PROJECT TITLE:Cinques Road, GamlingayPROJECT JOB NO:18156REPORT REF:18156/ITNDATE:19/02/2020Prepared by:GBR

Cinques Road, Gamlingay - Infrastructure Technical Note

Introduction

- This Infrastructure Technical Note has been prepared by Woods Hardwick Infrastructure LLP on behalf of Bonnel Homes Limited in relation to the proposed development of land known as Land off Cinques Road, Gamlingay, Cambridgeshire. A Site Location Plan is included as Appendix A.
- 2. The purpose of the Note is to assess and confirm the suitability of the site for residential development in term of highways, drainage, flood risk and utilities in support of the proposal for the site to be allocated within the forthcoming Local Plan. The total area of the site is slightly below 1 ha.
- It is proposed that the site is developed to provide up to 28 residential units with an adoptable vehicular access being taken off Cinques Road, a copy of the indicative site Master Plan is included in Appendix B while a copy of the proposed Site Access Drawing is included in Appendix C.
- 4. The Note confirms that there is no known utility apparatus present which would create an insurmountable constraint to the proposed development and that based upon the utility apparatus in the surrounding area there will be sufficient capacity to serve the proposed development.
- It is confirmed that based upon the Environment Agency's Flood Mapping, the site is not considered to be at risk of flooding from any source during storm events with a probability of at least 1 in 1,000 years.
- 6. A sustainable surface water drainage strategy has been identified in accordance with the hierarchy for surface water disposal and a foul water outfall solution is available via connection to the Anglian Water network.
- An assessment of the sustainability of the site in terms of accessibility to services and facilities and public transport has been undertaken and it has been concluded that the site lies in a sustainable location.
- 8. It can therefore be concluded that there are no known highways, drainage or utility constraints that would preclude the development of the site.





Flood Risk

9. The Environment Agency's Flood Maps, included within Appendix D, confirm that the site is located within Flood Zone 1 which is the most appropriate classification for residential development, the online mapping also confirms that the site is not at risk of flooding from reservoirs and that the risk of flooding from surface water is very low.

Potable Water

10. Cambridge Water are the incumbent potable water provider, their record plans are currently awaited, however it is understood that they currently supply Gamlingay and for a development of this scale it is anticipated that there will be sufficient capacity in the existing network.

Surface Water Drainage

- 11. The hierarchy for sustainable surface water dictates that the first option to be pursued in terms of method of discharge is via infiltration.
- 12. The British Geological Survey identifies the site's bedrock geology as being Woburn Sands Formation, sandstone, which would be conducive to drainage via infiltration.
- 13. The Soilscapes online mapping tool also confirms that the soils underlying the site are likely to be freely draining acid loamy soils.
- 14. While full infiltration testing would be undertaken prior to the submission of a planning application, the information from the above sources provide sufficient comfort that an infiltration-based solution will be achievable on the site.
- 15. Based upon the current site Masterplan the individual dwellings could drain via a combination of traditional soakaways located in back gardens and permeably paved driveways. The private parking areas could also be permeably paved.
- 16. Cambridgeshire County Council Highway Authority do not currently adopt permeably paved roads however the main access road through the site could be permeably paved if it were to remain private and be maintained by a developer funded management company.
- 17. Alternatively, if the access road is to be offered for adoption an infiltration swale could be provided adjacent to the site access road to drain the adoptable road.





Foul Water Drainage

- 18. Anglian Water's Wastewater Record Plans relevant to the site have been obtained (Appendix E) and the plans confirm the presence of a gravity foul sewer within Cinques Road along the site frontage. A topographical survey has been undertaken which includes the details of the invert level of the nearest manhole (MH 2603) on this sewer to the site. Based upon the topography of the site a gravity connection to this manhole would be achievable.
- 19. While it is not anticipated that there will be any issues in terms of capacity in the network for a development of the scale proposed, Anglian Water operate a Zonal Charge in relation to foul water which would cover any reinforcement works which may be necessary. Similarly, the Water Industry Act requires the incumbent water authority to ensure that there is sufficient capacity within their treatment works to accommodate development benefiting from planning consent, no problems are therefore anticipated in this regard.

Electricity

- 20. UK Power Networks (UKPN) record plans (Appendix F) indicate that there are pole mounted LV cables outside the frontage of the site. This is confirmed by the topographical site survey. The undergrounding of Low Voltage cables is a relatively standard procedure and the developer will liaise with UKPN as to the best approach and any necessary works to facilitate the construction of the access and the development of the site will be funded by the developer.
- 21. Given the extent of electric infrastructure within Gamlingay and in proximity to the site, it is not anticipated that providing a supply to the site will be problematic.

Gas

- 22. Cadent, on behalf of National Grid, were contacted with regard to the extent of their infrastructure in proximity to the site and they subsequently provided copies of their record plans (Appendix G) which confirm that no existing apparatus serves as a constraint to development and that the nearest apparatus is a 125mm Low Pressure Main located within Cinques Road along the site frontage.
- 23. It is anticipated that the proposed development can be served via this apparatus without the requirement for upgrades to the network.





