

# Norfolk Vanguard Offshore Wind Farm

# Appendix 20.4

## Detailed Watercourse Crossing Schedule

## Environmental Statement

### Volume 3 - Appendices

Applicant: Norfolk Vanguard Limited  
Document Reference: 6.2.20.4  
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Pursuant to: APFP Regulation 5(2)(a)

Date: June 2018  
Revision: Version 1  
Author: Royal HaskoningDHV

*Photo: Kentish Flats Offshore Wind Farm*



# Environmental Impact Assessment Environmental Statement

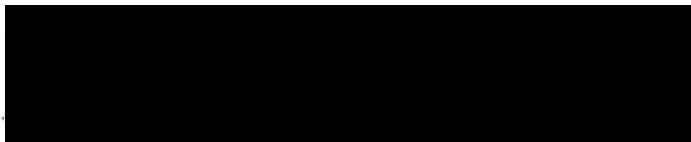
Document Reference: PB4476-005-0204

June 2018

For and on behalf of Norfolk Vanguard Limited

Approved by: Ruari Lean, Rebecca Sherwood

Signed:



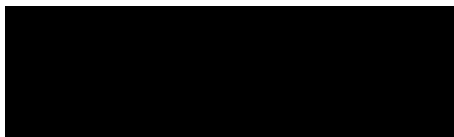
Date: 8<sup>th</sup> June 2018

For and on behalf of Royal HaskoningDHV

Drafted by: Ian Dennis

Approved by: Amy Harrower

Signed:



Date: 25<sup>th</sup> May 2018



Date	Issue No.	Remarks / Reason for Issue	Author	Checked	Approved
03/05/18	01D	First draft for Norfolk Vanguard Limited review	ID	ST	AH
25/05/18	01F	Final for ES submission	ID	ST	AH

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## 20 DETAILED WATERCOURSE CROSSING SCHEDULE

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### 20.1 Introduction

1. This appendix details the watercourse crossing schedule with regards to the onshore cable route crossings.
2. The location of each crossing is provided in Table 20.1 and shown on the subsequent figures.

**Table 20.1 Detailed watercourse crossing schedule**

ID	Method	Chainage (km)	Watercourse type	Figure reference	Watercourse	Sub-catchment	Catchment	WFD water body
10(3)(1)	Open cut	5.148	Ordinary watercourse	Sheet 3	Hundred Stream	East Ruston Stream	Ant	East Ruston Stream
10(3)(2)	Open cut	5.159	IDB drain	Sheet 3	Hundred Stream	East Ruston Stream	Ant	East Ruston Stream
23(11)(1)	Trenchless	10.418	IDB drain	Sheet 5	N Walsham & Dilham Canal	N Walsham & Dilham Canal	Ant	N Walsham & Dilham Canal
23(11)(5)	Trenchless	10.435	Ordinary watercourse	Sheet 5	N Walsham & Dilham Canal	N Walsham & Dilham Canal	Ant	N Walsham & Dilham Canal
<b>23(11)(7)</b>	<b>Trenchless</b>	<b>10.441</b>	<b>Main river</b>	<b>Sheet 5</b>	N Walsham & Dilham Canal	N Walsham & Dilham Canal	Ant	N Walsham & Dilham Canal
23(11)(11)	Trenchless / Open Cut	10.561	Ordinary watercourse	Sheet 5	N Walsham & Dilham Canal	N Walsham & Dilham Canal	Ant	N Walsham & Dilham Canal
26(1)(1)	Open cut	12.285	Ordinary watercourse	Sheet 6	Unnamed (Brick Kiln Farm)	N Walsham & Dilham Canal	Ant	N Walsham & Dilham Canal
27(4)(3)	Open cut	12.738	Ordinary watercourse	Sheet 6	Unnamed (Grammar School Farm)	N Walsham & Dilham Canal	Ant	N Walsham & Dilham Canal
32(3)(3)	Open cut	14.767	Ordinary watercourse	Sheet 7	Unnamed (Cooke's Bottoms)	King's Beck	Bure	King's Beck
34(2)(2)	Open cut	16.024	IDB drain	Sheet 7	Suffield Beck	King's Beck	Bure	King's Beck
37(11)(1)	Trenchless	17.337	Ordinary watercourse	Sheet 8	Blackwater Beck	King's Beck	Bure	King's Beck
37(11)(4)	Trenchless	17.424	Ordinary watercourse	Sheet 8	Blackwater Beck	King's Beck	Bure	King's Beck
37(11)(7)	Trenchless	17.45	Ordinary watercourse	Sheet 8	Blackwater Beck	King's Beck	Bure	King's Beck
37(11)(9)	Trenchless	17.455	IDB drain	Sheet 8	Blackwater Beck	King's Beck	Bure	King's Beck
37(11)(11)	Trenchless	17.474	Ordinary watercourse	Sheet 8	Blackwater Beck	King's Beck	Bure	King's Beck

ID	Method	Chainage (km)	Watercourse type	Figure reference	Watercourse	Sub-catchment	Catchment	WFD water body
40(6)(1)	Open cut	18.388	Ordinary watercourse	Sheet 8	Unnamed (Colby Hall)	King's Beck	Bure	King's Beck
40(6)(3)	Open cut	18.429	Ordinary watercourse	Sheet 8	Unnamed (Colby Hall)	King's Beck	Bure	King's Beck
46(7)(1)	Trenchless	21.106	Ordinary watercourse	Sheet 9	River Bure	River Bure	Bure	Bure (Scarrow-Horstead)
<b>46(7)(4)</b>	<b>Trenchless</b>	<b>21.175</b>	<b>Main river</b>	<b>Sheet 9</b>	River Bure	River Bure	Bure	Bure (Scarrow-Horstead)
51(11)(4)	Open cut	23.985	Ordinary watercourse	Sheet 10	Unnamed (Silvergate)	River Bure	Bure	Bure (Scarrow-Horstead)
51(11)(7)	Open cut	24.001	IDB drain	Sheet 10	Unnamed (Silvergate)	River Bure	Bure	Bure (Scarrow-Horstead)
51(11)(8)	Open cut	24.016	Ordinary watercourse	Sheet 10	Unnamed (Silvergate)	River Bure	Bure	Bure (Scarrow-Horstead)
51(11)(9)	Open cut	24.026	Ordinary watercourse	Sheet 10	Unnamed (Silvergate)	River Bure	Bure	Bure (Scarrow-Horstead)
51(11)(10)	Open cut	24.047	Ordinary watercourse	Sheet 10	Unnamed (Silvergate)	River Bure	Bure	Bure (Scarrow-Horstead)
58(2)(1)	Open cut	29.387	IDB drain	Sheet 12	Unnamed (Southgate)	Blackwater	Wensum	Blackwater Drain (Wensum)
61(8)(3)	Open cut	30.398	Ordinary watercourse	Sheet 13	Booton Watercourse	Blackwater	Wensum	Blackwater Drain (Wensum)
61(8)(4)	Open cut	30.467	IDB drain	Sheet 13	Booton Watercourse	Blackwater	Wensum	Blackwater Drain (Wensum)
64(2)(1)	Open cut	31.108	Ordinary watercourse	Sheet 13	Unnamed (Bath Plantation)	Blackwater	Wensum	Blackwater Drain (Wensum)
64(2)(2)	Open cut	31.413	Ordinary watercourse	Sheet 13	Unnamed (Bath Plantation)	Blackwater	Wensum	Blackwater Drain (Wensum)
68(3)(1)	Open cut	33.427	Ordinary watercourse	Sheet 14	Reephams Stream (east)	Blackwater	Wensum	Blackwater Drain (Wensum)

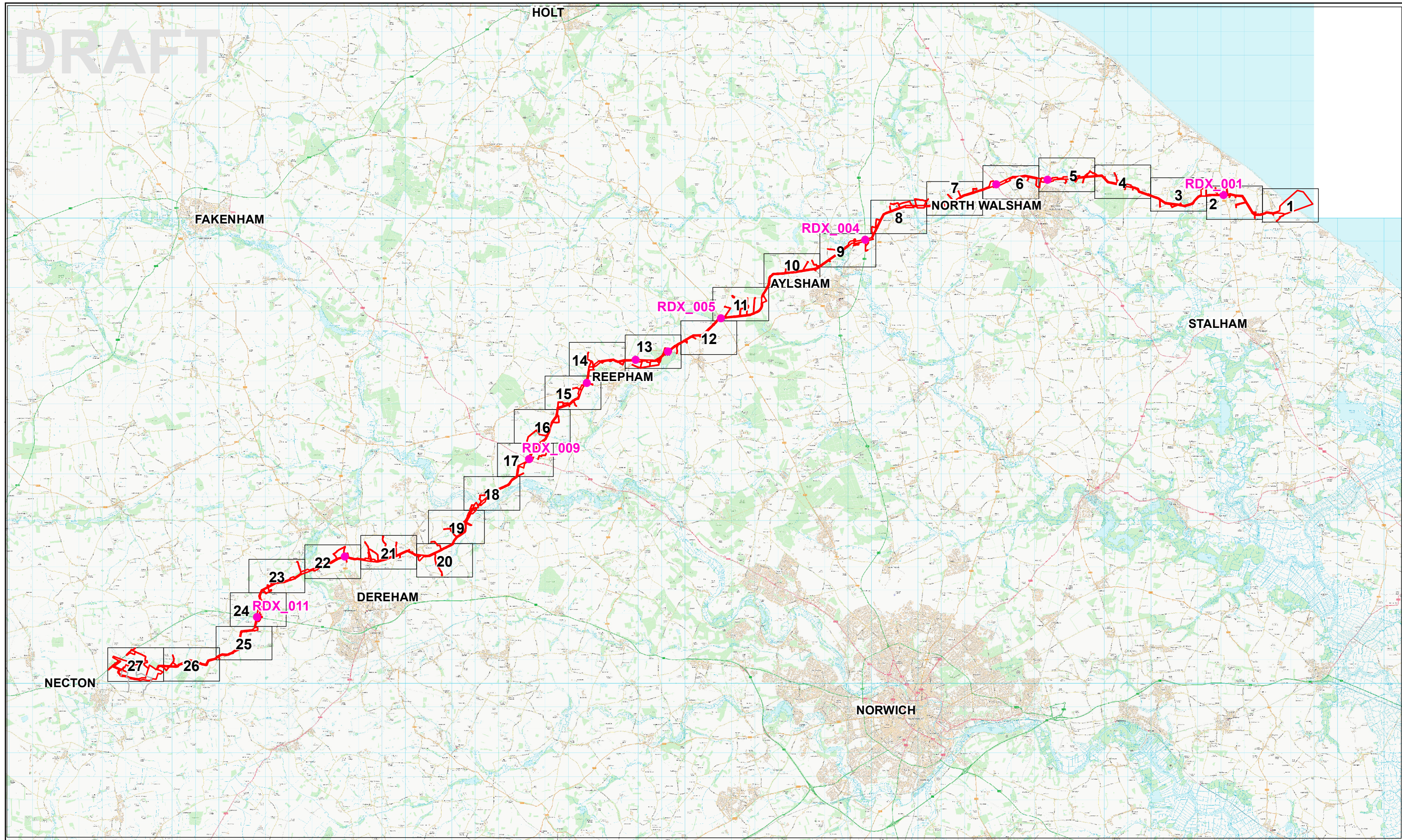
ID	Method	Chainage (km)	Watercourse type	Figure reference	Watercourse	Sub-catchment	Catchment	WFD water body
70(3)(3)	Trenchless	34.222	IDB drain	Sheet 14	Unnamed (Kerdiston)	Blackwater	Wensum	Blackwater Drain (Wensum)
71(4)(2)	Open cut	34.72	IDB drain	Sheet 14	Reepham Stream (west)	Blackwater	Wensum	Blackwater Drain (Wensum)
75(2)(1)	Open cut	36.892	Ordinary watercourse	Sheet 16	Unnamed (Jordan Green)	Blackwater	Wensum	Blackwater Drain (Wensum)
<b>76(4)(2)</b>	<b>Open cut</b>	<b>38.168</b>	<b>Main river</b>	<b>Sheet 16</b>	Unnamed (Sparham House)	Blackwater	Wensum	Blackwater Drain (Wensum)
76(4)(4)	Open cut	38.239	Ordinary watercourse	Sheet 16	Unnamed (Sparham House)	Blackwater	Wensum	Blackwater Drain (Wensum)
82(7)(3)	Trenchless	42.484	IDB drain	Sheet 18	River Wensum	River Wensum	Wensum	Wensum us Norwich
<b>82(7)(6)</b>	<b>Trenchless</b>	<b>42.526</b>	<b>Main river</b>	<b>Sheet 18</b>	River Wensum	River Wensum	Wensum	Wensum us Norwich
83(7)(3)	Trenchless	42.576	IDB drain	Sheet 18	River Wensum	River Wensum	Wensum	Wensum us Norwich
83(7)(5)	Trenchless	42.665	IDB drain	Sheet 18	Penny Spot Beck	Penny Spot Beck	Wensum	Wensum us Norwich
84(4)(1)	Trenchless	42.763	Ordinary watercourse	Sheet 18	Penny Spot Beck	Penny Spot Beck	Wensum	Wensum us Norwich
86(2)(1)	Open cut	43.835	Ordinary watercourse	Sheet 19	Penny Spot Beck	Penny Spot Beck	Wensum	Wensum us Norwich
87(3)(1)	Open cut	44.778	Ordinary watercourse	Sheet 20	Unnamed (Frog's Hall)	Penny Spot Beck	Wensum	Wensum us Norwich
87(3)(3)	Open cut	44.977	Ordinary watercourse	Sheet 20	Unnamed (Frog's Hall)	Penny Spot Beck	Wensum	Wensum us Norwich
89(3)(2)	Open cut	46.109	Ordinary watercourse	Sheet 20	Unnamed (Frog's Hall)	Penny Spot Beck	Wensum	Wensum us Norwich
90(7)(6)	Open cut	46.522	Ordinary watercourse	Sheet 21	Unnamed (Frog's Hall)	Penny Spot Beck	Wensum	Wensum us Norwich

ID	Method	Chainage (km)	Watercourse type	Figure reference	Watercourse	Sub-catchment	Catchment	WFD water body
<b>98(7)(6)</b>	<b>Trenchless</b>	<b>51.2</b>	<b>Main river</b>	<b>Sheet 22</b>	Wendling Beck	Wendling Beck	Wensum	Wendling Beck
99(3)(1)	Trenchless / Open Cut	51.412	Ordinary watercourse	Sheet 23	Unnamed (Little Wood)	Wendling Beck	Wensum	Wendling Beck
100(3)(1)	Trenchless	51.875	Ordinary watercourse	Sheet 23	Unnamed (Little Wood)	Wendling Beck	Wensum	Wendling Beck
104(1)(1)	Open cut	53.364	Ordinary watercourse	Sheet 23	Unnamed (Bushy Common)	Wendling Beck	Wensum	Wendling Beck
<b>105(3)(1)</b>	<b>Trenchless</b>	<b>54.321</b>	<b>Main river</b>	<b>Sheet 24</b>	Wendling Beck	Wendling Beck	Wensum	Wendling Beck
109(1)(1)	Open cut	56.496	Ordinary watercourse	Sheet 25	Unnamed (Bradenham)	Wendling Beck	Wensum	Wendling Beck
110(1)(1)	Open cut	56.812	Ordinary watercourse	Sheet 25	Unnamed (Bradenham)	Wendling Beck	Wensum	Wendling Beck
114(2)(1)	Open cut	59.018	Ordinary watercourse	Sheet 26	Unnamed (Bradenham)	Wendling Beck	Wensum	Wendling Beck
117(1)(1)	Open cut	60.567	Ordinary watercourse	Sheet 27	Unnamed (Lodge Farm)	River Wissey	Wisse	Wisse - Upper
118(4)(1)	Open cut	60.942	Ordinary watercourse	Sheet 27	Unnamed (Lodge Farm)	River Wissey	Wisse	Wisse - Upper
118(4)(3)	Open cut	61.083	Ordinary watercourse	Sheet 27	Unnamed (Lodge Farm)	River Wissey	Wisse	Wisse - Upper
119(2)(1)	Open cut	61.438	Ordinary watercourse	Sheet 27	Upper Wissey	River Wissey	Wisse	Wisse - Upper

