NOTTING DALE HEAT NETWORK

Project Description and Objectives

Procurement Reference 269

September 2022

Contents

1. Glossary

Term	Definition
Academy	Kensington Aldridge Academy
Advisers	all professional advisers of the Client involved in the Procurement
ASHP	Air Source Heat Pump
ASHP 1	the plant room which will be located on the roof of Kensington Leisure Centre to contain a 1.5MW ASHP and associated equipment, also referred to as Lancaster West Air Source Heat Pump 1.
ASHP 2	the plant room which will be located on the roof of Treadgod House to contain a 0.6MW ASHP and associated equipment, that initially will supply heating and hot water solely to Treadgold House but will form part of the Heat Network once this has connected to Treadgold House. Also referred to as Lancaster West Air Source Heat Pump 2
Authority	see Client
Award Criteria	criteria used by the Authority to determine which of the tenders represents the most economically advantageous tender, in accordance with Regulation 82 of the UCR 2016
BEIS	Department for Business, Energy and Industrial Strategy
Bid	written bid proposal submitted by a Bidder as part of this procurement process at any stage of the Procurement (including any Initial Tender or any Final Tender)
Bidder	any individual, organisation and/or consortium who has passed the SQ and has had their Initial Tender evaluated by the Authority
BMS	Building Management System to control the Heat Network's plant and equipment
Bulk heat meter	heat meter at each Substation serving a residential block of social housing
Client	procuring entity for the D&B contract which is Kensington & Chelsea Council
Commercialisation	predevelopment stage of the Project immediately prior to Final Investment Decision, during which all contracts and agreement will be procured, and Project will be subject to final approvals. It typically follows DPD stage.
CoP1	heat networks code of practice (2020) published by CIBSE
Council	Kensington & Chelsea Council
CPI	Consumer Price Index

Customers	identified heat users that will be served by the Heat Network.
D&B Contract	contract (including all schedules) between the Authority and the successful bidder for the provision of works in respect to the Secondary Networks and Tertiary Networks, see Section 11.2.
D&B Contractor	contractor to be appointed by the Authority to deliver the D&B Contract works
DBOM Contract	contract (including all schedules) between the Authority and the successful Bidder for the provision of works and services, see Section 11.1.
DBOM Contractor	contractor to be appointed by the Authority to deliver the DBOM Contract works and services
Delivery Point	defined point of technical and contractual separation between the Heat Network and a non-residential Customer which is the heat exchanger within the relevant Substation
Energy Centres	combined term for ASHP 1, ASHP2, Renewable Boiler Room and Renewable Heat Store
Estate	the Lancaster West Estate, in North Kensington
Feedback Meeting	meeting between a Bidder and the Authority to discuss the Contract
FID	Final Investment Decision to be taken on the Project by the Authority subsequent to which all commercial contracts and funding agreements are to be signed
Final Tender	final tender bids that Bidders will be invited to submit in response to the Authority's ISFT document
Heat meter	heat meter at the HIU serving a residential Customer, or at the Substation serving a non-residential Customer
Initial Tender	A tender submitted in response to this ISIT
ISIT	this Invitation to Submit Initial Tenders document (including all Appendices)
ISFT	the Initiation to Submit Final Tenders document (including all Appendices) that will be issued to Bidders following the conclusion of the ITN negotiation stage
ITN	the Invitation to Negotiate document issued to Bidders at the commencement of the Negotiation Stage
ITT	the Invitation to Tender
Lancaster West Renewable Heat Network	the Notting Dale Heat Network
Leisure Centre	Kensington Leisure Centre

Leisure Centre Plant Room	Kensington Leisure Centre plant room that will house the Substation to serve this property together with the gas boilers that are to be retained as a source of back-up heat for the Heat Network
LWE	the Lancaster West Estate
LWNT	the Lancaster West Neighbourhood Team
Negotiation Meeting	the meeting(s) between a Bidder and the Authority to discuss the Bidder's technical solution and price proposal
Negotiation Stage	the Stage of the Procurement commencing with the issue of the ITN and ending with the issue of the ISFT
Notting Dale Heat	the local energy company set up and 100% owned by Kensington and Chelsea Council to manage the design, build, operation and maintenance of the Heat Network
Notting Dale Heat Network	the zero carbon heat network of which Phase 1 is to serve the Lancaster West Estate, and which is intended to be extended into the wider Notting Dale ward in order to serve further heat users (Phase 2)
O&M Services	operation and maintenance services that are to form part of the DBOM Contract, as defined within the O&M Scope of Works
Portal	electronic portal that will be used by the Authority for receiving SQ and Tender submissions and managing all correspondence in relation to all stages of this procurement
Preferred Bidder	the Bidder which has been assessed by the Authority as having the most economically advantageous Final Tender (or in the case where the Authority has decided to award on the basis of Initial Tenders, the most economically advantageous Initial Tender)
Preferred Bidder Stage	process as described in paragraph 3.31 to 3.33 (inclusive) of the ISIT
Primary Network	circulation pipework (with flow and return) between the Energy Centres and the Substations
Procurement Documents	means any document, survey and drawing issued by the Authority as part of this procurement process, see schedule in Section 18
Project	proposal to develop a zero carbon heat network at the Estate as referred to within the Contract Notice, described in the Project Description and as detailed in the Procurement Documents. Also formally referred to as Phase 1 of the Lancaster West, Renewable Heat Network
Project Team	see Section 6 of the Project Description and Objectives
Purchaser	See Client

RBKC	Royal Borough of Kensington & Chelsea Council
Refurbishment Programme	refurbishment of the Estate currently underway and being led by the Council
Renewable Boiler Room	the Lancaster West Renewable Boiler Room at the end of Camelford Court, is an existing energy centre, where the existing gas boiler is to be replaced under the DBOM Contract with a new electric boiler and ancillary equipment
Renewable Heat Network	overall assets to be created under the DBOM contract, together with their use by Notting Dale Heat (supported by the services provided under the DBOM Contract) to supply heat to Customers. Also formally referred to as the Lancaster West, Renewable Heat Network.
Renewable Heat Store	thermal store and ancillary equipment to be installed between Kensington Aldridge Academy and Kensington Leisure Centre, formally referred to as the Lancaster West, Renewable Heat Store
Resident Panel	panel of residents which the Authority will invite to provide feedback to Bidders
Risk Sharing Comments	the comments that Bidders are invited to share regarding the aspects of the Contract that the Bidder considers do not represent an appropriate risk sharing position
Secondary Network	pipework connection (with flow and return) connecting the Primary Network to the HIU serving each dwelling (house or flat), including the HIU itself
Selection and Initial Tender Stage	stage of the Procurement commencing with the issue of the SQ and ISIT and ending when the Authority decides whether or not to award the Contract following evaluation of Initial Tenders
Specification	means the specification to the Contract setting out the Authority's needs and requirements for the Project, also referred to as the Stage 3 Design.
SQ	Selection Questionnaire which Candidates wishing to participate in this procurement must complete and submit as part of the Selection and Initial Tender Stage
Stage 2 of the procurement	stage of the Procurement commencing with the issue of the ISFT and ending with the identification of the Preferred Bidder following the evaluation of Final Tenders
Stage 3 Design	Design report prepared by the Client's technical advisers, TACE and Ramboll
Substation	point of interface between the Primary Network and, in respect to the residential properties, each Secondary Network and, in respect to each of the Academy and Leisure Centre, their internal heating system
TACE	M&E services consultant for the Refurbishment Programme and Owner's Engineer for the Project
Tender	See Bid

Tertiary Network	heat network (including flow and return) within each dwelling (house or flat) downstream of the HIU (i.e. excluding the HIU) comprising the radiators, valves, pipework and temperature control system

1. Procurement documents route map

The following diagram illustrates the structure of the main procurement documents within the Invitation to Tender:

Notting Dale Heat Network – Tender Document Summary

Invitation to Submit Initial Tender (ISIT)

The purpose of this document is to:

- **provide information regarding the timetable and structure of the Procurement**
- **set out the RBKC's requirements for the Project**
- **set out the requirements of the Standard Questionnaire for completion by Bidders**
- **set out the Initial Tender Questions to be submitted by Bidders**
- **set out the evaluation criteria, sub-criteria, weightings and methodology for Tender response evaluation**
- **Procurement Conditions**
- **Certificates of non-collusion and non-canvassing**

The ISIT is supported by a number of other documents – a full list is provided in the Document Schedule.

Contract Document

The purpose of this document is to set out the legal responsibilities and obligations of the Contractor for the delivery of the scope of work, the pricing and programme and remedy regime.

It represents the contract that will be entered into with the selected contractor once the Procurement process and all governance is completed.

