


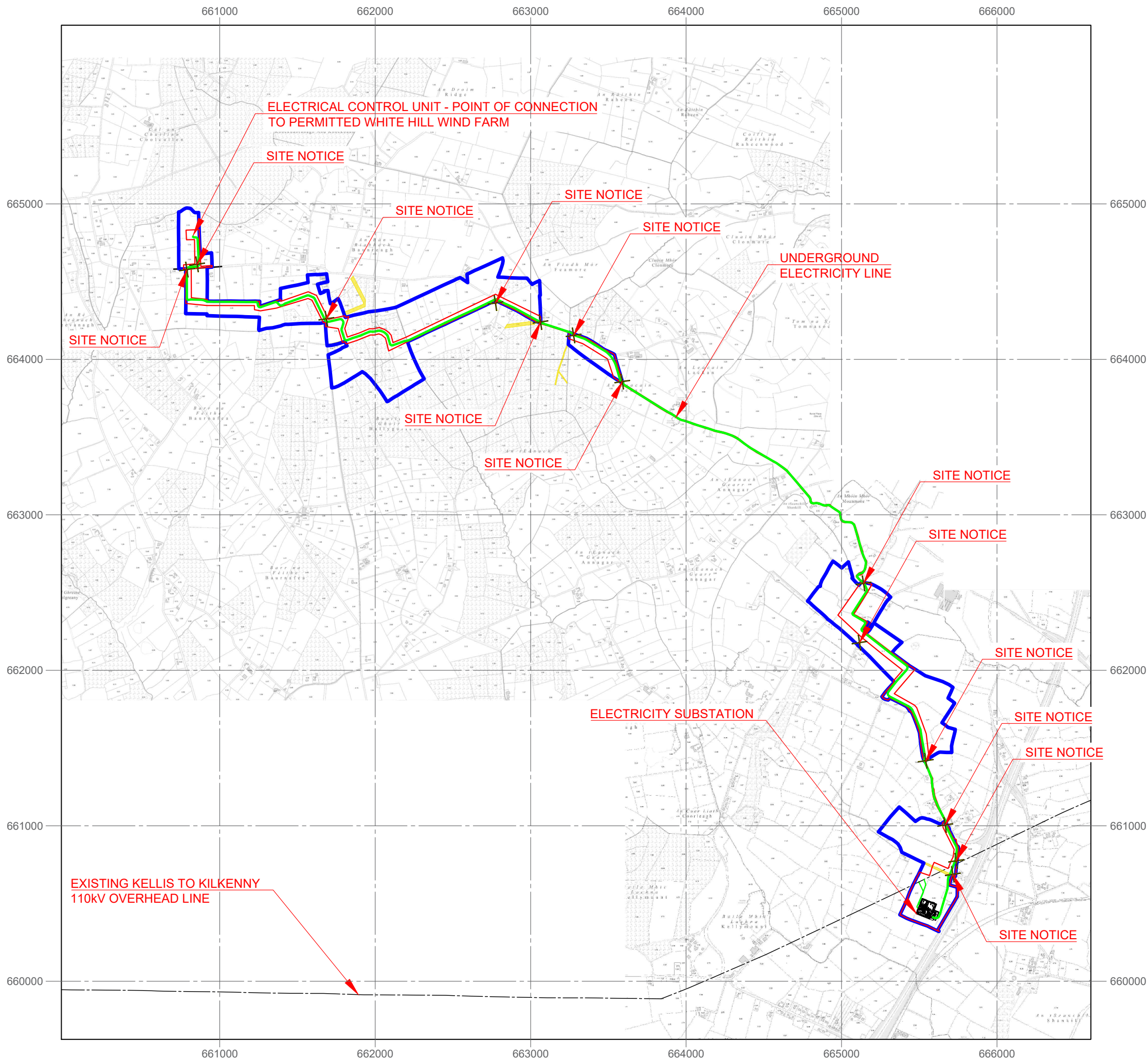
WHITE HILL WIND FARM ELECTRICITY SUBSTATION & ELECTRICITY LINE

PLANNING DRAWINGS

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- FIGURE 7.07: TYPICAL EIRGRID BUILDING PLAN / ELEVATIONS / SECTIONS

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Prepared By:			
<div><div></div><div><div>Galetech Energy Services</div><div>Clondargan, Stradone</div><div>Co. Cavan, H12 NV06</div><div>info@galetechenergyservices.com</div><div>www.galetechenergyservices.com</div></div></div>			
Client:			
WHITE HILL WIND LIMITED			
Job Title:			
White Hill Wind Farm Electricity Substation & Electricity Line			
Drawing Title:			
TABLE OF CONTENTS			
Drawing No.:		Stage:	
		PLANNING	
Scale:	Date:	Revision No.:	
	04/03/2025	REV 02	
Drawn By:	Checked By:	Confirmed By:	
EF	JB	SC	



LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- EXISTING WAYLEAVE
- SPOT HEIGHT

NOTES:

- ALL DIMENSIONS MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING.
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
- DIMENSIONS MAY IMMATERIALLY VARY DEPENDING ON SITE CONDITIONS.
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Client: **WHITE HILL WIND LIMITED**

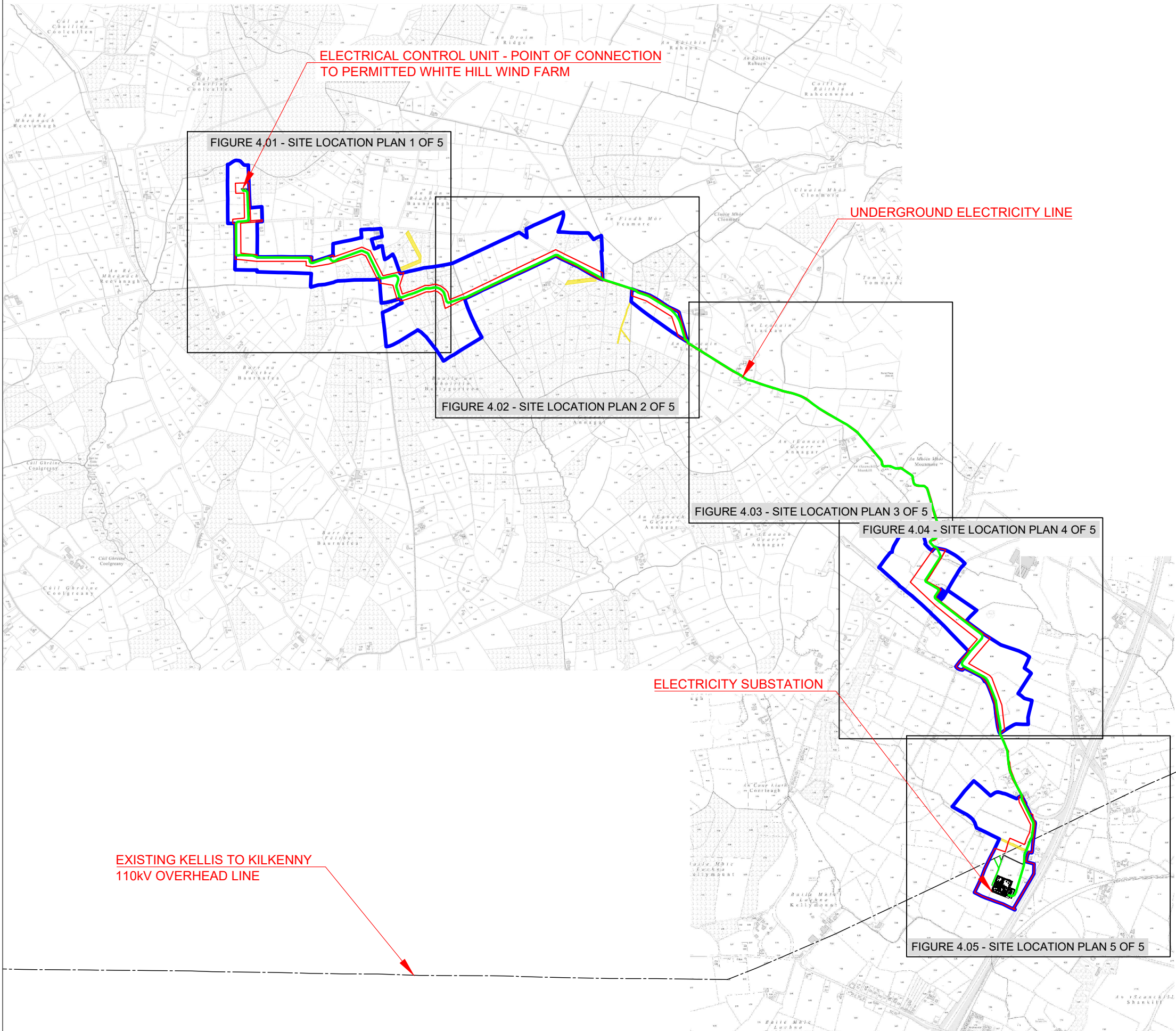
Job Title: **White Hill Wind Farm Electricity Substation & Electricity Line**

Drawing Title: **FIGURE 2.01: SITE LOCATION PLAN (1:25,000)**

Drawing No.:	Stage:
WHI001SS_PLAN_LOC-0.02	PLANNING

Scale:	Date:	Revision No.:
(A3) 1:25,000	04/03/2025	REV 02

Drawn By:	Checked By:	Confirmed By:
EF	JB	SC



LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- EXISTING OVERHEAD LINE
- EXISTING WAYLEAVE
- SPOT HEIGHT

NOTES:

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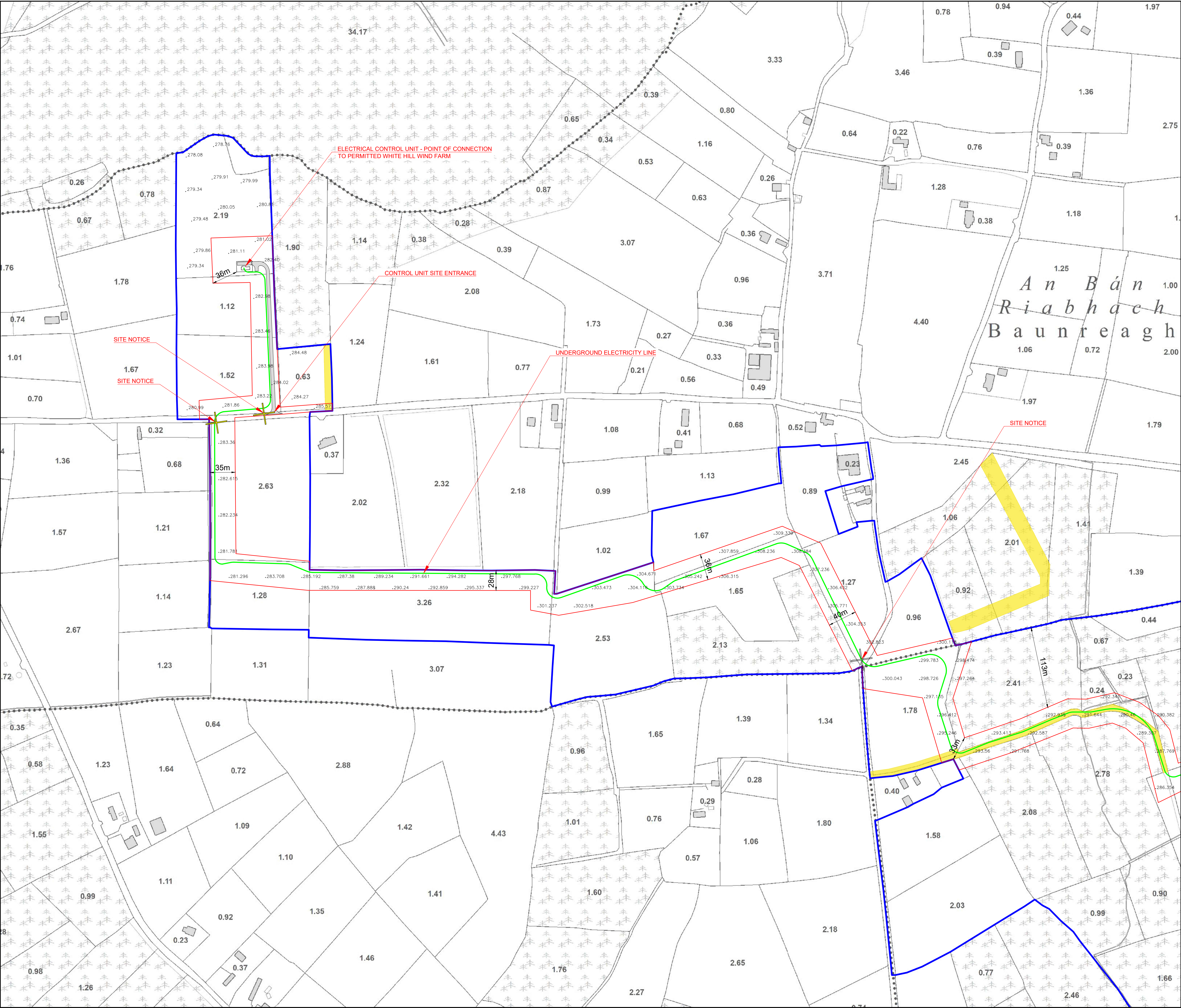
Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title:

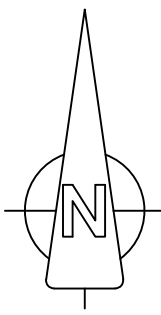
FIGURE 3.01: SITE LOCATION PLAN
DRAWING KEY

Drawing No.: WHI001SS_PLAN_LOC-0.03		Stage: PLANNING	
Scale: (A3) 1:25,000	Date: 04/03/2025	Revision No.: REV 02	
Drawn By: EF	Checked By: JB	Confirmed By: SC	



- LEGEND:**
- LANDOWNERSHIP BOUNDARY
 - PLANNING APPLICATION BOUNDARY
 - UNDERGROUND ELECTRICITY LINE
 - EXISTING WAYLEAVE
 - SECURITY PALISADE FENCE
 - ACCESS TRACKS
 - SPOT HEIGHT

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Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

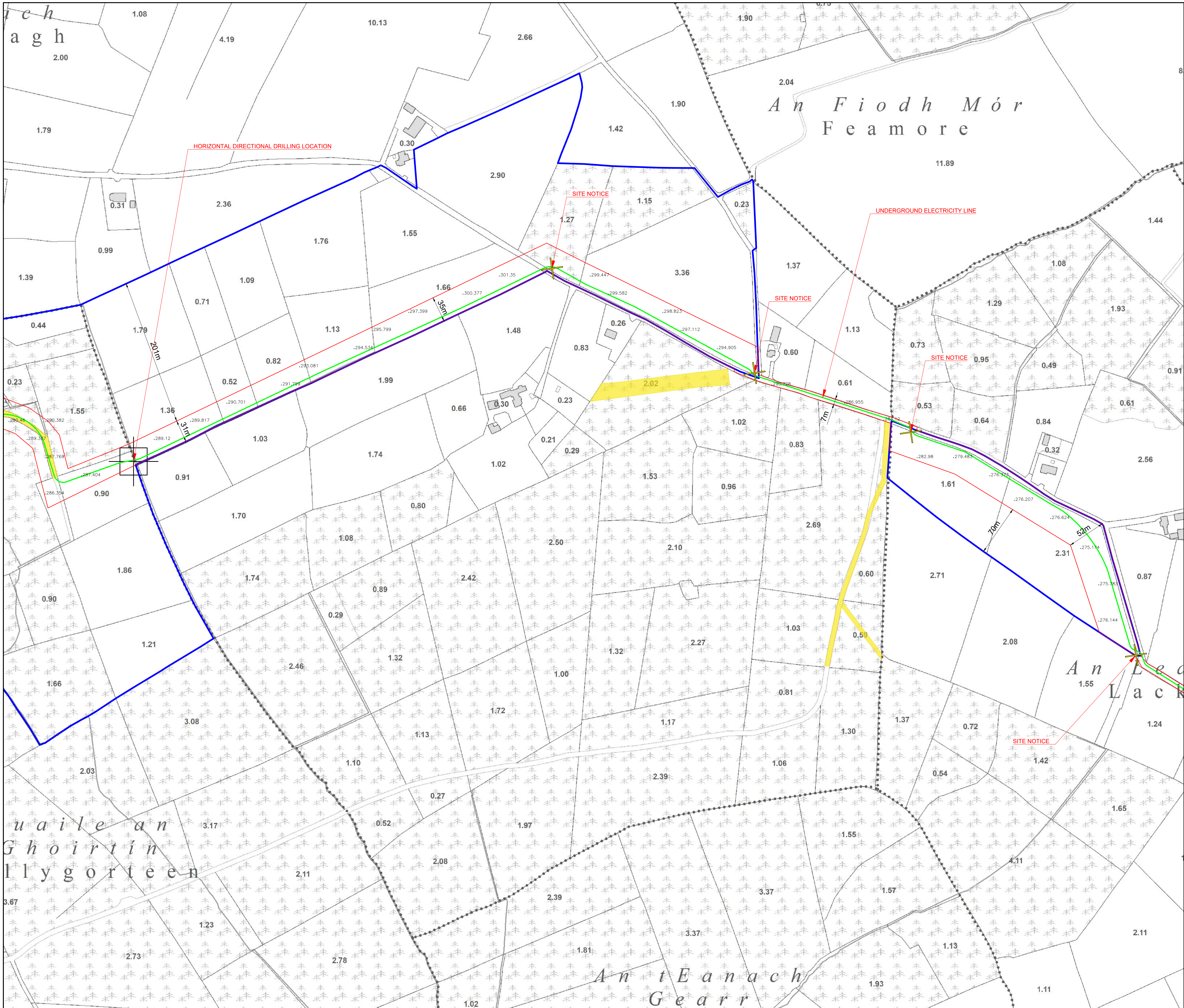
Drawing Title:

