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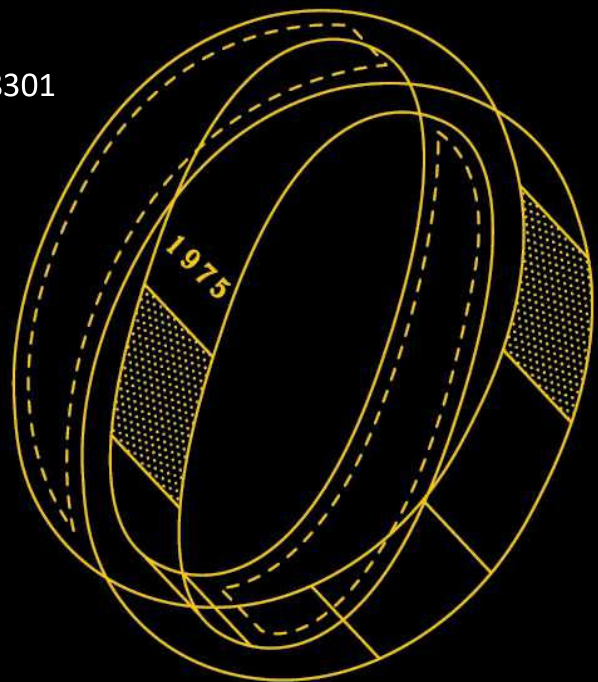
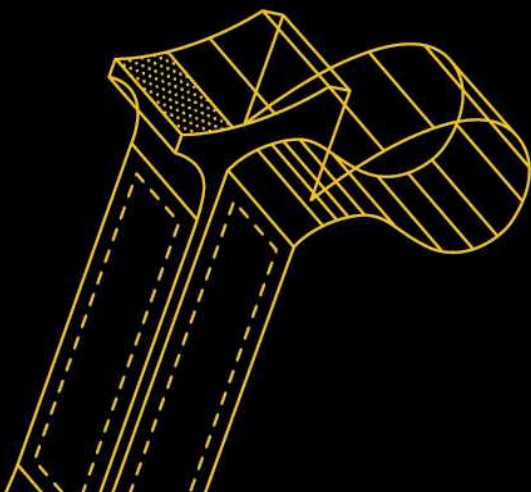
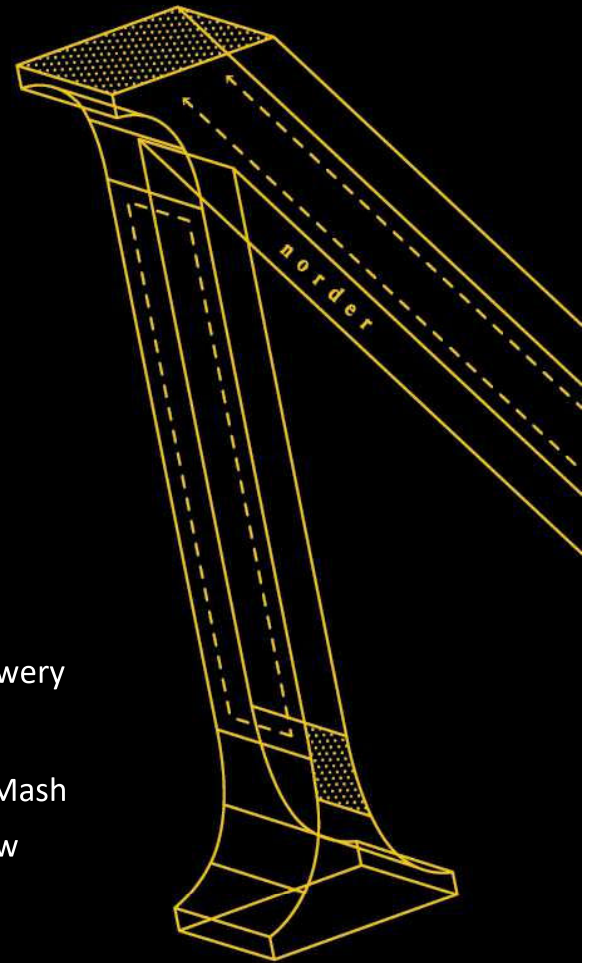
Engineers. Architects. Innovators.

Client: Heineken UK – Manchester Brewery

Project Title: Proposed Replacement of 2no Mash
Conversion Vessels and 1no New
Cereal Cooker

Document Title: Construction Management Plan

Document No.: 9062-NDA-XX-XX-SP-A-8301



Document Control

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1 Introduction

This Construction Management Plan has been prepared to discharge the pre-commencement condition 4 on Planning Decision Notice 139675/FO/2024 issued on 24th May 2024.

The Condition stipulates:

Prior to the commencement of development, a construction management plan outlining working practices shall be submitted to and approved in writing by the City Council as Local Planning authority, which for the avoidance of doubt shall include as a minimum:

- i. Measures to control noise and vibration;*
- ii. Dust suppression measures;*
- iii. Compound Locations where relevant;*
- iv. Details of an emergency contact telephone number;*
- v. A community consultation plan;*
- vi. Sheeting of construction vehicles; and*
- vii. Details of installation and effect on highways including temporary closures and traffic management.*

The development shall only be conducted in accordance with the approved Construction management Plan.

2 Working Practices

i. Measures to control noise and vibration

NJS safety will monitor all noise and vibration on site and consult with the noise and vibration assessment chart on the HSE website.

Before any equipment that generates a risk of vibration, HAV Syndrome a self assessment form will be completed by the operative and kept in the company health and safety file. In addition job rotation should be considered when using vibrating power tools to reduce the overall exposure time and to ensure that an adequate amount of rest time between the use of the tools has been given. All works which creates high noise levels of 80 decibels or above must be risk assessed accordingly. Hearing protection must be worn when noise levels reach 85 decibels. There are areas within the brewery which require mandatory hearing protection, persons must not enter these areas unless they are wearing hearing protection.

