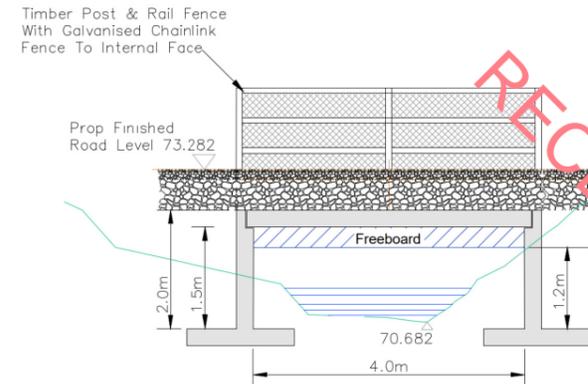
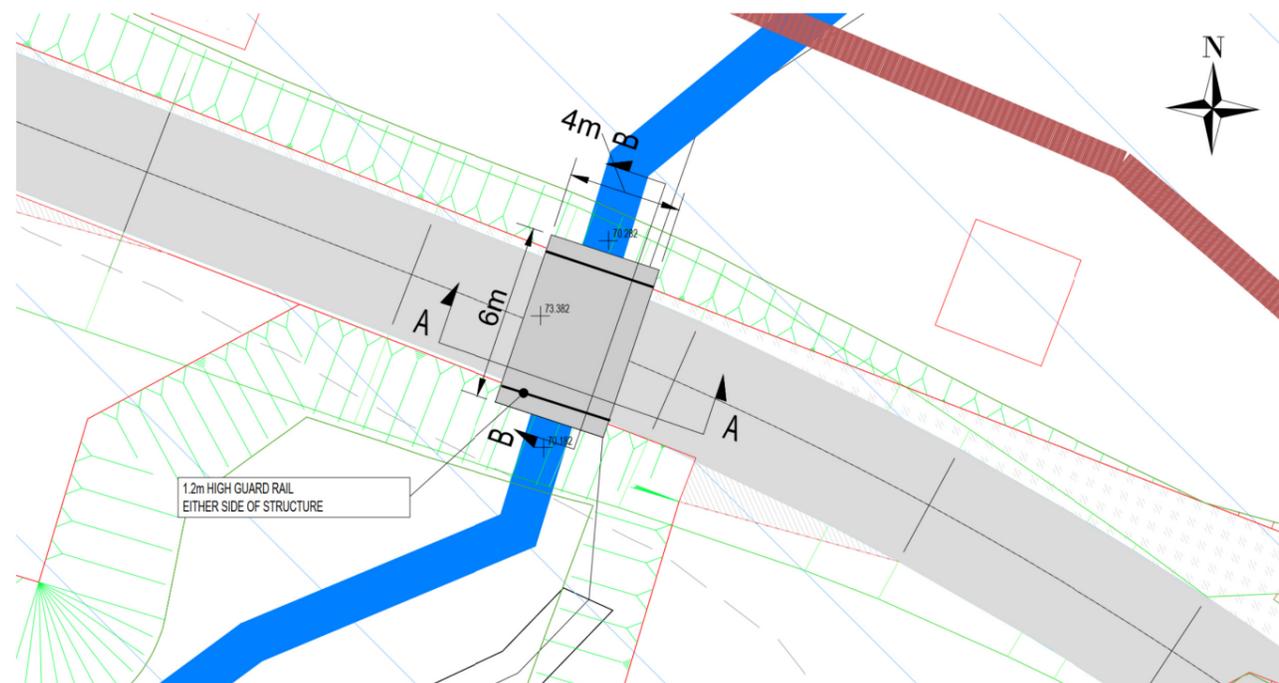
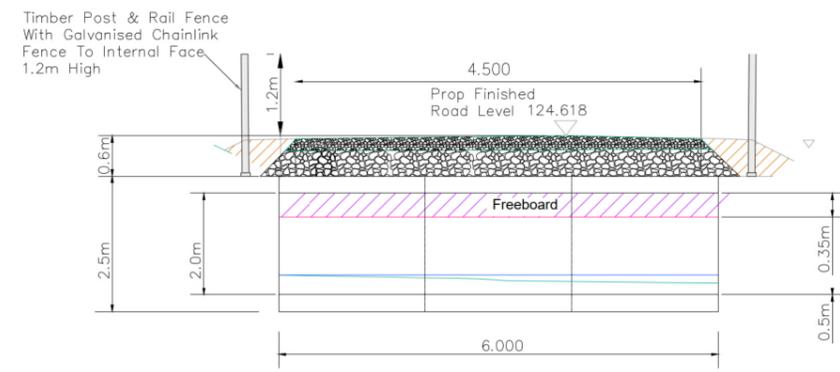


Site Layout Plan  
Scale: 1:1000 (A1)



