



## **APPENDIX 4-3**

***IONIC TYPICAL DETAIL  
DRAWINGS***



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**



PHOTO A

PROJECT <b>COOLE WIND FARM</b> <b>GRID ROUTE</b>		CLIENT The M.A. Building, The Park, Carradmore, Dublin 18, D18Y644, Ireland E: info@ionics.ie T: +353 (0)1 845 5311 W: www.ionics.ie Formerly known as WIND PROSPECT IRELAND		DRAWING NUMBER <b>COLE d005.1.1</b>		REGION <b>E</b>	
TITLE <b>ILLUSTRATIVE TRENCH TYPE DETAILS</b> <b>SHEET 1 OF 16</b>		SCALE <b>1:10000</b>		DRAWING NUMBER <b>COLE d005.1.1</b>		REGION <b>E</b>	
REVISION E 25/03/2020 MS JS C 17/03/2020 MS JS B 17/03/2020 MS JS A 27/11/2019 MB JS		DATE <b>24/03/2020</b>		SCALE <b>1:10000</b>		REGION <b>E</b>	
ENGINEER <b>M. BROWNE</b>		DATE <b>24/03/2020</b>		SCALE <b>1:10000</b>		REGION <b>E</b>	
CHECKED AND APPROVED <b>J. SHANAHAN</b>		DATE <b>24/03/2020</b>		SCALE <b>1:10000</b>		REGION <b>E</b>	



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PROJECT <b>COOLE WIND FARM GRID ROUTE</b>		CLIENT T14-14 Building, The Park, Carraduff, Dublin 16, D18V6C4, Ireland E: info@ionickconsulting.ie T: +353 (0)1 845 5311 W: www.ionickconsulting.ie Formerly known as WIND PROSPECT IRELAND		DRAWING NUMBER <b>COLE d005.1.2</b>		REGION <b>D</b>	
TITLE <b>ILLUSTRATIVE TRENCH TYPE DETAILS</b>		SCALE <b>1:10000</b>		SHEET NUMBER <b>2 OF 16</b>		SHEET TITLE <b>ILLUSTRATIVE TRENCH TYPE DETAILS</b>	
DRAWING NUMBER <b>COLE d005.1.2</b>		DATE <b>24/03/2020</b>		DATE <b>24/03/2020</b>		PROJECT NUMBER <b>279944-001-01</b>	
DESIGNER <b>M. BROWNE</b>		CHECKED AND APPROVED <b>J. SHANAHAN</b>		DRAWING DATE <b>24/03/2020</b>		DRAWING BY <b>J. SHANAHAN</b>	
REV. DATE C 14/03/2020 B 17/03/2020 A 27/11/2019		DESIGNED BY M.B.		CHECKED BY J.S.		DRAWN BY J.S.	
GENERAL REGION GENERAL REGION POINT BAYS ADDED FIRST ISSUE		GENERAL REGION GENERAL REGION POINT BAYS ADDED FIRST ISSUE		GENERAL REGION GENERAL REGION POINT BAYS ADDED FIRST ISSUE		GENERAL REGION GENERAL REGION POINT BAYS ADDED FIRST ISSUE	



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REV.	DATE	CREATED BY	CHECKED BY	DETAILS
C	2003.2020	MS	JS	GENERAL REVISION
B	23.01.2020	MB	JS	JOINT BAYS ADDED
A	27.11.2019	MB	JS	FIRST ISSUE

ENGINEER  
**IONIC CONSULTING**  
 This High Building, The Park, Carrmolin, Dublin 16, D18VX44, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0) 1 845 5031  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

ENGINEER  
 M. BROWNE  
 CHECKED AND APPROVED  
 J. SHANAHAN

CLIENT  
 DRAWING NUMBER  
 COLE d005.1.3

SCALE  
 1:10000

PROJECT  
 COOLE WIND FARM  
 GRID ROUTE

TITLE  
 ILLUSTRATIVE TRENCH TYPE DETAILS  
 SHEET 3 OF 16

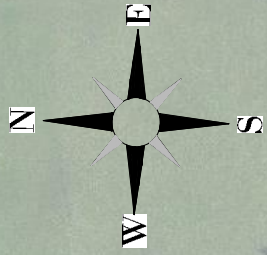
REGION  
 C



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**



REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
C	2003/2020	MS	JS	GENERAL REVISION
B	2001/2020	MB	JS	JOINT BAYS ADDED
A	27.11.2019	MB	JS	FIRST ISSUE

<b>DESIGNED BY</b>	M. BROWNE
<b>CHECKED AND APPROVED</b>	J. SHANAHAN
<b>DATE</b>	19/03/2020

<b>CLIENT</b>	WIND PROSPECT IRELAND
<b>DATE</b>	19/03/2020
<b>PAPER SIZE</b>	A3
<b>SCALE</b>	1:10000
<b>STATUS</b>	ISSUED

<b>PROJECT</b>	COOLE WIND FARM
<b>TITLE</b>	GRID ROUTE
<b>DRAWING NUMBER</b>	ILLUSTRATIVE TRENCH TYPE DETAILS
<b>REGION</b>	C
<b>REVISION</b>	SHEET 4 OF 16
<b>PROJECT</b>	COLE d005.1.4

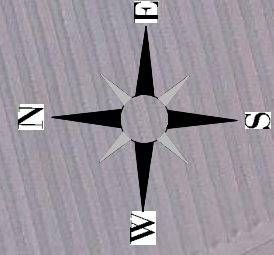
IONIC CONSULTING  
 10-14 Building, The Park, Carradmore, Dublin 18, D18Y6C4, Ireland  
 E: info@ionic.ie  
 T: +353 (0)1 845 5311  
 W: www.ionicconsulting.ie  
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**LEGEND**

**TRENCH TYPES**

- TYPE A █
- TYPE B █
- TYPE C █
- TYPE D █
- TYPE E █

**STANDARD TRENCH**

- █

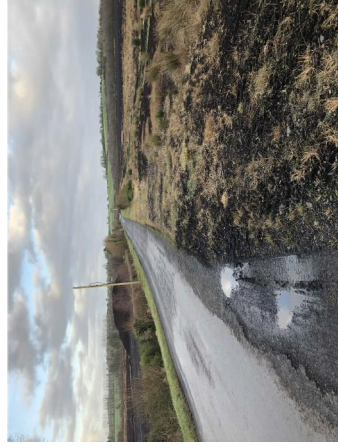


PHOTO A



PHOTO B

REV.	DATE	DRAWN BY	CHECKED BY	DETAILS
D	19/03/2020	MS	JS	GENERAL DESIGN
B	19/03/2020	MS	JS	REWORKS
A	27/11/2019	MS	JS	JOINT BAYS ADDED
				PRINT ISSUE

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 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5301  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

ENGINEER: **M. BROWNE**  
 CHECKED AND APPROVED: **J. SHANAHAN**  
 DATE: 19/03/2020  
 SCALE: 1:10000  
 PAPER SIZE: A3  
 DRAWING NUMBER: COLE d005.1.5

PROJECT: **COOLE WIND FARM GRID ROUTE**

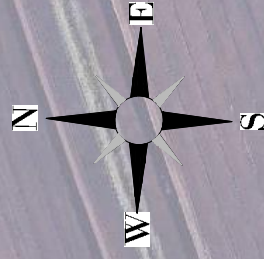
TITLE: **ILLUSTRATIVE TRENCH TYPE DETAILS SHEET 5 OF 16**

REVISION: **D**

27/11/2019 15:11:59



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**



PHOTO A

REV	DATE	DESIGNED BY	CHECKED BY	DATE
D	19/03/2020	JS	JS	
C	19/03/2020	MB	MB	
B	19/03/2020	MB	MB	
A	27/11/2019	MB	JS	

DESIGNED BY: JS  
 CHECKED AND APPROVED: J. SHANAHAN

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 The 14-16 Building, The Park, Carrigminea, Dublin 18, D18Y6C4, Ireland  
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 W: www.ionicconsulting.ie

CLIENT: WIND PROSPECT IRELAND  
 DRAWING NUMBER: COLE d005.1.6  
 SCALE: 1:10000  
 PAPER SIZE: A3  
 DATE: 19/03/2020

PROJECT: COOLE WIND FARM GRID ROUTE  
 TITLE: ILLUSTRATIVE TRENCH TYPE DETAILS SHEET 6 OF 16  
 REGION: D



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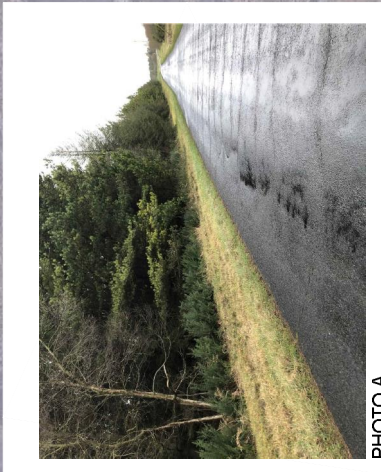
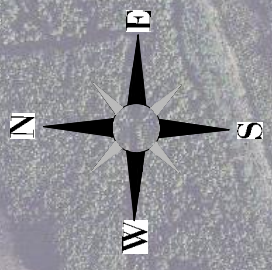


PHOTO A

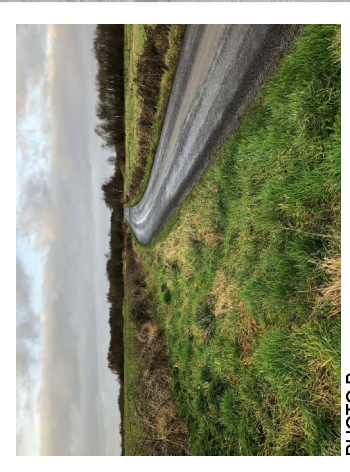


PHOTO B

**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**

REV	DATE	DESIGNED BY	CHECKED BY
D	19/03/2020	JS	JS
C	19/03/2020	MB	MB
B	19/03/2020	MB	MB
A	27/11/2019	MB	JS

GENERAL DESIGN  
NOT TO SCALE  
JOINT BAYS ADDED  
FIRST ISSUE

DESIGNED BY: JS  
CHECKED BY: MB

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Formerly known as WIND PROSPECT IRELAND

10-14, Building, The Park, Carrimoline, Dublin 18, D18Y6C4, Ireland  
E: info@ionicconsulting.ie  
T: +353 (0)1 845 5301  
W: www.ionicconsulting.ie

ENGINEER: M. BROWNE  
CHECKED AND APPROVED: J. SHANAHAN

DATE: 19/03/2020

CLIENT: [Blank]

PAPER SIZE: A3  
SCALE: 1:10000

PROJECT: COOLE WIND FARM GRID ROUTE

TITLE: ILLUSTRATIVE TRENCH TYPE DETAILS SHEET 7 OF 16

DRAWING NUMBER: COLE d005.1.7

REGION: D

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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**

REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
C	2003/2020	M.S.	J.S.	GENERAL BRIDGE
B	2003/2020	M.B.	J.S.	JOINT BAYS ADDED
A	27.11.2019	M.B.	J.S.	FIRST ISSUE

**ENGINEER**  
M. BROWNE  
CHECKED AND APPROVED  
J. SHANAHAN

**IONIC CONSULTING**  
The 14th Building, The Park, Carrigminea, Dublin 18, D18Y6C4, Ireland  
E: info@ionicconsulting.ie  
T: +353 (0)1 845 5301  
W: www.ionicconsulting.ie  
Formerly known as WIND PROSPECT IRELAND

**CLIENT**  
A3  
SCALE  
1:10000

**PROJECT**  
COOLE WIND FARM  
GRID ROUTE

**TITLE**  
ILLUSTRATIVE TRENCH TYPE DETAILS  
SHEET 8 OF 16

**DRAWING NUMBER**  
COLE d005.1.8

**REGION**  
C



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**

- 



PHOTO A



PHOTO B

REV	DATE	DESIGNED BY	CHECKED BY	DATE
D	19/03/2020	JS	JS	
C	19/03/2020	MB	MB	
B	19/03/2020	MB	MB	
A	27/11/2019	MB	JS	

ENGINEER  
**IONIC CONSULTING**  
 THE 14-16 BUILDING, THE PARK, CARRIGMINEE, DUBLIN 16, D18V6C4, IRELAND  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5301  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