Noise from the projects is restricted by the council to the following hours:-

Monday to Friday - 7.30am to 6pm

Saturday - 8.30am to 2pm

Sundays & Bank Holidays - No noisy work should be done

A crane is required for removal of the 2no. existing mash conversion vessels and the subsequent installation of the 2no. new replacement mash conversion vessels and new cereal cooker. Formal consent from Manchester City Council is pending to stand the crane on Moss Lane East, however, the highways department will not agree to a road closure during weekdays which will impact weekend working hours for works inside the brewery and periods of external works with the cranes which in turn will affect the weekend noise levels.

It is anticipated that the vessel removal/installation works will be carried out over three weekends – please refer to Section vii for specific dates.

On each of the three weekends, work will involve crane rigging on Friday nights, and intermittent dismantling and tank positioning on Saturday and Sunday, with crane de-rigging on Sunday nights followed by road reopening on Monday morning.

Over each of the three weekends, some noise can be expected from the following operations as follows:

Fridays nights after 1800 HRS – 6 hours – crane rigging.

Saturday 0700 HRS – 1900 HRS – dismantle works / new tank positioning. It will be short periods of time, but difficult to give exact times at present.

Sunday 0700 HRS – 1900 HRS – dismantle works / new tank positioning. Short periods of time but difficult to give exact times at present.

Sunday after 1900 HRS – 6 hours - crane de-rigging.

Where possible, noisy work (not including that associated with the rig and de-rig of the crane) will be limited to the following hours:-

Friday night – 1900 HRS to 2300 HRS (No noisy work after 2300 HRS)

Saturday – After 0800 HRS

Sunday – After 1000 HRS

Sunday night 1900 HRS to 2300 HRS (No noisy work after 2300 HRS)

Crane de-rigging and works to complete by Monday morning at 0600 HRS ready for road re-opening.

The Contractor will notify Manchester City Council Environmental Protection team of the date when work will take place, no less than 10 working days before work starts.

Any environmental controls / mitigation that are required to reduce noise impact on nearby sensitive receptors shall be in place throughout the period of the works.

ii. Dust Suppression Measures

Construction dust is not just a nuisance; it can seriously damage your health and some types can eventually even kill. Regularly breathing these dusts over a long time can therefore cause life-changing lung diseases. silica dust – created when working on silica containing materials like concrete, mortar and sandstone (also known as respirable crystalline silica or RCS) Must be controlled by suitable means and stated on the Risk Assessments and method statements (RAMS).

Product Dust is controlled on site via central and/or local extraction but still requires the use of a respirator.

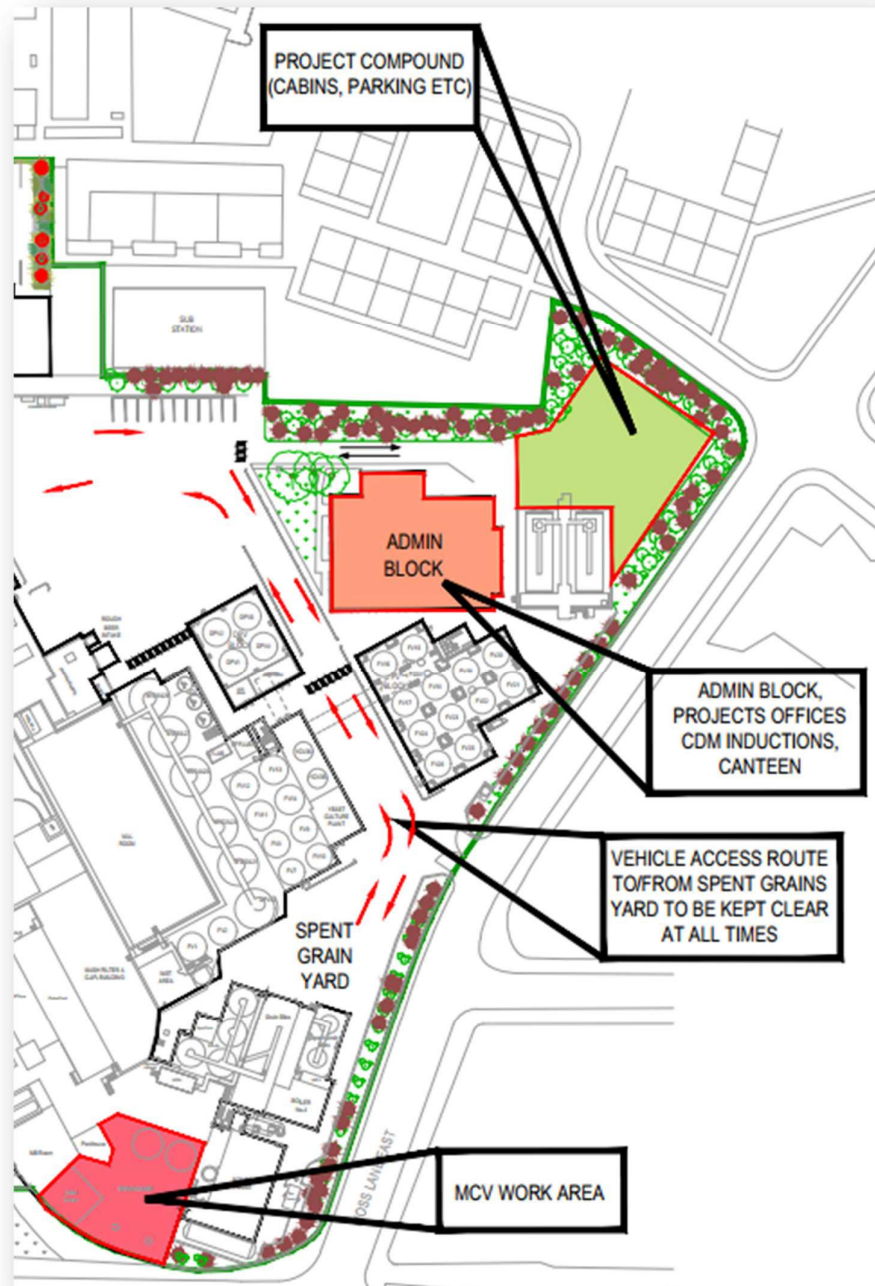
No dust is anticipated outside the boundary of the brewery. Some dust will be generated from internal civils works for roof removal etc.

