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8Build  
64 Lemn Street  
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E1 8EU

Date: 8<sup>th</sup> March 2022  
Our Ref: 2202021A-5

For the attention of Paul Norman

Dear Paul,

### **Re: 21 Cressy Road – Acoustic Enclosure for Condensing Units**

Further to our recent meeting to view this project, we are now pleased to outline below our revised quotation and technical details for your consideration.

#### **Scope of Work**

Based upon the requirements of the Climate Acoustics post completion noise survey ref: CLI0309/R1/Rev.B and our estimation of the space available, the scope of work we have identified is to supply, deliver and install 1no. bespoke, acoustic enclosure, consisting of two sides and a roof to house the two existing wall mounted condensing units. The existing builders work walls will form one side and the rear of the enclosure.

Enclosure nominal external dimensions: 1540mm wide x 2300mm high x 640mm deep  
Generally, as shown on Noico drawing No. 52202021/T01 Rev A dated 3<sup>rd</sup> March 2022

Note that to achieve these dimensions, both the condensing units will need to be relocated towards the floor as indicated on the Noico drawing (relocation to be by others, not Noico).

The enclosure roof will be formed from an attenuator to allow air into the enclosure  
The enclosure side wall will be formed from an acoustic louvre to allow air to exit the enclosure  
The front of the enclosure will be formed from a solid acoustic panel with a removable access hatch.

Any structural, wind or weight calculations have been excluded from our scope of work.  
Our price includes for the dismantling of the existing enclosure, but excludes the removal of any electrical connections/lighting.

Clear and free access around the proposed louvre installation will be required for us to undertake our works and it will need to be flat/level to allow our installation team to temporarily store materials in these areas as well as utilise suitable hop ups etc. on top of any access scaffold as required.

We have not included for protection to the works on the understanding that once all treatment is fixed in to position, it is "deemed to be incorporated" and the responsibility for subsequent protection transfers to the Client/Main Contractor. Should there be any remedial work requested due to damage after they are incorporated into the works, this will be subject to extra costs.

Any builders work, weathering and preparation of each area is to be undertaken by others (not by Noico).

All dimensions have been estimated based on plant sizes and site photos. Should there eventually be any discrepancies between the final sizes and our scope of work then we reserve the right to review our pricing and pass on any additional costs accordingly.

#### **Construction & Finish**

The acoustic louvres, acoustic panel work & attenuators outlined in our scope of work will utilise our standard construction 540mm deep acoustic louvre, 50mm panel work and 900mm active length attenuator systems, with all elements fabricated from pre-galvanised steel with a Polyester Powder Coated finish applied to the outer faces, finished to a standard non-metallic RAL number – less commonly



used colours or metallic finishes can incur an additional cost, please check at time of order to confirm availability of required colour.

The underside of the louvre blades, the internal face of the acoustic panel work will have an absorptive face constructed from perforated/expanded pre-galvanised steel – no other finish to be applied. Sandwiched between the solid face and the perforate face will be an inorganic, non-toxic inert mineral fibre infill that also has a tissue facing on one side. A galvanised steel bird mesh with a nominal 12mm opening will be fixed to the rear of the louvre panels and the top of the attenuator.

Due to the size of all elements, they will need to be supplied in suitable modules to ease both manufacture and installation.

The above construction has initially been offered based upon our understanding of the project requirements outlined in your enquiry.

The elements of the enclosure and in particular attenuator roof will not provide a water tight construction to the plant enclosure and so the plant area will need to be suitably water-proofed by others (not Noico Ltd). The attenuator roof of the enclosure itself cannot also be walked upon – it is not man safe – and for reference our whole installation is not designed to support any other materials or services.

The proposed products have been offered for consideration based solely on their robust construction, air flow characteristics and acoustic performance. No other potential properties, ratings or resistances are offered or implied by the Noico Ltd products outlined in these proposals.

