

# BARR CREGG WIND FARM

## Further Environmental Information 2018

### Volume 3 - Figures



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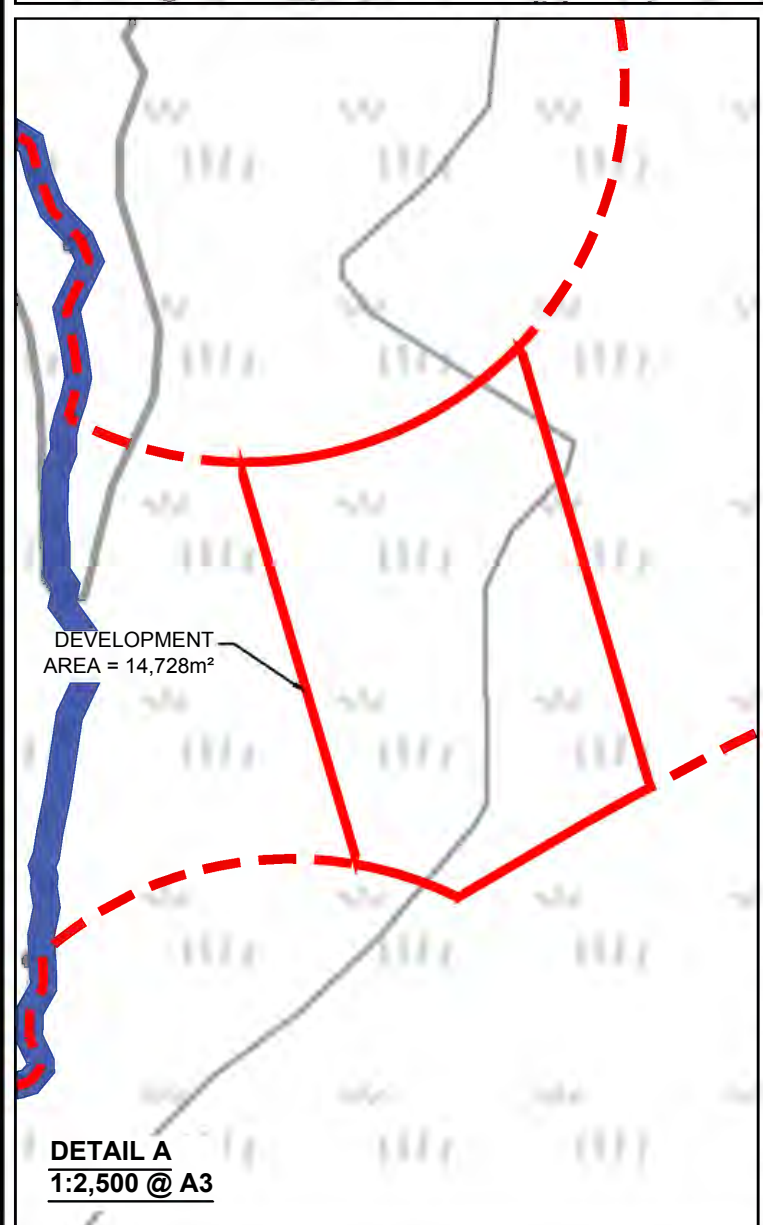
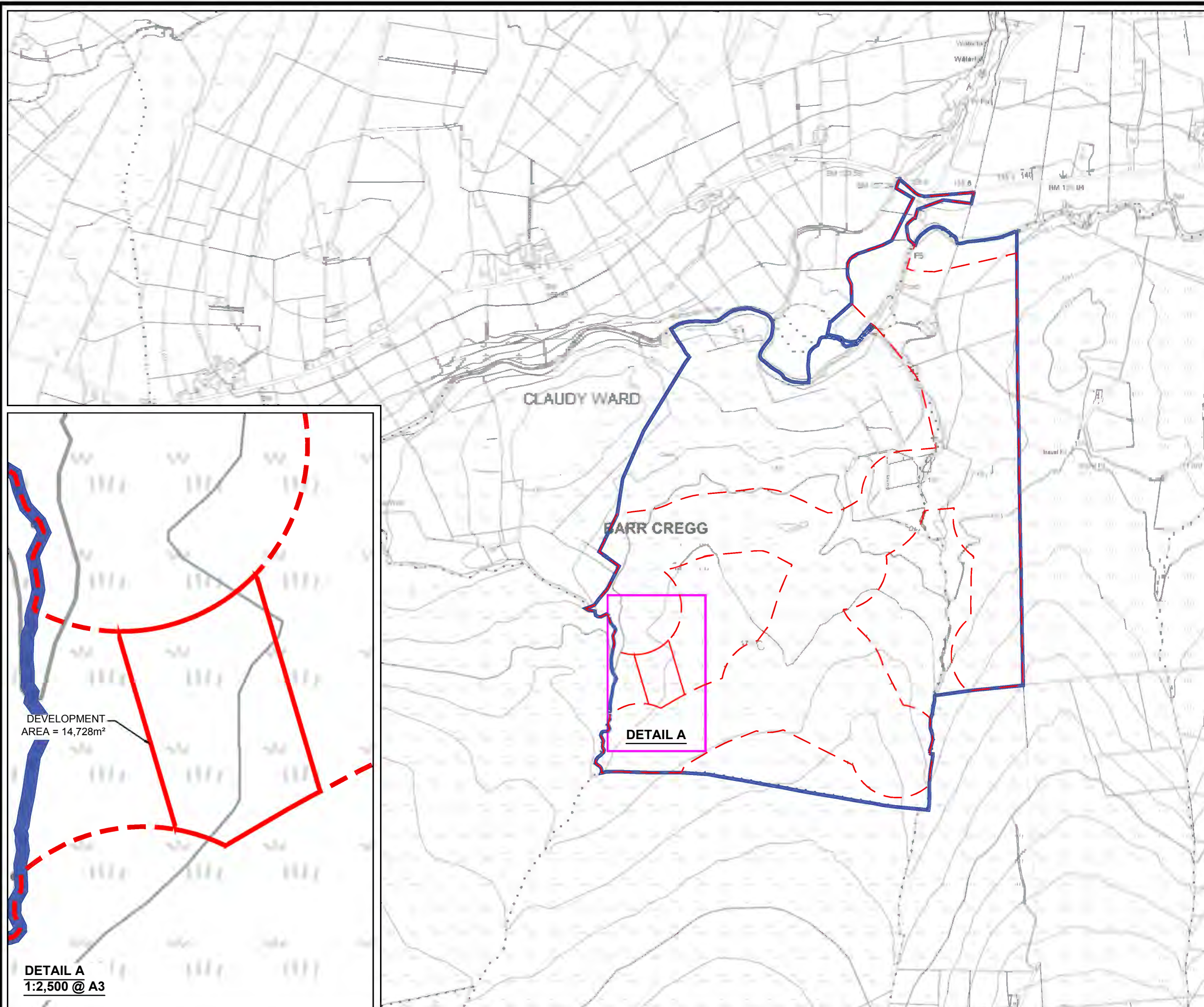
# BARR CREGG WIND FARM

## FIGURE B - REVISION A DEVELOPMENT AREA PLAN - ALTERNATIVE INFRASTRUCTURE LAYOUT

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### KEY:

- PLANNING APPLICATION BOUNDARY
- - - PLANNING APPLICATION BOUNDARY (PLANNING REFERENCE A/2012/0401-F)
- LAND UNDER APPLICANT CONTROL



LAYOUT DWG N/A T-LAYOUT NO. N/A

DRAWING NUMBER  
**02381D2239-02**

SCALE - **1:10,000**

**FEI 2018**

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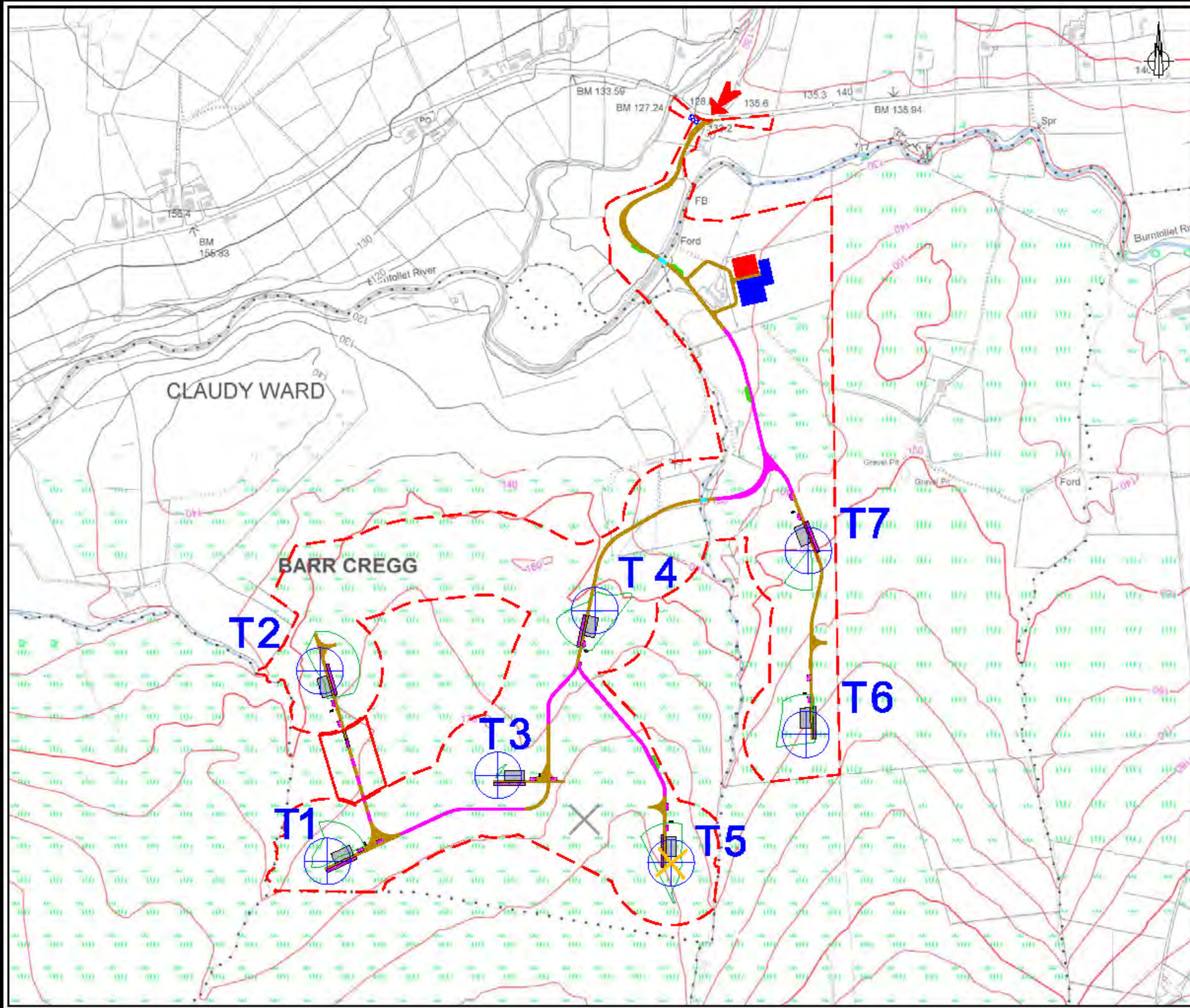