Telecommunication

24. Record Plans have been obtained from BT Openreach (Appendix H) which confirm that no known apparatus crosses the site. There is however a pole connecting cables along the site frontage in proximity to the previously mentioned electrical pole. The relocation of this apparatus in accordance with BT's requirements is not considered to be problematic.

Highways and Transportation

- 25. The Site Access Drawing included within Appendix C confirms that the site can be suitably accessed via a new priority junction onto Cinques Road, the drawing confirms that the necessary visibility splays can be achieved in accordance with the requirements set out within Manual for Streets. The drawing also confirms that pedestrian access to the site will be provided by way of a footway alongside the access to tie into the existing provision along Cinques Road.
- 26. The site is located well within the recommended walking distance of a range of educational and employment opportunities as well as other day to day services and facilities such as the local convenience stores.
- 27. A summary of the services and facilities available within the village and the approximate walking distances are provided below:

Food/Drink

Jannah Indian Restaurant - 600m The Cock Inn (Pub) - 700m LJ's Sandwich Bar (Café) - 750m Wheatsheaf Public House (Pub) - 950m

Education

Gamlingay Scout Headquarters School - 350m Sunshine Pre-school - 500m Gamlingay Rainbow Pre-school - 750m Children's Montessori Nursery - 850m Gamlingay Village Primary School - 1.1km

Stratton Upper School and Community College- Gamlingay is within the catchment of Stratton Upper School and Community College and buses to the school are available from bus stops located within walking distance of the site.





Convenience Stores

Gamlingay Premier Supermarket - 600m Co-operative Food - 700m

Health and Beauty

The Old Bank Barbers - 600m SK Hairdressing - 750m Gamlingay Pharmacy - 800m Victoria & Nicholas Nail salon - 1.0km Potton Dental Practice - 4.4km

Services

Living Gardens (Garden Centre) - 34m Gamlingay Post Office - 350m Chapman's Garage Ltd (Vehicle Repair Shop) - 1.5km ATM & Tesco Express - 4.3km

Places of worship

Parish Church of Saint Mary the Virgin Gamlingay - 900m Gamlingay Baptist Church - 1.1km

- 28. Further educational, leisure and employment opportunities are available within Potton and Sandy which are located approximately 4.5km and 8.5km from the site respectively.
- 29. In addition to the facilities and opportunities noted above, the site will be located within 2 minutes walking distance of bus stops for both directions of travel located along Green Acres to the south east of the site. The services that operate from the bus stop provide an hourly connection to Potton, Sandy, Biggleswade, Shefford and Hitchin. A summary of the timetable information is presented in the table below:



Service	Operator	Route	Frequency	First	Last
400	Centrebus - Sandy		- Sandy Monday-		17:03
190	South	Sandy - Potton - Biggleswade - Hitchin	Saturday Hourly	07:58	17:42
	C G Myall &	St Neots - Longstowe - Orwell - Arrington - Croydon - The Hatleys	Thursday	13:00	13:00
C2	Son	The Hatleys - Croydon - Arrington - Orwell - Longstowe - St Neots	only	09:08	09:08

30. The site also lies within 8.2km distance of Sandy Railway Station from which regular main-line services to destinations including Peterborough, Huntingdon, St Neots, Biggleswade, Arlesey, Hitchin, Stevenage and London are available. Services to these locations operate approximately every 30 minutes with the journey time to London being approximately 50-60min.

Summary and Conclusions

- 31. From the above it can be concluded that no issues are anticipated in terms of capacity in the various utility networks to supply the site. It can also be concluded that there is no known utility apparatus that would serve as an insurmountable constraint to development.
- 32. An adopted foul sewer passes close to the site's frontage within Cinques Road and the topographical site survey confirms that a gravity connection to this sewer will be achievable.
- 33. Based upon the available online Geological Mapping the site is likely to be underlaid by permeable material, meaning that surface water via infiltration is likely to be the most sustainable strategy. This is in accordance with the Drainage Strategy Hierarchy.
- 34. In terms of flood risk the site is located within Flood Zone 1 and is therefore considered to have a probability of flooding of less than 1 in 1,000 years. The EA's surface water maps and reservoir flooding maps confirm that the site is also not considered to be at risk from these sources.
- 35. It has been demonstrated that a suitable vehicular access to the site can be provided with appropriate visibility splays off Cinques Road. Pedestrian access can also be provided alongside the road.





- 36. There are a number of services and facilities located in proximity to the site as well as a bus stop which provides sustainable access to the wider area. The site is therefore considered to lie in a sustainable location in terms of accessibility to services and facilities and the availability of sustainable modes of travel.
- 37. Upon consideration of the above, it can be concluded that the proposed development at Land off Cinques Road can be supported through the planning process in terms of highways, transportation, flood risk, drainage and utilities.





