

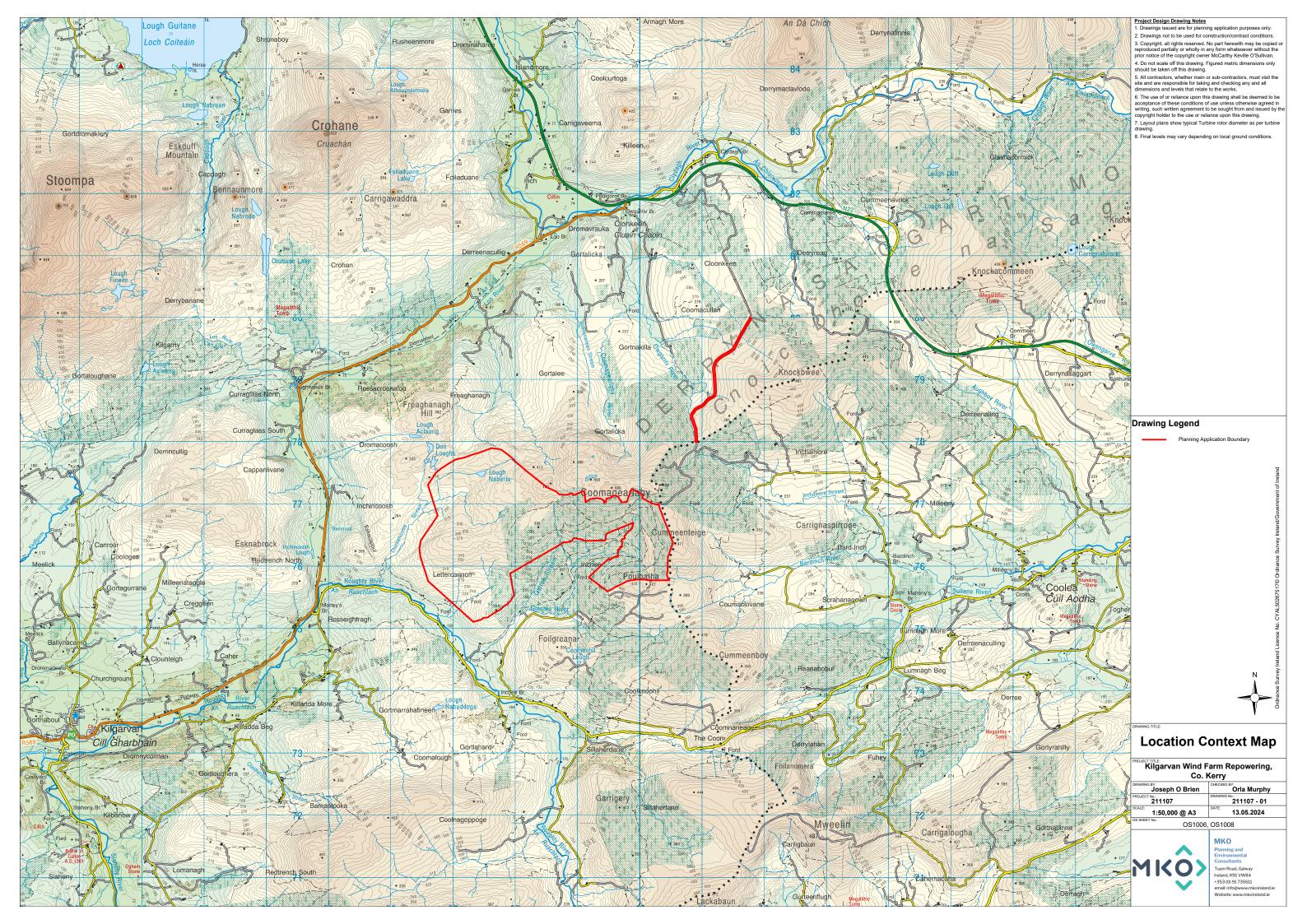
Kilgarvan Wind Farm Repowering, Co. Kerry Planning Permission Application Drawings

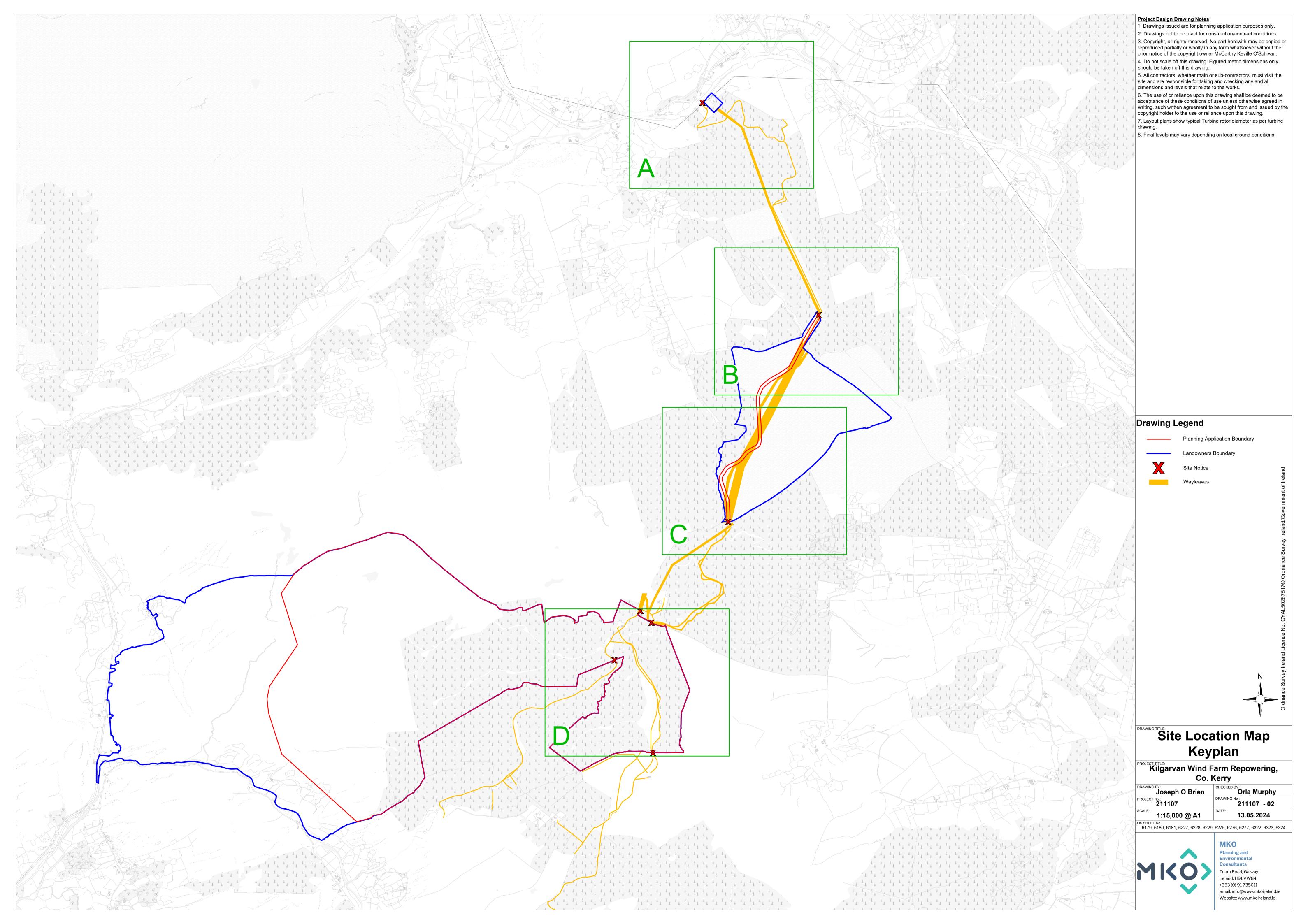




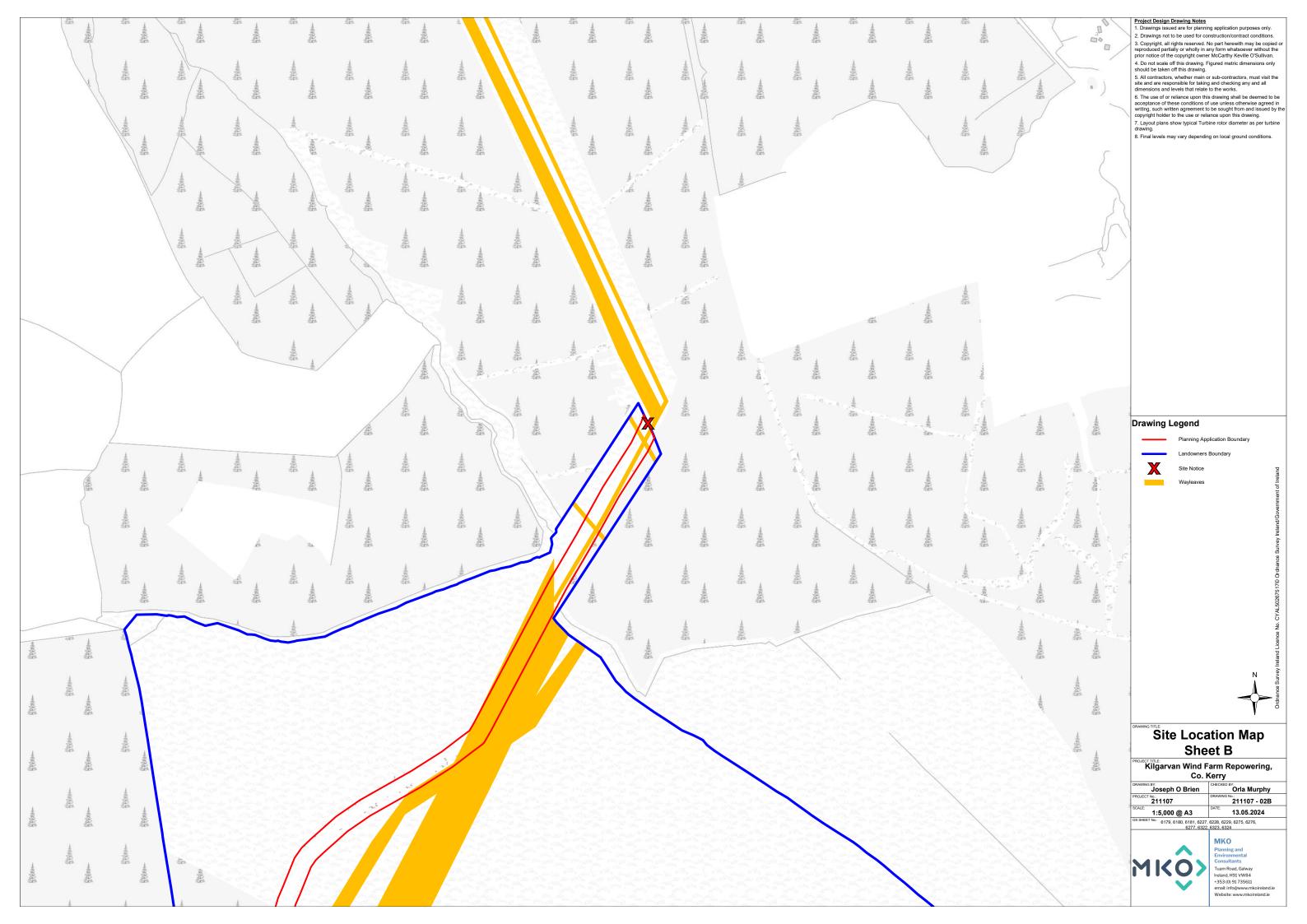
Schedule of Drawings

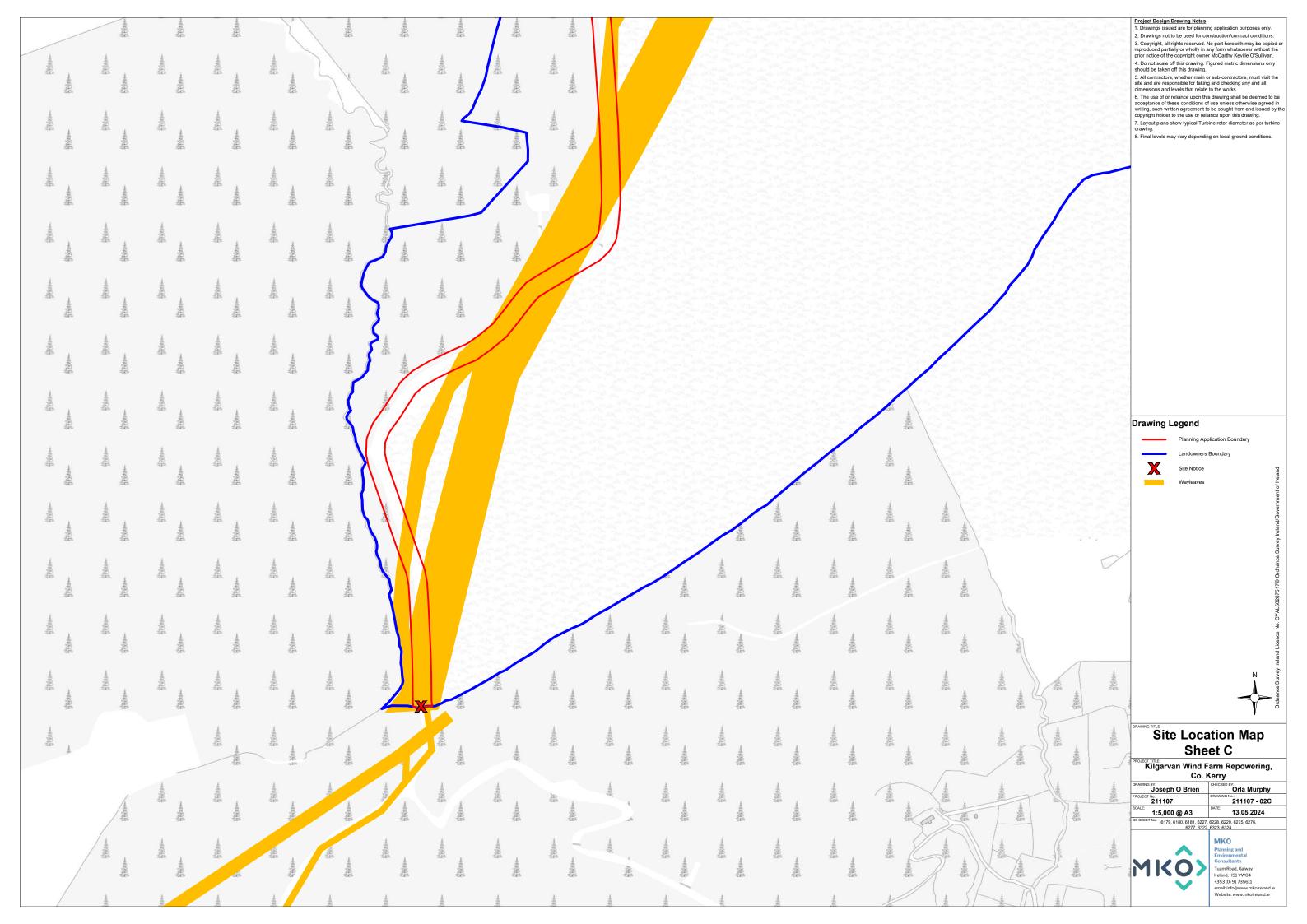
| Drawing No. | Drawing Title | Scale | Page Size |
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| 211107 – 01 | Location Context Map | 1: 50,000 | A3 |
| 211107 – 02 | Site Location Map | 1: 15,000 | A1 |
| 211107 – 02a | Site Location Map A | 1: 5,000 | A3 |
| 211107 – 02b | Site Location Map B | 1: 5,000 | A3 |
| 211107 – 02c | Site Location Map C | 1: 5,000 | A3 |
| 211107 – 02d | Site Location Map D | 1: 5,000 | A3 |
| 211107 – 03 | Site Layout Key Plan (1:5,000) | 1: 15,000 | A1 |
| 211107 – 04 | Site Layout Plan Sheet 1 of 3 | 1: 5,000 | A1 |
| 211107 – 05 | Site Layout Plan Sheet 2 of 3 | 1: 5,000 | A1 |
| 211107 – 06 | Site Layout Plan Sheet 3 of 3 | 1: 5,000 | A1 |
| 211107 – 07 | Site Layout Key Plan (1:2,500) | 1: 15,000 | A1 |
| 211107 – 08 | Site Layout Plan Sheet 1 of 8 | 1: 2,500 | A1 |
| 211107 - 09 | Site Layout Plan Sheet 2 of 8 | 1: 2,500 | A1 |
| 211107 – 10 | Site Layout Plan Sheet 3 of 8 | 1: 2,500 | A1 |
| 211107 – 11 | Site Layout Plan Sheet 4 of 8 | 1: 2,500 | A1 |
| 211107 – 12 | Site Layout Plan Sheet 5 of 8 | 1: 2,500 | Al |
| 211107 – 12 | Site Layout Plan Sheet 6 of 8 | | Al |
| 211107 – 13 | | 1: 2,500 | |
| | Site Layout Plan Sheet 7 of 8 | 1: 2,500 | A1 |
| 11107 - 15 | Site Layout Plan Sheet 8 of 8 | 1: 2,500 | A1 |
| 11107 - 16 | Turbine 1 Layout | 1:500 | A3 |
| 11107 – 17 | Turbine 2 Layout | 1:500 | A3 |
| 11107 – 18 | Turbine 3 Layout | 1:500 | A3 |
| 211107 – 19 | Turbine 4 Layout | 1:500 | A3 |
| 11107 – 20 | Turbine 5 Layout | 1:500 | A3 |
| 11107 – 21 | Turbine 6 Layout | 1:500 | A3 |
| 11107 – 22 | Turbine 7 Layout | 1:500 | A3 |
| 211107 – 23 | Turbine 8 Layout | 1:500 | A3 |
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| 11107 – 25 | Turbine 10 Layout | 1:500 | A3 |
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| 211107 – 27 | Wind Turbine Range Elevations & Plan | 1:500 | A1 |
| 211107 – 28 | 122.5m hub and 77.5m blade Wind Turbine Elevations & Plan | 1:500 | A1 |
| 11107 – 29 | 118m hub and 81.5m blade Wind Turbine Elevations & Plan | 1:500 | A1 |
| 211107 – 30 | 125m hub and 74.5m blade Wind Turbine Elevations & Plan | 1:500 | A1 |
| 11107 – 31 | Temporary Construction Compound 1 | 1:500 | A3 |
| 11107 – 32 | Temporary Construction Compound 2 | 1:500 | A3 |
| 11107 – 33 | Met Mast - FreeStanding Mast | 1:500 | A3 |
| 11107 – 34 | Existing Site | 1: 20,000 | A3 |
| 11107 – 35 | Proposed Infrastructure | 1: 20,000 | A3 |
| 11107 – 36 | Signage Detail | 1:20 | A3 |
| 11107 - 37 | Site Office & Staff Facilities Detail | 1:50 | A3 |
| 11107 - 39 | 33kV Cable Trench Sections | 1:10 | A3 |
| 11107 - 39 | 33kV Cable Trench Section | 1:20 | A3 |
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| Drawing No. | Drawing Title | Scale | Page Size |
| 2022 GDG ZZ -XX DR C 0001-FI-01 | Borrow pit plan and sections | As shown | A1 |
| 2022 GDG ZZ XX DR C 0010-FI-00 | Cross sectionThrough general access track details | 1:25 | A1 |
| 0101 | Proposed Drainage Layout | 1:2,000 | A1 |
| 0102 | Proposed Drainage Layout | 1:2,000 | A1 |
| 0103 | Proposed Drainage Layout | 1:2,000 | A1 |
| 0104 | Proposed Drainage Layout | 1:2,000 | A1 |
| 0105 | Proposed Drainage Layout | 1:2,000 | A1 |
| 0106 | Proposed Drainage Layout | 1:2,000 | Al |
| 0107 | Proposed Drainage Layout | 1:2,000 | Al |
| 0108 | Proposed Drainage Layout Proposed Drainage Layout | 1:2,000 | Al |
| D501 | Drainage Details 1 | As Shown | Al |
| | | As Shown As Shown | |
| 0502 | Drainage Details 2 | | Al |
| D503 | Drainage Details 3 Proposed Substation Compound – Elevation View Option 2 | As Shown 1:70 | A1 A1 |

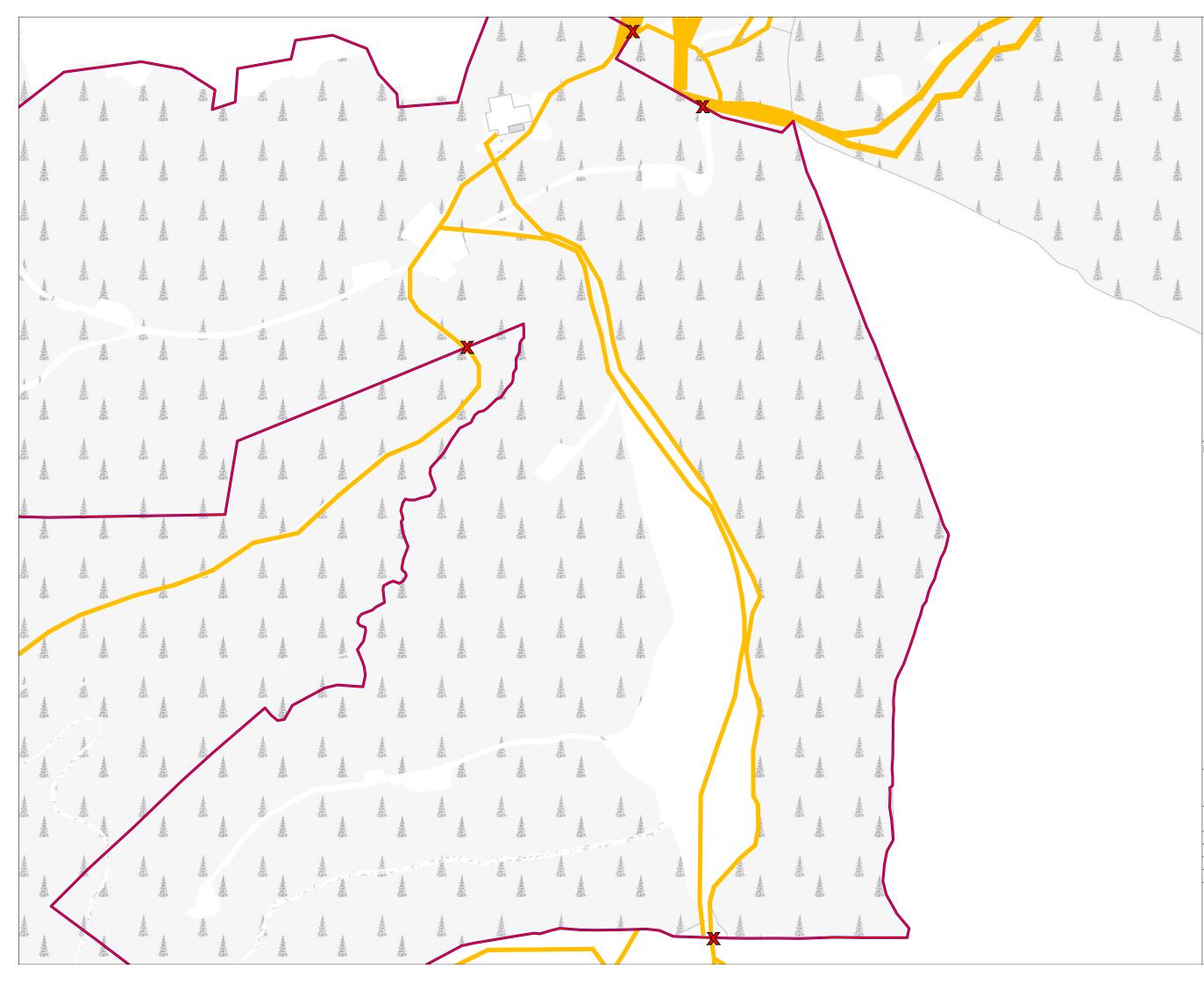












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 7. Layout plans show typical Turbine rotor diameter as per turbine
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend



