

5. Site Details		
5.1	<p>What name would you like the site to be known by?</p> <p>(Please note if the site is currently included within the ALDP2017 please use the OP site number)</p>	Heathvale, Cove
5.2	Site Address	Land to the east of Wellington Road and west of Charleston Crescent Cove Aberdeen
5.3	Postcode	
5.4	Have you any information for the site on the internet? If so please provide the web address:	Yes <input checked="" type="checkbox"/> / No Details: No
5.5	Is the site currently being marketed?	Yes <input checked="" type="checkbox"/> / No Details: No
5.6	Site Location Map (Please include an OS Map with the Boundary of the site clearly marked)	Details:
5.7	Please provide the National Grid reference of the site.	NJ940008
5.8	What is the current use of the site?	grazing/gorse/scrubland
5.9	Has there been any previous development on the site? If yes please provide details	Yes <input checked="" type="checkbox"/> / No Details: No previous development, but Heathvale cottage is located within the boundary of the site.

6. Legal and Planning History			
6.1	Please indicate the relationship to the Proposer or Person / Organisation they are working on behalf of, has with the site.	Sole owner	
		Part owner	
		Option to purchase	✓
		No legal interest	
6.2	Is the site under option to a developer?	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No Details: Yes, under option to Mactaggart & Mickel Homes	
6.3	Is the proposed site included in the ALDP2017?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details: see paper apart	
6.4	Is the proposed site included in the Aberdeen City Centre Masterplan?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details:	
6.5	Has the site been subject of previous discussions with the Council or any agent there of?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details:	
6.6	Has the site been subject of previous Planning Applications? (Please provide a planning reference)	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details:	
6.7	Has the site been subject of a previous Bid to a previous LDP? (Please provide the bid reference number)	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details: However, a representation was made to the Proposed Plan in 2015	
6.8	Are there any legal restrictions on the title deeds such as rights of way, way leaves etc.	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details:	
6.9	Are there any other legal factors that might prevent or restrict development? (e.g. ransom strips / issues with accessing the site etc.)	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No Details:	

7.	Your Proposal (Please provide as much detail as possible on your site proposal)		
7.1	Proposed Use	Housing	✓
		Employment	
		Mixed Use	
		Retail	
		Other (Please Specify)	
7.2	Do you have a specific occupier in mind for the site?	Yes / No Details:	
7.3	Site Area (hectares)	ha 6.2 ha	
	Housing		
7.4	Approx. no of units.	120	
7.5	Proposed Mix and Number (Number of Flats / Terraced / Semi-detached / detached etc.)	A mix of terraced, semi detached, detached houses and flatted units would be provided. The exact mix to be determined at the detailed design stage.	
7.6	Affordable Housing Percentage	% This would be provided in line with Local Development Plan Policy at the time of a planning application	
7.7	Affordable Housing Partner (Details of any partner organisation, Registered Social Landlord etc.)	Yes / No Details: Early discussions have taken place with Hillcrest Housing Association	
7.8	Tenure (Details of tenure type, Private Rental Sector / private sale / Housing for the elderly etc.)	This is unknown at this stage, but would be discussed at the detailed design stage.	
	Employment		
7.9	Business and Office	m ²	n/a
7.10	General Industrial	m ²	n/a
7.11	Storage and distribution	m ²	n/a
7.12	Other Please specify	m ²	n/a
	Mixed Use (Please provide as much detail as possible on each use class)		
7.13	Housing	No of units and type:-	
7.14	Employment	m ²	n/a
7.15	Retail	m ²	n/a
	Retail		
7.16	Approx. floor area	m ²	n/a

	Other (Please Specify examples could include retailing, tourism, renewable energy, sports, leisure and recreation, institutions and education.)	
7.17	Details of proposal	
7.18	Approx. floor area	m ²

8.	Engagement and Delivery	
8.1	Has the local community been given the opportunity to influence/partake in the development proposal?	If there has been any community engagement please provide details of the way in which it was carried out and how it has influenced your proposals. If no consultation has yet taken place please detail how you will do so in the future. Yes / No Details: see paper apart
8.2	Will the proposed development be phased?	Yes / No Details: see paper apart
8.3	Expected development start post adoption of the plan in 2022	Year, 0-5, 6-10, 10+ See paper apart
8.4	Expected development completion	Year, 0-5, 6-10, 10+ See paper apart
8.5	Is finance in place and if so what form? (Secured Loan, Grant Funding etc.)	Yes / No Details: Finance will be available by the developer at the time of development.
8.6	Are there any other issues with the delivery of the site that we should be made aware of? (These should include any issues which may prevent or impact on the deliverability of the site.)	Yes / No Details:

9.	Sustainable Development and Design		
9.1	Have you applied principles of sustainable siting and design to your site? The City Council has produced a Sustainability Checklist which provides guidance on the principles of sustainable siting and design and other issues which can be found on www.aberdeencity.gov.uk . Please provide the following information:		
	Orientation		
9.2	Exposure:- (does the site currently have)	Little shelter from northerly winds	
		Some shelter from northerly winds	✓
		Good shelter from northerly winds	
9.3	Aspect:- (is the site mainly)	North facing	
		East or west facing	✓
		South, south west or south east facing	
9.4	Slope:- (do any parts of the site have a gradient greater than 1 in 12?)	Yes	
		If yes approx. what area (hectares or %)	
		No	✓
	Flooding & Drainage		
9.5	Flooding (is any part of the site at risk of flooding or has it previous flooded, if so provide detail You can view the SEPA flood maps at http://map.sepa.org.uk/floodmap/map.htm)	Yes (If yes please use the SEPA flood maps to determine the risk)	
		Little or No Risk	✓
		Low to Medium Risk	
		Medium to High Risk	
		If yes approx. what area (hectares or %)	
		No	
9.6	Has a flooding strategy been developed for the site?	Yes / No	Details:
9.7	Have discussions been had with the Council's flooding team?	Yes / No	Details:
9.8	Have discussion been had with Scottish Water?	Yes / No	Details:
9.9	Is there waste water capacity for the proposed development? http://www.scottishwater.co.uk/business/Connections/Connecting-your-property/Asset-Capacity-Search)?	Yes / No	Details: see paper apart
9.10	Is there water capacity for the proposed development?	Yes / No	Details: see paper apart

	http://www.scottishwater.co.uk/business/Connections/Connecting-your-property/Asset-Capacity-Search)?		
	Land Use, Built and Cultural Heritage		
9.11	Built and Cultural Heritage (would the development of the site lead to the loss or disturbance of archaeological sites or vernacular or listed buildings?)	Significant loss or disturbance	
		Some potential loss or disturbance	
		No loss or disturbance	✓
9.12	Natural conservation (would the development of the site lead to the loss or disturbance of wildlife habitats or species?)	Significant loss or disturbance	
		Some potential loss or disturbance	see paper apart
		No loss or disturbance	
9.13	Landscape features (would the development of the site lead to the loss or disturbance of linear and group features of woods, tree belts, hedges and stone walls?)	Significant loss or disturbance	
		Some potential loss or disturbance	see paper apart
		No loss or disturbance	
9.14	Landscape fit (would the development be intrusive into the surrounding landscape?)	Significant intrusion	
		Slight intrusion	
		No intrusion	see paper apart
9.15	Relationship to existing settlements (how well related will the development be to existing settlements?)	Unrelated (essentially a new settlement)	
		Partially related	
		Well related to existing settlement	✓
9.16	Land use mix (will the development contribute to a balance of land uses, or provide the impetus for attracting new facilities?)	No contribution	
		Some contribution	✓
		Significant contribution	
9.17	Contamination (are there any contamination or waste tipping issues with the site?)	Significant contamination or tipping present	
		Some potential contamination or tipping present	
		No contamination or tipping present	✓

9.18	Will the site impact on any water courses?	Yes / No Details:			
9.19	Does the development site contain carbon-rich soils or peatland? http://www.snh.gov.uk/planning-and-development/advice-for-planners-and-developers/soils-and-development/cpp/	Yes / No Details:			
9.20	Is the development site within the airport safety exclusion zone?	Yes / No Details:			
9.21	Is the development site within the airport 57dB LAeq noise contours?	Yes / No Details:			
9.22	Land use conflict (would the development conflict with adjoining land uses or have any air quality or noise issues?)	Significant conflict			
		Some potential conflict			
		No conflict			
9.23	If there are significant conflicts, what mitigation measures are proposed?	Details: see paper apart			
Transport and Accessibility					
9.24	Has contact been made with the Council's transport team?	Yes / No Details: as part of historic planning application			
9.25	Is access required onto a Trunk road and if so has contact been made with Transport Scotland?	Yes / No Details: Access onto Wellington Road would be required, but no discussions have taken place to date. This would take place if the site is allocated.			
9.26	Accessibility (is the site currently accessible to bus, rail, or major road network?)		Bus Route	Rail Station	Major Road
		More than 800m		✓	
		Between 400-800m			
9.27	Proximity to services and facilities (How close are any of the following?)	Within 400m	✓		✓
			400m	400-800m	>800m
		Community facilities	✓		
		Local shops		✓	
		Sports facilities	✓	✓	
		Public transport networks	✓		
9.28	Footpath and cycle connections (are there any existing direct footpath and cycle connections to	No available connections			
		Limited range of connections			

	community and recreation facilities or employment? Give the Core Path number if core path is present https://www.aberdeencity.gov.uk/services/environment/core-paths-plan)	Good range of connections	✓
9.29	Proximity to employment opportunities (are there any existing employment opportunities within 1.6km for people using or living in the development you propose?)	None	
		Limited	
		Significant	✓
Infrastructure			
9.30	Physical Infrastructure (does the site have connections to the following utilities?)	Electricity	no, but these can be provided
		Gas	no, but these can be provided
9.31	Does the development have access to high speed broadband?	Yes / No Details: Connections to these can be provided	
9.32	Does the development include a Heat Network/District Heating Scheme?	Yes / No Details: see paper apart	
9.33	How is the development proposing to satisfy the Councils Low and Zero Carbon Policy?	Details: see paper apart	
9.34	Are there any further physical or service infrastructure issues affecting the site?	Yes / No Details:	
Public open space			
9.35	Will the site provide the required level of open space as per the current LDP (Please provide details of your calculations)	Yes / No Details: see paper apart	
9.36	What impact will the development have on the Green Space Network?	Enhance the Network	
		No impact on the Network	
		Negatively impact the Network	
		Please justify your response: see paper apart	

10.	Education	
10.1	Have discussions been had with the Council's Education Department?	Yes / No Details:
10.2	Is there currently education capacity for the proposed development? https://www.aberdeencity.gov.uk/services/education-and-childcare/schools-and-education/schools-pupil-roll-forecasts	Yes / No Details: see paper apart

11.	Community benefits	
	Community benefits can include new community facilities (such as local shops, health, education, leisure and community facilities), affordable housing, green transport links and open spaces. Include elements which you anticipate may be required as developer contributions from the development. (Please note, specific contributions will have to be negotiated with the Council on the basis of the proposal.)	
11.1	Does the development proposal give any benefits to the community? If so what benefits does the development bring, and how would they likely be delivered?	Yes / No Details: see paper apart

12.	Masterplan Development Framework	
12.1	If you have prepared a framework or masterplan showing a possible layout for the site, please include it with this form.	Yes / No Details:

13.	Additional attachments		
	No site is going to be perfect and the checklist above will inevitably raise some potential negative impacts from any development. Where negative impacts are identified, please provide details of their nature and extent and of any mitigation that may be undertaken. Listed below are examples of further information that may be included in your submission;		
		Included	Not Applicable
13.1	Contamination Report		
13.2	Flood Risk Assessment		
13.3	Drainage Impact Assessment		
13.4	Habitat/Biodiversity Assessment	✓	

13.5	Landscape Assessment	✓	
13.6	Transport Assessment	✓	
13.7	Other as applicable (e.g. trees, noise, dust, smell, retail impact assessment etc. please state)	Tree survey Utilities information Noise Assessment	

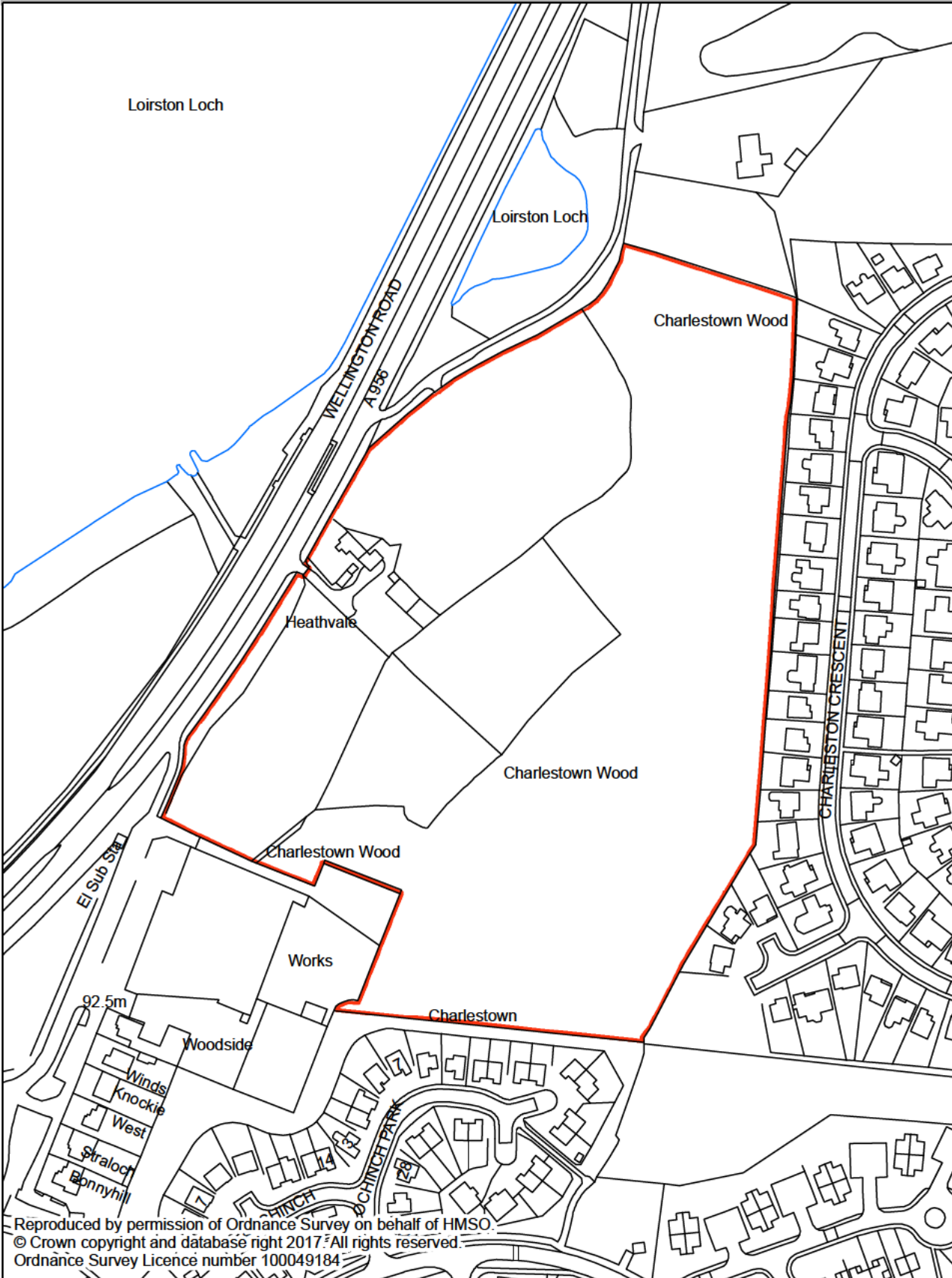
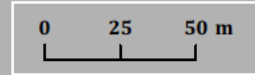
14.	Development Viability		
14.1	Taking into account all the information provided above, and the requirements of the Aberdeen Local Development Plan 2017 and supporting Supplementary Guidance, please confirm that you have assessed the financial viability of your proposed development and found it to be viable for development in the timeframe set out above.	I confirm that I consider the site to be viable as per the details provided above.	✓
		Please provide details of viability: see paper apart	



Reference: **PZ149461/JS**
Version: **2.0**
Date: **October 2017**

Co-ordinates at Centre:
Easting: **394,029**
Northing: **800,900**

Scale:
1:2,500
Paper Size:
A4



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**ABERDEEN LOCAL DEVELOPMENT PLAN REVIEW
PRE-MAIN ISSUES
PROPOSAL FOR A SITE TO BE INCLUDED IN THE MAIN ISSUES REPORT**

FURTHER DETAILS IN RESPONSE TO SPECIFIC QUESTIONS RAISED IN THE BID FORM

HEATHVALE, COVE

Mactaggart & Mickel are part of the Mactaggart and Mickel Group, a family-owned group of companies whose core business is creating high quality homes while leaving a lasting legacy for future generations. Mactaggart and Mickel Homes are an award winning family housebuilder who have been hand-crafting new homes in Scotland for more than ninety years. They currently have developments underway across central Scotland, from Edinburgh to Glasgow and the Ayrshire Coast and are looking to expand into the Aberdeen market.

Cove Bay is a suburb which lies to the south east of Aberdeen. It originated around the fishing industry when it had a population of around 300 people. It has been the subject of significant expansion with the development of the Aberdeen Gateway Business Park, new housing at Charleston and Loirston, as well as the new Lochside Academy and Cove Rangers football stadium which are currently under construction. Cove now has a population of over 7,000 people and lies close to the A90, giving good access to the national road network.

The site at Heathvale is located to the west of Cove. It extends to approximately 6.2 hectares (15.3 acres) and is bounded to the north by Charleston Wood, beyond which lies a single dwellinghouse; to the east by Charleston Crescent; to the south by Lochinch Place and a small industrial complex; and to the east by the A956. The site is generally grazing land, however, land identified as Charleston Wood, containing gorse scrubland, as well as Heathvale Cottage lie within the site boundary of the bid site. The Green Belt status of the site was removed at the previous LDP examination, however, the Green Space Network designation remains and the site is also designated as Urban Green Space in the 2017 Local Development Plan.

The site is identified outlined and red on the map below.



Q6. Legal and Planning History

6.7 Previous LDP Bids – The site has not been the subject of a previous bid, however, a response was submitted to the Proposed Aberdeen Local Development Plan in 2015 on behalf of the landowner. This objected to the Green Belt and Green Space Network designation on the site and requested that these be removed and the site be identified for alternative uses. The justification for this was that the site contained no special landscape features, the site is surrounded by development and offers no opportunities for public access. It also offers nothing in terms of protecting or promoting wildlife and lies outwith the Loirston Loch Local Nature Conservation Site. In addition, Charleston Wood is not identified as a District Wildlife Site.

The Reporter to the LDP examination concluded that, at the time, the site contributed positively to the landscape setting of this approach to Aberdeen. However the character of this approach will change following development of the OP59 Loirston site and OP60 Charleston further south. The site will then be separated by over 500m from other substantial areas of Green Belt. As such, it could not form part of the green belt in any meaningful sense and should be removed from the Green Belt. However, the site was still retained as Green Space Network as the Reporter considered that the site continued to play a positive role by improving the visual amenity of this important approach.

Q7. Proposal

The site is proposed for a residential development and has the capacity to deliver around 120 units, as well as infrastructure, open space, strategic landscaping and the retention of areas of gorse forming part of Charleston Wood. A footpath through Charleston Wood to the east would be provided and this would connect with existing footpaths in the area to improve access to this site. The bid is accompanied by an indicative site layout (Appendix 1) which demonstrates that the site can comfortably accommodate the proposed residential development.

The development would include a mix of houses, including detached, semi-detached and terraced and flatted, 2 – 5 bedrooled properties. An exact mix would be provided in due course taking account of the prevailing market conditions and affordable housing requirements. Affordable Housing will be provided in line with developer obligations requirements at the time of development. Early discussions have taken place with Hillcrest Housing Association, however, no details of tenure have been identified at this stage and this would be clarified as the process progresses.

This bid is supported by a number of studies, including a Tree Survey, Extended Phase 1 Ecological Survey, Services Report, Transport and Access Appraisal Report, Noise Assessment and Landscape Plan which all support the development of the site.

Q8. Engagement and Delivery

8.1 The local community would have been aware of the previous LDP bid process which promoted this site for development. No public consultation has taken place in respect of this specific bid, however, the local community and community council will be consulted if the site is identified for development. This would take the form of exhibitions as part of any major planning application or any consultation required by Aberdeen City Council through the LDP Review process.

8.2 Given the size of the site, it is anticipated that it could be development as one phase, however, the developer is willing to work with Aberdeen City Council to develop a phasing plan, should they consider that this is more appropriate.

8.3 The developer is committed to submitting a planning application as soon as practicable after the site is allocated in the Local Development Plan. Development would commence as soon as a planning and other technical consents are issued and this is expected in year 0-5 post adoption of the plan.

Q9. Sustainable Development and Design

9.2 Exposure - The site has some shelter from northerly winds in the form of trees to the north of the site.

9.4 Slope - The site is generally slopes from north to south, with some higher points to the east where it has a more undulating form. No part of the site has a gradient greater than 1 in 12.

9.5 Flooding - SEPA's Flood Risk maps show that there is no risk of flooding on the site from any river, however, there is some risk from surface water flooding. The proposed SUDs within each area of the site would alleviate any surface water flood issues. A drainage impact assessment would be prepared as part of any planning application for the site.

9.9/9.10 Water and Waste Water - In terms of waste water and water, the existing services report (Appendix 2) demonstrates that connections would be available in the vicinity of the site. An extension to these would be required and new foul and surface water sewers will be provided to service the development and these will be located within the new roads and areas of open space where necessary. It is unknown at this stage if there is capacity in the waste water and water network, however, capacity can be made available if the site is identified for development. This would be investigated and agreed at the appropriate time and is not considered to be an impediment to development.

9.12 Natural Conservation – Although the site is identified in the Aberdeen LDP as Urban Green Space and Green Space Network, it is argued that there is no requirement for these designations. Urban Green Space is more suitable for formal playing fields, unlike this site, which is gorse/scrubland with little opportunity for public access. It is therefore requested that this designation is removed from the site. The layout will retain land for public use and improve access to this and therefore an Urban Green Space designation is not appropriate.

The purpose of the Green Space Network is for wildlife, access, recreation, ecosystem services and landscape value. An extended Phase 1 Ecological Survey Report (Appendix 3) has been carried out for the bid site and the desk top survey states that there are no protected mammal species present on the site. [REDACTED]

A walkover survey was completed and it was noted that the site was subject to significant levels of disturbance in the form of noise from the nearby traffic and nearby construction sites, with peripheral paths being well used by dog walkers. [REDACTED]

It was concluded that Heathvale cottage may offer bat roost potential. The report provides guidance on additional surveys required prior to any development and these can be provided should the site be identified for development.

9.13 Landscape features – A Landscape Appraisal (Appendix 4) has been prepared which identifies landscape features. Land to the east is identified as Charleston Wood, which takes the form of gorse scrubland. This area has no landscape designation over it. A tree survey (Appendix 5) has been undertaken to assess the existing trees on the site, the majority of which are in a fair or poor condition, within category C and U. Category C are classified as being “of low quality with an estimated remaining life expectancy of at least 10 years; unremarkable or very limited merit; trees with no material conservation or other cultural value”. Some are in a poor condition, or dead and require to be removed regardless of development on the site. The U classified trees are trees that have serious structural defects, such that their early loss is expected due to collapse; are dead or showing signs of immediate decline. The trees are therefore of no great significance and many require removal.

The development will retain healthy trees where appropriate and significantly enhance planting on the site to improve these landscape features, which will aid the integration of housing and provide screening to and from the site.

9.14 Landscape Fit - The site is surrounded on three sides by development and on the fourth by established trees. Any development would therefore be seen in the context of this existing development and would not have a significant impact on the landscape character of the Cove area, which has seen significant changes. Large areas of gorse would be retained on site to ensure this element of the landscape is retained at this location. Paths will be integrated through the gorse, linking with existing paths in the area, to improve the accessibility and use of the site.

9.15 Relationship to existing settlements - The site forms a natural expansion of Cove, being located immediately adjacent to existing development and surrounded on three sides by development. It is therefore considered to be infill development and a logical location for new housing. It would provide pedestrian links with Charleston Crescent, which leads onto Charleston Road where bus stops and the primary school is located.

9.16 Land Use Mix – Given the size of the site, it will generally only provide housing, however, it will provide a range of house types, including flatted properties and affordable housing, thereby providing a choice of housing in the area. Open space to the east with footpath provision will ensure land for recreational purposes is provided and is accessible to users in the area.

9.22/9.23 Land Use Conflict – The A956, Wellington Road lies to the west of the site. A Noise Assessment (Appendix 6) has been carried out which concludes that although some of the buildings exceed noise limits for daytime and night time periods, this can be controlled to the required internal noise limits using a strategy of closed windows and alternative means of ventilation. As such, noise from the adjacent road is not an impediment to development.

