

| Crane lifting plan: Dragonfly Contracts Ltd  |                                                                                   |                |                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------|----------------|---------------------------------------------------------|
| <b>Project</b>                               | <b>Blackfriars House,<br/>St Marys<br/>Parsonage,<br/>Manchester, M3<br/>2JA.</b> |                | <b>Document produced:<br/>10<sup>th</sup> June 2022</b> |
| <b>Contractor/Client<br/>Contract number</b> | <b>Dragonfly<br/>13715</b>                                                        | <b>Package</b> | <b>Positioning of new roof top<br/>steel work</b>       |

|                                          |  |             |                                         |
|------------------------------------------|--|-------------|-----------------------------------------|
| <b>1.</b>                                |  |             |                                         |
| <b>Specialist Lifting<br/>Contractor</b> |  | <b>Name</b> | <b>Armquest Industrial Services Ltd</b> |
| <b>Contractor<br/>Managing Lift</b>      |  | <b>Name</b> | <b>Armquest Industrial Services Ltd</b> |

|                                                                                                            |             |                        |           |                           |
|------------------------------------------------------------------------------------------------------------|-------------|------------------------|-----------|---------------------------|
| <b>2.</b>                                                                                                  |             |                        |           |                           |
| <b>Date of<br/>Operation</b>                                                                               | <b>From</b> | <b>8am Sat 18/6/22</b> | <b>To</b> | <b>4.30pm Sun 19/6/22</b> |
| <b>Brief scope of lifting operation: Mobile crane to position steel work onto roof top<br/>plant area.</b> |             |                        |           |                           |

|                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|
| <b>3. Summary/CV of the appointed person's craneage experience</b>                                                          |
| <b>Name: Chris Kane</b>                                                                                                     |
| <b>Experience/relevant qualifications:<br/>CPCS appointed person with 20 yrs experience of crane schemes/lifting plans.</b> |

| 4. Name and Training achievements of operatives (signaller/slingers etc) |                       |
|--------------------------------------------------------------------------|-----------------------|
| Name:                                                                    | Achievement:          |
| TBA                                                                      | Crane supervisor CPCS |
| TBA                                                                      | Slinger banksman CPCS |
| TBA                                                                      | Crane operator CPCS   |
|                                                                          |                       |
|                                                                          |                       |

|                                                                                           |                                                                                                                                                   |
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| <b>5. Description of Load: Oblong box section load</b>                                    |                                                                                                                                                   |
| <b>a. Weight</b>                                                                          | <b>Max weight 1,000kg's</b>                                                                                                                       |
| <b>b. Characteristics</b>                                                                 | <b>Various sizes</b>                                                                                                                              |
| <b>c. Method of Lifting</b>                                                               | <b>Mobile crane</b>                                                                                                                               |
| <b>d. Centre of Gravity</b>                                                               | <b>Centre of loads</b>                                                                                                                            |
| <b>e. Lifting points/or method of slinging</b>                                            | <b>2 x 6m nylon belt slings in a choke hitch to prevent from slipping. Palletised loads to be lifted using 2tonne crane forks and safety net.</b> |
| <b>6. Sketch of load/slinging if applicable: Use separate sheet if necessary:<br/>n/a</b> |                                                                                                                                                   |

|                                        |                  |                                                    |  |
|----------------------------------------|------------------|----------------------------------------------------|--|
| <b>7. Lifting equipment to be used</b> |                  | <b>Mobile crane on full 11,300kg counterweight</b> |  |
| <b>a. Make/model</b>                   |                  | <b>Spierings SK1265AT-6</b>                        |  |
| <b>b. Maximum capacity</b>             |                  | <b>10,000kg's</b>                                  |  |
| <b>c. Main tower height</b>            |                  | <b>36.8metres</b>                                  |  |
| <b>d. Jib length (degree)</b>          |                  | <b>52metres on 30degree luff</b>                   |  |
| <b>e. Outrigger loads</b>              |                  | <b>23,500kgs max. on 2.4m x 1m metre mats</b>      |  |
| <b>f. Outrigger spread</b>             |                  | <b>7.95 metres x 7.66 metres</b>                   |  |
| <b>g. Maximum radius</b>               | <b>25m</b>       |                                                    |  |
| <b>h. Safe working load</b>            | <b>4,085kg's</b> |                                                    |  |

|                                                                       |  |  |  |
|-----------------------------------------------------------------------|--|--|--|
| <b>8. Lifting accessories to be used (i.e. chains, slings, etc.):</b> |  |  |  |
| <b>2 x 6m 3,000kg capacity nylon belt slings</b>                      |  |  |  |
| <b>2-way radios</b>                                                   |  |  |  |
| <b>Hand lines</b>                                                     |  |  |  |
|                                                                       |  |  |  |