DESIGNED BY  
**M. BROWNE**  
 CHECKED AND APPROVED  
**J. SHANAHAN**

CLIENT  
 DATE  
 19/03/2020  
 SCALE  
 1:10000  
 DRAWING NUMBER  
 COLE d005.1.9

PROJECT  
**COOLE WIND FARM GRID ROUTE**  
 TITLE  
**ILLUSTRATIVE TRENCH TYPE DETAILS SHEET 9 OF 16**  
 REGION  
**D**



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REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
B	20/03/2020	MS	JS	GENERAL REVISION
A	27/11/2019	HB	JS	JOINT BAYS ADDED
A		HB	JS	FIRST ISSUE

DESIGNED BY  
M. BROWNE  
CHECKED AND APPROVED  
J. SHANAHAN

**IONIC CONSULTING**  
 The 14th Building, The Park, Carristown, Dublin 18, D18Y6C4, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5311  
 W: www.ionicconsulting.ie  
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CLIENT  
SCALE  
1:10000

DATE  
19/03/2020

DATE  
19/03/2020

PROJECT  
COOLE WIND FARM  
GRID ROUTE

TITLE  
ILLUSTRATIVE TRENCH TYPE DETAILS  
SHEET 10 OF 16

DRAWING NUMBER  
COLE d005.1.10

REGION  
C



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**



REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
C	2003/2020	MS	JS	GENERAL REVISION
B	2001/2020	HB	JS	JOINT BAYS ADDED
A	17/01/2020	HB	JS	FIRST ISSUE

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**IONIC CONSULTING**  
 The 14th Building, The Park, Carrigmolin, Dublin 18, D18Y6C4, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5301  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

DESIGNED BY  
**M. BROWNE**  
 CHECKED AND APPROVED  
**J. SHANAHAN**

CLIENT  
 SCALE  
 1:10000

DATE  
 19/03/2020

DATE  
 19/03/2020

PAPER SIZE  
 A3

STATUS

PROJECT  
**COOLE WIND FARM  
 GRID ROUTE**

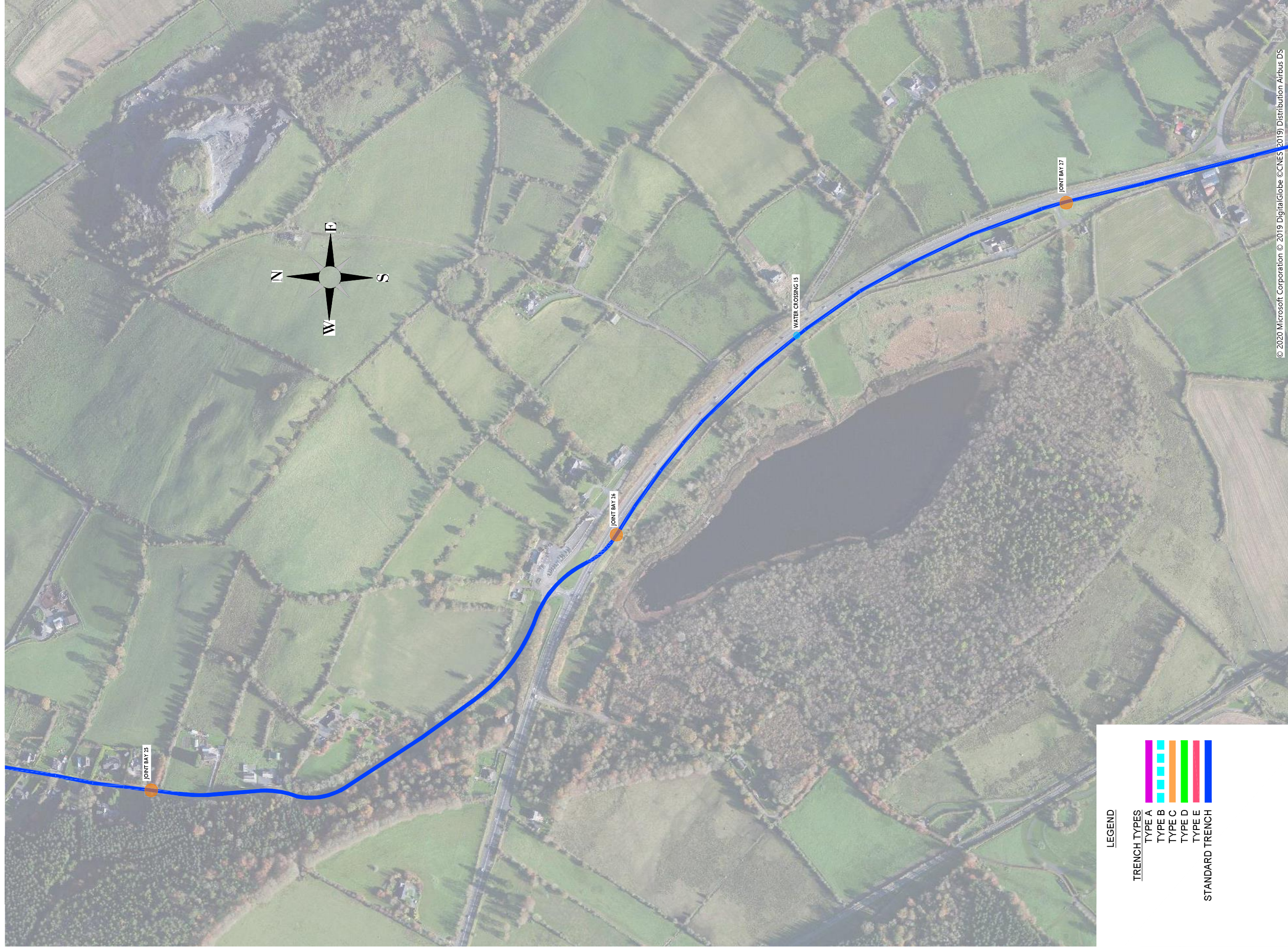
TITLE  
**ILLUSTRATIVE TRENCH TYPE DETAILS  
 SHEET 11 OF 16**

DRAWING NUMBER  
**COLE d005.1.11**

REGION  
**C**



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
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**STANDARD TRENCH**

<p>ENGINEER <b>IONIC CONSULTING</b> The 14-16 Building, The Park, Carrigminea, Dublin 18, D18Y6C4, Ireland E: info@ionicconsulting.ie T: +353 (0)1 845 5301 W: www.ionicconsulting.ie Formerly known as WIND PROSPECT IRELAND</p>		CLIENT	<p>PROJECT <b>COOLE WIND FARM GRID ROUTE</b></p>	
<p>DESIGNED BY M. BROWNE</p>	<p>CHECKED AND APPROVED J. SHANAHAN</p>	<p>DATE 19/03/2020</p>	<p>SCALE A3 1:10000</p>	<p>TITLE <b>ILLUSTRATIVE TRENCH TYPE DETAILS</b></p>
<p>REV. DATE</p>	<p>DESIGNED BY</p>	<p>CHECKED BY</p>	<p>DRAWING NUMBER COLE d005.1.12</p>	<p>SHEET 12 OF 16</p>
<p>C 2003/2020 MS JS</p> <p>B 2001/2020 MB JS</p> <p>A 17/01/2020 MB JS</p>	<p>GENERAL REVISION</p> <p>JOINT BAYS ADDED</p> <p>PRINT ISSUE</p>	<p>DATE</p>	<p>DRAWING NUMBER</p>	<p>PERIOD C</p>



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**



REV	DATE	DESIGNED BY	CHECKED BY
C	2003/2020	M.S.	J.S.
B	2003/2020	H.B.	J.S.
A	17/01/2020	H.B.	J.S.

ENGINEER  
**IONIC CONSULTING**  
 The 14-16 Building, The Park, Carrigmolin, Dublin 18, D18Y6C4, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5301  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

DESIGNED BY  
**M. BROWNE**  
 CHECKED AND APPROVED  
**J. SHANAHAN**

CLIENT  
 DATE  
 19/03/2020  
 DATE  
 19/03/2020

SCALE  
 1:10000

PAPER SIZE  
 A3

STATUS  
 DRAFT

DRAWING NUMBER  
 COLE d005.1.13

TITLE  
 ILLUSTRATIVE TRENCH TYPE DETAILS  
 SHEET 13 OF 16

PROJECT  
 COOLE WIND FARM  
 GRID ROUTE

REGION  
 C

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REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
C	2003/2020	MS	JS	GENERAL BRONCH
B	2001/2020	MB	JS	POINT BAYS ADDED
A	17/01/2020	MB	JS	FIRST ISSUE

ENGINEER  
**IONIC CONSULTING**  
 The 14-16 Building, The Park, Carristown, Dublin 18, D18Y6C4, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5301  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

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**M. BROWNE**  
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**J. SHANAHAN**

CLIENT  
 CLIENT  
 DRAWING NUMBER  
**COLE d005.1.14**

SCALE  
 1:10000

PAPER SIZE  
 A3

STATUS  
 STATUS

DATE  
 19/03/2020

DATE  
 19/03/2020

PROJECT  
**COOLE WIND FARM  
 GRID ROUTE**

TITLE  
**ILLUSTRATIVE TRENCH TYPE DETAILS  
 SHEET 14 OF 16**

REGION  
**C**



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LEGEND

TRENCH TYPES

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E
- STANDARD TRENCH

REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
C	2003/2020	MS	JS	GENERAL BRONCH
B	2003/2020	MB	JS	JOINT BAYS ADDED
A	17/01/2020	MB	JS	FIRST ISSUE

ENGINEER  
**IONIC CONSULTING**  
 The 14th Building, The Park, Carradmore, Dublin 18, D18Y6C4, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5311  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND  
 DRAWN BY  
**M. BROWNE**  
 CHECKED AND APPROVED  
**J. SHANAHAN**

CLIENT  
 PROJECT  
 SCALE  
 DRAWING NUMBER  
 SHEET 15 OF 16  
 REGION  
 COLE d005.1.15  
 C

PROJECT  
 CLIENT  
 SCALE  
 DRAWING NUMBER  
 SHEET 15 OF 16  
 REGION  
 COLE d005.1.15  
 C



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**LEGEND**

**TRENCH TYPES**

- TYPE A
- TYPE B
- TYPE C
- TYPE D
- TYPE E

**STANDARD TRENCH**



REV	DATE	DESIGNED BY	CHECKED BY	DETAILS
C	20/03/2020	M.S.	J.S.	GENERAL REVISION
B	15/01/2020	M.B.	J.S.	POINT BAYS ADDED
A	17/01/2020	M.B.	J.S.	FIRST ISSUE

**ENGINEER**  
  
 The 14-16 Building, The Park, Carristown, Dublin 18, D18Y6C4, Ireland  
 E: info@ionicconsulting.ie  
 T: +353 (0)1 845 5301  
 W: www.ionicconsulting.ie  
 Formerly known as WIND PROSPECT IRELAND