**Acoustic & Aerodynamic Performance**

Acoustic Performance:

Octave Band (Hz)	Model	63	125	250	500	1k	2k	4k	8k
Intake Attenuator Insertion Loss (dB)	30/900	7	10	16	29	44	40	29	22
Discharge Acoustic Louvre Transmission Loss (dB)	G540	5	8	14	27	38	40	33	31
Acoustic Panel work Transmission Loss (dB)	PS50	19	19	25	31	40	42	45	41

Incorporating these acoustic measures will reduce the plant noise to the 22dB(A) required by the London Borough of Camden.

Based on the following plant:

- 1 model AOG12LALL condenser requiring 1780m<sup>3</sup>/h of air to operate.
- 1 model AOYG09LMCA condenser requiring 1670m<sup>3</sup>/h of air to operate

The pressure drop imposed on the plant due to the acoustic enclosure will be:

- Intake attenuator 9 Pascals
- Discharge acoustic louvre 12 Pascals
- Total system pressure drop 21 Pascals

**Quotation**

Our price to supply, deliver and install the acoustic enclosure as outlined in our scope of work is as follows:

Acoustic enclosure with removable access hatch for access:

**Total Price: £7,900.00**

This project has been priced on a lump sum basis and our pricing assumes our scope of work will be completed on a single Purchase Order/Short Form Order basis and not Sub-Contract.



Our pricing assumes order placement within one month from the date of this quotation and completion of our works on site within six months from the date of this quotation. We would need to review our proposals for a programme outside of these dates.

The quoted price allows for one off delivery, which shall all be undertaken on a week-day only. Installation would be during normal week day working hours only, typically between 0800-1700 hrs Monday to Friday. Timed/week-end deliveries and or site attendance would incur additional costs. Should any other work be required outside of these hours or waiting time on site exceeds one hour before off loading, then we reserve the right to re-visit our costs and pass them on accordingly.

Our installation pricing is based upon a single, continuous period on site until completion – if there are any changes to this arrangement, such as for phased works or an extended period on site, we reserve the right to re-visit our costs and pass on any increase accordingly.

The price quoted above is based upon our current knowledge of the project and the scope of work outlined in this quotation, which is our interpretation of your requirements.

If upon receipt of this quotation, you would like any modifications or alternatives to these proposals we would be more than pleased to discuss the available options with you.

**Terms and Conditions**

**Attendances**

If the installation/working space is close to the edge of the building the Main Contractor will be required to provide a suitable scaffold and/or safety edge protection barrier. Additionally, the price quoted assumes that the attendances indicated on the attached schedule (last page of this quotation), will be provided as required free of charge to Noico Limited.

We have not included/undertake any setting out on site, with responsibility for this aspect remaining with the Main Contractor. We have also not included for any access equipment (crane/hoist/scissor lift/fork lift/trolleys etc.) assuming this will be provided by the Main Contractor free of charge to Noico Ltd.

**Delivery**

Paid to site and not off-loaded. On site the use of site labour and suitable cranes, hoists, scissor lifts, trolleys and/or forklifts, all as required, are to be made available free of charge to Noico Ltd for off-loading. This would also include the free use of Traffic Marshalls, Banksmen, Slings and Lift Supervisors provided by others (not Noico Ltd). Noico Ltd have not included within our scope of work for the provision of a Project Lifting Plan.

A suitable storage area adjacent to the point of installation is to be provided by the Main Contractor for all of Noico materials.

Please note that unless otherwise stated elsewhere in this quotation, all deliveries will be made on suitable transport, on week days only during normal working hours and at a time to suit Noico Ltd. If special delivery requirements are necessary such as FORS, HIAB, Timed or Multiple deliveries these must be confirmed to Noico Ltd prior to order placement so we can review our carriage costs, reserving the right to amend accordingly.