FIGURE 4.01: SITE LOCATION PLAN 1 OF 5
(1:2,500)

Drawing No. WHI001SS_PLAN_LOC-0.04	Stage. PLANNING
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Scale: (A1) 1:2500	Date: 04/03/2025	Revision No.: REV 02
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LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- EXISTING WAYLEAVE
- SPOT HEIGHT

- NOTES:**
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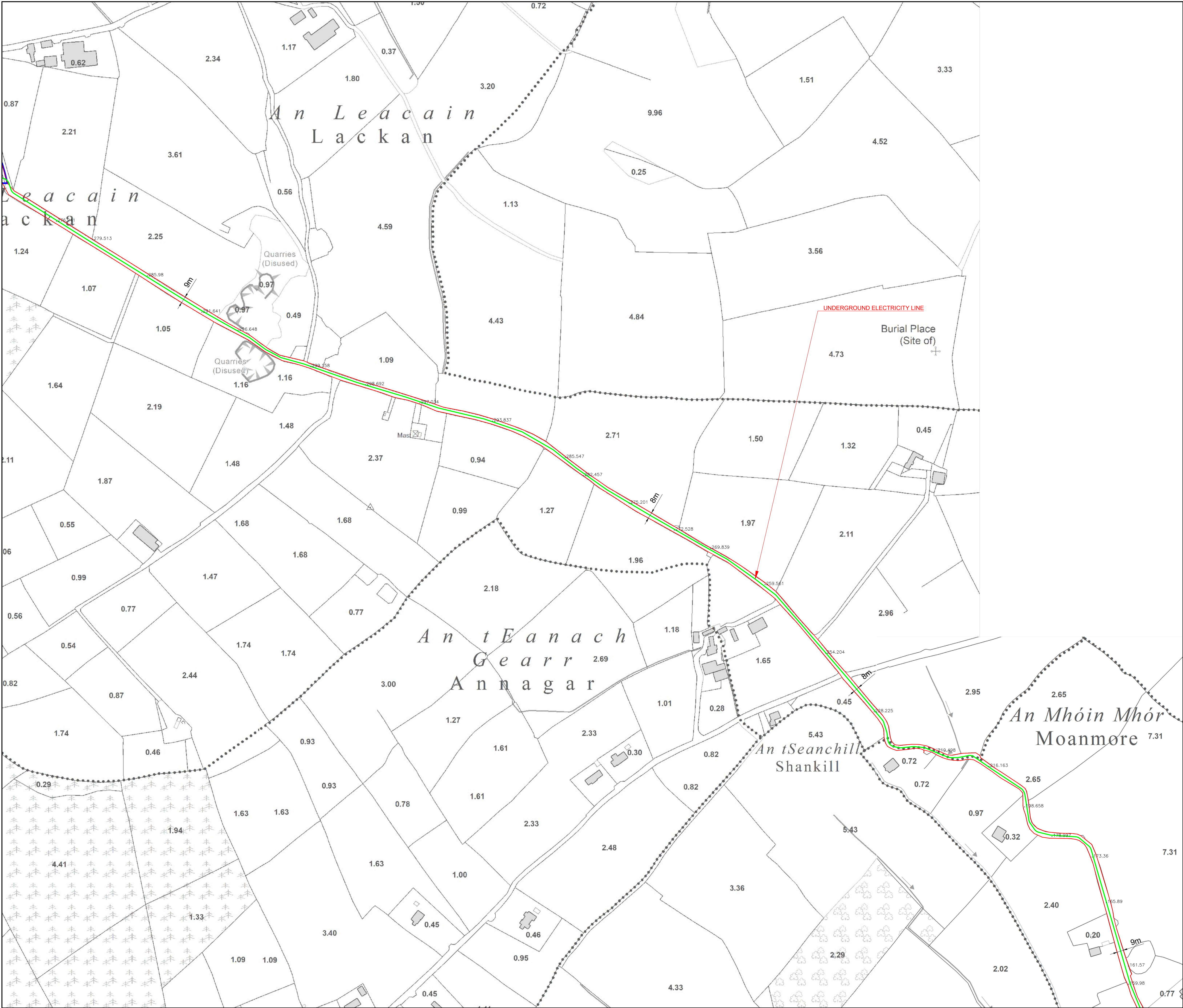
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Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

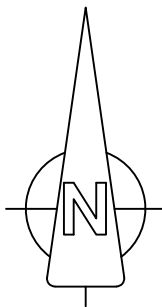
Drawing Title: FIGURE 4.02: SITE LOCATION PLAN 2 OF 5 (1:2,500)

Drawing No. WHI001SS_PLAN_LOC-0.05		Stage. PLANNING
Scale: (A1) 1:2500	Date: 04/03/2025	Revision No.: REV 02
Drawn By: EF	Checked By: JB	Confirmed By: SC



- LEGEND:
- LANDOWNERSHIP BOUNDARY
 - PLANNING APPLICATION BOUNDARY
 - UNDERGROUND ELECTRICITY LINE
 - EXISTING WAYLEAVE
 - SPOT HEIGHT

- NOTES:
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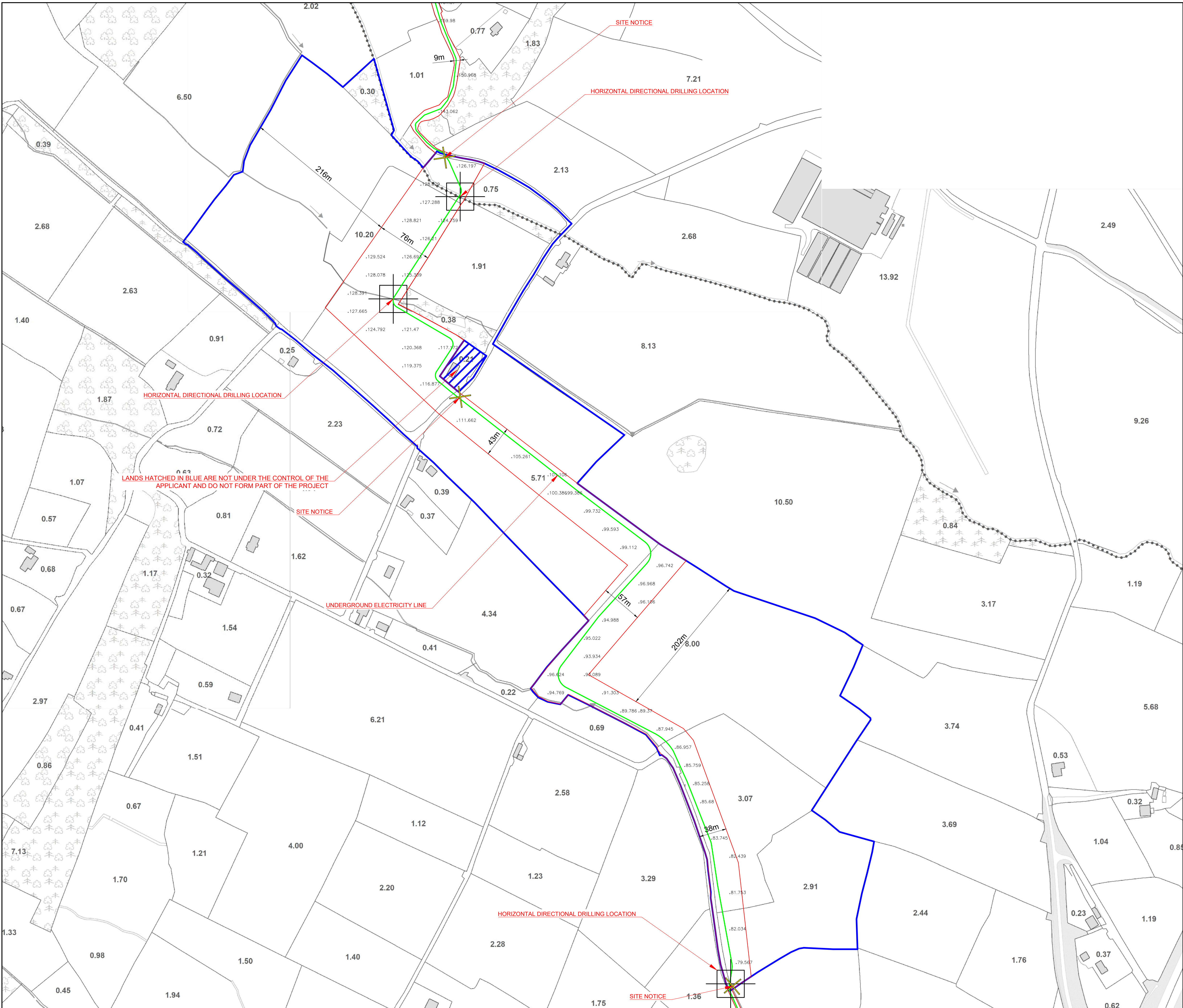
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Client:	WHITE HILL WIND LIMITED		
Job Title:	White Hill Wind Farm Electricity Substation & Electricity Line		
Drawing Title:	FIGURE 4.03: SITE LOCATION PLAN 3 OF 5 (1:2,500)		

Drawing No.	WHI001SS_PLAN_LOC-0.06		Stage.	PLANNING	
Scale:	(A1) 1:2500		Date:	04/03/2025	
Drawn By:	EF		Checked By:	JB	
			Confirmed By:	SC	
			Revision No.:	REV 02	



LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- EXISTING WAYLEAVE
- SPOT HEIGHT

NOTES:

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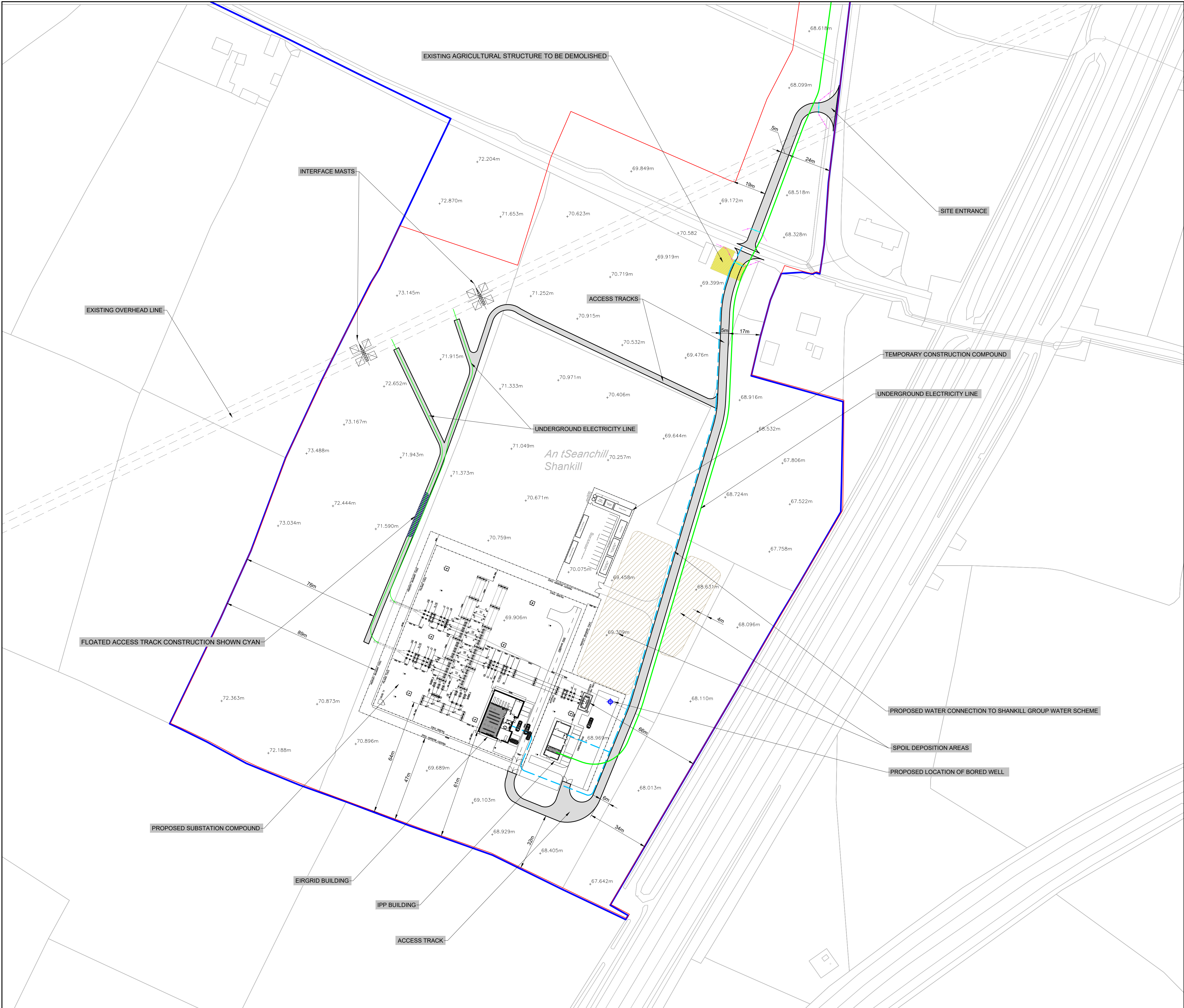
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Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title: FIGURE 4.04: SITE LOCATION PLAN 4 OF 5 (1:2,500)

Drawing No.	Stage.	
WHI001SS_PLAN_LOC-0.07	PLANNING	
Scale:	Date:	Revision No.:
(A1) 1:2500	04/03/2025	REV 02
Drawn By:	Checked By:	Confirmed By:
EF	JB	SC



LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- PROPOSED WATER CONNECTION
- SECURITY PALISADE FENCE
- STOCK-PROOF FENCING
- ACCESS GATES
- FLOATED ACCESS TRACK
- ACCESS TRACKS
- SOIL DEPOSITION AREAS
- SPOT HEIGHT
- PROPOSED BORED WELL

- NOTES:**
- ALL DIMENSIONS MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING.
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North arrow pointing North.

