainage features.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
 7. Check dam design to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water is discharged to be 1:10.
 9. No direct discharge or pumping to watercourses will be permitted. All discharge from level spreaders or silted ponds to be via vegetated areas. Swales to suitable areas to use as vegetation strip to filter runoff from the contributing catchment.
 10. Silted ponds to be sited according to the area they will be draining.
 11. Diversion of road/paths to be incorporated or removed during construction.
 12. Existing drainage ditches will only take place when alternative drainage ditch has been installed to handle the same volume of water.
 13. All drainage system features to be subject of inspection and all drainage would be installed as close to the road as possible.



Drawing Legend

- Planning Application Boundary
- Existing Roads to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 7.5m River/Stream Buffer
- Works Area
- Soil Levelled Area
- Crane Path/Overstanding Area
- Turbine Foundation
- Turbine Sweeep Area
- Borrow Pit
- CLC
- Fill
- County Boundary



**Site Layout Plan
Sheet 1 of 11**

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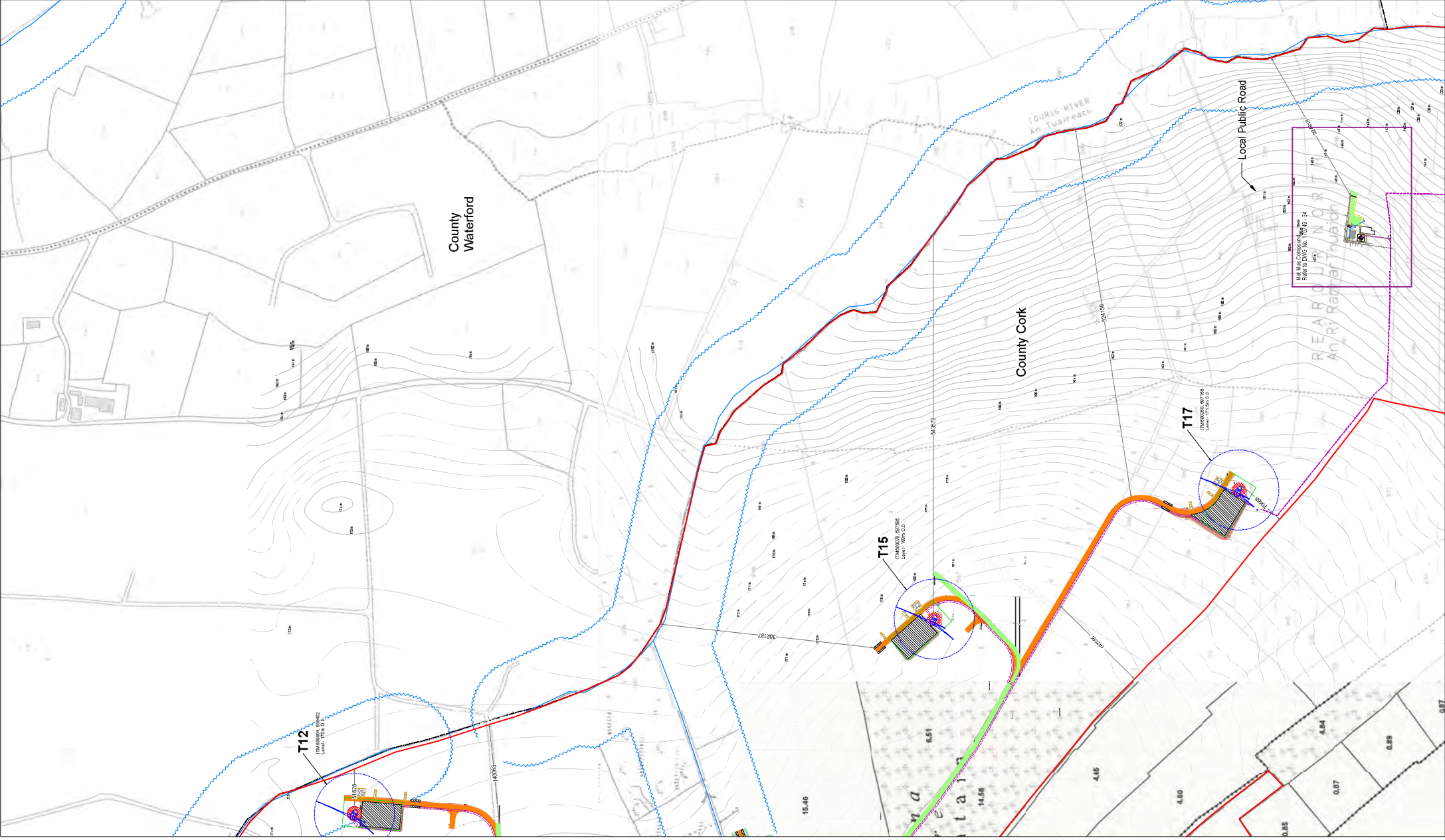
PROJECT TITLE	Lyrencarrige Wind Farm, Co. Cork & Co. Waterford		
DRAWING NO.	170749	DRAWN BY	Lorraine Meenan
SCALE	1:2,500 @ A1	DATE	05.01.2021
DATE	170749_09	SCALE	1:2,500 @ A1
DATE	05.01.2021	SCALE	1:2,500 @ A1

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 Website: www.mkocork.com

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 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for testing and checking any and all dimensions and levels then report to the works manager.
 6. The design of these drainage systems shall be deemed to be in acceptance of these conditions of use unless otherwise agreed in writing.
 7. Contractors are responsible for the design, construction and installation of the drainage systems and are to be approved by the works manager in writing prior to the commencement of work.
 8. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
 9. Check dam designs to be selected based on local ground conditions, topography and hydrological environment.
 10. Down gradient slope below level spreader into which the water is discharged shall be a minimum of 1:100.
 11. All discharge from level spreaders or silt ponds to be via vegetated areas. Silt ponds or suitable areas to use as vegetation silt ponds shall be approved by the works manager in writing prior to the commencement of work.
 12. Silt ponds to be used according to the area they will be installed in.
 13. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same volume of water.
 14. Existing drain ditches to be incorporated or removed during wind farm construction.
 15. All drainage system features to be subject of inspection and approval by the works manager in writing prior to the commencement of work.
 16. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

17. All areas subject to muck-slinging and minimisation on site.
18. The locations of the interceptor drains, check dams, culverts, swales, silt ponds and level spreaders are shown as indicative, subject to change to suit the requirements of the local topography.
19. Supervising hydrologist or environmental clerk or works manager to be consulted for the installation of drainage features following detailed drainage design.
20. Drainage measures to be installed prior to, or at the same time as, the works areas they are intended to drain.
21. The design of these drainage systems shall be deemed to be in acceptance of these conditions of use unless otherwise agreed in writing.
22. Contractors are responsible for the design, construction and installation of the drainage systems and are to be approved by the works manager in writing prior to the commencement of work.
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39. Check dam designs to be selected based on local ground conditions, topography and hydrological environment.
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43. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same volume of water.
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Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 75m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Hoisting Area
- Turbine Foundation
- Turbine Sweeps Area
- Cut
- Fill
- County Bomber



