GARRANE GREEN ENERGY PROJECT PLANNING APPLICATION

DRAWINGS SCHEDULE

AUGUST 2025

DRAWINGS SCHEDULE

Drawings Schedule 6839-JOD-GGE-XX-DR-C-0000:

SITE LOCATION MAPS

6839-JOD-GGE-XX-DR-C-0100: 6839-JOD-GGE-XX-DR-C-0101: 6839-JOD-GGE-XX-DR-C-0102: Windfarm Location Map - OSI Map Series

SITE LAYOUT PLANS 6839-JOD-GGE-XX-DR-C-0200: Overall Site Layout Plan & Index Sheet Proposed Windfarm Layout Plan - Sheet 1 Of 12 6839-JOD-GGE-XX-DR-C-0201: 6839-JOD-GGE-XX-DR-C-0202: Proposed Windfarm Layout Plan - Sheet 2 Of 12 6839-JOD-GGE-XX-DR-C-0203: Proposed Windfarm Layout Plan - Sheet 3 Of 12 Proposed Windfarm Layout Plan - Sheet 4 Of 12 6839-JOD-GGE-XX-DR-C-0204: 6839-JOD-GGE-XX-DR-C-0205: Proposed Windfarm Layout Plan - Sheet 5 Of 12 6839-JOD-GGE-XX-DR-C-0206: Proposed Windfarm Layout Plan - Sheet 6 Of 12 Proposed Windfarm Layout Plan - Sheet 7 Of 12 6839-JOD-GGE-XX-DR-C-0207: 6839-JOD-GGE-XX-DR-C-0208: Proposed Windfarm Layout Plan - Sheet 8 Of 12 6839-JOD-GGE-XX-DR-C-0209: Proposed Windfarm Layout Plan - Sheet 9 Of 12 N20 Site Entrance 01 Junction 6839-JOD-GGE-XX-DR-C-0210: Visibility - Sheet 10 Of 12 6839-JOD-GGE-XX-DR-C-0211: L1537 Site Entrance 02 to Substation Junction Visibility - Sheet 11 Of 12 6839-JOD-GGE-XX-DR-C-0212: N20 Site Entrance 01 Reinstatement Details - Sheet 12 Of 12 6839-JOD-GGE-XX-DR-C-0213:

6839-JOD-GGE-XX-DR-C-0214:

6839-JOD-GGE-XX-DR-C-0215:

6839-JOD-GGE-XX-DR-C-0216:

Overall Site Location Map - Discovery Series Overall Site Location Map - OSI Map Series

Post Construction Site Reinstatement Details - Sheet 01 Of 03

Post Construction Site Reinstatement Details

- Sheet 02 Of 03 Post Construction Site Reinstatement Details

- Sheet 03 Of 03

Post Construction Hardstand Details T04 To T08

(Present in Flood Zone)

DRAINAGE DETAILS:

6839-JOD-GGE-XX-DR-C-0301: Drainage Details - Sheet 1 Of 4 6839-JOD-GGE-XX-DR-C-0302: Drainage Details - Sheet 2 Of 4 Drainage Details - Sheet 3 Of 4 6839-JOD-GGE-XX-DR-C-0303: 6839-JOD-GGE-XX-DR-C-0304: Drainage Details - Sheet 4 Of 4

ACCESS TRACK & CROSSING DETAILS:

6839-JOD-GGE-XX-DR-C-0401: **Access Track Construction Details** 6839-JOD-GGE-XX-DR-C-0402: Proposed Water Crossing WC01 6839-JOD-GGE-XX-DR-C-0403: Proposed Water Crossing WC02

6839-JOD-GGE-XX-DR-C-0404: Existing Outfall Pipeline (Kerry Group) Crossing Detail

TURBINE & CRANE HARDSTAND DETAILS:

6839-JOD-GGE-XX-DR-C-0501: **Proposed Crane Hardstand Details**

6839-JOD-GGE-XX-DR-C-0502: **Proposed Gravity Turbine Foundations Details** 6839-JOD-GGE-XX-DR-C-0503: Proposed Pile Turbine Foundations Details

6839-JOD-GGE-XX-DR-C-0504: **Proposed Wind Turbine Elevations**

MET MAST:

6839-JOD-GGE-XX-DR-C-0701: **Proposed Met Mast Details**

COMPOUND DETAILS:

6839-JOD-GGE-XX-DR-C-0801: **Proposed Temporary Compound Details** 6839-JOD-GGE-XX-DR-C-0802: Proposed Spoil Storage Berm at Substation

Cross Section Detail

6839-JOD-GGE-XX-DR-C-0803: Temporary Wheel Wash System

TRENCH DETAILS:

6839-JOD-GGE-XX-DR-C-0901: **Proposed Cable Trench Details** DRAWINGS SCHEDULE



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date	modifications	Δ	С	Α		

Garrane Green Energy Ltd.



Garrane Green Energy Project, Garrane, Co. Limerick.

Stage Planning

Drawings Schedule

N.T.S @ A3

Checked Approved Date A.O.G Aug 2025

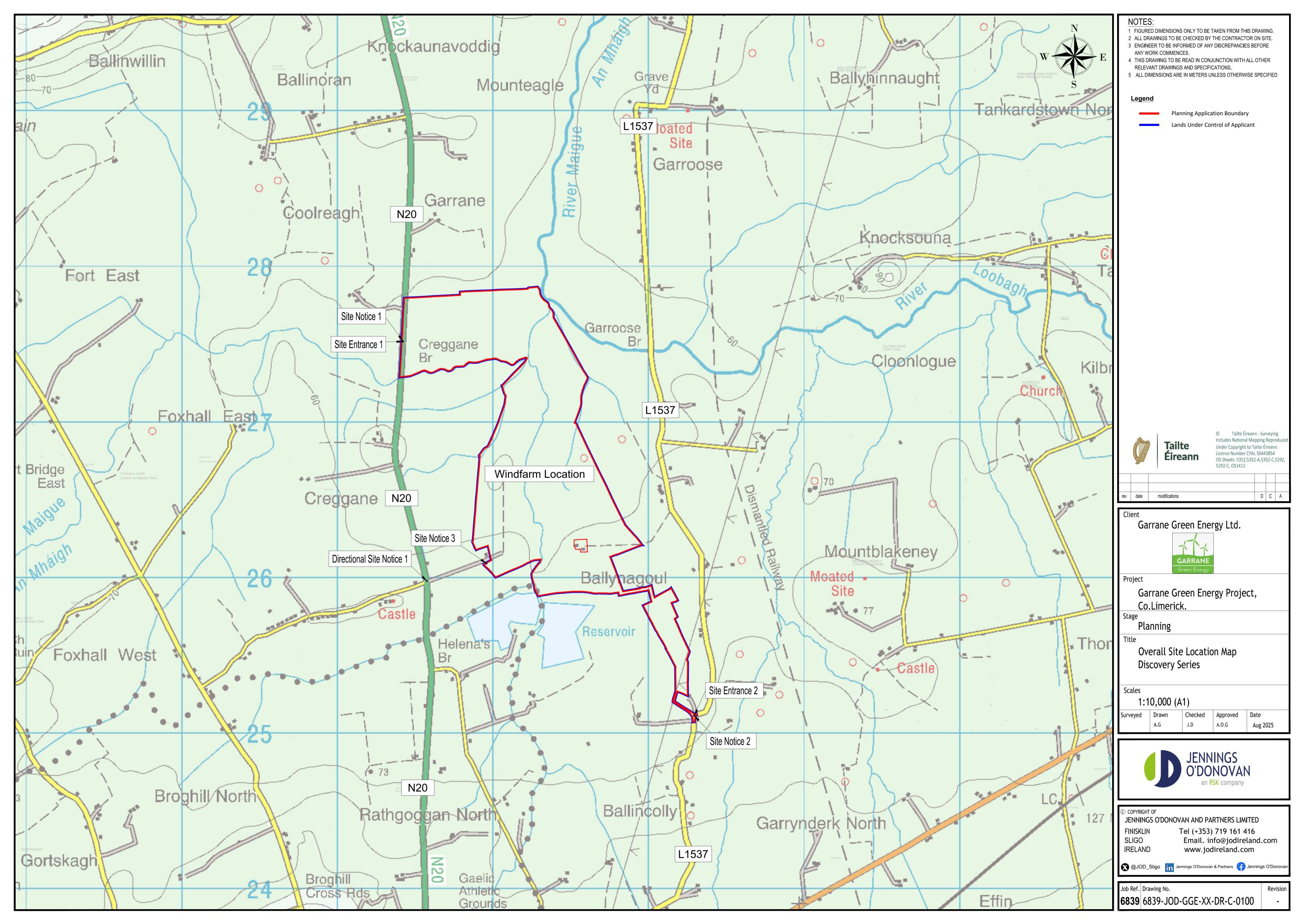


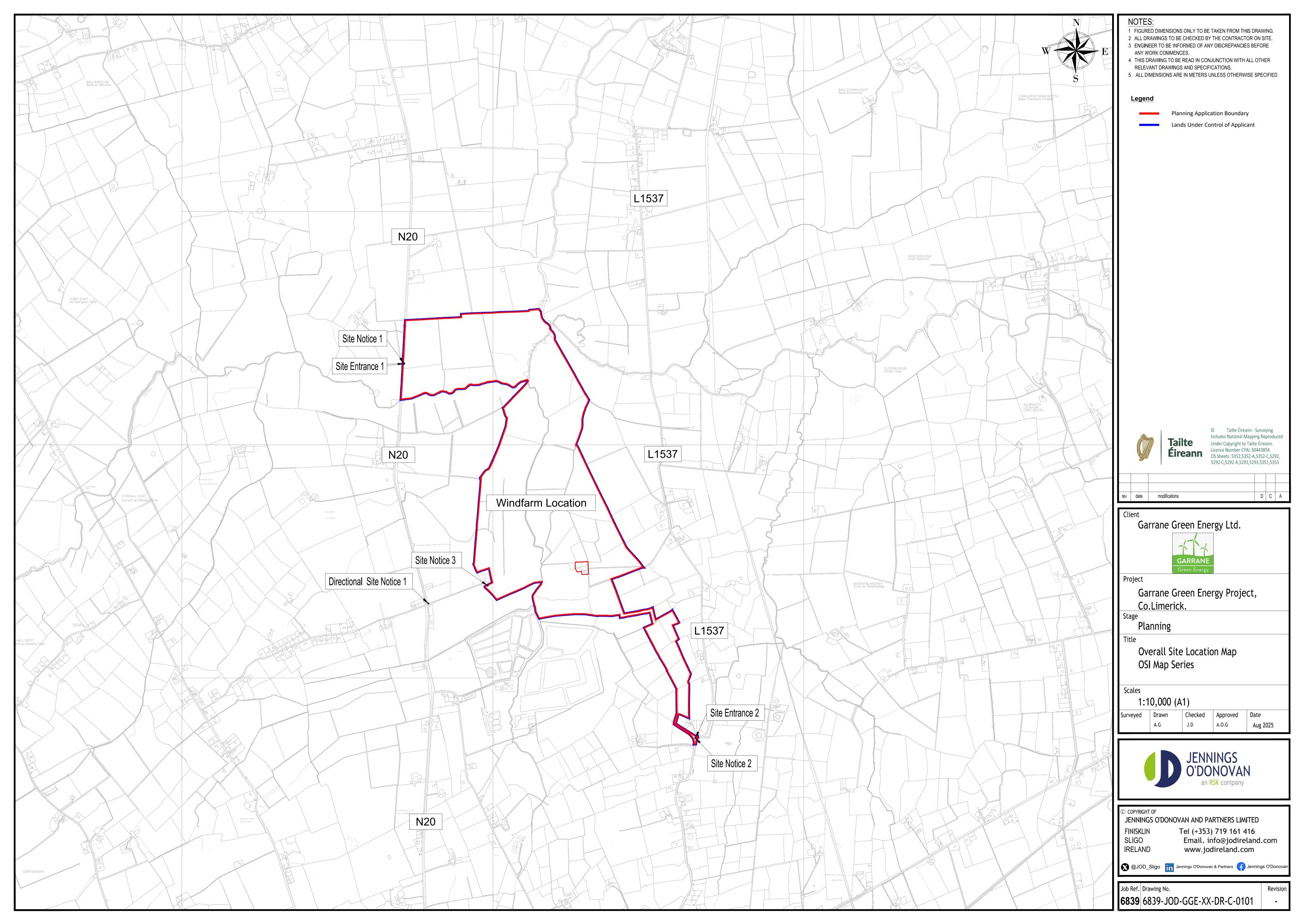
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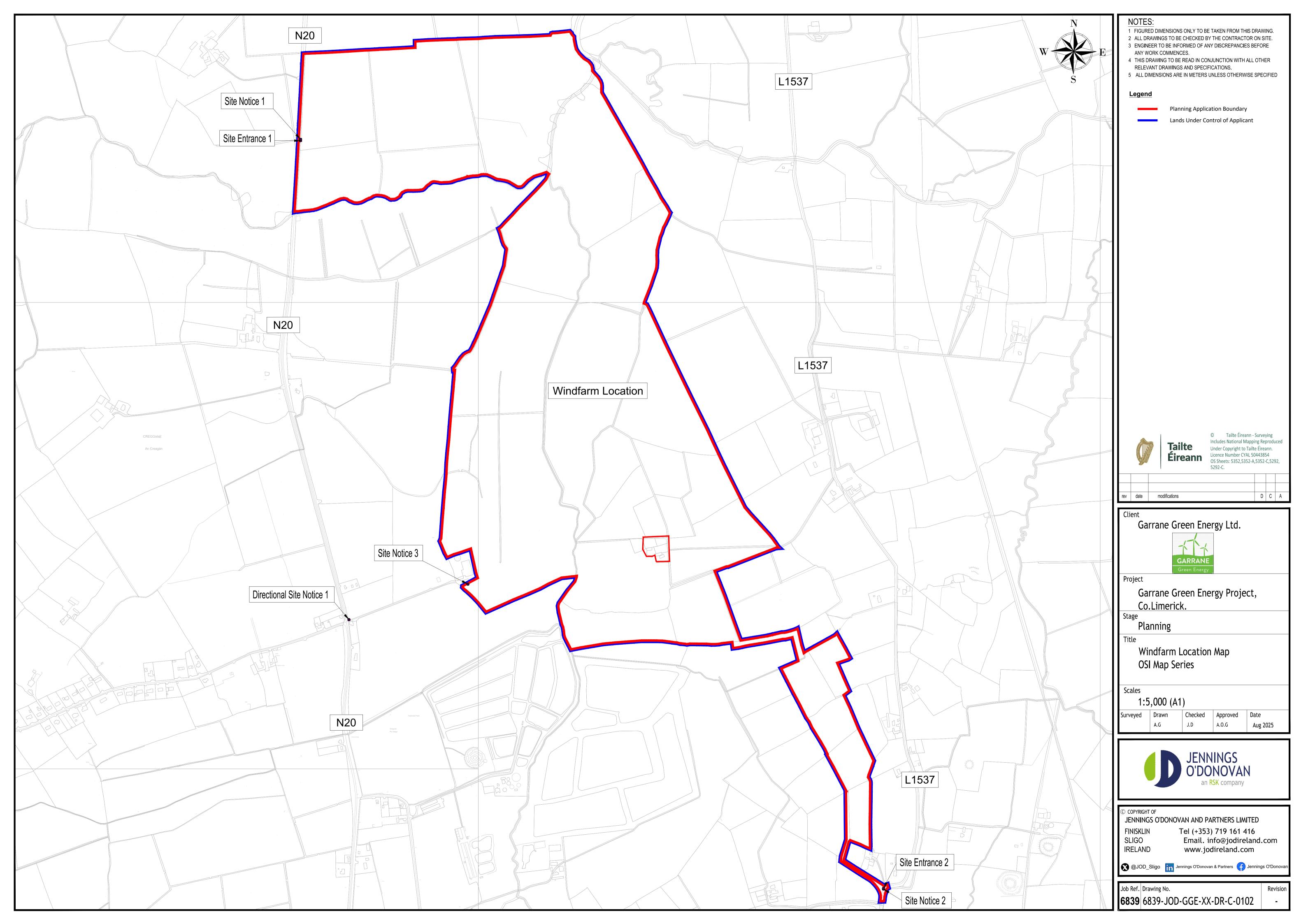
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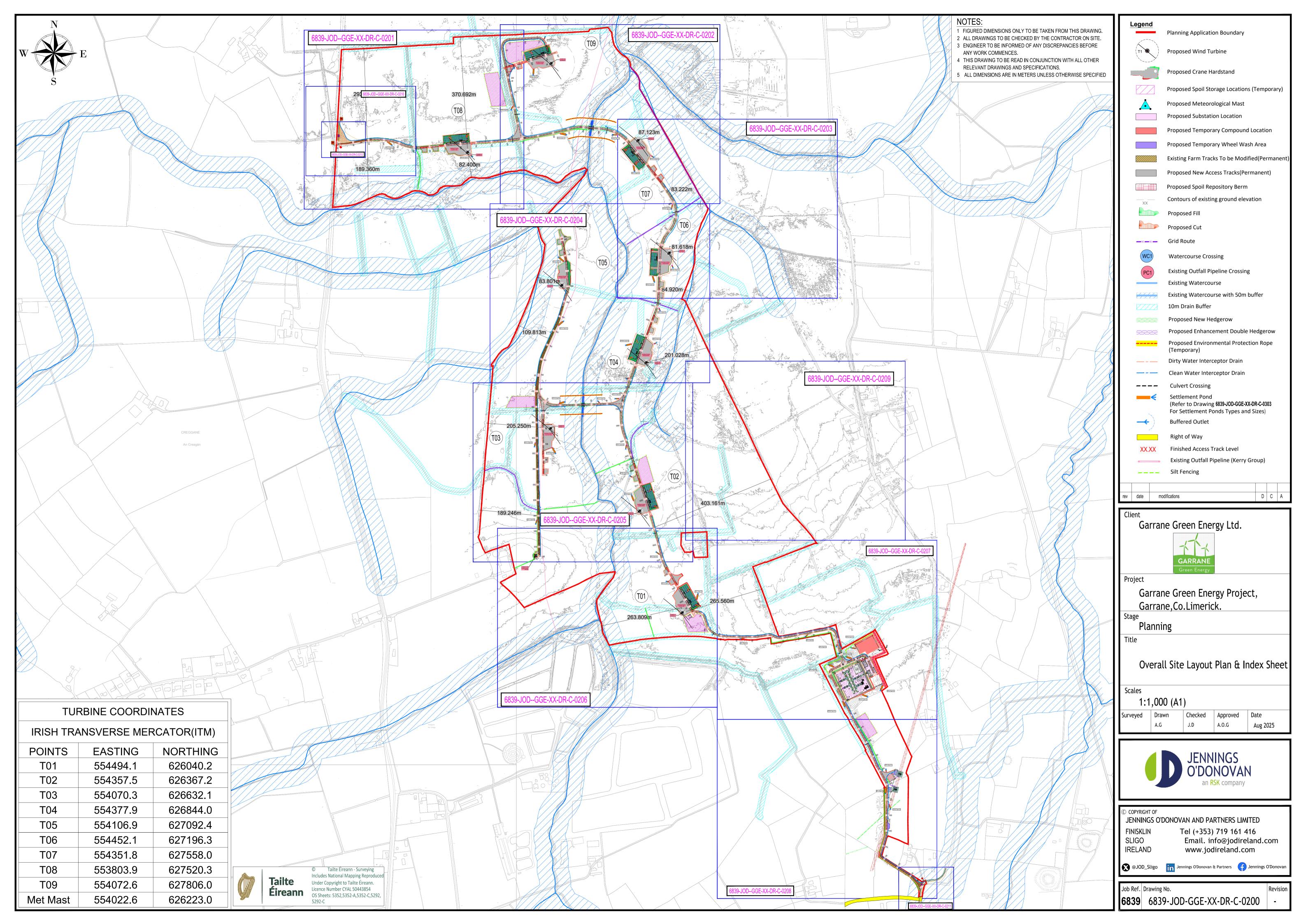
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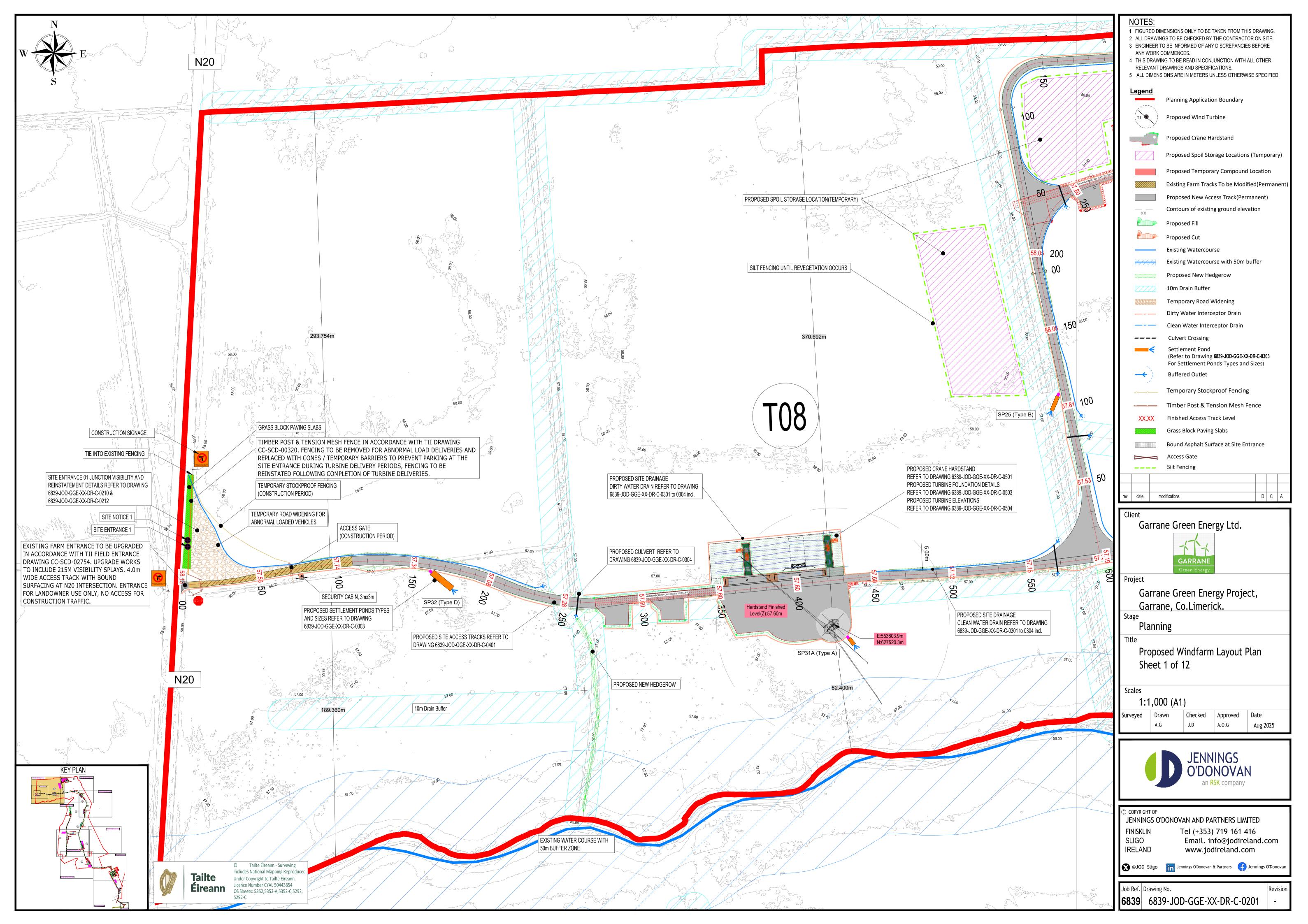
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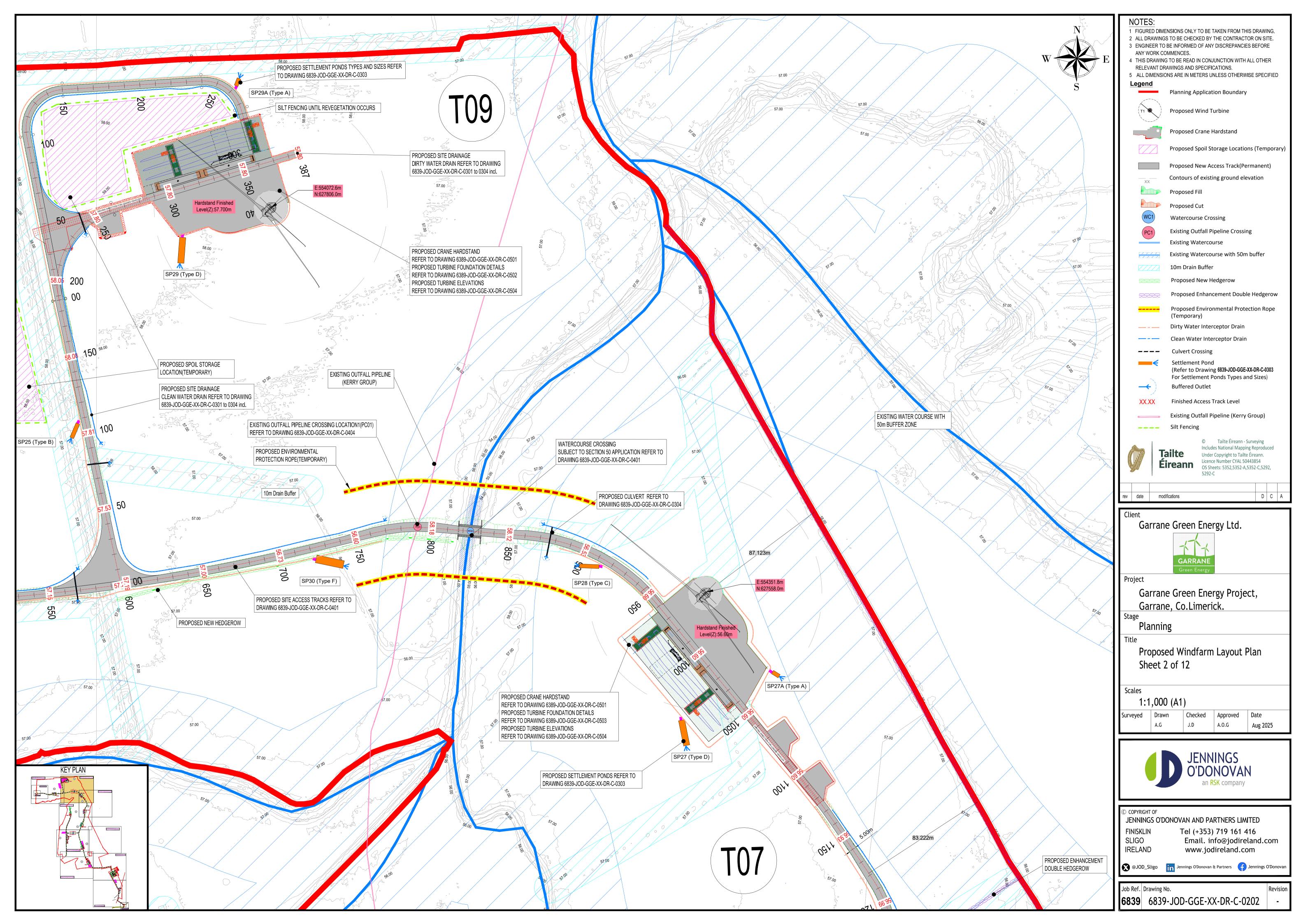