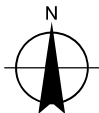
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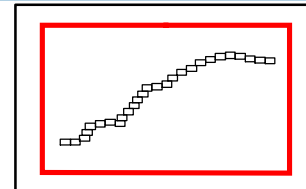
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● Major Road Crossing  
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## Onshore Cable Route Crossing Schedule

Job Number 66-10854  
Revision A  
Date 23 Mar 2018

Overview

Figure #

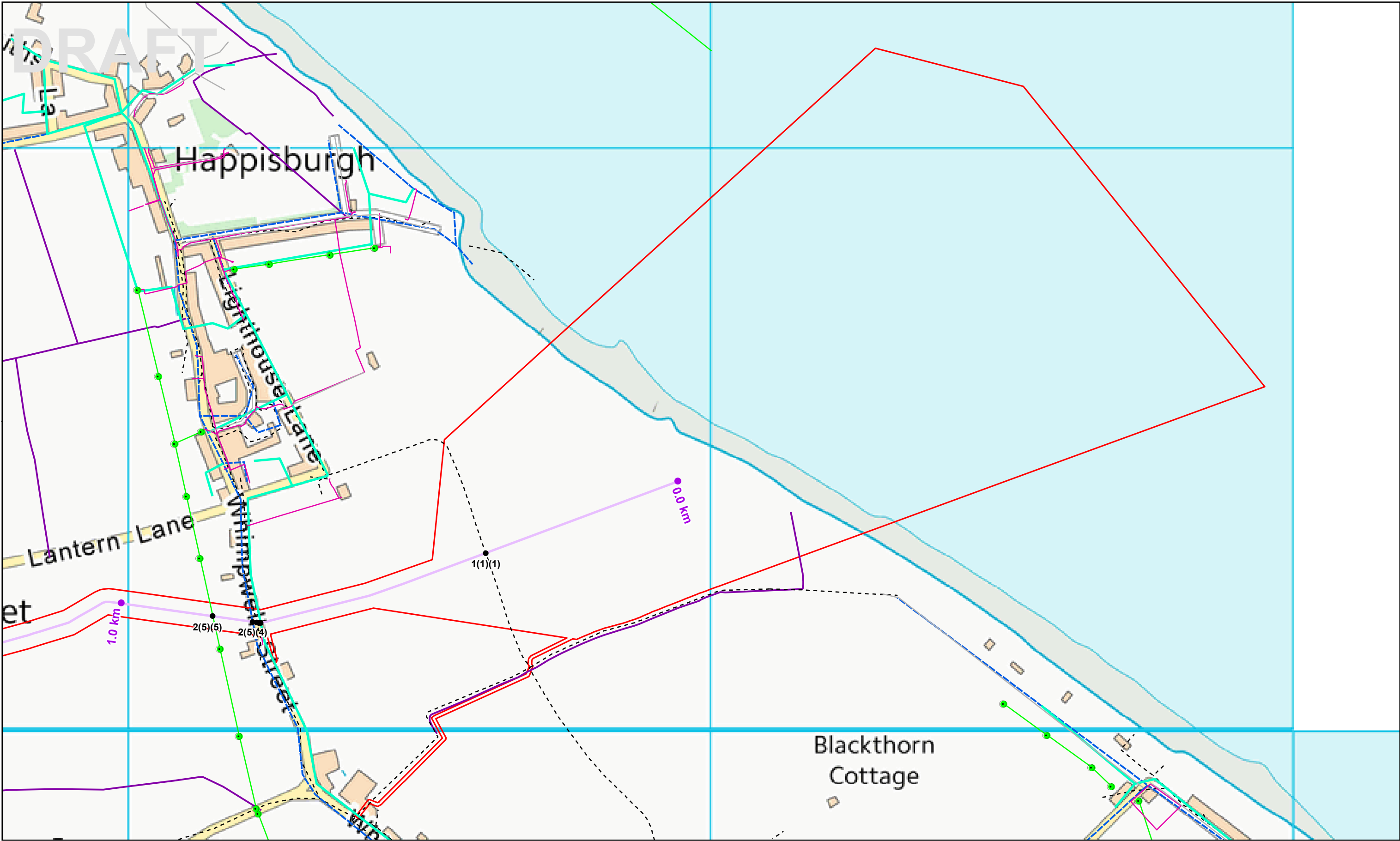
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LEGEND

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

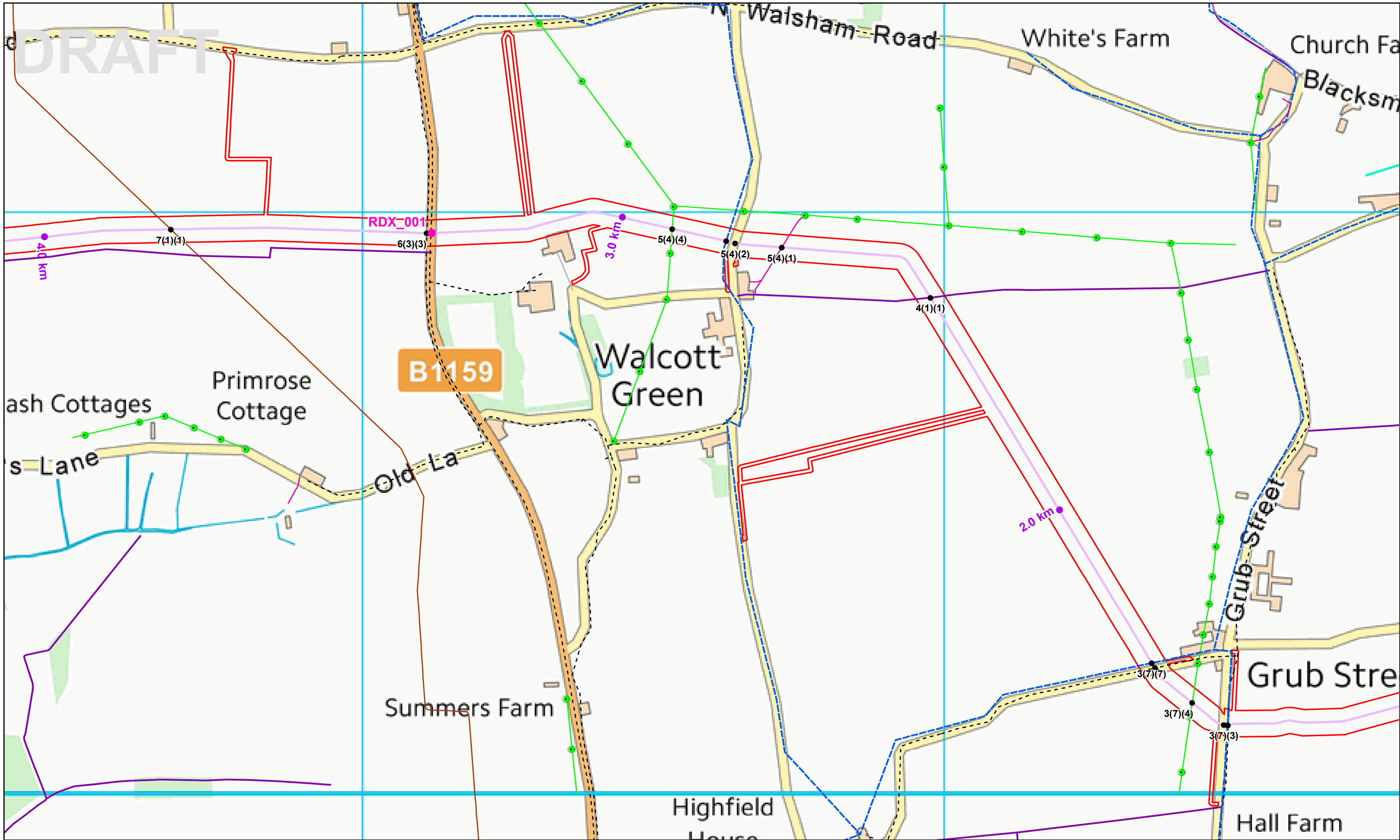
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Onshore Cable Route  
Crossing Schedule

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Sheet 1 of 27  
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

Project Corridor

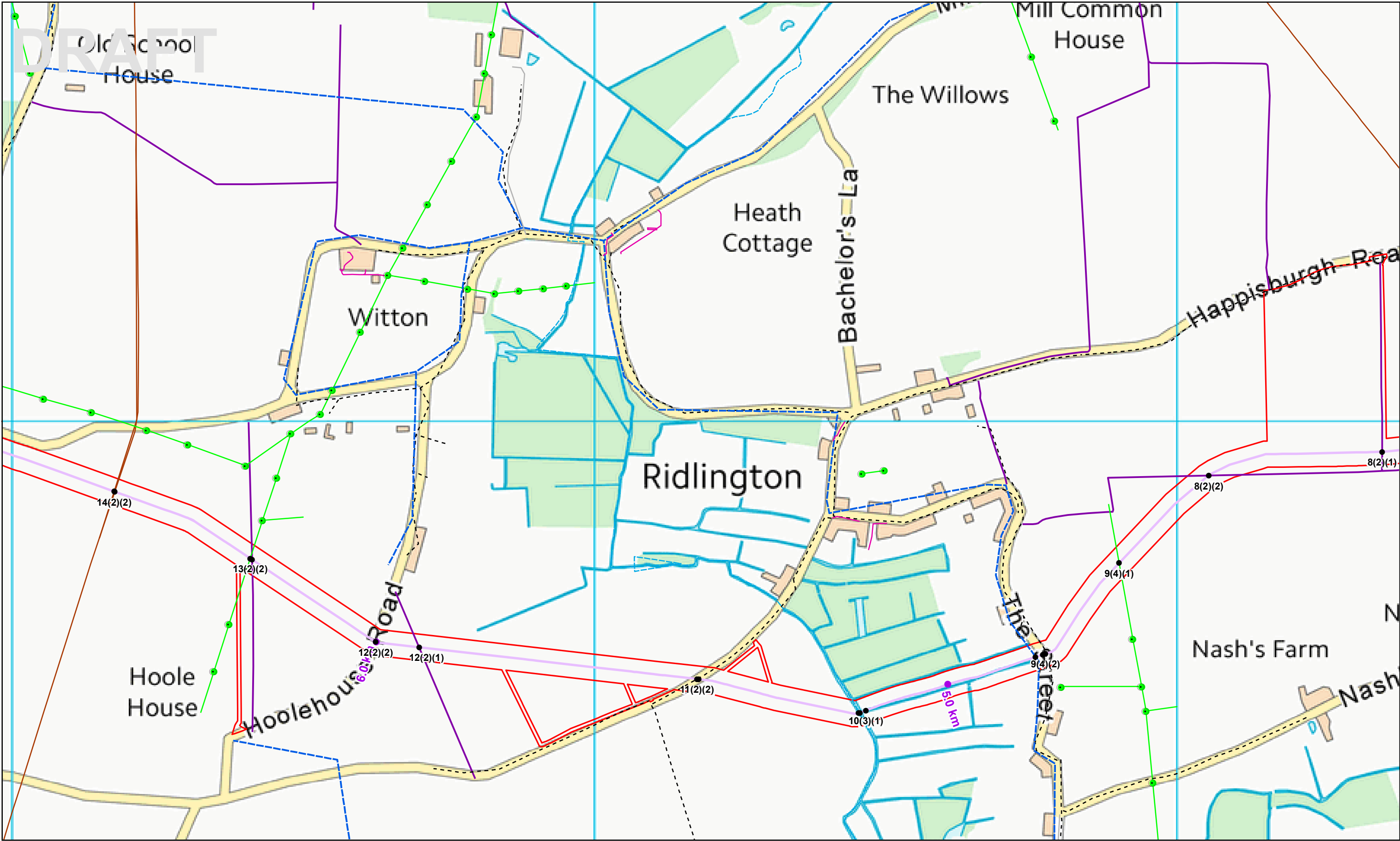
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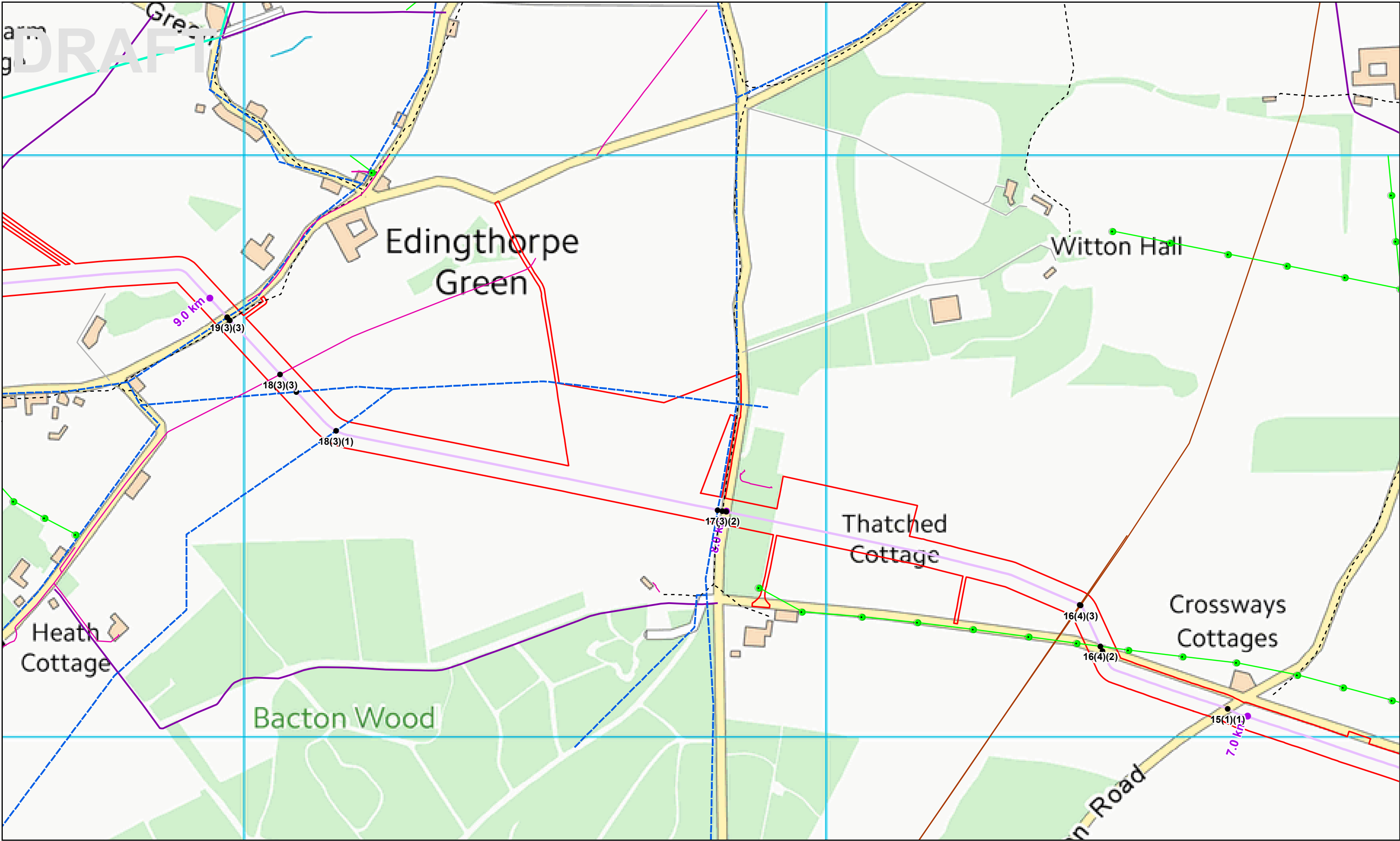
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**Figure #**