**Site Layout Plan
Sheet 2 of 11**

CRIBRICE SURVEY (Ireland) Licence No. A5702182008 CRIBRICE SURVEY (Ireland) Government of Ireland

PROJECT TITLE: **Lyreacarrige Wind Farm, Co. Cork & Co. Waterford**

DESIGNED BY: **Joseph O'Brien** CHECKED BY: **Lorraine Meehan**

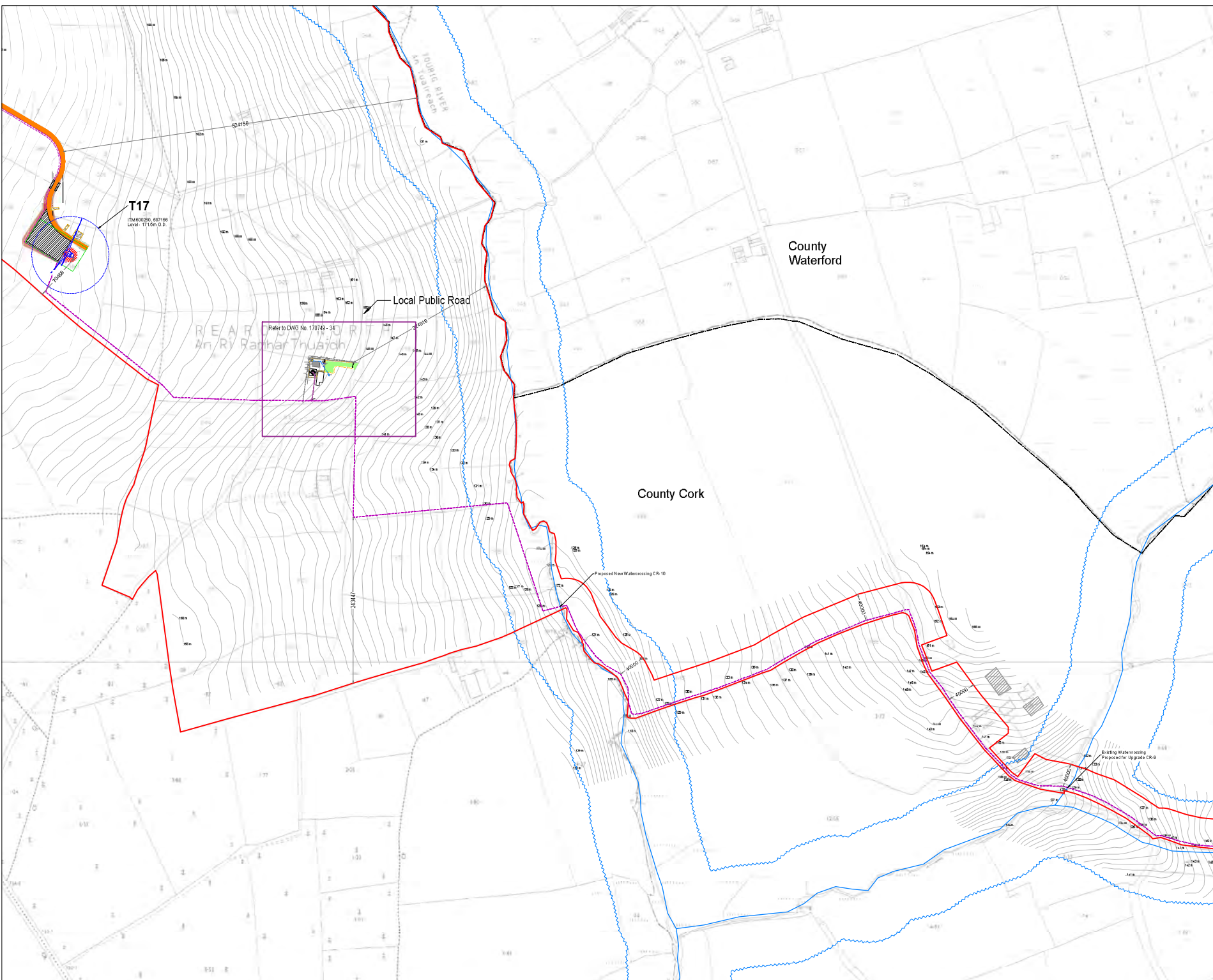
PROJECT NO: **170749** DRAWING NO: **170749 - 10**

SCALE: **1:2,500 @ A1** DATE: **05.01.2021**

CRIBRICE NO: **6508 008 010 011 012 014 016 018 020 022 024**

CRIBRICE URL: **WWW.CRIBRICESURVEY.COM**

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 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
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Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 75m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Handstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Cut
- Fill
- County Border

DRAWING TITLE
Site Layout Plan
Sheet 3 of 11

PROJECT TITLE
Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford

DRAWING BY: Joseph O'Brien **CHECKED BY:** Lorraine Meehan

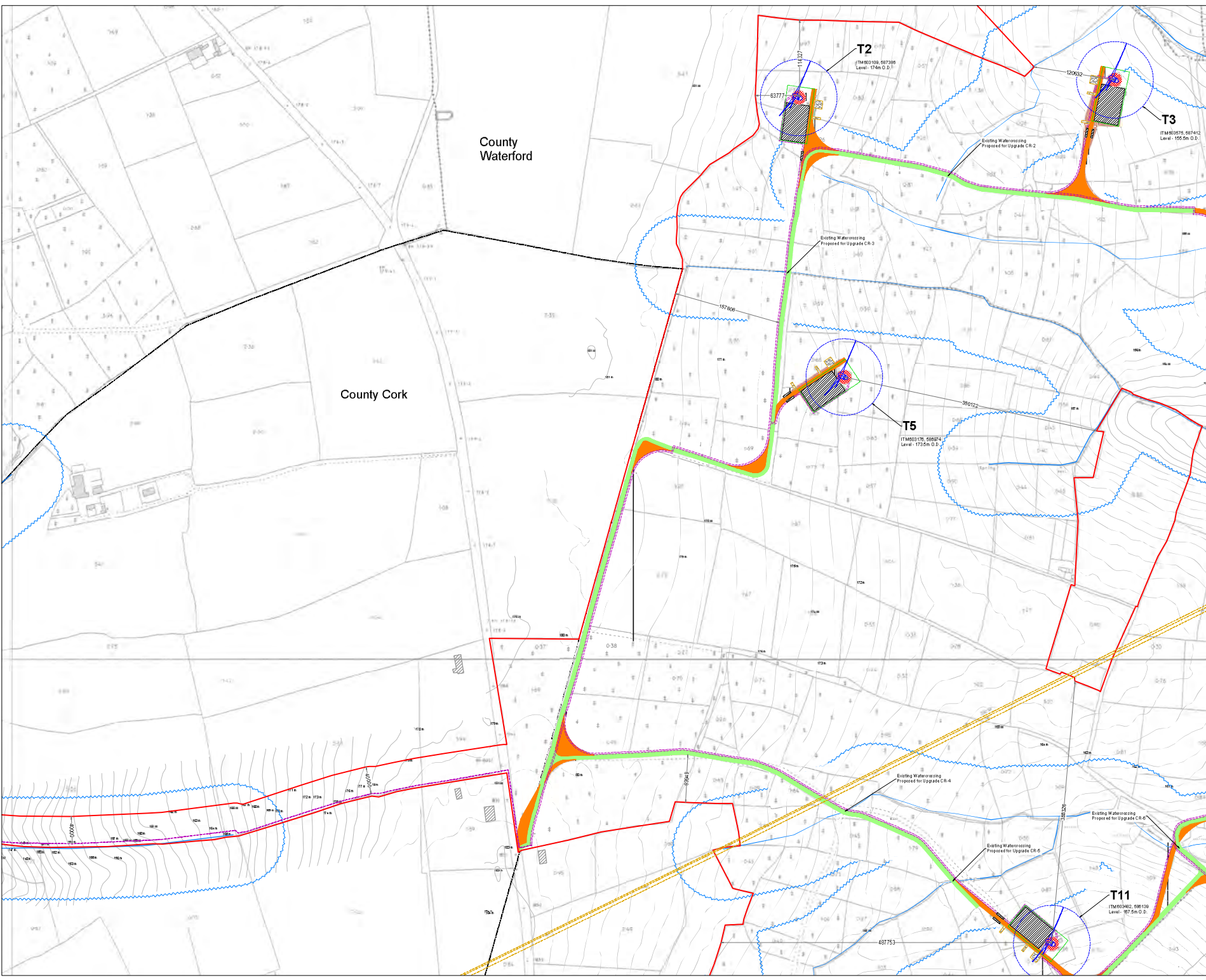
PROJECT NO: 170749 **DRAWING NO:** 170749 - 11