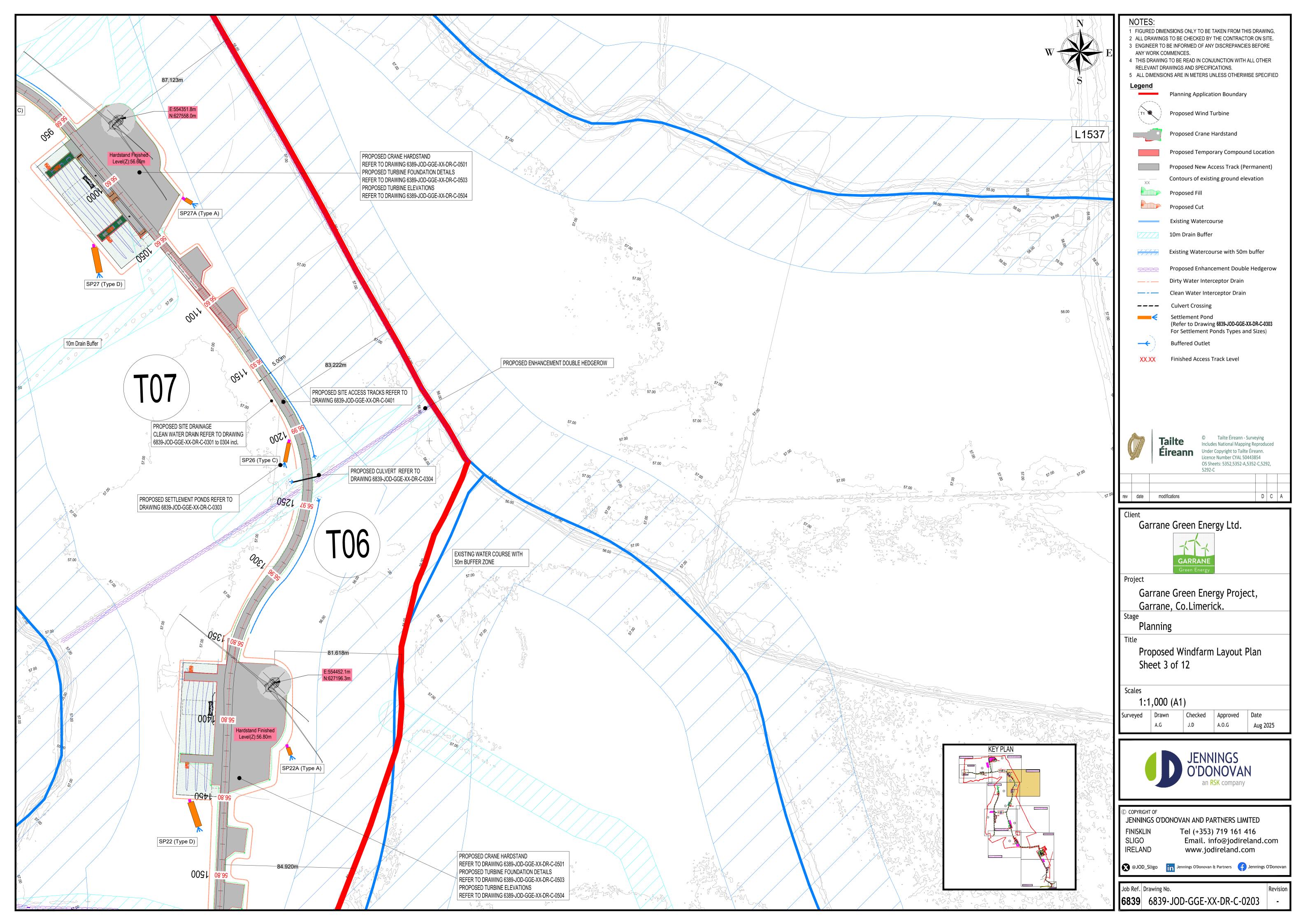


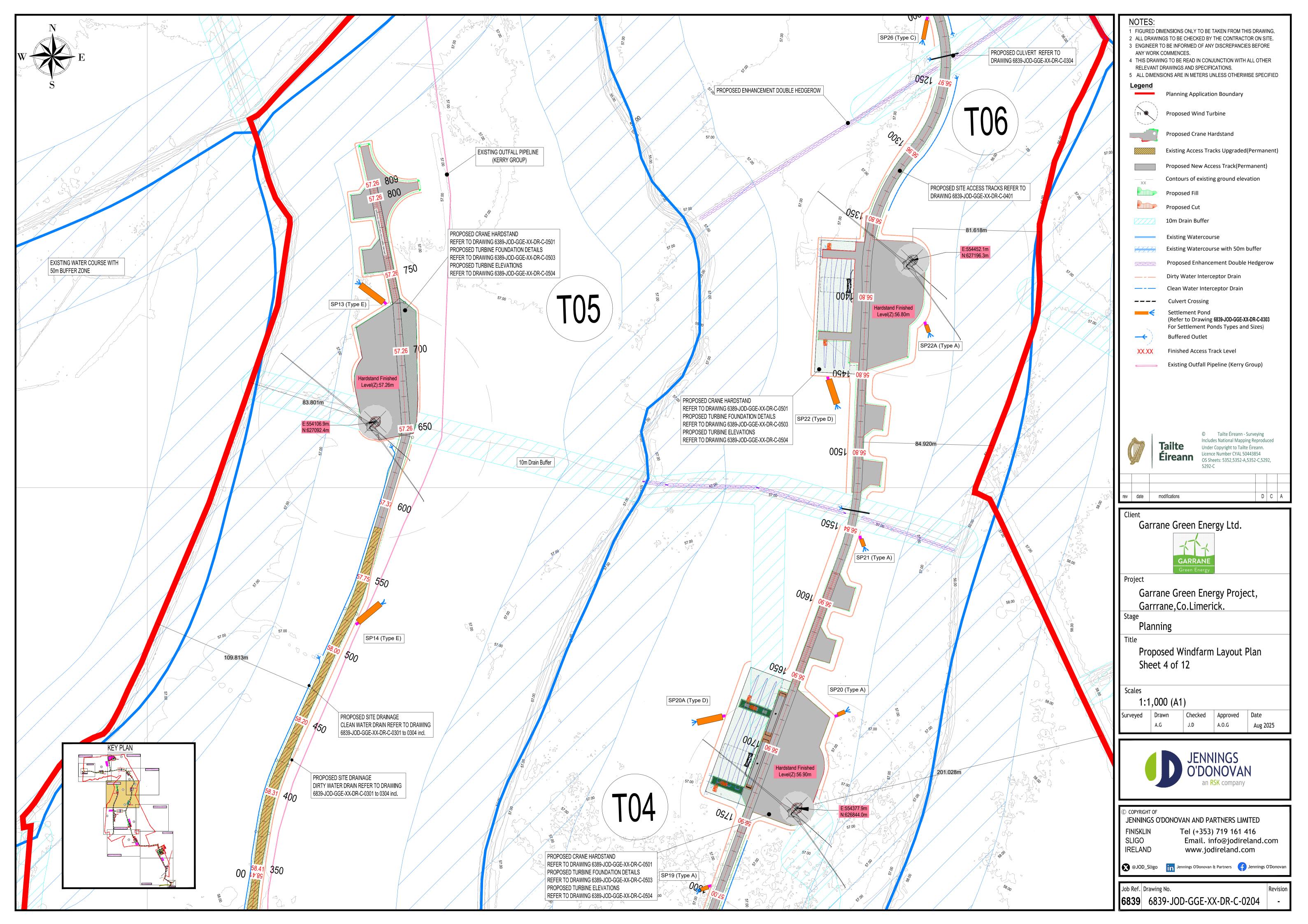


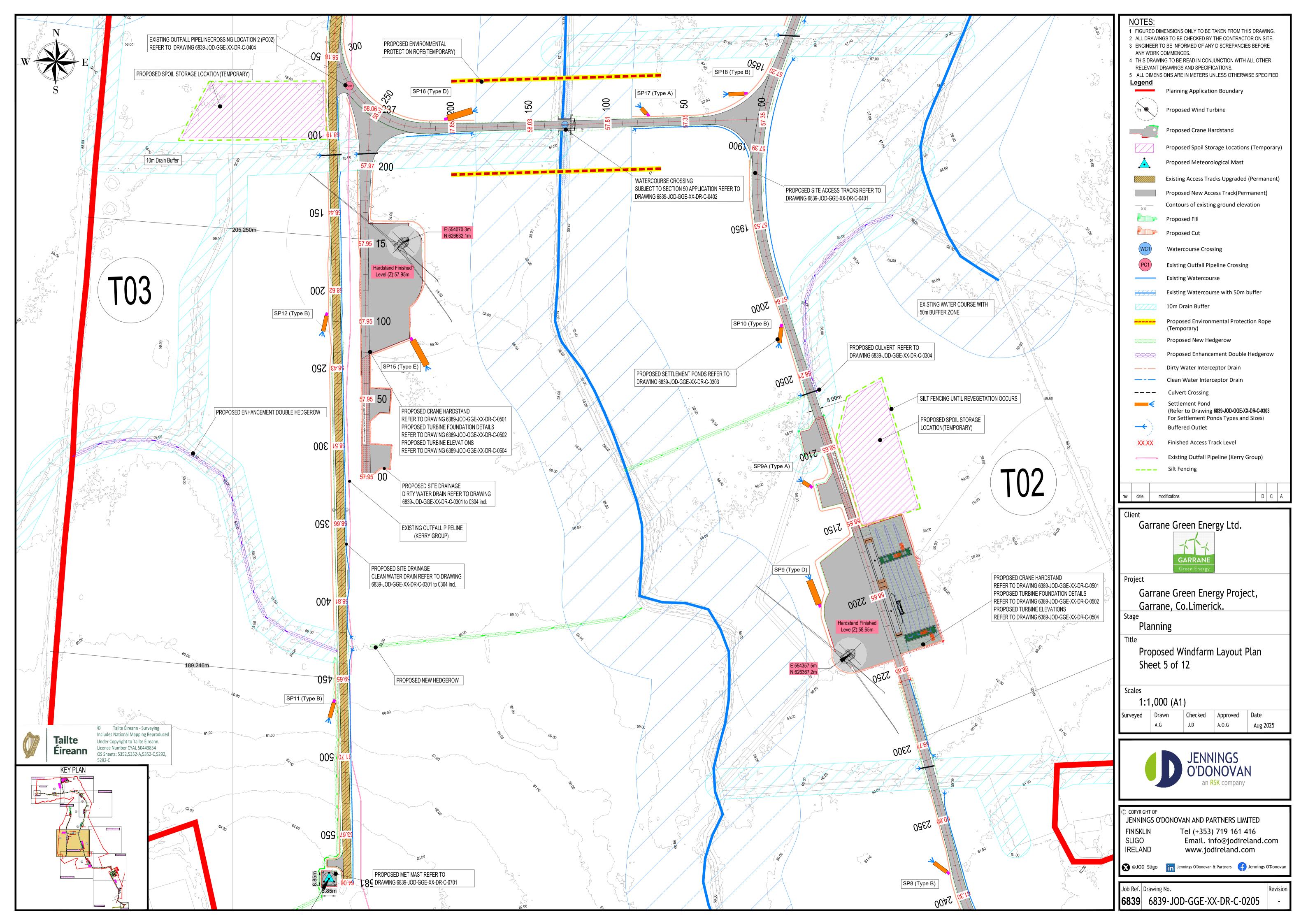


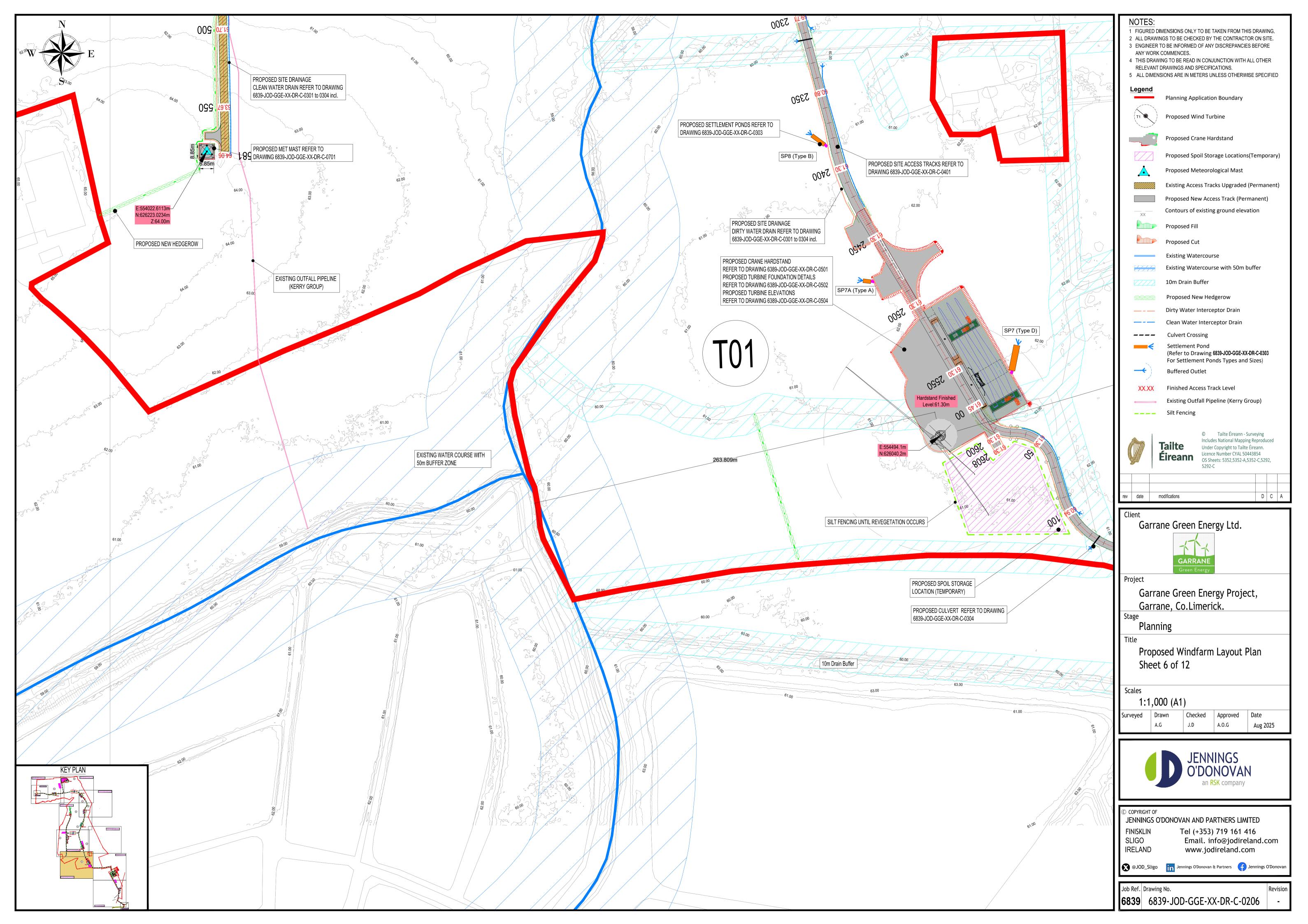


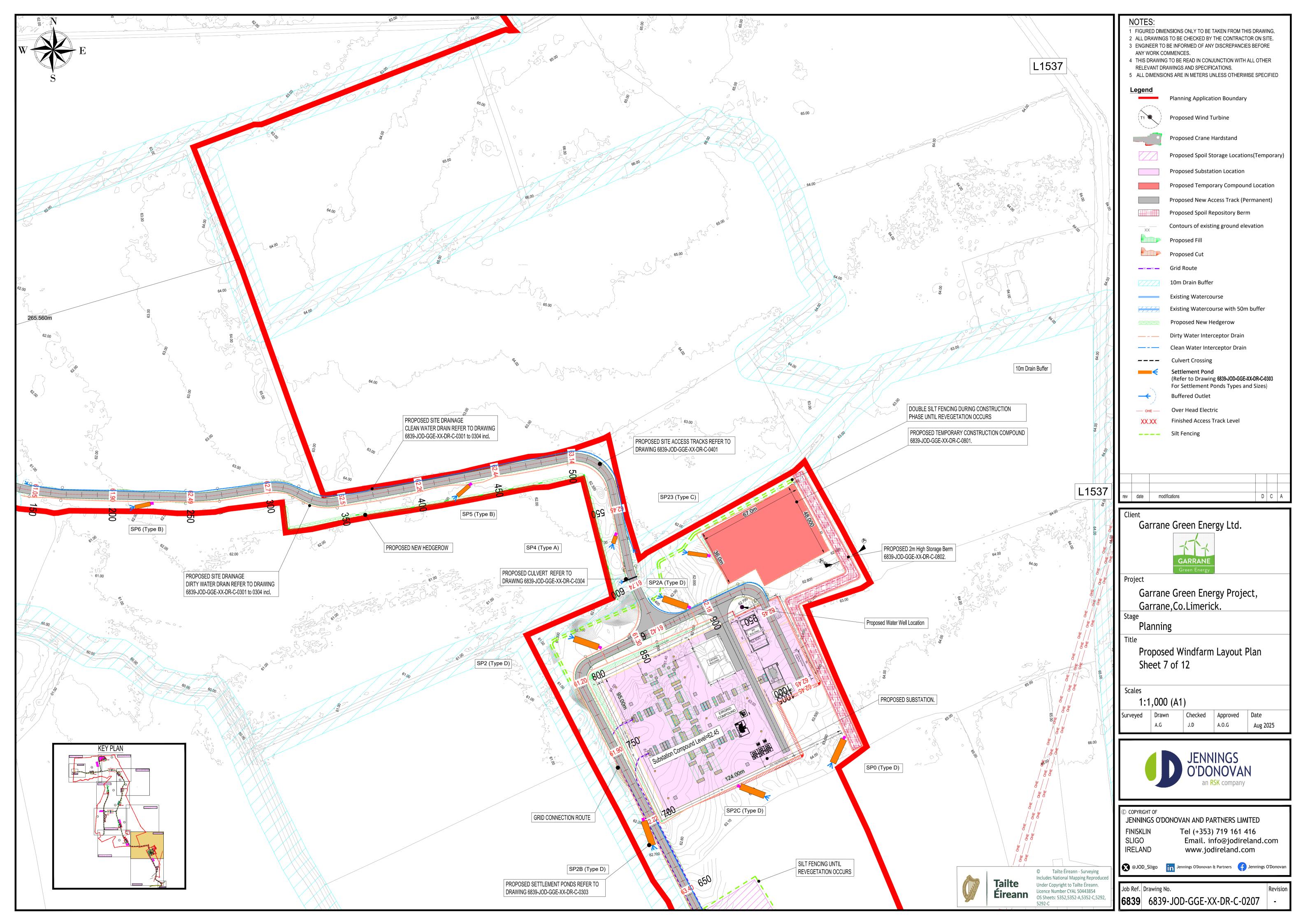


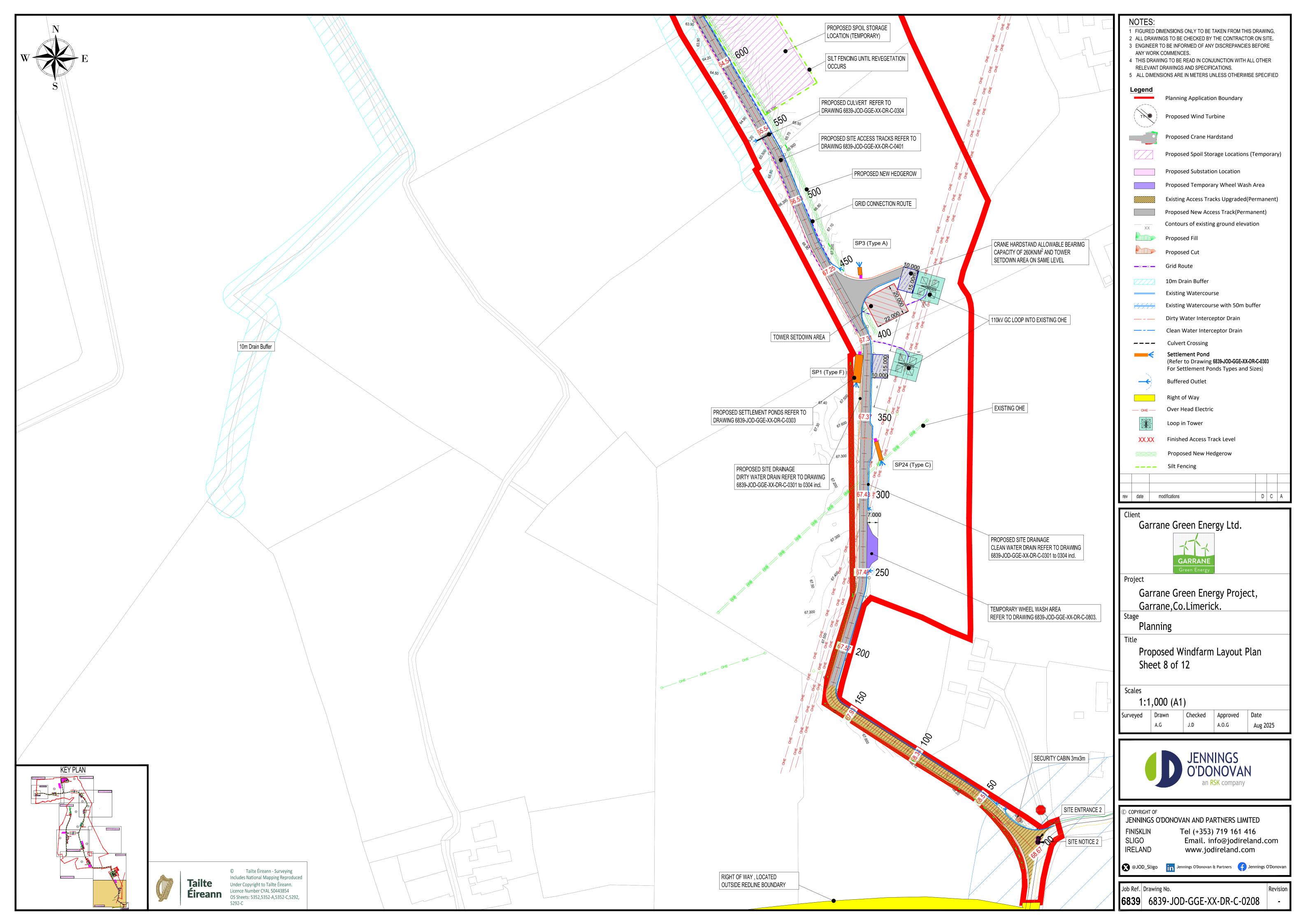


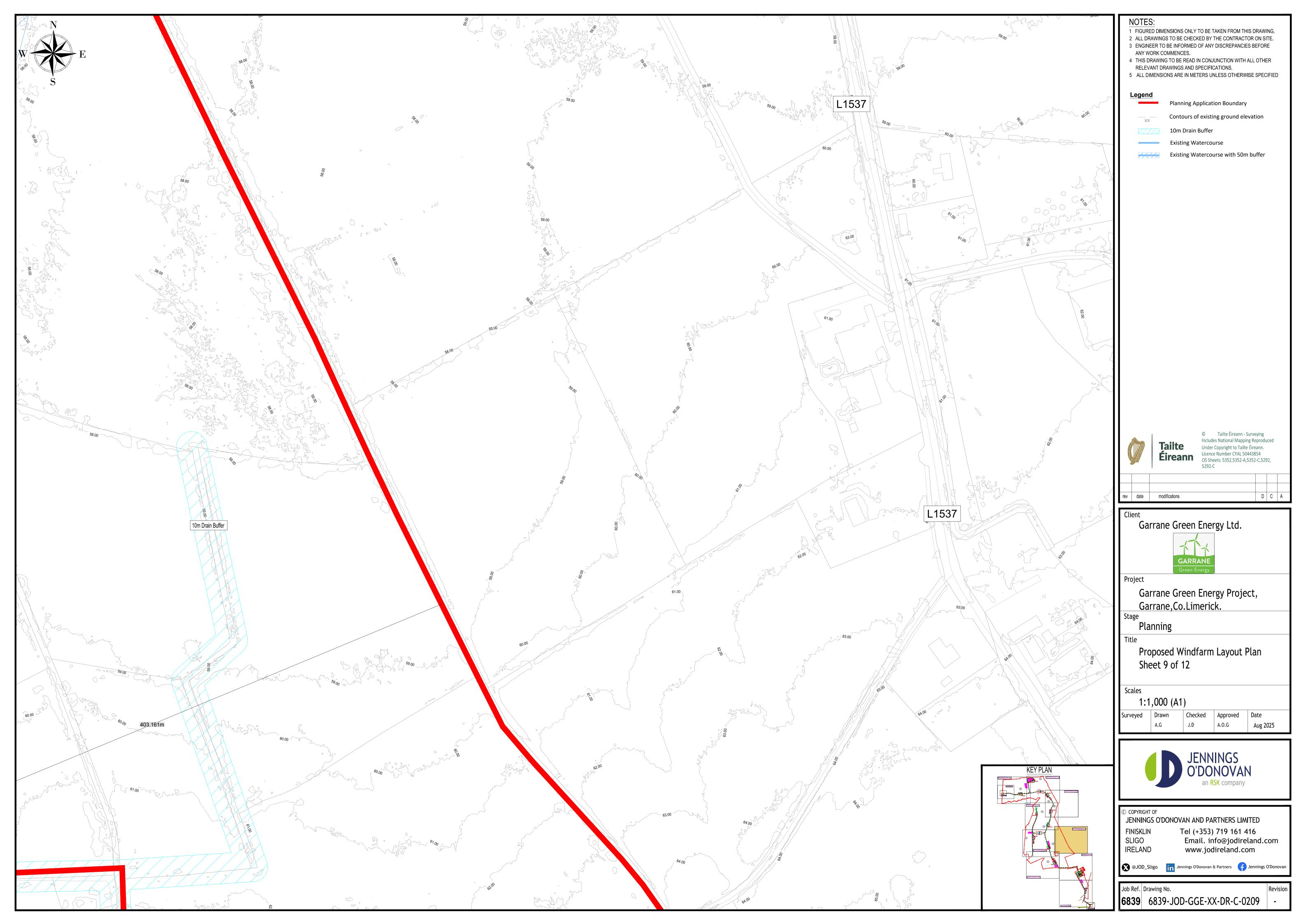


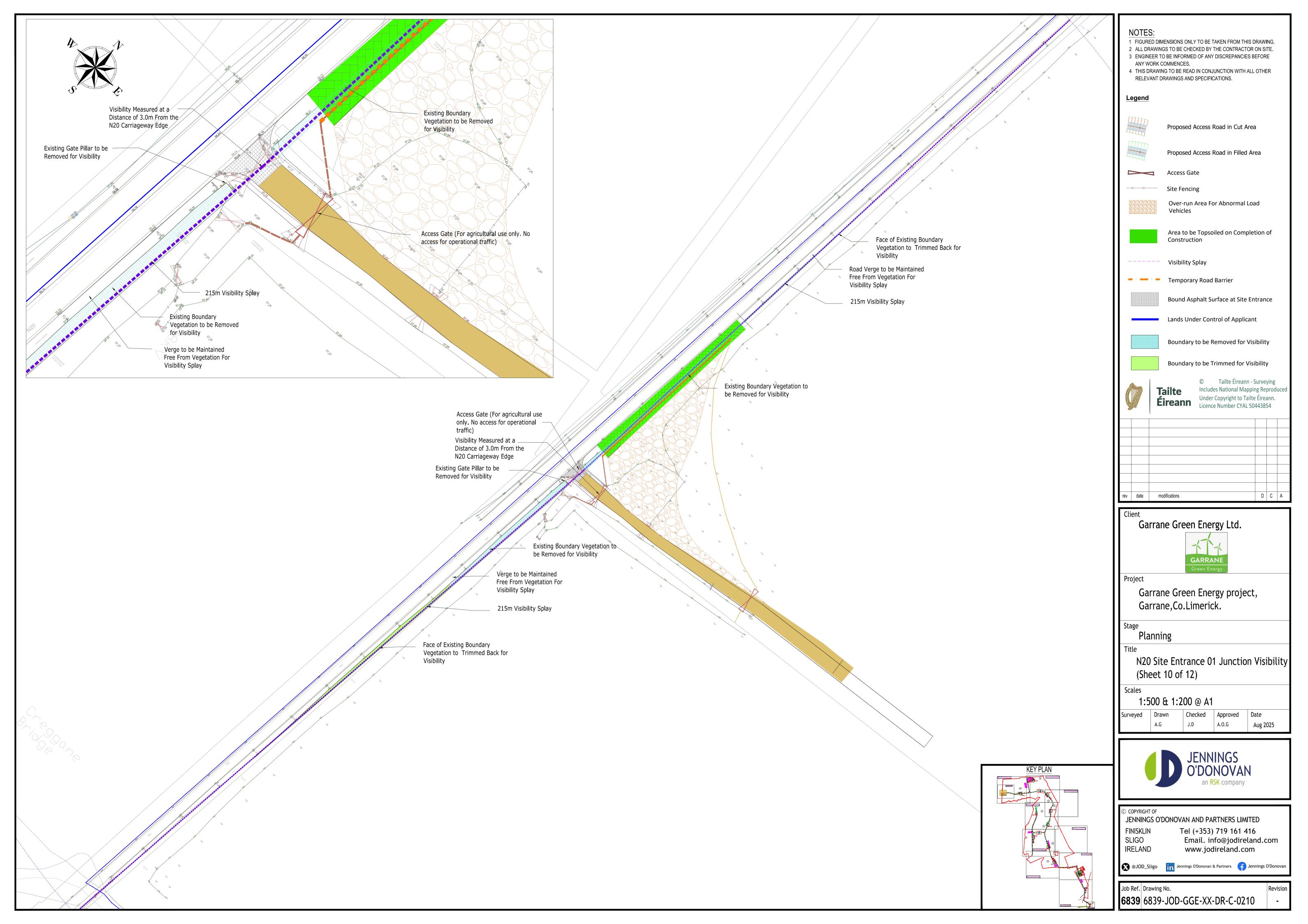


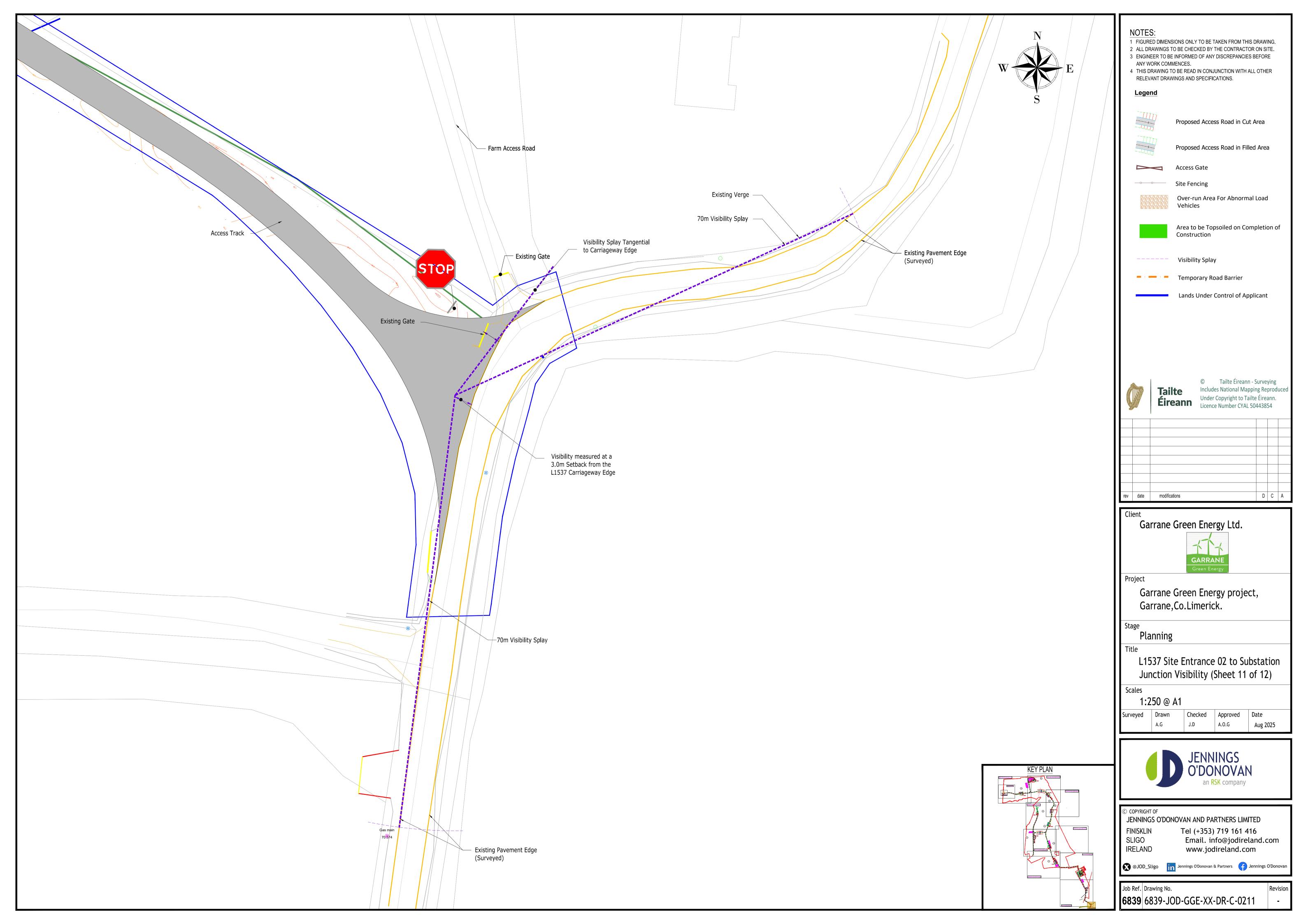


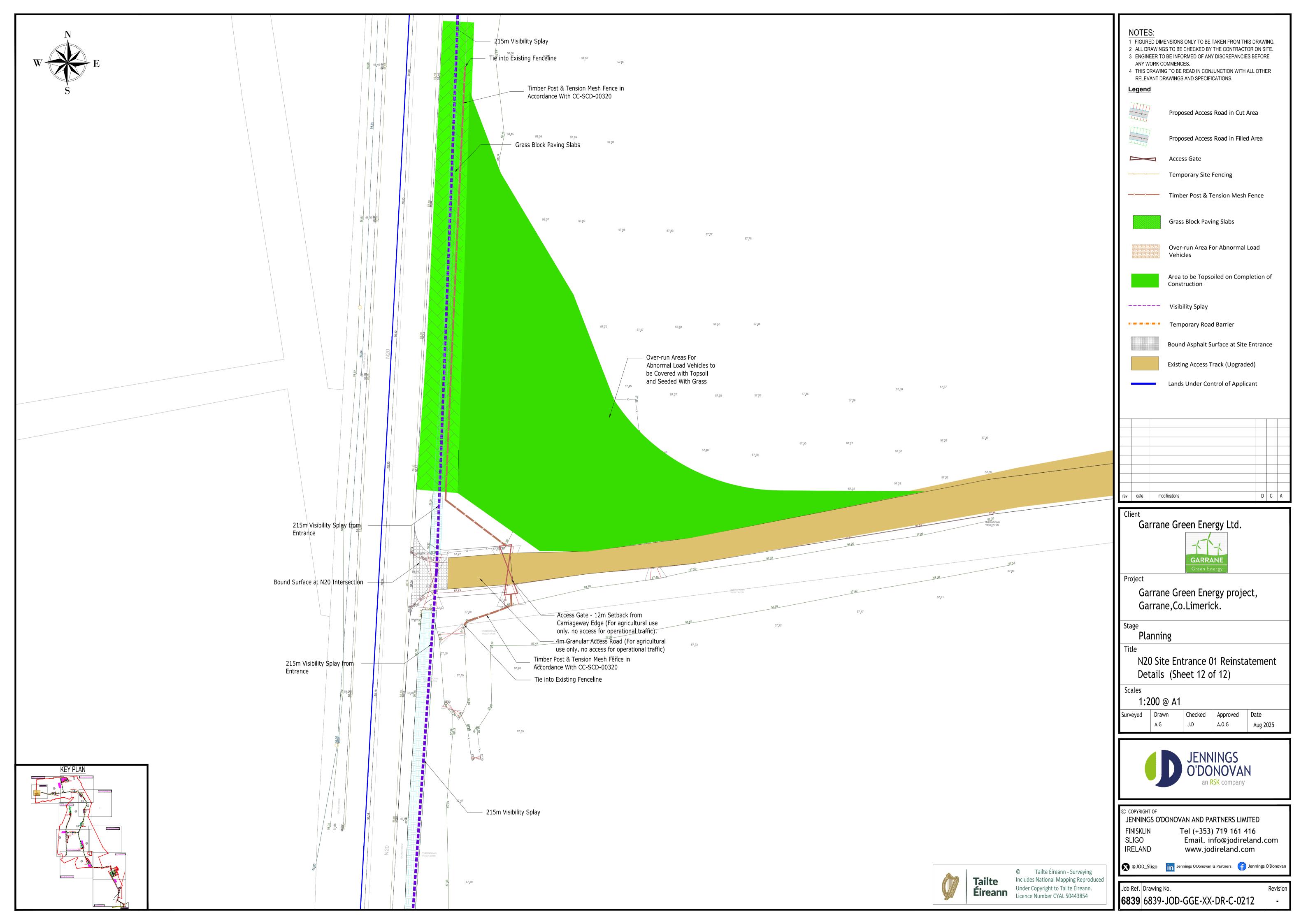


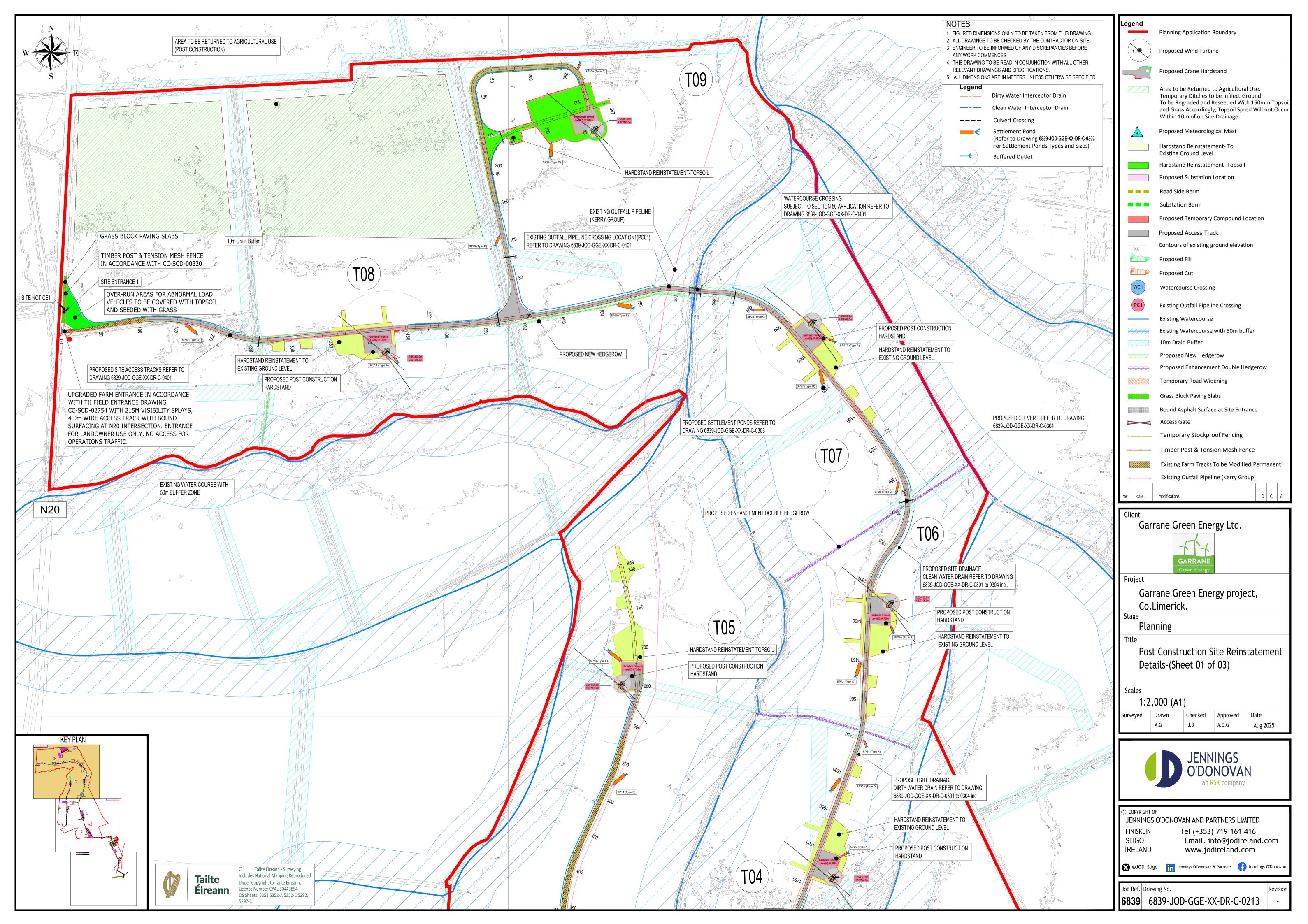


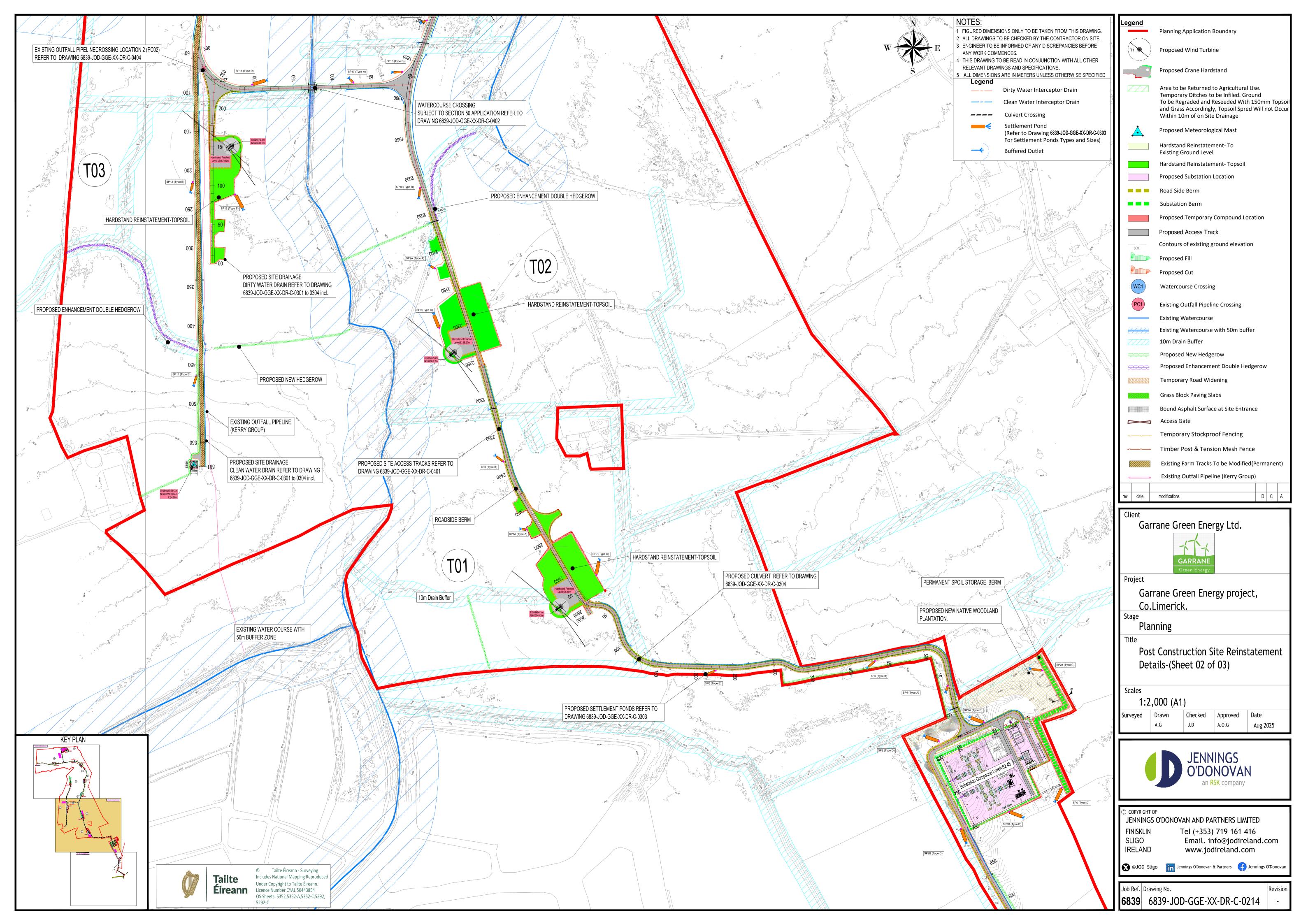


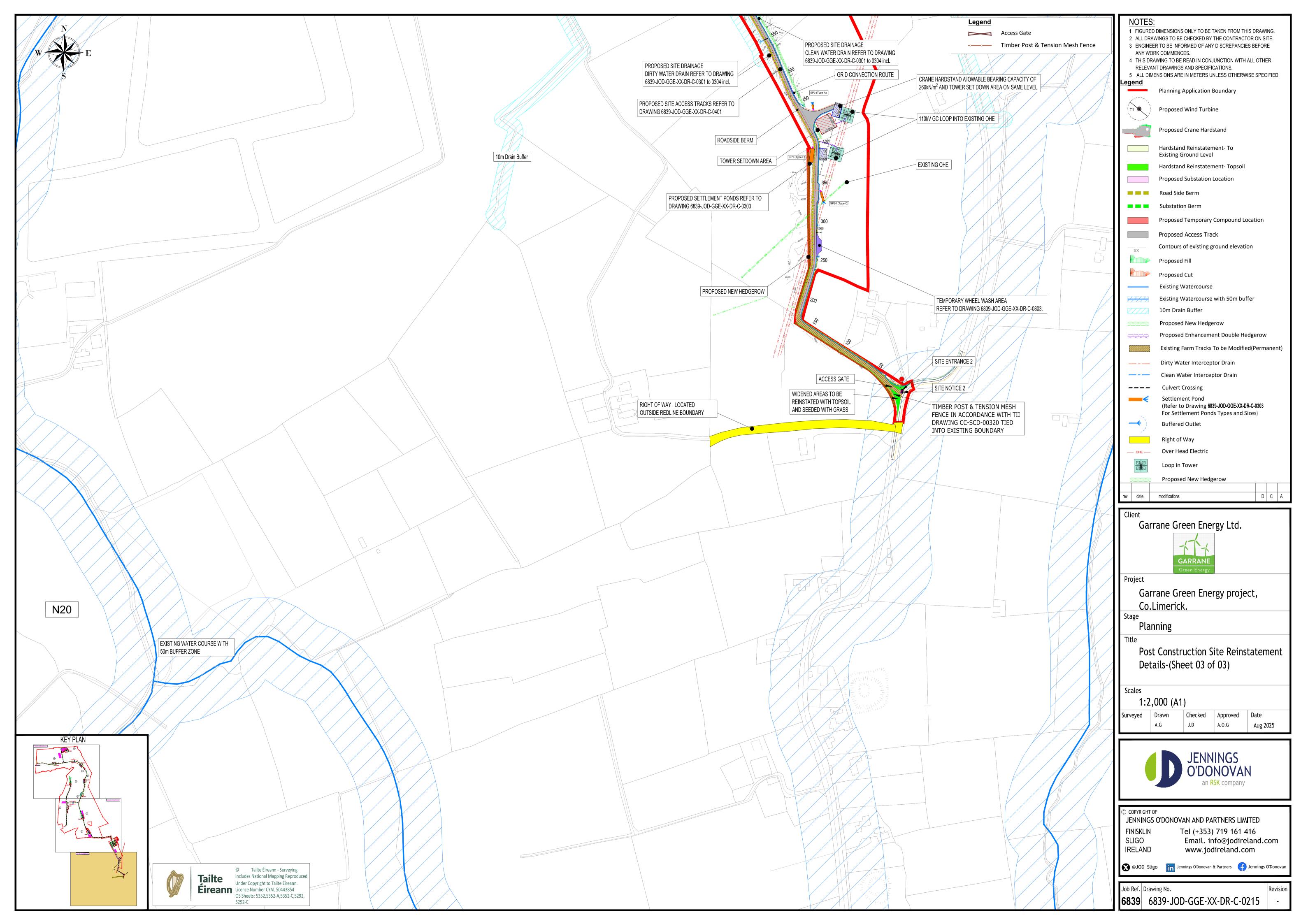


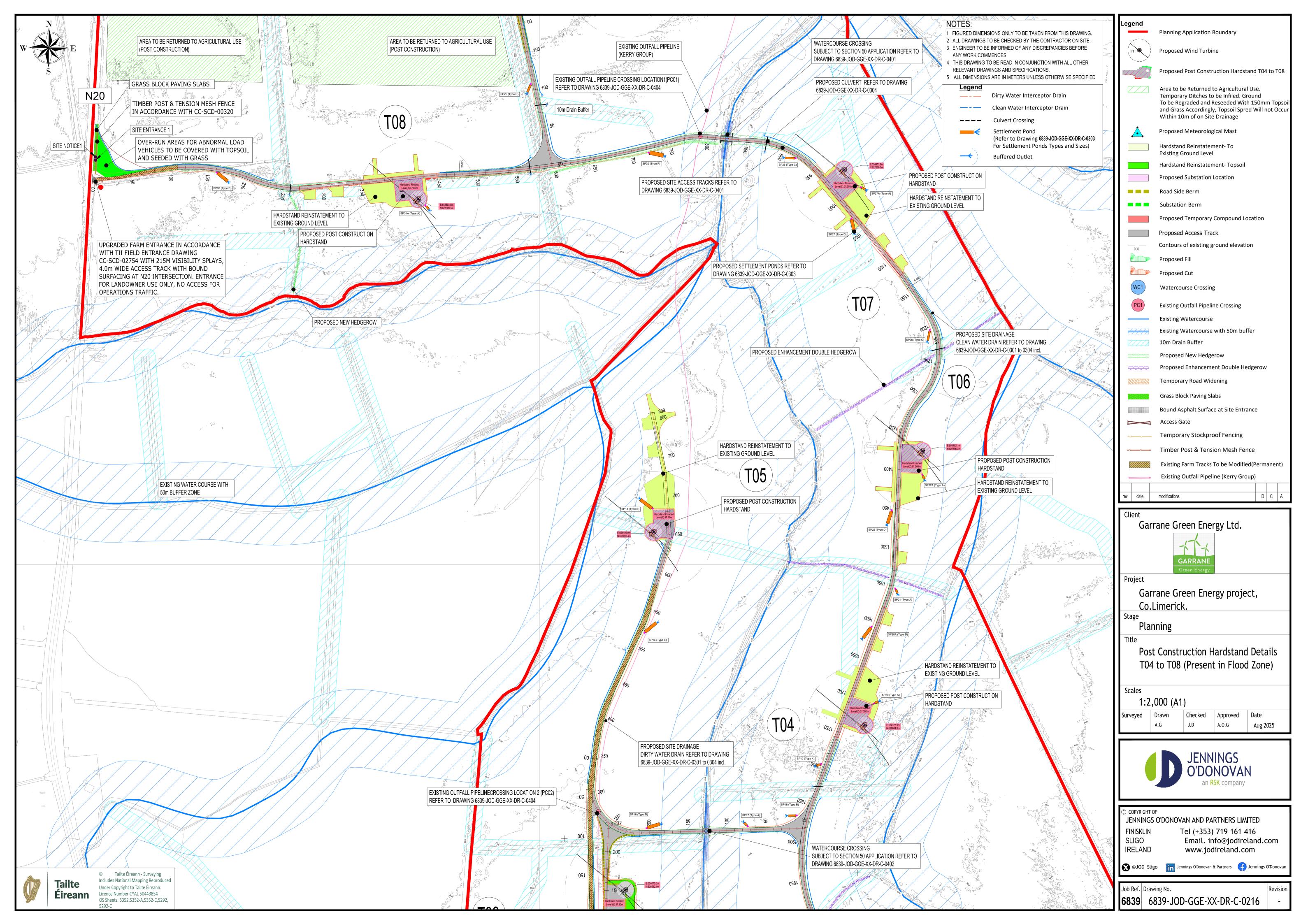


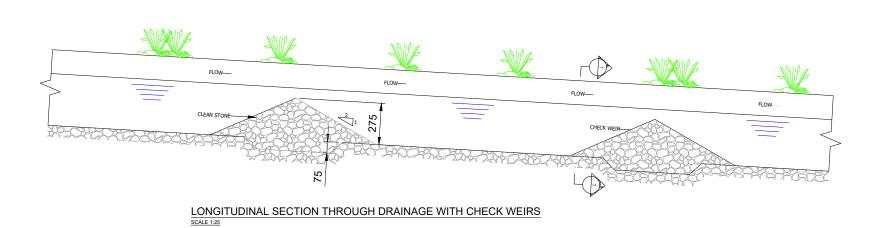


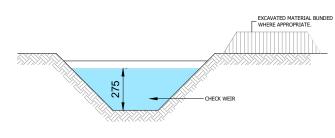






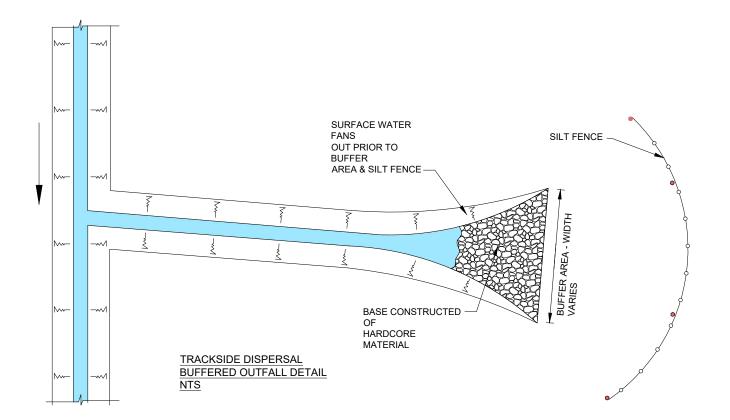






SECTION 1-1

SCALE 1:25



DRAINAGE NOTES

GENERAL:
DRAINAGE BUFFER ZONE WIDTHS SHALL BE A MINIMUM OF 50m.

2. CONSTRUCTION AND MAINTENANCE

ROADSIDE DRAIN SHOULD NOT INTERCEPT LARGE VOLUMES OF WATER FROM THE GROUND ABOVE.