**Programme**

Please allow the following provisional periods within your contract programme:

Drawings for approval	1 - 2 weeks from receipt of an order
Approval Period	1 - 2 weeks - Client to advise/confirm
Manufacture	3 - 4 weeks from receipt of approval
Installation	1 week



We have assumed only one delivery to site and a continuous uninterrupted programme of installation, Monday to Friday until completion.

In addition to the stated programme please allow sufficient time for comment and approval of our general arrangement drawings.

The periods stated in this programme are the times required from the receipt of all information and confirmation of instructions. They are based on our current workload, which may vary, so please request confirmation at time of order placement. The manufacturing period is from receipt of approval of drawings.

<b>Drawings</b>	The price quoted includes: for the production of a general arrangement drawing which will be issued for approval, plus any reasonable amendments, with up to two revisions maximum. Where, due to changes in requirements or lack of initial information the drawings require substantial alterations, we reserve the right to reimbursement as a variation to the contract.
<b>Guarantee</b>	All components are guaranteed for twelve months from date of delivery. Any extension to this period would incur an extra cost – please request if applicable.
<b>Validity</b>	Our quotation remains open to acceptance for a period of thirty days and prices will be those ruling at date of dispatch. The validity period can be extended on a project-by-project basis – please request if applicable.
<b>Commercial Terms</b>	<p>The price quoted does not include for collateral warranties, performance bonds or parent company guarantees. It also assumes any liquidated and ascertained damages clause in the main contract will not be applied to this contract.</p> <p>At this stage, we have not visited site/perused the full main contract documentation etc. prior to the submittal of this quotation. Should our proposals be of commercial interest we would wish the opportunity to do so nearer the time of order placement to allow us to fully review our proposals.</p>
<b>Payment</b>	<p>Subject to obtaining satisfactory references, Noico Ltd will grant a credit account and payment will be due within thirty days of invoice or application. Where customers fail to pay within the agreed time, Noico Ltd reserve the right to withdraw credit facilities.</p> <p>Should we be unable to obtain satisfactory references to grant a credit account we will then request a Pro-Forma payment by return. Depending on the project circumstances, the requested amount will either be the full contract sum including VAT, or part payments to an agreed programme.</p> <p>Please note that the Noico standard Terms &amp; Conditions require the following stage payments on all installation projects.</p> <ul style="list-style-type: none"><li>20% For design once our drawings have been submitted for approval.</li><li>70% For materials on site once they have been delivered.</li><li>10% For installation works on the project - this may be upon completion, or split for part thereof on large or complex projects.</li></ul>
<b>Retentions</b>	Our price assumes Retentions will not be applied to this contract.
<b>Discount</b>	The stated price is a net figure and no other discounts will be applied to the sum quoted unless agreed in writing by Noico Ltd.
<b>LAD's</b>	Our price assumes that no LAD's will be applied to this contract.



**Insurances**

We have the following insurances, all with renewal on 30th January 2023.

		<b>Policy No.</b>	<b>Company</b>
Professional Indemnity	£2 million	P33895	Markel (UK)Ltd
Employer liability	£10 million	100727131CSI	Aviva
Product liability	£5 million	100727131CSI	Aviva
Public liability	£5 million	100727131CSI	Aviva

**Dayworks**

We have provided a lump sum price for the works outlined in this proposal. We do not utilize day work rates for any element of our works. Consequently, we would wish to provide a quotation for any other works not covered by this quotation. Agreement to which would be required before proceeding.

**VAT**

Prices quoted do not include VAT, which will be added at the appropriate rate.

**Conditions of Sale**

Our standard Conditions of Sale should be read in conjunction with this quotation – available upon request.

We trust this specification and quotation will be of interest and we would welcome the opportunity of developing the project on to the next stage. Should you require any further information or have any queries about our proposals please do not hesitate to contact us.