9.28 Footpath and cycle connections – There are no Core Paths running through the site, but there are a number in close proximity, including Path 78, 80 and 83. A Transport and Access Appraisal Report (Appendix 7) has been prepared for the bid site. It summaries that the surrounding transport network includes facilities for pedestrians in the form of footways on the A956 Wellington Road and Charleston Crescent and a footpath link to Charleston Drive; facilities for cyclists in the form of the shared use path on the eastern side of the A956 Wellington Road; and for bus passengers in the form of services on Old Wellington Road, Charleston Road and Charleston Drive. It is well situated for access to the surrounding transport network and there are no transport related reasons why the site cannot be allocated for development.

9.32/9.33 Heating/Low Carbon Policy – Mactaggart and Mickel Homes, in common with the majority of housebuilders, advocate a fabric first approach to ensure energy conservation and thus minimise

carbon footprint. Appropriate technologies available at the time will also be considered as a means to deliver reduced energy consumption and heat generation.

9.35 Open Space - The site will provide the required level of open space as per the current LDP Policy. Significant areas of open space are proposed within the bid area to the east, south and west which will be well integrated to provide access to areas for all users. A Landscape Plan (Appendix 7) has been prepared to accompany the bid.

9.36 Impact on Green Space Network – the site is currently identified in the Aberdeen Local Development Plan as Green Space Network, however, it is considered that there is merit in the removal of this designation. The purpose of the Green Space Network designation is to protect, promote and enhance the wildlife, access, recreation, ecosystem services and landscape value of the land. However, the Phase 1 habitat survey confirms that, while there may be some wildlife present on the site, appropriate mitigation can be provided to protect these species.

The site has no other landscape value benefits and provides little in terms of landscape value being surrounded on most sides by development. Although the site is used by dog walkers in the area, it is considered that accessibility to the site is poor as many of the surrounding streets are dead ends. The site will retain areas of gorse/Charleston Wood to the east and improve access by creating more formal footpaths through this area.

Q10. Education

No recent discussions have taken place with the Council's Education Department. The 2015 School Roll Forecasts state that Charleston Primary School is forecast to have a rising school roll, predicted to be operating at 179% of capacity by 2023. More recent forecasts should have been carried out by Aberdeen City Council, however, these are not publicly available.

It is understood that a new primary school is to be built as part of OP59 at Loirston and that changes are proposed to the catchment areas of the schools in Cove. Without more up to date forecasts, it is difficult to predict the impact from development on the bid site, however, it is considered that these changes will significantly improve the capacity of Charleston School.

A new Lochside Academy is being built in Cove, which is due to open in Summer 2018, with a capacity of 1,350 pupils. It is anticipated that this school would have capacity for additional development in Cove.

Developer contributions would be agreed, if required during the planning application process and is not an impediment to development.

Q11. Community Benefits

The proposals provide benefits to the local community in the form of housing, including affordable housing and the potential for improved accessibility to the Charleston Wood area to the east of the site.

Q14. Development Viability

Cove is a popular location for housing, given the recent housing developments. This is enhanced through the recent Aberdeen Gateway development, providing employment close to areas of housing. The landowner has invested in promoting the site through previous Local Development Plans and was successful in the removal of the Green Belt designation.

Mactaggart and Mickel now has an option over this site which demonstrates their commitment to the site and its deliverability of the site in the next Local Development Plan. They are confident that there is residual value following development of the site and the provision of necessary infrastructure. The infrastructure constraints have been considered and they are confident that they can be addressed and do not impose an impediment to development.

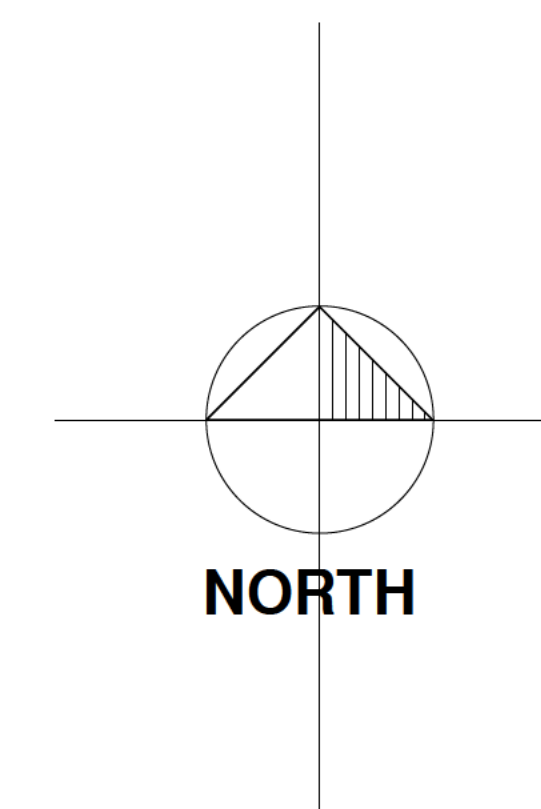


Schedule
Site Area - 6.2 ha

120 Units

30 Open market Flatted Units
30 Affordable Flatted Units
60 House Plots

- 6 No Adam (A)
- 20 No Bryce Detached (B1)
- 14 No Bryce Semi (B2)
- 14 No Douglas (D)
- 6 No Miller (M)
- 30 No 600 sq.ft 2 bed flat 3 Storey (F1)
- 30 No Affordable 600 sq.ft 2 bed flat 3 storey (F2)



Rev	Description	Date



47 Victoria Street, Aberdeen, AB10 1QA
T : (01224) 639295 F : (01224) 637956
E: mail@mrtarchitects.com W: www.mrtarchitects.com

Project
RESIDENTIAL DEVELOPMENT

HEATHVALE
CHARLESTON, ABERDEEN
Drawing
INDICATIVE SITE LAYOUT PLAN

Scale 1:1000@A1

Status PRELIMINARY

Date SEP '17 Drawn By AHT

Project No. 2075	Drawing No. L(00)02
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Existing Services

124007: Residential Development - Heathvale Cove, Aberdeen

December 2017



FAIRHURST

Contents

Location Plan
Openreach BT
Line Search Before U Dig
Scottish and Southern Energy
Scottish Water

Appendix

SGN results from Line Search

Disclaimer

Fairhurst does not accept liability for the accuracy of record information provided by others and contained within this document.

A desktop utility records search older than 90 days must be classed as historical and used with caution.

Read this document alongside HSE HSG47 'Avoiding danger from underground services' and published guidance from utility providers. Attention is also drawn to the New Roads and Street Works Act 1991 (NRSWA).

Only leading utility providers have been approached. The utility providers referred to within this document do not necessarily represent an exhaustive list of utility providers.

Utility records alone are not sufficient to identify and locate services before starting work. Utility records provide basic information on which to base a thorough site survey before work begins. Safe excavation practices, in accordance with HSG47, must be used to verify and establish the actual position of apparatus, before mechanical plant is used.

Damage to underground services can cause fatal or severe injury as well as significant disruption and environmental damage; it can also delay the project and incur considerable costs.

Appendix

Do not scale from this drawing.



Rev.	Date	Description	Drawn	Checked	Approved
------	------	-------------	-------	---------	----------

GRID REFERENCE - NJ 94045 00911

Project Title:
**RESIDENTIAL SITE
 HEATHVALE, COVE
 ABERDEEN**

Drawing Title:
LOCATION PLAN

FAIRHURST

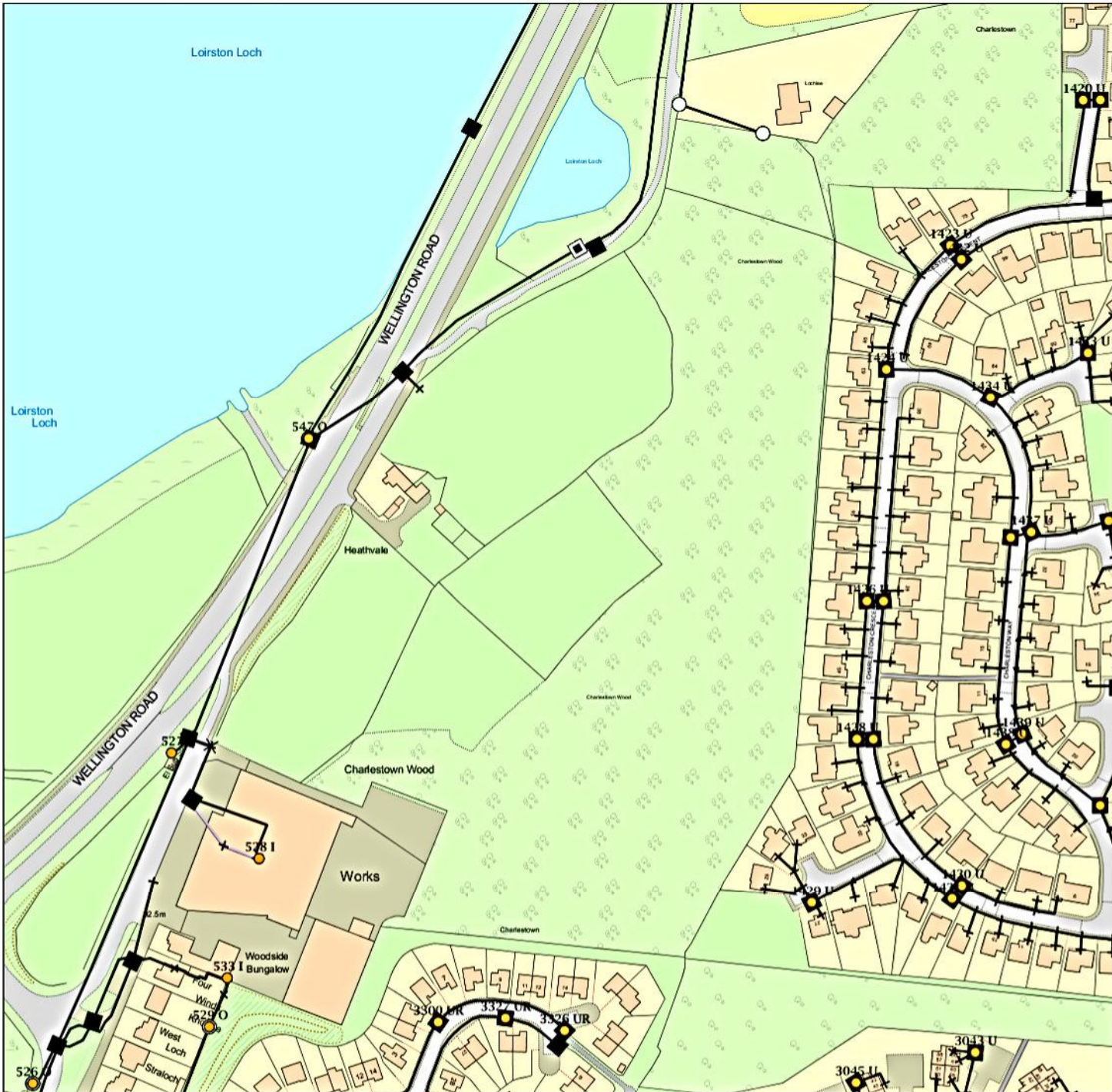
88 Queens Road,
 ABERDEEN, NJ 07005
 Tel: 01224 321 222 Fax: 01224 323 201

Scale at A4:	Status:
NTS	For Information

Drawn:	Checked:	Approved:
CR		
Date:	Date:	Date:
11/12/17		

Drawing No.:	Revision:
0001	-

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

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KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above maybe disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation

BT Ref : XHH02591T

Map Reference : (centre) NJ9404500911

Easting/Northing : (centre) 394045,800911

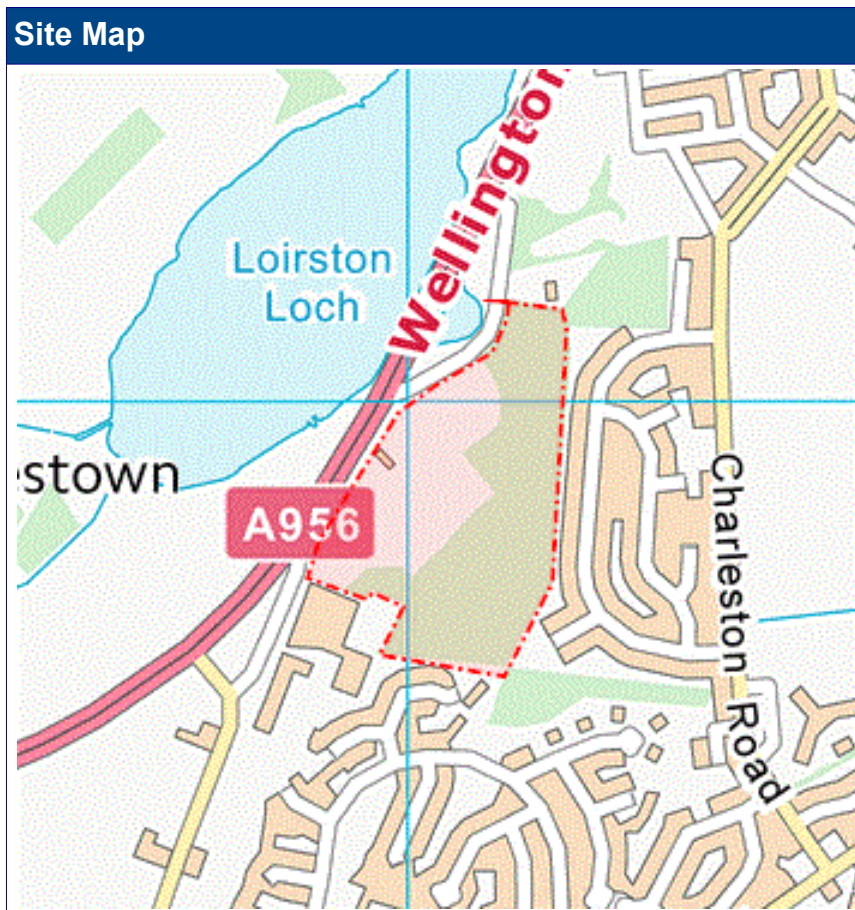
Issued : 08/12/2017 14:59:54

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

Enquirer			
Name	Mr Craig Riddell	Phone	01224 321222
Company	Fairhurst	Mobile	Not Supplied
		Fax	Not Supplied
Address	88 Queens Road Aberdeen Aberdeen City AB15 4YQ		
Email	craig.riddell@fairhurst.co.uk		
Notes	Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.		

Enquiry Details			
Scheme/Reference	124007		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	09/12/2017	Work type	Commercial/industrial
End date	31/12/2017	Site size	63375 metres square
Searched location	XY= 394045, 800911 Easting/Northing	Work type buffer*	25 metres
Confirmed location	394051 800925		

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.



Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lineasearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. **LSBUD Members who have assets registered within your search area. ("Affected")**
 - a. These LSBUD Members will either:
 - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
 - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. **LSBUD Members who do not have assets registered within your search area. ("Not Affected")**
3. **Non LSBUD Members who may have assets within your search area.** Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

National Grid. Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
SGN	08009121722	0800111999	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members

AWE Pipeline	Gamma	Premier Transmission Ltd (SNIP)
BOC Limited (A Member of the Linde Group)	Gateshead Energy Company	Prysmian Cables & Systems Ltd (c/o Western Link)
BP Exploration Operating Company Limited	Gigaclear PLC	Redundant Pipelines - LPDA
BPA	Humbly Grove Energy	RWEnpower (Little Barford and South Haven)
Carrington Gas Pipeline	IGas Energy	SABIC UK Petrochemicals
CATS Pipeline c/o Wood Group PSN	INEOS FPS Pipelines	Scottish Power Generation
Cemex	INEOS Manufacturing (Scotland and TSEP)	Seabank Power Ltd
Centrica Storage Ltd	NOVYN Enterprises Limited	Shell (St Fergus to Mossmorran)
CLH Pipeline System Ltd	Intergen (Coryton Energy or Spalding Energy)	Shell Pipelines
Concept Solutions People Ltd	Mainline Pipelines Limited	SSE (Peterhead Power Station)
ConocoPhillips (UK) Ltd	Manchester Jetline Limited	Total (Colnbrook & Colwick Pipelines)
DIO (MOD Abandoned Pipelines)	Manx Cable Company	Total Finaline Pipelines
E.ON UK CHP Limited	Marchwood Power Ltd (Gas Pipeline)	Transmission Capital
EirGrid	Melbourn Solar Limited	UK Power Networks
Electricity North West Limited	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Uniper UK Ltd
ENI & Himor c/o Penspen Ltd	Northumbrian Water Group	Vattenfall
EnQuest NNS Limited	NPower CHP Pipelines	Veolia ES SELCHP Limited
EP Langage Limited	O kos Storage Limited	Western Power Distribution
ESP Utilities Group	Ørsted	Westminster City Council
ESSAR	Perenco UK Limited (Purbeck Southampton Pipeline)	Wingas Storage UK Ltd
Esso Petroleum Company Limited	Petroineos	Zayo Group UK Ltd c/o JSM Group Ltd
Fulcrum Pipelines Limited	Phillips 66	

The following Non-LSBUD Members may have assets in your search area. It is **YOUR RESPONSIBILITY** to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08009173993	Not Notified
CityF bre	asset.team@cityfbre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Energetics Electricity	plantenquiries@energetics-uk.com	01698404646	Not Notified
ENGIE	nrswa@cofely-gdfsuez.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
GTT (formerly Hibernia Networks)	owen.maguire@gtt.net	01704 322 300	Not Notified
Interoute	interoute.enquiries@plancast.co.uk	02070259000	Not Notified
KPN (C-/Instalcom)	kpn.plantenquiries@instalcom.co.uk	n/a	Not Notified
Level 3 Communications UK Ltd (C-/Instalcom)	plantenquiries@instalcom.co.uk	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turmtown.com	01212 621 100	Not Notified
Scottish and Southern Energy	asset.data@sse.com	01256337294	Not Notified
Scottish Water	searches@scottishwater.co.uk	01382563666	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified
Vtesse Networks	https://plant.interoute.com/plant-enquiries/	01992532100	Not Notified

Disclaimer

Please refer to LineSearchbeforeUdig's Terms of Use for full terms of use available at www.linesearchbeforeudig.co.uk

The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LineSearchbeforeUdig will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LineSearchbeforeUdig, including but not exclusively those set out above. Therefore, LineSearchbeforeUdig cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LineSearchbeforeUdig and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.

Watch it!

Safety advice brought to you by Scottish and Southern Electricity Networks

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

The Electricity at Work Regulations 1989 impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

Regulation 14 requires that: "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger may arise unless:

- ◆ it is **unreasonable** in all circumstances for it to be dead; and
- ◆ it is **reasonable** in all circumstances for him to be at work on or near it while it is live; and
- ◆ suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal injury from electricity in work activities.

Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground Services', and the Appendix 1 deals specifically with electric cables. Copies are available from the HSE's Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from the Health and Safety Executive's website - www.hse.gov.uk.

Note

In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult Scottish and Southern Electricity Networks immediately. Tel. 08457 708090 for southern England or 0800 300999 for Scotland.

Additional copies of these "Watch it!" leaflets can be obtained from our Asset Data Team office upon request. Tel. 01256 337294, or Fax 01256 337295.

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

Watch it! - Working in the vicinity of underground cables

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by Scottish and Southern Electricity Networks. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major circuits form an extremely important link in Scottish and Southern Electricity Networks' networks, and damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below:

- ✓ **do** make sure you have plans of the underground cables in the area **before** any excavation work starts. Remember that some cables may not be shown on plans. If carrying out emergency work, excavate as though there are buried live cables in the vicinity.
- ✓ **do** use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- ✓ **do** ask for a cable to be made dead if it is buried in concrete.
- ✓ **do** watch for signs of cables as work progresses. Note any marker-tape or cable-cover, which may be exposed

- ✓ **do** backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
- ✓ **do** notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
- ✓ **do** make sure before starting to demolish a building that all cables have been disconnected. We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
- ✓ **don't** operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
- ✓ **don't** use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. **Never** throw a fork or sharp instrument into the ground.
- ✓ **don't** dig trial holes over the indicated route of the cable. Excavate alongside instead.
- ✓ **don't** use exposed cables as a convenient step or handhold.
- ✓ **don't** handle or attempt to alter the position of any cable.

Remember that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

Watch it! - Working in the vicinity of overhead lines

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below

- ✓ **do** carefully note the position of all overhead lines before commencing work.
- ✓ **do** co-operate with us during planning and sitework stages.
- ✓ **do** follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
- ✓ **do** keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
- ✓ **do** remember that the raising or slewing of a crane or excavator jib may cause danger when operating near an overhead line.

- ✓ **do** avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
- ✓ **do** warn others to keep well clear.
- ✓ **don't** drive a high vehicle below an overhead line when an alternative route is available.
- ✓ **don't** raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
- ✓ **don't** steady any suspended load until you are satisfied that there is no danger from overhead lines.
- ✓ **don't** handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
- ✓ **don't** transport long objects beneath overhead lines, unless they are carried in a horizontal position.
- ✓ **don't** approach or touch any broken or fallen overhead lines.

Always remember that:

- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

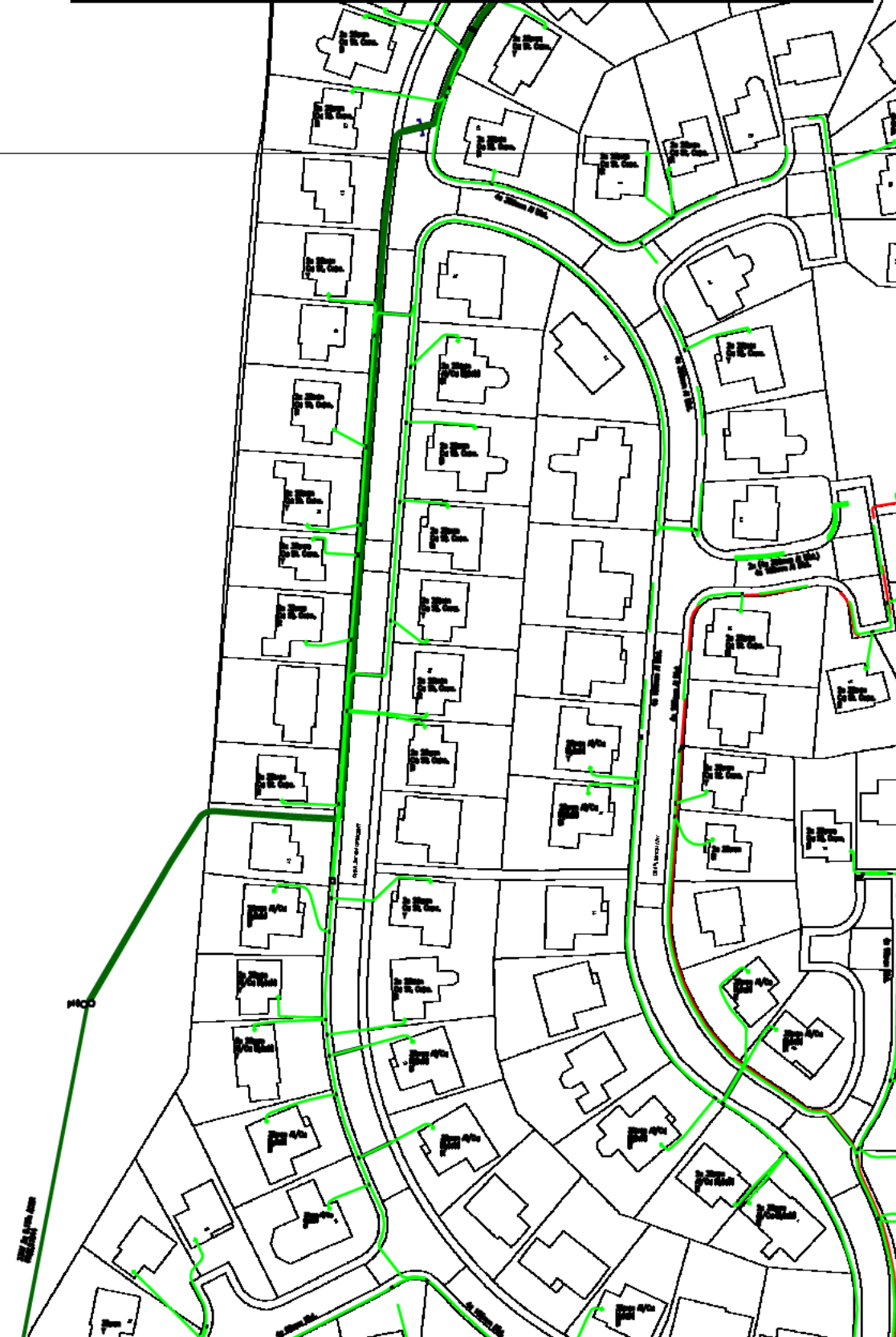
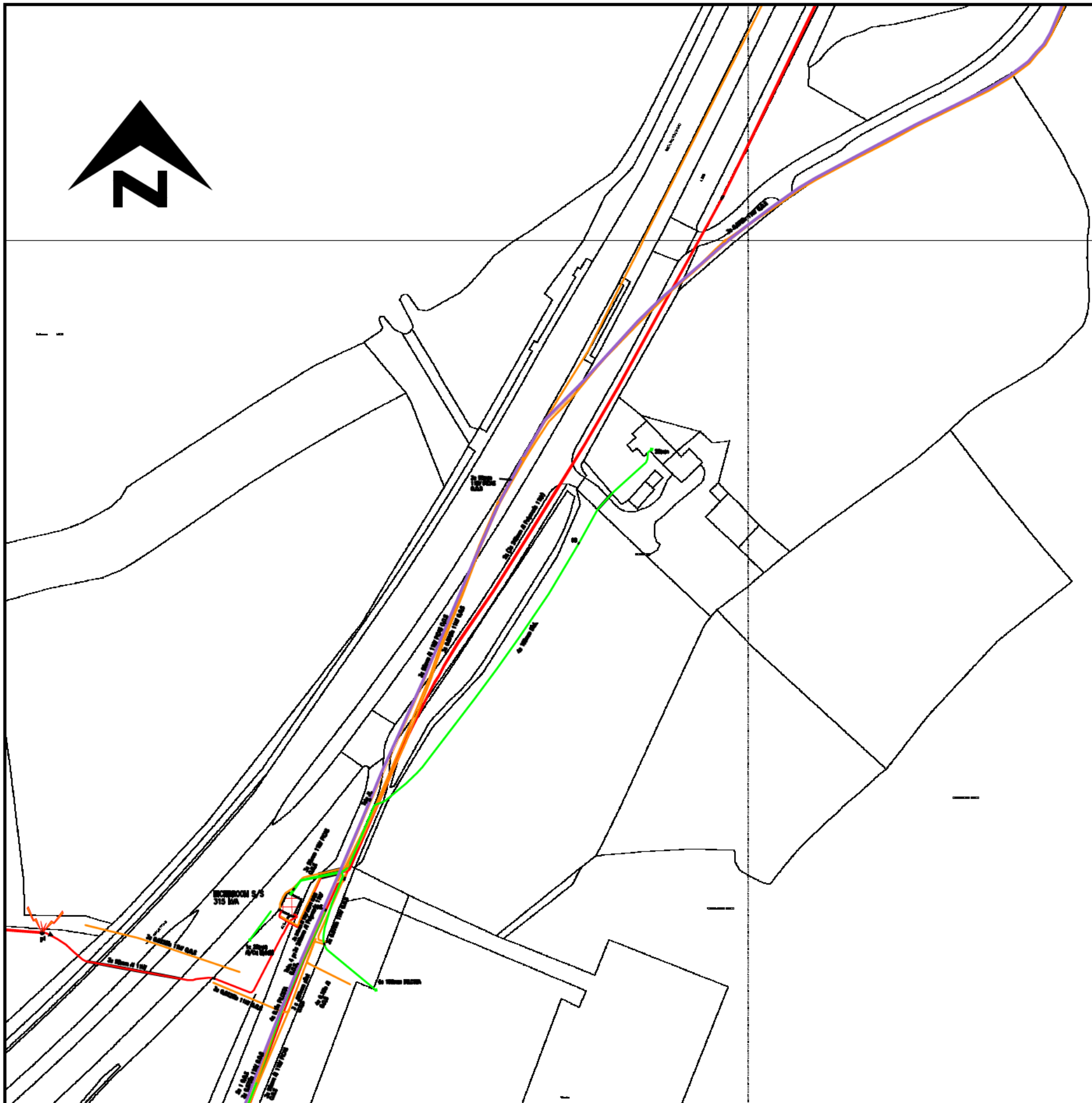
In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.

Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at No.1 Forbury Place 43 Forbury Road Reading RG1 3JH which are members of the SSE Group www.ssen.co.uk



WARNING

EHV CABLES & LINES IN PLOT AREA



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID.

	services l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m 0.75m
ROAD CROSSING	0.60m	0.60m	0.75m 0.90m
l.v./services	- up to 1000V.		
h.v.	- over 1000V to 11,000V.		
e.h.v.	- 22,000V to 132,000V.		

WARNING


There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (C) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from THE HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

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Scottish Hydro Electric Power Distribution plc,
 Registered in Scotland No. SC213460
 and Scottish Hydro Electric Transmission plc,
 Registered in Scotland No. SC213461 both
 having their registered Office: at Inveralmond House
 200 Dunkeld Road Perth PH1 3AQ

UNCONTROLLED COPY
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 NORTH EAST DISTRICT
 Tel: 01224 667200

Grid Ref: nj94040091
 Scale: 1:1250
 Date: 08/12/2017
 All Voltages

SMALLWORLD GIS – WASTEWATER LEGEND



Pipework

- Combined (red)
- Foul (brown)
- Surface Water (blue)
- Natural Water (light blue)
- CSO (dark blue)
- Trade Effluent (brown)
- Treated Effluent (black)
- Abandoned (grey)
- Water Course (dark green)
- PFI sewer (bright green)
- Rising Main (red)
- Proposed sewers (foul, combined and surface water)
- Syphon
- Chamber (same colour as pipework)
- Dual Chamber (same colour as pipework)
- Surface Water Chamber



Collapse/Choke (not visible by default)



Combined Storm Overflow



Connection (not visible)



Duct



Ghost Node (not visible by default)



Hatchbox



Hydraulic Control Chamber



Lamphole



Change of Attributes



Outfall



Inlet



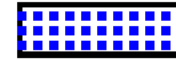
Pumping Station



Wash Out



Bifurcation Chamber



Balancing Pond



Rodding Eye



Septic Tank



Sewer Junction



Sewer Structure



Sewerage Air Valve



Sewerage Pipe Bridge



Sluice Valve



Storm Tank



Unknown End



Treatment Plant



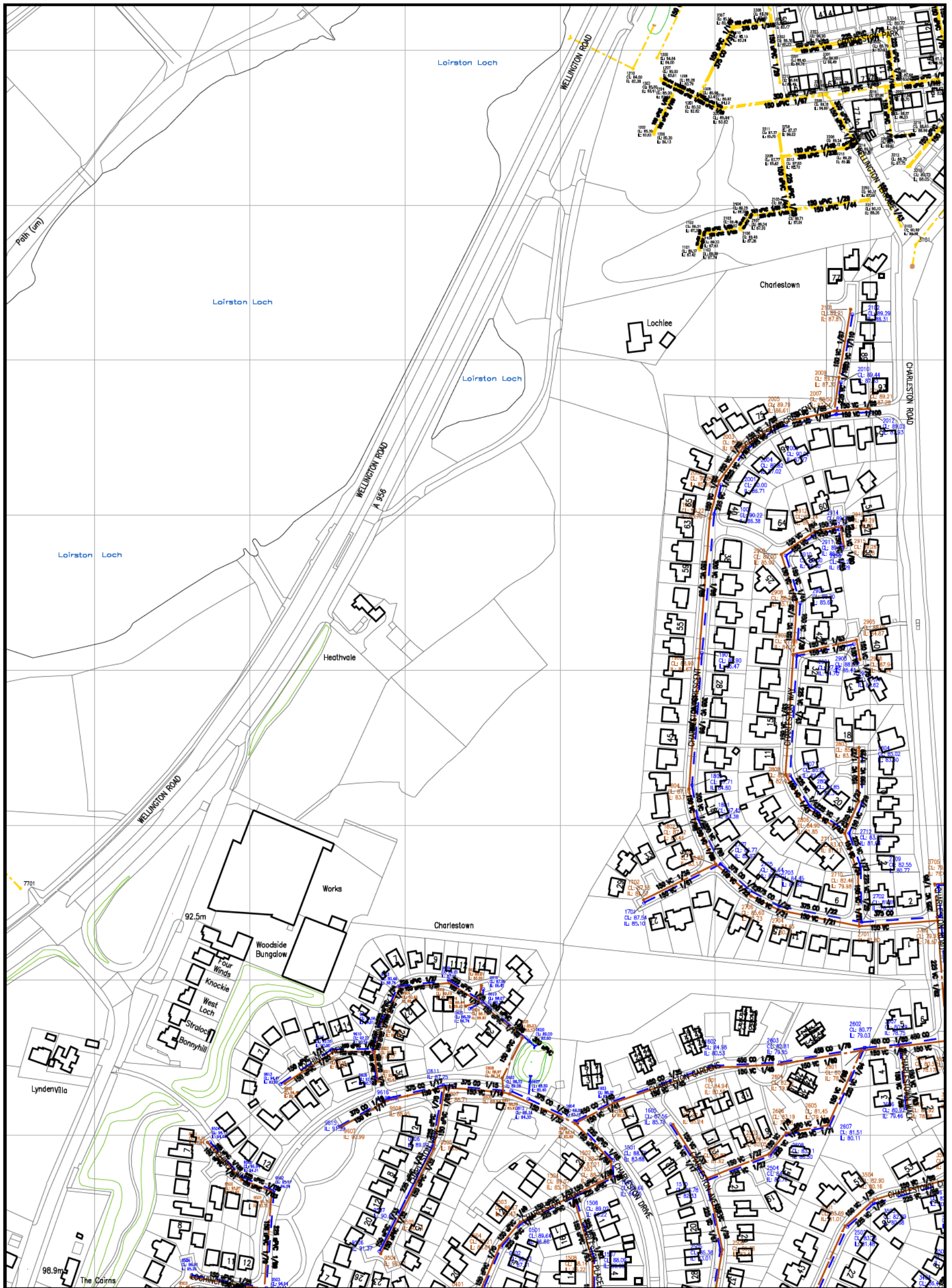
Vent Column



Buchan Trap



Capped End (same colour as pipework)



0 170 metres

The representation of physical assets and the boundaries of areas in which Scottish Water and others have an interest does not necessarily imply their true positions. For further details contact the appropriate District Office.

OP/PVSE305
Wastewater Plan

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Plotted By: MUC01



Castle House,
6 Castle Drive,
Dunfermline,
KY11 8GG

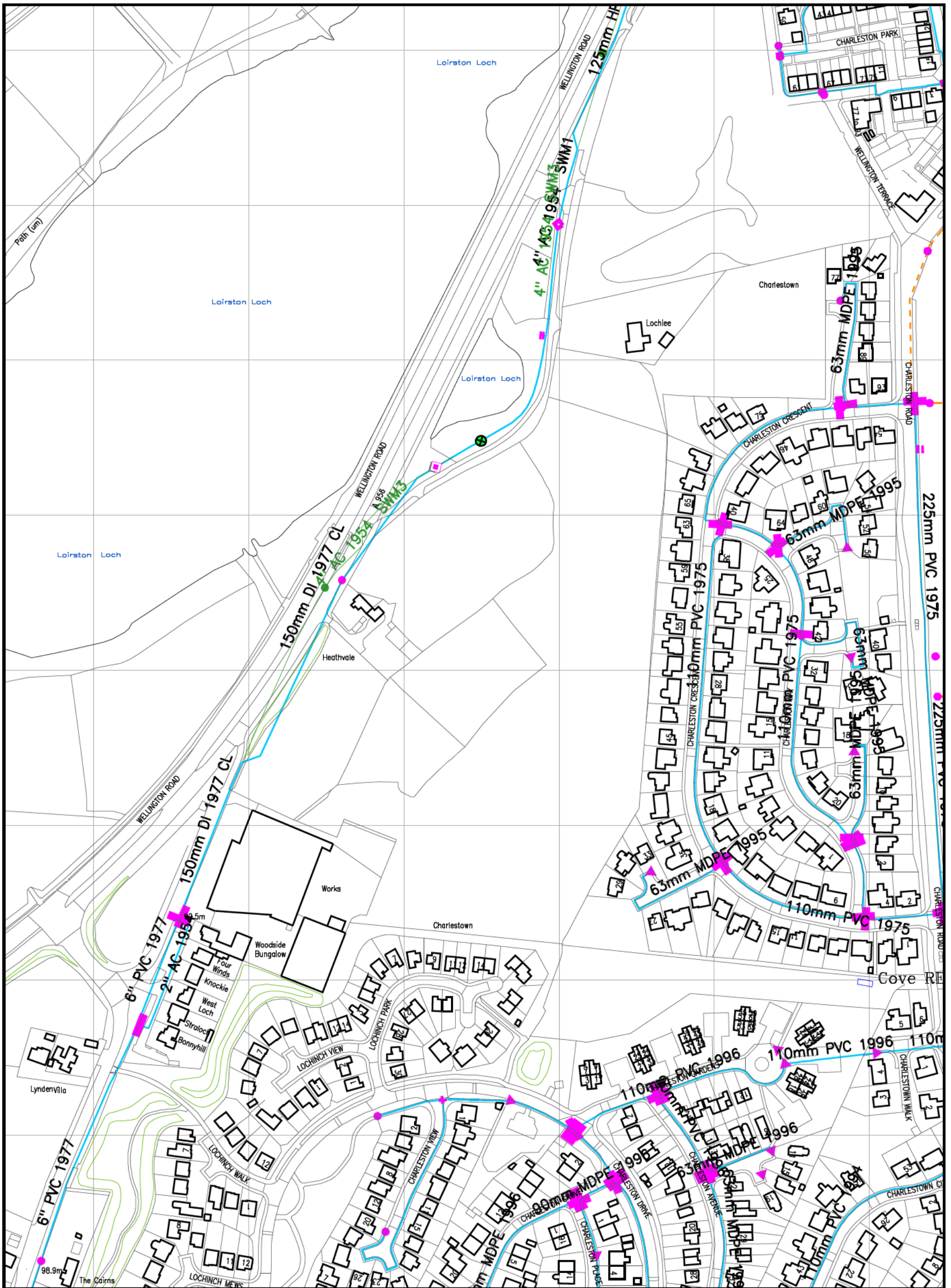
Date Plotted: 08/12/2017

Scale: 1:2500

Tel No: 0845 601 8855

SMALL WORLD GIS WATER LEGEND

	Trunk Main (in use)		Tapping		Bulk Meter		Water Treatment Works
	Distribution Main		Field trough		Revenue Meter		Pressure Reducing Valve
	Raw Water Main		Other fitting		Meter Cable		Pressure Sustaining Valve
	Mains (abandoned)		Orifice Plate		Meter Display Unit		Reflux (Non-Return) Valve
	Mains (proposed)		Meter Point		Pumping Station		Washout (Scour) Valve
	Mains (isolated)		Cleansing Cock		Booster Station		Control Valve
	Communication Pipe		Coupling		River Intake		Pressure Relief Valve
	Supply Pipe		Flow Restrictor		Spring Intake		Altitude Valve
	Tunnel		Taper		Borehole Intake		Level Control Valve
	Open Course		Change Collar		Other Company Intake		Valve - Other
	Aqueduct		End Cap		Clear Water Tank		BC WSZ Valve
	Logical Service Link		Stopcock		Service Reservoir		BC DMA Valve
	Duct		Sample Point		Impounding Reservoir		BC WOA Valve
	Air Valve Double		Service Point		Pumped Storage Reservoir		BC PRA Valve
	Air Valve Single		Hatchbox		Storage Tank		BC PCC Valve
	Anode		Chemical Dosing Point		Storage - Other		BC PSA Valve
	Hydrant : Terminal		Break Pressure Tank		Balancing Tank - Current		Pipebridge
	Hydrant : Fire						
	Dialysis Patient						



0 170 metres

The representation of physical assets and the boundaries of areas in which Scottish Water and others have an interest does not necessarily imply their true positions. For further details contact the appropriate District Office.

OP/PVSE305

Water Plan

Date Plotted: 08/12/2017

Scale: 1:2500

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Plotted By: MDC101



Castle House,
6 Castle Drive,
Dunfermline,
KY11 8GG

Tel No: 0845 601 8855

SGN results from Line Search



Our Ref: 11805054 Your Ref: 124007

Friday, 08 December 2017

Craig Riddell
88 Queens Road
Aberdeen
Aberdeen City
AB15 4YQ

Dear Craig Riddell

Thank you for your enquiry dated Friday, 08 December 2017

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. **On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.**

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the 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 relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

If you require any further information please do not hesitate to contact us.







































Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk
Tel: 0800 912 1722

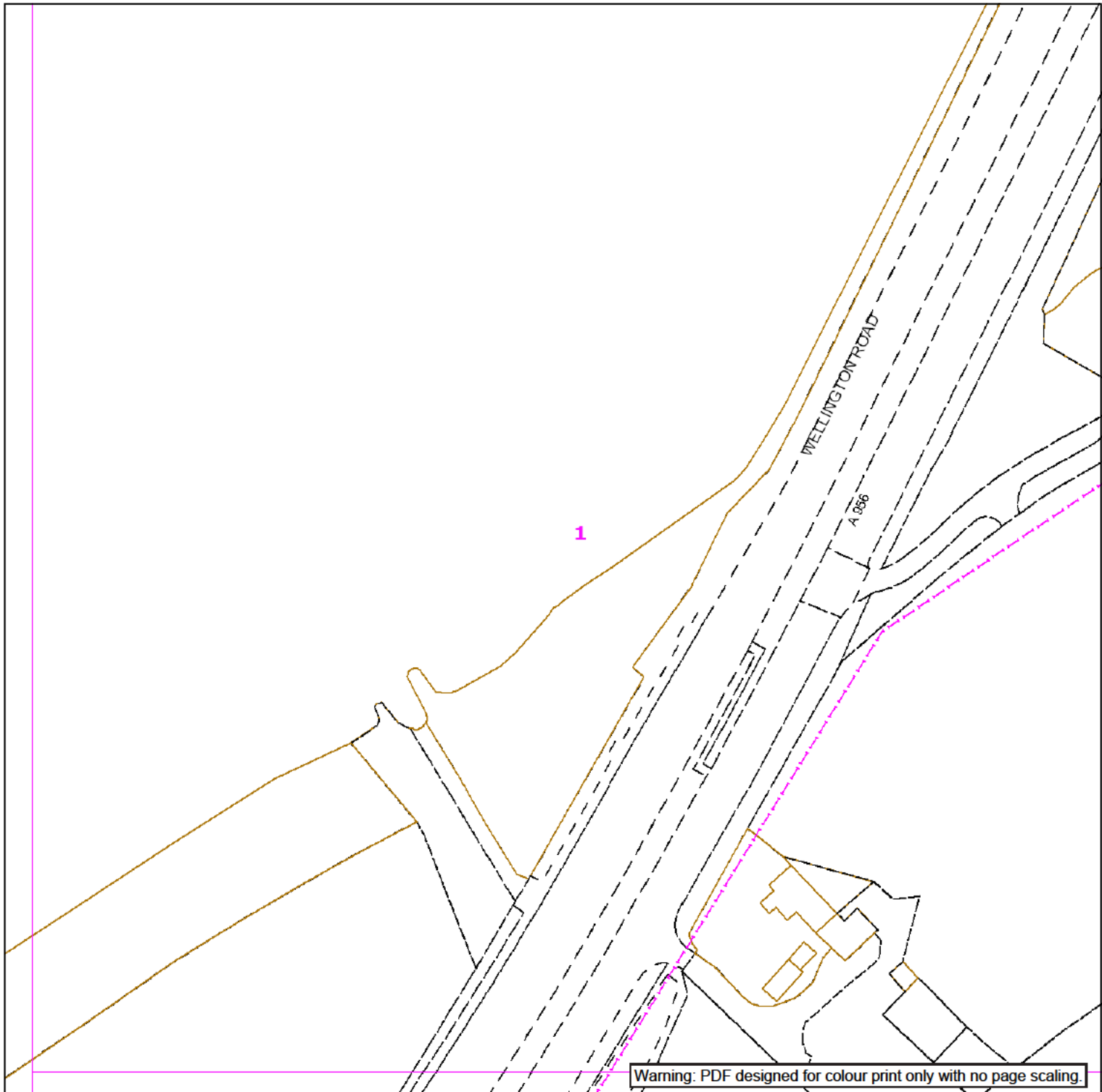
Smell gas?
Call 0800 111 999

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Registered in England & Wales No. 04958135
Registered Office: St Lawrence House | Station Approach | Horley | Surrey RH6 9HJ

Authorised and regulated by the Financial Conduct Authority

Map Symbols

						
VALVE OPEN	VALVE CLOSED	GOVERNOR	END CLOSURE	SYPHON	REDUCER	TEE
						
TEST POINT	CATHODIC PROTECTION	GENERAL REFERENCE	FLOW MEASURE	DIP POINT	MONO ETHYLENE GLYCOL	OILING POINT
						
FLOW STOP	PRESSURE MEASUREMENT	STAND PIPE	OFFICIAL MINISTRY RECORD	PURGE POINT	GAS CONDITIONER	DRAIN POINT
						
SKETCH BUBBLE	DEPTH OF COVER	METER	MATERIAL CHANGE	LP MAINS	MP MAINS	IP MAINS
						
PIG TRAP	CROSSOVER CONNECTION	CHANGE OF DIAMETER	PIPE JOINT	LHP MAINS	HISTORY DATA	SSSI
						
				GTs	CONTACT ZONE	LTS



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Low Pressure Mains		History Data	
Medium Pressure Mains		LAs	
Intermediate Pressure Mains		GTs	
High Pressure Mains		SSSIs	
Some Examples Of Plant Items			
Valve		Syphon	
		Depth of Cover	
		Diameter Change	
		Material Change	

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0800 912 1722
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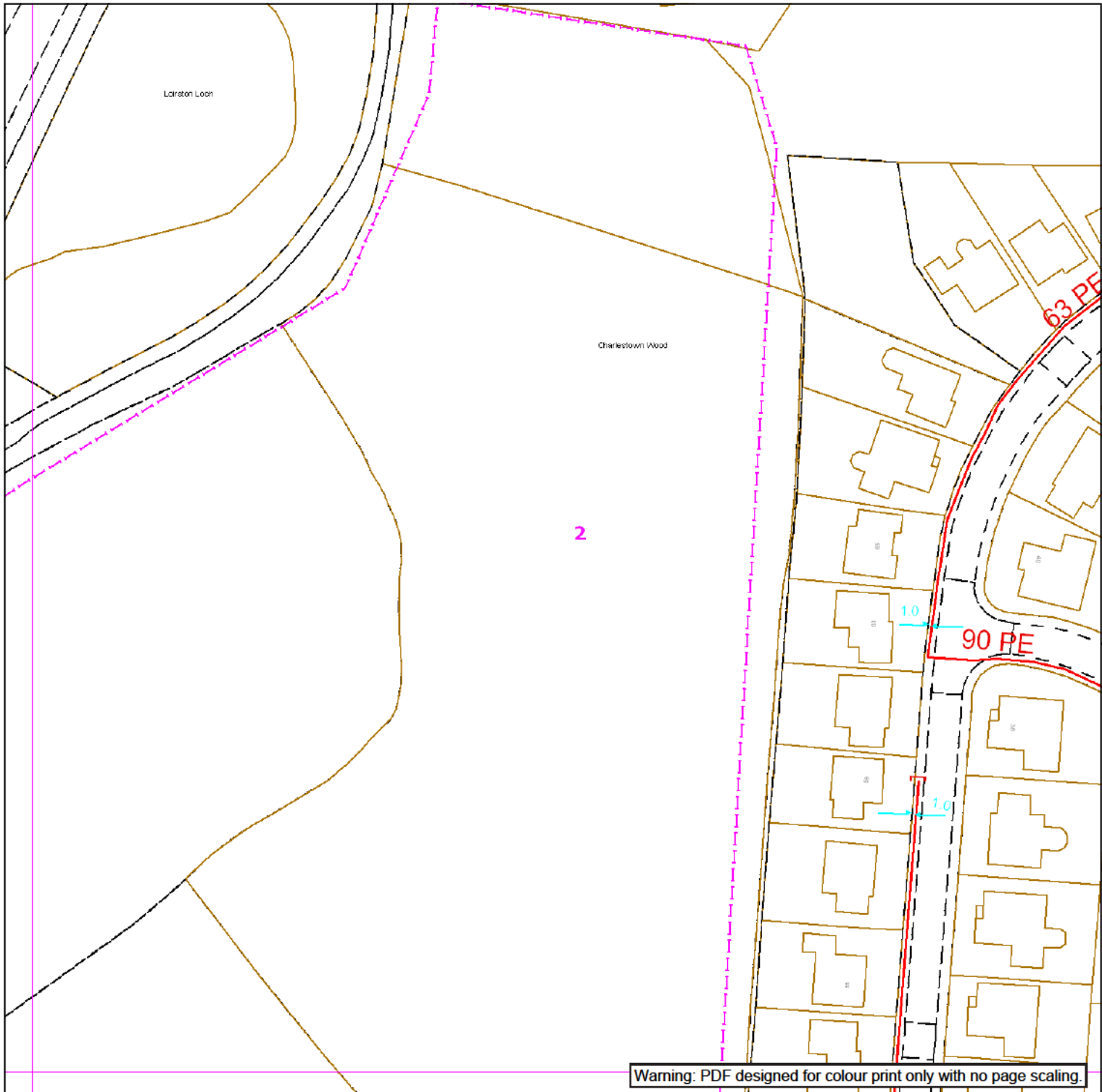
Date Requested: 08/12/2017
Job Reference: 11805054
Site Location: 394029 800911
Requested by:
Mr Craig Riddell
Your Scheme/Reference:
124007