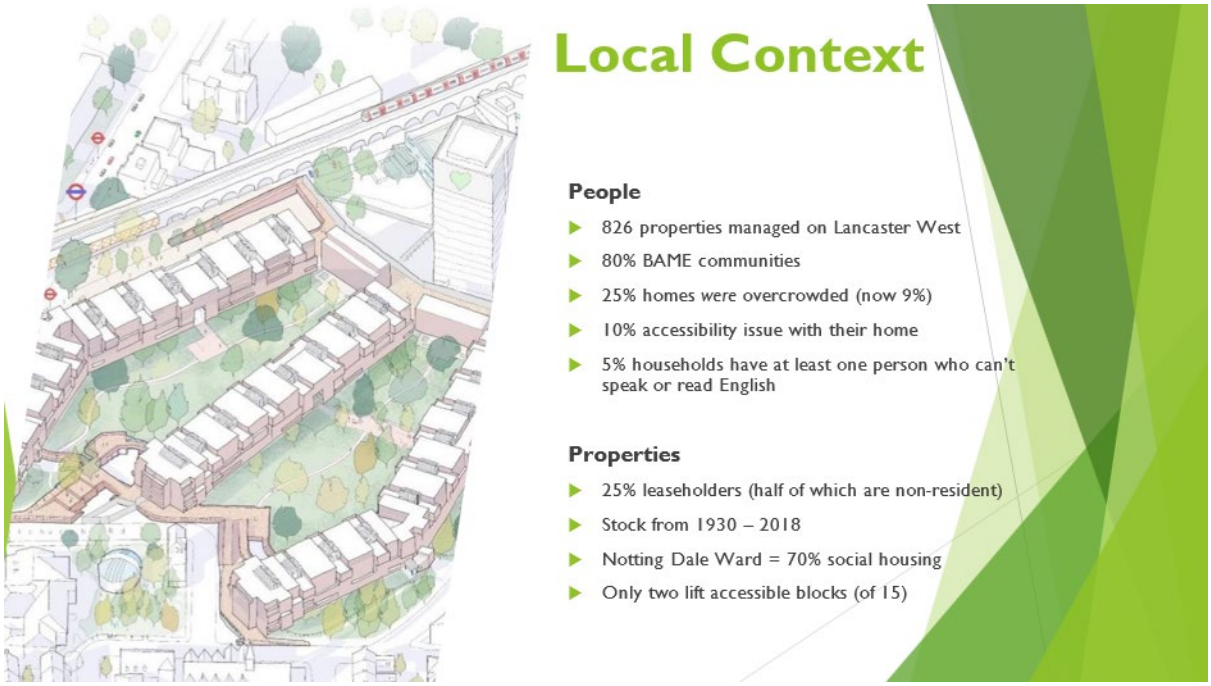
It is proposed that the Schedules will be populated using bidder information during the further tender stage

2. The Bigger Picture

The Council is landlord for 826 Council-owned homes (both tenanted and leasehold) on the Estate.

Following the Grenfell Tower tragedy in 2017, the Lancaster West Estate (the Estate), in North Kensington, is undergoing a comprehensive refurbishment of its social housing and landscaping with a deep energy retrofit to improve its energy performance.

The local context of the estate is summarised below:



2.1 Vision for the Lancaster West Estate

In delivering a refurbishment programme (the Refurbishment Programme) at the Estate both Kensington & Chelsea Council (the Council) and central government have committed to "Deliver a model social housing estate for the 21st century where residents can live in affordable comfort."

The Lancaster West Neighbourhood Team (LWNT) is working with residents to deliver this refurbishment sensitively and collaboratively.

Subsequently, in 2020, the Council declared a Climate Emergency with a target of the Council's operations and housing stock being carbon neutral by 2030, and the entire borough to be carbon neutral by 2040. To support the Council to deliver its decarbonisation ambition:

- The Lancaster West Estate Sustainability Strategy sets out a vision for "Lancaster West to become a model net-zero carbon estate by 2030."
- A successful Future Neighbourhoods funding bid aims for the wider Notting Dale ward, which includes Lancaster West Estate, to become the UK's largest eco-neighbourhood.

2.2 Principles agreed with residents

Following the Grenfell Tower tragedy the following 10 core principles were agreed by the Council with residents at the Estate:

1. The refurbishment will be resident led.
2. All refurbishment work will be done sensitively and in co-operation with residents.
3. There will be no demolishing of people's homes on the Lancaster West Estate.
4. We will create a model estate where the community can be proud to live and that the council can be proud to own.
5. We will make sure residents can make real choices on the refurbishment.
6. We will listen to all age groups and communities on what improvements they want to see.

7. The refurbishment will aim to provide local jobs and skills training for local people
8. The refurbishment will improve local services, so they are of a high quality.
9. The refurbishment will create a sustainable estate that can be maintained to a high standard.
10. There will be transparent decision-making and Council feedback provided at each stage.

2.3 Refurbishment Programme objectives

In turn, the following main objectives have been set by the Council for the Refurbishment Programme at the Estate:

1. Refurbishing the Lancaster West Estate and all other properties managed by the Lancaster West Neighbourhood Team to a high standard of energy performance.
2. Reducing operational carbon emissions on the estate as far as possible and offsetting any remaining emissions to achieve net-zero.
3. Co-designing a sustainable and affordable future with residents.
4. Pioneering a net-zero carbon approach for the rest of Kensington and Chelsea borough.

These objectives form part of the masterplan for the Refurbishment Programme for which a considerable emphasis is being placed on achieving a high level of thermal insulation to meet EnerPhit standards.

In delivering the Refurbishment Programme, the Council's firm intent is to maximise fire safety and to maximise residents' sense of safety where technically possible.

The Refurbishment Programme is being managed by Lancaster West Neighbourhood Team (the Neighbourhood Team), a partnership between the Council and residents. The residents have contributed their thoughts and requirements through an engaging process of Resident Co-Design.

2.4 Vision for the Heat Network

Background

Currently 80% of Lancaster West Estate homes are connected to the two existing heat networks served by large gas boilers that were built in the 1970s, are close to end-of-life and to be completely replaced. Over 50% of residents at the Estate report a heating and hot water problem every 6 months creating a compelling case for change.

At the same time the government's direction of travel is therefore clear. For example, the Future Homes Standard will see gas boilers and other fossil-fuel heating sources banned from new homes. With gas being phased out, its use is no longer an option for the Estate's future heating and hot water solution.

As a result, a zero-carbon heat network scheme (the Heat Network), being developed by a specialist project team, forms a key part of the Refurbishment Programme.

Ownership of the Heat Network

Kensington and Chelsea Council incorporated Notting Dale Heat Limited in January 2022 to manage the design, build, operation and maintenance of the Notting Dale Heat Network, with Phase 1 of which serving the Estate. starting at Lancaster West (Phase 1) with the intention of soon moving to expand into the wider Notting Dale Ward (phase 2) and beyond.

This local energy company, which trades as 'Notting Dale Heat' and is 100% owned by the Council.

Vision of Notting Dale Heat

Notting Dale Heat's vision is for the Heat Network is to put customers first, rely solely on 100% renewable energy sources and to help tackle fuel poverty.

The Objectives for the local energy company are to:

1. Deliver a highly reliable heat network
2. Work in partnership with our residential and commercial customers to deliver an excellent customer experience
3. Do all we can to protect customers from rising energy prices and fuel poverty
4. Support the Council to move towards carbon neutrality by 2030
5. Create a nationally significant model, which Notting Dale Heat rolls out across the Borough and beyond

Phase 1

The first phase of the Heat Network is to serve the Lancaster West Estate as described in Section 4 below.

Further potential expansion

As shown below the Council is already developing the Business Case to expand the Heat Network.

Notting Dale Heat Network

An Outline Business Case for Phase 2 expansion of the Heat Network started in May 2022 and is on track for submission for Council approval by December 2022. Phase 2 aims to expand the Phase 1 heat network through expansion into Notting Dale Ward and other heat loads just outside the Ward boundary. A decision whether to proceed will be taken during Q1 2023, subject to successful grant applications.

Phase 2 is likely to more than double the Phase 1 heat load, with ASHP 1 potentially extending its operating hours to contribute towards supplying the additional Phase 2 heat demand. The following provides an indication of what the Phase 2 plant and equipment may entail:

- Estimated heat demand: 8 GWh per year, 5 MW peak demand.
- Base load heat production: circa 0.5MW ASHP.
- Standby and peaking heat production: up to 6 MW electric boiler/s.
- 50m3 thermal store.
- Estimated heat network trenched length: 4 km.
- Approximate heat network main spine size: DN150
- Estimated CapEx: £10m.