ROADSIDE DRAINS LIKELY TO CARRY HIGH SEDIMENT LOADS AND MUST DISCHARGE INTO A BUFFER OF ADEQUATE WIDTH.

DRAINS ON THE UPPER SIDE OF THE ROAD MAY NEED CULVERTS TO THE LOWER SIDE.

PROPER MAINTENANCE PROVISIONS MUST BE PUT IN PLACE SO AS TO ENSURE THE PROPER FUNCTIONING OF THE DRAINAGE SYSTEM MOLUDING REGULAR INSPECTIONS, CLEANING AND REPAIRS WHERE RECESSARY.

3. DRAINS

ALL BE

CONVEYED THROUGH A BUFFERED OUTFALL WITHIN AN

UNDISTURED STABILISED AREA AT NON-EROSIVE VELOCITIES.

ALL OBSTRUCTIONS WITHIN A DRAINAGE CHANNEL SHALL BE

REMOVED AND DISPOSED OF, SO AS NOT TO INTERFERE WITH THE

PROPER FUNCTION OF THE DRAINAGE SYSTEM.

CHECK DAMS SHALL BE CONSTRUCTED USING WELL GRADED

150mm DOWN ANGULAR GRAVEL PLACED OVER A GEO-TEXTILE

LAYER, SEE DETAIL I.

THE SPACING OF CHECK DAMS SHALL BE SUCH THAT THE PEAK OF

THE DOWNSTREAM DAM IS NO LOWER THAN THE FOOT OF THE

UNTERFECT OF TRAW BALES WITHIN THE DRAINAGE SYSTEM

SHOULD BE CONSIDERED ON A TEMPORARY BASIS DURING