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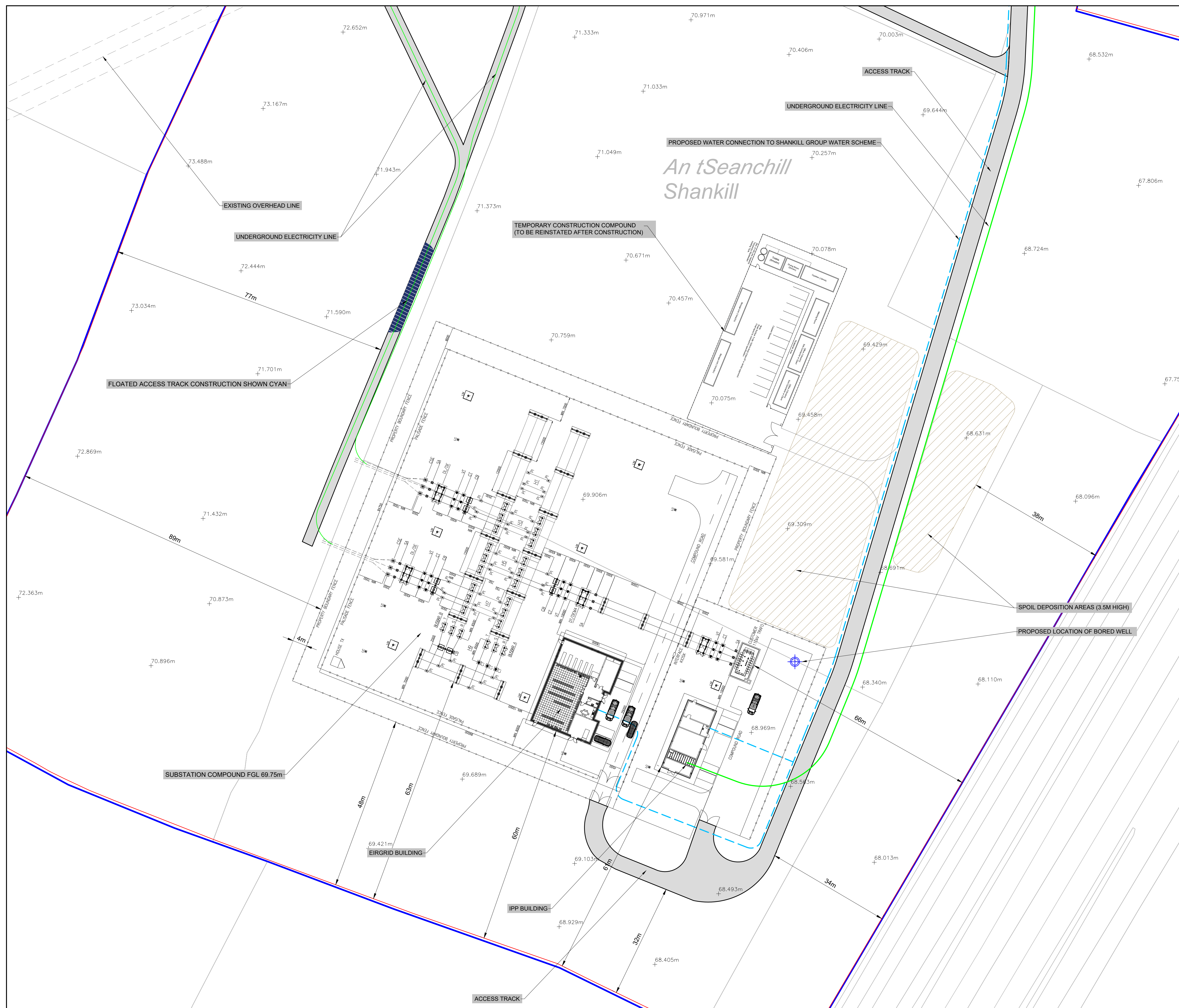
Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line









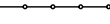



Drawing Title:

FIGURE 5.01: SITE LAYOUT PLAN

Drawing No. WHI001SS_PLAN_LAY-0.01		Stage. PLANNING	
Scale: (A1) 1:1000	Date: 04/03/2025	Revision No.: REV 02	
Drawn By: EF	Checked By: JB	Confirmed By: SC	

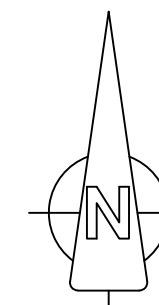


LEGEND:

- | | |
|---|------------------------------------|
|  | LANDOWNERSHIP BOUNDARY |
|  | PLANNING APPLICATION BOUNDARY |
|  | UNDERGROUND ELECTRICITY CABLE LINE |
|  | PROPOSED WATER CONNECTION |
|  | SECURITY PALISADE FENCE |
|  | STOCK-PROOF FENCING |
|  | ACCESS GATES |
|  | FLOATED ACCESS TRACK |
|  | ACCESS TRACKS |
|  | SOIL DEPOSITION AREAS |
|  | SPOT HEIGHT |
|  | PROPOSED BORED WELL |

NOTES:

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Client:

WHITE HILL WIND LIMITED

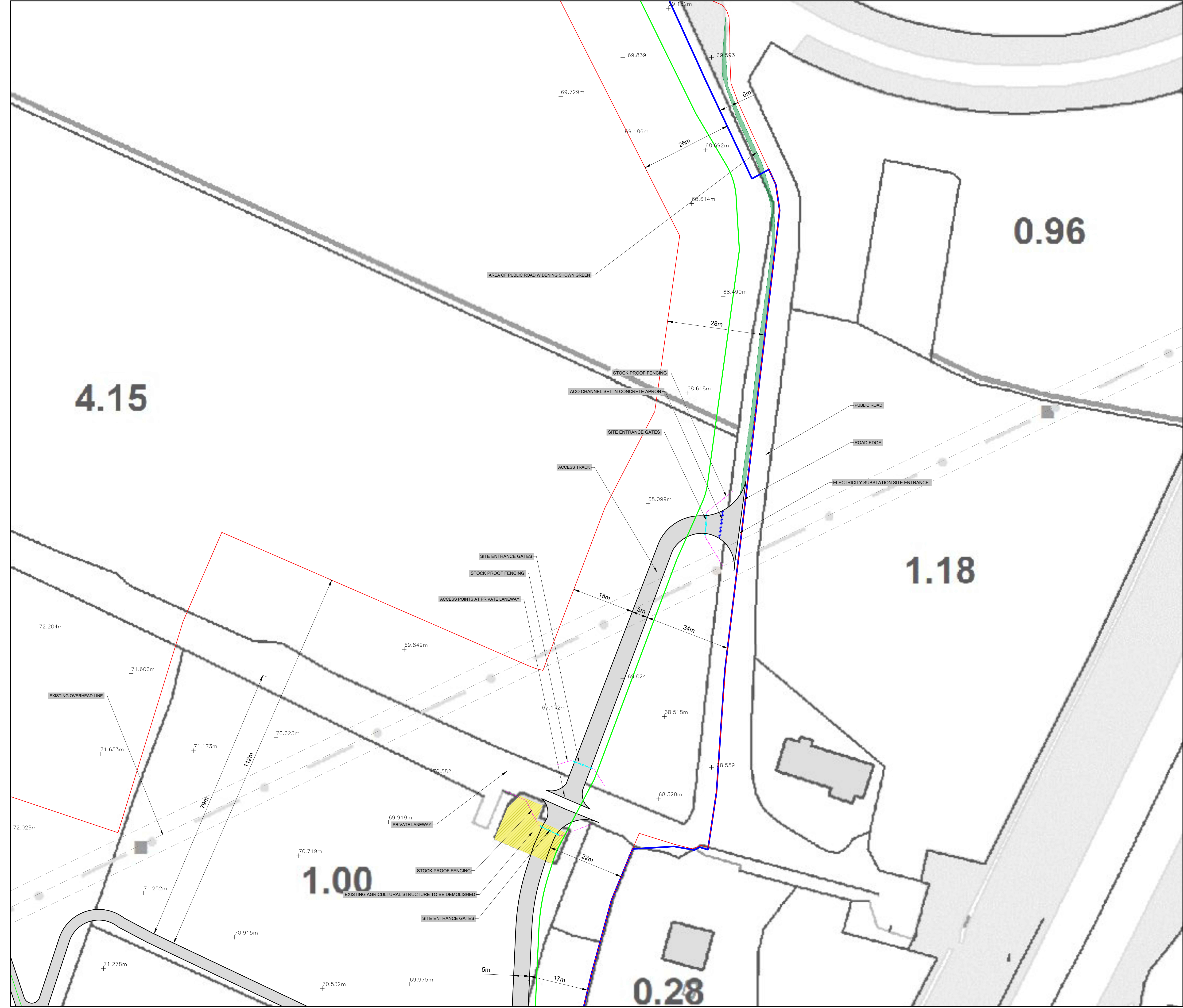
Job Title:

White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title:

FIGURE 5.02: ELECTRICITY SUBSTATION LAYOUT PLAN (1:500)

<u>Drawing No.</u> WHI001SS_PLAN_LAY-0.02		<u>Stage.</u> PLANNING	
<u>Scale:</u> (A1) 1:500	<u>Date:</u> 04/03/2025	<u>Revision No.:</u> REV 02	
<u>Drawn By:</u> EF	<u>Checked By:</u> JB	<u>Confirmed By:</u> SC	



LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- STOCK-PROOF FENCING
- ACCESS GATES
- ACO CHANNEL
- ACCESS TRACKS
- SPOT HEIGHT

NOTES:

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Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title: FIGURE 5.03: ELECTRICITY SUBSTATION ENTRANCE (1:500)

Drawing No.	Stage.
WHI001SS_PLAN_LAY-0.03	PLANNING

Scale:	Date:	Revision No.:
(A1) 1:500	04/03/2025	REV 02

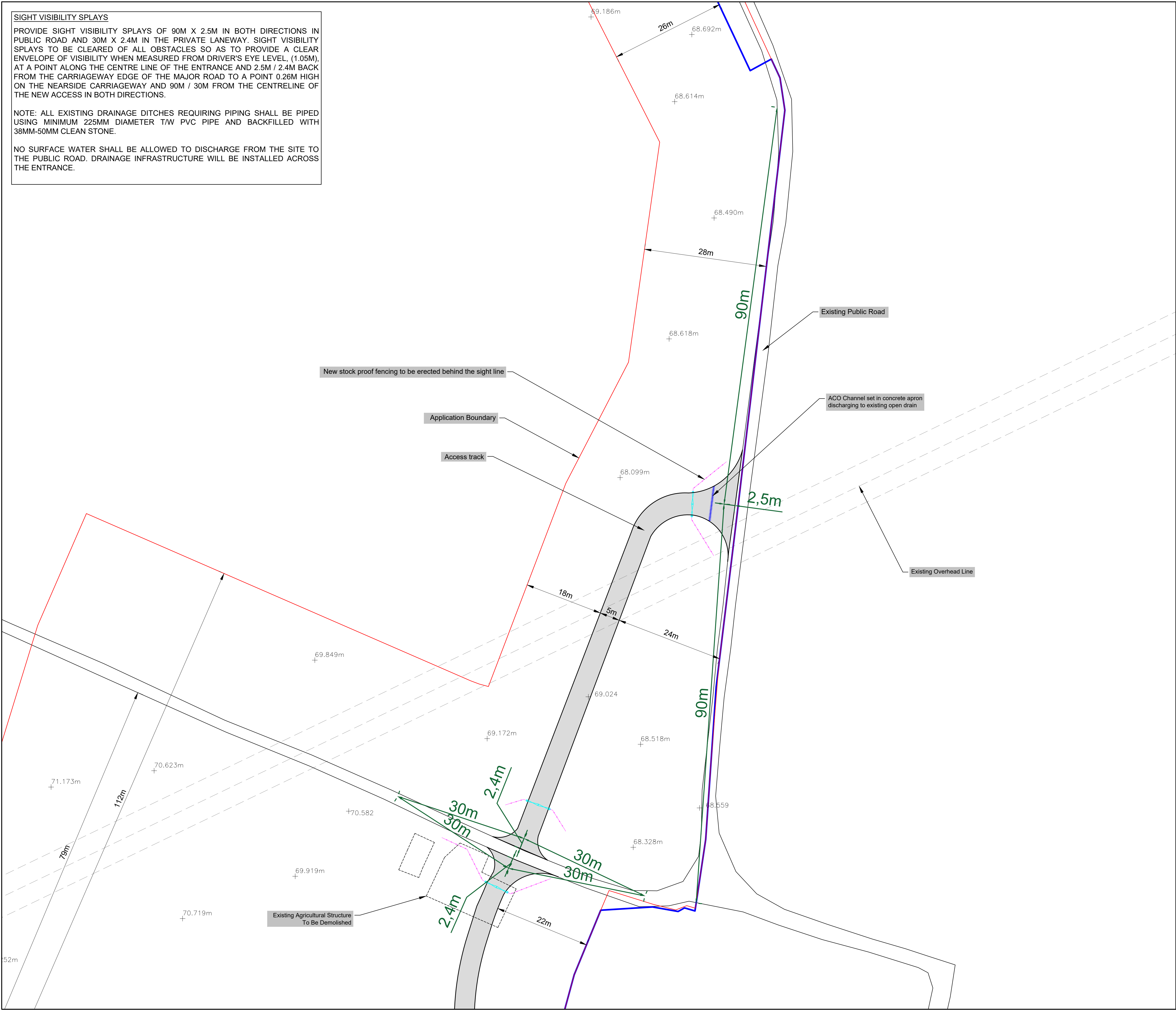
Drawn By:	Checked By:	Confirmed By:
EF	JB	SC

SIGHT VISIBILITY SPLAYS

PROVIDE SIGHT VISIBILITY SPLAYS OF 90M X 2.5M IN BOTH DIRECTIONS IN PUBLIC ROAD AND 30M X 2.4M IN THE PRIVATE LANEWAY. SIGHT VISIBILITY SPLAYS TO BE CLEARED OF ALL OBSTACLES SO AS TO PROVIDE A CLEAR ENVELOPE OF VISIBILITY WHEN MEASURED FROM DRIVER'S EYE LEVEL, (1.05M), AT A POINT ALONG THE CENTRE LINE OF THE ENTRANCE AND 2.5M / 2.4M BACK FROM THE CARRIAGEWAY EDGE OF THE MAJOR ROAD TO A POINT 0.26M HIGH ON THE NEAR SIDE CARRIAGEWAY AND 90M / 30M FROM THE CENTRELINE OF THE NEW ACCESS IN BOTH DIRECTIONS.

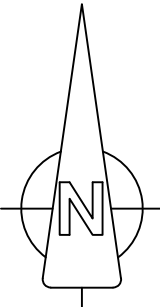
NOTE: ALL EXISTING DRAINAGE DITCHES REQUIRING PIPING SHALL BE PIPED USING MINIMUM 225MM DIAMETER T/W PVC PIPE AND BACKFILLED WITH 38MM-50MM CLEAN STONE.

NO SURFACE WATER SHALL BE ALLOWED TO DISCHARGE FROM THE SITE TO THE PUBLIC ROAD. DRAINAGE INFRASTRUCTURE WILL BE INSTALLED ACROSS THE ENTRANCE.



- LEGEND:**
- LANDOWNERSHIP BOUNDARY
 - PLANNING APPLICATION BOUNDARY
 - STOCK-PROOF FENCING
 - ACCESS GATES
 - ACO CHANNEL
 - ACCESS TRACKS
 - SPOT HEIGHT
 - VISIBILITY SPLAYS

- NOTES:**
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 - DIMENSIONS MAY VARY DEPENDING ON SITE CONDITIONS.



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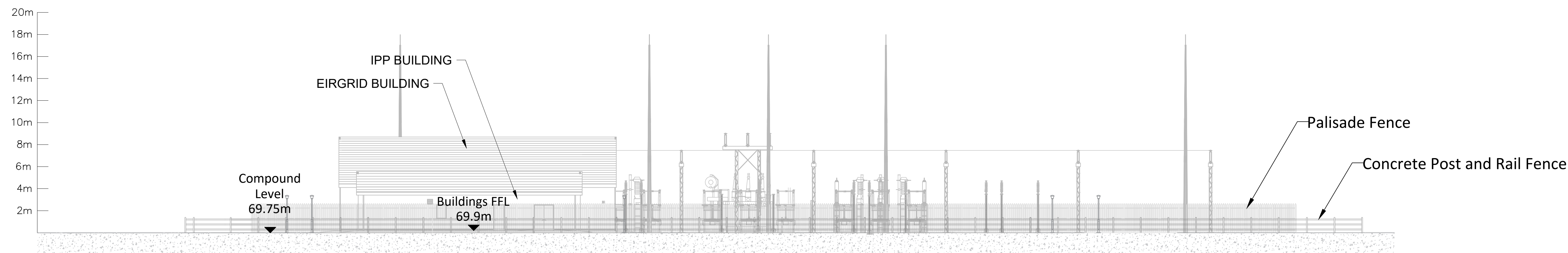
Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

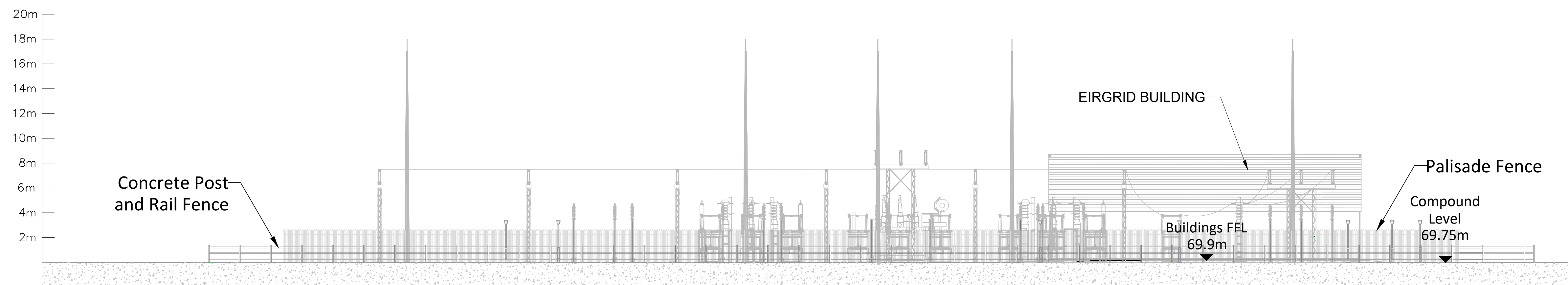
Drawing Title: FIGURE 5.04: ELECTRICITY SUBSTATION ENTRANCE DETAIL (1:400)

Drawing No. WHI001SS_PLAN_LAY-0.04		Stage. PLANNING	
Scale: (A1) 1:400	Date: 04/03/2025	Revision No.: REV 02	
Drawn By: EF	Checked By: JB	Confirmed By: SC	