Yours faithfully  
For Noico Limited

Andy Hetherington MIOA  
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Mobile: 07469 856824  
Email: andy@noico.co.uk

**Attached:**

- Acoustic Calculations
- Noico proposal drawing 52202021/T01/A
- Schedule of Attendances



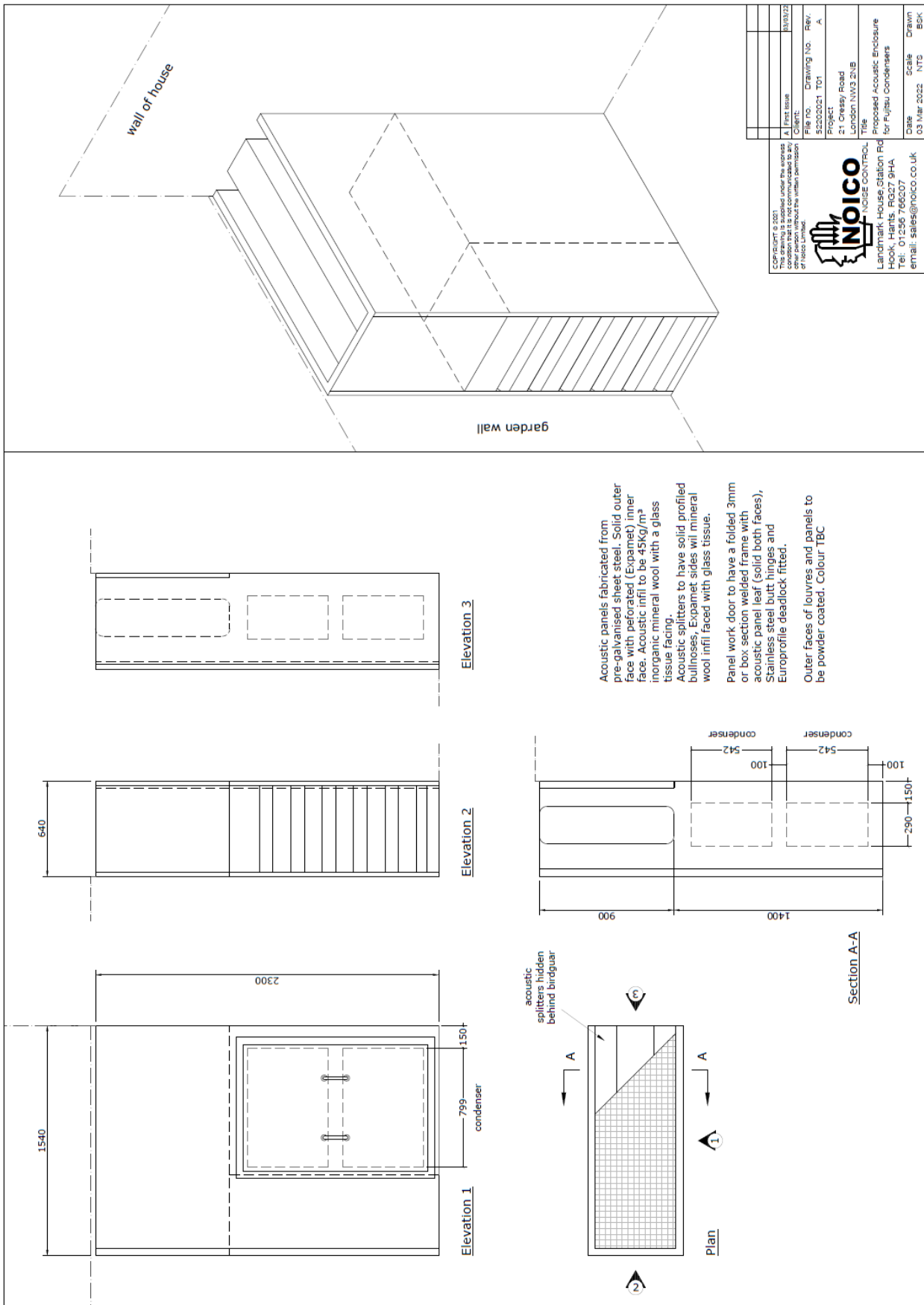
<b>Acoustic Calculations</b>		
Project:	Cressy Rd	Our Ref: 2202021-5
Sound Source:	Condensers	Date: 14 February 2022
Sheet No:	1	Consultant: AJH