CONSTRUCTION AND MAINTENANCE WORK.

STRAW BALES SHOULD HOWEVER, ONLY BE USED TO INTERCEPT

SEDIMENT-LADEN RUNOFF FROM ALL DRAINAGE AREAS OF

DISTURBED SOIL.

BALES SHOULD BE ANCHORED IN PLACE BY THE USE OF TIMBER

STAKES OR RE-BARS DRIVEN THROUGHT HER BALF WAREPED FALE

SEDIMENT-LADERN KUNDET FROM ALL DRAININGS AREAS OF TIMBER DISTURBED SHOULD BE ANCHOPED IN PLACE BY THE USE OF TIMBER SHAVES OF THE ASSESSMENT OF THE ASSESSM

OUTFALLS:

ALL DRAINAGE CHANNELS SHALL FANTAPER OUT BEFORE ENTERING THE BUFFER ZONE. PRIOR TO ENTERING THE TAPERED ZONE. THE BASE OF THE DRAINAGE CHANNELS TO BE CONSTRUCTED OF A HARDCORE MATERIAL TO AID THE SETTLEMENT OF SUSPENDED SOLIDS.

NON-DEVELOPMENT RUN-OFF SHALL BE RETURNED TO A SURFACE FLOW CONDITION E.S. BY USE OF LEVEL SPREADERS.

CONDITIONES, BY USE OF LEVEL SPREADLY.

5. STILLING PONDS.

- ANY SEDIMENT TRAPS/STILLING PONDS SHALL BE LOCATED OUTSIDE OF BUFFER ZONES AND HAVE NO DIRECT OUTFLOW INTO WATERCOURSES.