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, syphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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Medium Pressure Mains		LAs	
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High Pressure Mains		SSSIs	
Some Examples Of Plant Items			
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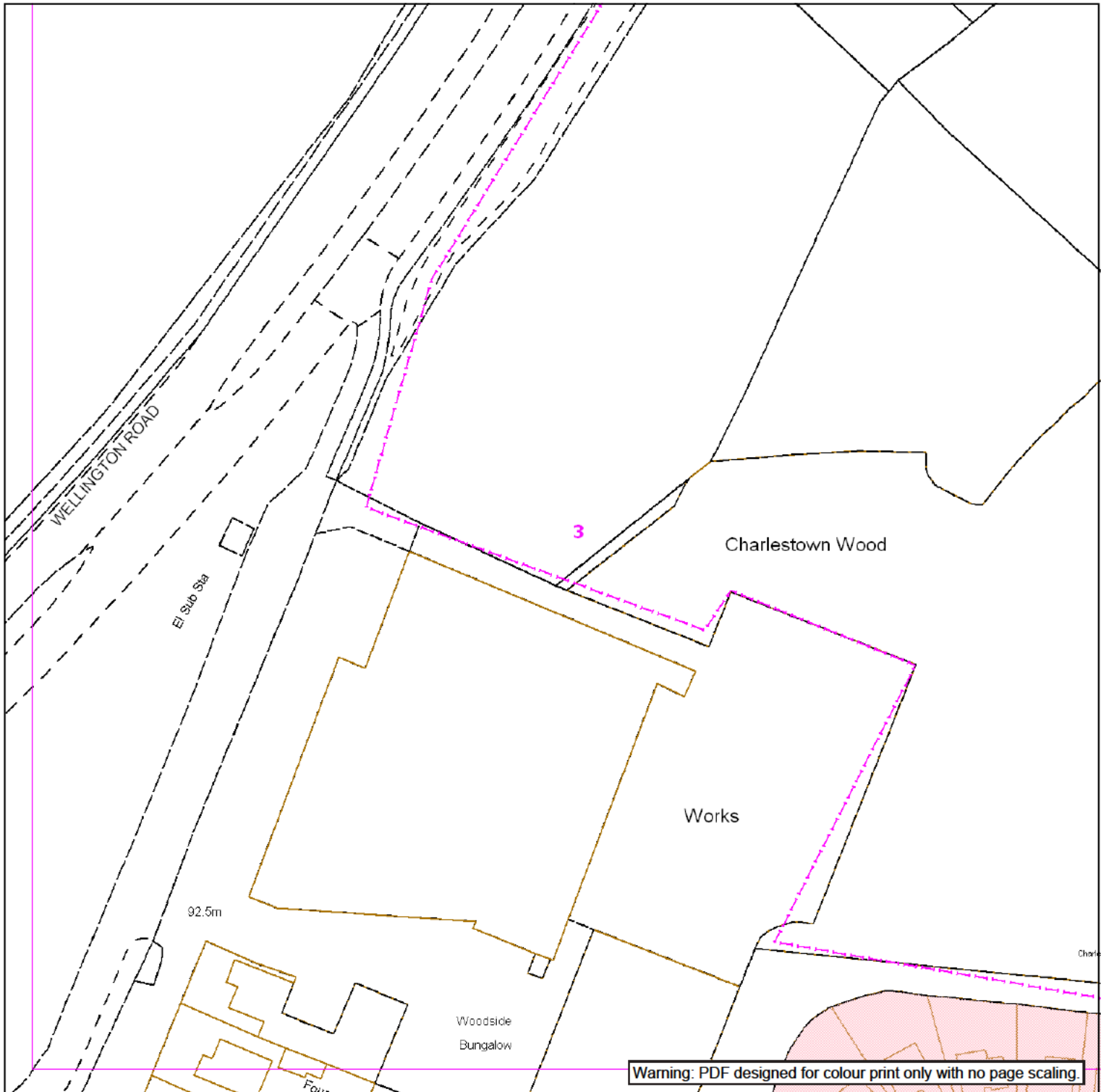
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Low Pressure Mains		History Data	
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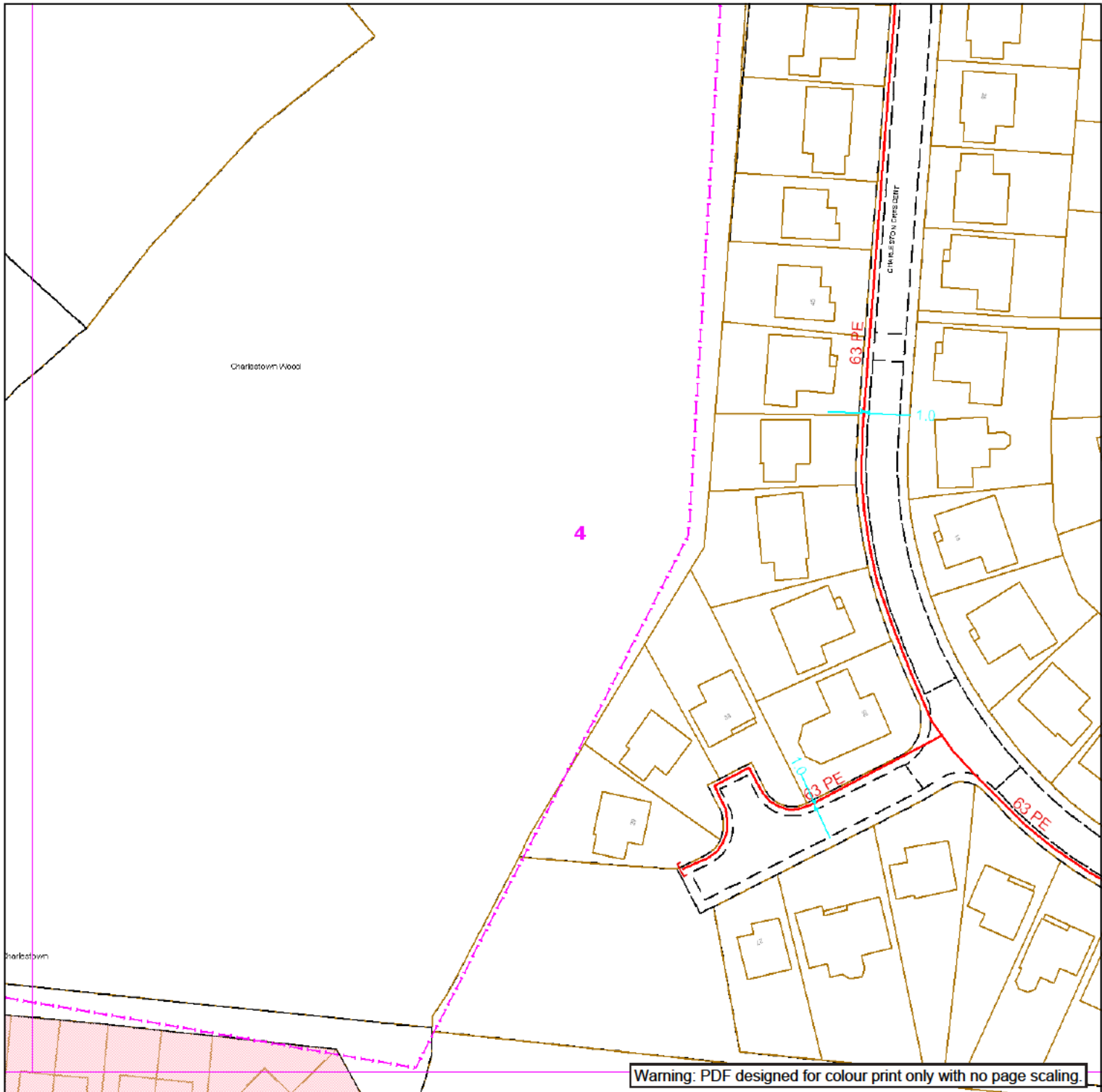
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Low Pressure Mains		History Data	
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Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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SGN

Your gas. Our network.

Dig safely

Measures to avoid injury
and damage to gas pipes



The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.

HS(G)47 outlines best practice that should be followed to ensure you work safely:

1. Plan the work, obtain maps.
2. Detecting, identifying and marking underground services.
3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employed), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.

In a gas emergency

If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you **MUST** take the following emergency actions immediately:

- Ask people to move away from the area of the gas escape.
- Call **0800 111 999** immediately.

1. Don't attempt to repair the escape or stop the leakage.
2. As gas may enter buildings, ask people in the surrounding premises to leave until it's safe for them to return.
3. Stop anyone going near the immediate vicinity of the gas escape.
4. Prohibit smoking and extinguish all naked flames.
5. Don't use mobile phones or other ignition sources.
6. Assist our representatives and other emergency services such as the police, ambulance, and fire service as requested.

Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 **Avoiding Danger from Underground Services** available from hse.gov.uk
- NJUG **Utilities Guidance on Positioning and Colour Coding of Apparatus** available from njug.org.uk





Making an enquiry for gas mains or services maps

Please visit our **Dig safely** pages on sgn.co.uk for plant protection information and links to our online mapping system and other associated information and guidance.

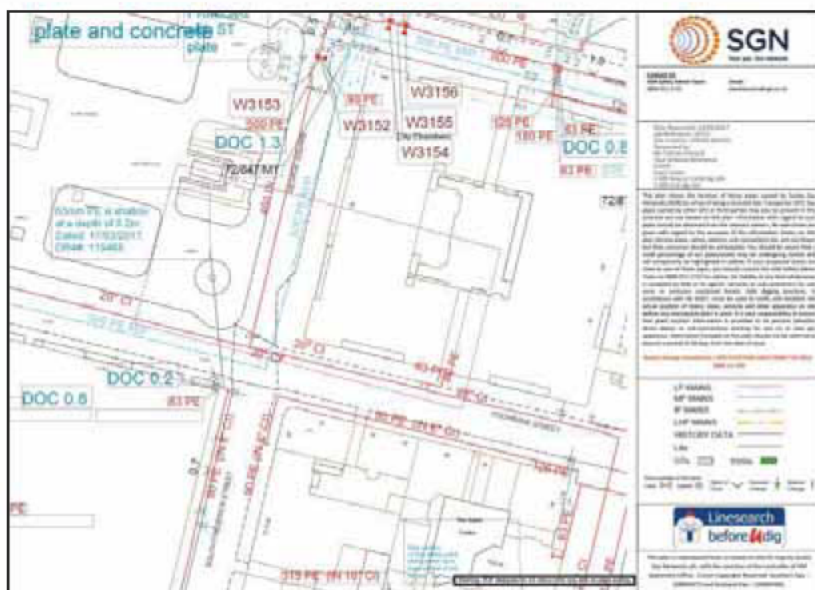
Our simple and easy to use online mapping system is available 24/7, 365 days a year.

You'll need to register/log in and provide a few details about your site location and the work you'll be carrying out. We'll respond immediately by email.

What you're likely to be sent

You'll be sent an email with a map. This will be an extract from our gas mains record, showing your site and any of our gas pipes as well as relevant safety information.

We always send out safety information, however we may forward your enquiry on to a local plant protection officer or a pipelines engineer to make direct contact with you depending on the work location.



Example of a gas map

Note: Service pipes are not shown on our maps

When working near our gas mains and services

Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services **MUST** be made within your site Health and Safety file.

Financial

Every reasonable precaution **MUST** be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

HSE

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that **MUST** be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

Surface boxes and manholes

Do not bury or move our surface boxes. Free access **MUST** be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

Deep excavations

Adequate protection, approved by us, **MUST** be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains **MUST** be prevented. We **MUST** be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You **MUST** give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.



Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You **MUST NOT** carry out any work in servitudes/easements without our prior written consent.

Exposed plant

Where excavations in the vicinity of our gas mains affect its support, the plant **MUST** be adequately supported and protected in consultation with us and to our satisfaction. It **MUST** be protected from impact, restraints and thrust blocks, and supports **MUST NOT** be removed without our agreement.

Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

Backfilling

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering **MUST** be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains **MUST** conform to the following:

- If sand, it **MUST** be well-graded in accordance with BS EN 12620:2002.
- It **MUST NOT** contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete **MUST NOT** be used.
- It **MUST** be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming **MUST NOT** take place until a 300mm hand rammed layer has been completed over the crown of the main.

Access





Free access to our sites, mains and services, including temporary structures and spoil heaps **MUST** be available at all times.





Mechanical excavation

Mechanical excavators (including breaker attachments) **MUST NOT** be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services	Gas map identification	Hand excavation required inside	Pipe pressure indication shown on map
Low Pressure (LP)	0 - 75mbar	0.5 metres	
Medium Pressure (MP)	75mbar to 2 bar	0.5 metres	
Intermediate Pressure (IP)	2 - 7 bar	3.0 metres	
High Pressure (HP)	Above 7 bar	You must seek approval from us prior to any work	

Major accident hazard pipelines

High pressure pipeline

No work is to take place near an HP pipeline until it is agreed with us. After agreement and before any work does take place, the location of our pipeline **MUST** be marked up and its position confirmed by digging trial holes with our personnel in attendance.



Pipeline markers

High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you **MUST** familiarise yourself with before carrying out any work.

The default method of excavating near high pressure gas pipelines MUST always be by hand.



Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.



Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted **MUST** be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us **MUST** be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) **MUST NOT** be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.



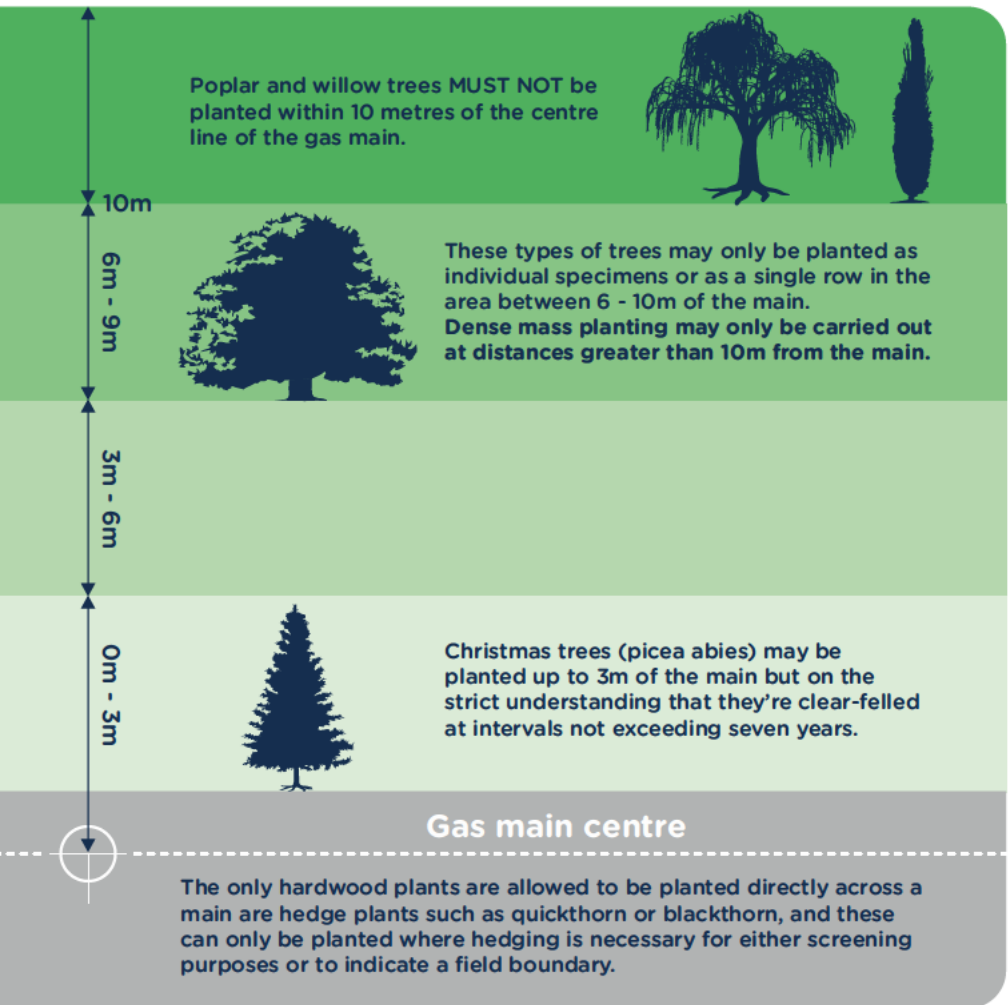
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

Gas main centre

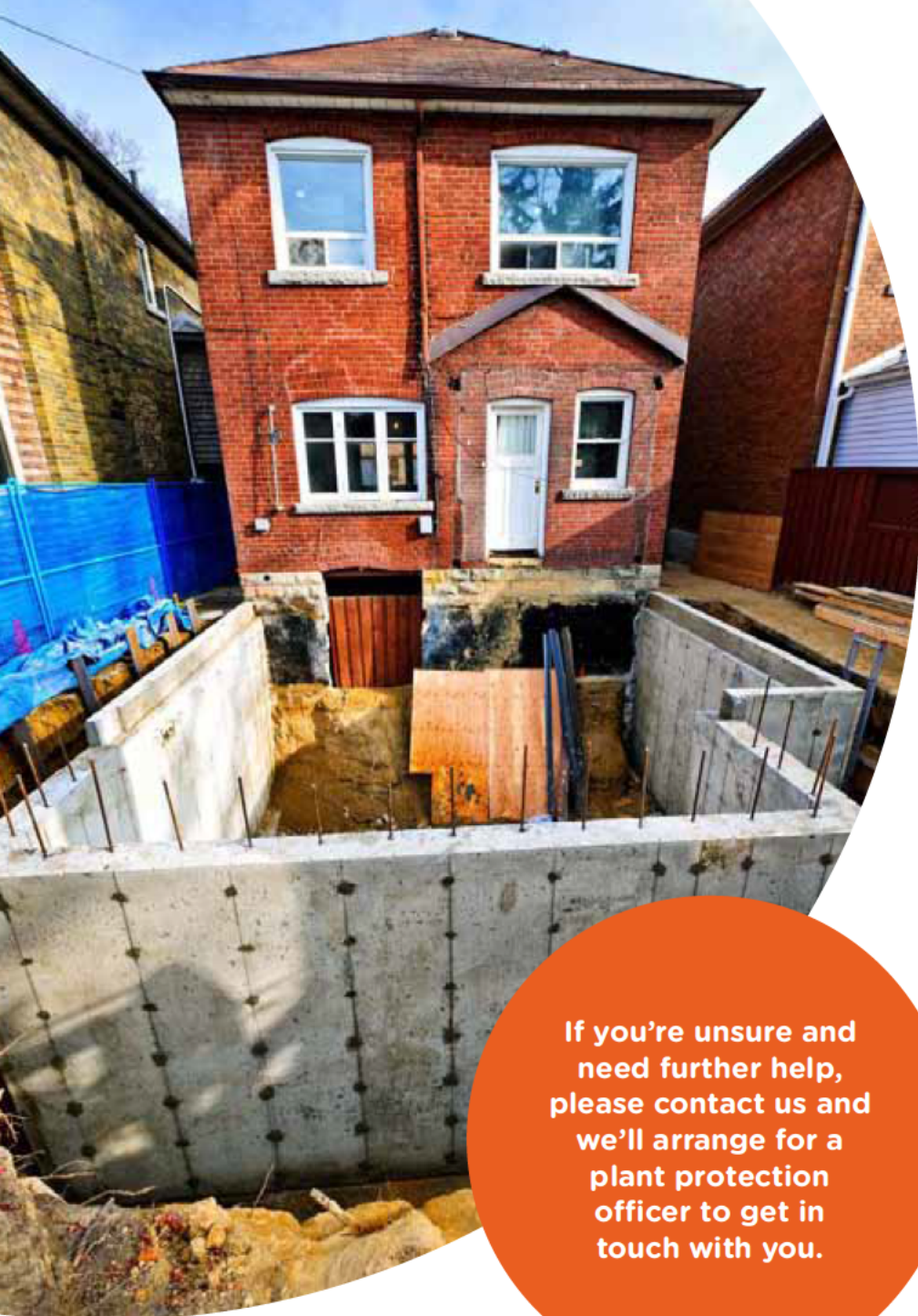
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, **MUST** be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they **MUST** be planted from gas mains or services. You **MUST** contact us for further information.



Note: For further guidance, please refer to NJUG 10.

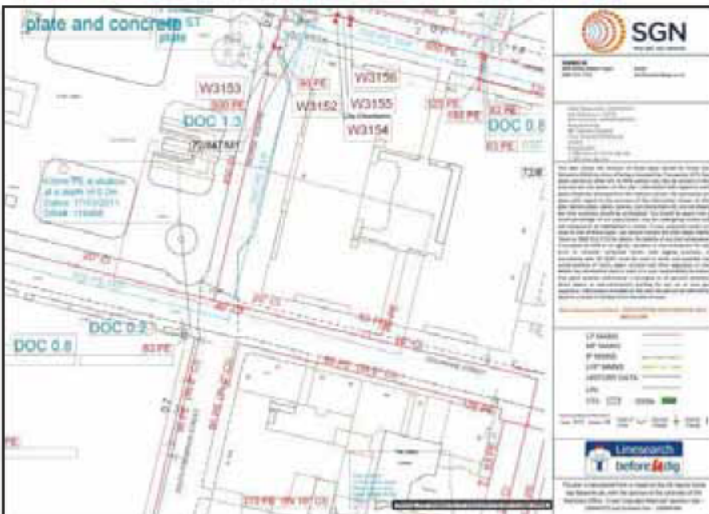


If you're unsure and need further help, please contact us and we'll arrange for a plant protection officer to get in touch with you.

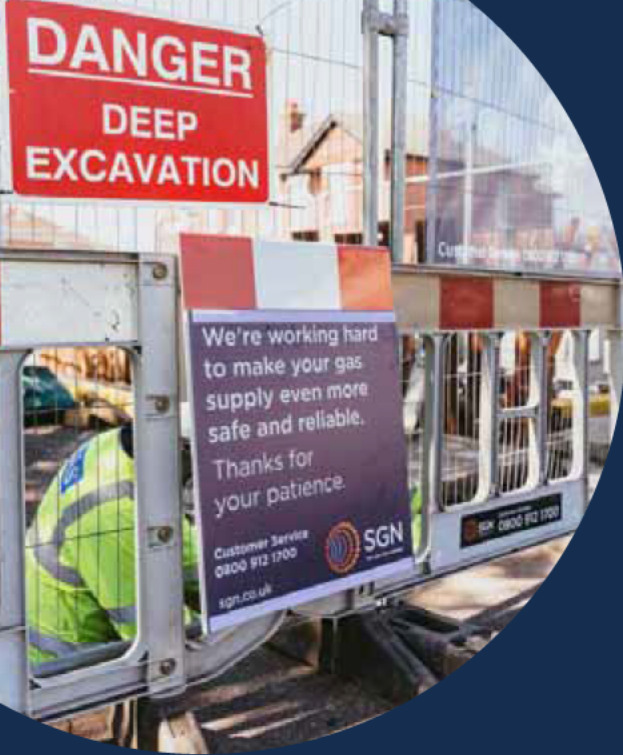
Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf, we may send you a site map of our gas mains and services but your own gas service won't be marked.

The simplest way to understand the location of your gas service is to know where it enters your house.



< Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing.



We provide a free plant location enquiry service and we're always happy to help.



Visit our **Dig safely** pages on sgn.co.uk



0800 912 1722 *

*All calls are recorded and may be monitored



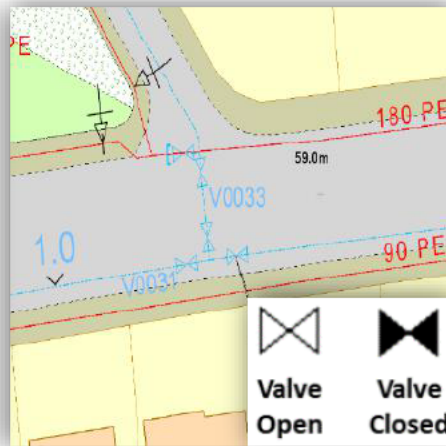
Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

Identifying gas valves

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



What should you do?

When planning to work in our network areas, please observe the following points:

1. You must contact us before starting any work activity within **3.0m** of a gas valve identified on our maps.
2. If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
3. To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

Contact details

If you require further information or need assistance please contact us:

Safety Admin Team: 0800 912 1722
plantlocation@sgn.co.uk

Valve enquiries will be forwarded to a local engineer who will provide further safety information.