SCALE: 1:2,500 @ A1 **DATE:** 05.01.2021

DWG SHEET NO: 1100, 1101, 1110, 1111, 1112, 1114, 1116, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200

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County Waterford

County Cork

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- Drawing Legend**
- Planning Application Boundary
 - Existing Road to be Upgraded
 - Proposed Road
 - Electrical Cable Trench
 - River/Stream
 - 75m River/Stream Buffer
 - Works Area
 - Soft Levelled Area
 - Crane Pad Handstanding Area
 - Turbine Foundation
 - ⊙ Turbine Sweep Area
 - Cut
 - Fill
 - County Border
 - Existing 110kV Overhead Line



DRAWING TITLE
Site Layout Plan
Sheet 4 of 11

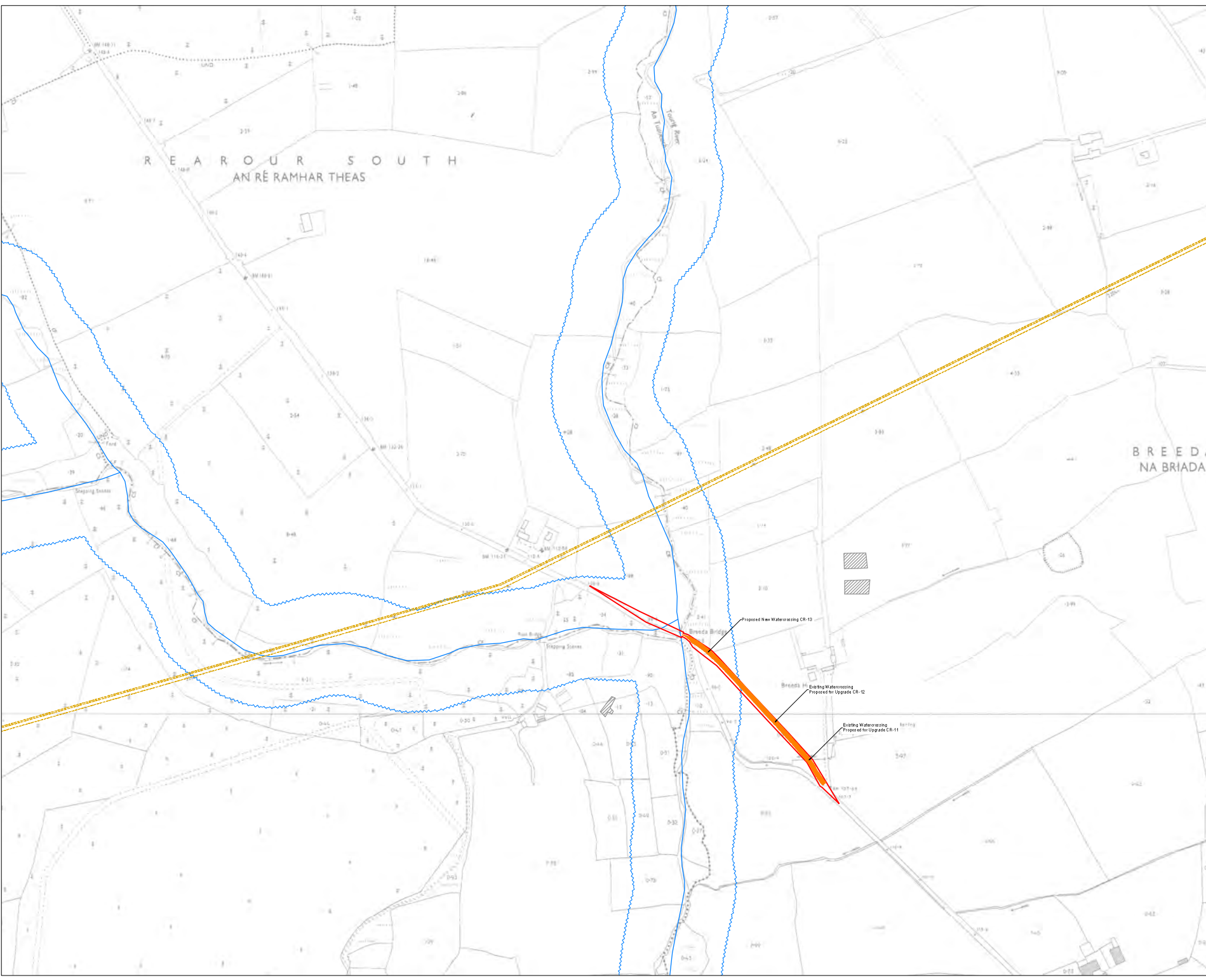
PROJECT TITLE
 Lyrenacarriga Wind Farm,
 Co. Cork & Co. Waterford

DRAWING BY: Joseph O'Brien **CHECKED BY:** Lorrairie Meehan
PROJECT NO: 170749 **DRAWING NO:** 170749 - 12
SCALE: 1:2,500 @ A1 **DATE:** 05.01.2021

DWG SHEET NO.: 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000
 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000

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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.
- Drainage Design Notes**
1. All drainage subject to micro-siting and optimisation on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, stilling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
 5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stilling pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
 7. Check dam designs to be selected best to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader onto which the water will dissipate to have a grade no less than 5%.
 9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stilling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
 10. Stilling ponds to be sized according to the area they will be receiving water from.
 11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
 12. Existing drain ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and maintenance plan.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

- Drawing Legend**
- Planning Application Boundary
 - Proposed Road
 - River/Stream
 - 75m River/Stream Buffer
 - Existing 110kV Overhead Line



