

Appendix 1-1 – Application Drawings



CLOGHERCOR WIND FARM LTD.

**CLOGHERCOR
WIND FARM**

**PLANNING APPLICATION DRAWINGS
MARCH 2023**

TOBIN
CONSULTING ENGINEERS

CLOGHERCOR WIND FARM - PLANNING DRAWINGS

| SITE DRAWINGS | | ELECTRICAL DETAIL DRAWINGS | |
|---------------|--|----------------------------|---|
| 10798-2000 | Regional Site Location Map | 05725-DR-100 | Overall Site Location Map |
| 10798-2001 | Site Location Map - Sheet 1 of 2 | 05725-DR-101 | Site Layout (Sheet 1 of 2) |
| 10798-2002 | Site Location Map - Sheet 2 of 2 | 05725-DR-102 | Site Layout (Sheet 2 of 2) |
| 10798-2003 | Site Master Plan | | |
| 10798-2004 | Site Layout Plan - Sheet 1 of 3 | 05725-DR-107 | SW End Mast Detail |
| 10798-2005 | Site Layout Plan - Sheet 2 of 3 | 05725-DR-108 | 147A - 162A Sectional Views |
| 10798-2006 | Site Layout Plan - Sheet 3 of 3 | 05725-DR-109 | Tower 1491ET Earth Ring |
| | | 05725-DR-110 | Cloghercor SS Site Layout |
| 10798-2025 | Proposed Temporary Site Compound & Elevations | 05725-DR-111 | Cut and Fill Area Layout Plan |
| 10798-2026 | Turbine Hardstand Layout | 05725-DR-112 | Compound Sections Cut & Fill Areas |
| 10798-2027 | Turbine Details | 05725-DR-113 | Substation Compound Elevations & Sections |
| 10798-2028 | Road Construction Details | 05725-DR-114 | Gate & Fencing Details |
| 10798-2029 | Road Swales & Settlement Pond Details | 05725-DR-115 | Site Compound details & Access Road |
| 10798-2030 | Culvert Details | 05725-DR-116 | 18m Lightning Monopole |
| 10798-2031 | Met Mast Details | 05725-DR-117 | 23m Telecom pole |
| 10798-2032 | Proposed Self Contained Temporary Wheelwash System Details | 05725-DR-118 | EirGrid Control Building - Plan/Elevations/Sections |
| | | 05725-DR-119 | IPP Building - Plan/Elevations/Sections |
| 10798-2040 | Road Construction Type Locations | 05725-DR-120 | Typical Ducting Through Regional/Local Roads |
| 10798-2041 | Amenity Car Park Locations and Layout | 05725-DR-121 | Ducting through existing Floating Road in Peat |
| 10798-2042 | Vehicular Traffic Entrance details & Visibility Sightlines | 05725-DR-124 | Ditch/Drain Crossing Detail |
| 10798-2043 | Amenity Car Park Entrance details & Visibility Sightlines | 05725-DR-125 | Typical Comms Chamber Detail |
| | | 05725-DR-126 | Typical Link Box Chamber Detail |
| 10798-2050 | Proposed on Site Borrow Pit Details | 05725-DR-127 | Joint Bay Section Detail |
| 10798-2051 | TDR Areas Master Location Plan | 05725-DR-128 | Joint Bay Arrangement Detail |
| 10798-2052 | TDR Area 1 Layout Plan | 05725-DR-129 | Culvert/Service Crossing Detail |
| 10798-2053 | TDR Area 2 Layout Plan | 05725-DR-130 | Watermain Crossing Detail |
| 10798-2054 | TDR Area 3 Layout Plan | 05725-DR-131 | HDD Detail - Stream Crossing No.1 |
| 10798-2055 | TDR Area 4 Layout Plan | 05725-DR-132 | HDD Detail - Stream Crossing No.2 |
| 10798-2056 | TDR Area 5 Layout Plan | 05725-DR-133 | Typical Transition Chamber Detail |
| | | 05725-DR-134 | Substation Drainage details |
| 10798-2060 | Drainage Layout - Sheet 1 of 6 | 05725-DR-135 | Rainwater Harvesting Tank |
| 10798-2061 | Drainage Layout - Sheet 2 of 6 | 05725-DR-136 | Substation Layout Plan with Vehicle Tracking |
| 10798-2062 | Drainage Layout - Sheet 3 of 6 | | |
| 10798-2063 | Drainage Layout - Sheet 4 of 6 | | |
| 10798-2064 | Drainage Layout - Sheet 5 of 6 | | |
| 10798-2065 | Drainage Layout - Sheet 6 of 6 | | |
| | | | |
| 10798-2070 | Site Amenity / Recreation Plan | | |

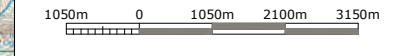


GENERAL LEGEND

| | |
|-------------------------------|--|
| PLANNING APPLICATION BOUNDARY | LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST |
| SITE NOTICE LOCATION | AREAS EXCLUDED FROM APPLICANT OWNERSHIP OR BENEFICIAL INTEREST |

- NOTES:**
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

OSI 1:50,000 Sheet No's: 1636, 1836, 1638, 1640, 1838 & 1840.
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| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

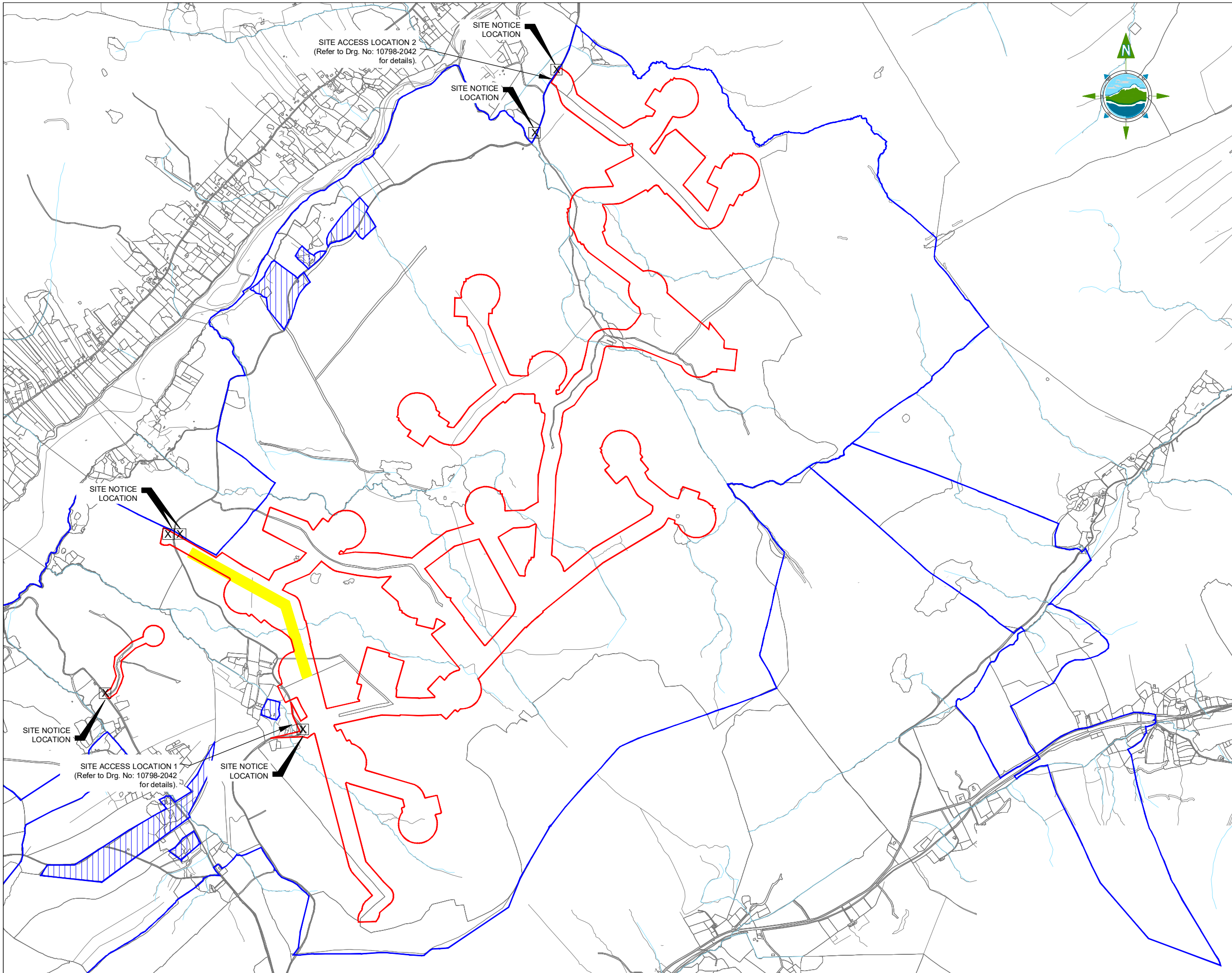
Project:
CLOGHERCOR WIND FARM

Title:
REGIONAL SITE LOCATION MAP

Scale @ A1: **1:55,000**
 Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

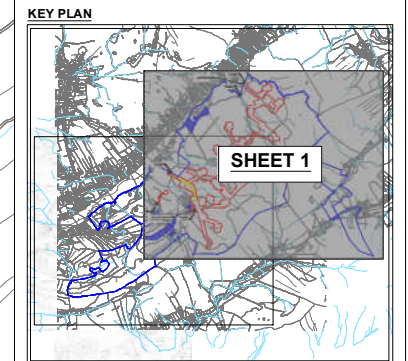
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 Drawing No.: **10798-2000** Revision: **A**



GENERAL LEGEND

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| PLANNING APPLICATION BOUNDARY | LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST |
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| RIVERS / STREAMS & WATERCOURSES | RIGHT OF WAYS |



- NOTES:**
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200m 0 200m 400m 600m

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| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
SITE LOCATION MAP - Sheet 1 of 2 -

Scale @ A1: **1:10,000** Scales as agreed with ABP 06.01.23

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

Project Director: **S. Tinnelly**

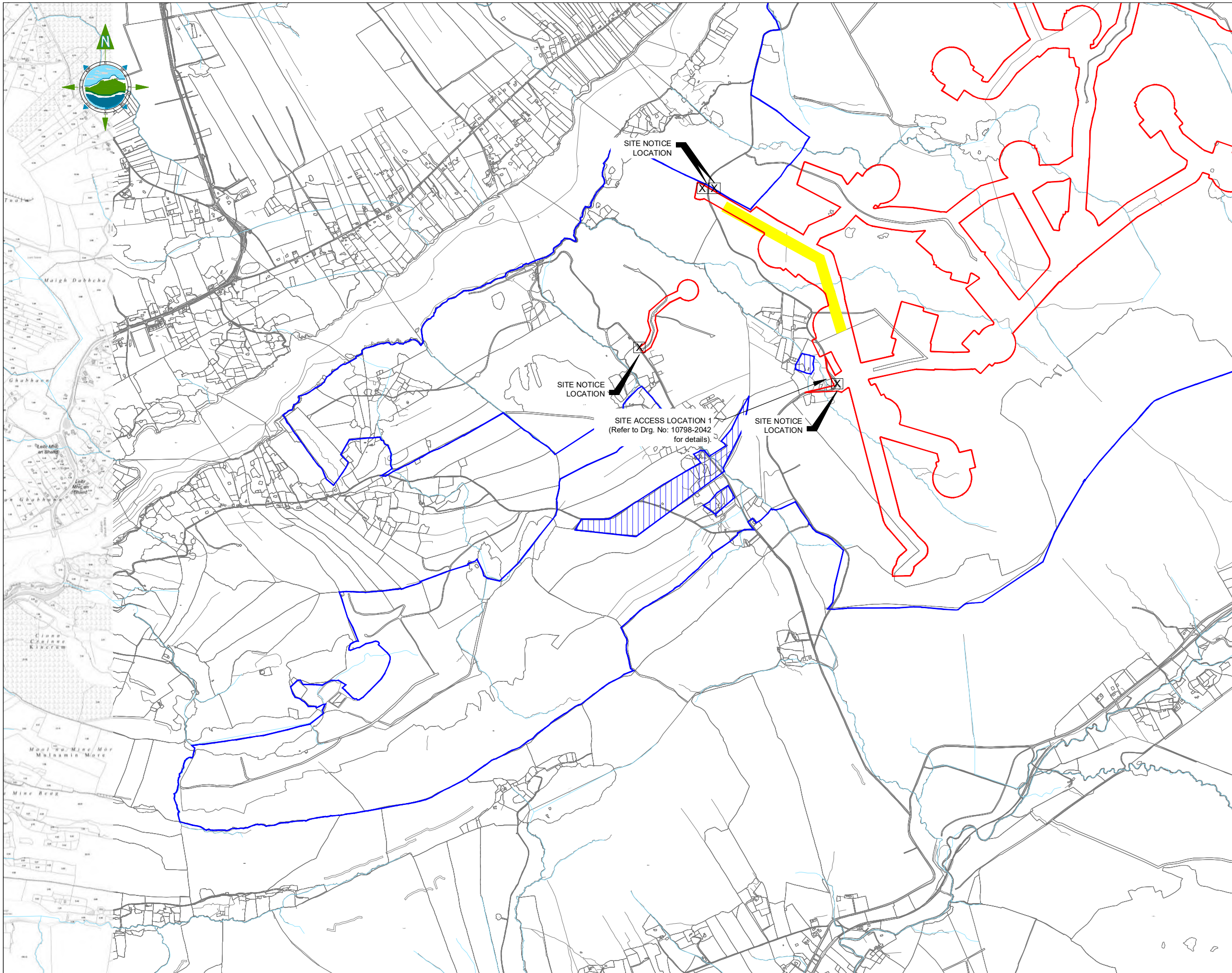
Drawing Status: **Planning**

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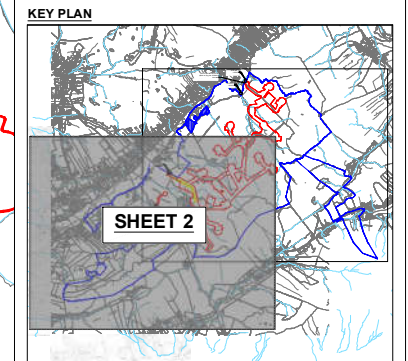
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Drawing No.: **10798-2001** Revision: **A**



GENERAL LEGEND

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|---------------------------------|--|
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| RIVERS / STREAMS & WATERCOURSES | RIGHT OF WAYS |



- NOTES:**
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

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200m 0 200m 400m 600m

| | | | | |
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| Rev | Date | Description | By | Chkd. |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
**SITE LOCATION MAP
- Sheet 2 of 2 -**

Scale @ A1: **1:10,000** Scales as agreed with ABP 06.01.23

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

Project Director: **S. Tinnelly**

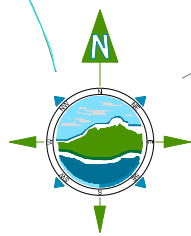
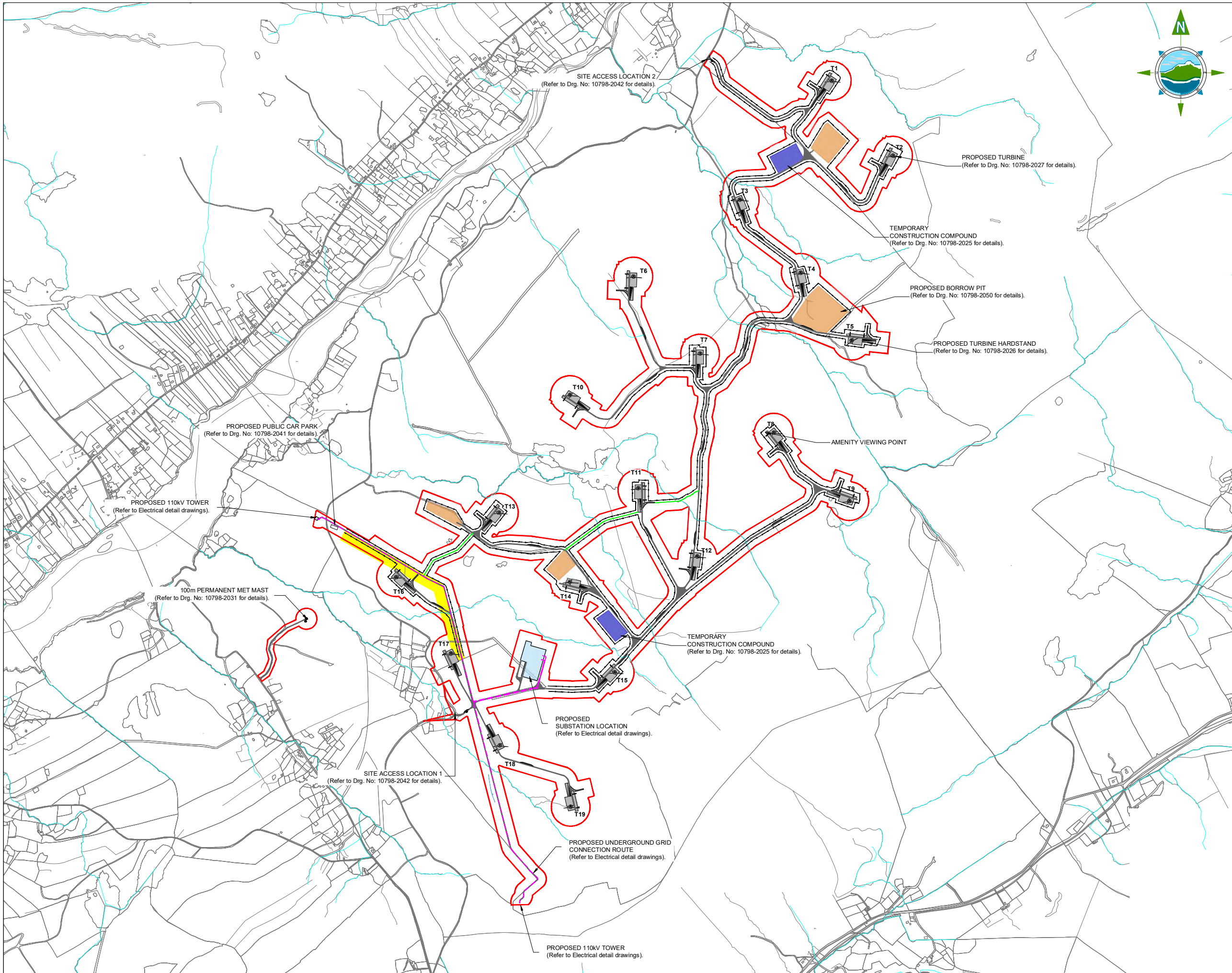
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Revision:
Drawing No.: **10798-2002 A**



GENERAL LEGEND

| | |
|--------------------------------------|--|
| PLANNING APPLICATION BOUNDARY | PROPOSED PERMANENT ACCESS ROAD |
| PROPOSED AMENITY WALKWAY | PROPOSED UNDERGROUND GRID CONNECTION ROUTE |
| PROPOSED 3m PERMANENT ACCESS TRACK | RIGHT OF WAYS |
| PROPOSED FENCE LINE | PROPOSED TURBINE HARDSTAND |
| PROPOSED TEMPORARY COMPOUND LOCATION | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED BORROW PIT LOCATION | PROPOSED TURBINE LOCATION |
| PROPOSED SUBSTATION LOCATION | |

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Client:
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Project:
CLOGHERCOR WIND FARM

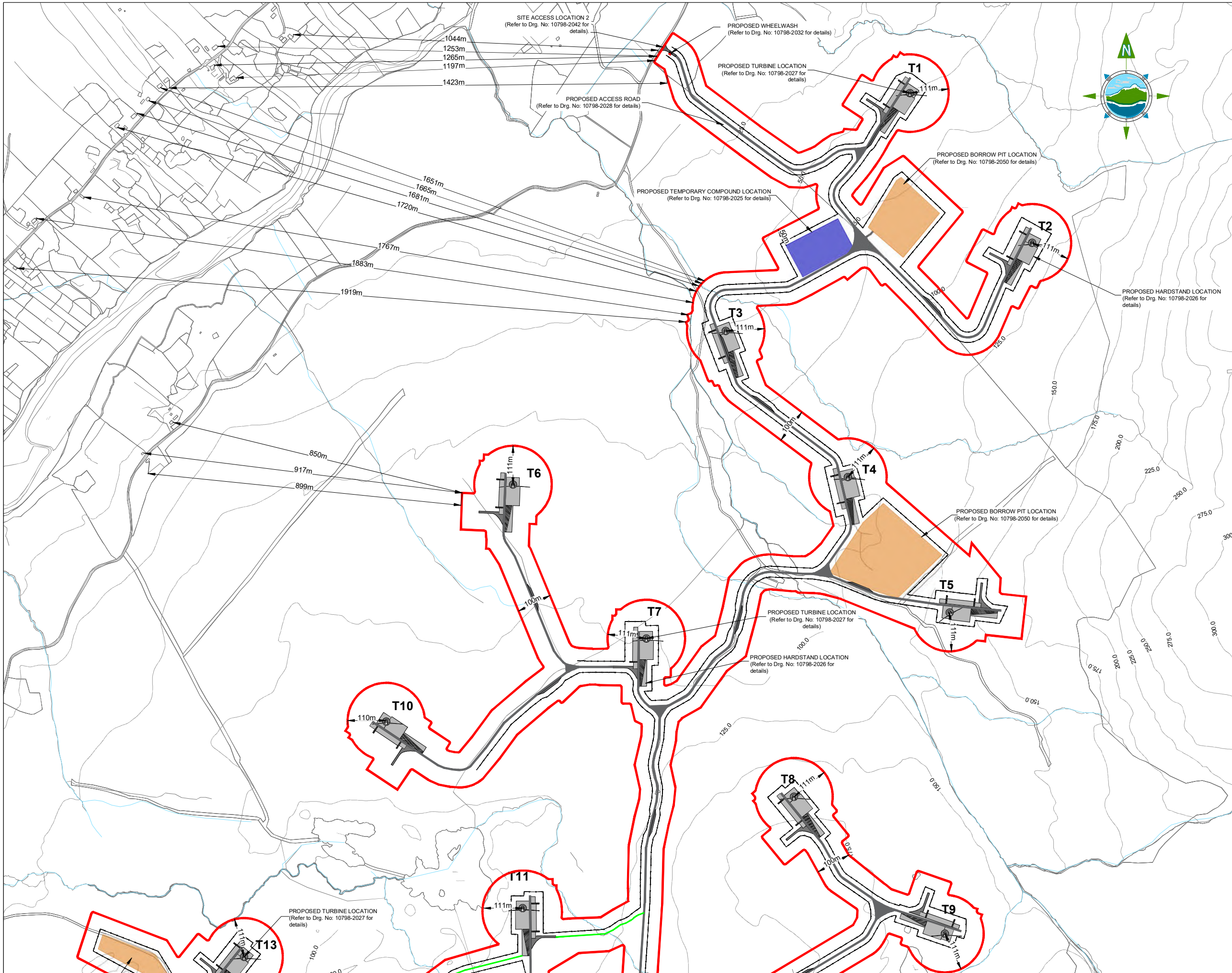
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SITE MASTER PLAN

Scale @ A1: **1:10,000**
 Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**
 Project Director: **S. Tinnelly**
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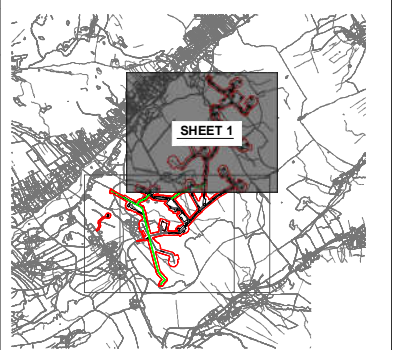
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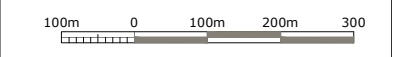


GENERAL LEGEND

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| PLANNING APPLICATION BOUNDARY | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED PERMANENT ACCESS ROAD | PROPOSED AMENITY WALKWAY |
| PROPOSED TURBINE HARDSTAND | PROPOSED TURBINE LOCATION |
| PROPOSED TEMPORARY COMPOUND LOCATION | PROPOSED SUBSTATION LOCATION |
| PROPOSED BORROW PIT LOCATION | PROPOSED UNDERGROUND CABLE ROUTE |
| RIGHT OF WAYS | PROPOSED FENCE LINE |



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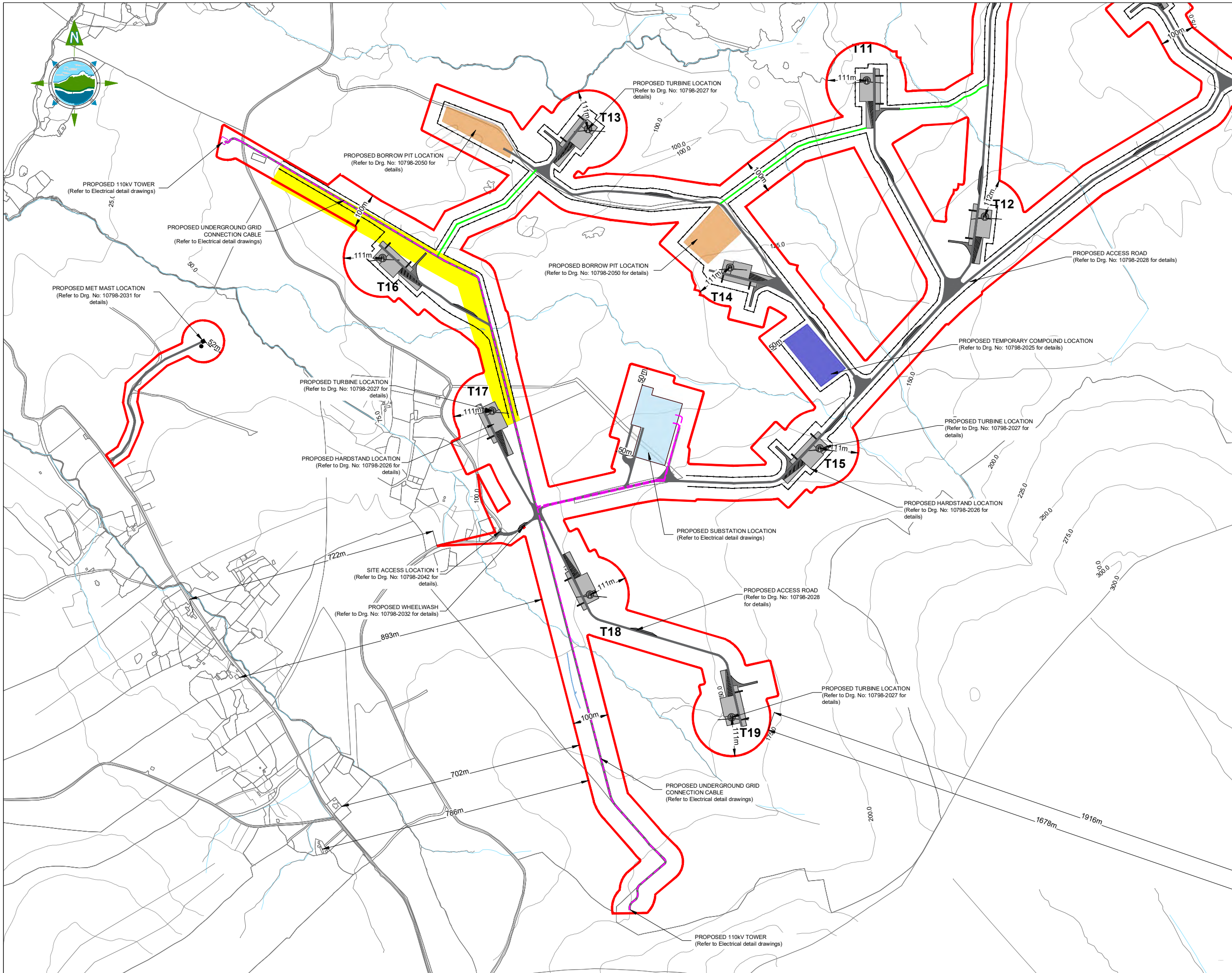
Project:
CLOGHERCOR WIND FARM

Title:
SITE LAYOUT PLAN - SHEET 1 OF 3 -

Scale @ A1: **1:5,000** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **December 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Draft**

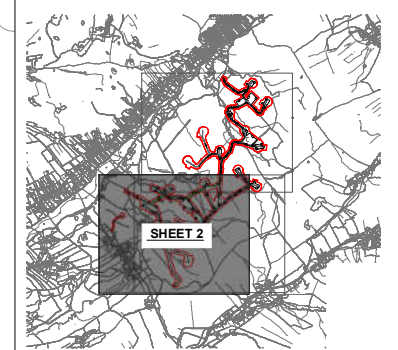
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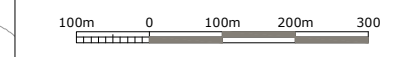


GENERAL LEGEND

| | |
|--------------------------------------|----------------------------------|
| PLANNING APPLICATION BOUNDARY | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED PERMANENT ACCESS ROAD | PROPOSED AMENITY WALKWAY |
| PROPOSED TURBINE HARDSTAND | PROPOSED TURBINE LOCATION |
| PROPOSED TEMPORARY COMPOUND LOCATION | PROPOSED SUBSTATION LOCATION |
| PROPOSED BORROW PIT LOCATION | PROPOSED UNDERGROUND CABLE ROUTE |
| RIGHT OF WAYS | PROPOSED FENCE LINE |



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Project:
CLOGHERCOR WIND FARM

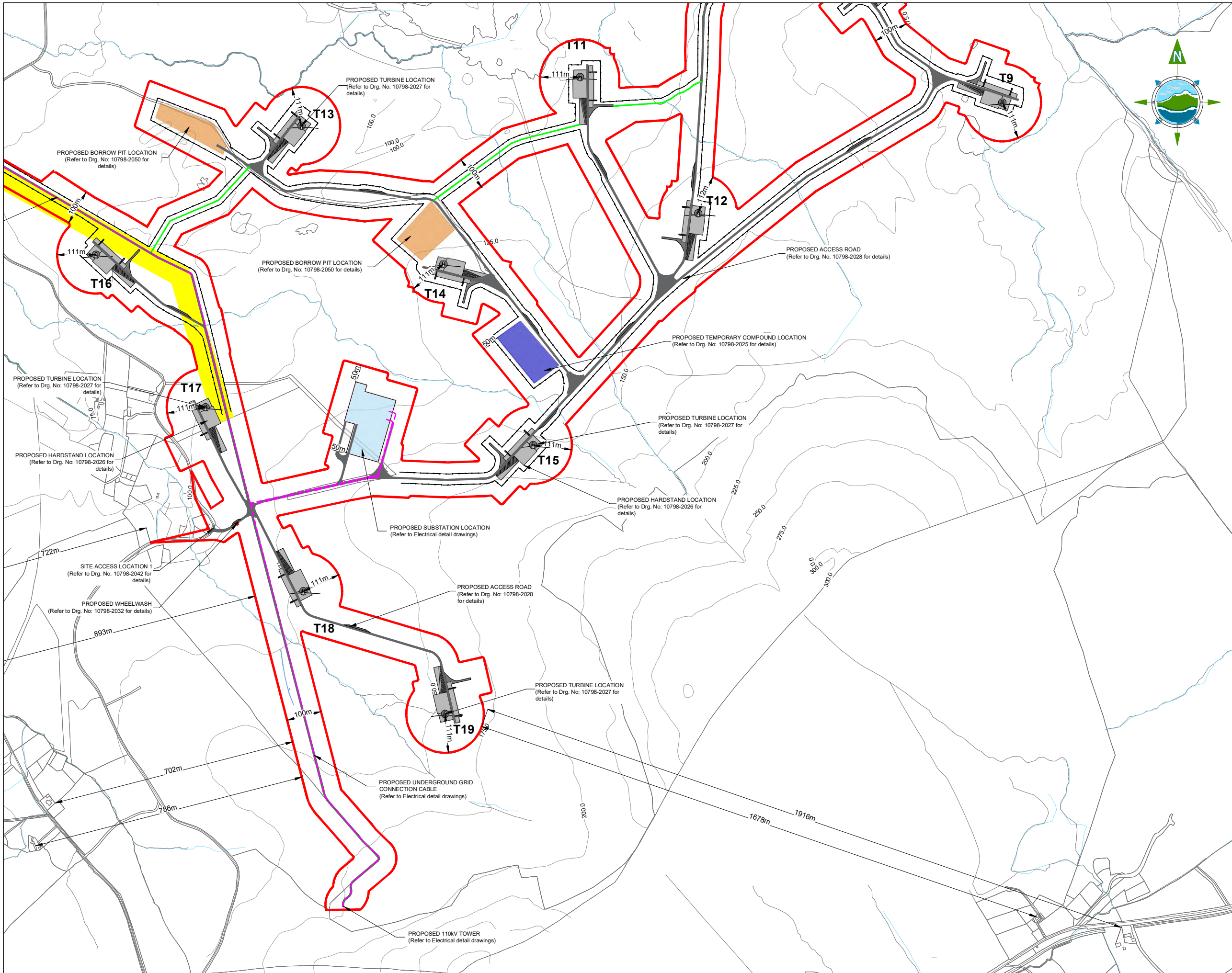
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Scale @ A1: **1:5,000** Scales as agreed with ABP 06.01.23
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 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

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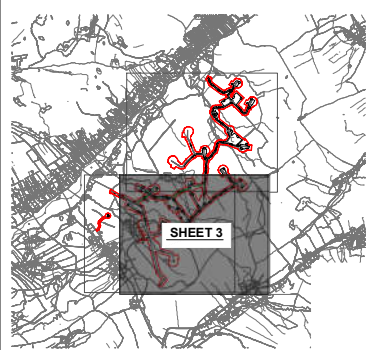
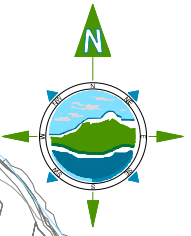
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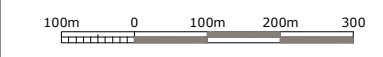


GENERAL LEGEND

| | |
|--------------------------------------|----------------------------------|
| PLANNING APPLICATION BOUNDARY | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED PERMANENT ACCESS ROAD | PROPOSED AMENITY WALKWAY |
| PROPOSED TURBINE HARDSTAND | PROPOSED TURBINE LOCATION |
| PROPOSED TEMPORARY COMPOUND LOCATION | PROPOSED SUBSTATION LOCATION |
| PROPOSED BORROW PIT LOCATION | PROPOSED UNDERGROUND CABLE ROUTE |
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Project:
CLOGHERCOR WIND FARM

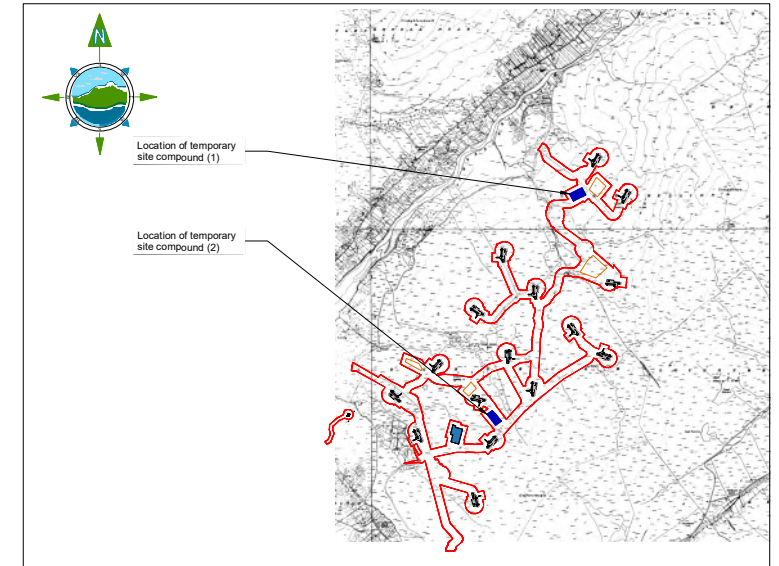
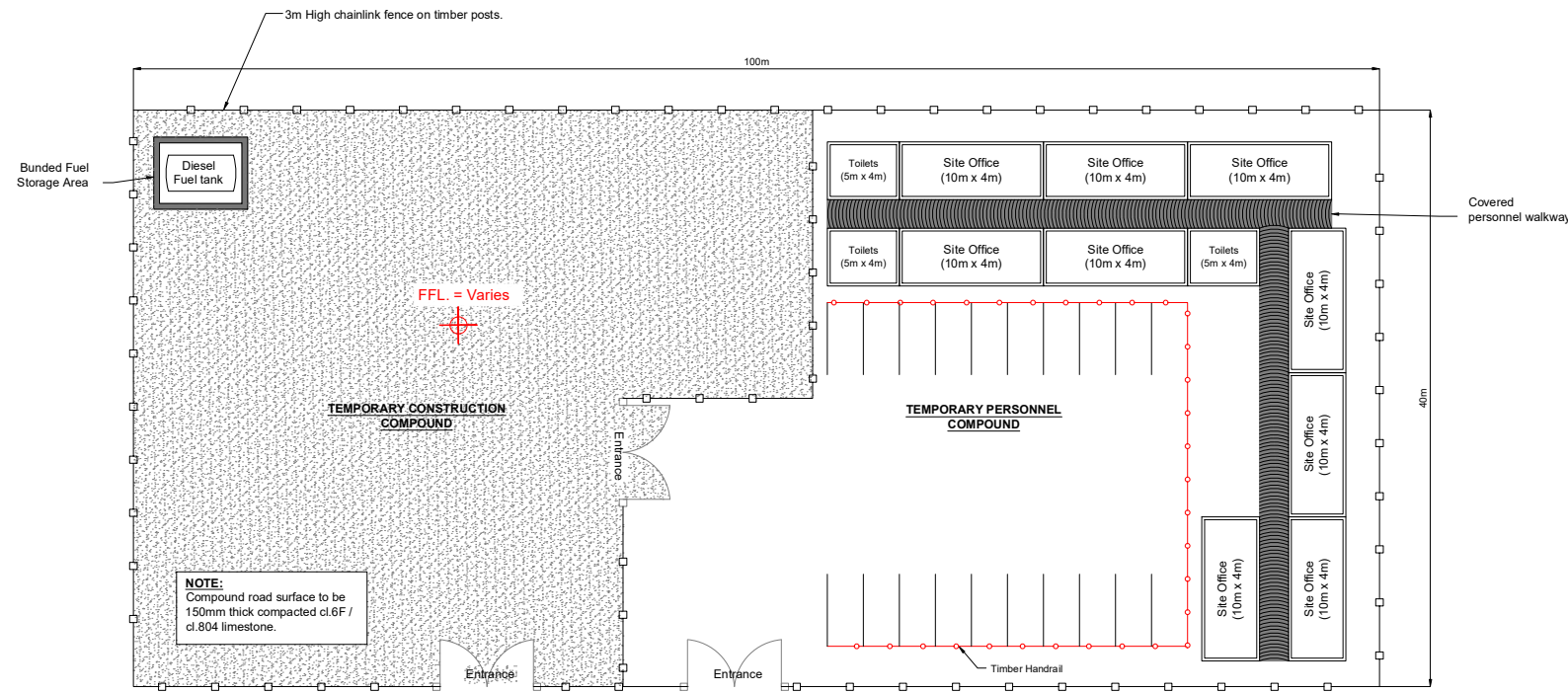
Title:
SITE LAYOUT PLAN - SHEET 3 OF 3 -

Scale @ A1: **1:5,000** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **December 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

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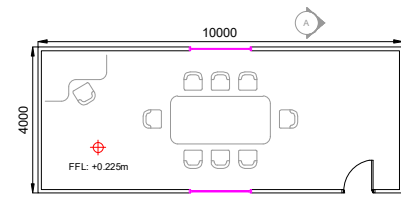
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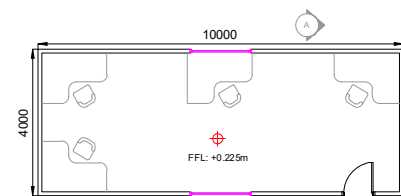


KEYPLAN
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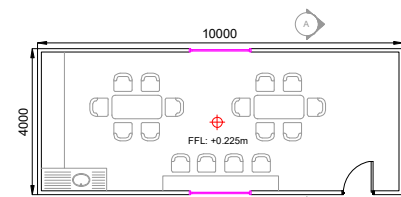
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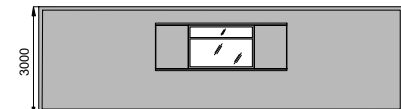
10m x 4m MEETING ROOM - FLOOR PLAN
SCALE 1:100



10m x 4m SITE OFFICE - FLOOR PLAN
SCALE 1:100



10m x 4m CANTEEN - FLOOR PLAN
SCALE 1:100



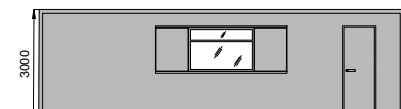
TYPICAL 10m x 4m UNIT - REAR ELEVATION
SCALE 1:100



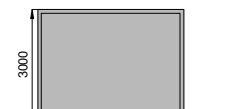
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SCALE 1:100



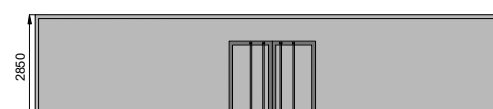
TYPICAL STORAGE UNIT - REAR ELEVATION
SCALE 1:100



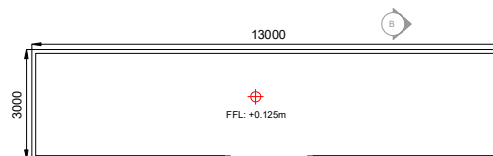
TYPICAL 10m x 4m UNIT - FRONT ELEVATION
SCALE 1:100



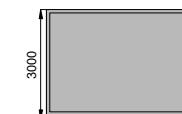
TYPICAL 10m x 4m UNIT - SIDE ELEVATION
SCALE 1:100



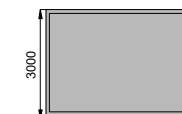
TYPICAL STORAGE UNIT - FRONT ELEVATION
SCALE 1:100



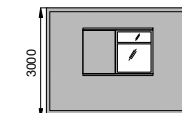
TYPICAL STORAGE UNIT - PLAN
SCALE 1:100



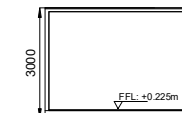
DRYING ROOM - SIDE ELEVATION
SCALE 1:100



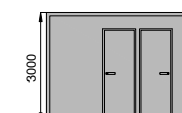
DRYING ROOM & TOILETS - REAR ELEVATION
SCALE 1:100



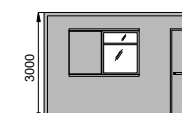
TOILETS - SIDE ELEVATION
SCALE 1:100



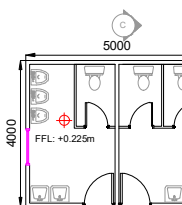
DRYING ROOM & TOILETS - SECTION C-C
SCALE 1:100



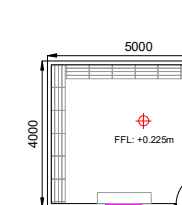
TOILETS - FRONT ELEVATION
SCALE 1:100



DRYING ROOM - FRONT ELEVATION
SCALE 1:100



TOILETS - FLOOR PLAN
SCALE 1:100



DRYING ROOM - FLOOR PLAN
SCALE 1:100

NOTE: Orientation varies as multiple instances on site, north point can be seen on Drg. No: 10798-2003.

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client: CLOGHERCOR WIND FARM LTD.

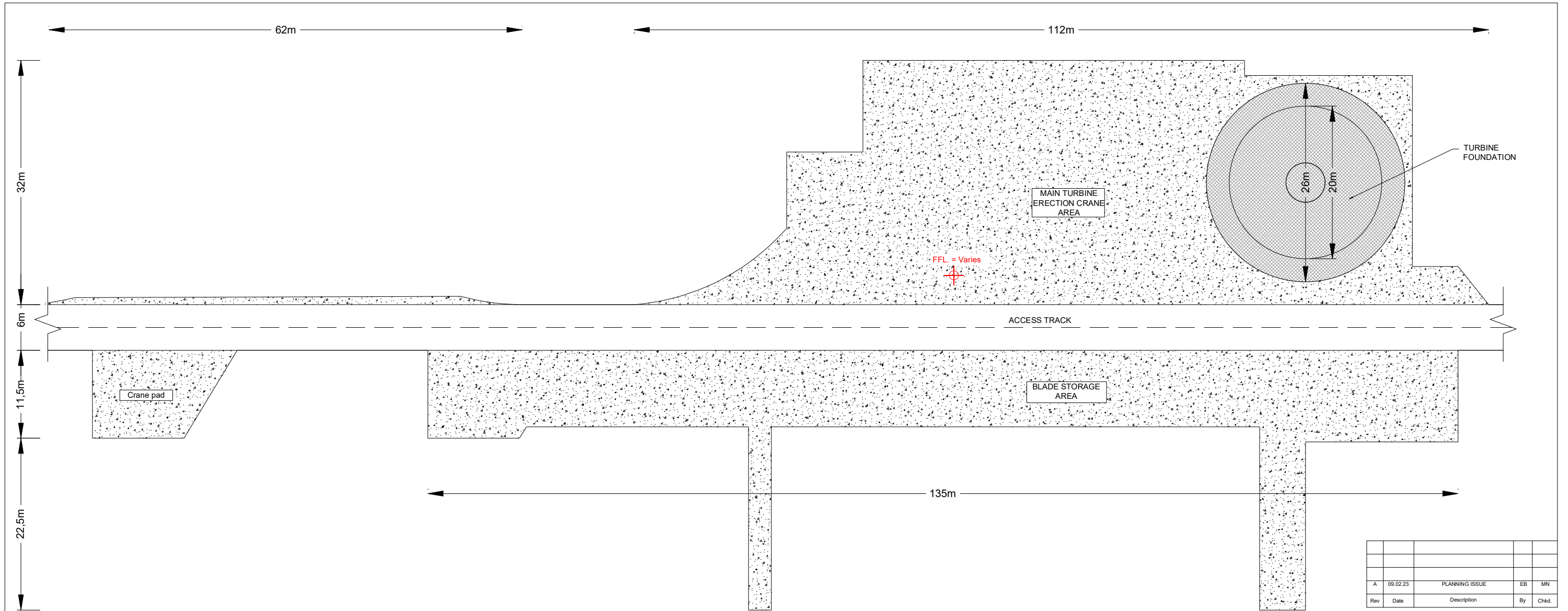
Project: CLOGHERCOR WIND FARM

Title: PROPOSED TEMPORARY SITE COMPOUND & ELEVATIONS

Scale @ A1: As Shown
 Prepared by: E. Beggs
 Checked: M. Nolan
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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 Drawing No.: 17098-2025
 Revision: A



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

NOTE:
Orientation varies as multiple instances on site,
north point can be seen on Drg. No: 10798-2003.