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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

Project Corridor

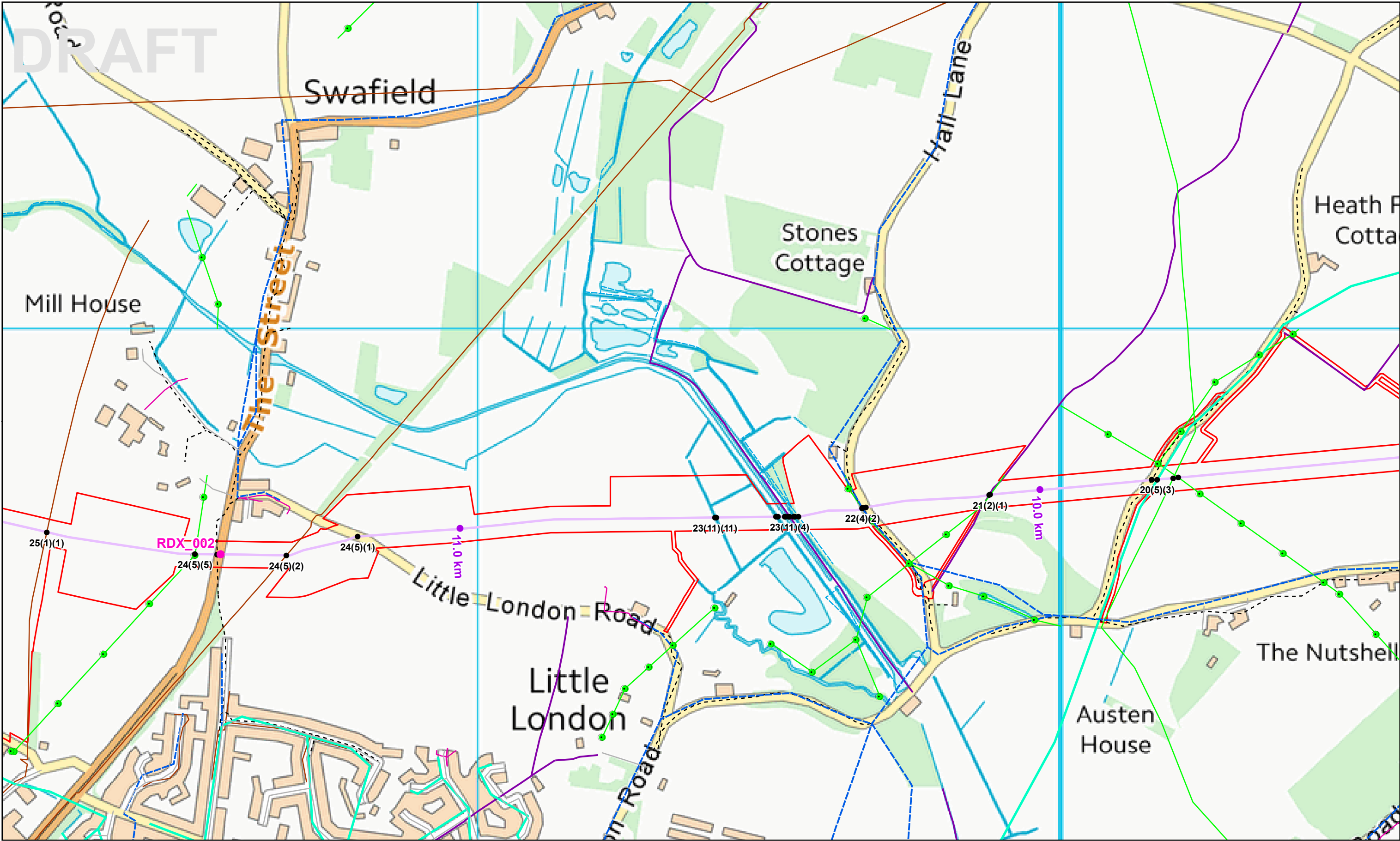
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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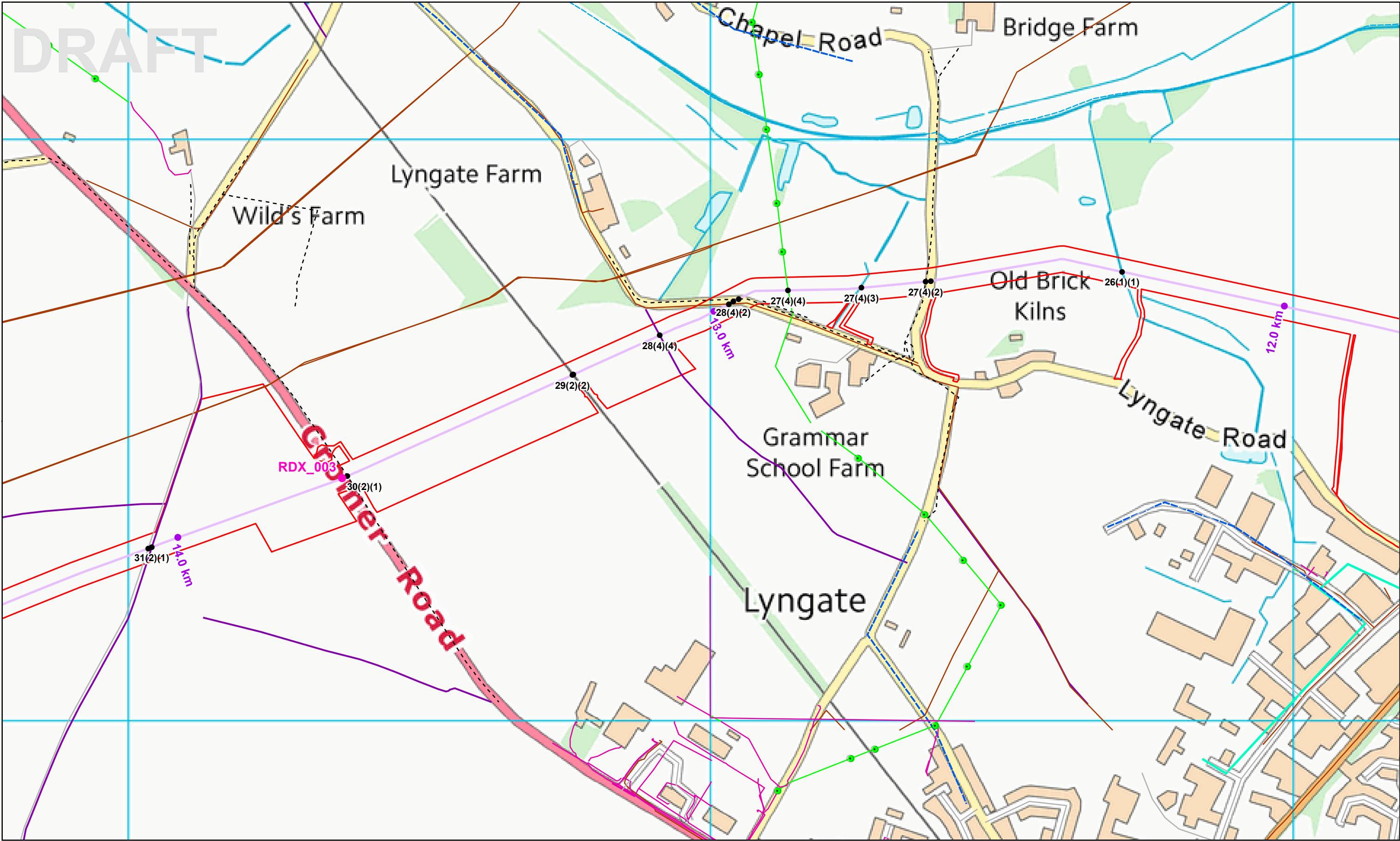
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**Figure #**





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LEGEND

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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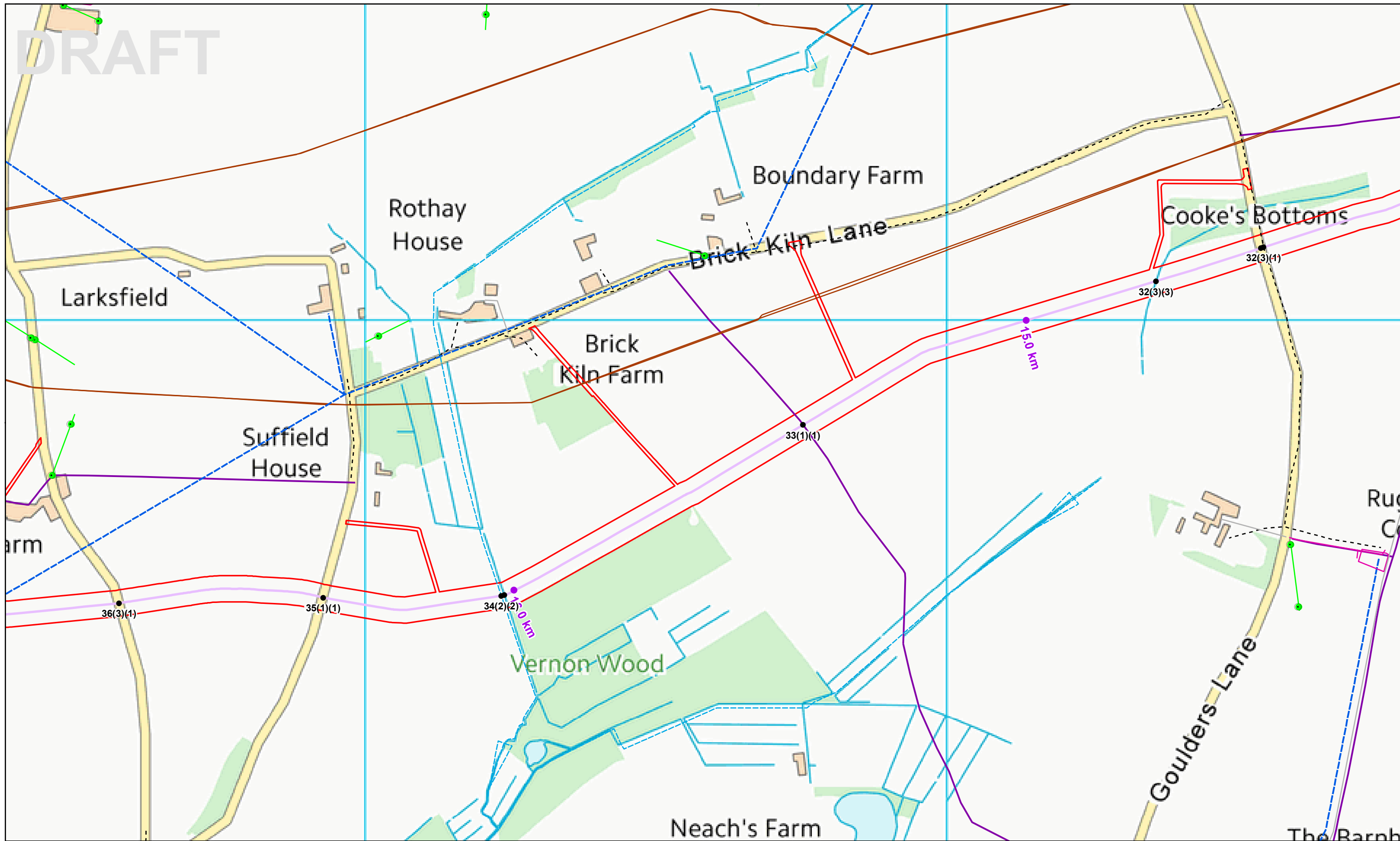
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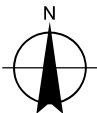
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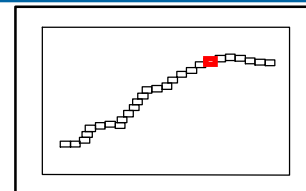
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#### LEGEND

- |                     |                     |                                    |
|---------------------|---------------------|------------------------------------|
| Pole                | Access Road/Track   | Indicative Centre Line             |
| Crossing            | Sewer               | Overhead Power Cable               |
| Major Road Crossing | Water Main          | Underground Power Cable            |
| Drain               | Telecommunication   | Dudgeon Cable(2016/01/16)          |
| Gas Pipe            | Public Right of Way | Sheringham Shoal Underground Cable |