DRAWING TITLE
Site Layout Plan
Sheet 5 of 11

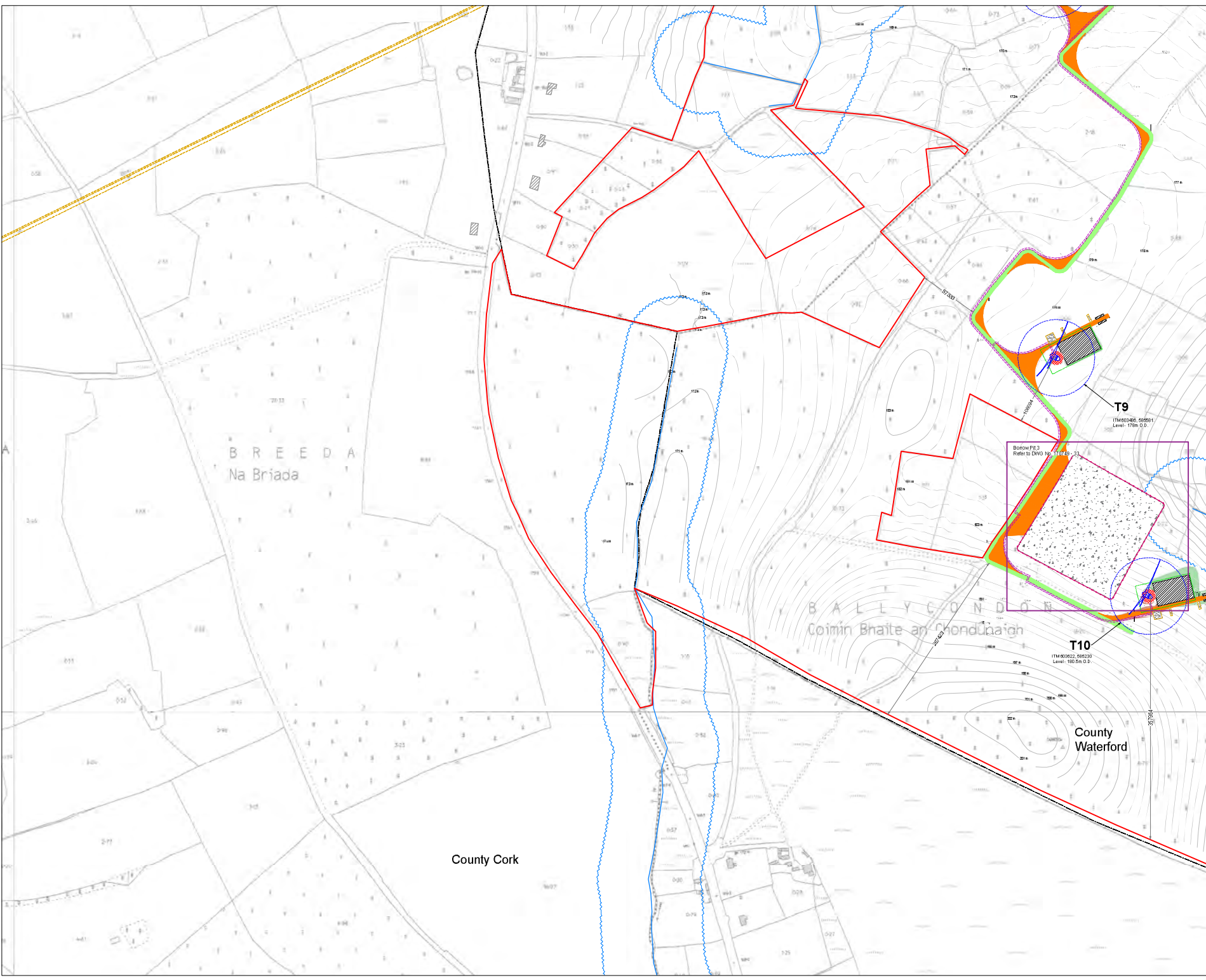
PROJECT TITLE
 Lyencarriga Wind Farm,
 Co. Cork & Co. Waterford

DRAWN BY: Joseph O'Brien	CHECKED BY: Lorraine Meehan
PROJECT NO.: 170749	DRAWING NO.: 170749 - 13
SCALE: 1:2,500 @ A1	DATE: 05.01.2021

DKS SHEET NO.: 1100, 1101, 1110, 1111, 1112, 1114, 1116, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200

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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.

Drainage Design Notes

1. All drainage subject to micro-siting and optimisation on site.
2. The locations of the interceptor drains, check dams, culverts, swales, stiling ponds and level spreaders are shown as indicative, and may be changed to suit the requirements of the local topography.
3. Supervising hydrologist or environmental clerk of works (environmental scientist) to oversee installation of drainage features following detailed drainage design.
4. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
5. Design elevation of the water surface along the route of the interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or stiling pond.
6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are being installed.
7. Check dam designs to be selected best to suit particular topography and hydrological environment.
8. Down gradient slope below level spreader onto which the water will dissipate to have a grade less than 5%.
9. No direct discharge or pumping to watercourses will be permitted. All discharges from level spreaders or stiling ponds to be via vegetated filters. Selection of suitable areas to use as vegetation filters will be determined by the size of the contributing catchment, slope and ground conditions.
10. Stiling ponds to be sized according to the area they will be receiving water from.
11. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same water.
12. Existing drains/ditches to be incorporated or removed during wind farm construction.
13. All drainage system features to be subject of inspection and maintenance plan.
14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.

Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 75m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Turbine Foundation
- Turbine Sweep Area
- Borrow Pit
- Cut
- Fill
- Existing 110kV Overhead Line
- County Border

**Site Layout Plan
Sheet 6 of 11**

PROJECT TITLE
Lyrenacarriga Wind Farm,
Co. Cork & Co. Waterford

DRAWING BY: Joseph O'Brien **CHECKED BY:** Lorraine Meehan

PROJECT NO: 170749 **DRAWING NO:** 170749 - 14

SCALE: 1:2,500 @ A1 **DATE:** 05.01.2021

DWG SHEET NO: 1000 0100 0110 0111 0112 0114 0116 0118 0119 0120 0121 0122 0123 0124 0125 0126 0127 0128 0129 0130 0131 0132 0133 0134 0135 0136 0137 0138 0139 0140 0141 0142 0143 0144 0145 0146 0147 0148 0149 0150 0151 0152 0153 0154 0155 0156 0157 0158 0159 0160 0161 0162 0163 0164 0165 0166 0167 0168 0169 0170 0171 0172 0173 0174 0175 0176 0177 0178 0179 0180 0181 0182 0183 0184 0185 0186 0187 0188 0189 0190 0191 0192 0193 0194 0195 0196 0197 0198 0199 0200