General good practice procedures to minimise dust shall be undertaken on site, including the following:-

- Contain your space. Isolating your work area will help keep dust confined to just the area you're working in
- Good housekeeping – cleaning up at the end of each day
- Seal off ducts with dust barriers
- Provide misting water sprays sufficient to reduce airborne dusting from demolition work
- Avoid dust-generating work on high wind days.

iii. Compound Locations

On the following page is an extract from the Traffic Management Plan which indicates the proposed location of the site compound for this project. The Traffic Management Plan for the site is included in Appendix A.



iv. Emergency Contact Details

The construction site is a secure site within the Heineken site which has a 24 hour on site security team. The emergency contact number for the site contractor will be displayed for the duration of the works within the Heineken site visible to the Heineken Security Team in the event of an issue outside of the contractor construction hours.

The Heineken Site contact for these works is :-

Dave Bateson

07933429454

Email DABA@niras.com

v. Community Consultation Plan

A presentation was given by Heineken to the local community at the Aquarius Centre, Hulme on 25th June 2024. A copy of the presentation is included in Appendix B. Heineken have advised that the presentation was received well by the local community.

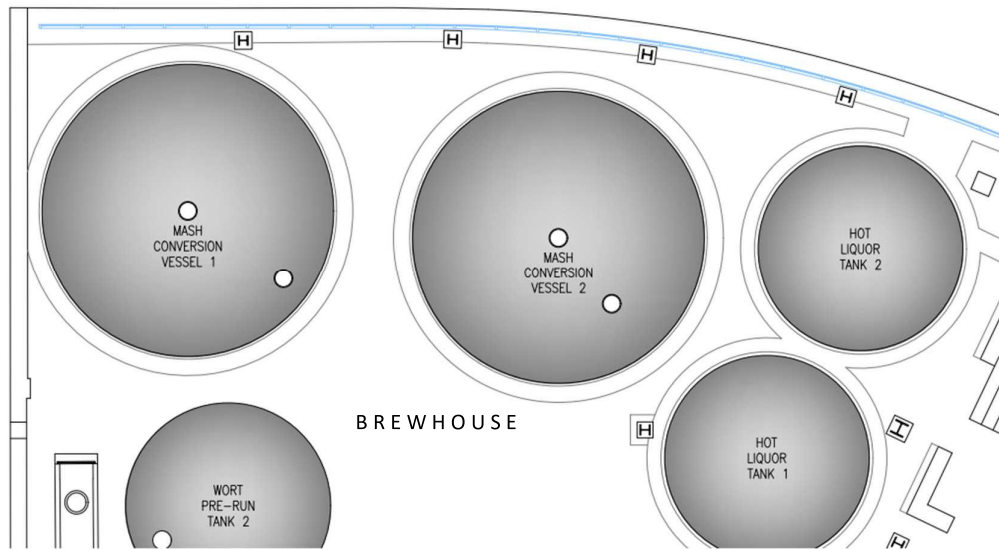
A letter has also been circulated to local residents informing them of the upcoming works and proposed road closures. A copy of the letter is included in Appendix C.

vi. Sheeting of construction vehicles

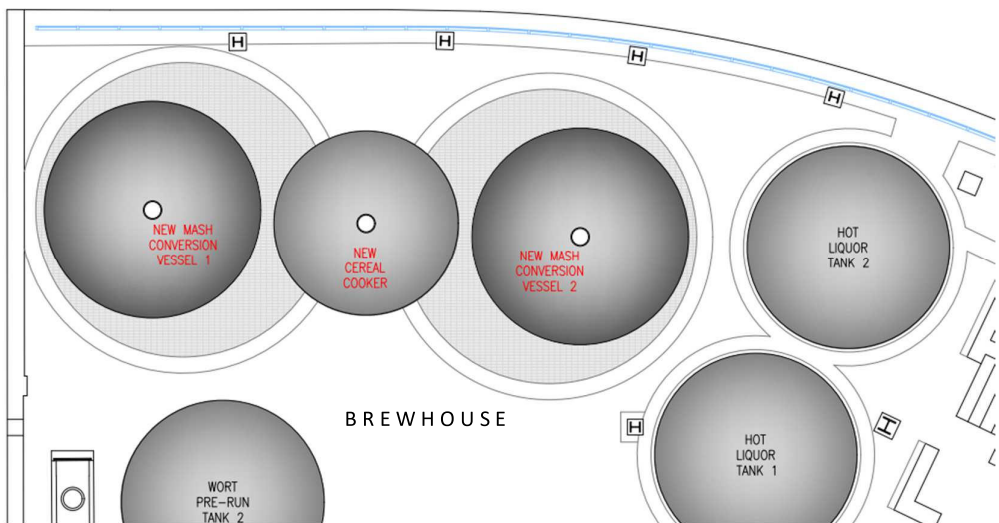
The sheeting of construction vehicles is something that will be undertaken mechanically/automated where required. It is not anticipated there will be many vehicles for spoil or rubble which may require this consideration. Any tipper vehicles from the project will be sheeted prior to leaving site.

vii. Details of installation and effect on highways

The three new vessels – 2no. new replacement mash conversion vessels and 1no. cereal cooker will occupy the space within the Brewhouse where the existing mash conversion vessels sit.