- STILLING PONDS SHOULD BE SIZED TO ACCOMMODATE PEAK FLOWS CORRESPONDING TO A 1 IN 100 YEAR STORM EVENT FOR THEIR RESPECTIVE CATCHMENT AREAS.

- MAINTENANCE WORKS INCLUDING THE REMOVAL OF SETTLED MATERIALS SHOULD BE TAKEN WILD IN THE DEPONDE ARE NOT OVER DEEPENED.

IN THE DESIGN OF STILLING PONDS, CONSIDERATION SHOULD BE GIVEN TO IMPLEMENTING MEASURES SUCH THAT THERE IS NO POSSIBLITY TO DIRECT FLOW THROUGH THE POND G. OFFSET INLETS AND OUTLETS FROM THE CENTRE AXIS ETC.

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rev. date

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Planning

Drainage Details Sheet 1 of 4

Scales

1:25 (A3)

rveyed Prepared Checked Approved Date A.G J.D



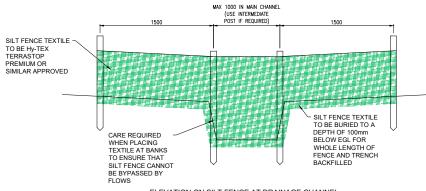
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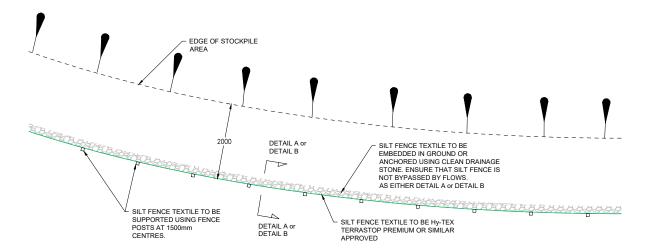




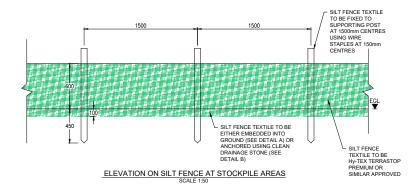
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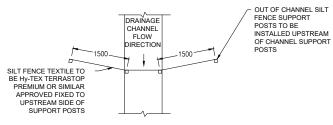


ELEVATION ON SILT FENCE AT DRAINAGE CHANNEL SCALE 1:50

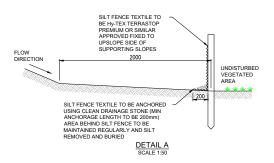


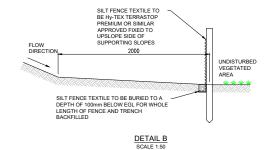
PLAN ON SILT FENCE AT STOCKPILE AREAS SCALE 1:100





PLAN ON SILT FENCE AT DRAINAGE CHANNEL SCALE 1:100





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Planning

Drainage Details Sheet 2 of 4

Scales

As Noted @ (A3)

Date Prepared Checked Approved A.G J.D A.O.G



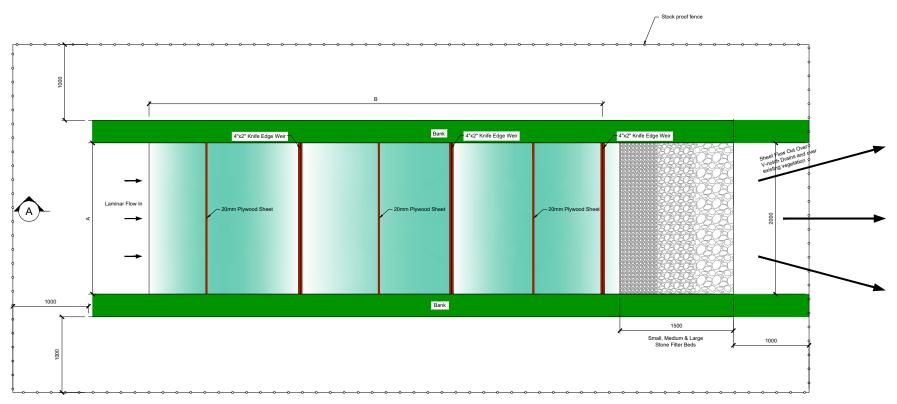
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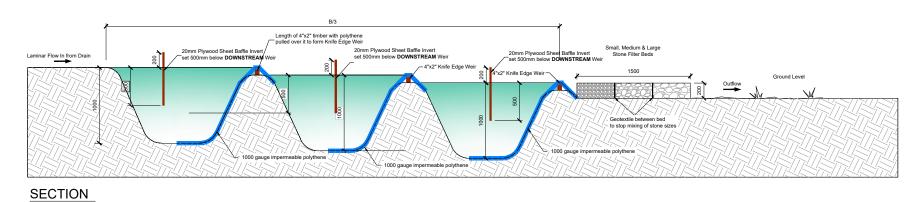
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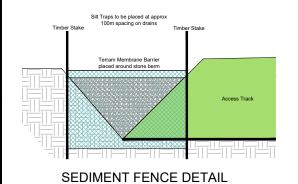


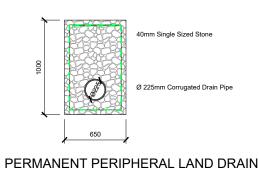
PLAN VIEW OF SETTLEMENT PONDS (WITH DISCHARGE TO DRAINS WHERE APPLICABLE)

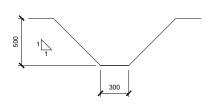


Pond Types W(m) D (m) Type A 2.5 10 Type B 13 2.5 Type C 17 Type D 19 4 Type E 18 Type F

Table Detailing Linked To Types of Settlement Ponds Mentioned in the Notes.







TEMPORARY "V" DITCH DRAIN PROFILE



COMPLETED SETTLEMENT POND SYSTEM



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Type	AWidth (m)	B Length (m)	Pond Typ
SP0	4	16.5	Type D
SP1	5	18	Type F
SP2	4	16.5	Type D
SP2A	4	16.5	Type D
SP2B	4	16.5	Type D
SP2C	4	16.5	Type D
SP3	2.5	5	Type A
SP4	2.5	5	Туре А
SP5	2.5	10	Type B
SP6	2.5	10	Type B
SP7	4	16.5	Type D
SP7A	2.5	5	Type A
SP8	2.5	10	Type B
SP9	4	16.5	Type D
SP9A	2.5	5	Туре А
SP10	2.5	10	Type B
SP11	2.5	10	Type B
SP12	2.5	10	Туре В
SP13	4	18.5	Type E
SP14	4	18.5	Type E
SP15	4	18.5	Type E
SP16	2.5	16.5	Type D
SP17	2.5	5	Type A
SP18	2.5	10	Type B
SP19	2.5	5	Type A
SP20A	4	16.5	Type D
SP20	2.5	5	Type A
SP21	2.5	5	Type A
SP22	4	16.5	Type D
SP22A	2.5	5	Type A
SP23	2.5	12.5	Type C
SP24	2.5	12.5	Туре С
SP25	2.5	10	Туре В
SP26	2.5	12.5	Type C
SP27	4	16.5	Type D
SP27A	2.5	5	Туре А
SP28	2.5	12.5	Type C
SP29	4	16.5	Type D
SP29A	5	18	Type F
SP30	5	18	Type F
SP31	4	16.5	Type D
SP31A	2.5	5	Туре А
SP32	2.5	16.5	Type D

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Planning

Drainage Details Sheet 3 of 4

Scales

As Noted @ (A3)

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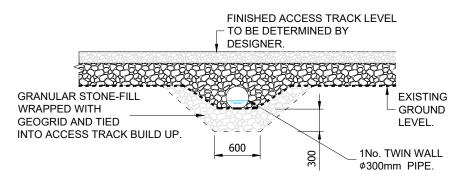


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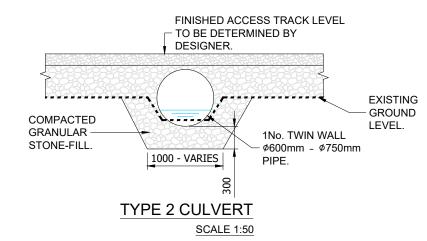


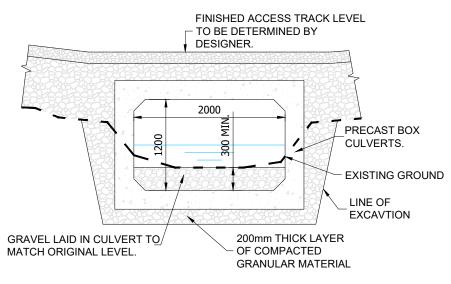
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TYPE 1 CULVERT

SCALE 1:50





TYPE 3 CULVERT **SCALE 1:50**

NOTE:

CULVERTS ARE TO BE OF ADEQUATE SIZE TO CARRY PEAK FLOWS CORRESPONDING TO A 1 IN 100 YEAR STORM EVENT, WITH A MINIMUM DIAMETER OF 900mm. THEY SHOULD BE INSTALLED TO CONFORM WHEREVER POSSIBLE TO THE NATURAL SLOPE AND ALIGNMENT OF THE STREAM OR DRAINAGE LINE. CULVERTS GREATER THAN 1m DIAMETER SHOULD BE BURIED TO A MINIMUM DEPTH OF 300mm BELOW THE STREAMBED AND THE ORIGINAL BED MATERIAL PLACED IN THE BOTTOM OF THE CULVERT.

- 1. FORMATION LEVEL TO BE DETERMINED BY THE CIVIL WORKS DESIGNER. REFER TO SITE INVESTIGATIONS REPORT.
- 2. SUB BASE MATERIAL TO CONFORM TO THE FOLLOWING:

IMPORTED MATERIAL

TO CONFORM TO TYPE 6F1 IN ACCORDANCE WITH TABLE 6/2 OF THE NRA SPECIFICATION FOR ACCESS TRACK WORKS.

SITE WON MATERIAL

ROCK WON IN EXCAVATION OF TURBINES MUST BE CRUSHED AND GRADED ON SITE. THE MAXIMUM SIZE OF AGGREGATE TO BE 125mm. THE AGGREGATE GRADING TO BE AGREED WITH THE ENGINEER.

3. SURFACE LAYER TO BE CLAUSE 804. THIS LAYER MAY BE APPLIED IMMEDIATELY BEFORE TURBINE DELIVERY.

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Planning

Drainage Details Sheet 4 of 4

Scales

1:50 (A3)

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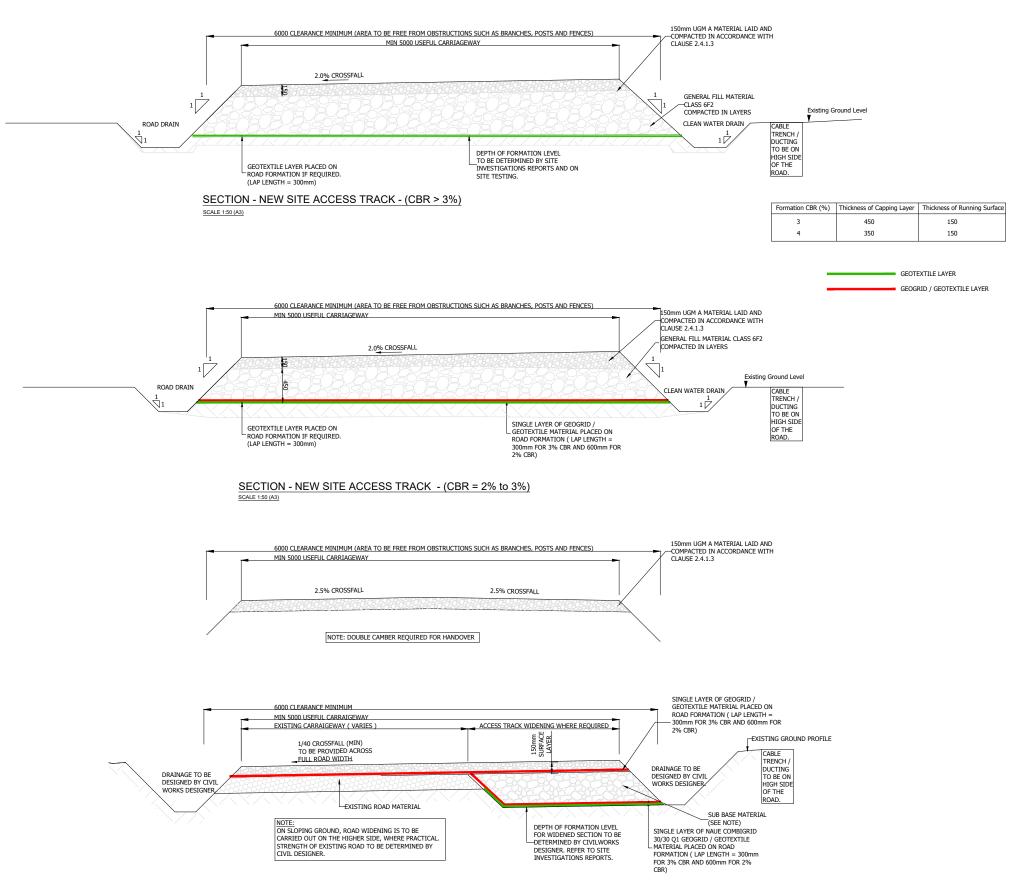
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6839 | 6839-JOD-GGE-XX-DR-C-0304



ACCESS TRACK WIDENING ON EXISTING SITE ACCESS TRACKS WHERE REQUIRED CONSTRUCTION PHASE

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Planning

Access Track Construction Details

1:50 @ A3

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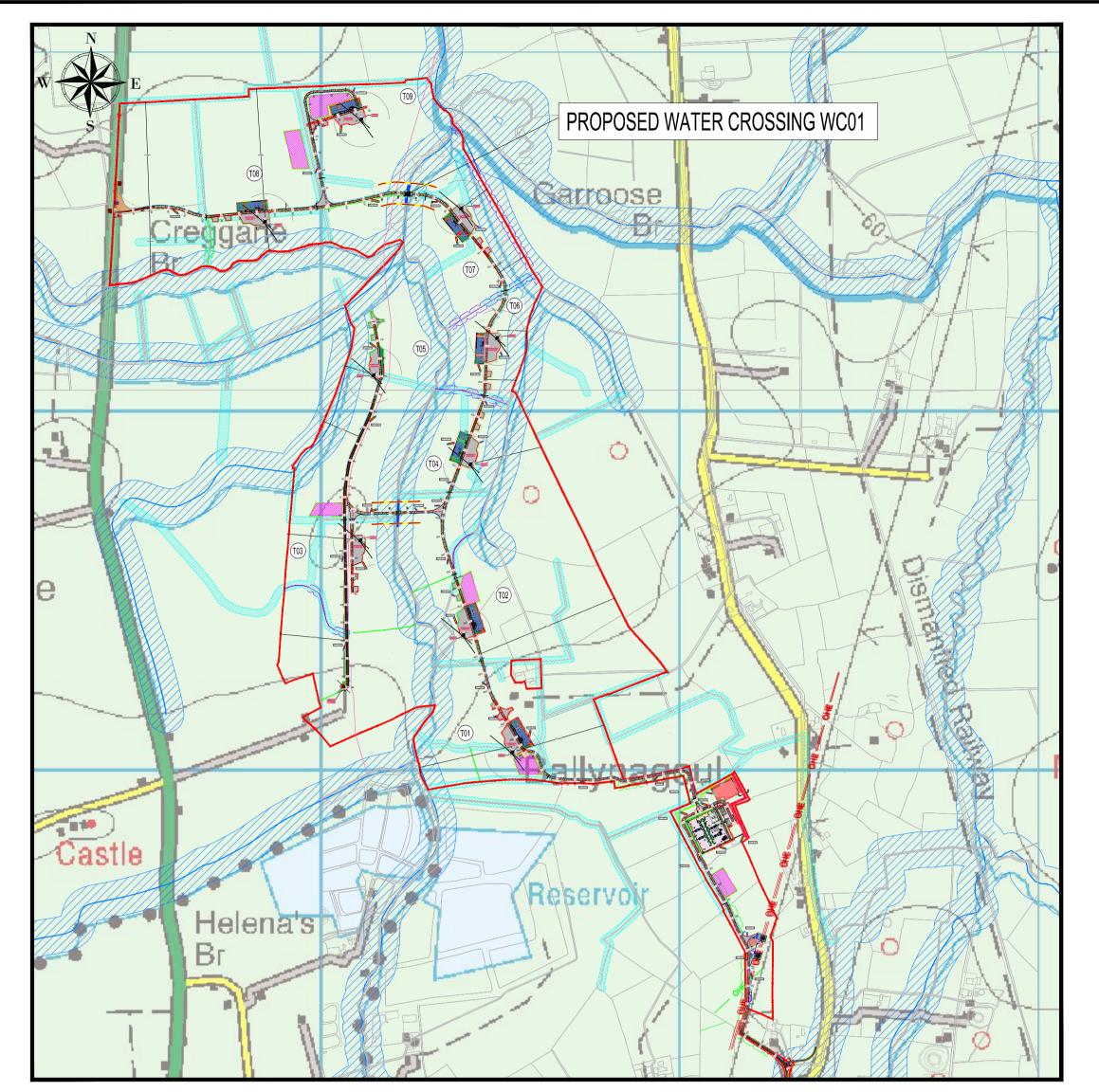


