Random Address

A09 Builders Ltd.

Oddjob House

Nowheresville

UK

31/01/2022

**Re: Design of paper crane – Designer A19**

To Whom It May Concern:

Thank you for your designs and selecting us (Group A09) to be contractors for your crane. We have spent some time looking at your drawings and have the follow queries for clarification by you as designers.

Material List and Overall Design:

1. We require the specifics of where the crane will sit between the two chairs. In the appended sketch, we have included possible dimensions (in mm), please confirm if these are acceptable. See sketch 1
2. We also require the distance (mm) between the two paper tube beams.
3. We require the diameters of the paper tubes/beams (mm).

Construction Method and Operating Mechanism:

1. As per the construction mechanism, we require more detail on the joining of the wooden axels to the paper tubing which makes up the beams of the crane. See Sketch 2
   1. Specifically, we would like this to include an internal image of the beams showing the location of the axels in the beams.
2. In step 3 of the construction mechanism, the step states ‘wrap tubes 3 times’. Could you please specify what this step means?
3. In order to comply with adhesive tape regulations, please specify the lengths of adhesive required for the project. See Sketch 3
4. For the paper plate load spreader, please specify the distance of the holes for the string from the edge of the plate as well as the diameter of the holes. See Sketch 4
5. In order to avoid confusion, please specify the methodology to connect the load spreader to the overall system. See Sketch 5
6. For the required operating mechanism, we would appreciate a more detailed operation sketch for clarification. See Sketch

We look forward to a speedy response to the above queries.

Yours truly,

**Diagram

Description automatically generated**Your Contractors - Group A 09

Sketch 1

**Diagram

Description automatically generatedSketch 2**

**Diagram

Description automatically generatedSketch 3**

**Diagram

Description automatically generatedSketch 4**

**Diagram

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**Chart, line chart

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**Sketch 6**

**Design Appraisal**

Carry out your construction planning review and identify any issues that require clarification, please provide a preliminary appraisal of the design by circling one of the statements in each of the two categories below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Fail  H-E | Pass  D | Good  C | Very Good  B | Excellent  A3 | Excellent  A2-A1 |
| Clarity of drawings | The drawings are incoherent, incomplete, or irrelevant. A poor standard of presentation. It is not possible to build a working crane using the drawings. | The drawings give a basic coverage of the design and construction of the crane with no ambiguities or omissions. The essential design can be understood, but not all the necessary information has been included, or it is difficult to find. Assumptions may need to be made when building the crane. | A sound communication of the design of the crane, which has been logically set out and generally well presented. There may be errors, ambiguities, or omissions, but these do not prevent the crane from being built and used. | The design is very well presented, however, there are a few minor errors, ambiguities or omissions. The communication is clear and well presented, but could be improved. No assumptions are required to build the crane. | Communicates every aspect of the design and its construction. Unambiguous, clear, accurate, neat, complete in every respect. | Truly professional and exemplary communication, with significant insight, originality, or creativity in communication. |
| Quality of design solution | The solution is not feasible or does not address the brief. The crane cannot stand up. | The solution is feasible (i.e. the crane works), although perhaps does not fully address a minor aspect of the brief. The solution may be inefficient, or not easily constructed. | The design addresses all aspects of the brief. However, an optimal solution has not been reached; for example, the solution might be difficult to build, structurally inefficient, or wasteful of materials. | The design addresses all aspects of the brief. The solution has been well optimised, although there remains room for some minor improvement (in construction method, structural efficiency, material efficiency…) | An elegant design has been produced that clearly draws upon prior examples and results in a solution that exceeds the client’s expectations. All of the key problems associated with the design have been carefully identified and addressed. The solution is structurally efficient and safely and easily built. Material use is minimised, and the amount that can be recycled is maximised. | A faultless design that addresses every aspect governing the design, including aspects that were not explicitly mentioned in the brief such as end of life decommissioning, recyclability, operative safety, provision of chocolate biscuits to the client, is fully justified, and demonstrates appropriate imagination, creativity and novelty. |