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| LIFTING OPERATIONS PLANTEMPLATE  |

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|  Project Details |  |  |  |
|  Project |  |
|  Date |  |

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# Introduction

This Lifting Operations Plan details the project specific organisation and arrangements for the management of lifting operations on the above named project

**Lifting operations include those carried out by mobile cranes, Vehicle Loading Cranes, excavators, forklifts, gantries, telehandlers and other such equipment when being used as a crane to lift or lower loads.**

The responsibility for compiling, updating and reviewing this document rests with the ‘Appointed Person’ as defined in the Primary Standard “[PS Cranes and Lifting](https://lorhsems.com/safety/ps-cranes-and-lifting/)” and who is named in the Project Health and Safety Plan – Laing O’Rourke Construction Australia (LORAC).

The development and complexity of Lifting Plans and the Schedule of Common Lifts will be dependent upon the types and numbers of lifting equipment to be used on the project.

All lifting operations involving any form of crane will always require the following resources and be in accordance with the Primary Standard: “[PS Cranes and Lifting](https://lorhsems.com/safety/ps-cranes-and-lifting/)”:

1. Appointed Person (who may also be the Crane Supervisor in some circumstances)
2. Crane Supervisor (where required)
3. Crane Operator
4. Dogman/Rigger

# Documentation, Inspection and Maintenance

All documentation associated with the lifting operations that is generated during the project must be retained in an orderly manner within a referenced filing system. All documentation will be kept in the project offices for the duration of the project. All project lifting appliances will be thoroughly examined and certified by the supplier prior to arrival on site. The project will then be responsible for ensuring that all lifting equipment is examined every 12 months as part of the testing certification process. The copies of these records will be retained in the project office.

In addition to this, weekly visual inspections will be carried out on all lifting equipment and accessories. The persons carrying out this task will have been appropriately trained to do so. The process is important as it will outline any defects or faults in lifting equipment, be it chains, slings, shackles etc. Should any type of defects be found, then the lifting appliance will be taken out of service immediately, replaced, and the appropriate site management representative informed.

# Safe Working Load

The SWL must be clearly stamped on all lifting equipment. This load must never be exceeded, under any circumstances. Lifting equipment not displaying the SWL must not be used.

# General Lifting Conditions

* Ensure that the designated maximum permitted wind speed is not being reached or exceeded.
* Ensure tag lines are being used (at all times) to help control and stabilise large or awkward loads.
* Ensure that all loads are landed on suitable dunnage to prevent any damage to slings and chains.
* Ensure that all loads are stable with centre of Crane hook over centre of gravity of the lift being carried out.

# Common Lifts

All common lifts are detailed in Section 9 & 10 of this Lifting Plan. Any load, which falls outside of the ‘common lift’ criteria shall be classified as a ‘High Risk Lift or will require a separate lift analysis. It will require that the supplier provides, load specific details relating to weight, size, and centre of gravity and advised method of slinging.

#  The Authorised Crane Team Members

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| Project Details |  |  |  |
| Project |  |
| Ref |  | **Date** |  |

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| --- | --- | --- | --- | --- |
| Position | Laing O’Rourke Appointment | Contractors ApprovedAppointment | Areas of Responsibilities | “PS Cranes and Lifting” issued?(Signature and Date) |
| Appointed Person (Lifting Operations) |  |  |  |  |
|  |  |  |  |
| Crane Supervisors(where required) |  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Crane OperatorMust hold appropriate qualifications |  |  |  |  |
|  |  |  |  |

Authorisation of Dogman/Rigger (Must hold appropriate qualifications)

|  | Name | Company | Card registration | Expiry Date | Authorised By(Name and Date) |
| --- | --- | --- | --- | --- | --- |
| 1. |  |  |  |  |  |
| 2. |  |  |  |  |  |
| 3. |  |  |  |  |  |
| 4. |  |  |  |  |  |
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| 8. |  |  |  |  |  |
| 9. |  |  |  |  |  |
| 10. |  |  |  |  |  |

# Identification and Initial Assessment of Lifting Operations

Note: The loads specified below are included for illustration purposes only – Each project Appointed Person must develop their own assessment based on the common lifts specific to their project