Existing Layout



Proposed Layout

The existing flat roof to the Brewhouse will be removed in part and the existing MCV1 will be lifted out whole via a crane sat on Moss Lane East. The following day the new MCV1 will be lowered into the Brewhouse via the same crane and a temporary roof covering installed to the building. These works will require a temporary closure of Moss Lane East for a two-day period over a weekend as outlined in more detail on the following page.

The same process will be undertaken for the removal of the existing MCV2 and installation of the new MCV2 vessel.

Finally, the new Cereal Cooker will be installed the week after the MCV2 installation. Once all the new vessels have been installed the removed flat roof section will be reinstated.

The existing screen on the roof of the Brewhouse will be removed temporarily for the duration of the works and reinstalled once the new roof has been completed.

A crane is required to lift the 2no. existing mash conversion vessels out of the existing Brewhouse and to lift the 2no. new MCV's and new cereal cooker into the existing brewhouse through the roof and a road closure application is pending approval to close Moss Lane East over six separate weekends in January/February 2025 as stated below:-

Period 1 **Friday 24th January 2025@1800 HRS to Monday 27th January 2025@0600 HRS**

Period 2 **Friday 31st January 2025@1800 HRS to Monday 3rd February 2025@0600 HRS**

Period 3 **Friday 7th February 2025@1800 HRS to Monday 10th February 2025@0600 HRS**

Period 4 **Friday 14th February 2025@1800 HRS to Monday 17th February 2025@0600 HRS**

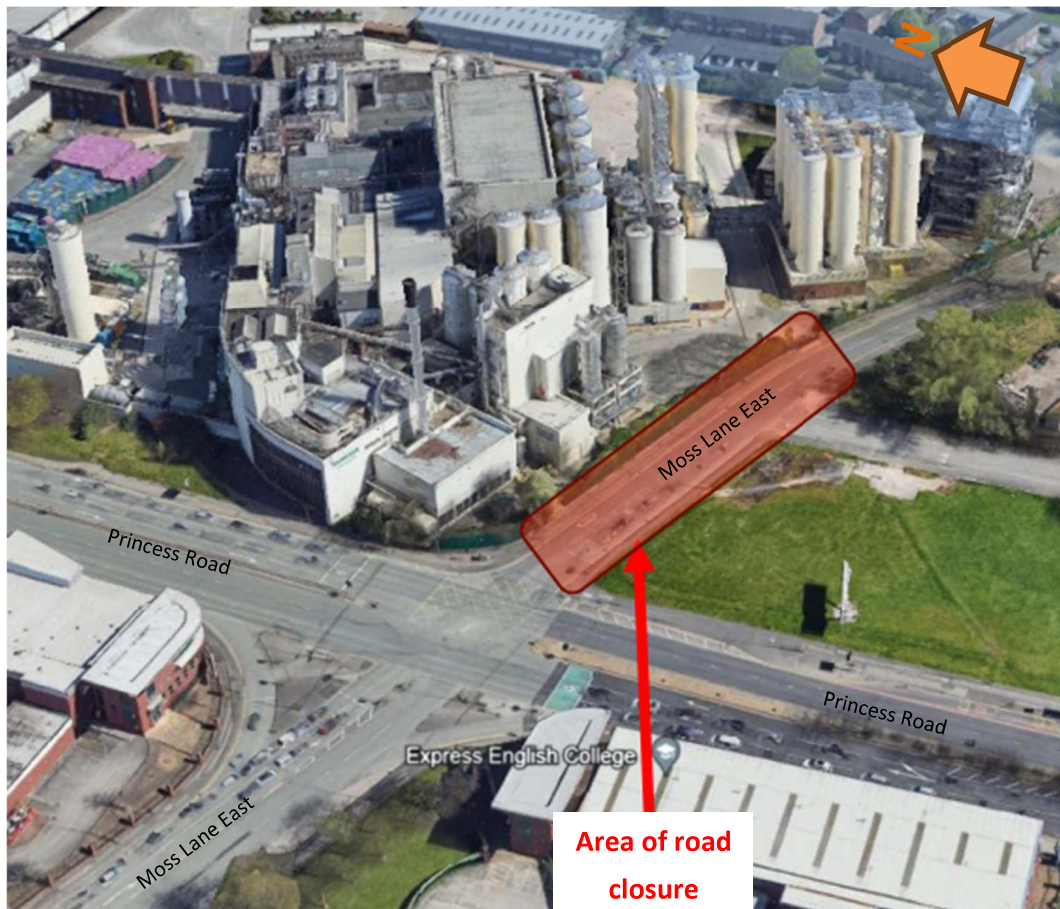
Period 5 **Friday 21st February 2025@1800 HRS to Monday 24th February 2025@0600 HRS**

Period 6 **Friday 28th February 2025@1800 HRS to Monday 3rd March 2025@0600 HRS**

It is anticipated that the works will be undertaken over three weekends with the removal / replacement of MCV1 due to take place within period 1, the removal / replacement of MCV2 due to take place within period 4 and the new cereal cooker installation due to take place within period 5.

The road closure application is for six weekends to allow a contingency for disruptions such as bad weather which will not allow the works to be undertaken.

To accommodate the crane lifts on the weekends listed above, a length of Moss Lane East to the south of the Brewery Site will be closed as illustrated in the figure on the next page.



Ref: <https://earth.google.com/web/search/heineken+manchester>

Appropriate diversion signage shall be installed during each of the road closure periods.
Signage and routes will be as agreed in the Temporary Traffic Regulation Order.