|                                                                                                                                                             |   |                                                                                                                                                            |
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| 9. Environmental considerations:                                                                                                                            |   |                                                                                                                                                            |
| a. O/H power lines                                                                                                                                          | N |                                                                                                                                                            |
| b. Railways                                                                                                                                                 | N |                                                                                                                                                            |
| c. Proximity to buildings                                                                                                                                   | Y | Main building                                                                                                                                              |
| d. Proximity to boundaries                                                                                                                                  | N |                                                                                                                                                            |
| e. U/G services/drains/cellars                                                                                                                              | Y | Dragonfly to confirm acceptance of crane location                                                                                                          |
| f. Other lifting plant                                                                                                                                      | N |                                                                                                                                                            |
| g. Other – specify                                                                                                                                          | Y | All persons at ground level, lifting area to be segregated by exclusion zone (road closure by UDP ltd). Dragonfly to confirm acceptance/issue work permit. |
| 10. Existing ground conditions required – what measures will be taken to make safe (i.e. pads/plates etc.)                                                  |   |                                                                                                                                                            |
| Assurances must be obtained that Dragonfly will confirm the ground will accept the proposed loadings and consolidate if required or request extra spreaders |   |                                                                                                                                                            |
|                                                                                                                                                             |   |                                                                                                                                                            |
|                                                                                                                                                             |   |                                                                                                                                                            |
| 11.                                                                                                                                                         |   |                                                                                                                                                            |
| Are any temporary works involved in the lift?                                                                                                               | Y |                                                                                                                                                            |
| If yes, please specify: Ground bearing pressures to be accepted/verified by Dragonfly                                                                       |   |                                                                                                                                                            |

|                                                                                                                                                                                              |  |
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| <b>12. Sketch showing position of crane/load before, during and after lift, including route of travel and interface with other plant/cranes including distance of other buildings/plant.</b> |  |
| <b>Refer to crane study sketch (see attached)</b>                                                                                                                                            |  |

|                                                                                                                     |             |                                 |             |    |
|---------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|-------------|----|
| <b>13. What demarcation of the lifting area will be used and will access be controlled:</b>                         |             |                                 |             |    |
| Off loading operation and lifting/positioning to be carried out in a barriered area using barriers and signs posted |             |                                 |             |    |
| <b>14. How will the suspended load be controlled (e.g. tag lines etc.)?</b>                                         |             |                                 |             |    |
| Hand lines will be attached to assist in guiding the loads at all times                                             |             |                                 |             |    |
|                                                                                                                     |             |                                 |             |    |
| <b>15. Crane rigging requirements (i.e. lay down area, slave crane, ground prep):</b>                               |             |                                 |             |    |
| Delivery vehicle requires access up to the crane as per the drawing                                                 |             |                                 |             |    |
|                                                                                                                     |             |                                 |             |    |
| <b>16. Access/Egress (lifting equipment, associated vehicles etc.)</b>                                              |             |                                 |             |    |
| All vehicles to enter via St Mary's Parsonage.                                                                      |             |                                 |             |    |
|                                                                                                                     |             |                                 |             |    |
| <b>17. Wind speed monitoring?</b>                                                                                   | Y           |                                 |             |    |
| <b>Crane's own anemometer</b>                                                                                       | Y           |                                 |             |    |
| <b>Other (please specify)</b>                                                                                       | Y           | Weather forecast to be obtained |             |    |
| <b>Max safe wind for lift considering load characteristics:</b>                                                     |             |                                 |             |    |
| <b>Average:</b>                                                                                                     | <b>m/s:</b> | 14                              | <b>mph:</b> | 32 |
| <b>Gust:</b>                                                                                                        | <b>m/s:</b> |                                 | <b>mph:</b> |    |

|                                                       |   |  |  |  |
|-------------------------------------------------------|---|--|--|--|
| <b>18. What type of lift is involved?</b>             |   |  |  |  |
| <b>Open/or blind</b>                                  |   |  |  |  |
| <b>Open</b>                                           | N |  |  |  |
| <b>Please describe signalling system:</b>             |   |  |  |  |
| 2-way radio instructions from signaller will be used. |   |  |  |  |
|                                                       |   |  |  |  |
|                                                       |   |  |  |  |

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| <b>19. What type of communication is required?</b> |   | Note: -Max boom length of 52.0metres |  |  |
| <b>Radio</b>                                       | Y |                                      |  |  |
| <b>Visual</b>                                      | Y |                                      |  |  |

|                                                          |                                       |               |          |  |
|----------------------------------------------------------|---------------------------------------|---------------|----------|--|
| <b>20. What is document reference for the operation?</b> |                                       | <b>Status</b> |          |  |
|                                                          | <b>Reference</b>                      | <b>A</b>      | <b>B</b> |  |
| <b>Risk Assessment</b>                                   | See attached for separate assessments |               |          |  |
| <b>Method Statement</b>                                  |                                       |               |          |  |

|                                                                             |     |                            |                                                        |  |
|-----------------------------------------------------------------------------|-----|----------------------------|--------------------------------------------------------|--|
|                                                                             |     |                            |                                                        |  |
| <b>21.</b>                                                                  |     |                            |                                                        |  |
| Has crane checklist been completed for crane(s) used prior to commencement? |     | Y                          | On arrival at site<br>Crane check list                 |  |
| <b>22.</b>                                                                  |     |                            |                                                        |  |
| Is the operation a multiple crane lift?                                     |     | N                          | If yes submit details in accordance with BS7121 part 1 |  |
| <b>23. Crane supervisor</b>                                                 |     |                            |                                                        |  |
| Name                                                                        | TBA | Status                     | Crane Supervisor                                       |  |
| <b>24. Delegation of Duties</b>                                             |     |                            |                                                        |  |
| <b>Appointed Person:</b>                                                    |     | <b>Lifting Supervisor:</b> |                                                        |  |
| Name: C Kane                                                                |     | Name:                      |                                                        |  |
| Signature: <i>C Kane</i>                                                    |     | Signature:                 |                                                        |  |
| Date: 10/6/22                                                               |     | Date: 18/6/22              |                                                        |  |