A Cross Borough Energy Masterplan is also being undertaken in parallel to Phases 1 and 2, to help prioritise future heat network opportunities across both the Kensington and Chelsea borough, and the neighbouring borough of Hammersmith and Fulham. It will provide a route map to help decarbonise heating and hot water in both boroughs, informing decisions about Heat

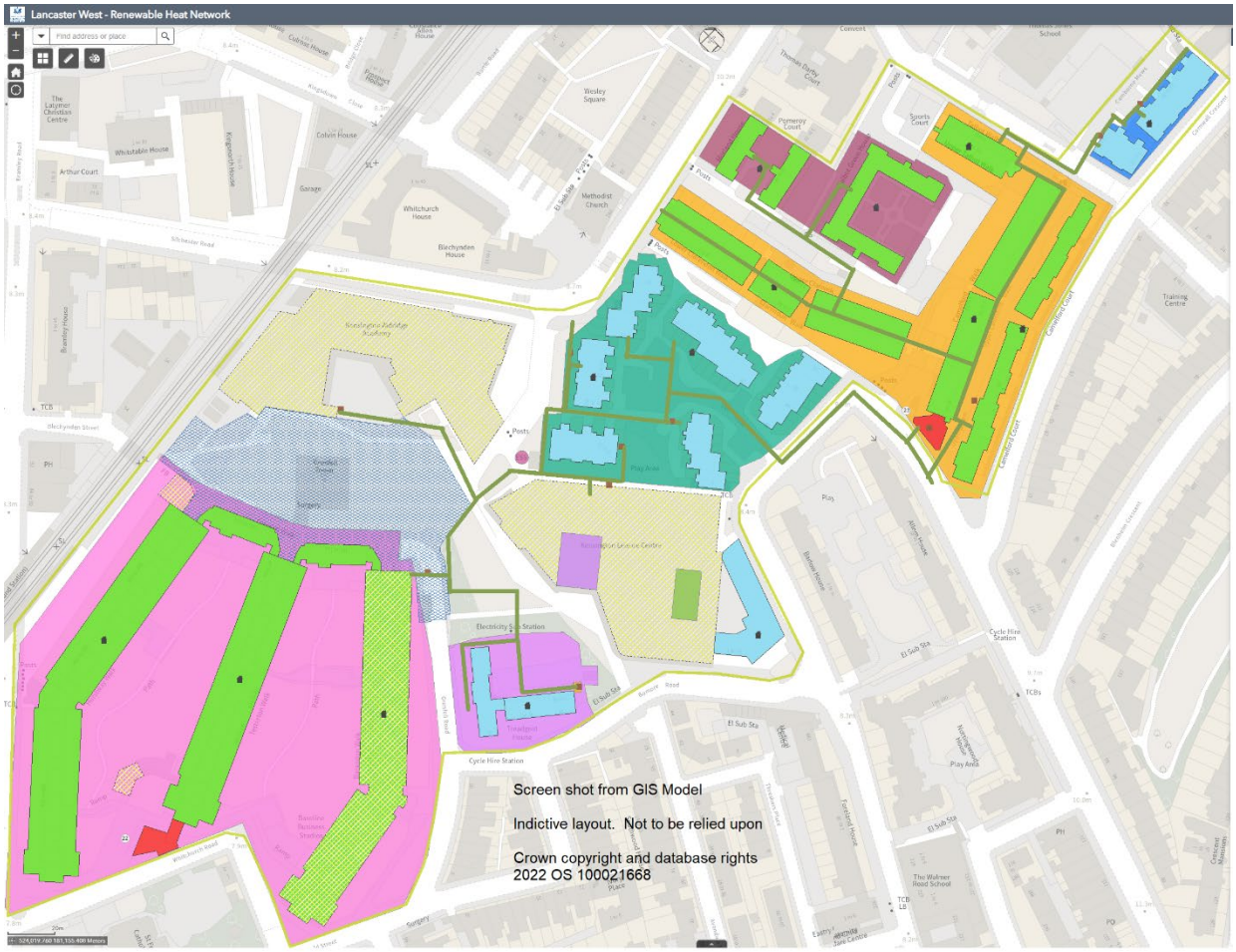
Zone(s). The Masterplan creates the opportunity to evaluate heat demand certainty so encouraging future heat network expansion.

4. Heat Network (Phase 1)

4.1 Scope

Geographic boundary

The red line geographic boundary of the Estate is shown in the GIS map below, the Autocad file for which is included in the Tender Pack as 'ISIT - 2F, GIS Autocad file.'



Heat Networks

Lancaster West - Renewable Heat Network

Labels

Sub-Station Locations

LWE Residential Buildings

Heat Network Route

Energy Centres - Existing

- Existing Energy Centres

Energy Centres - New

- A - Lancaster West, Air Source Heat Pump 1
- B - Lancaster West, Air Source Heat Pump 2
- C - Lancaster West, Renewable Heat Store
- D - Lancaster West, Renewable Boiler Room
- E - Kensington Leisure Centre, Basement Plant Room

Building Types

- Residential buildings connected to existing district heating systems
- Residential buildings with individual heating systems
- Non Residential buildings connecting to the new heat network

Opportunity Areas for HN

Areas

- Lancaster West Neighbourhood Team Area
- Department of Levelling Up and Communities Area

Lot / MDC Data

- Lot 1 - Walkways
- Lot 2 - Clarendon, Camelford, Talbot
- Lot 3 - Morland & Talbot Grove House
- Lot 4 - Treadgold House
- Lot 5 - Camborne Mews
- Lot 6 - Verity Close

Grenfell Tower and Grenfell Walk are outside of the Project's scope. The site of Grenfell Tower and immediate surrounding area is controlled by the Department of Levelling Up, Housing and Communities (DLUHC).

The Grenfell Tower Memorial Commission, made up of representatives of the bereaved, survivors and local residents, will decide on the most fitting and appropriate way to remember those who lost their lives in the Grenfell tragedy. It is noted that if any subsequent activity overlaps within the timescale of the Refurbishment Programme and construction of the heat network, this will form part of the site-wide plans to minimise disruption to residents.

4.2 Funding secured

The Project is currently at Commercialisation Stage having been being part-funded by the GLA's Local Energy Accelerator.

A capital grant of £1.116m of capital grant funding towards the construction stage has been awarded by the government's Heat Network Infrastructure Project (HNIP), a £320m fund created by the Department of Business, Energy & Industrial Strategy (BEIS) to support the development of new heat networks. The remaining capital funding is being provided through £17.5m of Housing Revenue Account (HRA) funding and 'in principle' corporate funding, subject to Final Investment Decision (FID) by the Council – see the Heat Network Programme in Section 13.

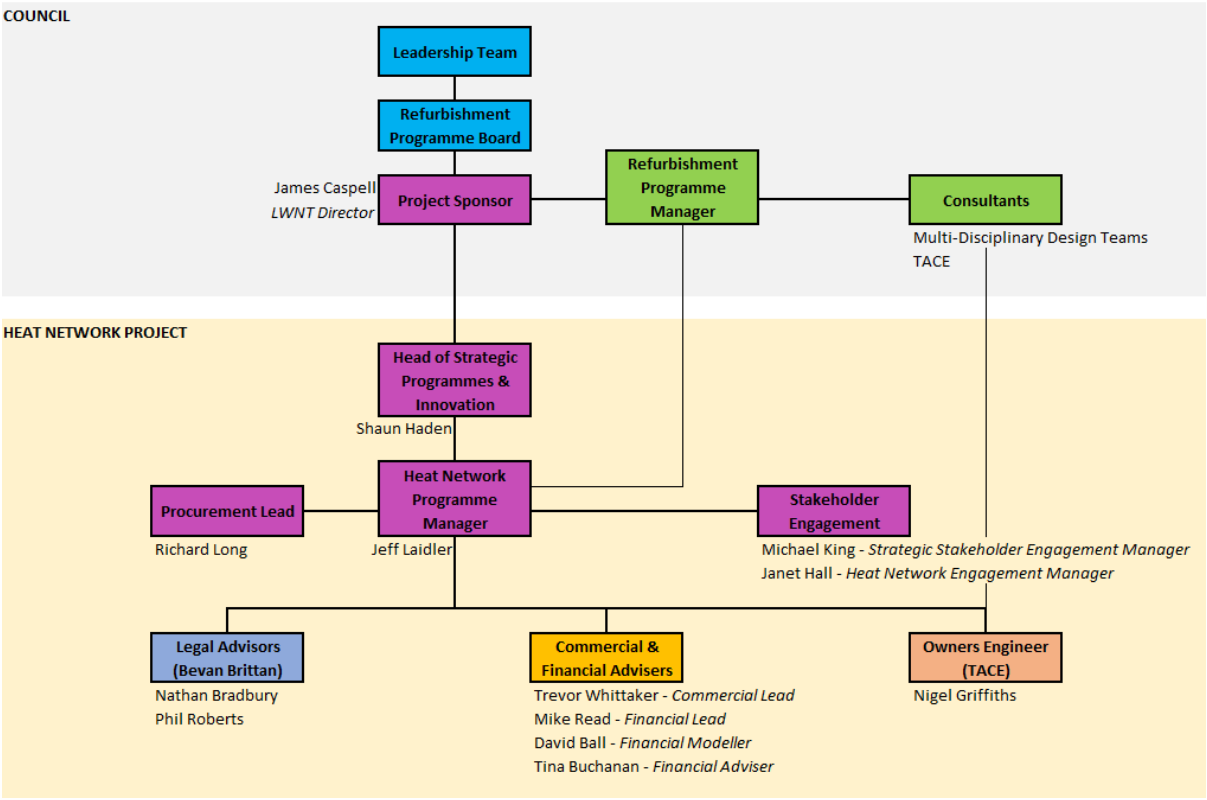
4.3 Regulation

The Council will apply to register the Heat Network with the Heat Trust.