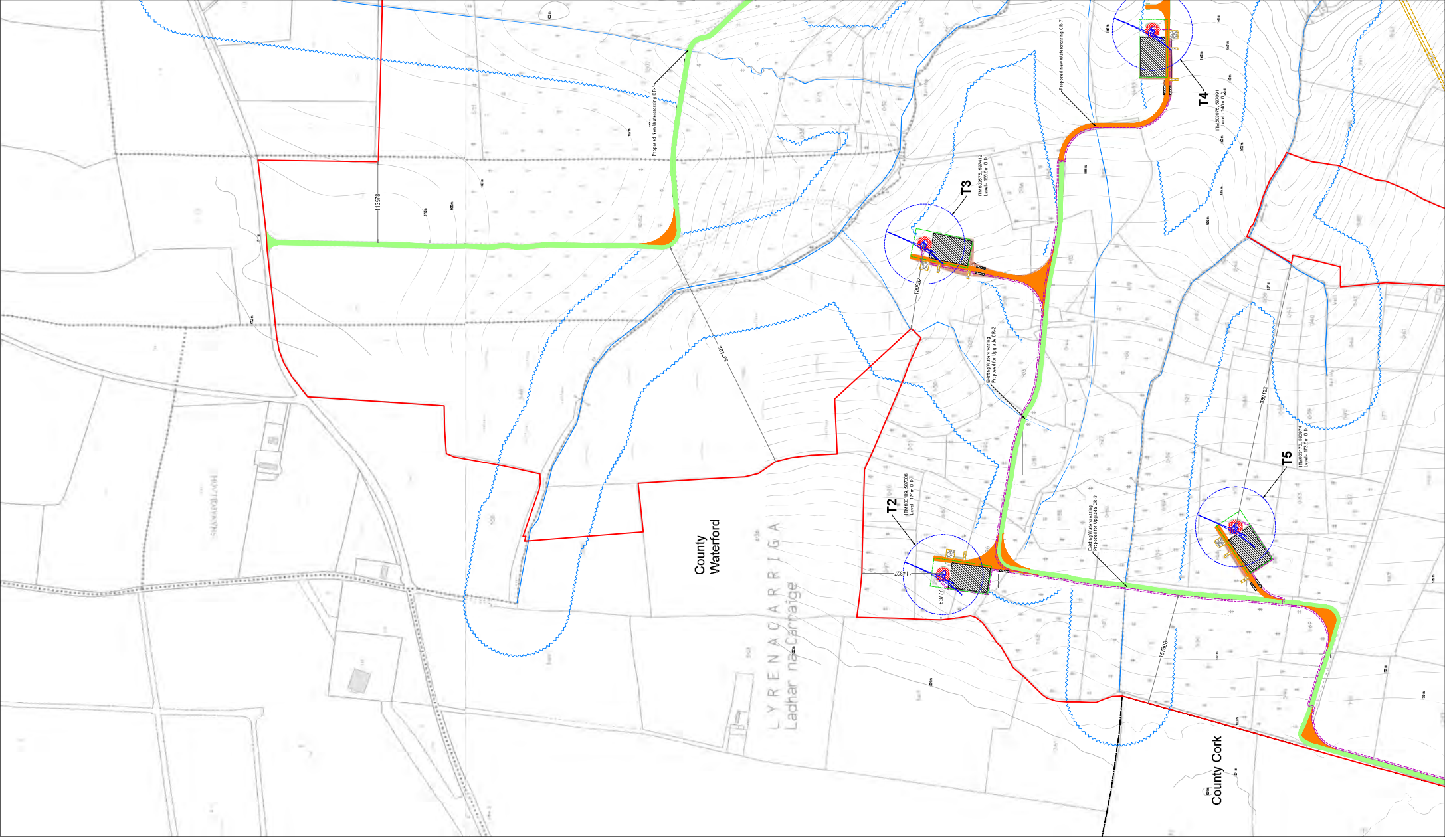
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Website: www.mkofireland.ie

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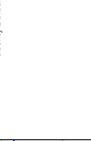
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6. The design is based on the information provided. It is deemed to be the acceptance of these conditions of use unless otherwise agreed in writing, such written agreements to be signed and issued by the client.
7. Layout plans show typical Tubecore rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. All drainage systems to be installed in accordance with the following:
 1. All drainage subject to micro-siting and optimization to site.
 2. The locations of the interceptor drains, check dams, culverts, swales, silted ponds and level spreaders are shown as indicative, subject to change to suit the requirements of the local topography.
 3. Supervising hydrologist or environmental clerk or works engineer to be consulted for the installation of drainage features following detailed drainage design.
 4. Drainage measures to be installed prior to, or at the same time as, any other works to the site.
 5. Interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or silted pond.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
 7. Check dam designs to be selected based to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader into which the water flows to be maintained.
 9. No direct discharge or pumping to watercourses will be permitted.
 10. All discharge from level spreaders or silted ponds to be via silted ponds or suitable areas to use as vegetation swales to filter any sediment before discharge to watercourse, slope and ground conditions.
 11. Silted ponds to be sited according to the area they will be installed in.
 12. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same volume of water.
 13. Existing drain/ditches to be incorporated or removed during wind farm construction.
 14. All drainage system features to be subject of inspection and approval by the local authority.
 15. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.



Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 7.5m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Hoisting Area
- Turbine Foundation
- Turbine Sweeps Area
- Borrow Pit
- Cut
- Fill
- Existing 10kV Overhead Line
- County Boundary