SECTION A - A THROUGH PROPOSED WATERCOURSE CROSSING WC 3  
Scale 1:50



SECTION B - B THROUGH PROPOSED WATERCOURSE CROSSING WC 4  
Scale 1:100



Photography of Existing Watercourse  
Scale: NTS

RECEIVED: 26/01/2023

**Legend**

Rev	Date	By	Comment

**Client**  
TULLAGHMORE WIND FARM LTD

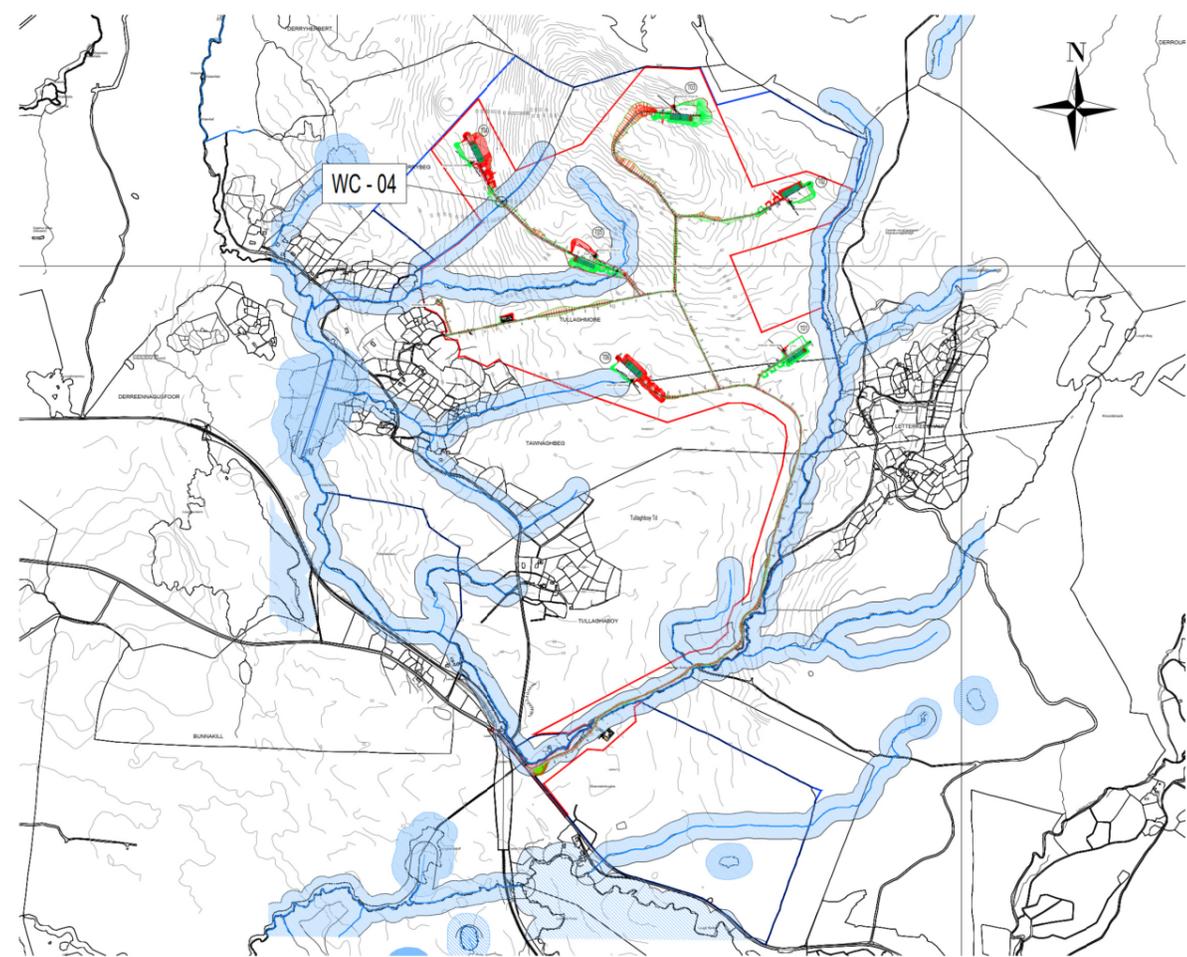
**Client Representative**  
 **JENNINGS O'DONOVAN**  
CONSULTING ENGINEERS