4.4 Project governance

A formal structure is in place to ensure rigorous governance of the Project. This is shown diagrammatically below:

Notting Dale Heat Network



The Heat Network shares the same Project Sponsor as the Refurbishment Programme, being the Director of the Lancaster West Neighbourhood Team (LWNT).

4.5 Governance of Notting Dale Heat

The board of the local energy company, Notting Dale Heat Limited, meets quarterly and/or when there are relevant matters to be discussed / decided and had its first board of directors meeting in February 2022.

It currently has two existing Council directors and two resident directors with two industry directors being recruited. In addition, a managing director and independent chair are to be recruited after Final Investment Decision, which is scheduled for March 2023.

Oversight within the Council of the local energy company (together with the Council's housing company) is provided by a Shareholder Committee, with representation from the three Leadership Team members with relevant portfolios, namely Finance and Customer Delivery (Chair); Housing, Social Investment and Grenfell Recovery; and Environment.

The activities of the local energy company are subject to a delegations' matrix and shareholder's agreement. Within the delegations' matrix, strategic decisions are retained for shareholder's approval, with the Council being asked to approve the local energy company's 3-Year Rolling Business Plan on an annual basis, to include a risk register and budget forecast. Operational matters are delegated to the company's board and its managing director.

To be able to enshrine Lancaster West Neighbourhood Team's approach to putting residents first within the company's DNA, all board reports apply the following Decision-Making Principles:

1. **Safety**: maximise resident and worker safety in the design, delivery and maintenance of the network

2. **Quality**: prioritise quality over price to ensure high-quality homes and a positive heat network experience

3. **Value for money**: provide heat that is more affordable than the alternatives

4. **Sustainability**: 100% renewable heating from first 'Heat On'

These principles act as a hierarchy. The local energy company does not move to later principles until the earlier ones are satisfied, as already happens with the Refurbishment Programme. The same decision-making principles underpin procurement of the DBOM Contract and D&B Contract that are discussed below.

5 Heat customers

Phase 1 of the Heat Network will serve:

- The Council-owned housing at the Estate,
- Kensington Aldridge Academy (the Academy), which is owned and operated independently of the Council;
- Kensington Leisure Centre (the Leisure Centre) which is owned by the Council but operated by a leasehold operator, currently Greenwich Leisure Limited (GLL);
- Baseline Studios (business units for SMEs) owned and managed by the Council.
- It may also serve some, if not all, of the small number of freehold homes on the Estate, subject to a decision by each freeholder as whether to connect.
- Heads of terms for Heat Supply Agreements have been approved by the Academy's Board of Governors, with similar heads of terms now being developed for Kensington Leisure Centre and Baseline Studios.

6 Project Team

The Council's project team (the "Project Team") for this Commercialisation Stage of the Heat Network comprises the following members:

- Project Sponsor: James Caspell, Neighbourhood Director, Lancaster West Neighbourhood Team
- Head of Strategic Programmes and Innovation, Lancaster West Neighbourhood Team: Shaun Haden
- Heat Network Programme Manager: Jeff Laidler
- Strategic project advisor: Michael King
- Procurement lead: Richard Long
- Resident engagement lead: Janet Hall
- Senior Heat Network Project Manager: Chris Kemp

- Technical - Stage 3 design for secondary & tertiary networks and Owner's Engineer for entire Phase 1 of Heat Network to start of operations: TACE
- Technical - Stage 3 design for primary network, ASHP 1, the Renewable Boiler Room and the Renewable Heat Store: Ramboll
- Commercial lead: Trevor Whittaker
- Financial lead: Mike Read, with financial modelling provided by David Ball
- Financial advisor: Tina Buchanan
- Legal advisors: Bevan Brittan
- Town planning advisor: Land Use Consultants

7 Design

Phase 1 has been designed to RIBA Stage 3 and is to be zero-carbon from 'Heat On' in 2024.

Ramboll and TACE have worked together collaboratively to produce the Stage 3 Reports - see elsewhere in the ITT pack. The allocation of their respective duties is summarised below:

- Ramboll have developed the technical design of the primary network, ASHP 1, the Renewable Heat Store and the Renewable Boiler Room to RIBA Stage 3.
- TACE are the M&E consultants for the Refurbishment Programme and have developed the design of secondary & tertiary networks to RIBA Stage 3. Going forward their services also include being Owner's Engineer for the construction and test & commissioning stage of the entire Phase 1 of the Heat Network.

The main heat source will be an Air Source Heat Pump (ASHP) located on the roof of the Council-owned Kensington Leisure Centre (the Leisure Centre), supported by an electric boiler and a thermal store on two other sites.

The existing Camelford Walk energy centre is to be refurbished to house the electric boiler. As there will be no combustion Its existing chimney stack will be removed.

A new structure will be constructed outside the Leisure Centre to house the thermal store, architecturally designed to create a positive and powerful statement of a zero-carbon future.

Electricity required to power the Heat Network will be sourced from 100% renewable sources, including on-site roof-mounted solar PV installed on residential blocks across the Estate.

8 Project stakeholders

Project stakeholders identified to date comprise:

1. Council / Lancaster West Neighbourhood Team (LWNT)
2. Residents
3. Refurbishment Programme's project team
4. Kensington Aldridge Academy

5. The Council's Property and Social Investment team, as landlord of Kensington Leisure Centre

6. Planning authority

7. Highways authority

8. UKPN, the local DNO for power

9. ESP Electrical, he IDNO for Kensington Leisure Centre

A key requirement of the Project is to undertake close liaison and engagement with the residents via the Heat Network's Project Team and the Heat Network Engagement Manager

9 Procurement strategy

Delivery of the Heat Network is being procured in 2 separate procurements:

1. A design, build, operate and maintenance (DBOM) contract for construction of the Primary Network, ASHP 1 plant room, the Renewable Heat Store, the Renewable Boiler Room and all external (underground) sections of the Secondary Networks – and operation and maintenance of the entire Phase 1 of the Heat Network. Whilst this contract is being procured by the Council the intention is that it will be awarded in the name of Notting Dale Heat Limited, the local energy company that is 100% owned by Kensington and Chelsea Council.
2. A design and build (D&B) contract to be awarded by the Council for design and construction of the Tertiary Networks and all internal (above ground) sections of the Secondary Networks.

Delivery of the D&B Contract will be managed by the Council as an integral part of its Refurbishment Programme for the Estate.