Landowners Boundary Site Notice

Planning Application Boundary

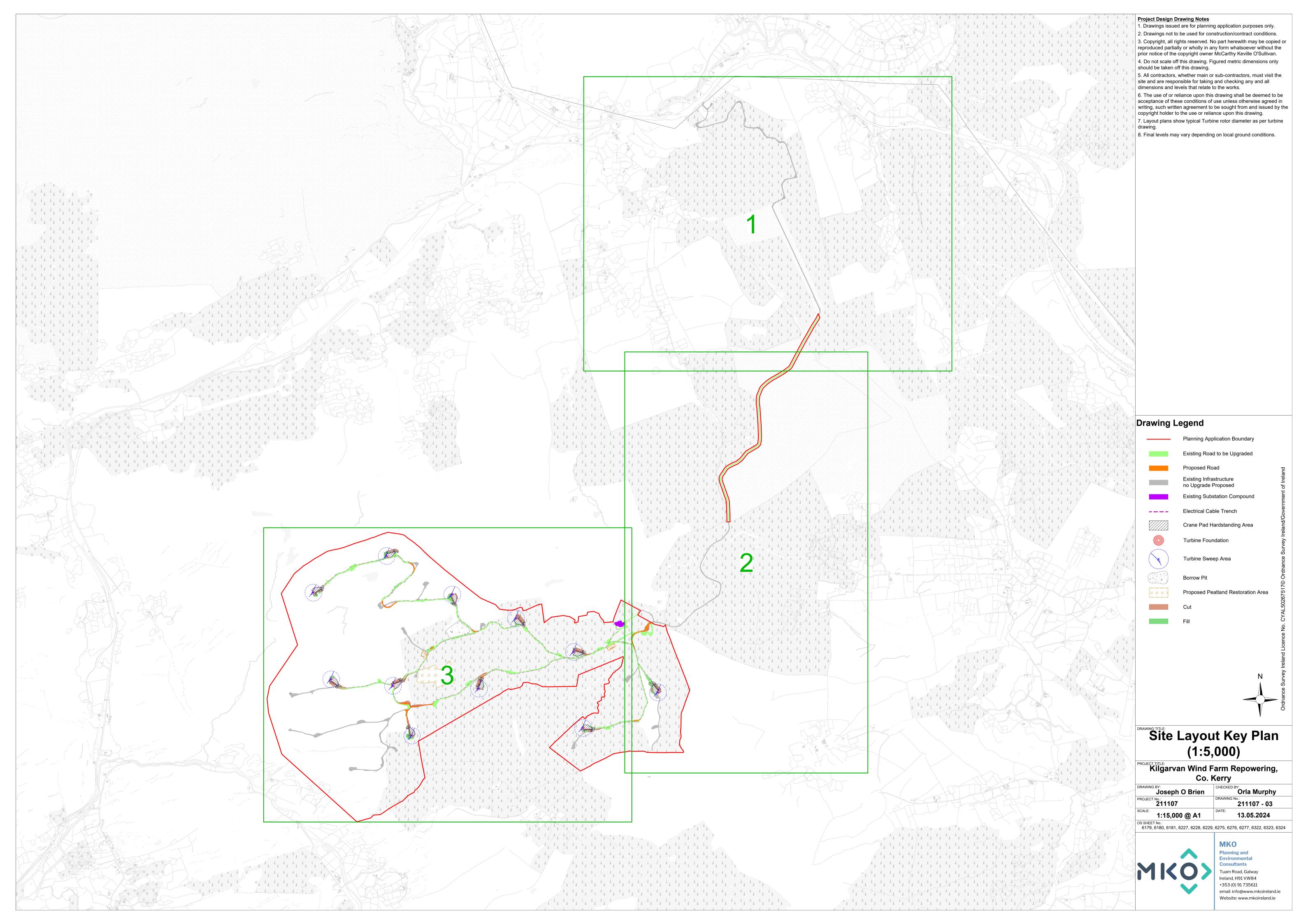


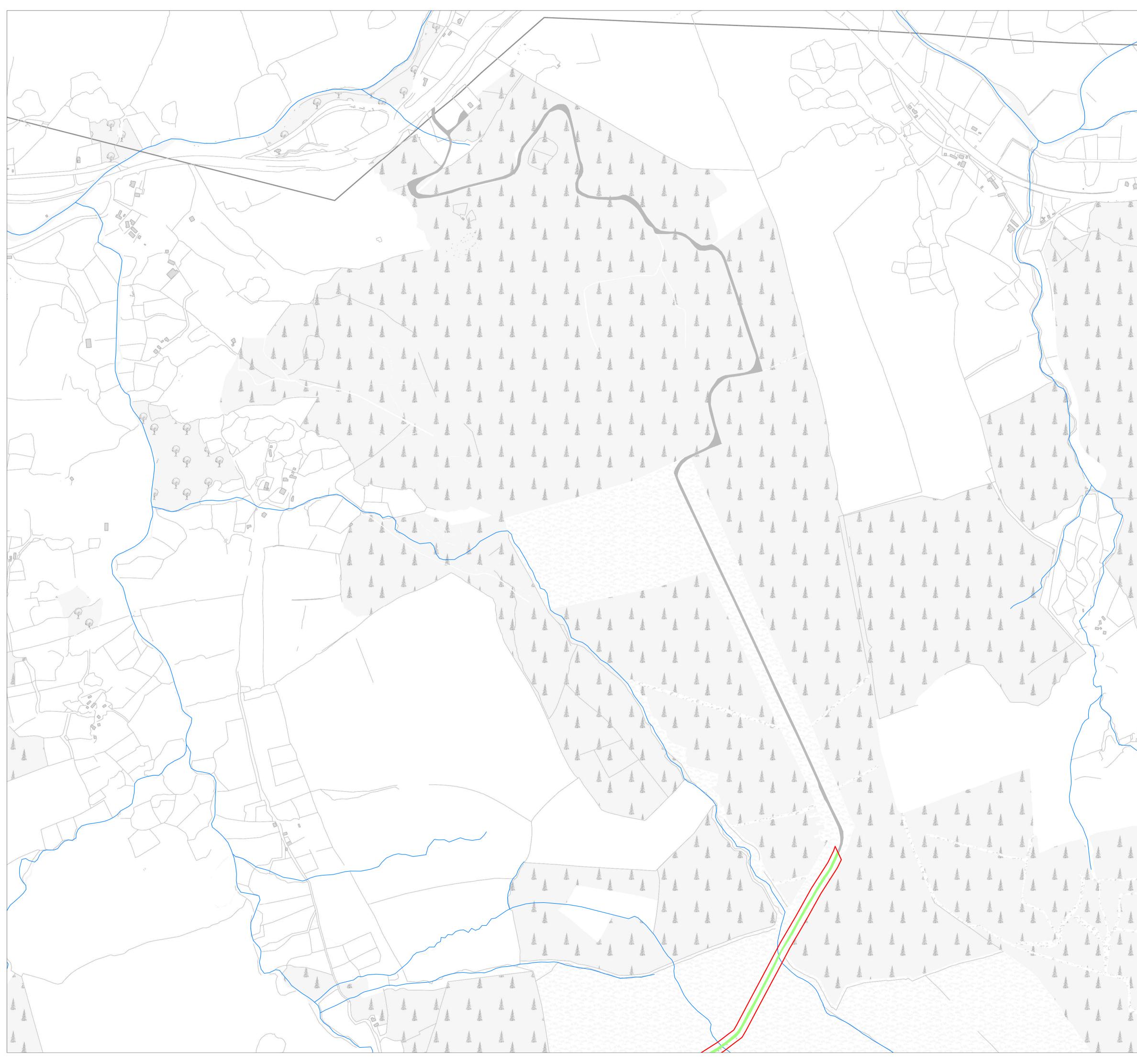
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Site Location Map Sheet D Kilgarvan Wind Farm Repowering, Co. Kerry Joseph O Brien Orla Murphy 211107 ^{№.}. 211107 - 02D
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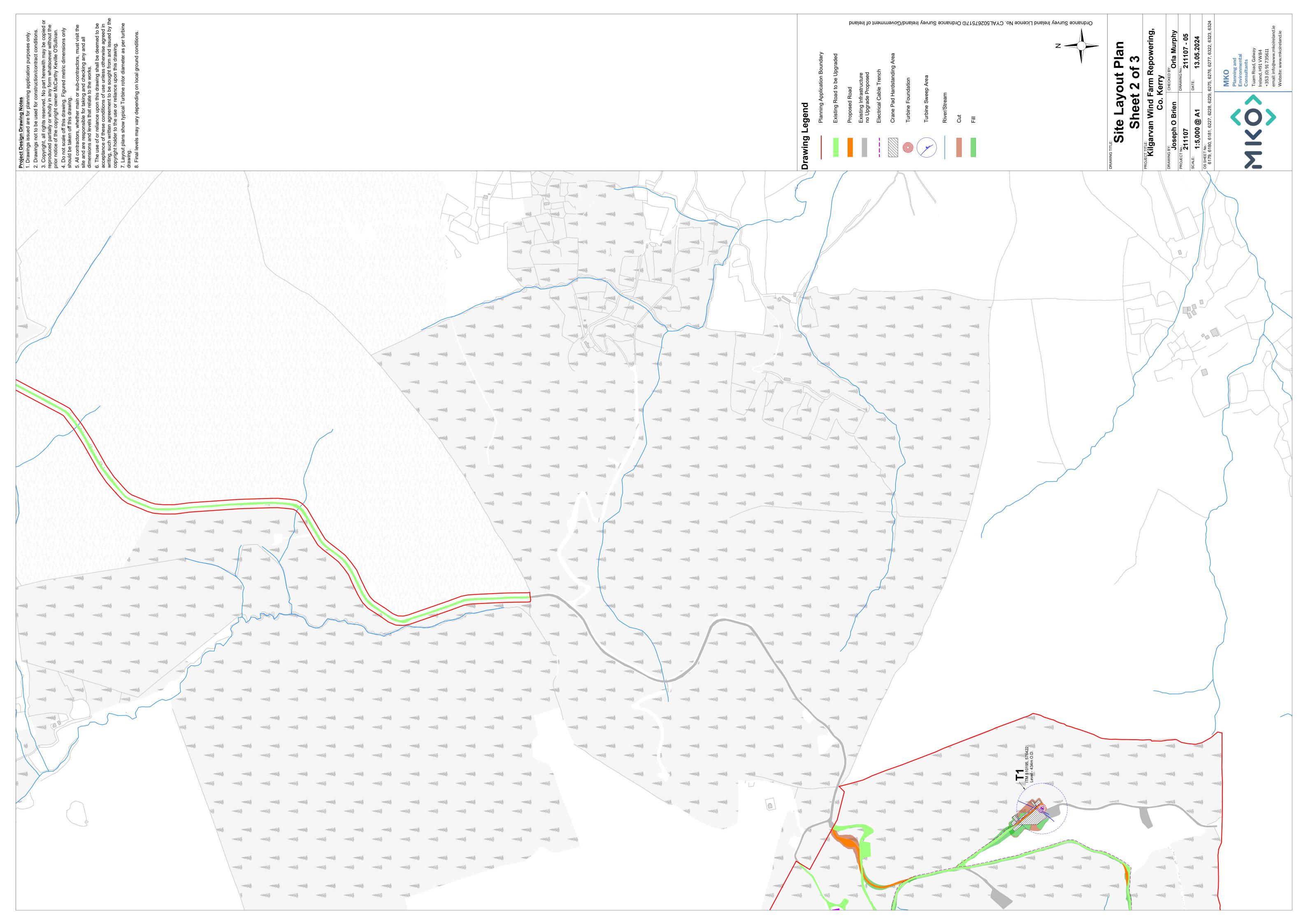
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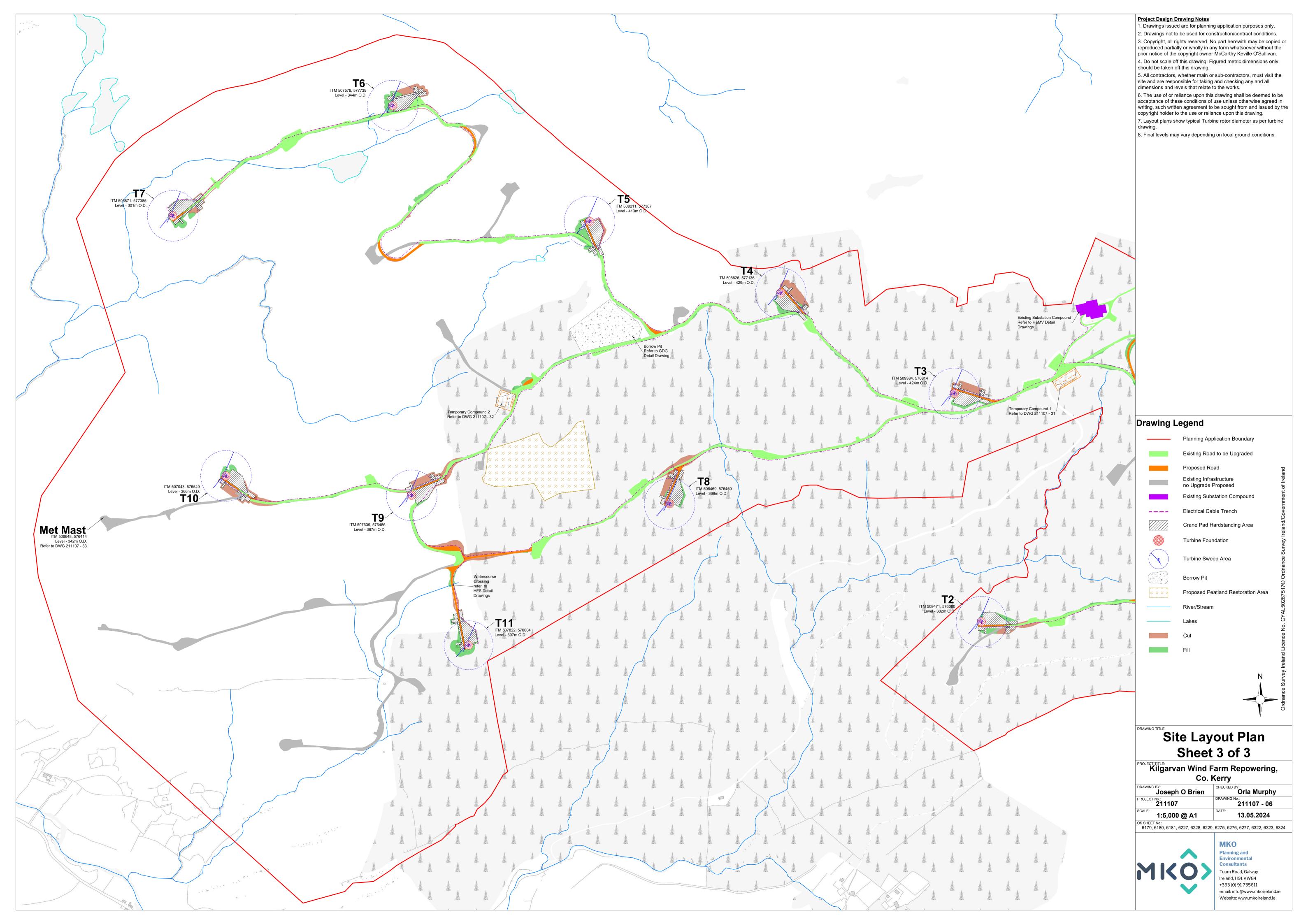
мко́> Consultants Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie V

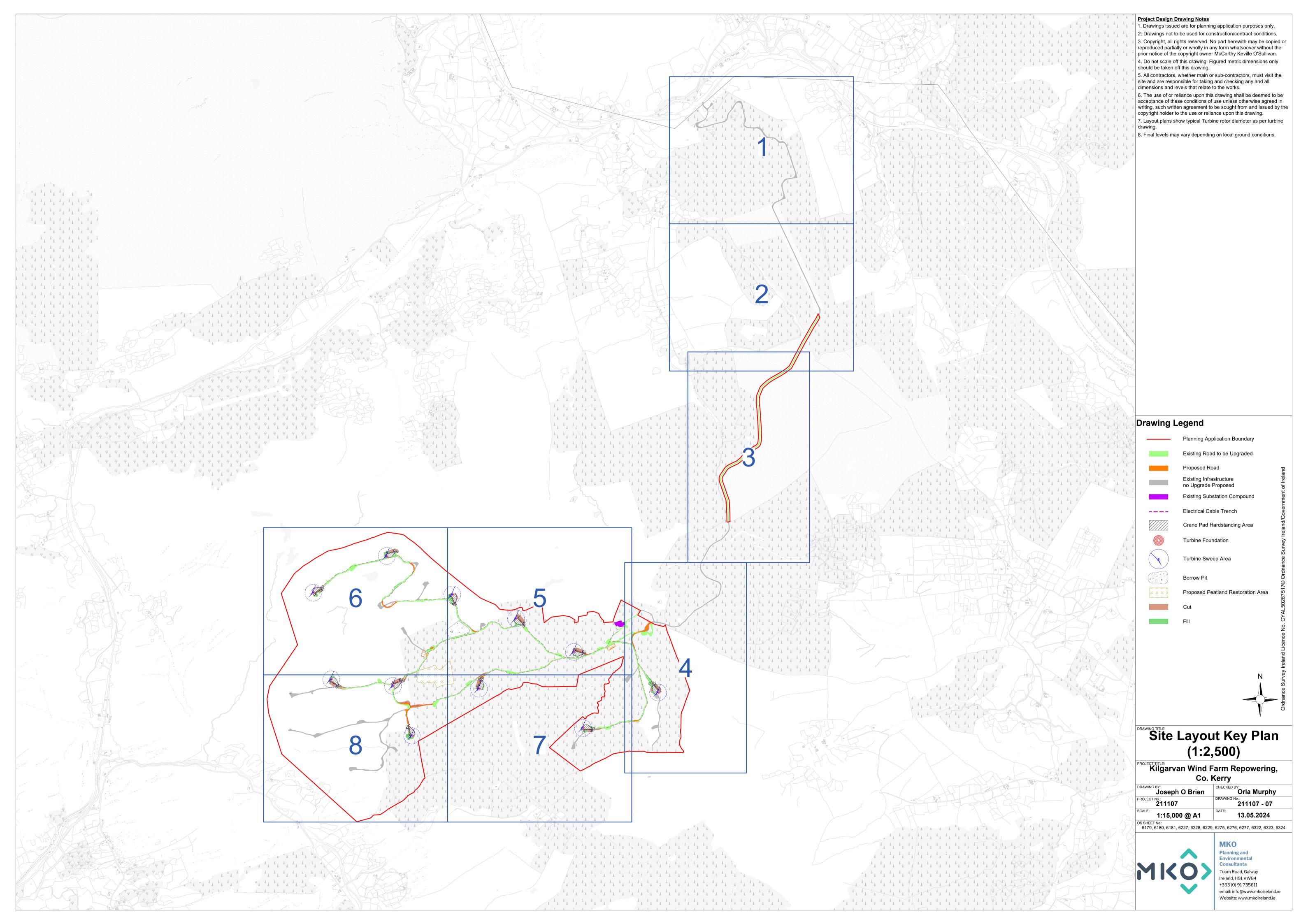




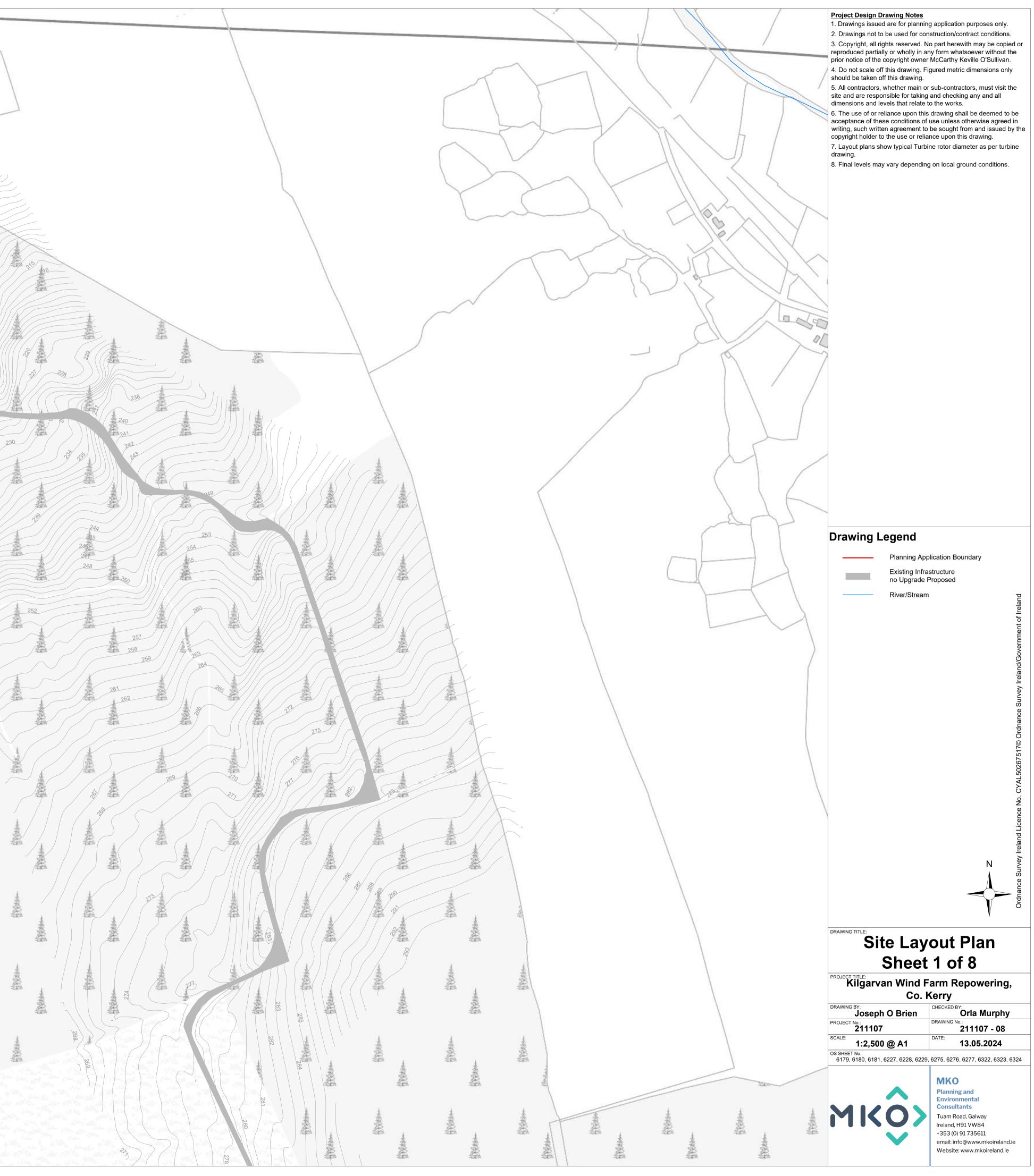
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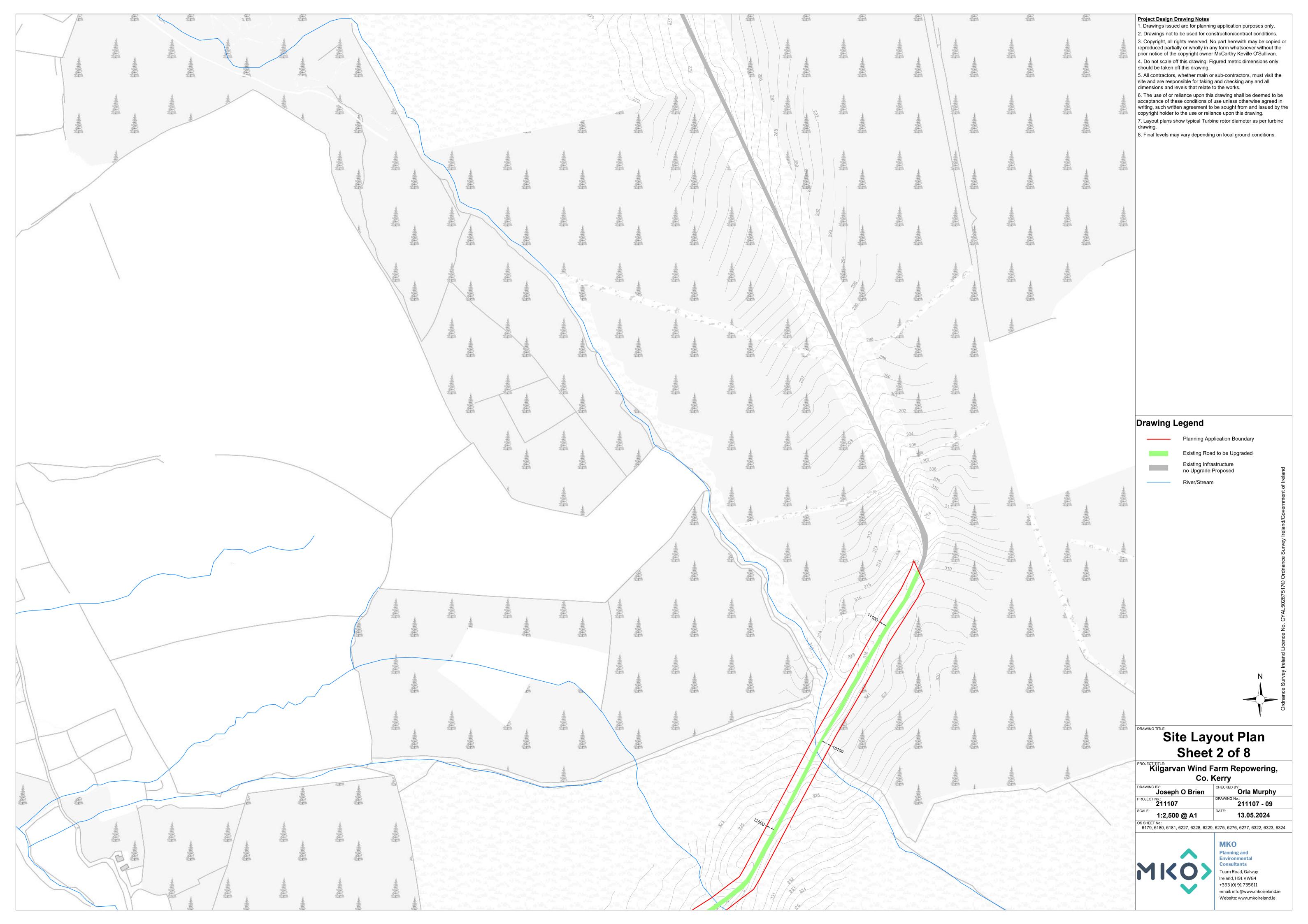