**Project**  
TULLAGHMORE WIND FARM,  
CO. GALWAY

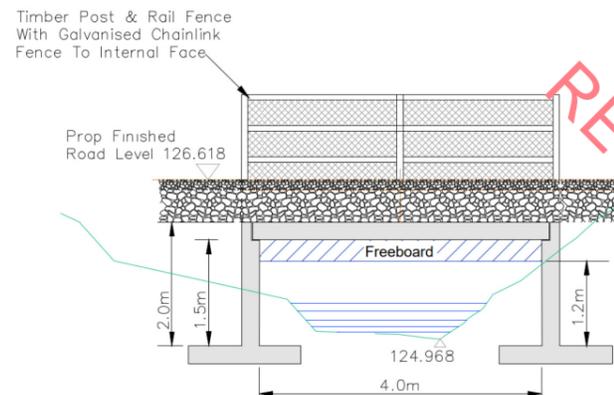
**Title**  
WATERCOURSE CROSSING 3

CYAL50165696  
COPYRIGHT ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

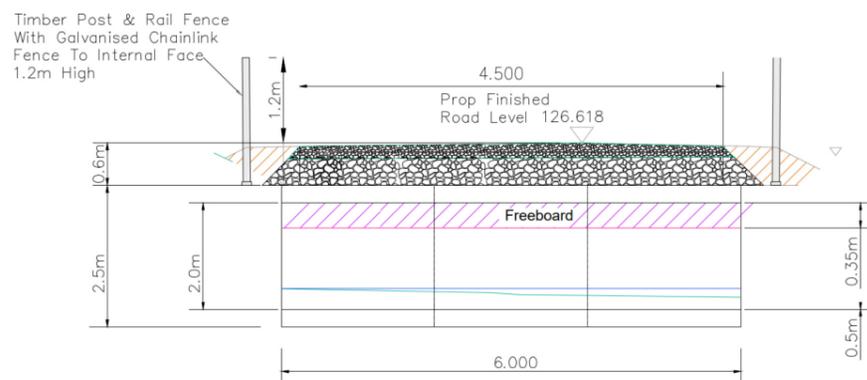
<b>Drg. By</b>	SB	<b>Drg No</b>	-
<b>Checked By</b>	AOG	<b>Rev</b>	0
<b>Stage</b>	EIAR	<b>Date</b>	16/12/22
<b>Scale</b>	NTS (A3)	<b>Figure</b>	2.6c



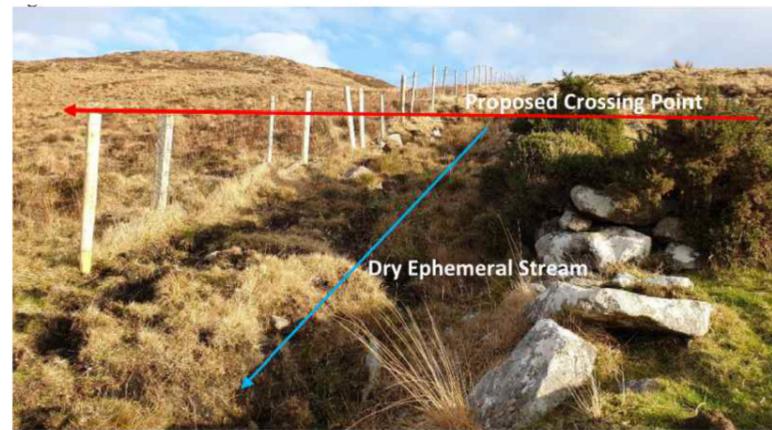
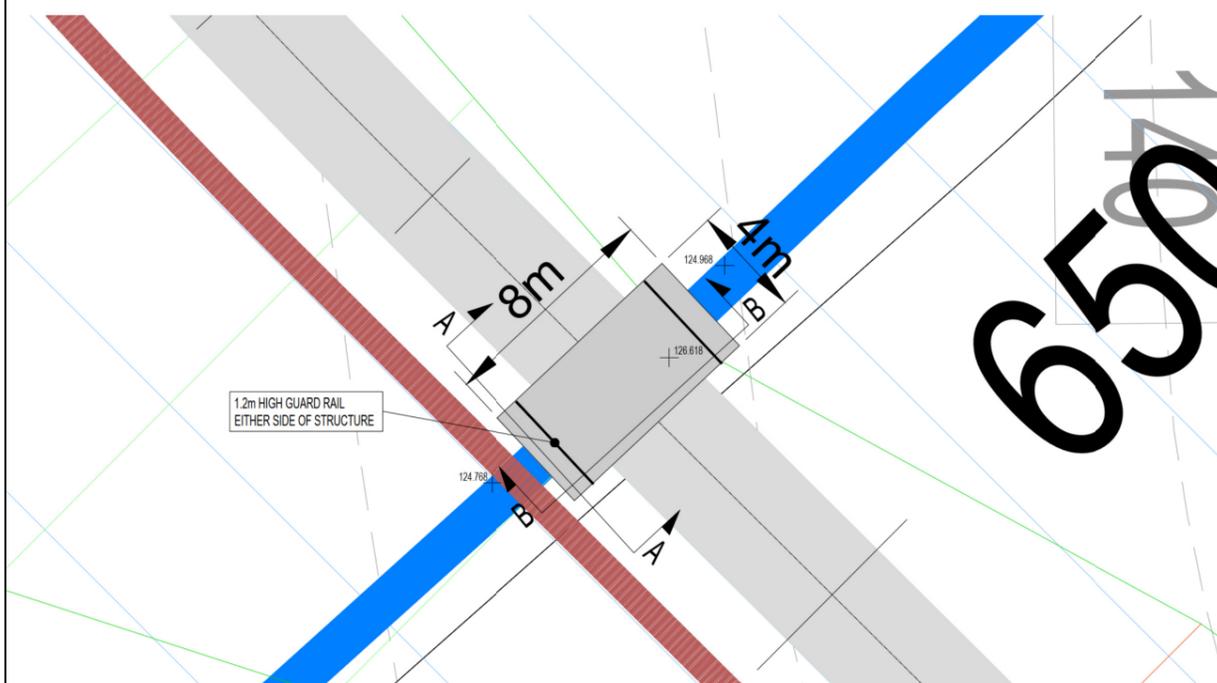
Site Layout Plan  
Scale: 1:1000 (A1)