TURBINE HARDSTAND - LAYOUT PLAN
SCALE 1:250

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
TURBINE HARDSTAND LAYOUT

Scale @ A1: **1:250**

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

Project Director: **S. Tinnelly**

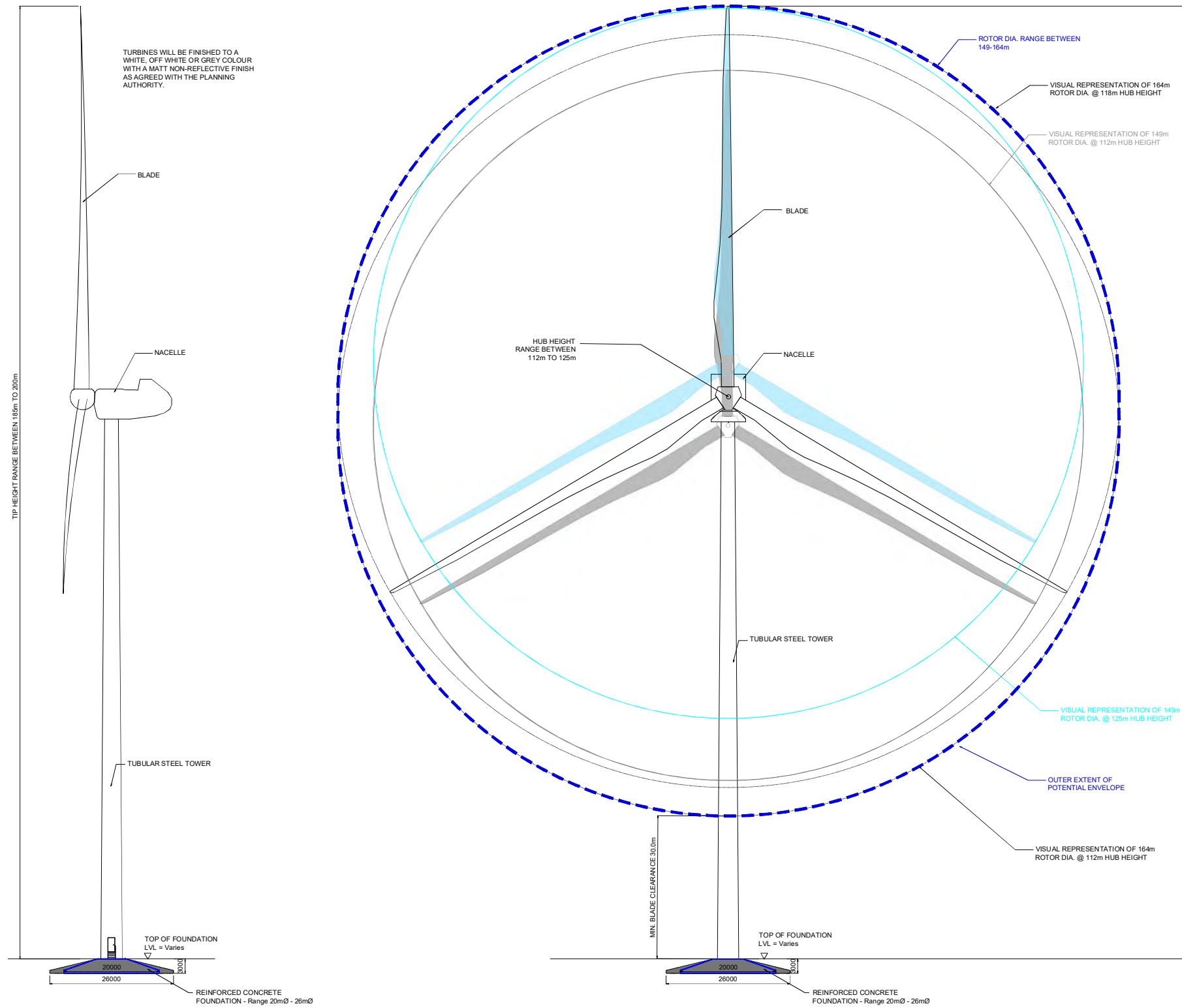
Drawing Status: **Planning**

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Drawing No.: **17098-2026** Revision: **A**



NOTE:
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| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
TURBINE DETAILS

Scale @ A1: **1:500**

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

Project Director: **S. Tinnelly**

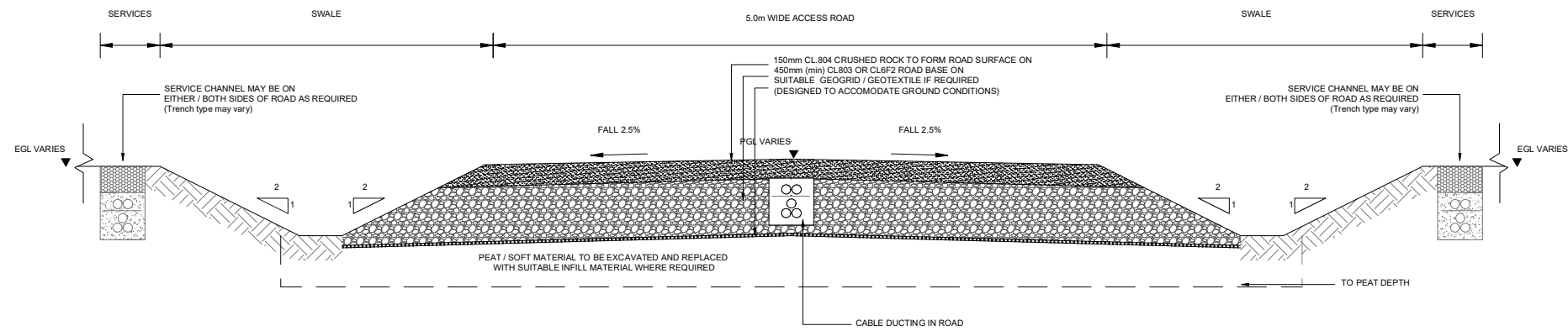
Drawing Status: **Planning**

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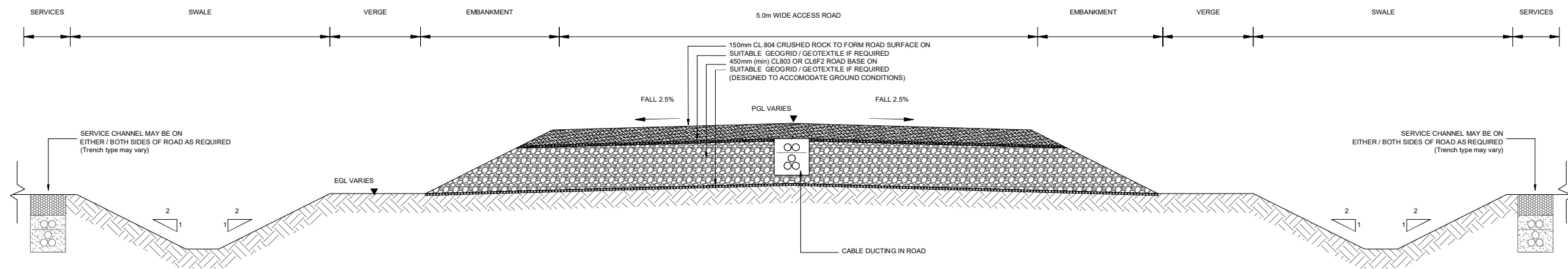
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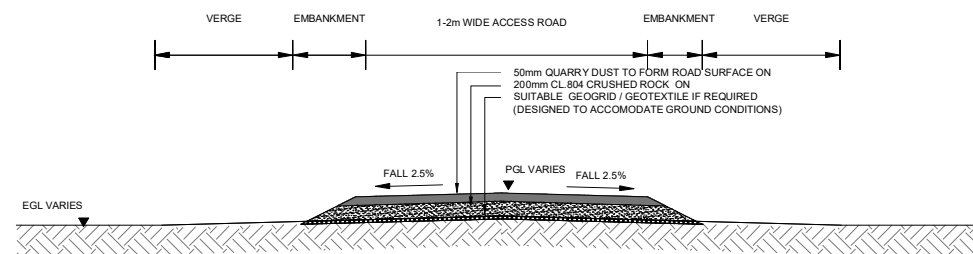
Drawing No.: **17098-2027** Revision: **A**



**TYPE 1 - 5.0m CONSTRUCTION TRAFFIC ACCESS ROAD
CROSS SECTION EXCAVATE & REPLACE**



**TYPE 2 - 5.0m CONSTRUCTION TRAFFIC ACCESS ROAD
CROSS SECTION FLOATING ROAD**



**TYPE 3 - 1 - 2m AMENITY ONLY ACCESS ROAD
CROSS SECTION FLOATING ROAD**

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
ROAD CONSTRUCTION DETAILS

Scale @ A1: **1:25**

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

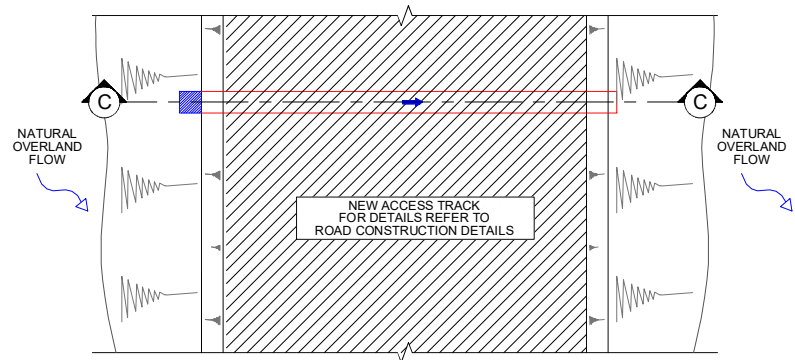
Project Director: **S. Tinnelly**

Drawing Status: **Planning**

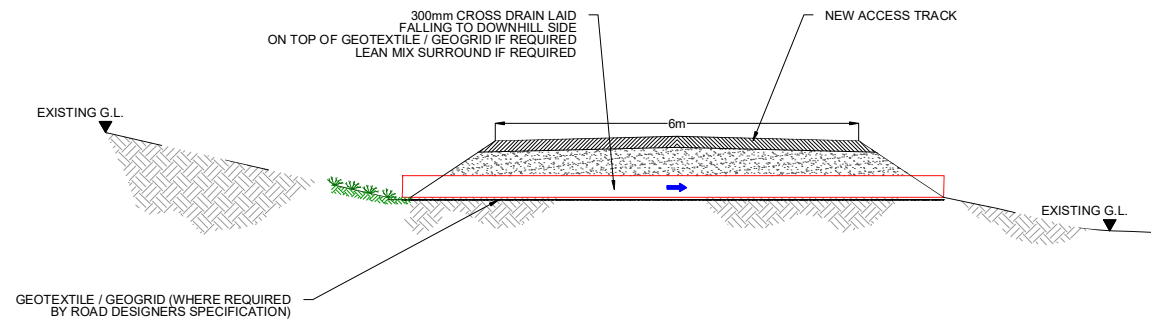
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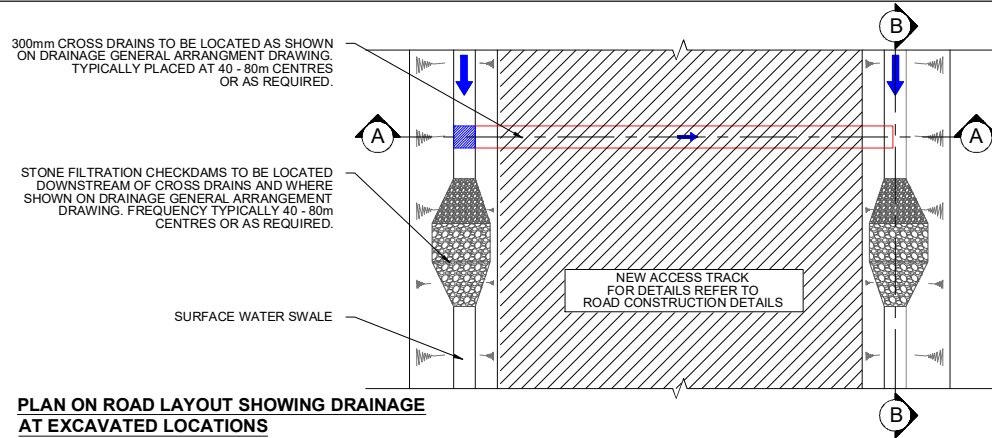
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Drawing No.: **10798-2028** Revision: **A**



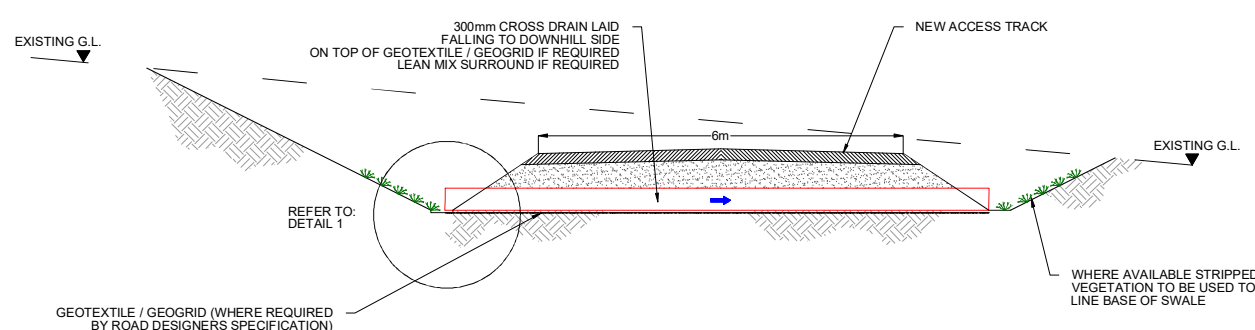
PLAN ON ROAD LAYOUT SHOWING DRAINAGE AT FLOATED LOCATIONS
SCALE 1:50



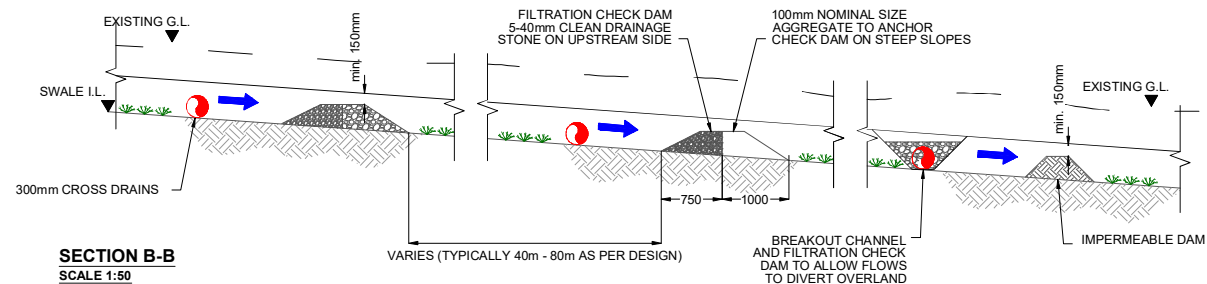
SECTION C-C
SCALE 1:50



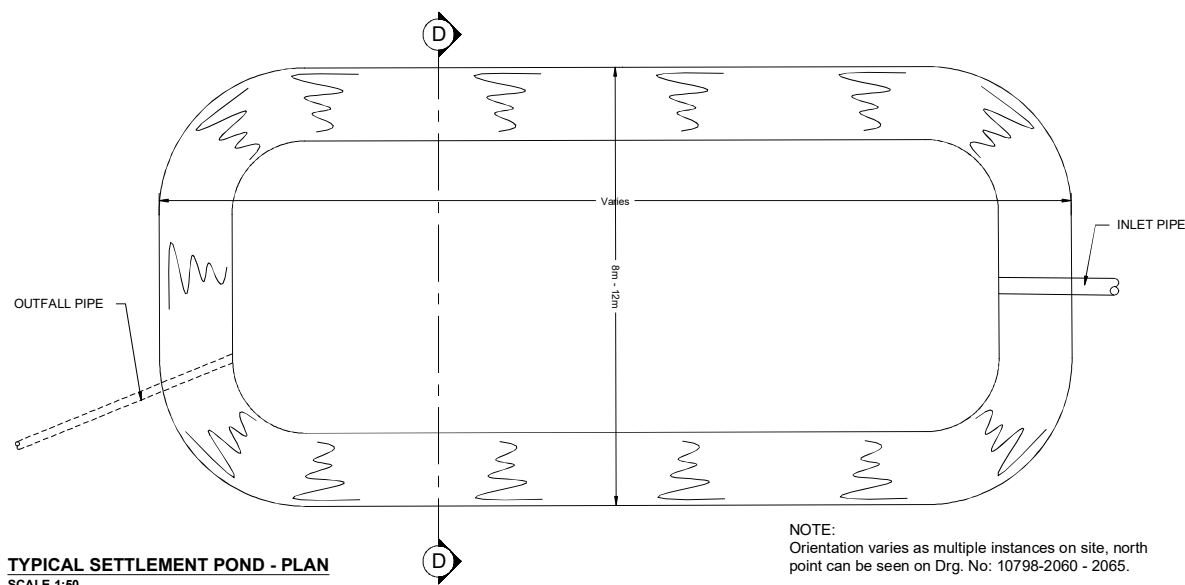
PLAN ON ROAD LAYOUT SHOWING DRAINAGE AT EXCAVATED LOCATIONS
SCALE 1:50



SECTION A-A
SCALE 1:50

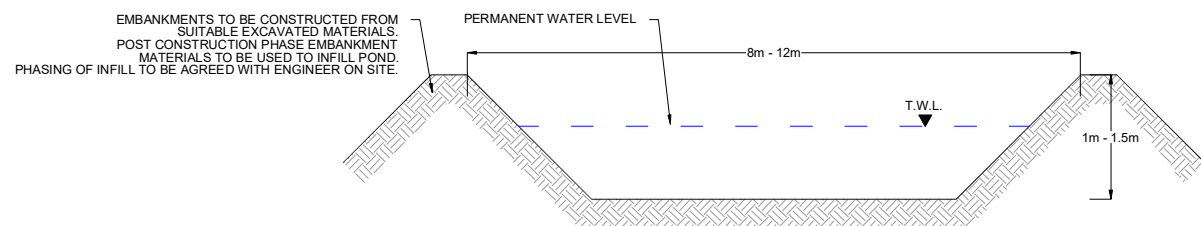


SECTION B-B
SCALE 1:50

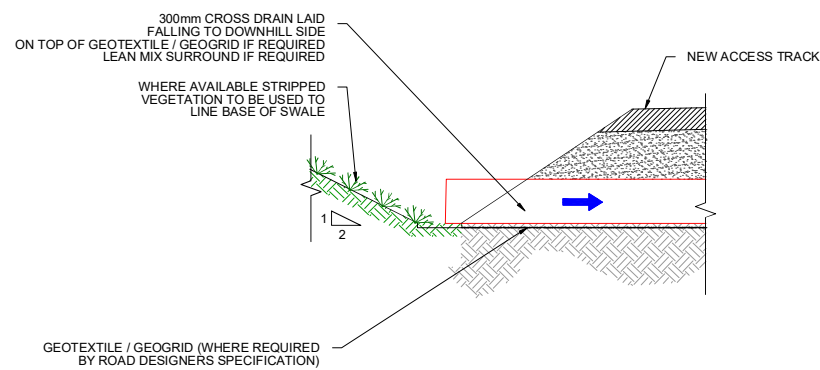


TYPICAL SETTLEMENT POND - PLAN
SCALE 1:50

NOTE:
Orientation varies as multiple instances on site, north point can be seen on Drg. No: 10798-2060 - 2065.



SECTION D-D
SCALE 1:50



DETAIL 1
SCALE 1:100

NOTES:

1. DRAWINGS FOR PLANNING PURPOSES ONLY.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
3. GRID REFERENCES TO IRISH NATIONAL GRID.
4. ALL LEVELS SHOWN RELATE TO ORDANCE SURVEY DATUM AT MALIN HEAD

| Rev | Date | Description | By | Chkd. |
|-----|----------|-------------|----|-------|
| A | 09.02.23 | PLANNING | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
ROAD SWALES & SETTLEMENT POND DETAILS

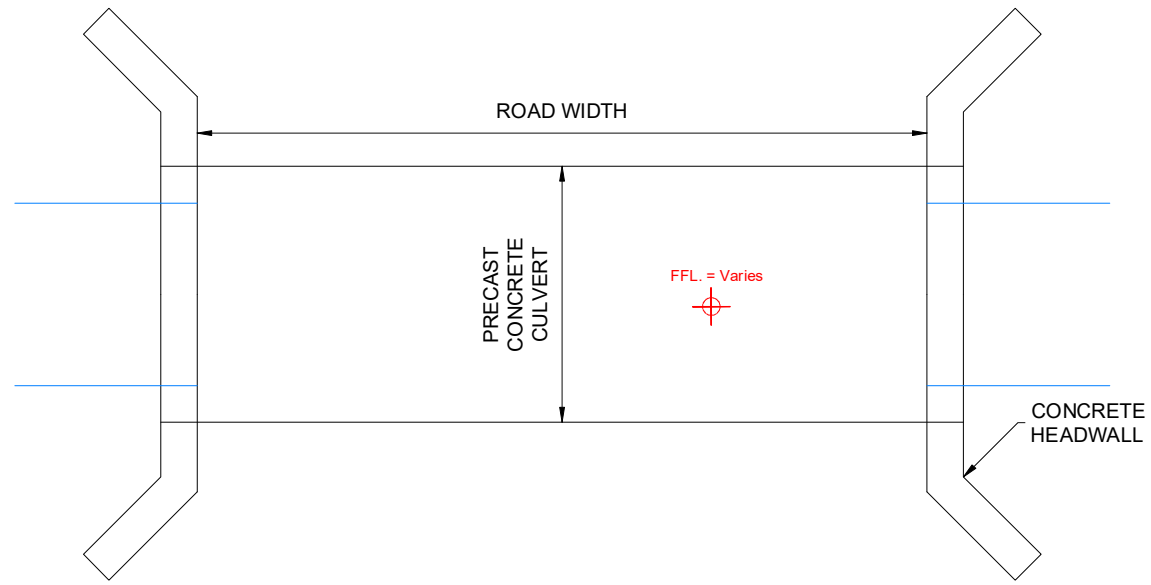
Scale @ A1: **As Shown**
Prepared by: **E. Beggs** Checked: **M. Nolan** November 22
Project Director: **S. Tinnelly**
Drawing Status: **Planning**

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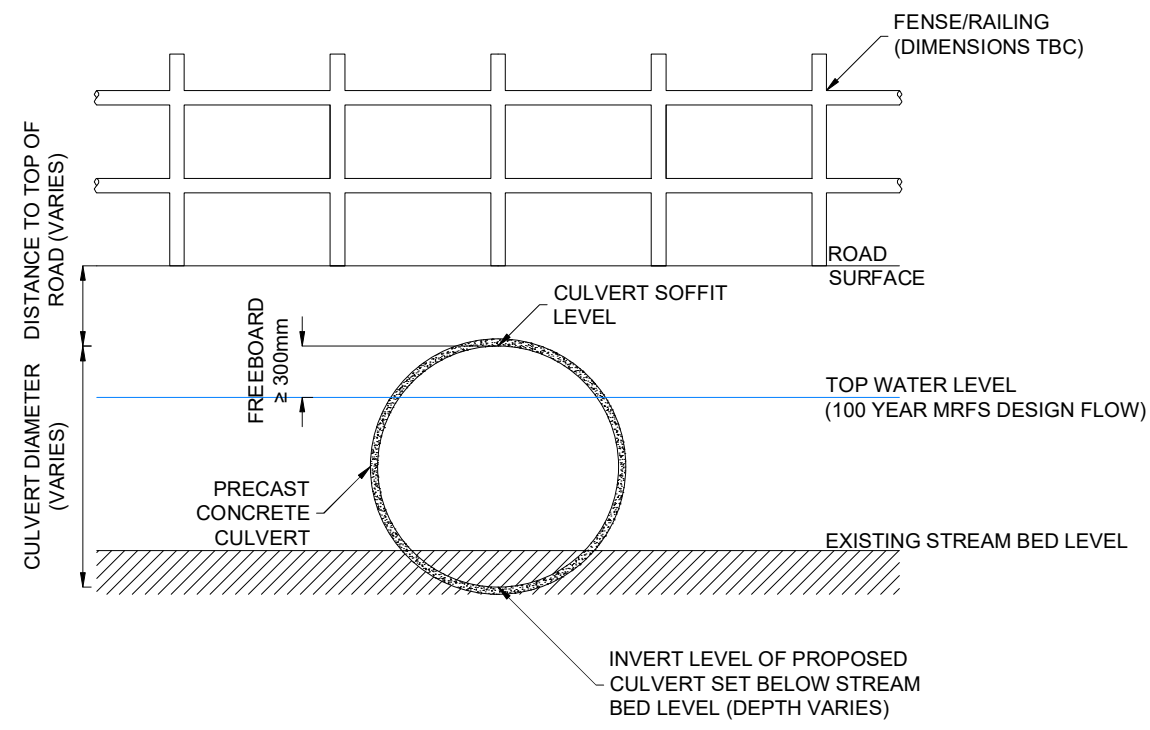
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Drawing No.: **10798-2029**

Revision:
A



PLAN



ELEVATION

NOTE:
Orientation varies as multiple instances on site, north point can be seen on Drg. No: 10798-2003.

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
CULVERT DETAILS

Scale @ A1: 1:50

Prepared by: E. Beggs
Checked: M. Nolan
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

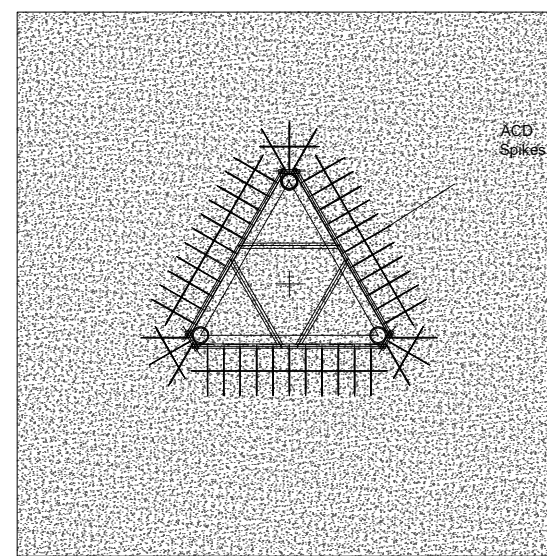
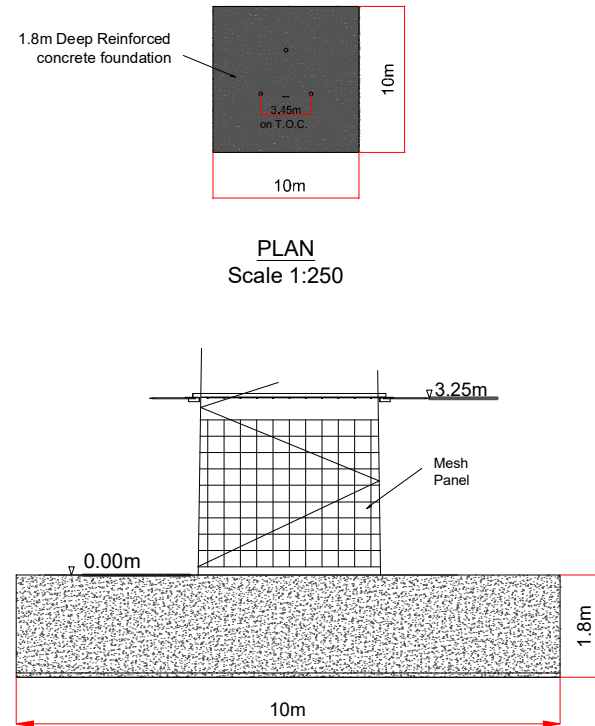
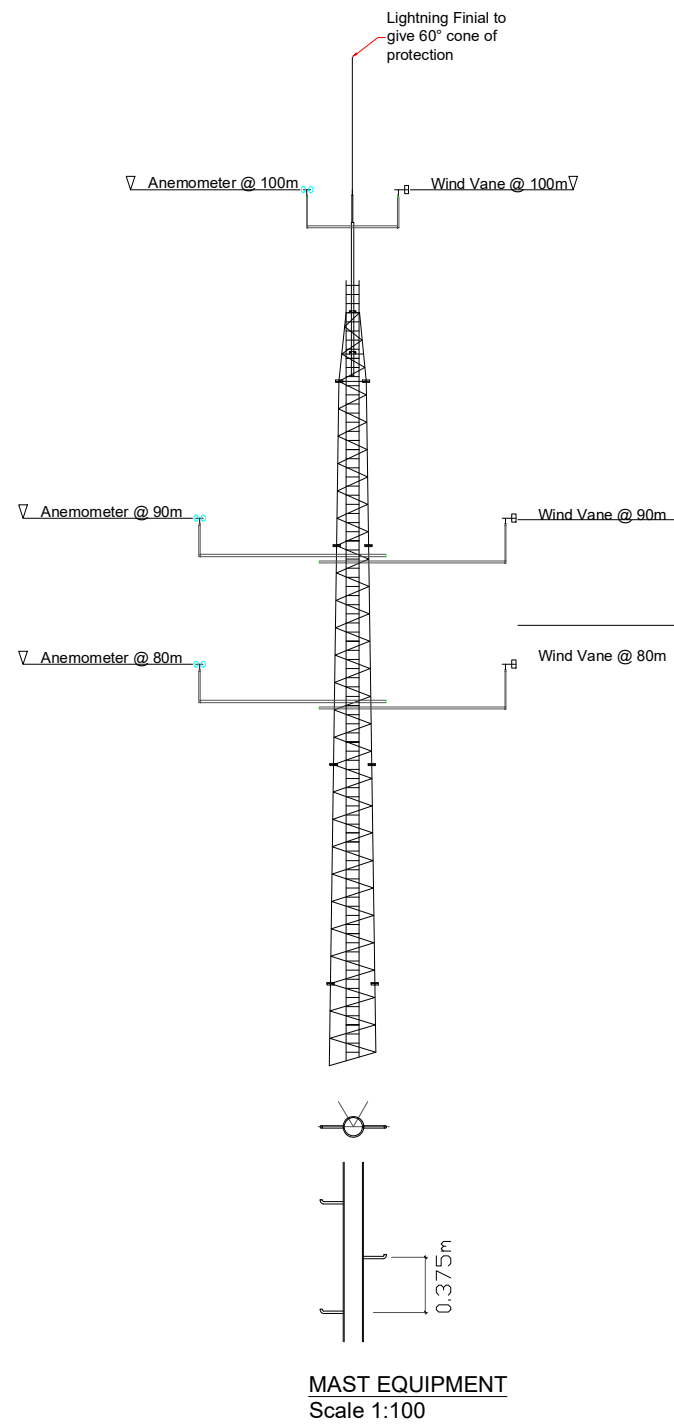
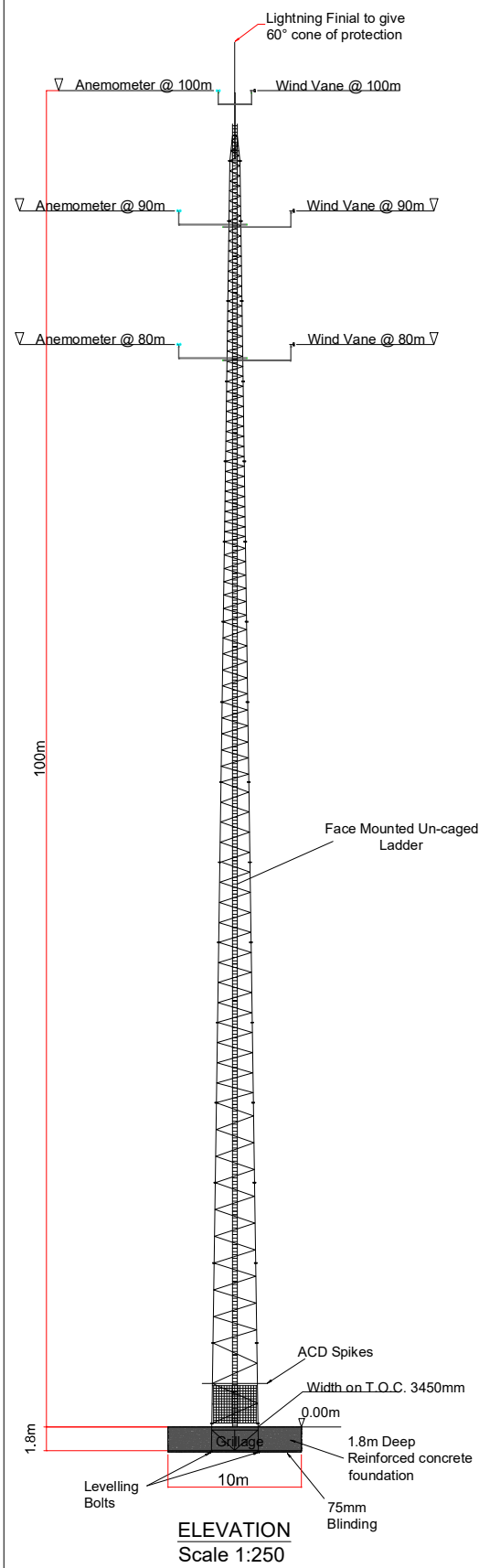
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Drawing No.: 10798-2030

Revision: A



NOTES:

- The tower is triangular lattice construction with circular hollow sections throughout.
- Wind loading and design in accordance with Eurocode Standards (NA ROI).
- Booms will be in compliance with IEC 61400-12-1 (2017) for wind deficit of 99.0% for Primary Booms.
- Fundamental Basic Wind Velocity; V_b , map of 25m/sec and design life of 35 years.
- Site altitude: 200m above sea level.
- Tower usage; Onshore Meteorological
- Reliability Class 1
- Terrain characteristics; Country
- The Tower is designed for Radial Ice Thickness of 55mm in still air condition and 5mm in conjunction with wind.
- The tower can be equipped with external face mounted un-caged ladder or climbing step bolts mounted on one of the legs.
- If climbing step bolts are required from above the anti climbing device, then a short external leg mounted access base ladder can be supplied with lockable cover plate.
- Tower could be fitted with adequate Anti Climbing Device (ACD) at 3.25m level.
- Mesh panels can be fitted on 3 faces on bottom module of the tower.
- All steelworks shall be supplied in accordance with the current European Standards EN 10025-2:2004 and EN 10210-1:2006 of grades S275 and S355.
- Fabrication complies with the CE requirements to EXC2 level and all certificates with CE marking will be provided.
- All connections for bracing members shall be of bolted type of grade 8.8 or 10.9 complete with nuts and spring washers.
- All steelworks shall be hot dip galvanised to European Standard EN ISO 1461 with minimum average coating of 85 microns.
- Lightning Finial would be fitted to tower top and each leg of the tower should be connected to adequate earth system with copper tapes.
- The tower can be fitted with adequate Latchways fall arrest system on the ladder or on the climbing leg if step bolts are requested.

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

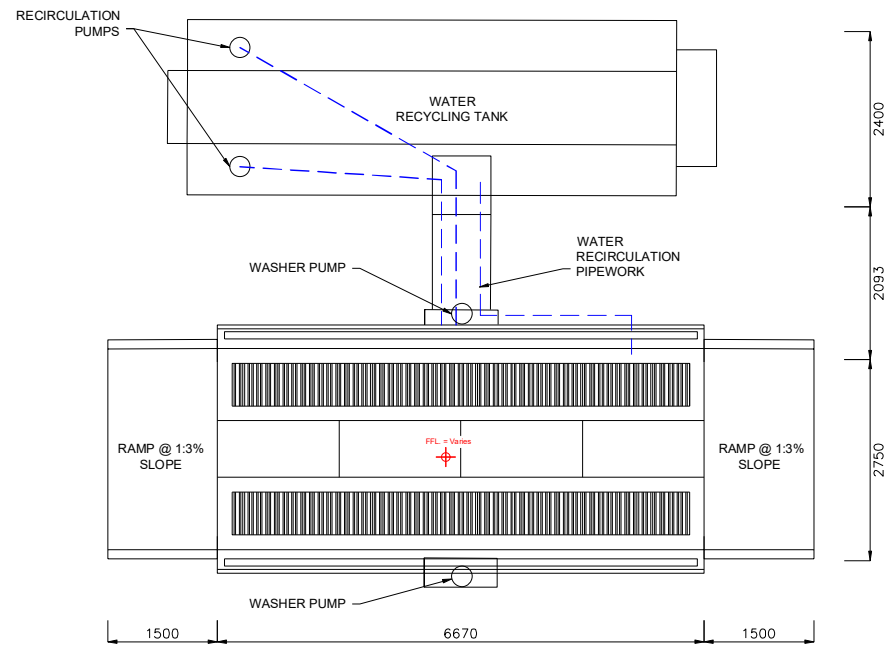
Title:
MET MAST DETAILS

Scale @ A1: **As Shown**
 Prepared by: **E. Beggs** Checked by: **M. Nolan** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

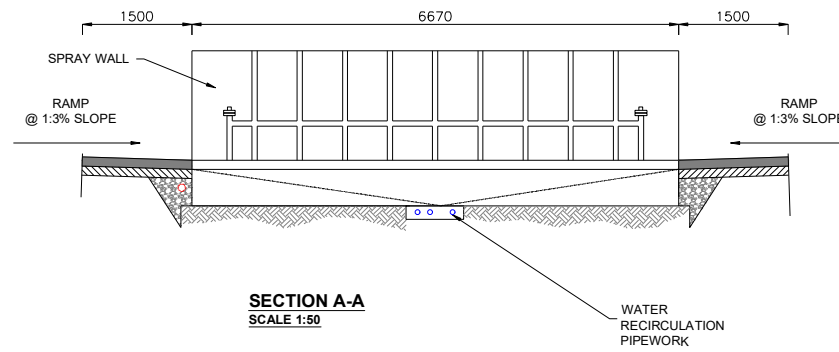
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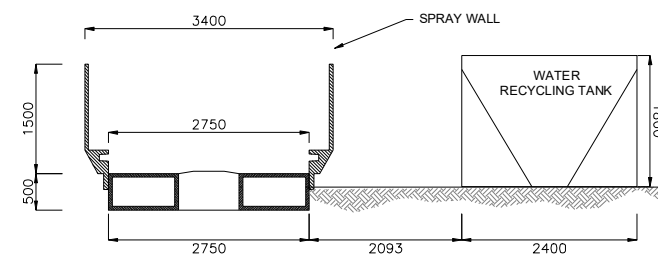
Drawing No.: **10798-2031** Revision: **A**



TYPICAL WHEELWASH - PLAN
SCALE 1:50



SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
COLGHERCOR WIND FARM

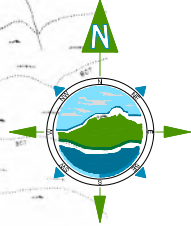
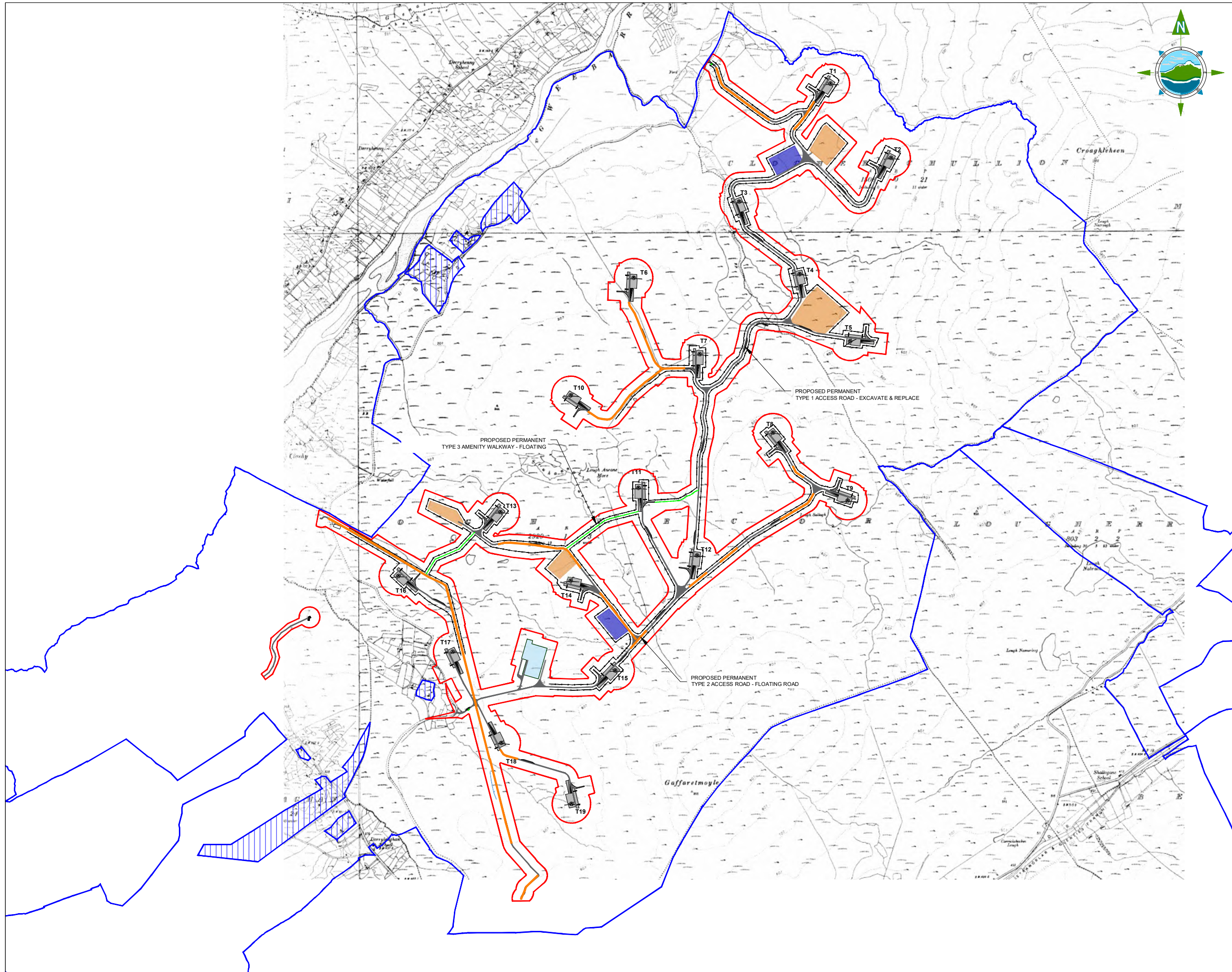
Title:
PROPOSED SELF CONTAINED
TEMPORARY WHEELWASH
SYSTEM DETAILS

Scale @ A1: 1:50
Prepared by: E. Beggs
Checked: M. Nolan
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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Drawing No.: 10798-2032
Revision: A

NOTE:
Orientation varies as multiple instances on site,
north point can be seen on Drg. No: 10798-2003.



GENERAL LEGEND

| | |
|--|---------------------------------------|
| PLANNING APPLICATION BOUNDARY | LAND OWNERS PROPERTY FOLIO |
| PROPOSED 5m PERMANENT TYPE 1 ACCESS ROAD | PROPOSED PERMANENT TYPE 2 ACCESS ROAD |
| PROPOSED TYPE 3 AMENITY WALKWAY | PROPOSED TURBINE LOCATION |
| PROPOSED TURBINE HARDSTAND | |

Note:
For road construction details, refer to Drg. No. 10798-2028.

OSI 1:5,000 Sheet No's: 0319, 0320, 0343, 0344, 0368 & 0369.
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| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

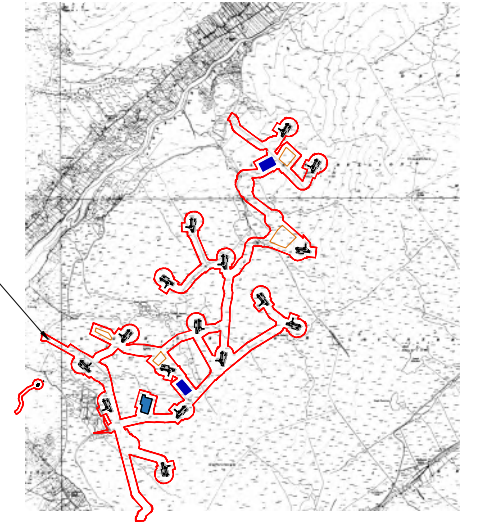
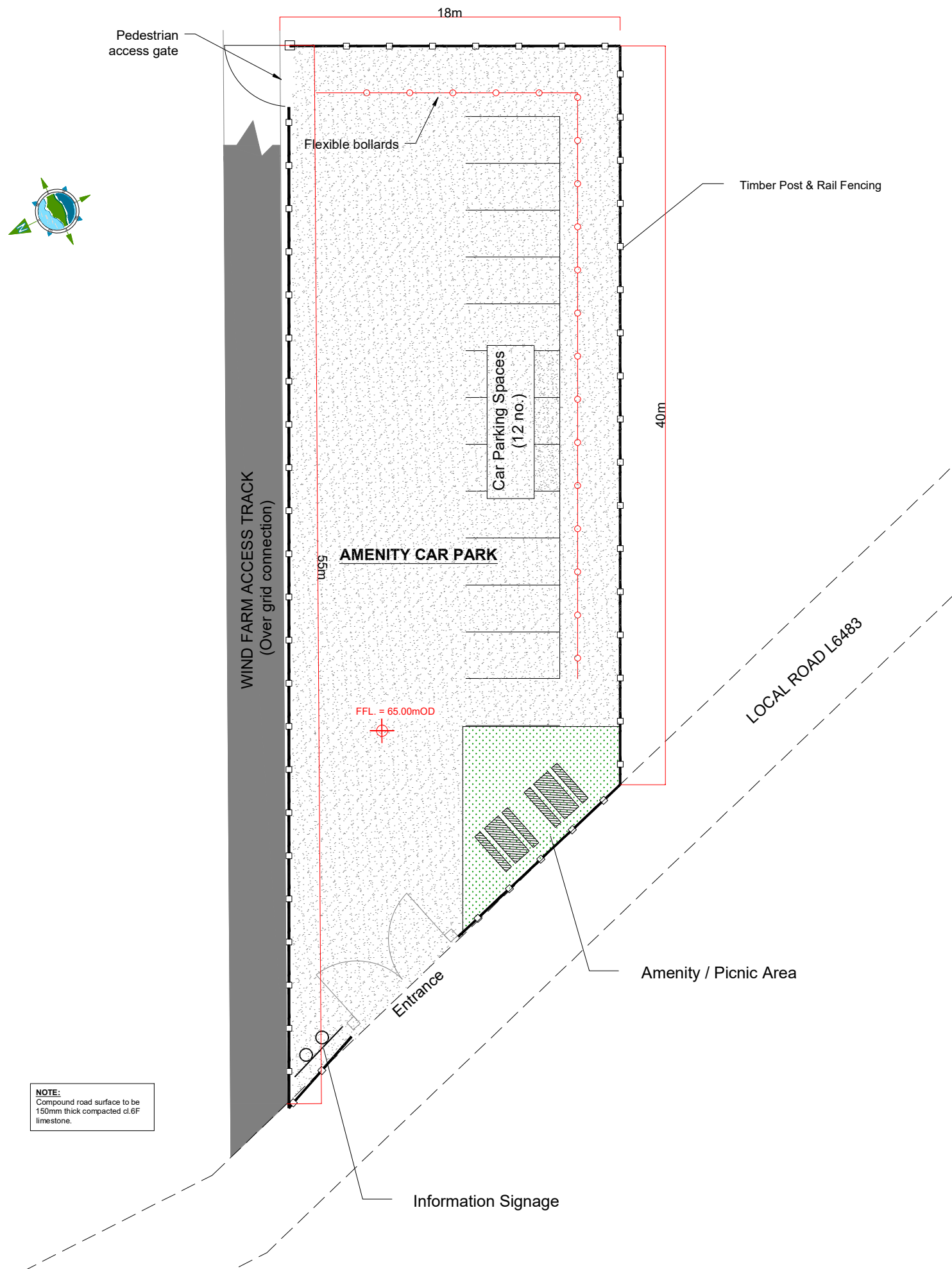
Title:
ROAD CONSTRUCTION TYPE LOCATIONS

Scale @ A1: **1:10,000**
Prepared by: E. Beggs Checked: J. Staunton Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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Drawing No.: **10798-2040** Revision: **A**



KEYPLAN
Scale: NTS

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

| | | | |
|-------------------|-------------|---|--|
| Client: | | CLOGHERCOR WIND FARM LTD. | |
| Project: | | CLOGHERCOR WIND FARM | |
| Title: | | PROPOSED AMENITY CAR PARK LOCATION & LAYOUT | |
| Scale @ A1: | As Shown | | |
| Prepared by: | Checked: | Date: | |
| E. Beggs | M. Nolan | November 22 | |
| Project Director: | S. Tinnelly | | |
| Drawing Status: | Planning | | |

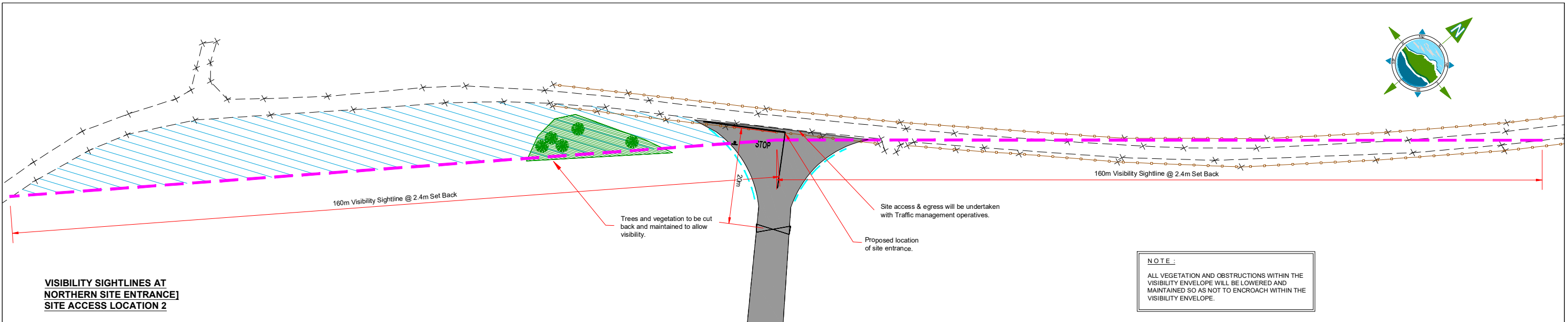
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Drawing No.: 10798-2041

Revision: A

AMENITY CAR PARK - LAYOUT PLAN
SCALE 1:125



Plan Legend:

- Visibility Sightline ---
- Visibility Envelope ▨
- Scrub / Vegetation Area ▨
- Existing Road Edge ---
- Existing Drain ---
- Proposed Filter Drain ---
- Top of Bank ---
- Bottom of Bank ---
- Grass Edge Verge ---
- Existing Wall ---
- Existing Building ▨
- Existing Fenceline ---
- Existing Tree / Bush ●

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
VEHICULAR TRAFFIC ENTRANCE DETAILS & VISIBILITY SIGHTLINES

Scale @ A1: **1:400**

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

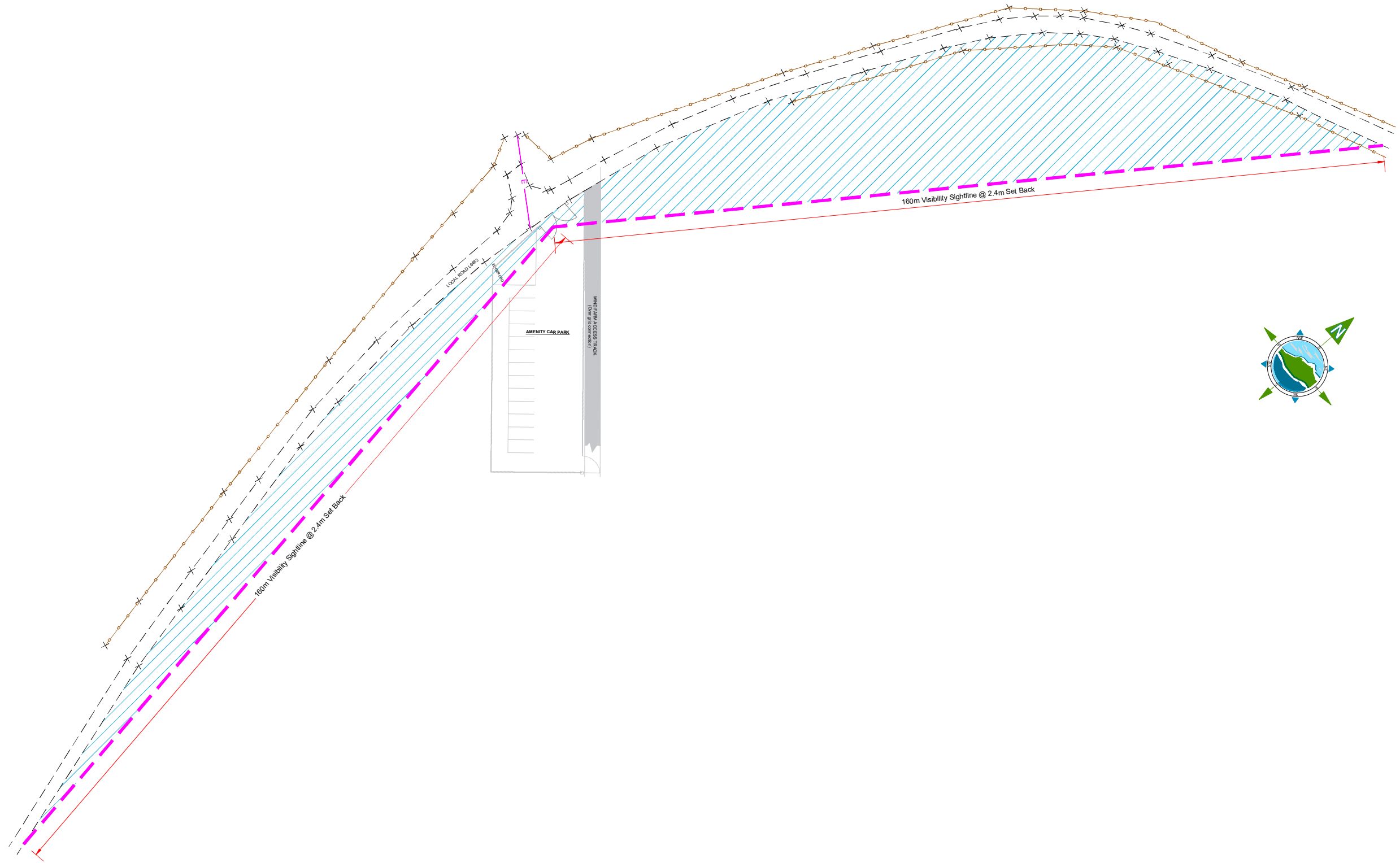
Project Director: **S. Tinnelly**

Drawing Status: **Planning**

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Drawing No.: **10798-2042** Revision: **A**



**VISIBILITY SIGHTLINES AT
AMENITY CAR PARK ENTRANCE**

Plan Legend:

| | |
|----------------------|--|
| Visibility Sightline | |
| Visibility Envelope | |
| Existing Road Edge | |
| Existing Drain | |
| Grass Edge Verge | |
| Existing Fenceline | |
| Existing Tree / Bush | |



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
AMENITY CAR PARK ENTRANCE VISIBILITY SIGHTLINES

Scale @ A1: **1:400**

Prepared by: **E. Beggs** Checked: **J. Staunton** Date: **November 22**

Project Director: **S. Tinnelly**

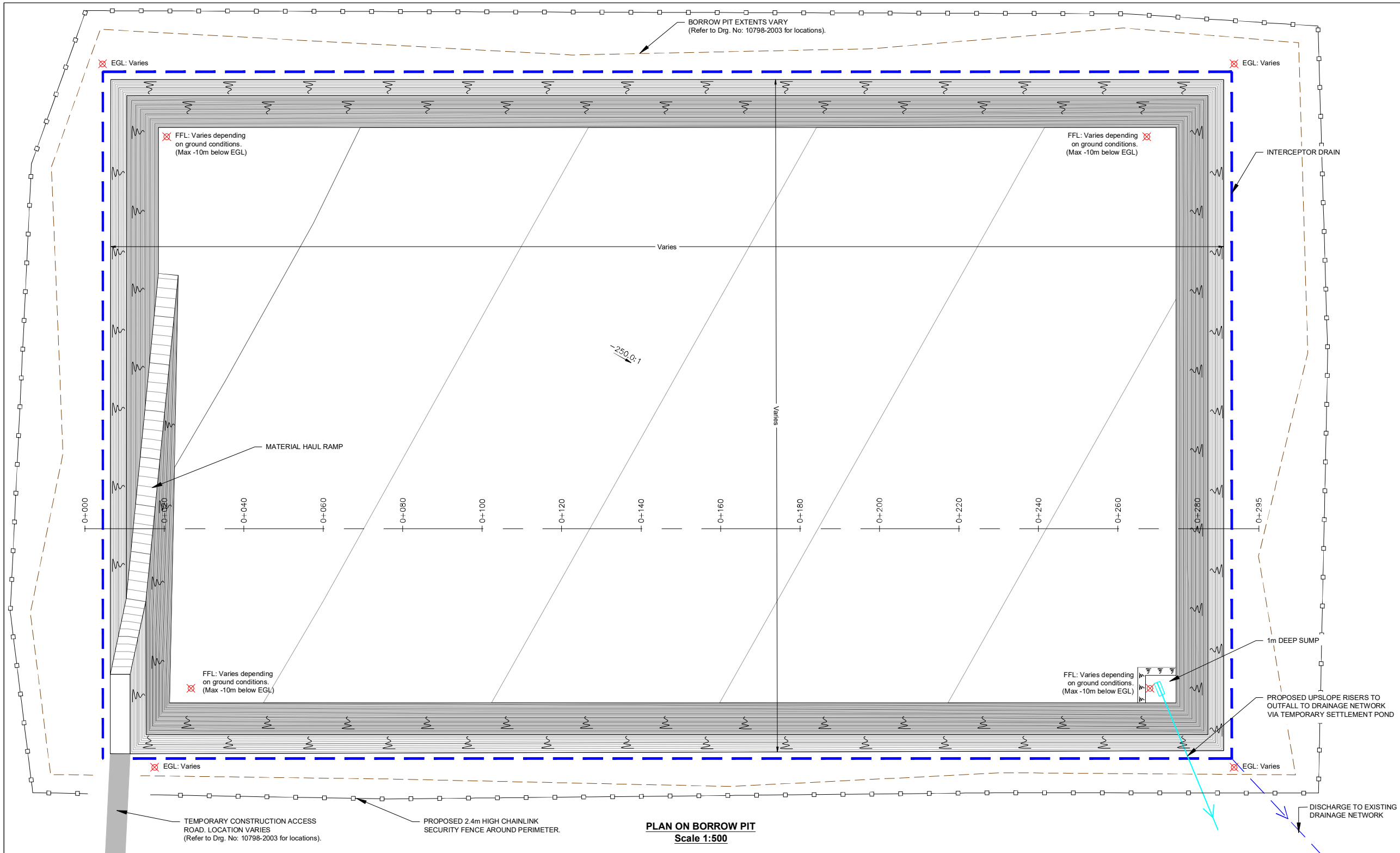
Drawing Status: **Planning**

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NOTE :
ALL VEGETATION AND OBSTRUCTIONS WITHIN THE VISIBILITY ENVELOPE WILL BE LOWERED AND MAINTAINED SO AS NOT TO ENCROACH WITHIN THE VISIBILITY ENVELOPE.