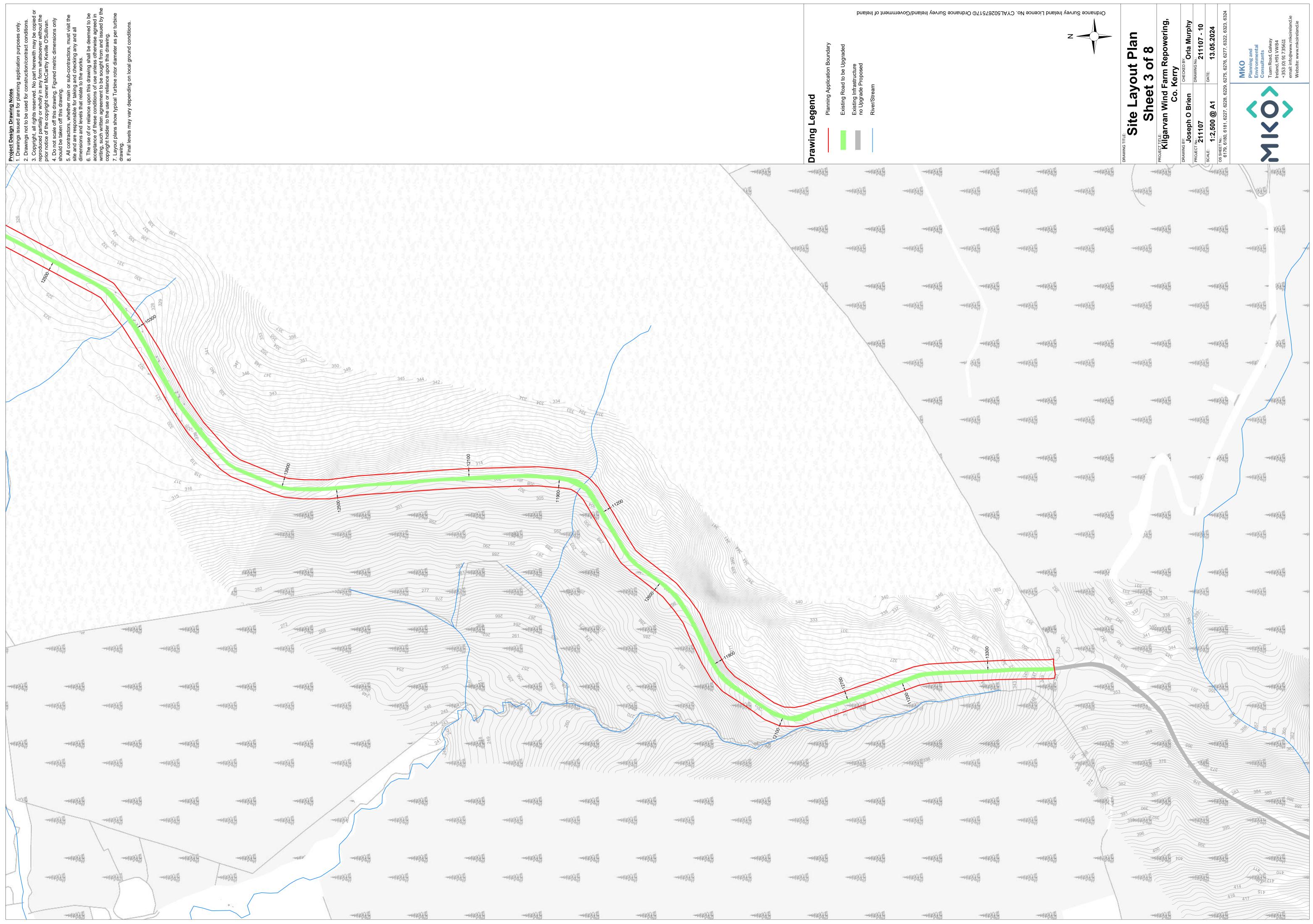


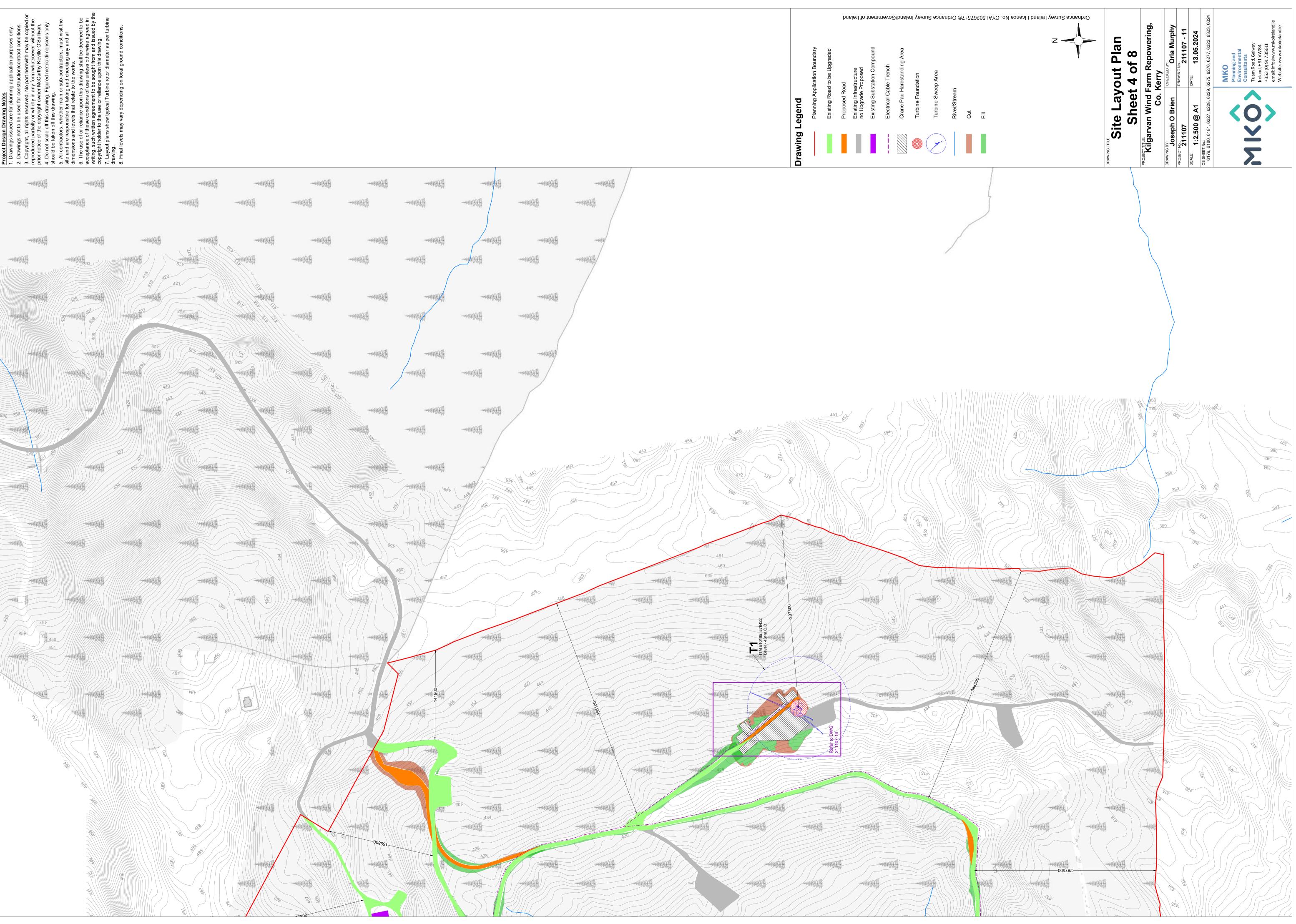


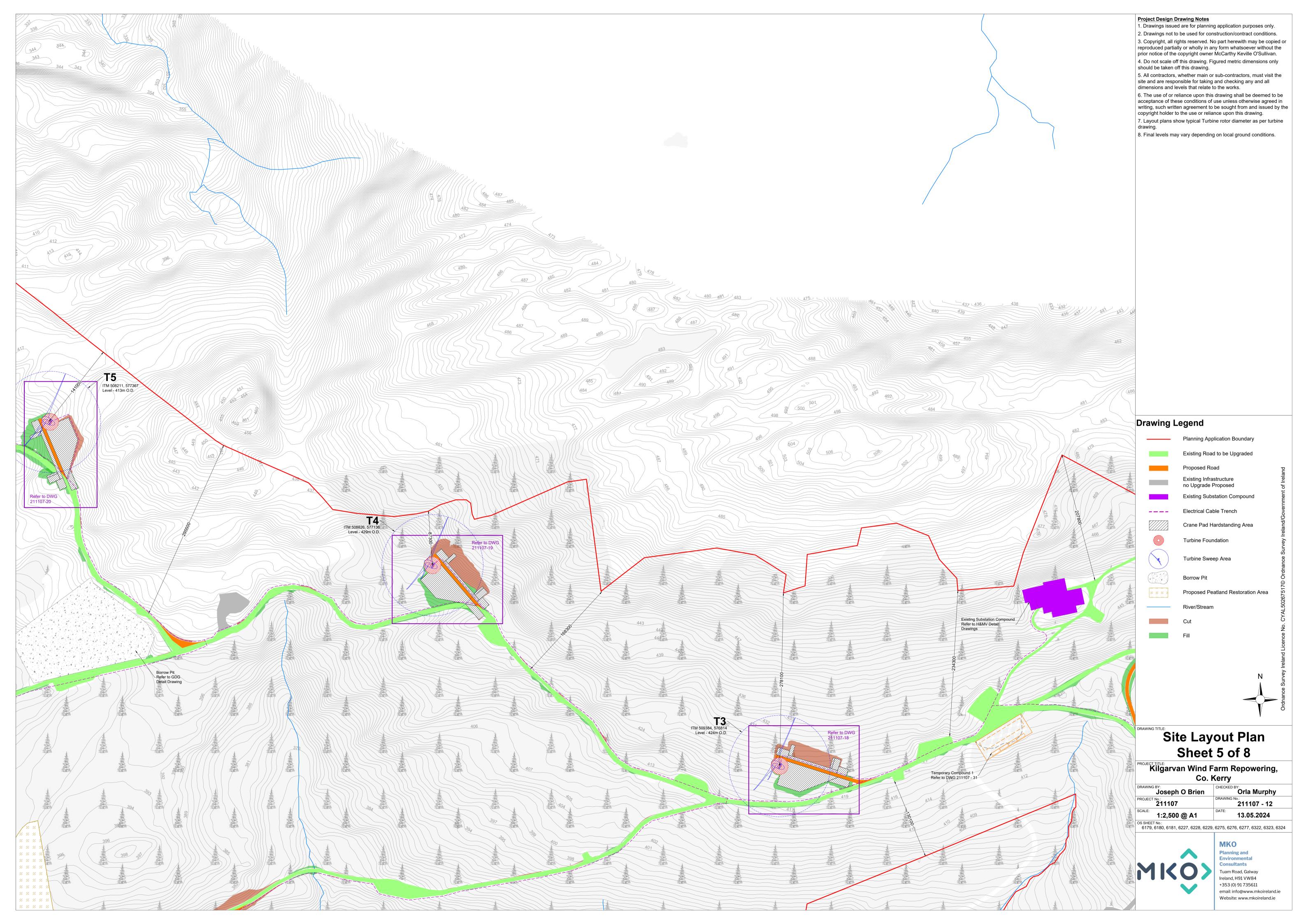
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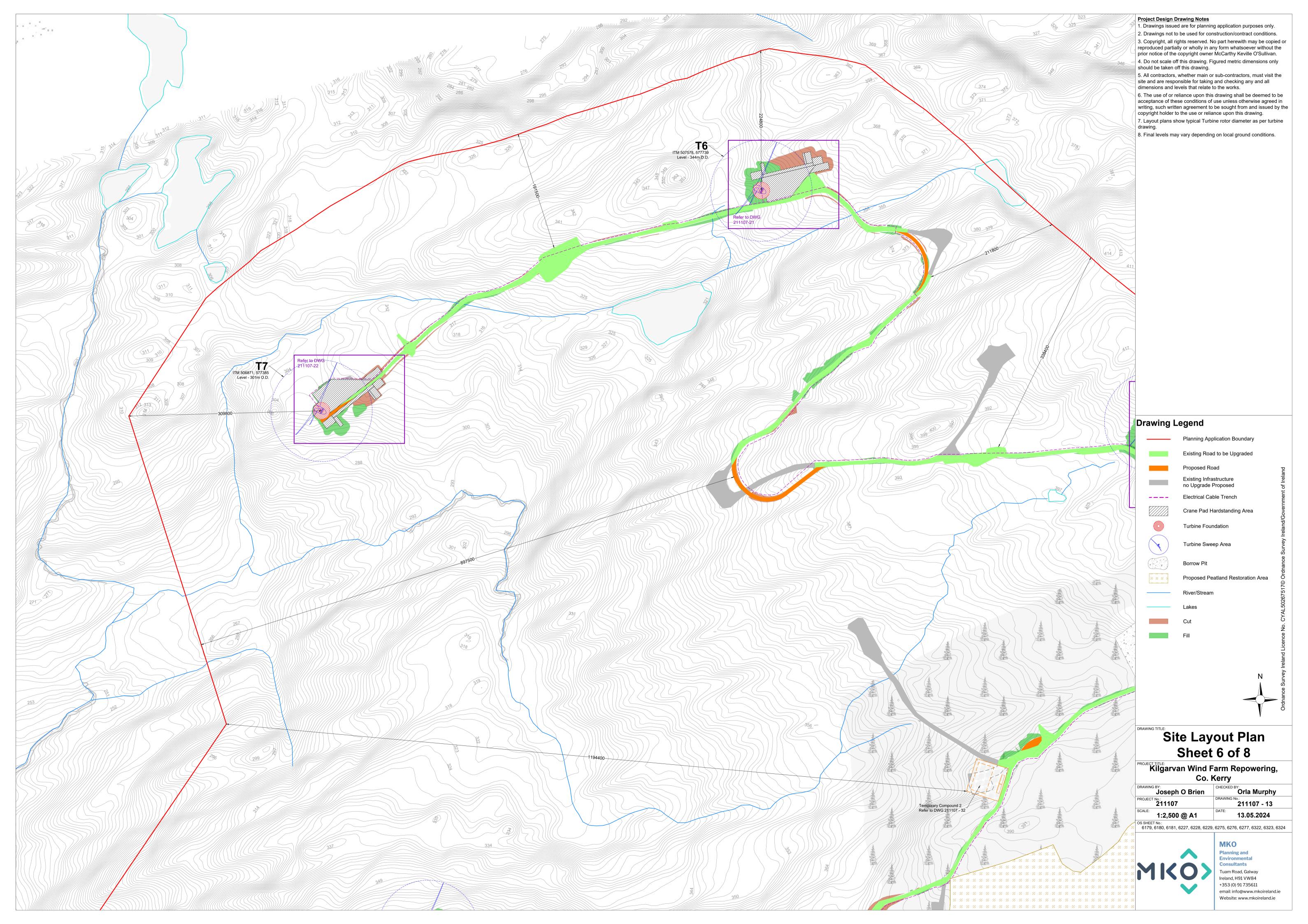


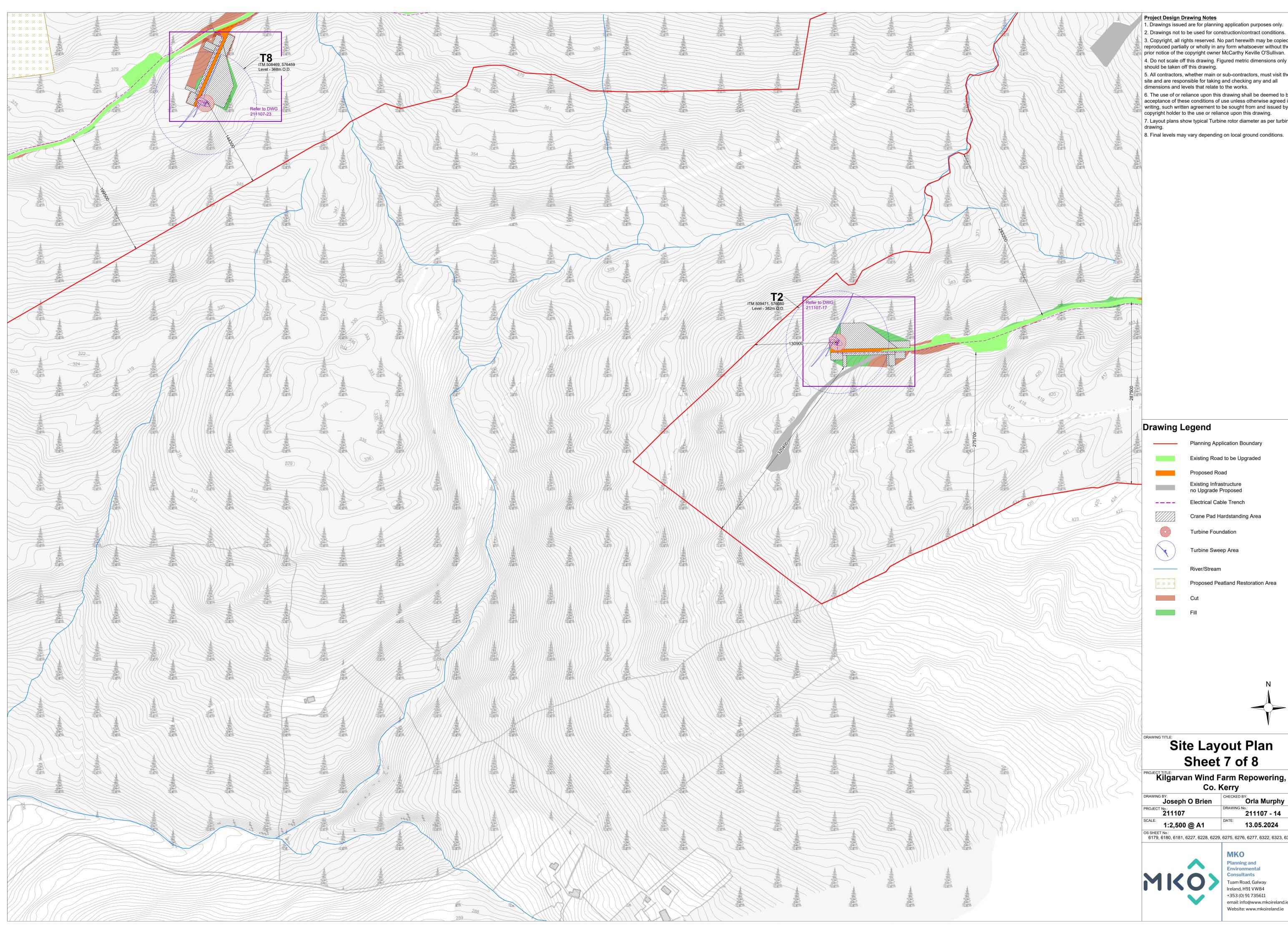












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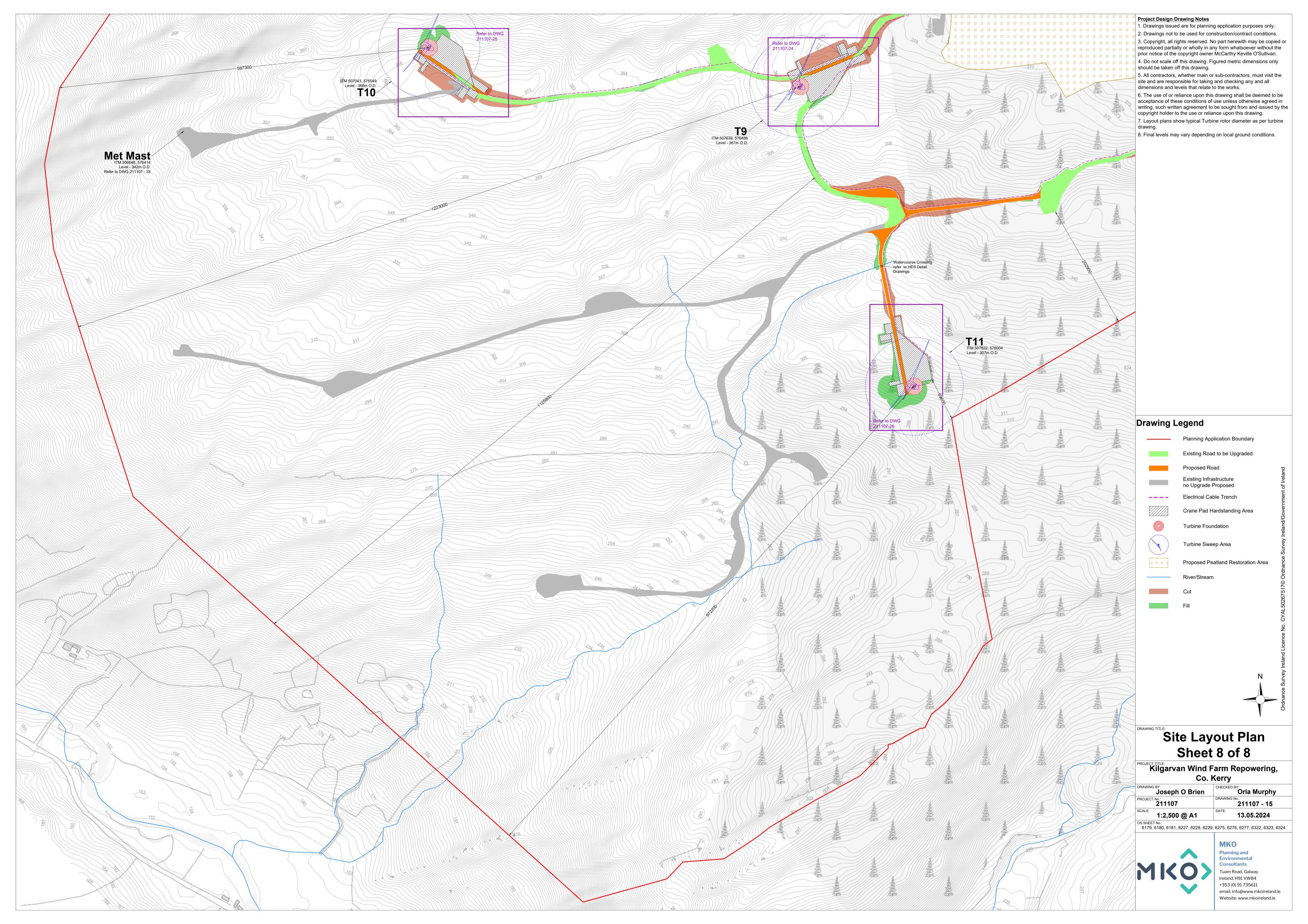
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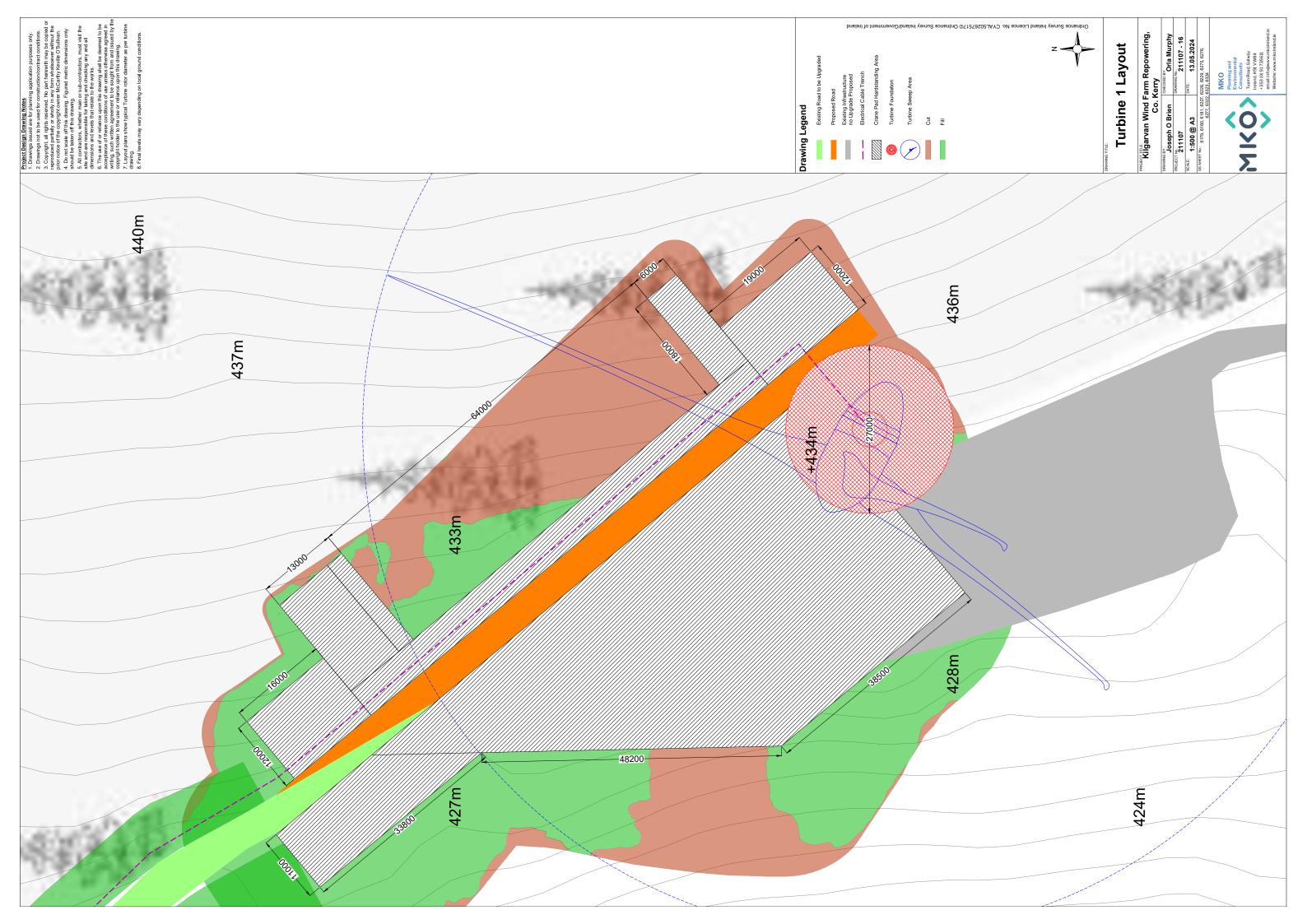
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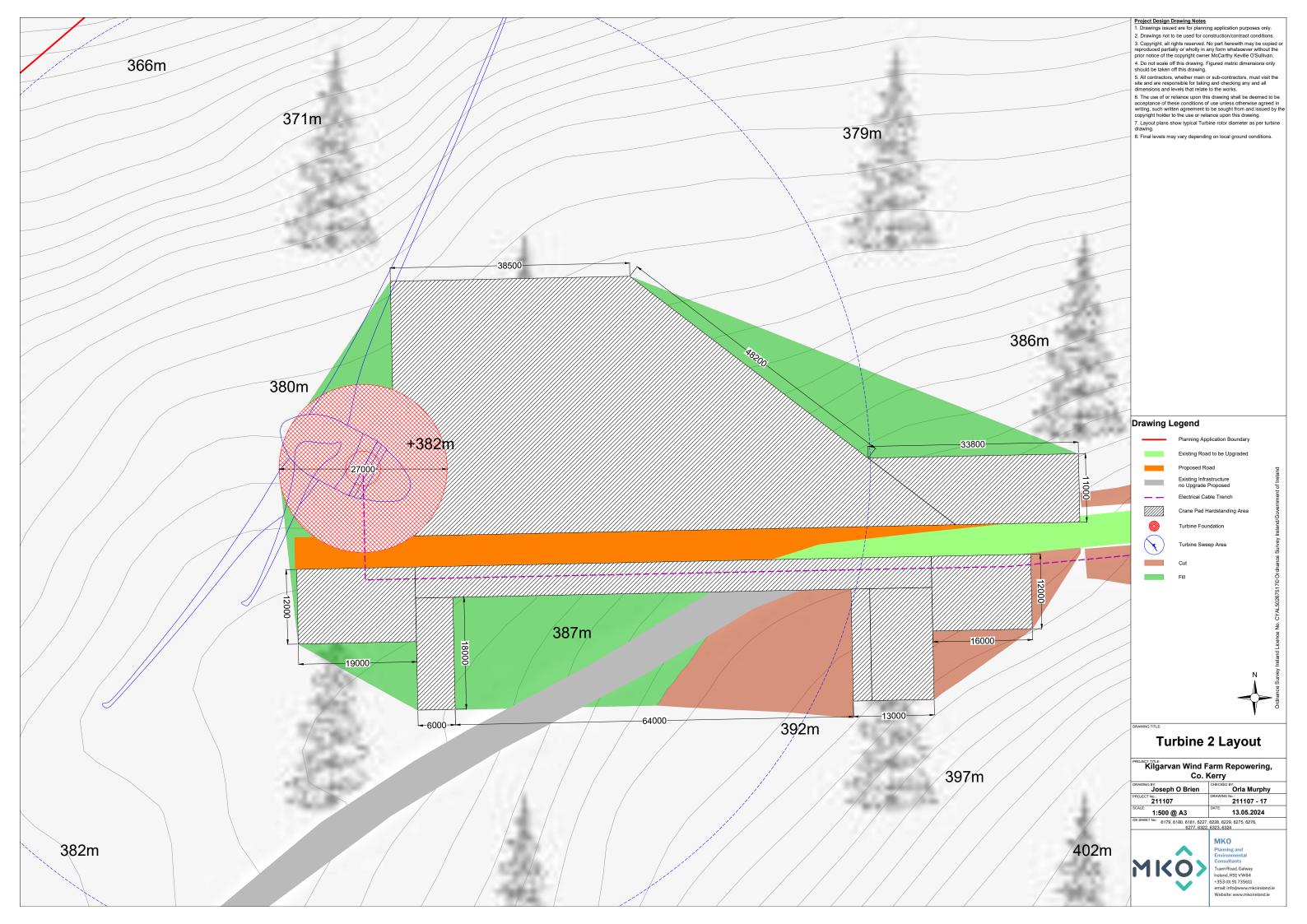
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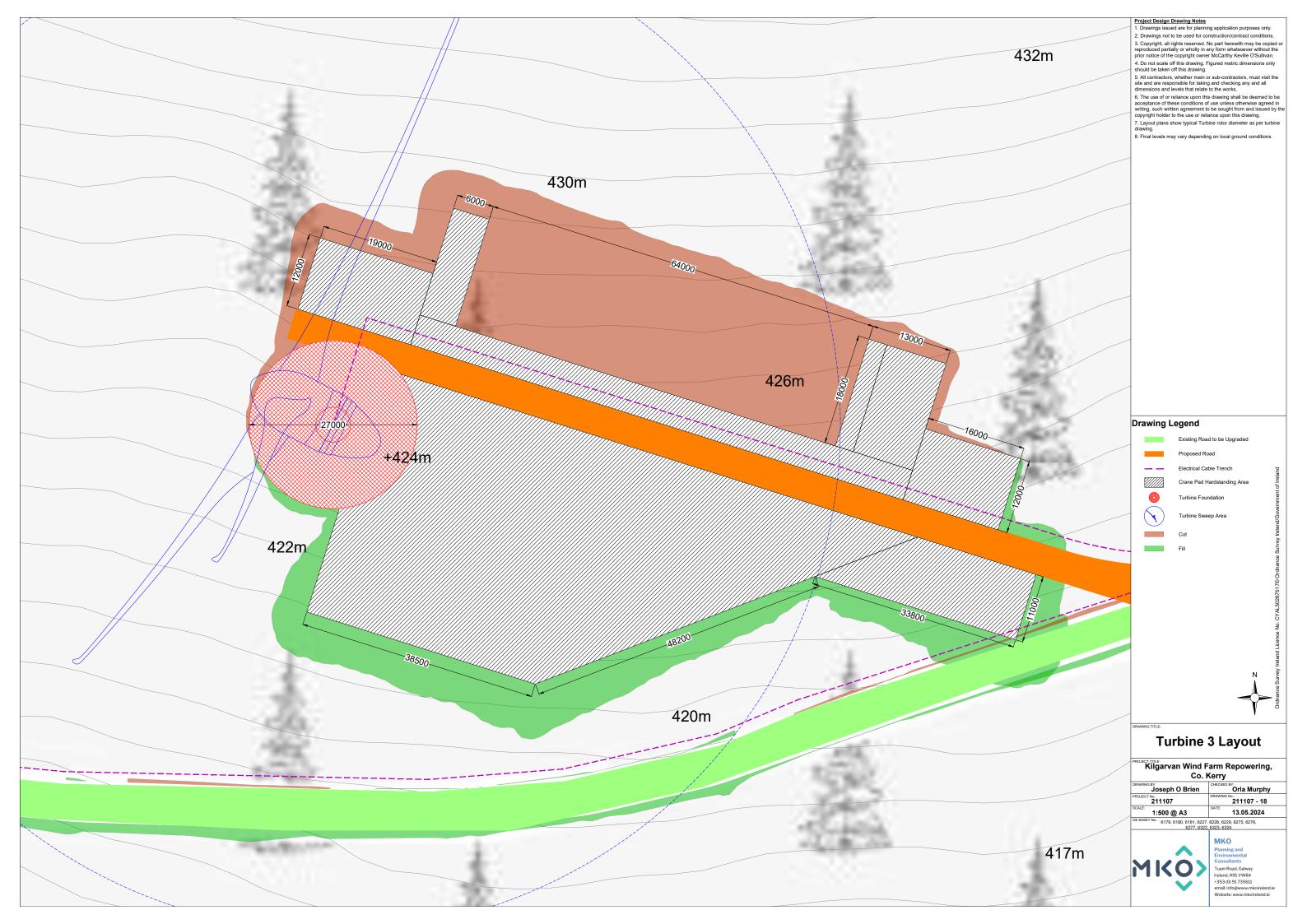
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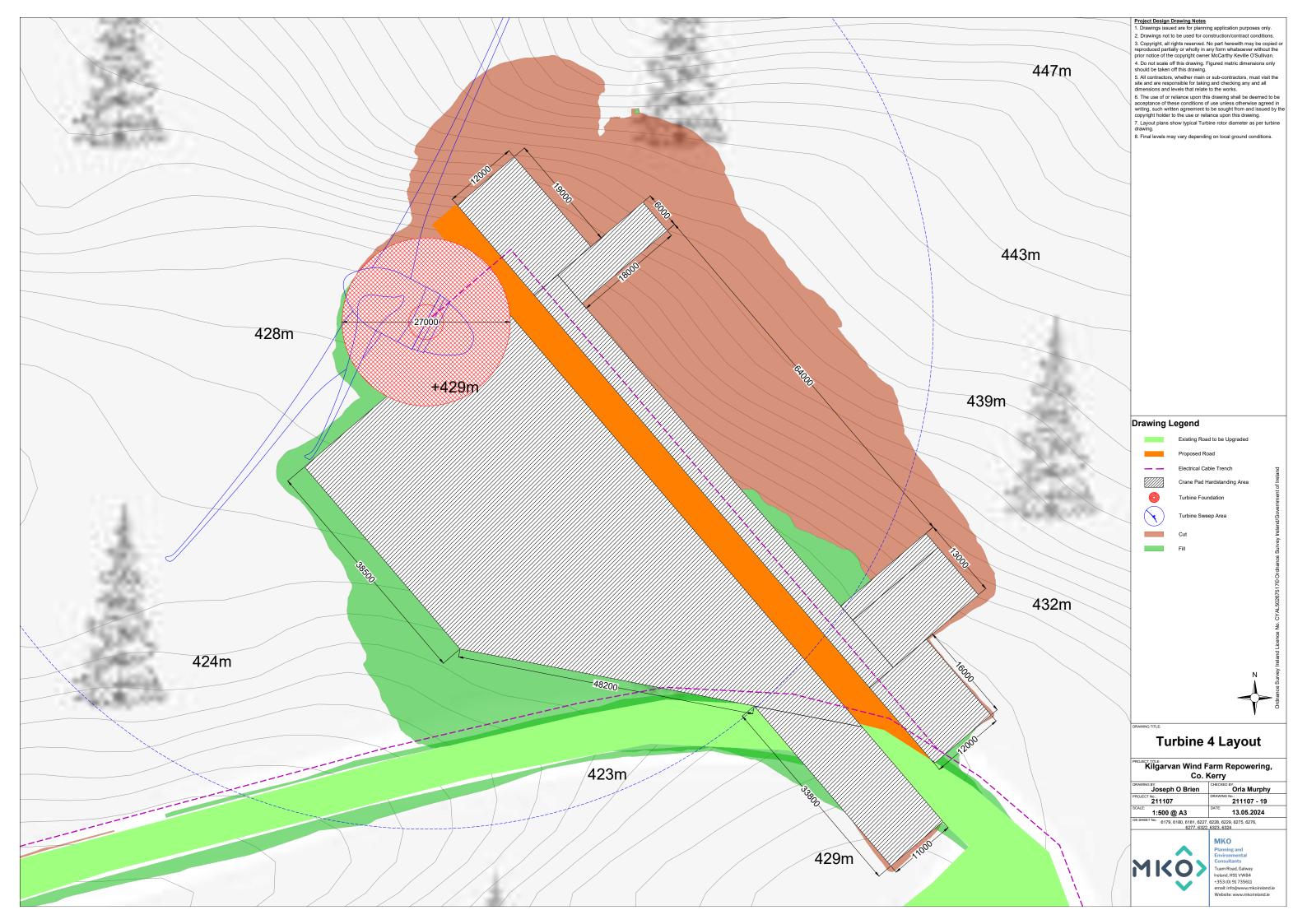
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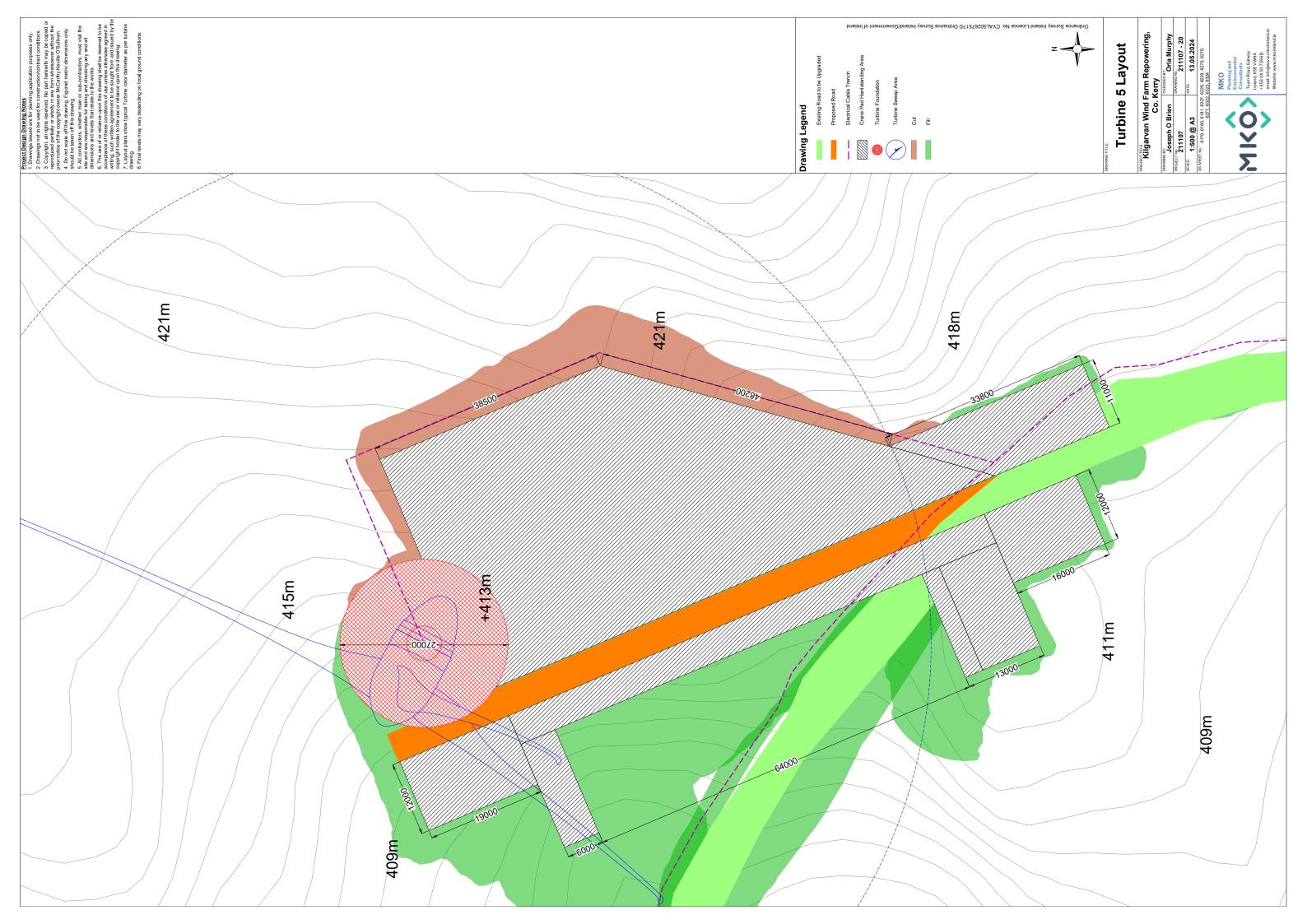