# BARR CREGG WIND FARM

## FIGURE E - REVISION B

### ALTERNATIVE INFRASTRUCTURE LAYOUT

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- Key**
- ⊕ Wind Turbine Location
  - Micrositing Buffer (80m)
  - - - Planning Application Boundary
  - ▬ Planning Application Boundary (Planning Reference A/2014/0114/F)
  - ▬ Site Tracks (New Excavated)
  - ▬ Site Tracks (New Floated)
  - ▬ Site Tracks (New Excavated on Floated)
  - Control Building & Substation Compound
  - Clear Span Watercourse Crossing
  - Crane Hard Standing Area
    - Permanent
    - Temporary
  - ▬ Temporary Passing Places & Turning Heads
  - Temporary Construction Compound
  - Temporary Enabling Works Compound
  - ⊗ Meteorological Calibration Reference Mast Location
  - ⊗ Meteorological Calibration Mast Location
  - ➔ Site Entrance Location

LAYOUT DWG: 02381D0001-12      LAYOUT NO: pNIRbrc034

DRAWING NUMBER: 02381D1004-07

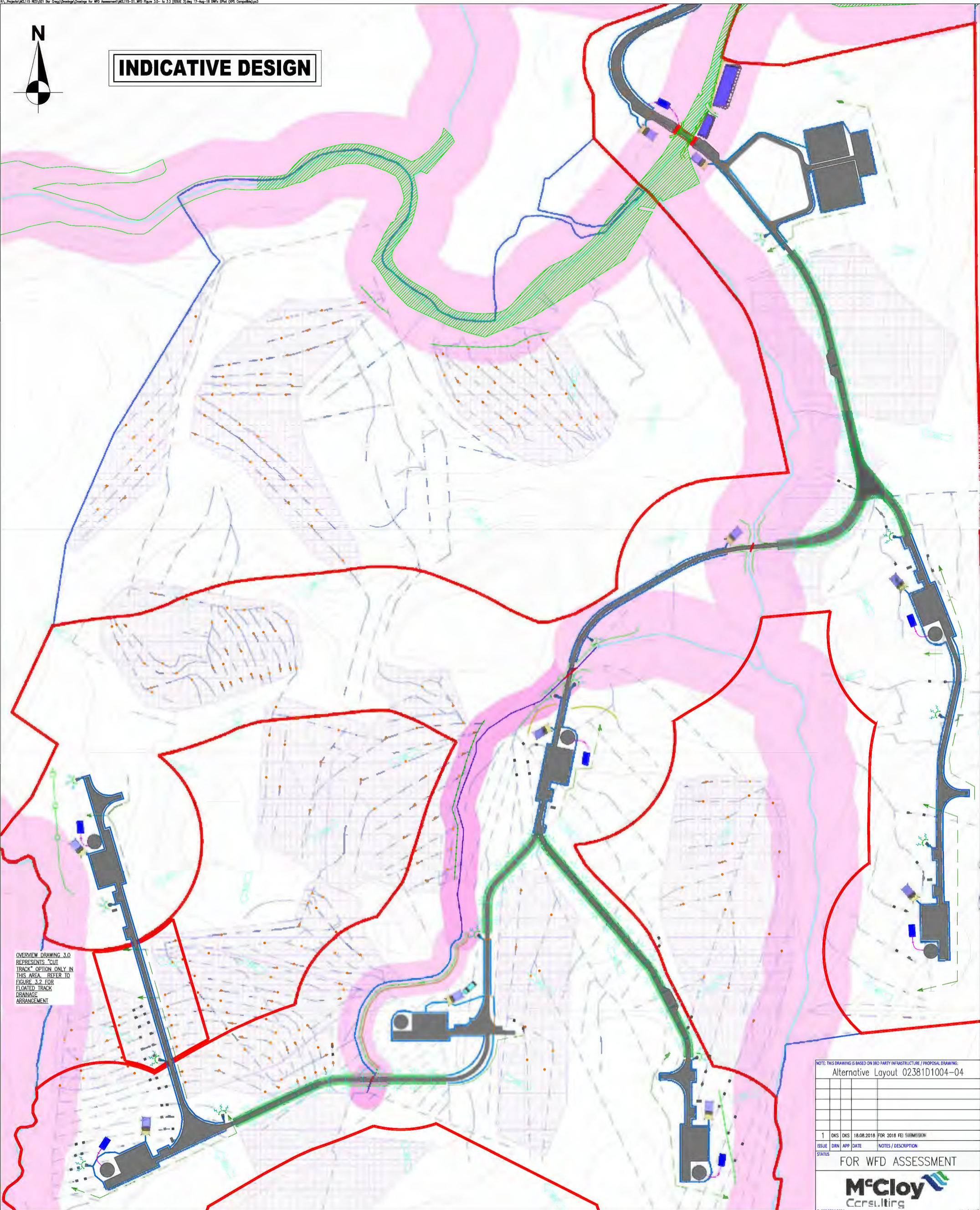
SCALE - 1:7,500 @ A3

FEI 2018

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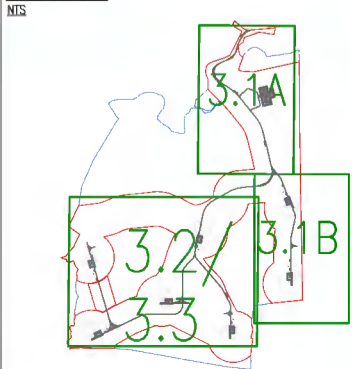


# INDICATIVE DESIGN



OVERVIEW DRAWING 3.0 REPRESENTS "SUI TRACK" OPTION ONLY IN THIS AREA. REFER TO FIGURE 3.2 FOR FLOATED TRACK DRAINAGE ARRANGEMENT.

## KEY PLAN



## NOTES

- Drainage layout shown is indicative for Planning purposes only and is intended to be developed post-consent. Drainage features shown are subject to change dependent on detailed infrastructure design and local topography.
- Location of crossings, swales, breakouts, ponds etc is indicative only for purposes of preliminary planning drawing layout.
- Pipe sizes to be confirmed at detailed design stage.
- 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 and geotextile barriers at the problem areas.
- SuDS system to be constructed prior to, or at the same time as the access road. Interim measures such as the placement of silt fences to be employed in all instances where work carried out to construct the access road is likely to cause adverse environmental impacts.
- Suitable prevention measures should be in place at all times to prevent the conveyance of silts to receiving water courses.
- Drainage swales to be constructed adjacent to the access track. Regular cross drains to be located along access tracks to prevent excessive volumes of water collecting in the swales. Surface water will not be allowed to discharge directly into existing water courses.
- Butters of swales to have a slope of between 1:1½ - 1:2 depending upon depth of swale and will be left as cut to re-vegetate with local species.
- Roadside swales to be shallow with moderate gradients to prevent scouring. In steep areas check dams have been designated to reduce flow rate and provide source control silt containment. Where necessary these have been designated in conjunction with settlement ponds and/or cross drains.
- Slopes of the swale to be vegetated or protected from erosion until vegetation has been established. Stripped vegetative layer from excavations to be stored locally and used to line slopes and base of swales. Vegetative layer to be placed into swale after construction of the swale.
- Where seeding is required, Grass seed mix shall use locally sourced mix based upon the surrounding habitat. To achieve the required local biodiversity, the seed mix and planting regime shall be agreed with appointed ecologist.
- Areas stripped of vegetation should be kept to a minimum.
- Clean Stone flow control check dams to be locally won well graded stone. Aggregate size for stone check dams to be typically 20/40mm clean stone. On sloping sections of the access road, 20/40mm check dams to be protected from washing away through the placement of 100mm stone on the downhill face of the check dam.
- 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 maintenance program during the construction phase. Where check dams become clogged with silt or vegetation, stone check dam to be removed and replaced.
- Spacing and frequency of check dams will be dependant upon longitudinal gradient of swale. Location of filtration check dams to be generally as per the site layout plan. Flow Filtration check dams to be constructed from recycled railway sleepers or similar approved. Materials used to construct flow filtration check dam to be bolted to supports where accessible. Oil fuel should be stored within containment and cement should be mixed within compound / containment, tools washed in the same area and water recycled (in the cement mix).