SECTION A - A THROUGH PROPOSED  
WATERCOURSE CROSSING WC 4  
Scale 1:50



SECTION B - B THROUGH PROPOSED  
WATERCOURSE CROSSING WC 4 Scale 1:100



Photography of Existing Watercourse  
Scale: NTS

**Legend**

Rev	Date	By	Comment

**Client**  
TULLAGHMORE WIND FARM LTD

**Client Representative**  

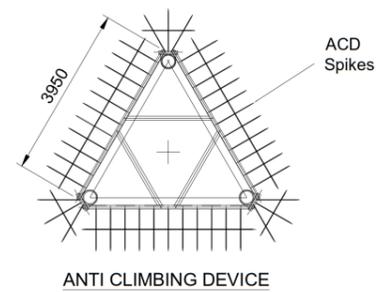
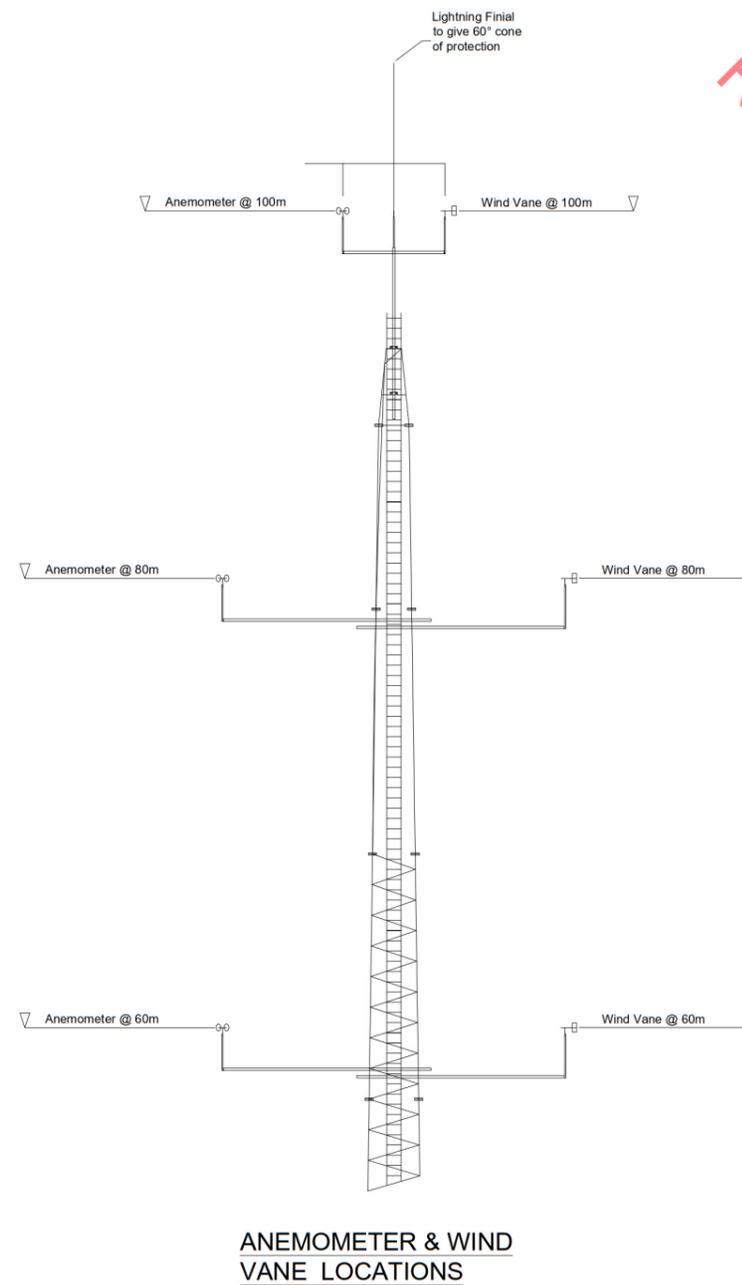
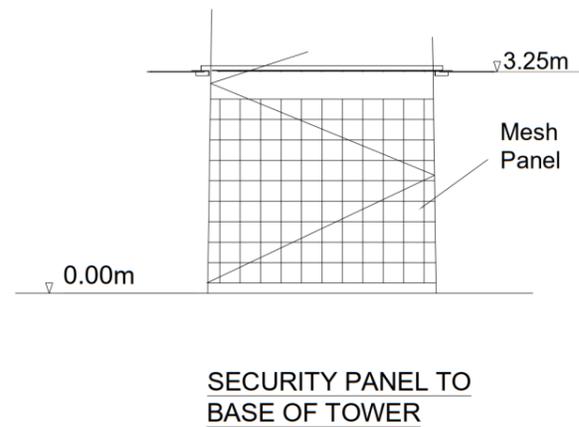
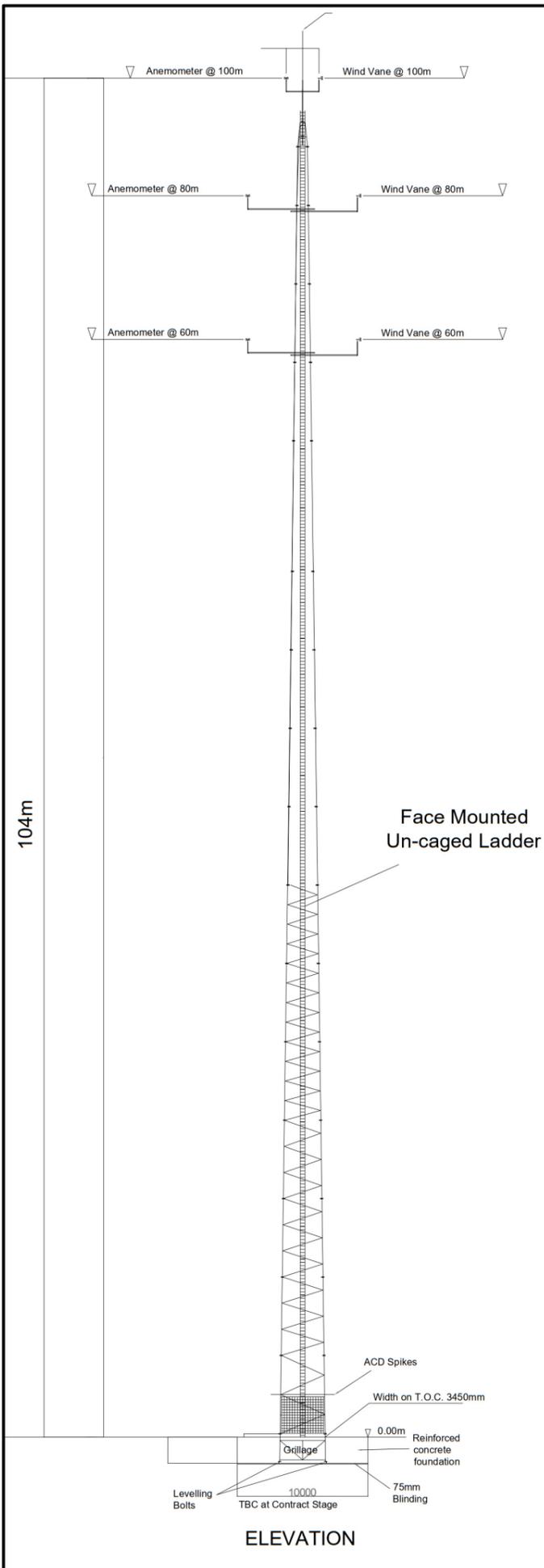