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PORTS & HARBOURS • GEOTECHNICAL & ENVIRONMENTAL ENGINEERING • PLANNING &
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Glasgow	Watford
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FAIRHURST



**DEVELOPMENT BID FOR SITE AT
HEATHVALE, COVE
LANDSCAPE APPRAISAL**
on behalf of Mactaggart & Mickel



ABERDEEN CITY LOCAL DEVELOPMENT PLAN
2018

DElandscape
initiatives
urban design
landscape architecture
environmental planning

CONTENTS

- 1.0 Introduction**
- 2.0 Location plan**
- 3.0 Aerial view**
- 4.0 Landscape appraisal**
- 5.0 Development site plan**
- 6.0 Topography**
- 7.0 Landscape masterplan**

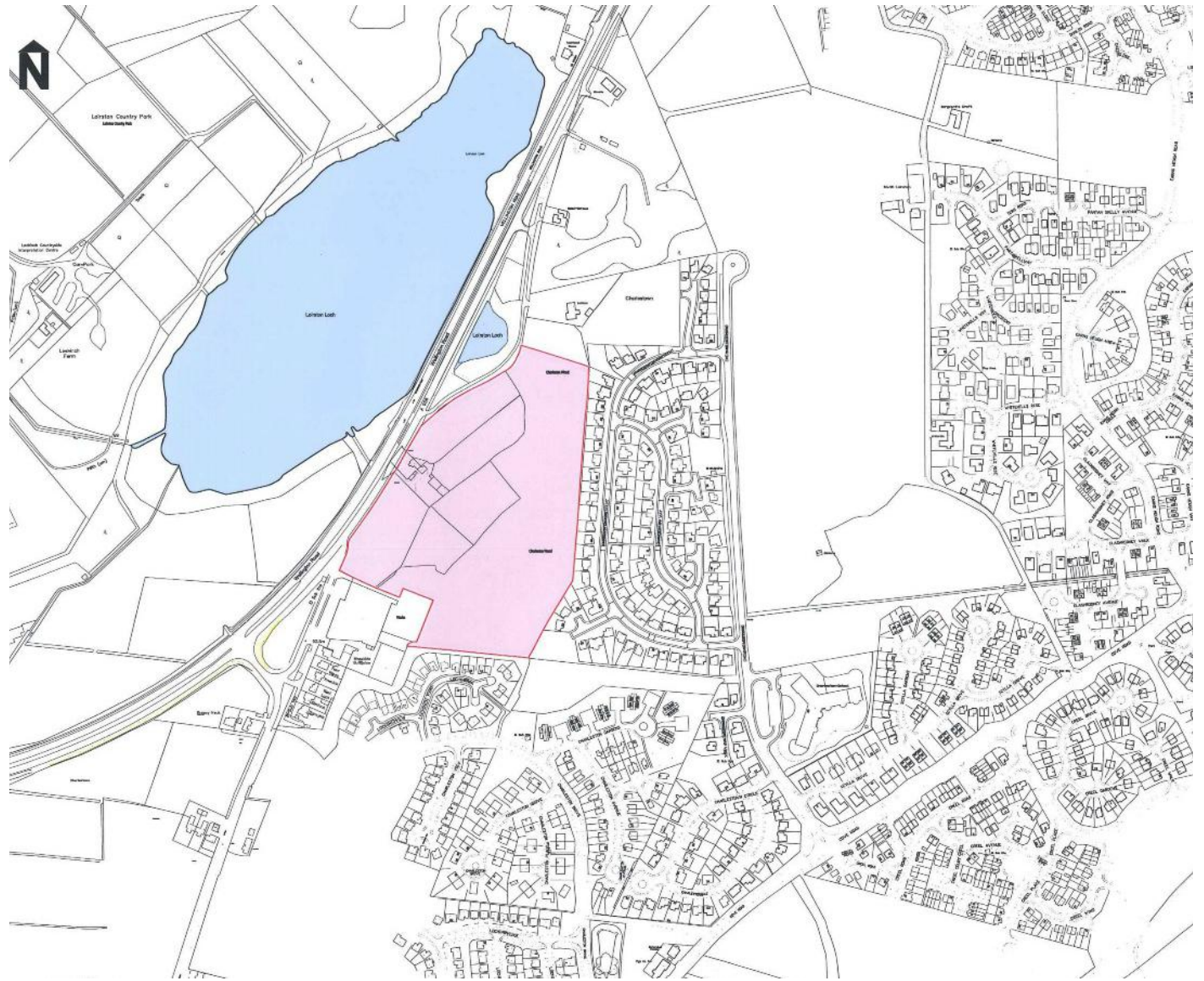
1.0 INTRODUCTION

1.1 The site is located on the southern edge of Aberdeen City in the suburb of Cove. At just over 1km inland from the coast, the site sits at approximately 87m above sea level.

In December 2017 Mactaggart & Mickel instructed DEP landscape initiatives to prepare a landscape appraisal of the site with a view to submitting a bid for inclusion in the next Local Development Plan.

1.2 In order to inform the landscape planning of the site, a ground level tree survey and a Phase 1 ecological survey were commissioned. These were carried out in January and February 2018.





2.0 location plan



KEY APPRAISAL POINTS

- site surrounded on 3 sides by residential development and commercial
- eastern half of the site comprises steep, Gorse-covered ground, the remains of Charlestown Wood
- the rest of the site is primarily rough grass with minimal tree cover except along boundaries
- site is secluded, with vehicle access from south commercial premises road or from small residential lane to the north
- site bounded by dilapidated stone walling
- Loirston Loch and Country Park situated opposite on western side of Wellington Road



3.0 aerial view of the site

4.0 Landscape Appraisal

4.1 Landscape Character

The Loirston/Cove area consists of a narrow strip of agricultural land which slopes gently to the tops of adjacent coastal cliffs. Extensive views eastwards can be gained, although these may be obscured in parts by the railway embankment. Views inland are generally restricted due to rising land and industrial development prevalent in that area.

4.2 Settlement

In the past, development of the wider area has centred on the industrial and commercial development of Altens, however, in recent years the scale of house building has accelerated particularly in the Charlestown area. Inevitably after the dust has settled from this expansion, small isolated sites like Heathvale emerge on the planning map. As if abandoned by the volume housebuilders, these sites, small in development terms at 6.2 hectares, require to be stitched back into the new built form that has been created.

To the east, the site has been closed off by development building hard up against the boundary, in what was Charlestown Wood. The A956 Aberdeen to A90 link road, Wellington Road, and a minor residential sealed track run along the western boundary. Beyond the trunk road is Loirston Loch, a Local Nature Conservation Site. To the south are business premises housing, while rough ground and an area of construction work defines the northern boundary.

Heathvale cottage and paddock is situated in the centre of the site with access off the A956.

4.3 Topography

The low lying site sits below the elevated carriageway of Wellington Road and lies for the most part at around 85m AOD then rises up to a high point along the eastern boundary at around 92m AOD. The eastern side of the site has been disturbed historically where old gravel pits have since been colonised by Gorse and mixed woodland.

4.4 Ecology

The site comprises a range of improved and semi-improved habitats including woodland, grassland, tree lines, hedgerow and extensive Gorse scrub.



Suitable bat foraging habitat was noted along woodland and scrub. Also there were frequent signs of Roe deer across the site. Further species surveys will be required at future dates as determined by progress in developing the site.

Dry stone dykes were notable boundary features.

The ecological survey report is appended to this document.

4.5 Tree survey

A tree survey was carried out by Angus Mackay Consultants in February 2018.

Within the site there were 72 no trees surveyed that exceeded 17cms girth at 1.5m height.

Species present and percentages are:-

<i>Fagus sylvatica</i>	Beech	12
<i>Betula pendula</i>	Silver Birch	4
<i>Sorbus aria</i>	Whitebeam	20
<i>Sorbus aucuparia</i>	Rowan	15
<i>Picea sitchensis</i>	Sitka Spruce	4
<i>Ilex aquifolium</i>	Holly	1
<i>Alnus glutinosa</i>	Common Alder	10
<i>Salix caprea</i>	Goat Willow	5

Of the 72 trees, 27 no were recommended for removal on the grounds of decay, condition and public safety.



5.0 development site plan



view SW from the edge of the adjoining housing site



view eastwards towards the adjoining housing site



6.0 topography



key landscape features

- site area 6.2 ha
- 30 open market flatted units
- 30 affordable flatted units
- 60 house plots
- public open space in excess of 40%



- incorporation of "natural" play areas to take advantage of the site
- links created to corepath and into adjoining residential areas
- Gorse understorey to be managed to protect bird and mammal life on the site
- enhanced biodiversity by introducing a mix of trees and understorey shrubs
- sustainable drainage
- reflect the dramatic topography of the site in the layout
- create new blocks of woodland, undergrowth and open areas to maximise the wildlife potential

7.0 landscape masterplan



DEP landscape initiatives

The Studio, 17 Bidders Gait, Regency Gardens, Lanark ML11 9FG tel 01555 660555

Email: smb@depli.co.uk

**HEATHVALE, COVE, ABERDEEN
TREE SURVEY REPORT**

For on behalf of

DEP LANDSCAPE INITIATIVES

26 FEBRUARY 2018

Angus Mackay
Landscape Consultants
28 Ballater Drive
Bearsden
Glasgow
G61 1BX

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1. Introduction.

The purpose of this Tree Survey is to report on the trees, and their condition and retention potential at Heathvale, Charleston Wood, Aberdeen

2. Existing Tree Resource

140 No trees were individually surveyed along with a woodland survey on remainder of

3. Tree Survey.

3.1 The objects of the survey are:-

- To undertake a detailed assessment with regard to the nature, extent and condition of the trees.
- To provide a comprehensive inventory for the surveyed trees, in line with the British Standard 5837: 2012 -Trees in relation to Design, Demolition and Construction – Recommendations.
- To provide recommendations for works required in the interests of safety and sound arboricultural management.

3.2 Limitations

- The findings and recommendations relating to the tree contained within this report are valid for a period of twelve months from the date of survey I.e. until 31 January 2019.
- As trees are living organisms and subject to change, it is strongly recommended that they are inspected on a regular basis for reasons of safety.
- The report relates only to the trees surveyed.
- The trees have been visually inspected from ground level, and whilst every effort has been made to detect defects, no absolute guarantee can be given as to the structural stability or otherwise of any individual tree. Extreme weather conditions can cause damage to even apparently healthy trees.
- A detailed assessment of the internal condition of the trees was not undertaken.
- This report has been prepared for the sole use of DEP Landscape Initiatives and their appointed agents. Any reference on reliance to this report or information therein by any other party is done so entirely at their own risk.

3.3 Tree Survey Methodology

The tree survey was carried out from the ground on 1,8 & 9 February 2018, by Angus Mackay, Landscape Consultants. Weather conditions at the time were Showery, Dull, Breezy, 2-6 C.

140 No trees were surveyed

The Visual Tree Assessment method (Stage 1) was used to determine the condition of the trees.

Information on the tree is provided in the Tree Survey Schedule. This records pertinent details as follows.

Tree Number	Tree numbers
Tree Species	Common Name and botanical name of species
Diameter	Diameter at breast height. Measured in centimetres at 1.5M
Height	Approximate Height of tree assessed in metres
Crown Spread	Approximate Spread of branches from centre of trunk to drip line, assessed to North, South, East or West
Crown clearance	Crown clearance above adjacent ground level assessed in metres N,S E & W
Age Class	Young (Y) Semi Mature (SM), Early Mature (EM) Mature (M) Over Mature (OM) Veteran (V)
Comments	General comments on tree health, structural condition and form, highlighting any defects or areas of concern.
Useful remaining life expectancy	Estimated remaining contribution in years ie -10, 10 +, 20 + & 40 +
Physiological condition	Good, Normal, Fair & poor.
Category grading	Tree quality assessment.
Recommendations	Recommended remedial action/arboricultural works

Trees are graded with a tree category (as per BS 5837: 2012 – Trees in Relation to Design, Demolition and Construction – Recommendations). There are four main categories as noted below A,B,C for trees good enough to be retained and U for trees to be removed. This is fully expanded overleaf. Within these categories, trees can be assessed for their specimen value, their landscape value or their conservation value.

Category Definitions	Criteria Sub Categories		
	1	2	3
Category A	Mainly arboricultural values	Mainly landscape Values	Mainly cultural values, including conservation
Trees of high quality with an estimated life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual : or those that are essential components of groups or semi formal arboricultural features (e.g) the dominant and/or principal trees within an avenue	Tree, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical commemorative or other values (e.g veteran trees or wood-pasture)
Category B			
Trees of moderate quality with an estimated life expectancy of at least 20 years	Trees that might be included in category A, but are down graded because of impaired condition (e.g presence of significant defects, including un sympathetic past management and storm damage) such that they are unlikely to be suitable for retention for beyond 40 years: or trees lacking the special quality necessary to merit category A designation	Trees usually present in numbers, usually growing as groups or woodland, such that they attract a higher collective rating than they might as individuals: or trees occurring as collectives, but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value
Category C			
Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees or very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value: and/or trees offering low or only temporary/transient screening benefits.	Trees with no material conservation or other cultural value
Category U	Criteria – sub categories		
Those in such a condition that they cannot realistically be retained as living trees in the context of the current land used for longer than 10 years	<ul style="list-style-type: none"> Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (eg where, for whatever reason, the loss of the companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate and irreversible overall decline. Trees infected with pathogens of significance to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality 		

4.0 Arboricultural Recommendations.

4.1 Category Grading as per schedule

The trees surveyed were in various categories.

4.2 Trees and Construction

In order to safeguard the tree during any works on the property, BS 5837: 2012 recommends the establishment of a tree protection zone from which all construction activity, including material storage, is excluded. All works must ensure tree roots are not damaged by compaction/mechanical damage and tree boles/branches are not damaged by construction traffic. BS 5837: 2012 recommends the erection of a scaffold fence at a distance of 12 times the diameter of the tree to a maximum distance of 15M. Some encroachment into the RPA can be tolerated to a degree, depending on tree and site conditions, but must only be sanctioned by an arboriculturist.

RPA fencing should be erected prior to work commencing to detail as shown on attached drawing prior to any work taking place as per BS 5837:2012

4.3 Tree Surgery and Precautions.

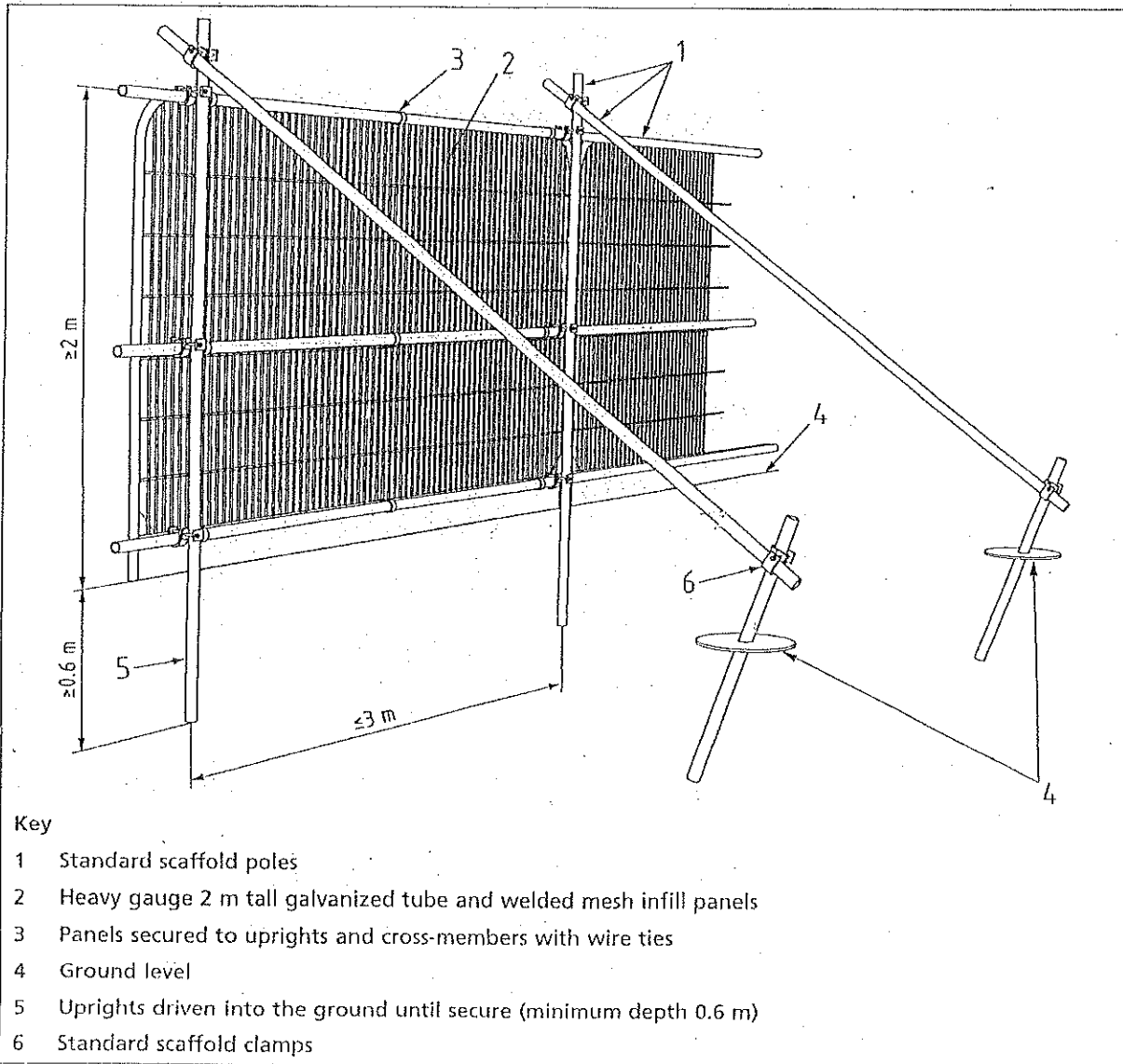
Tree surgery and felling work required should comply with BS 3998: 2010 'Tree Work – Recommendations'.

Trees may host numerous species of animals, birds, bats, insects and fungi, many of which are protected by British and European legislation. The destruction or disturbance of any of these species or their habitat is an offence. It is therefore paramount that checks are conducted prior to tree works to identify if there are protected species using the trees or nearby habitats which may be disturbed. Expert help will be required to identify and /or protect these species.

The trees may be covered by a Tree Preservation Order ,or may be in a Conservation Area, therefore, prior to removing or carrying out any work on the trees, permission should be sought from the Local Planning Authority. Prior to any Arboricultural works, permission from the landowner should be sought and contact should be made with Forestry Commission Scotland to check if a Felling Licence is required

4.4 Replacement Trees – Where trees are to be replaced, consideration should be given to a 1 for 1 basis. Native trees are suggested with a local seed provenance Forestry Commission zone 202. Planting should be carried out to BS 4545:2014 – Trees from Nursery to Independence in the Landscape - Recommendations

Figure 2 Default specification for protective barrier



P7

TREE SURVEY SCHEDULE

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GROUND LEVEL TREE SURVEY : Heathvale,Charleston Wood, Cove, Aberdeen DATE OF SURVEY: 22 > 24/02/2018 SURVEY No. 708/908 WEATHER: Calm, Clear, Dry 3-8C												
CARRIED OUT BY MACKAY CONSULTANTS BSS837:2012 - Trees in Relation to Design, Demolition & Construction CLIENT: DEP Landscape Initiatives												
D/W/S = Remove Dead Wood & Snags Physio Cond. = Physiological Condition N= Normal; F = Fair; P = Poor; U = Remove; HCC = Height of Crown Clearance; D/S = Double Stem; M/S = Multi Stem; AS = Aerial Survey Recommended; DDT = Decay Detection Test Recommended; WLP = Wild Life Potential 1 = High; 2 = Moderate; 3 = Poor; AGE CLASS Y = Young; SM = Semi Mature; EM = Early Mature; M = Mature; ERY = Estimated Remaining Years = -10, 10 +, 20 +, 40+; N/W/R = No Work Required at this time. Survey valid until 21 February 2019												
Tree Ref No	Species	Height approx M	Branch Spread Approx. M	Height of Crown Clearance M	Stem Diam at 1.5M AGL CM *	Age Class	Physio Cond.	Structural Condition	Preliminary Management Recommendations	ERY	Grading Category	RPA Radius of a nominal circle (M ²)
00929	Common Beech M/S	15	N: 5 S: 1.5 E: 6 W: 8	0	50/31 20/10	EM	Poor	Growing out of stone deck overhanging access rd. Decay at base	REMOVE	0	U	0
930	Sitka Spruce	19	N: 5 S: 4 E: 4 W: 4	6 W	32	SM	Fair	Close to stone dyke on the West	N/W/R	10 +	C 2	3.8
931	Sitka Spruce	19	N: 6 S: 6 E: 5 W: 6	5 E	48	EM	Fair	Fair	MONITOR Lift canopy to 5 M	10 +	C 2	5.8
932	Shore Pine	13	N: 0 S: 3 E: 5 W: 1	5 E	18	SM	Poor	Suppressed & leans to the South	REMOVE	0	U	0
933	Sitka Spruce M/S	17	N: 5 S: 5 E: 5 W: 6	0	32/12 10	SM	Fair	Fair	Remove smaller dead stem	20 +	C 2	6.5
934	Shore Pine D/S	10	N: 3 S: 3 E: 6 W: 1	0	20/10	SM	Poor	Suppressed & leans to the East	REMOVE	0	U	0
935	Rowan M/S	8	N: 3 S: 4 E: 4 W: 5	0	12/10 10/6	SM	Poor	Growing out of stone dyke & poor vigour	REMOVE	0	U	0
936	Shore Pine D/S	10	N: 3 S: 5 E: 2 W: 2	0	20/12	SM	Fair	Fair	Remove smaller stem	10 +	C 2	3.8
00937	Shore Pine D/S	11	N: 5 S: 5 E: 6 W: 4	0	27/10	SM	Fair	Bifurcates at 2 M	Remove smaller stem	10 +	C 2	4.4

GROUND LEVEL TREE SURVEY : Heathvale,Charleston Wood, Cove, Aberdeen DATE OF SURVEY: 22 > 24/02/2018 SURVEY No. 708/908 WEATHER: Calm, Clear, Dry 3-8 C												
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Tree Ref No	Species	Height approx M	Branch Spread Approx. M	Height of Crown Clearance M	Stem Diam at 1.5M AGL CM *	Age Class	Physio Cond.	Structural Condition	Preliminary Management Recommendations	ERY	Grading Category	RPA Radius of a nominal circle (M ²)
00938	Shore Pine	9	N: 5 S: 1 E: 2 W: 2	1.8 S	28	SM	Poor	Leaning badly to the North & root heave	REMOVE	0	U	0
938	Shore Pine M/S	10	N: 2 S: 4 E: 6 W: 1	0	28/14/8	SM	Poor	Severe bend at 2.5 M	REMOVE	0	U	0
940	Shore Pine D/S	10	N: 5 S: 6 E: 5 W: 4	0	20/15	SM	Poor	Leaning badly to the South East	REMOVE	0	U	0
941	Shore Pine D/S	11	N: 7 S: 5 E: 6 W: 6	0	26/13	SM	Poor	Leaning badly to the South East	REMOVE	0	U	0
942	Shore Pine	12	N: 5 S: 5 E: 5 W: 4	3 W	23	SM	Fair	Fair	N/W/R	10 +	C 2	2.8
943	Shore Pine	0	N: 0 S: 0 E: 0 W: 0	0	25	SM	Poor	On the deck	REMOVE	0	U	0
944	Shore Pine	10	N: 3 S: 3 E: 3 W: 3	6 N	16	Y	Fair	Fair	Lift canopy to 8 M to clear No 945	10 +	C 2	1.9
945	Common Holly	8	N: 6 S: 6 E: 6 W: 6	0	34	SM	Normal	Fair	N/W/R	20 +	B 2	4.1
00946	Common Alder D/S	6	N: 2 S: 5 E: 2 W: 2	0	30/6	SM	Poor	Dying. Poor	REMOVE	0	U	0

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00947	Shore Pine	2	N: 0 S: 0 E: 0 W: 0	0	15	0	0	Dead. On the deck	REMOVE	0	U	0
948	Common Alder M/S	8	N: 6 S: 6 E: 5 W: 4	0	44/23 20	EM	Poor	Dying	REMOVE	0	U	0
949	Common Alder M/S	8	N: 6 S: 6 E: 5 W: 4	0	26/12 10/10	SM	Poor	Dying	REMOVE	0	U	0
950	Common Alder	7	N: 2 S: 1 E: 1 W: 1	1 E	13	Y	Poor	Affecting retaining wall	REMOVE	0	U	0
951	Common Beech M/S	10	N: 7 S: 7 E: 9 W: 7	0	53/21 20	SM	Fair	Growing from old stump & through boundary fence. Slight basal decay	Remove barbed wire from stem & smaller stems to the East	10+	C 2	8.9
952	Common Beech M/S	11	N: 9 S: 10 E: 13 W: 8	0	52/30 21/10	EM	Fair	Growing out of retaining wall	D/W/S	10+	C 2	13.6
953	Common Beech M/S	15	N: 9 S: 8 E: 7 W: 7	0	50/38 12/12	EM	Fair	Barbed wire around trunk. Slight stem damage	MONITOR D/W/S. Remove barbed wire	10+	C 2	13.4
954	Common Beech M/S	10	N: 8 S: 6 E: 6 W: 9	0	20/18 14/12	SM	Poor	Decay at base. Growing out of retaining wall	REMOVE	0	U	0
00955	Common Beech M/S	10	N: 5 S: 5 E: 6 W: 8	0	20/16 12/10	SM	Poor	Decay at base & growing out of stone dyke	REMOVE	0	U	0