## SuDS KEY

- Floated track balancing crossdrain
- Undertrack drainage (Construction Runoff)
- Undertrack drainage (Natural Runoff)
- Watercourse crossing
- Drainage Swale / Indicative Breakout & Check Dam
- Natural Runoff Cut-off Ditch
- Silt Fence
- Settlement Pond
- Temporary Washout Pit
- 50m Buffer to Watercourse / 20m Buffer to Drain
- Temporary barrier (straw bale or similar)

## MAP KEY

- Site Boundary
- Watercourse
- Drain
- Ephemeral Ditch/ Field Drain
- Faughan & Tributaries SAC
- Natural Overland Flow Directions
- Habitat Enhancement Area
- Habitat Improvement - Permanent Drain Blocking

NOTE: THIS DRAWING IS BASED ON 3RD PARTY INFRASTRUCTURE / PROPOSAL DRAWING:  
Alternative Layout 02381D1004-04

ISSUE	DRN	APP	DATE	NOTES / DESCRIPTION
1	DKS	DKS	18.08.2018	FOR 2018 FEI SUBMISSION

STATUS FOR WFD ASSESSMENT

**McClroy Consulting**

T: 028 9084 8294  
F: 028 9084 1525  
E: info@mcclroyconsulting.com  
W: www.mcclroyconsulting.com

PROPOSED WIND FARM AT BARR CREGG, CO. DERRY

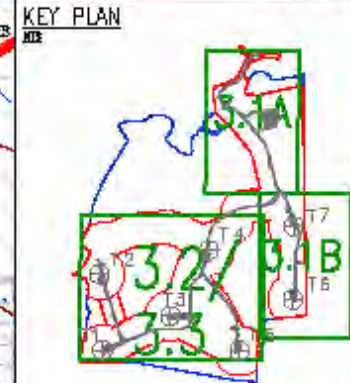
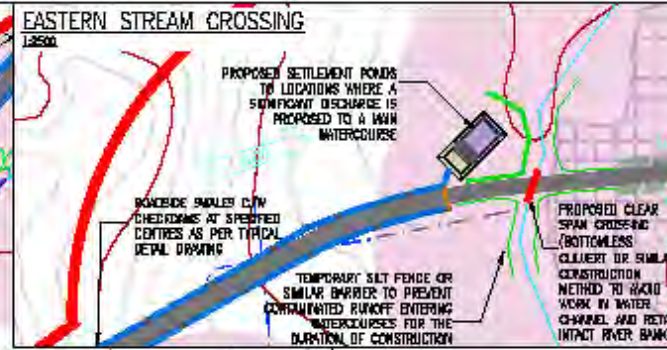
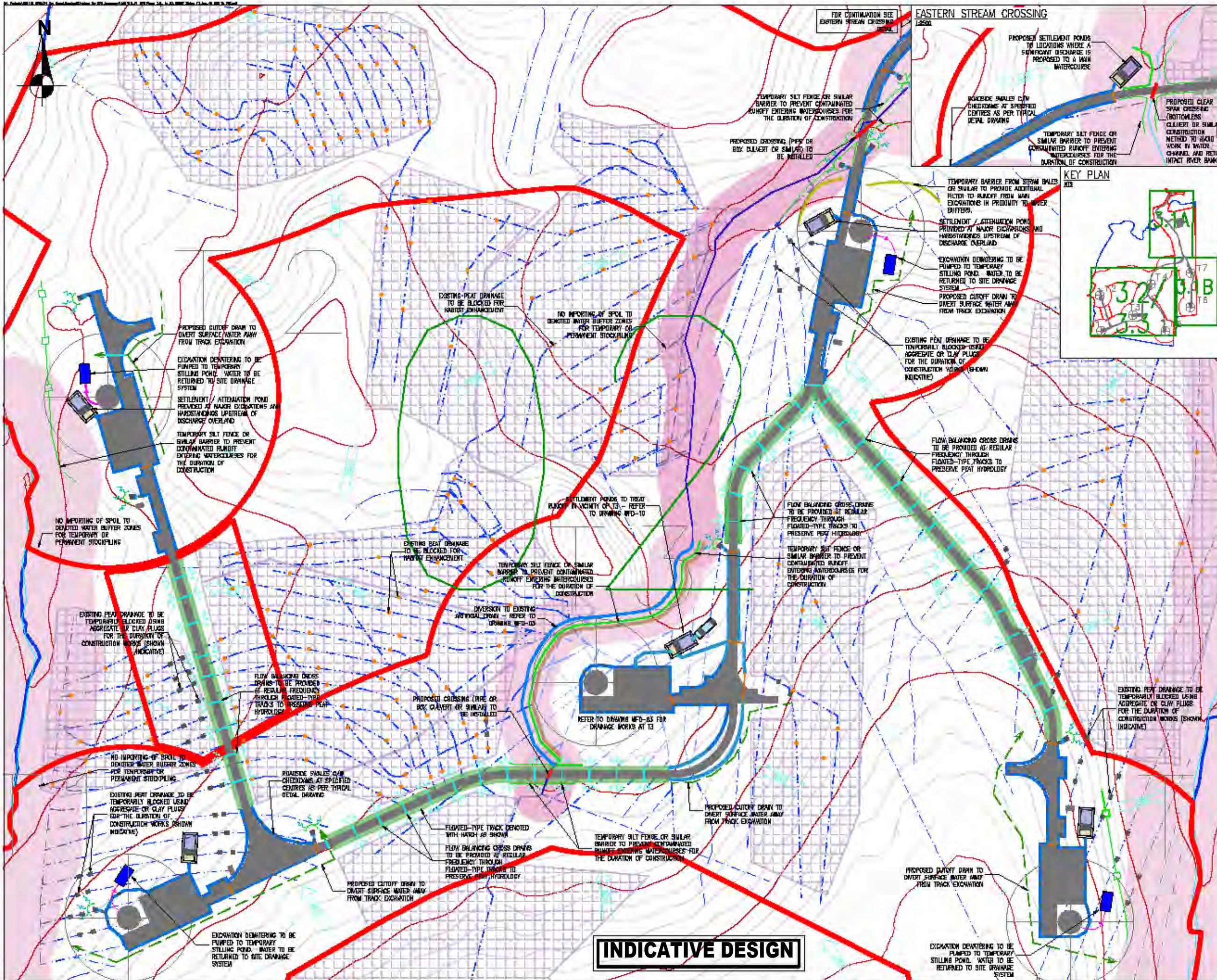
CLIENT **res**

DRAWING TITLE  
**DRAINAGE MANAGEMENT (SuDS) FOR WFD ASSESSMENT  
SITE DRAINAGE PLAN - OVERVIEW**

SCALE	PURPOSE	DRAWING No.	ISSUE No.
1:4000	WFD	FIG 3.0	1

Mossey Mill, Lower Ground (West), Carronee Road North, Newtownabbey BT36 5QR





**DRAWING**  
 1. Drawing number: 02381D1004-04  
 2. Date: 17/04/2014  
 3. Scale: 1:2500

**NOTES**

1. All drainage layout shown is indicative for planning purposes only and is intended to be detailed post-approval. Changes between drawings are subject to design development and shall be indicated by red lines on the drawing.
2. All drainage layout shown is indicative for planning purposes only and is intended to be detailed post-approval. Changes between drawings are subject to design development and shall be indicated by red lines on the drawing.
3. The level of all to be constructed drainage is to be confirmed and approved by the relevant authority. It is to be confirmed that the proposed drainage is to be constructed to the required standards and specifications for the duration of construction.
4. All drainage layout shown is indicative for planning purposes only and is intended to be detailed post-approval. Changes between drawings are subject to design development and shall be indicated by red lines on the drawing.
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10. All drainage layout shown is indicative for planning purposes only and is intended to be detailed post-approval. Changes between drawings are subject to design development and shall be indicated by red lines on the drawing.
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20. All drainage layout shown is indicative for planning purposes only and is intended to be detailed post-approval. Changes between drawings are subject to design development and shall be indicated by red lines on the drawing.