9062/SLW/23.08.24

APPENDIX A

TRAFFIC/SITE MANAGEMENT PLAN



APPENDIX B
PRESENTATION TO LOCAL COMMUNITY
25TH JUNE 2024

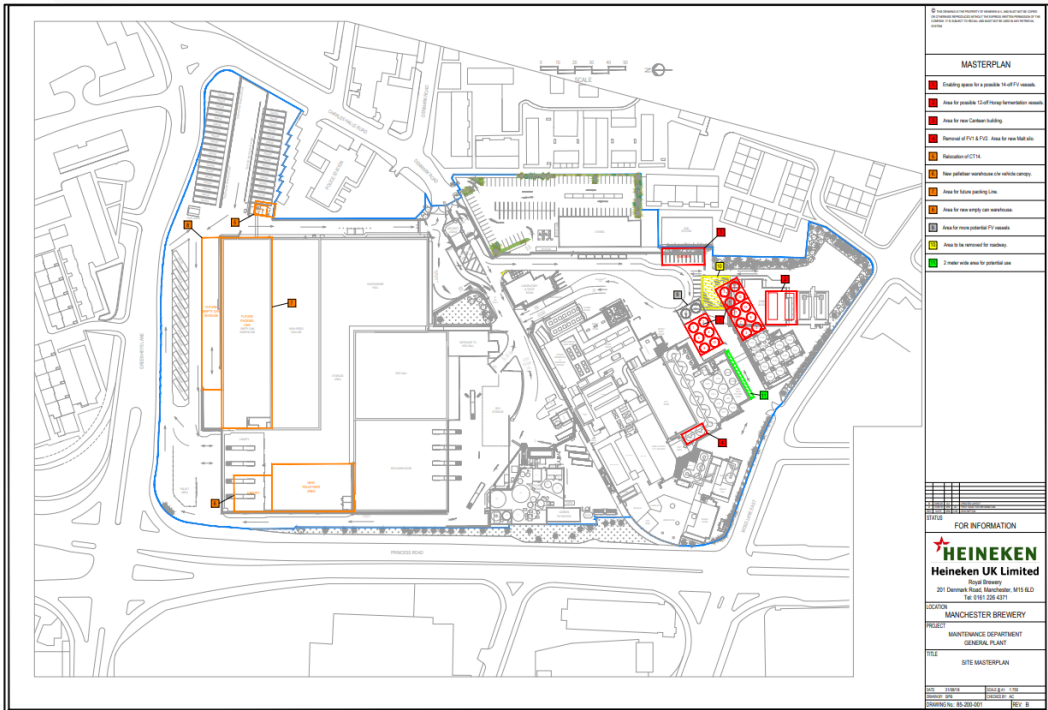
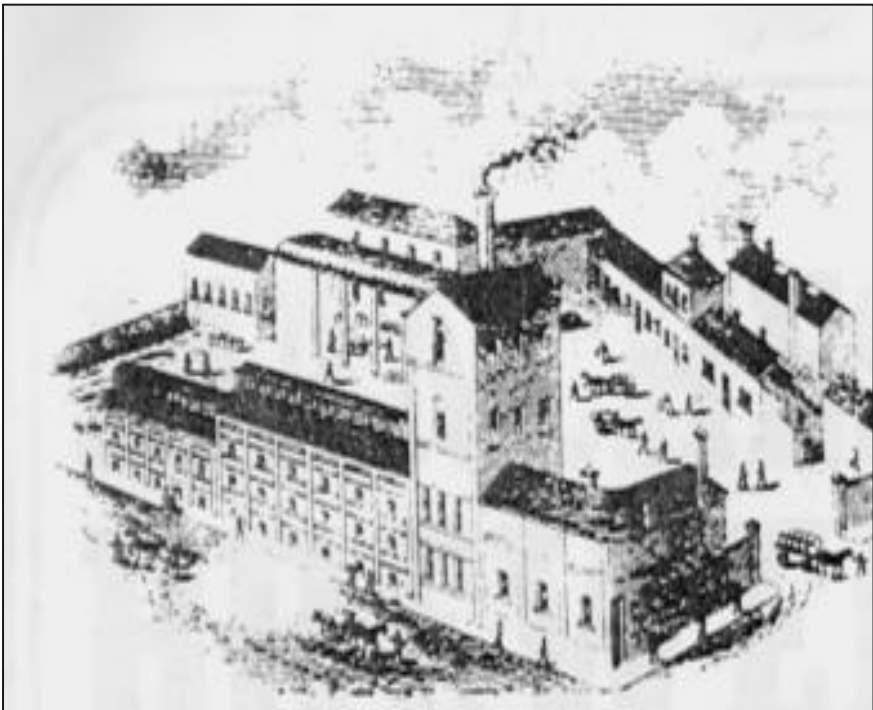