**Project**  
TULLAGHMORE WIND FARM,  
CO. GALWAY

**Title**  
WATERCOURSE CROSSING 4

CYAL50165696  
COPYRIGHT ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

<b>Drg. By</b>	SB	<b>Drg No</b>	-
<b>Checked By</b>	AOG	<b>Rev</b>	0
<b>Stage</b>	EIAR	<b>Date</b>	16/12/22
<b>Scale</b>	NTS (A3)	<b>Figure</b>	2.6d

RECEIVED: 26/01/2023



RECEIVED: 26/01/2023

LEGEND

Rev	Date	By	Comment
-----	------	----	---------

**Client**  
TULLAGHMORE WIND FARM LTD.

**Client Representative**  

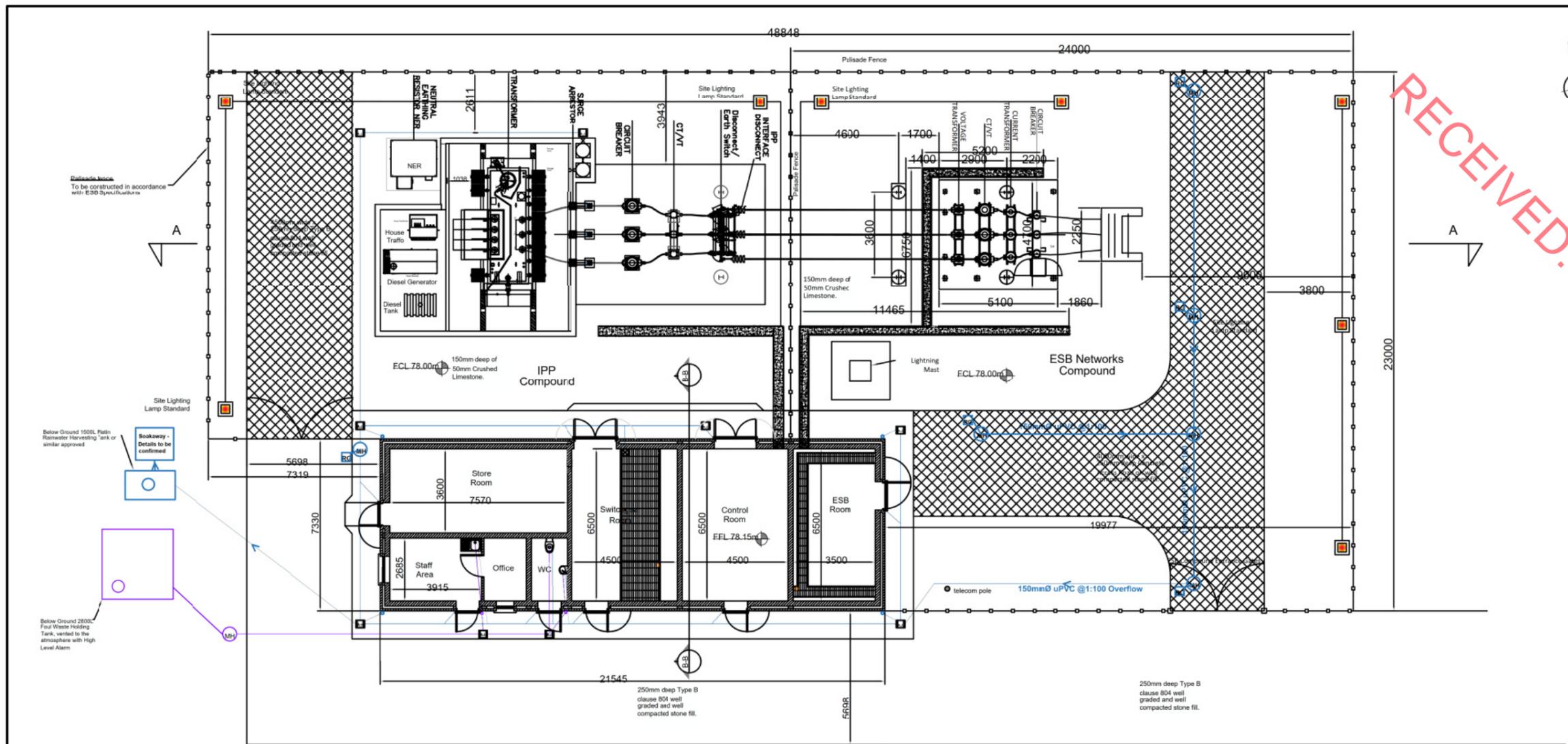
**JENNINGS O'DONOVAN**  
 & PARTNERS LIMITED  
 CONSULTING ENGINEERS

**Project**  
TULLAGHMORE WIND FARM,  
CO. GALWAY

**Title**  
FIGURE 2.7  
MET MAST SCHEMATIC

CYAL50244098  
COPYRIGHT ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

<b>Drg. By</b>	DT	<b>Job No.</b>	6276
<b>Checked By</b>	KON/AOG	<b>Rev</b>	0