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Drawing No.: **10798-2043** Revision: **A**



GENERAL LEGEND

| | |
|-----------------------------|-----------------------------------|
| PROPOSED BORROW PIT EXTENTS | PROPOSED CHAINLINK SECURITY FENCE |
| PROPOSED INTERCEPTOR DRAIN | GROUND LEVEL SPOT HEIGHTS |

NOTE:
Orientation varies as multiple instances on site, north point can be seen on Drg. No: 10798-2003.

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
PROPOSED ON SITE BORROW PIT DETAILS

Scale @ A1: **As Shown**

Prepared by: **E. Beggs** Checked: **M. Nolan** **November 22**

Project Director: **S. Tinnelly**

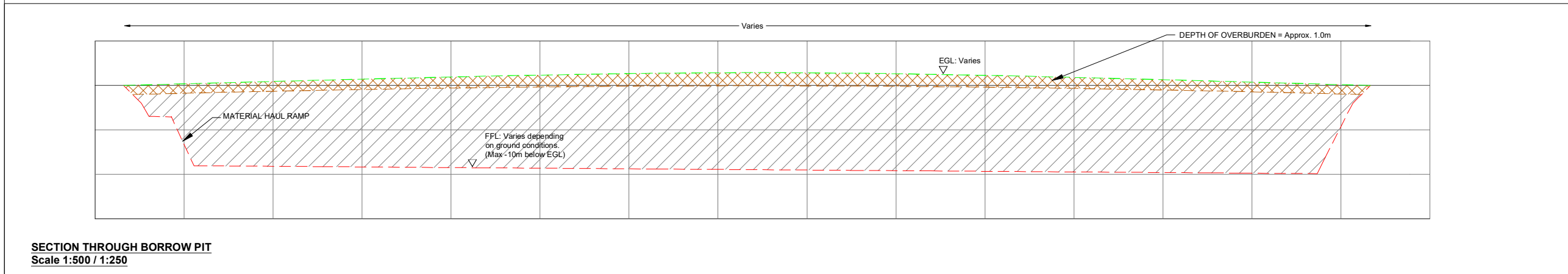
Drawing Status: **Planning**

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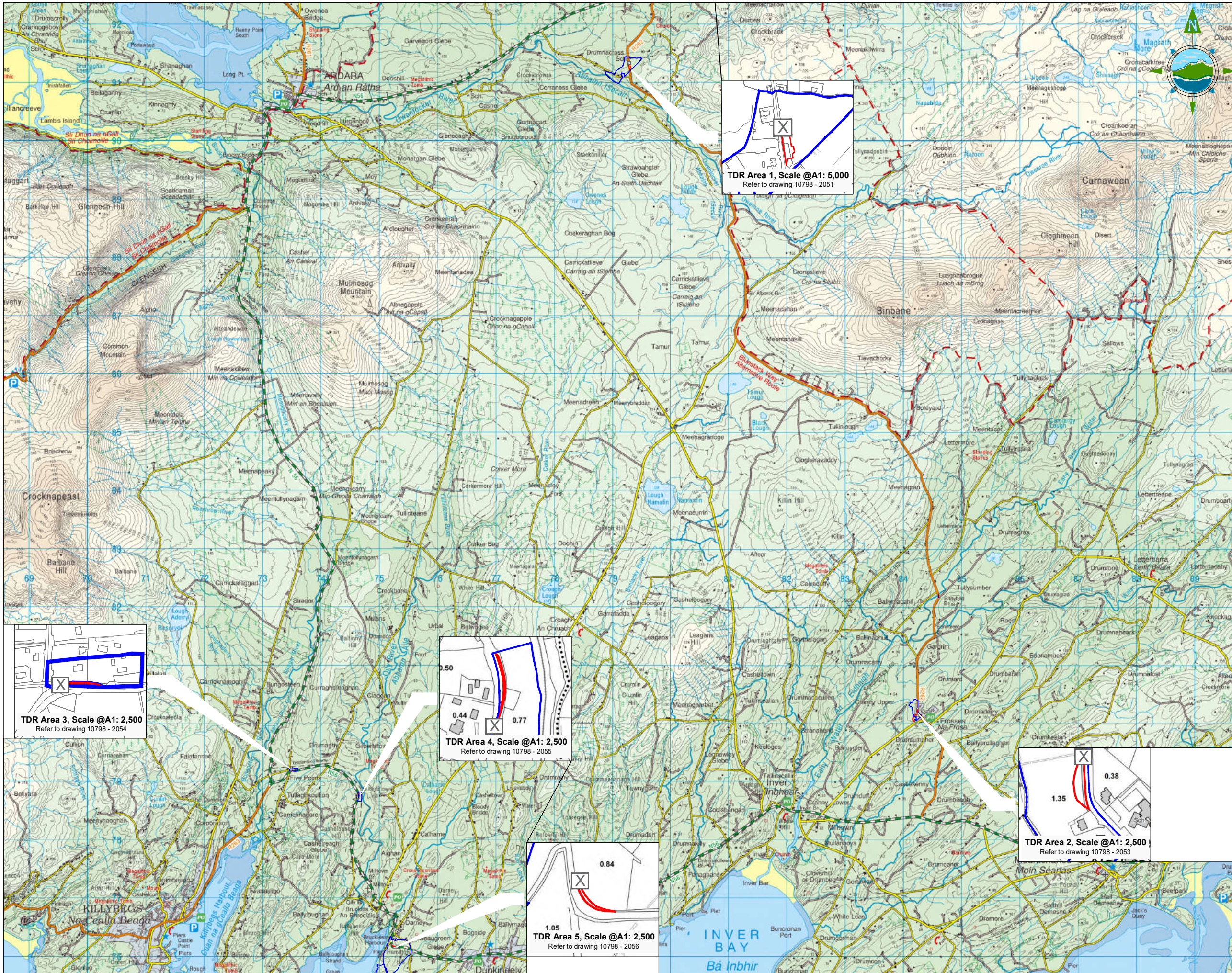
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Drawing No.: **10798-2050** Revision: **A**



SECTION THROUGH BORROW PIT
Scale 1:500 / 1:250



TDR Area 1, Scale @A1: 5,000
Refer to drawing 10798 - 2051

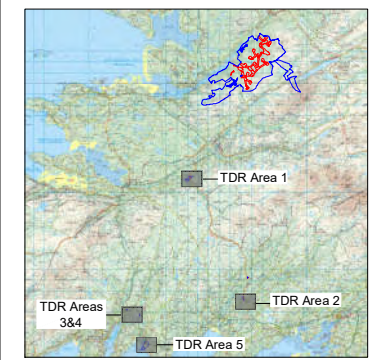
TDR Area 3, Scale @A1: 2,500
Refer to drawing 10798 - 2054

TDR Area 4, Scale @A1: 2,500
Refer to drawing 10798 - 2055

TDR Area 2, Scale @A1: 2,500
Refer to drawing 10798 - 2053

TDR Area 5, Scale @A1: 2,500
Refer to drawing 10798 - 2056

GENERAL LEGEND
 PLANNING APPLICATION BOUNDARY (Red line)
 LAND OWNER'S PROPERTY FOLIO (Blue line)
 SITE NOTICE LOCATIONS (X symbol)



- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 - ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 - ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 - THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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| Rev | Date | Description | By | Chkd. |
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| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
**TDR AREAS
MASTER LOCATION PLAN**

Scale @ A1: 1:30,000 or as Shown

Prepared by: E. Beggs Checked: M. Nolan Date: December 22

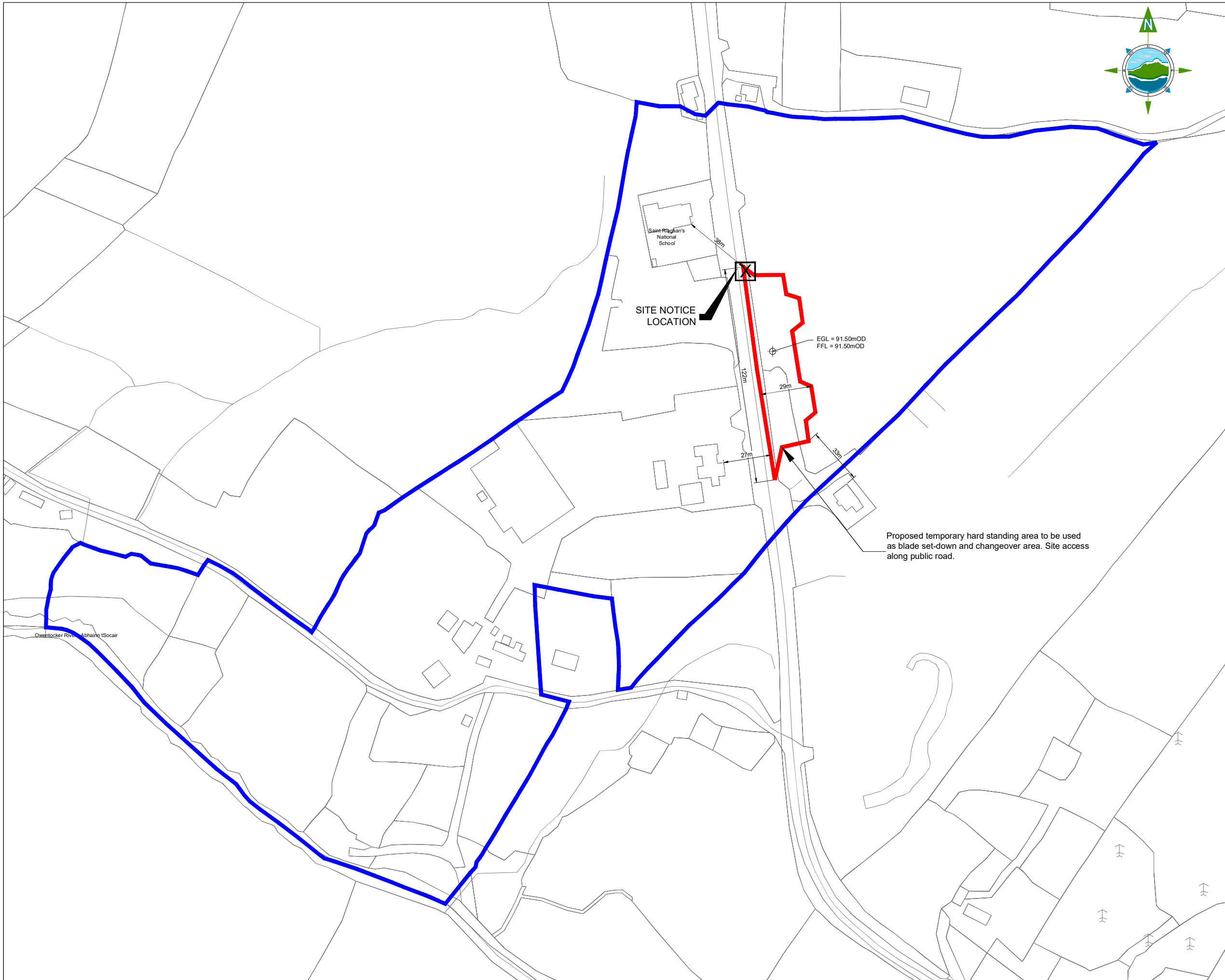
Project Director: S. Tinnelly

Drawing Status: Planning

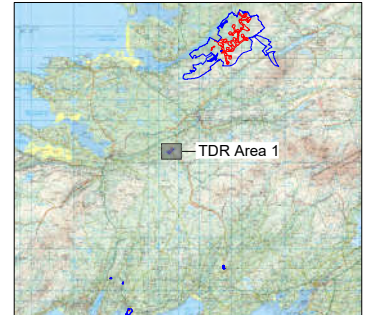
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Drawing No.: **10798-2051** Revision: **A**

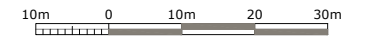


GENERAL LEGEND
 PLANNING APPLICATION BOUNDARY (Red line)
 LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST (Blue line)



- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
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 - THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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 OS1 1:2,500 Sheet No's: 0557-D & 0584-B.
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| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | JS |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
TDR AREA 1 LAYOUT PLAN

Scale @ A1: **1:1,000** Scales as agreed with ABP 06.01.23

Prepared by: **E. Beggs** Checked: **J. Staunton** Date: **December 22**

Project Director: **S. Tinnelly**

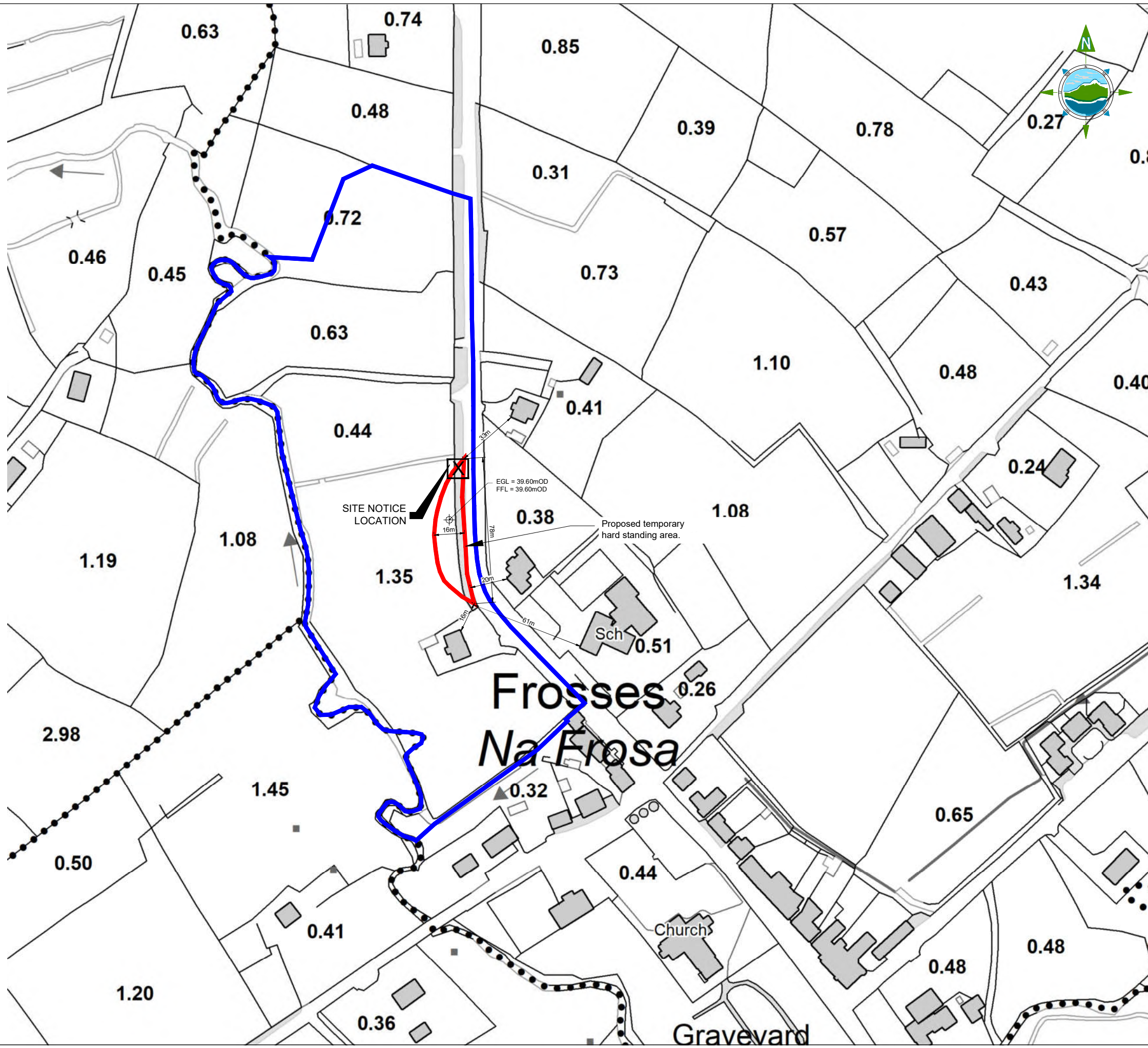
Drawing Status: **Planning**

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Drawing No.: **10798-2052** Revision: **A**



GENERAL LEGEND

PLANNING APPLICATION BOUNDARY (Blue line)

LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST (Red line)

NOTES:

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- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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10m 0 10m 20 30m

| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
TDR AREA 2
LAYOUT PLAN

Scale @ A1: 1:1,000 Scales as agreed with ABP 06.01.23

Prepared by: E. Beggs
Checked: J. Staunton
Date: December 22

Project Director: S. Tinnelly

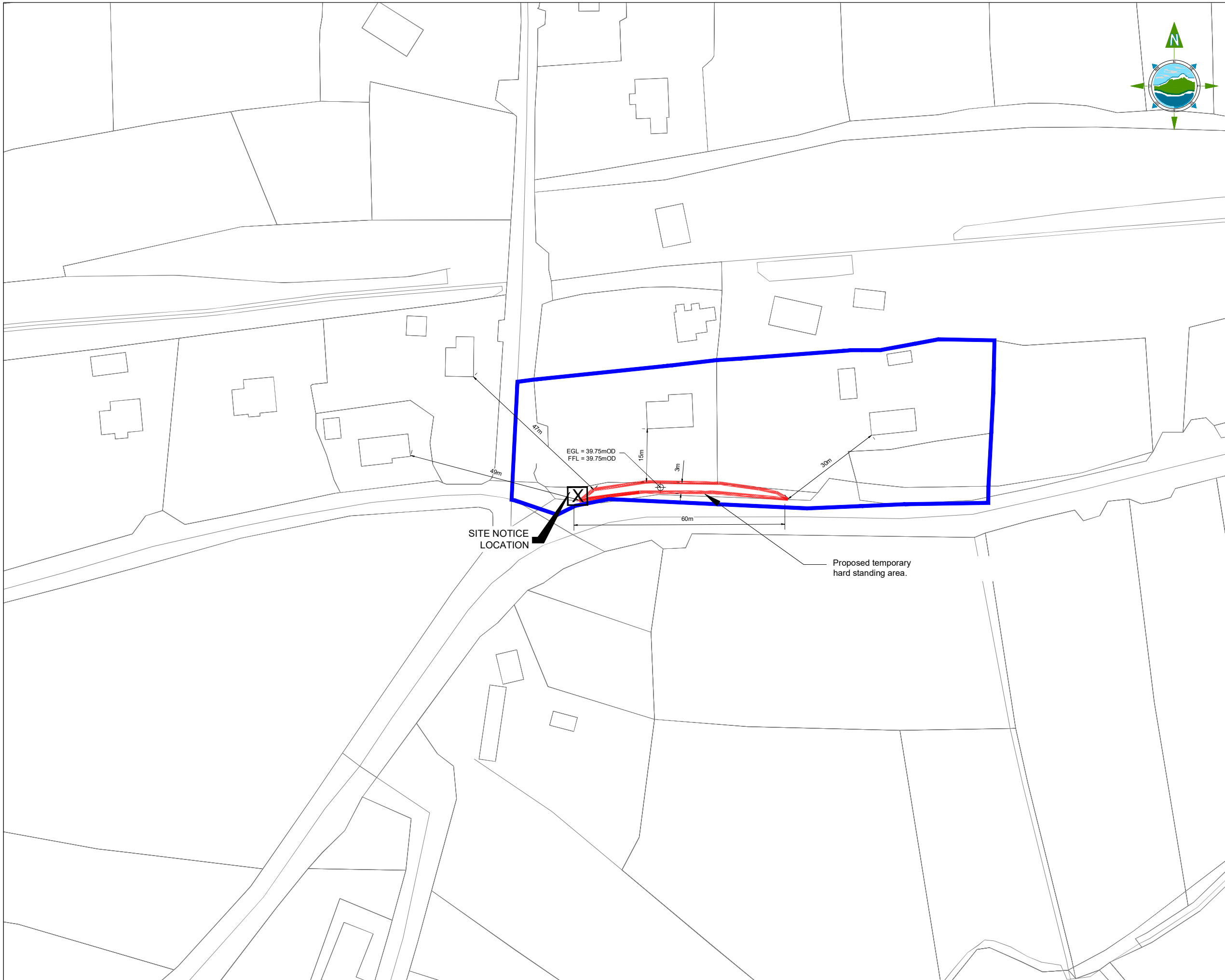
Drawing Status: Planning

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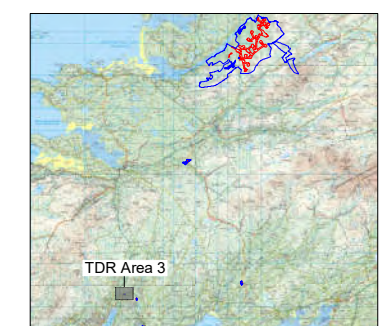
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Drawing No.: 10798-2053 A



GENERAL LEGEND

PLANNING APPLICATION BOUNDARY
 LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST



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 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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| A | 09.02.23 | PLANNING ISSUE | EB | JS |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

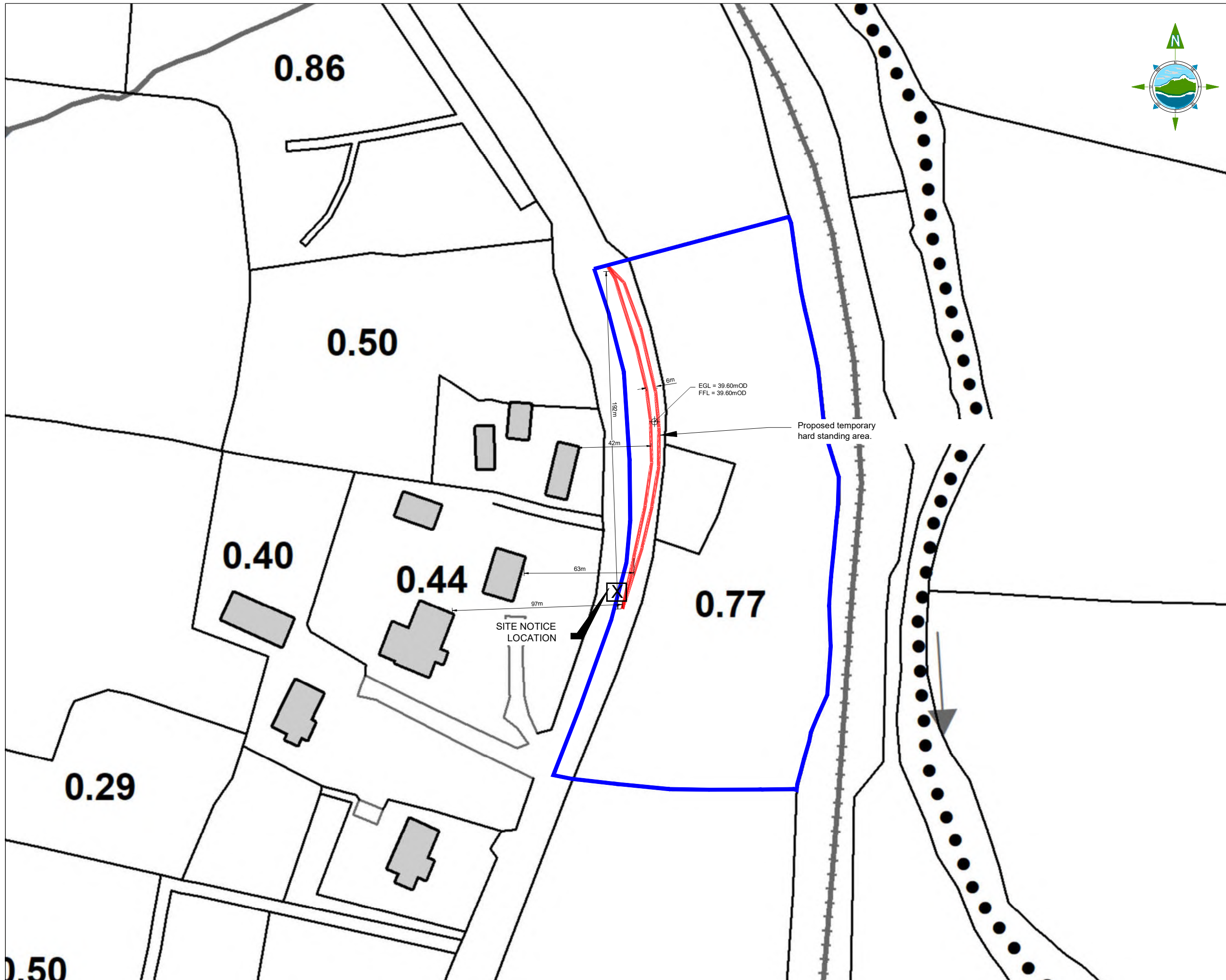
Title:
**TDR AREA 3
 LAYOUT PLAN**

Scale @ A1: **1:500** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked: **J. Staunton** Date: **December 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

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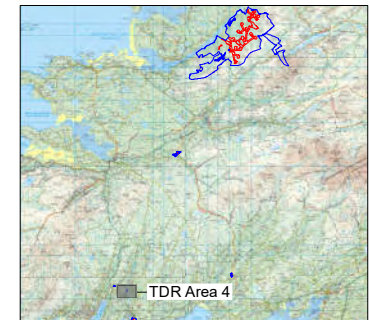
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Drawing No.: **10798-2054** Revision: **A**



GENERAL LEGEND

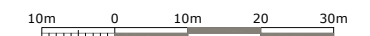
PLANNING APPLICATION BOUNDARY
 LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST



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5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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| A | 09.02.23 | PLANNING ISSUE | EB | JS |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
TDR AREA 4 LAYOUT PLAN

Scale @ A1: **1:500** Scales as agreed with ABP 06.01.23

Prepared by: **E. Beggs** Checked: **J. Staunton** Date: **December 22**

Project Director: **S. Tinnelly**

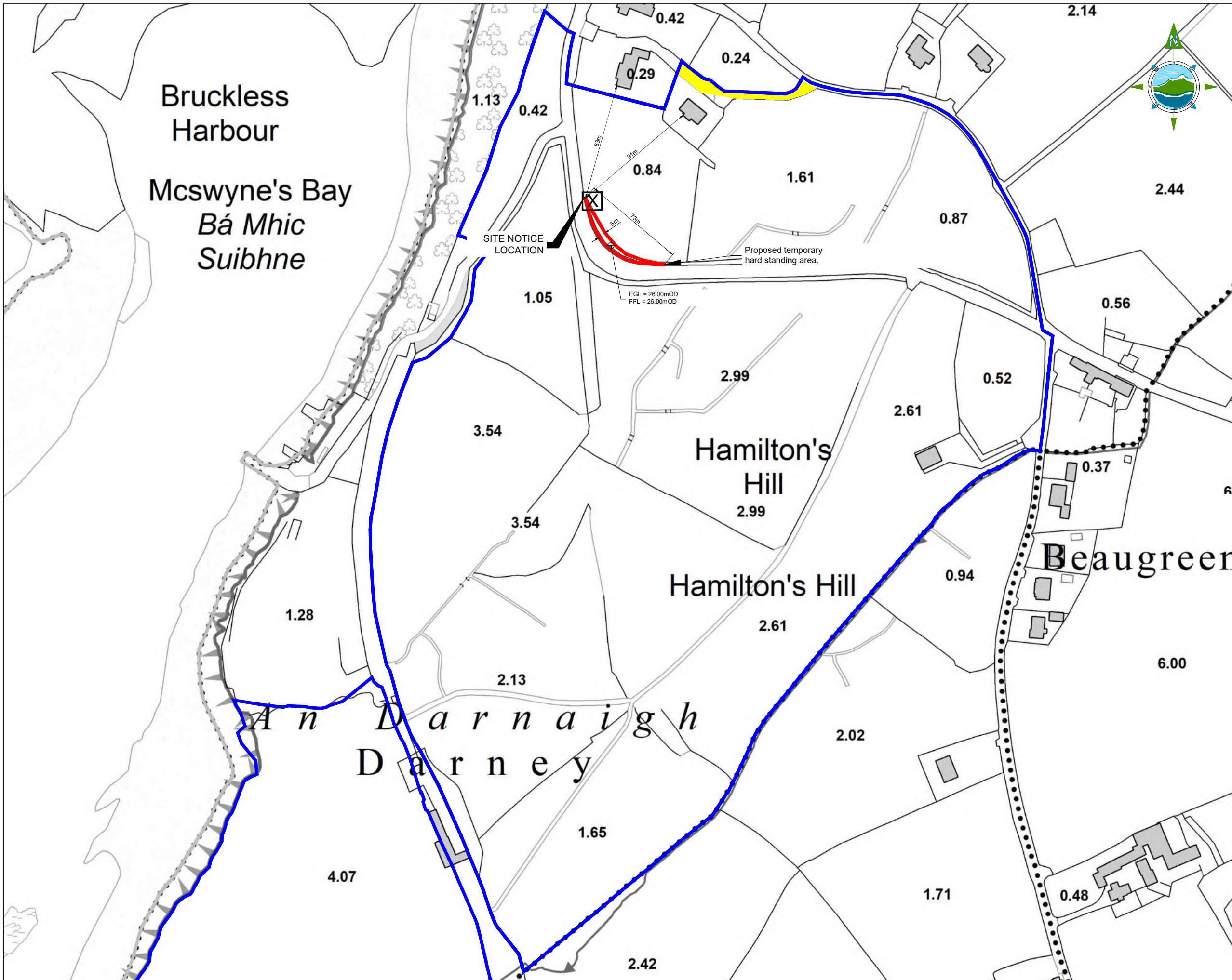
Drawing Status: **Planning**

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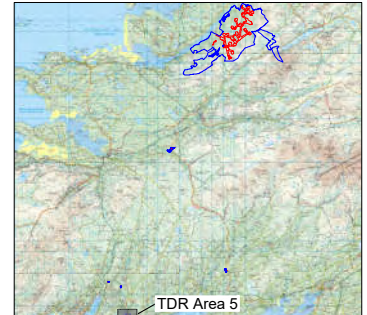
Drawing No.: **10798-2055** Revision: **A**



GENERAL LEGEND

PLANNING APPLICATION BOUNDARY — LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST —

RIGHT OF WAYS —



- NOTES:**
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
TDR AREA 5
LAYOUT PLAN

Scale @ A1: 1:1,250 Scales as agreed with ABP 06.01.23

Prepared by: E. Beggs Checked: J. Staunton Date: December 22

Project Director: S. Tinnelly

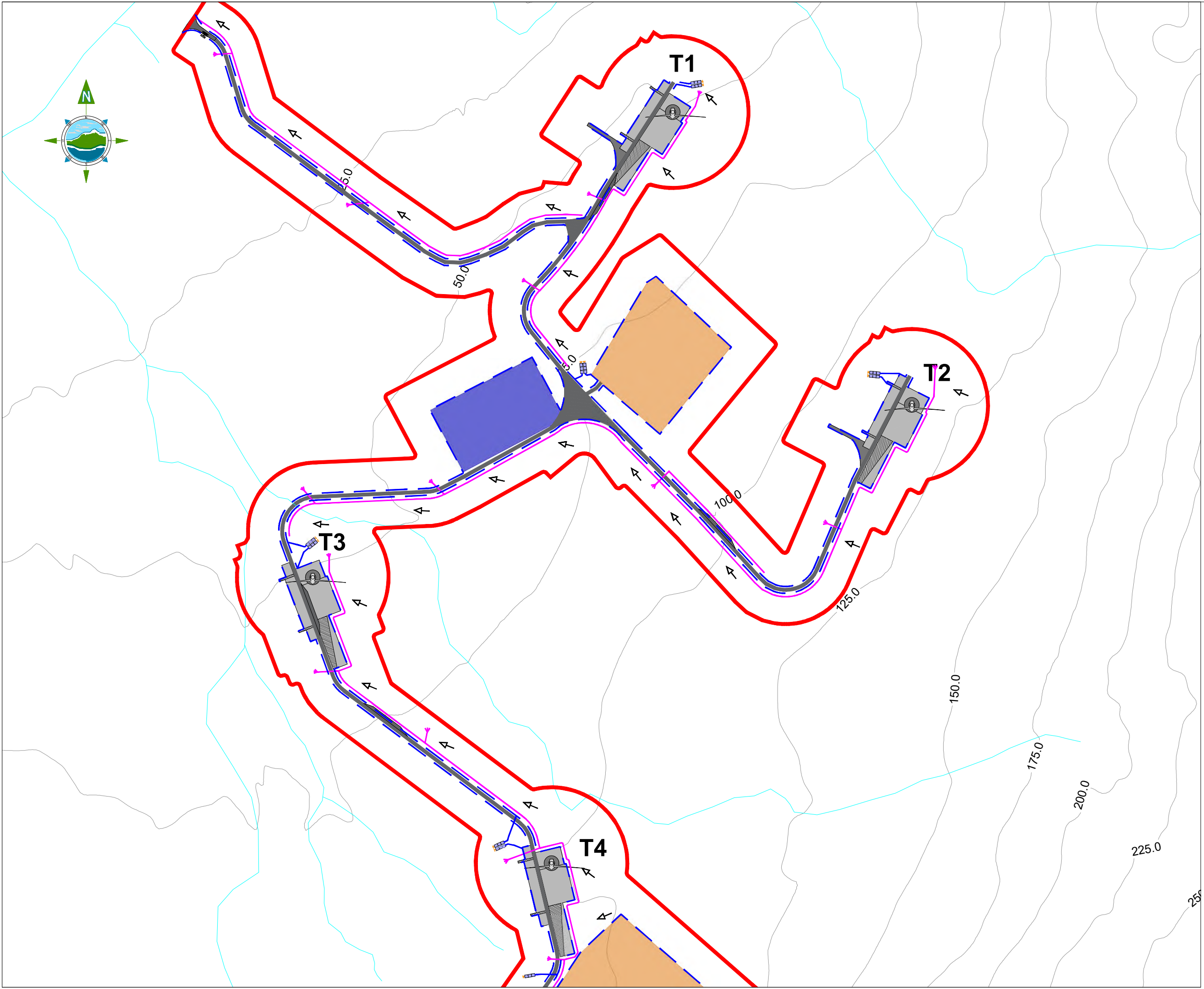
Drawing Status: Planning

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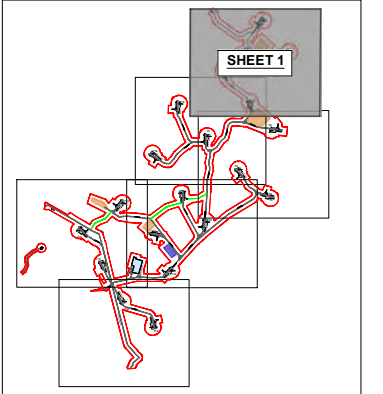
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Drawing No.: 10798-2056 Revision: A



GENERAL LEGEND

| | |
|--------------------------------------|---------------------------------|
| PLANNING APPLICATION BOUNDARY | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED TURBINE HARDSTAND | PROPOSED TURBINE LOCATION |
| PROPOSED TEMPORARY COMPOUND LOCATION | PROPOSED SUBSTATION LOCATION |
| PROPOSED BORROW PIT LOCATION | INTERCEPTOR DITCH |
| ROADSIDE SWALE | SLOPE DIRECTION |
| AMENITY TRAIL | |
| SURFACE WATER SETTLEMENT POND | |



KEY PLAN
Scale @ A1: NTS



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

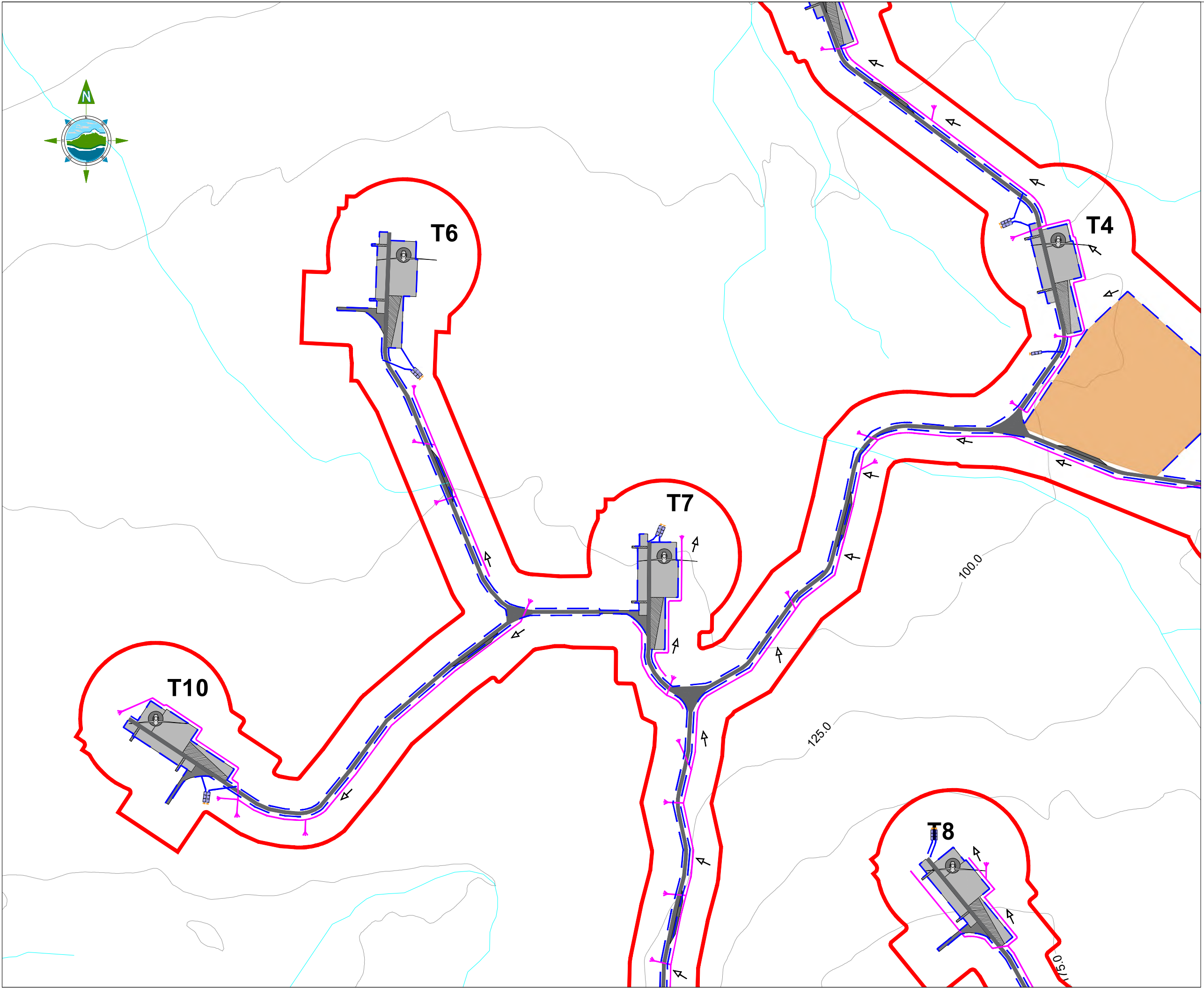
Project:
CLOGHERCOR WIND FARM

Title:
**DRAINAGE LAYOUT
- Sheet 1 of 6 -**

Scale @ A1: **1:2,500** Scales as agreed with ABP 06.01.23
 Prepared by: E. Beggs Checked by: J. Dillon Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

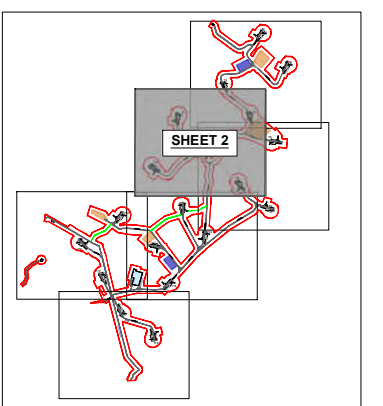
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Drawing No.: **10798-2060** Revision: **A**



GENERAL LEGEND

| | |
|--------------------------------------|---------------------------------|
| PLANNING APPLICATION BOUNDARY | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED TURBINE HARDSTAND | PROPOSED TURBINE LOCATION |
| PROPOSED TEMPORARY COMPOUND LOCATION | PROPOSED SUBSTATION LOCATION |
| PROPOSED BORROW PIT LOCATION | INTERCEPTOR DITCH |
| ROADSIDE SWALE | SLOPE DIRECTION |
| AMENITY TRAIL | |
| SURFACE WATER SETTLEMENT POND | |



KEY PLAN
Scale @ A1: NTS



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

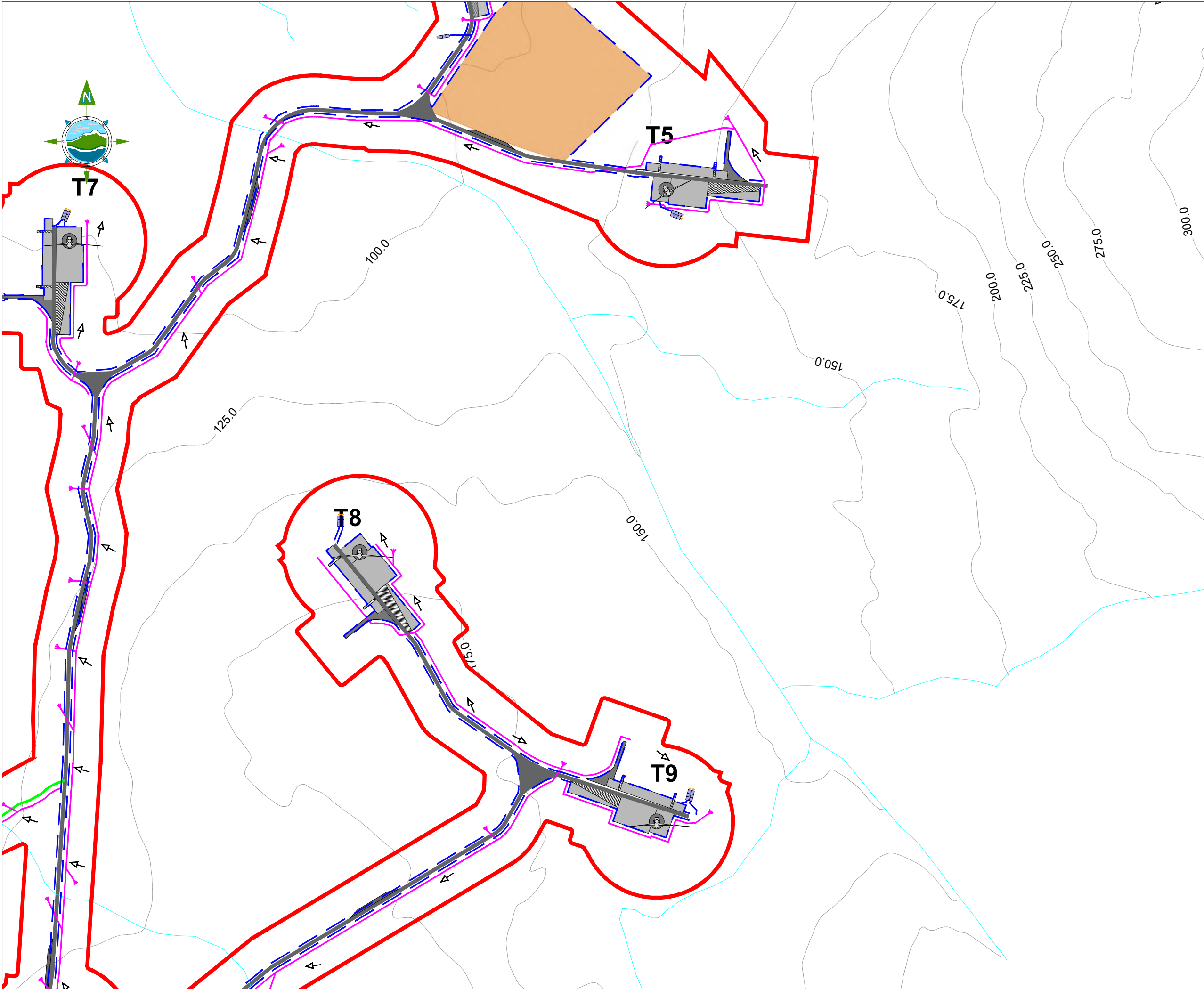
Project:
CLOGHERCOR WIND FARM

Title:
**DRAINAGE LAYOUT
- Sheet 2 of 6 -**

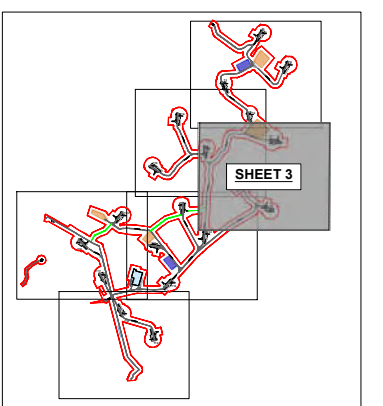
Scale @ A1: **1:2,500** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked: **J. Dillon** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

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Drawing No.: **10798-2061** Revision: **A**



- GENERAL LEGEND**
- PLANNING APPLICATION BOUNDARY: Red solid line
 - PROPOSED TURBINE HARDSTAND: Grey rectangle
 - PROPOSED TEMPORARY COMPOUND LOCATION: Blue rectangle
 - PROPOSED BORROW PIT LOCATION: Orange rectangle
 - ROADSIDE SWALE: Blue dashed line
 - AMENITY TRAIL: Green dashed line
 - SURFACE WATER SETTLEMENT POND: Blue rectangle with arrows
 - EXISTING LOCAL RIVERS / STREAMS: Cyan line
 - PROPOSED TURBINE LOCATION: Black circle with tower
 - PROPOSED SUBSTATION LOCATION: Blue square
 - INTERCEPTOR DITCH: Purple dashed line
 - SLOPE DIRECTION: Black arrow



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

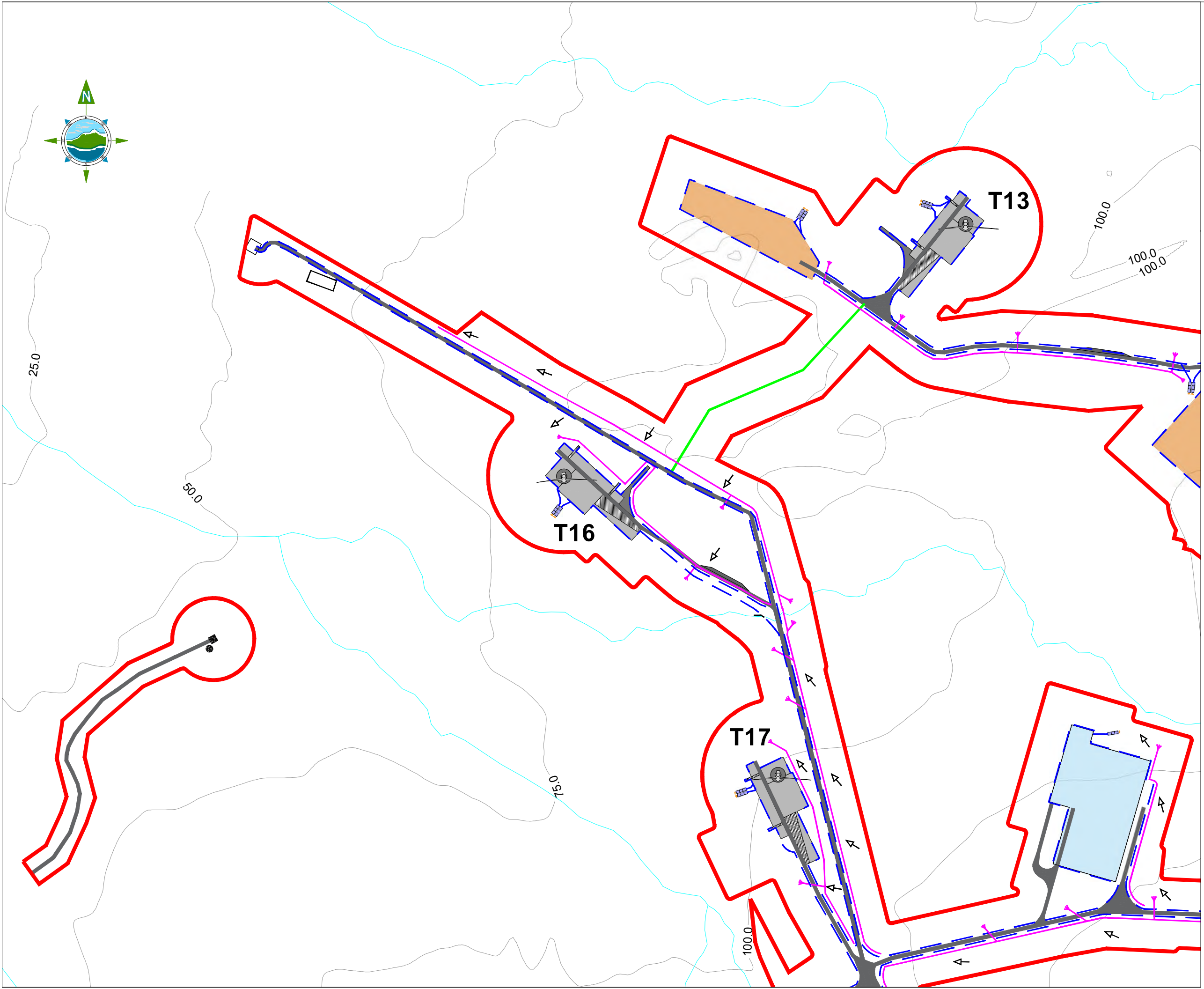
Title:
**DRAINAGE LAYOUT
- Sheet 3 of 6 -**

Scale @ A1: **1:2,500** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked: **J. Dillon** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

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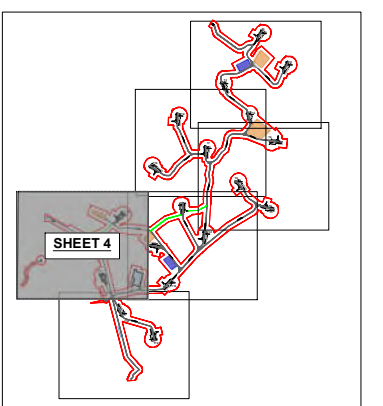
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Drawing No.: **10798-2062** Revision: **A**