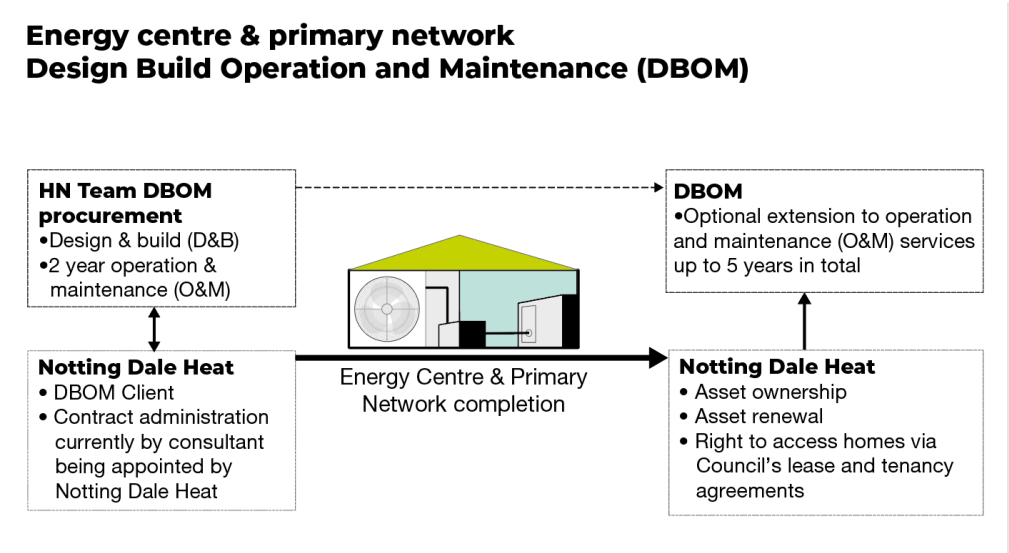
10 Allocation of asset ownership

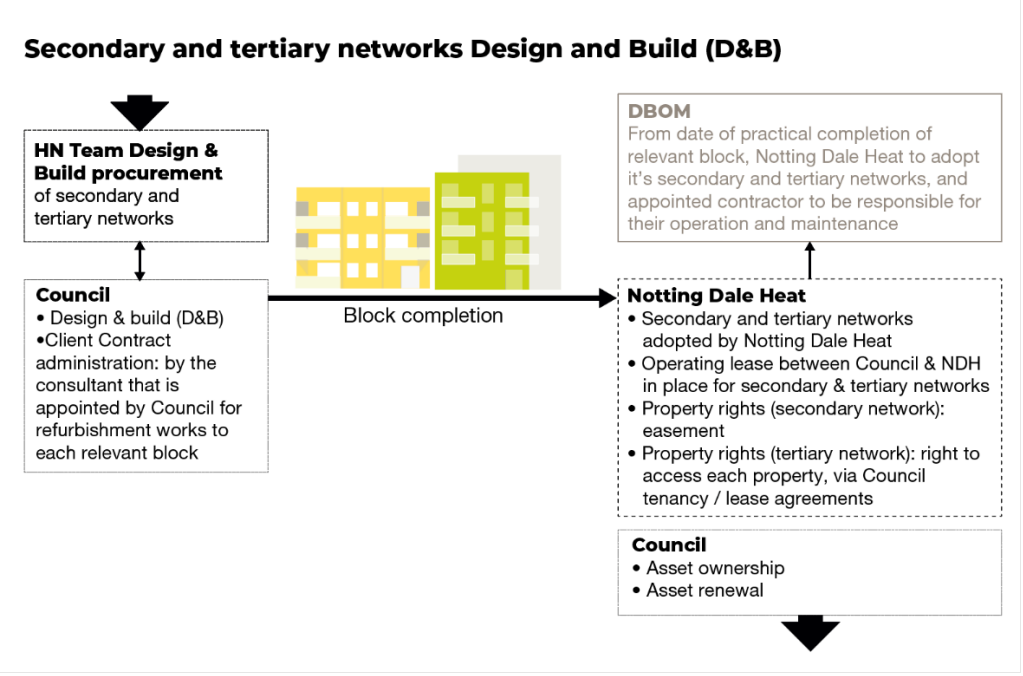
The Secondary Networks and Tertiary Networks are being funded by the Council as part of its Refurbishment Programme and these assets will remain in the ownership of the Council, which will be responsible for their asset renewal.

However, day-to-day maintenance and operation of the Secondary Networks and Tertiary Networks is to be the responsibility of Notting Dale Heat. This is so that the Heat Network can be controlled and operated as a holistic heat system, to ensure the provision of reliable heat to customers.

To ensure the design of the Secondary Networks and Tertiary Networks is compatible with that of the Primary Network and Energy Centres, the concept design and procurement of both is being led by the Heat Network's Project Team.

This allocation of responsibility between the Council and Notting Dale Heat is shown diagrammatically below:





11 Contract scopes

The scopes of these two main procurements are summarised below:

11.1 DBOM Contract

Design and Build

The Design and Build works for this contract package comprises:

1. The laying of a new Primary Network of around 1,200 metres within the Estate to connect the Energy Centres and Substations (see below). The Primary Network is to be laid mainly in paved areas in Council-ownership with exception of a (minor) road crossing for which highway authority permission is being sought by the Council prior to contract award.

2. Installation of 12 Substations (to which each Secondary Network will connect, see separate D&B Contract scope below). These Substations are sited externally to each property, with exception of those to the Academy and Leisure Centre which are to be installed within basement plant rooms. Each will include a bulk heat meter, valves (with remote operation) and heat exchangers.
3. Installation of the external (underground) pipework that forms part of the Secondary Network serving each residential block (the above ground lengths form part of the D&B Contract, see below). This will be mainly in paved areas, all within Council-ownership.
4. Installation of the Renewable Heat Store on an open site and ground level outside the Leisure Centre. This is to receive architectural design treatment for which detailed requirements will be made available during the procurement process.
5. Installation of the ASHP 1 plant room which, as well as the ASHP and ancillary equipment, will require fitting of required support steels to the Leisure Centre's roof and making good of the roof membrane.
6. Reconfiguration of the existing plant room within the basement of the Leisure Centre to accommodate a Substation connection to the Primary Network (as referred to above) and subsequent re-plumbing of the existing gas boilers in order that these may then be used by the Heat Network as a source of back-up heat (rather than continue to serve the Leisure Centre). The Leisure Centre will continue to use its gas CHP until end 2029, so its requirement for heat from the Heat Network during this initial period will be as a source of top-up heat. Thereafter it will require all its heat to be provided from the Heat Network. ESP Electrical are the IDNO for the electrical connection to the ASHP 1, the Leisure Centre Plant Room and the Renewable Heat Store.
7. Reconfiguration of an existing boiler room at Camelford Walk to form the Renewable Boiler Room, including removal of existing chimney stack; removal of the existing gas boilers; raising of the existing roof by approximately a metre; installation of an electric boiler and ancillary equipment; and installation of a new façade and internal fit-out for educational space. UKPN are the DNO for this electrical connection
8. Installation of a comprehensive controls system to connect with the Secondary & Tertiary Networks (see separate D&B contract procurement below).

Also, an important aspect of the above is that removal of the existing gas boilers at the Camelford Walk boiler room to enable the redevelopment of this boiler room to form the Renewable Boiler Room, will remove the existing source of heat to the following residential blocks:

1. Camelford Court
2. Camelford Walk
3. Clarendon Walk
4. Lower Clarendon Walk
5. Morland House
6. Talbot Grove House
7. Talbot Walk
8. Upper Camelford Walk
9. Upper Clarendon Walk

10. Upper Talbot Walk

It will therefore be necessary for the DBOM Contractor, on its removal of the above boilers, to provide a source of temporary heat to these residential blocks up to the date of practical completion of the DBOM works, at which point the Heat Network is to then provide their permanent heat source (subject to the actual delivery of the Refurbishment Programme).

Once the Heat Network has satisfactorily passed the testing and commissioning process, the DBOM contractor is to make permanent connection to the Leisure Centre, the Academy, Baseline Studios and Treadgold House together with the secondary networks of those other residential blocks whose refurbishment works have been completed, see the Refurbishment Programme timetable in Section 13.

The design and build requirements of the above are set out in greater detail in the Stage 3 Design documentation, see elsewhere. Bidders are to take into consideration ensuring the ability for the Heat Network to be expanded and/or additional heat loads within the Estate to be added in the future.

A firm requirement is for heat meters to be installed for which the data collected can accessed without financial cost and can be utilised by a minimum of three UK metering and billing providers, with the facility to connect to a separate prepayment unit if required.

The process to secure detailed planning permission for the above scope is underway, with intention that this will be secured by the Council prior to award of the DBOM Contract. A pre-application was submitted to the Council in August 2022.

Operations and Maintenance

In addition, the DBOM contract package will also include for operation and maintenance of the overall Heat Network. The O&M services required comprise:

1. Operation of a BMS control system, dashboard and helpdesk facility, under a comprehensive payment mechanism to ensure performance against KPIs. In so doing, to minimise the need for call outs through use of the smart control system to monitor plant performance, identify issues and make adaptions.
2. Provision of operations & maintenance services in respect to the ASHP 1 and ASHP 2 plant rooms; the Renewable Boiler Room; the Renewable Heat Store; the Leisure Centre plant room; the Primary Network (of approximately 1200m); the Primary Network (including the 12 Substations); the Secondary Networks; and the Tertiary Networks within each flat.

The above O&M requirements are set out in greater detail in the O&M Scope of Works document.

There is no mandatory requirement for provision of a metering & billing service as this is to either be self-delivered by Notting Dale Heat and/or separately procured. Nevertheless, a sub-option is being sought for the provision of the billing services.

The above O&M services are last for 2 years, with the option for Notting Dale Heat to extend these services for up to 5 years in total.