★ HEINEKEN

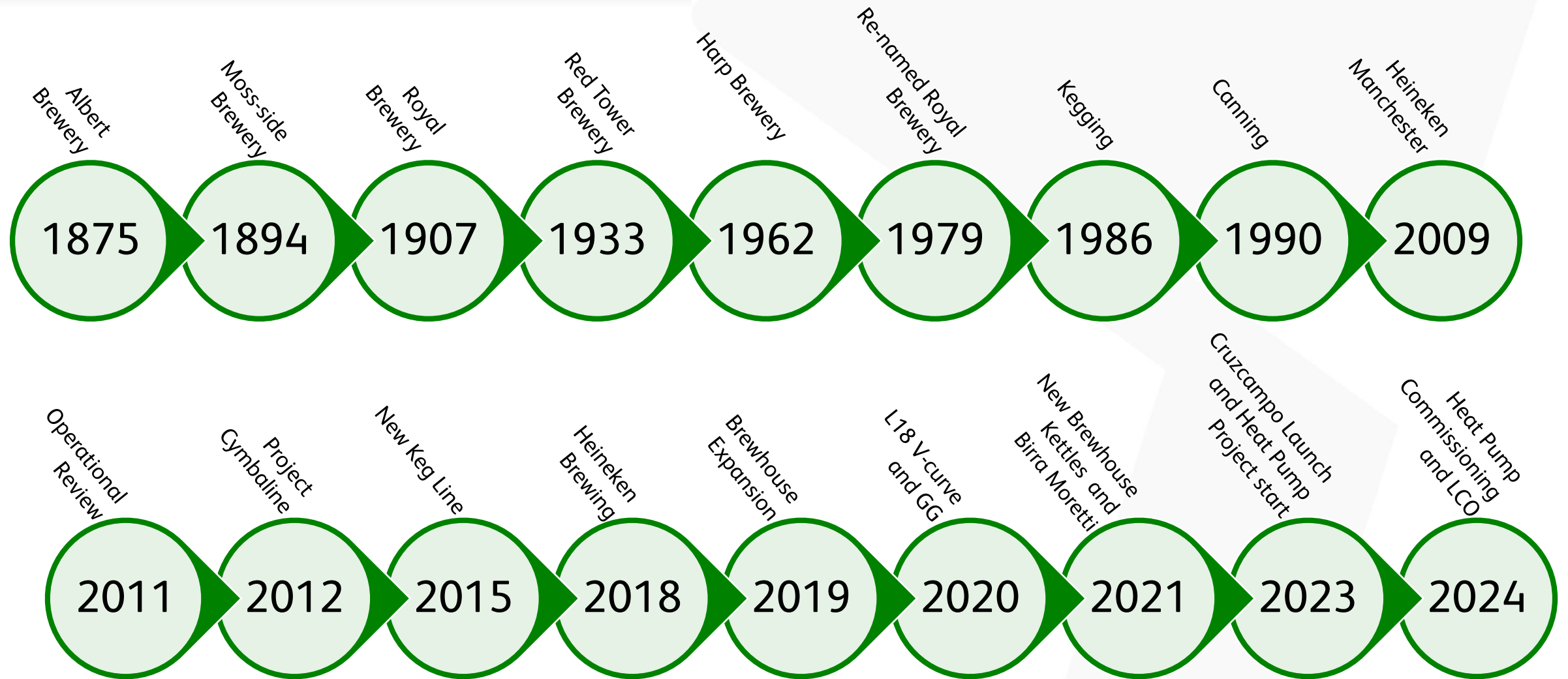
BREW A BETTER WORLD

RAISE THE BAR 2030

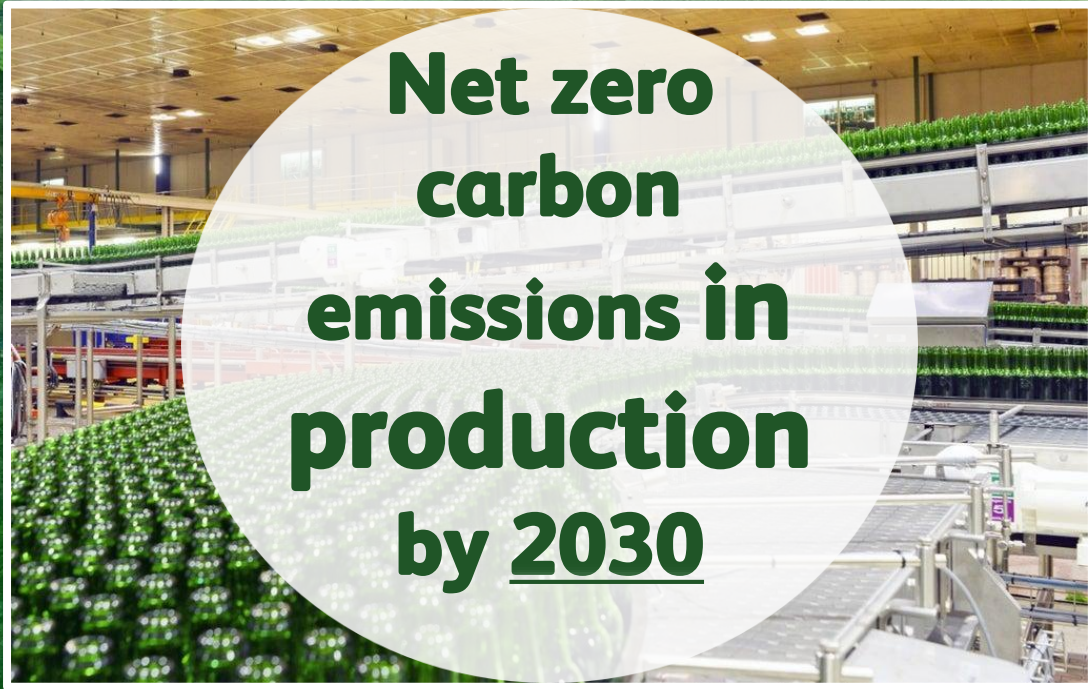
Manchester's' Rich Brewing Heritage from 1875



Key Milestones



The next stage of our journey...reaching net zero



Manchester Net Zero

Phase 1

- Create heat network with heat pumps
- Decarbonise non direct steam areas with 90°C hot water
- Energy Reduction Projects

Phase 2

- Decarbonise the Brewhouse post kettle & MCV

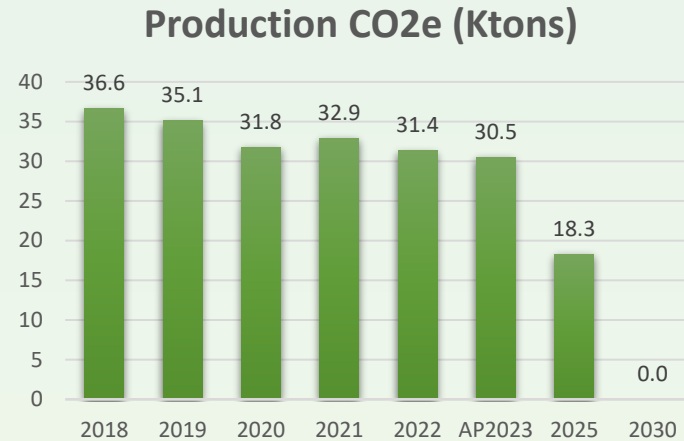
Phase 3

- Create green steam



Net Zero in Production...