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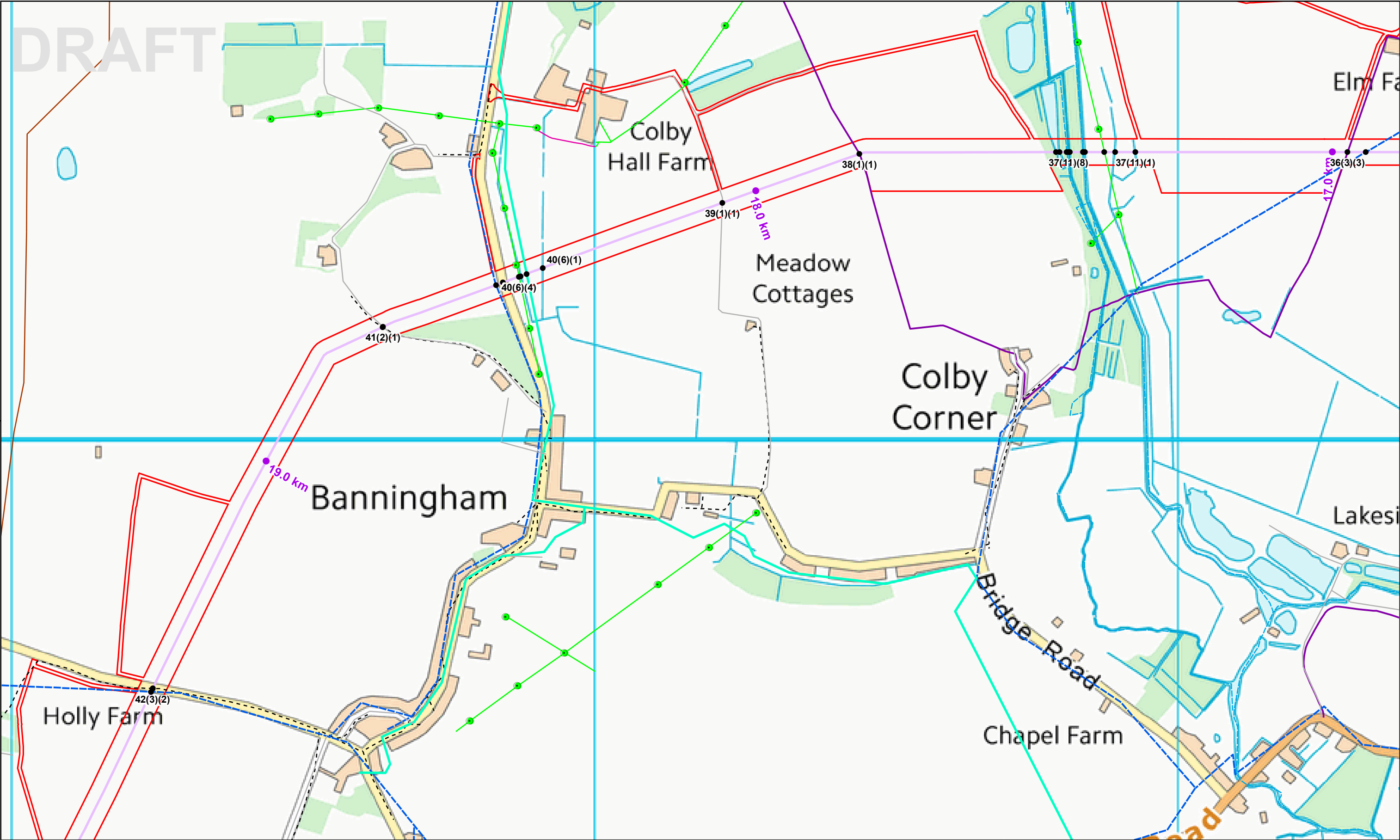
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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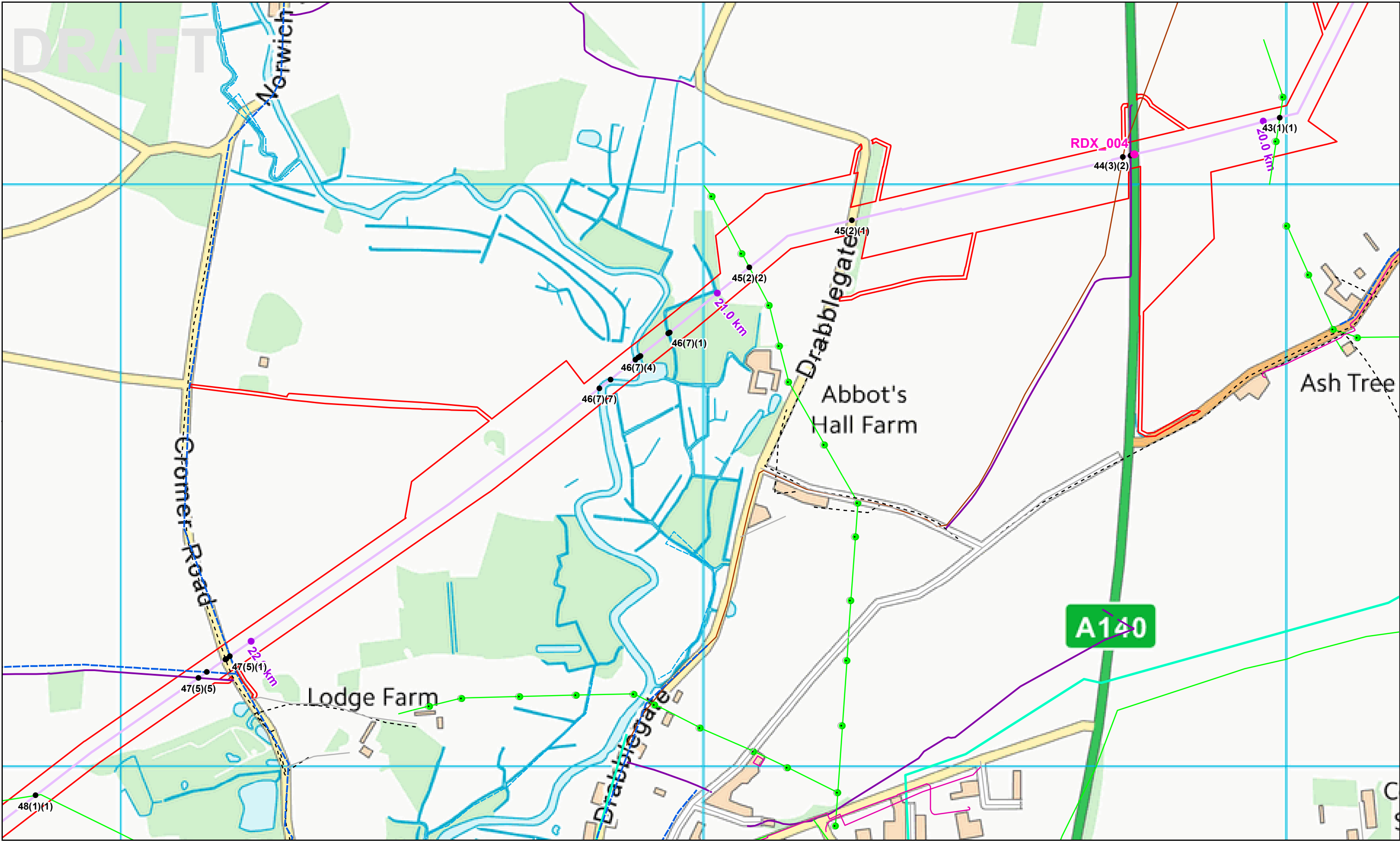
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**Figure #**



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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
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Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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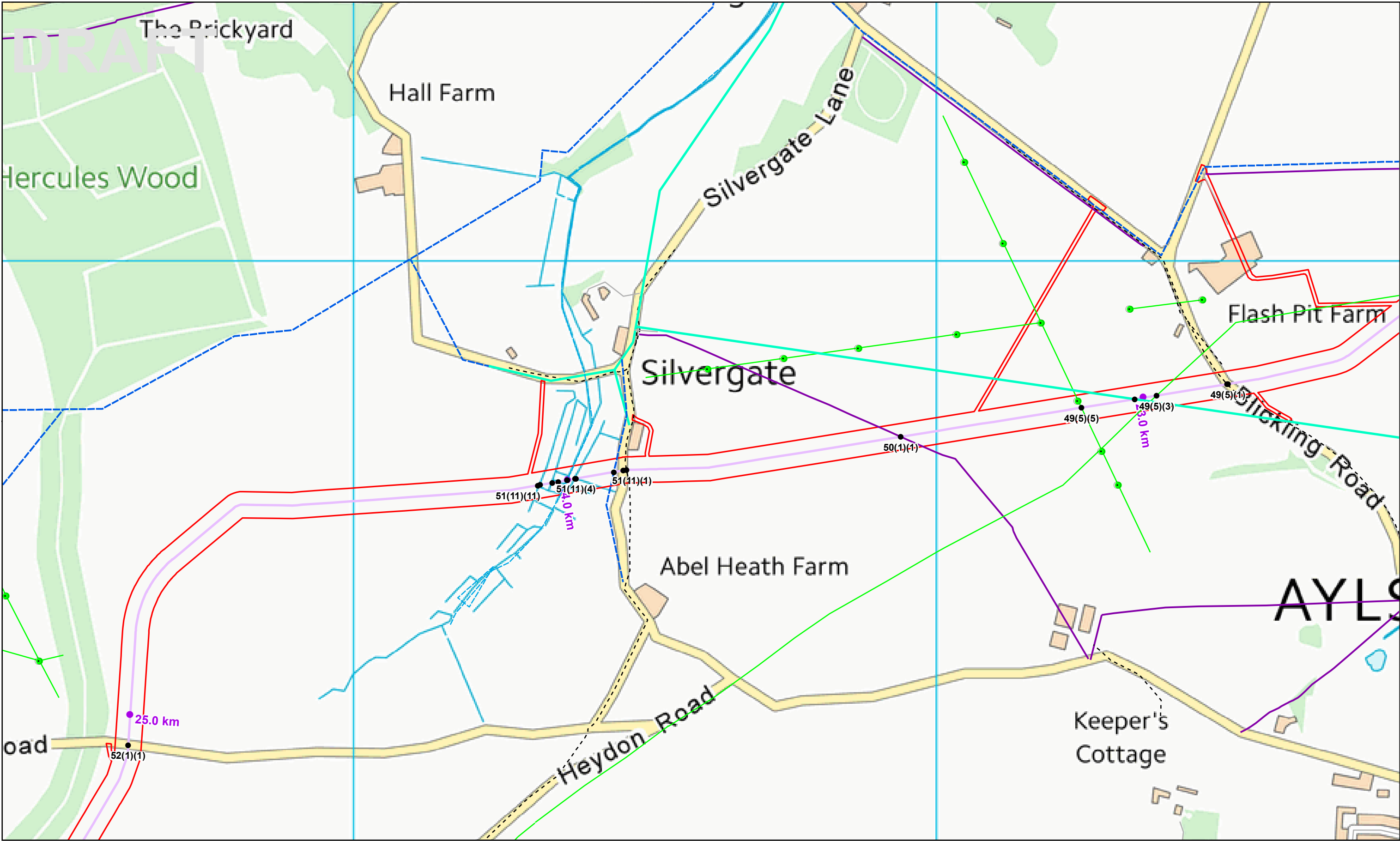
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**Figure #**



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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
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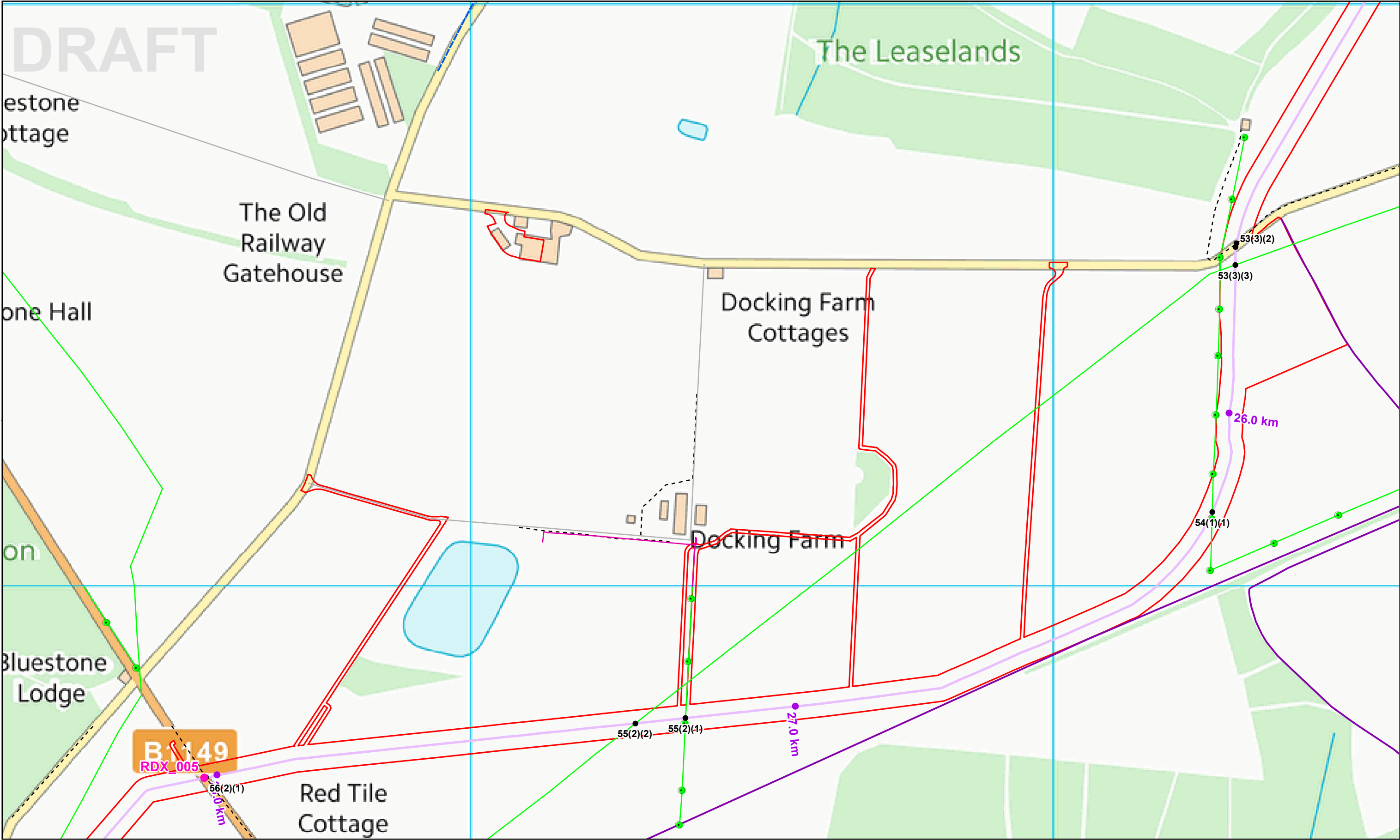
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**Figure #**