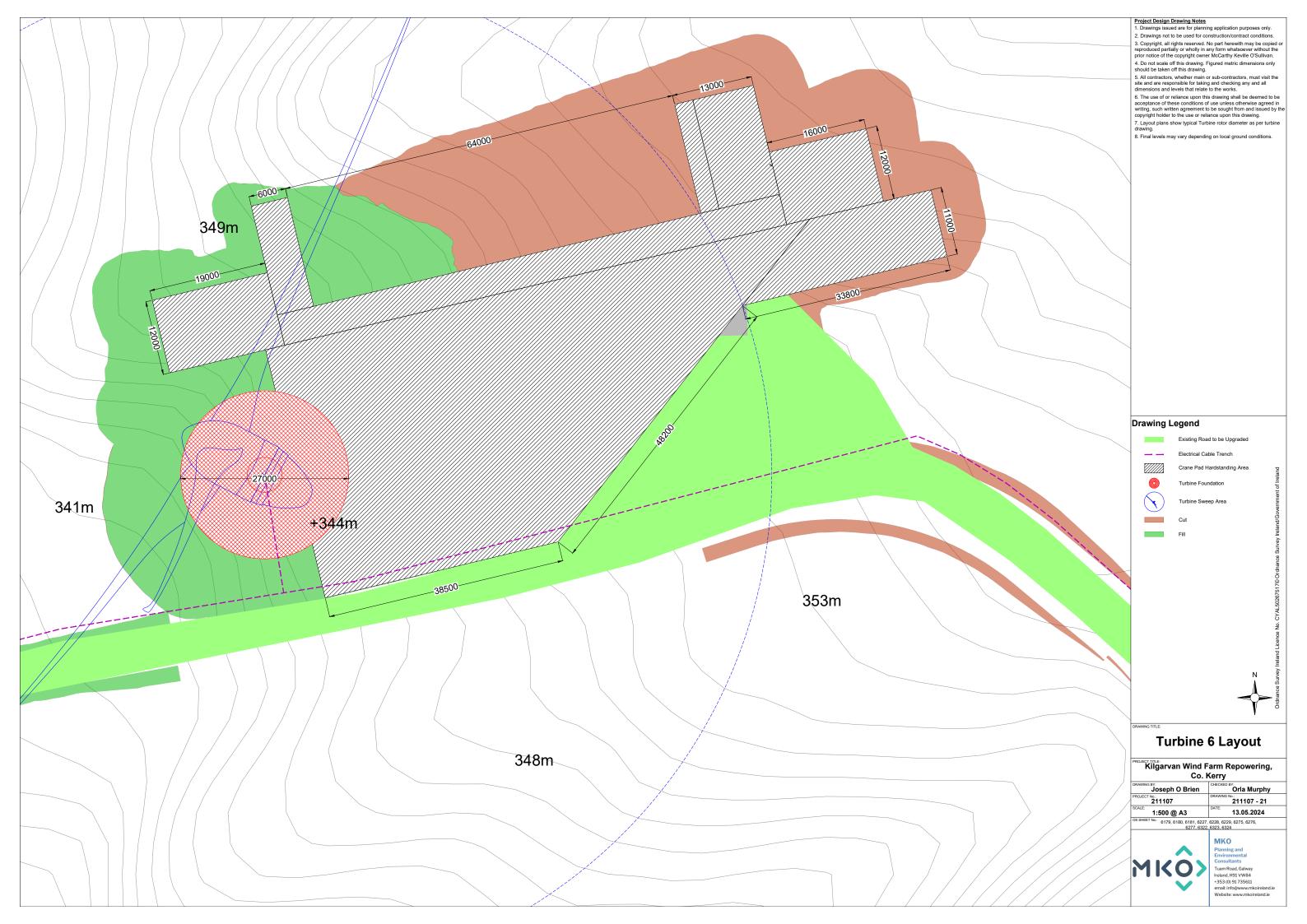


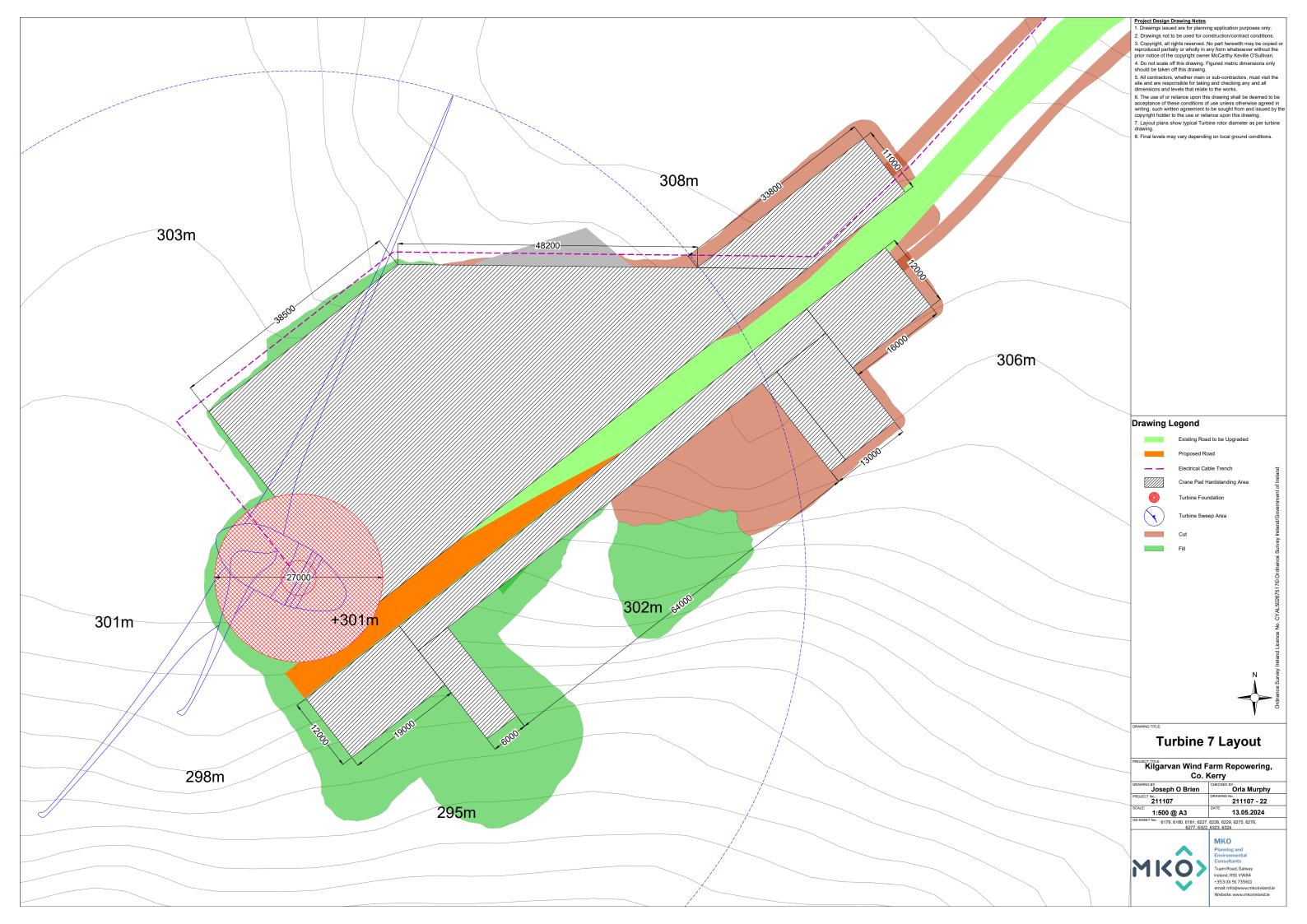


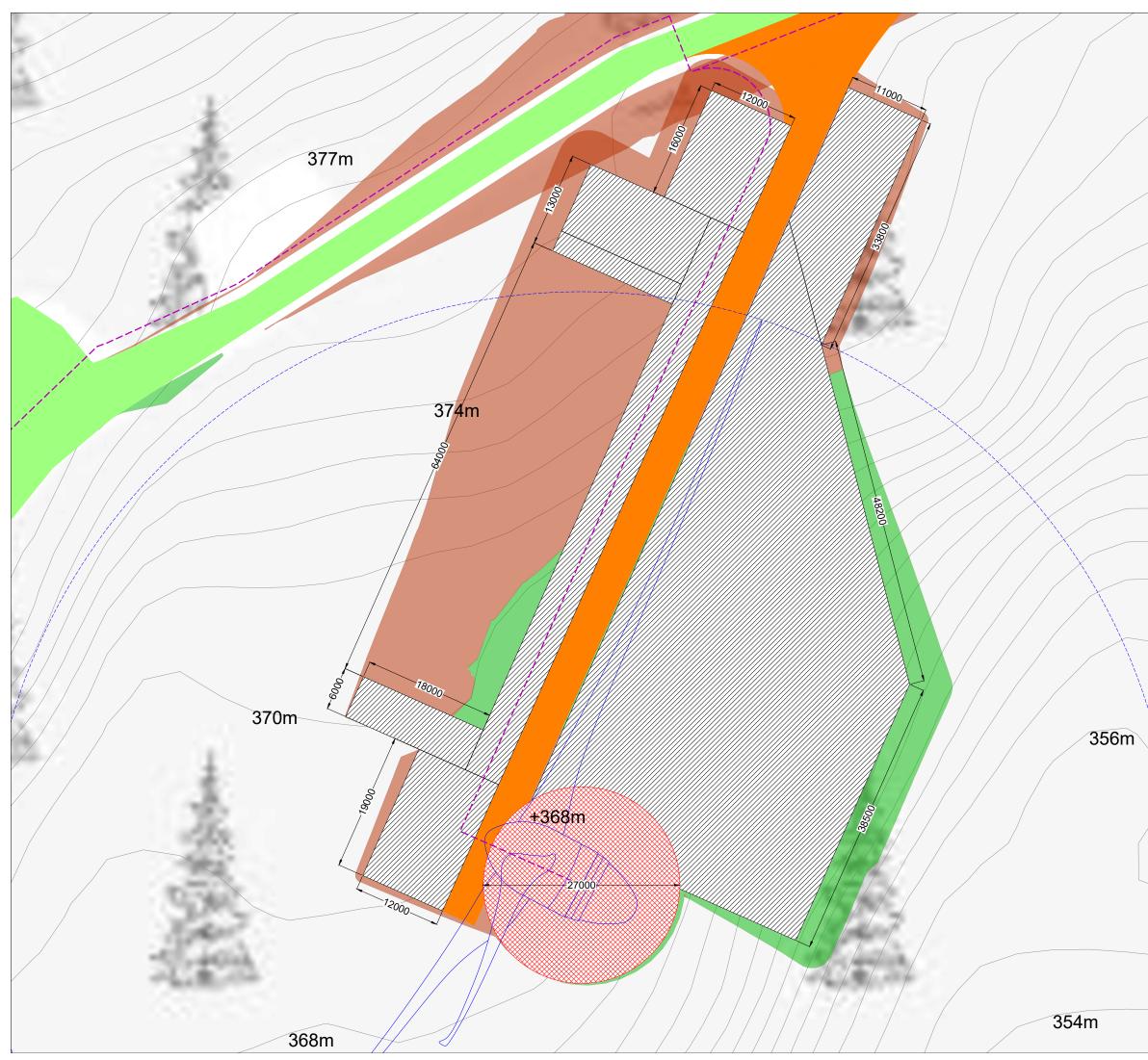










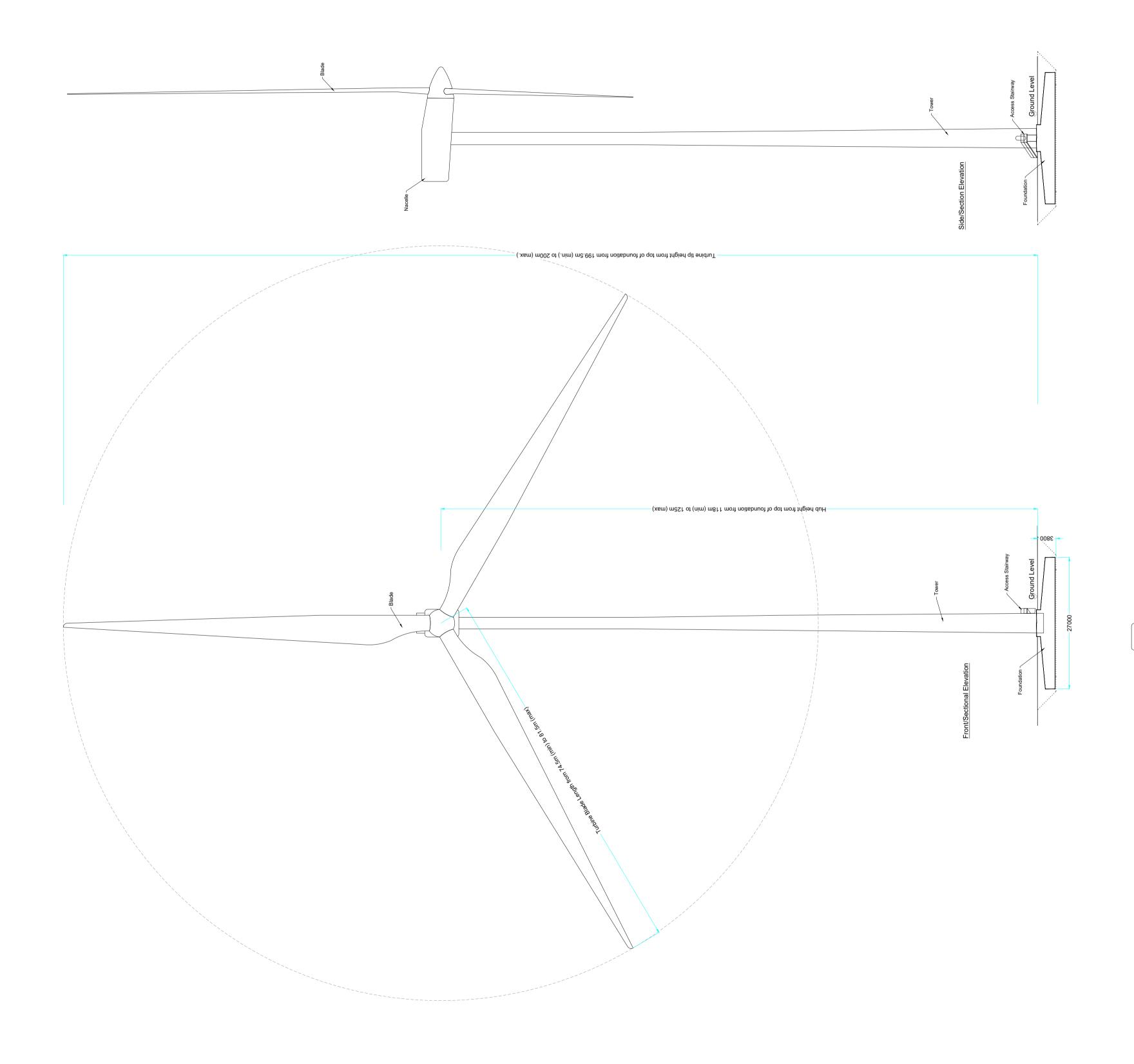


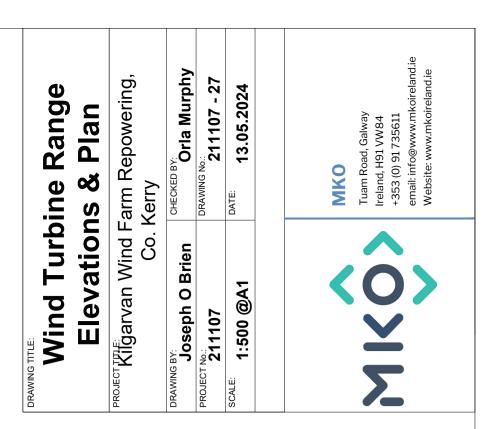
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| 001 | Drawing Legend |
| 361m | Existing Road to be Upgraded |
| | Proposed Road |
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| | Crane Pad Hardstanding Area |
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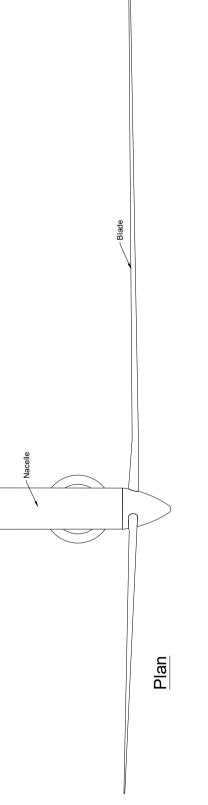