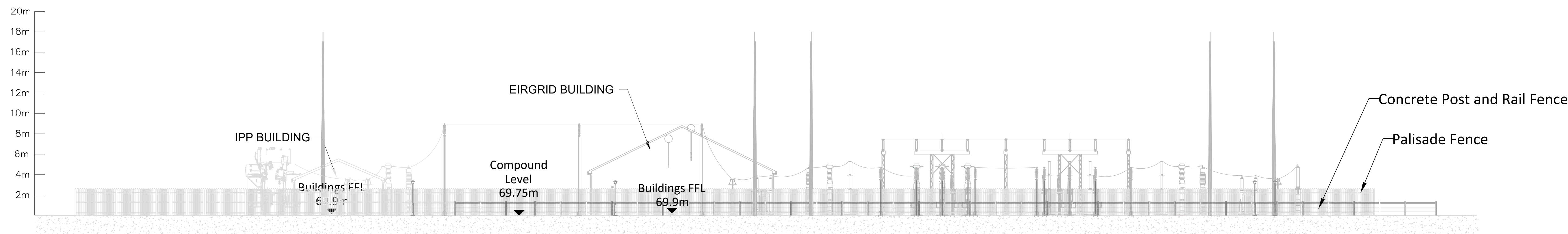
PLEASE NOTE THAT THE COMPONENTS ILLUSTRATED ON THIS DRAWING ARE INDICATIVE ONLY. THE PRECISE SPECIFICATION AND DETAIL WILL BE DETERMINED FROM THE ELECTRICAL EQUIPMENT SUPPLIER, ESB FUNCTIONAL SPECIFICATION AND EIRGRID FUNCTIONAL SPECIFICATION



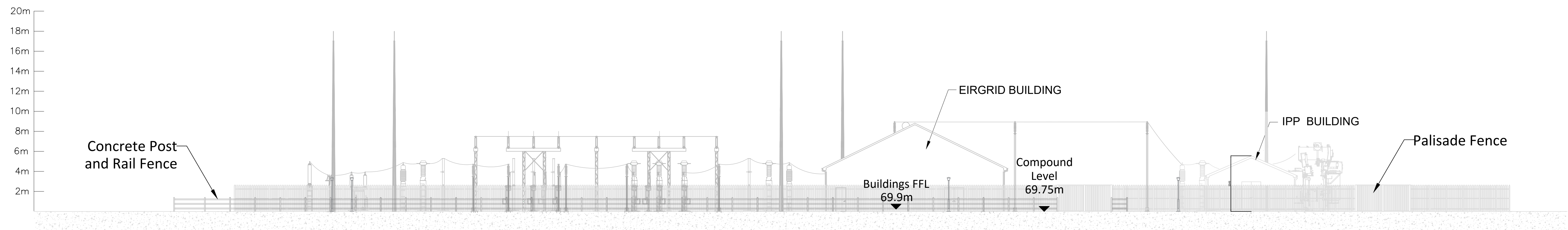
ELEVATION A



ELEVATION B



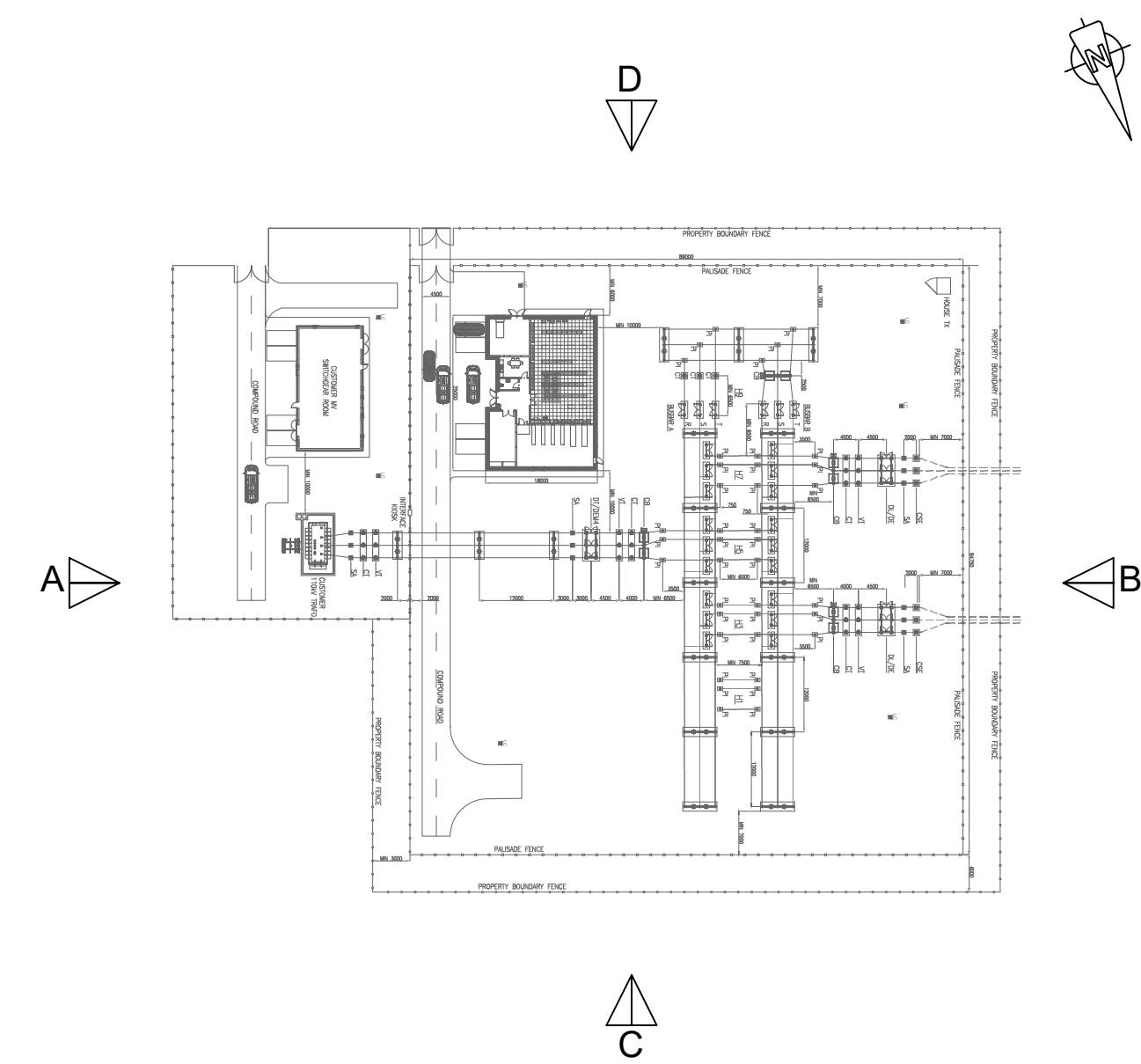
ELEVATION C



ELEVATION D

Notes:

1. All dimensions must be checked on site and not scaled from this drawing.
2. All dimensions in millimetres unless otherwise stated.
3. Dimensions may vary depending on site conditions.



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Client:
WHITE HILL WIND LIMITED

Job Title:
White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title:
**FIGURE 5.05: TYPICAL SUBSTATION
COMPOUND ELEVATIONS (1:500)**

Drawing No. WHI001SS_PLAN_LAY-0.05		Stage. PLANNING	
Scale: (A0) 1:200	Date: 08/01/2025	Revision No.: REV 00	
Drawn By: EF	Checked By: JB	Confirmed By: SC	



LEGEND:

- LANDOWNERSHIP BOUNDARY
- PLANNING APPLICATION BOUNDARY
- UNDERGROUND ELECTRICITY LINE
- SECURITY PALISADE FENCE
- STOCK-PROOF FENCING
- ACCESS GATES
- ACO CHANNEL
- ACCESS TRACKS
- SPOT HEIGHT


NOTES:

- ALL DIMENSIONS MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING.
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
- DIMENSIONS MAY VARY DEPENDING ON SITE CONDITIONS.

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Prepared By:



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Client: WHITE HILL WIND LIMITED

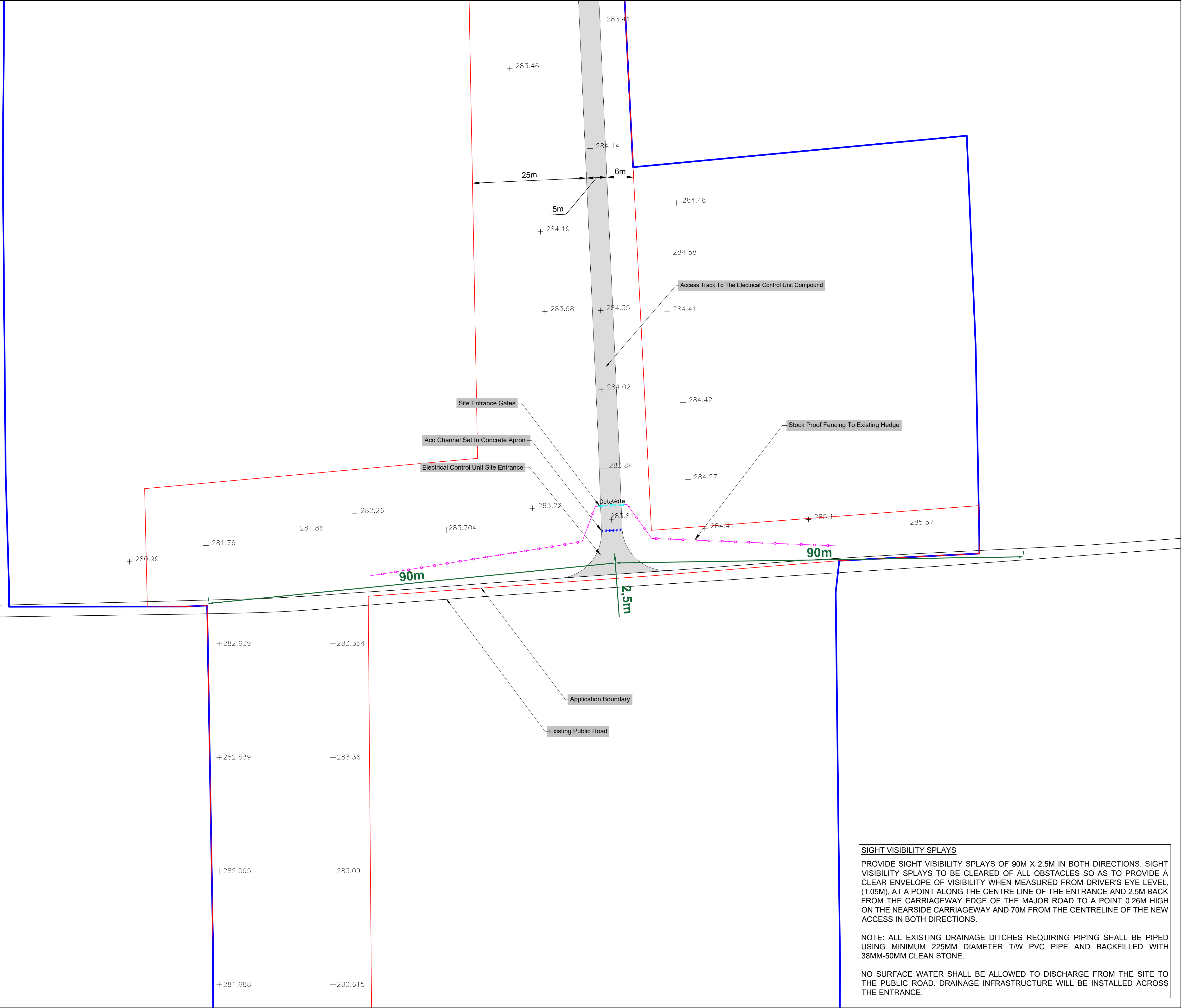
Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title: FIGURE 6.01: ELECTRICAL CONTROL UNIT COMPOUND LAYOUT

Drawing No.	Stage.
WHI001SS_PLAN_LAY-0.06	PLANNING

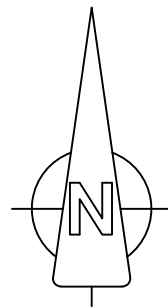
Scale:	Date:	Revision No.:
(A1) 1:500	04/03/2025	REV 02

Drawn By:	Checked By:	Confirmed By:
EF	JB	SC



- LEGEND:
- LANDOWNERSHIP BOUNDARY
 - PLANNING APPLICATION BOUNDARY
 - STOCK-PROOF FENCING
 - ACCESS GATES
 - ACO CHANNEL
 - ACCESS TRACKS
 - SPOT HEIGHT
 - VISIBILITY SPLAYS

- NOTES:
- ALL DIMENSIONS MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING.
 - ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
 - DIMENSIONS MAY VARY DEPENDING ON SITE CONDITIONS.



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Date:	Rev.	Description:	Drawn By:
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Prepared By:



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Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title: FIGURE 6.02: ELECTRICAL CONTROL UNIT ENTRANCE DETAIL

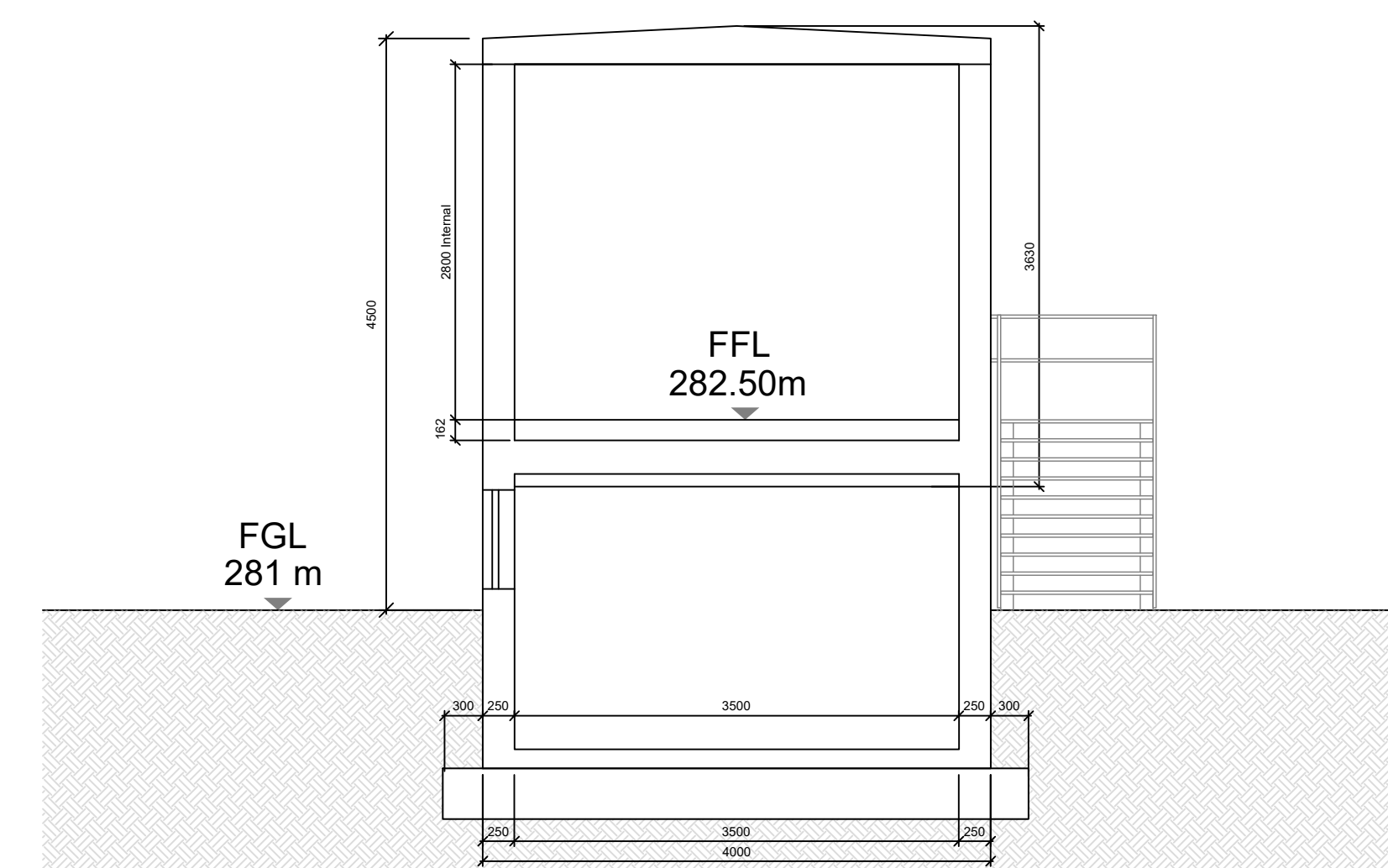
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Scale:	Date:	Revision No.:	
(A1) 1:400	04/03/2025	REV 02	
Drawn By:	Checked By:	Confirmed By:	
EF	JB	SC	