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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
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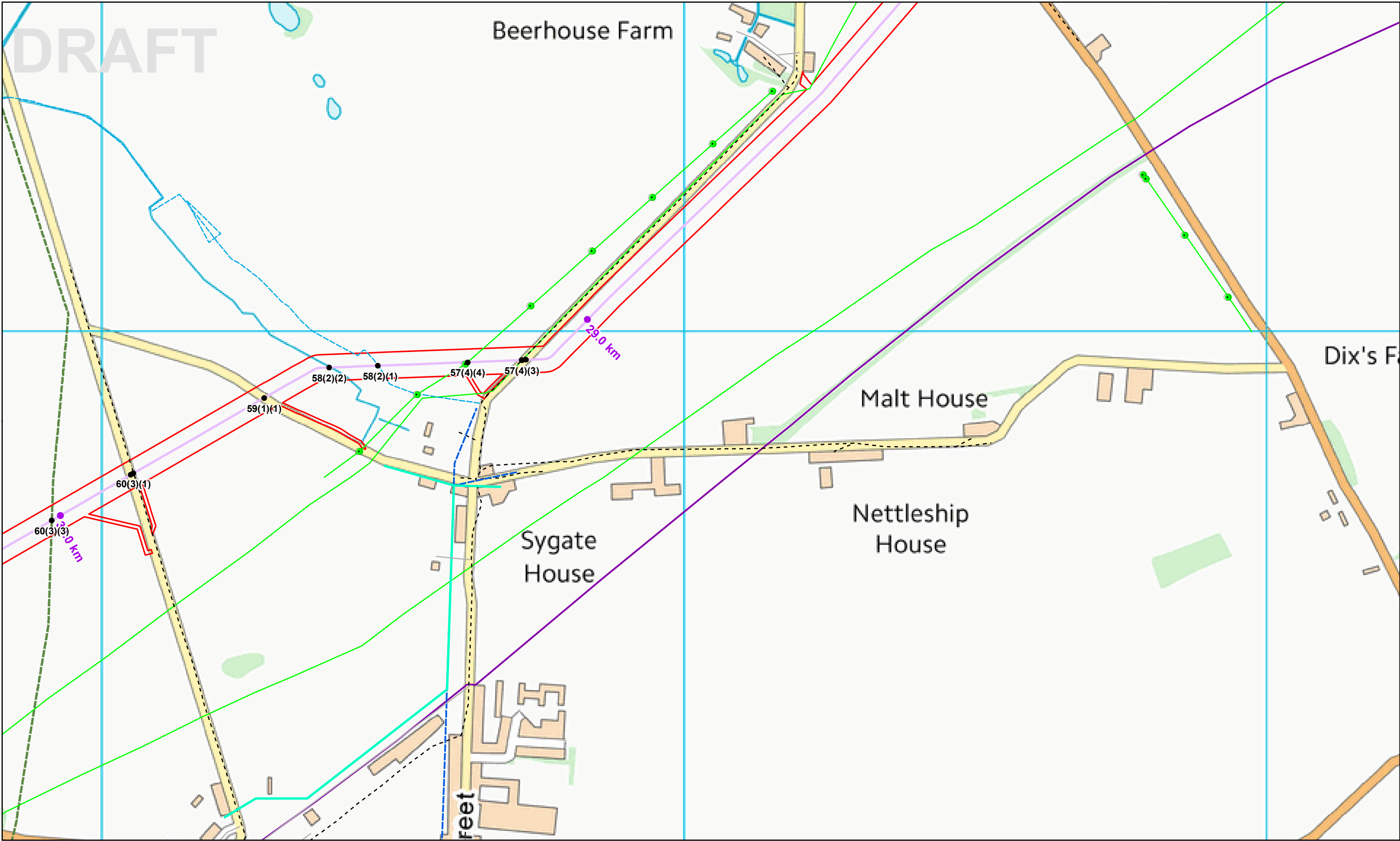
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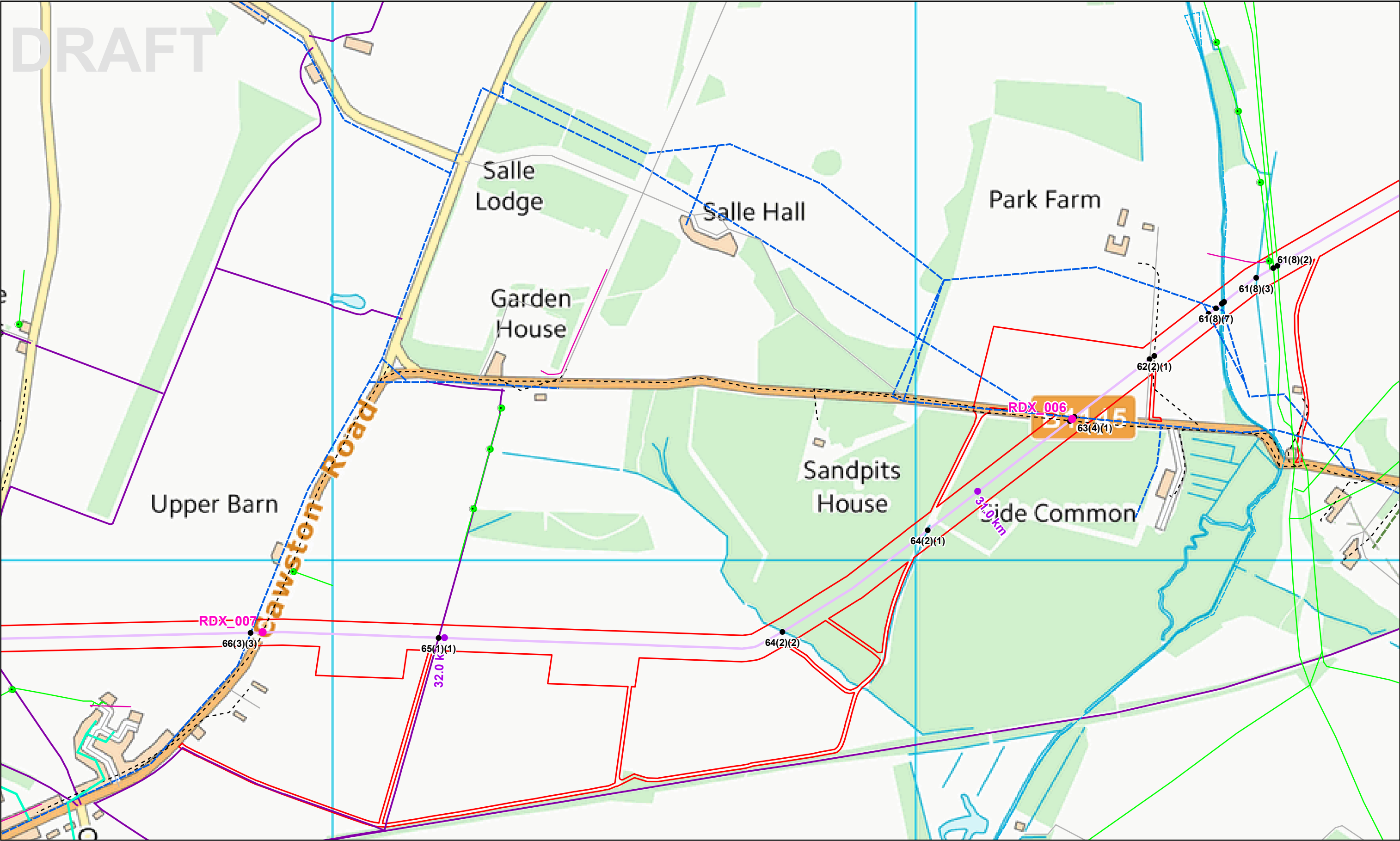
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**Figure #**







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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
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Major Road Crossing	Water Main	Underground Power Cable
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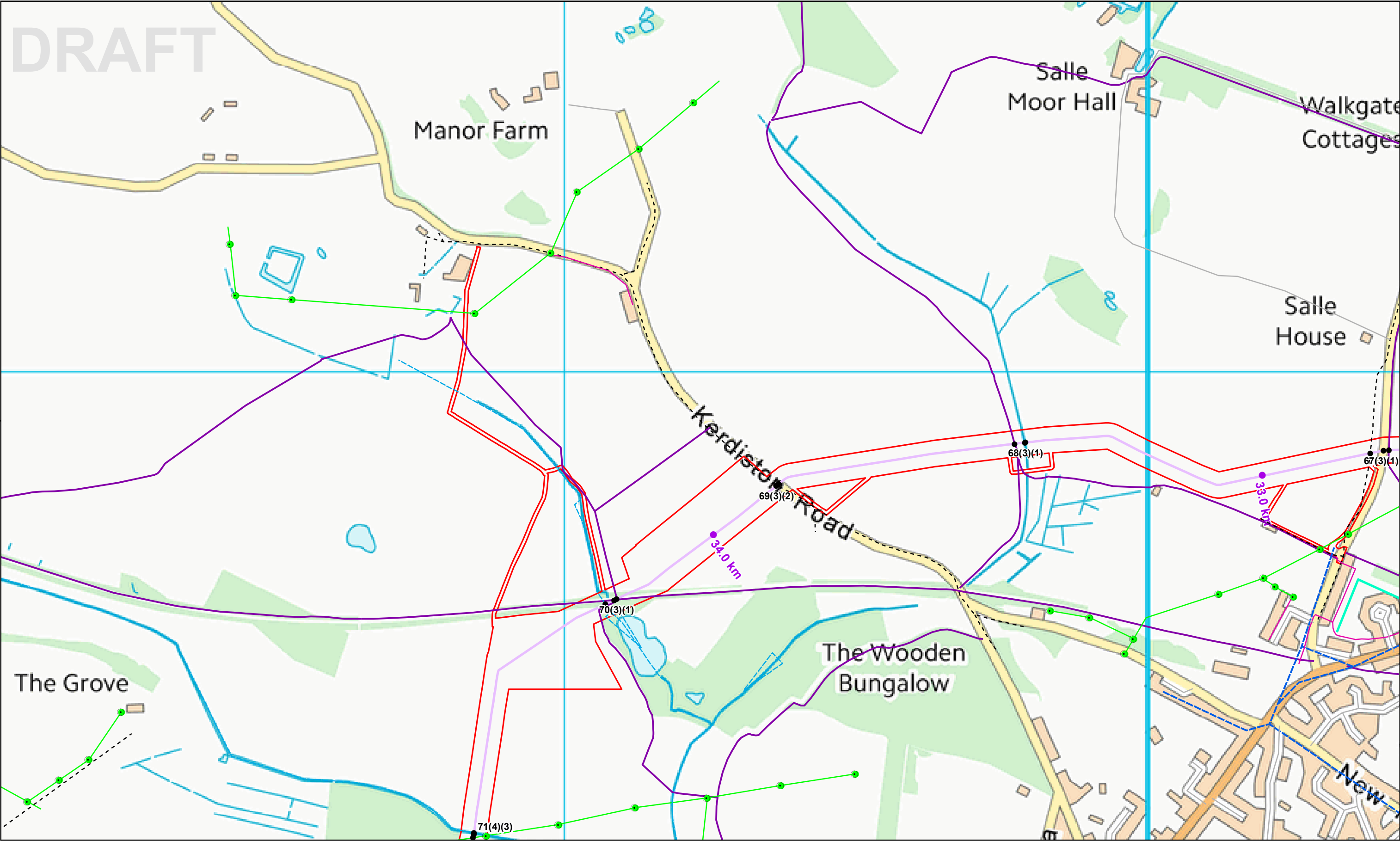
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**Figure #**



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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
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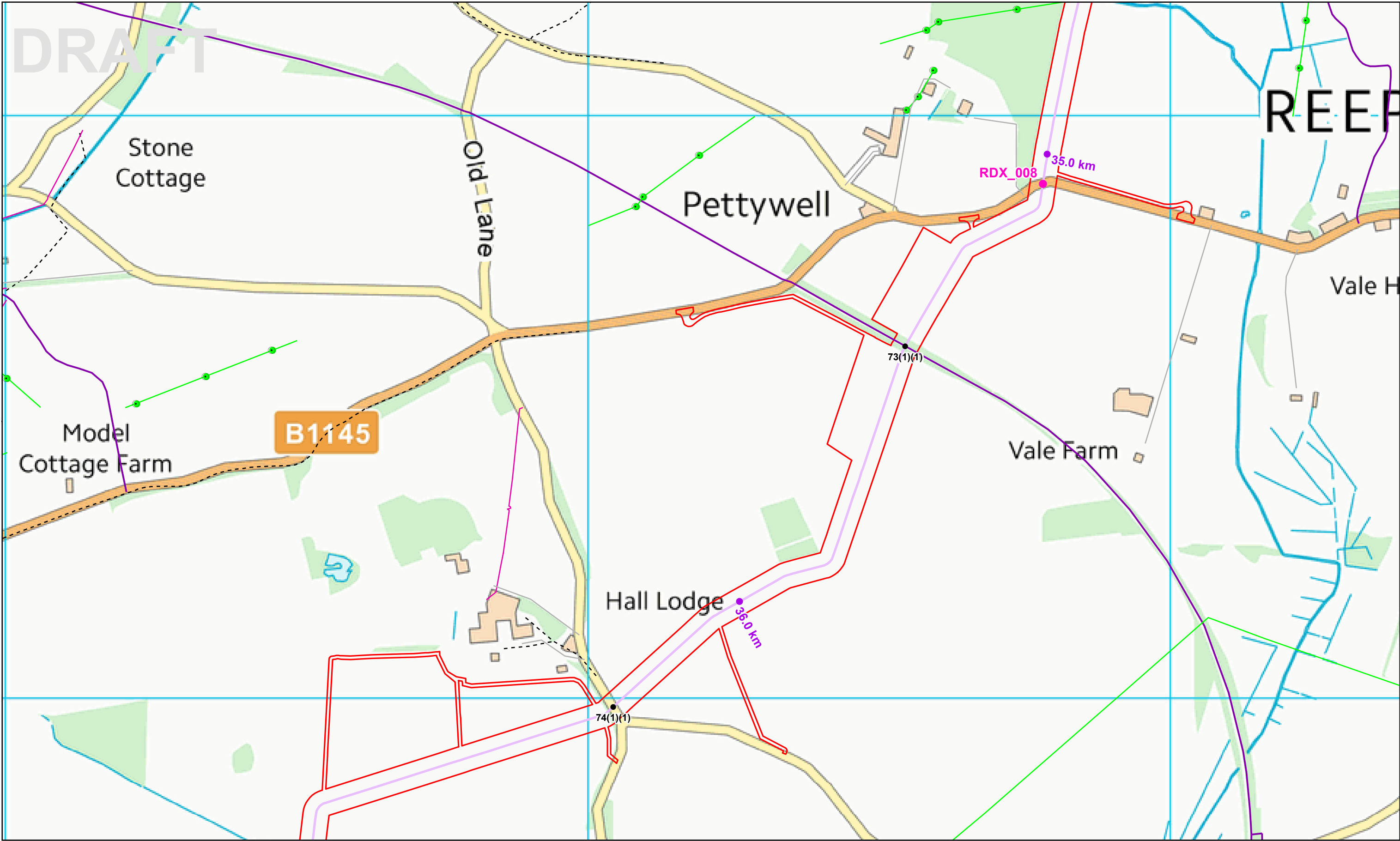
**Onshore Cable Route  
Crossing Schedule**

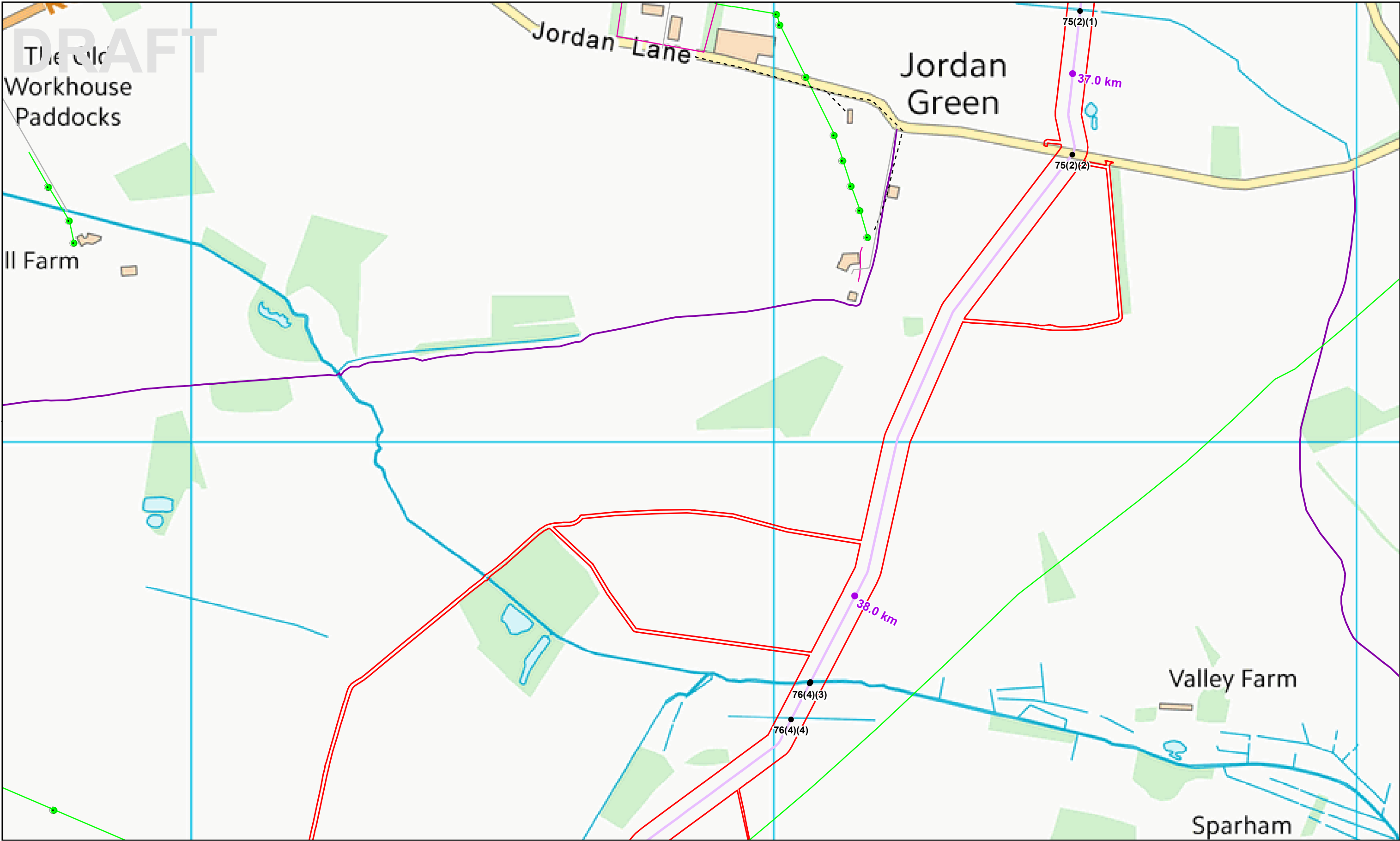
Job Number	66-10854
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Metres