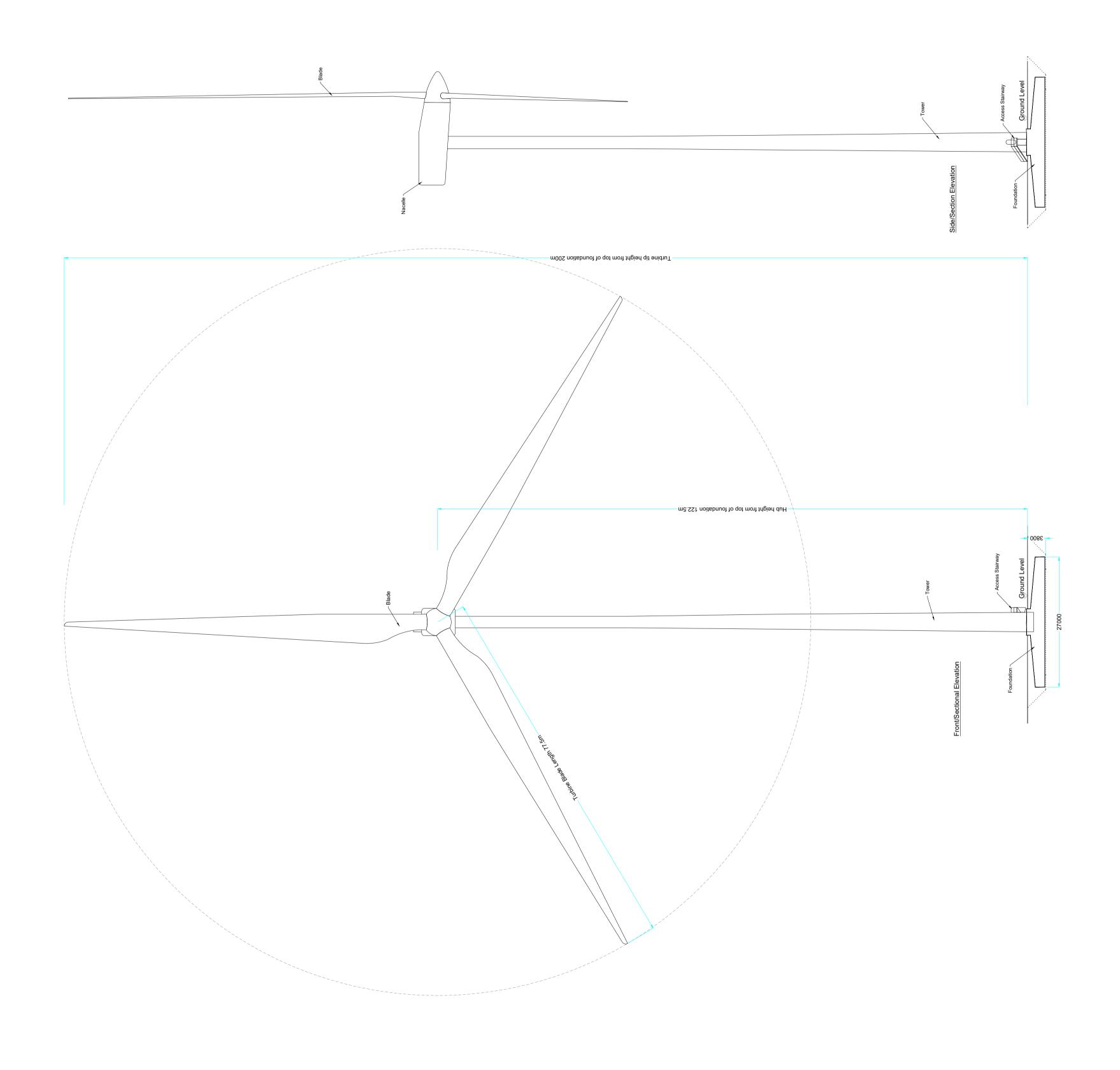




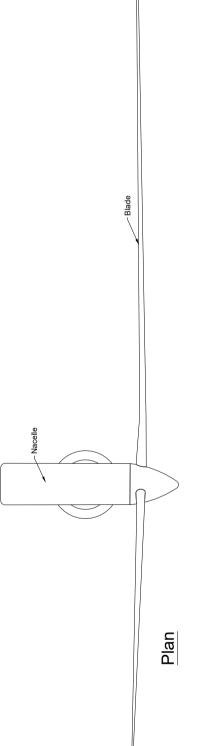


| Drawing Notes | Proposed wind turbines to have a | to blade tip height of up to 200m. |
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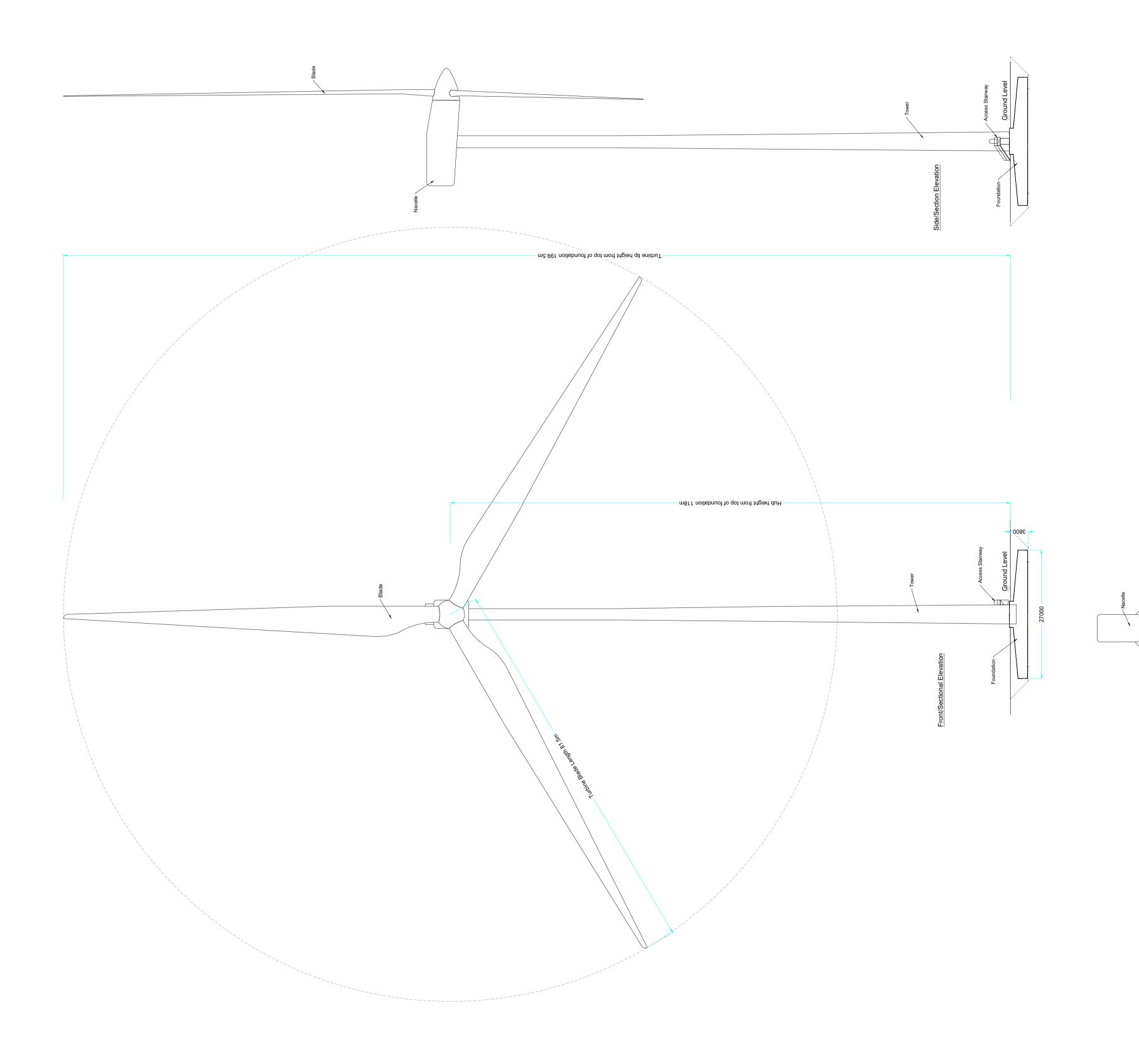


| DRAWING TITLE: 122 5m hith and 77 5m hlade | d 77 5m blade |
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| Co. F | Co. Kerry |
| DRAWING BY: Joseph O Brien | CHECKED BY: Orla Murphy |
| PROJECT No.: 211107 | DRAWING No.: 211107 - 28 |
| scale: 1:500 @A1 | DATE: 13.05.2024 |
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| < Š Š | MKO Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie |

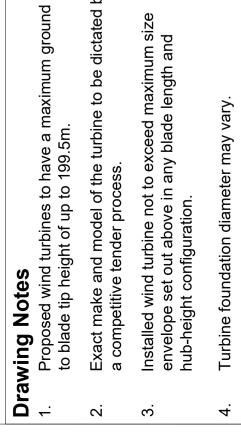


| D | Drawing Notes |
|----------------|---------------------------|
| . . | Proposed wind turbines |
| | to blade tip height of up |
| 2. | Exact make and model c |
| | a competitive tender pro |
| ю. | Installed wind turbine no |
| | envelope set out above |

- σ osed wind turbines to have a n ade tip height of up to 200m. 5 <u>5</u>
- þe **t** Exact make and model of the tu a competitive tender process.
 - d Si an B illed wind turbine not to exceed maxi slope set out above in any blade leng height configuration. Ъ
 - Ň Ε Ę Ð 5. .
- nts the top of turb ē und lev 0 D

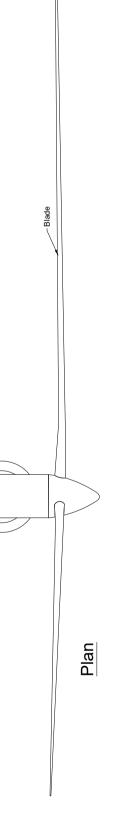


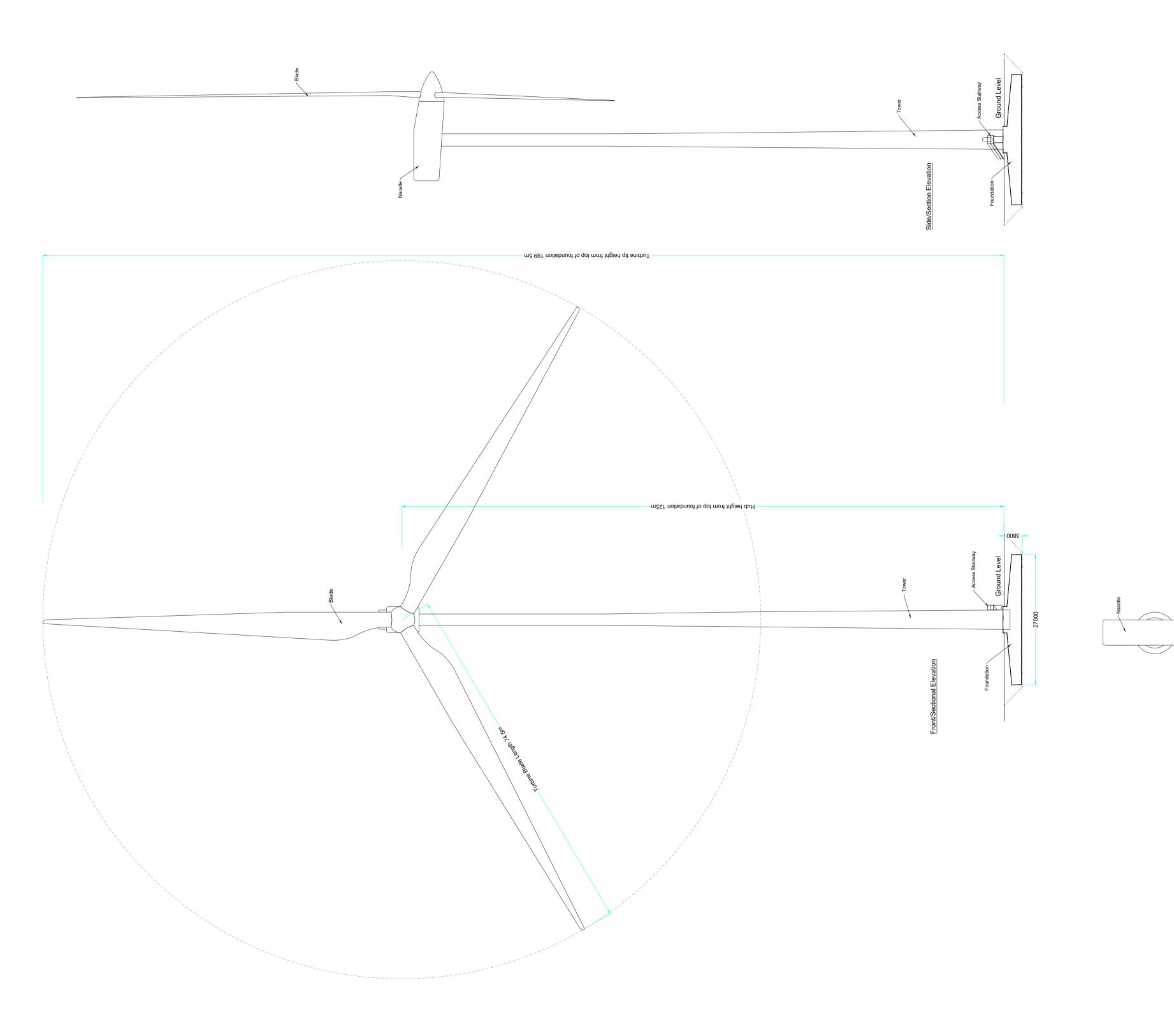
| 118m hub and 81.5m blade Wind Turbine | 81.5m blade urbine |
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| Elevations & Plan | s & Plan |
| PROJECT WILE KIIGarvan Wind Farm Repowering, | arm Repowering, |
| Co. F | Co. Kerry |
| DRAWING BY: Joseph O Brien | CHECKED BY: Orla Murphy |
| PROJECT No.: 211107 | DRAWING No.: 211107 - 29 |
| scale: 1:500 @A1 | DATE: 13.05.2024 |
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| < Š | MKO Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie |



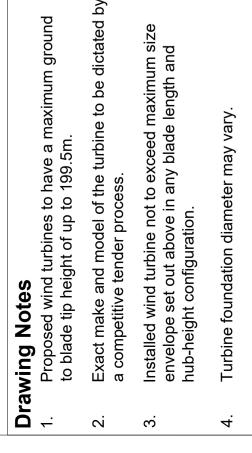
Turbine foundatio
 Ground level representation

Ground level represents the top of turbine fou





| DRAWING TITLE: 125m hub and 74.5m blade | 74.5m blade |
|---|--|
| Wind Turbine Elevations & Plan | urbine is & Plan |
| PROJECT TITLE: Kilgarvan Wind Farm Repowering, | arm Repowering, |
| Co. F | Co. Kerry |
| DRAWING BY: Joseph O Brien | CHECKED BY: Orla Murphy |
| PROJECT No.: 211107 | DRAWING No.: 211107 - 30 |
| scale: 1:500 @A1 | DATE: 13.05.2024 |
| | |
| < | MKO Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie |

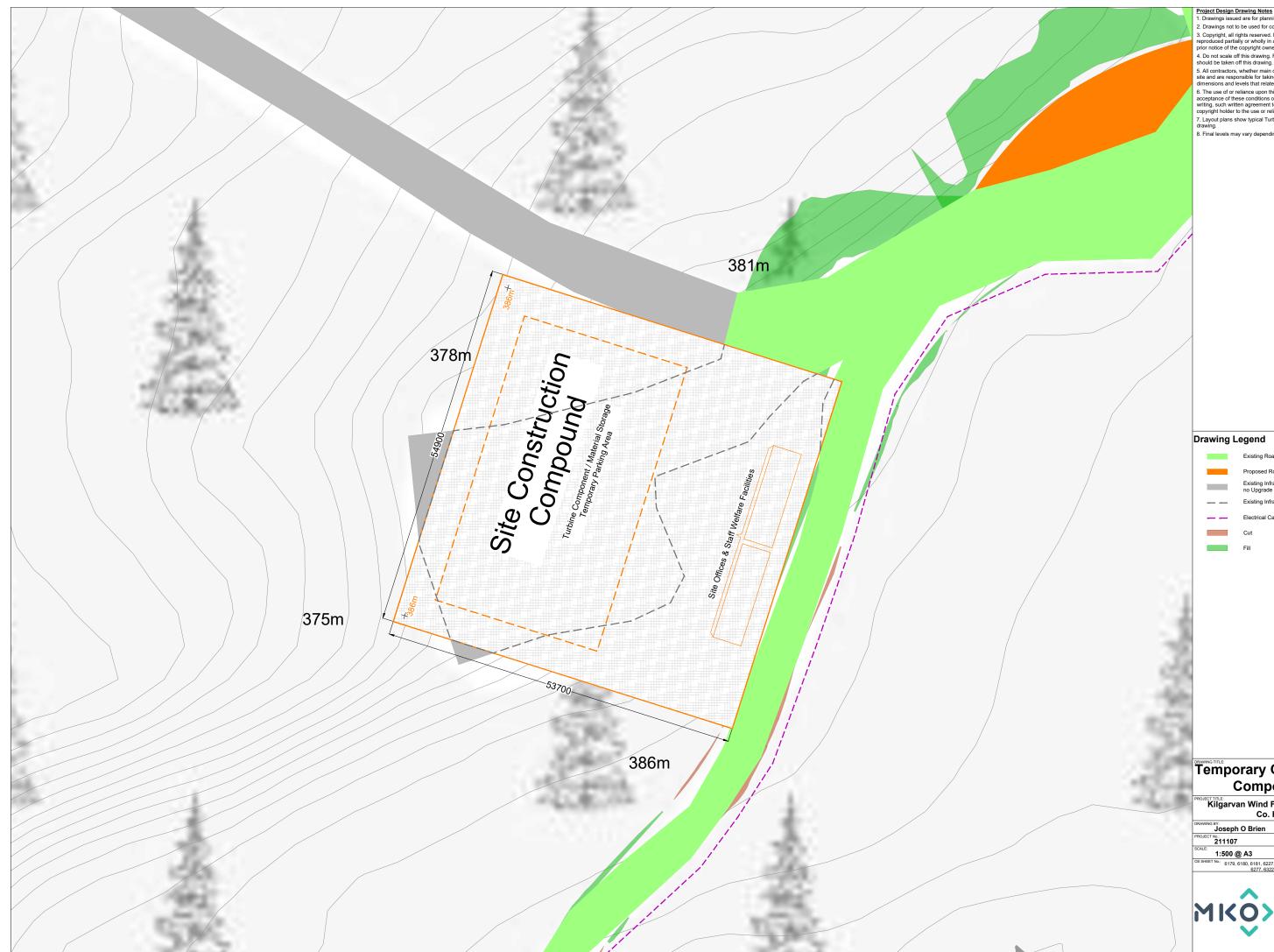


5. 4.

ents the top of turbi repr Ground level







Project Design Drawing Notes
1. Drawings issued are for planning application purposes only.
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 whatscever without the prior notice of the copyright owner McCarthy Kevile 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.

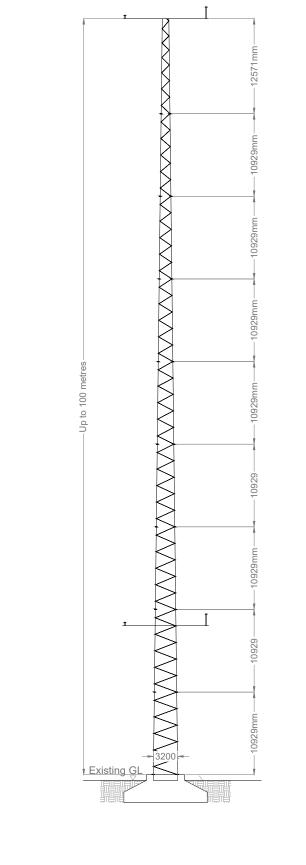
Drawing Legend

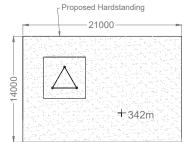
| - | - |
|---|--|
| | Existing Road to be Upgraded |
| | Proposed Road |
| | Existing Infrastructure no Upgrade Proposed |
| | Existing Infrastructure Footprint |
| | Electrical Cable Trench |
| | Cut |
| | Fill |
| | |

Temporary Construction Compound 2

| Kilgarvan Wind Farm Repowering, Co. Kerry | | | | |
|--|---|--|--|--|
| Joseph O Brien | CHECKED BY: Orla Murphy | | | |
| PROJECT No.: 211107 | DRAWING No.: 211107 - 32 | | | |
| SCALE: 1:500 @ A3 | DATE: 13.05.2024 | | | |
| | , 6228, 6229, 6275, 6276, , 6323, 6324 | | | |
| | мко | | | |

Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mko Vebsite: www.mk





Met Mast Compound Plan

Drawing Notes

 Met mast on site will either be guyed met mast or free standing met mast depending on site conditions. Both options shown only one will be upped used.

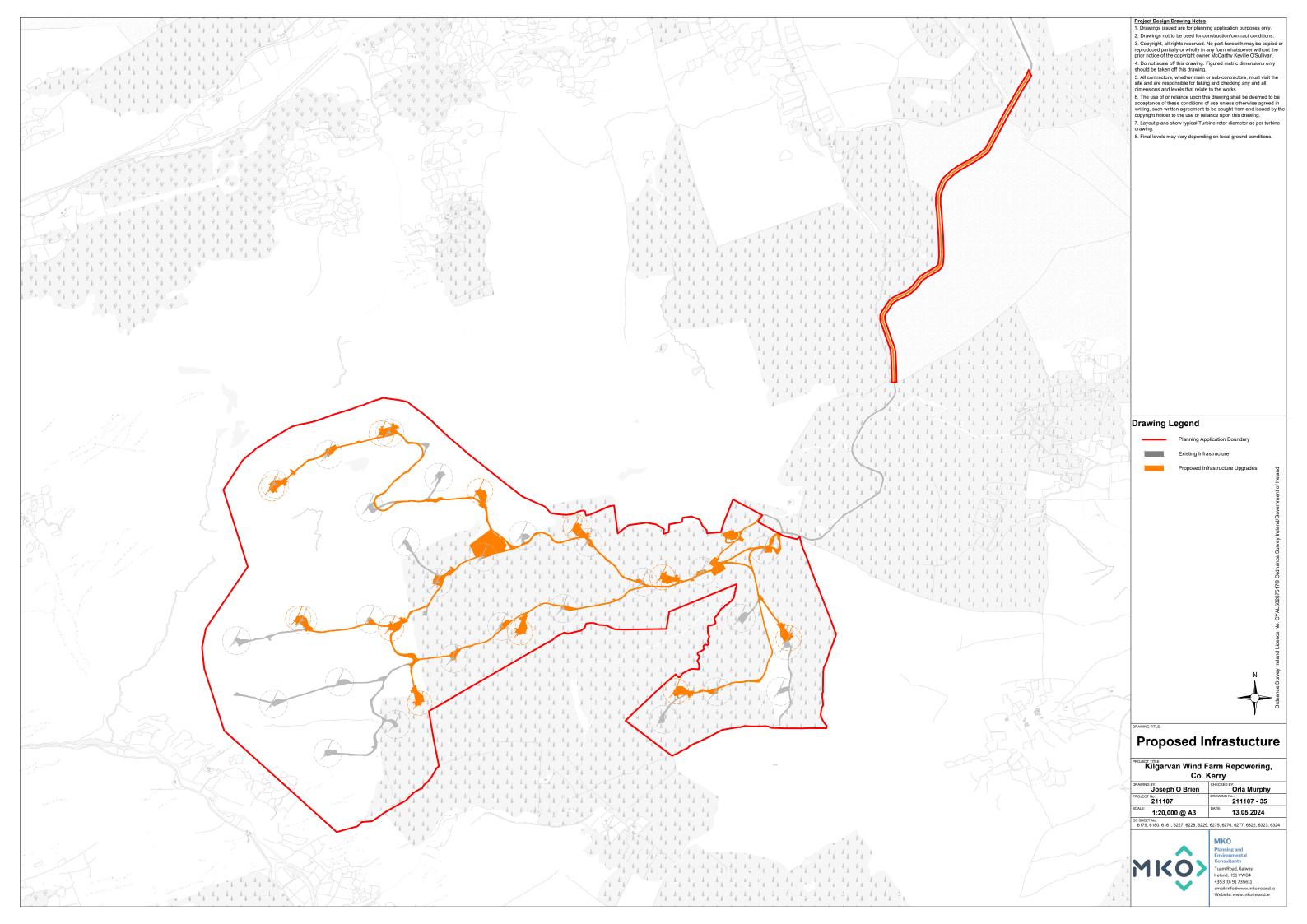
Met Mast - Free Standing Mast یتوت ۲۳۳۱-۱۹ Kilgarvan Wind Farm Repowering, Co. Kerry Joseph O Brien Orla Murphy [™]211107 211107 - 33 1:500 @ A3 13.05.2024

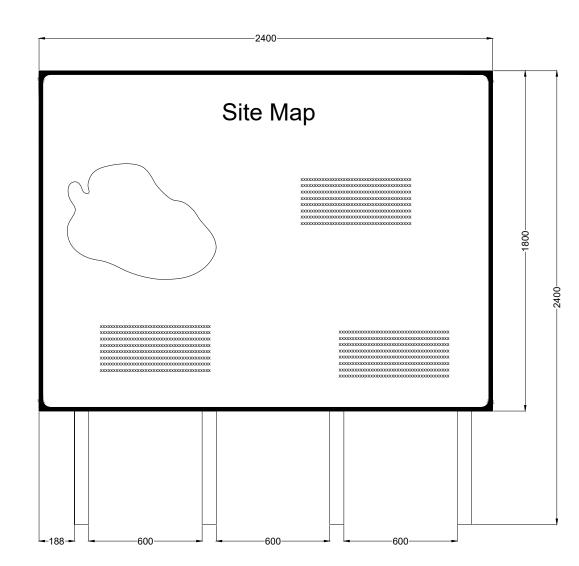
мко́> V

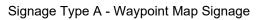
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoi Website: www.mkoirel

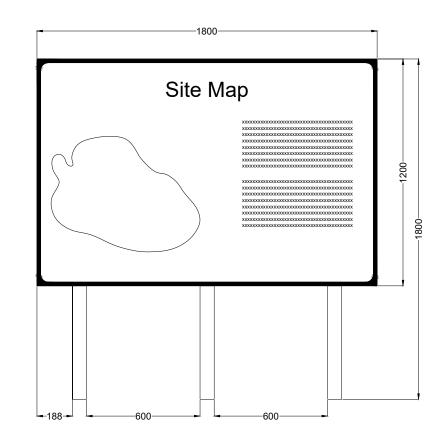
land.ie





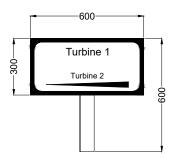






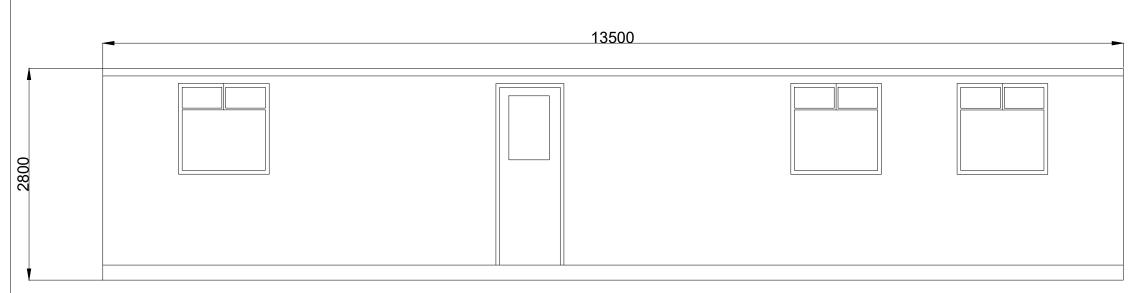
Signage Type B -Entry Point Signage

Note For illustrative purposes only exact details to be confirmed

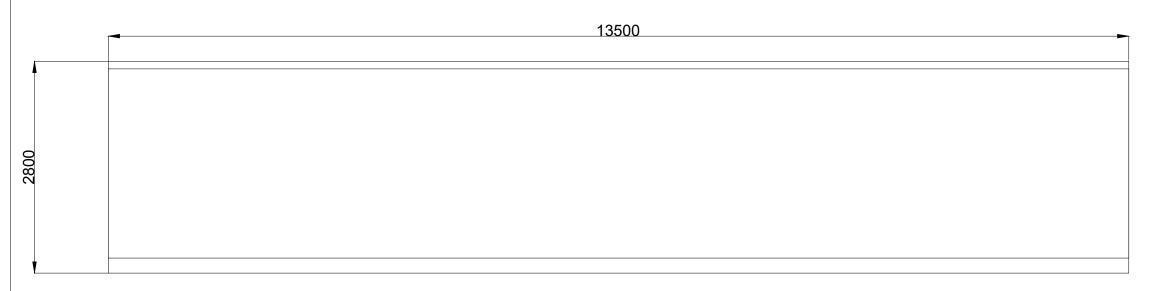


Signage Type C - Way Point Direction Signage

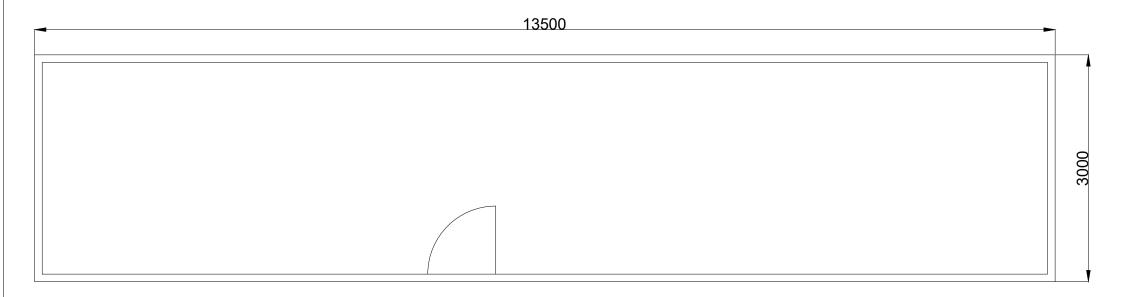
| DRAWING TITLE Signage Detail PROJECT TITLE Kilgarvan Wind Farm Repowering, Co. Kerry | | | | |
|--|--|--|--|--|
| | | | | |
| PROJECT No.: 211107 | DRAWING No.: 211107 - 36 | | | |
| SCALE: 1:20 @ A3 DATE: 13.05.2024 | | | | |
| мко̂ | MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 W84 +353 (0) 91 735611 email: Inf@yww.mkoireland.ie Website: www.mkoireland.ie | | | |