**Site Layout Plan
Sheet 7 of 11**

PROJECT TITLE
**Lyrencarraig Wind Farm,
Co. Cork & Co. Waterford**

DRAWING BY
Joseph O'Brien

CHECKED BY
Lorraine Meehan

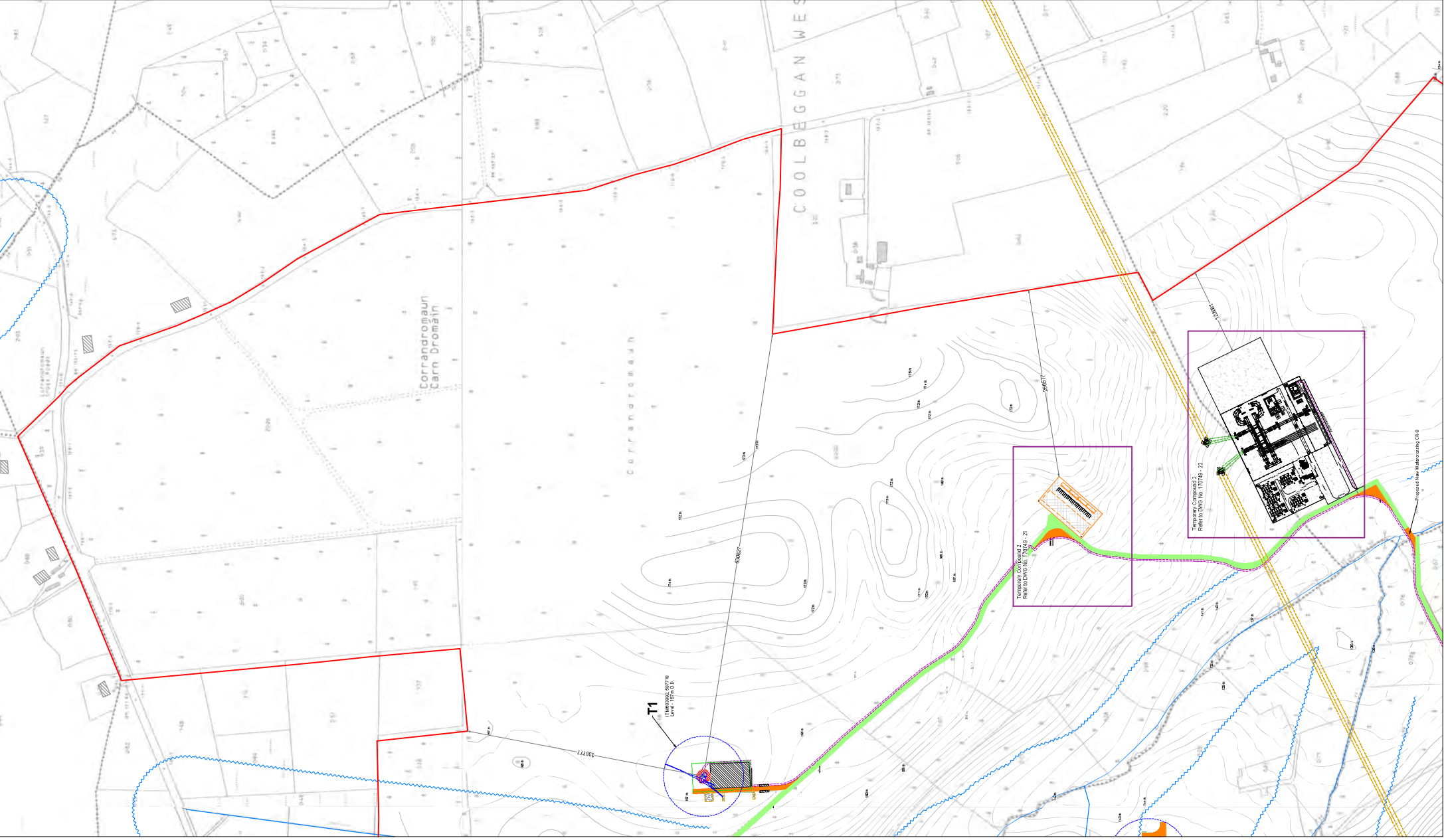
PROJECT NO.
170749

SCALE
1:2,500 @ A1

DATE
05.01.2021

MKO
Planning and
Environmental
Team Paul, Shivey
Ireland, 105, Wexham
Road, Dublin 15
www.mko.ie

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 4. Do not scale off these drawings. Figured metric dimensions only.
 5. All contractors, whether main or sub-contractors, must visit the site and are responsible for reading and checking any and all dimensions and areas that relate to the work.
 6. The design of the drainage system has been prepared to the best acceptance of these conditions of use unless otherwise agreed in writing, such written agreements to be signed from and issued by the client.
 7. Layout plans show typical 150mm sizer diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.
 9. All drainage systems must be designed and installed in accordance with the current standards of best practice.
 10. All drainage subject to micro-siting and optimisation on site.
 11. The locations of the interceptor drains, check dams, culverts, swales, silted ponds and level spreaders are shown as indicative, designed to suit the requirements of the local topography.
 12. All drainage systems are designed to be installed in accordance with the following detailed drainage design.
 13. Supervising hydrographer or environmental clerk of works to inspect and certify the drainage system prior to the work of the drainage system. All drainage measures to be installed prior to, or at the same time as the ground works, and the drainage system must be installed to the specified elevation of the water surface in the outlet silted level spreader or silted pond.
 14. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
 15. Check dam designs to be selected least to suit particular topography and hydrological environment.
 16. Down gradient slope below level spreader into which the water or discharge will be allowed to flow.
 17. All drainage systems must be designed to suit the local topography and hydrological environment.
 18. No direct discharge or pumping to watercourses will be permitted. All discharge from level spreaders or silted ponds to be via silted ponds. Silted ponds or suitable areas to use as vegetation silted ponds, or suitable areas to use as vegetation silted ponds, or suitable areas to use as vegetation silted ponds, or suitable areas to use as vegetation silted ponds.
 19. Silted ponds to be spaced according to the topography, slope and ground conditions.
 20. Silted ponds to be spaced according to the topography, slope and ground conditions.
 21. Diversion of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same flow.
 22. Existing drain ditches to be incorporated or removed during construction.
 23. All drainage system features to be subject of inspection and approval by the planning authority.
 24. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.



Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 75m River/Stream Buffer
- Wetland Area
- Soil Levelled Area
- Crane Pad Horizontal Area
- Turbine Foundation
- Turbine Sweep Area
- Turbine Area
- Cut
- Fill
- Existing 10kV Overhead Line