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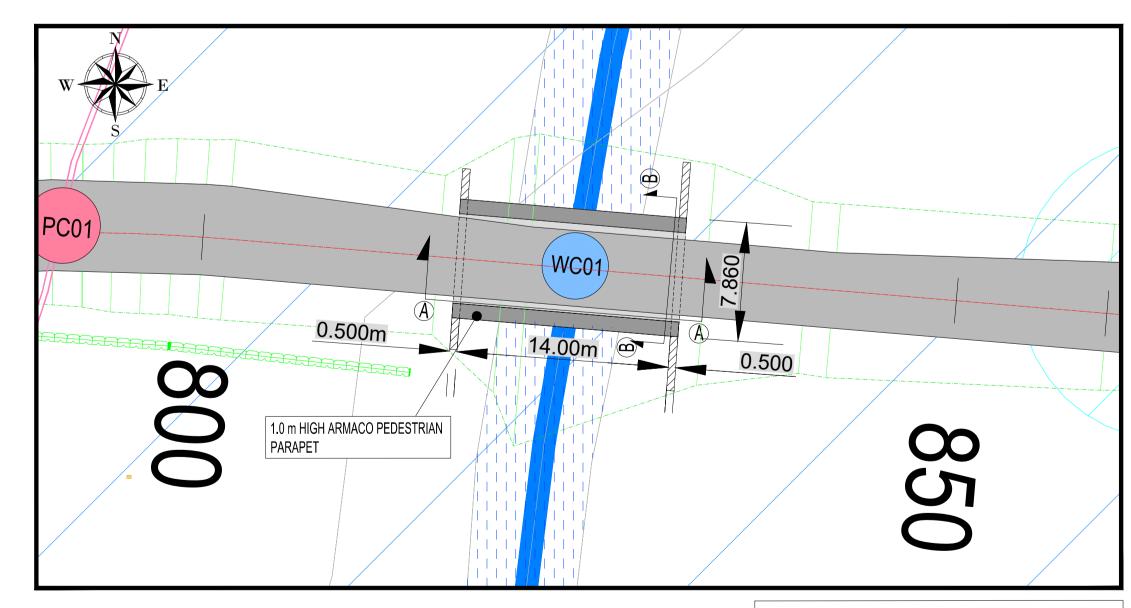
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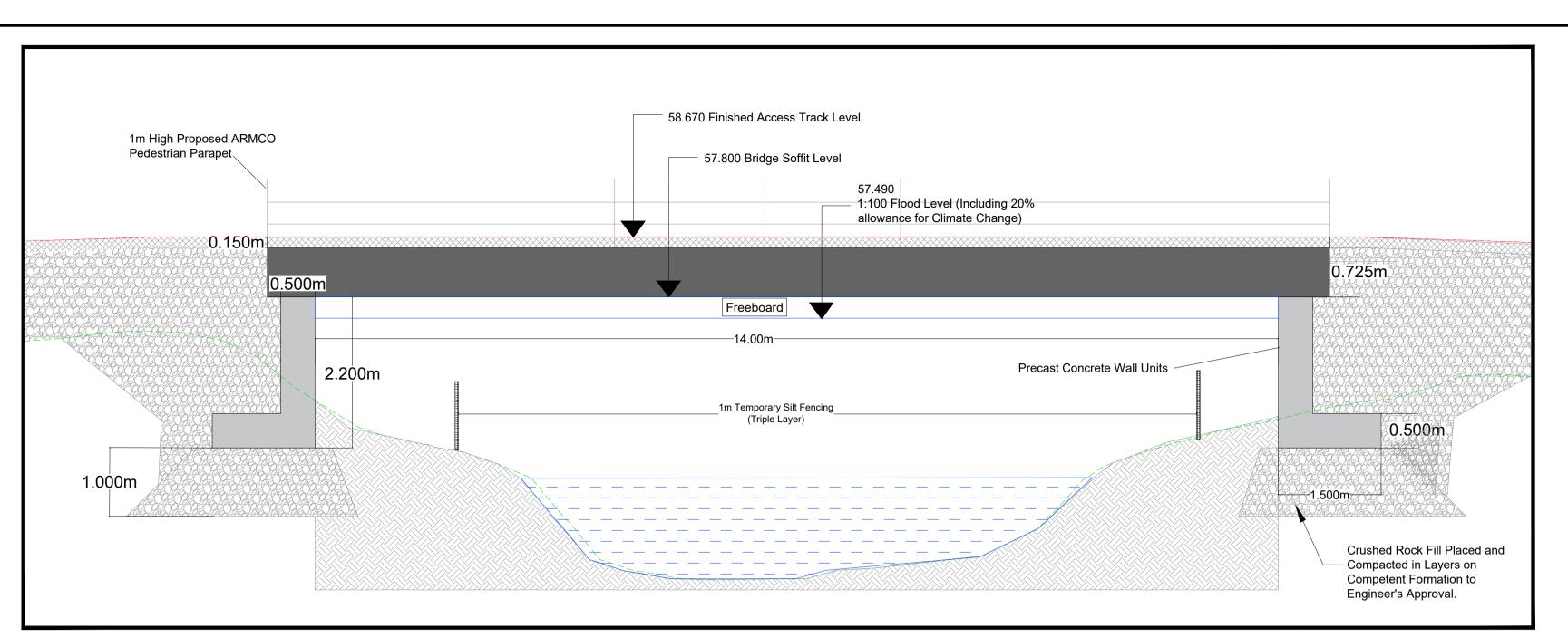
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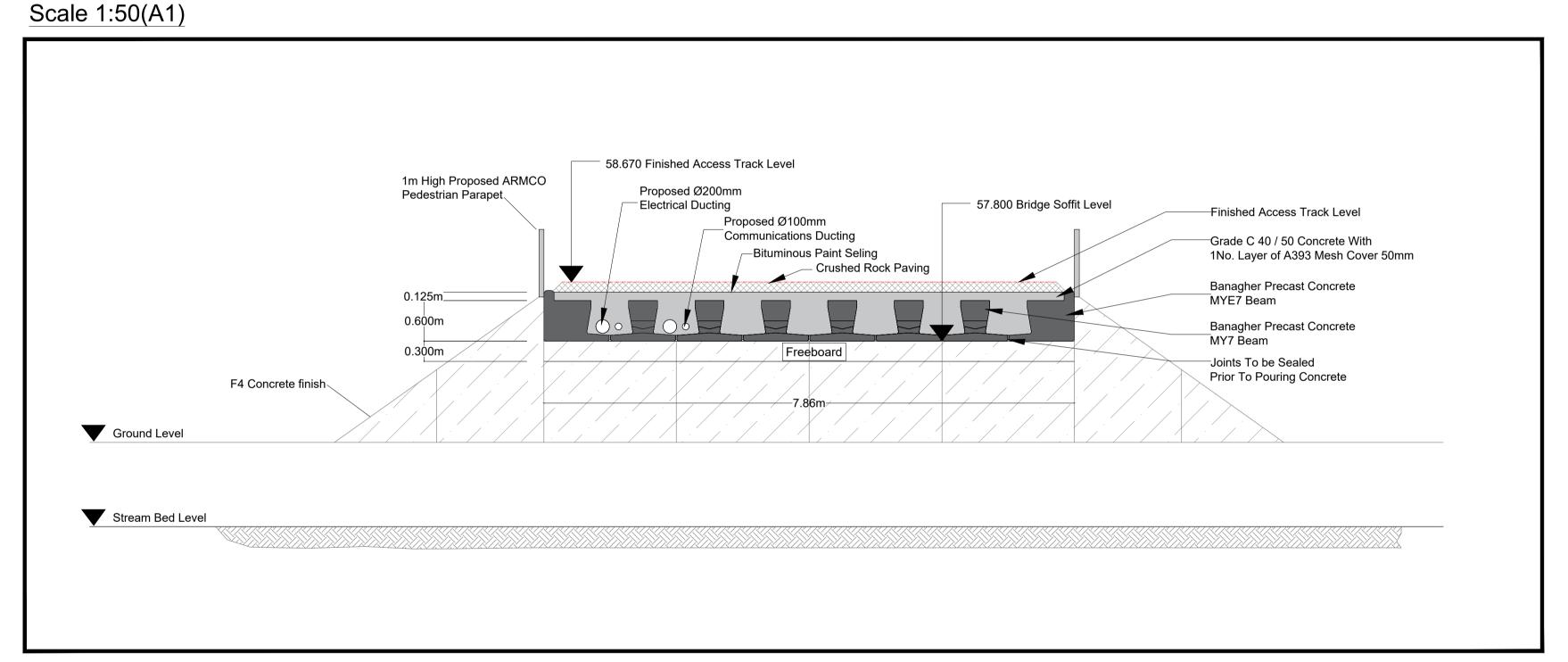
Site Layout Plan Scale 1:250(A1)



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Section A-A Through Proposed Watercourse Crossing WC01



Section B-B Through Proposed Watercourse Crossing WC01

Scale 1:50(A1)





BANAGHER PRECAST CONCRETE MY7 BEAM BANAGHER PRECAST CONCRETE MYE7 BEAM INSITU CONCRETE SLAB FINISHED ACCESS TRACK LEVEL EXISTING GROUND LEVEL



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ANY WORK COMMENCES. 4 THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

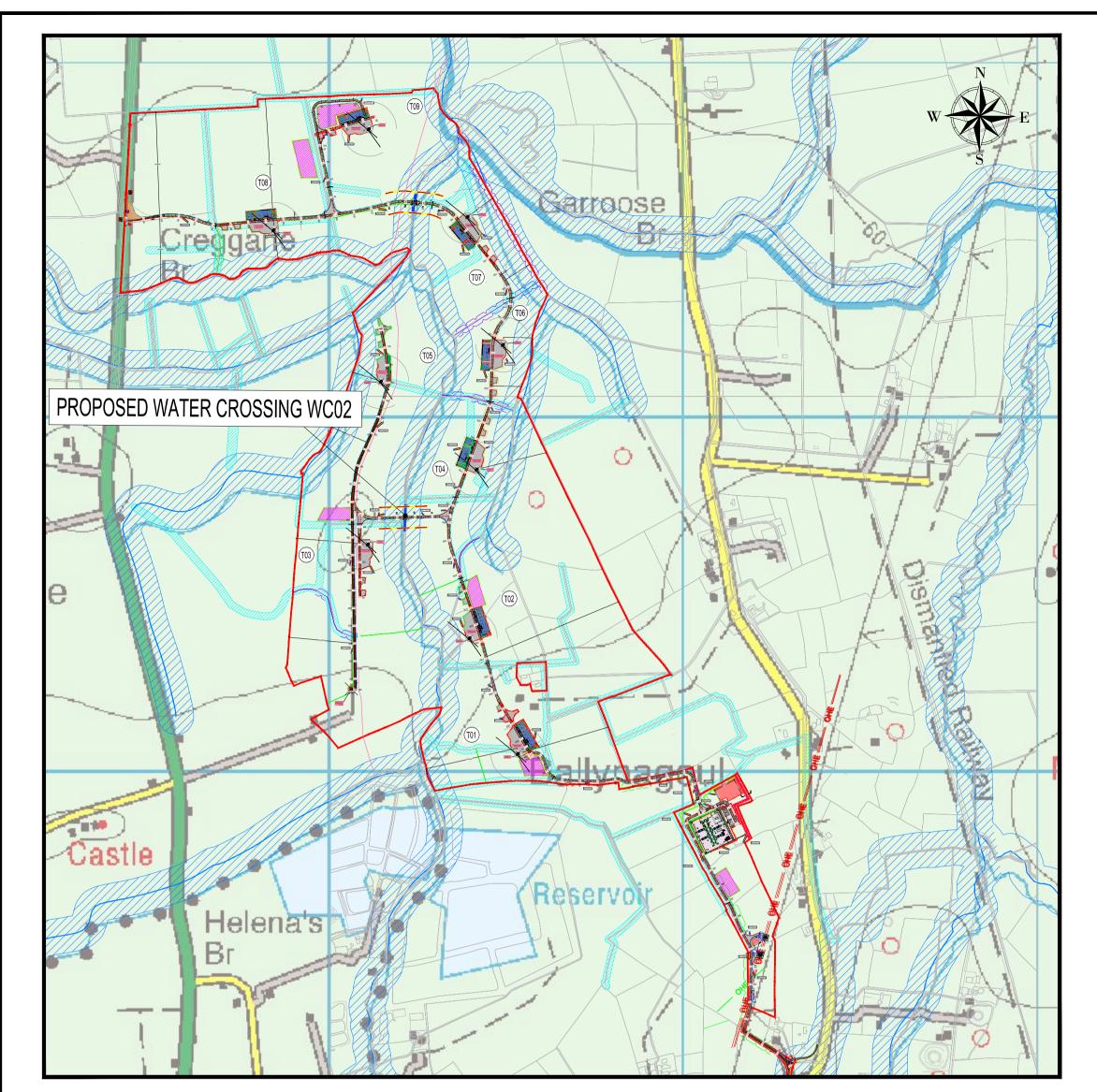
3 ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE

Garrane Green Energy Ltd. Garrane Green Energy project, Garrane, Co.Limerick. Rev. Date Amendments

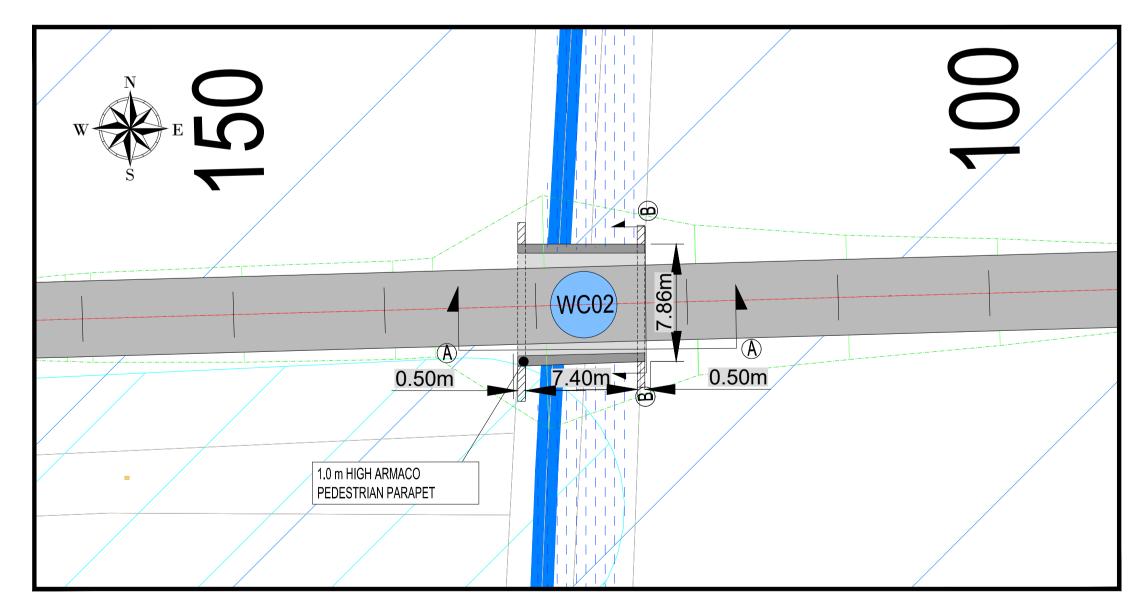
Proposed Water Crossing WC01

Title

Issue Details Office Use Only Drawing Number: Information Surveyed: OSI 6839-JOD-GGE-XX-DR-C-0402 Drawn: A.G Approval Tender Checked: J.D Approved: A.O.G Construction Aug 2025 Scale: **As Shown (A1)** Record



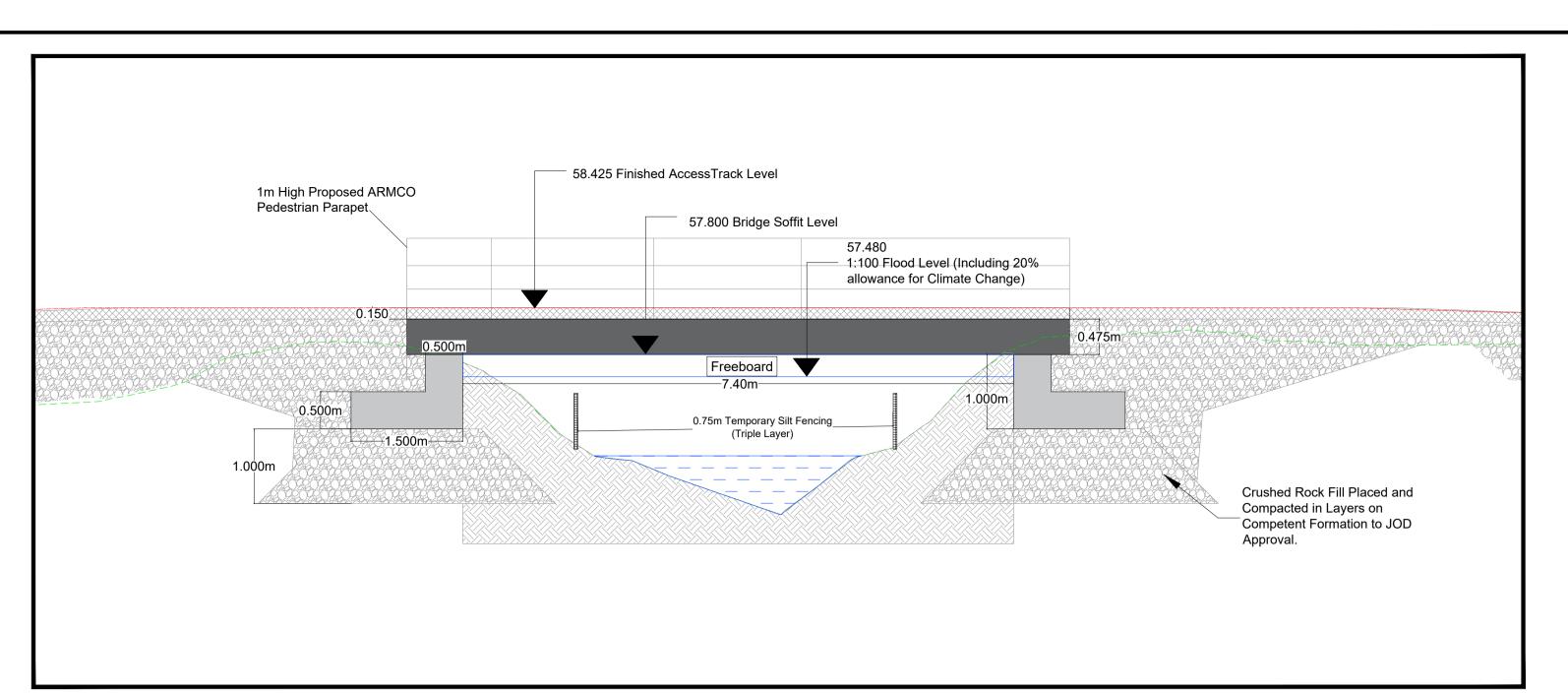
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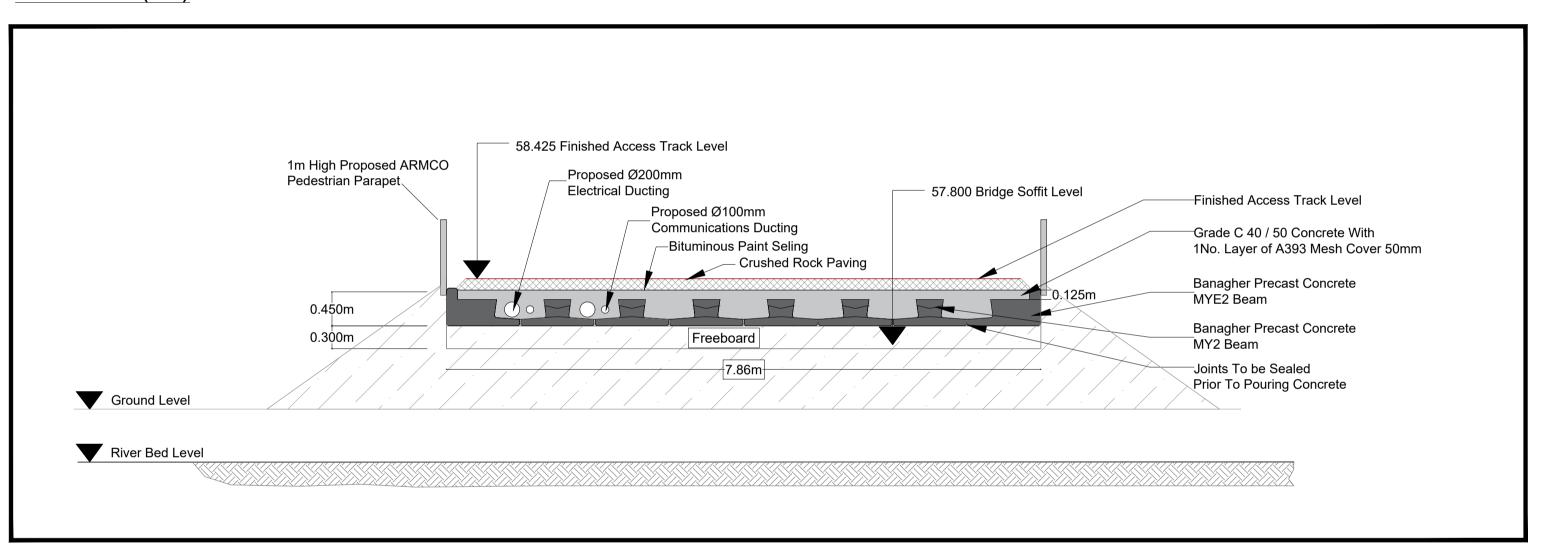
Site Layout Plan Scale 1:250(A1)



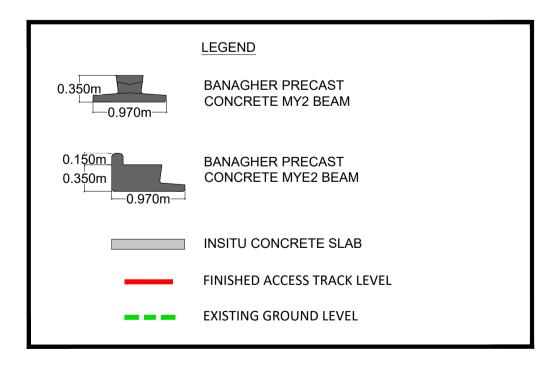
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Section A-A Through Proposed Watercourse Crossing WC02 Scale 1:50(A1)



Section B-B Through Proposed Watercourse Crossing WC02 Scale 1:50(A1)





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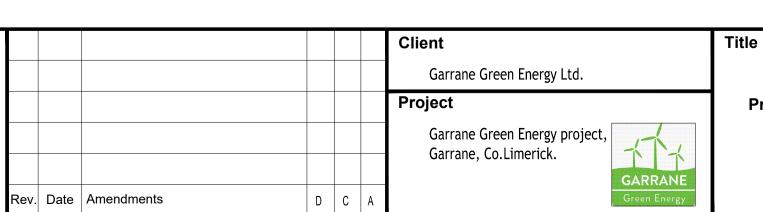
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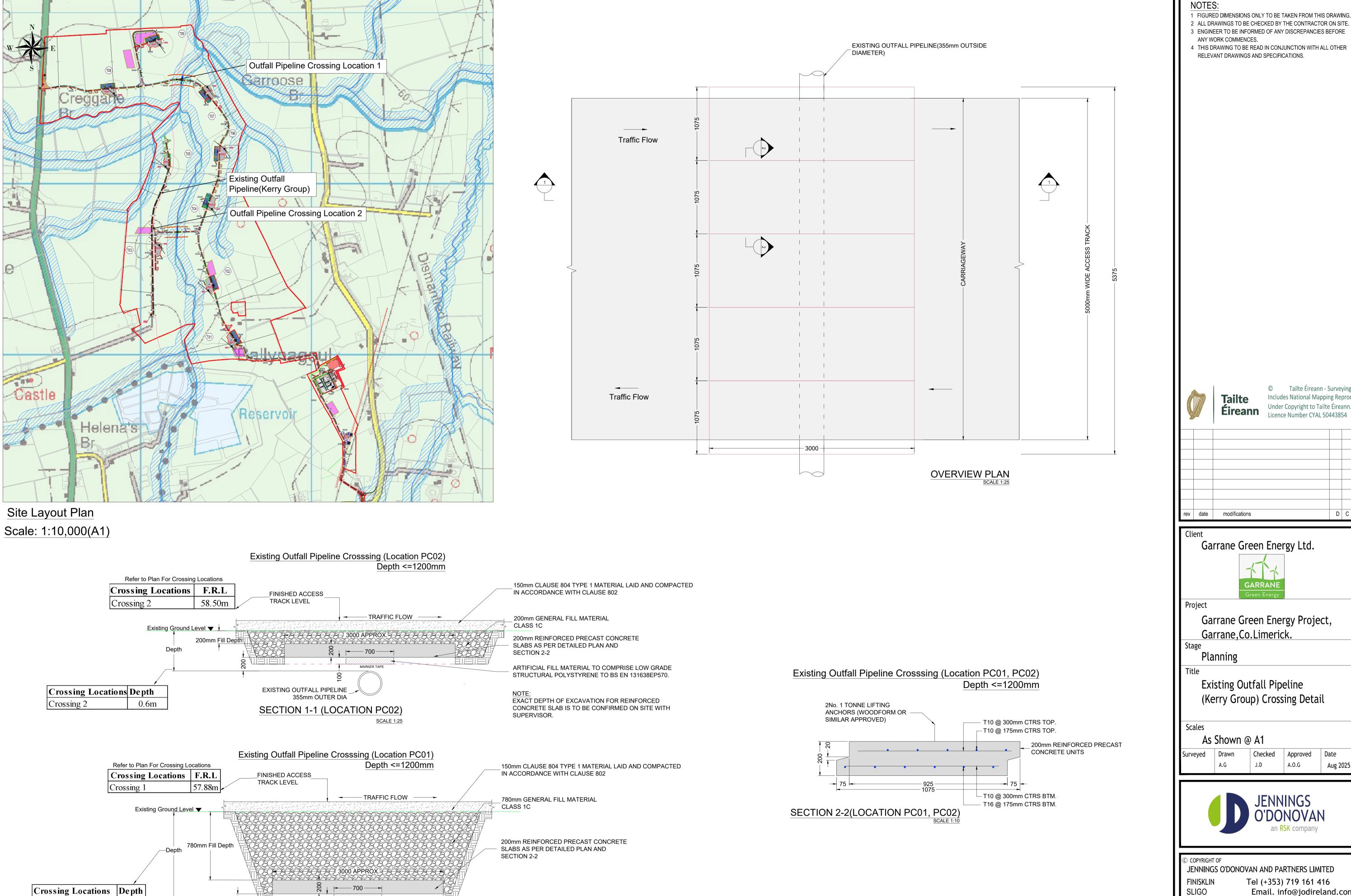
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Issue Details Office Use Only Drawing Number: Information Surveyed: OSI **Proposed Water Crossing WC02** 6839-JOD-GGE-XX-DR-C-0403 Approval Drawn: A.G Tender Checked: J.D Approved: A.O.G Construction Aug 2025 6839 Scale: **As Shown (A1)** Record



ARTIFICIAL FILL MATERIAL TO COMPRISE LOW GRADE STRUCTURAL POLYSTYRENE TO BS EN 131638EP570.