<p>GROUND LEVEL TREE SURVEY : Heathvale,Charleston Wood, Cove, Aberdeen DATE OF SURVEY: 22 > 24/02/2018 SURVEY No. 708/908 WEATHER: Calm, Clear, Dry 3-8 C</p> <p>CARRIED OUT BY MACKAY CONSULTANTS BS5837:2012 - Trees in Relation to Design, Demolition & Construction CLIENT: DEP Landscape Initiatives</p> <p>D/W/S = Remove Dead Wood & Snags Physio Cond. = Physiological Condition N=Normal: F = Fair: P = Poor: U = Remove: HCC = Height of Crown Clearance: D/S = Double Stem: M/S = Multi Stem: AS = Aerial Survey Recommended: DDT = Decay Detection Test Recommended: WLP = Wild Life Potential 1 = High: 2 = Moderate: 3 = Poor: AGE CLASS Y = Young: SM = Semi Mature: EM = Early Mature: M = Mature: ERY = Estimated Remaining Years = -10, 10 +, 20 +, 40+: N/W/R = No Work Required at this time. Survey valid until 21 February 2019</p>												
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00956	Common Beech M/S	8	N: 5 S: 3 E: 4 W: 8	0	16/14 14/8	Y	Poor	Elevated root plate. Affecting boundary wall	REMOVE	0	U	0
957	Common Beech M/S	9	N: 5 S: 6 E: 5 W: 6	0	21/15 14/12	Y	Poor	Elevated root plate. Decay at base	REMOVE	0	U	0
958	Common Beech M/S	10	N: 6 S: 6 E: 7 W: 7	0	30/22 14/12	SM	Poor	Elevated root plate. Decay a near base	REMOVE	0	U	0
959	Common Silver Birch	13	N: 7 S: 7 E: 6 W: 6	1 W	30	SM	Fair	Slight root heave bends at 1 M	N/W/R	10+	C 2	3.6
960	Goat Willow M/S	5	N: 8 S: 7 E: 6 W: 4	0	25/22 12/12	SM	Poor	Decay in crown & partially on the deck.	REMOVE	0	U	0
961	Goat Willow D/S	5	N: 3 S: 3 E: 6 W: 6	0	23/18	SM	Poor	On the deck	REMOVE	0	U	0
962	Common Alder D/S	7	N: 3 S: 2 E: 3 W: 3	0	15/8	Y	Fair	Fair	N/W/R	20+	C 2	2.8
963	Goat Willow M/S	6	N: 6 S: 6 E: 6 W: 6	0	17/16 12/12	Y	Poor	Severe decay in main stem	REMOVE	0	U	0
00964	Common Alder	7	N: 2 S: 3 E: 2 W: 2	0	20	Y	Fair	Bends near base	N/W/R	10+	C 2	2.4
									MONITOR			

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Tree Ref No	Species	Height approx M	Branch Spread Approx. M	Height of Crown Clearance M,N,S,E,W	Stem Diam at 1.5M AGL CM *	Age Class	Physio Cond.	Structural Condition	Preliminary Management Recommendations	ERY	Grading Category	RPA Radius of a nominal circle (M ²)
00965	Rowan M/S	5	N: 2 S: 2 E: 4 W: 2	0	18/14 10/10	SM	Poor	Severe decay in crown	REMOVE	0	U	0
966	Rowan D/S	7	N: 4 S: 4 E: 3 W: 3	0	30/23	SM	Fair	Fair	N/W/R	20+	C 1	6.4
967	Rowan D/S	5	N: 1 S: 2 E: 1 W: 1	0	15/10	Y	Fair	Fair	N/W/R	20+	C 1	3.0
968	Rowan D/S	4	N: 2 S: 2 E: 2 W: 2	0	12/10	Y	Fair	Fair	N/W/R	20+	C 1	2.5
969	Rowan M/S	4	N: 1 S: 1 E: 1 W: 2	0	10/6/4	Y	Fair	1 M from stone dyke	N/W/R	20+	C 1	2.4
970	Rowan D/S	4	N: 1 S: 1 E: 2 W: 2	0	14/8	Y	Fair	1 M from stone dyke	N/W/R	20+	C 1	2.5
971	Whitebeam M/S	4	N: 2 S: 2 E: 2 W: 2	0	16/14 10	Y	Fair	Fair	N/W/R	20+	C 1	4.8
972	Whitebeam M/S	5	N: 3 S: 3 E: 1 W: 2	0	22/21 16	SM	Fair	Fair	N/W/R	20+	C 1	7.1
00973	Whitebeam M/S	5	N: 2 S: 2 E: 1 W: 1	0	13/12 10	SM	Poor	Poor vigour. Stems splitting	REMOVE	0	U	0

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CARRIED OUT BY MACKAY CONSULTANTS BS5837:2012 - Trees in Relation to Design, Demolition & Construction CLIENT: DEP Landscape Initiatives												
D/W/S = Remove Dead Wood & Snags Physio Cond. = Physiological Condition N= Normal: F = Fair: P = Poor: U = Remove: HCC = Height of Crown Clearance: D/S = Double Stem: M/S = Multi Stem: AS = Aerial Survey Recommended: DDT = Decay Detection Test Recommended: WLP = Wild Life Potential 1= High: 2 = Moderate: 3 = Poor: AGE CLASS Y= Young: SM = Semi Mature: EM = Early Mature: M = Mature: ERY = Estimated Remaining Years = -10, 10 +, 20 +, 40+- N/W/R = No Work Required at this time. Survey valid until 21 February 2019												
Tree Ref No	Species	Height approx M	Branch Spread Approx. M	Height of Crown Clearance M N,S,E,W	Stem Diam at 1.5M AGL CM *	Age Class	Physio Cond.	Structural Condition	Preliminary Management Recommendations	ERY	Grading Category	RPA Radius of a nominal circle (M ²)
00974	Whitebeam M/S	4	N: 3 S: 2 E: 3 W: 3	0	17/10 8/6	SM	Fair	Slight stem damage	N/W/R	20+	C 1	4.9
975	Whitebeam D/S	4	N: 1 S: 1 E: 1 W: 1	0	13/6	Y	Fair	Inclusion at 0.30 M	Remove smaller stems	-10	C 1	2.3
976	Whitebeam	4	N: 7 S: 5 E: 6 W: 5	1.5 S	53	EM	Fair	Slight decay at base. Bifurcates at 1.0 M	N/W/R	-10	C 1	6.4
977	Whitebeam M/S	5	N: 4 S: 4 E: 5 W: 5	0	16/14 10/10	SM	Fair	Surrounded by Gorse	Remove decayed stem to the South	10+	C 1	6.0
978	Common Silver Birch M/S	8	N: 5 S: 5 E: 5 W: 5	0	18/17 15/15	SM	Fair	Witches Broom in crown. Water Logging under canopy to the East	N/W/R	-10	C 1	7.8
979	Goat Willow M/S	7	N: 5 S: 5 E: 5 W: 4	0	22/8 8/8	SM	Fair	Water logging under canopy	N/W/R MONITOR	-10	C 1	5.5
980	Common Silver Birch M/S	8	N: 4 S: 4 E: 4 W: 3	0	13/12 10/8	Y	Fair	Slight decay at base. Water logging under canopy	N/W/R MONITOR	-10	C 1	5.2
981	Common Silver Birch M/S	8	N: 5 S: 4 E: 4 W: 4	0	13/12 10/8	Y	Fair	Slight water logging under canopy & Witches Broom in crown	N/W/R	-10	C 1	5.2
00982	Common Silver Birch M/S	9	N: 4 S: 1 E: 4 W: 2	0	13/12 8/8	Y	Fair	2 M from wall to the South	N/W/R	10+	C 1	4.9

GROUND LEVEL TREE SURVEY : Heathvale, Charleston Wood, Cove, Aberdeen DATE OF SURVEY: 22 > 24/02/2018 SURVEY No. 708/908 WEATHER: Calm, Clear, Dry 3 - 8 C												
CARRIED OUT BY MACKAY CONSULTANTS BS5837:2012 - Trees in Relation to Design, Demolition & Construction CLIENT: DEP Landscape Initiatives												
D/W/S = Remove Dead Wood & Snags Physio Cond. = Physiological Condition N= Normal: F = Fair: P = Poor: U = Remove: HCC = Height of Crown Clearance: D/S = Double Stem: M/S = Multi Stem: AS = Aerial Survey Recommended: DDT = Decay Detection Test Recommended: WLP = Wild Life Potential 1= High: 2 = Moderate: 3 = Poor: AGE CLASS Y= Young: SM = Semi Mature: EM = Early Mature: M = Mature: ERY = Estimated Remaining Years = -10, 10 +, 20 +, 40+; N/W/R = No Work Required at this time. Survey valid until 21 February 2019												
Tree Ref No	Species	Height approx M	Branch Spread Approx. M	Height of Crown Clearance M N,S,E,W	Stem Diam at 1.5M AGL CM *	Age Class	Physio Cond.	Structural Condition	Preliminary Management Recommendations	ERY	Grading Category	RPA Radius of a nominal circle (M ²)
00983	Common Silver Birch	8	N: 6 S: 4 E: 2 W: 2	3 E	11	Y	Fair	Decay in stem	REMOVE	0	U	0
984	Common Silver Birch M/S	9	N: 15 S: 6 E: 4 W: 4	0	16/12 10/9	Y	Fair	Fair	N/W/R	20+	C 1	5.6
985	Whitebeam D/S	6	N: 2 S: 2 E: 2 W: 2	0	13/9	Y	Fair	Fair	N/W/R	20+	C 1	2.6
986	Common Silver Birch M/S	7	N: 3 S: 2 E: 2 W: 3	0	20/17 16/10	Y	Fair	1 M from stone dyke	N/W/R	20+	C 1	7.6
987	Whitebeam M/S	4	N: 3 S: 3 E: 3 W: 3	0	17/10 10	Y	Fair	Seedling	N/W/R	10+	C 1	4.4
988	Whitebeam M/S	5	N: 3 S: 3 E: 2 W: 3	0	18/8 6/7	Y	Fair	Seedling	N/W/R	10+	C 1	4.9
989	Whitebeam M/S	5	N: 3 S: 3 E: 3 W: 3	0	20/8 6/6	Y	Fair	Seedling	N/W/R	10+	C 1	4.8
990	Whitebeam D/S	4	N: 2 S: 2 E: 2 W: 2	0	10/6	Y	Fair	Seedling	Remove rope from canopy	10+	C 1	1.9
00991	Whitebeam M/S	4	N: 2 S: 2 E: 2 W: 2	0	12/8/6	Y	Fair	Seedling	N/W/R	10+	C 1	3.1

GROUND LEVEL TREE SURVEY : Heathvale,Charleston Wood, Cove, Aberdeen DATE OF SURVEY: 22 > 24/02/2018 SURVEY No. 708/908 WEATHER: Calm, Clear, Dry 3 - 8 C												
CARRIED OUT BY MACKAY CONSULTANTS BS5837:2012 - Trees in Relation to Design, Demolition & Construction CLIENT: DEP Landscape Initiatives												
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N/W/R = No Work Required at this time. Survey valid until 21 February 2019												
Tree Ref No	Species	Height approx M	Branch Spread Approx. M	Height of Crown Clearance M N,S,E,W	Stem Diam at 1.5M AGL CM *	Age Class	Physio Cond.	Structural Condition	Preliminary Management Recommendations	ERY	Grading Category	RPA Radius of a nominal circle (M ²)
00992	Whitebeam M/S	6	N: 6 S: 6 E: 6 W: 6	0	26/21 19/12	Y	Fair	20 Cms from stone dyke junction. Partially on the deck	REMOVE	0	U	0
993	Common Alder M/S	4	N: 6 S: 5 E: 6 W: 4	0	28/22 20/10	SM	Fair	At wall junction. Poor vigour	N/W/R	-10	C 1	8.4
994	Goat Willow M/S	4	N: 5 S: 6 E: 6 W: 4	0	32/22 18	SM	Poor	Decay in stems	REMOVE	0	U	0
995	Common Silver Birch M/S	9	N: 5 S: 7 E: 4 W: 4	0	35/13 12	SM	Fair	Fair	N/W/R	10+	C 1	7.2
996	Common Silver Birch M/S	9	N: 4 S: 5 E: 4 W: 3	0	22/15 10	Y	Fair	Slight basal decay	MONITOR	-10	C 1	5.6
997	Rowan M/S	8	N: 6 S: 6 E: 6 W: 5	0	14/13 12	Y	Fair	Seedling. Slight stem damage near base	MONITOR	-10	C 1	4.9
998	Rowan M/S	7	N: 6 S: 8 E: 4 W: 6	0	28/15 12/10	SM	Fair	Fair	N/W/R	10+	C 1	7.8
999	Rowan M/S	8	N: 5 S: 4 E: 5 W: 4	0	16/15 14/10	Y	Fair	Fair	N/W/R	10+	C 1	6.6
001000	Rowan M/S	7	N: 5 S: 4 E: 5 W: 4	0	13/13 12	Y	Fair	Fair	N/W/R	10+	C 1	4.6

BS Categories	
A	Trees where retention is most desirable (high category)
B	Trees where retention is desirable (moderate category)
C	Trees which could be retained (low category)
U	Trees for removal (fell category)

**HEATHVALE, CHARLSTON WOOD, COVE, ABERDEEN
FEBRUARY 2018**

LIST OF INDIVIDUAL TREES SURVEYED ON SITE REF 508/908

TREE SPECIES	NOS	Wild Life Potential
COMMON BEECH	9	2
SITKA SPRUCE	3	3
SHORE PINE	12	2
ROWAN	11	1
COMMON HOLLY	1	1
COMMON ALDER	7	2
COMMON SILVER BIRCH	11	2
GOAT WILLOW	4	3
WHITEBEAM	14	1
TOTAL	72	

WILD LIFE POTENTIAL

- 1 = HIGH
- 2 = MODERATE
- 3 = POOR

Loirston Loch

Loirston Loch

WELLINGTON ROAD
A 956

Charlestown Wood

Heathvale

Charlestown Wood

Charlestown Wood

Works

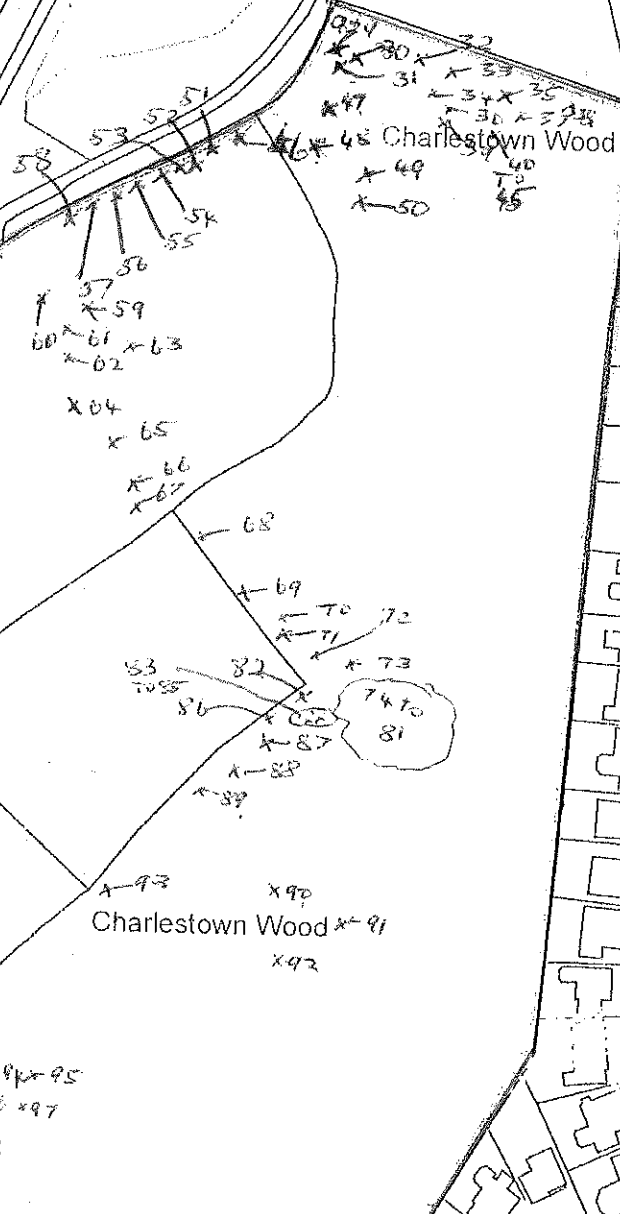
Charlestown

Woodside

Winds
parkie

CHARLESTON CRESCENT

X Approx Positions
OF TREES.





LANDSCAPE CONSULTANTS

ANGUS MACKAY

DEP Landscape Initiatives
17 Bidders Gait
Lanark
ML11 9FG

26 February 2017.

Our Ref 708/908

FAO MR STEVEN BRIDGE

PRINCIPAL LANDSCAPE ARCHITECT

Dear Sir

**PROPOSED DEVELOPMENT AT HEATHVALE, CHARLESTON WOOD, COVE,
ABERDEEN
VISUAL TREE ASSESSMENT/GROUND LEVEL TREE SURVEY BS 5837:2012 --
TREES IN RELATION TO DESIGN, DEMOLITION & CONSTRUCTION**

We have now carried out a Ground Level Tree Survey at the above site, and the report on our findings is now attached.

The findings and recommendations in this report are valid for a period of 12 Months (i.e. 21/02 2019). Trees are living organisms, and as such are subject to change – it is recommended that trees be inspected on an annual basis for reasons of safety.


The findings relate to the site, as it exists at present, and to the current levels and pattern of use. The degree of risk and hazard may alter should these aspects change.

Whilst every effort has been made to detect defects of trees within the survey area, no guarantee can be given as to the absolute safety or otherwise of any individual tree. Extreme climatic conditions can cause damage to apparently healthy trees. It is strongly recommended that the trees are inspected at regular intervals for reasons of safety.

This report has been prepared for the sole use of DEP Landscape Initiatives and their appointed agents. Any reference or reliance to this report or information therein by any other party is done so entirely at their own risk. No work should commence before permission from the Local Authority is granted

I trust this is satisfactory, but if you require any further information please do not hesitate to contact me

Yours faithfully


Angus Mackay
Landscape Consultants

PROJECT MANAGEMENT HORTICULTURE & ARBORICULTURE ADVISORY SERVICE
ANGUS MACKAY, D.H.E., I.D.T., M.I.O.G., Cert. Arbor. 28 Ballater Drive, Bearsden, Glasgow G61 1BX
Tel/Fax: 0141-942 7530 Mobile: 07860 836719
E-Mail: angus@mackayconsultants.com Website: www.mackayconsultants.com

V.A.T. No. 481 7451 32



CSP Acoustics

NOISE IMPACT ASSESSMENT

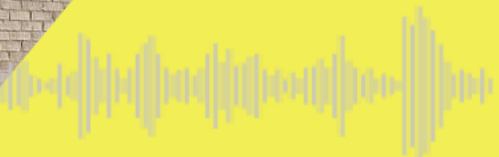
Residential development, Heathvale
Cove, Aberdeen

Prepared for:

Mactaggart and Mickel

Ref: 1279 001 PR DRAFT V3

Date: 24th May 2018



EMAIL INFO@CSPACOUSTICS.CO.UK
TEL 01382 731813 (Dundee)
TEL 0141 4283906 (Glasgow)
WEB CSPACOUSTICS.CO.UK



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9001 : 2015
REGISTERED

QMS[®] OHSAS 18001
REGISTERED

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14001 : 2015
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Document Revision History

Version	Reason	Date/Edits Made By:
1279 001 PR	1 st Issue	2018/05/08 PR
1279 001 PR V3	Text Edits	2018/05/24 LH

1.00 Introduction

- 1.01 This Report has been prepared on behalf of Mactaggart and Mickel to support a local plan bid to develop residential accommodation on a site at Heathvale, Cove, Aberdeen. The site is located to the West of Wellington Road (A956). A noise impact assessment is required as part of the plan bid process and CSP Acoustics has been engaged to carry out this work; details and results of the assessment completed are summarised in this report.
- 1.02 The assessment considers the impact of traffic from the local road network. The predictions of road traffic noise within this report are based on the results of a noise survey completed at the Site.
- 1.03 The impact of road noise in this report has been carried out using assessment methods and criteria set out in WHO guidelines and PAN1/2011 which sets internal levels for residential accommodation.
- 1.04 Predictions of noise on the proposed development have been made using proprietary noise prediction software CadnaA[®] (computer Aided Noise Abatement) developed by Datakustik.



1.05 All CSP Acoustics Consultants/Surveyors hold membership of the Institute of Acoustics.

CSP Acoustics:

- Fort Street House, 63 Fort Street, Broughty Ferry, Dundee DD5 2AB
- 29 Eagle Street, Craighall Business Park, Glasgow G4 9XA

2.00 Summary

- 2.01 CSP Acoustics has completed a noise impact assessment for a proposed residential development to be constructed on a site in Charleston Loirston Cove, Aberdeen.
- 2.02 The dominant source of noise in the area likely to affect the development is road traffic on Wellington Road (A956).
- 2.03 Assessment of the impact of road traffic noise on the proposed development has been carried out using the trigger noise levels set out in the table below. The triggers levels are based on WHO recommended internal noise limits for accommodation plus 15 dB. The latter is the value of attenuation that should be considered as the noise ingress that typically occurs through a partially open window. Hence the trigger levels assume windows are open for ventilation. The trigger levels used for assessment are set out in the table below.

Period	External Noise Limit
Daytime, 07.00 to 23.00	50 dB $L_{Aeq,16hr}$
Night time 23.00 to 07.00	45 dB $L_{Aeq,8hr}$

- 2.04 Predictions of noise within this report were made using proprietary noise prediction software CadnaA[®] (computer Aided Noise Abatement) developed by Datakustik.
- 2.05 The assessment indicates that road traffic noise for 61 residential buildings is likely to exceed specified limits for all residential buildings during daytime periods and 47 residential buildings during night time periods where windows are open for ventilation. Consequently these dwellings would need to rely on closed windows and an alternative means of ventilation in order to control road traffic noise sources to BS8233: 2014 internal noise limits. It should be understood that “closed” windows to dwellings does not mean fixed, i.e. windows could be opened at occupant’s discretion. Appropriate performances for building façade elements have been specified in this report.
- 2.06 It is considered that where windows and ventilators to the building meet with the sound insulation performances set out in this report then internal noise levels are likely to be meet BS8233:2014 limits.

3.00 Impact Assessment Criteria

- 3.01 PAN 1/2011:** The Planning Advice Note recommends the use of Quantitative and Qualitative assessments of noise together with assessments of the level of its significance to help planning authorities determine applications for a development types including commercial and workshop development. The PAN and its accompanying Technical Advice Note do not however offer specific guidance with respect to the standards to be applied in assessments of noise impact.
- 3.02** In the Technical Advice Note that accompanies the PAN in Chapter 3, para 3.8 states that: “The choice of appropriate criteria noise levels and relevant time periods are the responsibility of the local authority. Although this may lead to inconsistencies between different Local Authorities and, indeed, across areas within a given Local Authority, it does provide flexibility, allowing particular circumstances to be taken into account and the use of the latest guideline values to be included where appropriate.”
- 3.03** The PAN also notes, in Appendix 1, a range of Technical Standards and Codes of Practice that may be relevant to assessments including BS4142:2014 which can be used for assessing the impact of industrial/commercial developments, BS 8233:2014 which provides general guidance on acceptable levels within buildings and WHO Guidelines for Community Noise, 1999.
- 3.04 BS8233:2014:** Road traffic noise will be assessed in accordance with the method set out in CRTN 88 against noise criteria set out in Table 4, page 24 of BS8233:2014 and reproduced below.

BS8233:2014 – “Table 4: Indoor ambient noise levels for dwellings”			
Activity	Location	07:00 to 23:00 (Daytime)	23:00 to 07:00 (Night Time)
Resting	Living Room	35dB, $L_{Aeq,16hrs}$	-
Dining	Dining room/ area	40dB, $L_{Aeq,16hrs}$	-
Sleeping (daytime resting)	Bedroom	35dB, $L_{Aeq,16hrs}$	30dB, $L_{Aeq,8hrs}$

4.00 Survey

4.01 The dominant existing noise source at site is road traffic on the A956 to the West. The impact of noise from this source has been assessed for the proposed residential development site, see Figure 1 below.