**DRAWN BY**  
M. BROWNE

**CHECKED AND APPROVED**  
J. SHANAHAN

**CLIENT**  
WIND PROSPECT IRELAND

**DATE**  
20/03/2020

**DATE**  
20/03/2020

**PAPER SIZE**  
A3

**SCALE**  
1:10000

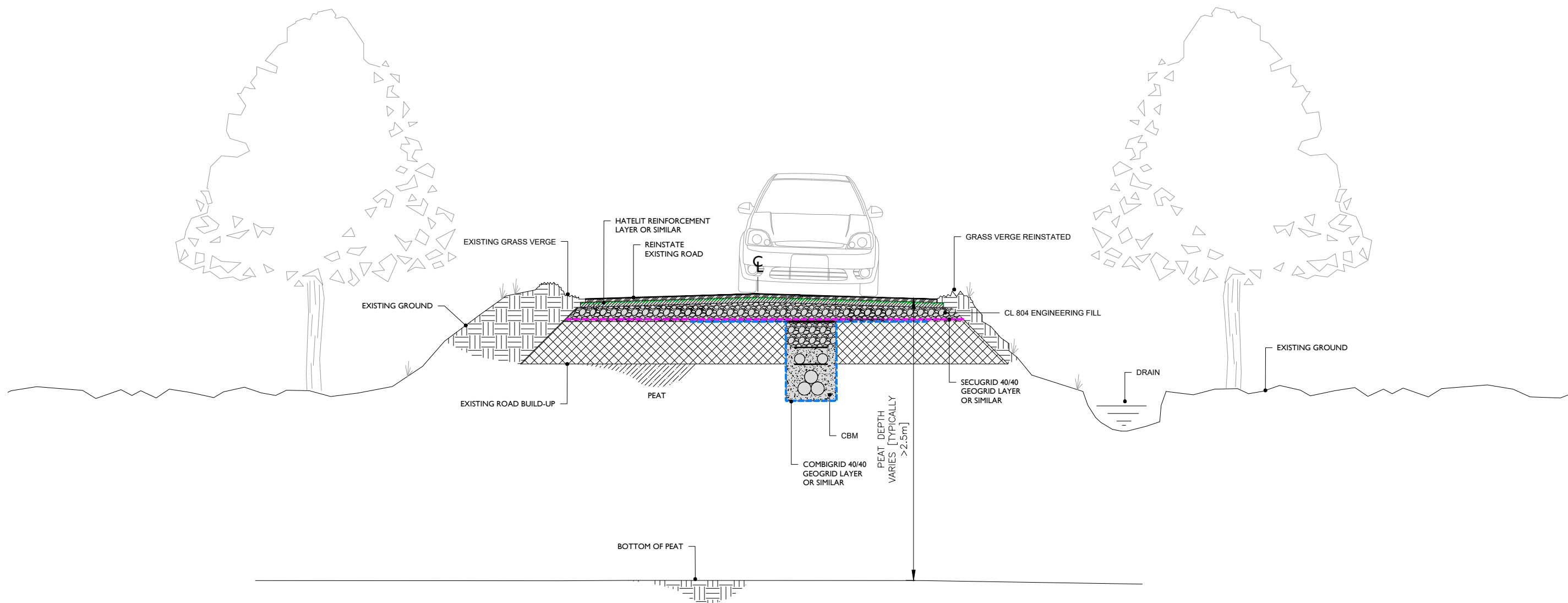
**PROJECT**  
COOLE WIND FARM  
GRID ROUTE

**TITLE**  
ILLUSTRATIVE TRENCH TYPE DETAILS  
SHEET 16 OF 16

**DRAWING NUMBER**  
COLE d005.1.16


**REVISION**  
C



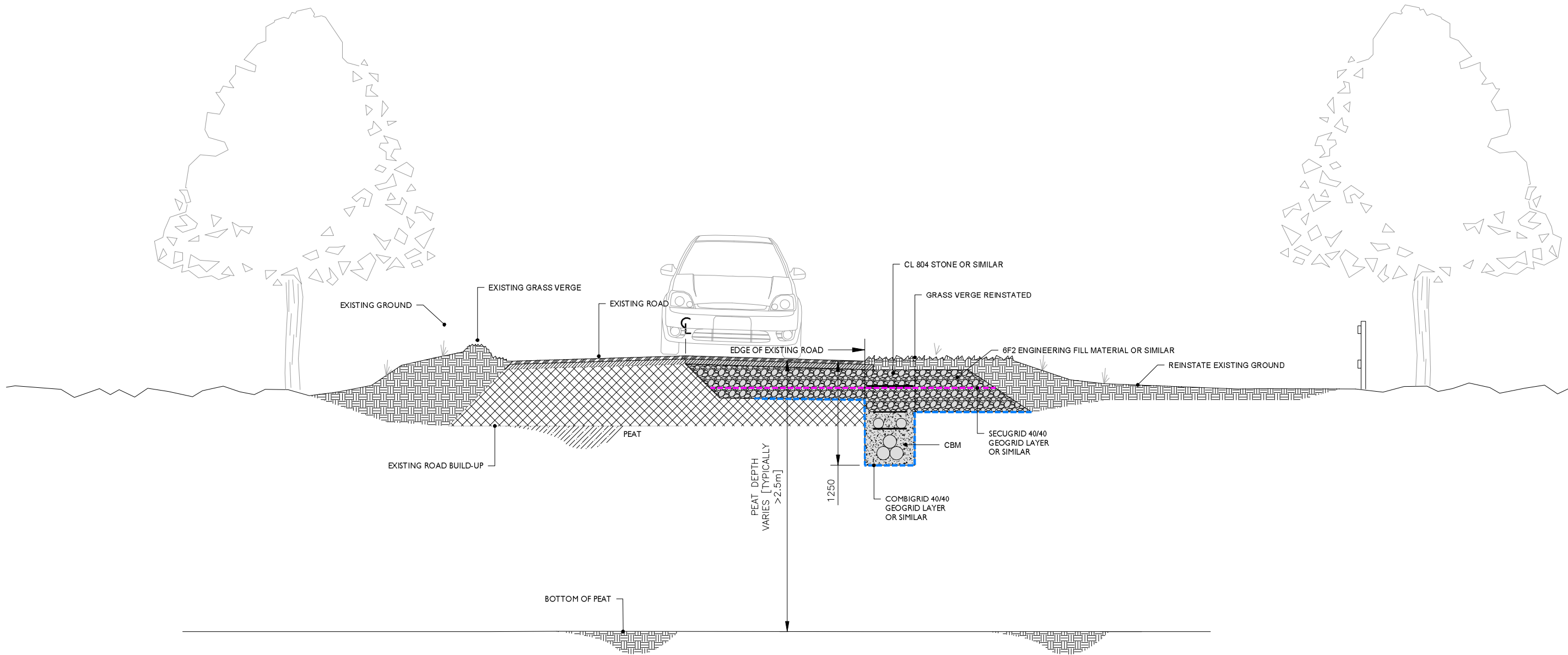


**ILLUSTRATIVE SECTION THROUGH FLOATING ROAD**  
**[>2.5M TO BASE OF PEAT]**  
 SCALE 1:50

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NOTES					ENGINEER		CLIENT		PROJECT	
					 The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E: hello@ionicconsulting.ie T: +353 (0) 1 845 9231 W: www.ionicconsulting.ie Formerly known as WIND PROSPECT IRELAND				<b>COOLE WIND FARM          GRID ROUTE</b>	
					DRAWN BY		PAPER SIZE		REVISION	
					M. BROWNE		A3		A	
					DATE		SCALE			
					09/12/2019		1:50			
					CHECKED AND APPROVED		STATUS		DRAWING NUMBER	
					J. SHANAHAN				COLE d005.2.1	
REV	DATE	DRAWN BY	CHECKED BY	DETAILS						
A	10.12.2019	M.B.	J.S.	FIRST ISSUE						





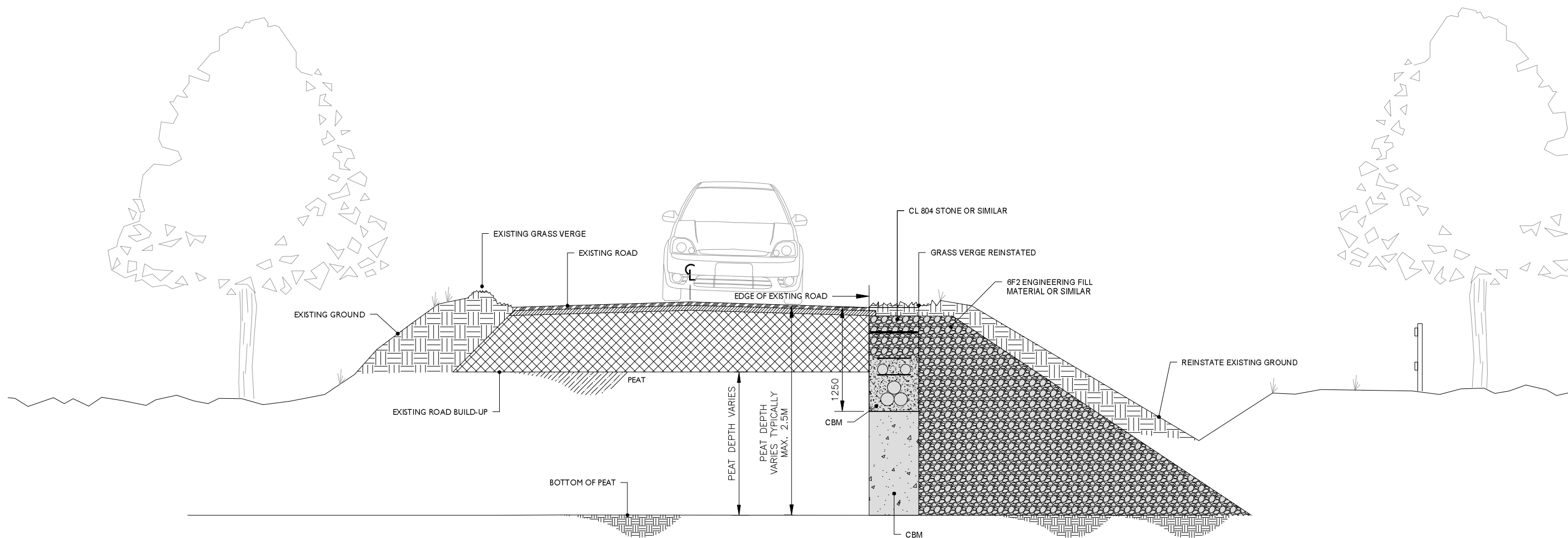
**TYPICAL SECTION THROUGH FLOATING ROAD  
TRENCH IN VERGE [TYPICALLY >2.5M TO BASE OF PEAT]  
SCALE 1:50**

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NOTES					ENGINEER		CLIENT		PROJECT																	
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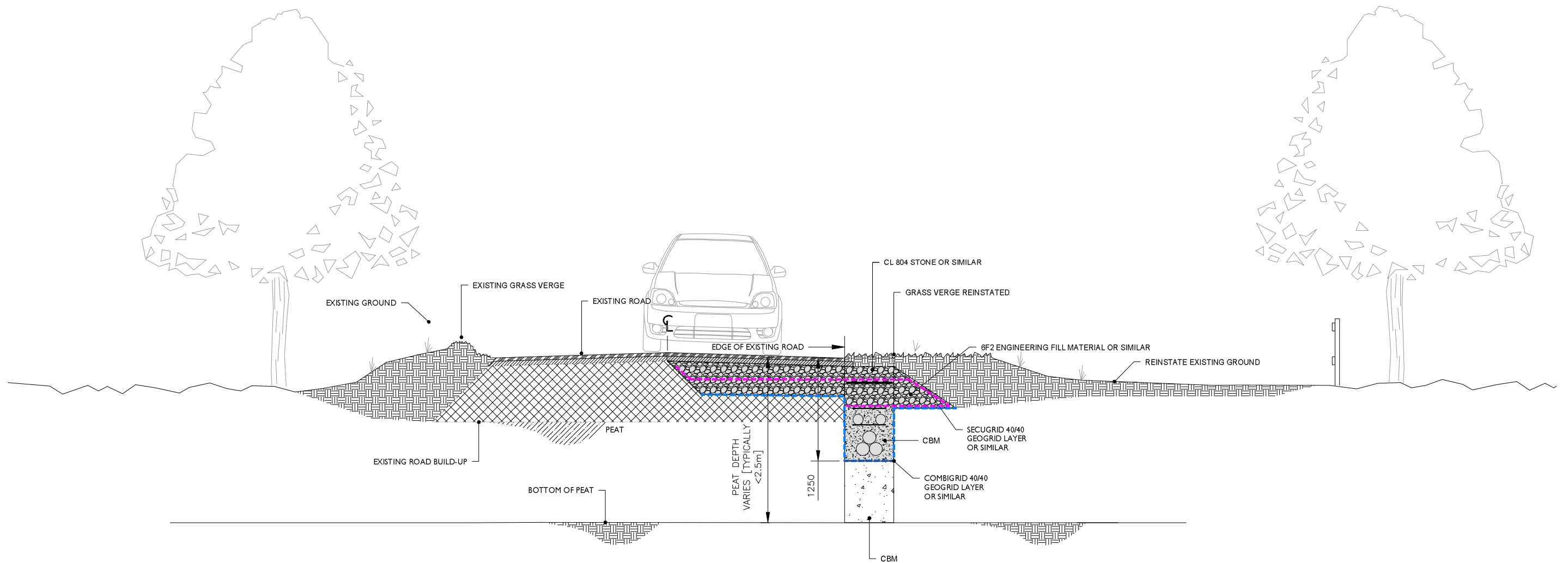