Details relating to Schedule 6 (Liquidated Damages) of the DBOM Contract and Clause 7 (the property text) of the O&M Schedule will be provided during the procurement process.

The CDM Principal Designer and Contract Administrator are in the process of being appointed.

11.2 D&B contract

The design and build works for this contract package comprises:

1. Installation of the internal (above ground) pipework that forms the Secondary Networks serving the residential blocks, including the heat interface unit (HIUs) that serve each flat, together with strip out and disposal as appropriate of the existing internal secondary networks. In many cases the HIUs are to be located within the dwellings due to shortage of space within the common areas.
2. Installation of the Tertiary Networks serving each flat comprising: thermostatic controls, radiators, valves and small diameter distribution pipework, together with strip out and disposal of the existing heating systems. Some elements of the Tertiary Networks (e.g. replacement of radiators) has already taken place in some flats under a Refurbishment Programme scheme focussed on void properties across the Estate, the scope of which will be clarified during the second tender stage. At this initial procurement stage, bidders are to tender of the basis of the archetypes provided in the Stage 3 Design document which sets out the different flat configurations and numbers of each.
3. On completion of the above works to each block, make permanent connection to the relevant Substation of the Heat Network, as soon as the latter has become operational, and undertake test & commissioning of that block.

The design and build requirements of the above are set out in greater detail in the Stage 3 Design documentation, see elsewhere. A firm requirement is for heat meters to be installed for which the data collected can accessed without financial cost and can be utilised by a minimum of three UK metering and billing providers, with the facility to connect to a separate prepayment unit if required.

In delivering the works, it is important that no Tertiary Network is be installed and connected to an existing secondary network, not least in order to prevent contamination of the water in the Heat Network. As a result, the Tertiary Networks are only to be installed where the new Secondary Networks are already in place and ready for connection.

In delivering the Tertiary Network works it is important that the D&B contractor minimises the duration in which each flat is disconnected from its existing heat supply before being connected to its new heat supply.

Completion of the works to each residential block is treated as a separate Section within the D&B Contract. However, there is then a KPI for satisfactory completion on time (i.e. within a "2 day" window) of the works to each dwelling within the KPI Schedule.

As identified within the Stage 3 Design, the D&B Contract package will require a great deal of close co-ordination not only with residents but also with the Council's refurbishment contractor for each block, who will be delivering the building and electrical works and so act as the main contractor. This main contractor will establish a timetable for the overall works to the block and give notice to the D&B Contractor of when the Secondary and Tertiary works to each flat are to be undertaken.

Residents are to remain in-situ throughout construction, except in exceptional circumstances, where a temporary decant to an empty flat on the Estate will be made, see here Refurbishment respite (wearew11.org).

In addition to the above, further items of work may be included within the D&B Contract for which prices are being sought for the following options (see the Pricing Schedule and the Specification for more detail):

1. MVHR
2. Boosted cold water
3. Sprinklers

As the D&B Contract works will require access being gained to individual flats occupied by residents there will be GDPR requirements that the D&B Contractor will need to meet. The detail of these is being developed and will be issued during the procurement process.

Similarly, an Access Protocol is being developed, to also be issued during the procurement process, under which, where the D&B Contractor having followed the Access Protocol has been unable to secure access to the relevant flat, this will be recognised as being an Access Failure Event and therefore not be taken into consideration when assessing whether a block has reached practical completion.

Liquidated Damages under the D&B Contract for late completion of each residential block, ie including completion of both its Tertiary Networks and above ground lengths in respect to its Secondary Network, will apply, for which further details will be provided during the procurement process.

The CDM Principal Designer for the D&B Contract is Derisk. The Contract Administrator for each of the blocks is yet to be appointed by the Council.

12. Heat Demand

Details of the expected heat demand from each residential block is shown below:

2. Energy Demand Assessment

The demands and subsequent phasing used to evaluate a CHP Hybrid scenario are the same as in Section 2 of the main *WP2 Design Report*. They are displayed in the table below.

Table 1: Summary of Annual Heating Demands Considered

Building/Cluster Name	Building/Cluster Type	Annual Heating Demand (kWh/yr)	Peak Heating Demand (kW)
Camborne Mews 1-12	Retrofit Residential	42,953	83
Camborne Mews 13-36	Retrofit Residential	78,455	128
Barandon, Testerton and Hurstway Walk	Retrofit Residential	1,711,352	1,194
Camelford Court 1-26	Retrofit Residential	134,069	144
Camelford and Upper Camelford Walk	Retrofit Residential	309,322	298
Upper and Lower Clarendon Walk	Retrofit Residential	447,885	401
Morland House 1-17	Retrofit Residential	97,513	102
Morland House 18-34	Retrofit Residential	98,902	102
Talbot Grove House 1-45	Retrofit Residential	315,045	219
Talbot and Upper Talbot Walk	Retrofit Residential	96,418	124
Treadgold	Retrofit Residential	149,488	222
Verity Close (Houses)	Retrofit Residential	190,075	181
Verity Close 8-25	Retrofit Residential	60,510	106
Verity Close 26-43	Retrofit Residential	51,405	106
Kensington Aldridge Academy	School	881,000	444
Kensington Leisure Centre	Leisure	1,830,000	695
Bomore Road	New Build Residential	130,522	181
Baseline Studios	Offices	283,192	191
North Kensington Resource Centre	Public/Community	14,616	8
LWE Community Centre	Public/Community	21,750	13

The homes at Verity Close, Treadgold House and Camborne Mews currently use individual gas combi boilers. The remaining residential blocks are connected to one of the two existing end-of-life heat networks.

Treadgold House is currently subject to a comprehensive refurbishment scheme being procured by the Council with support from EnergieSprong, which is due to be completed in 2023. As a result, this block is to have its own net-zero carbon heat source (ASHP 2), which will be designed and installed by United Living. However, the block will connect to the Heat Network once this goes live in summer 2024 as this will offer a more reliable heat supply. At this point, ASHP 2 will be retained as a source heat generation (albeit a small one) to the Heat Network, and its secondary and tertiary network will then be operated and maintained by the DBOM contractor.

Engagement yet is to take place with the 16 residential freeholders at Verity Close to ascertain whether they wish to connect to the Heat Network.

13. Heat Network Programme

Key dates for the remaining stages of Commercialisation and achieving practical completion of the construction of the Heat Network are given below.

13.1 DBOM Contract works

The DBOM Contract works, see Section 11.1, are to be delivered as a single phase and to reach practical completion, ie "Heat on" by 1 September 2024. At this date, the vast majority of heat loads are to have been connected, as below:

- All residential blocks, including Treadgold House, with the only exceptions being Camborne Mews, Verity Close and Bomore Road.
- Kensington Aldridge Academy
- Kensington Leisure Centre
- Baseline Studios

The intention is to connect Camborne Mews and Verity Close in April 2027, as these residents currently have individual gas combi boilers. This is subject to the residents here being happy to connect to the Heat Network based on the positive customer experience elsewhere on the Estate.

Bomore Road is to connect in late 2029, as it has a fairly new communal gas CHP system.

Notting Dale Heat will solely supply top-up heat to the Leisure Centre above that produced by its CHP until 2029, as the existing gas CHP system is fairly new. The Leisure Centre will then transition to being provided with all its heat demand from the Heat Network from late 2029.

These connection dates are summarised in the programme below

Residential block	Building type	HN connection date
Treadgold House	Residential	1 September 2024
Barandon, Testerton and Hurstway Walk	Residential	1 September 2024
Camelford Court	Residential	1 September 2024
Camelford and Upper Camelford Walk	Residential	1 September 2024
Upper and Lower Clarendon Walk	Residential	1 September 2024
Morland House	Residential	1 September 2024
Talbot Grove	Residential	1 September 2024
Talbot and Upper Talbot Walk	Residential	1 September 2024
Kensington Aldridge Academy	School	1 September 2024
Kensington Leisure Centre (top up heat)	Leisure Centre	1 September 2024
Baseline Studios	Business units	1 September 2024
Verity Close	Residential	1 April 2027
Camborne Mews	Residential	1 April 2027
Kensington Leisure Centre (full heat)	Leisure Centre	1 December 2029
Bomore Road	New build residential	1 December 2029

Should the Council's Refurbishment Programme be in delay and a block/s not have been refurbished in time for connection by the above "Heat on" date of 1 September 2024, then the DBOM contractor

will be required to continue to provide temporary heat to such block/s (on a cost-plus arrangement) until its/their refurbishment has been completed.