**LEGEND**

- Flashed track including concrete
- Undertrack drainage (Construction Phase)
- Undertrack drainage (Natural Runoff)
- Watercourse crossing
- Drainage Sink / Inclusive Baseline & Catch Drain
- Natural Runoff Cut-off Drain
- Silt Fence
- Settlement Pond
- Temporary Waterway Pit
- 5m Buffer to Watercourse / 20m Buffer to Drain

**MAP KEY**

- 5m Boundary
- Watercourse
- Drain
- Edge-of-field Drain / Field Drain
- Reduction Equipment Drain / Field Drain
- Natural Overland Flow Direction
- Habitat Enhancement Area
- Habitat Improvement - Perennial Drain
- BlueWay

Alternative Layout 02381D1004-04

NO.	REV.	DATE	BY	DESCRIPTION
3	001	17/04/2014	RES	FOR WFD ASSESSMENT
2	001	12/04/2014	RES	FOR WFD ASSESSMENT
1	001	12/04/2014	RES	FOR WFD ASSESSMENT

**FOR WFD ASSESSMENT**

**M'Cloy Consulting**

028 9084 8004  
 028 9084 1525  
 info@mccloyconsulting.com  
 www.mccloyconsulting.com

Moody Mill, Lower Ground (West), Carronee Road North, Newrytown BT36 5QJ

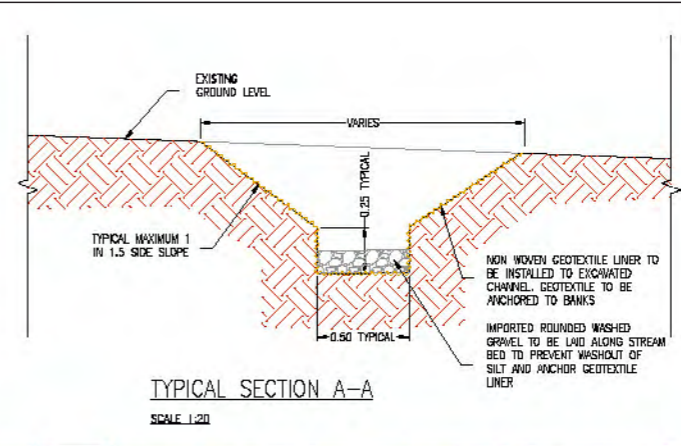
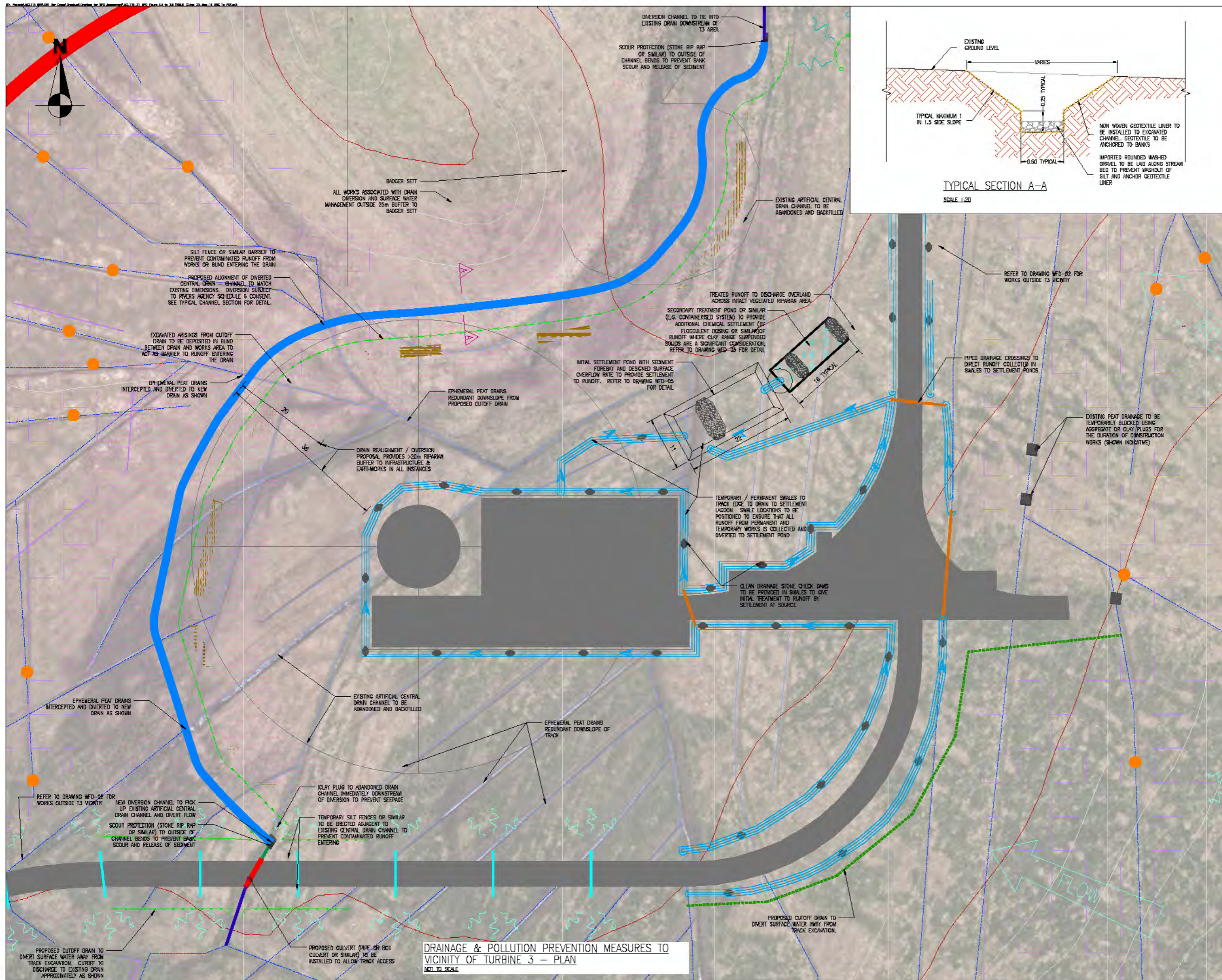
**PROPOSED WIND FARM AT BARR CREGG, CO. DERRY**

**res**

**DRAINAGE MANAGEMENT (SuDS) FOR WFD ASSESSMENT SITE DRAINAGE PLAN\_02**

1:2500 A3

MCL115-21 WFD FIG 3.2 3



- PRECEDENCE**  
1. DRAWING SUPERCEDES PREVIOUS FEI FIGURE 13.7.
- CONSTRUCTION METHODOLOGY**
- THE WATERCOURSE CHANNEL ALIGNMENT HAS BEEN DESIGNED TO MAXIMISE THE DISTANCE BETWEEN SOURCES OF POLLUTION IN ORDER TO PROVIDE THE GREATEST POSSIBLE RIPARIAN BUFFER ZONE IN LIEU OF OTHER FIXED CONSTRAINTS.
  - SCOUR PROTECTION (RIP RAP OR SIMILAR) IS TO BE PROVIDED AT BENDS AS SHOWN.
  - TEMPORARY SCOUR PROTECTION (GEOTEXTILE LINER) IS TO BE PROVIDED TO THE EXCAVATED CHANNEL TO MINIMISE WASHOUT OF SILTS. TEMPORARY MEASURES CAN BE REMOVED WHEN CHANNEL IS VEGETATED.
  - NEW CHANNEL IS TO BE EXCAVATED FROM THE LOW POINT IN AN UPGRADIENT DIRECTION I.E. FROM NORTH TO SOUTH.
  - WATER WILL NOT BE PERMITTED TO ENTER THE NEW CHANNEL UNTIL ALL TEMP. AND PERM. SCOUR PROTECTION HAS BEEN INSTALLED.
  - IMPORTED ROUNDED WASHED GRAVEL TO BE PLACED IN THE CHANNEL BED TO MINIMISE WASHOUT OF SILTS AND ANCHOR GEOTEXTILE.

- SuDS KEY**
- Flashed track balancing crossdrain
  - Undertrack drainage (Construction Runoff)
  - Undertrack drainage (Natural Runoff)
  - Watercourse crossing
  - Drainage Swale / Indicative Breakout & Check Dam
  - Natural Runoff Cut-off Ditch
  - Silt Fence
  - Settlement Pond
  - Temporary Washout Pit
  - 50m Buffer La Watercourse / 20m Buffer to Drain
- MAP KEY**
- Site Boundary
  - Watercourse
  - Drain
  - Ephemeral Ditch / Field Drain
  - Redundant Ephemeral Ditch / Field Drain
  - Natural Overland Flow Directions
  - Habitat Enhancement Area
  - Habitat Improvement - Permanent Drain Blocking

NOTE: THIS DRAWING IS BASED ON 3RD PARTY INFRASTRUCTURE / PROPOSAL DRAWING  
Alternative Layout 02381D1004-04

2	DIS	DIS	17/04/2018	FOR 2018 FEB SUBMISSION
1	VR	DIS	27/04/2018	FOR INFORMATION / APPROVAL
NO.	DIS	APP	DATE	NOTES / DESCRIPTION

FOR WFD ASSESSMENT

**McClay Consulting**

11, CASHMERE ROAD  
PO BOX 1004  
DERRY, CO. DERRY  
NI 48 00000  
www.mccloyconsulting.com

Monday - Friday  
9.00am - 5.00pm  
Charterparty Road North  
Derry, Co. Derry  
BT48 7JH