**TYPICAL SECTION THROUGH FLOATING ROAD  
TRENCH IN VERGE [ $<2.5\text{M}$  TO BASE OF PEAT]**  
SCALE 1:50

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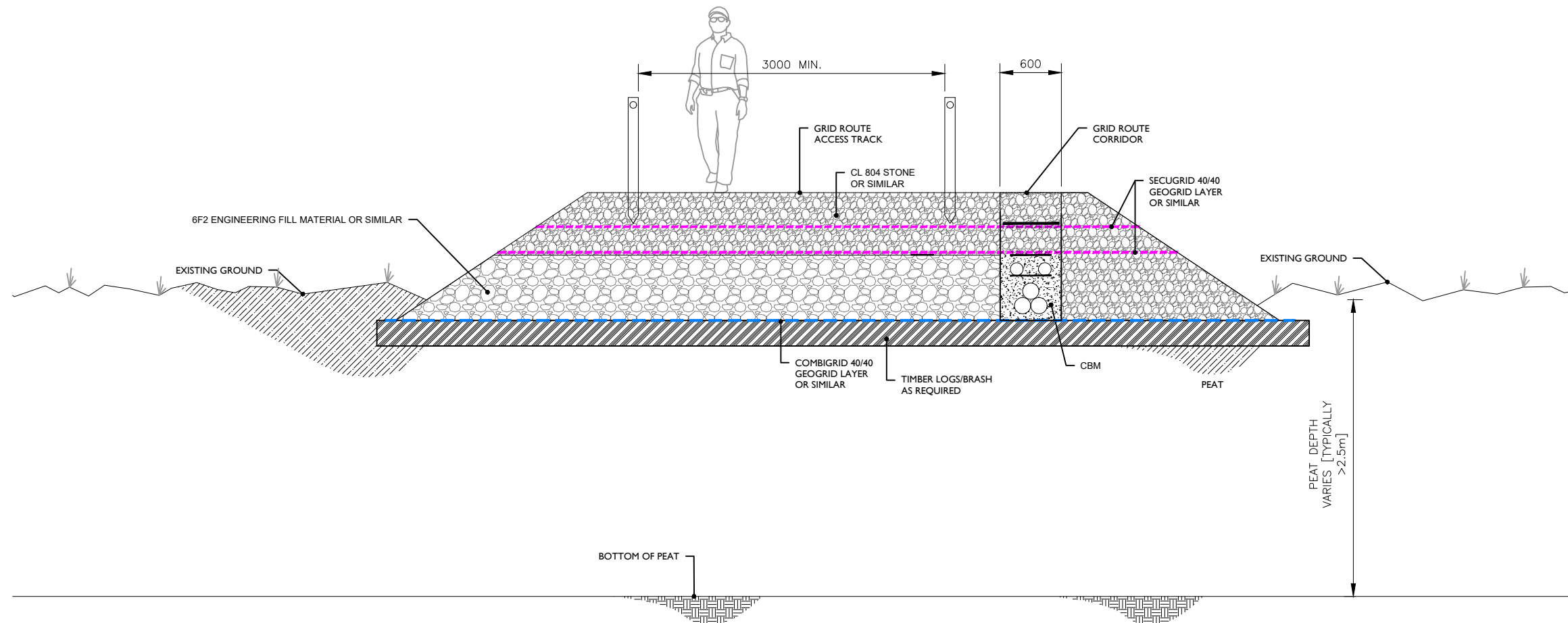


**TYPICAL SECTION THROUGH FLOATING ROAD  
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SCALE 1:50

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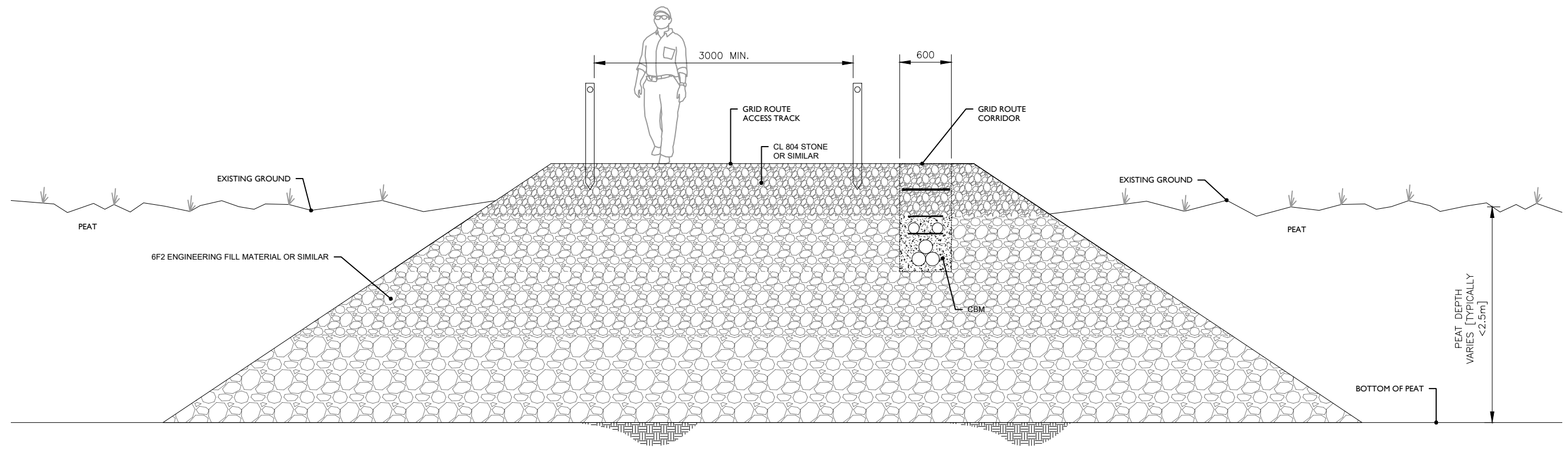


**TYPICAL SECTION THROUGH FLOATING GRID ROUTE TRACK**  
Scale 1:50

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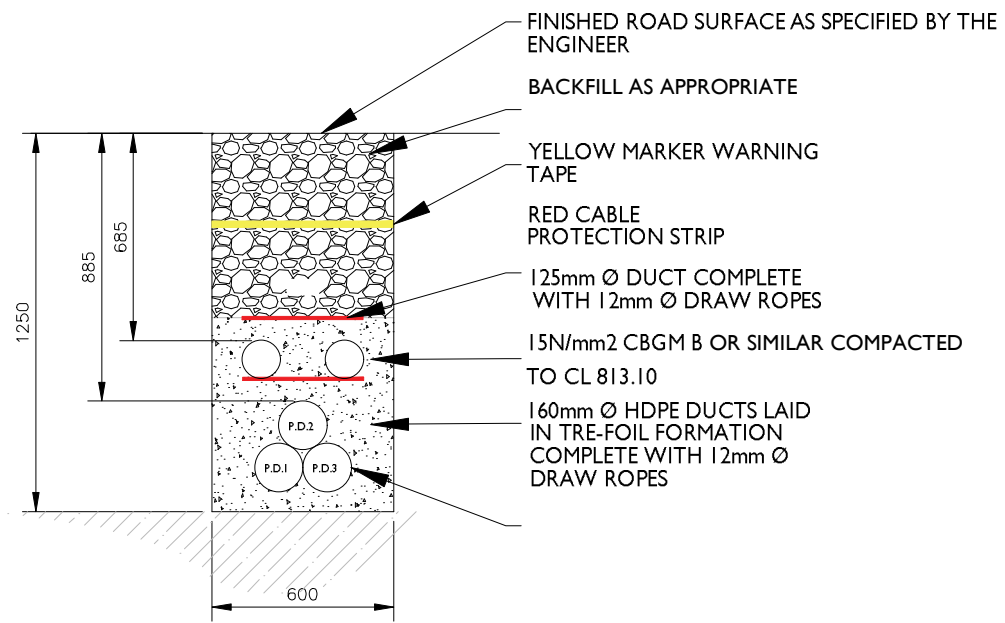


**TYPICAL SECTION THROUGH SOLID GRID ROUTE TRACK**  
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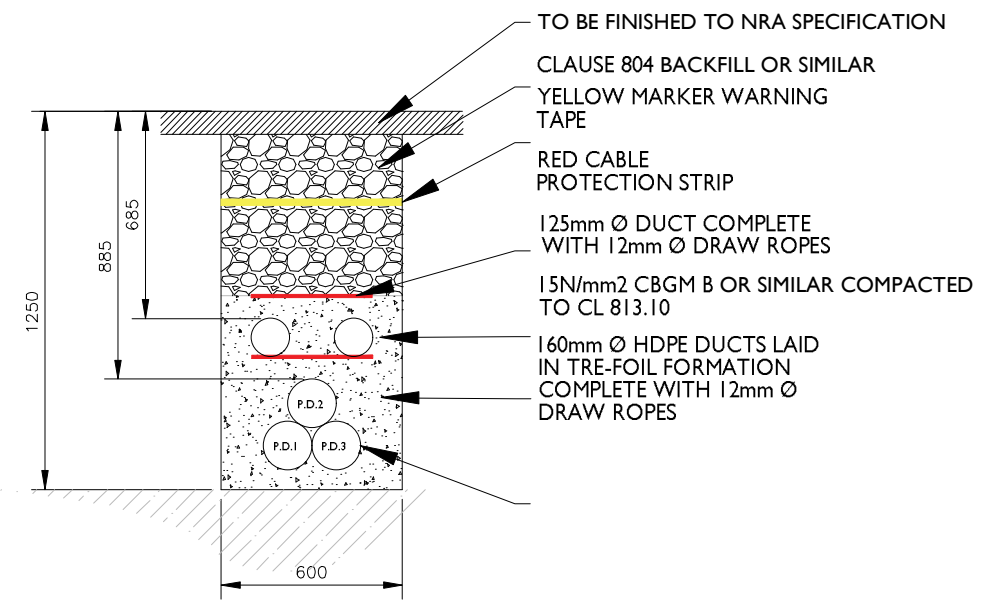
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TYPICAL TRENCH DETAIL - PRIVATE ROAD




TYPICAL TRENCH DETAIL - PUBLIC ROAD

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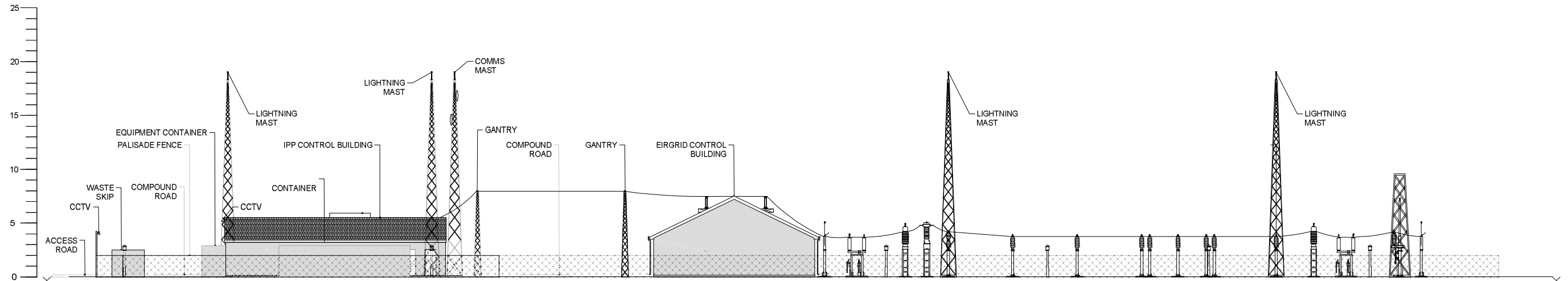
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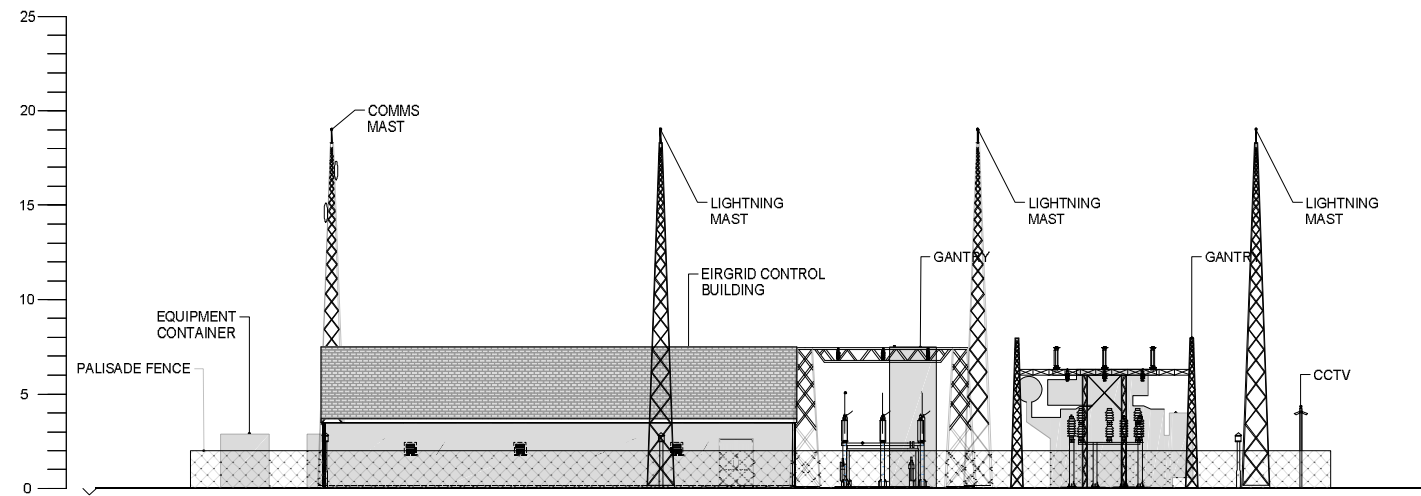
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				<p>REVISION</p> <p>A</p>	
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Plot No. - 21/01/2020 (12:18)  
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SIDE ELEVATION