SIGHT VISIBILITY SPLAYS

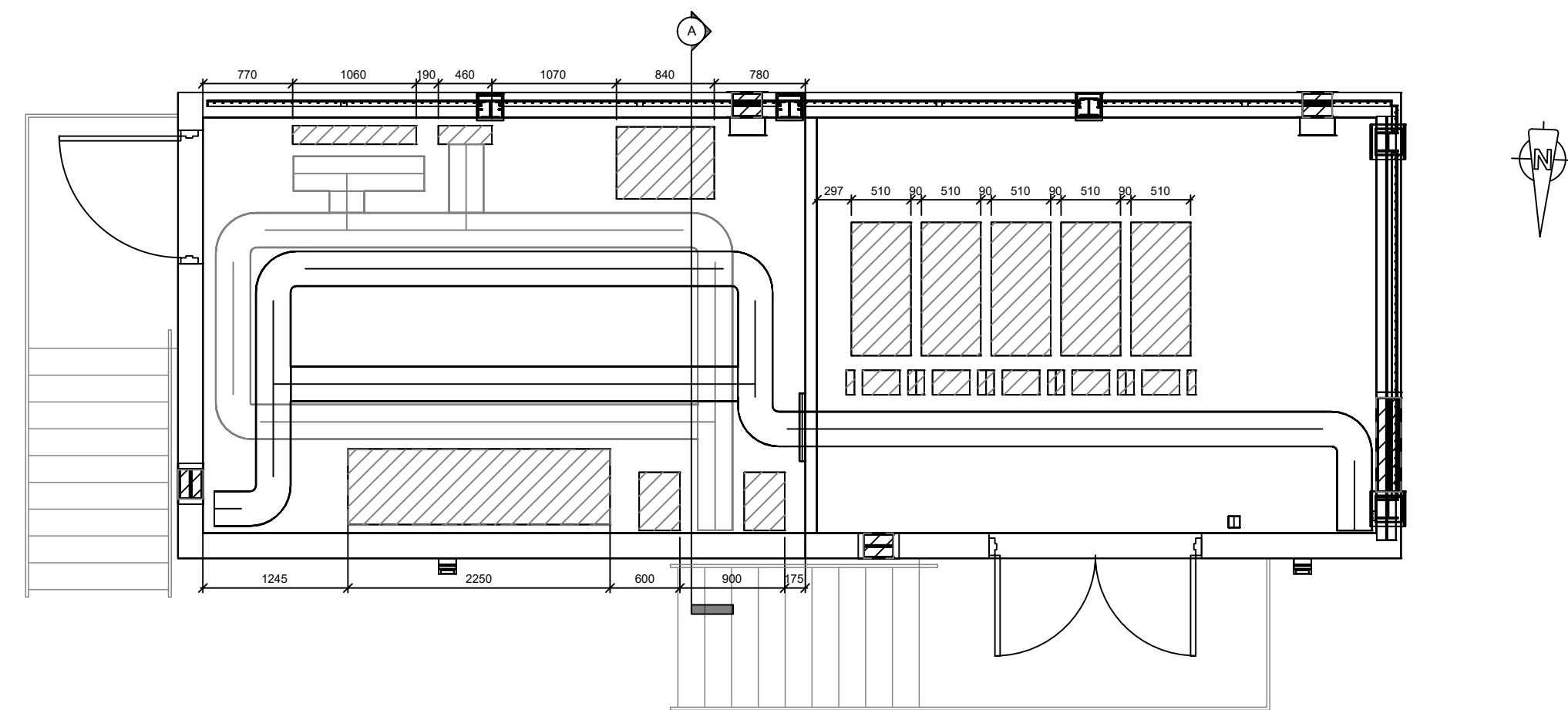
PROVIDE SIGHT VISIBILITY SPLAYS OF 90M X 2.5M IN BOTH DIRECTIONS. SIGHT VISIBILITY SPLAYS TO BE CLEARED OF ALL OBSTACLES SO AS TO PROVIDE A CLEAR ENVELOPE OF VISIBILITY WHEN MEASURED FROM DRIVER'S EYE LEVEL, (1.05M), AT A POINT ALONG THE CENTRE LINE OF THE ENTRANCE AND 2.5M BACK FROM THE CARRIAGEWAY EDGE OF THE MAJOR ROAD TO A POINT 0.26M HIGH ON THE NEAR SIDE CARRIAGEWAY AND 70M FROM THE CENTRELINE OF THE NEW ACCESS IN BOTH DIRECTIONS.

NOTE: ALL EXISTING DRAINAGE DITCHES REQUIRING PIPING SHALL BE PIPED USING MINIMUM 225MM DIAMETER T/W PVC PIPE AND BACKFILLED WITH 38MM-50MM CLEAN STONE.

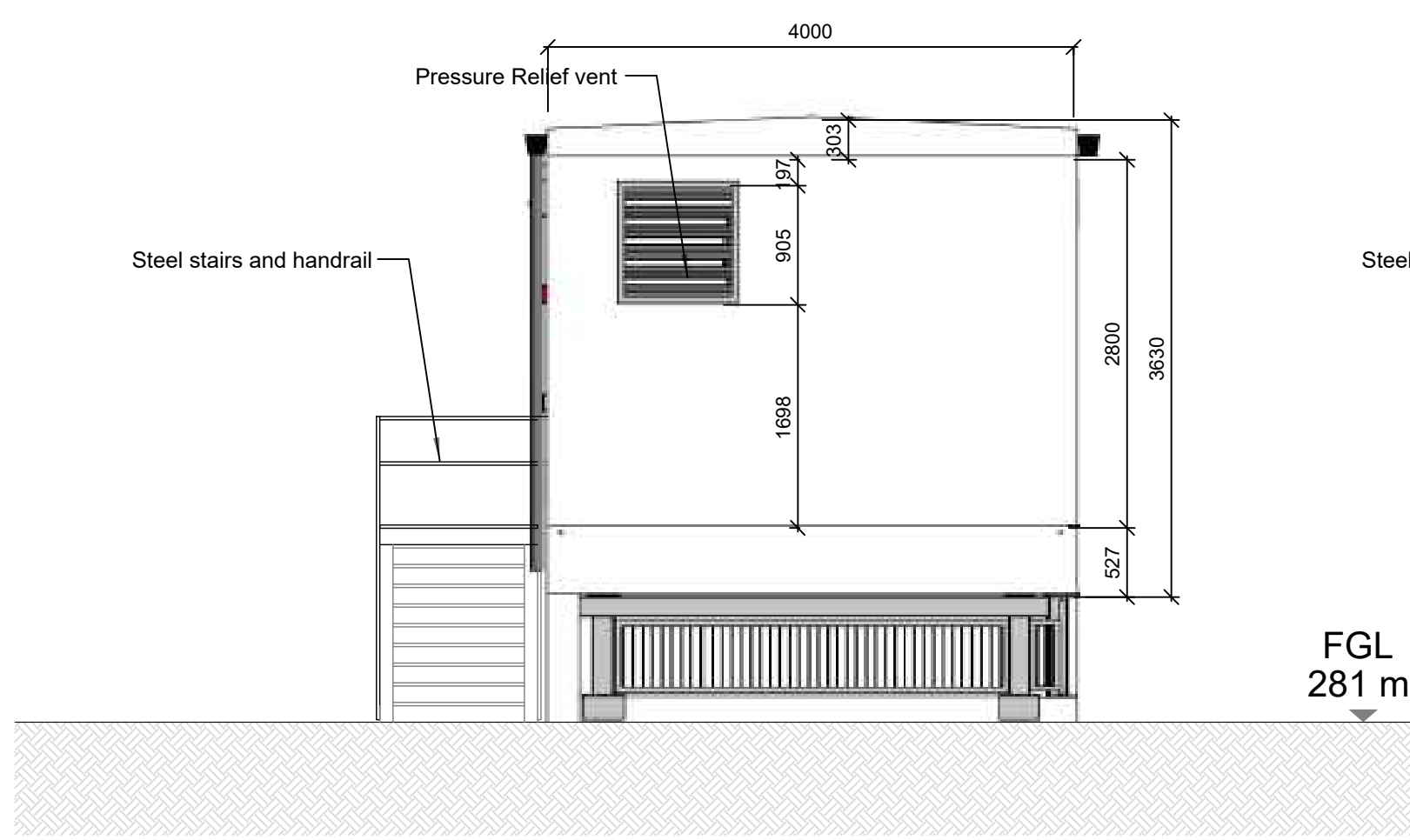
NO SURFACE WATER SHALL BE ALLOWED TO DISCHARGE FROM THE SITE TO THE PUBLIC ROAD. DRAINAGE INFRASTRUCTURE WILL BE INSTALLED ACROSS THE ENTRANCE.



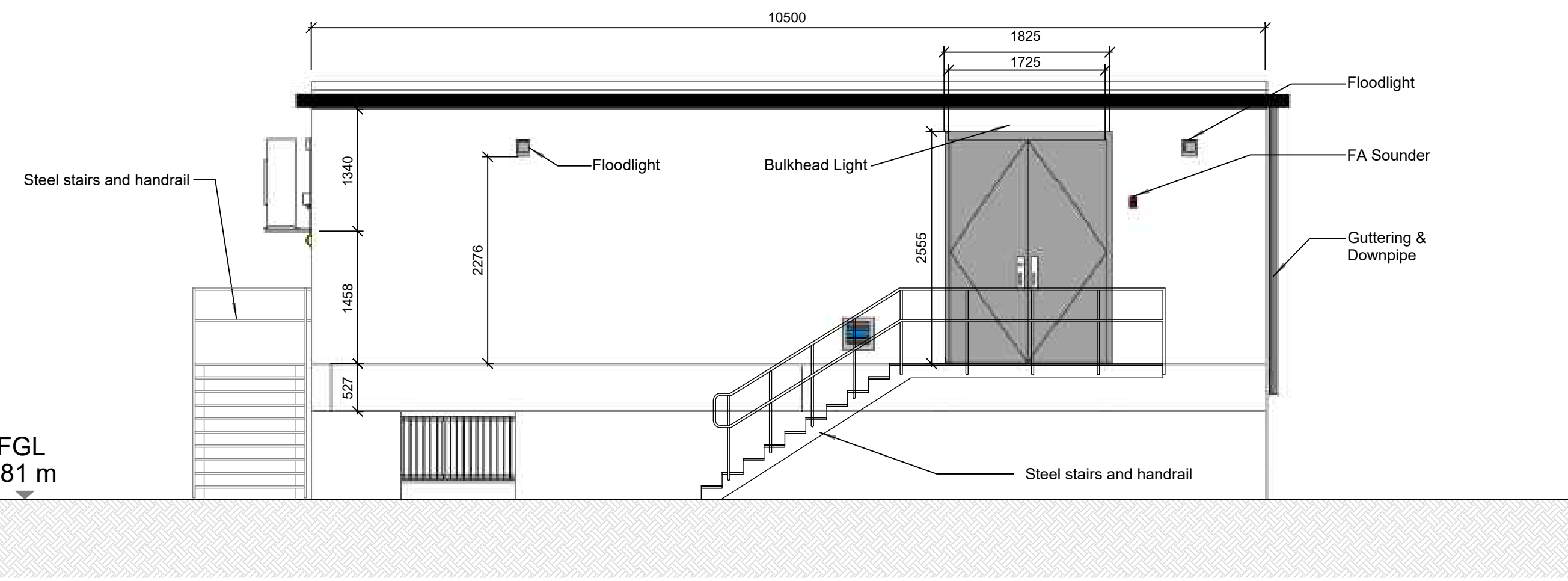
SECTION A-A
Scale 1:50



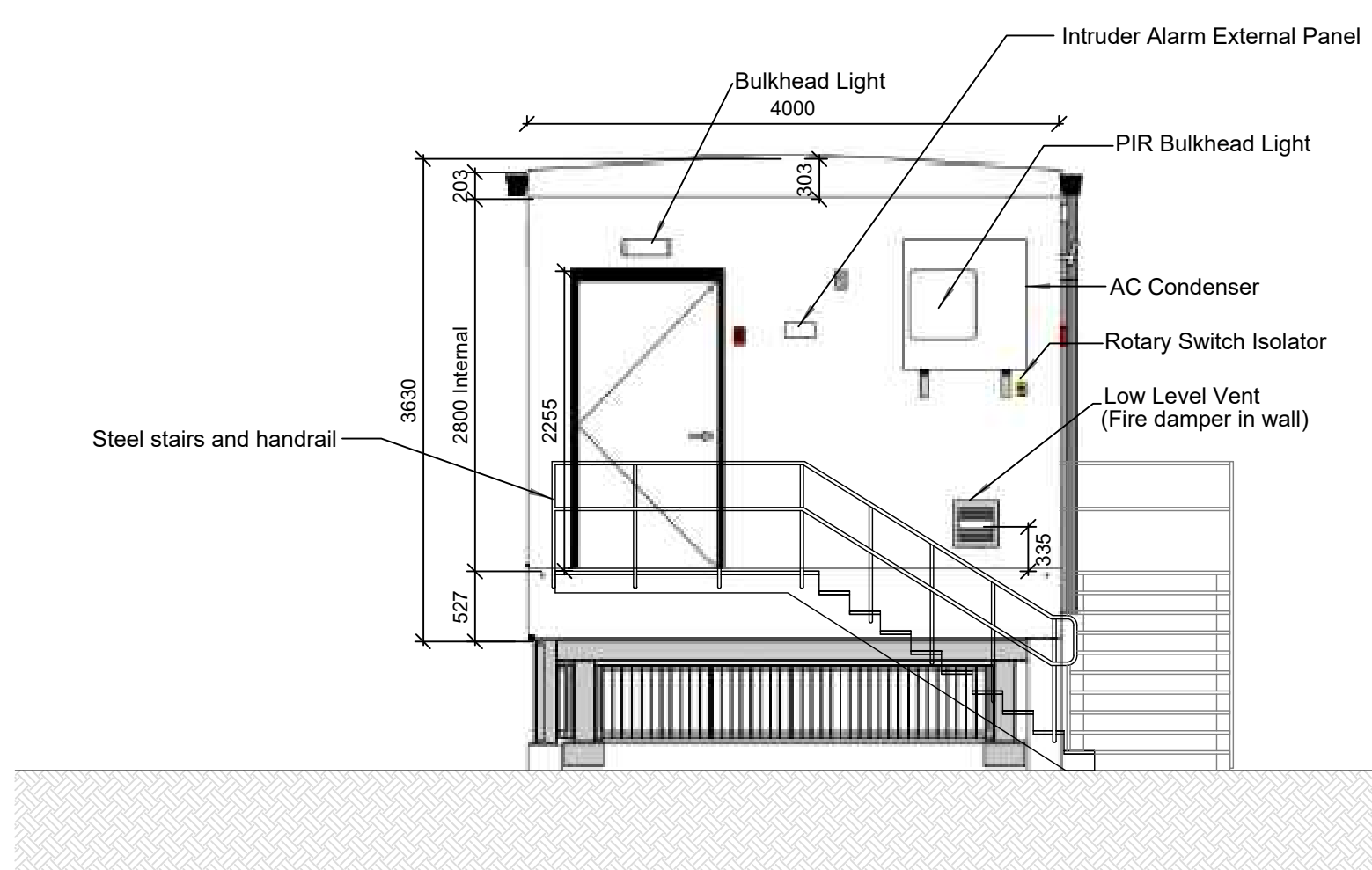
PLAN VIEW
Scale 1:50



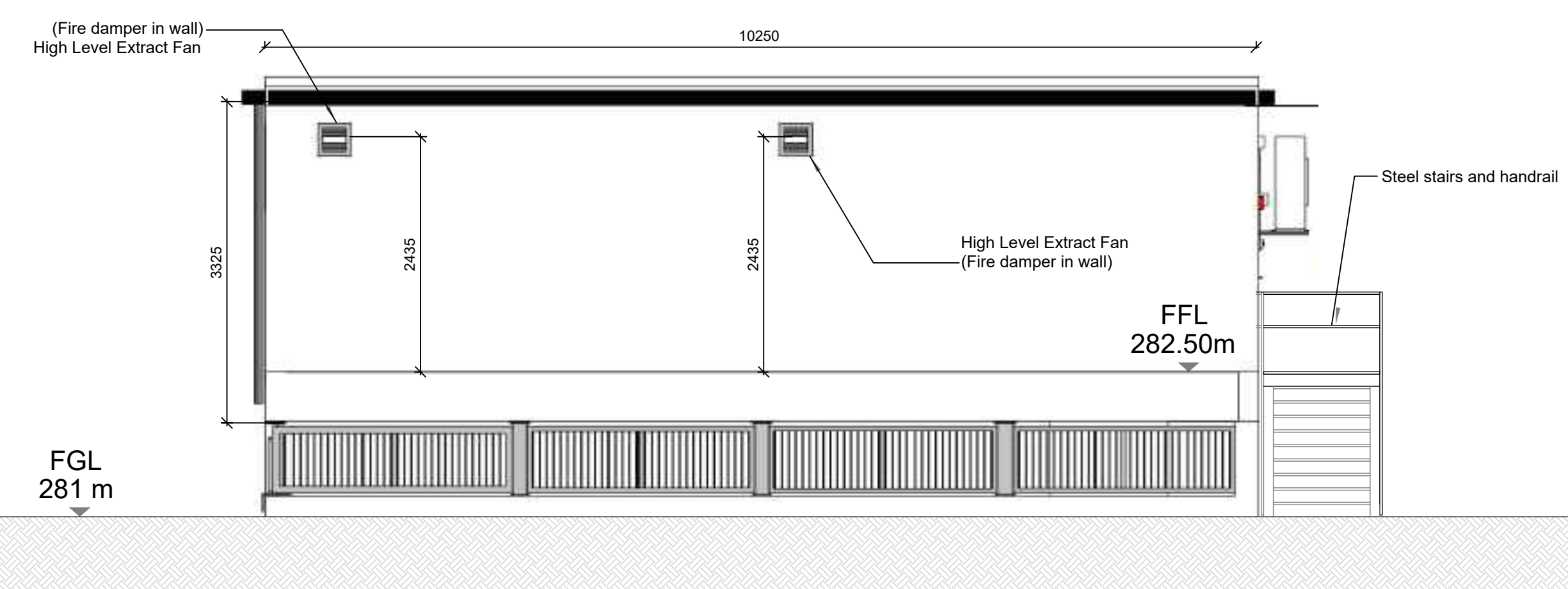
EAST ELEVATION
Scale 1:50



NORTH ELEVATION
Scale 1:50



EAST ELEVATION
Scale 1:50



SOUTH ELEVATION
Scale 1:50

- Notes:
1. All dimensions must be checked on site and not scaled from this drawing.
 2. All dimensions in millimetres unless otherwise stated.
 3. Dimensions may vary depending on site conditions.