GENERAL LEGEND

| | | | |
|--------------------------------------|--|---------------------------------|--|
| PLANNING APPLICATION BOUNDARY | | EXISTING LOCAL RIVERS / STREAMS | |
| PROPOSED TURBINE HARDSTAND | | PROPOSED TURBINE LOCATION | |
| PROPOSED TEMPORARY COMPOUND LOCATION | | PROPOSED SUBSTATION LOCATION | |
| PROPOSED BORROW PIT LOCATION | | INTERCEPTOR DITCH | |
| ROADSIDE SWALE | | SLOPE DIRECTION | |
| AMENITY TRAIL | | | |
| SURFACE WATER SETTLEMENT POND | | | |



KEY PLAN
Scale @ A1: NTS



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

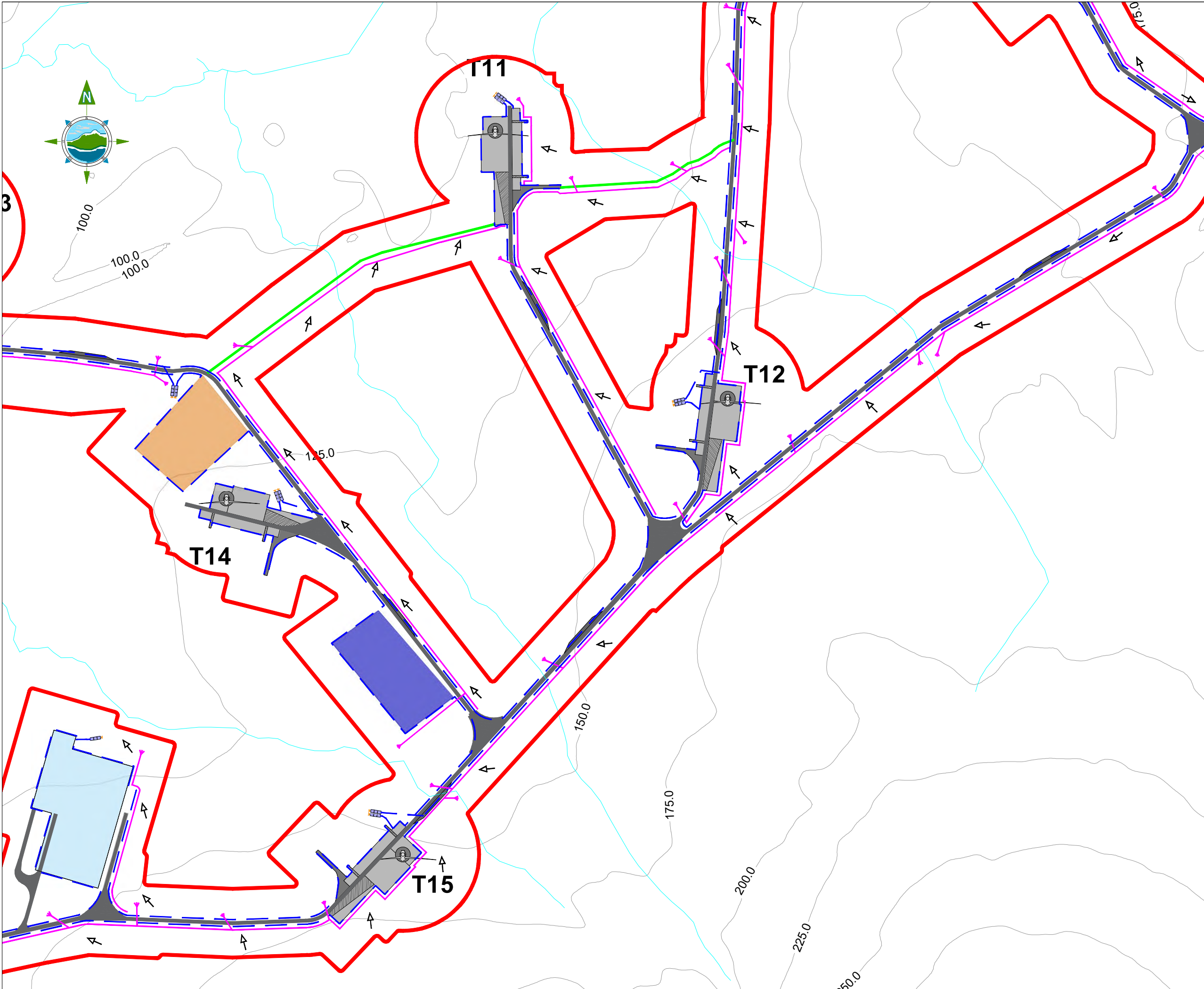
Project:
CLOGHERCOR WIND FARM

Title:
**DRAINAGE LAYOUT
- Sheet 4 of 6 -**

Scale @ A1: **1:2,500** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked by: **J. Dillon** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

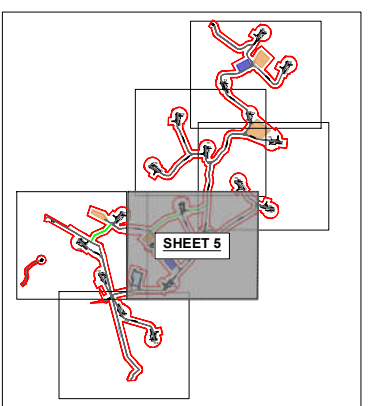
TOBIN
CONSULTING ENGINEERS
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 Dublin 15, Ireland.
 tel: +353-(0)1-8030406
 fax: +353-(0)1-8030409
 e-mail: dublin@tobin.ie
 www.tobin.ie

Drawing No.: **10798-2063** Revision: **A**



GENERAL LEGEND

| | |
|--------------------------------------|---------------------------------|
| PLANNING APPLICATION BOUNDARY | EXISTING LOCAL RIVERS / STREAMS |
| PROPOSED TURBINE HARDSTAND | PROPOSED TURBINE LOCATION |
| PROPOSED TEMPORARY COMPOUND LOCATION | PROPOSED SUBSTATION LOCATION |
| PROPOSED BORROW PIT LOCATION | INTERCEPTOR DITCH |
| ROADSIDE SWALE | SLOPE DIRECTION |
| AMENITY TRAIL | |
| SURFACE WATER SETTLEMENT POND | |



KEY PLAN
Scale @ A1: NTS



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

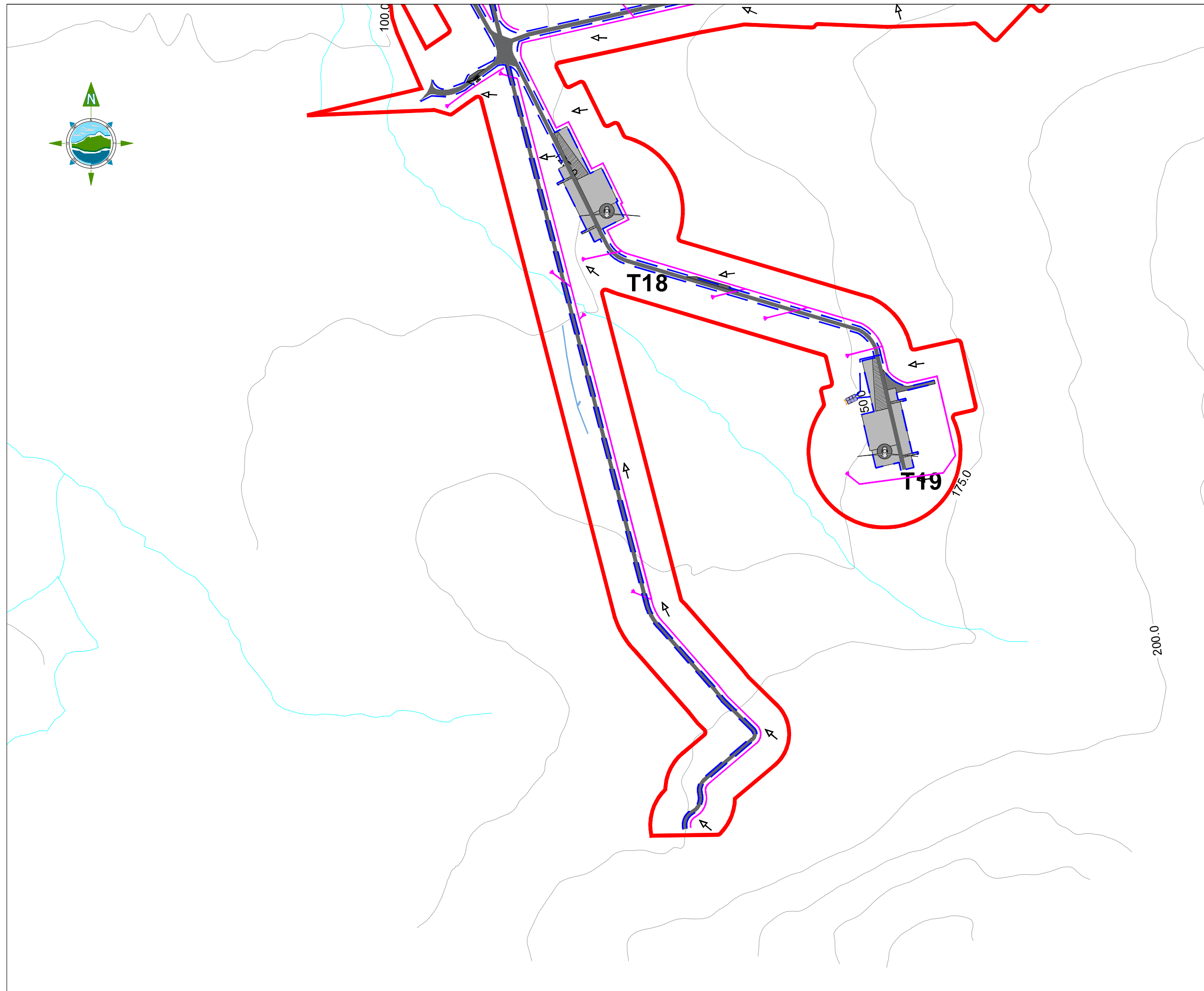
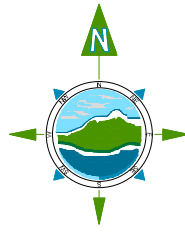
Project:
CLOGHERCOR WIND FARM

Title:
**DRAINAGE LAYOUT
- Sheet 5 of 6 -**

Scale @ A1: **1:2,500** Scales as agreed with ABP 06.01.23
 Prepared by: **E. Beggs** Checked: **J. Dillon** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

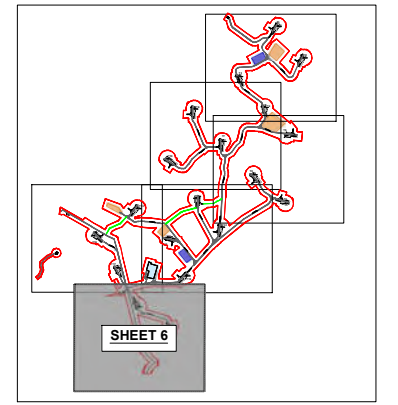
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 Drawing No.: **10798-2064** Revision: **A**



GENERAL LEGEND

| | | | |
|--------------------------------------|--|---------------------------------|--|
| PLANNING APPLICATION BOUNDARY | | EXISTING LOCAL RIVERS / STREAMS | |
| PROPOSED TURBINE HARDSTAND | | PROPOSED TURBINE LOCATION | |
| PROPOSED TEMPORARY COMPOUND LOCATION | | PROPOSED SUBSTATION LOCATION | |
| PROPOSED BORROW PIT LOCATION | | INTERCEPTOR DITCH | |
| ROADSIDE SWALE | | SLOPE DIRECTION | |
| AMENITY TRAIL | | | |
| SURFACE WATER SETTLEMENT POND | | | |



KEY PLAN
Scale @ A1: NTS



| Rev | Date | Description | By | Chkd. |
|-----|----------|----------------|----|-------|
| A | 09.02.23 | PLANNING ISSUE | EB | MN |

Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
**DRAINAGE LAYOUT
- Sheet 6 of 6 -**

Scale @ A1: **1:2,500** Scales as agreed with ABP 06.01.23

Prepared by: **E. Beggs** Checked: **J. Dillon** Date: **November 22**

Project Director: **S. Tinnelly**

Drawing Status: **Planning**

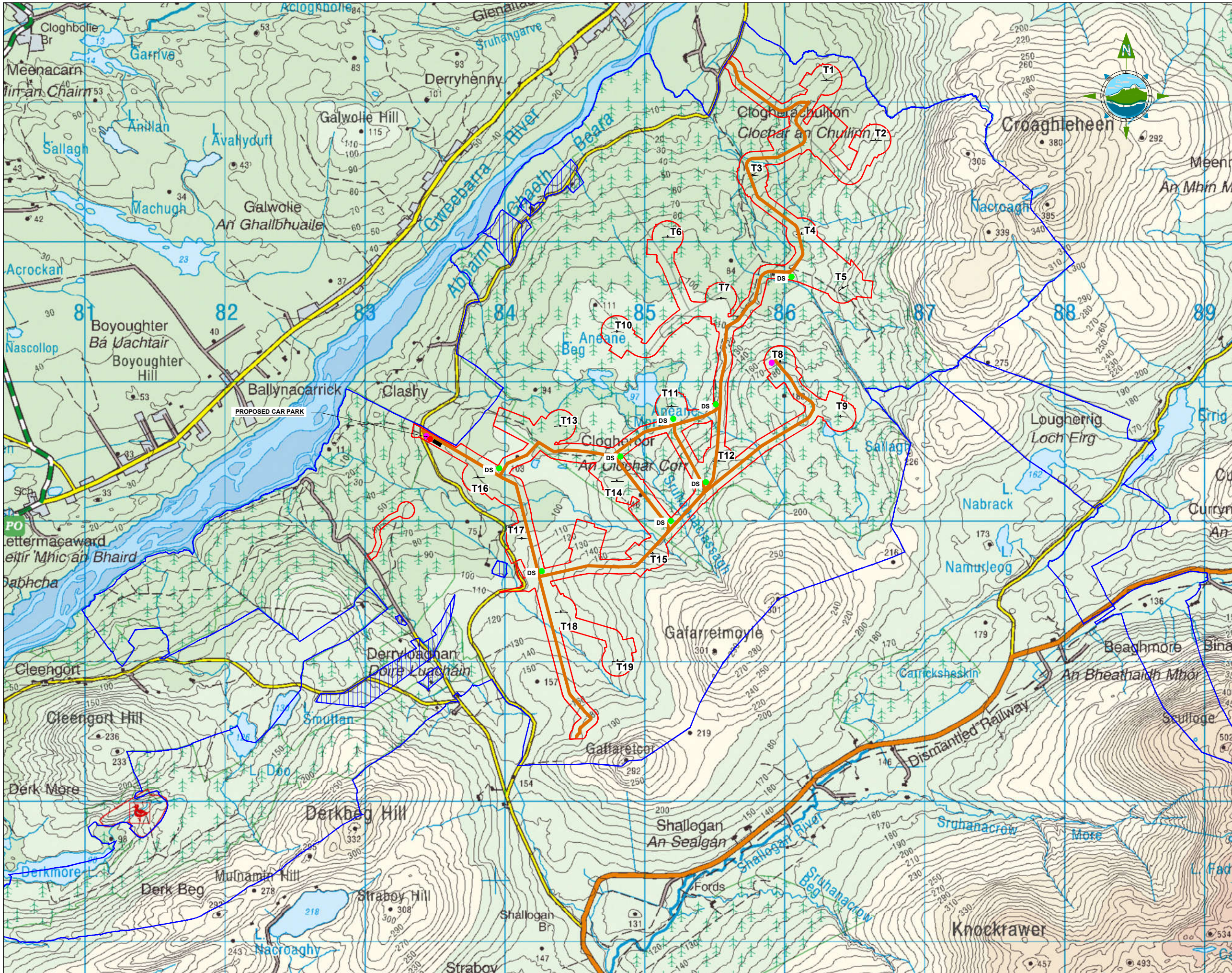
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www.tobin.ie

Revision:
A

Drawing No.: **10798-2065**

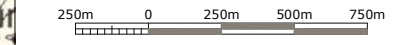
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- GENERAL LEGEND**
- PLANNING APPLICATION BOUNDARY —
 - LAND WHERE APPLICANT HAS OWNERSHIP OR BENEFICIAL INTEREST
 - AREAS EXCLUDED FROM APPLICANT OWNERSHIP OR BENEFICIAL INTEREST
 - AMENITY ACCESS TRACKS —
 - TURBINE / ENERGY INFORMATION BOARD ●
 - PICNIC AREA / BENCHES ■
 - DIRECTIONAL SIGNAGE ● DS
 - GENERAL INFORMATION BOARD ●

- NOTES:**
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

OSI 1:50,000 Sheet No's: 1636, 1636, 1638, 1640, 1838 & 1840.
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Client:
CLOGHERCOR WIND FARM LTD.

Project:
CLOGHERCOR WIND FARM

Title:
SITE AMENITY / RECREATION PLAN

Scale @ A1: **1:12,500**

Prepared by: **E. Beggs** Checked: **M. Nolan** Date: **November 22**

Project Director: **S. Tinnelly**

Drawing Status: **Planning**

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Drawing No.: **10798-2070** Revision: **A**

Map Series:
Prime Data Vector
Reference No's:
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0344, 0368, 0369
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LEGEND:-

-  Development Boundary
-  Clogherchor UCC Loop In Circuits Arrangement to Feedback shown thus
-  Clogherchor Substation shown thus
-  Clogherchor Substation Future busdable space shown thus
-  Existing 110kV OHL Network shown thus
-  Retired OHL Infrastructure
-  Access Track
-  Turbine Locations
-  Turbine Foundations

NOTES:-

This drawing is to be used only for the purpose of the planning application and is subject to detailed design.



PROJECT
**Clogherchor Wind Farm
110kV Grid Connection**

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ISSUE/REVISION

| ISSUE/REVISION | DATE | DESCRIPTION |
|----------------|----------|------------------------|
| PO3 | 02.03.23 | Issued for Information |
| PO2 | 17.02.23 | Issued for Information |
| PO1 | 11.01.23 | Issued for Information |
| PO0 | 03.10.22 | Issued for Information |
| FO1 | 23.02.21 | Issued for Information |
| FO0 | 20.07.20 | Issued for Information |

PROJECT NUMBER

05-725

SHEET TITLE

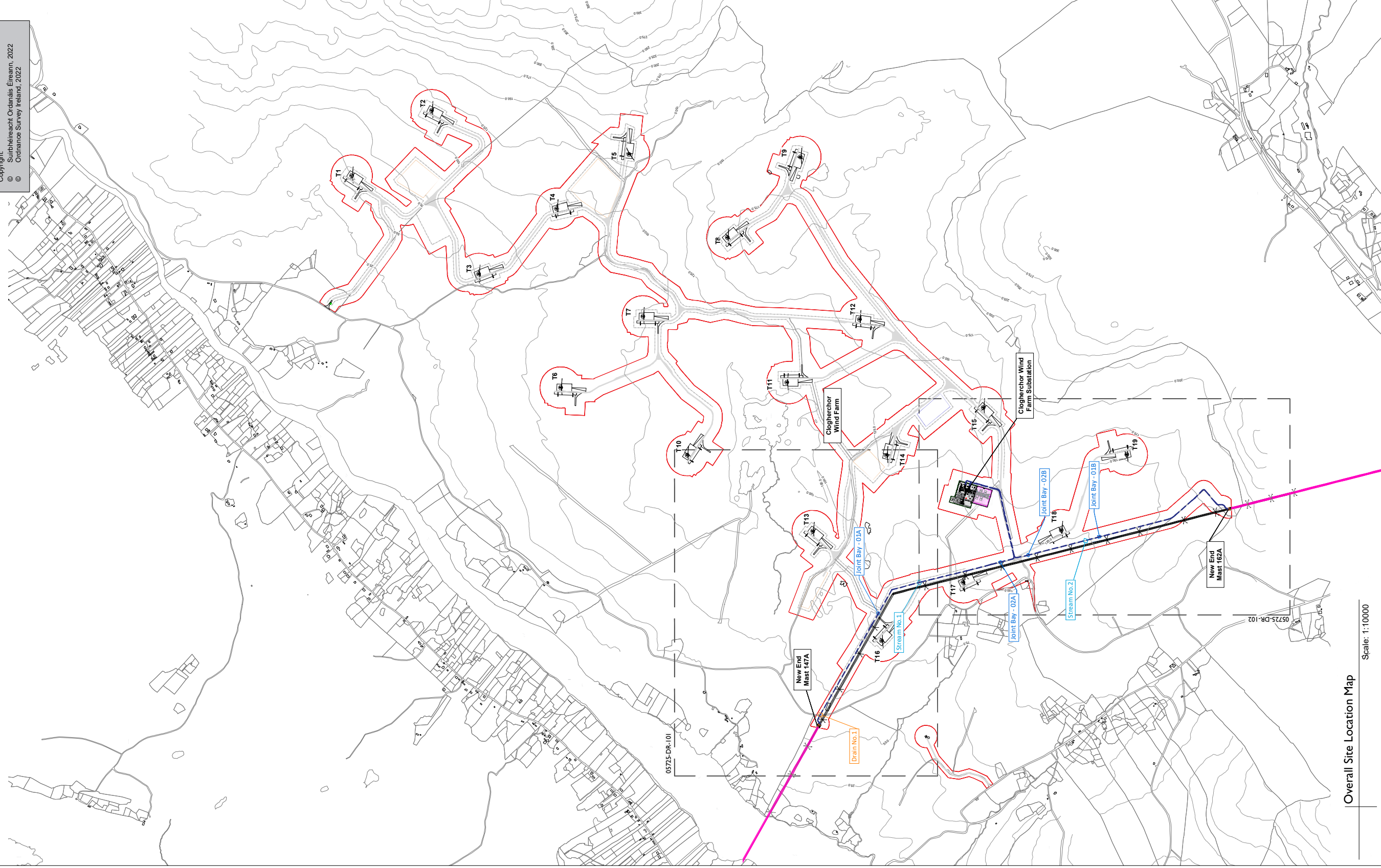
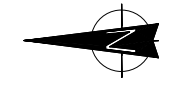
Overall Site Location Map

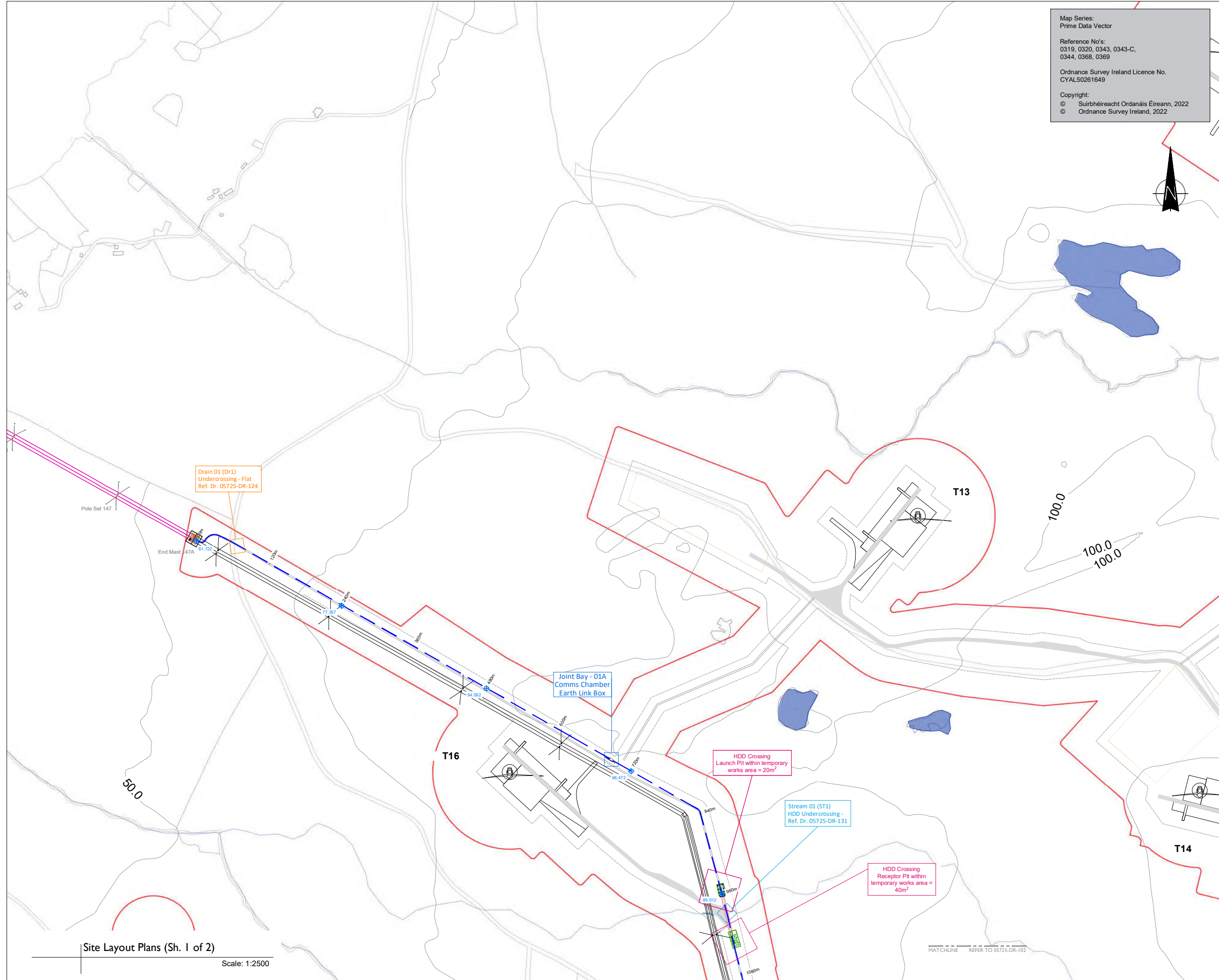
SHEET NUMBER

05725-DR-100

Overall Site Location Map

Scale: 1:10000





Map Series:
Prime Data Vector

Reference No's:
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RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

Clogherchor Wind Farm 110kV Grid Connection

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FuturaEnergy Ireland



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NOTES: -

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route.

This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

LEGEND: -

| | |
|--|--|
| Development Boundary | |
| Existing 110kV OHL Network shown thus | |
| Retired OHL Infrastructure | |
| Existing Lake, River / Stream Network shown thus | |
| Existing ESB MV/LV OHL Network shown thus | |
| Transposed Ardaghappary to Tievebrack UGC shown thus | |
| Access Track | |
| Turbine Locations | |
| Turbine Hardstands | |

ISSUE/REVISION

| IR | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P03 | 02.03.23 | Issued for Information |
| P02 | 17.02.23 | Issued for Information |
| P01 | 11.01.23 | Issued for Information |
| P00 | 03.10.22 | Issued for Information |
| F01 | 23.02.21 | Issued for Information |
| F00 | 20.07.20 | Issued for Information |

PROJECT NUMBER

05-725

SHEET TITLE

Site Layout Plans (Sh.1 of 2)

SHEET NUMBER

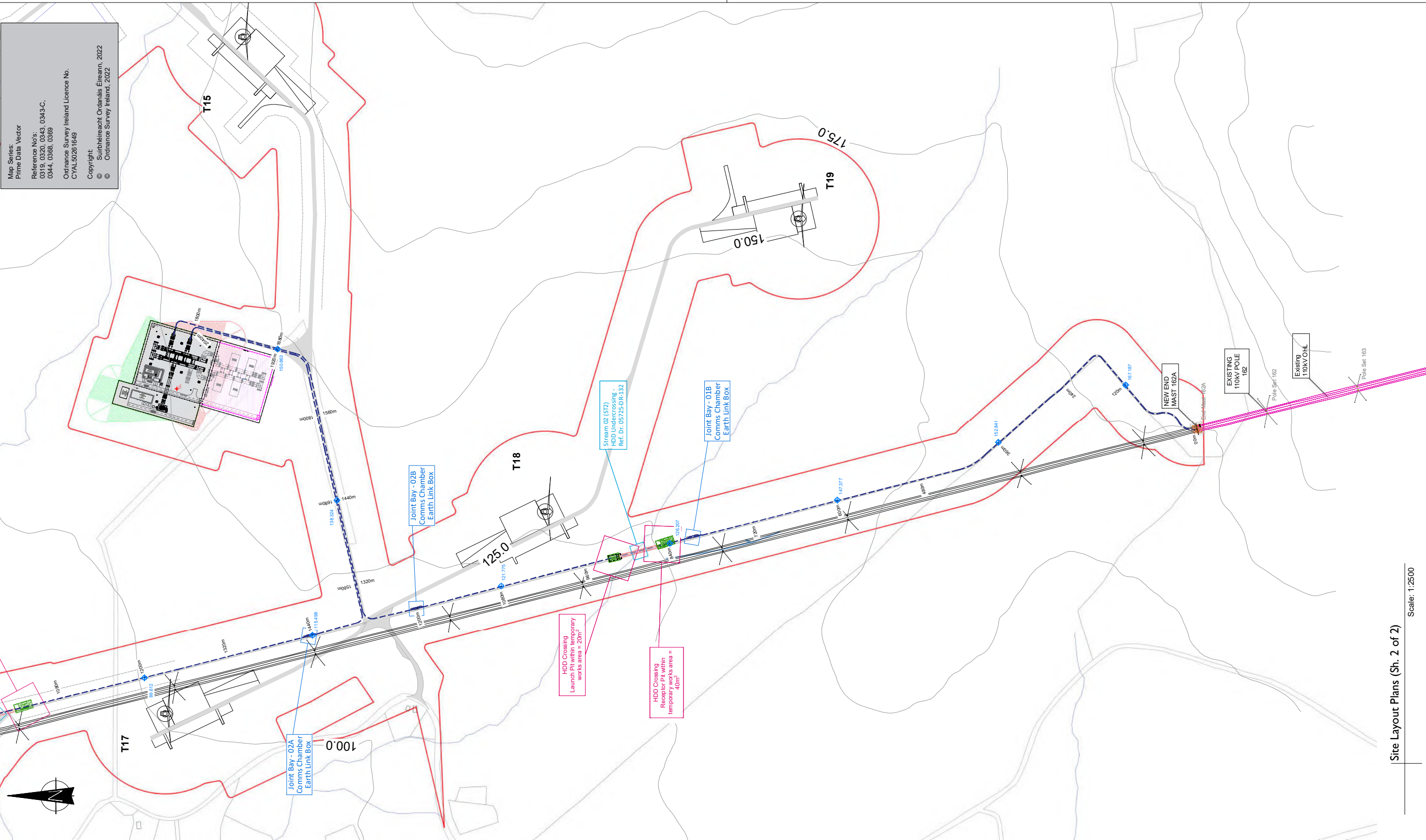
05725-DR-101

Site Layout Plans (Sh. 1 of 2)
Scale: 1:2500

LEGEND:-

- Development Boundary
- Existing 110kV & 38kV OHL Network shown thus
- Retired OHL Infrastructure
- Existing Lake, River / Stream Network shown thus
- Proposed Ardgappary to Tiewoback LDC shown thus
- Cur Area shown thus
- FI Area shown thus
- Access Track
- Turbine Locations
- Turbine Hardstands

Map Series:
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NOTES:-

Path of cable route and location of associated Light Bays, Line Boxes and Comms Chambers may vary depending on site conditions.
Other services may be encountered along the route.
This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

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PROJECT
**Clogherchor Wind Farm
110kV Grid Connection**

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| PO1 | 11.01.23 | Issued for Information |
| PO0 | 03.10.22 | Issued for Information |
| FO1 | 23.02.21 | Issued for Information |
| FO0 | 20.07.20 | Issued for Information |
| IFR | DATE | DESCRIPTION |

PROJECT NUMBER

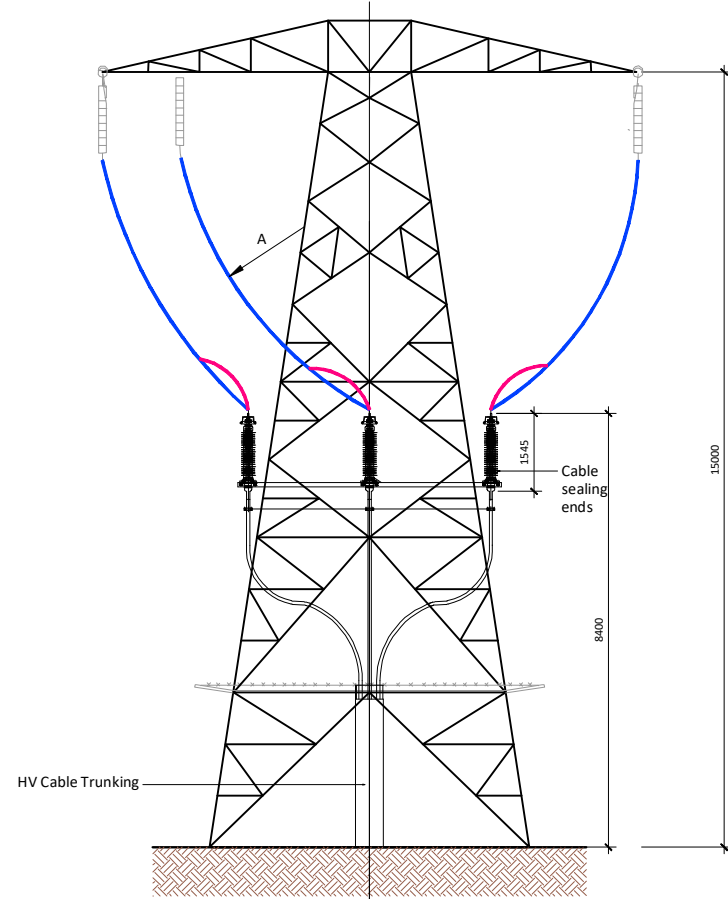
05-725

SHEET TITLE

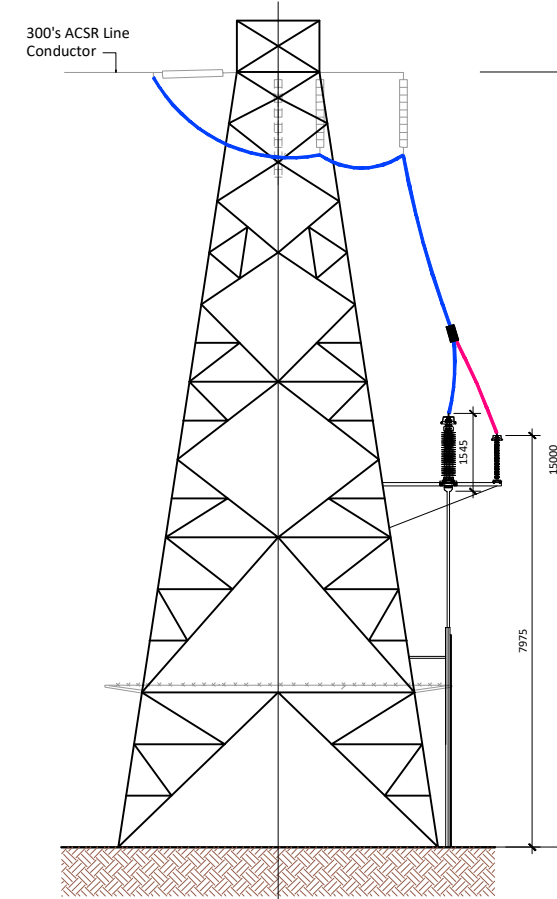
Site Layout Plans (Sh.2 of 2)

SHEET NUMBER

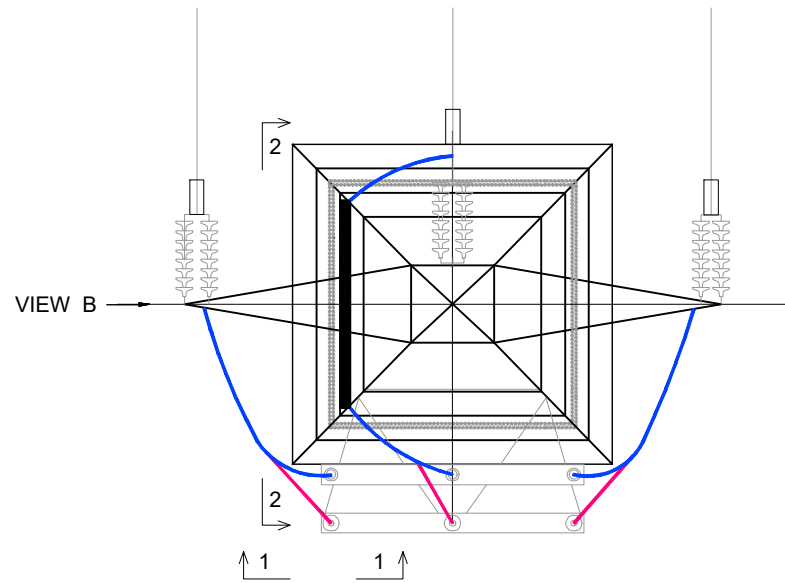
05725-DR-102



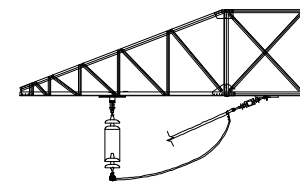
FRONT ELEVATION
(Rear Platform Removed for Clarity)



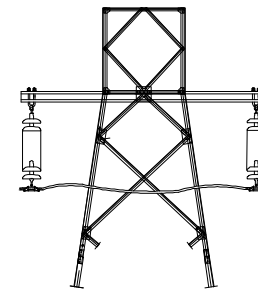
SIDE ELEVATION



PLAN VIEW



SECTION 1-1



SECTION 2-2

PROJECT

**Clogherchor
Wind Farm 110kV
Grid Connection**

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NOTES: -

LEGEND: -

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| P01 | 11.01.23 | Issued for Information |
| P00 | 30.09.22 | Issued for Information |

PROJECT NUMBER

05-725

SHEET TITLE

1493ET/LC excl.
SW End Mast Details

SHEET NUMBER

05725-DR-107

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in metres, unless noted otherwise
- Drawings are not to scale, use figured dimensions only.
- Drawing to be read in conjunction with Construction Methodology.

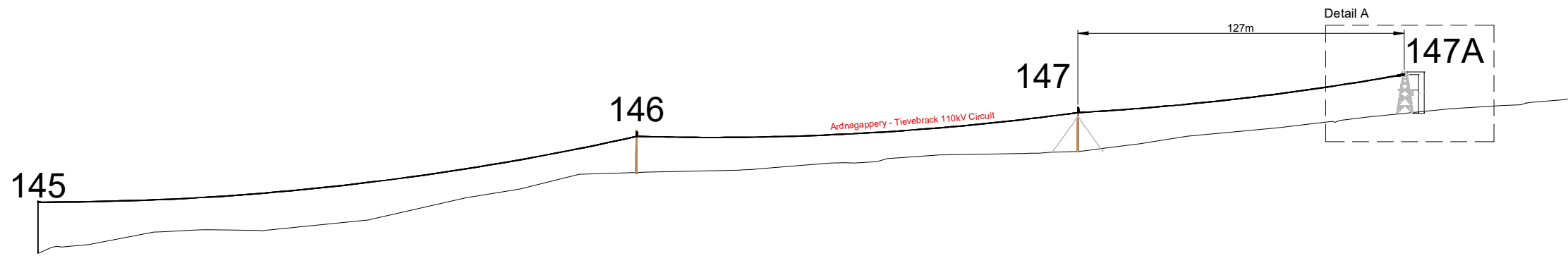
Infrastructure to be retained

| IR | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P01 | 11.01.23 | Issued for Information |
| P00 | 30.09.22 | Issued for Information |

05-725

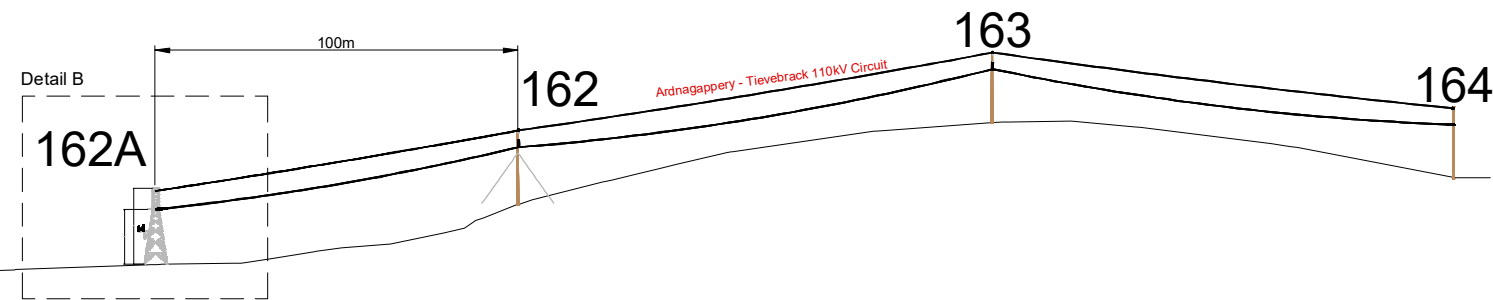
Sections View Final Configuration

05725-DR-108



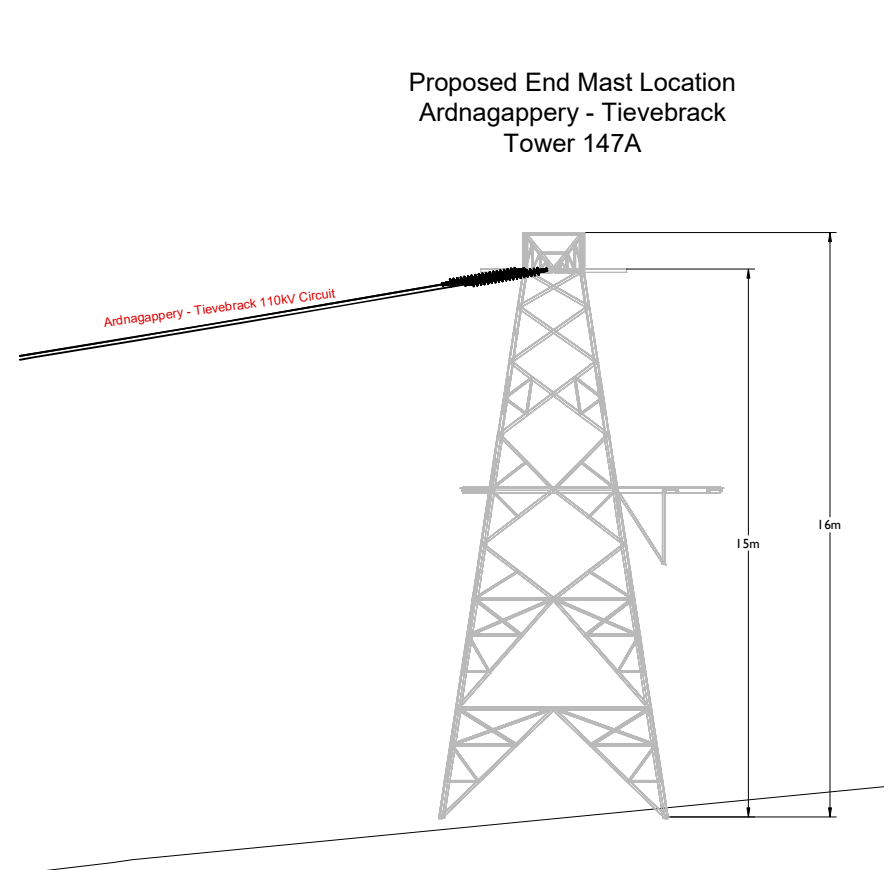
Section Through Proposed End Mast Locations

Scale : 1:1000



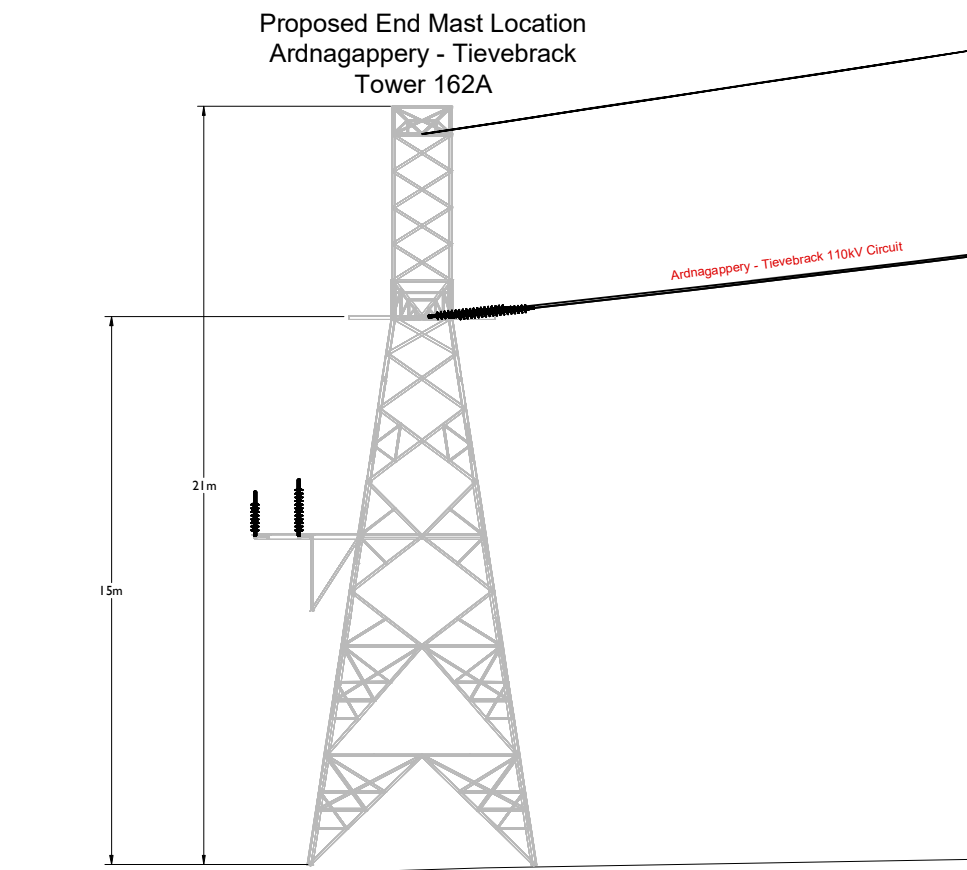
Section Through Proposed End Mast Locations

Scale : 1:1000



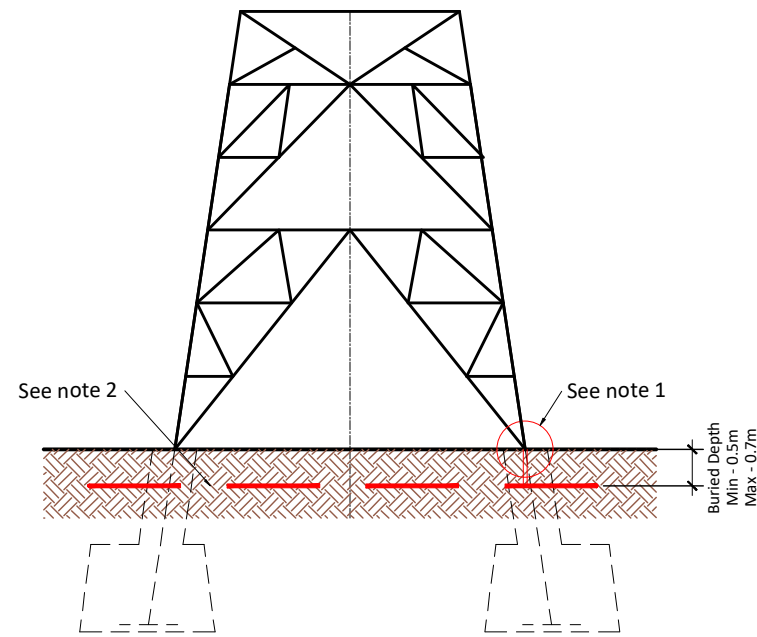
Detail A

Scale : 1:100

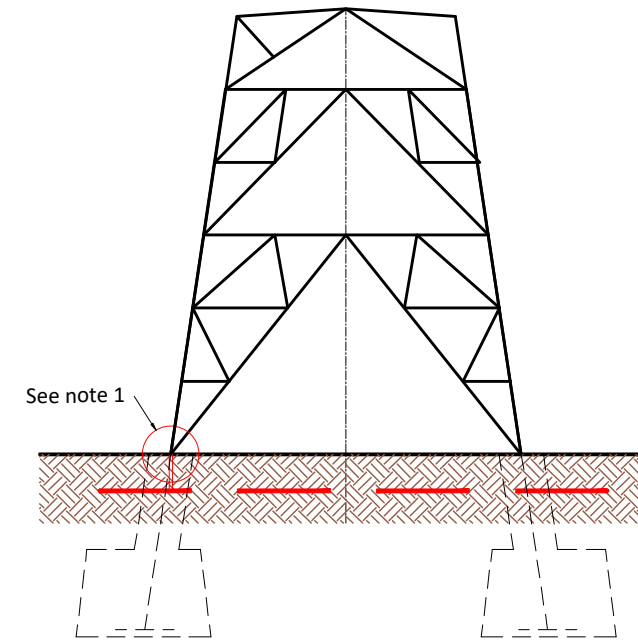


Detail B

Scale : 1:100



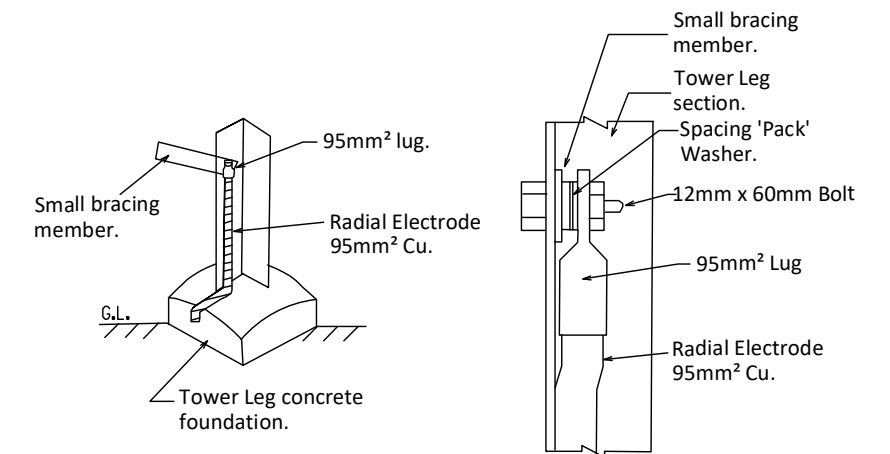
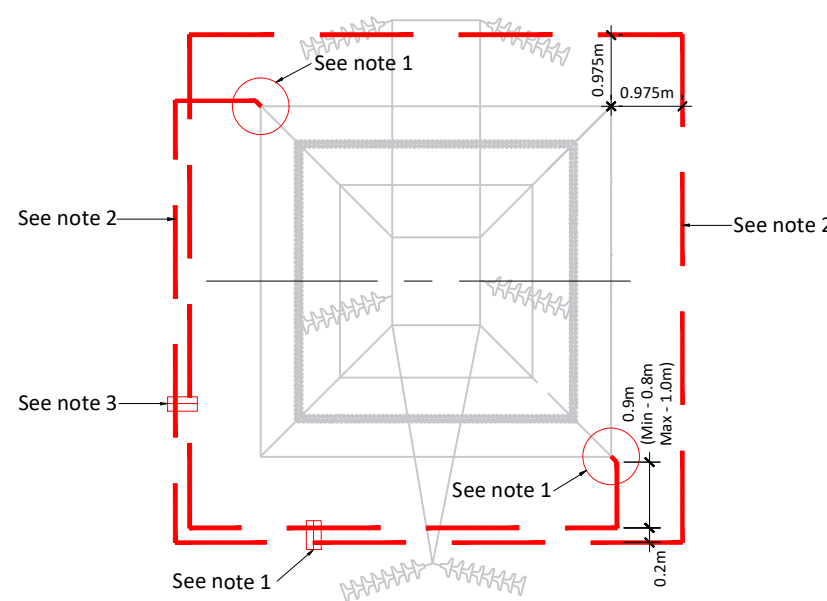
| PARALLEL GROOVE CLAMP | |
|-----------------------|---------|
| ITEM | CODE |
| 95CU | 1183031 |
| 200ACSR | 1183036 |
| 300ACSR | 1183035 |



EARTH RING DETAILS - NTS

NOTES:

- 1: Earth Ring bolt fixed to 1493ET L/C Mast by Radial Electrode at Left Mast Leg - Longitudinal Face and Right Mast Leg - Transversal Face . (indicated by circle). For details of the earth connection points please refer to manufacturers specification. Overground earth connection insulated.
- 2: Earth system consists of Radial Electrode (Potential Control Ring -95mm² Cu/200/300ACSR) laid into trench.
- 3: Parallel Groove Clamps. If using 95mm² Cu copper Electrode, copper inserts required between clamp and electrode.