END ELEVATION

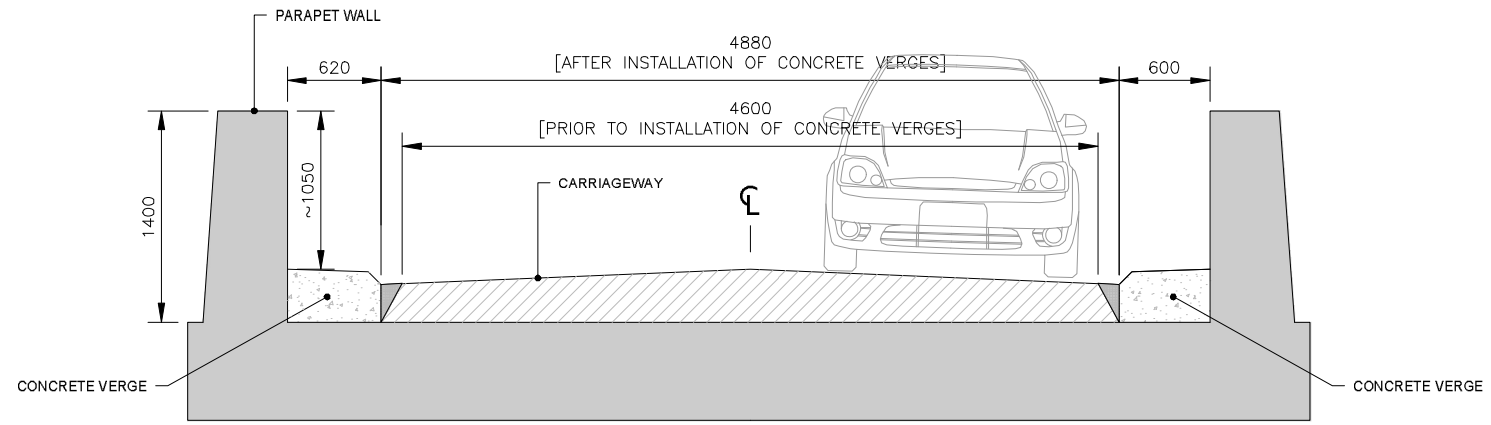
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- LAYOUT AND ARRANGEMENT OF SUBSTATION CONTROL BUILDING AND ELECTRICAL EQUIPMENT WITHIN COMPOUND IS SHOWN INDICATIVELY AND FOR ILLUSTRATION PURPOSES ONLY. DETAILS ARE BASED ON CURRENTLY ANTICIPATED EIRGRID/ESBN SPECIFICATIONS. FINAL LAYOUT AND ELECTRICAL EQUIPMENT DETAILS WILL BE CONFIRMED DURING DETAILED DESIGN WHEN EIRGRID/ESBN FINAL SPECIFICATIONS ARE CONFIRMED.
  - FINAL SPECIFICATIONS OF BUILDINGS AND ELECTRICAL EQUIPMENT WILL BE AS PER EIRGRID AND ESB SPECIFICATIONS.
  - POSITION AND NUMBER OF LIGHTNING MASTS TO BE CONFIRMED IN FINAL DESIGN.
  - INTERNAL SUBSTATION DUCTING OMITTED FOR CLARITY.

REV	DATE	DRAWN BY	CHECKED BY	DETAILS
A	16/01/2020	JS	PK	FIRST ISSUE

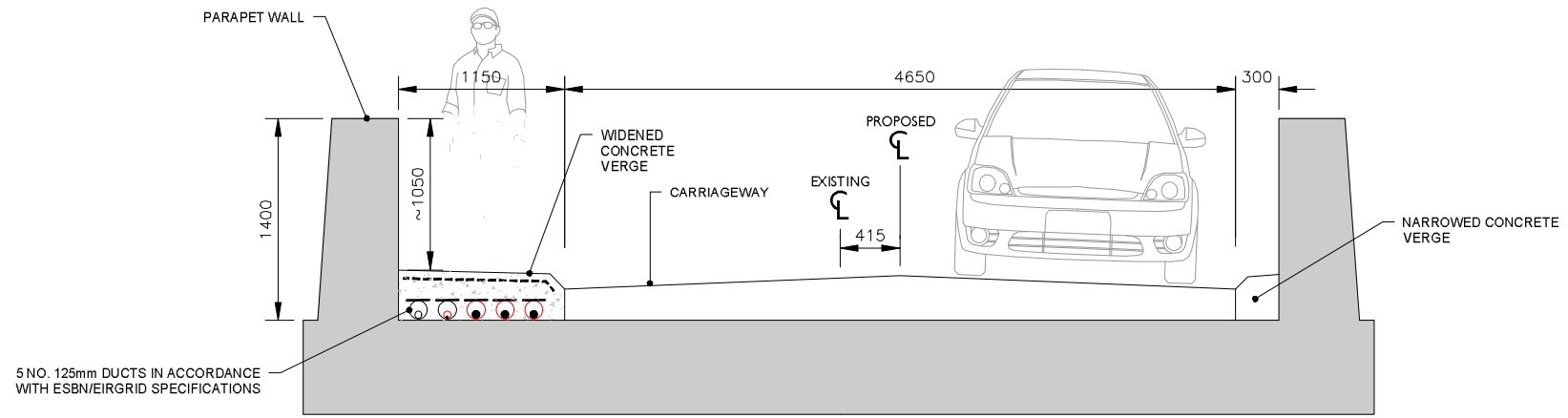
ENGINEER	 <p>The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland          E: hello@ionicconsulting.ie          T: +353 (0) 1 845 5031          W: www.ionicconsulting.ie          Formerly known as WIND PROSPECT IRELAND</p>	CLIENT	PROJECT
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COOLE WIND FARM		REVISION
SUBSTATION COMPOUND ILLUSTRATIVE ELEVATIONS		A
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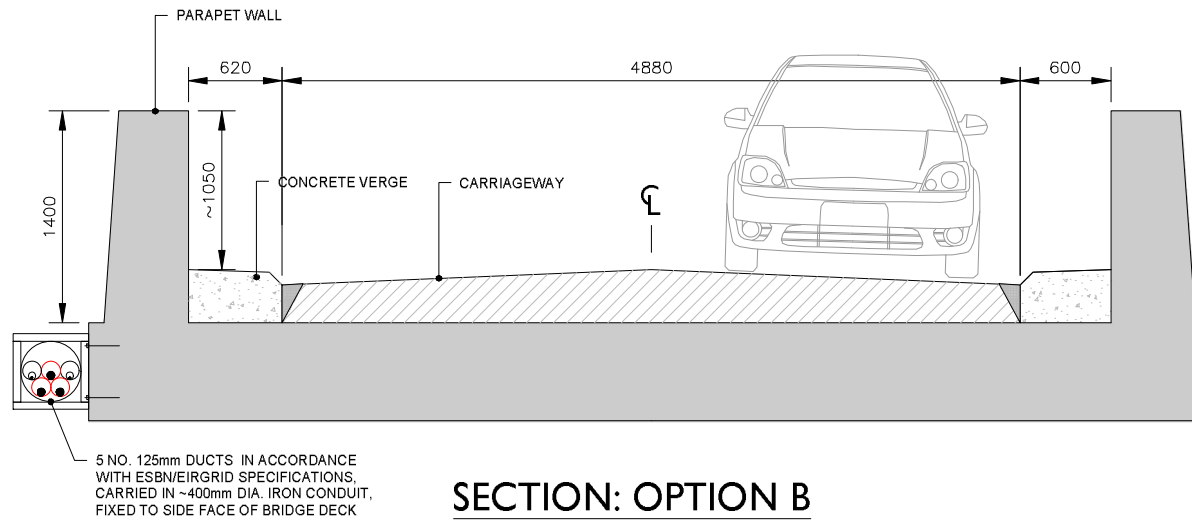




**SECTION: EXISTING BRIDGE**  
SCALE 1:50



**SECTION: OPTION A**  
SCALE 1:50



**SECTION: OPTION B**  
SCALE 1:50

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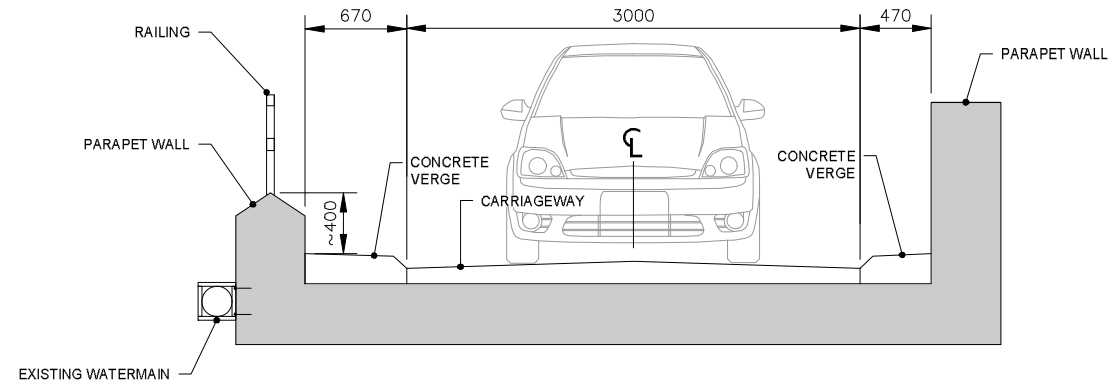
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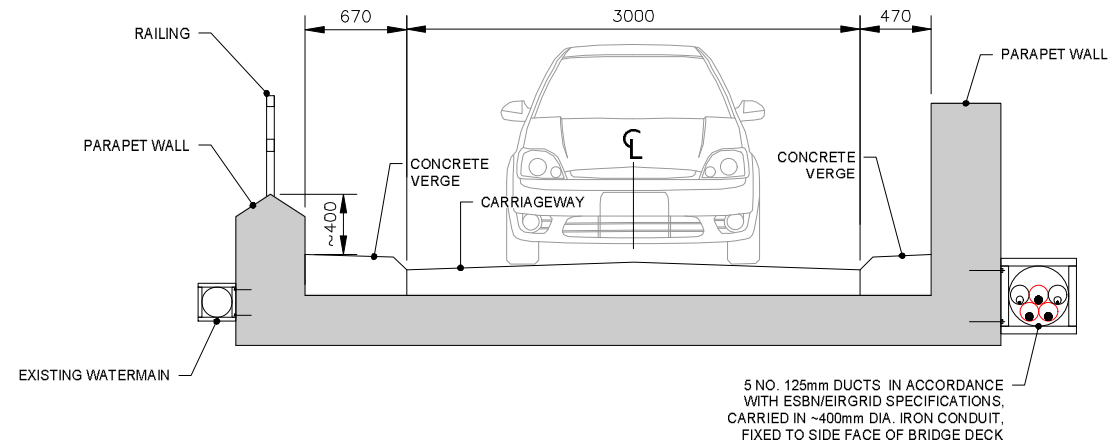
<b>ENGINEER</b> The Hyde Building, The Park, Carrickmines, Dublin 18, D18VC44, Ireland E. hello@ionicconsulting.ie T. +353 (0) 1 945 5091 W. www.ionicconsulting.ie Formerly known as WIND PROSPECT IRELAND		<b>CLIENT</b>  	
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<b>CHECKED AND APPROVED</b> J. SHANAHAN	<b>DATE</b> 09/12/2019	<b>STATUS</b>  	<b>DRAWING NUMBER</b> COLE d005.3.1