Figure 1: Proposed Residential Development

4.02 A noise survey was carried out at the site on the 9th of April 2018. Measurements of road traffic noise were completed between 10.00 and 13.00 hours at survey location to the west of the proposed development site, see Figure 2. This location was approximately 4 metres distance from and A956. Measurements were completed in accordance with the shortened survey procedures described in CRTN'88 using fifteen minute minimum measurement samples taken over three consecutive hours.



Figure 2: Road noise survey locations

4.03 For all measurements locations the sound level meter was positioned 1.2 metres above ground level with no vertical reflecting surfaces within 1 metre of the chosen measurement location. Equipment was operated in accordance with British Standard and ISO procedures. The sound level meter was calibrated prior and post to site measurements using the appropriate calibrator to a reference tone of 114 dB at 1 kHz. Pre and post calibrations indicated a shift of no more than 0.1 dB. Details of sound level meter equipment used is set out below:

- Norsonic Nor140 Serial Number 1404033
- Norsonic Microphone Type 1225 Serial Number 118448
- Norsonic Calibrator Type 1251 Serial Number 34216

4.04 Weather conditions at the time of surveys were noted as follows: wind speed was below 5.0m/sec; air temperature was 10 degrees Celsius. No precipitation was record during surveys.

4.05 A summary of measured road traffic noise levels is shown in Table 1 below.

Table 1: CRTN, A956 Survey Results			
Measurement Period (5 min sample)	L _{Aeq} (dB)	L _{A10,3 hr} (dB)	L _{A90,3 hr} (dB)
10:00 to 10:15	76.0	80.8	56.7
10:15 to 10:30	75.8	80.5	56.8
10:30 to 10:45	75.9	80.5	57.2
10:45 to 11:00	75.6	80.4	54.4
11:00 to 11:15	76.4	81.0	57
11:15 to 11:30	76.0	80.5	56.9
11:30 to 11:45	76.3	81.1	50.9
11:45 to 12:00	76.4	81.1	46.7
12:00 to 12:15	76.6	81.2	51
12:15 to 12:30	76.2	80.6	53.1
12:30 to 12:45	75.5	80.2	52.1
12:45 to 13:00	75.4	80.3	50.9
Mean/ Average	76.0	80.7	53.6

5.00 Road Traffic Daytime/Night Time Noise Levels

5.01 The assessment of road traffic noise has been completed using the methods detailed in Calculation of Road Traffic Noise, 1988 (CRTN'88), using the proprietary noise prediction software CadnaA[®] (computer Aided Noise Abatement) developed by Datakustik. The modelling software calculates noise levels based on the inputted noise emission values, source and receiver locations, and primarily distance, barrier, ground attenuation and 2.5dB façade reflection.

5.02 Results produced by CadnaA[®] for traffic noise levels are in terms of the highest noise level occurring for 10% of an 18 hour period between 06.00 hours and midnight, these are referenced as $L_{A10,18hr}$ in dB. Noise levels required for assessing the impact on residential dwellings are in terms of average daytime 16 hour noise levels from 07.00 to 23.00 and average night time 8 hour noise levels from 23.00 to 07.00, referenced as $L_{Aeq,16hr}$ and $L_{Aeq,8hr}$. The average day time and night time levels, $L_{Aeq,16hr}$ and $L_{Aeq,8hr}$, can be assessed from the $L_{A10,18hr}$ as described below.

5.03 In accordance with CRTN'88 the daytime 18 hour noise level due to road traffic at the survey location is given by:

$$L_{A10,18hr} = \text{Mean } L_{A10,3hr} - 1 \text{ dB}$$

5.04 Published guidance indicates that for road traffic noise measurements the normal differential between L_{A10} and L_{Aeq} is 3 dB; for 95% of cases this relationship gives results within ± 2 dB of "true" values. Thus the 18 hour average noise level, $L_{Aeq,18hr}$, can be estimated as 3dB lower:

$$L_{A10,18hr} - 3 \text{ dB} = L_{Aeq,18hr}$$

5.05 Average daytime 16 hour values, $L_{Aeq,16hr}$ values are normally taken to be 1 dB higher than the $L_{Aeq,18hr}$ value (c.f. PAN 56, Annex 2), consequently:

$$\text{Daytime, } L_{Aeq,16hr} = L_{Aeq,18hr} + 1 \text{ dB}$$

5.06 Procedures set out in the 2002 TRL publication Converting the UK traffic noise index $L_{A10,18h}$ to EU noise indices for noise mapping can be used to establish the night time average noise level, $L_{Aeq,8hr}$, using:

$$\text{Night Time, } L_{Aeq,8hr} = 0.90 \times L_{A10,18hr} - 3.77 \text{ dB}$$

5.07 These procedures have been used to assess 16 hour daytime and 8 hour night time average noise level levels occurring at measurement location 7. The resulting levels are set out in Table 2.

Table 2: Road Traffic Daytime/Night Time Noise Levels		
Measurement Location	Daytime $L_{Aeq,16hr}$ (dB)	Night Time $L_{Aeq,8hr}$ (dB)
A956 Road measurement	78.7	68.9

6.00 Road Traffic Noise Assessment

- 6.01 Road traffic noise levels at the proposed housing has been calculated with CadnaA® using assessed daytime, night time noise levels and the development site layout provided by Mackie Ramsay Taylor.
- 6.02 Where windows to dwellings are partially open for ventilation then it is assumed noise ingress is reduced by 15dB based on World Health Organisation recommendations. Applying this correction to internal noise limits, set out in section 3.04, gives trigger noise levels as set out in Table 3 below. Effectively where external noise levels due to all noise sources exceed these trigger noise levels then it indicates that permanent ventilation by partially open windows would result in an excess of internal noise limits within the building.

Period	External Noise Limit
Daytime, 07.00 to 23.00	50 dB $L_{Aeq,16hr}$
Night time 23.00 to 07.00	45 dB $L_{Aeq,8hr}$

- 6.03 The influence of road traffic noise on the development site has been determined using the assessed daytime and night time average noise levels set out in Table 3. Results are presented as noise level ranges in Table 4 below, along with the number of new dwellings where road traffic noise exceed limits.

Range of Daytime Levels $L_{Aeq, 16 \text{ hours}} \text{ (dB)}$	Range of Night Time Levels $L_{Aeq, 8, \text{ hours}} \text{ (dB)}$	Number of Residential buildings Where Noise Exceeds:	
		Daytime Trigger Level $L_{Aeq, 16 \text{ hours}} \text{ 55 (dB)}$	Night Time Trigger Level $L_{Aeq, 8, \text{ hours}} \text{ 45 (dB)}$
52.8 to 74.5	43.0 to 64.7	61	47

- 6.04 With reference to Table 4, it can be seen that of the 61 proposed residential buildings all are likely to have noise levels during daytime that exceed the trigger noise level, and at night time 47 are indicated with levels in excess of the trigger noise level. Detailed results determined from noise contour noise maps are shown in Appendix B.

6.05 PAN 1/2011 TAN Magnitude and Significance Assessments

6.06 A further assessment breakdown of the excess of noise sources over the trigger noise levels is given in Table 5 and Table 6 using TAN to PAN 1/2011 guidance in terms of ranges of exceedance.

Table 5: Daytime Road Traffic TAN to PAN1/2011 Assessment					
	Number of Residential Buildings exceeding Daytime Trigger Level, 50 dB $L_{Aeq,16hr}$ By:				
	<0	≤0 to <3 dB	≤3 to <5 dB	≤5 to <10 dB	>10
No. Houses	0	8	8	28	17
Magnitude of Impact	No adverse Impact	Negligible	Minor adverse	Moderate adverse	Major adverse
Significance of Effects	Neutral	Slight	Slight / Moderate	Moderate / Large	Large / Very Large

Table 6: Night Time Road Traffic TAN to PAN1/2011 Assessment					
	Number of Residential Buildings exceeding Night Time Trigger Level, 45 dB $L_{Aeq,8hr}$ By:				
	<0	≤0 to <5 dB	≤5 to <10 dB	≤10 to <15 dB	>15
No. Houses	14	30	10	5	2
Magnitude of Impact	No adverse impact	Negligible	Minor adverse	Moderate adverse	Major adverse
Significance of Effects	Neutral	Slight	Slight / Moderate	Moderate / Large	Large / Very Large

6.07 With reference to Table 5 and Table 6, for traffic noise the majority of proposed houses are likely to experience levels of no greater than trigger levels. Approximately 61 and 47 of proposed residential buildings are likely to experience traffic noise levels in excess of daytime/night-time trigger levels respectively.

6.08 The impact of Road Traffic noise levels during daytime and night time periods can be controlled to required internal noise limits using a strategy of closed windows with alternative means of ventilation. As this aspect can be controlled by appropriate design this should not be considered an impediment to granting the development planning permission.

7.00 Noise Mitigation

7.01 Levels of sound insulation required for the housing windows and ventilators have been determined using the method set in appendix G of BS8233:2014. This method determines internal noise levels likely to arise within a room using the façade incident noise level from both, road and industrial noise levels and the composite sound insulation performance of the building envelope. Calculations are based on meeting the following internal noise requirements.

Source	Accommodation	Period	Noise Limit
Road	Living Rooms/ Bedrooms	Daytime 07.00 to 23.00	45 dB $L_{Aeq,16hr}$
	Bedrooms	Night time 23.00 to 07.00	35 dB $L_{Aeq,8hr}$

7.02 Areas of façade elements and room dimensions are for a typical Bedroom as follows:

- Room Volume: 26m³
- Area of Façade Wall area: 9.5m²
- Area of Window: 1.5m²
- Single Ventilator

7.03 Noise ingress calculations assume the external facades of the development provide a sound insulation performance of at least 50 dB $R_w (C_{tr})$. It is recommended that a review of the façade construction is completed to verify this.

7.04 The required sound insulation performances for windows and ventilators of the proposed Residential development are tabulated below and houses where they need to be applied are shown in the Mitigation map shown in Appendix B. Ventilators performances are for them set in the open position.

Refer to Appendix B Mitigation map colour	Ventilators, $D_{new}(C_{tr})$ dB	Windows, $R_w(C_{tr})$ dB
Red ●	55 (-3)	45 (-7)
Orange ●	55 (-3)	40 (-5)
Purple ●	35 (0)	31 (-4)

7.05 Sound insulation performances summarised for windows in Table 8 are given in terms of single figure performances. It is recommended that where selecting

windows they should also provide the minimum octave band sound insulation performances set out in the Table 9:

$R_W (C_{tr})$ Performance dB	125	250	500	1k	2k	4k
31 (0)	24	20	25	35	38	35
40 (-5)	27	29	36	41	42	52
45 (-7)	28	32	43	46	48	55

7.06 Table 10 below gives example of double glazing configurations that typically provide the performances set out in Table 9.

Required Window Sound Insulation Performance, $R_W (C_{tr})$ dB	Double glazed window configuration typically providing required performance
31 (-4)	4 mm glass/12 mm air-gap/4 mm glass
40 (-5)	6.4mm glass /12mm air-gap/10mm glass laminate
45 (-7)	10mm glass/12mm air-gap/16.8mm glass laminate

⁽¹⁾This is also likely to be achieved by introducing a primary double glazed unit, and secondary single glazed unit with a large air gap of at least 150mm in between

7.07 Required octave band sound insulation performances for ventilators to the rear facade are set out in the table below.

$D_{n,e,w}$ Performance	125	250	500	1k	2k	4k
55(-3)	47	46	49	56	66	75
35(0)	32	36	36	35	34	35

7.08 The required sound insulation performances can typically be achieved by trickle ventilation or through wall ventilators from the following suppliers:

- <http://www.passivent.com/>
- <http://www.greenwood.co.uk/range/36/acoustic-ventilation.html>
- <http://www.rensonuk.net/>
- <http://www.titon.co.uk/pages/products/ventilators.php>

7.09 It is considered that where windows and ventilators to the building meet with the sound insulation performances set out above then BS8233: 2014 internal noise limits are likely to be met.



Report Authors:

Pedro Rodrigues,
MSc Civil Eng., MIOA (CEng)
Consultant

Checked By:

Lee Hadden,
BSc (hons), MSc, P.Dip, AMIOA
Consultant

Appendix A: Acoustic Glossary


Word	description
Acoustic environment	Sound from all sound sources as modified by the environment
Ambient Noise	Totally encompassing sound at a given location, usually composed of sound from many sources near and far
Background Noise	The lowest noise level present in the absence of any identifiable noise sources. This is usually represented by the L_{A90} measurement index.
Break-in	Noise transmission into a structure from outside
Break-out	Noise transmission from inside a structure to the outside
Cross-talk	Noise transmission between one room and another room or space
Ctr	Correction term applied against the sound insulation single-number values (R_w , D_w , and $D_{nT,w}$) to provide a weighting against low frequency performance
dB (decibel)	Defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and a reference pressure (2×10^{-5} Pa).
dB(A)	Level of sound across the audible spectrum with a frequency filter to compensate for the varying sensitivity of the human ear to sound at different frequencies at a lower SPL
Façade Level	A sound field determined at a distance of 1m in front of a building façade.
Free-field Level	A sound field measured at a point away from reflective surfaces other than the ground
Frequency (Hz)	Number of cycles of a wave in one second measured in Hertz.
Impact sound pressure level	Average sound pressure level in a specific frequency band in a room below a floor when it is excited by a standard tapping machine or equivalent
Indoor ambient noise	Noise in a given situation at a given time, usually composed of noise from many sources, inside and outside the building, but excluding noise from activities of the occupants

$L_{Aeq,T}$	$L_{Aeq,T}$ is defined as the equivalent continuous A-weighted Sound Pressure Level in dB over a given period of time.
L_{Amax}	Maximum A-weighted sound pressure level recorded over the measurement period. Usually has a time constraint (L_{afmax} , L_{asmax})
Measurement time interval, T_m	Total time over which measurements are taken
Noise	Unwanted sound.
Noise criteria	Numerical indices used to define design goals in a given space
Noise rating NR	Graphical method for rating a noise by comparing the noise spectrum with a family of noise rating curves. This is usually used to control noise that has tonal characteristics that $L_{Aeq,t}$ wouldn't detect.
Noise-sensitive premises (NSPs)	Any occupied premises outside the assessment location used as a dwelling (including gardens), place of worship, educational establishment, hospital or similar institution, or any other property likely to be adversely affected by an increase in noise level
Normalized impact sound pressure level	Impact sound pressure level normalized for a standard absorption area in the receiving room
Octave band	Band of frequencies in which the upper limit of the band is twice the frequency of the lower limit
Percentile level $L_{AN,T}$	A-weighted sound pressure level obtained using time-weighting "F", which is exceeded for N% of a specified time period
Rating level, $L_{Ar,Tr}$	Specific sound level plus any adjustment for the characteristic features of the sound
Reference time interval, T_r	Specified interval over which the specific sound level can be determined.
Residual sound	Ambient sound remaining at the assessment location when the specific sound source is suppressed to such a degree that it does not contribute to the ambient sound
Residual sound level, $L_r = L_{Aeq,T}$	Equivalent continuous A-weighted sound pressure level of the residual sound at the assessment location over a given time interval, T
Reverberation time T	Time that would be required for the sound pressure level to decrease by 60 dB after the sound source has stopped within a reverberant space



Sound level difference D	Difference between the sound pressure level in the source room and the sound pressure level in the receiving room
Sound power level, LWA	Ten times the logarithm to the base 10 of the ratio of the sound power radiated by a sound source to the reference sound power, determined by use of frequency-weighting network "A"
Sound pressure level	Is the Root Mean Squared value of the instantaneous sound level over a period of time expressed in decibels, usually measured with an appropriate frequency weighting
Specific sound level, $L_s = L_{Aeq,Tr}$	Equivalent continuous A-weighted sound pressure level produced by the specific sound source at the assessment location over a given reference time interval, T_r
Specific sound source	The sound source which is being assessed
Third octave band	Octave bands sub-divided into three parts, equal to 23% of the centre frequency
Weighted level difference Dw	Single-number quantity that characterizes airborne sound insulation between rooms, but which is not adjusted to reference conditions
Weighted standardized level difference $D_{nT,w}$	Single-number quantity that characterizes the airborne sound insulation between rooms

Appendix B: Noise Maps (next three pages)

- $L_{Aeq,16 \text{ hours}}$ Road Traffic Noise Map
- $L_{Aeq,8 \text{ hours}}$ Road Traffic Noise Map
- Mitigation Map

 FORT STREET HOUSE,
FORT ST, BROUGHTY FERRY
DUNDEE, DD5 2AB
01382 731813

 29 EAGLE STREET
CRAIGHALL BUSINESS PARK
GLASGOW
G4 9XA
01414 283 906

 cspacoustics.co.uk
 info@cspacoustics.co.uk



CSPAcoustics



CSPAcoustics

63 Fort Street Broughty Ferry
Dundee DD5 2AB
tel 01382731813

29 Eagle Street, Craighall Business
Park Glasgow, G4 9XA

www.cspacoustics.co.uk

Project

Residential development,
Charleston Loirston Cove,
Aberdeen

Client:
Mackie Ramsay Taylor

Ref:
1279 001 PR V1
Date:
May 2018

Road Traffic
DayTime Period
LAeq, 16hrs
Map height: 4m

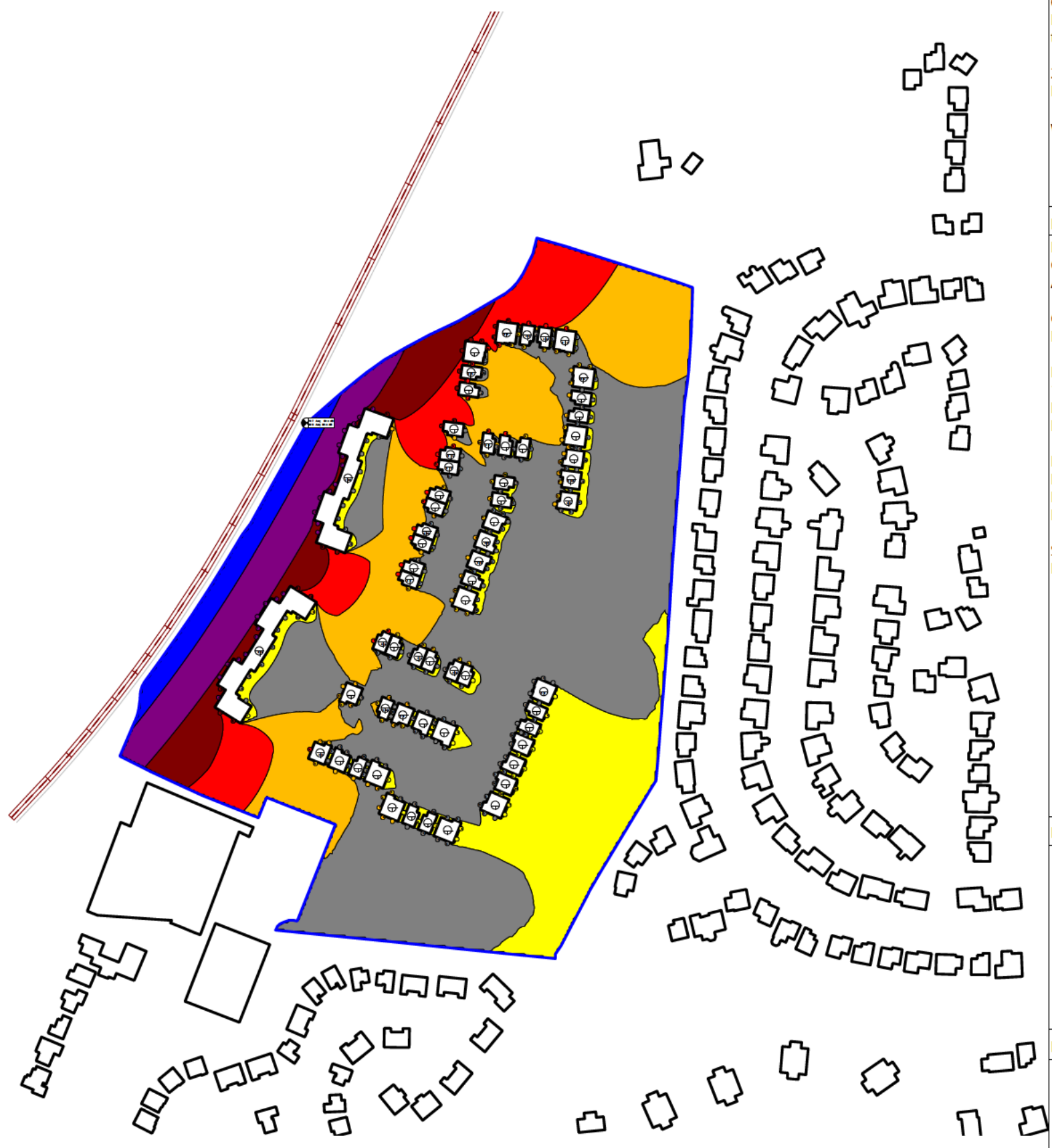
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Legend

- Road
- Building
- Receiver
- Building Evaluation
- Calculation Area

Noise Levels Contours (dBA)

- ... < 35.0
- 35.0 <= ... < 40.0
- 40.0 <= ... < 45.0
- 45.0 <= ... < 50.0
- 50.0 <= ... < 55.0
- 55.0 <= ... < 60.0
- 60.0 <= ... < 65.0
- 65.0 <= ... < 70.0
- 70.0 <= ... < 75.0
- 75.0 <= ... < 80.0
- 80.0 <= ... < 85.0
- 85.0 <= ...





CSPAcoustics

63 Fort Street Broughty Ferry
Dundee DD5 2AB
tel 01382731813

29 Eagle Street, Craighall Business
Park Glasgow, G4 9XA

www.cspacoustics.co.uk

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Mackie Ramsay Taylor

Ref:
1279 001 PR V1
Date:
May 2018













Road Traffic
Night Time Period
LAeq, 8hrs
Map height: 4m

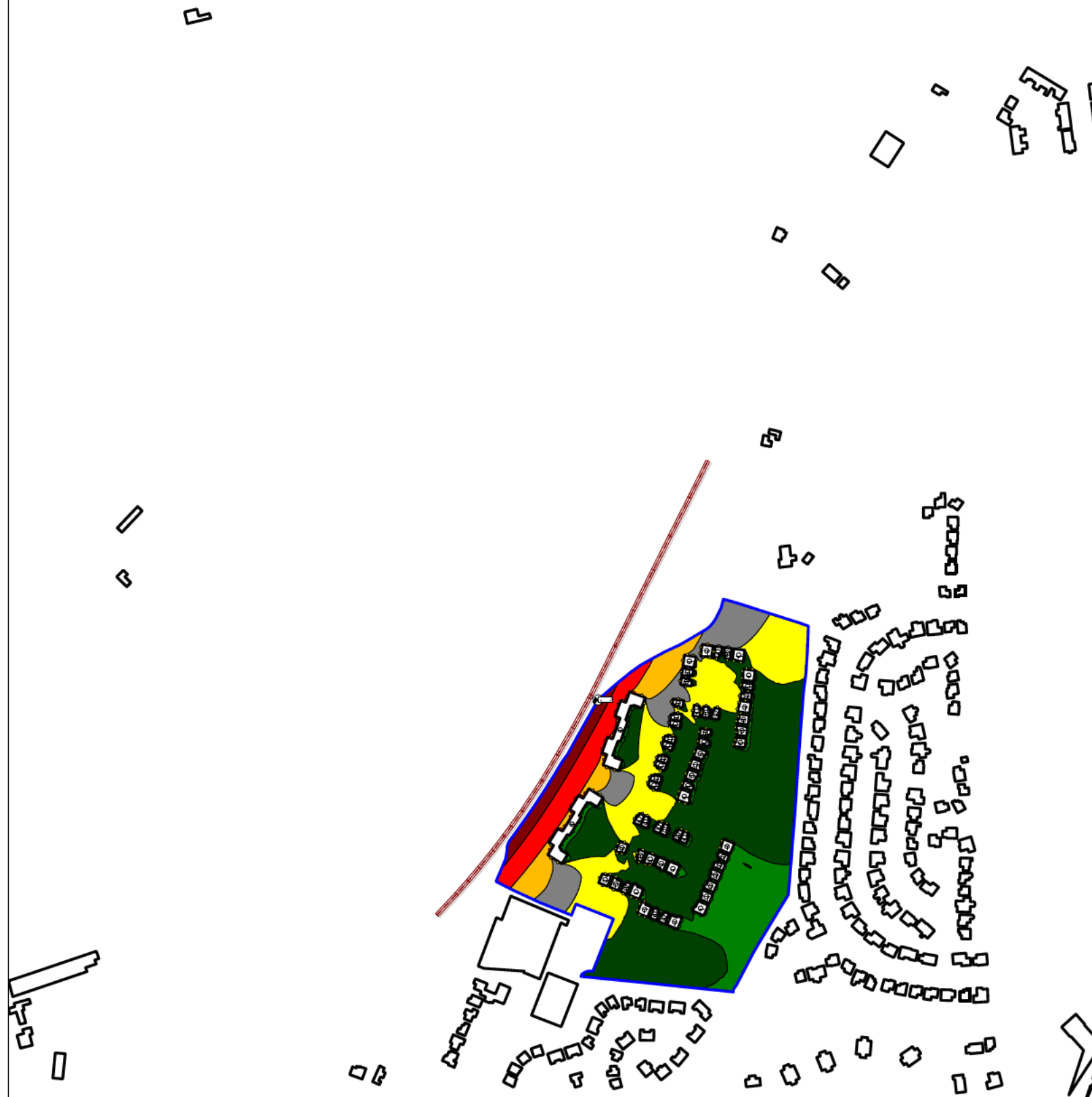
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Legend

-  Road
-  Building
-  Receiver
-  Building Evaluation
-  Calculation Area

Noise Levels Contours (dBA)

	... < 35.0
	35.0 <= ... < 40.0
	40.0 <= ... < 45.0
	45.0 <= ... < 50.0
	50.0 <= ... < 55.0
	55.0 <= ... < 60.0
	60.0 <= ... < 65.0
	65.0 <= ... < 70.0
	70.0 <= ... < 75.0
	75.0 <= ... < 80.0
	80.0 <= ... < 85.0
	85.0 <= ...