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k	A
Condenser #1 (AOG12LALL) SPL	54	48	46	48	47	42	33	25	<b>50</b>
Distance 5.5 m	15	15	15	15	15	15	15	15	
Line of sight	0	0	0	0	0	0	0	0	
Condenser #1 at bedroom window	39	33	31	33	32	27	18	10	<b>36</b>
Condenser #2 (AOYG09LMCA) SPL	49	47	48	42	39	38	34	26	<b>46</b>
Distance 5.5 m	15	15	15	15	15	15	15	15	
Line of sight	0	0	0	0	0	0	0	0	
Condenser #2 at bedroom window	34	32	33	27	24	23	19	11	<b>31</b>
Combined SPL at bedroom window	40	36	35	34	33	29	22	14	<b>37</b>
Acoustic Louvre Type G540	5	8	14	27	38	40	33	31	
BS4142 Acoustic correction (Hum)	3	3	3	3	3	3	3	3	
Result	38	31	24	10	-2	-8	-8	-14	<b>19</b>
<b>London Borough of Camden Noise Criteria for new plant</b>									<b>22</b>
									<b>Pass</b>
Attenuator Type 30/900	7	10	16	29	44	40	29	22	
Acoustic correction	3	3	3	3	3	3	3	3	
Result	36	29	22	8	-8	-8	-4	-5	<b>17</b>
<b>London Borough of Camden Noise Criteria for new plant</b>									<b>22</b>
									<b>Pass</b>
Acoustic Panel Work Type PS50	19	19	25	31	40	42	45	41	
Acoustic correction	3	3	3	3	3	3	3	3	
Result	24	20	13	6	-4	-10	-20	-24	<b>9</b>
<b>London Borough of Camden Noise Criteria for new plant</b>									<b>22</b>
									<b>Pass</b>

Sound Power Level dB re: 10<sup>-12</sup> W

Sound Pressure Level dB re: 2 x 10<sup>-5</sup> Pa







<b>SCHEDULE OF ATTENDANCES</b>	<b>By Engaging Contractor</b>	<b>By Noico</b>	<b>Not Required</b>
Full information is required by Noico to prepare drawings and carry out the works	✓		
Two copies of manufacturing drawings for approval		✓	
Two copies of O&M Manuals including 'as installed' manufacturing drawings		✓	
Setting out points adjacent to work face (main gridlines)	✓		
Supply and installation of main structural steelwork	✓		
Supply and installation of secondary support steelwork	✓		
Builder's work (incl. concrete bases, weathering and structural calculations)	✓		
Electrical works including any necessary lightening/earthing requirements	✓		
Plant for off-loading and distribution	✓		
Labour for off-loading and distribution, including any traffic marshals/slingers	✓		
Crane/Hoist to installation level, incl. Banksman/Lift Supervisor & Lifting Plans	✓		
Secure storage on site within the installation area	✓		
Protection including fragile elements in the vicinity of the work face (including roof)	✓		
Perimeter / safety scaffold if required including edge protection etc.	✓		
Mobile scaffold towers (up to 3 metres high)		✓	
Standing scaffold and alterations/adaptions as required	✓		
Preparation of flat area for use of mobile towers	✓		
Safety and general lighting	✓		
110V electrical supply within 15m of work face	✓		
Hand tools and full PPE to site requirements		✓	
Bedding onto mastic sealant and mastic sealing			✓
Architectural Mastic pointing			✓
Removal of rubbish from work area		✓	
Removal of rubbish from site	✓		
Welfare facilities	✓		