<b>PROJECT</b> COOLE WIND FARM GRID ROUTE		<b>REVISION</b>  
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**SECTION: EXISTING BRIDGE**  
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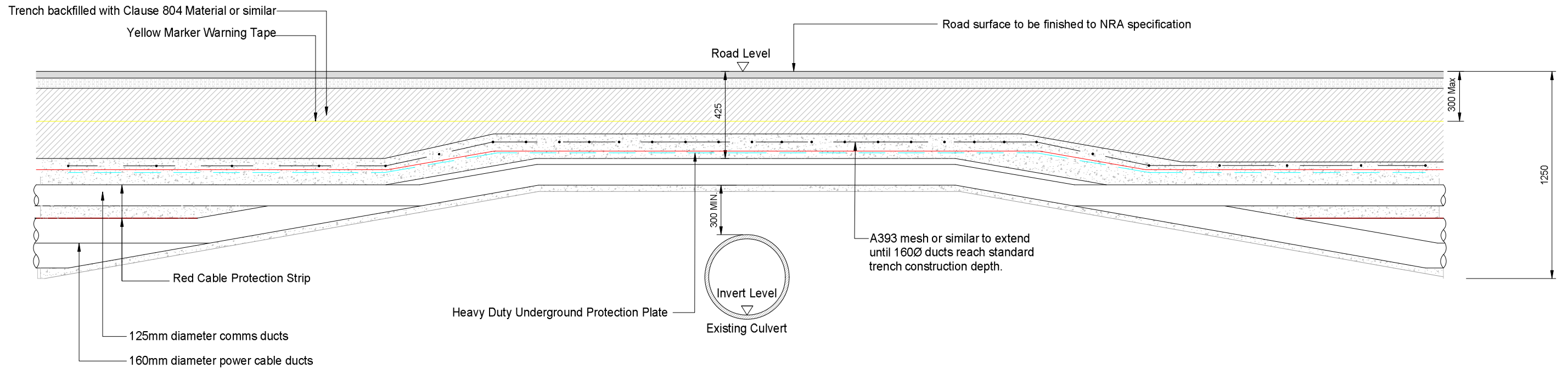


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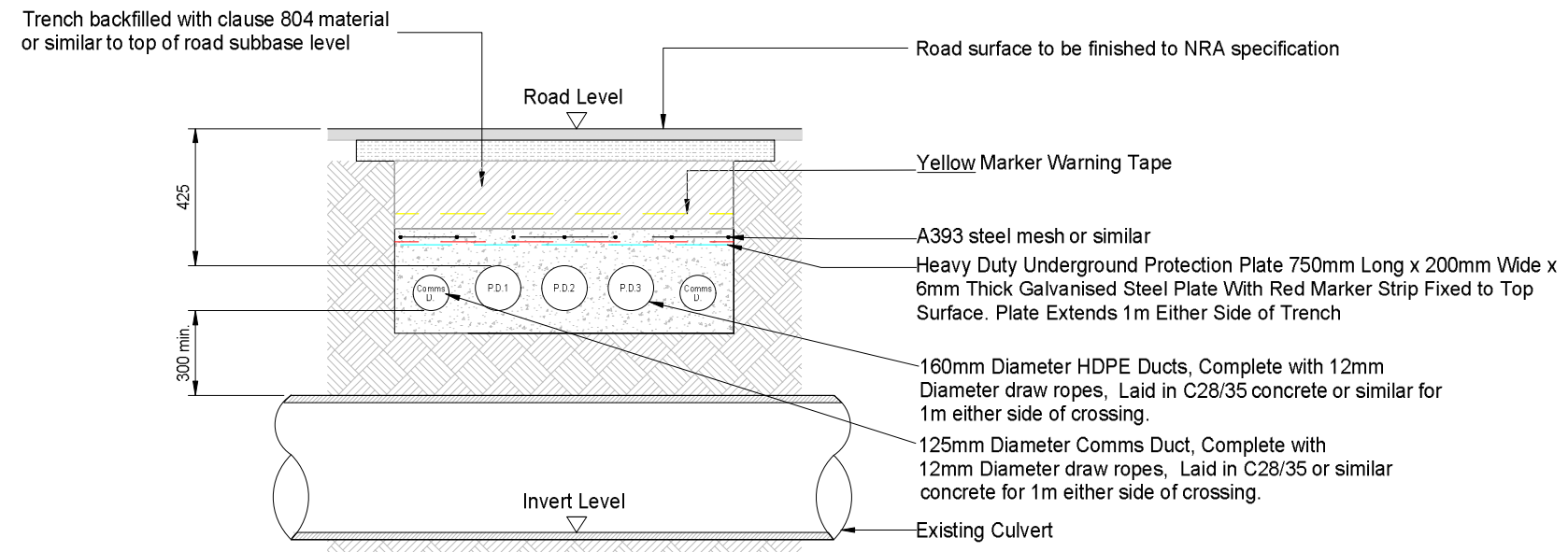
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DRAWN BY <b>M. BROWNE</b>					DATE 09/12/2019		PAPER SIZE A3		SCALE 1:50		
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**SECTION**  
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**SECTION**  
SCALE 1:25

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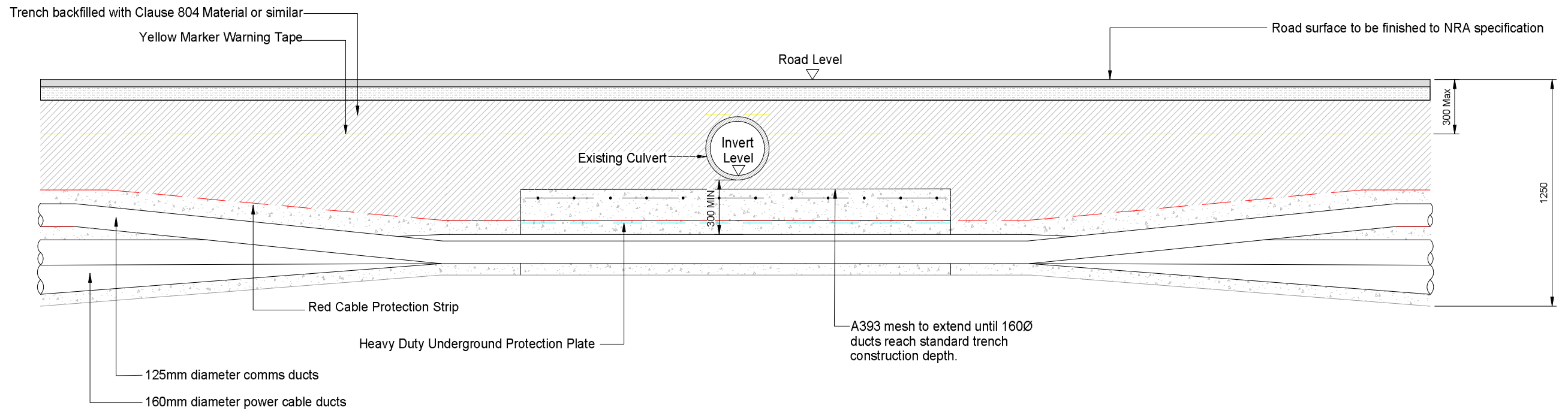
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J. SHANAHAN		19/01/2020	

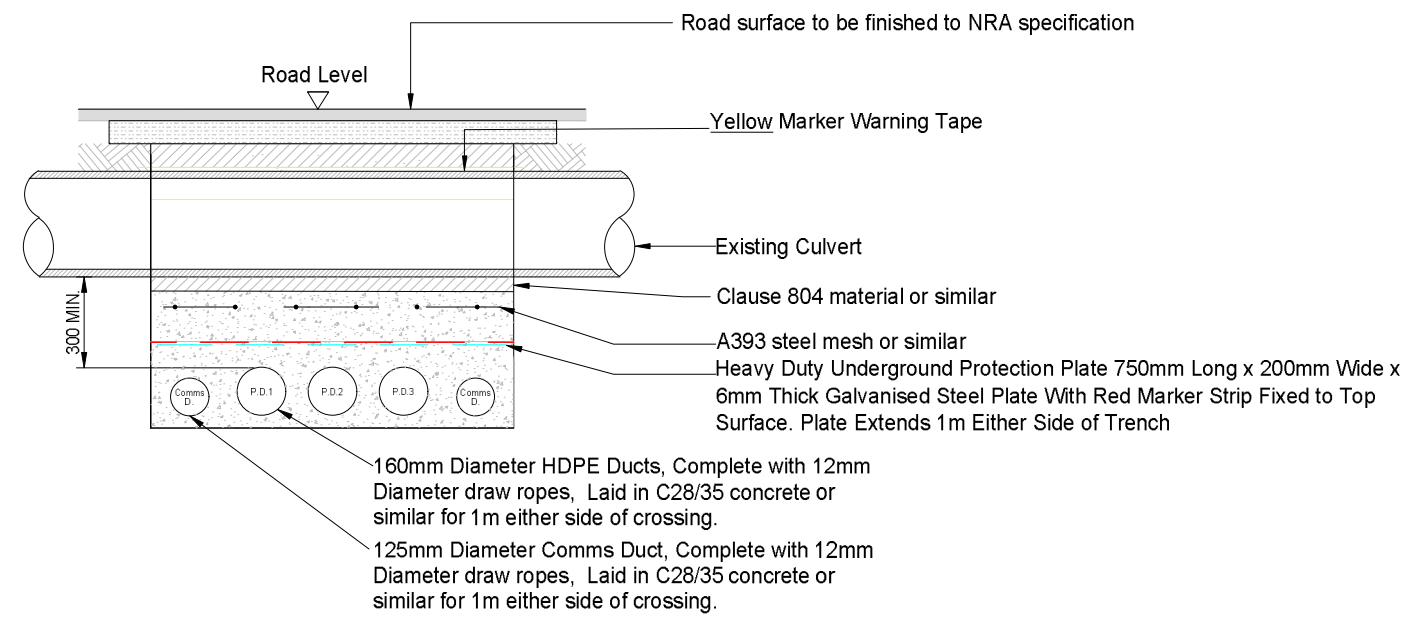
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COOLE WIND FARM GRID ROUTE		
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**SECTION**  
SCALE 1:25