Bidders are made aware of two key programme constraints for the DBOM Contract works as described below:

1. The Council is constructing SUDS drainage schemes at the Estate as part of new landscaping works that it is procuring. Two of these SUDS (which form part of the Council's Lots 1 and 2 Public Realm Works) are relevant to routing of the Primary Network, as they will be installed at the West and East ends of Clarendon Walk. A specific requirement of the DBOM Contract is that the Primary Network avoids the areas of these SUDS (tbc). Also, to allow timely completion of the landscape works in these areas, the Primary Network is to be laid here, hydraulically tested and back-filled in advance of any other lengths of the Primary Network so as to be complete as soon as reasonably possible.
2. There is a GLA Local Energy Company grant funding requirement for the ASHP to be installed within the Air Source Heat Pump 1 plant room to be purchased by 31 July 2023.

13.2 DBOM Contract works

The D&B Contract works to each block, see Section 11.2, are to be installed as a coordinated part of that block's refurbishment under the Council's Refurbishment Programme for the Estate.

The current timetable for the Refurbishment Programme, relevant to the D&B contract works and building fabric improvements to each residential block, is shown below.

Residential block	Start date	Completion date
Treadgold House	1 February 2023	1 November 2023
Barandon, Testerton and Hurstway Walk	1 June 2023	1 March 2024
Camelford Court	1 June 2023	1 March 2024
Camelford and Upper Camelford Walk	1 June 2023	1 March 2024
Morland House	1 June 2023	1 March 2024
Talbot Grove	1 June 2023	1 March 2024
Baseline Studios	1 June 2023	1 March 2024
Upper and Lower Clarendon Walk	1 November 2023	1 August 2024
Talbot and Upper Talbot Walk	1 November 2023	1 August 2024
Verity Close	1 July 2026	1 April 2027
Camborne Mews	1 July 2026	1 April 2027

The above programme may be subject to change as it becomes finalised through resident co-design, contractor procurement and finalisation of an overall detailed construction logistics plan for works at the Estate.

Based on the above programme, the D&B Contract period is for the 4 years from 1st April 2023 to 1st April 2027. Flexibility in delivering these works within this 4-year period is key, with at least 4 months' notice of work commencement to be given to the D&B Contractor in respect to each block.

The D&B Contract may be extended if mutually agreed for up to a further 2 years, to reflect any changes in the Refurbishment Programme and/or Phase 2.

14.Social Value and Sustainability

14.1Social Value

Social Value is defined as the additional social, economic and environmental benefits obtained from public commercial contracts as codified in the Public Services (Social Value) Act 2012.

For the Lancaster West Estate this means providing tangible and measurable benefits to residents through the provision of cash or in-kind contributions to activities, projects and programmes that align with the Council's Community Development Strategy and Sustainability Strategy.

Thematic priorities of the Community Development Strategy:

- Maximising financial and career opportunities
- Health and wellbeing
- Sustainability, Garden Estate and Greener Neighbourhood
- Connected community and improved levels of equality

Thematic priorities of the Sustainability Strategy:

- Making homes warm, comfortable and energy efficient
- Switching the energy we use to clean and green suppliers
- Creating a garden estate with a thriving environment
- Reducing waste and increasing recycling
- Supporting residents to make sustainable lifestyle choices and reducing the carbon footprint of our service

As Social Value is a scored element in the ITT's Quality Questions, the following documents are included within the procurement pack to provide background information to Bidders:

- ISIT 2B, Social Value Implementation Plan
- ISIT 2C, Social Value Information for Tenderers
- ISIT 2D, Social Value Method Statement

14.2 Sustainability

Sustainability means 'meeting the needs of the present without compromising the ability of future generations to meet their own needs'.

The Council's vision for the Estate is "to become the UK's biggest eco-neighbourhood"; in part through becoming a carbon-neutral estate by 2030. To drive achievement of this objective, 5 Sustainability Thematic Priorities for the Estate have been set as referred to within the Social Value section above.

Delivering a 100% renewable and zero-carbon heat network is a key element to achieving these objectives. The procurement process is seeking a DBOM Contractor and D&B Contractor who share our Sustainability Vision by being zero-carbon in both Construction and Operations, with direct action to:

- Decarbonisation: measure, manage and reduce embodied carbon during construction and operations.
- Resources and waste: put circular economy principles at the heart of the new heat network, through three specific stages:
    - Dismantling the two existing heat networks, noting that we are not removing anything below ground.
    - Designing and building the new energy centres and primary heat network, so that they can be more easily dismantled and adapted over their lifetime, putting in place a clear hierarchy to prioritise the retention of existing structures above demolition, where this is the more sustainable and appropriate approach.
    - Operation and maintenance of the new heat network
- Active travel: seek active, efficient and sustainable transport modes to be used to minimise the environmental impact of constructing and operating the new heat network.

At Stage 1 of the procurement process process, bidders are required to:

1. Refer to Section 208 to 265 of the National TOMs Framework on 'Environment'
2. State appropriate KPIs that best fit with our vision and your corporate sustainability objectives, to maximise ease of measurement and added value.

At Stage 2, the above approach will be subject to review, development and negotiation to ensure full strategic alignment and to optimise sustainability benefits. KPIs will be developed during the second tender stage to put in place metrics to ensure delivery of the successful bidders' sustainability proposals in respect to both the DBOM Contract and D&B Contract.

15.Refurbishment Programme

15.1 Description

As introduced in Section 2 above, the Council is undertaking a Refurbishment Programme at the Estate to comprehensively refurbish its social housing and external landscaping. The Refurbishment Programme is a key priority detailed in the Council Plan.

A feasibility study was undertaken by the Carbon Trust, EnergieSprong and Turner & Townsend, via the GLA Retrofit Accelerator - Homes Programme, which concluded in May 2020 and outlined a "fabric first" approach for the scheme.

The adopted fabric first approach has set an EnerPhit energy performance target whereby the heating and cooling demand of each home must not exceed 50kWh/m2/year and may go as low as 25kWh/m2/yr. The Heat Network has been designed to align with these values.

The extensive external refurbishment programme will replace windows, doors, and upgrade internal and/or external insulation and heating systems. Alongside this an internal refurbishment

programme is currently underway, replacing old kitchens and bathrooms in flats as they become vacant, but without installing HIUs or new secondary networks.

15.2 Design team

Three multi-disciplinary teams have been appointed by the Council for the refurbishment of individual residential blocks, which are divided into 6 Lots on the Estate as below:

- ECD Architects – Morland House, Talbot Grove, Treadgold and Verity (Lots 3,4 and6)
- Penoyre & Prasad – Camborne and East Side (Lots 2 and 5)
- Tbc – The "Walkways" (Lot 1)

TACE are the technical consultants leading on M&E design for the entire Refurbishment Programme.

15.3Residential "Lots"

Details of the blocks which are being refurbished are:

- Lot 1 - The "Walkways": ie Barandon Walk, Testerton Walk, and Hurstway Walk (367 units)
- Lot 2 - East Side: Camelford Walk, Camelford Court, Clarendon Walk, and Talbot Walk (207 units)
- Lot 3 - Morland House and Talbot Grove House (79 units)
- Lot 4 - Treadgold House (38 units)
- Lot 5 - Camborne Mews (36 units)
- Lot 6 - Verity Close (68 units)

15.4 Resident co-design

Resident engagement and co-design are at the heart of both the Refurbishment Programme and Heat Network development.

The refurbishment and resident co-design programme started with an Ideas Day in 2018. Since then, engagement with residents has set out the Top Ten Priorities for each block (available here: https://www.wearew11.org/en/page/52141), and parameters for procurement processes.

Using the 80/20 quality and price ratio set by residents, an architect-led multidisciplinary design team was appointed to each lot by resident selection. After 2 phases of engagement, the co-design of each block is now entering its final pre-planning RIBA Stage 3 design stage. Final design choices are to be made by residents during summer 2022, in advance of planning applications being made later prior to the end of 2022.

Hundreds of residents, drawn from every block on the Estate, have engaged in the process to choose the refurbishment priorities for their blocks and homes. In some blocks more than 80% of residents have participated to date.

Resident co-design of the Heat Network began in February 2020. Online webinars, postal and digital surveys were used to identify the resident's priorities for heating, better controls, affordability, and sustainability. The Heat Network co-design programme has dove-tailed with the Refurbishment Programme's timetable, enabling residents to make choices and provide

feedback on detailed proposals including energy sources, heating control systems, heating payment systems, as well as the energy centre locations and design ideas.

Resident co-design of the Heat Network is resulting in a local energy company and heating service co-produced by residents. This is resulting in an exemplar project for Kensington and Chelsea Council, with transition from co-design into long-term management of a new service area. The outcomes, jointly sought by residents and the Council, include providing an excellent customer experience.

This excellence is being sought not only in the technical proficiency of the system, but also its management from construction to operations, and in all contractors' showing respect and professionalism when engaging with residents, and other stakeholders.