Map Projection: Transverse Mercator  
Horizontal Datum: OSGB 1936  
Grid: British National Grid

**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

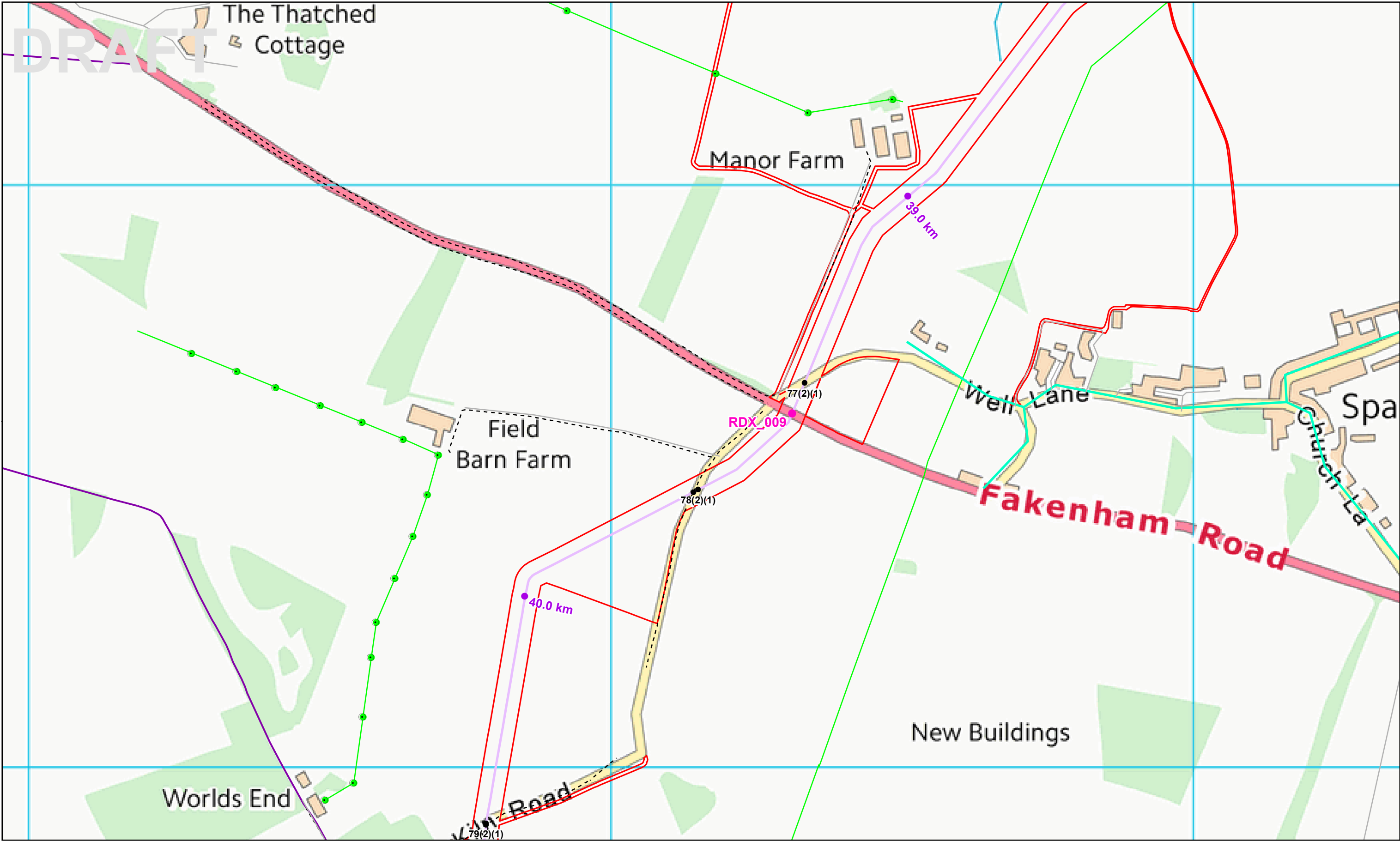
Vattenfall  
Norfolk Vanguard Offshore Wind Farm

**Onshore Cable Route  
Crossing Schedule**

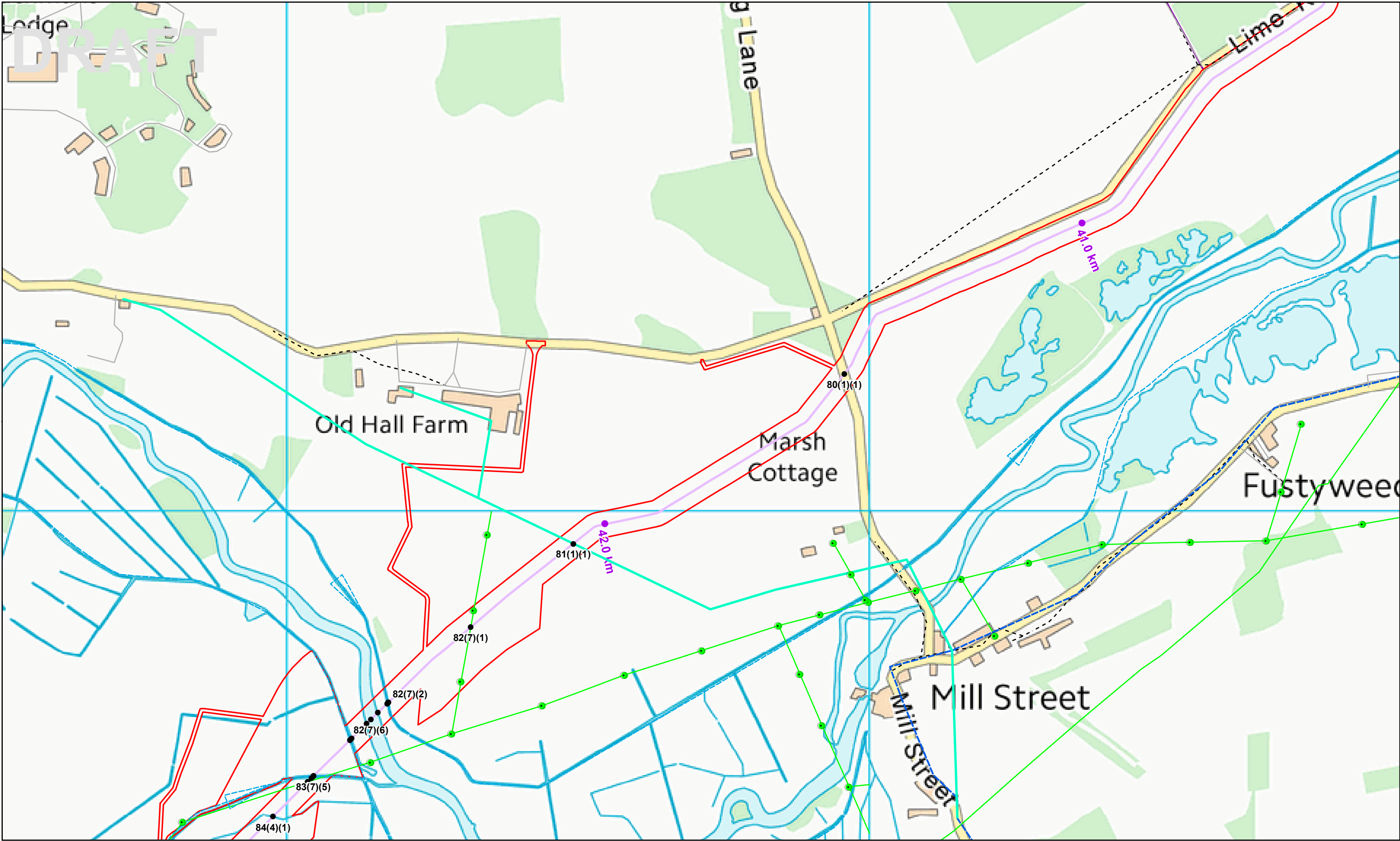
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**Figure #**







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Map Projection: Transverse Mercator  
Horizontal Datum: OSGB 1936  
Grid: British National Grid

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LEGEND

● Pole	— Access Road/Track	— Indicative Centre Line
● Crossing	— Sewer	— Overhead Power Cable
● Major Road Crossing	— Water Main	— Underground Power Cable
— Drain	--- Telecommunication	— Dudgeon Cable(2016/01/16)
— Gas Pipe	— Public Right of Way	— Sheringham Shoal Underground Cable

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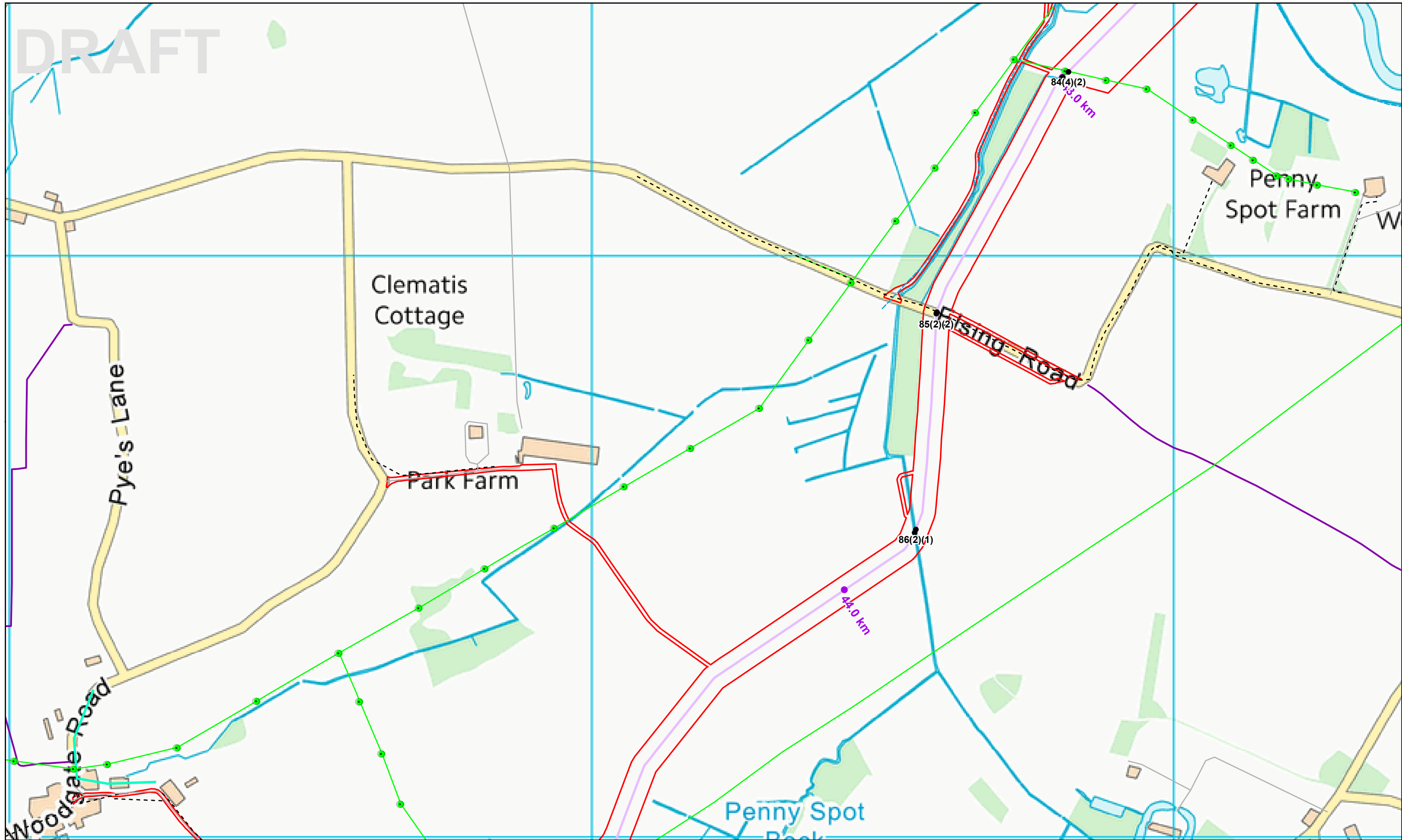
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Norfolk Vanguard Offshore Wind Farm

Onshore Cable Route  
Crossing Schedule

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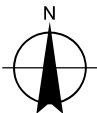
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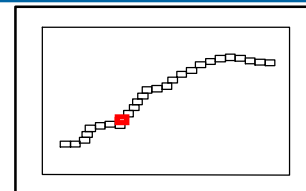
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Grid: British National Grid



#### LEGEND

- |                       |                       |                                      |
|-----------------------|-----------------------|--------------------------------------|
| ● Pole                | — Access Road/Track   | — Indicative Centre Line             |
| ● Crossing            | — Sewer               | — Overhead Power Cable               |
| ● Major Road Crossing | — Water Main          | — Underground Power Cable            |
| — Drain               | --- Telecommunication | — Dudgeon Cable(2016/01/16)          |
| — Gas Pipe            | — Public Right of Way | — Sheringham Shoal Underground Cable |