<b>Stage</b>	Planning	<b>Date</b>	AUGUST 2022
<b>Scale</b>	NOT TO SCALE	<b>Figure</b>	2.7



**LEGEND**

Rev	Date	By	Comment

**Substation Plan & Compound Layout**  
SCALE 1:100

PLEASE NOTE THAT THE SUBSTATION LAYOUT AND SUBSTATION COMPONENTS ILLUSTRATED ON THIS DRAWING ARE INDICATIVE ONLY. THE FULL SPECIFICATION AND DETAIL WILL BE DETERMINED FROM THE ELECTRICAL EQUIPMENT SUPPLIER AND ESB FUNCTIONAL SPECIFICATION.

- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
  - ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
  - ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
  - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

**Client**  
TULLAGHMORE WIND FARM LTD.

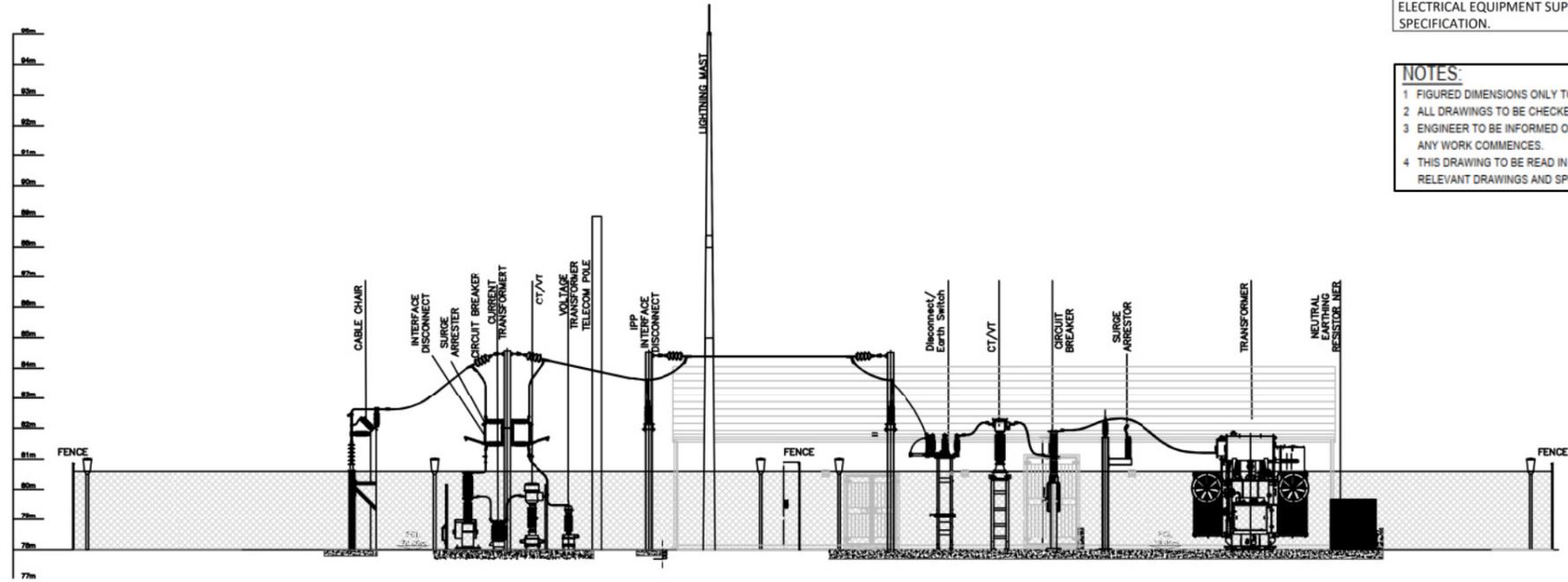
**Client Representative**  
 JENNINGS O'DONOVAN & PARTNERS LIMITED  
CONSULTING ENGINEERS