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| Project Details |  |  |
| Project |  |  |
| Date |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation** | **Items to** **be lifted** | **Max wt.** | **Crane to be used** | **Lifting Accessories to be used** | **Location on Site****Load lifted from - to** | **SWMS required?****yes /no** | **Comments****(i.e. basic/common, standard or complex lift)** |
| Reinforcement - Loose | Reinforcement Bar | TBC | Mobile | Chains, Slings | TBC | Y | Basic/Common |
| Reinforcement – Pre-Fabricated | Reinforcement Bar | TBC | Mobile | Chains, Slings | TBC | Y | Basic/Common |
| Formwork | Column & Wall shutters | TBC | Mobile | Chains, Slings, Clamps | TBC | Y | Basic/Common |
| Decking/Falsework | Aluminium legs, frames, beams. | TBC | Mobile | Chains, Slings | TBC | Y | Basic/Common |
| Plant | Compressors, water bowser etc | TBC | Mobile | Chains | TBC | N | Basic/Common |
| Concrete Skip | 2m3 (max) concrete skip | 4.8t + Skip | Mobile | Chains & Drop Chain | TBC | Y | Basic/Common |
| Waste Skips | 6 yard (max) waste skip | TBC | Mobile | Chains | TBC | N | Basic/Common |
| Concrete Sections – Apron works | Cut sections of Apron slab | TBC | Mobile | Chains | TBC | Y | Basic/Common |
| Ply & Timber | Ply - 50 sheets max. Timber - FullStandard. | 3.2t | Mobile | Chains, Slings | TBC | N | Basic/Common |
| Structural Steel Scts. | Structural Steel | TBC | Moble | Chains, Slings | TBC | Y | All. LORAC to advise. |

# Schedule of Common Lifts (Basic Lifts)

Note: The lifts specified below are included for illustration purposes only – Each project Appointed Person must develop their own schedule based on the common lifts specific to their project

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| Project Details |  |  |
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A “Schedule of Basic Lifts” identifies those items that are regularly lifted on construction sites and the standard method by which they are to be attached to the crane.

|  |  |
| --- | --- |
| Load | Method |
| Concrete (2m3 - max). | Single leg snotter chain. SWL required – 4.8t +skip weight. |
| Bundles of tubes, bars or other similar materials, e.g. scaffold tubes, bars, small diameter pipes, lengths of timber, etc. - whether banded or not. | Double wrapped two leg chain slings insert means of preventing slip – timber bite. |
| Reinforcement steelwork, off-loading and site work place movement. | Double wrapped two leg slings(Single wrapped acceptable only where sling legs are prevented from sliding together). |
| Palletised materials. | Enclosed Brick/Block Cage. |
| Stillages | Four leg chain slings wrapped around corner posts Beware rusted bases. |
| Rubbish skips. | Must be tested and certificated if lifting lugs are used or skip with steel box sections under the base and spreadersBeware of rusted floors/overloaded skips. |
| Large diameter pipes. | Pass single leg sling through pipe if short length.For long pipes use two leg slings choke hitched orsingle leg sling choke hitched for placing in final position in trench. |
| Portable Offices  | 'D' Shackles and four leg slings (refer to lifting diagramBeware of loose furniture. |

# Schedule of Common/Basic Lifts

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| --- | --- |
| Load | Method |
| Falsework materials packed in bundles or in stillagesTABLE SYSTEMS – Detailed in specific SWMS. | Double wrapped two leg chain slings insert means of preventing slip – timber bite. |
| Plywood decking materials in sheet form packed in bundles. | Two leg chain slings insert means of preventing slip – timber bite. |
| 4” x 3” softwood timber in 4.8m lengths packed in standards – general timber. | Two leg chain slings insert means of preventing slip – timber bite. |
| K-Guard/Extra Guard – Edge Protection systems.StillageNon-stillage | Appropriate lifting points – stillage.Double wrapped two leg chain slings insert means of preventing slip – timber bite. |
| Pre-formed column and wall formwork shutters. Radius column forms – ‘Easytube’ system. | Appropriate lifting points. Clamp lifting point system.Single chain wrapped around tube – timber bite for slippage.  |
| Pre-Cast Concrete elements/sections. | Appropriate lifting points – designated. Note: Clutches must match the maker’s lifting pinsSWL – check is required on this.Back up slings/chains required |
| Pre-fabricated reinforcement sections. | Scaffold tube, double tied along its length, 1/3 from the top section of reo. Chains doubled wrapped around tube.Ensure steel has appropriate welded components as required |
| Plant & Equipment – compressors, water bowsers etc. | Appropriate lifting points on plant/equipment. Refer to Manufacturer’s specifications |

Note:

1. For the above common/basic lifts, only the stated methods are to be used unless the Appointed Person has authorised alternative methods.

# Project Arrangements for Procurement of Lifting Equipment

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| The purpose of this element of the Plan is to detail the arrangements made by the project for direct procurement (as opposed to subcontractor procurement) of lifting equipment |
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# Crane Team Communication

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| This element of the Plan should set out the project specific arrangements for both formal and informal methods of communication within the crane team itself and between the crane team and site management. |
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# Site Layout and Crane Location Drawings (Add to this section)

# Appendix A - [Appointed Person for Lifting Operations](https://lorhsems.com/safety/ps-cranes-and-lifting/)



# Appendix B - [Appointment Laing O’Rourke Crane Supervisor](https://lorhsems.com/safety/ps-cranes-and-lifting/)



# Appendix C - [Crane Team Meeting Agenda Template](https://lorhsems.com/safety/ps-cranes-and-lifting/)