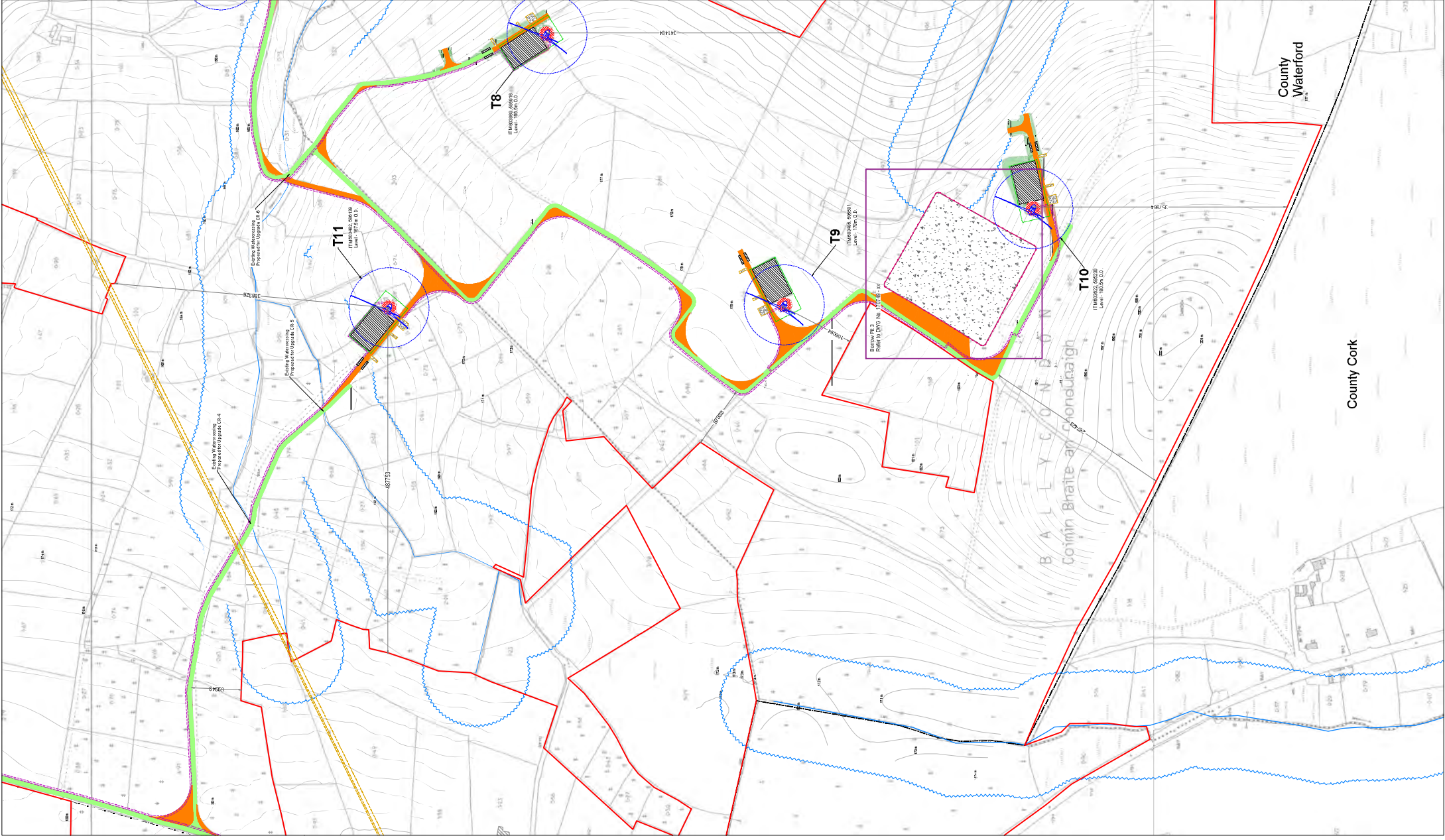


Site Layout Plan Sheet 8 of 11			
Drawing Title			
PROJECT TITLE Lyracarrige Wind Farm, Co. Cork & Co. Waterford			
DRAWING BY Joseph O'Brien	CHECKED BY Lorraine Meehan	DATE 17/07/19 - 16/08/2021	
PROJECT NO. 110749		SCALE 1:2,500 @ A1	
DRAWN BY: JOSEPH O'BRIEN CHECKED BY: LORRAINE MEEHAN DATE: 17/07/19 - 16/08/2021			
MKO Planning and Environmental Town Road, Glenageary Dublin 9, D18 XN54 Tel: 01889 60606 www.mkofireland.ie			

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6. Existing and new drainage systems on the site. It is the responsibility of the contractor to ensure that the works are done in accordance with the conditions of use unless otherwise agreed in writing, such written agreements to be signed from and issued by the contractor.
7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. All drainage systems to be installed in accordance with the following:
 1. All drainage subject to micro-siting and optimization on site.
 2. The locations of the interceptor drains, check dams, culverts, swales, silted ponds and level spreaders are shown as indicative, subject to suit the requirements of the local topography.
 3. Superimposed hydrograph or environmental data or works to be installed prior to, or at the same time as any other works are they are intended to drain.
 4. Drainage measures to be installed prior to, or at the same time as any other works are they are intended to drain.
 5. Interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or turbine.
 6. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
 7. Check dam designs to be selected least to suit particular topography and hydrological environment.
 8. Down gradient slope below level spreader into which the water is discharged.
 9. No direct discharge or pumping to watercourses will be permitted. All discharge from level spreaders or silted ponds to be via vegetated swales. Swales or suitable areas to use as vegetation swales to be installed in accordance with the requirements of the local topography.
 10. Silted ponds to be sited according to the area they will be used for.
 11. Direction of drainage ditches will only take place when alternative drainage which has been installed or removed during wind farm construction.
 12. Existing drain/ditches to be incorporated or removed during wind farm construction.
 13. All drainage system features to be subject of inspection and approval by the local authority.
 14. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.



Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 7.5m River/Stream Buffer
- Works Area
- Soft Levelled Area
- Crane Pad Hoisting Area
- Turbine Foundation
- Turbine Swept Area
- Borrow Pit
- Cut
- Fill
- Existing 10kV Overhead Line
- County Boundary

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N

Site Layout Plan Sheet 9 of 11

PROJECT TITLE: Lyrencariga Wind Farm,
Co. Cork & Co. Waterford

DRAWING BY: Joseph O'Brien
PROJECT: 170749
SCALE: 1:2,500 @ A1

CHECKED BY: Lorraine Meehan
DATE: 05.01.2021
DWG NO: 170749_001

DT SHEET No.: 001
DT SHEET No.: 002
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DT SHEET No.: 020

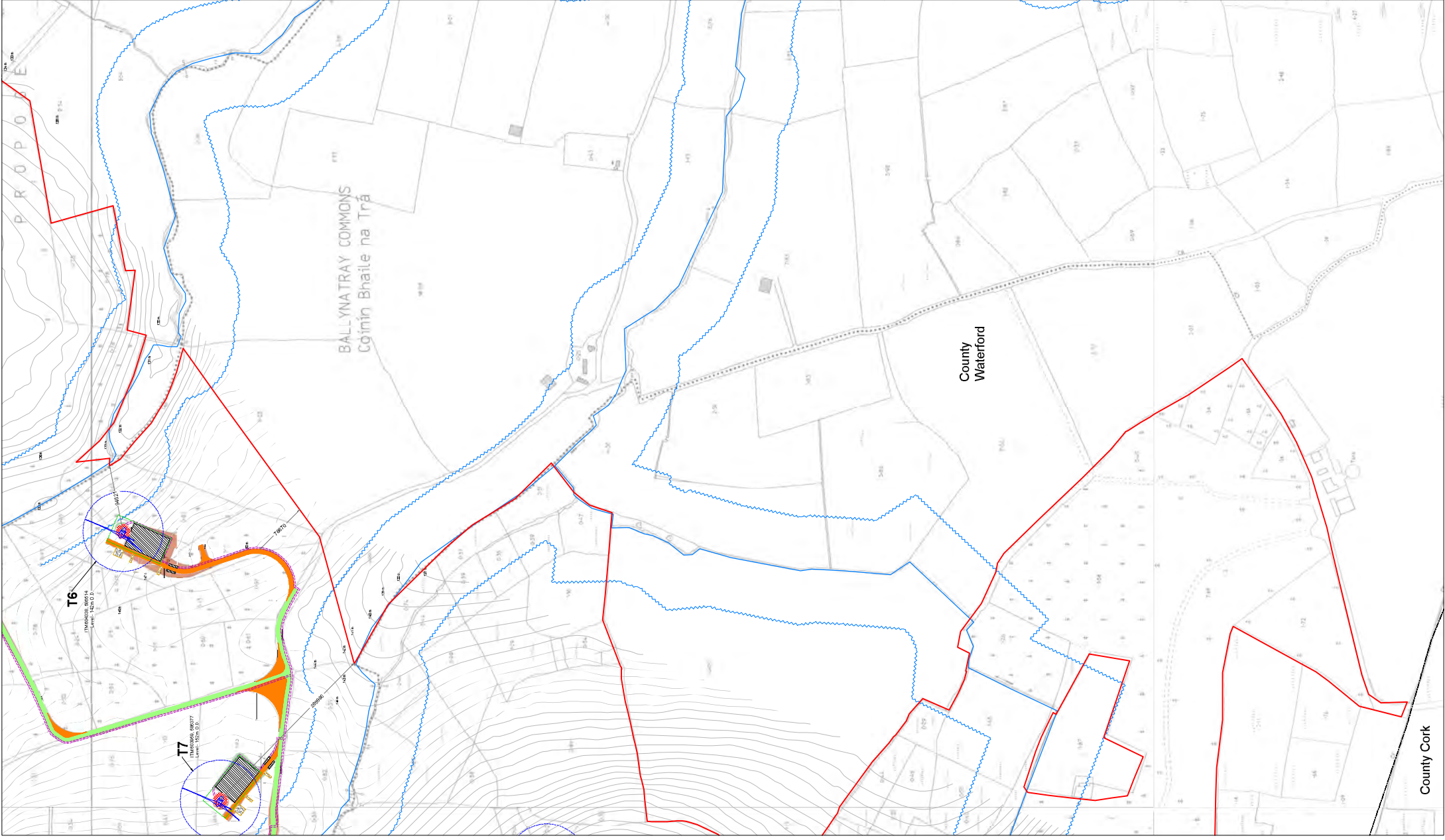
County Waterford

County Cork

MKO
Planning and Environmental
Team: Paul, Shirey
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Website: www.mkocorp.com

