# VITAL ENERGI UTILITIES LIMITED

## Manchester Civic Quarter Heat Network (CQHN)

## Energy Centre Perimeter Protection

## Design and Access Statement

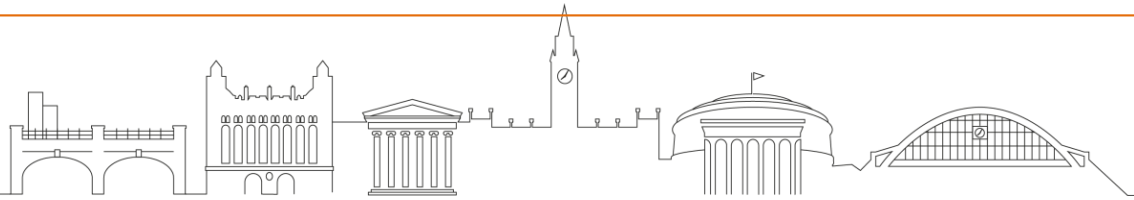
## Date: 8th January 2020

## Document Reference: 50467-VE-EC-XX-RP-M-5608

## Issue No: P0.1

| | | | | |
|---|---|---|---|---|
| Issued By | Robert Greenwood | | Date | 08/01/2020 |
| Checked By | Andrew Crawford (BGH) | | Date | 08/01/2020 |
| Approved By | Jack Haw (Turley) | | Date | 08/01/2020 |





| Revision History | | | | | | |
|---|---|---|---|---|---|---|
| **Revision** | **Date** | **Page(s) Affected** | **Description** | **Produced By** | **Checked By** | **Approved By** |
| P0.1 | 08/01/2020 | All | First Issue for Information | RG | AC | JH |

## TABLE OF CONTENTS


TABLE OF CONTENTS ..... 2

1. Introduction ..... 3

2. Background to the Project ..... 3

3. Design Description ..... 4

4. Access ..... 4

6.1 Manchester Central Carpark ..... 4

6.2 MCQHN Energy Centre ..... 4

5. Site Visit with MCC Conservation Team ..... 4

Appendix A – Drawings ..... 5

## 1. Introduction

This Design and Access statement serves to provide information in sufficient detail for the intended perimeter protection to the Manchester City Council (MCC) Civic Quarter Heat Network (CQHN) project Energy Centre Site, in relation to infill panels in connection with the Manchester Central Convention Complex.

The information provided in this report is specific to the Manchester Central in order to clearly explain the work content and any impact on the Grade II* listed areas of the building.

This document has been prepared in accordance with the requirements of Circular 01/06 and the CABE Guidance "Design and Access Statements – How to Read, Write and Use Them.

It should be noted that the proposed works which are located within the grade II* listed building include the basement car park only.

## 2. Background to the Project

The CQHN project is part of the Greater Manchester (GM) heat network programme, which has identified a pipeline of heat network opportunities across the ten Greater Manchester authorities.

Manchester – A Certain Future (MACF) is the city's climate change action plan, setting out the vision and commitment for Manchester to become a leading low carbon city by 2020. MACF recognises that low-carbon decentralised energy networks will play a key role in the city meeting its 41% carbon reduction target by 2020 (from a 2005 baseline), and they will help to ensure the city's energy supply is more resilient.

MCC's contribution to MACF includes the commitment for MCC to deliver heat networks. The Civic Quarter contains a number of key MCC-owned buildings, and the Authority is committed to supplying them with low-carbon energy as well as demonstrating leadership to others in the city to do the same.

The CQHN is a network that is located in the Civic Quarter area of the city centre. The heat network in this phase of work is intended to serve the following core buildings in the Civic Quarter: Town Hall Extension and Central Library, Midland Hotel, Manchester Central (the proposed location for the energy centre), Bridgewater Hall, Manchester Art Gallery, Heron House and Number One St Peter's Square. The initial phase of works also includes the supply of electricity to Manchester Central, Town Hall Extension and Central Library, Bridgewater Hall and the Midland Hotel.

## 3. Design Description

The Manchester Central Convention Centre perimeter protection involves the installation of infill panels to the existing Manchester Central basement and sub basement carpark arches. The arches form a perimeter to the proposed energy centre site.

The infill panels will be installed in order to provide protection against un-authorised access from the existing Manchester Central car park to the proposed New MCQHN Energy Centre.

The existing arches consist of original masonary which eminates into the external façade of Manchester Central basement and sub basement carparks. The original features have been added to over time in the form of modern concrete and steel vehicle barriers. The openings themselves serve a practical function in providing ventilation openings to the existing car park.

The proposed infill panels will consist of three recessed, open mesh (to maintain the existing ventilation function) infill panels supported by galvanised steel posts. Posts secured at the base and head with drilled resin anchor fixings into the existing concrete vehicle barrier and masonry. All steelwork will finished in polyester powder coating (PPC) to RAL 7016 Anthracite colour to compliment the proposed energy centre installations.

## 4. Access

### 6.1 Manchester Central Carpark

The access to Manchester central carpark vehicle and pedestrian entrances and exits are unaffected by the works.

### 6.2 MCQHN Energy Centre

The access to MCQHN Energy Centre vehicle and pedestrian entrances and exits are unaffected by the works.

## 5. Site Visit with MCC Conservation Team

MCC was shown the the intent of the proposed infill panels and impact of the proposed installation on the historic elements.

Feedback was that the infill panels should not be protruding from the outer face of the archway. The infill panels have therefore been recessed as far as practicable into the car park side of the arch.

## Appendix A – Drawings

| Drawing No. | Title |
|---|---|
| 2192.02.301 P4 Existing | MCQHN - MANCHESTER ENERGY CENTRE EXISTING GROUND FLOOR PLAN |
| 2192.02.302 Proposed | MCQHN - MANCHESTER ENERGY CENTRE PROPOSED GROUND FLOOR PLAN |
| 2192.02.309 | MANCHESTER CEF CQHN CAR PARK ARCHES - PROPOSED GROUND FLOOR PLAN |
| 50467-BGH-EC-ZZ-DR-A-307 | MANCHESTER CEF CQHN - CAR PARK ARCHES EXISTING PLAN & ELEVATION |
| 50467-BGH-EC-ZZ-DR-A-308 | MANCHESTER CEF CQHN - CAR PARK ARCHES PROPOSED PLAN & ELEVATION |