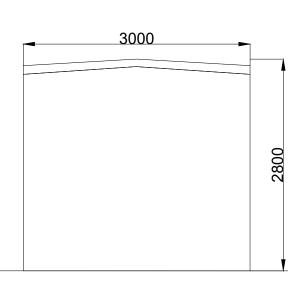
FRONT ELEVATION



REAR ELEVATION



PLAN VIEW



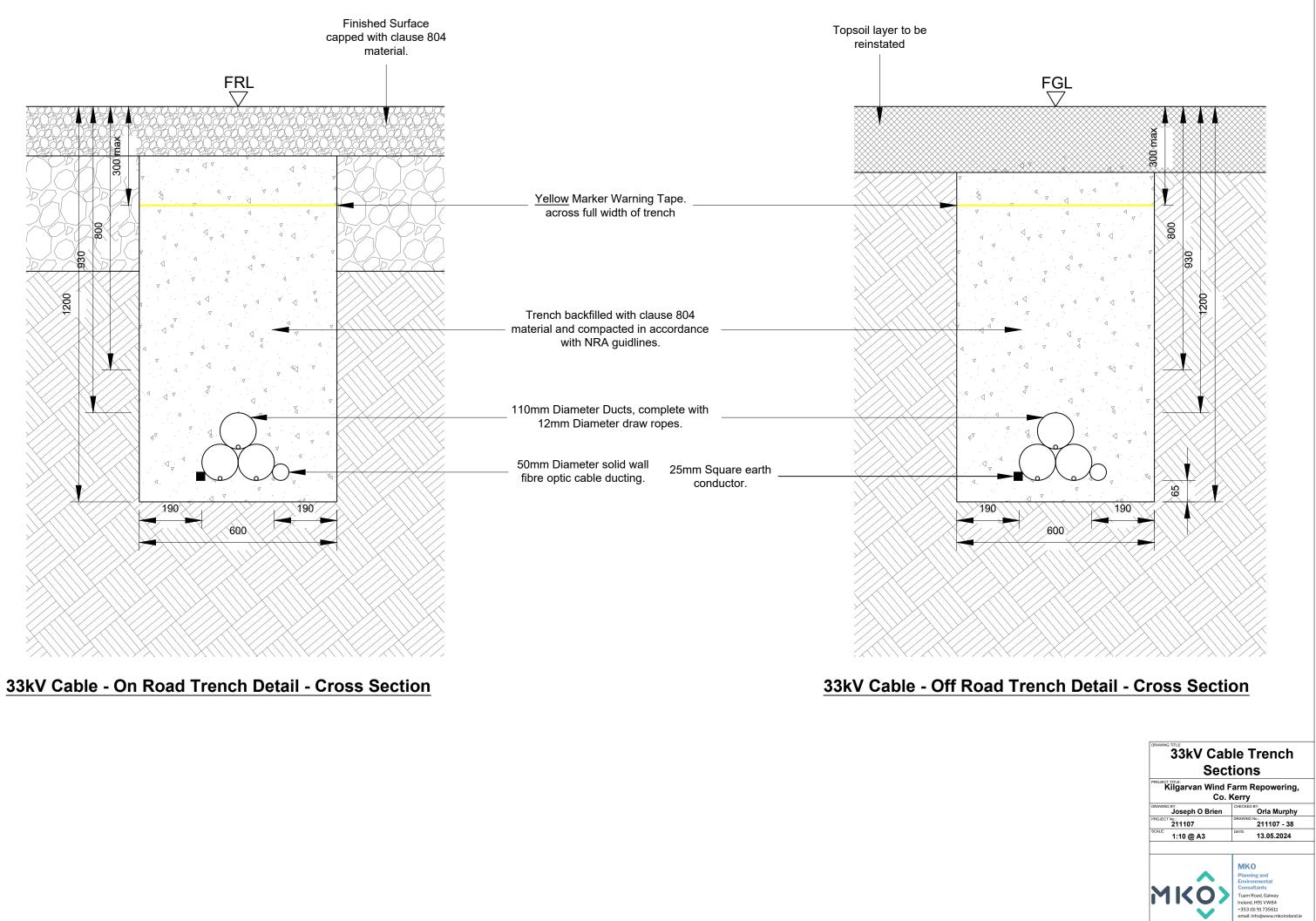
SIDE ELEVATION



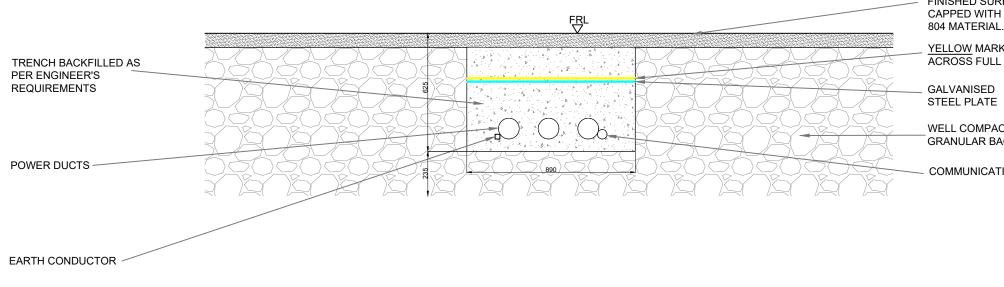


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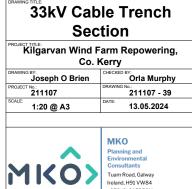


FINISHED SURFACE CAPPED WITH CLAUSE 804 MATERIAL.

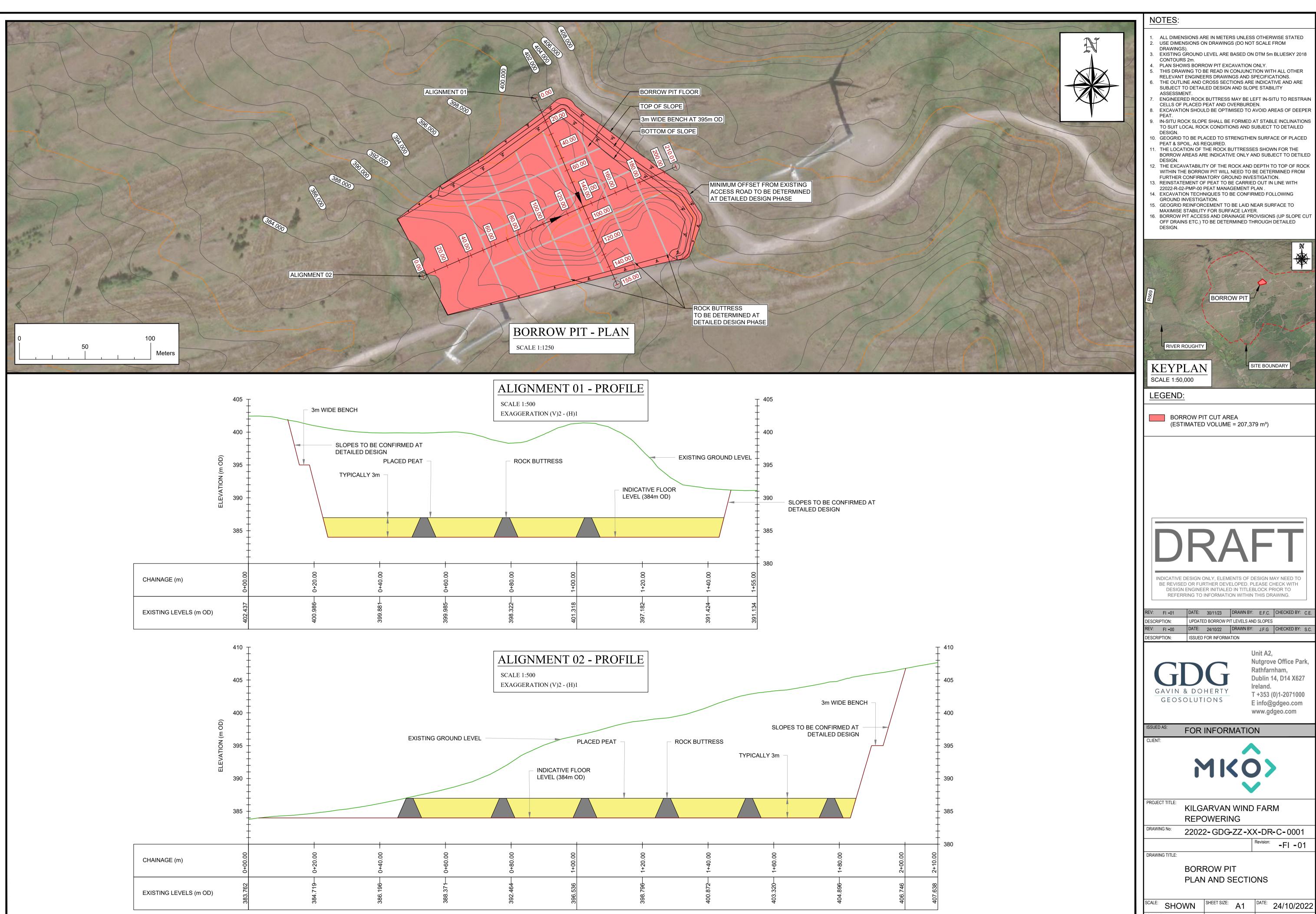
YELLOW MARKER WARNING TAPE. ACROSS FULL WIDTH OF TRENCH

WELL COMPACTED

COMMUNICATION DUCT

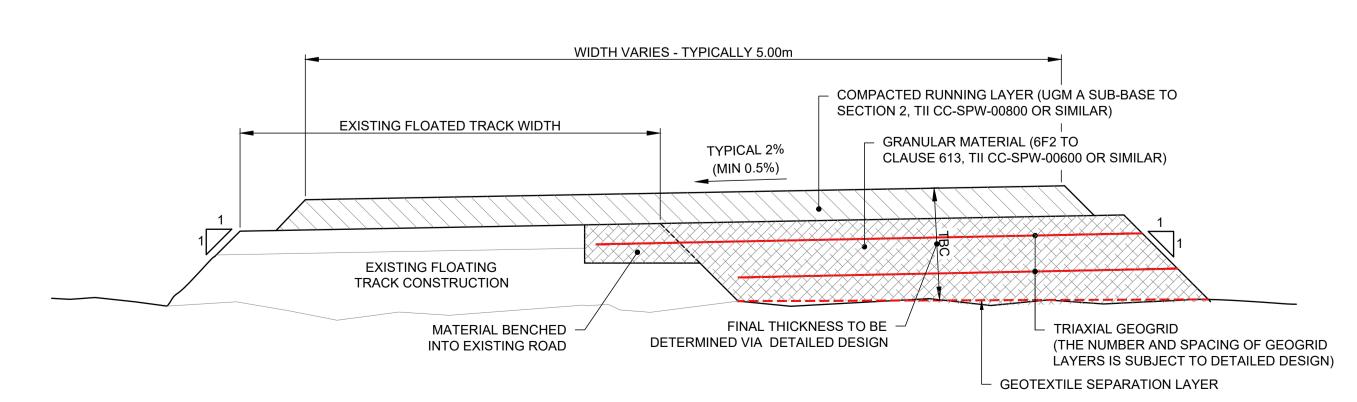


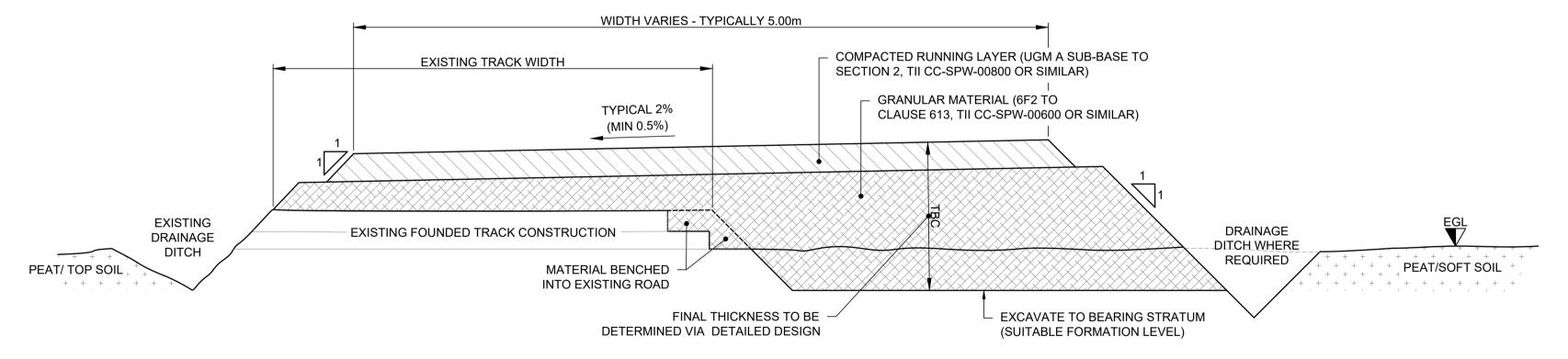
nsultants Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.i Website: www.mkoireland.ie



| SCALE: SHOWN | A1 | DATE: 24/10/2022 |
|-----------------|------------------|--------------------|
| DRAWN BY: J.F.G | CHECKED BY: S.C. | APPROVED BY: J.O'D |

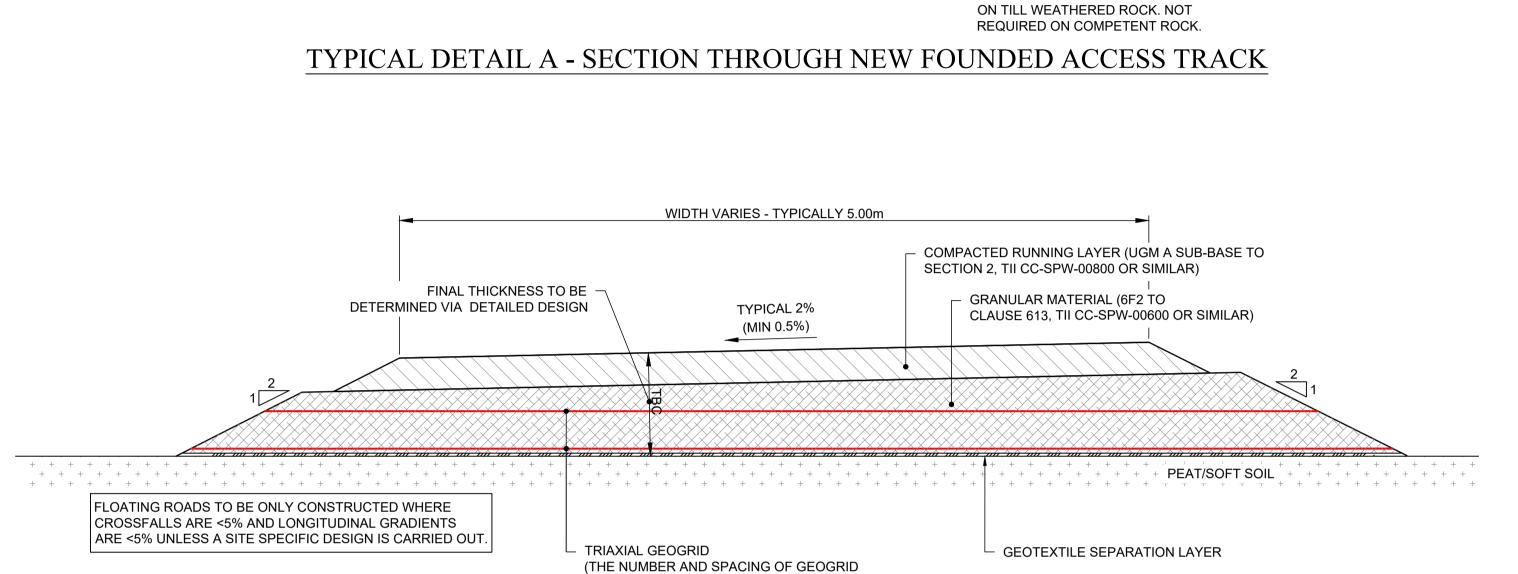
TYPICAL DETAIL D - WIDENING OF EXISTING FLOATING TRACK

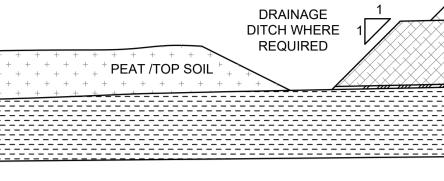




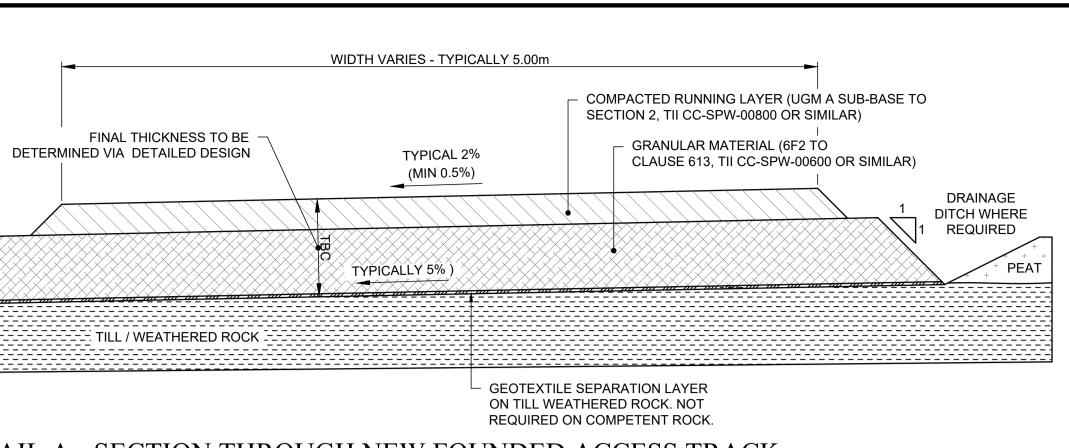
TYPICAL DETAIL B - SECTION THROUGH NEW FLOATED ACCESS TRACK

LAYERS IS SUBJECT TO DETAILED DESIGN)