EXACT DEPTH OF EXCAVATION FOR REINFORCED CONCRETE SLAB IS TO BE CONFIRMED ON SITE WITH

1.18m

EXISTING OUTFALL PIPELINE _

355mm OUTER DIA

SECTION 1-1 (LOCATION PC01)

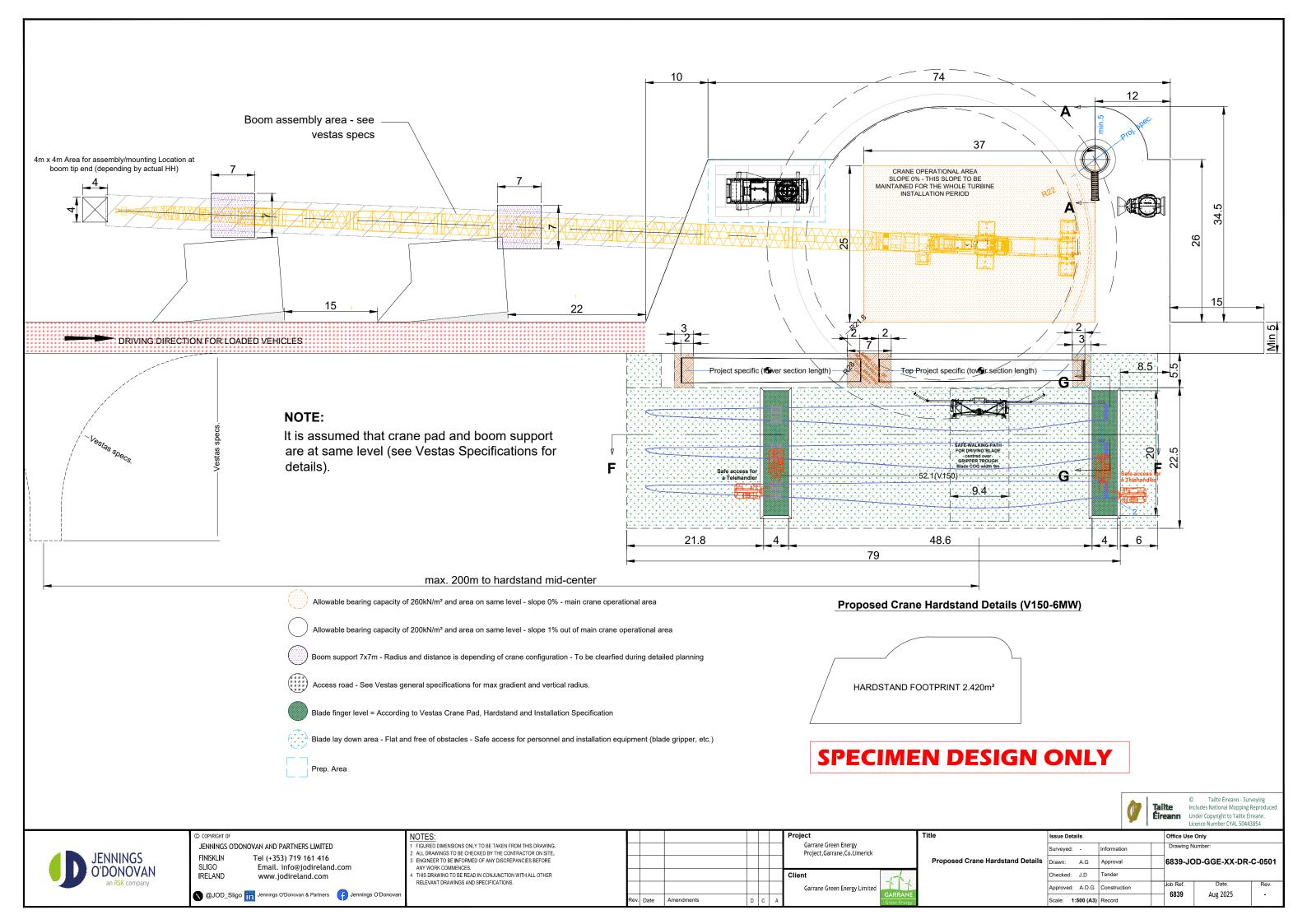
SCALE 1:25

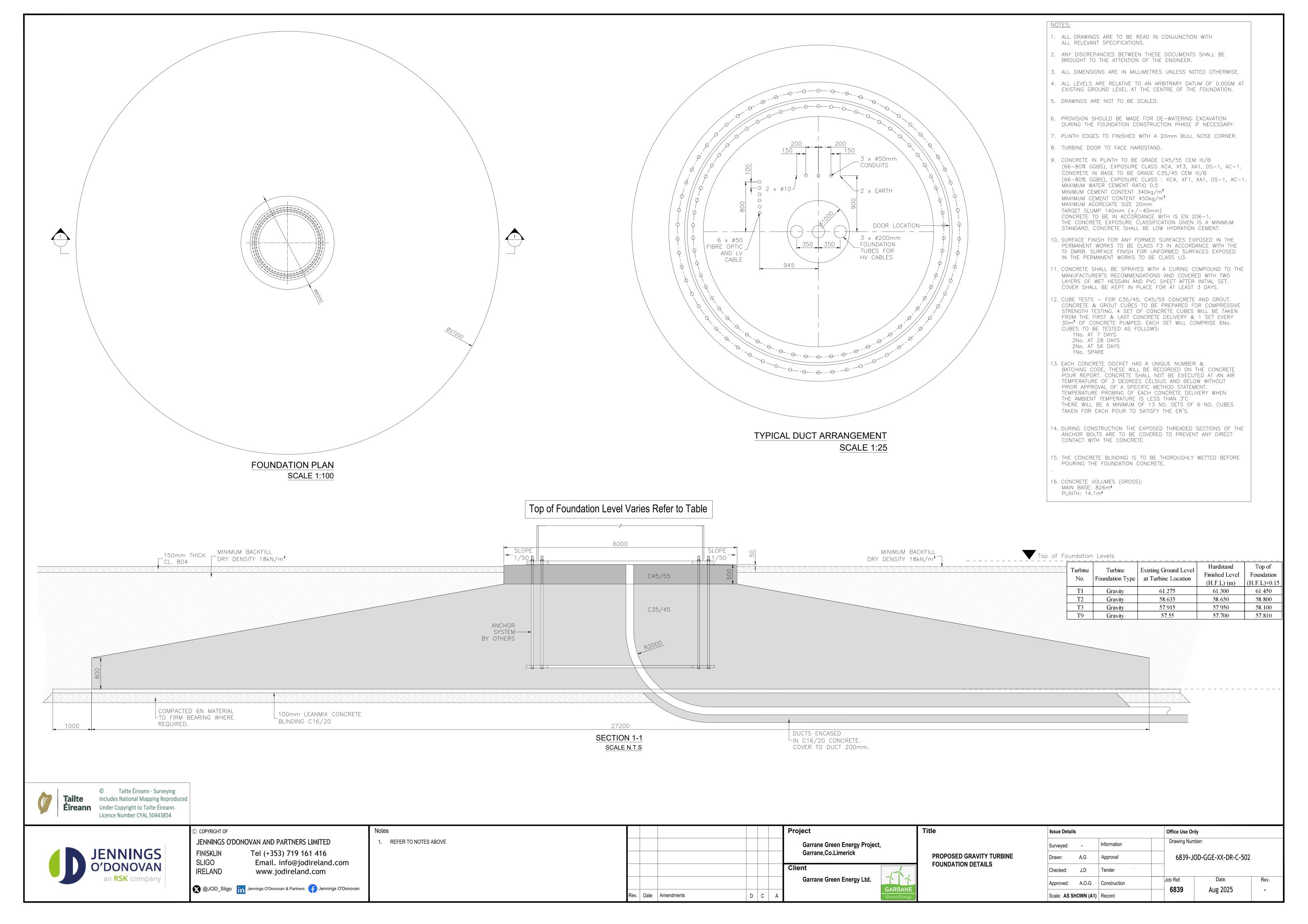
Crossing 1

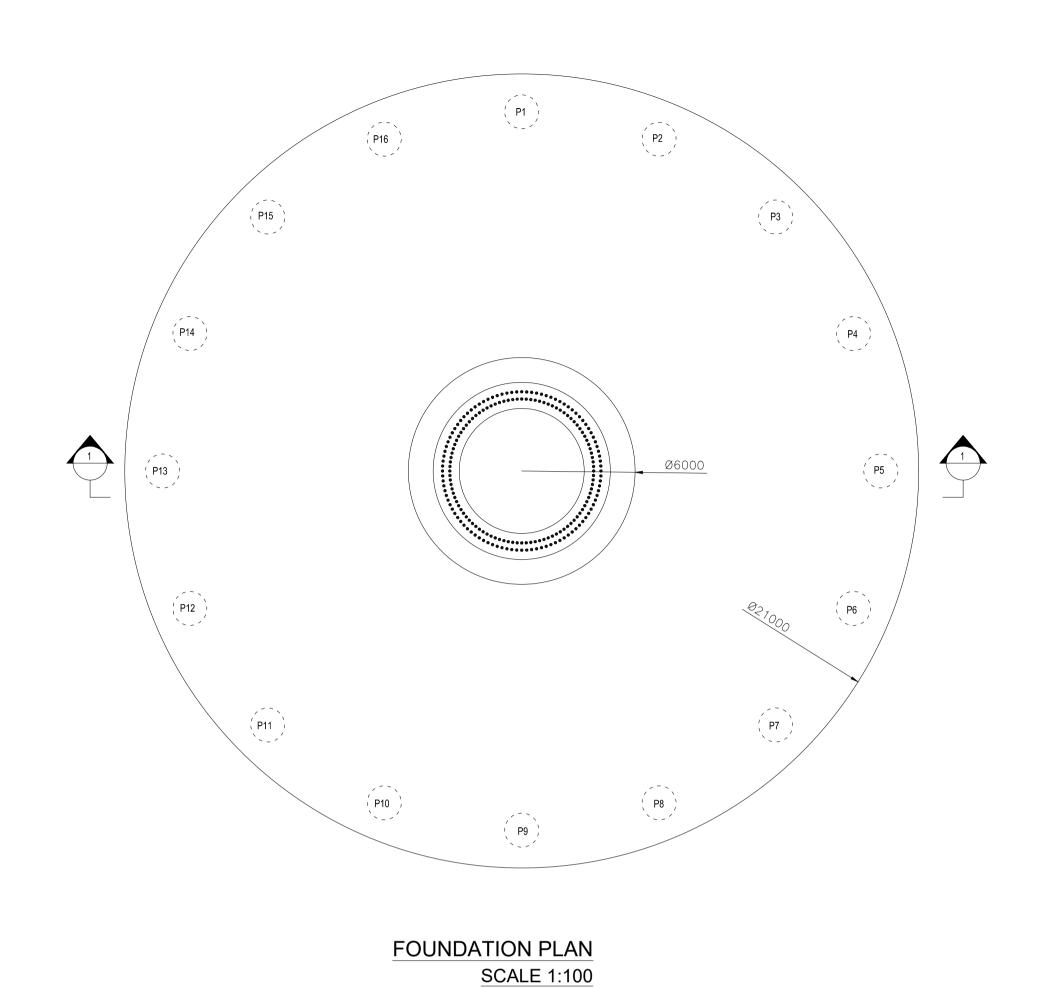


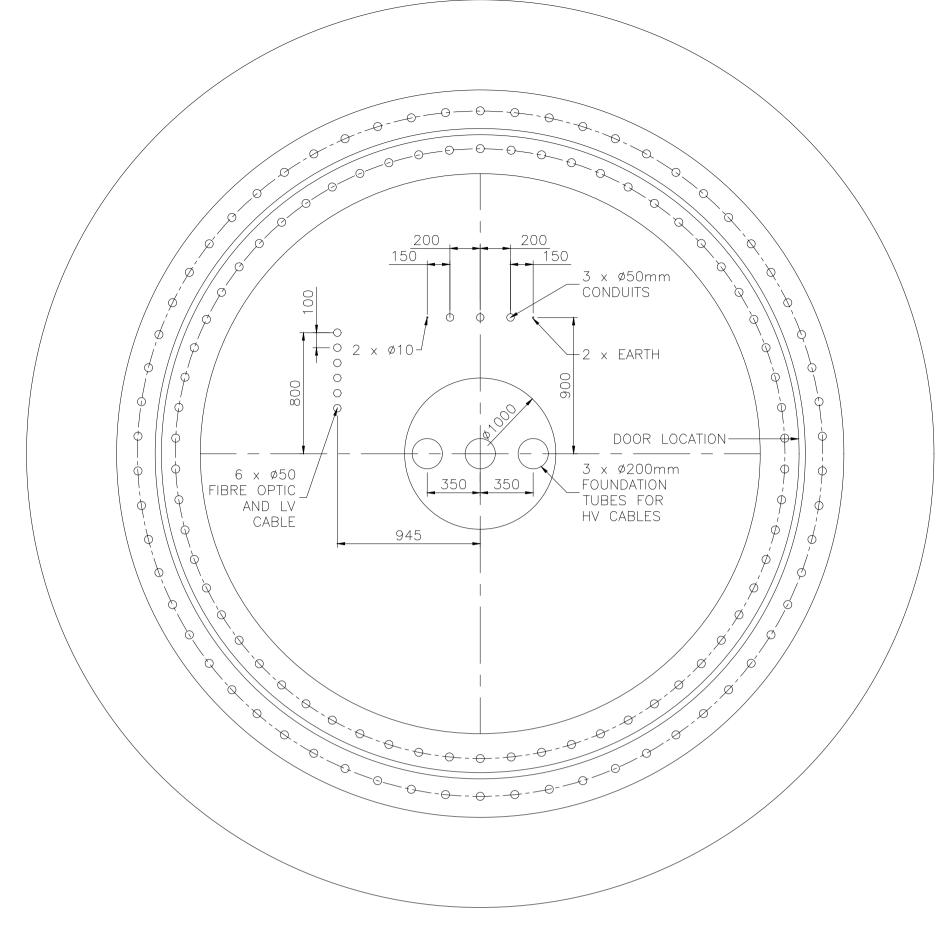
Job Ref. Drawing No.

6839 6839-JOD-GGE-XX-DR-C-0404



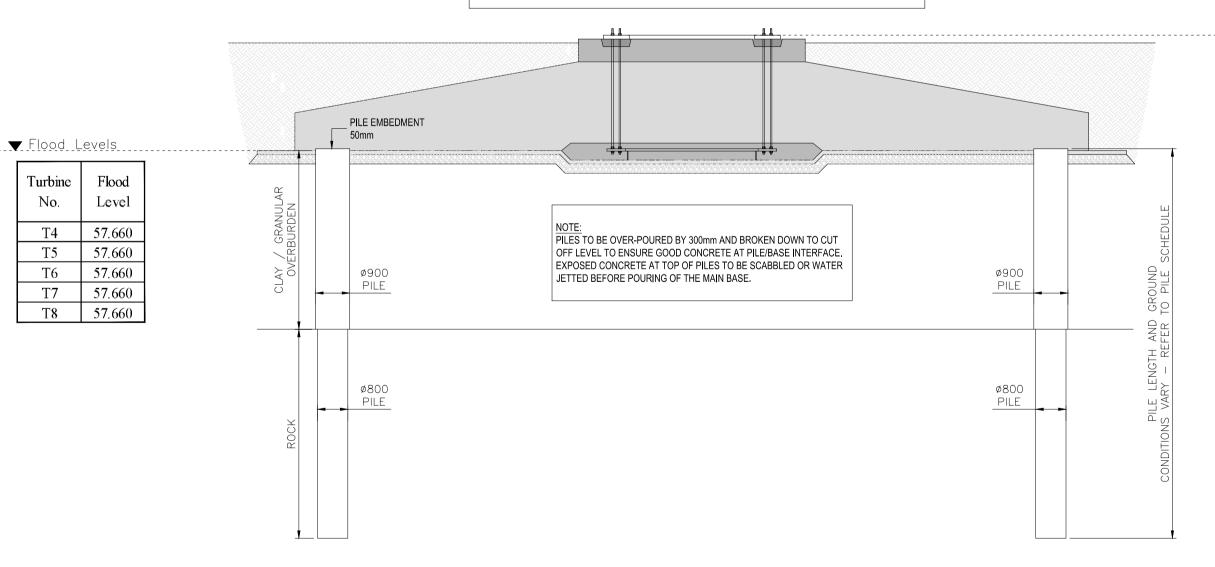






TYPICAL DUCT ARRANGEMENT **SCALE 1:25**

Top of Foundation Level Varies Refer to Table



SECTION 1-1

SCALE 1:100

▼ Top of Foundation Levels

Turbine No.	Turbine Foundation Type	Existing Ground Level at Turbine Location	Hardstand Finished Level (m) Construction	Top of Foundation (Flood Level)+0.15	Hardstand Finished Level (m) Operations
T4	Piled	56.670	56.900	57.810	57.260
T5	Piled	57.185	57,260	57.810	57.260
Т6	Piled	56,730	56,800	57.810	57.260
T7	Piled	56.400	56,600	57.810	57.260
Т8	Piled	57.440	57,600	57.810	57.600

- 1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS.
- 2. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE

BROUGHT TO THE ATTENTION OF THE ENGINEER.

- 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 4. REFER TO REFERENCE DRAWINGS FOR GENERAL NOTES.
- 5. CONCRETE IN PILES TO BE GRADE C30/37. EXPOSURE CLASS: XC4. CONCRETE TO BE IN ACCORDANCE WITH IS EN 206-1. THE CONCRETE EXPOSURE CLASSIFICATION GIVEN IS A MINIMUM STANDARD.
- 6. PILE TESTING REQUIREMENTS AS FOLLOWS: -100% OF PILES TO BE INTEGRITY TESTED TO SPECIFICATION. -4NO. PILES TO BE DYNAMICALLY TESTED PER BASE WITH 1NO. CAPWAP. -2NO. STATIC TENSION TEST TO BE CARRIED OUT (TOTAL)
- TO DVL = SWL X 1.6 IN ACCORDANCE WITH ICE SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS (3rd EDITION), TB 15.1 FOR A SINGLE CYCLE TEST IN INCREMENTS OF 20% DVL. -1NO. STATIC COMPRESSION TEST (TOTAL) SHALL BE CARRIED OUT

ON A WORKING PILE IN ACCORDANCE WITH ICE SPECIFICATION FOR

- PEAK TEST LOAD TO BE = 100% DVL + 50% SWL (I.E. 150% SWL, CONSIDERING DVL = SWL). THE PILE TO BE TESTED SHALL BE AGREED WITH JOD HAVING REVIEWED THE PILE INSTALLATION LOGS.
- THE PILES TO BE TESTED SHALL BE AGREED WITH JOD HAVING REVIEWED THE PILE INSTALLATION LOGS. ALL TESTING SHALL BE CARRIED OUT AND REPORTED IN ACCORDANCE WITH THE ICE SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS (3rd EDITION). THE CONTRACTOR SHALL PROVIDE JOD WITH PILE TESTING METHOD STATEMENTS FOR REVIEW IN ADVANCE OF PILE
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS. THE CONTRACTOR MUST PREPARE A METHOD STATEMENT AND SUBMIT IT TO THE ENGINEER PRIOR TO THE UNDERTAKING OF ANY STRUCTURAL OR CIVIL ENGINEERING WORKS.
- 8. CUBE TESTS FOR C30/37. CONCRETE CUBES TO BE PREPARED FOR COMPRESSIVE STRENGTH TESTING. CONCRETE CUBE TESTING TO BE AT A RATE OF 1 SET OF 5 CUBES PER 30M³ OF CONCRETE. EACH SET OF 5 FOLLOWS, 1 CUBE AT 7 DAYS
- 2 CUBES AT 28 DAYS 1 CUBE TO BE TESTED AT 56 DAYS IF THE 28 DAY STRENGTH IS NOT REACHED. 1 SPARE CUBE.