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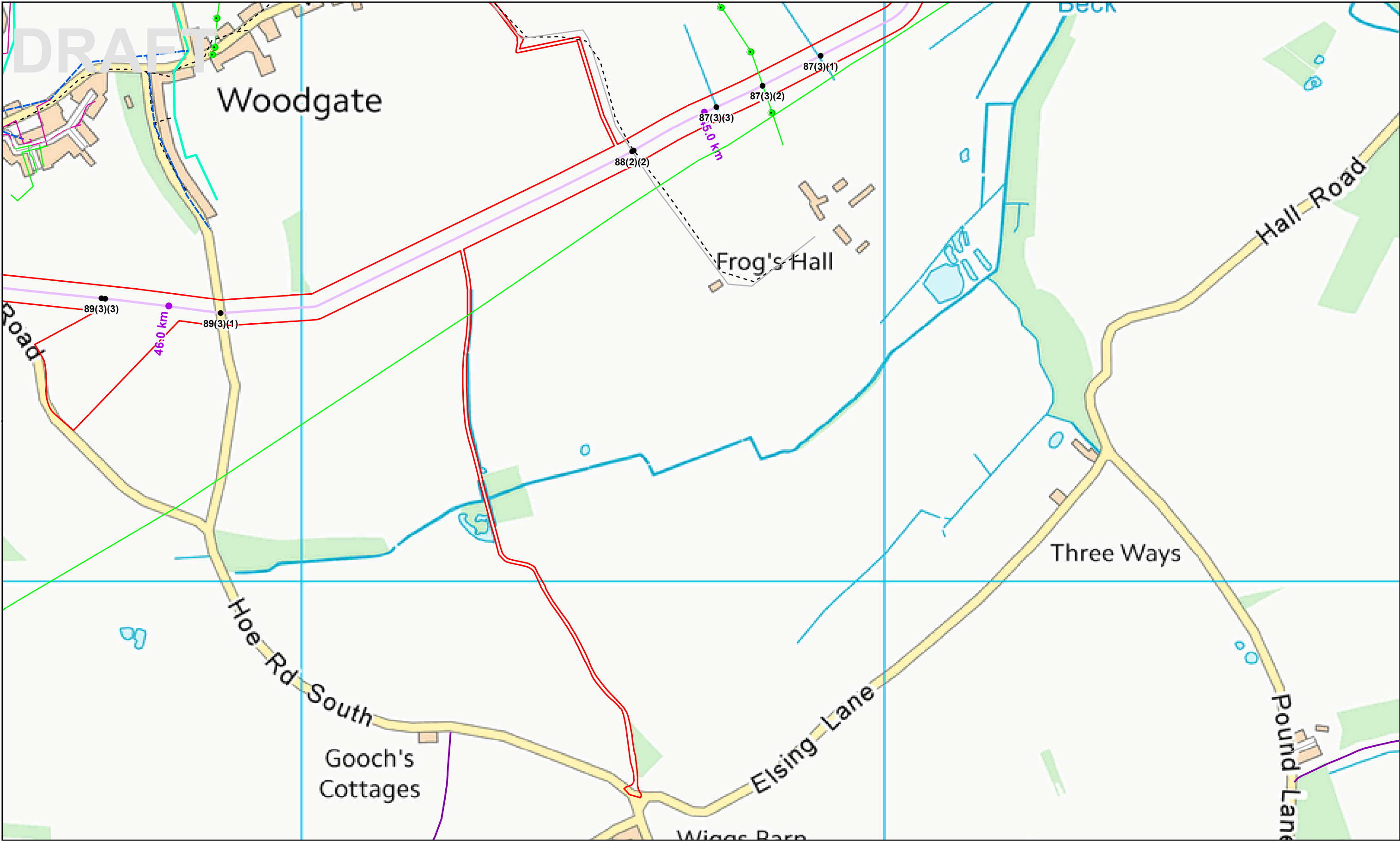
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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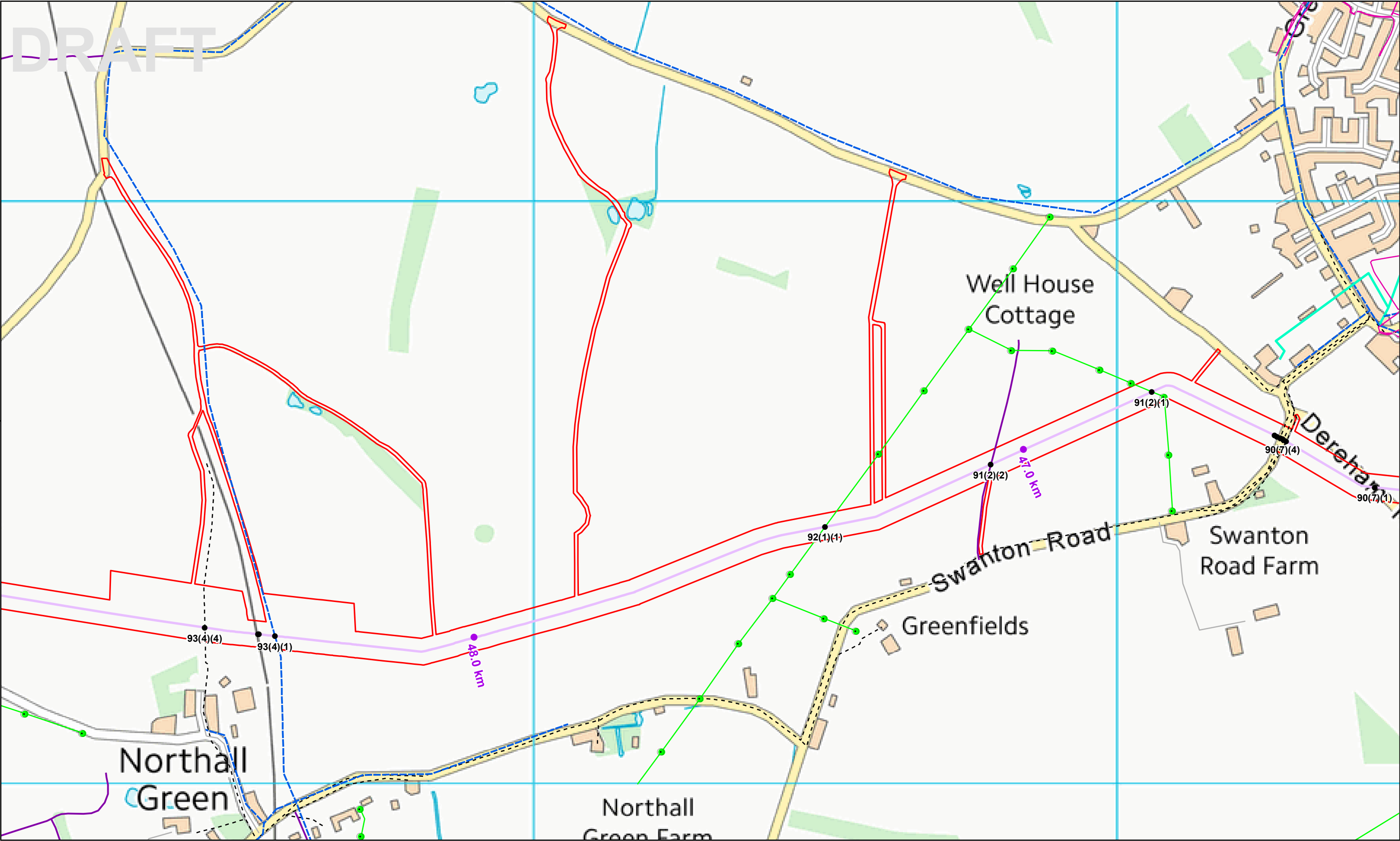
**Onshore Cable Route  
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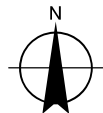
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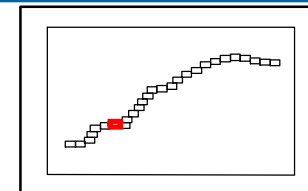
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Horizontal Datum: OSGB 1936  
Grid: British National Grid



#### LEGEND

- |                       |                       |                                      |
|-----------------------|-----------------------|--------------------------------------|
| ● Pole                | — Access Road/Track   | — Indicative Centre Line             |
| ● Crossing            | — Sewer               | — Overhead Power Cable               |
| ● Major Road Crossing | — Water Main          | — Underground Power Cable            |
| — Drain               | — Telecommunication   | — Dudgeon Cable(2016/01/16)          |
| — Gas Pipe            | — Public Right of Way | — Sheringham Shoal Underground Cable |

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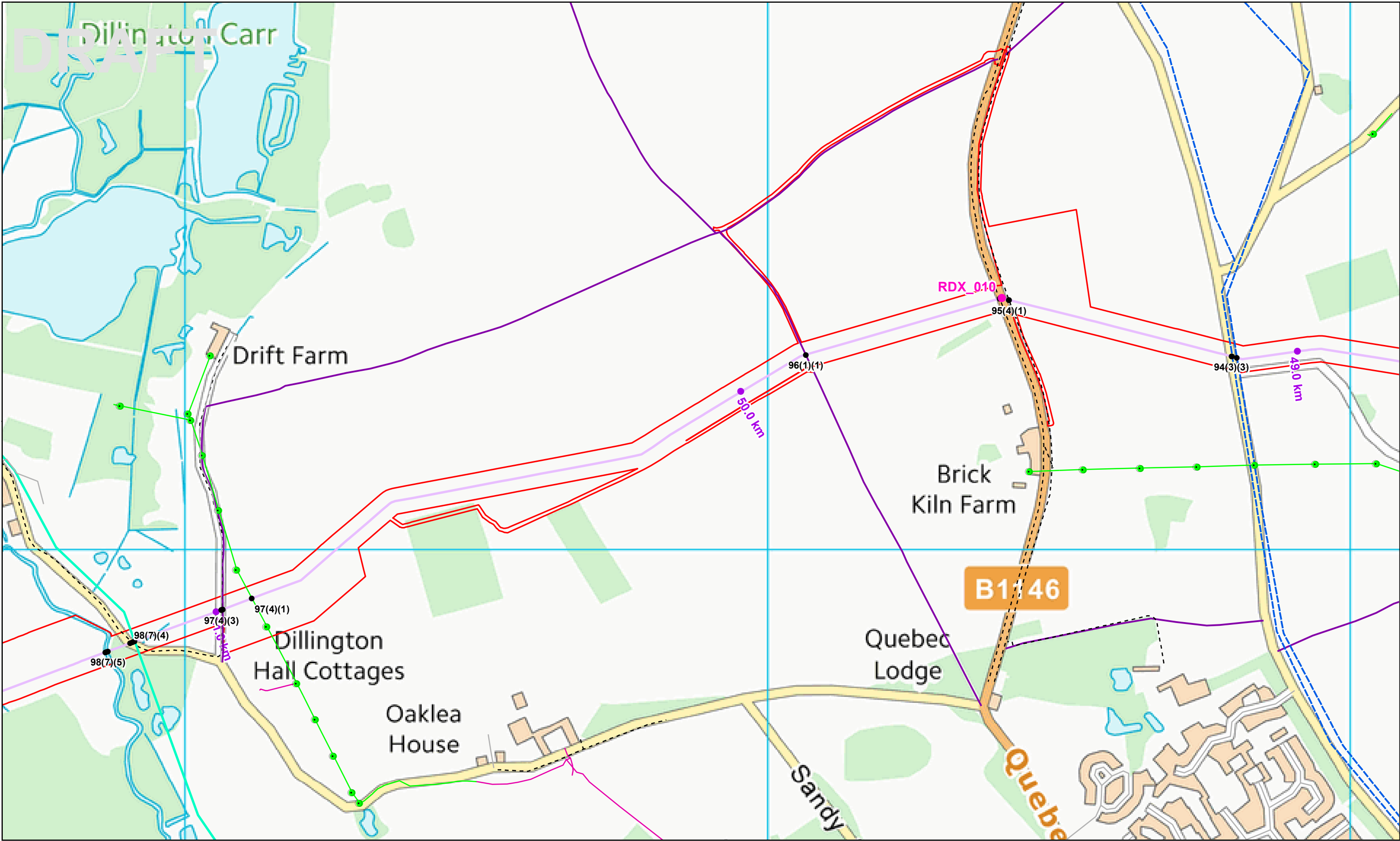
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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Norfolk Vanguard Offshore Wind Farm

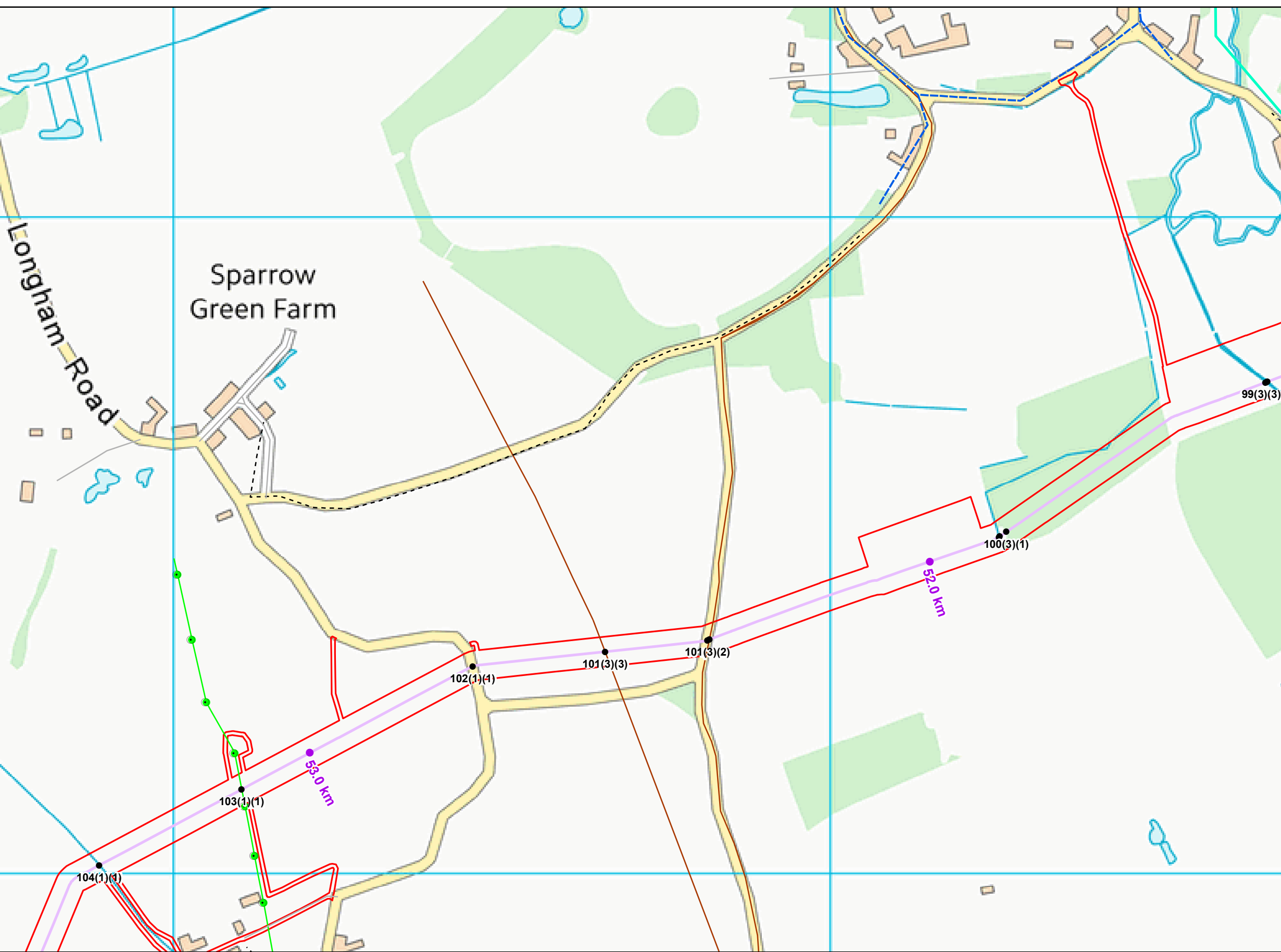
**Onshore Cable Route  
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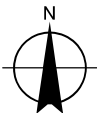
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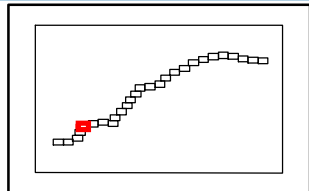
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LEGEND

- |                     |                     |                                    |
|---------------------|---------------------|------------------------------------|
| Pole                | Access Road/Track   | Indicative Centre Line             |
| Crossing            | Sewer               | Overhead Power Cable               |
| Major Road Crossing | Water Main          | Underground Power Cable            |
| Drain               | Telecommunication   | Dudgeon Cable(2016/01/16)          |
| Gas Pipe            | Public Right of Way | Sheringham Shoal Underground Cable |