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Dundee DD5 2AB
tel 01382731813

29 Eagle Street, Craighall Business
Park Glasgow, G4 9XA

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Project

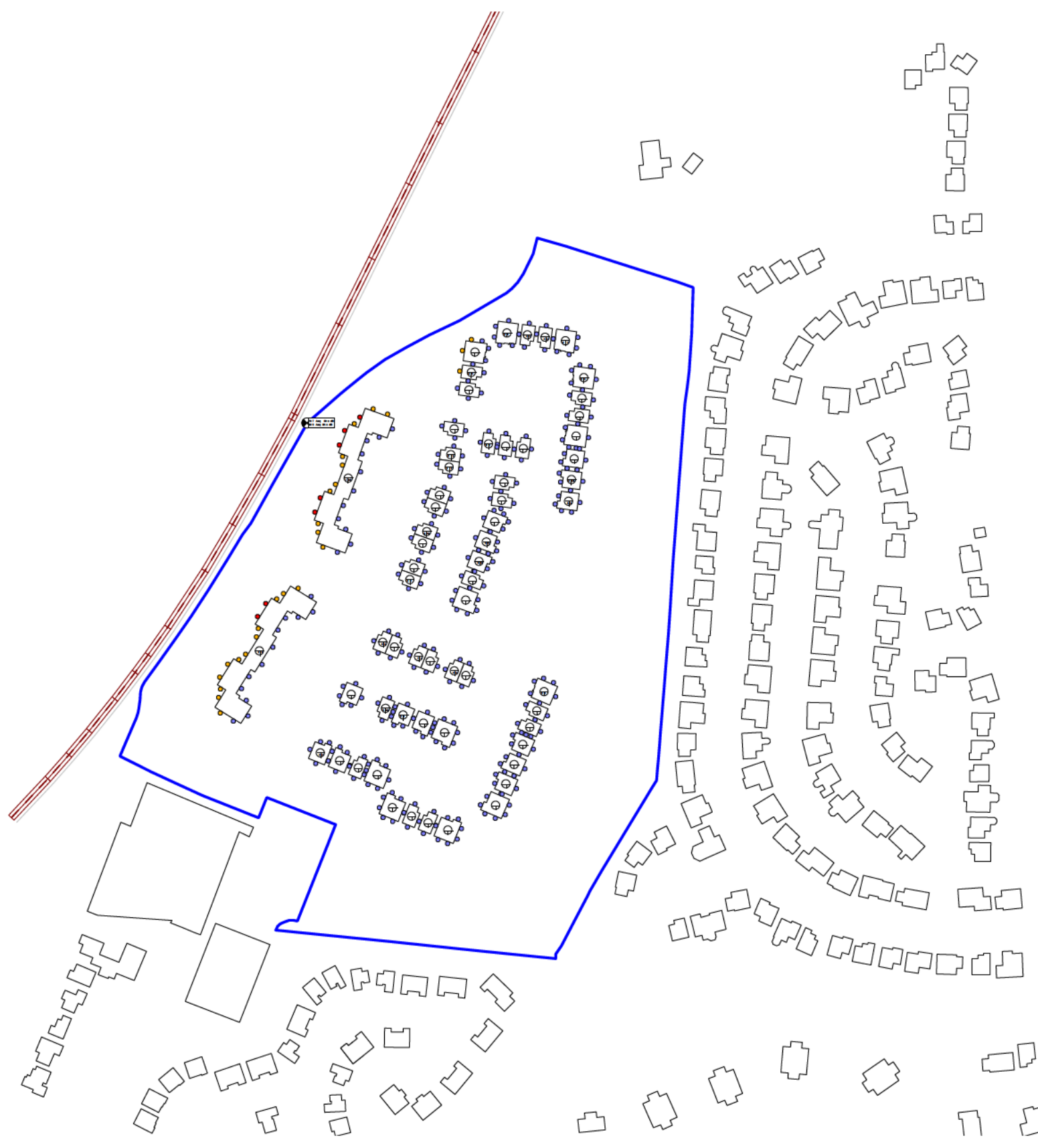
Residential development,
Charleston Loirston Cove,
Aberdeen

Client:
Mackie Ramsay Taylor

Ref:
1279 001 PR V1
Date:
May 2018

Mitigation Map
Refers to report
Table 10

Scale: No Scale
Print: A3



Legend

- Road
- Building
- Receiver
- Building Evaluation
- Calculation Area

Mitigation:

Table 10: Summary of Noise Impact Assessment Results for Road traffic.

Refer to Appendix B Mitigation map colour	Ventilators, $L_{w}(E_{a})$ dB	Windows, $L_{w}(E_{a})$ dB
Red	55 (-3)	45 (-7)
Orange	55 (-2)	40 (-2)
Purple	35 (0)	31 (-4)



**Aberdeen Local Development Plan review
Pre-Main Issues Report Consultation**

**Land at Heathvale, Cove
Transport and Access Appraisal Report**

May 2018

Prepared for:

Mactaggart & Mickel Homes Limited

Prepared by:

Transport Planning Ltd
93 George Street
EDINBURGH
EH2 3ES

www.tranplanworld.co.uk

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Report content	1
2. EXISTING TRANSPORT NETWORK	2
Introduction	2
Pedestrians and cyclists	2
Bus services	4
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3. POTENTIAL FOR DEVELOPMENT ON ALLOCATION SITE	6
Introduction	6
Development layout	6
Transport demand	6
4. SUMMARY	7

1. INTRODUCTION

Background

- 1.1 Transport Planning Ltd has been appointed to advise on transport issues associated with the potential allocation for residential development of land at Heathvale to the east of the A956 Wellington Road in Aberdeen City Council's (ACC's) review of their adopted Local Development Plan (LDP).

Report content

- 1.2 Following this introduction, the remainder of this report considers:
- Existing Transport Network: describes the existing transport infrastructure in and around the potential allocation site; and
 - Potential for Development on Allocation Site: provides information on the potential development area in terms of its potential links to the existing transport network and any associated transport infrastructure.
 - Conclusions.

2. EXISTING TRANSPORT NETWORK

Introduction

2.1 This section of the report discusses the existing transport network surrounding the site. The transport network has been considered using the following hierarchy as described in Scottish Planning Policy (SPP):

- pedestrians;
- cyclists;
- public transport; and
- private car.

2.2 Figure 1 in Appendix A shows the location of the proposed allocation site and Figure 2 in Appendix A shows the surrounding transport network. The site is bounded to the east by homes accessed from Charleston Crescent, to the south by an industrial unit and homes accessed from Lochinch Park, to the west by the A956 Wellington Road and Old Wellington Road and to the north by open grassland and a road forming a loop from the eastern side of the A956 Wellington Road.

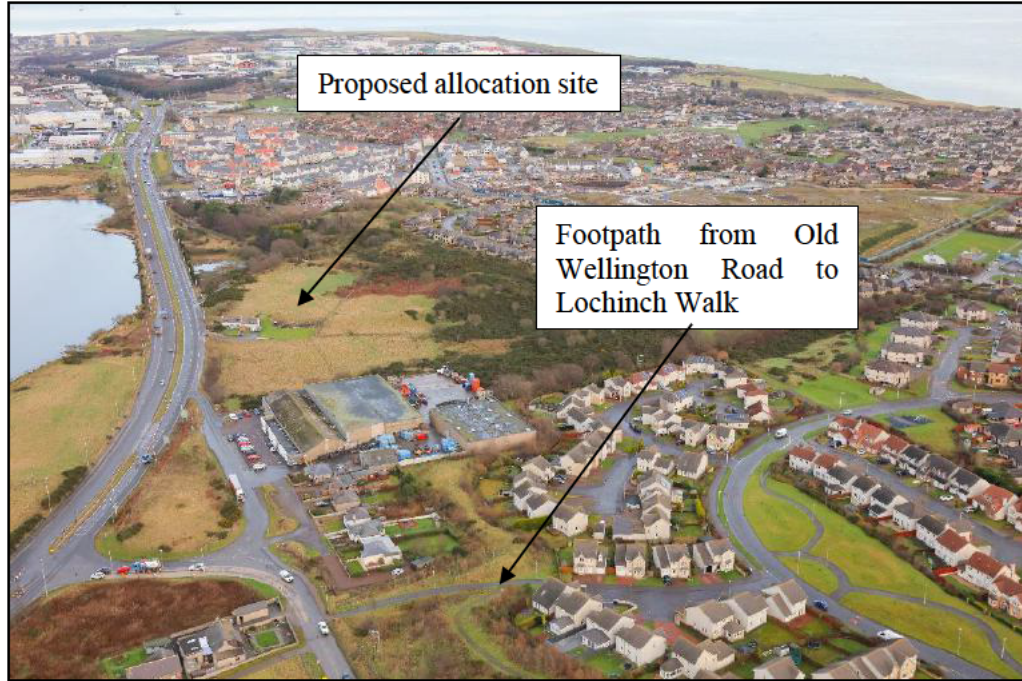
Pedestrians and cyclists

2.3 There is a shared-use cycle and footway on the eastern side of the A956 Wellington Road as it passes the proposed allocation site. This footway provides a link northward towards Charleston and the local facilities (such as shops) at the junction of the A956 Wellington Road and Charleston Road, around a nine-minute walk (around 750m) from the northern edge of the proposed allocation site.



Shared use cycle footway on eastern side of A956 Wellington Road

- 2.4 A footpath leads from the eastern side of Old Wellington Road eastwards to link with the footways on Lochinch Walk, a road serving a residential area to the south of the proposed allocation site. The footways on Lochinch Walk link with the footways on Charleston Drive, which in turn provide a route for pedestrians through to Cove Road and Charleston Road. Cove Road in turn provides a route to Core Path 78, which runs to the east of Cove Road and is shown in Appendix B.



Footpath linking Old Wellington Road to Lochinch Walk

- 2.5 There are footways on each side of Charleston Crescent on the eastern side of the proposed allocation site. There is an area of open space at the southwestern edge of Charleston Crescent, which borders the proposed allocation site. The footways on Charleston Crescent link with the footways on Charleston Road and provide a route to Charleston Primary School. It is around a three-minute walk (around 300m) from Charleston Crescent at the eastern edge of the open space to the primary school. A path also leads southwards from the area of open space to Charleston Drive.



Open space between Charleston Crescent and proposed allocation site

- 2.6 ACC and Aberdeen Cycle Forum produce maps showing cycle routes in the city and a copy of the map for the area around the proposed allocation site is provided in Appendix B. The map shows the shared use path on the eastern side of the A956 Wellington Road and how it links with the cycle infrastructure to the north. The map also shows the route of National Cycle Network (NCN) Route 1 along Cove Road and cycle routes towards Altens Industrial Estate.

Bus services

- 2.7 There are bus stops on Charleston Road at its southern junction with Charleston Crescent, around a two to three-minute walk (around 270m) from the southeastern corner of the proposed allocation site. There are further bus stops on Old Wellington Road at the footpath leading to Lochinch Walk, around a two-minute walk from the southwestern corner of the proposed allocation site. There is a further stop on Charleston Drive adjacent to the junction with Lochinch Walk.
- 2.8 The stops on Charleston Road are served by First's 18 service which, at the time of writing, serves Dyce, Danestone, Tillydrone Road, Aberdeen city centre, Kincorth, Redmoss and Charleston. It operates every 20 minutes Monday to Saturday daytime until the early evening.
- 2.9 The stops on Old Wellington Road are served by First's 3G service and Stagecoach's 7A and 7B services at the time of writing. The 3G route serves Mastrick, Aberdeen Royal Infirmary, Bridge Street and Guild Street in Aberdeen City Centre, Nigg and Gateway Business Park. There are five services on weekday mornings (the latest arriving at 0844) and five services on weekday evenings (the latest departures at 1743).
- 2.10 The 7A and 7B services link Aberdeen with Portlethen and Stonehaven. They operate hourly Monday to Sunday daytime with a service approximately every two hours in the evenings.

- 2.11 The stop on Charleston Drive is served by First's service number 3. This routes along Cove Road in both directions and loops clockwise around Charleston Drive. The route services Mastrick, Aberdeen Royal Infirmary, Bridge Street and Guild Street in Aberdeen City Centre, Nigg and Cove. It operates every 10 minutes during weekday daytimes, every 12 minutes during Saturday daytimes and every 30 minutes during Sunday daytimes and Monday to Sunday evenings.

Private car

- 2.12 Near to the proposed allocation site, the A956 Wellington Road is a dual carriageway with two lanes in each direction. To the north, it provides a route to Aberdeen city centre and industrial areas in Nigg and Altens. To the south, it provides a route to the A90 and will provide a route to the Aberdeen Western Peripheral Route when it opens. The junction of the A956 Wellington Road and A90 is less than a minute's drive time from the junction of the A956 Wellington Road and Old Wellington Road.
- 2.13 The junction of the A956 Wellington Road and Old Wellington Road is controlled by traffic signals. A slip road allows southbound traffic on the A956 Wellington Road to bypass this junction and enter Old Wellington Road around 50m to the east of the junction. Old Wellington Road provides a route to Aberdeen Gateway business park and Cove Road.

Summary

- 2.14 The information above shows that the surrounding transport network includes facilities for pedestrians (in the form of the footways on the A956 Wellington Road and Charleston Crescent and the footpath link to Charleston Drive), cyclists (in the form of the shared use path on the eastern side of the A956 Wellington Road) and bus passengers (in the form of the services on Old Wellington Road, Charleston Road and Charleston Drive).

3. POTENTIAL FOR DEVELOPMENT ON ALLOCATION SITE

Introduction

3.1 This section of the report provides initial comments on potential transport issues associated with the proposed allocation site.

Development layout

3.2 An indicative layout of development on the proposed allocation site is shown in Appendix B. The drawing shows that the proposed allocation site could be accessed by realigning and extending Old Wellington Road into the southwestern corner of the site. This would require the existing slip lane from the A956 Wellington Road to Old Wellington Road to be closed and traffic diverted to the signalised junction of the A956 Wellington Road and Old Wellington Road. A secondary emergency vehicle-only access is shown indicatively onto the road at the northern boundary of the proposed allocation site.

3.3 A footpath would be provided at the southeastern corner of the proposed allocation site, which would allow a link to be formed to the open space to the east and onwards to Charleston Crescent. This footpath would also provide a link to the footpath linking to Lochinch Park to the south. Pedestrian and cyclist connections could also be provided onto the existing shared-use path on the eastern side of the A956 Wellington Road, onto Old Wellington Road and onto the road forming the northern boundary of the proposed allocation site.

Transport demand

3.4 Data from the 2011 census was inspected to understand the mode of travel to work or study from residents of the existing houses adjoining the proposed allocation site. The data from the census relates to ‘All people aged 4 and over who are studying or aged 16 to 74 in employment in the week before the census’ and hence includes schoolchildren. That data is summarised in Table 3.1 below.

TABLE 3.1: DATA FROM CENSUS ON MODE OF TRAVEL TO WORK OR STUDY

Train	Proportion using mode							
	Bus, minibus or coach	Taxi or minicab	Driving a car or van	Passenger in a car or van	Motorcycle, scooter or moped	Bicycle	On foot	Other
0%	17%	1%	50%	14%	0%	2%	12%	5%

3.5 The data in Table 3.1 above shows that half of residents of the existing houses adjoining the proposed allocation site drive on their journey to or from work or study, with around 31% choosing to walk, cycle or catch a bus for that journey.

3.6 Should the proposed allocation site be allocated for residential development, then any subsequent planning application would be accompanied by a Transport Statement or Assessment which would consider the likely transport demand arising from the development and assess the effects of this on the surrounding transport network. This assessment would include a detailed analysis of the operation of the key junctions on the surrounding road network.

4. CONCLUSIONS

- 4.1 This report has shown that the proposed allocation site is well-situated for access to the surrounding transport network, including access by foot to key destinations such as Charleston Primary School. It is considered therefore that there are no transport-related reasons why the site cannot be allocated for residential development.

APPENDIX A

FIGURES

**Proposed Residential Allocation
Heathvale, Cove**

Site Location Plan

Key

A Site of Proposed Development



Proposed Residential Allocation
Heathvale, Cove

Site Location Plan

Mactaggart and Mickel

Drawing Number:
TP494 Figure 1

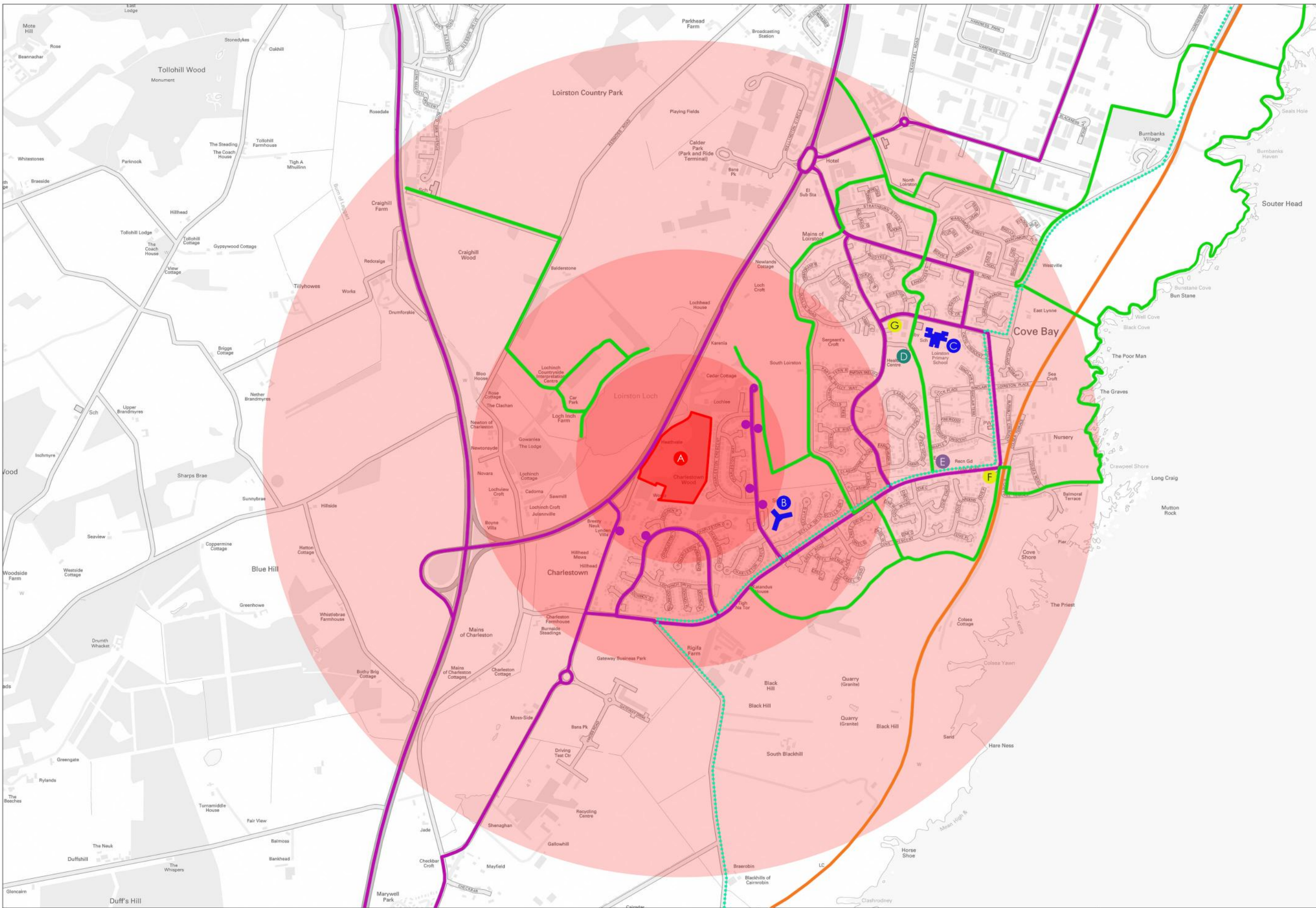
Drawn by:
NW

Date:
May 2018

Scale:
NTS @ A3

Checked by:
IL





**Proposed Residential Allocation
Heathvale, Cove**

Accessibility Plan

Key

- A Site of Proposed Development
- B Charleston Primary School
- C Loirston Primary School
- D Cove Bay Health Centre
- E Loirston Annex Community Centre
- F McColl's Convenience Store
- G Co-op Foodstore
- Core Path
- - - Cycle Route
- Bus Stop/Route
- Train Station/Route
- 400m Isochrone from Site
- 800m Isochrone from Site
- 1600m Isochrone from Site



Proposed Residential Allocation
Heathvale, Cove

Accessibility Plan

Mactaggart and Mickel

Drawing Number:
TP494 Figure 2

Drawn by:
NW

Date:
May 2018

Scale:
NTS @ A3

Checked by:
IL



APPENDIX B

DRAWINGS





Use underpass going north and shared path going south

See City Centre Inset Overleaf

To Stonehaven, NCN Route 1

16
17
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32
33

KEY



Toucan Crossing / useful Pedestrian Crossing



Care Needed



One-way arrow



Recommended Route



On Road Cycle Lane



Bus, Cycle and Taxi Lane



Dual Use Path



Busy but Useful Road



Off-Road Recreational Route



Path Where Cyclists May Have To Dismount



National Cycle Network, Route 1 (Under Review) and Route 195



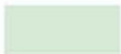
Cycle Friendly Access Point



Access Point



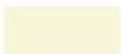
Rail



Wood, Forest or Park



River/Lake



Urban Area

2017 Update

Aberdeen Cycle Forum, its supporters and sponsors can accept no responsibility for the consequences of any errors or omissions arising from this map.

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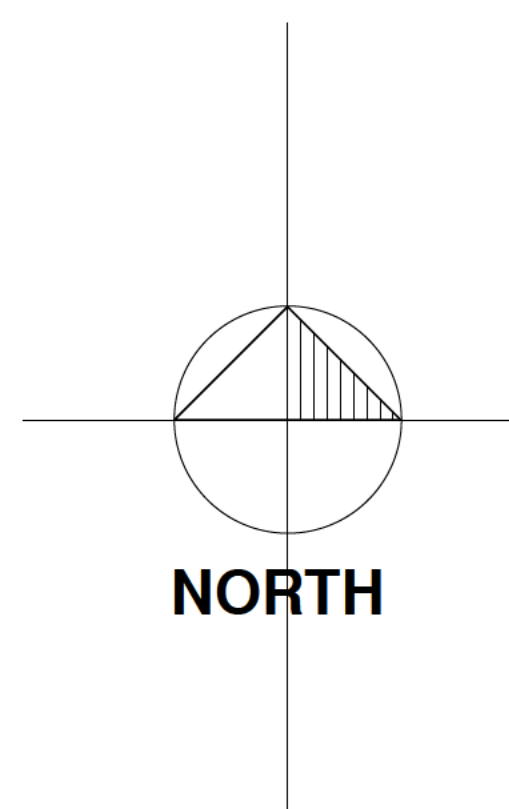


Schedule
Site Area - 6.2 ha

120 Units

30 Open market Flatted Units
30 Affordable Flatted Units
60 House Plots

- 6 No Adam (A)
- 20 No Bryce Detached (B1)
- 14 No Bryce Semi (B2)
- 14 No Douglas (D)
- 6 No Miller (M)
- 30 No 600 sq.ft 2 bed flat 3 Storey (F1)
- 30 No Affordable 600 sq.ft 2 bed flat 3 storey (F2)



Rev	Description	Date



47 Victoria Street, Aberdeen, AB10 1QA
T : (01224) 639295 F : (01224) 637956
E: mail@mrtarchitects.com W: www.mrtarchitects.com

Project
RESIDENTIAL DEVELOPMENT

HEATHVALE
CHARLESTON, ABERDEEN
Drawing
INDICATIVE SITE LAYOUT PLAN

Scale 1:1000@A1

Status PRELIMINARY

Date SEP '17 Drawn By AHT

Project No. 2075	Drawing No. L(00)02
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