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Turbine

No.

1. REFER TO NOTES ABOVE

Project Garrane Green Energy Project, Garrane,Co.Limerick Garrane Green Energy Ltd.

Rev. Date Amendments

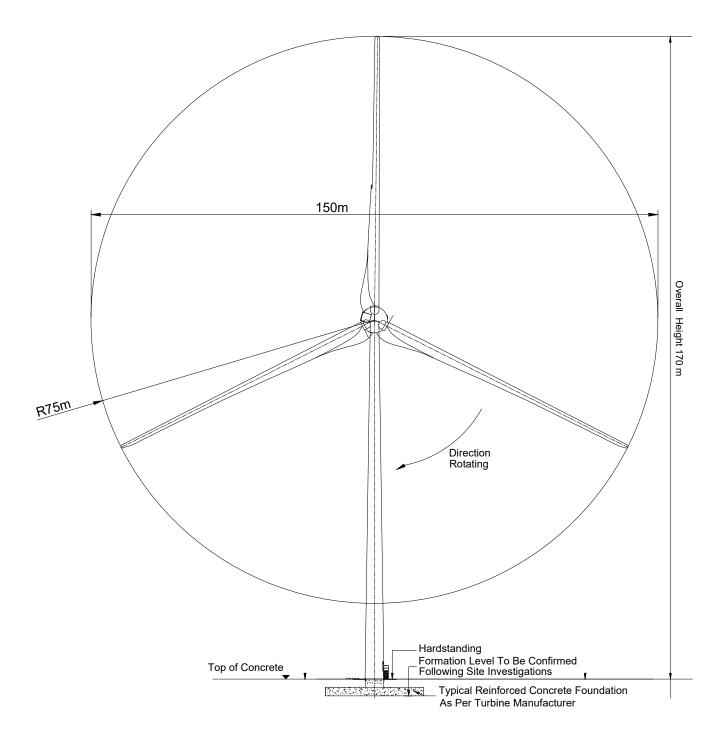
PROPOSED PILE TURBINE FOUNDATION **DETAILS**

Title

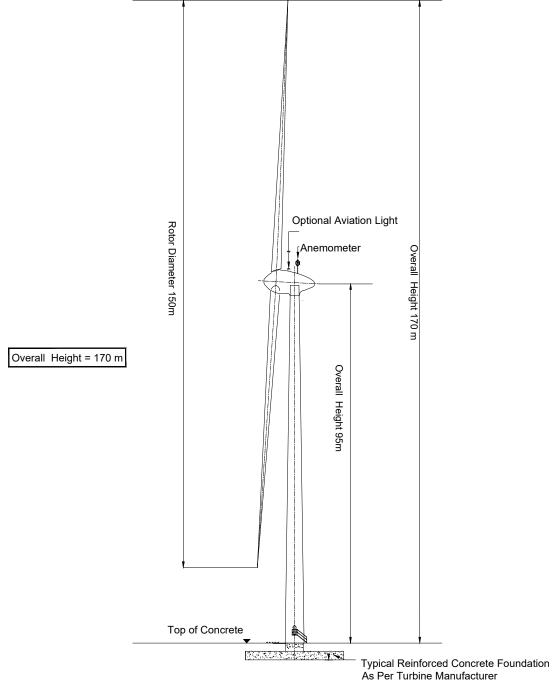
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	Issue Details				Office Use Only			
	Surveyed:	-	Information		Drawing Number: 6839-JOD-GGE-XX-DR-C-503			
١	Drawn:	A.G	Approval					
	Checked:	J.D	Tender	*				
	Approved:	A.O.G	Construction	n	Job Ref.	Date.	Rev.	
	Scale: As She	own (A1)	Record		6839	Aug 2025	-	



Orientation Varies Refer to Layout Plan



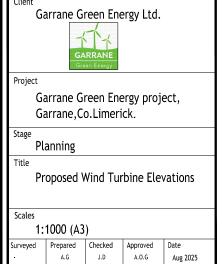
FRONT ELEVATION Scale 1:1000



SIDE ELEVATION Scale 1:1000

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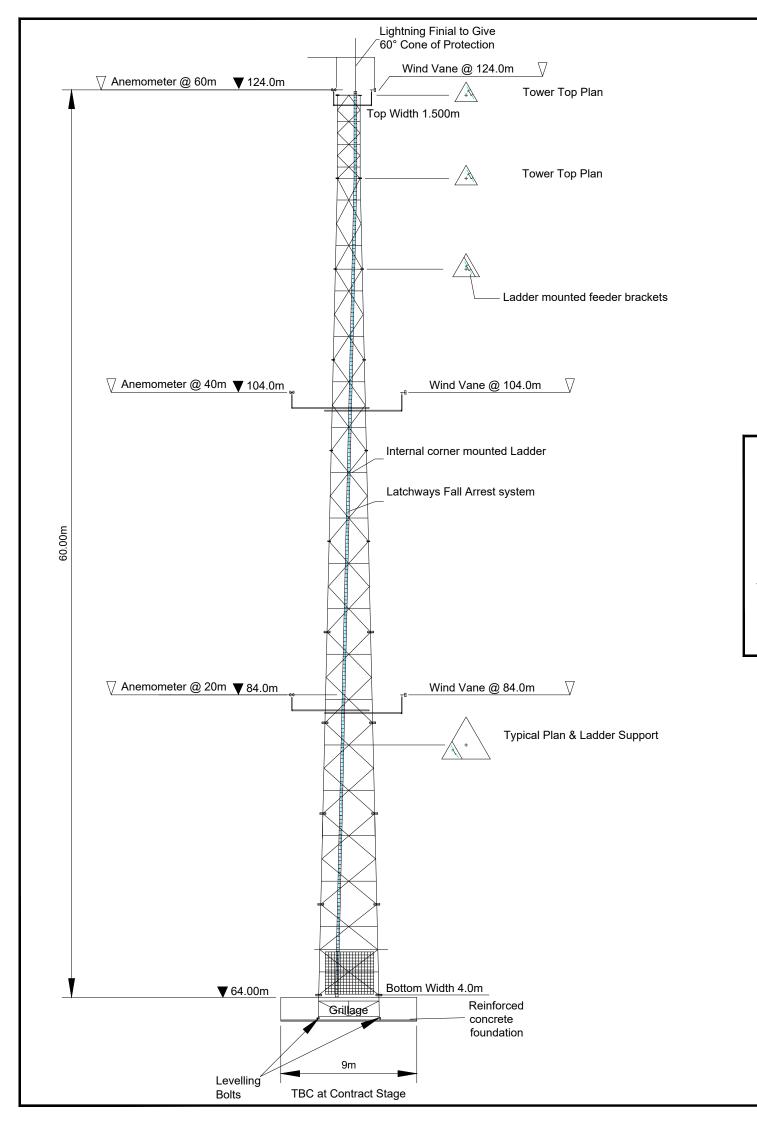


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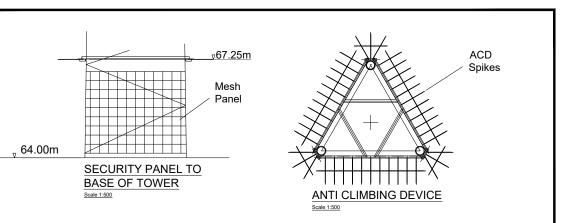
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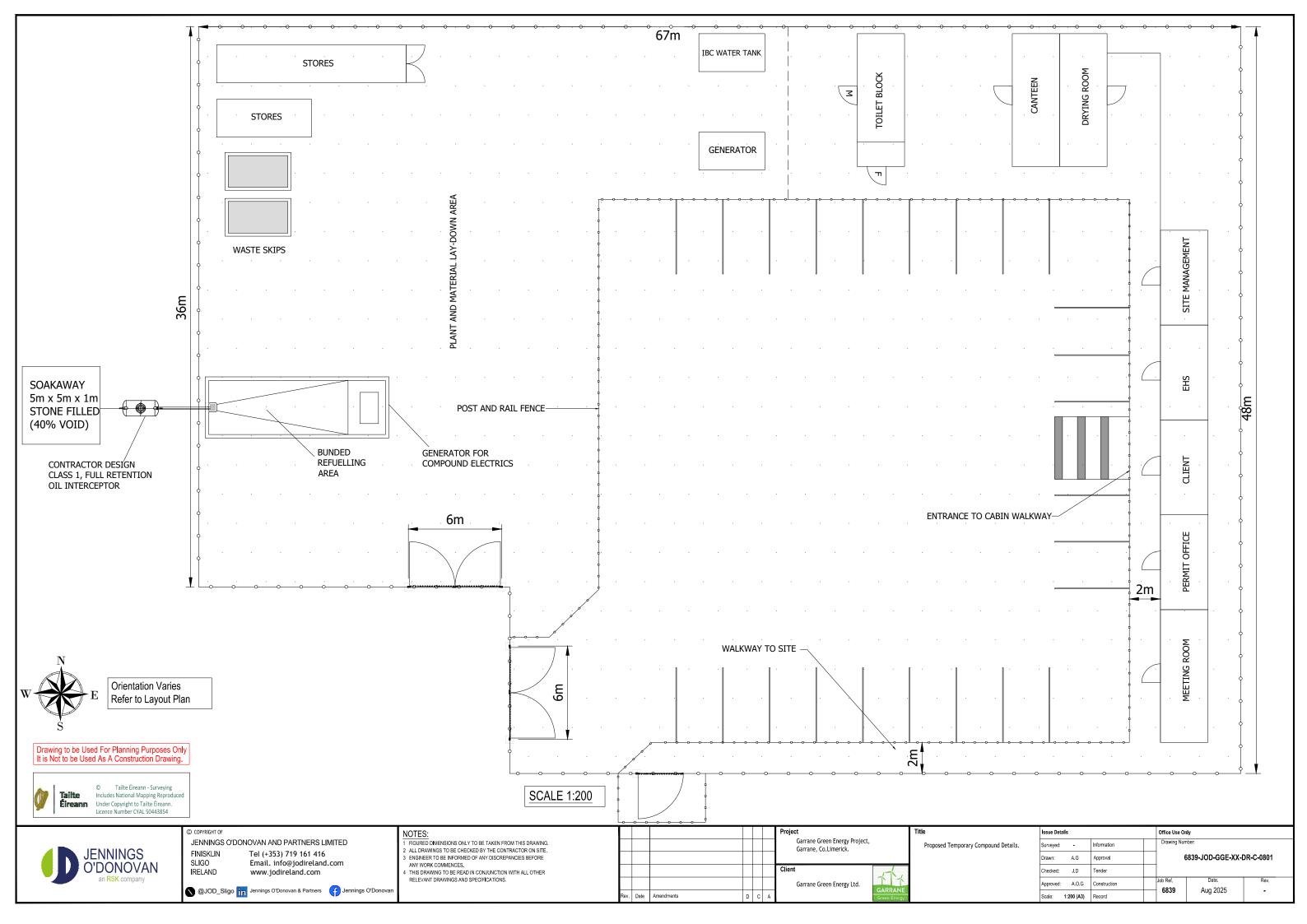
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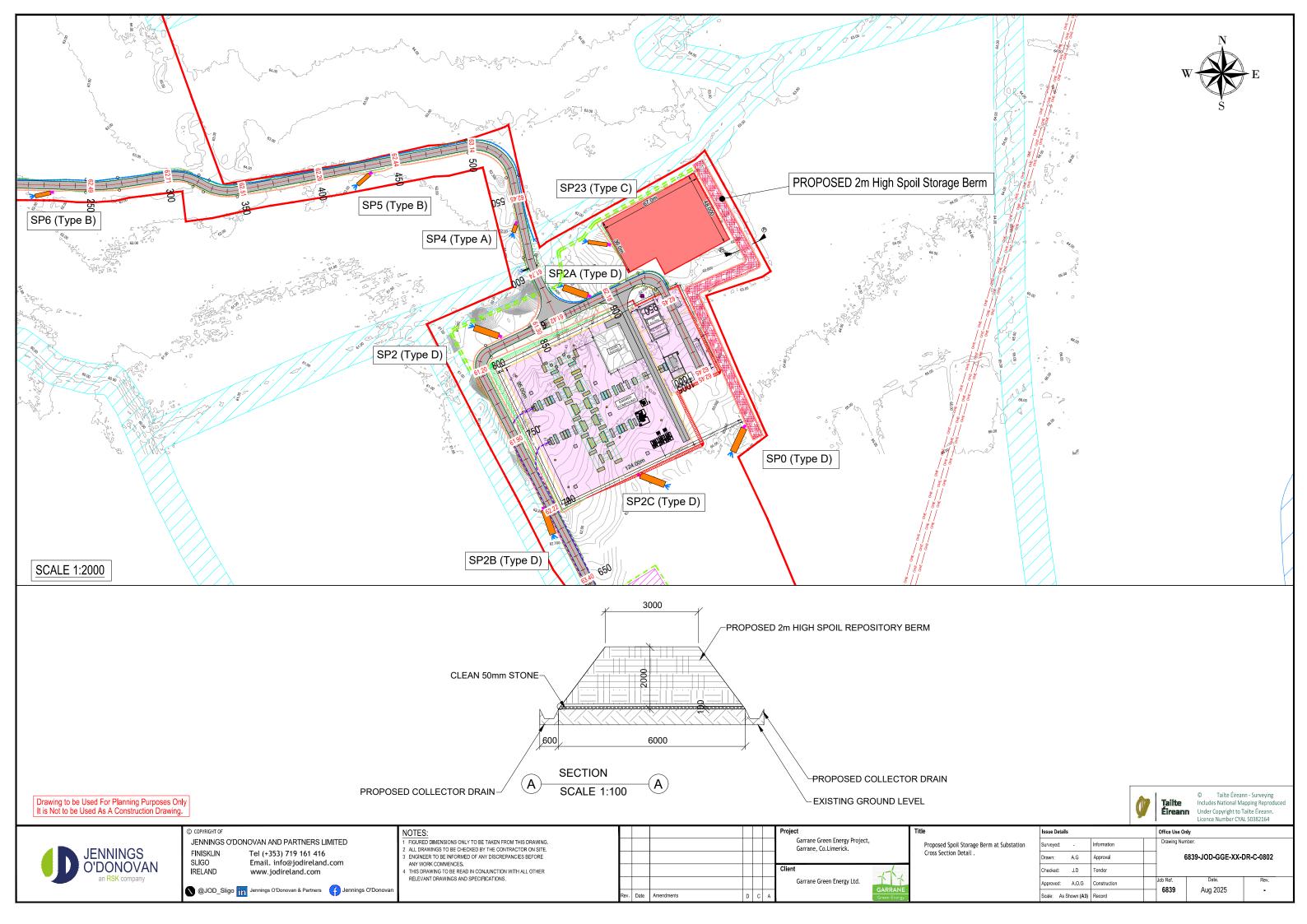
1:250 (A3)

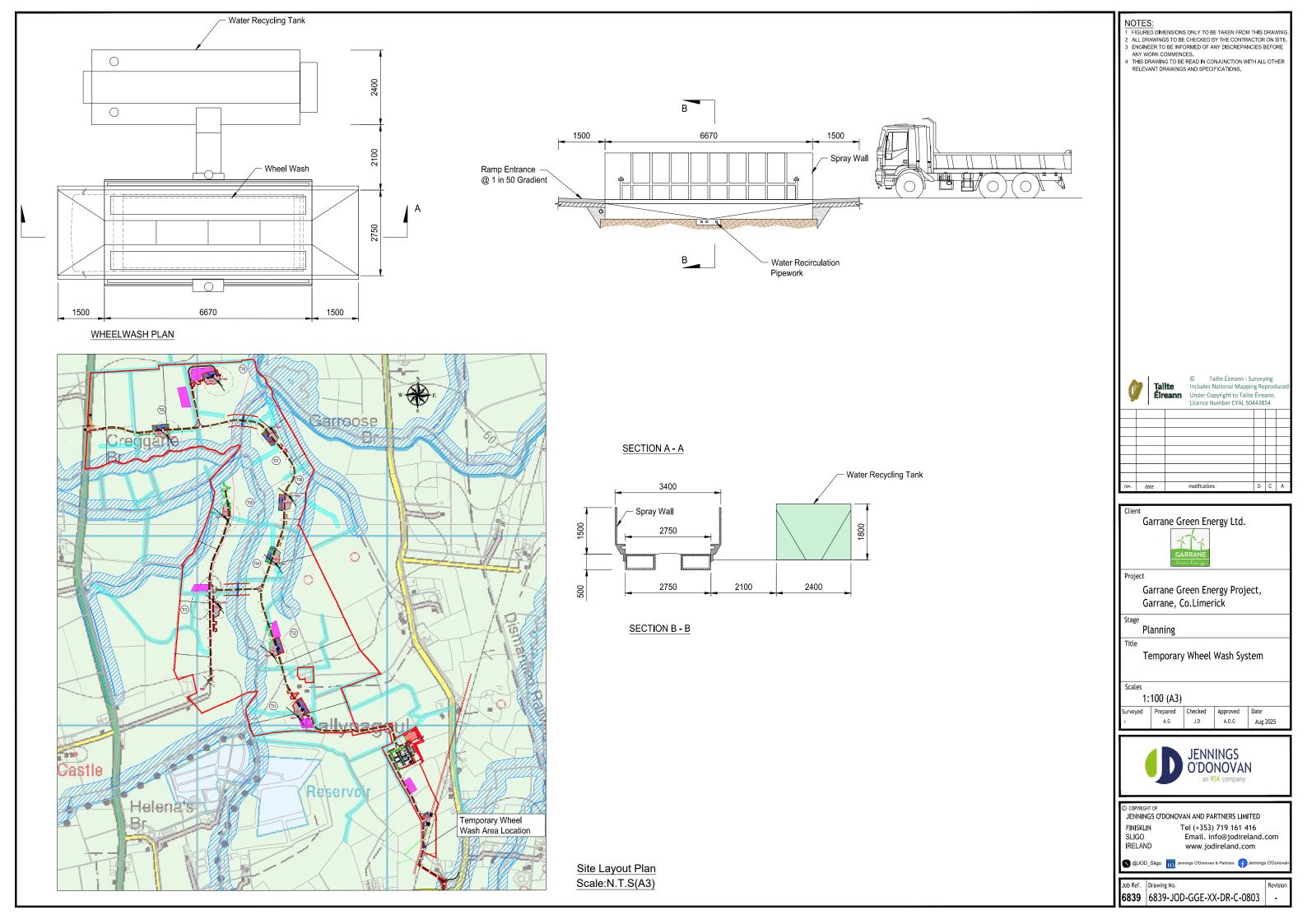
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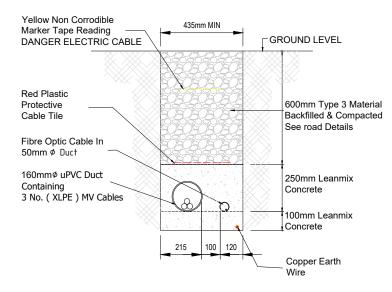
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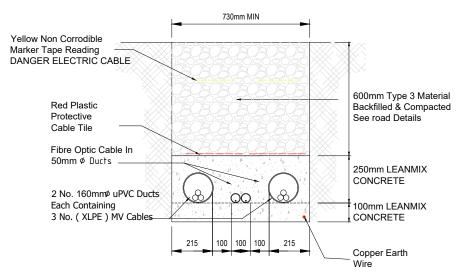




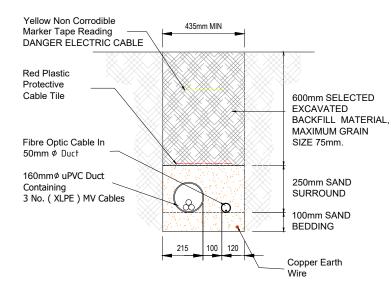




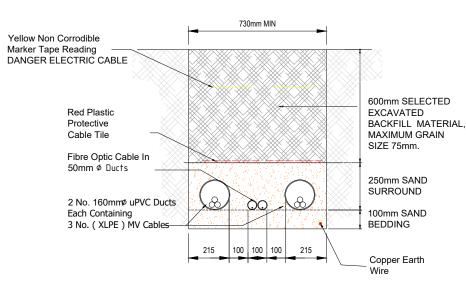
CABLE TRENCH IN SITE ACCESS TRACK SINGLE CIRCUIT (INTERNAL WIND FARM) Scale 1:20



CABLE TRENCH IN SITE ACCESS TRACK TWIN CIRCUIT (INTERNAL WIND FARM)
Scale 1:20

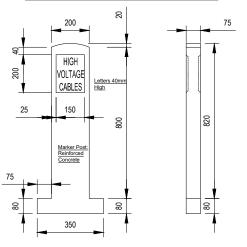


CABLE TRENCH IN OPEN GROUND SINGLE CIRCUIT (INTERNAL WIND FARM) Scale 1:20



CABLE TRENCH IN OPEN GROUND TWIN CIRCUIT (INTERNAL WIND FARM)
Scale 1:20

CABLE MARKER POST DETAIL



FRONT ELEVATION Scale 1:20

SIDE ELEVATION
Scale 1:20



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Planning
itle
Proposed Cable Trench Details

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rveyed Prepared Checked Approved Date
A.G J.D A.O.G Aug 2025

1:20 (A3)



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