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PROJECT
 Clogherchor Wind Farm
 110kV Grid Connection

PROJECT NUMBER
 05-725

SHEET NUMBER
 05725-DR-109

SHEET TITLE
 Type 1493ET L/C Tower
 Earth Ring Details

DRAWING STATUS
 For Information

ISSUE/REVISION

| I/R | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P01 | 11.01.23 | Issued for Information |
| P00 | 30.09.22 | Issued for Information |

LEGEND:-

| | |
|--|---|
| | Proposed Levels shown thus |
| | Cloghercor UGC Loop In Circuits Arrangements to be shown thus |
| | Permanent Internal Access tracks shown thus |
| | Cloghercor Substation shown thus |
| | Cloghercor Substation Future buildable space shown thus |
| | Existing Levels shown thus |

NOTES:-
See General Notes



Regional Office
Basepoint Business Centre
Stoudeley Road, Basingstoke,
Hampshire, UK
RG24 9JL
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Fax: 03353 66 7135710

PROJECT
Cloghercor Wind Farm
110kV Grid Connection

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| PO1 | 11.01.23 | Issued for Information |
| PO0 | 03.10.22 | Issued for Information |

PROJECT NUMBER

05-725

SHEET TITLE

Substation Layout Plan

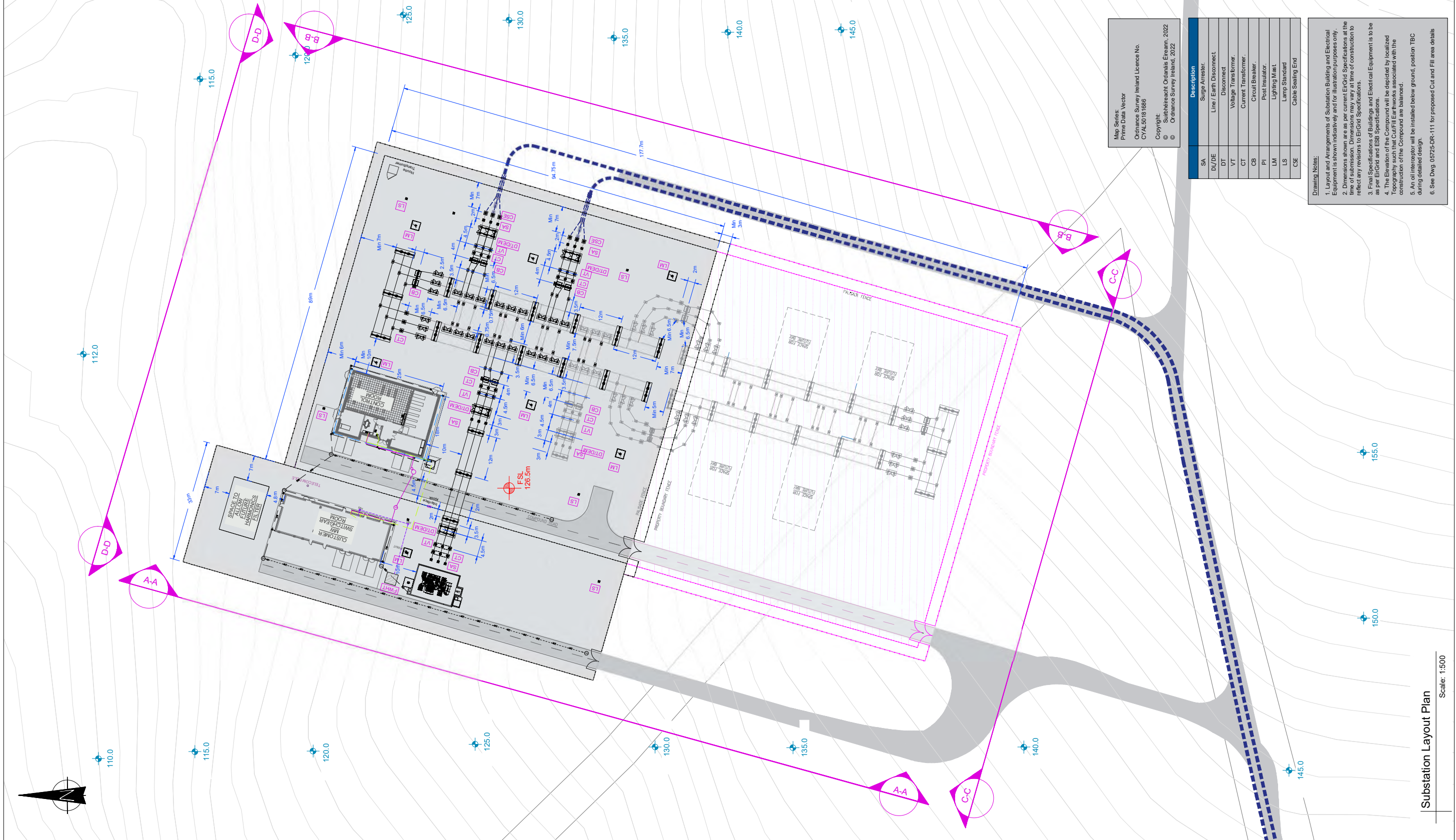
SHEET NUMBER

05725-DR-110

Substation Layout Plan

Scale: 1:500

ISO A1 594mm x 841mm



Map Series:
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| SA | DT/DE | VT | CT | CB | PI | LM | LS | CSE |
|-----------------|-------------------------|------------|---------------------|---------------------|-----------------|----------------|---------------|-------------------|
| Surge Arresters | Line / Earth Disconnect | Disconnect | Voltage Transformer | Current Transformer | Circuit Breaker | Post Insulator | Lighting Mast | Lamp Standard |
| | | | | | | | | Cable Sealing End |

- Drawing Notes:**
1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
 2. Dimensions shown are as per current EirGrid Specifications at the time of construction to reflect any revisions to EirGrid Specifications.
 3. Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
 4. The Elevation of the Compound will be depicted by localized Topographic Contours associated with the construction of the Compound are balanced.
 5. An oil interceptor will be installed below ground, position TBC during detailed design.
 6. See Dwg. 05725-DR-111 for proposed Cut and Fill area details

PROJECT

**Clogherchor Wind Farm
110kV Grid Connection**

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NOTES:-

1. Finished Floor Level (FFL) to local DATUM.
2. The Elevation of the Compound is depicted by localised Topography such that the Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND:-

Cut Area shown thus 

Fill Area shown thus 

ISSUE/REVISION

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| P01 | 11.01.23 | Issued for Information |
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| I/R | DATE | DESCRIPTION |

PROJECT NUMBER

05-725

SHEET TITLE

Cut and Fill Area
Layout Plan

SHEET NUMBER

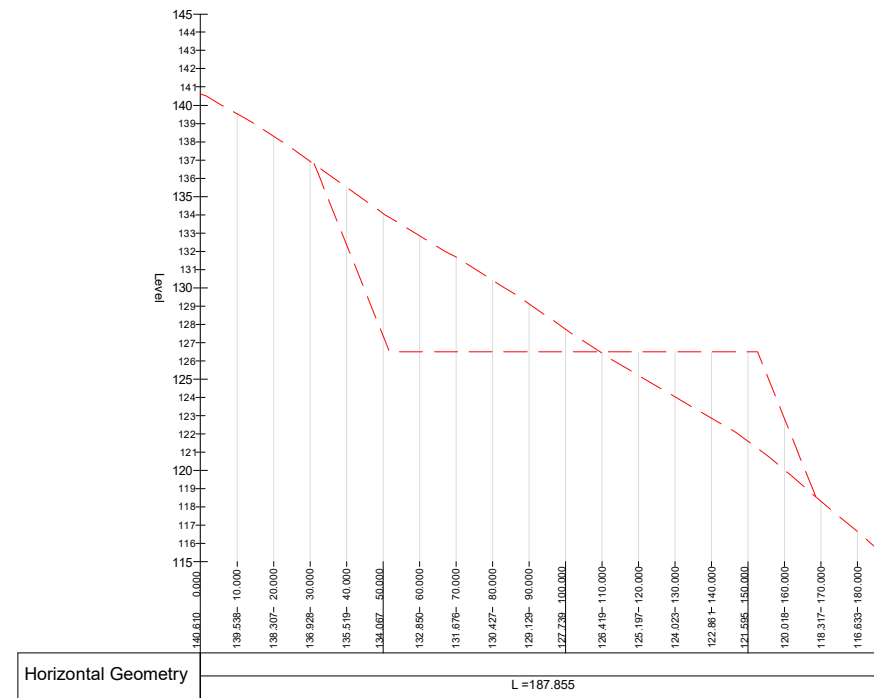
05725-DR-111

Compound Level 126.5m
Cut Volume 47968m³
Fill Volume 48132m³

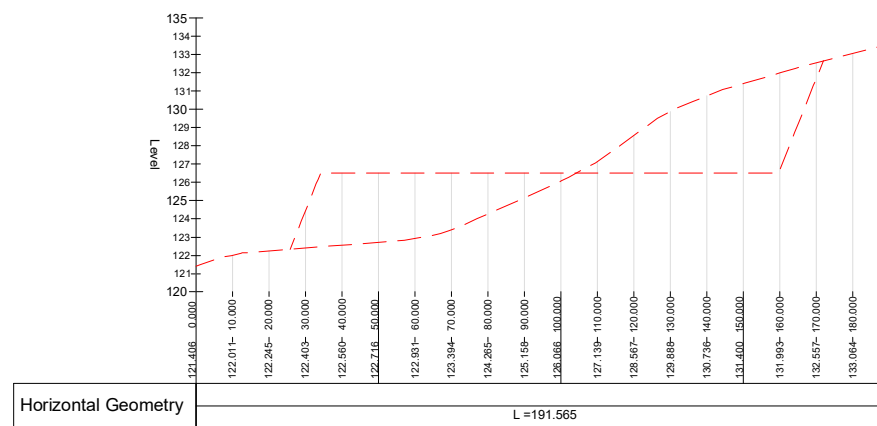
Cut and Fill Layout Plan
Scale : 1:500

Map Series:
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SECTION A-A - LONGSECTION
SCALE: H 1:500, V 1:100, DATUM: 115.000



SECTION B-B 1 - LONGSECTION
SCALE: H 1:500, V 1:100, DATUM: 120.000



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PROJECT
**Clogherchor Wind Farm
110kV Grid Connection**



- NOTES: -
- Cut & Fill gradients indicated are at a 2:1 ratio. Further slope stability works may be required to achieve this gradient on site, pending ground investigation and detailed design
 - This drawing is to be read in conjunction with relevant drawings, specifications and reports
 - Dimensions are in metres, unless noted otherwise
 - Drawings are not to be scaled use figured dimensions only

LEGEND: -

Existing Levels shown thus - - - - -

Proposed Levels shown thus - - - - -

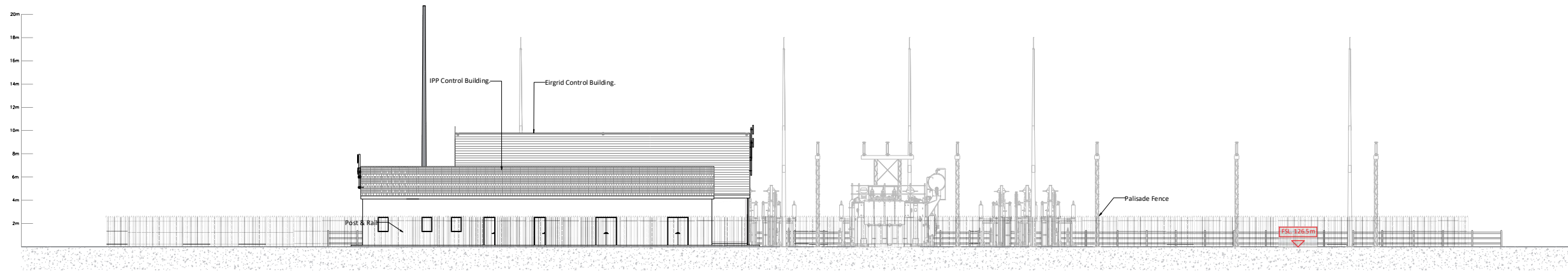
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| P00 | 10.01.2023 | Issued for Information |

PROJECT NUMBER
05-725

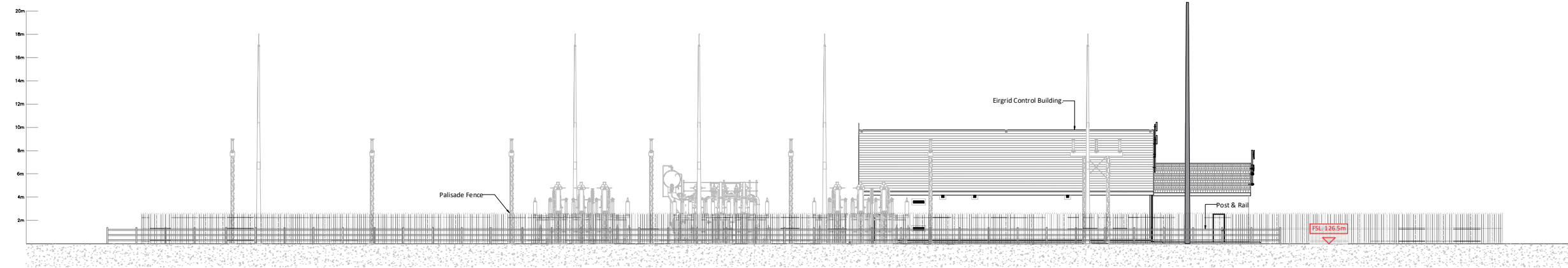
SHEET TITLE
**Compound Sections
Cut and Fill Areas**

SHEET NUMBER
05725-DR-112



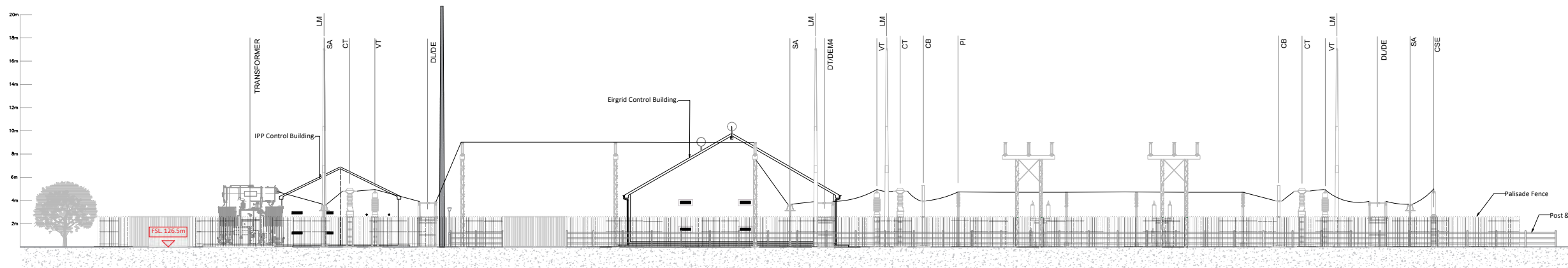
A - A Elevation (Section View)

Scale : 1:200



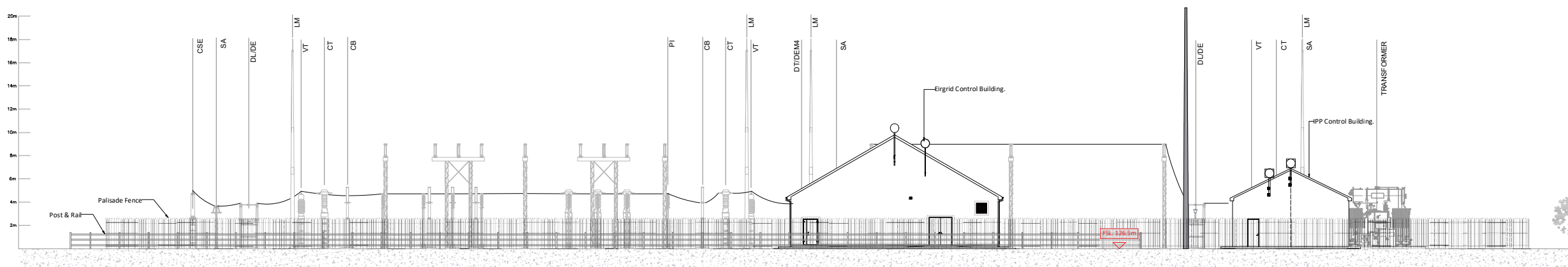
B - B Elevation (Section View)

Scale : 1:200



C - C Elevation (Section View)

Scale : 1:200



D - D Elevation (Section View)

Scale : 1:200

- NOTES:-**
1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
 2. Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
 3. Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
 4. The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND:-

| Description | Description |
|-------------|--------------------------|
| SA | Surge Arrester. |
| DU/DE | Line / Earth Disconnect. |
| DT | ESB Disconnect |
| VT | Voltage Transformer. |
| CT | Current Transformer. |
| CB | Circuit Breaker. |
| PI | Post Insulator. |
| LM | Lighting Mast |
| CSE | Cable Sealing End |

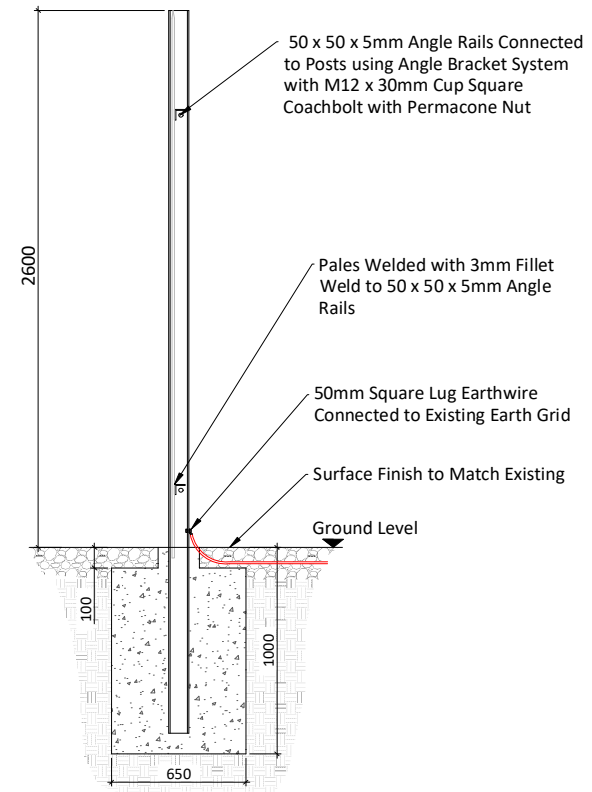
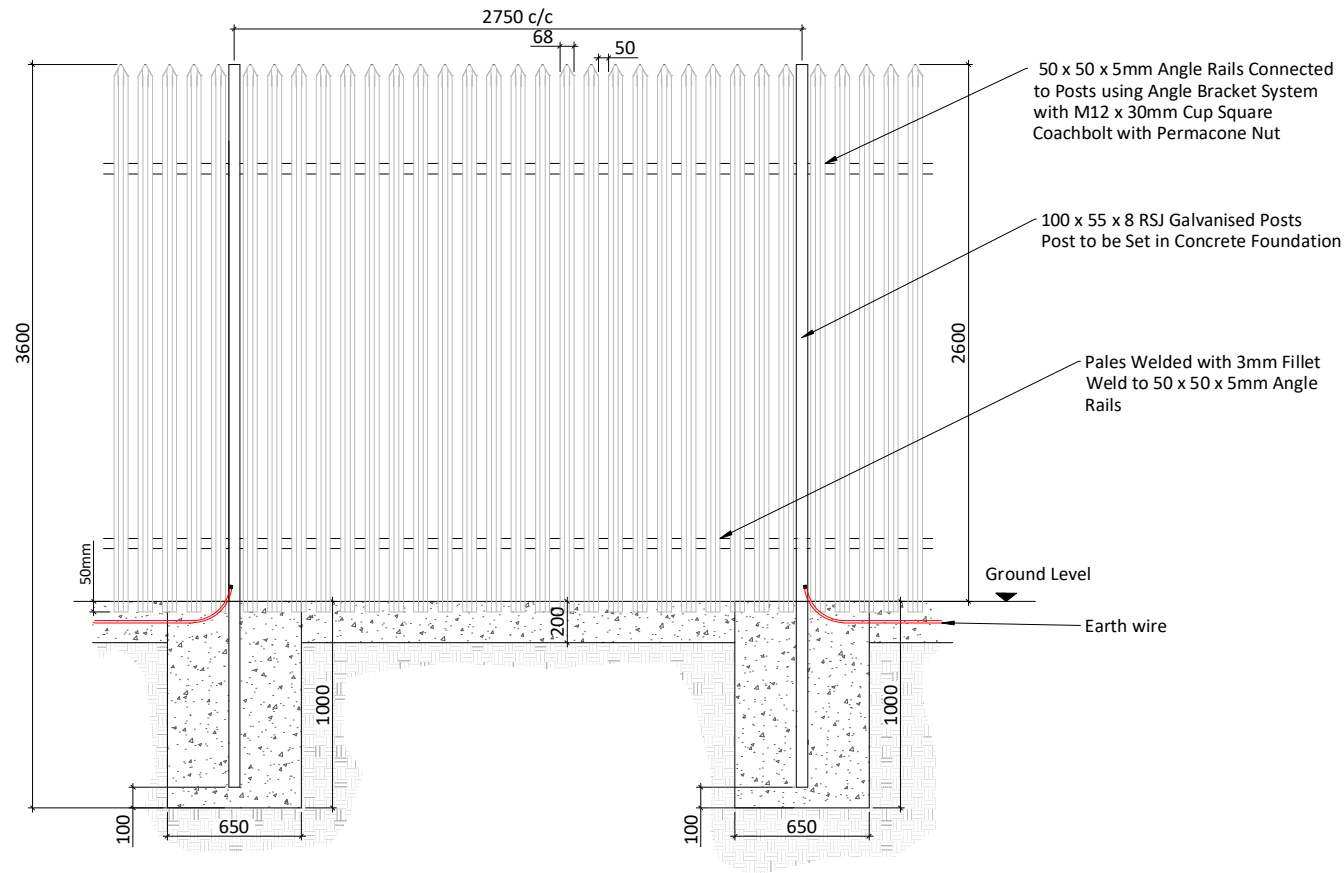
ISSUE/REVISION

| U/R | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P01 | 11.01.23 | Issued for Information |
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PROJECT NUMBER
05-725

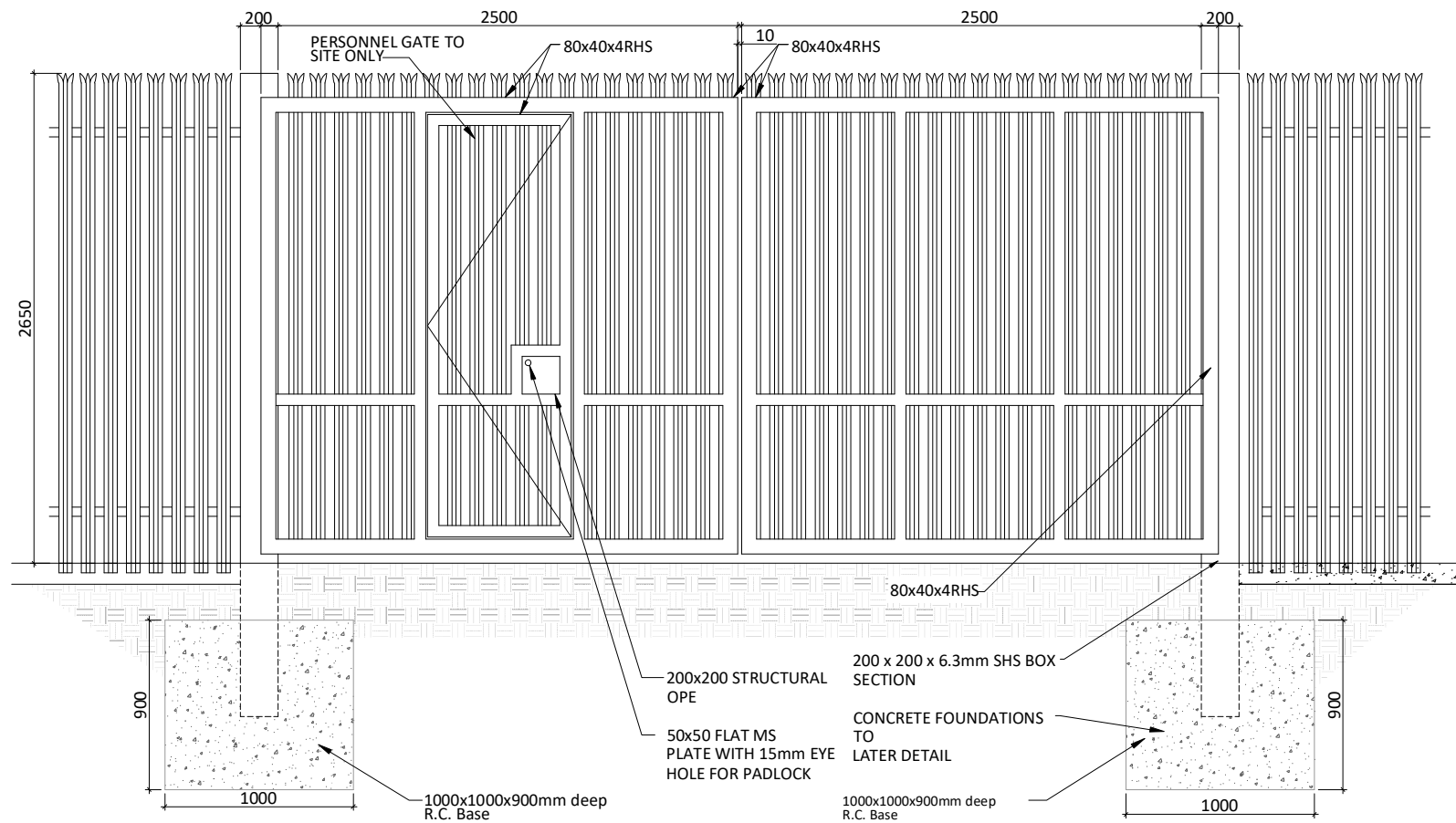
SHEET TITLE
Substation Compound Elevations

SHEET NUMBER
05725-DR-113



Palisade Fencing Details - Elevation
SCALE 1:25

Palisade Fencing Details - Section
SCALE 1:25



Typical Gate Elevation
SCALE 1:25

PROJECT

**Clogherchor Wind Farm
110kV Grid Connection**

CLIENT

FuturaEnergy Ireland

CONSULTANTS

TOBIN
CONSULTING ENGINEERS

NOTES: -

LEGEND: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimetres, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

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PROJECT NUMBER

05-725

SHEET TITLE

Gate & Fence Details

SHEET NUMBER

05725-DR-114

PROJECT

Clogherchor Wind Farm
 110kV Grid Connection

CLIENT

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NOTES: -

- This drawing is to be read in conjunction with relevant engineering drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

LEGEND: -

ISSUE/REVISION

| IR | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P01 | 11.01.23 | Issued for Information |
| P00 | 03.10.22 | Issued for Information |

PROJECT NUMBER

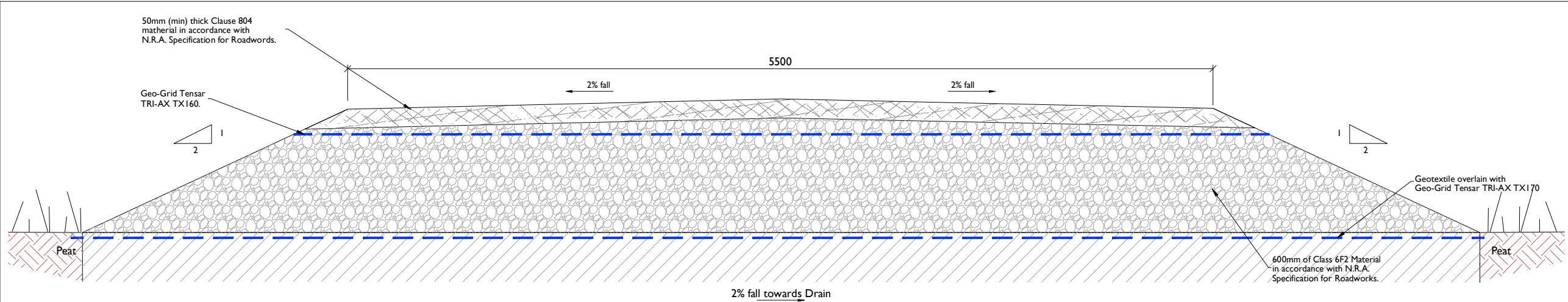
05-725

SHEET TITLE

Site Compound Details
 & Access Road Details.

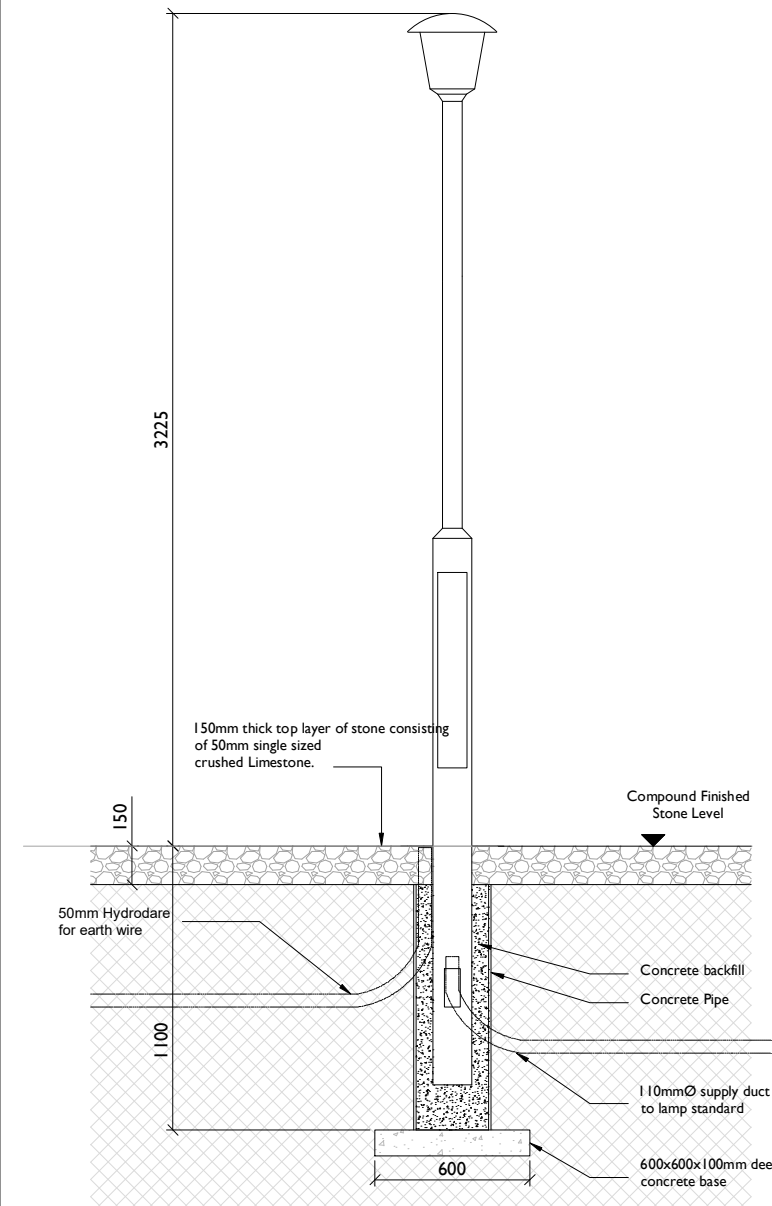
SHEET NUMBER

05725-DR-115



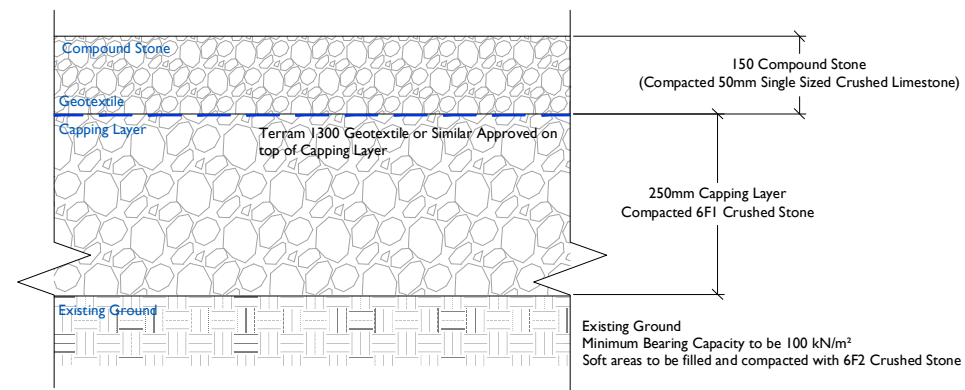
Typical Section Thru Access Road (Floating Road Detail)

SCALE 1:20



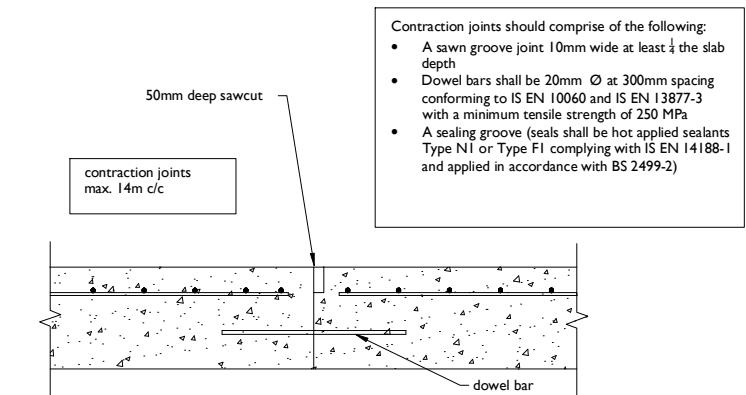
Lighting Column & Surround Detail

SCALE 1:20



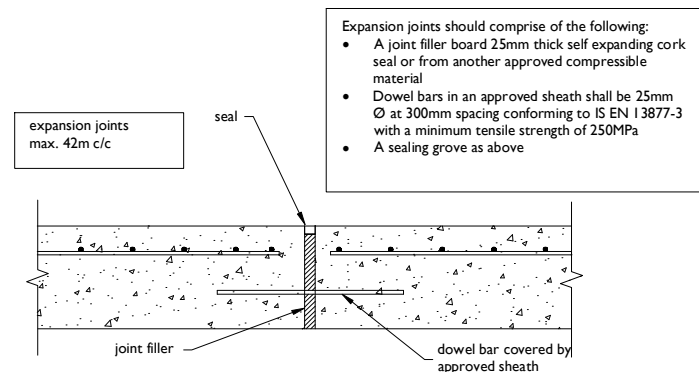
Typical Compound Detail

SCALE 1:10



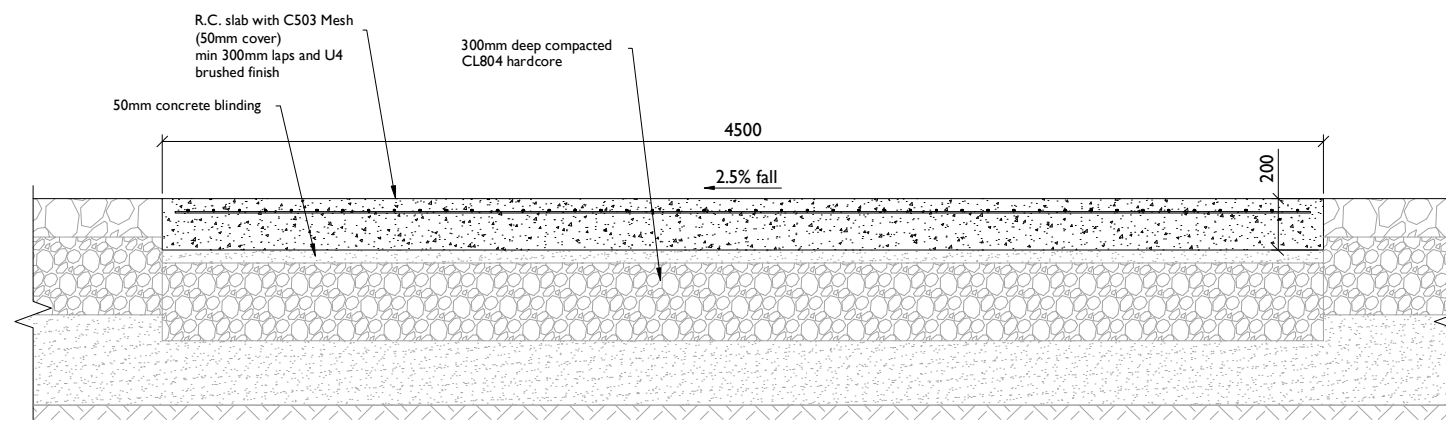
Concrete Access Road Contraction Joint

SCALE 1:10



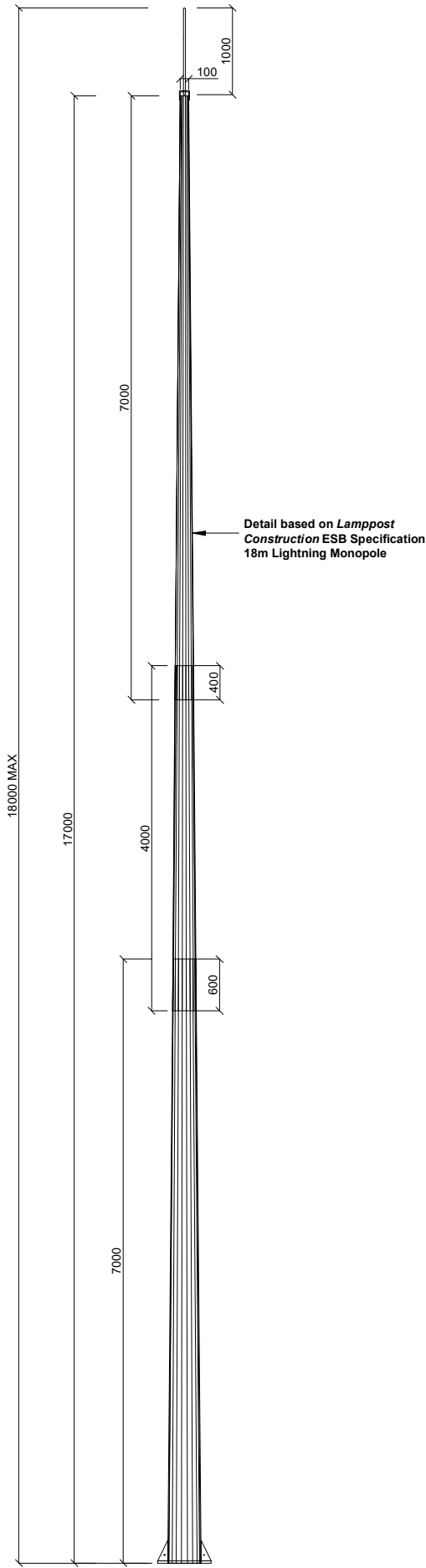
Concrete Access Road Expansion Joint

SCALE 1:10

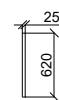
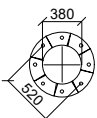


Typical Section - Concrete Access Road

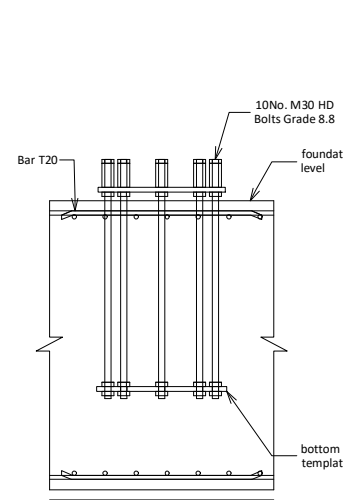
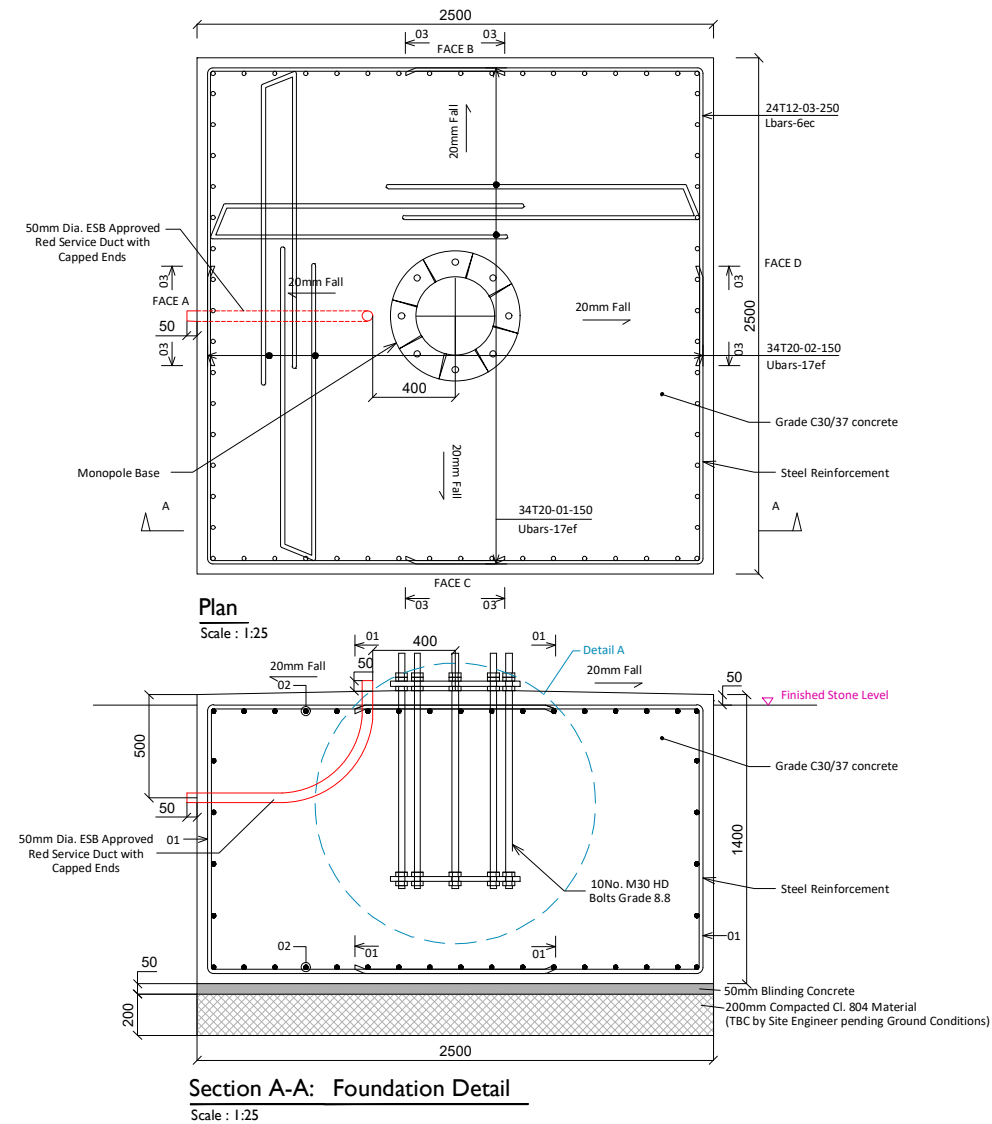
SCALE 1:20



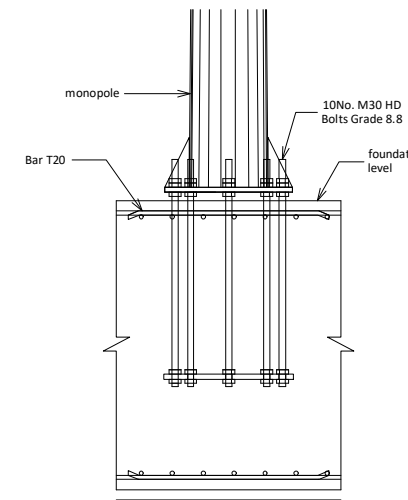
Monopole Details
Scale : 1:50



Foundation Details



Detail A
Scale : 1:25



Monopole Base Plate to HDB Connection
Scale : 1:25

GENERAL NOTES:

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL ENGINEERS AND ARCHITECTS DRAWINGS
 2. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2002 WITH THE MIX DESIGNS SHOWN IN TABLE 1
 3. CONCRETE FINISHES TO BE IN ACCORDANCE WITH TABLE 6.1 OF THE ESBI SPECIFICATION CS17-S01-005.
 4. ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH B54449 AND SCHEDULED IN ACCORDANCE WITH BS.8666. 300MM LAPS FOR A142 MESH 600MM MIN LAPS FOR A393 MESH.
 5. REFER ALWAYS TO RELEVANT EARTH GRID DRAWING PRIOR TO EXCAVATIONS & CONCRETE POURS
 6. GEOMETRICAL TOLERANCES TO BE IN ACCORDANCE WITH TABLE 6.2 OF ESBI SPECIFICATION CS17-S01-005
- FOUNDATION NOTES:**
7. GROUND TO HAVE A MINIMUM BEARING CAPACITY OF 100 kN/M².
 8. FORMATION LEVEL AND FOUNDATIONS TO BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONCRETE BEING POURED.
 9. ALL FOUNDATIONS ARE TO BE BLINDED IMMEDIATELY AFTER EXCAVATION WITH 50MM OF C16/20 CONCRETE BLINDING.
 10. REFER ALWAYS TO THE RELEVANT EARTH WORK DRAWINGS PRIOR TO EXCAVATIONS & CONCRETE POURS.