PROPOSED WIND FARM AT BARR CREGG, CO. DERRY

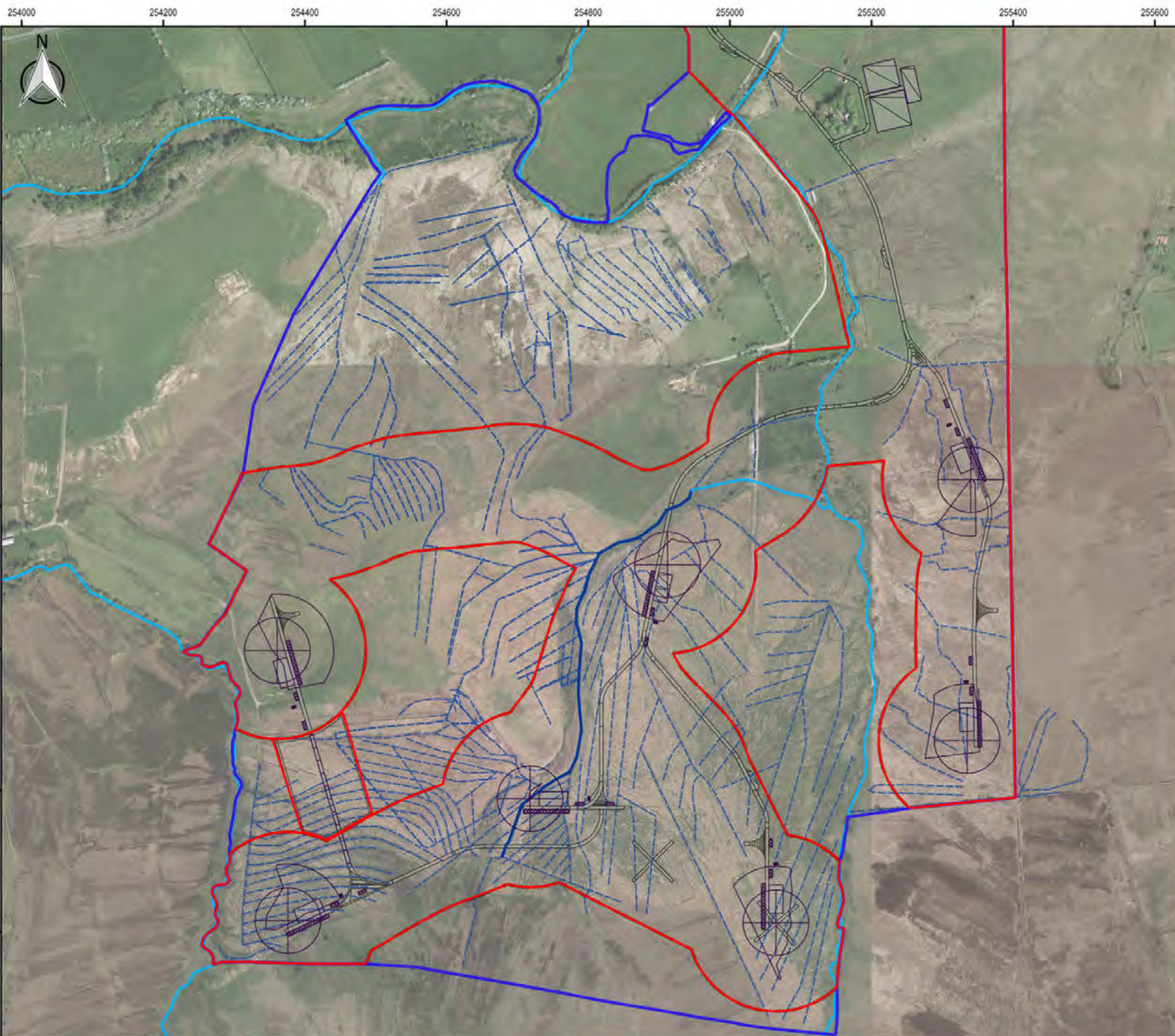


**DRAINAGE MANAGEMENT (SuDS) FOR WFD DRAINAGE AT T3 & VICINITY PRELIMINARY LAYOUT FOR PLANNING**

SCALE	AS SHOWN	GRID REFERENCE	A3
PROJECT NO.	MCL115-21	PLANNING	FIG 3.4
DATE	WFD	NO. OF SHEETS	2

**DRAINAGE & POLLUTION PREVENTION MEASURES TO VICINITY OF TURBINE 3 - PLAN**  
NOT TO SCALE





**BARR CREGG  
WIND FARM**

**FIGURE 3.13**

**ALTERNATIVE INFRASTRUCTURE  
AND SITE HYDROLOGY**

- ▭ Planning Application Boundary
- ▭ Land Under Applicant Control
- Proposed Infrastructure

- Feature**
- Significant Watercourses  
(Verified by Ground Truthing)
  - Main Drain  
As per Built Information  
(Verified by Ground Truthing)
  - - - Minor Ephemeral Land  
Drainage  
As per Built Information  
and Aerial Photography  
and Site Observations

THIS FIGURE SUPERSEDES PREVIOUSLY SUBMITTED FIGURE 13.3 SUBMITTED WITH FURTHER ENVIRONMENTAL INFORMATION 2014

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

**SCALE - 1:5000**

**FURTHER ENVIRONMENTAL  
INFORMATION 2018**

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**M<sup>c</sup>Cloy** Consulting

Mossley Mill  
Lower Ground (West)  
Carnmoney Road North  
Newtownabbey  
BT36 5QA

T: 028 9084 8694  
E: info@mcclloyconsulting.com  
w: www.mcclloyconsulting.com

**KEY**

- - - PLANNING APPLICATION BOUNDARY
- LAND UNDER APPLICANT CONTROL
- ⊕ TURBINE LOCATION
- PERMANENT CRANE HARDSTANDING AREA
- TEMPORARY CRANE HARDSTANDING AREA
- MICROSITING
- CUT OR FLOATED TRACK
- FLOATED TRACK
- EXCAVATED TRACK
- TEMPORARY PASSING BAY
- WATERCOURSE CROSSING
- ✕ METEOROLOGICAL CALIBRATION MAST LOCATION
- MINOR EPHEMERAL LAND DRAINAGE
- SIGNIFICANT WATERCOURSE
- MAIN DRAIN
- CONTROL BUILDING & SUBSTATION COMPOUND
- TEMPORARY CONSTRUCTION COMPOUND
- TEMPORARY ENABLING WORKS COMPOUND
- SPECIAL AREA OF CONSERVATION (SAC)

SURVEYORS



DRAWING NUMBER

COORDS **TM65 IRISH GRID**

PURPOSE **PLANNING APPEAL**

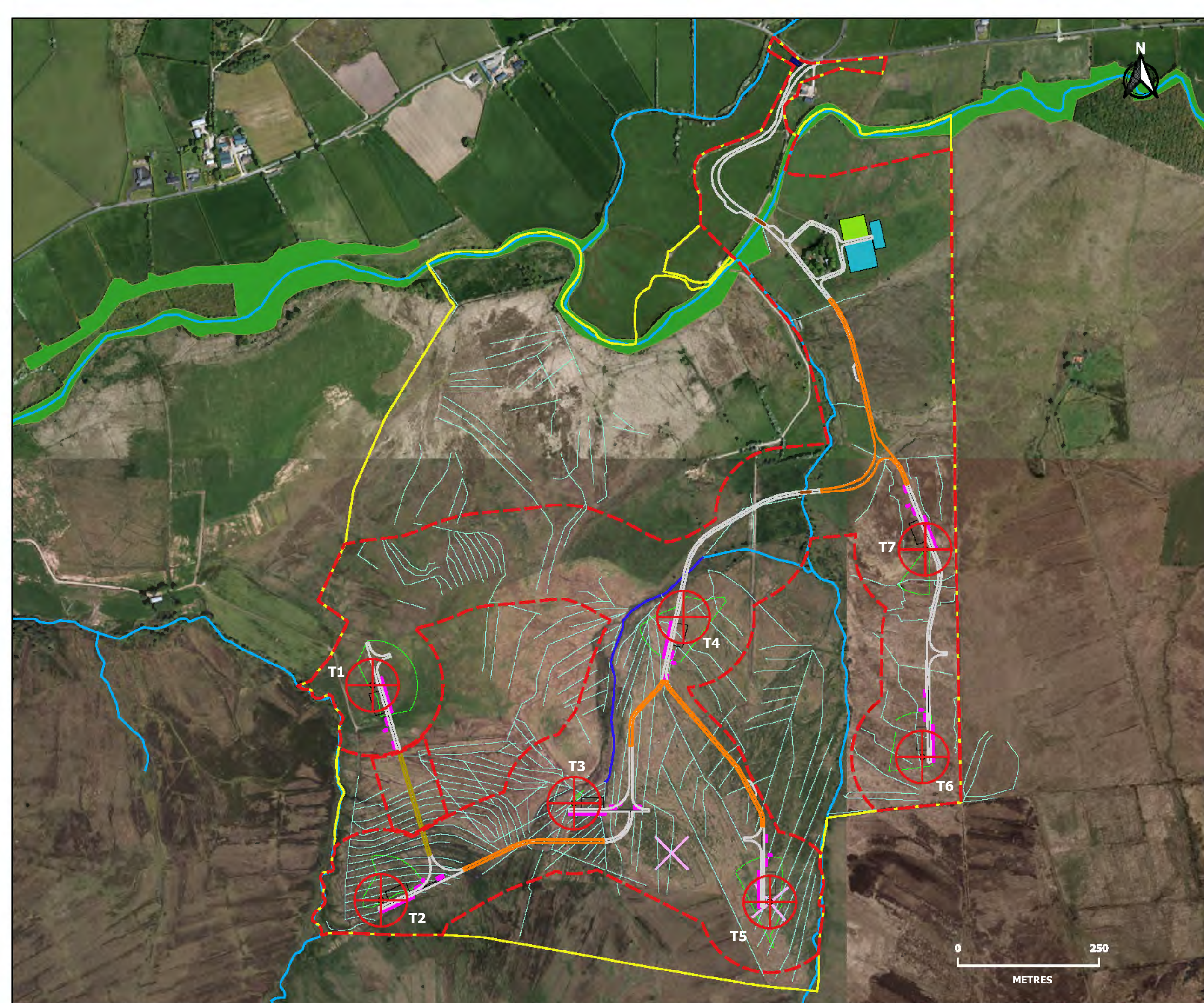
SCALE ORIGINAL PLOT SIZE **A3**





























PROJECT TITLE **BARR CREGG WIND FARM**

**FIGURE 4.1  
WATERCOURSES  
AND DRAINAGE DITCHES**

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- KEY**
-  PLANNING APPLICATION BOUNDARY
  -  LAND UNDER APPLICANT CONTROL
  -  TURBINE LOCATION
  -  PERMANENT CRANE HARDSTANDING AREA
  -  TEMPORARY CRANE HARDSTANDING AREA
  -  MICROSITING
  -  CUT OR FLOATED TRACK
  -  FLOATED TRACK
  -  EXCAVATED TRACK
  -  TEMPORARY PASSING BAY
  -  WATERCOURSE CROSSING
  -  METEOROLOGICAL CALIBRATION MAST LOCATION
  -  SIGNIFICANT WATERCOURSE
  -  M15
  -  M19
  -  M25
  -  WET NEUTRAL GRASSLAND
  -  MARSHY GRASSLAND
  -  SCRUB
  -  BROADLEAVED PLANTATION WOODLAND
  -  SEMI IMPROVED GRASSLAND
  -  IMPROVED GRASSLAND
  -  SPECIES RICH HEDGE WITH TREES
  -  SPECIES POOR INTACT HEDGE
  -  SPECIES POOR GAPPY HEDGE
  -  CONTROL BUILDING & SUBSTATION COMPOUND
  -  TEMPORARY CONSTRUCTION COMPOUND
  -  TEMPORARY ENABLING WORKS COMPOUND