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Prepared By:



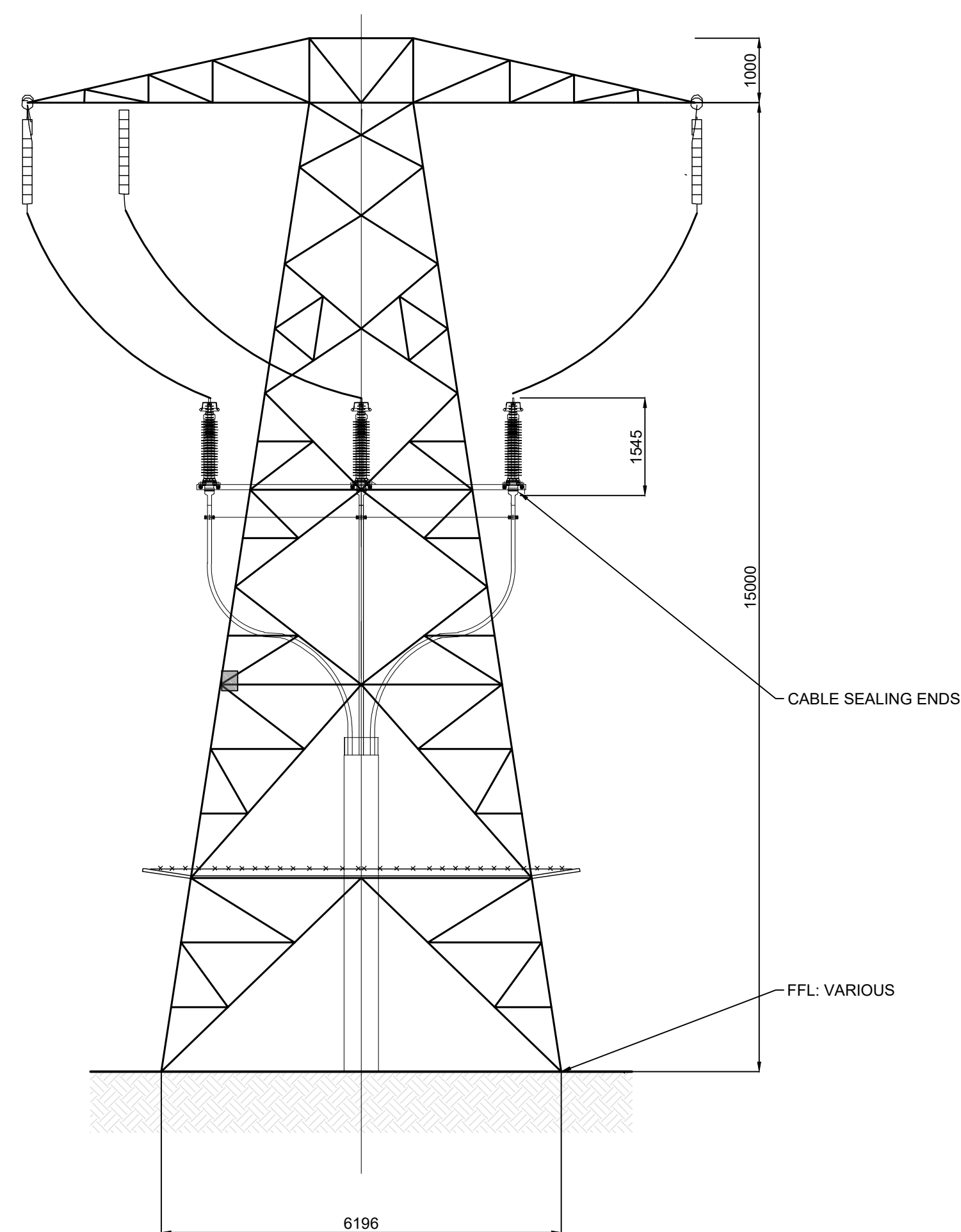
Galetech Energy Services
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Client: WHITE HILL WIND LIMITED

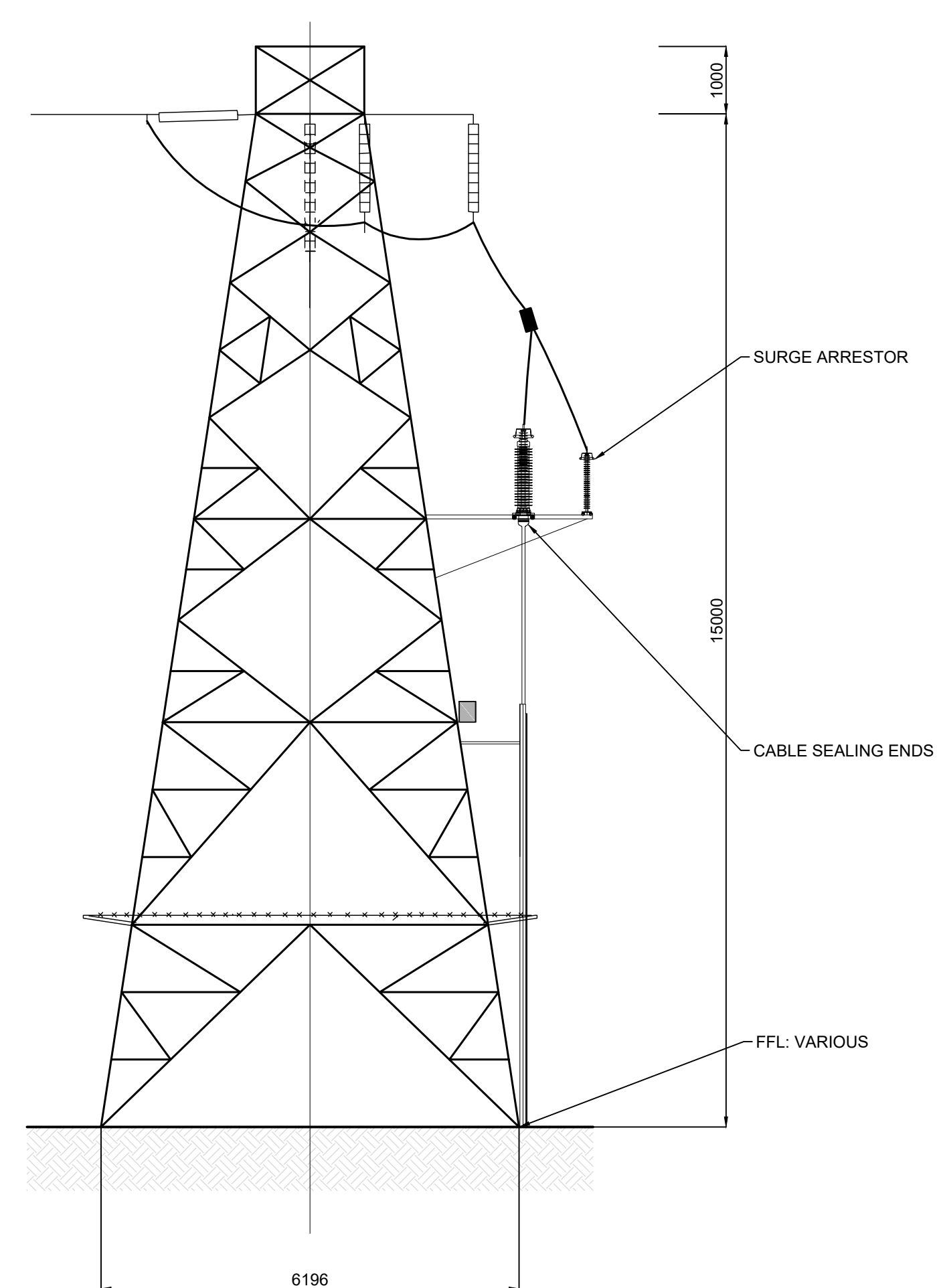
Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title: FIGURE 6.03: TYPICAL ELECTRICAL CONTROL UNIT PLAN / ELEVATIONS / SECTIONS

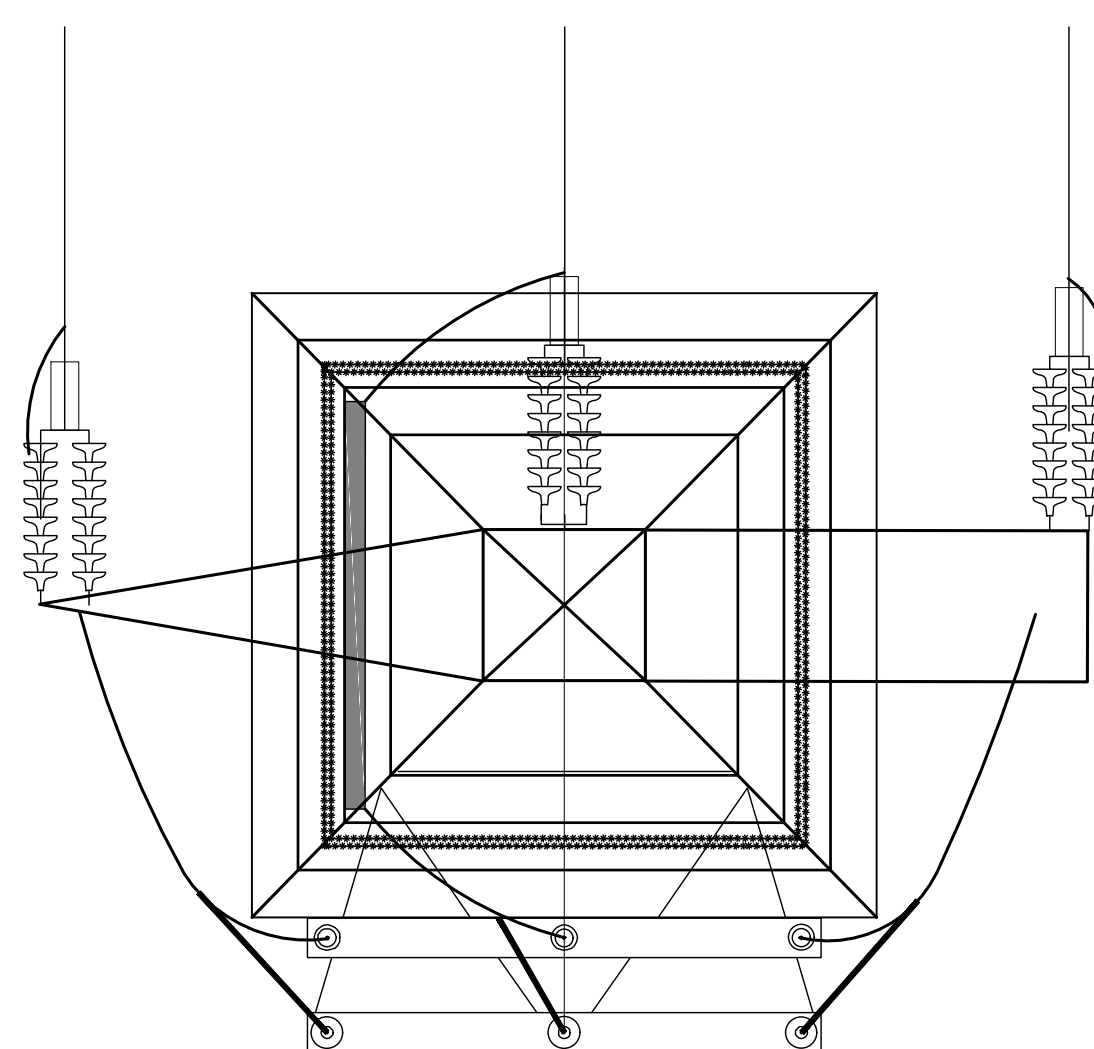
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<u>Drawn By:</u> EF	<u>Checked By:</u> JB	<u>Confirmed By:</u> SC



FRONT ELEVATION
Scale 1:75



SIDE ELEVATION
Scale 1:75



Notes:

1. All dimensions must be checked on site and not scaled from this drawing.
2. All dimensions in millimetres unless otherwise stated.
3. Dimensions may vary depending on site conditions.
4. Depending on the precise specifications of the interface masts to be installed, the overall maximum height may range between 15m and 18m.

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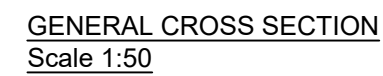
Job Title:

White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title:

FIGURE 7.01: TYPICAL INTERFACE MAST

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<u>Scale:</u> (A1) 1:75	<u>Date:</u> 08/01/2025	<u>Revision No.:</u> REV 00
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3. Dimensions may vary depending on site conditions.

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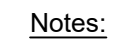
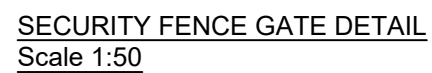
Job Title:

White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title:

FIGURE 7.02: TYPICAL ACCESS TRACK DETAIL

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<u>Scale:</u> (A3) 1:50	<u>Date:</u> 08/01/2025	<u>Revision No.:</u> REV 00
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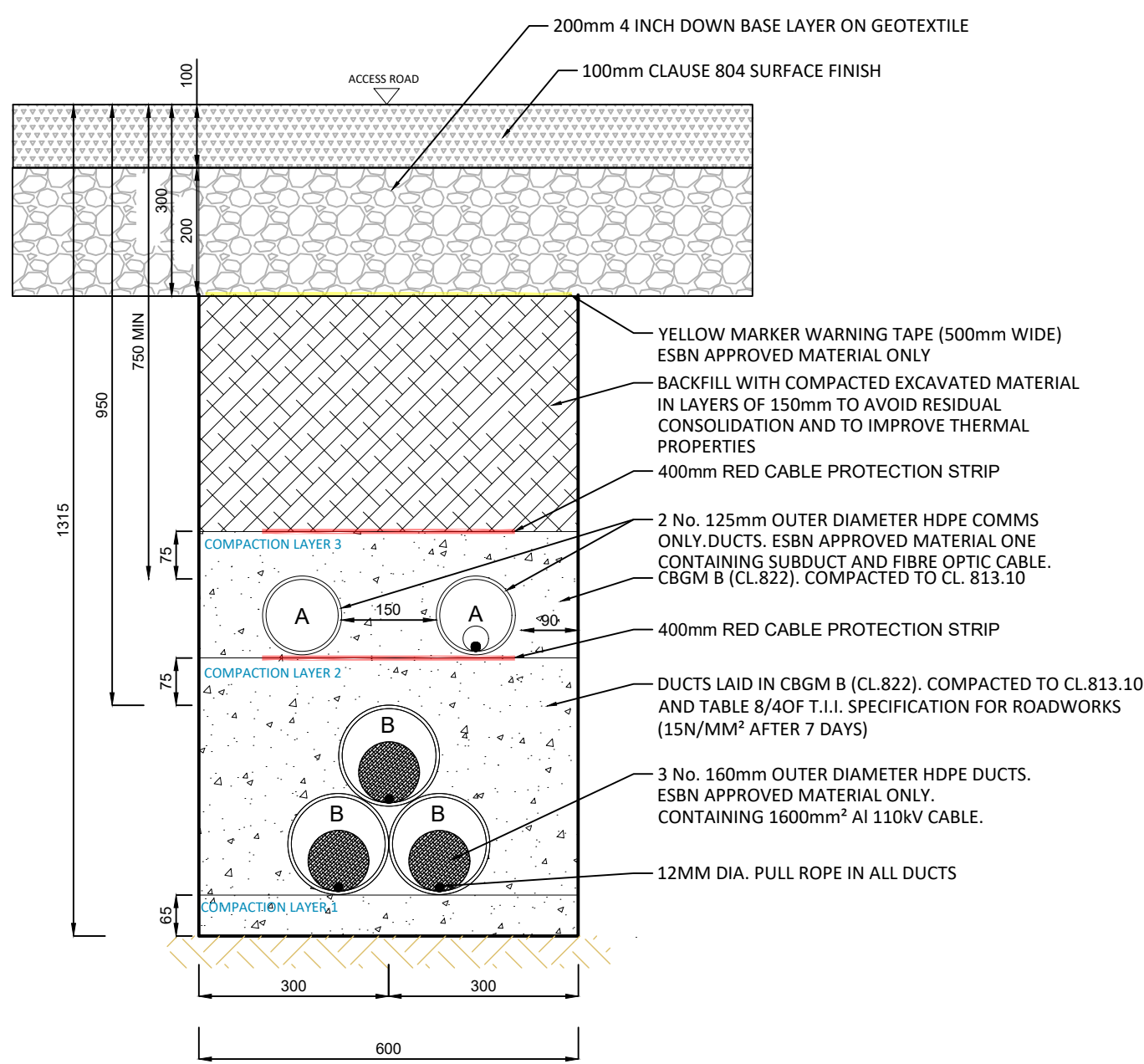
Job Title:

White Hill Wind Farm Electricity Substation & Electricity Line

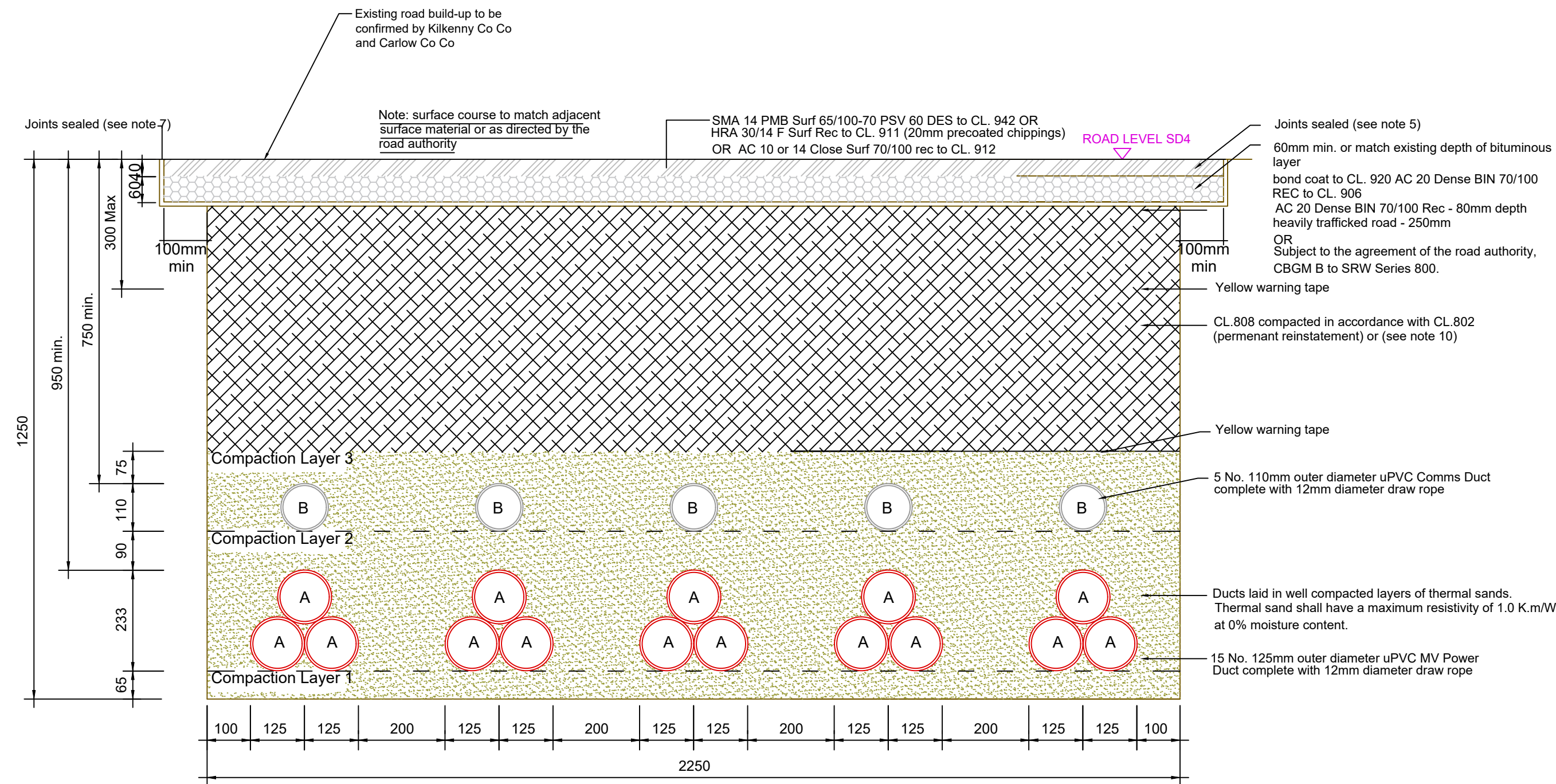
Drawing Title:

FIGURE 7.03: TYPICAL PALISADE FENCE DETAIL

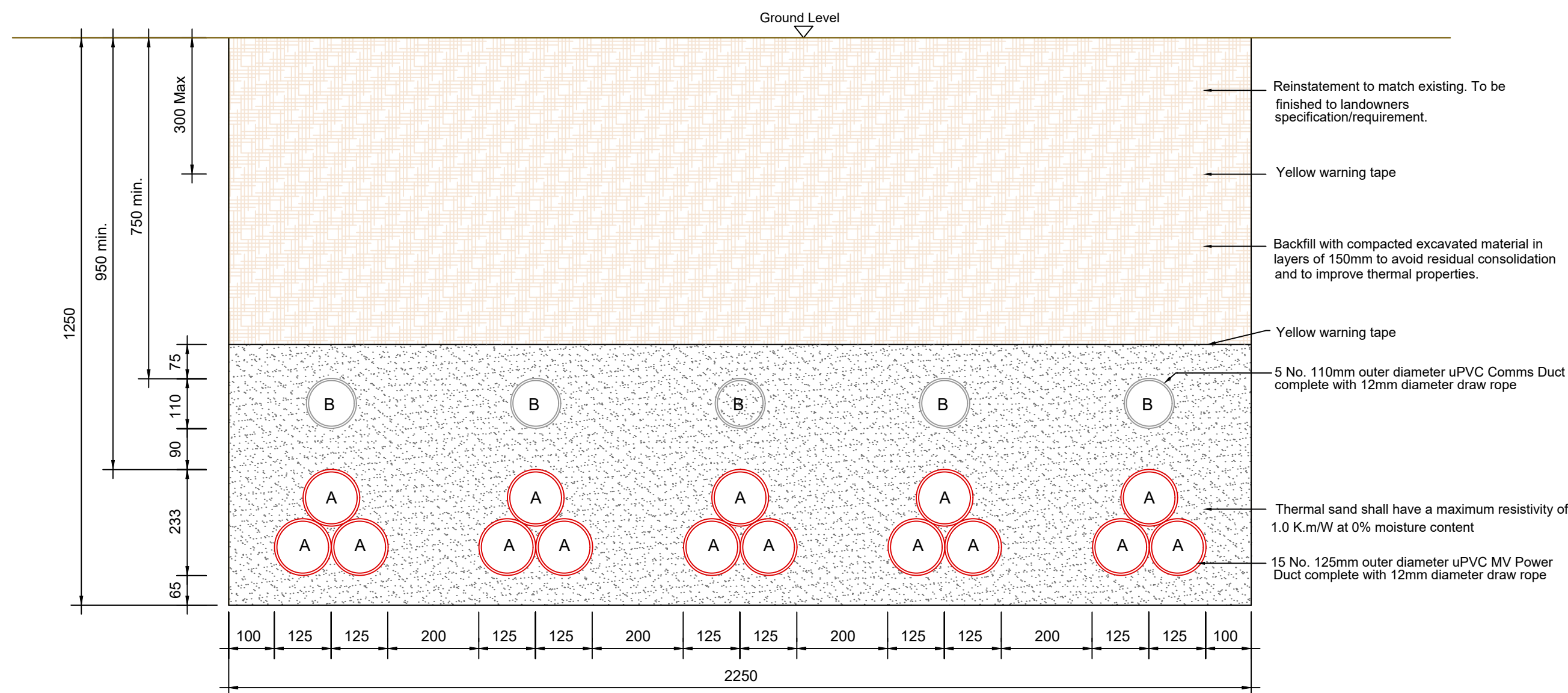
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<u>Drawn By:</u> EF	<u>Checked By:</u> JB	<u>Confirmed By:</u> SC



TYPICAL 110KV CABLE TRENCH DETAIL THROUGH ACCESS TRACKS SECTION
Scale 1:10



MEDIUM VOLTAGE ELECTRICITY LINE TRENCH DETAIL THROUGH PUBLIC ROADWAY SECTION
Scale 1:10



MEDIUM VOLTAGE ELECTRICITY LINE TRENCH DETAIL THROUGH OFF ROAD SECTION
Scale 1:10

A = 125mm: Outer Diameter Power Duct,
B = 110mm: Outer Diameter Comms Duct

Notes:

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2. All dimensions in millimetres unless otherwise stated.
3. Dimensions may vary depending on site conditions.

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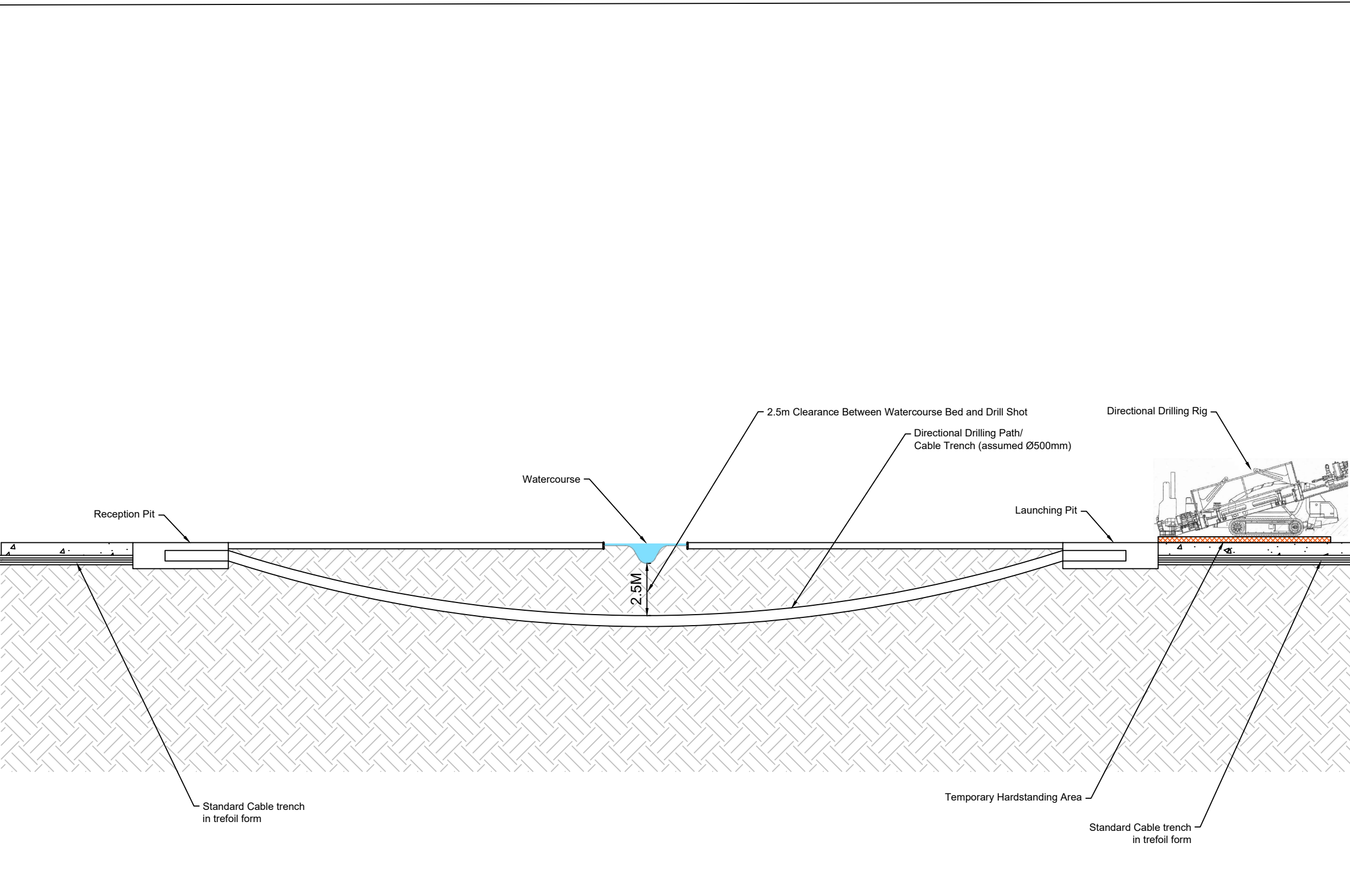
Client: WHITE HILL WIND LIMITED

Job Title: White Hill Wind Farm Electricity Substation & Electricity Line

Drawing Title:

FIGURE 7.04: TYPICAL ELECTRICITY LINE TRENCH DETAIL

<u>Drawing No.</u> WHI001SS_PLAN_GA-0.04		<u>Stage.</u> PLANNING
<u>Scale:</u> (A1) 1:10	<u>Date:</u> 08/01/2025	<u>Revision No.:</u> REV 00
<u>Drawn By:</u> EF	<u>Checked By:</u> JB	<u>Confirmed By:</u> SC



CROSS SECTION
Scale 1:200

- Notes:**
1. All dimensions must be checked on site and not scaled from this drawing.
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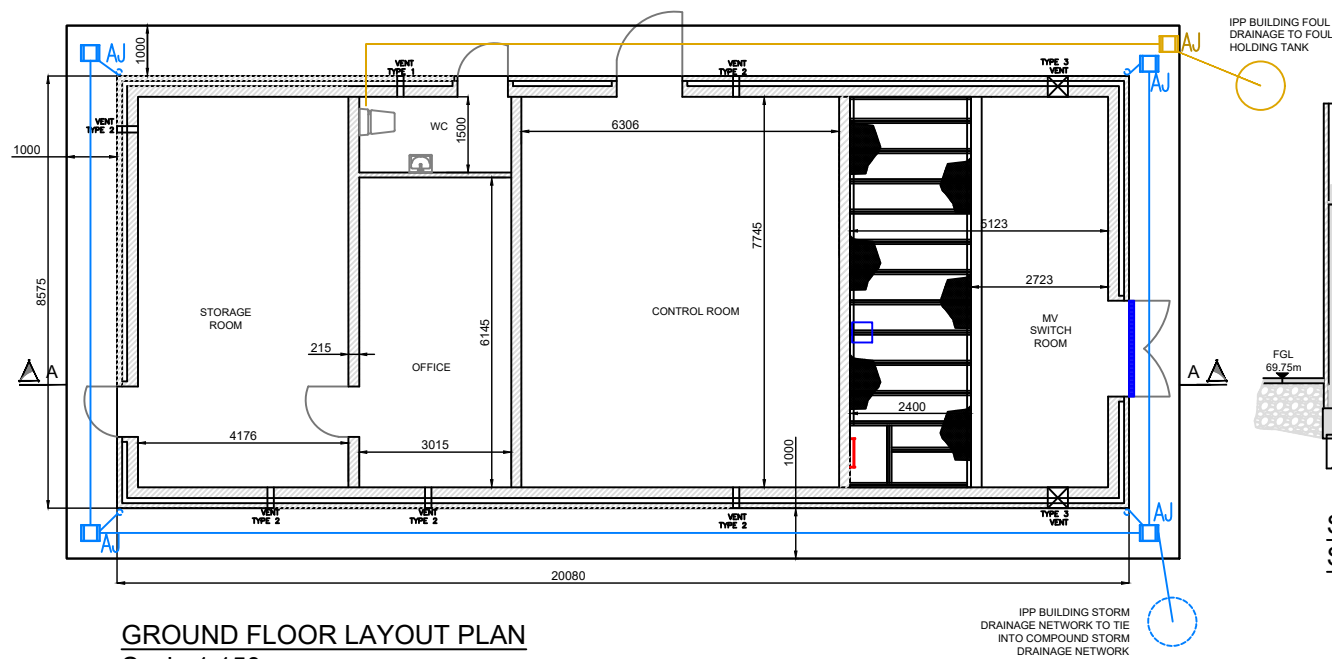
Job Title:

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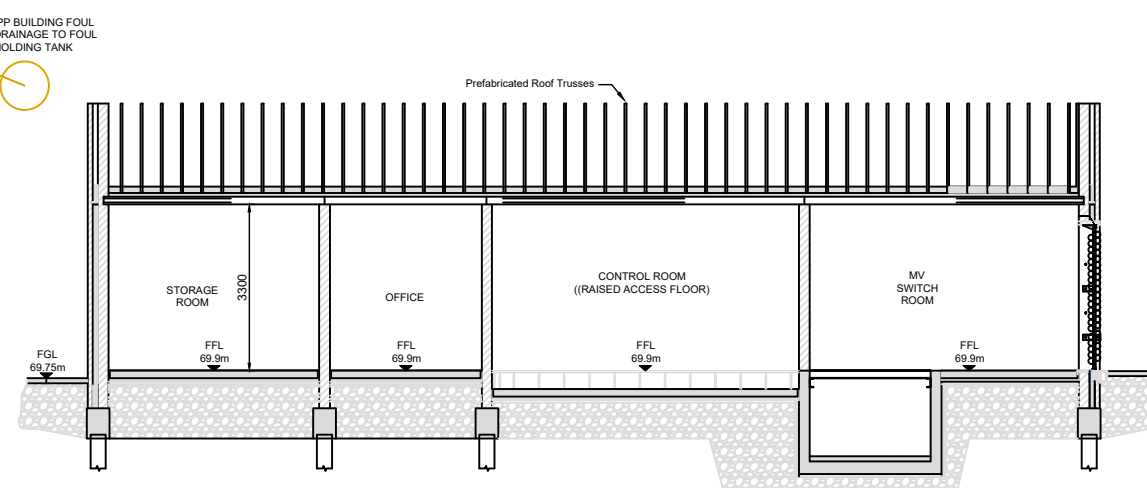
Drawing Title:

FIGURE 7.05: TYPICAL DIRECTIONAL DRILLING DETAIL

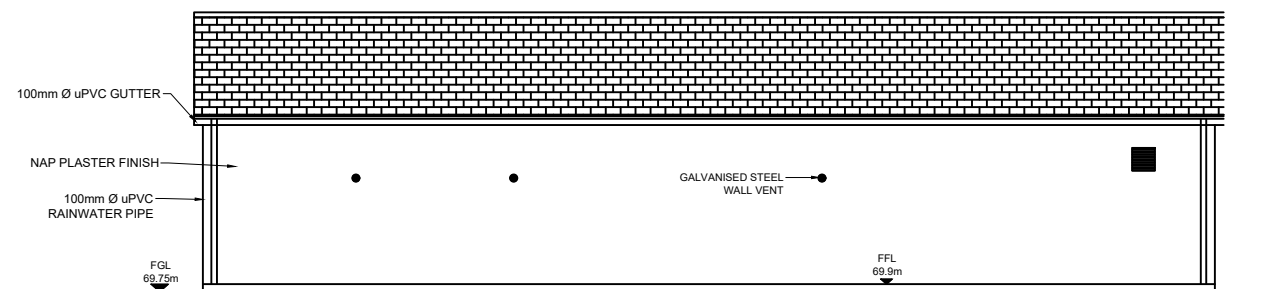
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Drawn By: <div>EF</div>	Checked By: <div>JB</div>	Confirmed By: <div>SC</div>	



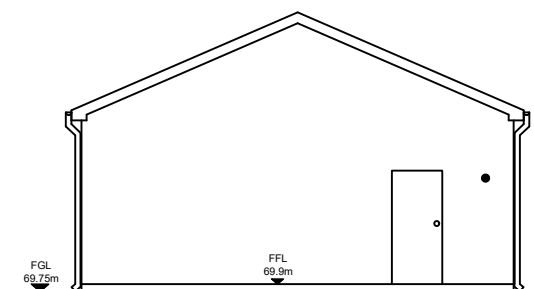
GROUND FLOOR LAYOUT PLAN
Scale 1:150



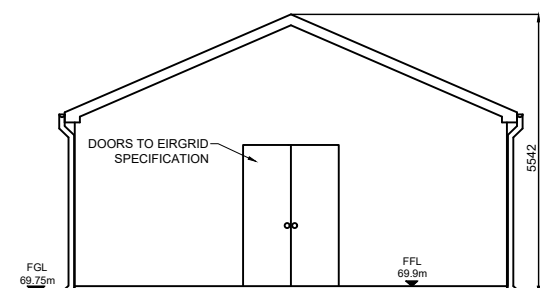
SECTION A-A
Scale 1:150



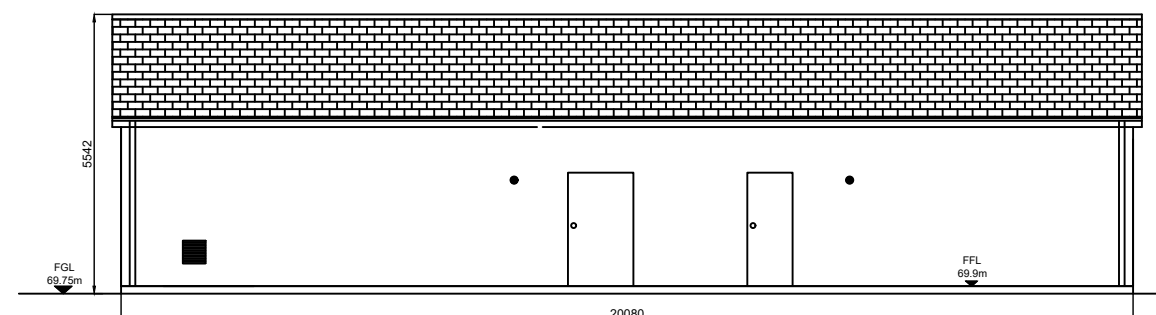
WEST ELEVATION
Scale 1:150



NORTH ELEVATION
Scale 1:150



SOUTH ELEVATION
Scale 1:150



EAST ELEVATION
Scale 1:150

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3. Dimensions may vary depending on site conditions.



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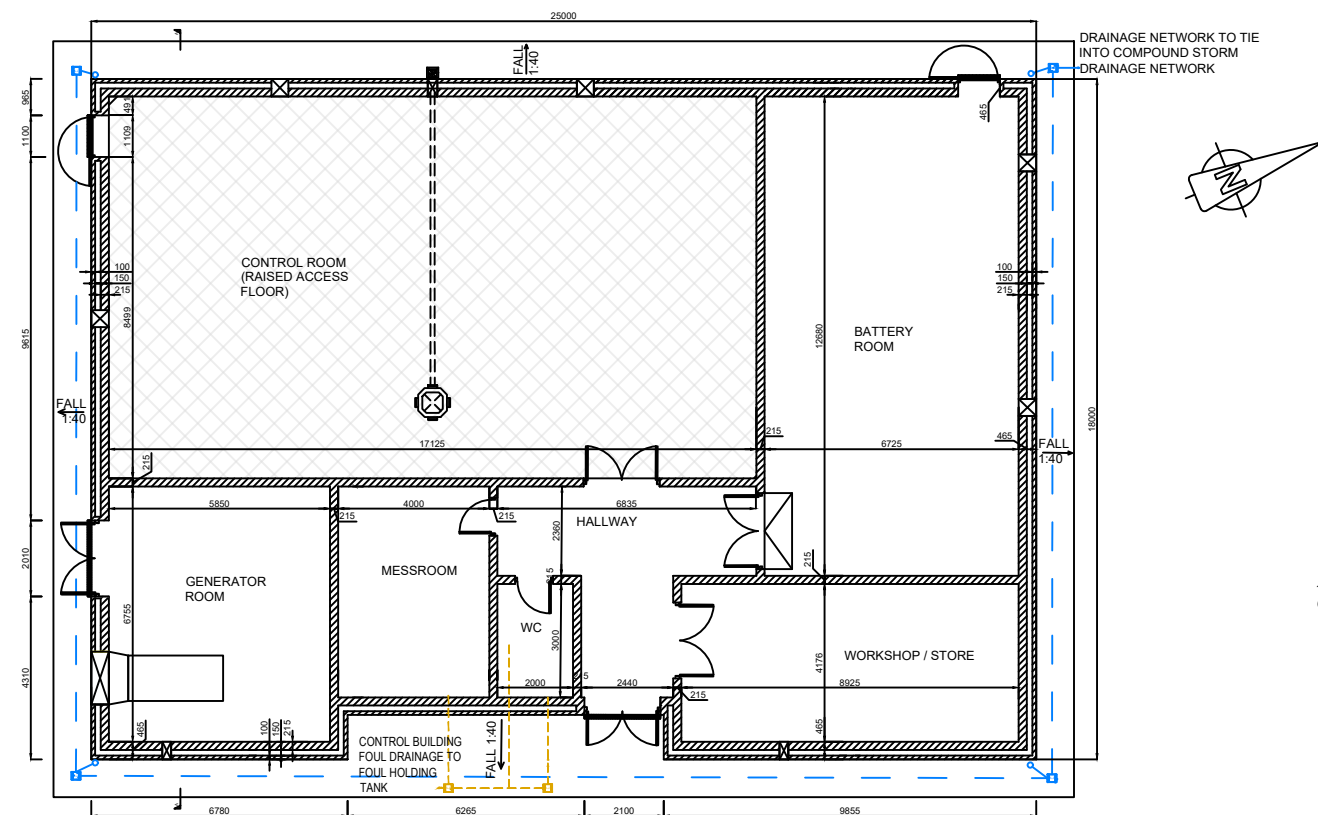
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Job Title:
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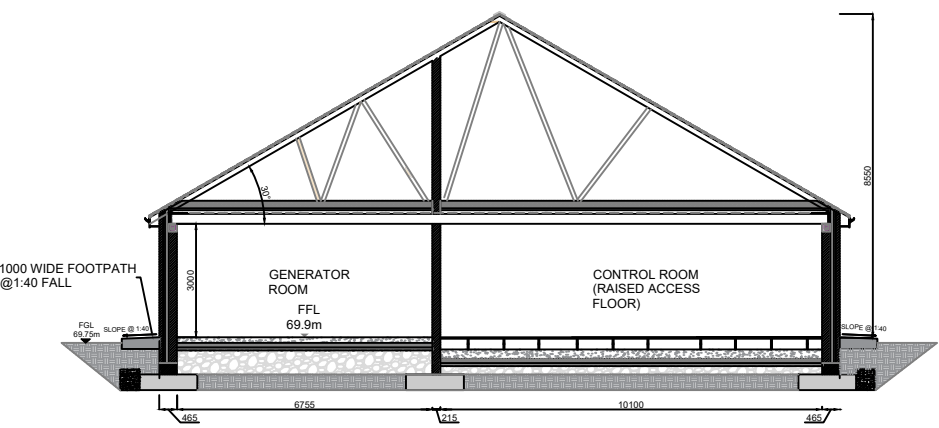
Drawing Title:

FIGURE 7.06: TYPICAL INDEPENDENT
POWER PROVIDER BUILDING PLAN /
ELEVATION / SECTIONS

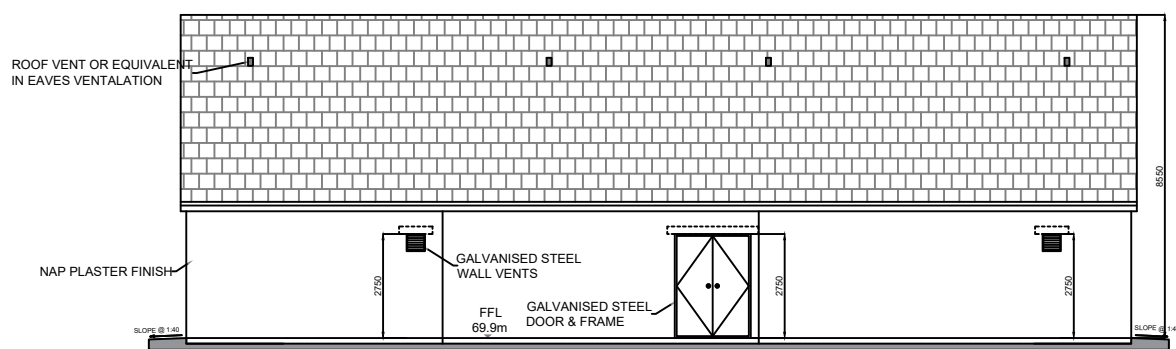
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<u>Drawn By:</u> EF	<u>Checked By:</u> JB	<u>Confirmed By:</u> SC



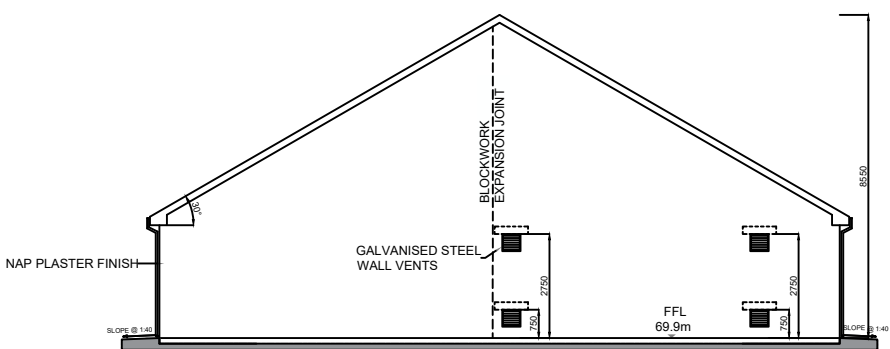
GROUND FLOOR LAYOUT PLAN
Scale 1:200



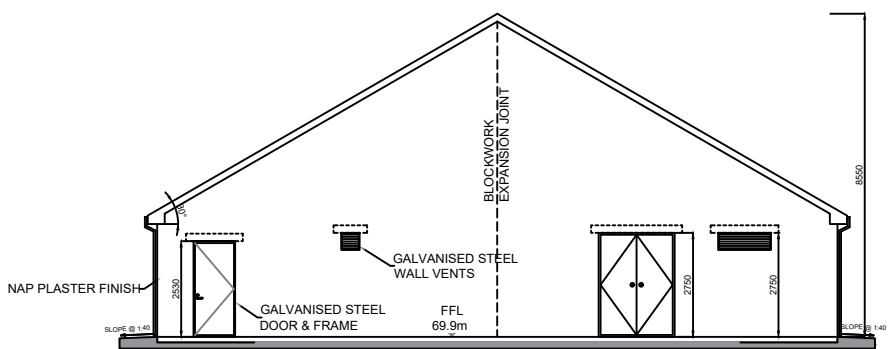
SECTION A-A
Scale 1:200



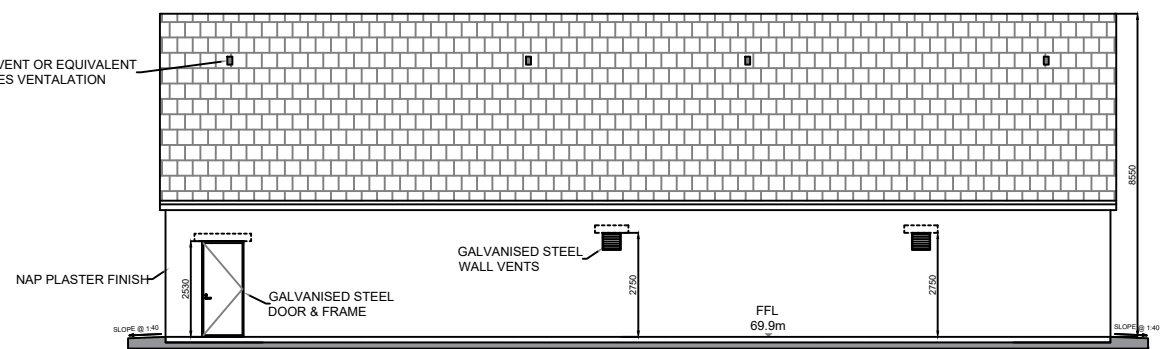
EAST ELEVATION
Scale 1:200



NORTH ELEVATION
Scale 1:200



SOUTH ELEVATION
Scale 1:200



WEST ELEVATION
Scale 1:200

Notes:

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Prepared By:

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Client: **WHITE HILL WIND LIMITED**

Job Title: **White Hill Wind Farm Electricity Substation & Electricity Line**

Drawing Title: **FIGURE 7.07: TYPICAL EIRGRID BUILDING PLAN / ELEVATIONS / SECTIONS**

<u>Drawing No.</u> WHI001SS_PLAN_GA-0.07		<u>Stage.</u> PLANNING	
<u>Scale:</u> (A3) 1:200		<u>Date:</u> 08/01/2025	
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		<u>Confirmed By:</u> SC	