The Journey...



The Next Steps...

- Phase 2 Decarbonise MCR Brewhouse (24/25)
- Phase 3 MCR Green Steam (25)
- Hereford - Phase 1 (24/25)
- Tadcaster – Phase 1 (25/26)

The First Steps...

Biogas Engine (CHP)



Cooling Towers



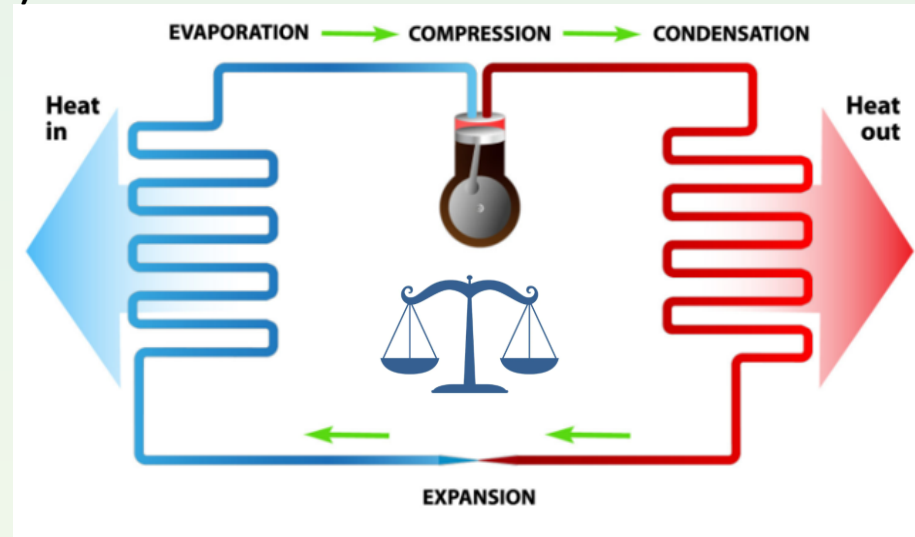
CO2 Recovery



Refrigeration Compressor



MCR Heat Pump & Heat Network



Cleaning in Place Systems



Mashing & Sparging



Pasteurisation



Keg Washers



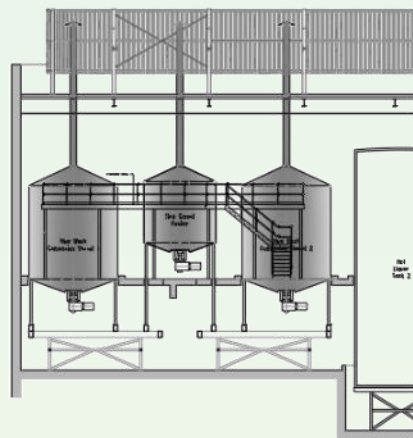
Phase 1 – 5,500 TCO2e
43% reduction in Natural Gas
20% Increase in Electricity
-ve NPV