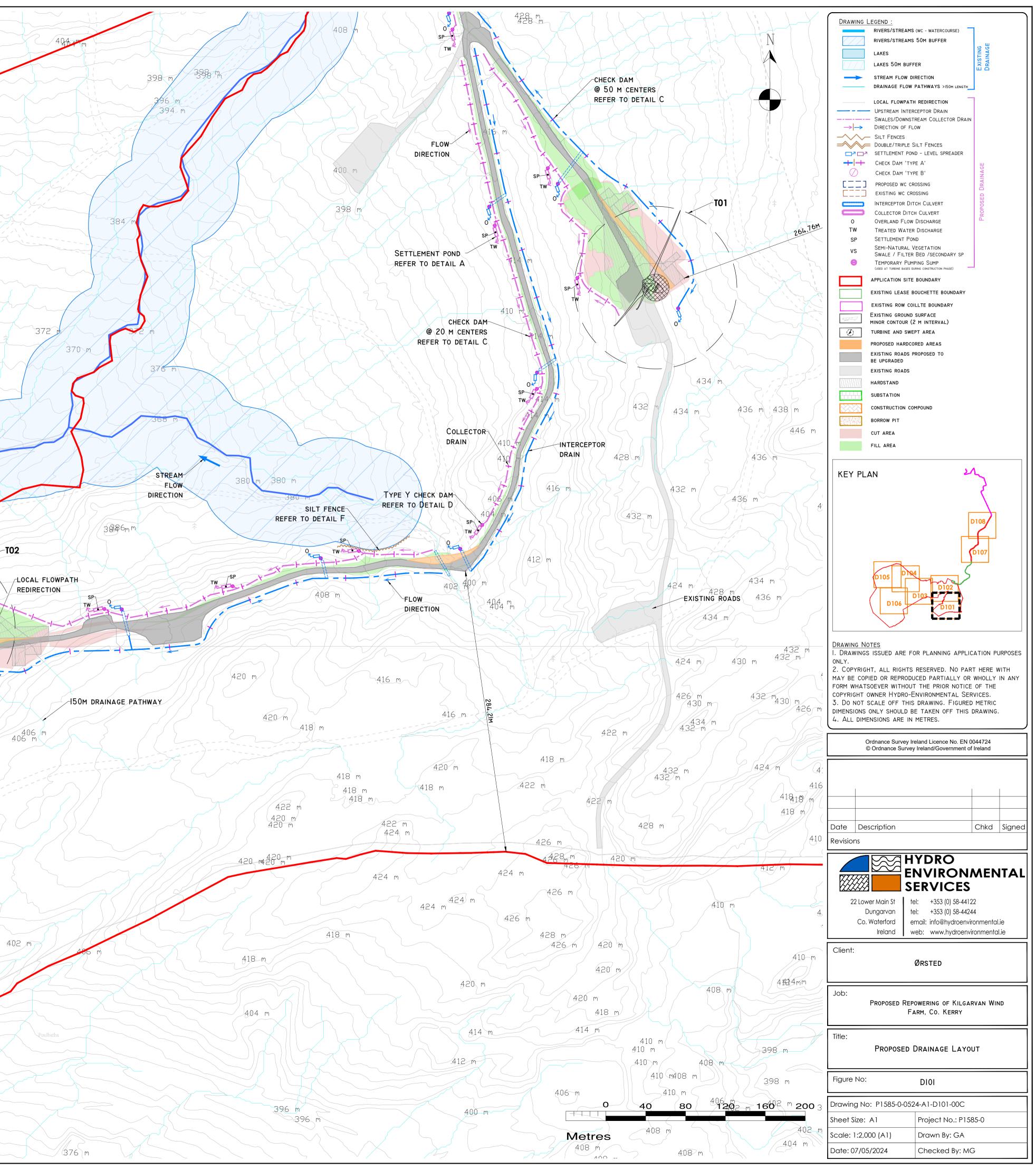


TYPICAL DETAIL C - WIDENING OF EXISTING FOUNDED TRACK

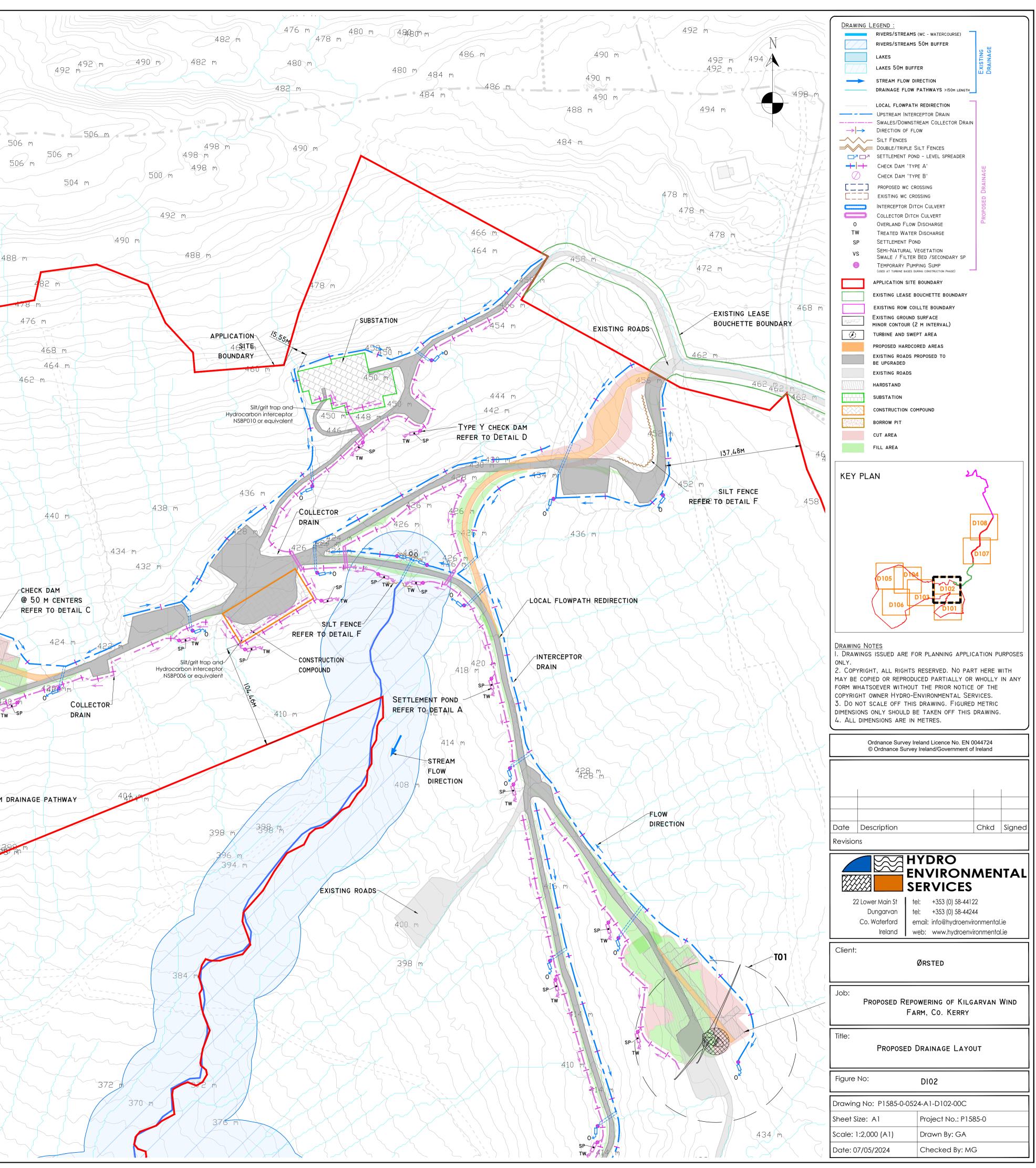


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| TO BE | ASSESSED BY A SUITA | ABLY QUALIFIED |
| CONST | ECHNICAL ENGINEER P TRUCTION / PLACEMEN | NT OF FILL. |
| DRAIN | AGE TO BE PROVIDED AGE STRATEGY. | |
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| REV: FI -00 DESCRIPTION: | DATE: 12/01/22 DRAW ISSUED FOR INFORMATION | N BY: R.R. CHECKED BY: S.C |
| 11-00 | 12/01/22 | |
| 11-00 | 12/01/22 | Unit A2, Nutgrove Office Park, |
| 11-00 | 12/01/22 | Unit A2, Nutgrove Office Park, Rathfarnham, |
| DESCRIPTION: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. |
| DESCRIPTION: | 12/01/22 | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 |
| DESCRIPTION: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. |
| DESCRIPTION: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com |
| DESCRIPTION: G A V I N G E O S | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com |
| DESCRIPTION: G A V I N G E O S ISSUED AS: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com |
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| DESCRIPTION: DESCRIPTION: G A V I N G E O S ISSUED AS: CLIENT: PROJECT TITLE: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com |
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| DESCRIPTION: DESCRIPTION: G A V I N G E O S ISSUED AS: CLIENT: PROJECT TITLE: DRAWING No: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com |
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| DESCRIPTION: DESCRIPTION: G A V I N G E O S ISSUED AS: CLIENT: PROJECT TITLE: DRAWING No: | ISSUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com TION TION -XX-DR-C-0010 Revision: -FI -00 |
| DESCRIPTION: DESCRIPTION: G A V I N G E O S ISSUED AS: CLIENT: PROJECT TITLE: DRAWING No: | ISUED FOR INFORMATION | Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com www.gdgeo.com |
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| POLLUTION PREVENTION NOTES: 1. Site management proposals are intended to ensure protection | | / DRAINAGE COINTROLS AVAILABLE OR USE ACROSS THE SITE | |
|--|------------------------------|--|--|
| AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION. 2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO DESUFUL CONVERTING OF OUTPUT ADDRESS OF OUT TO OFF OUTP | Management Type | DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS | |
| TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES. 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND. TEMPORARY STOCKPILES, PLANT AND WHEEL | Avoidance | APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE | |
| WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES. | CONTROLS | 3) USING SMALL WORKING AREAS4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED | 33989 mm m |
| DISCHARGES 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM | | WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, | |
| NEAREST WATERCOURSE UNLESS OTHERWISE STATED. 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE. | | VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: | |
| PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE. | SOURCE CONTROLS: | A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE | |
| 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH | | 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING | |
| PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY. | | 5) WEATHERING OFF / SEALING PEAT STOCKPILES I) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED | |
| EXCAVATIONS 9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO | | SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL | 372 m |
| REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS. EXPOSED GROUND & STOCKPILES | | C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS | |
| 10. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE. | IN-LINE CONTROLS: | F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. | |
| <u>SITE TRACKS</u> II. Use of track side swales with check dams, and/or filtration check dams will reduce silt in runoff water as required. I2. Check dams to be inspected and cleaned regularly. | | 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS | |
| REFUELING I3. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED | | 5) ATTENUATION PONDS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS | |
| REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS | | TEMPORARY SUMPS ATTENUATION PONDS TEMPORARY STORAGE PONDS | |
| REQUIRED. <u>Concrete</u> 15. Care will be taken when completing concrete works on site to | WATER IREATMENT CONTROLS: | 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. | |
| ENSURE NO DISCHARGES OCCUR. 16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE. | | 6) SILT DEWATERING BAGS I) LEVELSPREADERS | |
| IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO: | OUTFALL CONTROLS: | 2) BUFFERED OUTFALLS 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS | 148 m |
| \underline{STOP} - work in the immediate area should be stopped and the source of the pollution identified. | 355 m m | | |
| <u>CONTAIN</u> - the source of the pollution should be bunded using a suitable method. Natural watercourses should be temporarily diverted around the source of pollution. | \sum | 350 | |
| NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / Local Authority etc.) should be notified immediately to ensure that | | | |
| MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS. | | | |
| DRAINAGE NOTES: I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO | | | 0 |
| | (+) ···) | 358 m | PR PR |
| ENGINEER'S SPECIFICATION (I.E. BY OTHERS). 2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR | | APPLICATION | SP TW 0 |
| 2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR | \$ 352 m | | SP |
| 2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. 3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE | \$ 352 m | APPLICATION | SP TW |
| SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING | 352 m | APPLICATION | SP TW |
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| SPARE STRAW BALES/SILT FERCING/OR SIMULAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE MONITORED VISUALLY AND XECONSTRUCTED PRIOR TO, OR AT THE SAME THE AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LINELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE. SUTALE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCONSES. SEE NOTES ON POLLICITON PREVENTION. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SUFFACE WATER FLOWS. RECOLLAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE TO FIELD DITCHES/ORAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE TO THE SWALES / DITCHES. TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE JOACTED TO THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE ADREED TO THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE ADREED TO THE SWALES / DITCHES. MATER COLLECTING IN THE SWALES / DITCHES. WATER WOLL BE AD DISCHARGES ARE PROPOSED FROM ACCESS TRACKS WALES / DITCHES. WHERE MORE MALES / BUTCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT EXCENSIVE WILL MOLE ALONG ALCESS TRACKS. WHERE MORE SOUTH BE ADDREED TO DISCHARGE AND SULE CONTINUE ACCESSING WALES / DITCHES TO ALLY ADDREED TO SULE CACTOR DURAL MONITON | | APPLICATION SITE BOUINDARY 384 m | 0 380 0 0 |
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| POLLUTION PREVENTION NOTES: I. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION | | / DRAINAGE COINTROLS AVAILABLE | 177 II 470 PI |
|--|------------------------------|---|---|
| AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION. | Management Type | DESCRIPTION OF SUDS DRAINAGE CONTROL | 494 m 498 A98 m |
| SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES. | | METHODS I) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE | |
| 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS | | 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE | 502 m |
| AND DITCHES. | CONTROLS | 3) USING SMALL WORKING AREAS4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED | 500 m 498 m 498 m |
| DISCHARGES 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO | | I) USE OF UPSTREAM INTERCEPTOR DRAINS AND | |
| EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED. | | DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES | 500 m504 m |
| NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED | Source Controls: | 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL | 505474m m Coomagdarlahy |
| IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE. 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN | SOURCE CONTROLS: | C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE | 504 m 502 m |
| DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS | | SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING | 498 m |
| WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES | | 5) WEATHERING OFF / SEALING PEAT STOCKPILES | |
| UNLESS ABSOLUTELY NECESSARY. | | INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS EROSION AND VELOCITY CONTROL MEASURES SUCH AS: | |
| 9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS | | A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS | 488 m 48 |
| WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS. EXPOSED GROUND & STOCKPILES | | D) STRAW BALES E) FLOW LIMITERS | 486 m |
| 10. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE. | IN-LINE CONTROLS: | F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. | 484 m |
| SITE TRACKS II. Use of track side swales with check dams, and/or filtration check | | 3) SILT FENCES, FILTER FABRICS4) IN STREAM SEDIMATS | 480 m |
| DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY. | | 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION PONDS | 474 m |
| REFUELING I3. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND | | 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS1) TEMPORARY SUMPS | 470 m |
| AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS | | ATTENUATION PONDS TEMPORARY STORAGE PONDS | |
| REQUIRED. | WATER IREATMENT CONTROLS: | 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR | |
| 15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR. 16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED | | APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS | |
| APPROPRIATELY ON SITE. | | I) LEVELSPREADERS2) BUFFERED OUTFALLS3) VEGETATION FILTERS | |
| IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO: | CONTALL CONTROLS. | 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS | |
| \underline{STOP} - work in the immediate area should be stopped and the source of the pollution identified. | | | |
| <u>CONTAIN</u> - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A | | | 24.3.8 |
| SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION. | | | 87M |
| \underline{NOTIFY} - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that | | | |
| MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS. | | | |
| DRAINAGE NOTES: I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS). | | 426 m | T03 |
| 2. Spare straw bales/silt fencing/ or similar, to be stored on | | | |
| SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE | | | |
| | | | |
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- . SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND
- EROSION. 2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE
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Discharges

AND DITCHES.

- 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
- 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER
- BUFFER ZONE. 6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
- DISCHARGE. 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS
- WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.
 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

EXCAVATIONS

9. Where deep excavations are proposed cut-off drains will be use to reduce the amount of surface water entering the excavation. This will be the case around turbine base excavations.

EXPOSED GROUND & STOCKPILES

 THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

SITE TRACKS

 Use of track side swales with check dams, and/or filtration check dams will reduce silt in runoff water as required.
 Check dams to be inspected and cleaned regularly.

Refueling

- 13. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED
- REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRETE

15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.

CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

 \underline{STOP} - work in the immediate area should be stopped and the source of the pollution identified.

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AROUND THE SOURCE OF POLLUTION. NOTIFY - The relevant authorities (Site Manager / Fisheries / NPWS

<u>NOTIFY</u> - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that measures can be implemented downstream to protect fisheries and other

SENSITIVE AREAS. DRAINAGE NOTES:

I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).

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4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

 INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
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DIRECTLY INTO EXISTING WATERCOURSES. 7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE

PROPOSED FROM ACCESS TRACK SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : I.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT

TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPENDS ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501. II. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO

AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 12. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /

EPHEMERAL CHANNELS. 13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED

VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.

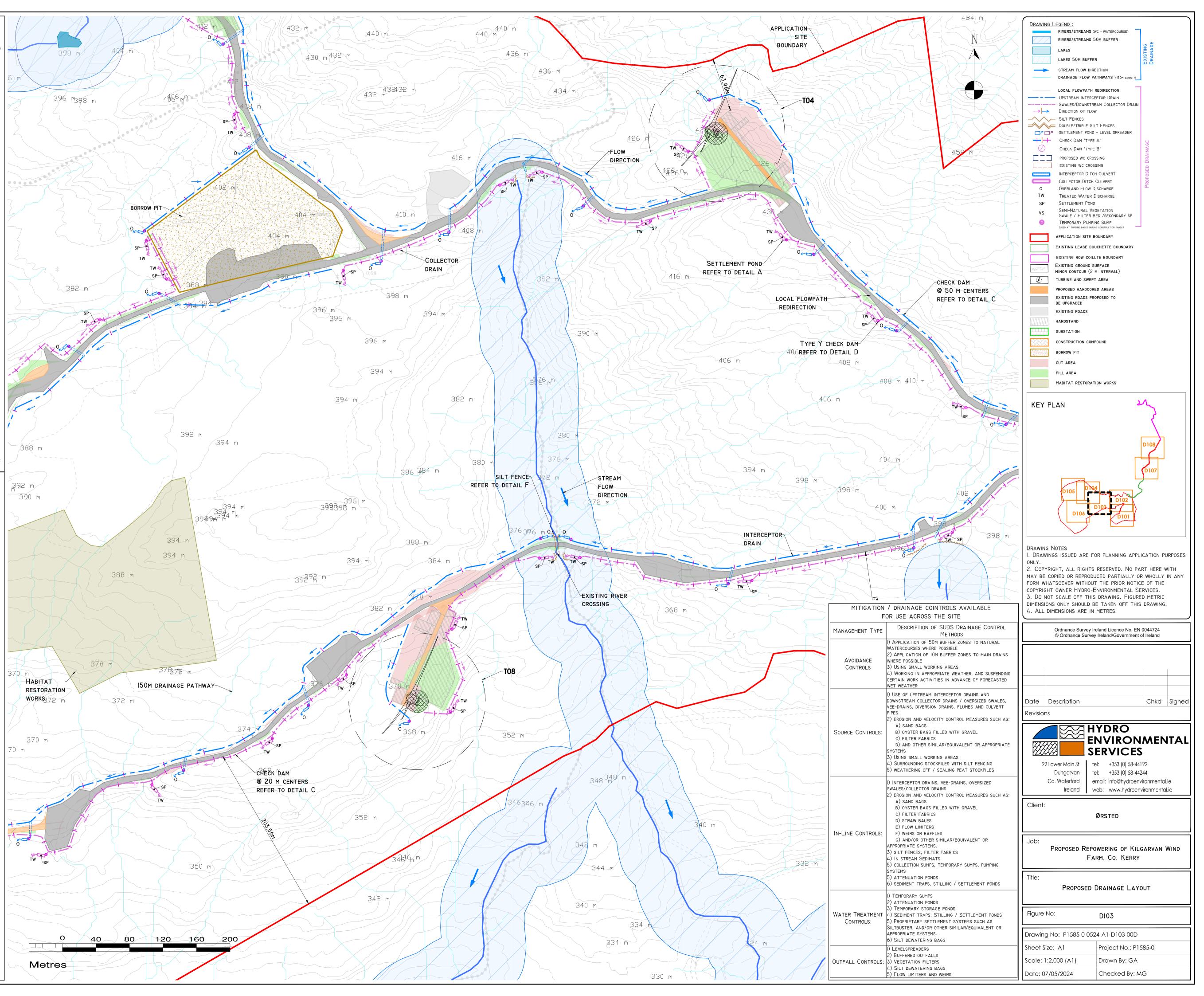
14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY
WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR
STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING
SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM
WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL
FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT

STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.



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Discharges

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SITE TRACKS

 USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
 CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

Refueling

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MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS.

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8. BATTERS OF ALL PROPOSED SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : 1.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT

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STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO
 AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE
 REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
 I2. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE
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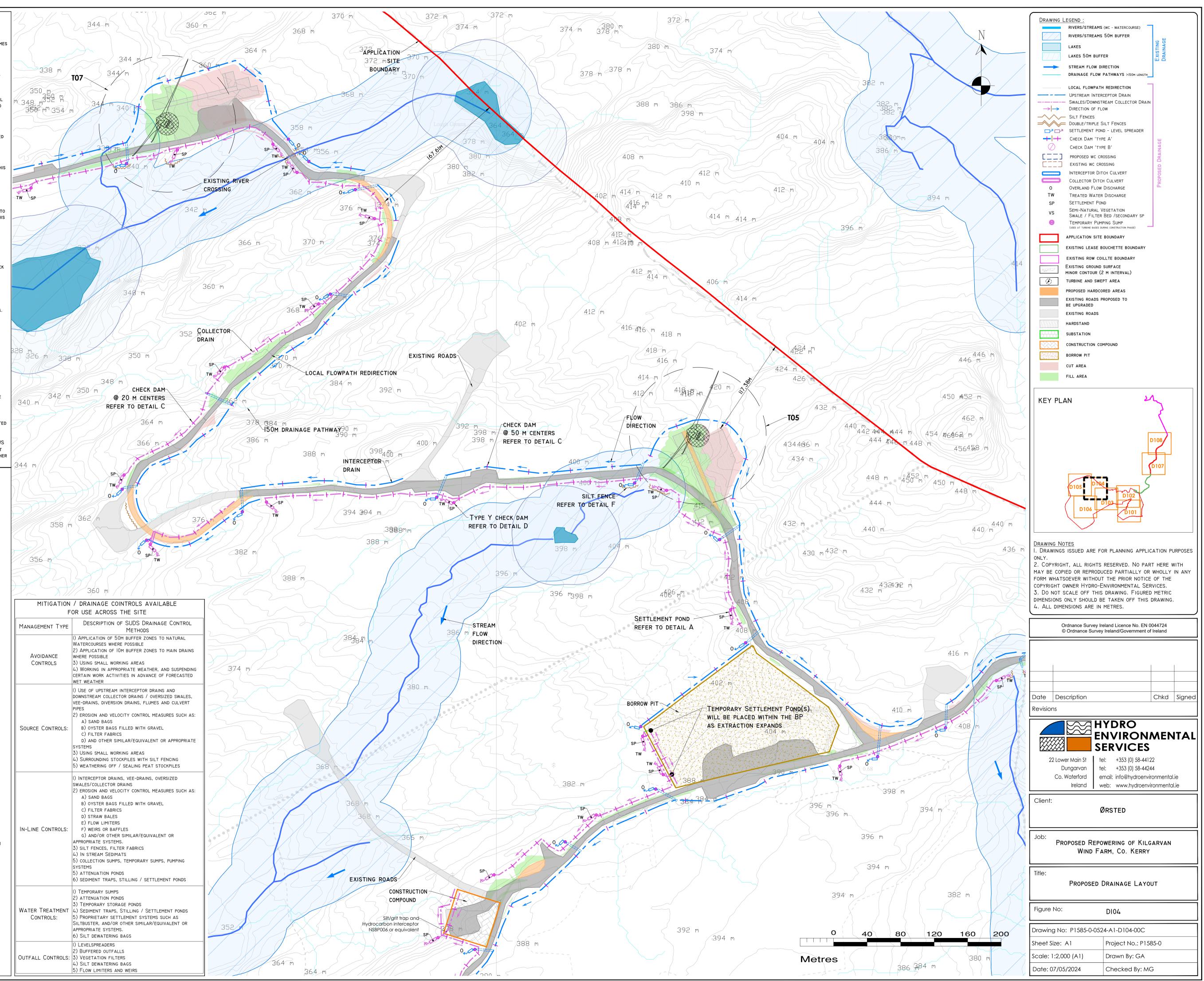
POINTS. 14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM. 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

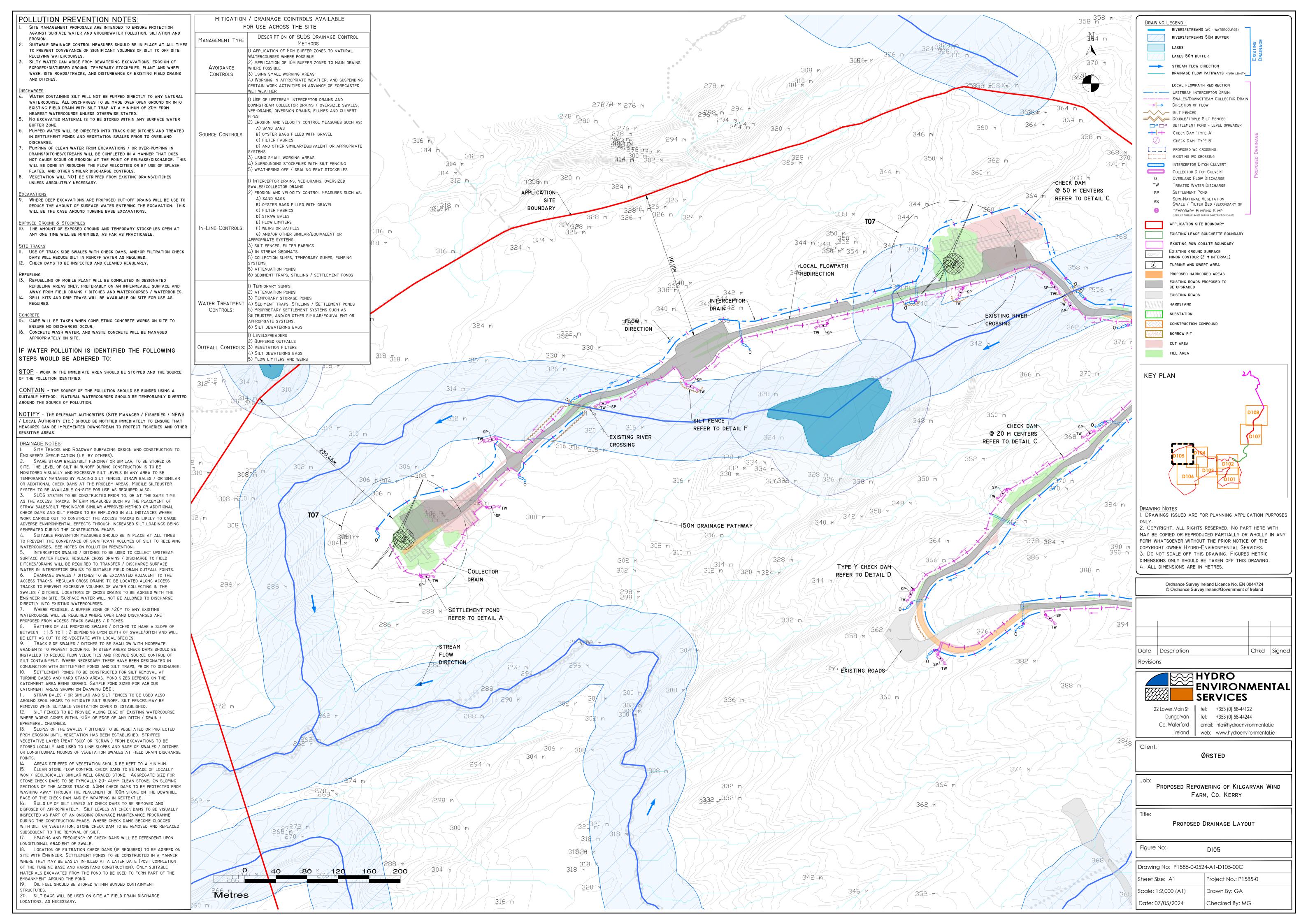
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17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT

STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.





- SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND FROSION.
- SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE
- RECEIVING WATERCOURSES. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

Discharges

- WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM
- NEAREST WATERCOURSE UNLESS OTHERWISE STATED. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER
- BUFFER ZONE. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
- DISCHARGE. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS
- WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

XCAVATIONS

WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO reduce the amount of surface water entering the excavation. This WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

0. The amount of exposed ground and temporary stockpiles open at ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

SITE TRACKS

USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 2. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

Refueling

- REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED
- REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

Concrete

- . CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR. . CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED
- APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

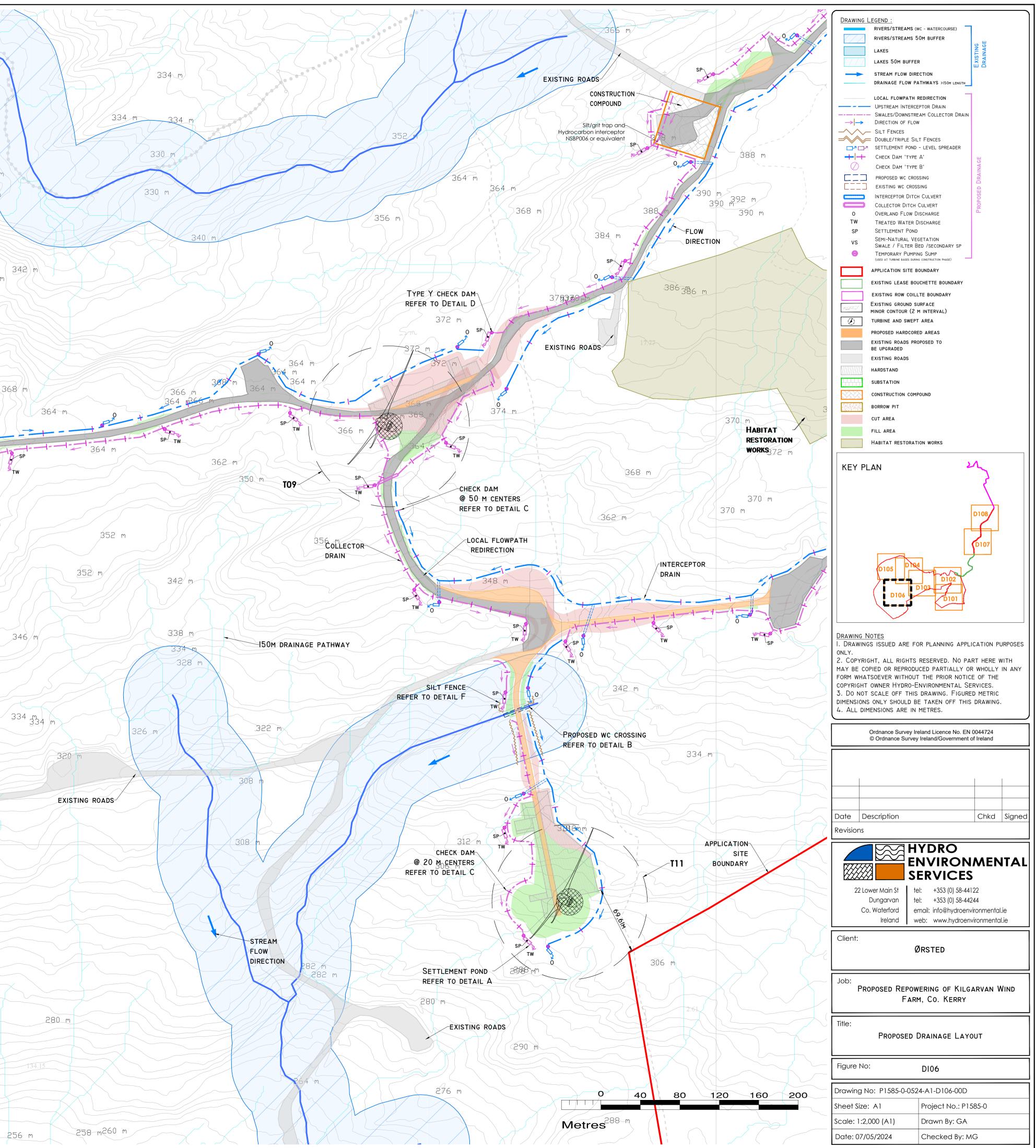
STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT

SENSITIVE AREAS.

- DRAINAGE NOTES: SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
- SPARE STRAW BALES/SILT FENCING/ OR SIMILAR. TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER
- SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
- +. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.
- INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS. 6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE
- DIRECTLY INTO EXISTING WATERCOURSES WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE
- PROPOSED FROM ACCESS TRACK SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN | : 1.5 TO | : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
- TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 0. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT
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- STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 12. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /
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- 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM washing away through the placement of 100m stone on the downhill FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
- 16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
- 17. Spacing and frequency of check dams will be dependent upon LONGITUDINAL GRADIENT OF SWALE.
- 18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND. 19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT
- STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.
- 322 m 306 m 324 m 324 m 330 m 330 m 330 m 330 m 336 m 334338 m 334 m 332 m 330 m 338 m 338 m 344 m 342 m 344 m 346 m /T10~ 366^{λ} 368/ m 366 m 366 m -+---+----+ 356 m / EXISTING ROADS-360 m MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER 358 m 362 m-360 LEXPERCANNOR 352 m 348 m _350 m 344 m 344 m X 346 m 340 m MITIGATION / DRAINAGE COINTROLS AVAILABLE FOR USE ACROSS THE SITE DESCRIPTION OF SUDS DRAINAGE CONTROL MANAGEMENT TYPE METHODS APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 328 m 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS Avoidance WHERE POSSIBLE CONTROLS 3) USING SMALL WORKING AREAS 4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS SOURCE CONTROLS: B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS IN-LINE CONTROLS: F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR 282 m APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION PONDS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS I) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS WATER TREATMENT 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS CONTROLS: 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS I) LEVELSPREADERS 2) BUFFERED OUTFALLS OUTFALL CONTROLS: 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS



- SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
- SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
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Discharges

- 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
- 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
- PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
- 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.
- 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

EXCAVATIONS

O. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

10. The amount of exposed ground and temporary stockpiles open at any one time will be minimised, as far as practicable.

SITE TRACKS

 USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
 CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

Refueling

 REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES.
 SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

Concrete

- 15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.
- CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

 \underline{STOP} - work in the immediate area should be stopped and the source of the pollution identified.

 $\underline{CONTAIN}$ - the source of the pollution should be bunded using a suitable method. Natural watercourses should be temporarily diverted around the source of pollution.

NOTIFY - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that measures can be implemented downstream to protect fisheries and other sensitive areas.

DRAINAGE NOTES:

I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).

2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.