SURVEYORS



DRAWING NUMBER

COORDS **TM65 IRISH GRID**

PURPOSE **PLANNING APPEAL**

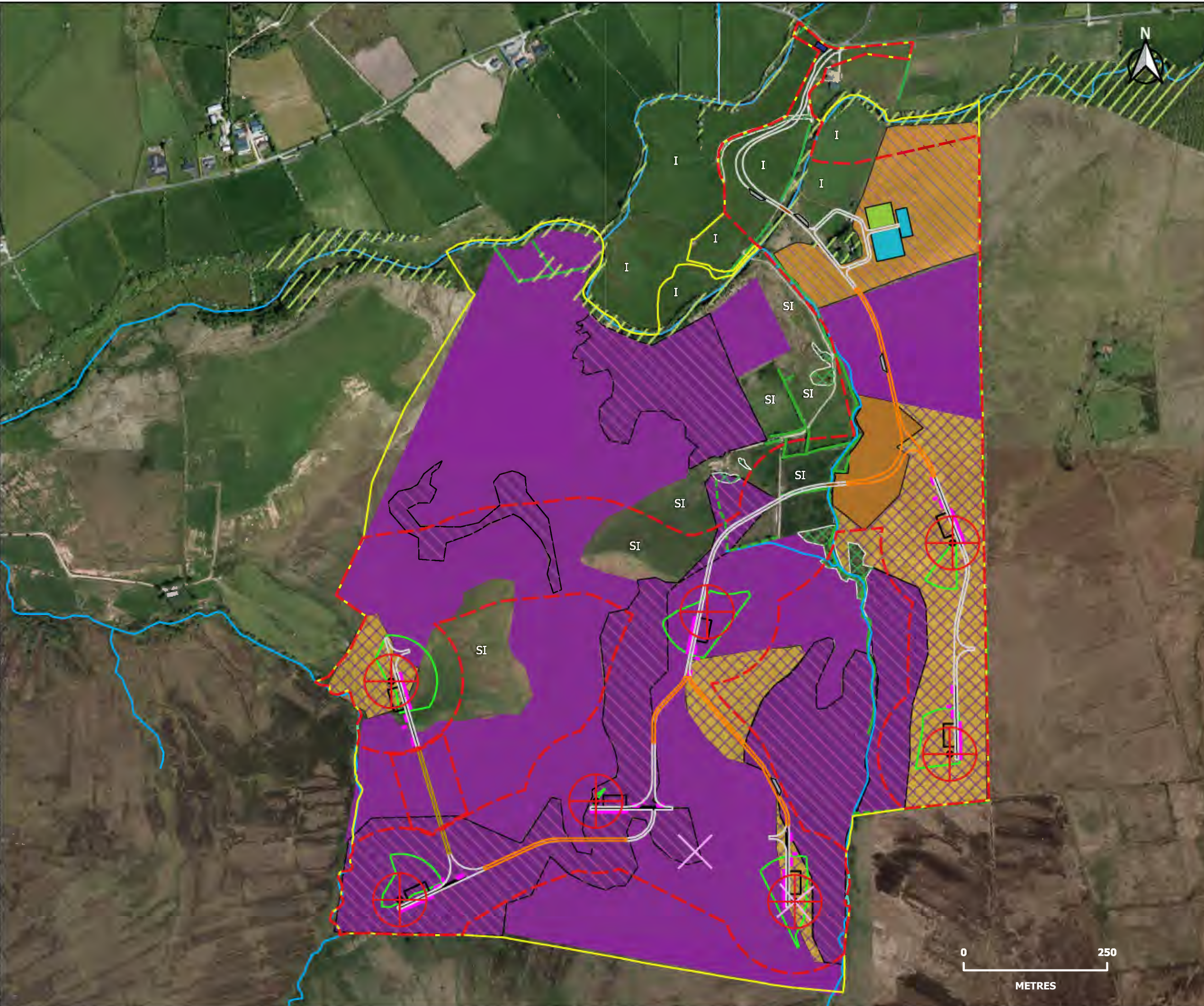
SCALE ORIGINAL PLOT SIZE **A3**

PROJECT TITLE **BARR CREGG WIND FARM**

**FIGURE 4.2  
PHASE 2 VEGETATION**

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**Enhancement Area Measurements (m<sup>2</sup>)**

Area A	4153
Area B	10718
Area C	34398
Area D	24956
Area E	32840
Area F	24182
Area G	12878
Area H	32162
Area I	23012
Area J	26107
Area K	15600
Area L	15004
Area M	13118
Area N	4953
Area O	23889
Area P	42295

- KEY**
- PLANNING APPLICATION BOUNDARY
  - LAND UNDER APPLICANT CONTROL
  - TURBINE LOCATION
  - PERMANENT CRANE HARDSTANDING AREA
  - TEMPORARY CRANE HARDSTANDING AREA
  - MICROSITING
  - CUT OR FLOATED TRACK
  - FLOATED TRACK
  - EXCAVATED TRACK
  - TEMPORARY PASSING BAY
  - WATERCOURSE CROSSING
  - METEOROLOGICAL CALIBRATION MAST LOCATION
  - MINOR EPHEMERAL LAND DRAINAGE
  - MAIN DRAIN
  - SIGNIFICANT WATERCOURSE
  - INDICATIVE LOCATION OF DITCH DAMMING
  - AREA RE-WETTED THROUGH DITCH BLOCKING (C & D)
  - AREA A & B
  - AREA E
  - AREA F
  - AREA G - P
  - CONTROL BUILDING & SUBSTATION COMPOUND
  - TEMPORARY CONSTRUCTION COMPOUND
  - TEMPORARY ENABLING WORKS COMPOUND

SURVEYORS



DRAWING NUMBER

COORDS **TM65 IRISH GRID**

PURPOSE **PLANNING APPEAL**

SCALE ORIGINAL PLOT SIZE **A3**

PROJECT TITLE **BARR CREGG WIND FARM**

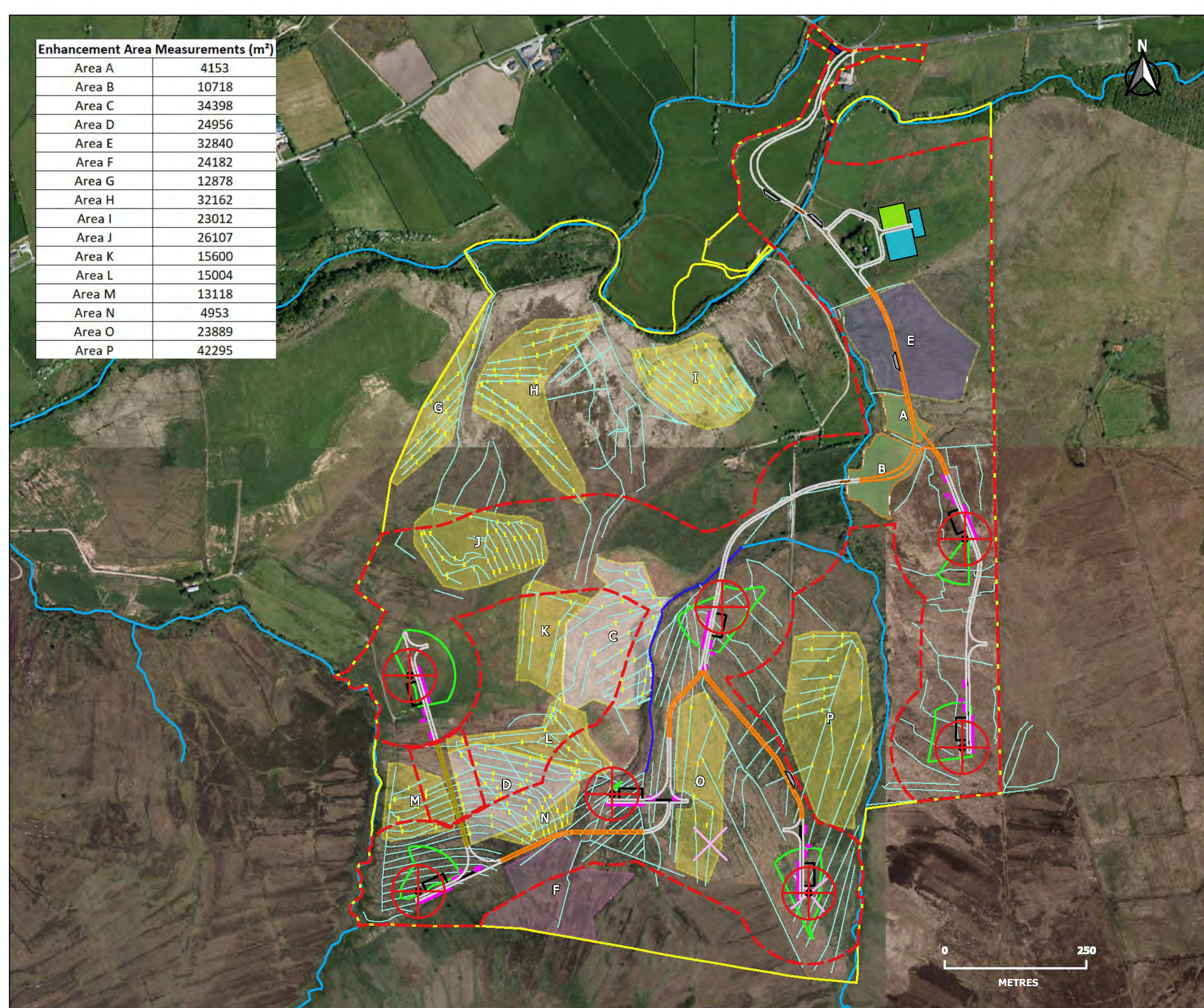
**FIGURE 4.3 HABITAT ENHANCEMENT**

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**RES**  
 BEAUFORT COURT, 6005 FARM LANE,  
 WINDS LANGLEY, HERTS SG14 5LR.  
 TEL: 444 01 1825 280000  
 FAX: 444 01 1825 280000