**SECTION**  
SCALE 1:25

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PROJECT

PROJECT TITLE: COOLE WIND FARM GRID ROUTE

REVISION: A

DRAWN BY: M. BROWNE

CHECKED AND APPROVED: J. SHANAHAN

DATE: 19/01/2020

DATE: 19/01/2020

PAPER SIZE: A3

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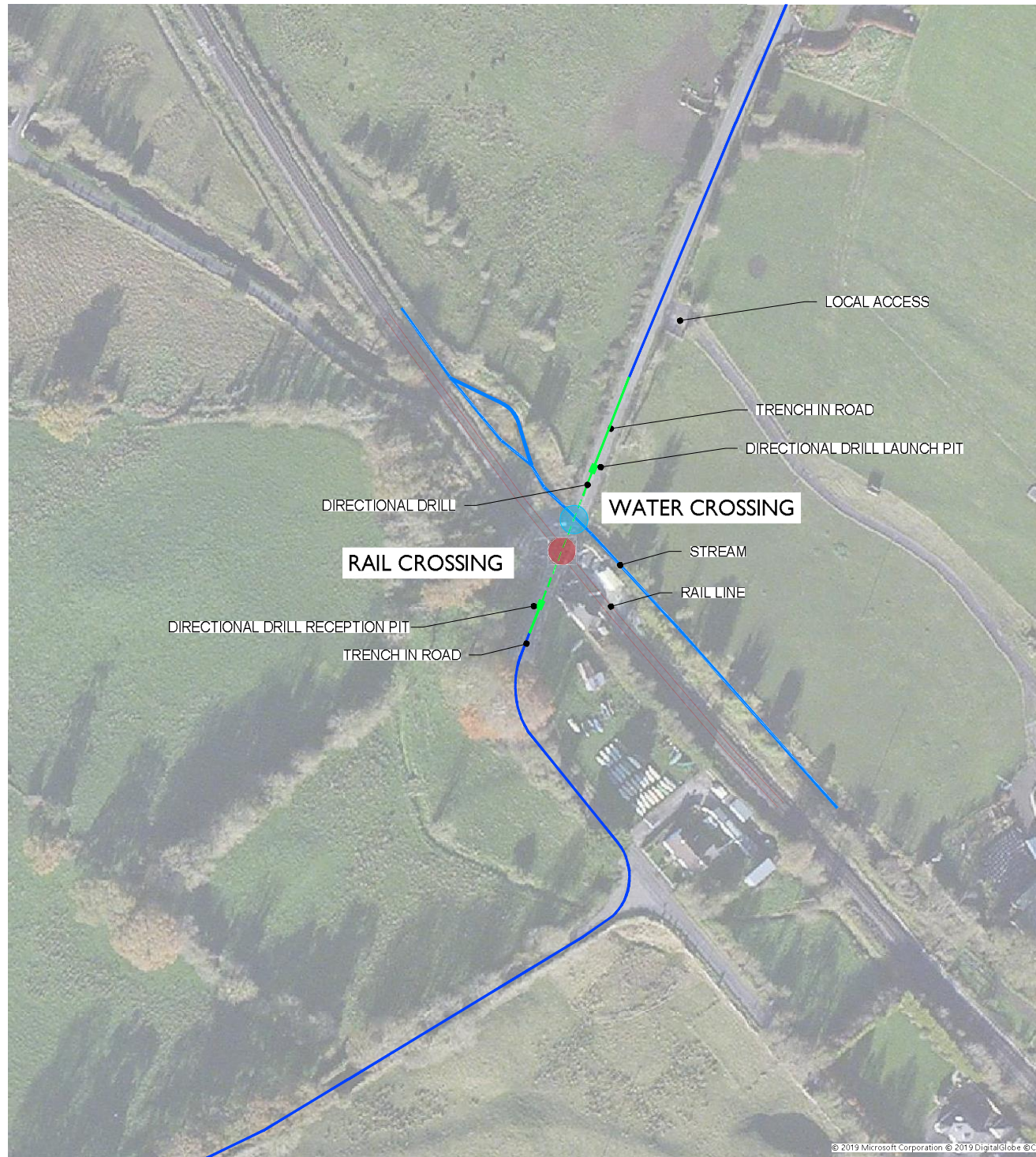
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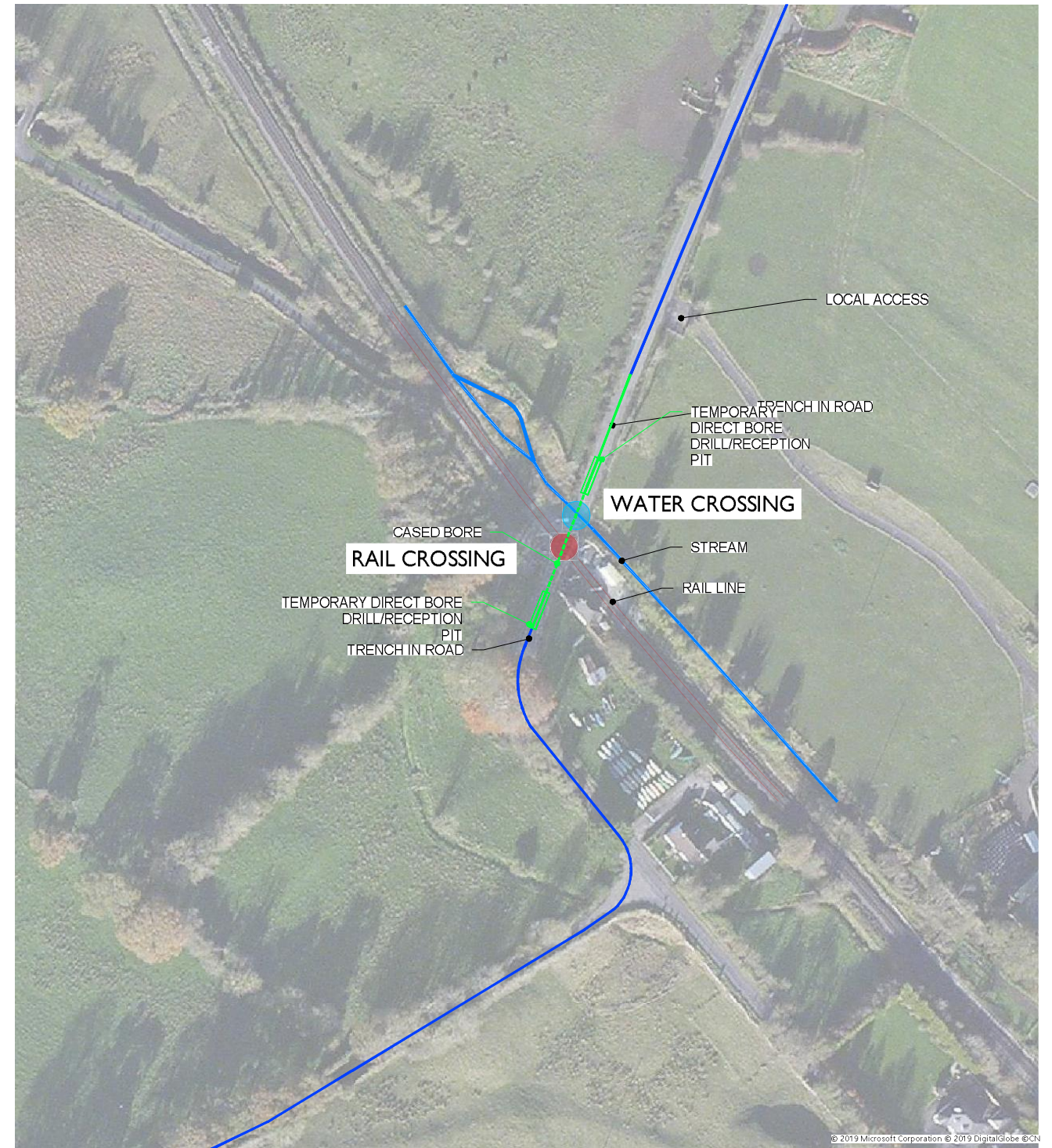









OPTION 1 DIRECTIONAL DRILL - ILLUSTRATIVE PLAN AT RAIL CROSSING  
Scale 1:50



OPTION 2 CASED BORE - ILLUSTRATIVE PLAN AT RAIL CROSSING  
Scale 1:50

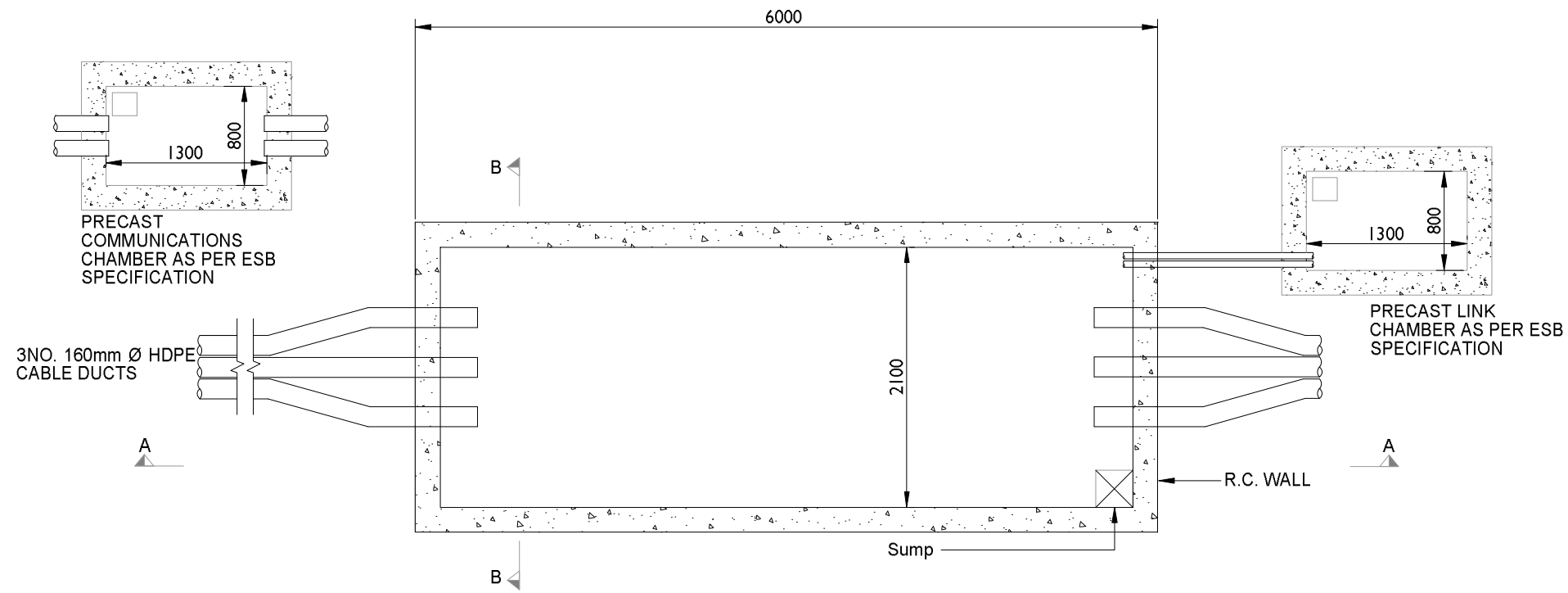
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DRAWN BY M. BROWNE		DATE 16/01/2020		PAPER SIZE A3		SCALE 1:400		TITLE RAILWAY CROSSING ILLUSTRATIVE OPTIONS		A	
CHECKED AND APPROVED J. SHANAHAN		DATE 16/01/2020		STATUS  		DRAWING NUMBER COLE d005.5.1		 			
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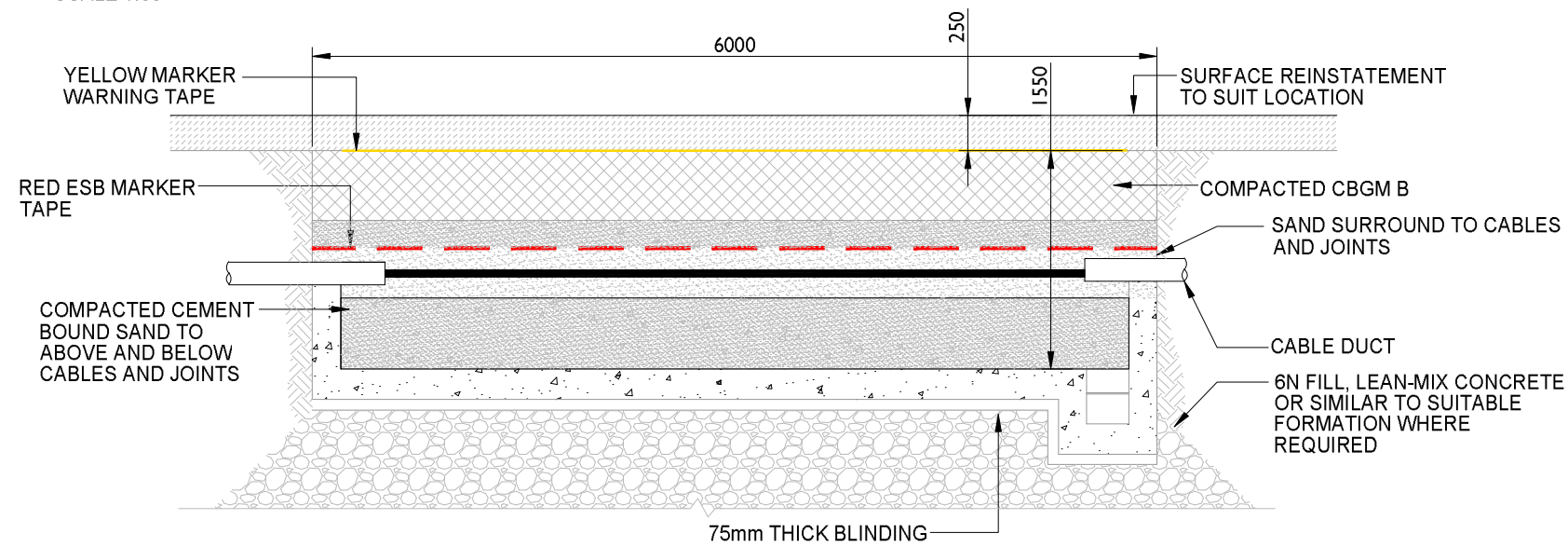