3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

 INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
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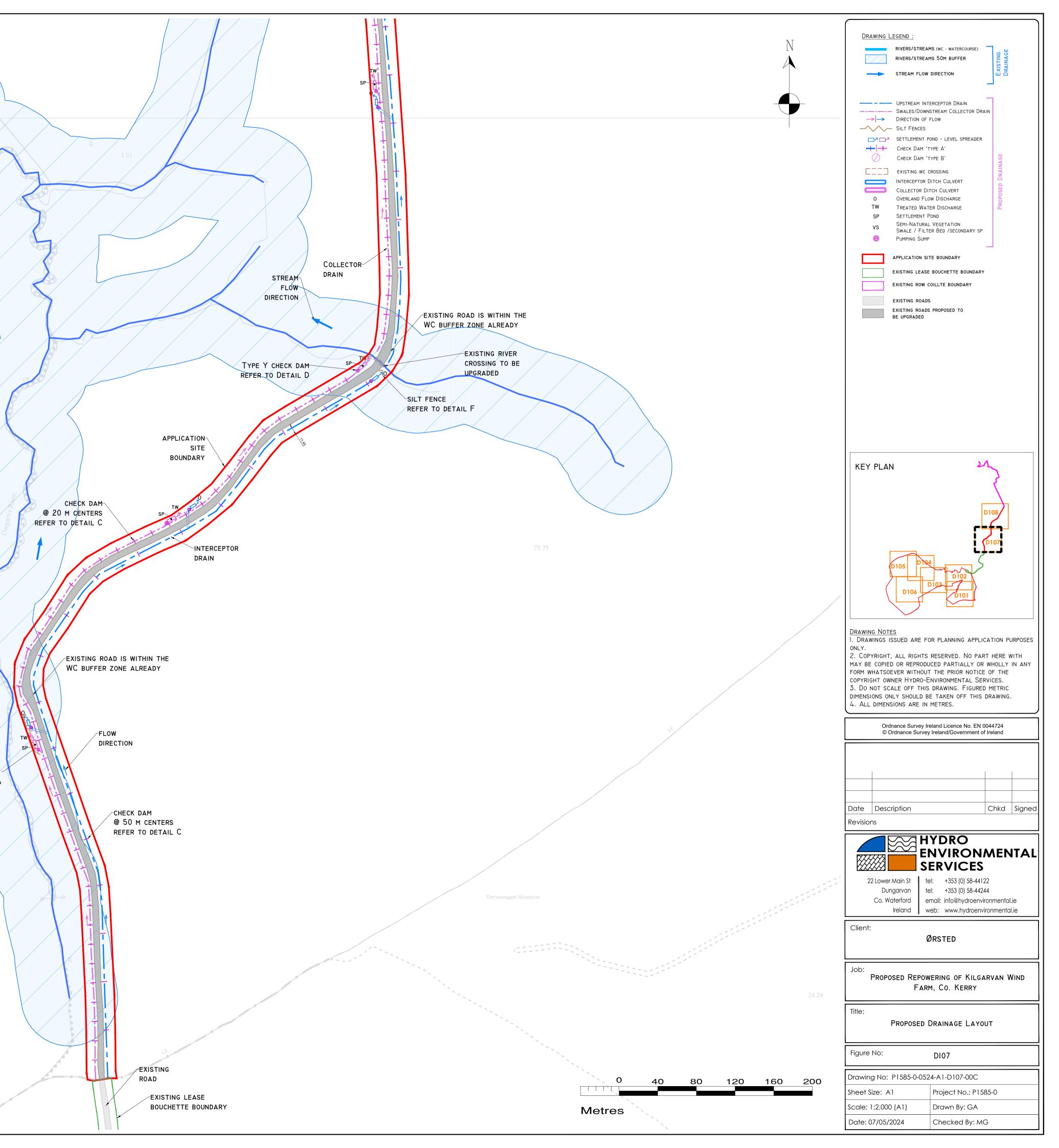
STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.

| | / DRAINAGE COINTROLS AVAILABLE OR USE ACROSS THE SITE |
|------------------------------|--|
| Management Type | DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS |
| Avoidance Controls | APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE USING SMALL WORKING AREAS WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER |
| Source Controls: | USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES EROSION AND VELOCITY CONTROL MEASURES SUCH AS A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS JUSING SMALL WORKING AREAS SURROUNDING STOCKPILES WITH SILT FENCING WEATHERING OFF / SEALING PEAT STOCKPILES |
| IN-LINE CONTROLS: | INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS EROSION AND VELOCITY CONTROL MEASURES SUCH AS A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS ATTENUATION PONDS SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS |
| WATER TREATMENT CONTROLS: | TEMPORARY SUMPS ATTENUATION PONDS TEMPORARY STORAGE PONDS SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT DEWATERING BAGS |
| OUTFALL CONTROLS: | LEVELSPREADERS BUFFERED OUTFALLS VEGETATION FILTERS SILT DEWATERING BAGS |

4) SILT DEWATERING BAGS

5) FLOW LIMITERS AND WEIRS

SETTLEMENT POND -



- SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND FROSION
- SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIME TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE
- RECEIVING WATERCOURSES. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

Discharges

- WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM
- NEAREST WATERCOURSE UNLESS OTHERWISE STATED. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
- PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
- DISCHARGE. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS
- WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

XCAVATIONS

WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

0. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

SITE TRACKS

. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

Refueling

. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED

REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRET

5. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR. 6. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED

APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER

SENSITIVE AREAS. DRAINAGE NOTES:

SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).

2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER

SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS. 6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES

WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE

PROPOSED FROM ACCESS TRACK SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : 1.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 0. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT

TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPENDS ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.

I. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 12. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /

EPHEMERAL CHANNELS. 13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE

POINTS. 14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM. 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM washing away through the placement of 100m stone on the downhill

FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE. 16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

17. Spacing and frequency of check dams will be dependent upon LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND. 19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT

STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.

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MITIGATION / DRAINAGE COINTROLS AVAILABLE FOR USE ACROSS THE SITE DESCRIPTION OF SUDS DRAINAGE CONTROL MANAGEMENT TYPE METHODS APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS Avoidance WHERE POSSIBLE CONTROLS 3) USING SMALL WORKING AREAS 4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS SOURCE CONTROLS: B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES I) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS IN-LINE CONTROLS: F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION PONDS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS I) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS WATER TREATMENT 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS CONTROLS: 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR

APPROPRIATE SYSTEMS.

2) BUFFERED OUTFALLS

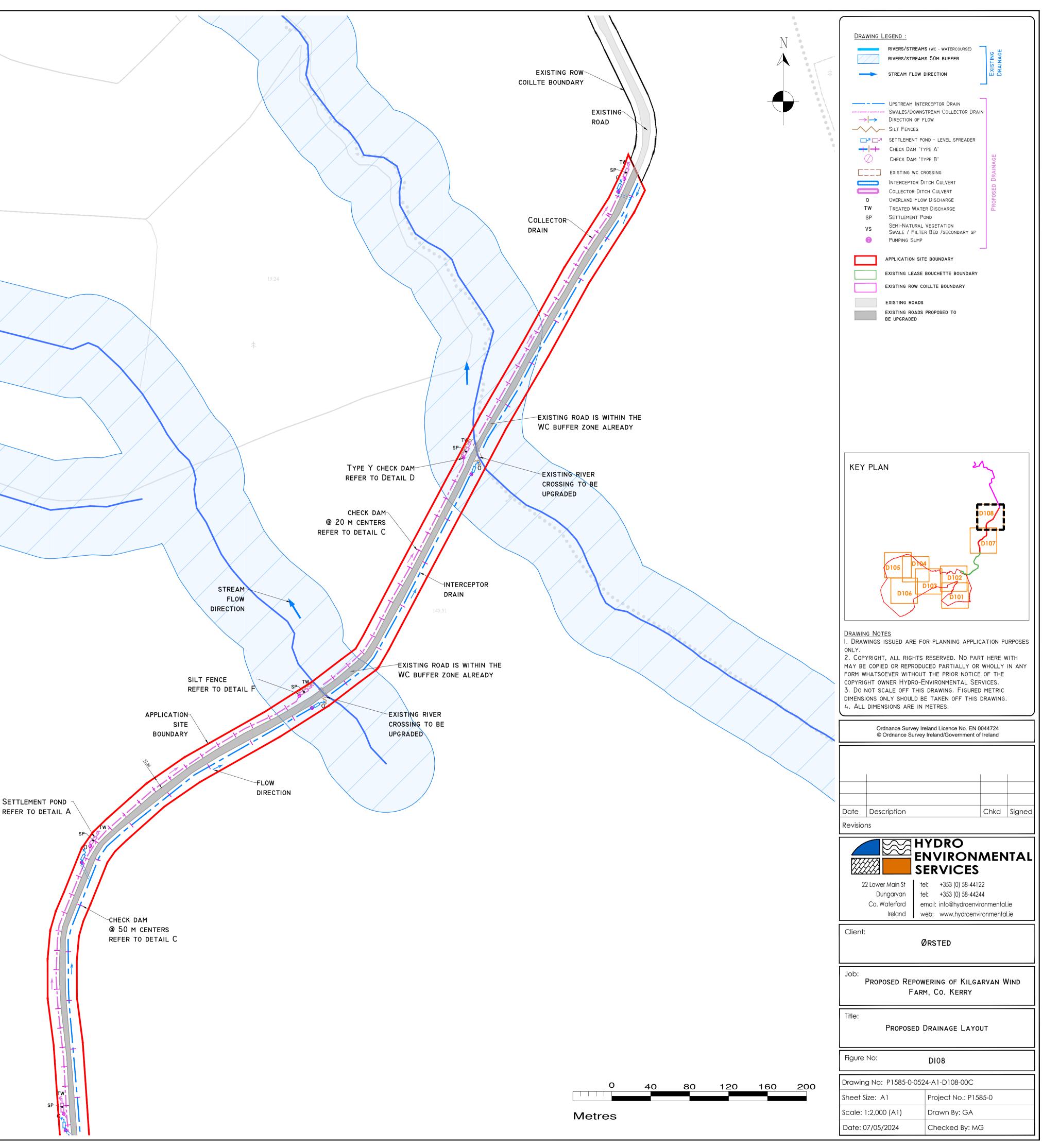
I) LEVELSPREADERS

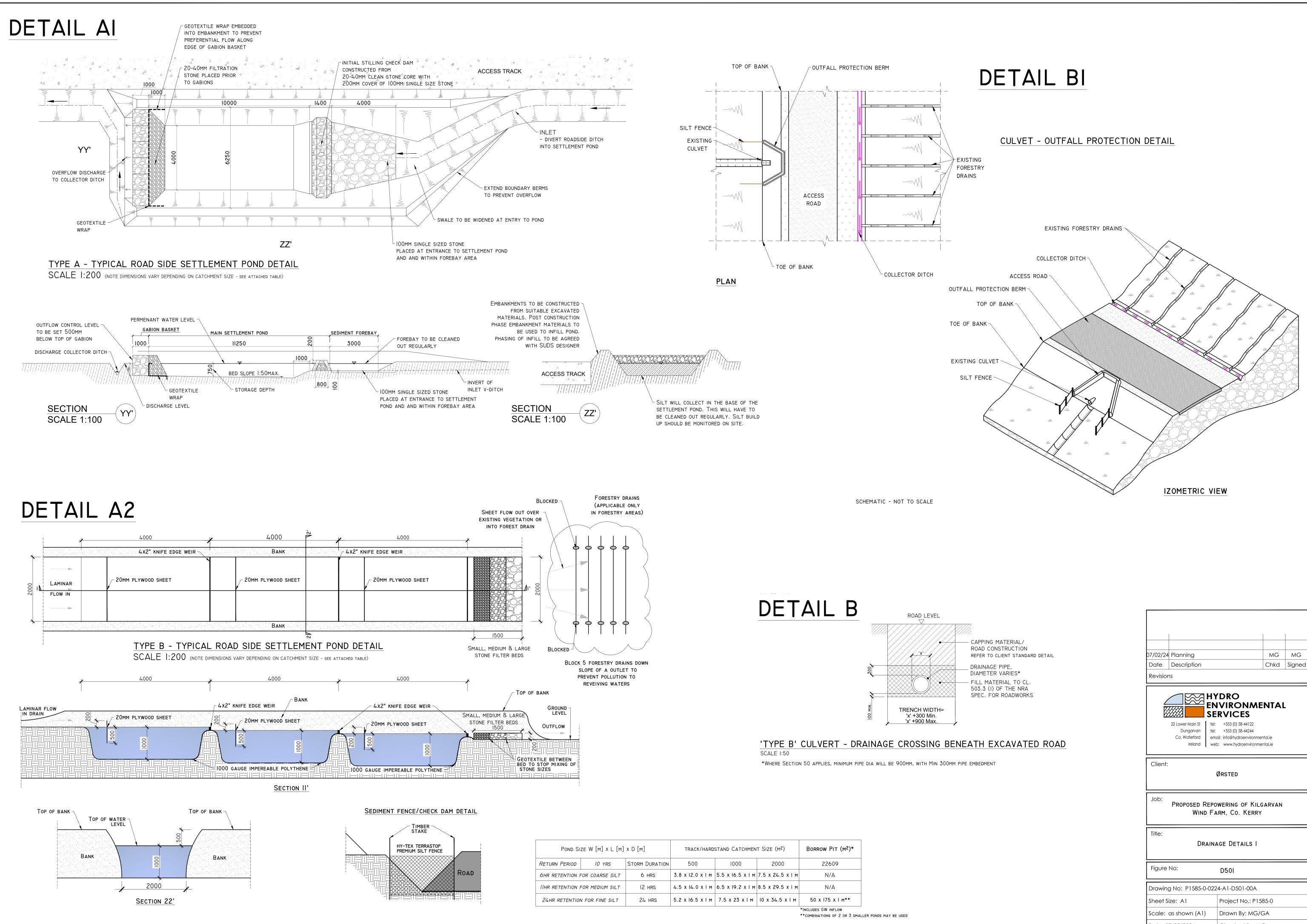
OUTFALL CONTROLS: 3) VEGETATION FILTERS

6) SILT DEWATERING BAGS

4) SILT DEWATERING BAGS

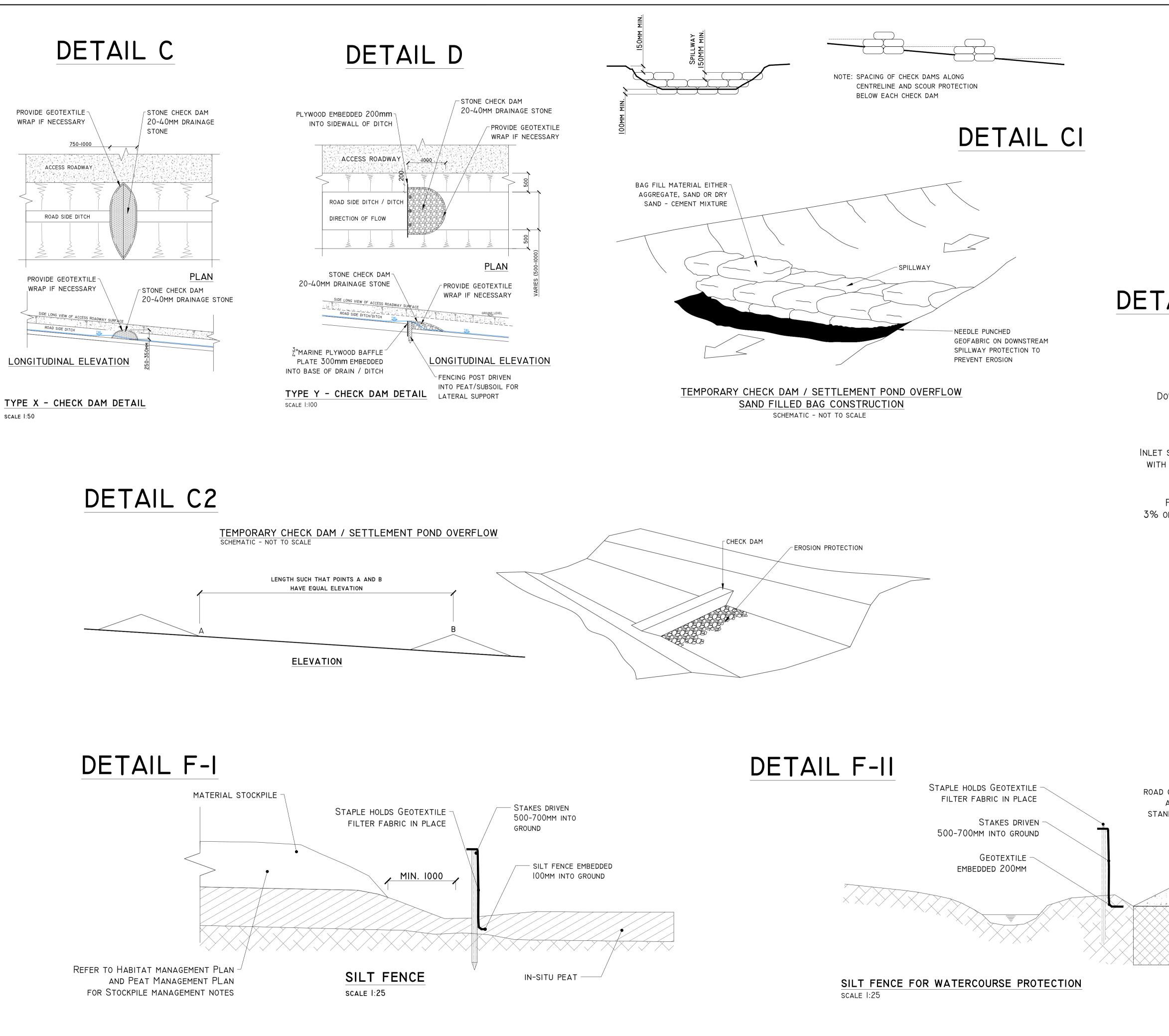
5) FLOW LIMITERS AND WEIRS





| POND SIZE W [M] X L [M] X D [M] | | TRACK/HARDSTAND CATCHMENT SIZE (M ²) | | | Borrow Pit (m²)* | |
|---------------------------------------|--------|--|------------------|------------------|------------------|-------|
| RETURN PERIOD | 10 YRS | STORM DURATION | 500 | 1000 | 2000 | 22609 |
| 6HR RETENTION FOR COARSE SILT 6 HRS | | 6 HRS | 3.8 x 12.0 x 1 m | 5.5 х 16.5 х 1 м | 7.5 х 24.5 х I м | N/A |
| Ilhr retention for medium silt 12 Hrs | | 12 HRS | 4.5 x 14.0 x 1 m | 6.5 х 19.2 х 1 м | 8.5 x 29.5 x I M | N/A |
| 24HR RETENTION FOR FINE SILT 24 HRS | | 5.2 x 16.5 x I m | 7.5 x 23 x I M | 10 x 34.5 x I m | 50 x 175 x 1 m** | |

| 07/02/24 | Planning | | MG | MG | | |
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| Client: | Client: ØRSTED | | | | | |
| Job: Proposed Repowering of Kilgarvan Wind Farm, Co. Kerry | | | | | | |
| Title: Drainage Details I | | | | | | |
| Figure No: D50I | | | | | | |
| Drawing | Drawing No: P1585-0-0224-A1-D501-00A | | | | | |
| Sheet Si | ize: Al | Project No.: P15 | 85-0 | | | |
| Scale: o | as shown (A1) | Drawn By: MG/0 | GA | | | |
| Date: 0 | 7/02/2024 | Checked By: MO | G | | | |



DETAIL G TYPICAL PIPE SPILLWAY DETAIL SCHEMATIC - NOT TO SCALE Down drain-DIVERSION BANK INLET STABILISED STEEP BATTER TO BE WITH SANDBAGS PROTECTED PIPE SLOPE FLEXIBLE PIPE -3% OF STEEPER 6D 1,3M AT LESS THAN 1% GRADE 3D+0.6M PROJECT DESIGN DRAWING NOTES I. DRAWINGS ISSUED ARE FOR PLANNING STAGE ONLY. 2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES. 3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING. MG MG 07/02/24 Planning Date Description Chkd Signed ROAD CONSTRUCTION Revisions AS PER CLIENT STANDARD DETAILS SERVICES 22 Lower Main St tel: +353 (0) 58-44122 Dungarvan tel: +353 (0) 58-44244 Co. Waterford email: info@hydroenvironmental.ie Ireland web: www.hydroenvironmental.ie Client: ØRSTED Job: Proposed Repowering of Kilgarvan WIND FARM, CO. KERRY Title: DRAINAGE DETAILS 2 Figure No: D502 Drawing No: P15850-0224-A1-D502-00A

Project No.: P1585-0

Drawn By: MG/GA

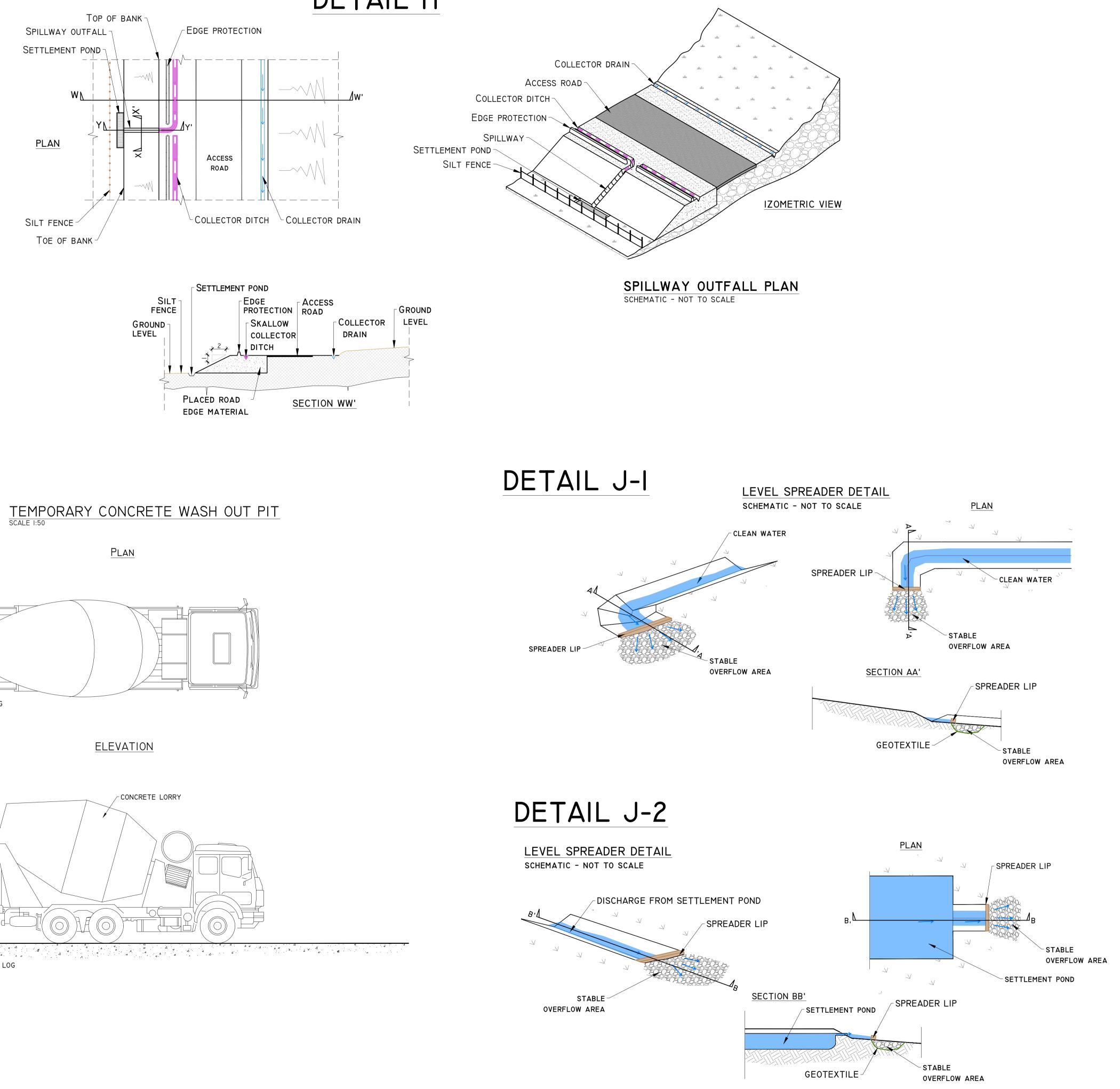
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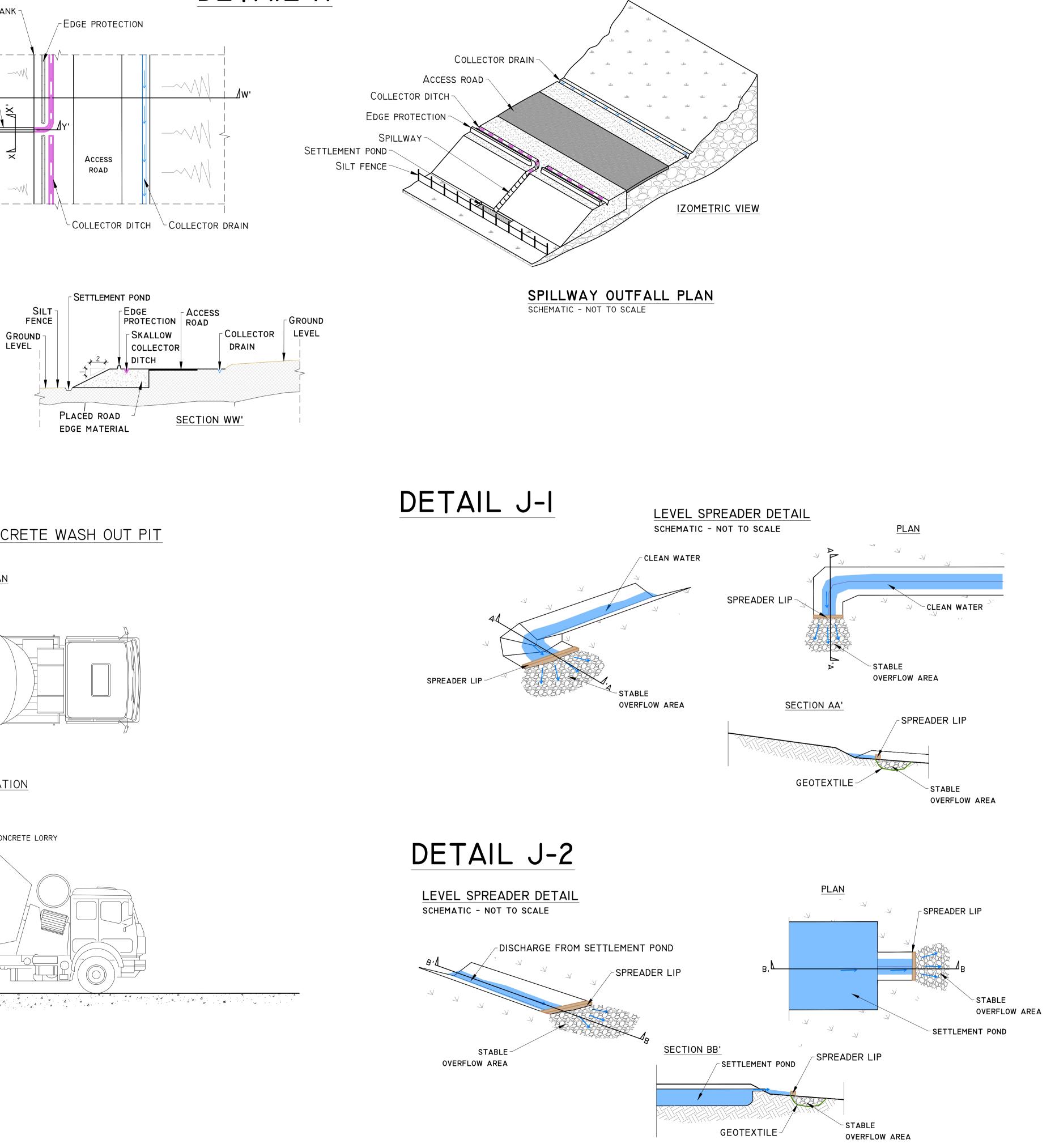
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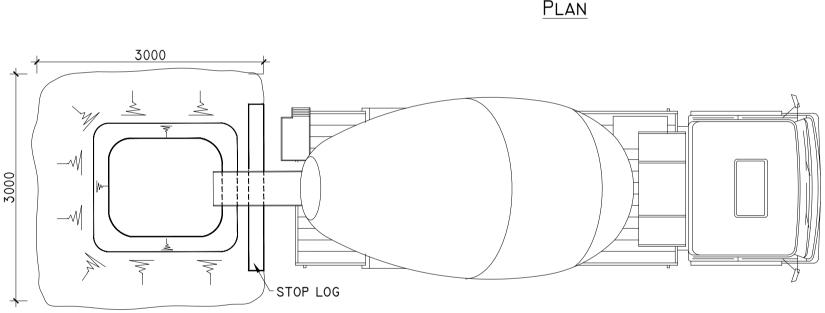
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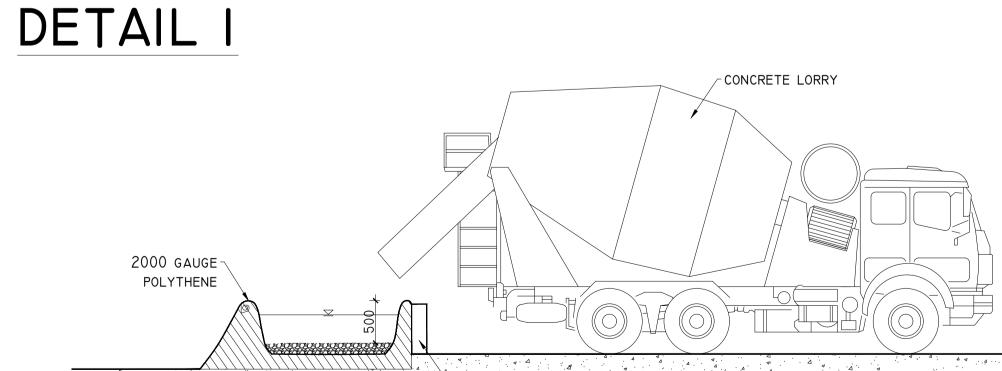
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DETAIL H

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