□ Woods Hardwick





Appendix B Master Plan

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SCALE 1:500

NOTES

- 1. Contractors must check all dimensions on site. Only figured dimensions are to be worked from. Discrepancies must be reported to the Architect or Engineer before proceeding. © This drawing is copyright.
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Site Boundary

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Visibility Splays set at 2.4m x 43.0m

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DETAILS	Site Access				

Appendix D Environment Agency's Flood Maps





Flood map for planning

Your reference 18156

Location (easting/northing) 523370/252789

Created 19 Feb 2020 17:01

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

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Extent of flooding from surface water





Extent of flooding from rerservoirs



Appendix E Anglian Water's Wastewater Record Plans



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Appendix F UK Power Networks Record Plans





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lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead

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Cross Section : 18

See Supplemental Diagram TL2352NEA for Cross-Section 18 details

3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined. 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc. 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.	You rely upon it at your own risk. n 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person. t 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for a any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential		UK Power Networks
Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems.		55 5 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6
Second used by a second strategy of Parliage as Supervised by State (1980), States wanted by second states (1917), All Second states of Parlie		Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and owerhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.	

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□ Woods Hardwick

Architecture Engineering Planning Surveying







* Available 24 hours, 7 days/week. Calls may be recorded and monitored.

Date: 14/02/2020 Our Ref: EA_GE3A_3FWX_052401 Your Ref: 18156 RE: Formal Enquiry, Cinques Road, Gamlingay, South Cambridgeshire, SG19 3NP

Thank you for your enquiry which was received on 14/02/2020. Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to Cadent Gas Limited, National Grid Electricity Transmission plc's and National Grid Gas Transmission plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus. For details of Network areas please see the Cadent website (<u>http://cadentgas.com/Digging-safely/Dial-before-you-dig</u>) or the enclosed documentation.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. Plant Protection will endeavour to provide an <u>initial</u> assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near Cadent and/or National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to Cadent Gas Limited, National Grid Electricity Transmission plc (NGET) and National Grid Gas Transmission plc (NGGT) and apparatus. This assessment does **NOT** include:

- Cadent and/or National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to Cadent and/or National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Plant Protection.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on either the <u>National Grid</u> or <u>Cadent</u> website.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to Cadent and/or National Grid's easements or wayleaves nor any planning or building regulations applications.

Cadent Gas Limited, NGGT and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the Plant Protection team via e-mail (<u>click here</u>) or via the contact details at the top of this response.

Yours faithfully

Plant Protection Team

ASSESSMENT

Affected Apparatus

The apparatus that has been identified as being in the vicinity of your proposed works is:

Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

Please do not commence any work before you have been contacted, and the relevant authorisation received.

As your project progresses, it is recommended that you make a further enquiry to reflect that progress, at which point you will be asked to supply further information.

Requirements

BEFORE carrying out any work you must:

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe Cadent and/or National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near Cadent and/or National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 -'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <u>http://www.hse.gov.uk</u>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

Excavating Safely - Avoiding injury when working near gas pipes: http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document: http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982

General Guidance document: http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103

Excavating Safely in the vicinity of gas pipes guidance (Credit card): http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf

Excavating Safely in the vicinity of electricity cables guidance (Credit card): http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf

Copies of all the Guidance Documents can also be downloaded from the National Grid and Cadent websites.

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ID: EA_GE3A_3FWX_052401	View extent: 515m, 305m	Map not to be used for construction
USER: j.katsoulis1	MP MAINS	This plan shows those pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is
DATE: 14/02/2020		
DATA DATE: 13/02/2020	LHP MAINS	given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by
REF: 18156	NHP MAINS	Cadent Gas Limited or their agents, servants or contractors for any error or omission. Safe digging
MAP REF: TL2352 CENTRE: 523382, 252771	0m 1 25m	practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date
ome examples of Plant Issue:		of issue.

Playground



MAPS Plot Server Version 1.11.0



Requested by: Woods Hardwick

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ENQUIRY SUMMARY

Received Date 14/02/2020

Your Reference 18156

Location Centre Point: 523382, 252771 X Extent: 211 Y Extent: 262 Postcode: SG19 3NP Location Description: Cinques Road, Gamlingay, South Cambridgeshire, SG19 3NP

<u>Map Options</u> Paper Size: A3 Orientation: LANDSCAPE Requested Scale: 1250 Actual Scale: 1:1250 (GAS) Real World Extents: 515m x 305m (GAS)

Recipients

Enquirer Details Organisation Name: Woods Hardwick Contact Name: Jasmine Katsoulis

Address: 15-17, Goldington Road, Goldington Road, Bedford, Bedford, MK40 3NH

<u>Description of Works</u> proposed development of up to 28 dwellings

Enquiry Type Formal Enquiry

Activity Type Development Project

<u>Work Types</u> Work Type: Surface Works Work Type: Permanent Structures

<u>Notice Types</u> Notice Type: NRSWA Diversion Request (C2 Preliminary Enquiry)

Appendix H BT Openreach Record Plans

M Woods Hardwick

Architecture Engineering Planning Surveying



If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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N/A

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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