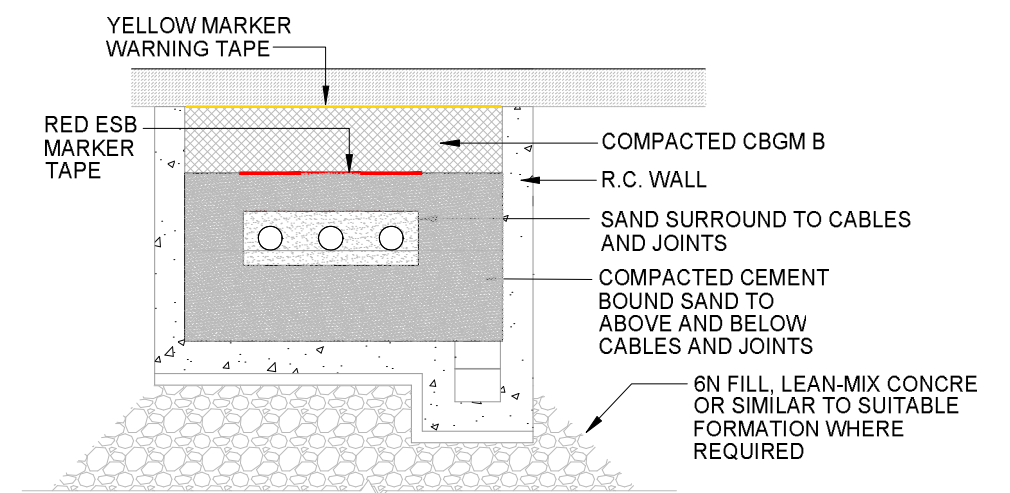
PLAN OF TYPICAL JOINT BAY WITH LINK & COMMUNICATIONS CHAMBERS

SCALE 1:50



TYPICAL SECTION A-A: PERMANENT REINSTATEMENT WORKS

SCALE 1:50



TYPICAL SECTION B-B: PERMANENT REINSTATEMENT WORKS

SCALE 1:50

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PROJECT

PROJECT TITLE: COOLE WIND FARM GRID ROUTE

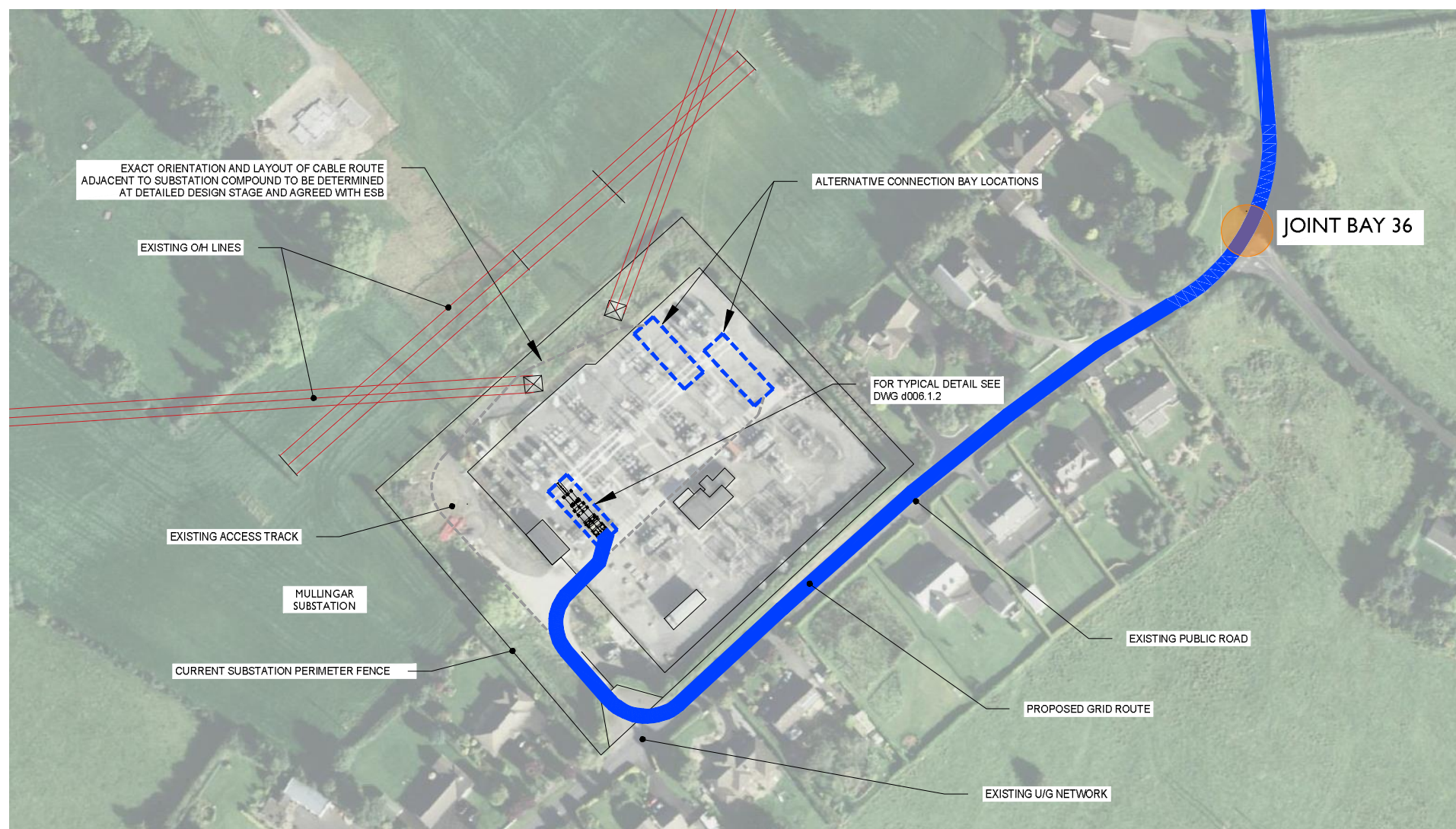
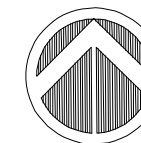
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REVISION: A

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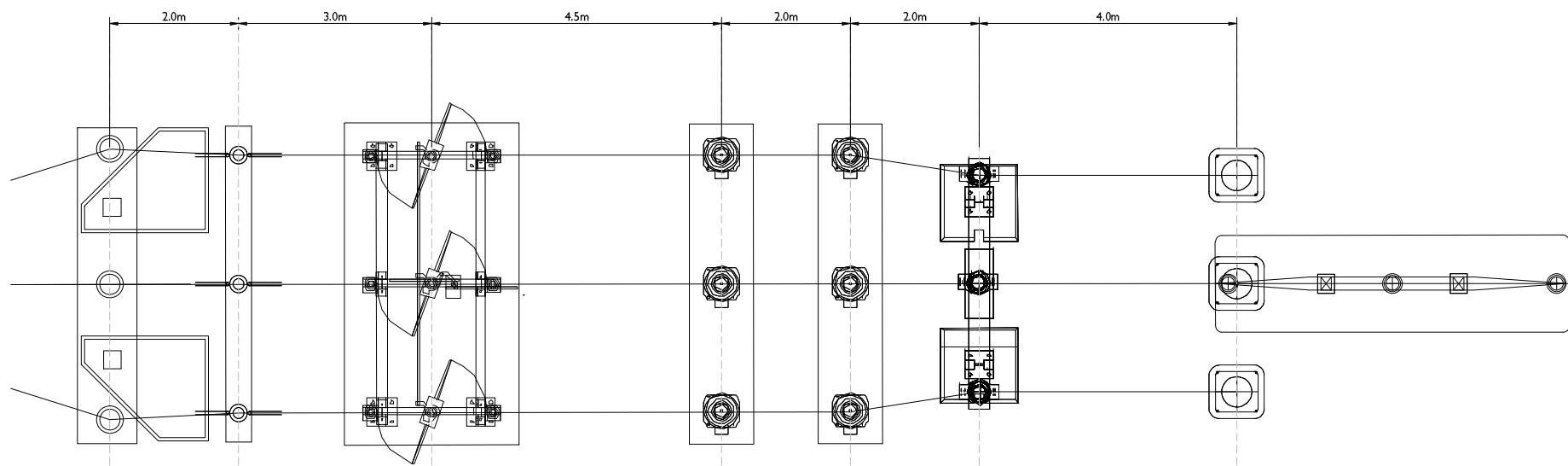


MULLINGAR SUBSTATION - ILLUSTRATIVE PLAN  
Scale 1:400

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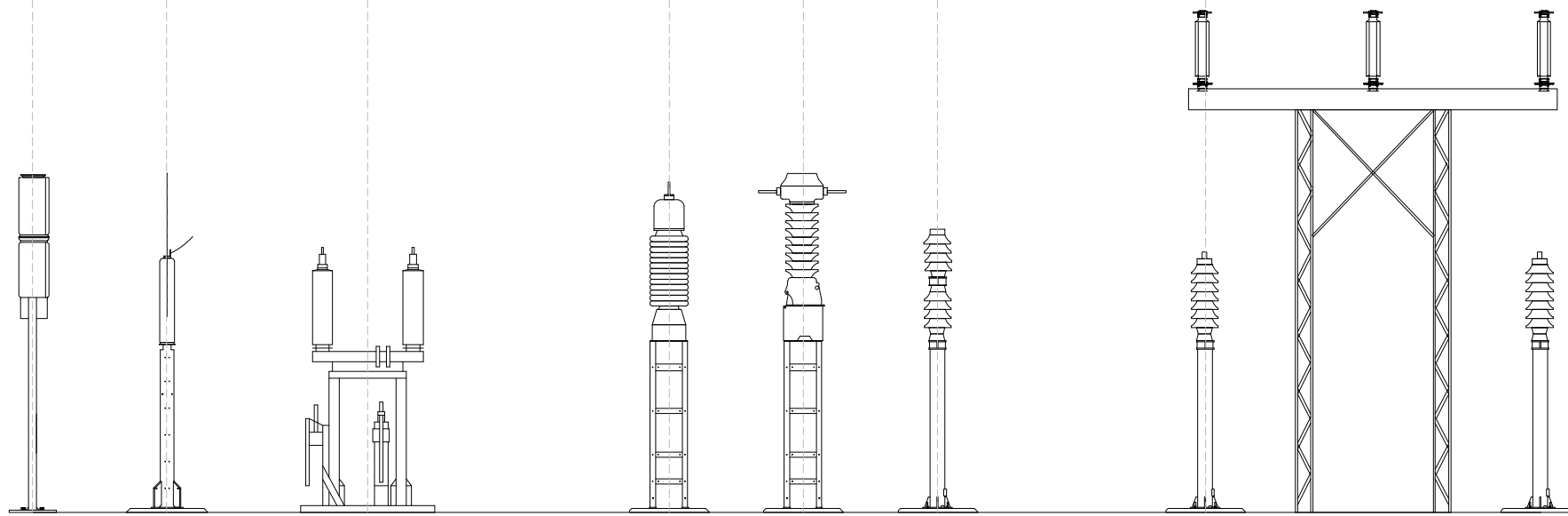




MULLINGAR SUBSTATION - EXTENSION EQUIPMENT PLAN  
SCALE 1:200



MULLINGAR SUBSTATION - EXTENSION EQUIPMENT LOCATION  
SCALE 1:1000



MULLINGAR SUBSTATION - EXTENSION EQUIPMENT ELEVATIONS  
SCALE 1:2000

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