- KEY**
- - - PLANNING APPLICATION BOUNDARY
  - LAND UNDER APPLICANT CONTROL
  - POTENTIAL SPOIL DEPOSITION AREA
  - HYDROLOGICAL BUFFER
  - ⊕ TURBINE LOCATION
  - PERMANENT CRANE HARDSTANDING AREA
  - TEMPORARY CRANE HARDSTANDING AREA
  - ⊕ MICROSITING
  - CUT OR FLOATED TRACK
  - FLOATED TRACK
  - EXCAVATED TRACK
  - TEMPORARY PASSING BAY
  - WATERCOURSE CROSSING
  - × METEOROLOGICAL CALIBRATION MAST LOCATION
  - MAIN DRAIN
  - SIGNIFICANT WATERCOURSE
  - CONTROL BUILDING & SUBSTATION COMPOUND
  - TEMPORARY CONSTRUCTION COMPOUND
  - TEMPORARY ENABLING WORKS COMPOUND



DRAWING NUMBER

COORDS **TM65 IRISH GRID**

PURPOSE **PLANNING APPEAL**

SCALE ORIGINAL PLOT SIZE **A3**

PROJECT TITLE **BARR CREGG WIND FARM**

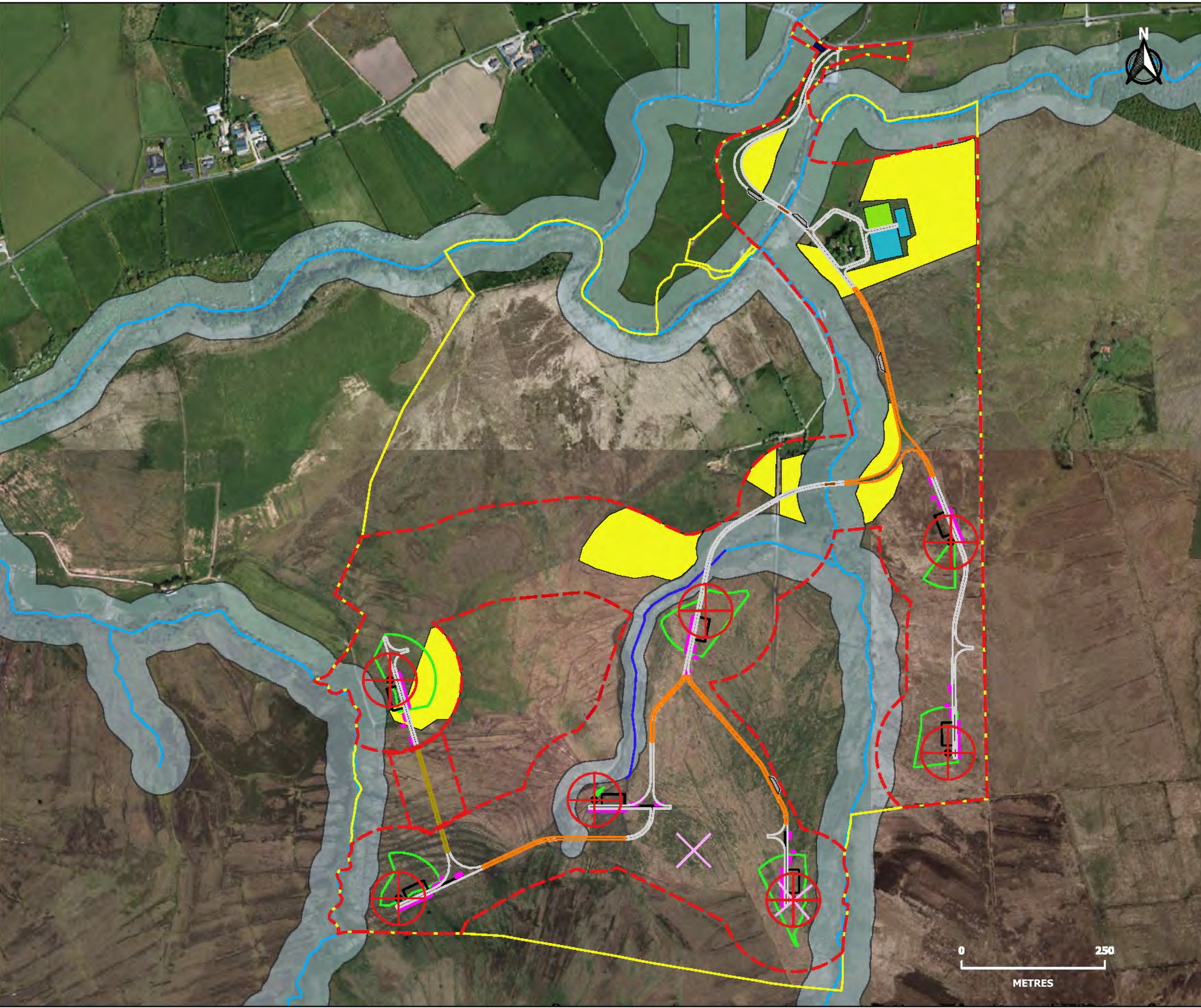
**FIGURE 4.4  
POTENTIAL(TEMPORARY) SPOIL  
STORAGE AREAS**

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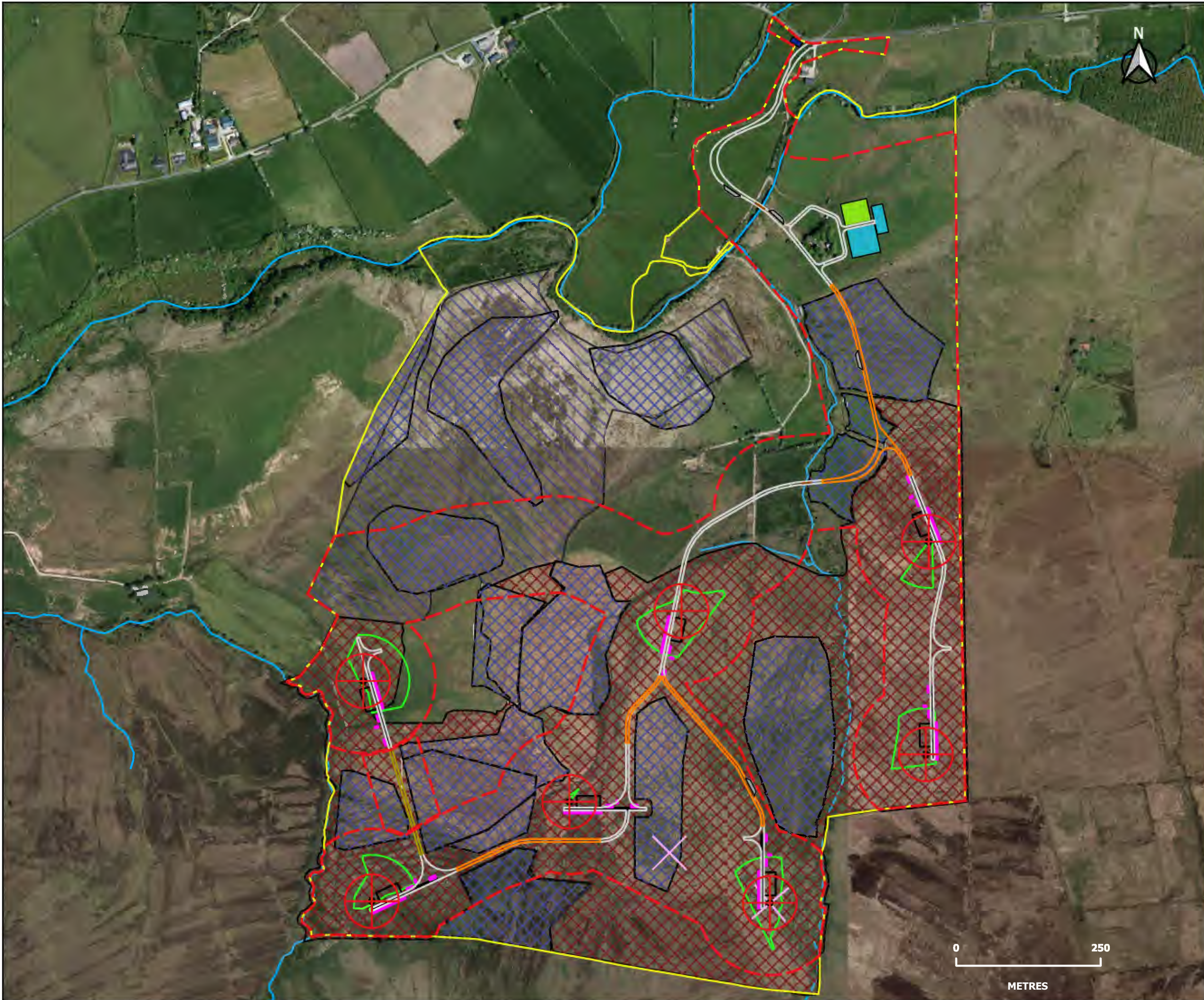
CLIENT