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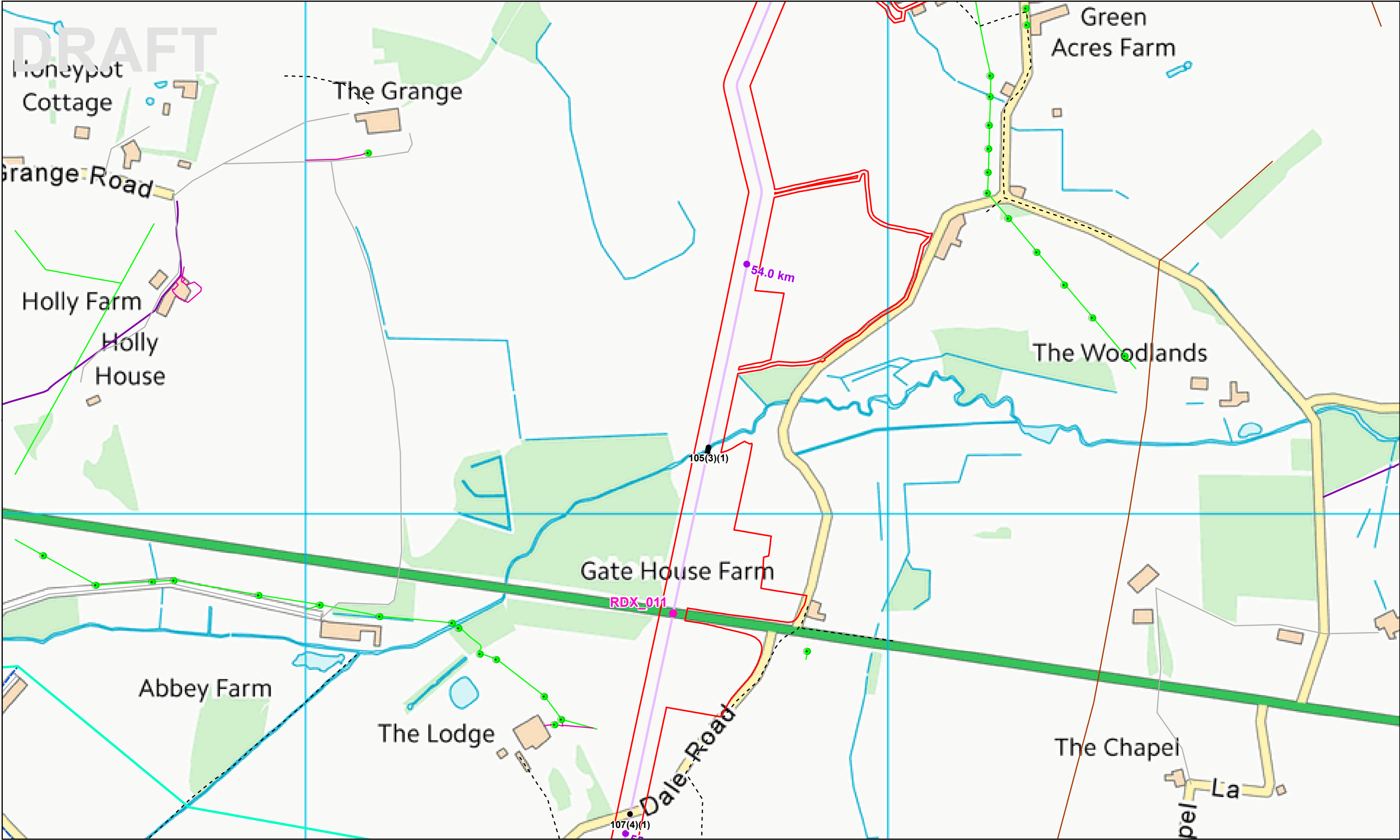
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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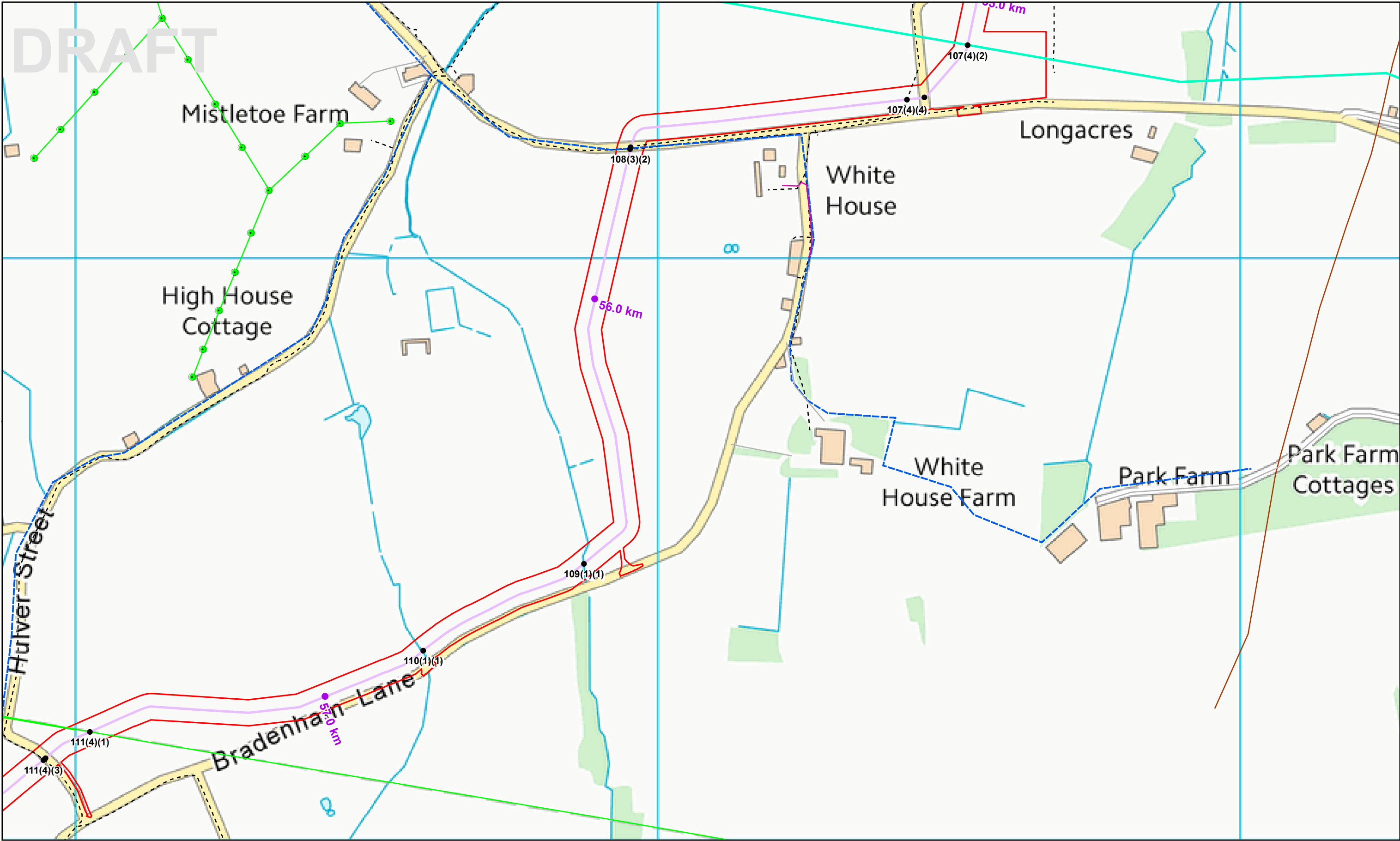
Vattenfall  
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LEGEND

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
Drain	Telecommunication	Dudgeon Cable(2016/01/16)
Gas Pipe	Public Right of Way	Sheringham Shoal Underground Cable

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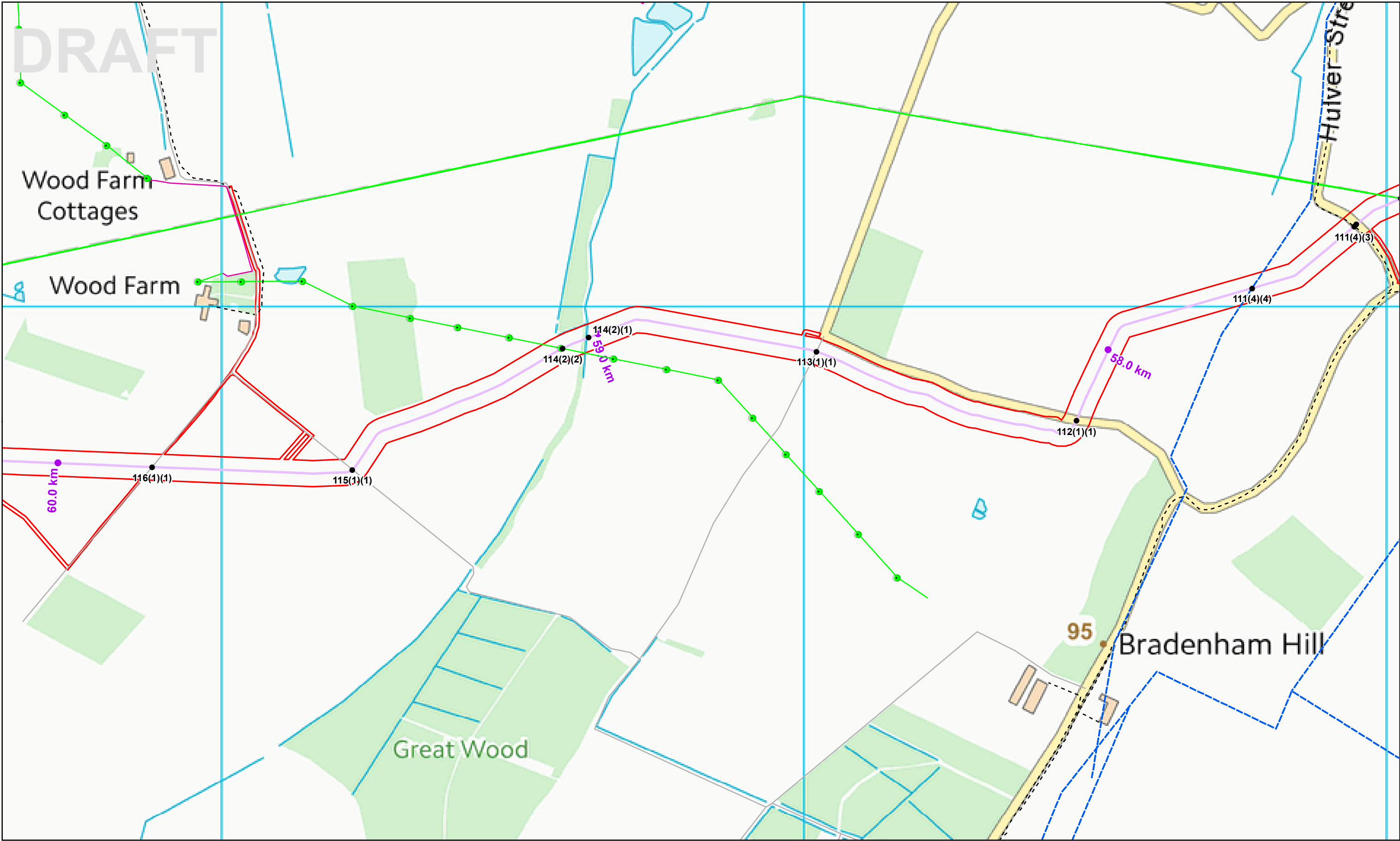
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**LEGEND**

Pole	Access Road/Track	Indicative Centre Line
Crossing	Sewer	Overhead Power Cable
Major Road Crossing	Water Main	Underground Power Cable
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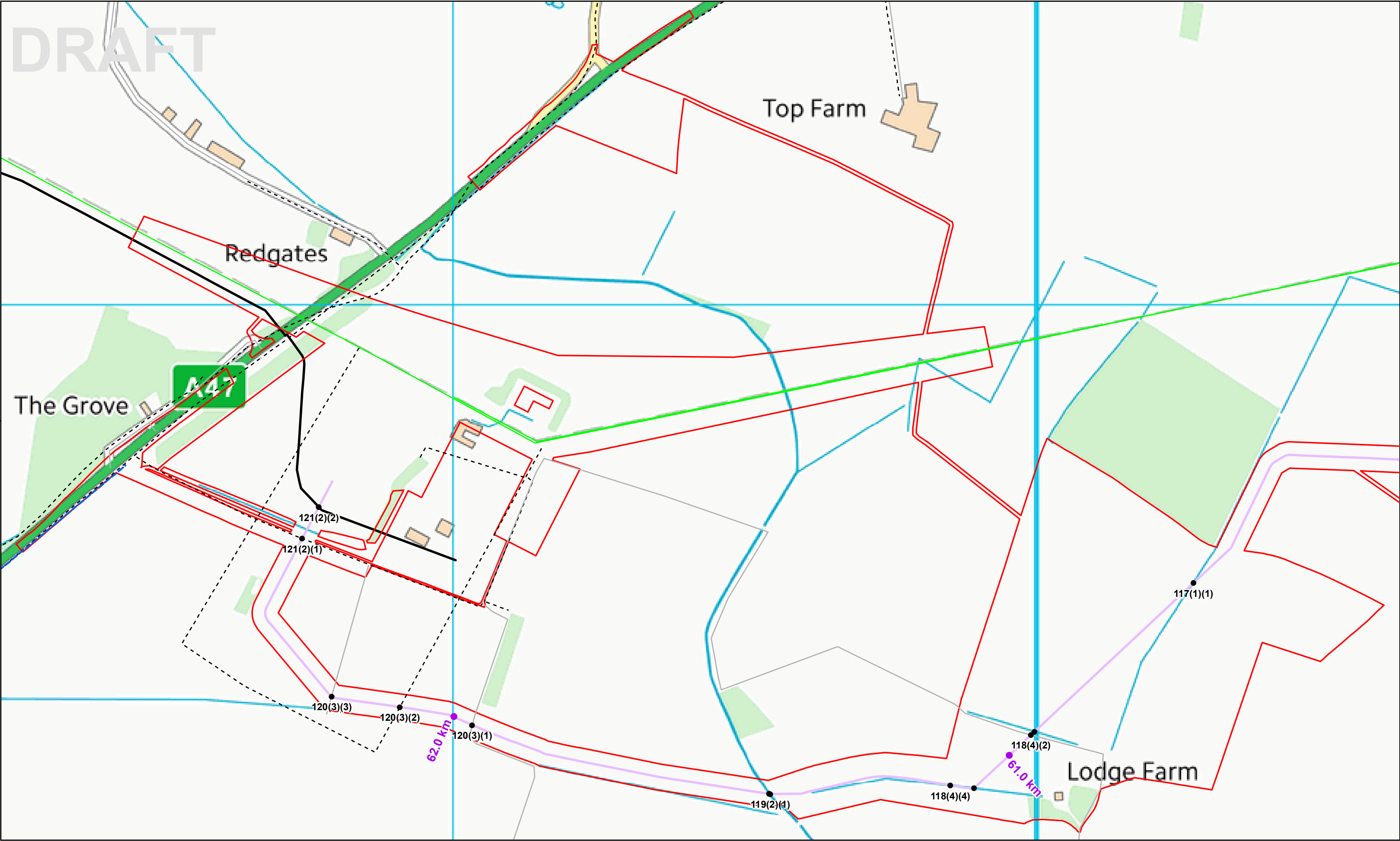
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**Onshore Cable Route  
Crossing Schedule**

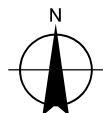
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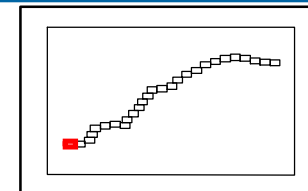
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#### LEGEND

- |                       |                       |                                      |
|-----------------------|-----------------------|--------------------------------------|
| ● Pole                | — Access Road/Track   | — Indicative Centre Line             |
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