By working with residents, regulators, and future appointed suppliers Notting Dale Heat is seeking to put customers first by implementing a robust 7-point strategy:

1. Customer Charter: provides a guarantee of heat quality and customer;
2. Vulnerable support: extra help with heating and hot water is available for anyone who is in a vulnerable situation;
3. Resident Price Promise: until 2030, residents will pay the cheaper energy price, either gas or renewable heating costs;
4. The Heat Trust: to act as an independent Customer Champion on behalf of customers;
5. Ofgem regulation: from 2024, Ofgem will regulate heat networks. This will give quality and price protection, similar to gas and electricity today;
6. Board structure: its local energy company board that is making management decisions for the Heat Network will include heat network customers who live on the Estate. The Council's Shareholder Committee is providing additional checks to ensure an excellent customer experience; and
7. Notting Dale Heat is to deliver excellent customer service, with at least 80% customer service satisfaction.

16. Construction Logistics Strategy

Because of the significant amount of construction related work that is taking place at the Estate, the Client has developed a Construction Logistics Strategy (see ISIT – 4A).

In response to this strategy, Bidders are required in the Supplier Qualification and Tender Questions to submit their own Construction Logistics Plan for evaluation.

17. Surveys

The following survey information is being made available:

- See ISIT – 3, Pre-Construction Information, Health and Safety.

18.Document Schedule

Please refer to document schedule below. This is also provided as an Excel file within the tender pack.

Location	File Name
Main Folder	
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	Bona Fide Tendering and Anti Collusion Certificate - FINAL.doc
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	Form of tender - D&B - FINAL.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	H&S PCI - DHNW Secondary & Tertiary Works.pdf
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 1A, Invitation to Submit Initial Tender (ISIT) - FINAL.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 1B, Quality Criteria Questions for Initial Tenders - LIVE.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 1D KPI Schedule LIVE.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 2A Project Description and Objectives LIVE.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 2C, Social Value Information for Tenderers - FINAL.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 2D, Social Value Method Statement - FINAL.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 3B. H&S Tender Questions - FINAL.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT - 4A Construction Logistics Strategy FINAL.docx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	ISIT -1C - Pricing Document - FINAL.xlsx
Phase 1 - Lanc. West/Commercialisation/Procurement/D&B (secondary and tertiary) Tender Pack	Notting Dale HN D&B Contract (Secondary & Tertiary) (Update 30.09.22) - c.DOCX
6A, Introduction	
ISIT - 6, Stage 3 Design LIVE/6A, Introduction	01 - Introduction to Stage 3 Tender District Heat Network Report Rev.T3.pdf
ISIT - 6, Stage 3 Design LIVE/6A, Introduction	02 - Organogram.pdf
ISIT - 6, Stage 3 Design LIVE/6A, Introduction	03 - Notting Dale Heat Network – Technical Options Decision Tree (Rev.04).pdf
6B, Part 1 - TACE Stage 3 Report	
ISIT - 6, Stage 3 Design LIVE/6B, Part 1 - TACE Stage 3 Report	PA1500 Stage 3 Report - Rev T3.pdf
6D, Part 3 - Supplementary Information	
ISIT - 6, Stage 3 Design LIVE/6D, Part 3 - Supplementary Information/1 - GPRS	30220BWUG-0103 - Sitewide Utilities & Drainage Survey.pdf
ISIT - 6, Stage 3 Design LIVE/6D, Part 3 - Supplementary Information/2 - Workmanship Spec	TAC-XX-XX-SP-ME-2 - Workmanship Specification Rev T1

Part 2 - Ramboll Report	
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report	Notting Dale Design Risk Assessment_rev A.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report	Notting Dale Updated Design Report.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix A, Supporting Information	Notting Dale DHN Building Data Collection.xlsx
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix A, Supporting Information	Notting Dale Site Visit Notes 01 - Nov 2020.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix A, Supporting Information	Notting Dale Site Visit Notes 02 - Dec 2020.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	Notting Dale Outline Commissioning Strategy.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	Notting Dale Outline Metering Strategy.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	Option1- Camelford Court.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	Option1- Leisure Centre.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	Option1-Overall View.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-LAYOUT-001 Notting Dale EC Location Option 1.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-LAYOUT-003 Leisure Centre Roof & Plantroom Layout.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-LAYOUT-004 Camelford Court Plantroom Option 1 Layout.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-LAYOUT-005 Camelford Court Plantroom Option 2 Layout.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-Modelling-001 Updated Enegy Model.epp
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-SCHEM-001 EC Option 1 Leisure Centre Schematic.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix B, Energy Centre Deliverables	RBKC-SCHEM-002 EC Option 1 Camelford Court Schematic.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix C, Network Deliverables	Differential Pressue.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix C, Network Deliverables	Notting Dale DHN_Existing Utilities Pinch points 1of2.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix C, Network Deliverables	Notting Dale DHN_Existing Utilities Pinch points 2of2.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix C, Network Deliverables	Notting Dale Heat Network Map.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix C, Network Deliverables	RBKC-NETWORK-001 Site Wide Network Layout P2.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix C, Network Deliverables	TYPICAL TRENCH DETAIL-SINGLE PIPES-A1.pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix D, Design Guide Lite	Notting Dale HN - Design Guide (Lite).pdf
ISIT - 6, Stage 3 Design LIVE/Part 2 - Ramboll Report/Appendix E, Leisure Centre ASHP Structural Fea	Notting Dale - ASHP Structural Feasibility Report 060622.pdf

6E, Part 4 - Drawings	
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings	PA1500 Mech Issue Sheet.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/00 Sitewide	LWE-TCE-XX-XX-DR-M-36001 Rev P1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/00 Sitewide	LWWW-TAC-XX-XX-DR-M-50012 Rev T3.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/00 Sitewide	PA1500-TCE-XX-XX-DR-M-90001 Rev P2.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWBW-TAC-XX-00-DR-M-57001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWBW-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWBW-TAC-XX-XX-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWBW-TAC-XX-XX-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWHW-TAC-XX-00-DR-M-57002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWHW-TAC-XX-00-DR-M-57003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWHW-TAC-XX-00-DR-M-57004 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWHW-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWHW-TAC-XX-XX-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWHW-TAC-XX-XX-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWTW-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWTW-TAC-XX-XX-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWTW-TAC-XX-XX-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50011 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50012 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50013 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50014 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50015 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50016 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50017 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50018 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways	LWWW-TAC-XX-00-DR-M-50019 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways/Riser Options	LWBW-TAC-XX-XX-DR-M-80001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways/Riser Options	LWBW-TAC-XX-XX-DR-M-80002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways/Riser Options	LWHW-TAC-XX-DR-ME-90001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways/Riser Options	LWHW-TAC-XX-DR-ME-90002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways/Riser Options	LWHW-TAC-XX-DR-ME-90003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/01 Walkways/Riser Options	LWHW-TAC-XX-DR-ME-90004 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-00-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-00-DR-M-560002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-01-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-01-DR-M-560002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-560011 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-90002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-90005 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-90006 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-90012 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-90015 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Court	LWCC-TAC-XX-XX-DR-M-90016 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-00-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-00-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-01-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-01-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-02-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-02-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-03-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-03-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-04-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-04-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-B1-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-B1-DR-M-56002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Camelford Walk	LWCW-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-00-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-00-DR-M-560003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-01-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-01-DR-M-560003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-02-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-02-DR-M-560003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-03-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-03-DR-M-560003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-04-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-04-DR-M-560003 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-B1-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-B1-DR-M-560003 Rev T1 .pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-XX-DR-M-560011 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-XX-DR-M-90002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-XX-DR-M-90004 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCD-TAC-XX-XX-DR-M-90012 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Clarendon Walk	LWCL-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-00-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-01-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-02-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-03-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-B1-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-XX-DR-M-560011 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-XX-DR-M-90001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-XX-DR-M-90002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-XX-DR-M-90011 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/02 Talbot Walk	LWTW-TAC-XX-XX-DR-M-90012 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-00-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-01-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-02-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-36001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-50001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-50002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-56001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-57011 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-80001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Morland House	LWMH-TAC-XX-XX-DR-M-80002 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Talbot Grove House	LWTH-TAC-XX-00-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Talbot Grove House	LWTH-TAC-XX-01-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Talbot Grove House	LWTH-TAC-XX-02-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/03 Talbot Grove House	LWTH-TAC-XX-03-DR-M-560001 Rev T1.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/05 Cambourne Mews	LWCB-TACE-XX-01-DR-M-800011 Rev P01.pdf
ISIT - 6, Stage 3 Design LIVE/6E, Part 4 - Drawings/05 Cambourne Mews	LWCB-TACE-XX-02-DR-M-800012 Rev P01.pdf