**Project**  
TULLAGHMORE WIND FARM,  
CO. GALWAY

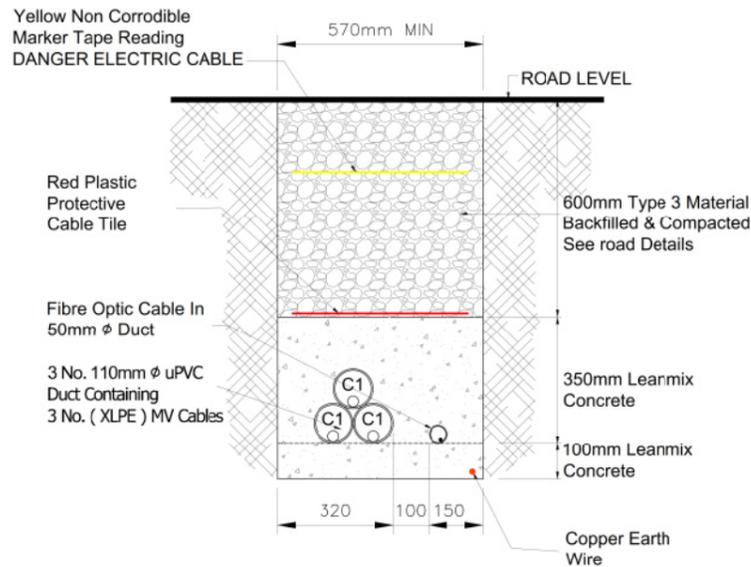
**Title**  
FIGURE 2.8 38kV SUBSTATION  
DETAILS

CYAL50244098  
COPYRIGHT ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

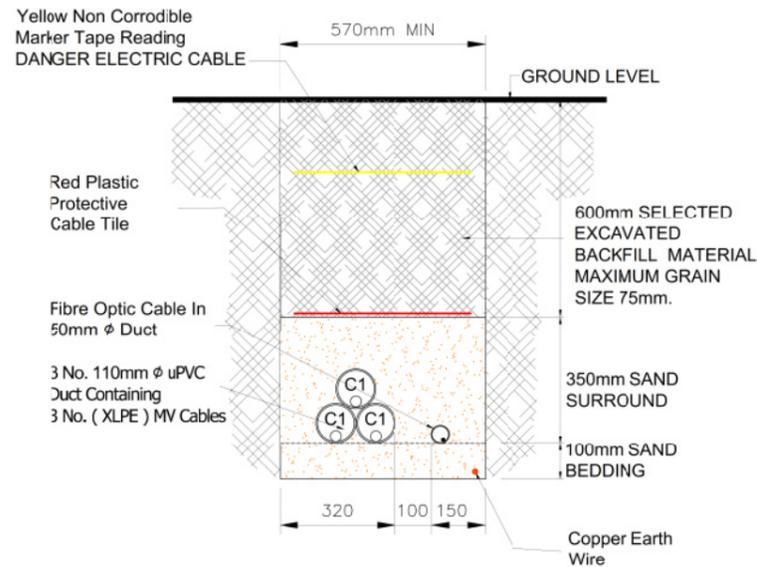
<b>Drg. By</b>	DT	<b>Job No.</b>	6276
<b>Checked By</b>	KON/AOG	<b>Rev</b>	0
<b>Stage</b>	Planning	<b>Date</b>	AUGUST 2022
<b>Scale</b>	NOT TO SCALE	<b>Figure</b>	2.8



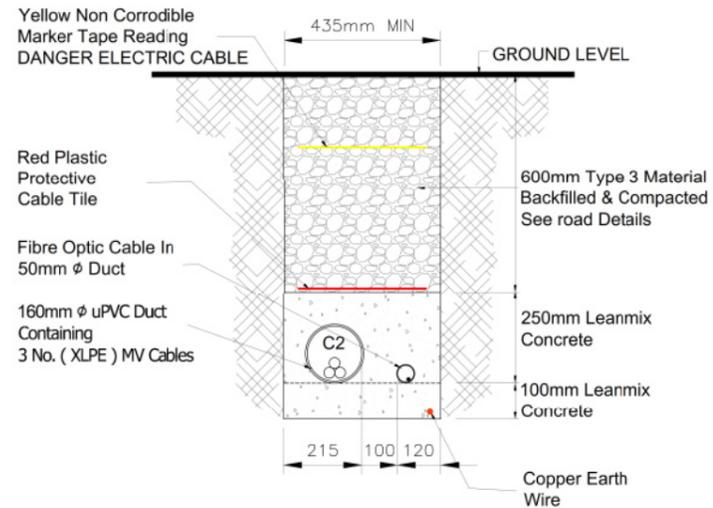
**Section A-A Through Substation Compound**  
SCALE 1:100