**RES**  
RENEWABLE ENERGY SYSTEMS LIMITED  
HEALTHCARE COURT, 800 PARKWAY,  
KINGS LANGLEY, HERTS WD4 8LR  
TEL: +44 (0) 1923 299200  
FAX: +44 (0) 1923 294299



0 250  
METRES



- KEY**
- - - PLANNING APPLICATION BOUNDARY
  - LAND UNDER APPLICANT CONTROL
  - TURBINE LOCATION
  - PERMANENT CRANE HARDSTANDING AREA
  - TEMPORARY CRANE HARDSTANDING AREA
  - MICROSITING
  - CUT OR FLOATED TRACK
  - FLOATED TRACK
  - EXCAVATED TRACK
  - TEMPORARY PASSING BAY
  - WATERCOURSE CROSSING
  - METEOROLOGICAL CALIBRATION MAST LOCATION
  - SIGNIFICANT WATERCOURSE
  - 0.075 LU (FROM YEAR 0) (22.1Ha)
  - 2 YEAR EXCLUSION 0.075 LU (YEAR 3 ONWARDS) (63.2Ha)
  - 5 YEAR EXCLUSION 0.075 LU (YEAR 6 ONWARDS) (13.1Ha)
  - CONTROL BUILDING & SUBSTATION COMPOUND
  - TEMPORARY CONSTRUCTION COMPOUND
  - TEMPORARY ENABLING WORKS COMPOUND

SURVEYORS

DRAWING NUMBER

COORDS **TM65 IRISH GRID**

PURPOSE **PLANNING APPEAL**

SCALE ORIGINAL PLOT SIZE **A3**

PROJECT TITLE **BARR CREGG WIND FARM**

**FIGURE 4.5  
GRAZING PRESCRIPTIONS**

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CLIENT

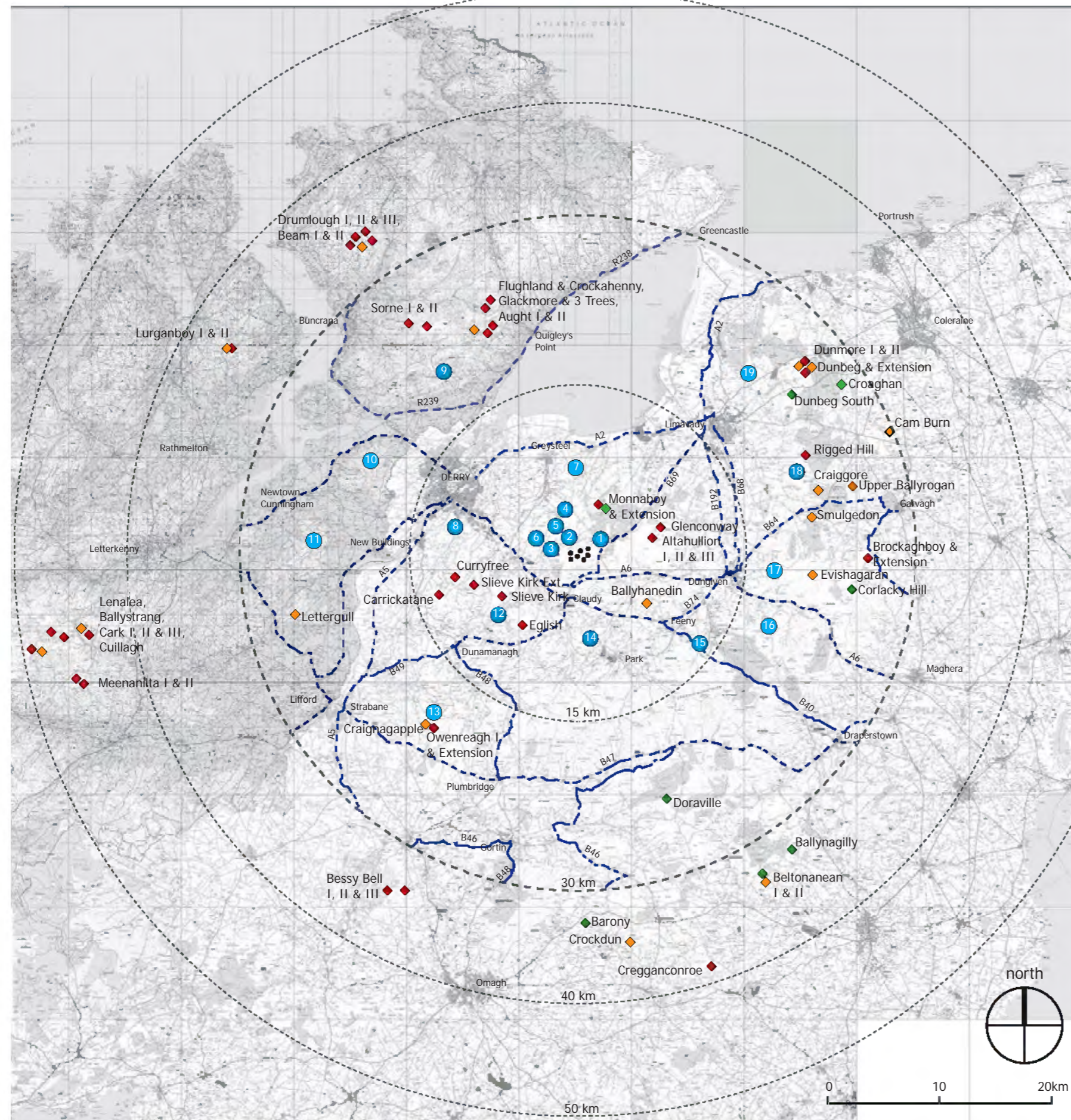




# BARR CREGG WIND FARM

## CUMULATIVE ASSESSMENT (updated)

### FIGURE 6.4



#### KEY

- Barr Cregg Wind Farm
- Viewpoint Location
- Existing wind farms shown in red
- Consented wind farms shown in orange
- Proposed wind farms shown in green
- Key Route within 30km Study Area

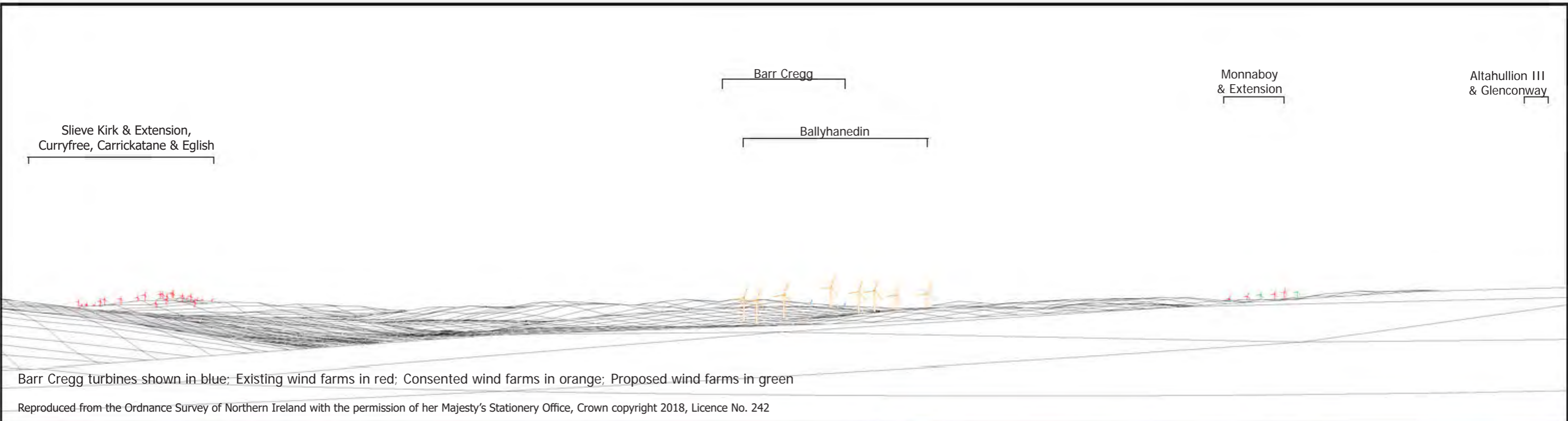
LAYOUT DWG: 02381D0001-10 T-LAYOUT NO: pNIRbr034

Shanti McAllister  
landscape planning and design

1:400,000 @ A3

PLANNING APPEAL 2018  
LANDSCAPE & VISUAL ASSESSMENT

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LAYOUT DWG	02381D0001-10	T-LAYOUT NO.	pNIRbrc034
<b>Shanti McAllister</b> landscape planning and design			
PLANNING APPEAL 2018 LANDSCAPE & VISUAL ASSESSMENT			
SMc	Aug. 2018	A3	D
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**BARR CREGG WIND FARM**

**VIEWPOINT 15**

**FIGURE 6.25**

**BANAGHER ROAD NEAR B40 SCENIC DRIVE**

**Easting: 266002**  
**Northing: 403224**

Bearing: 280.5°  
 Included Angle: 65°  
 Turbines: 80m hub, 90 m rotor, 125 m blade tip

Distance to nearest turbine: 13.5 km

View this image flat at a comfortable arms length