Head Office
Beenreigh, Abbeydorney,
Tralee, Co. Kerry, Ireland
Tel: 00353 66 7135710

PROJECT

**Clogherchor Wind Farm
110kV Grid Connection**

CLIENT



CONSULTANTS



NOTES: -

- This drawing is to be read in conjunction with relevant engineering drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

LEGEND: -

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PROJECT NUMBER

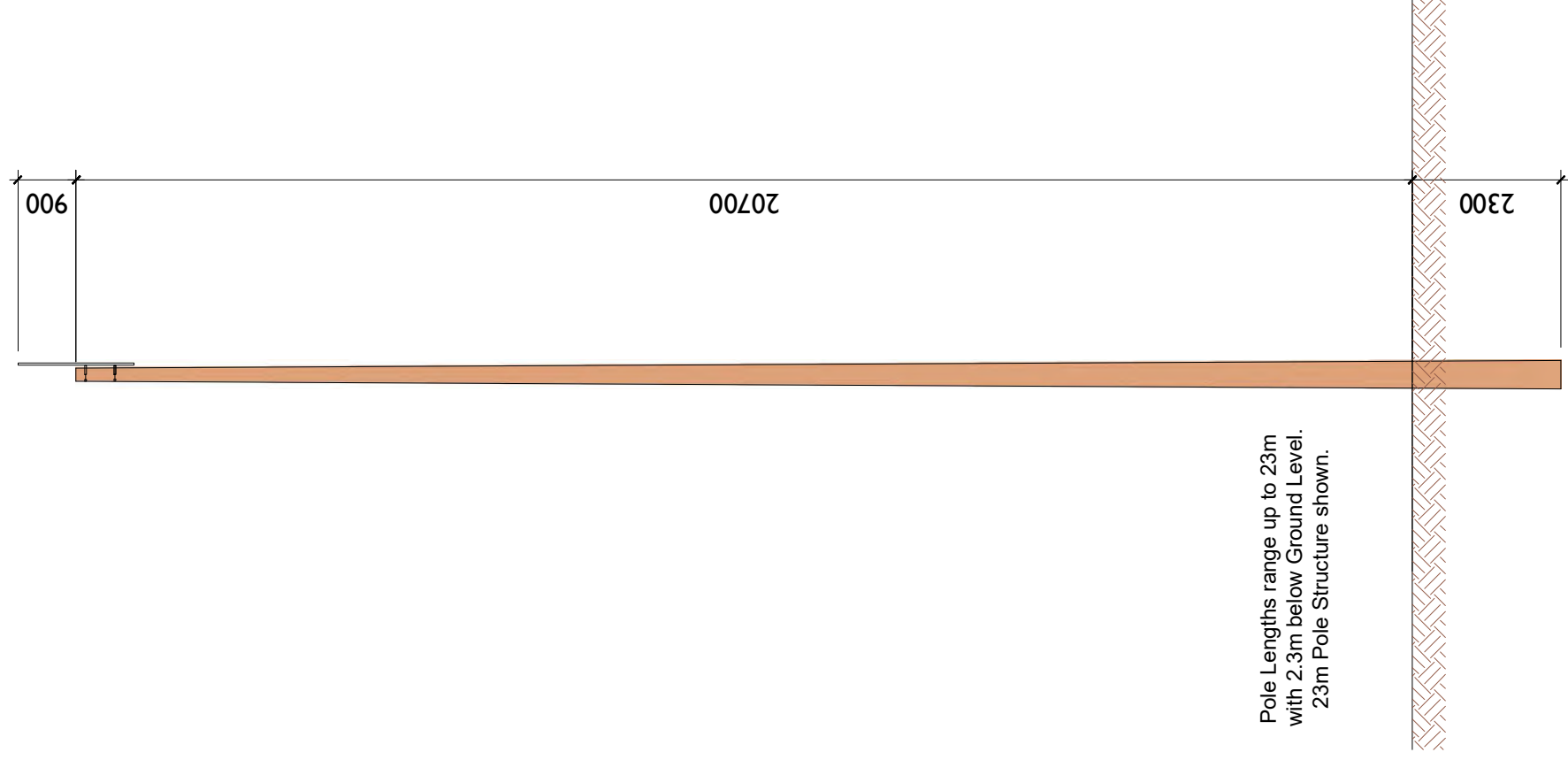
05-725

SHEET TITLE

Lightning Monopole Foundation
Details-18m Masts

SHEET NUMBER

05725-DR-116



FRONT ELEVATION

Scale 1:100



Head Office
 Beenreigh,
 Abbeydorney,
 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

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SHEET TITLE
 Telecoms Pole Elevation View

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| I/R | DATE | DESCRIPTION |
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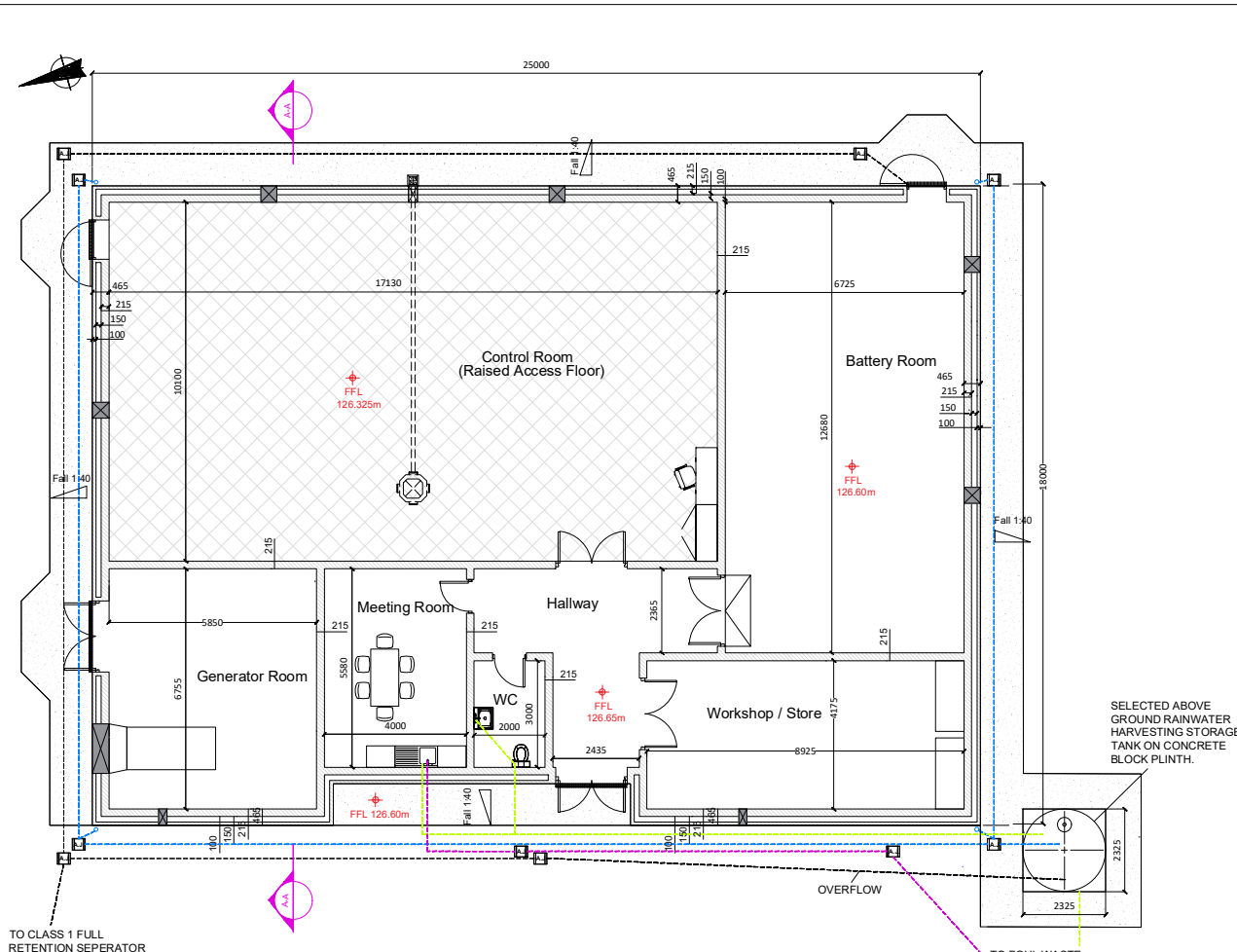
PROJECT
 Clogherchor Wind Farm
 110kV Grid Connection

DRAWING STATUS
 Issued for Information

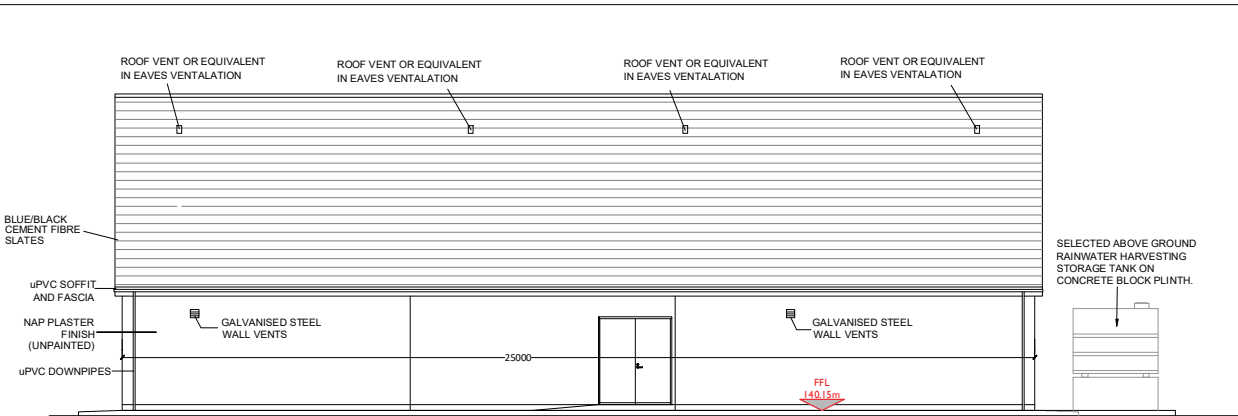
PROJECT NUMBER
 05-725

SHEET NUMBER
 05725-DR-117

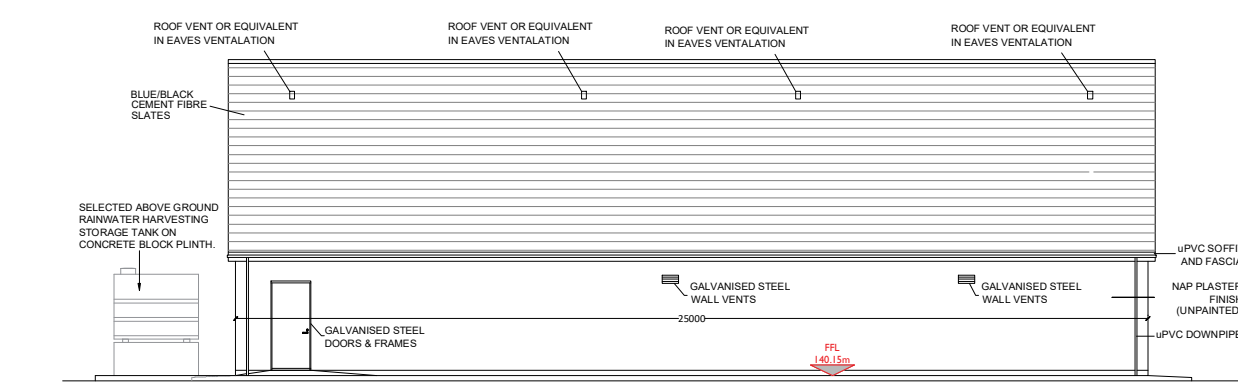
LEGEND/NOTES:-
 All dimensions in mm unless noted otherwise



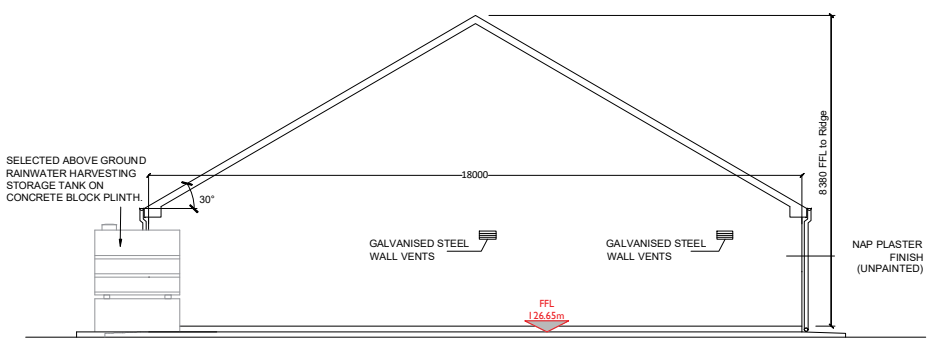
PLAN - CONTROL BUILDING
Scale : 1:100



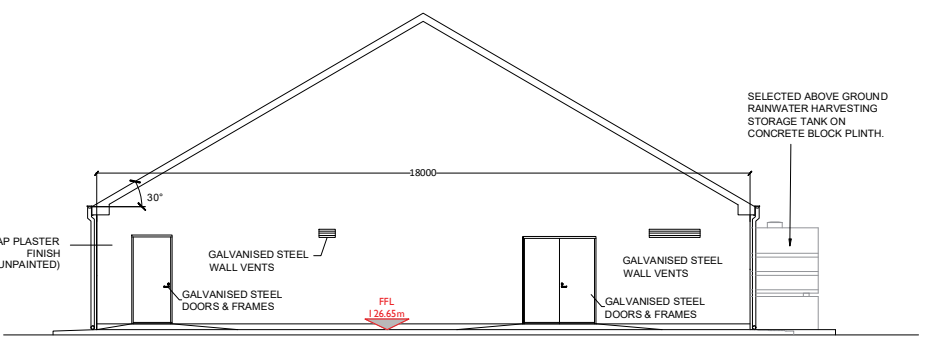
FRONT ELEVATION
Scale : 1:100



REAR ELEVATION
Scale : 1:100

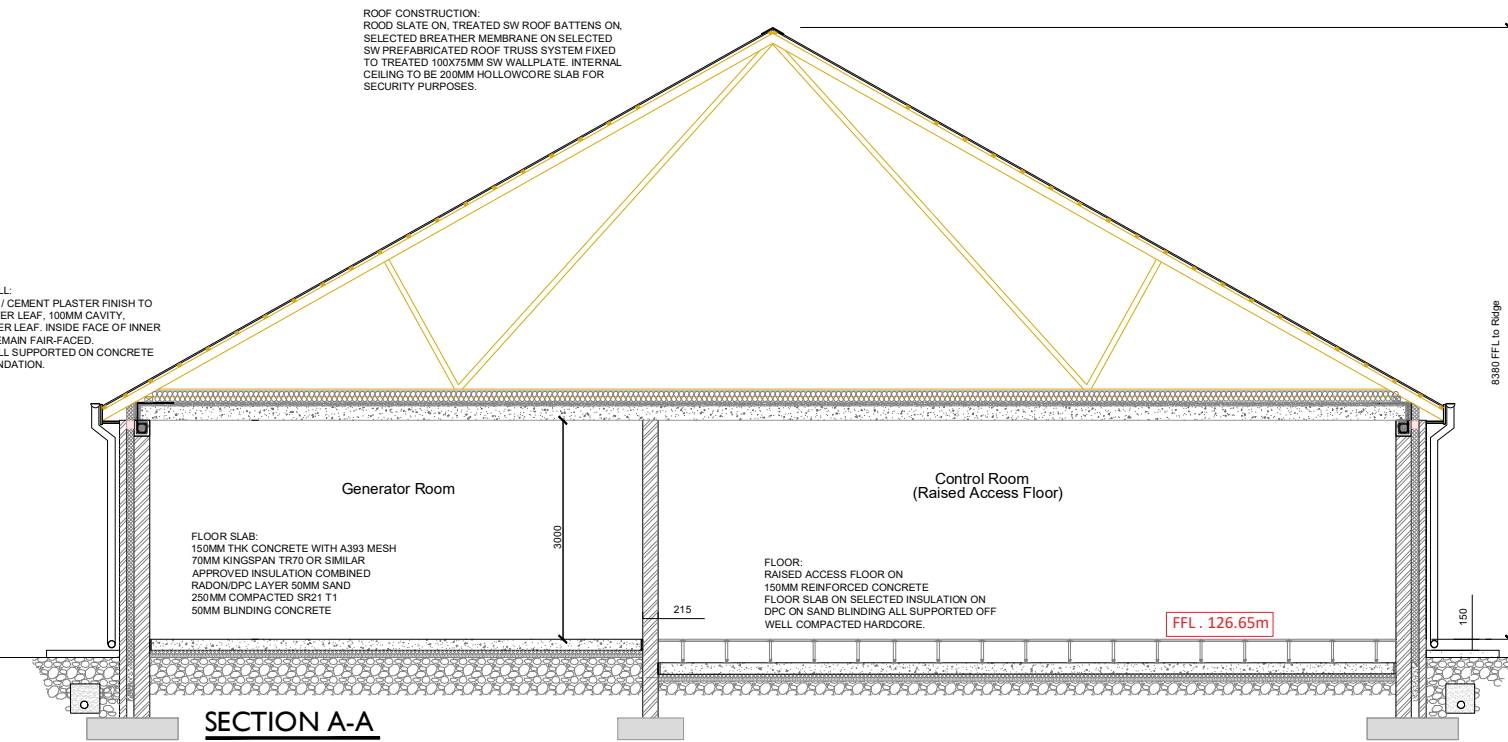


RIGHT SIDE ELEVATION
Scale : 1:100



LEFT SIDE ELEVATION
Scale : 1:100

CAVITY WALL:
FLAT SAND / CEMENT PLASTER FINISH TO
100MM OUTER LEAF, 100MM CAVITY,
215MM INNER LEAF. INSIDE FACE OF INNER
LEAF TO REMAIN FAIR-FACED.
CAVITY WALL SUPPORTED ON CONCRETE
STRIP FOUNDATION.



SECTION A-A
Scale : 1:50

- NOTES:-**
- Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
 - Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
 - Final Specifications of Buildings and Electrical Equipment is to be as per Eirgrid and ESB Specifications.
 - The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

- LEGEND:-**
- Proposed Levels shown thus ▲ 279.10m
 - Concrete Footpath shown thus
 - Proposed Foul Sewer shown thus ---
 - Proposed Clean Storm Water shown thus ---
 - Proposed Dirty Storm Water shown thus ---
 - Water supply from Harvesting Tank shown thus ---

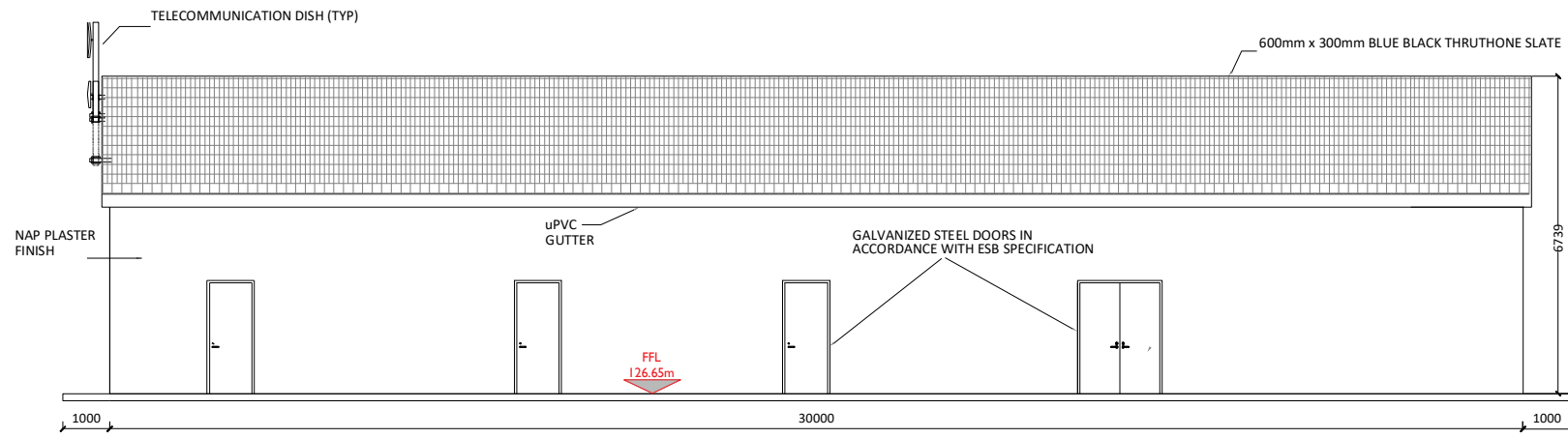
ISSUE/REVISION

| NO | DATE | DESCRIPTION |
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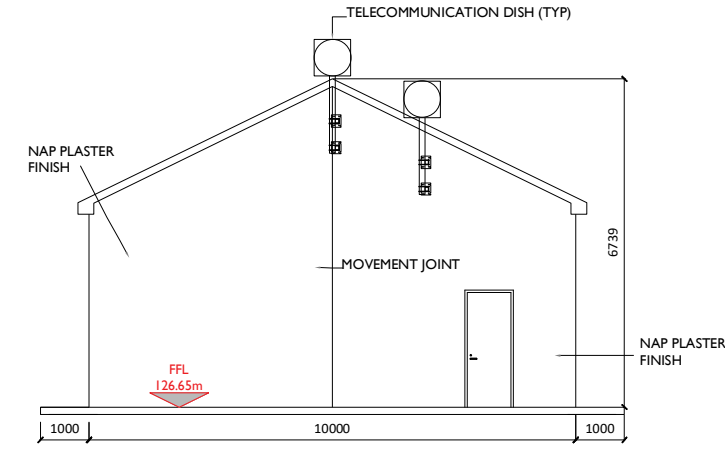
PROJECT NUMBER
05-725

SHEET TITLE
Control Building - Plan & Elevations & Section

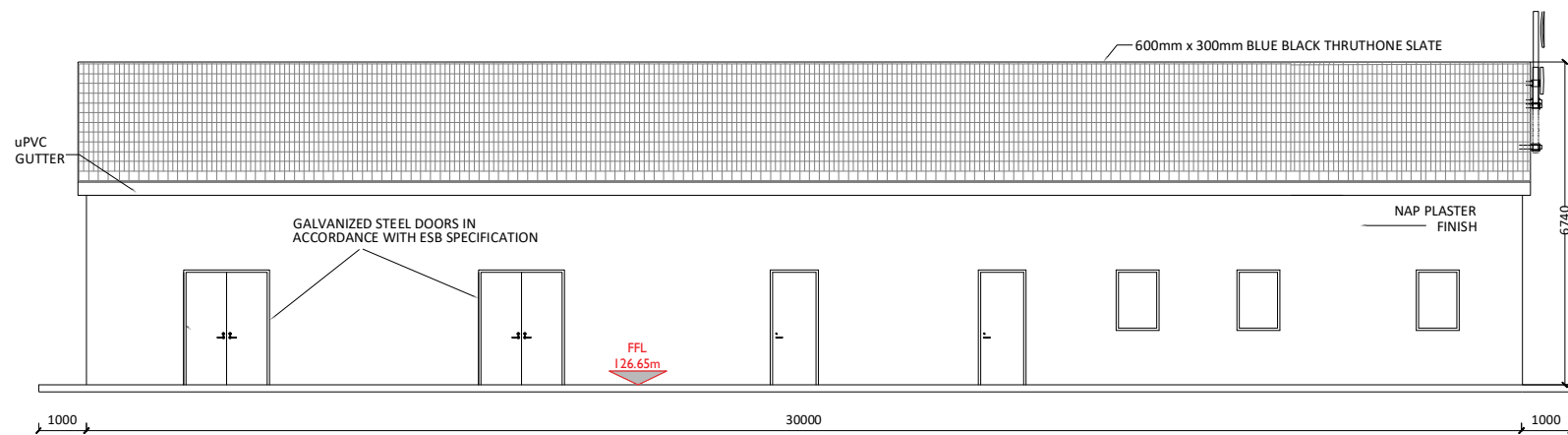
SHEET NUMBER
05725-DR-118



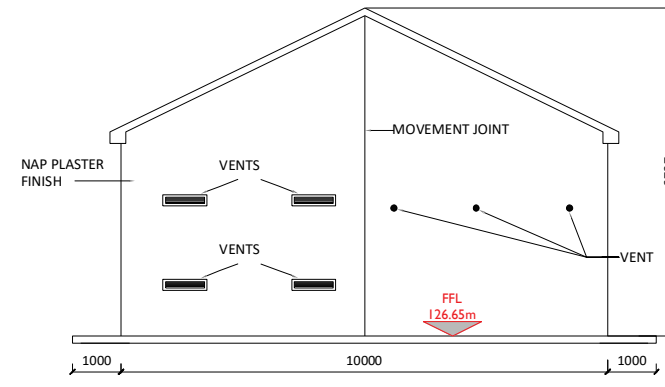
REAR ELEVATION
Scale : 1:75



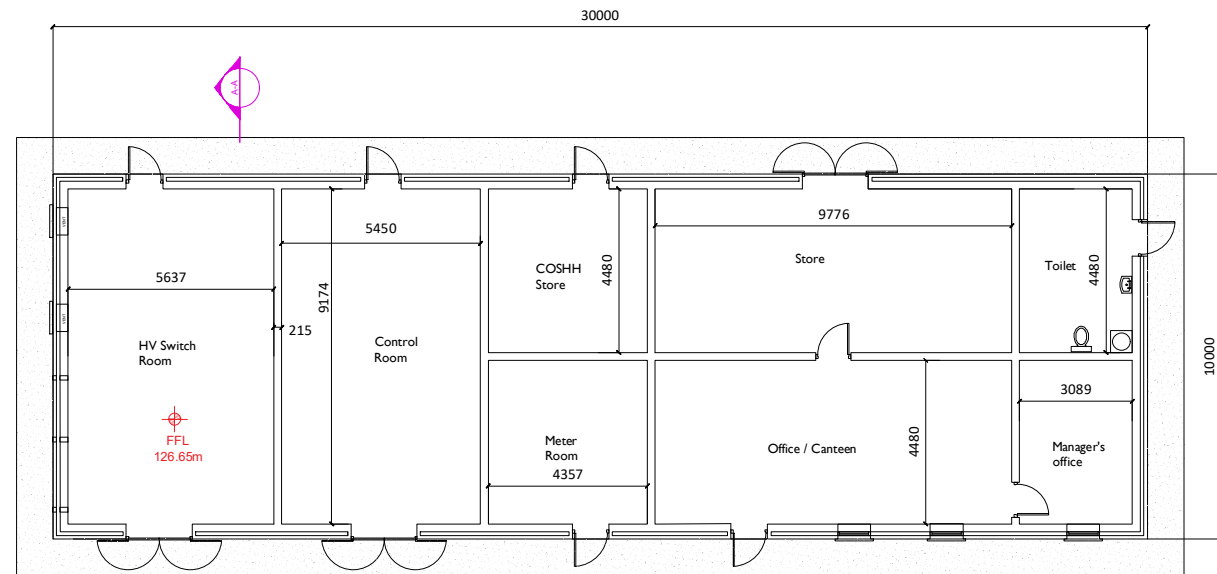
SIDE ELEVATION
Scale : 1:75



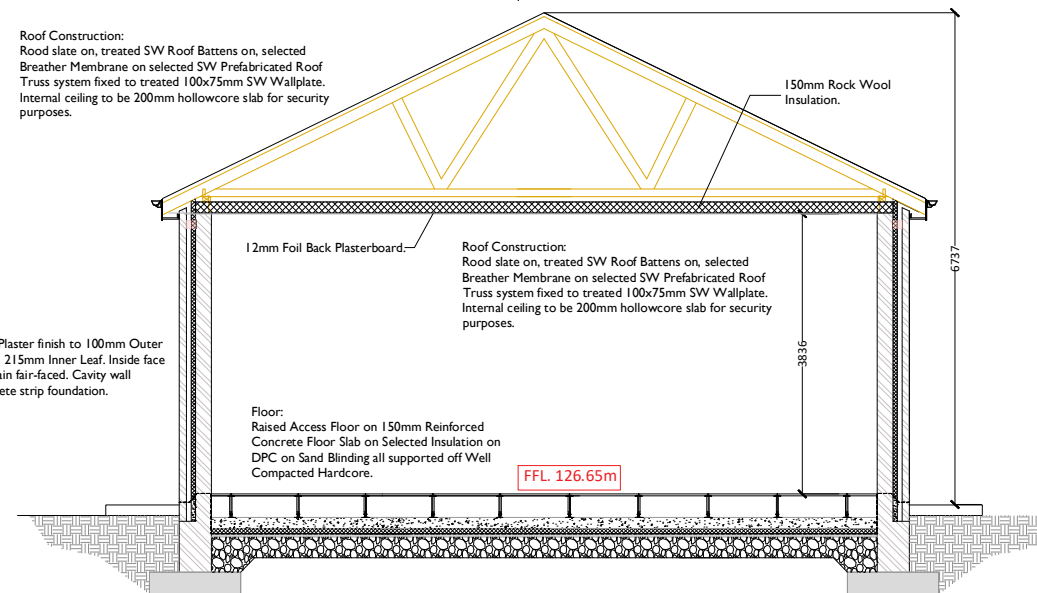
FRONT ELEVATION
Scale : 1:75



SIDE ELEVATION
Scale : 1:75



PLAN - IPP BUILDING
Scale : 1:100



SECTION A-A
Scale : 1:50

- NOTES: -
1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
 2. Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
 3. Final Specifications of Buildings and Electrical Equipment is to be as per Eirgrid and ESB Specifications.
 4. The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND: -

Proposed Levels shown thus

Concrete Footpath shown thus

| ISSUE/REVISION | | |
|----------------|----------|------------------------|
| NO | DATE | DESCRIPTION |
| P01 | 11.01.23 | Issued for Information |
| P00 | 03.10.22 | Issued for Information |
| I/R | DATE | DESCRIPTION |

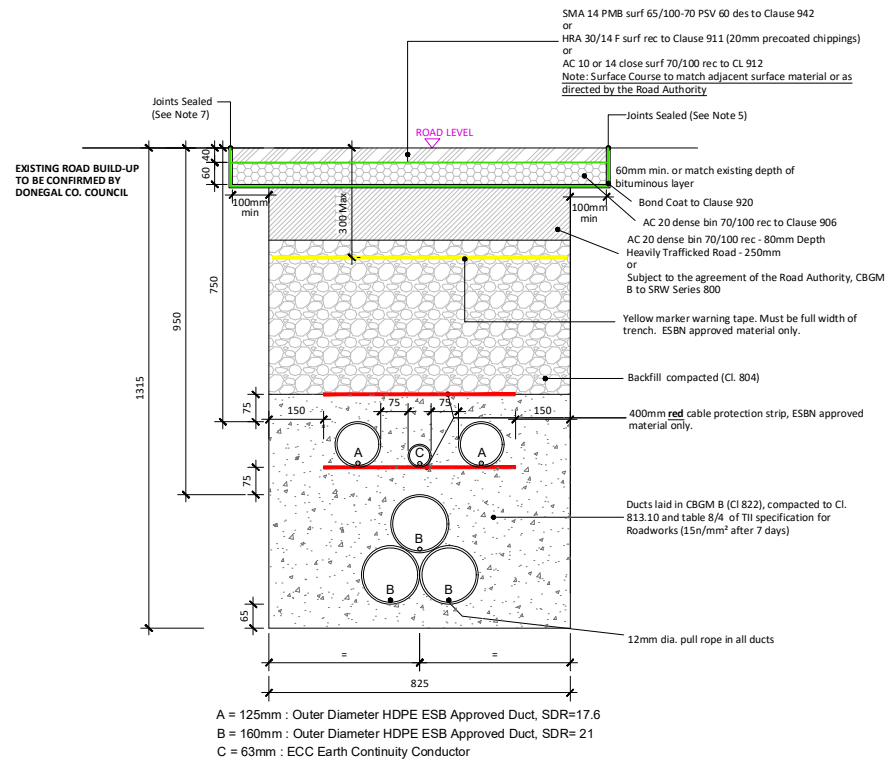
PROJECT NUMBER
05-725

SHEET TITLE
**IPP Building - Plan & Elevations
& Section**

SHEET NUMBER
05725-DR-119

Permanent Reinstatement

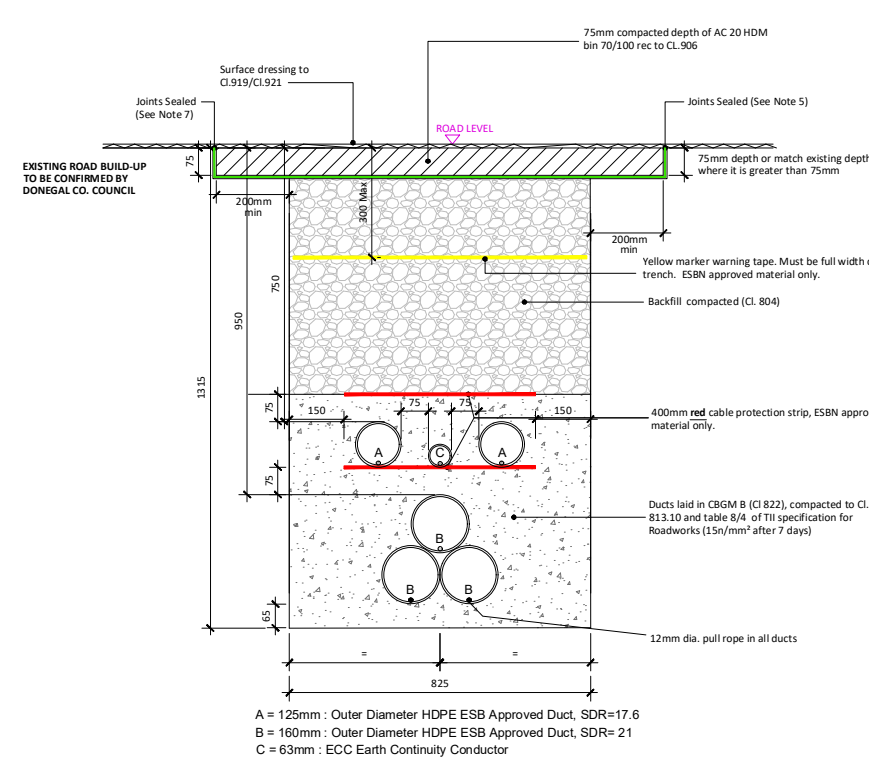
Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

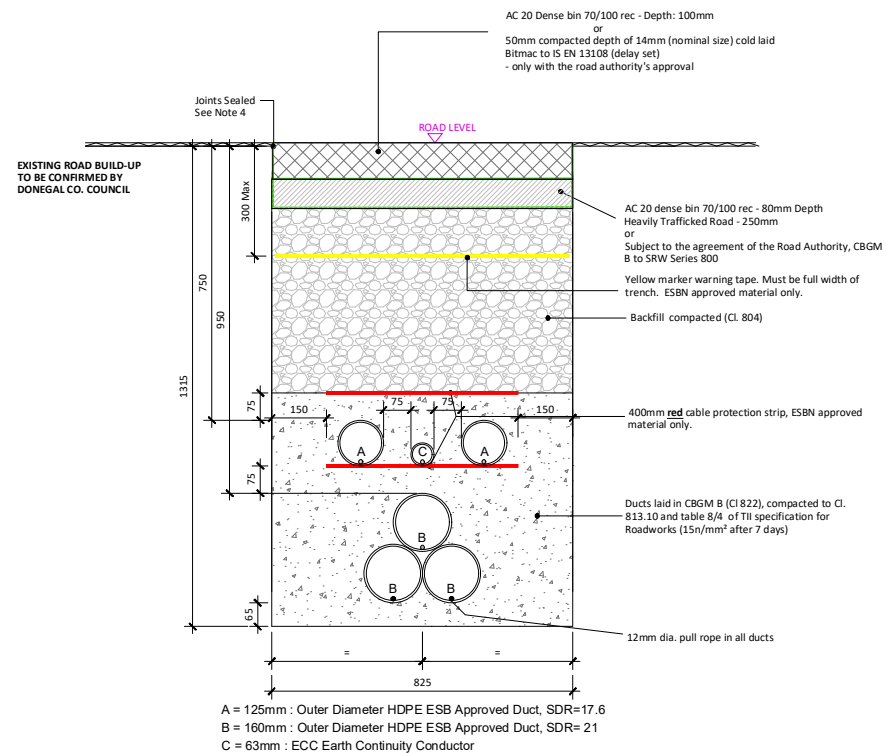
SCALE 1:10

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

- Note:
1. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 3. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
 4. Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
 5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 7. Joint sealer shall be a hot 50 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S.594987 prior to application of bituminous materials.
 8. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may at its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
 9. On highly trafficked roads services must have a minimum cover of 750mm.
 10. Where required by the Road authority the trench may be reinstated with a Cement Bound Granular Material.

Temporary Reinstatement

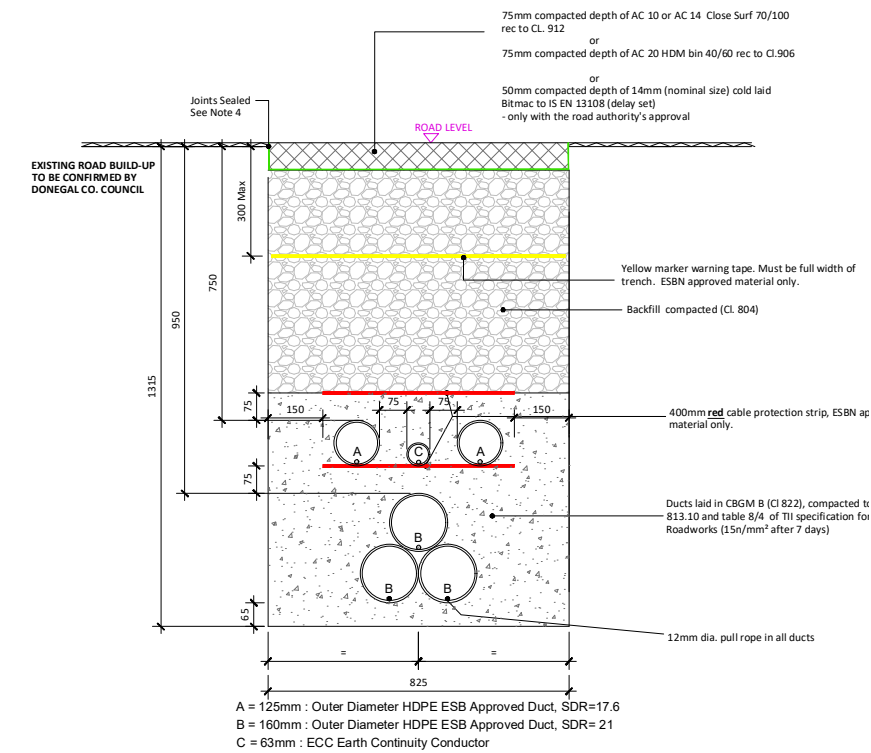
Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD1



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD2



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

SCALE 1:10

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

- Note:
1. Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 4. Joint sealer shall be a hot 50 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
 5. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
 6. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 7. Temporary Road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chapter 8 - Temporary Traffic Measures and Signs for Roadworks).
 8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.

PROJECT
**Clogherchor Wind Farm
110kV Grid Connection**

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- NOTES: -
- This drawing is to be read in conjunction with relevant drawings, specifications and reports
 - Dimensions are in millimeters, unless noted otherwise
 - Drawings are not to be scaled use figured dimensions only
 - Geogrid may be implemented along the cable trench route where deemed necessary by the contractor or as required by Donegal County Council

LEGEND: -

ISSUE/REVISION

| NO | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P01 | 11.01.23 | Issued for Information |
| P00 | 03.10.22 | Issued for Information |
| I/R | DATE | DESCRIPTION |

PROJECT NUMBER

05-725

SHEET TITLE

Typical Ducting Through
Regional / Local Roadways

SHEET NUMBER

05725-DR-120

- NOTES:**
1. This drawing is to be used for EirGrid design approval only and is not to be used for construction.
 2. For further information reference the latest versions of EirGrid Dr. No. **XDC-CBL-STND-H-007** & Functional Specifications in addition to all other relevant documentation.
 3. Dimensions are in millimeters, unless noted otherwise.
 4. Drawings are not to be scaled, use figured dimensions only.
 5. Road-markings to be agreed with the county council and reinstated.
 6. Road surfacing build-up and tie in with non floating road sections to be agreed with the county council.

LEGEND:

| | |
|----------------------------|--|
| SECUGRID 40/40 GEOGRID | |
| TENSAR Tx160 GEOGRID | |
| GEOTEXTILE | |
| BASE WEARING COURSE | |
| PEAT COMPOSITION | |
| EXISTING MATERIAL | |
| NEW ROAD BUILD UP MATERIAL | |

PROJECT

**Clogherchor Wind Farm
 110kV Grid Connection**

CLIENT

FuturaEnergy Ireland

Orsted

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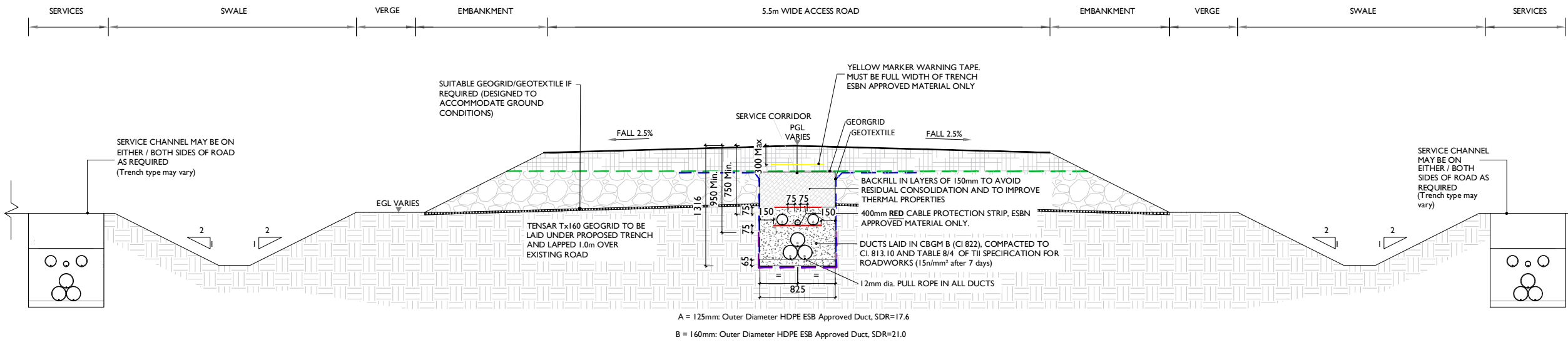
NOTES: -

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route.

This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

LEGEND: -



CABLE TRENCH SECTION
 Scale: 1:25

ISSUE/REVISION

| NO | DATE | DESCRIPTION |
|-----|----------|------------------------|
| P02 | 17.02.23 | Issued for Information |
| P01 | 11.01.23 | Issued for Information |
| P00 | 03.10.22 | Issued for Information |

PROJECT NUMBER

05-725

SHEET TITLE

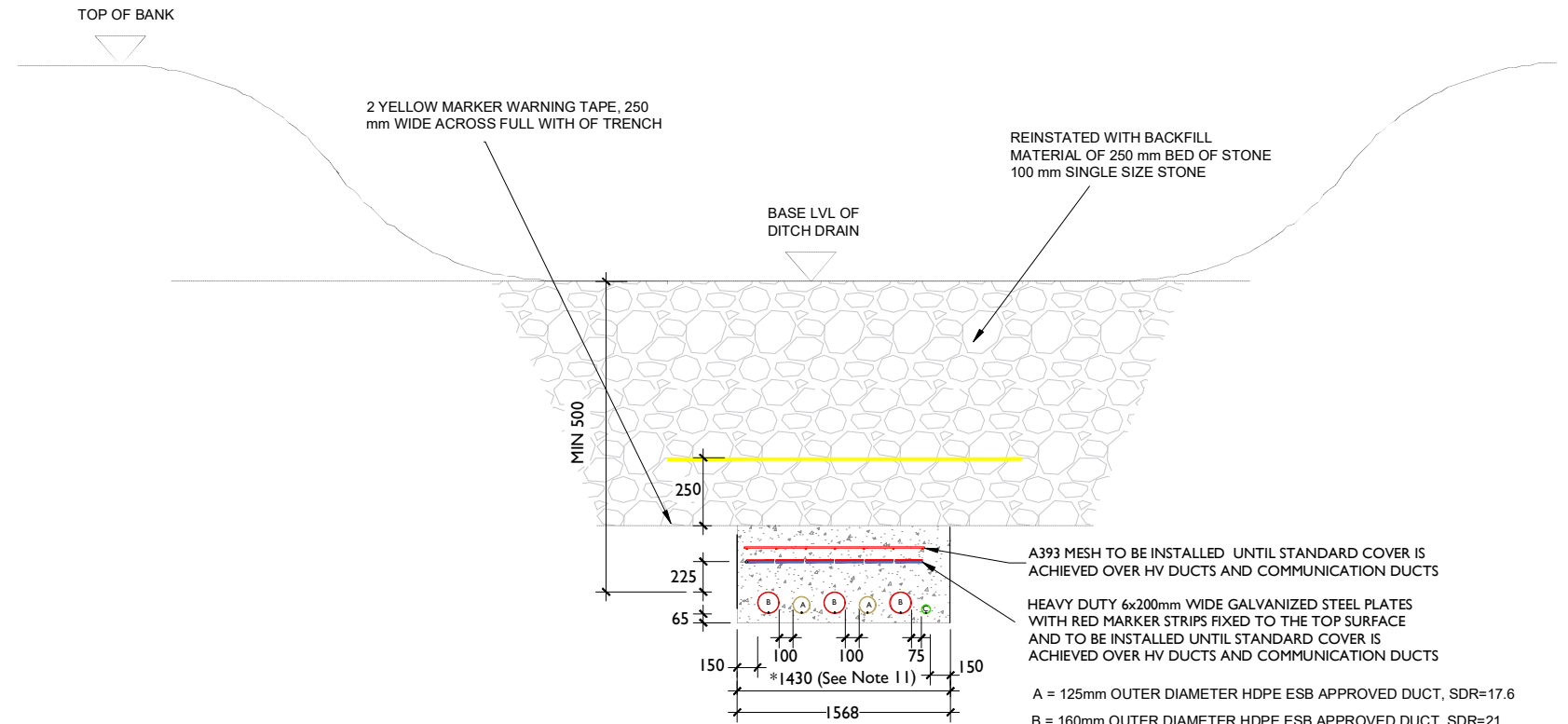
Typical 110kV Ducting through Existing Floating Road in Peat

SHEET NUMBER

05725-DR-121

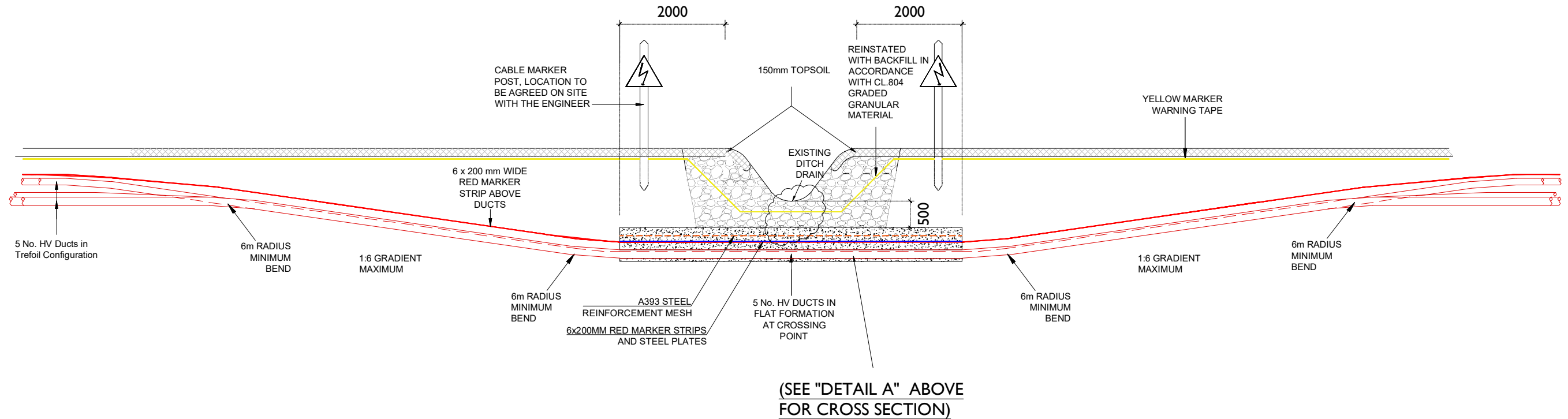
NOTES:

1. This design is subject to EirGrid design approval.
2. This drawing is to be read in conjunction with all other relevant documentation.
3. Do not scale from this drawing, use figured dimensions only.
4. All dimensions are in millimeters, unless noted otherwise.
5. This drawing is to be read in conjunction with the Project Health and Safety File for any identified potential risks.
6. No excavation shall commence until the contractor has consulted up to date services drawings and carried out an electromagnetic locator (EML) scan.
7. Hand dig only within 500mm of existing services.
8. Where depths exceed 3000mm to top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
9. All approvals for watercourse crossing and required minimum cover to be obtained by the contractor prior to commencement of works.
10. ESB marker post (ESB Code: 8327355) or stub pole (2m above ground) and warning sign (ESB Code: 8238339)
11. Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC duct to the A duct and update the trench width accordingly.



CONCRETE BED & SURROUND METHOD UNDER EXISTING DITCH
Scale 1:50

A393 MESH TO BE INSTALLED UNTIL STANDARD COVER IS ACHIEVED OVER HV DUCTS AND COMMUNICATION DUCTS
HEAVY DUTY 6x200mm WIDE GALVANIZED STEEL PLATES WITH RED MARKER STRIPS FIXED TO THE TOP SURFACE AND TO BE INSTALLED UNTIL STANDARD COVER IS ACHIEVED OVER HV DUCTS AND COMMUNICATION DUCTS
A = 125mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=17.6
B = 160mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=21
C = 63mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR



(SEE "DETAIL A" ABOVE FOR CROSS SECTION)



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PROJECT

Clogherchor Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-725

SHEET NUMBER
05725-DR-124

SHEET TITLE

Typical Watercourse /
Ditch Crossing Detail

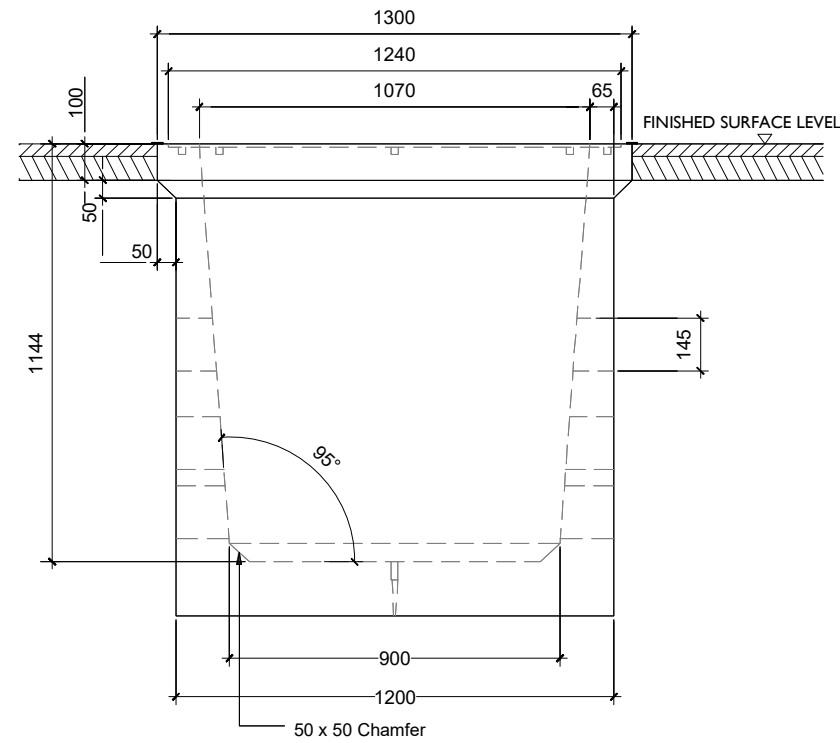
DRAWING STATUS
For Information

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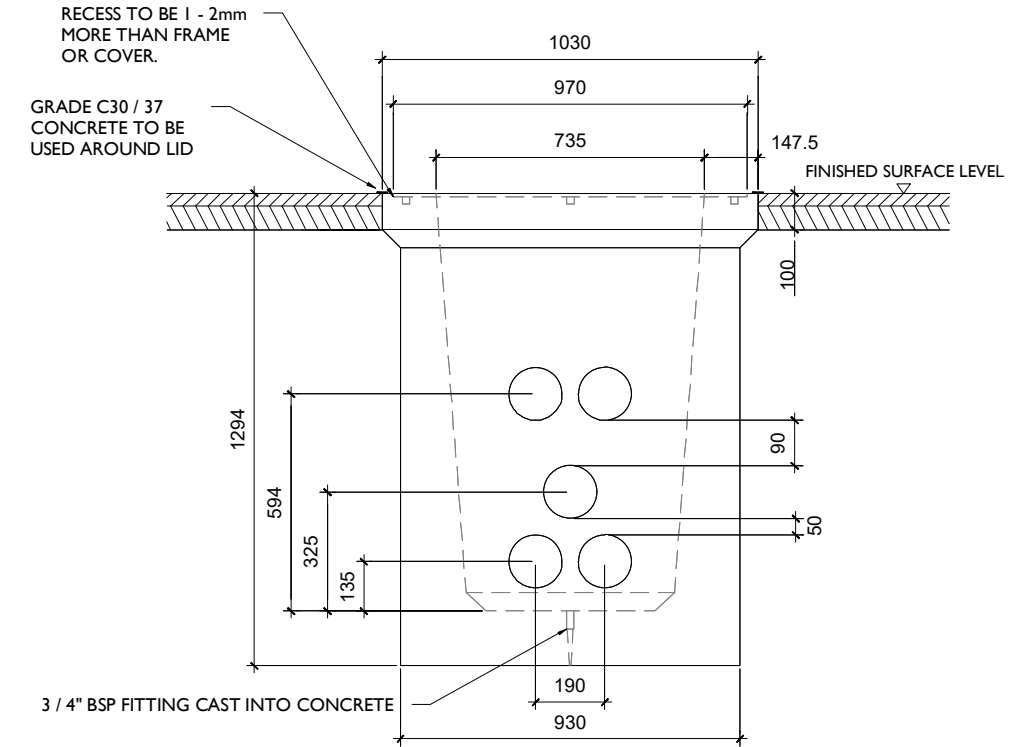
NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED
2. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
3. ENTRANCE AND EXIT DUCTS TO BE IN LINE
4. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
5. REINFORCED CONCRETE TO BE MINIMUM GRADE C32 / 40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF THE BRITISH STANDARD 8110.
6. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
7. ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID
8. STEP IRONS TO BE HOT DIPPED GALVANISED TO B.S 729 AND POSITIONED AS SHOWN ON ANY CHAMBER DEEPER THAN 700mm ON THE END REMOTE FROM ANY SIDE ENTRY DUCT.
9. CONCRETE PRECAST CHAMBER AND COVER TO BE TESTED THROUGH 5 POINTS, 40 TONNES VERTICAL STATIC LOADING TEST BY AN INDEPENDENT TEST COMPANY. IF REQUIRED, FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
10. FINAL POSITION OF C2 CHAMBERS SHALL BE AGREED WITH EIRGRID
11. IN A FOREST ENVIROMENT, BACKFILL WITH LEAN MIX OUTSIDE THE COVER FRAME WHERE THE ASPHALT IS SHOWN



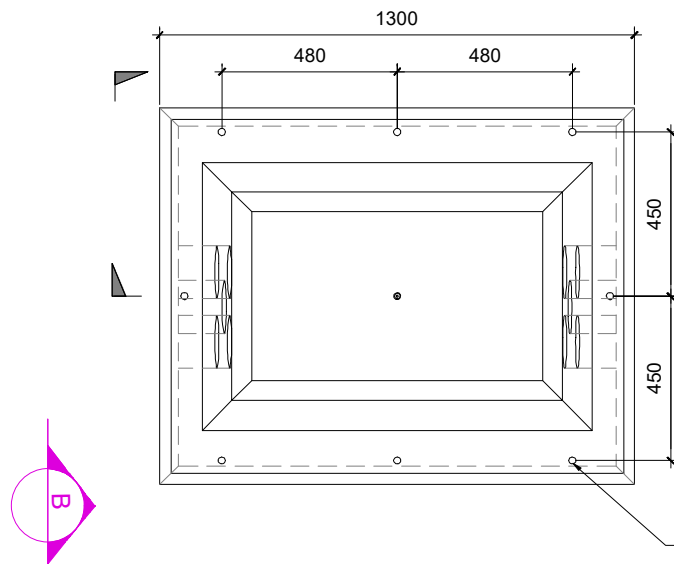
C2 Chamber Detail - Section A

SCALE 1:20



C2 Chamber Detail - Section B

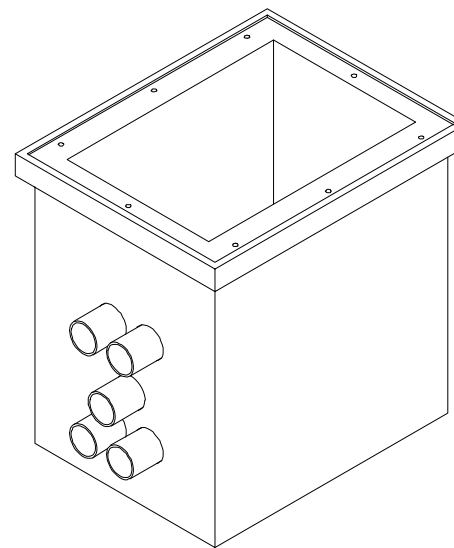
SCALE 1:20



Typical Plan of C2 Chamber

SCALE 1:20

8 HOLES IN THE MOULD TO SUIT THREADED INSERTS (PLEASE CH ALIGNMENT OF ALL HOLES)



Isometric : C2 Chamber Arrangement

SCALE 1:20



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Clogherchor Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-725