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6. The design is based on the information provided to the design team, the acceptance of these conditions of use unless otherwise agreed in writing, such written agreements to be signed from and issued by the client.
7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.
9. All drainage subject to micro-siting and optimization on site.
10. The locations of the interceptor drains, check dams, culverts, swales, silted ponds and level spreaders are shown as indicative, subject to change to suit the requirements of the local topography.
11. Supervising hydrologist or environmental clerk of works to be engaged to provide the installation of drainage features following detailed drainage design.
12. Drainage measures to be installed prior to, or at the same time as the works areas they are intended to drain.
13. Interceptor drains or swales will not be lower than the design elevation of the water surface in the outlet at the level spreader or check dam.
14. The spacing and frequency of the check dams will be dependent on the gradient of the interceptor drain or swale in which they are installed.
15. Check dam designs to be selected best to suit particular topography and hydrological environment.
16. Down gradient slope below level spreader into which the water is discharged or into which the water is pumped to be permitted.
17. No direct discharge or pumping to watercourses will be permitted.
18. All discharge from level spreaders or silted ponds to be via separate by-pass. Swales or suitable areas to use as vegetation strip to filter runoff to watercourse.
19. No direct discharge to any watercourse.
20. Silted ponds to be sited according to the area they will be draining.
21. Direction of drainage ditches will only take place when alternative drainage ditch has been installed to handle the same volume of runoff.
22. Existing drainage ditches to be incorporated or removed during wind farm construction.
23. All drainage system features to be subject of inspection and approval by the local authority.
24. The layout shown is slightly offset for scale purposes, and all drainage would be installed as close to the road as possible.



Drawing Legend

- Planning Application Boundary
- Existing Road to be Upgraded
- Proposed Road
- Electrical Cable Trench
- River/Stream
- 7.5m River/Stream Buffer
- Woods Area
- Soft Levelled Area
- Crane Pad Handstanding Area
- Turbine Foundation
- Turbine Sweeps Area
- Cut
- Fill
- County Border



DRAWING TITLE
**Site Layout Plan
 Sheet 10 of 11**

PROJECT TITLE
**Lyreacarriga Wind Farm,
 Co. Cork & Co. Waterford**

DRAWN BY
 Joseph O'Brien

CHECKED BY
 Lorraine Meehan

SCALE
 1:2,500 @ A1

DATE
 05.01.2021

DT NUMBER
 170749 - 18

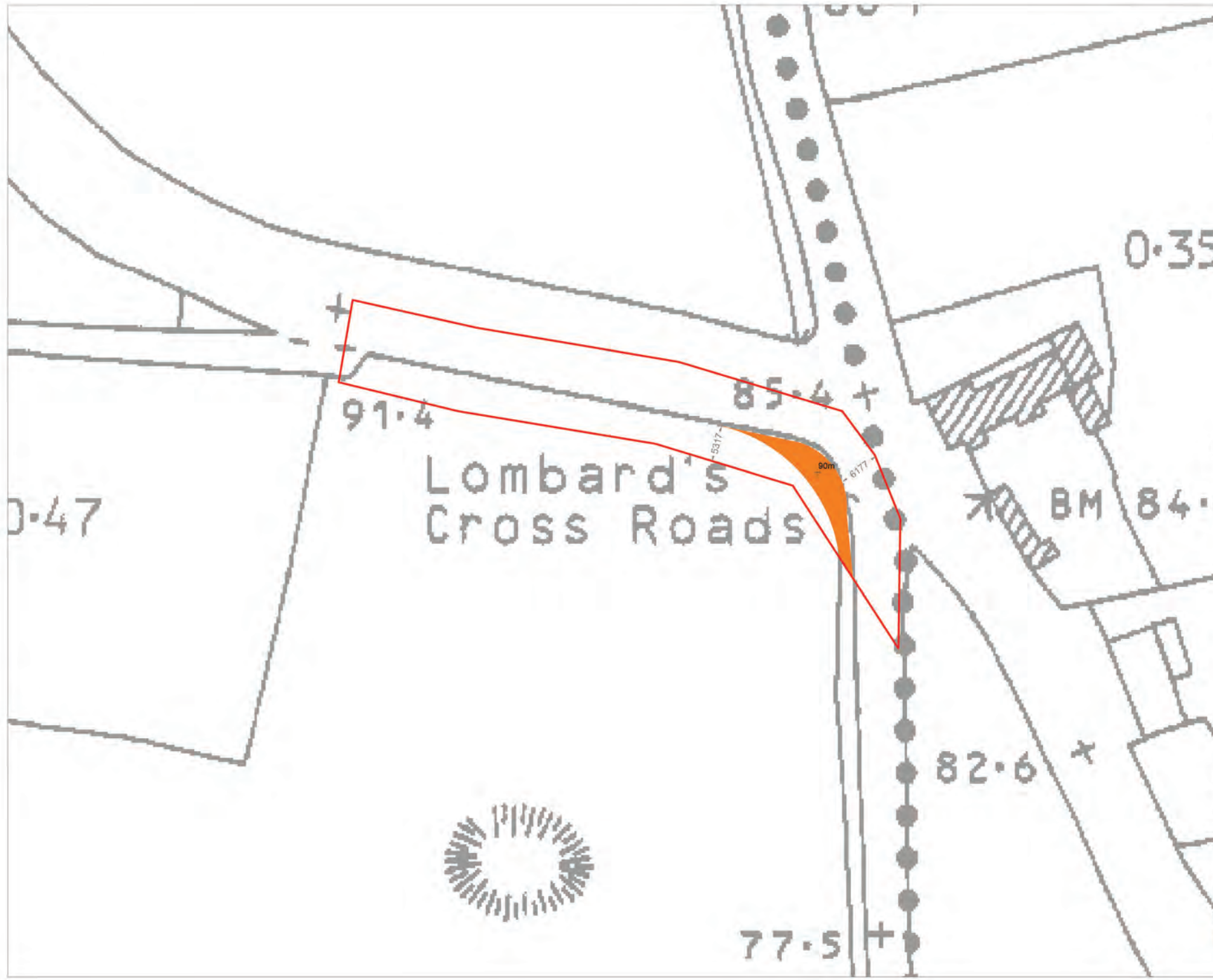
DT NUMBER
 170749 - 18

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 Website: www.mkoltd.com

County Cork

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



Drawing Legend

- Planning Application Boundary
- Proposed Road



Site Layout Plan Sheet 11 of 11

Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford

DRAWN BY: Joseph O'Brien	CHECKED BY: Lorraine Meehan
PROJECT NO: 170749	DRAWING NO: 170749 - 19
SCALE: 1:500 @ A3	DATE: 05.01.2021

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