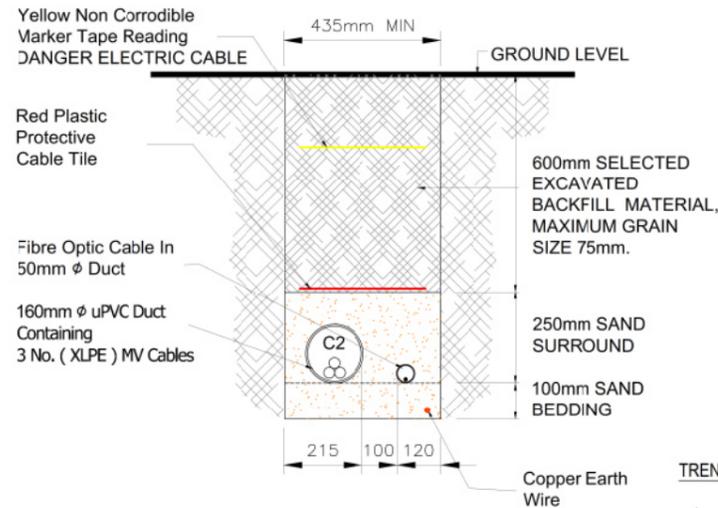
**CABLE TRENCH IN SITE ROADWAY SINGLE CIRCUIT C1**  
Scale 1:20



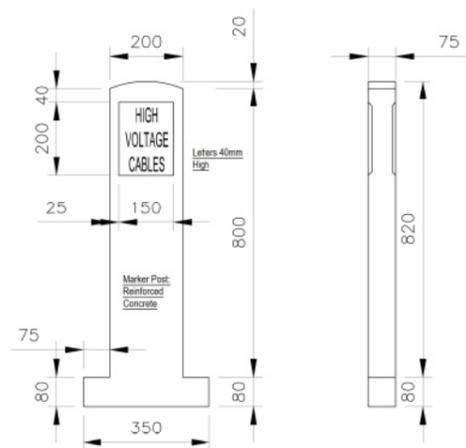
**CABLE TRENCH IN OPEN GROUND SINGLE CIRCUIT C1**  
Scale 1:20



**CABLE TRENCH IN SITE ROADWAY SINGLE CIRCUIT C2**  
Scale 1:20



**CABLE TRENCH IN OPEN GROUND SINGLE CIRCUIT C2**  
Scale 1:20



**FRONT ELEVATION**  
Scale 1:20

**SIDE ELEVATION**  
Scale 1:20

- NOTES:**
- 1 FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
  - 2 ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
  - 3 ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
  - 4 THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

**TRENCH NOTES:**

1. ALL DUCTING TO BE RED ESB SPEC.
2. DUCTING TO BE 110mm & 160mm uPVC AND 50mm HDPE COIL.
3. DUCTING SURROUND TO BE SAND. WHERE DUCTS CROSS ROADS, HARDSTAND ETC, BACK FILL TO CONSIST OF CBM4 GRADE LEAN MIX SURROUND.
4. TRENCHES TO BE BACKFILLED ON TOP OF STONE FREE MATERIAL WITH A SUITABLE BACKFILL MATERIAL. DUE CARE TO BE TAKEN TO ENSURE THAT ALL BACKFILLED IS FREE FROM STONES, TREES ROOTS OR OTHER DEBRIS THAT COULD DAMAGE INSTALLATION.
5. MANDREL, DRAW ROPE (MINIMUM 12mmØ), 160mm AND 200mm POWER CABLES TO BE PULLED THROUGH INSTALLED DUCT BY ELECTRICAL CONTRACTOR. DUCT TO BE CERTIFIED AS INTACT, CLEANED AND CAPPED AT BOTH ENDS PRIOR TO ANY CABLE PULLING ACTIVITY.
6. MINIMUM DISTANCE BETWEEN ANY POWER CIRCUITS WITHIN A TRENCH AS SHOWN.
7. STRAIGHT DUCTS TO BE USED WHERE POSSIBLE.
8. WHERE MANUFACTURED BENDS ARE REQUIRED, SLOW BENDS ARE TO BE USED (15° OR LESS OVER 1200mm).
9. JOINT BAYS ARE REQUIRED EVERY 500m FOR CABLE RUNS IN EXCESS OF 500m AND/OR AT SIGNIFICANT CHANGES IN DIRECTION.
10. PULLING PITS REQUIRED AT 500m INTERVALS OR AS REQUIRED BY CABLE INSTALLATION TEAM.
11. EXACT LOCATION OF DUCTS TO BE DECIDED BY CIVIL CONTRACTOR.
12. CABLE MARKERS SHALL BE ERECTED EVERY 50m AND AT ALL ROAD CROSSINGS AND CHANGES IN DIRECTION. FOR CROSS COUNTRY SECTIONS CABLE MARKERS WILL BE PLACED ON BOTH SIDES OF THE TRENCH.
13. BACKFILL MATERIAL TO HAVE A MINIMUM THERMAL RESISTIVITY AS SPECIFIED BY THE ELECTRICAL DESIGNERS.

**LEGEND**

Rev	Date	By	Comment

**Client**  
TULLAGHMORE WIND FARM LTD.

**Client Representative**  
 JENNINGS O'DONOVAN & PARTNERS LIMITED  
CONSULTING ENGINEERS

**Project**  
TULLAGHMORE WIND FARM,  
CO. GALWAY

**Title**  
FIGURE 2.9 INTERNAL CABLE  
DUCTING

CYAL50244098  
COPYRIGHT ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

<b>Drg. By</b>	DT	<b>Job No.</b>	6276
<b>Checked By</b>	KON/AOG	<b>Rev</b>	0
<b>Stage</b>	Planning	<b>Date</b>	AUGUST 2022
<b>Scale</b>	NOT TO SCALE	<b>Figure</b>	2.9

RECEIVED: 26/01/2023