SHEET NUMBER
05725-DR-125

SHEET TITLE

Typical Communications
Chamber Details

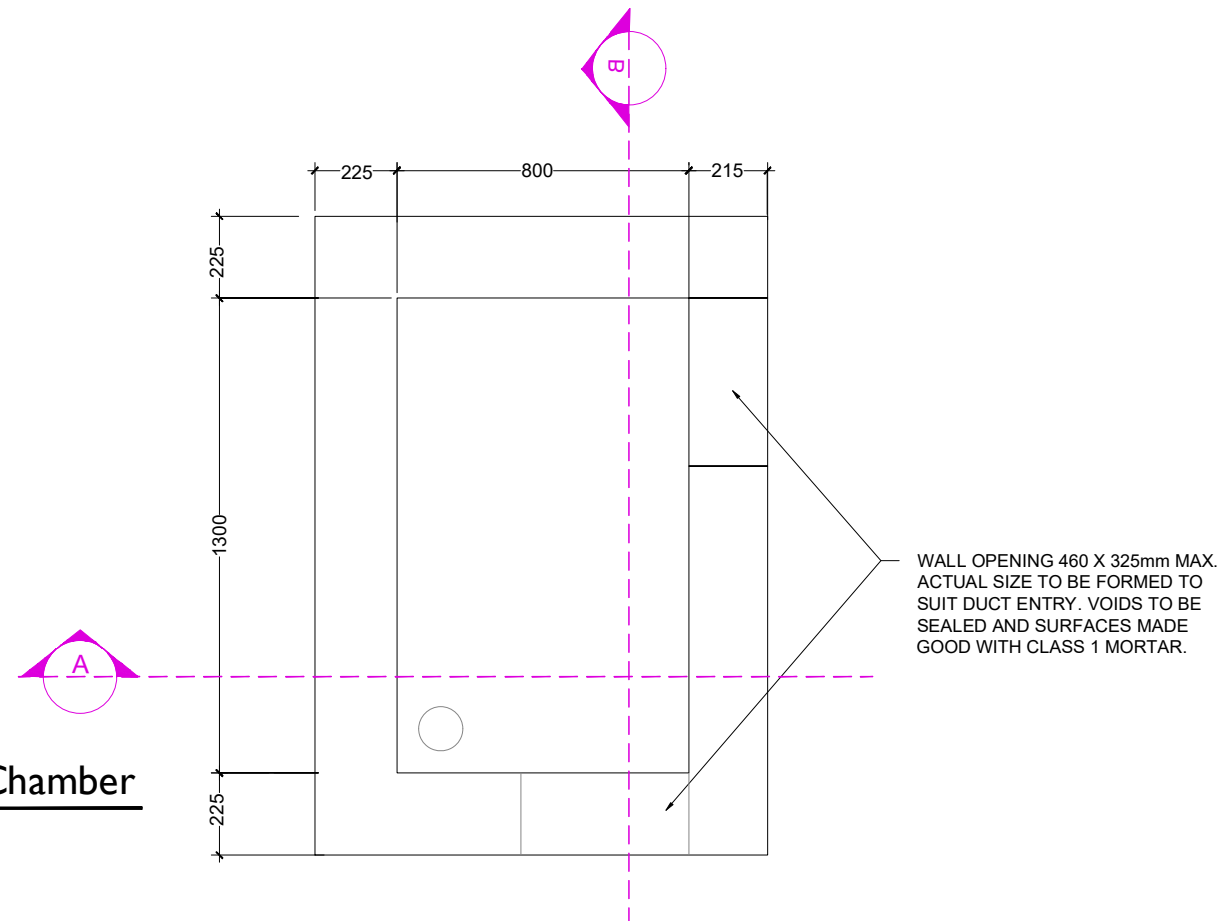
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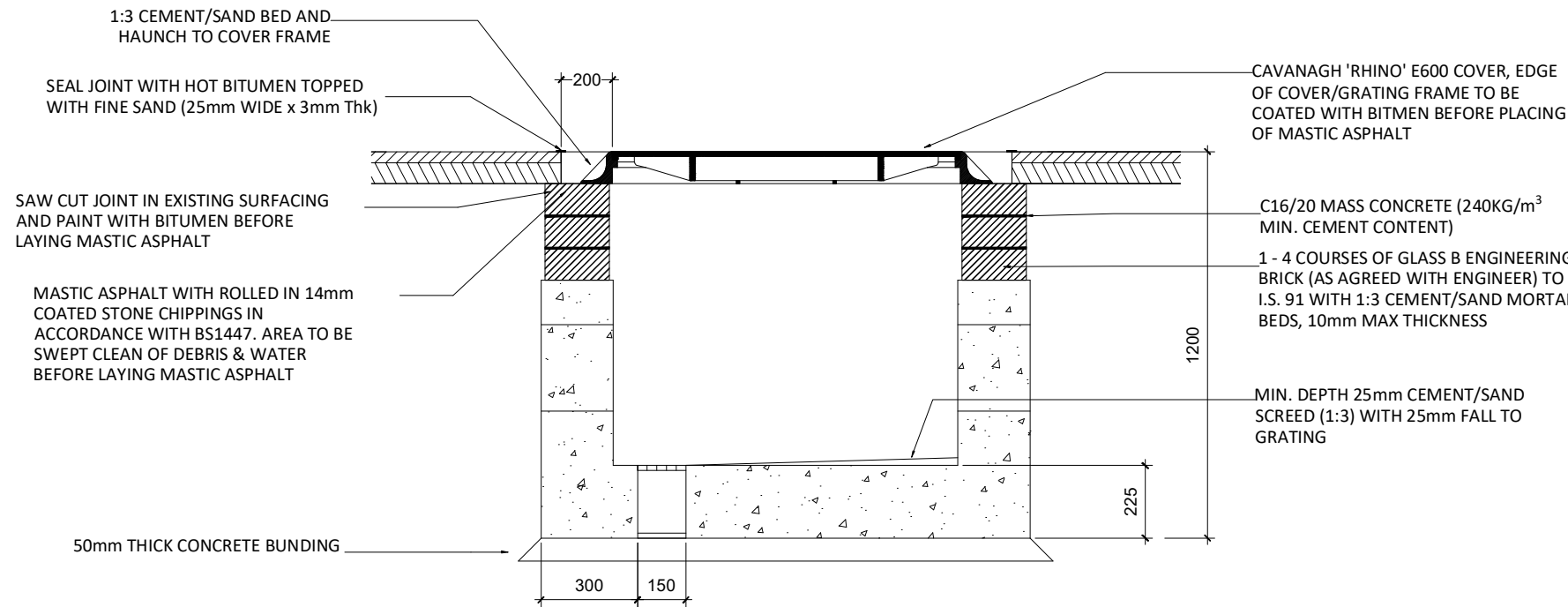
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6. ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID
7. FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
8. FINAL POSITION OF EARTH LINK CHAMBERS SHALL BE AGREED WITH EIRGRID



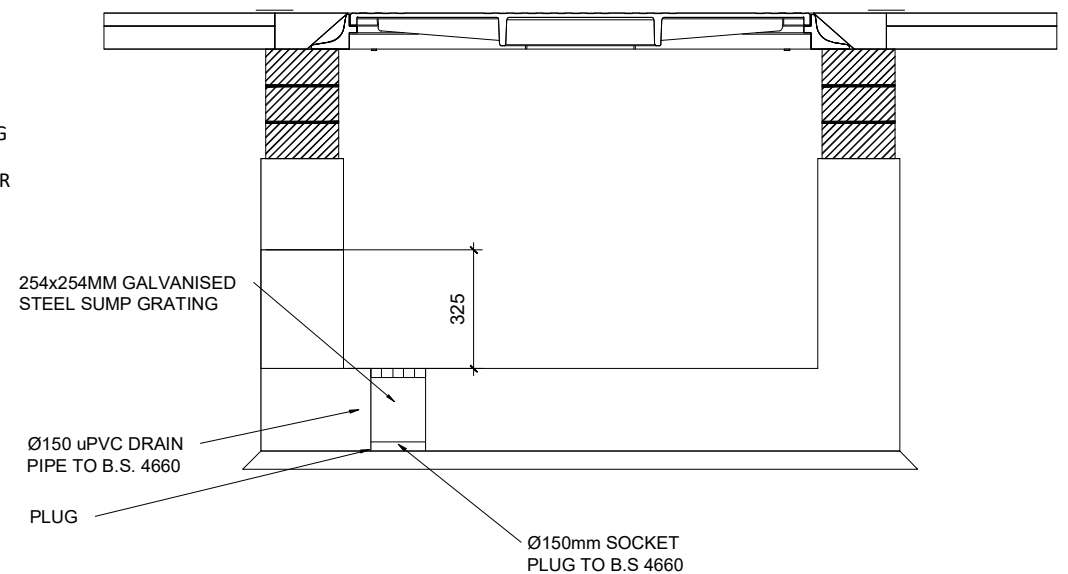
Typical Plan of Earth Link Chamber

SCALE 1:20



Earth Link Chamber - Section A

SCALE 1:20



Earth Link Chamber - Section B

SCALE 1:20



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PROJECT

Clogherchor Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-725

SHEET NUMBER
05725-DR-126

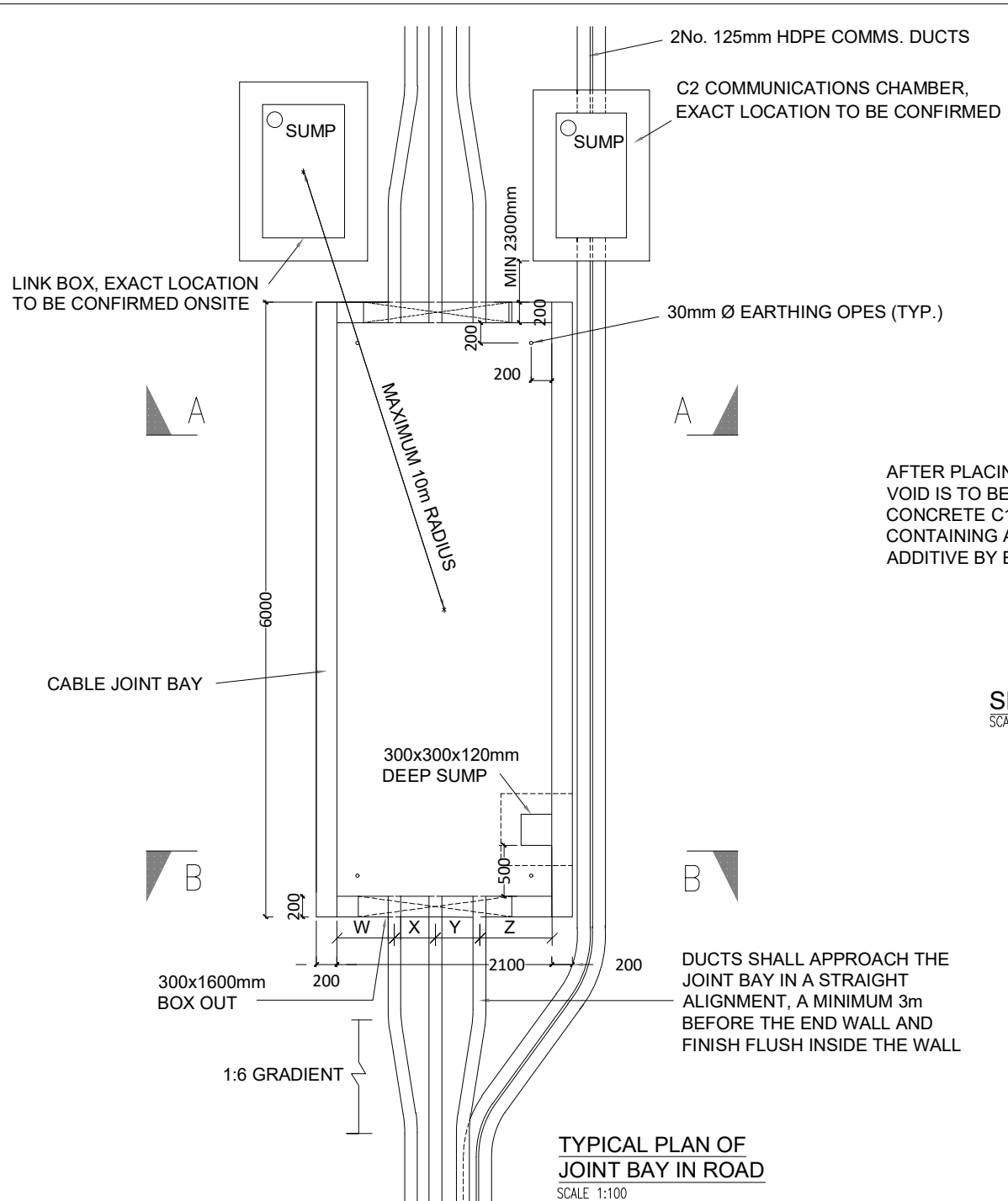
SHEET TITLE

Typical Earth Link
Chamber Details

DRAWING STATUS
For Information

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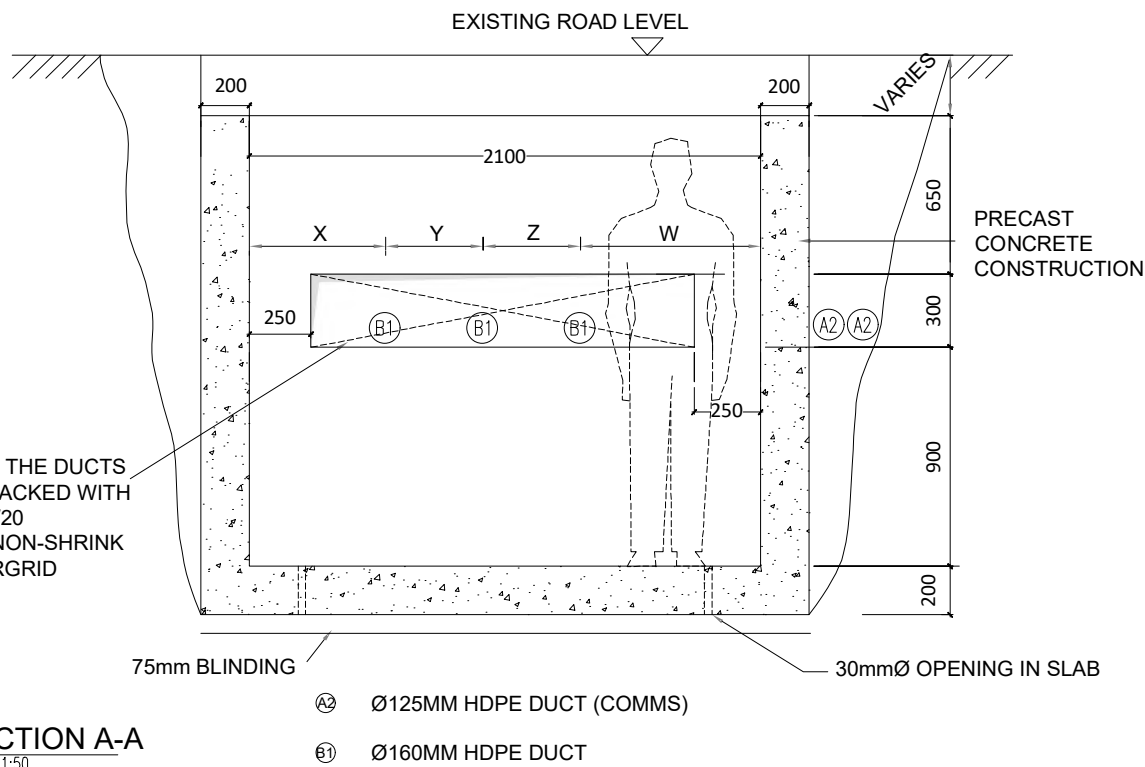
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|-----|----------|------------------------|
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| I/R | DATE | DESCRIPTION |



TYPICAL PLAN OF JOINT BAY IN ROAD
SCALE 1:100

GENERAL NOTES:

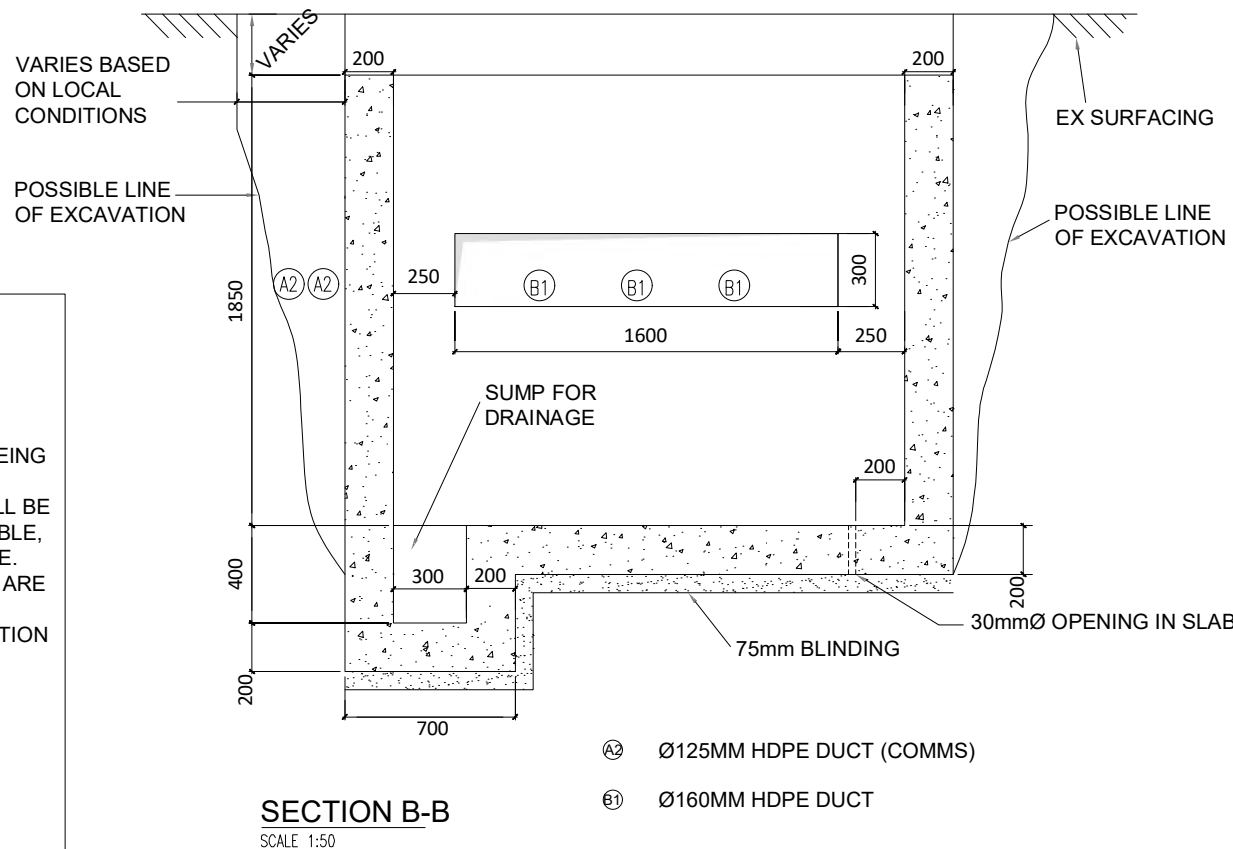
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- THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE PERMITTED.
- ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
- THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE
 - 500MM - IN CULTIVATED FIELDS & GRASS LAND
 - 300MM - IN PAVED ROADS AND GRASS VERGES
 - 350MM - IN PAVED CITY ROADS AND GRASS VERGES
- LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF ROAD
- LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION



SECTION A-A
SCALE 1:50

TABLE 1 - DUCT SEPERATION

| | X | Y | Z | W |
|-------|-----|-----|-----|-----|
| 110kV | 560 | 400 | 400 | 760 |
| 220kV | 375 | 675 | 675 | 375 |



SECTION B-B
SCALE 1:50

| I/R | DATE | DESCRIPTION |
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PROJECT

**Clogherchor Wind Farm
110kV Grid Connection**

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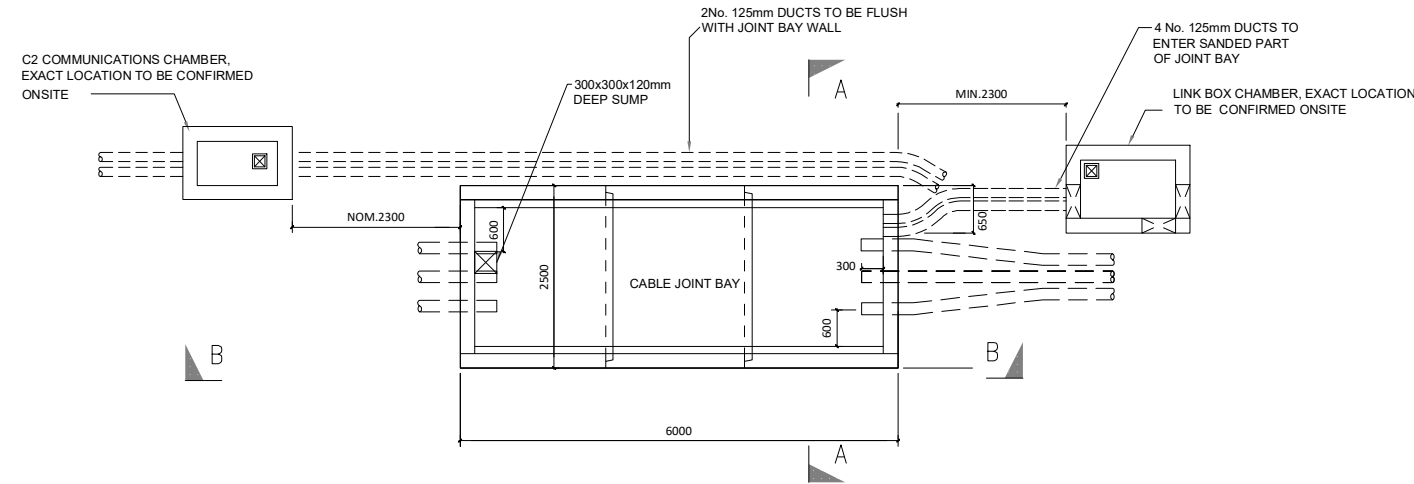
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CONSULTING ENGINEERS

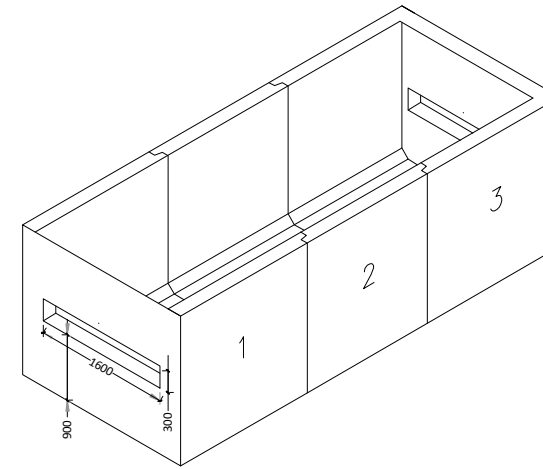
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See General Notes

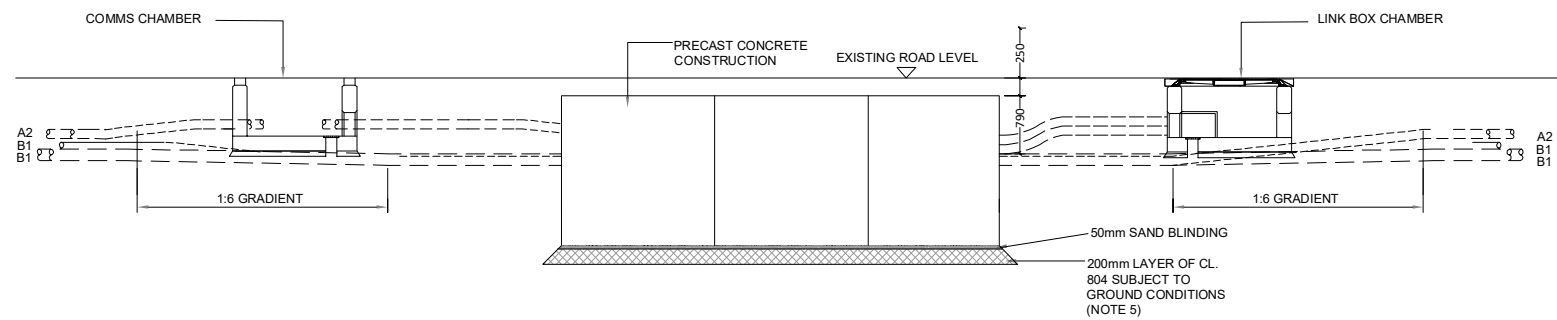
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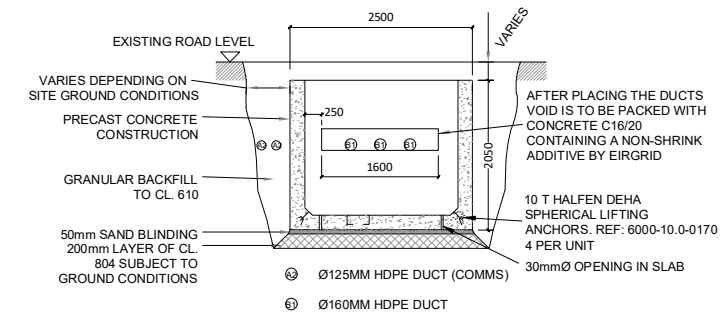
PLAN VIEW
SCALE 1:50



ISOMETRIC VIEW PRECAST CHAMBER
SCALE 1:50



SECTION B-B
SCALE 1:50



SECTION A-A
SCALE 1:50

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| P00 | 03.10.22 | Issued for Information |

PROJECT NUMBER

05-725

SHEET TITLE

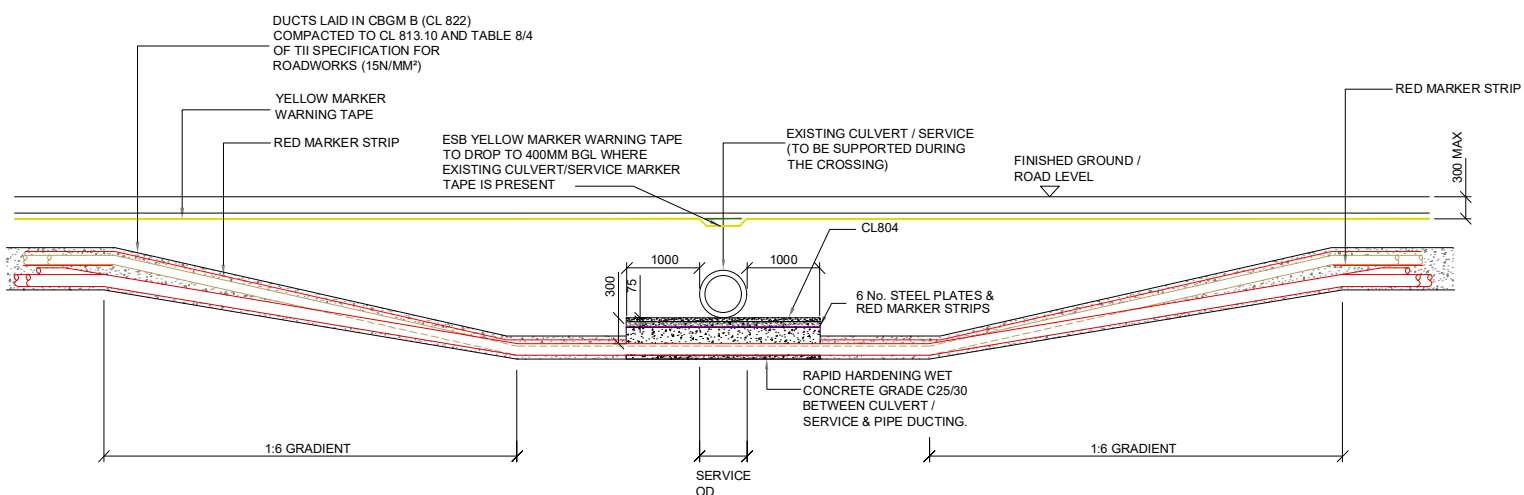
**110kV Joint Bay General
Arrangement and Details**

SHEET NUMBER

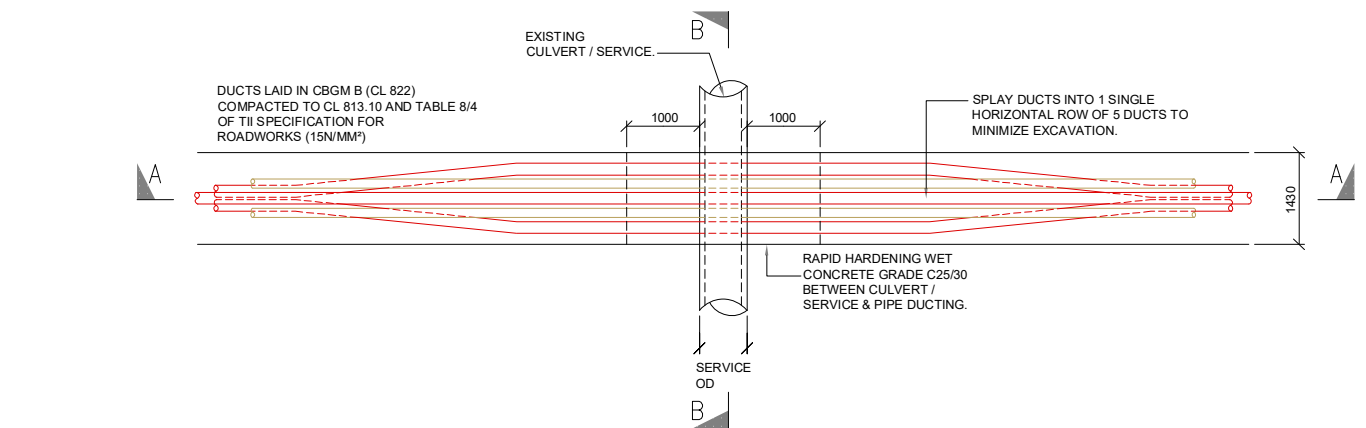
05725-DR-128

ISO A1 594mm x 841mm

Project Management Initials: Designer: JC Checked: DB Approved: RG

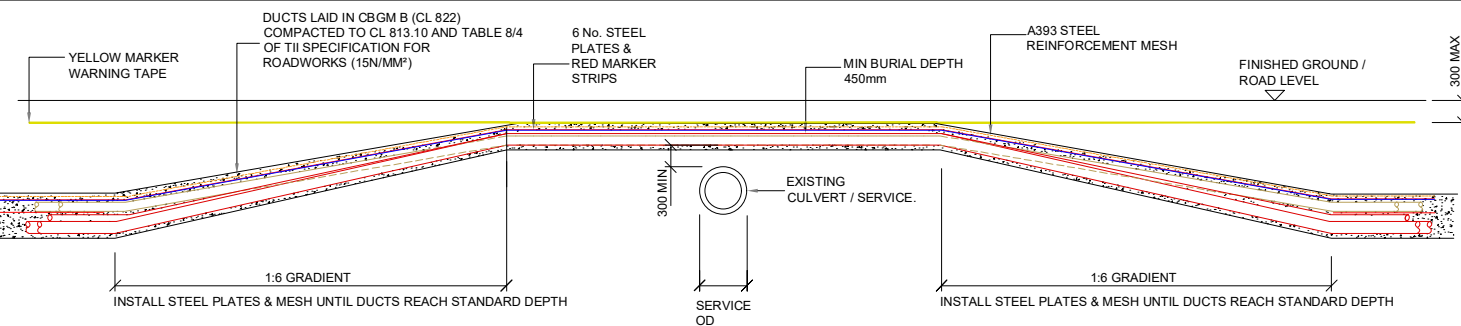


SECTION A-A
SCALE 1:50

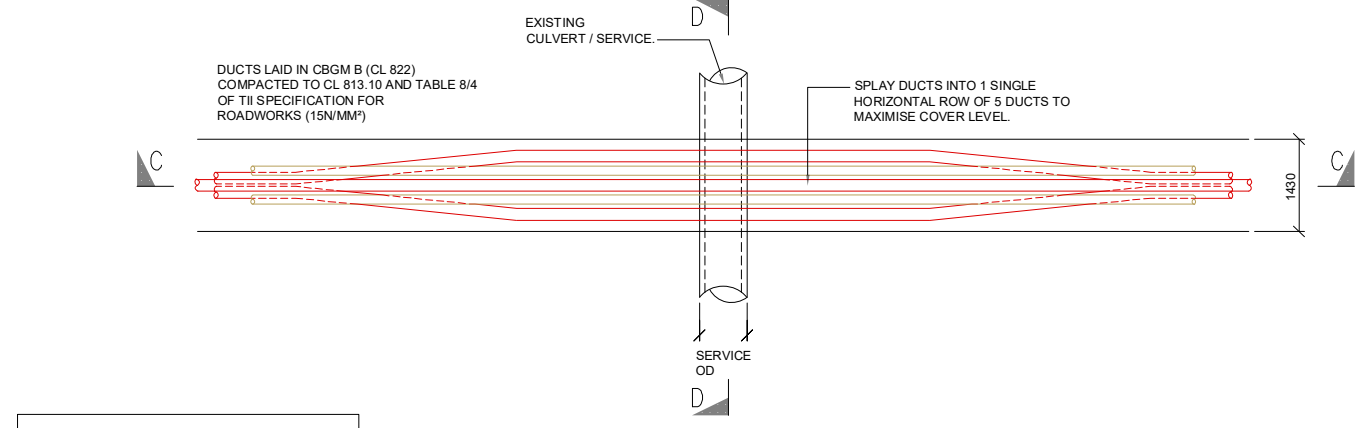


PLAN VIEW
SCALE 1:50

SERVICE UNDERCROSSING



SECTION C-C
SCALE 1:50

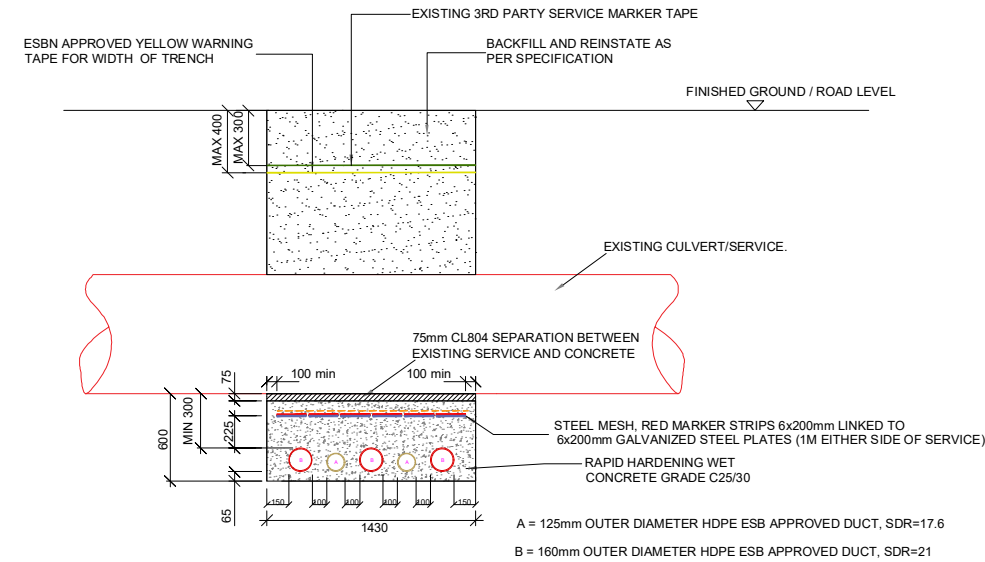


PLAN VIEW
SCALE 1:50

SERVICE OVERCROSSING

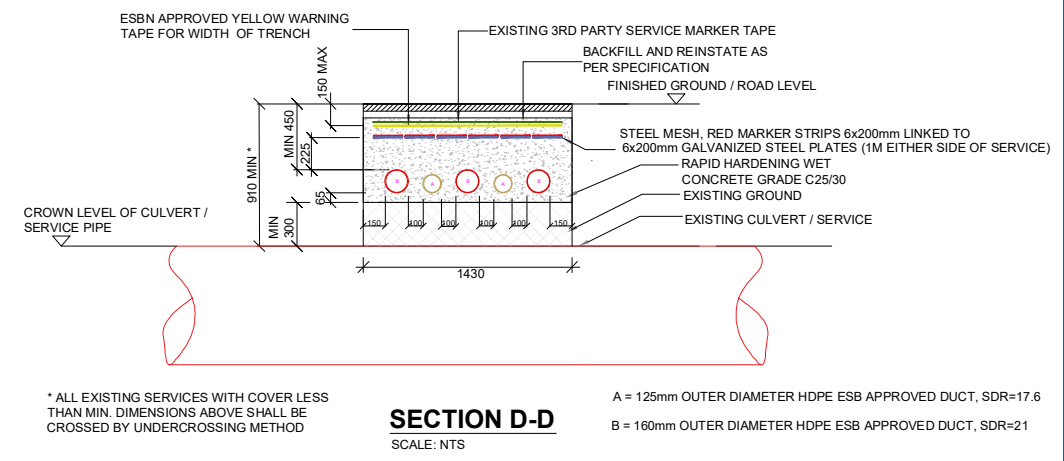
GENERAL NOTES

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- All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
- This drawing is to be read in conjunction with the project Health & Safety file for any identified potential risks.
- No excavation shall commence until the contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
- Hand dig only within 500mm of existing services.
- If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
- For standard trench cross section drawings and minimum horizontal separation to existing services, see 05725-DR-220 (TREF OIL) and 05725-DR-223 (FLAT).
- Where depths exceed 3000mm to the top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
- For Watermain crossings, see 05725-DR-230
- All Products and materials to be utilised during construction to comply with Eirgrid functional specification for road works and all relevant Irish (European) and British standards
- 300mm minimum vertical and horizontal clearances to be observed between cable ducts and third party services (e.g. gas pipes, water mains, culverts etc.) In the case of high risk 3rd party services, greater clearances may be required. Designer to consult Eirgrid and 3rd party service owners for guidance
- Steel plates must cover ducts. No overlap is required however standard dimensions may result in an overlap. Spacing of 10mm to be maintained between steel plates to prevent the transfer of stray current.
- Templates are to be used at 5m intervals during duct installation in CBGM. Pre-made 75mm wide concrete spacers to be used during duct installation in wet concrete
- If existing service marker tape is not present, the ESBN yellow marker tape should be installed at maximum 300mm below finished surface level



SECTION B-B
SCALE: NTS

PROGRESS PRINT 03.10.22



SECTION D-D
SCALE: NTS

* ALL EXISTING SERVICES WITH COVER LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

LEGEND

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMETER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- A393 STEEL REINFORCEMENT MESH
- 6mm GALVANISED STEEL PLATE
- EXISTING 3RD PARTY MARKER TAPE



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PROJECT
**Clogherchor Wind Farm
110kV Grid Connection**

CLIENT
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CONSULTANTS
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NOTES: -
See General Notes

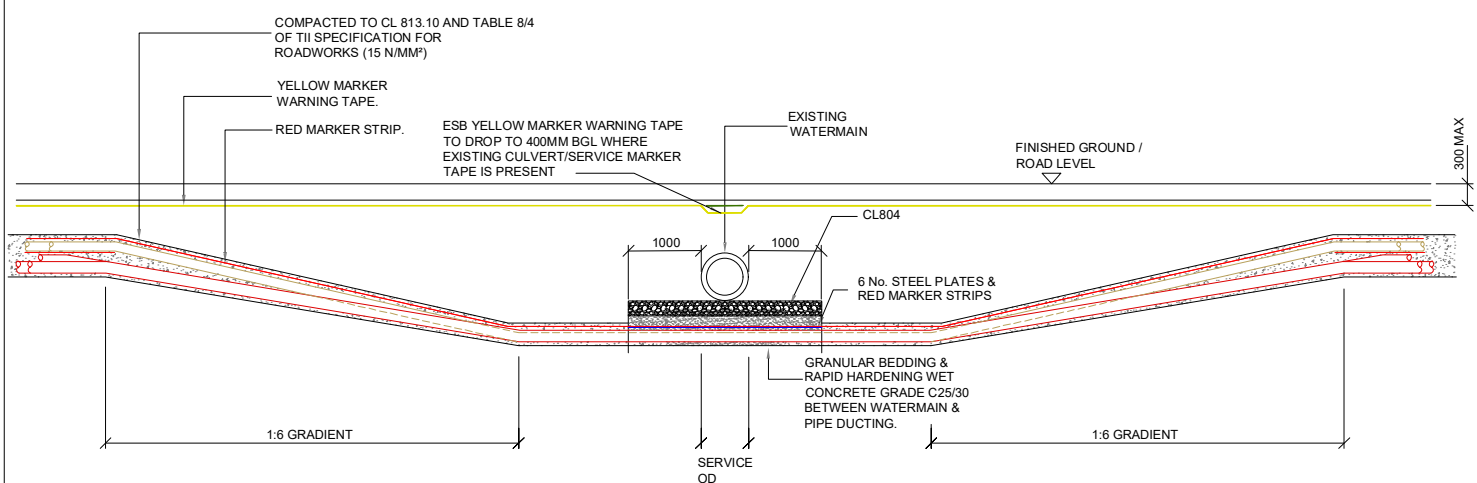
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| P00 | 20.09.22 | Issued for Planning |

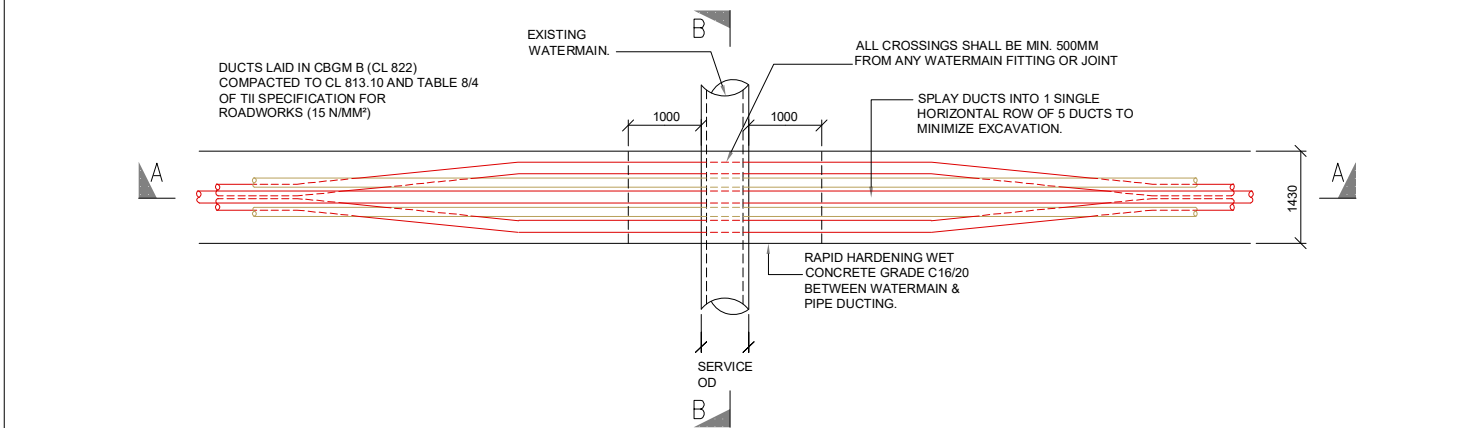
PROJECT NUMBER
05-725

SHEET TITLE
**Typical Trench Sections for
Crossing Existing Culverts/Services**

SHEET NUMBER
05725-DR-129

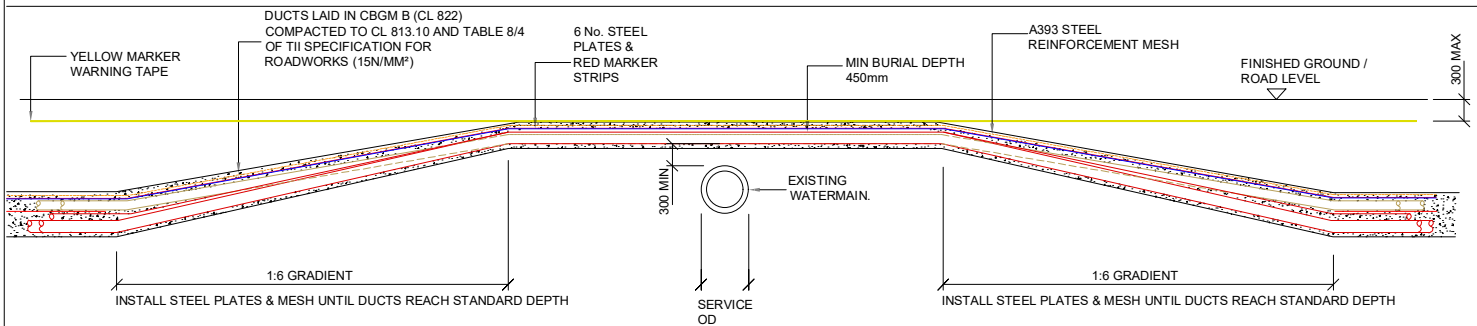


SECTION B-B
SCALE 1:50

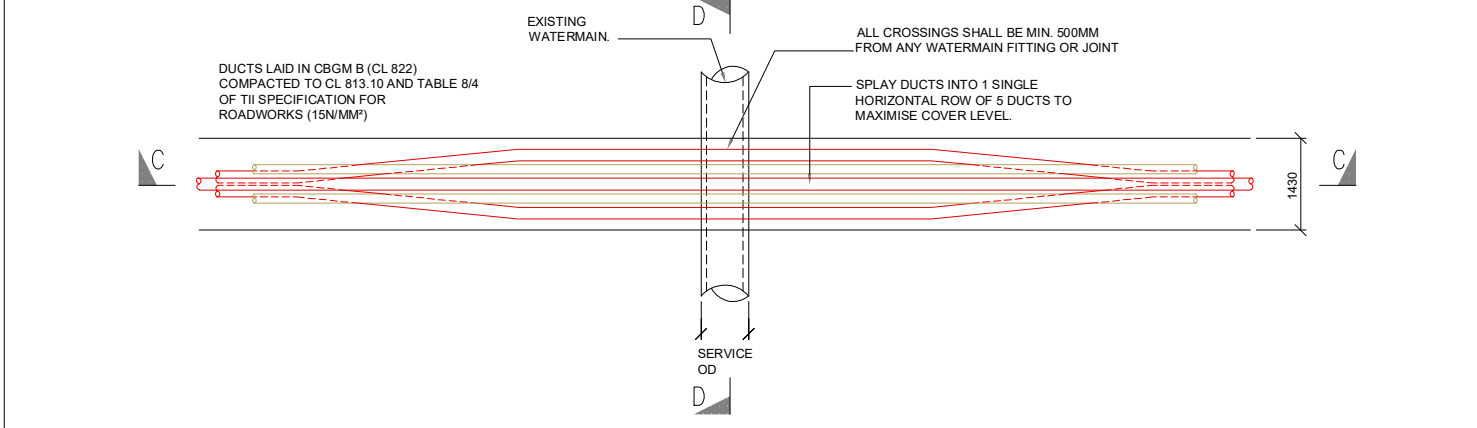


PLAN VIEW
SCALE 1:50

WATERMAIN UNDERCROSSING



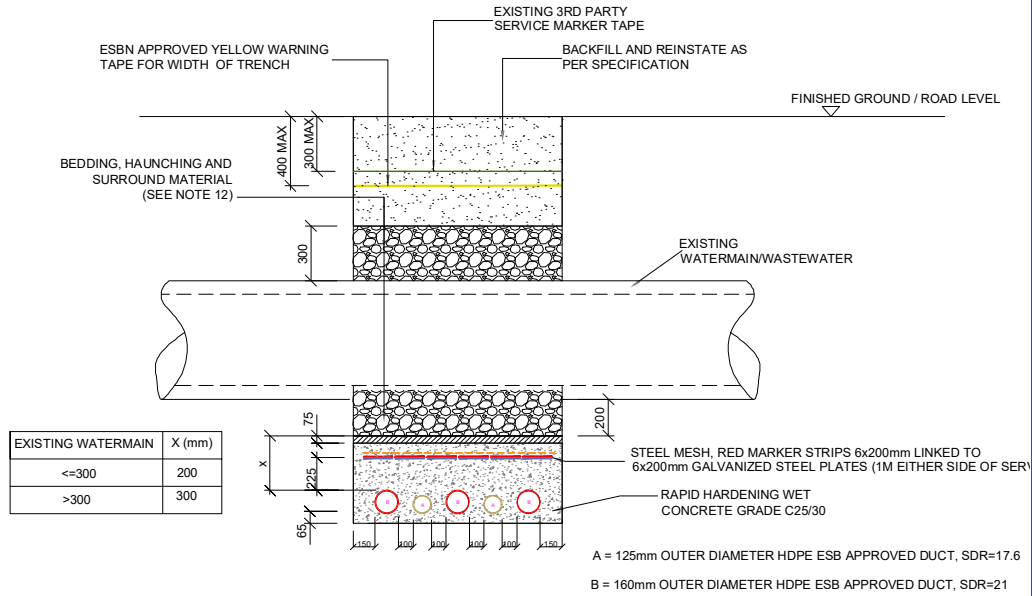
SECTION D-D
SCALE 1:50



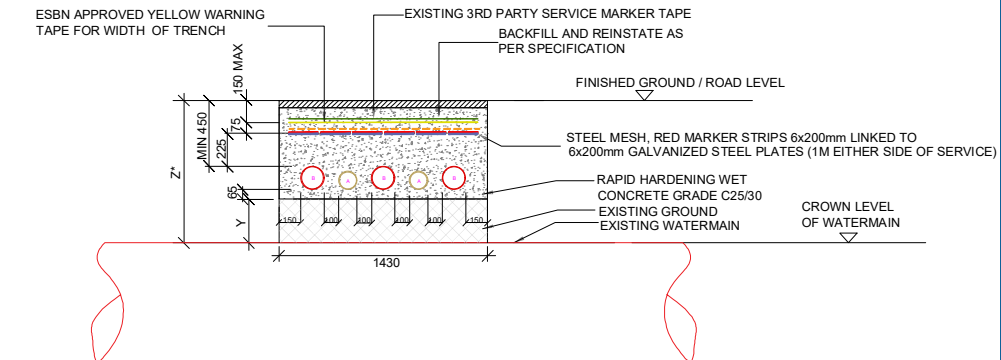
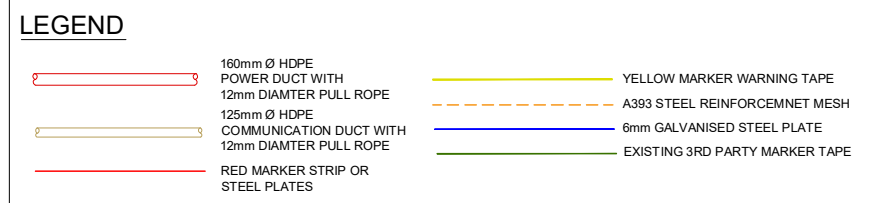
PLAN VIEW
SCALE 1:50

WATERMAIN OVERCROSSING

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 - This drawing is to be read in conjunction with the project Health & Safety file for any identified potential risks.
 - No excavation shall commence until the contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
 - Hand dig only within 500mm of existing services.
 - If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
 - For standard trench cross section drawings and minimum horizontal separation to existing services, see 05725-220 (TREF OIL) and 05725-223 (FLAT).
 - Where depths exceed 3000mm to the top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
 - All works shall be in accordance with Irish Water code of practice for infrastructure.
 - Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
 - As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
 - All Products and materials to be utilised during construction to comply with Eirgrid functional specification for road works and all relevant Irish (European) and British standards
 - 300mm minimum vertical and horizontal clearances to be observed between cable ducts and third party services (e.g. gas pipes, water mains, culverts etc.) In the case of high risk 3rd party services, greater clearances may be required. Designer to consult Eirgrid and 3rd party service owners for guidance
 - Steel plates must cover ducts. No overlap is required however standard dimensions may result in an overlap. Spacing of 10mm to be maintained between steel plates to prevent the transfer of stray current.
 - Templates are to be used at 5m intervals during duct installation in CBGM. Pre-made 75mm wide concrete spacers to be used during duct installation in wet concrete
 - If existing service marker tape is not present, the ESBN yellow marker tape should be installed at maximum 300mm below finished surface level