HEINEKEN

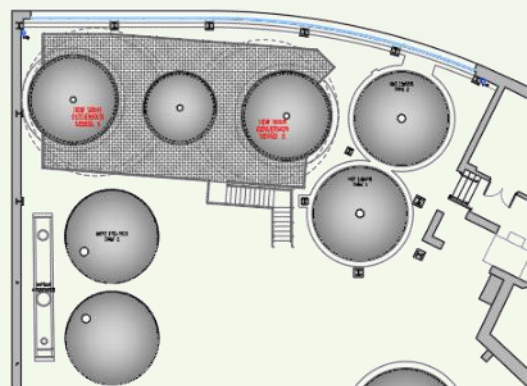


Heat Pumps

Mash Conversion Vessels



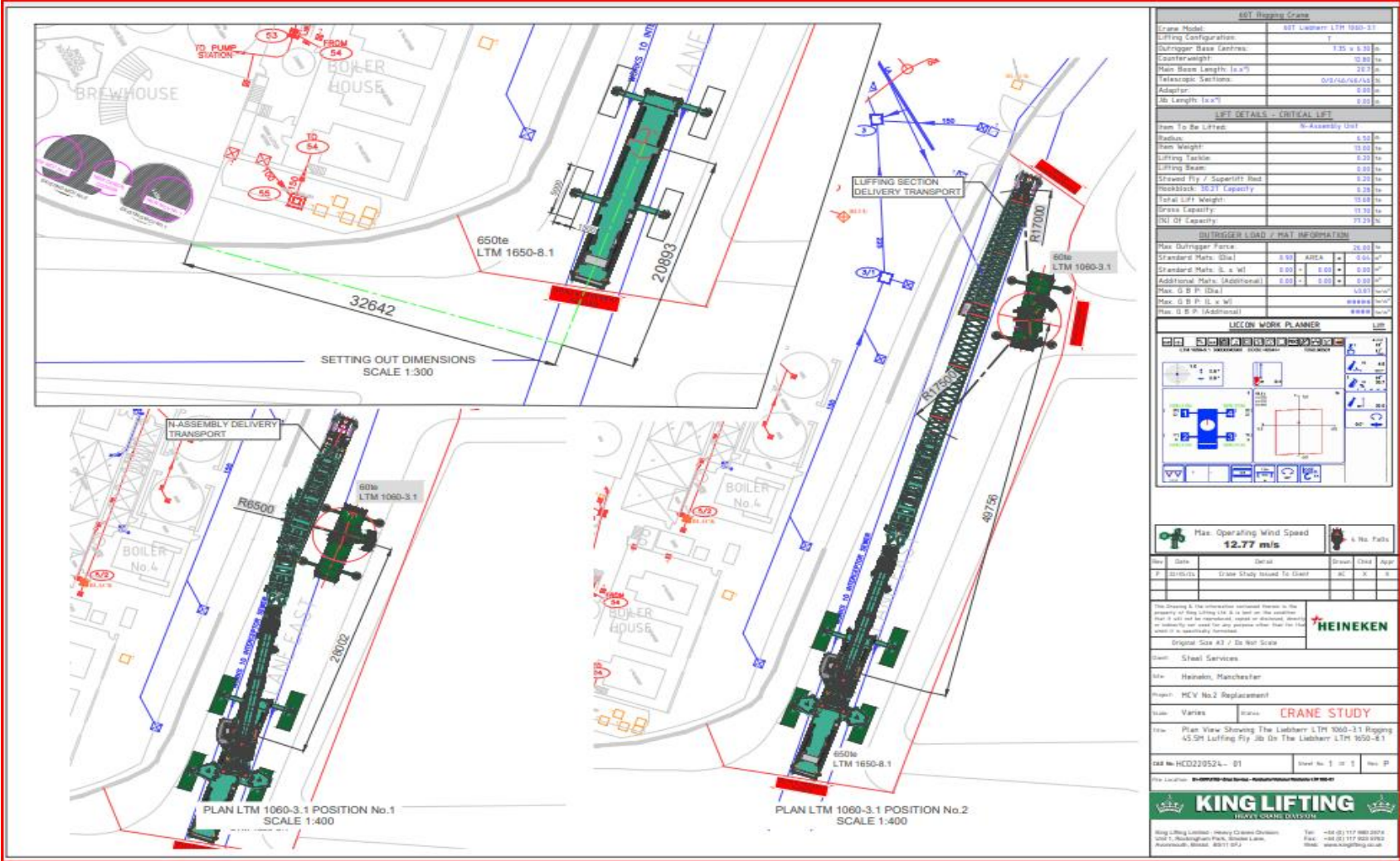
OPTION 1 - VESSEL TOPS LEVEL
ELEVATION
Scale 1:100



OPTION 1 - VESSEL TOPS LEVEL
PLAN
Scale 1:100



Lifting Plan



Boom assembly
with support crane



Ariel View.



Area of road closure

Resident areas



Over what period/days will the works occur and what times?

The highways department will not agree to a road closure during weekdays so the dates we are planning to work comply with this & are shown below.

For the closure of the roadway:-

- Friday 24th January
- Friday 7th February
- Friday 14th February
- Friday 21st February
- Friday 28th February

All from 6pm on the Friday until 6am on the following Monday

Weekend Working hours.

Works inside the brewery and periods of external works with the cranes. Our high-level plan, where some noise can be expected is as follows.

Fridays nights – 6 hours – crane rigging.

Saturday 7am -7pm – dismantle/ new tank positioning. It will be short periods of time, but difficult to tell now the exact times.

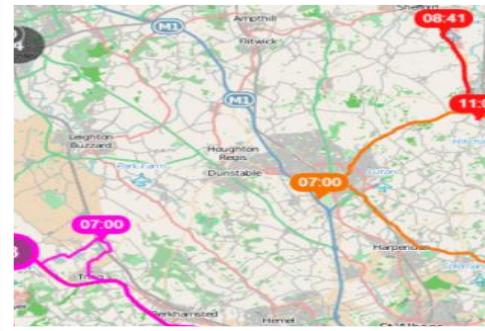
Sunday 7am -7pm – dismantle/ new tank positioning. Short periods of time, difficult to tell now the exact times.

Sunday after 7pm – 6 hours - crane de-rigging then open road.

We are requesting 5 interventions in case the weather does not allow us to do the job, but ideally, we only need 3.



Decarbonisation in Logistics





APPENDIX C
LETTER CIRCULATED TO LOCAL RESIDENTS
JUNE 2024

Our Ref: 21062024

June 2024

Re: Notification of Upcoming Works at Heineken Brewery – January to February 2025



Dear Resident,

We are reaching out to inform you about important upcoming works at the Heineken Brewery, scheduled to take place from January to February 2025. These projects are a crucial part of our ongoing commitment to sustainability and reducing our carbon footprint.

As part of our sustainability agenda, we are implementing the MCV project to replace two existing Mash Conversion Vessels. This initiative is a significant step in our journey to reduce CO2 emissions and achieve our goal of becoming net zero. The new vessels will allow us to operate more efficiently by using hot water instead of steam for heating, thus reducing our reliance on natural gas and lowering our overall emissions.

After evaluating all possible options to conduct the replacement process within our perimeter, it was determined that none were feasible. Following careful consideration and simulation of various scenarios, closing Moss Lane East for several weekends emerged as the least disruptive solution.

Following consultation with the Manchester city council and the crane company, the approval to conduct the works on Moss Lane is pending approval to be executed during weekends, as closing the road was deemed necessary.

The planned road closures are as follows:

- **Friday, January 24, 2025**
- **Friday, February 7, 2025**
- **Friday, February 14, 2025**
- **Friday, February 21, 2025**
- **Friday, February 28, 2025**

Work will involve crane rigging on Friday nights, and intermittent dismantling and tank positioning on Saturday and Sunday (7 AM - 7 PM), with crane de-rigging on Sunday nights followed by road reopening.

We request your understanding as we schedule five interventions to account for potential weather disruptions, though we aim to complete the work in three weekends.

This installation will be phased to ensure continuous operation, with each vessel being replaced one at a time in their existing locations. By incorporating new technology, we will significantly reduce our CO2 emissions, supporting our long-term sustainability goals.

We appreciate your patience and cooperation as we undertake these critical improvements to enhance our environmental performance. If you have any questions or require further information, please do not hesitate to contact us using the details provided below.

Best regards,

Alberto Cantu Garza
UK Capital Projects Manager
Heineken Brewery

alberto.cantu@heineken.co.uk