SECTION A-A
SCALE: NTS



SECTION C-C
SCALE: NTS

* ALL EXISTING SERVICES WITH COVER LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

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PROJECT
**Clogherchor Wind Farm
110kV Grid Connection**

CLIENT

FuturaEnergy Ireland

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CONSULTANTS

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NOTES:-
See General Notes

LEGEND:-

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| P02 | 11.01.23 | Issued for Application |
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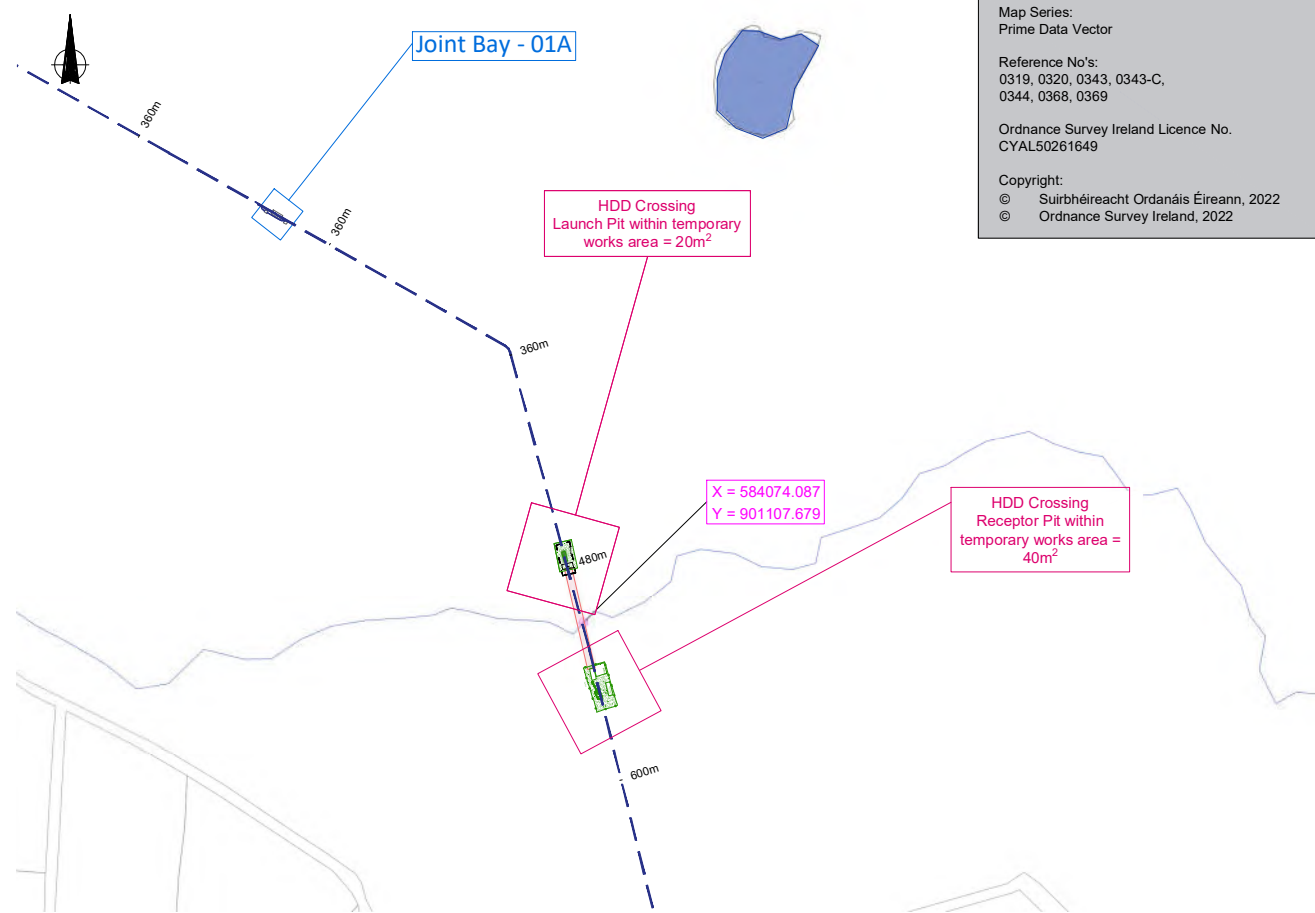
PROJECT NUMBER
05-725

SHEET TITLE
Typical Trench Sections for
Crossing Watermain/Wastewater

SHEET NUMBER
05725-DR-130



Image 1 : Typical Directional Drilling Rig



Map Series:
Prime Data Vector

Reference No's:
0319, 0320, 0343, 0343-C,
0344, 0368, 0369

Ordnance Survey Ireland Licence No.
CYAL50261649

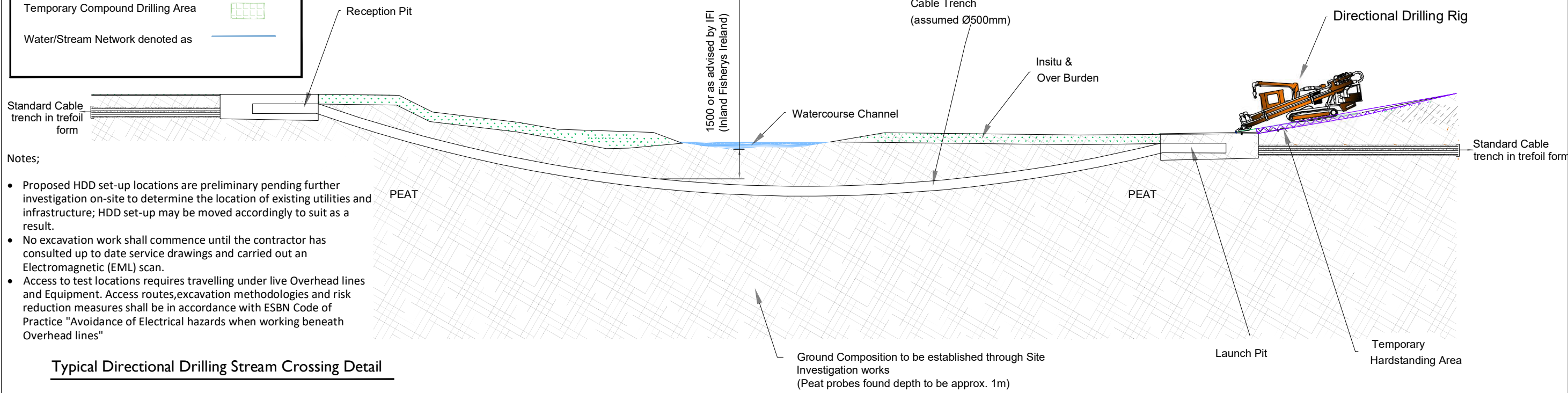
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Image 2 : Watercourse Channel

PLAN LAYOUT - LEGEND

| | |
|----------------------------------|--|
| UGC Grid Connection Route | |
| Temporary Compound Drilling Area | |
| Water/Stream Network denoted as | |



- Notes;
- Proposed HDD set-up locations are preliminary pending further investigation on-site to determine the location of existing utilities and infrastructure; HDD set-up may be moved accordingly to suit as a result.
 - No excavation work shall commence until the contractor has consulted up to date service drawings and carried out an Electromagnetic (EML) scan.
 - Access to test locations requires travelling under live Overhead lines and Equipment. Access routes, excavation methodologies and risk reduction measures shall be in accordance with ESNB Code of Practice "Avoidance of Electrical hazards when working beneath Overhead lines"

Typical Directional Drilling Stream Crossing Detail

| <p>Head Office Beenreigh, Abbeydorney, Tralee, Co. Kerry Ireland Tel: 00353 66 7135710</p> | <p>CLIENT</p> | <p>PROJECT</p> <p>Clogherchor Wind Farm 110kV Grid Connection</p> | <p>SHEET TITLE</p> <p>HDD Crossing Details for existing watercourse - Stream No.1</p> | <p>ISSUE/REVISION</p> <table border="1"> <thead> <tr> <th>I/R</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>P01</td> <td>11.01.23</td> <td>Issued for Information</td> </tr> <tr> <td>P00</td> <td>03.10.22</td> <td>Issued for Information</td> </tr> </tbody> </table> | I/R | DATE | DESCRIPTION | P01 | 11.01.23 | Issued for Information | P00 | 03.10.22 | Issued for Information |
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| <p>PROJECT NUMBER</p> <p>05-725</p> | <p>SHEET NUMBER</p> <p>05725-DR-131</p> | <p>DRAWING STATUS</p> <p>Issued for Information</p> | | | | | | | | | | | |



Image 1 : Typical Directional Drilling Rig

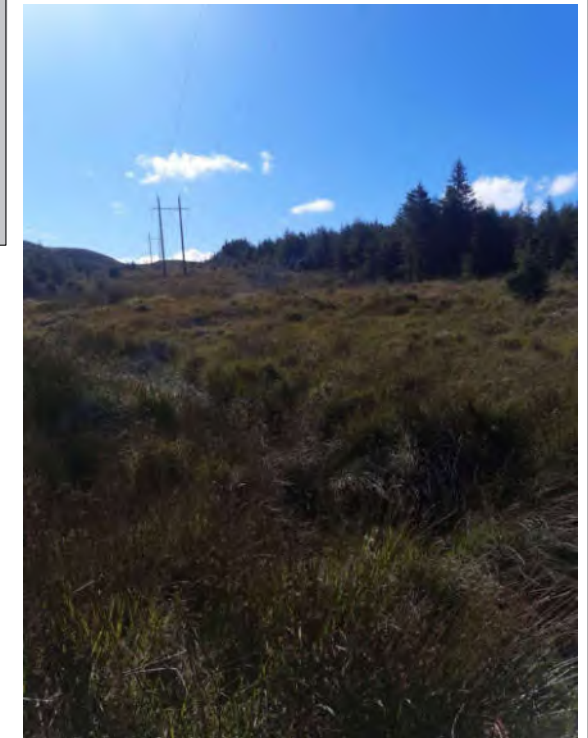
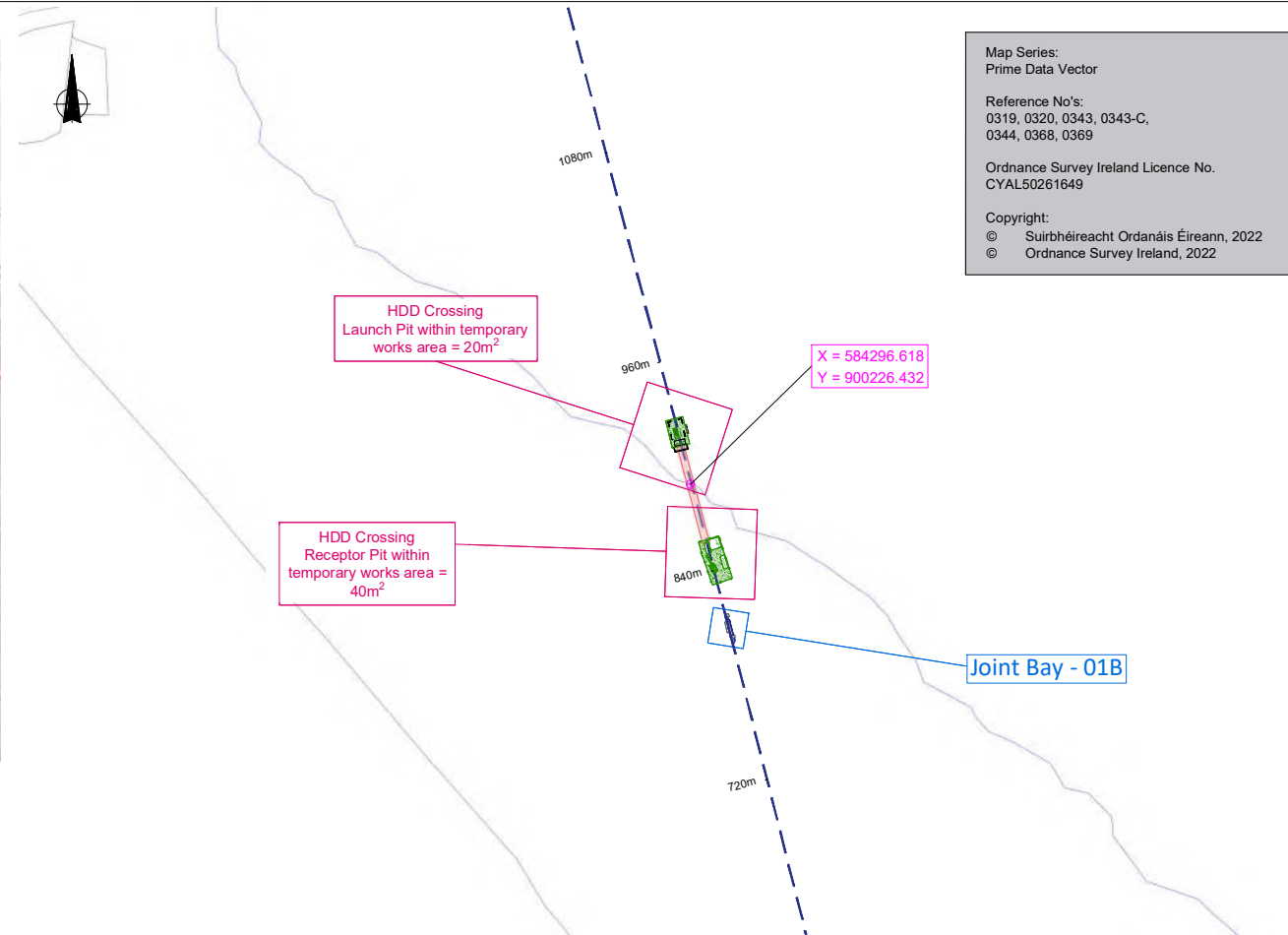
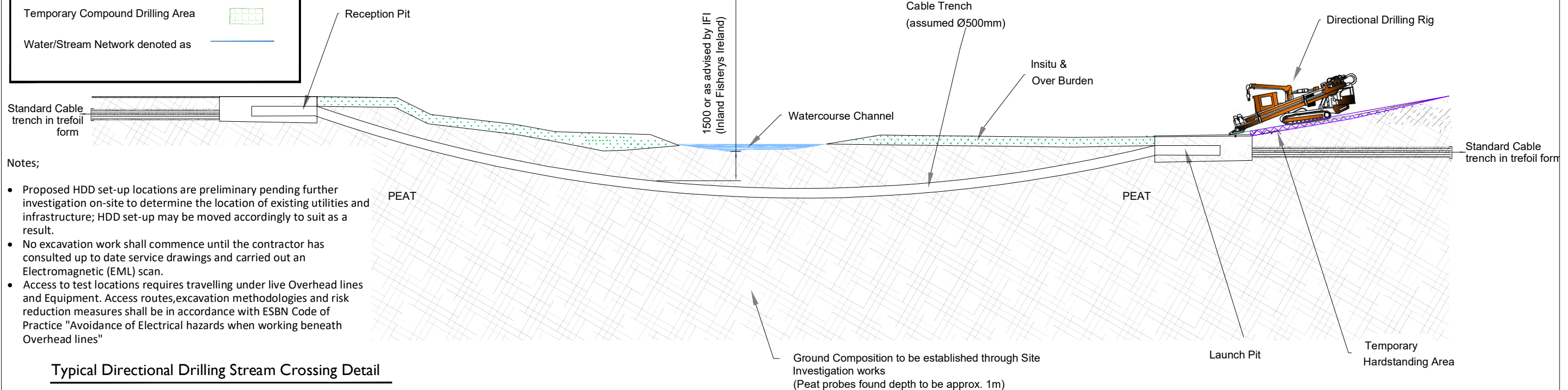


Image 2 : Watercourse Channel

PLAN LAYOUT - LEGEND

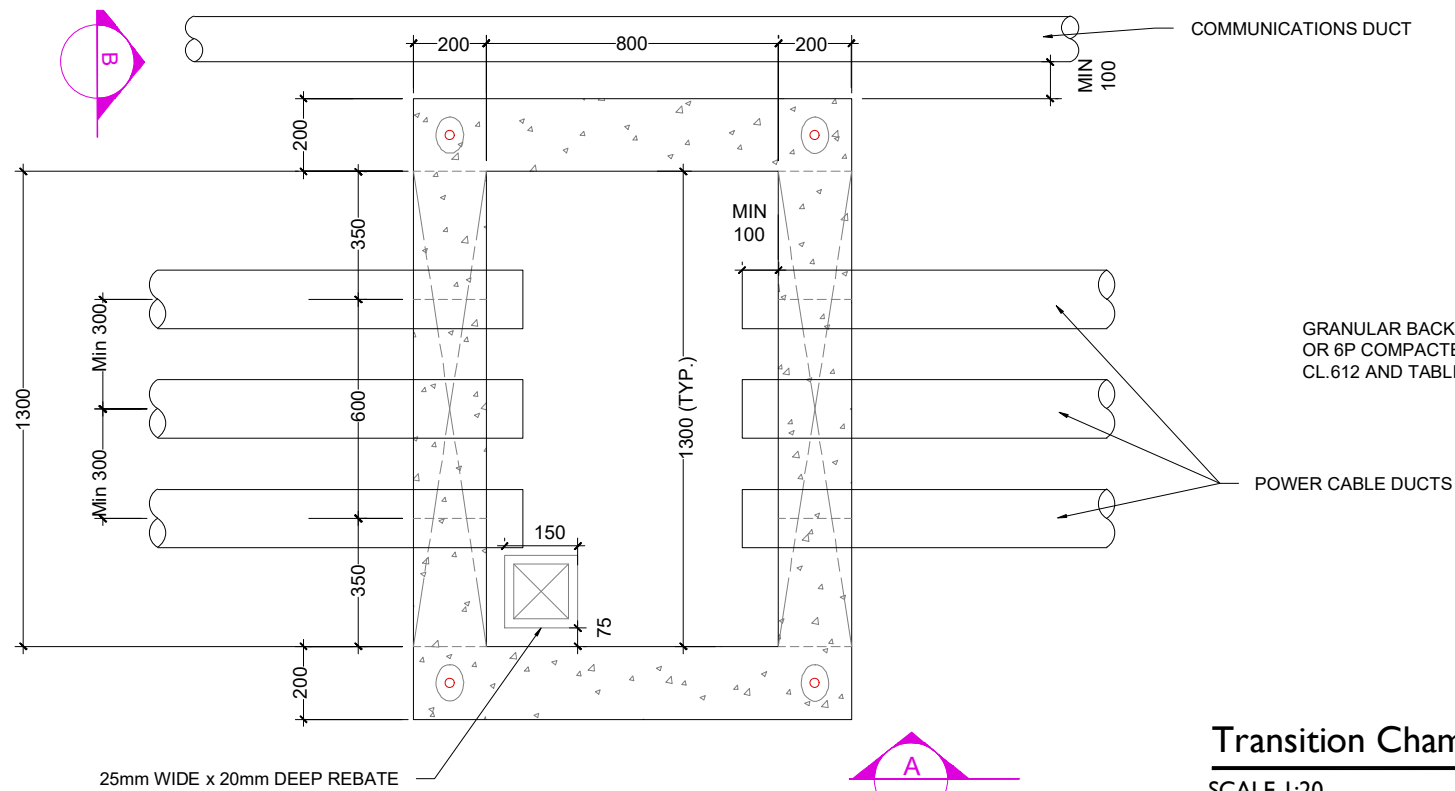
| | |
|----------------------------------|--|
| UGC Grid Connection Route | |
| Temporary Compound Drilling Area | |
| Water/Stream Network denoted as | |



- Notes;
- Proposed HDD set-up locations are preliminary pending further investigation on-site to determine the location of existing utilities and infrastructure; HDD set-up may be moved accordingly to suit as a result.
 - No excavation work shall commence until the contractor has consulted up to date service drawings and carried out an Electromagnetic (EML) scan.
 - Access to test locations requires travelling under live Overhead lines and Equipment. Access routes, excavation methodologies and risk reduction measures shall be in accordance with ESNB Code of Practice "Avoidance of Electrical hazards when working beneath Overhead lines"

Typical Directional Drilling Stream Crossing Detail

| <p>Head Office Beenreigh, Abbeydorney, Tralee, Co. Kerry Ireland Tel: 00353 66 7135710</p> | <p>CLIENT</p> | <p>PROJECT</p> <p>Clogherchor Wind Farm 110kV Grid Connection</p> | <p>SHEET TITLE</p> <p>HDD Crossing Details for existing watercourse - Stream No.2</p> | <p>ISSUE/REVISION</p> <table border="1"> <thead> <tr> <th>I/R</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>P01</td> <td>11.01.23</td> <td>Issued for Information</td> </tr> <tr> <td>P00</td> <td>03.10.22</td> <td>Issued for Information</td> </tr> </tbody> </table> | I/R | DATE | DESCRIPTION | P01 | 11.01.23 | Issued for Information | P00 | 03.10.22 | Issued for Information |
|--|---|---|---|--|-------------|------|-------------|-----|----------|------------------------|-----|----------|------------------------|
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| <p>PROJECT NUMBER</p> <p>05-725</p> | <p>SHEET NUMBER</p> <p>05725-DR-132</p> | <p>DRAWING STATUS</p> <p>Issued for Information</p> | | | | | | | | | | | |



Typical Plan of Transition Chamber

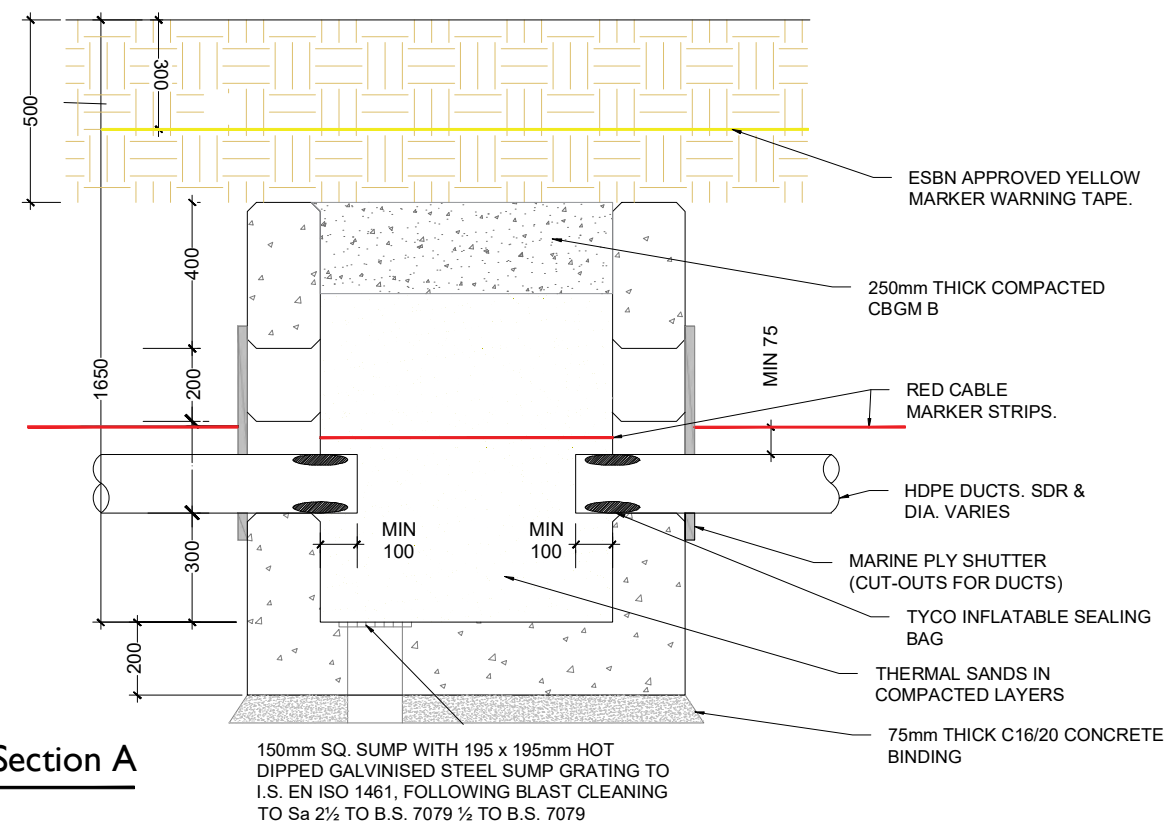
SCALE 1:20

NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED.
2. TELCOM DUCTS NOT TO BE ROUTED THROUGH TRANSITION CHAMBER IF TRANSITION CHAMBER IS USED TO INTERFACE WITH HDD SECTION, THEN THE TELECOMS DUCT SDR 17.6 SHOULD BE CHAMFERED WHEN COUPLED WITH SDR 11 DUCTS
3. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
4. TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION MAY BE REQUIRED DEPENDENT ON THE SUBSOIL
5. THE CONSTRUCTION SHOWN, IS APPLICABLE ONLY WHERE THE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 100kN/m BEARING CAPACITY
6. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
7. THE CENTRE LINE OF THE DUCTS ENTERING THE CHAMBER SHALL BE ALIGNED WITH THE DUCTS ON THE OPPOSITE SIDE, SO THAT THE CABLE IS PULLED IN A STRAIGHT LINE
8. DUCTS SHALL APPROACH THE CHAMBER IN A STRAIGHT ALIGNMENT (HORIZONTAL OR VERTICAL) FOR A MINIMUM OF 3 METERS BEFORE THE WALL OPENING
9. CARRAIGWAY COVERS AND FRAMES TO BE TO B.S EN 124.
10. THE DEPTH FROM GROUND LEVEL TO THE TOP OF WALL CONSTRUCTION SHALL BE 500mm IN CULVATED FIELDS AND GRASSED LANDS.
11. FINAL POSITION OF TRANSITION CHAMBERS SHALL BE AGREED WITH EIRGRID

Transition Chamber Detail - Section A

SCALE 1:20



Isometric : Chamber Arrangement

SCALE 1:20



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PROJECT

Clogherchor Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-725

SHEET NUMBER
05725-DR-133

SHEET TITLE

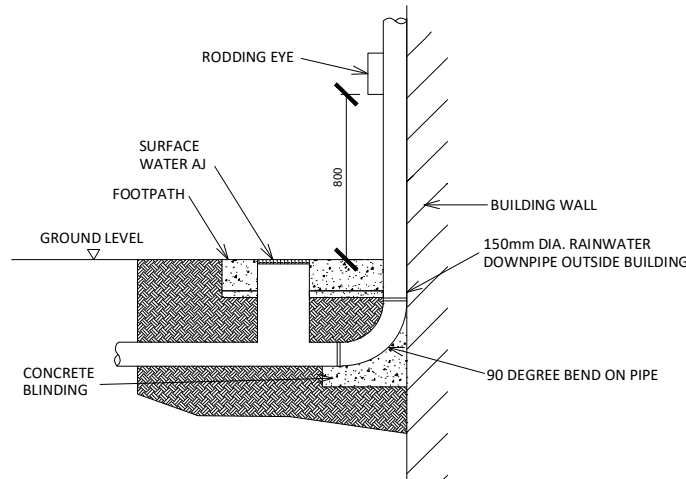
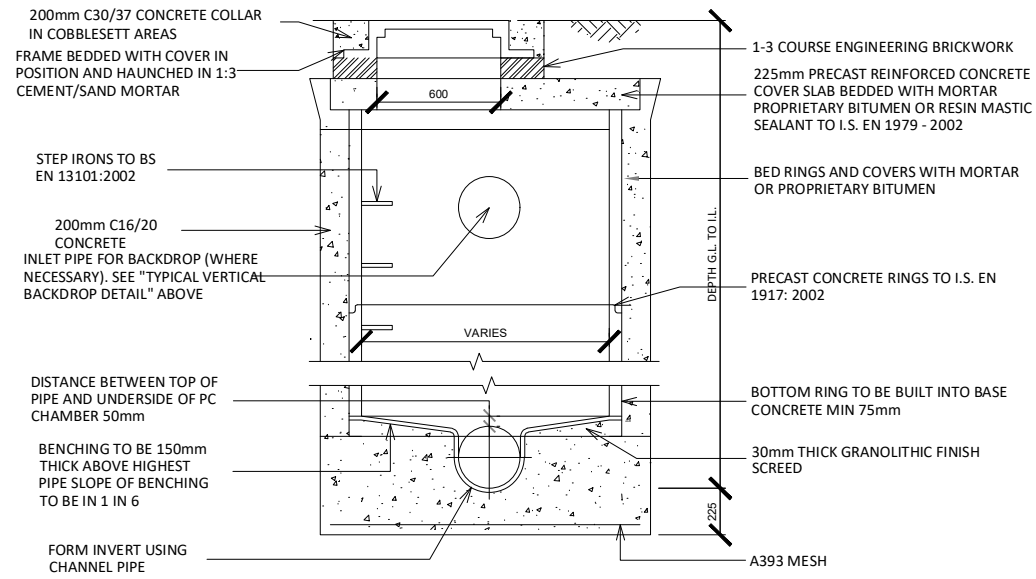
Typical Transition
Chamber Details

DRAWING STATUS
For Information

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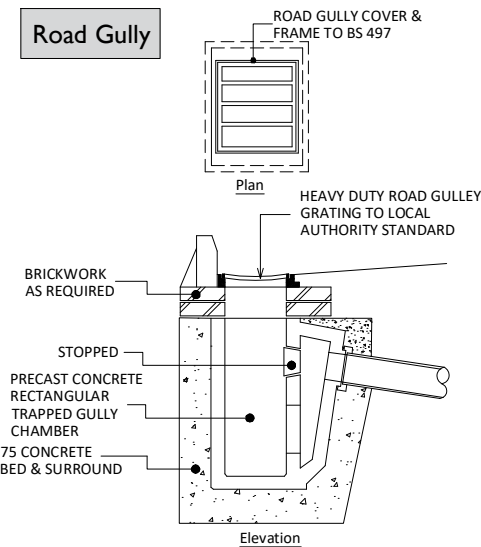
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Manhole



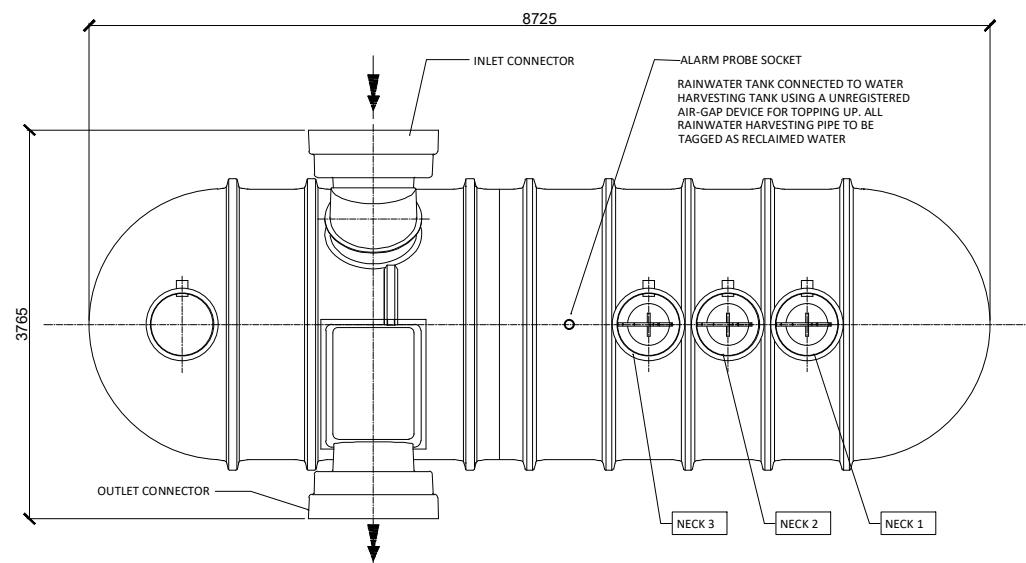
Typical Rainwater Downpipe Detail - Elevation
Scale : 1:25

Road Gully



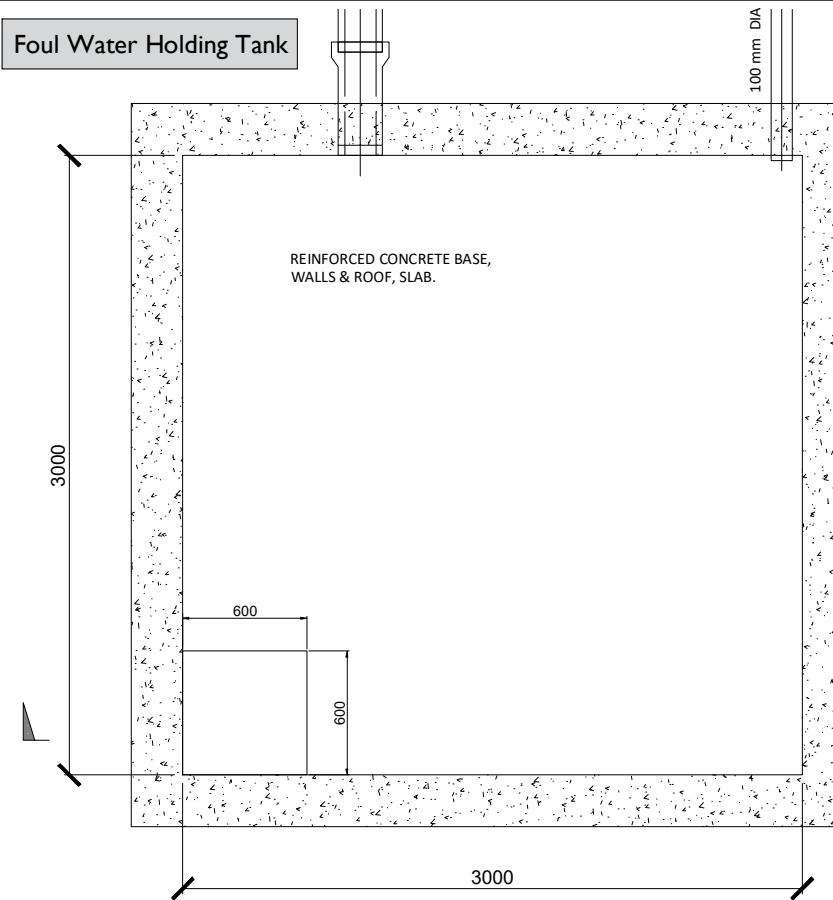
Typical Road Gully Detail
Scale : 1:25

Retention Separator Tank



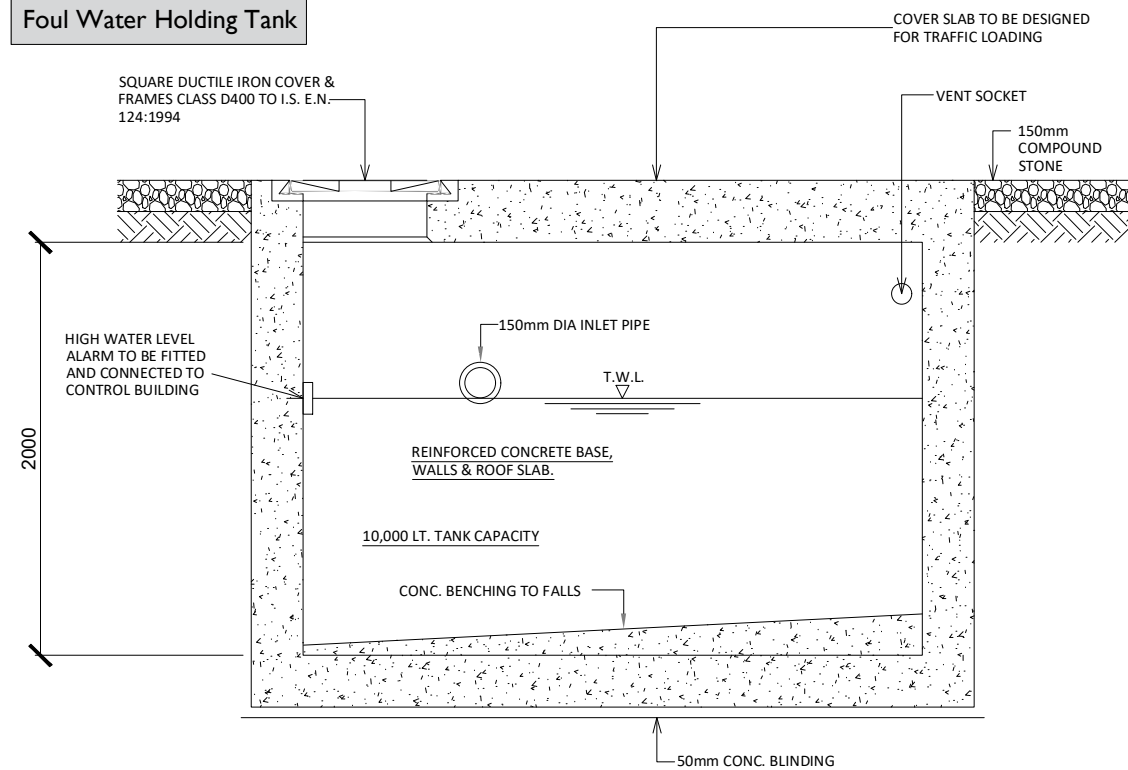
Typical Retention Separator Tank - Plan
Scale : 1:50

Foul Water Holding Tank



Typical Foul Water Holding Tank - Plan
Scale : 1:25

Foul Water Holding Tank



Typical Foul Water Holding Tank - Elevation
Scale : 1:25

PROJECT

Clogherchor Wind Farm
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NOTES: -

- This drawing is to be read in conjunction with relevant engineering drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

LEGEND: -

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SHEET TITLE

Substation Compound drainage,
Retention separator tank, Foul
water holding tank details

SHEET NUMBER

05725-DR-134

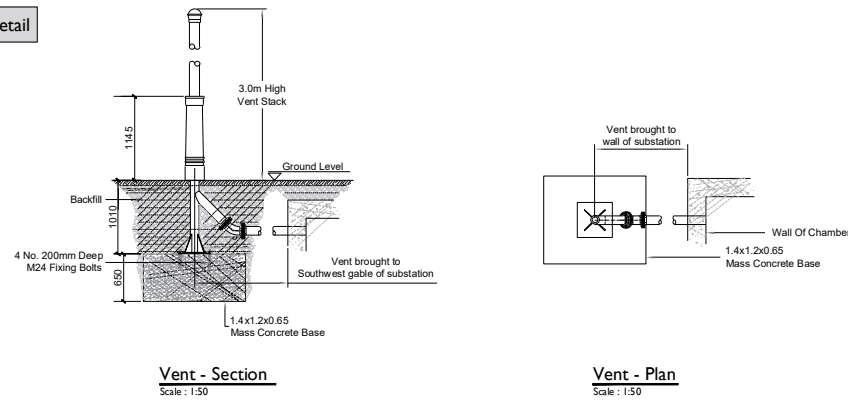
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 05-725

SHEET TITLE
 Rain Water Harvesting Tank & Vent details

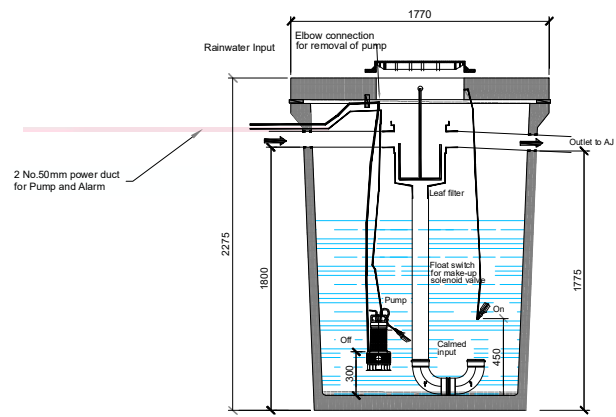
SHEET NUMBER
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Vent Stack detail

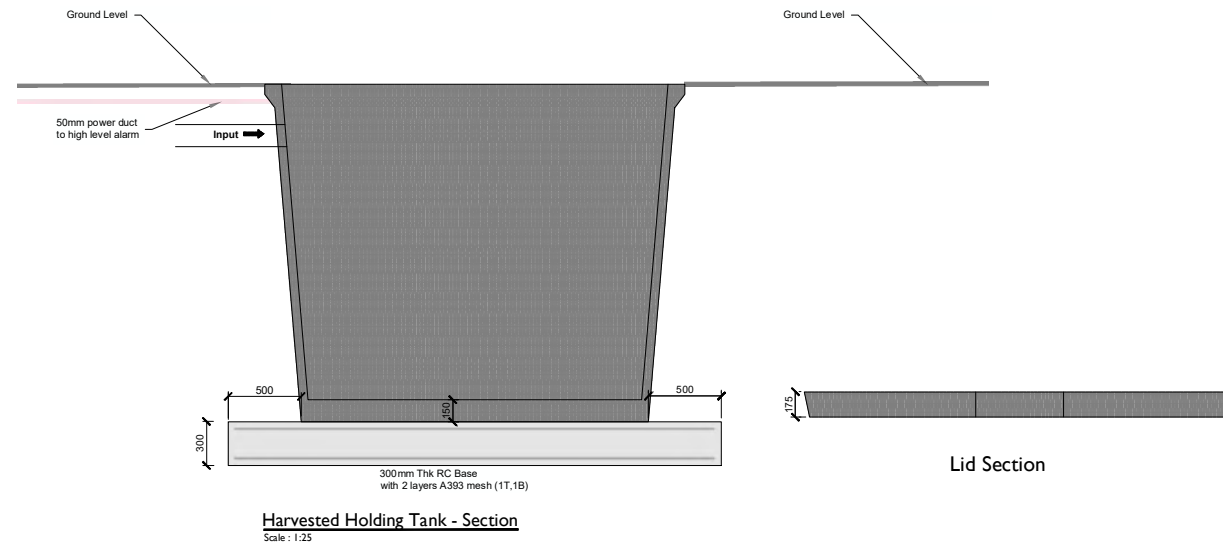


Harvested Water Holding Tank

3500 litre Rainwater harvesting tank complete with overflow, pump, with 30 micron & 5 micron filtration & uv sterilisation system to allow rainwater to be re-used as potable water

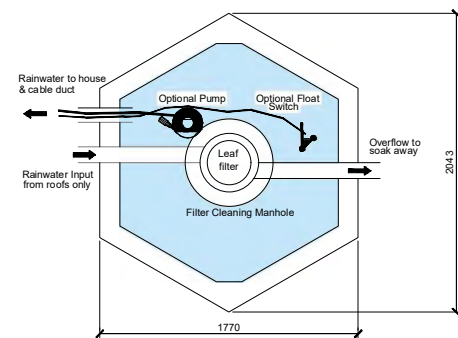


Harvested Holding Tank backfilled with 6F2 Stone fill



Lid Section

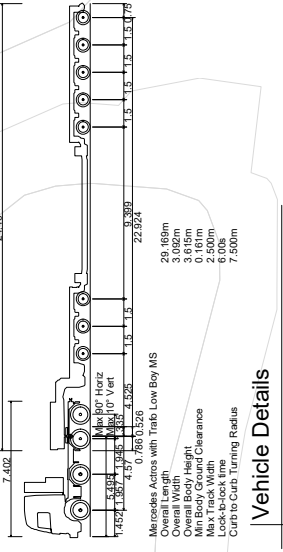
Rain Water Harvesting - H+ Tank (3,500 Litres)
 Scale: 1:25



Tank Top Plan

Lid Top Plan

Harvested Holding Tank (Volume 5m³)
 Scale: 1:25

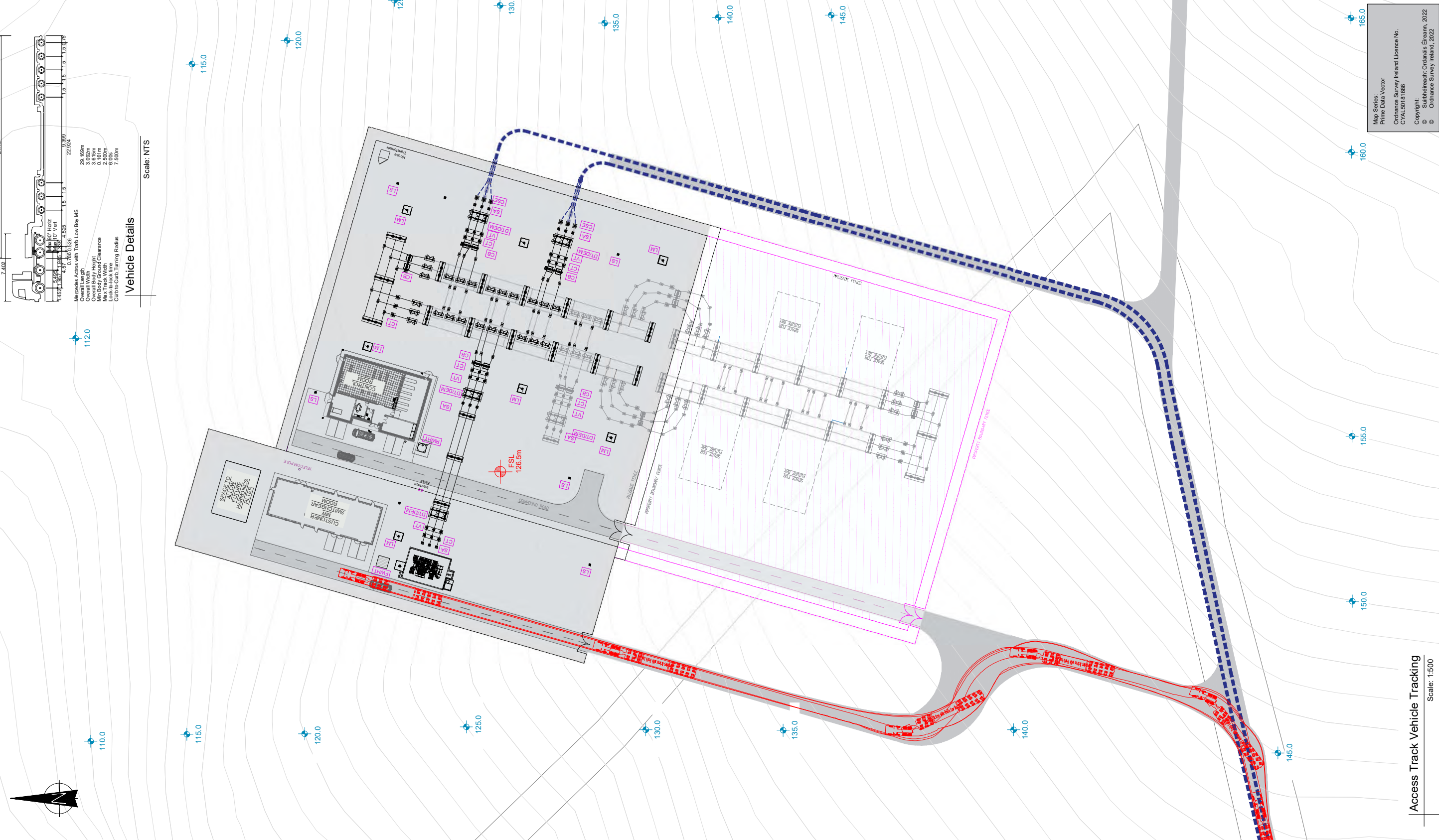


Vehicle Details
Scale: NTS

LEGEND:-

- Proposed Levels shown thus
- Clogherchor UGC Loop In Circuits As Diagram to Telerack shown thus
- Permanent Internal Access tracks shown thus
- Clogherchor Substation shown thus
- Clogherchor Substation Future buildable space shown thus
- Vehicle tracking shown thus

NOTES:-
See Vehicle details for Mercedes Actros with Trail Low Boy



Access Track Vehicle Tracking
Scale: 1:500



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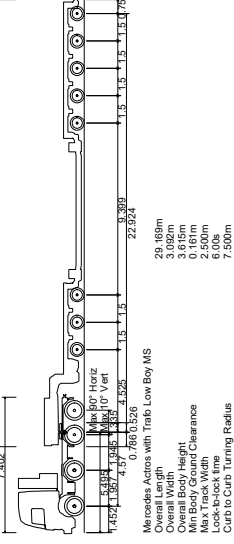
SHEET TITLE

Substation Layout Plan
with Vehicle Tracking

SHEET NUMBER

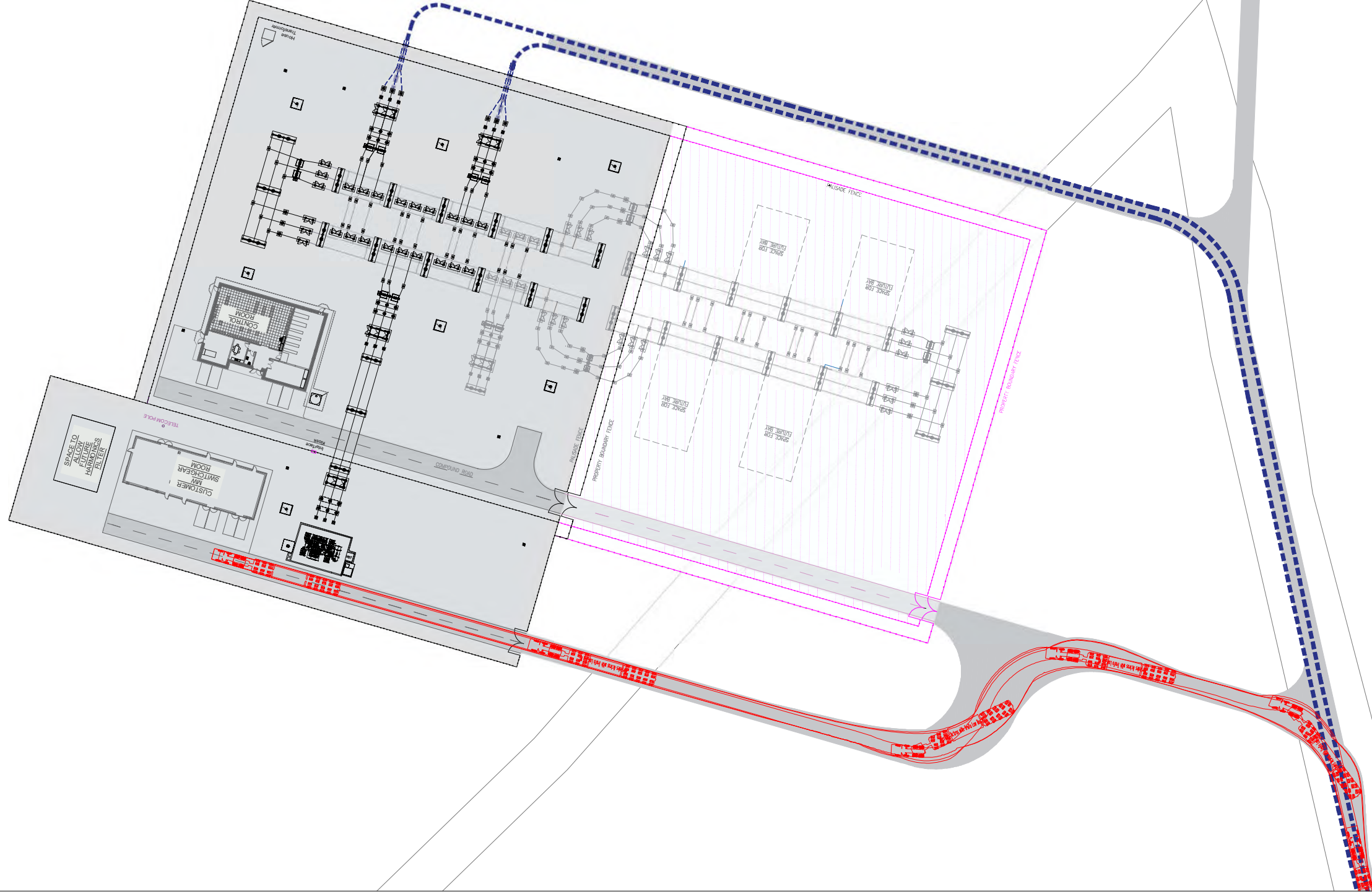
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Vehicle Details

Scale: NTS



LEGEND:-

| | |
|--|--|
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NOTES:-
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Substation Layout Plan
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