|  |  |
| --- | --- |
| **DATE:** [INSERT] | **COMPLETED BY:** [INSERT NAME] |
| **PROJECT:** [INSERT NAME] | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **REVIEW & APPROVAL BY:** | **Date for Review #1:**  **/ /** | **Date for Review #2:**  **/ /** | **Date for Review #3:**  **/ /** | **Date for Review #4:**  **/ /** | **Date for Review #5:**  **/ /** | **Date for Review #6:**  **/ /** |
| National Safety Manager  **(Rob McGregor)** |  |  |  |  |  |  |
| Construction Manager |  |  |  |  |  |  |
| Project Manager  **(sign and print name)** |  |  |  |  |  |  |
| Site Manager / Foreman  **(sign and print name)** |  |  |  |  |  |  |
| WHS Rep  **(sign and print name)** |  |  |  |  |  |  |
| **RISK ESCALATION:**  **I confirm that any unacceptable risks with Class 1 & 2 category have been escalated to myself and I am satisfied that the controls specified in this risk assessment have lowered the risks to so far as is reasonably practicable.** | | | | | | |
| Director  **(sign and print name)** |  |  |  |  |  |  |
| Construction Manager  **(sign and print name)** |  |  |  |  |  |  |
| National Safety Manager  **Rob McGregor** |  |  |  |  |  |  |
| **IMPORTANT NOTE:** This Risk Assessmentshould be reviewed every month **OR** when a significant change in the scope of works or design occurs **OR** when personnel allocated to the project team changes **OR** following an incident occurring (as advised by the WHS Manager). | | | | | | | |

**RISK ASSESSMENT MATRIX**

**DECIDING ON APPROPRIATE CORRECTIVE ACTION (HIERARCHY OF CONTROLS)**

**More desirable** **Eliminate**

* Remove the risk/hazard

**Substitute**

* Use different materials/process/method to make safer

**Engineer/Isolate**

* Ensure, by design, that if an incident occurs, its likelihood and/or consequences are limited and controlled
* Isolate people from the high risk area (eg. Barriers, traffic controllers, sound booths etc)

**Administration**

* Use of policies and standards
* Procedures, instruction and supervision
* Training, briefing and drills, to reduce likelihood of an incident

**Personal Protective Equipment (PPE)**

**Less desirable** - Reduces consequences only

**EXAMPLE OF WORKING AT HEIGHTS (HIERARCHY OF CONTROLS)**

**More desirable** **Level 1 Controls**

* Work on the Ground
* Work from a Solid Construction

**Level 2 Controls**

* Passive fall prevention devices
* Scaffolds
* Elevating Work Platforms
* Mast climbing work platforms
* Work boxes
* Perimeter protection
* Work positioning systems
* Industrial rope access systems
* Travel restraint systems
* Fall Arrest Systems

**Level 3 Controls**

**Less desirable** - Ladders, Procedures, Training

Map the consequence and likelihood classifications together on the Risk Matrix to identify the

applicable risk ranking. For example a “Very Serious” consequence together with a “Likely” likelihood

would be classified as “1” risk rating.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Consequence** | | | | |
| Disaster | Very Serious | Serious | Substantial | Minor |
| **Likelihood** | Almost certain | 1 | 1 | 1 | 2 | 2 |
| Likely | 1 | 1 | 2 | 2 | 2 |
| Possible | 1 | 2 | 2 | 2 | 3 |
| Remotely possible | 2 | 2 | 2 | 3 | 3 |

|  |  |
| --- | --- |
| **Likelihood / consequence** | **Risk Class** |
| The hazard has the potential to:   * Permanently disable or kill * Cause major damage to the structure * Have significant impact on the surrounding population and environment | **1** |
| The hazard has the potential to:   * Temporarily disable or seriously injure * Cause minor damage to the structure * Breach the site boundary and pollute local environment | **2** |
| The hazard has the potential to:   * Cause minor injury * Be contained within the site boundary | **3** |

CIP’s acceptable risk class is “3”as calculated from the above risk matrix. All risks with risk class “1” and “2” shall be controlled as per the following risk control priorities. Subcontractors may use their own risk rating system however CIP will ensure that the acceptable risk class is consistent with the below matrix as part of the SWMS review process.

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk Class** | **Action Required** | **Authority** | **Time-frame** |
| **1** | Stop work and develop risk treatment plan so that risk can be lowered to so far as is reasonably practicable. | Managing Director/ Deputy Managing Director/Director/National Safety Manager | Immediate |
| **2** | Stop work and implement Level 1 or Level 2 controls so that risk can be lowered to so far as is reasonably practicable. | Director /Construction Manager/National Safety Manager | Within 1 day |
| **3** | Monitor risk controls and re-assess if change occurs. | Business Unit Manager/ Project Manager/Site Manager/Safety Officer | On-going |

| **RISK NO.** | **ACTIVITY DESCRIPTION** | **APPLIC. TO PROJECT**  **Y / N** | **TYPE OF IMPACT OR HAZARD** | **PRE-ACTION**  **RISK CLASS**  **1-2-3** | **ACTION REQUIRED**  **(AS DISCUSSED BY RISK ASSESSMENT REVIEW TEAM)** | **HIERARCHY OF CONTROL CLASS** | **SAFE WORK METHOD STATEMENTS** | | | | **POST-ACTION**  **RISK CLASS**  **1-2-3** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BY CIP** | **DATE** | **BY SUB** | **DATE** |  |
| **1.0** | **PRELIMINARIES/SITE ESTABLISHMENT** | | | | | | | | | | |
| 1.1 | Site Shed Installation / Site Office fit out |  | Vehicle Collisions,  Pedestrian Injury,  Mobile Equipment  Noise,  Hazardous Manual Tasks  Electrocution  Access / Egress  Delivery of Materials and Equipment |  | Implement Traffic Management as per TMP and Traffic Management Risk Assessment  Testing and Tagging as per AS3012 (CIP policy is 3 monthly for site tools)  RCDS are monthly wiring to sheds to be installed in accordance with all standards and codes  Ensure wiring is RCD protected and lights are fitted with wire guards as a minimum  Supply boards, cables and cords must be safe by design and located or protected so as to avoid damage  SWMS for works being undertaken  Site Specific Induction  Site fencing installed prior to delivery of sheds  Dial before You Dig  Obtain Certificate of Conformity for plant operating on site  Certificate of Conformity for plant  Evidence of operator’s training / competence | Isolate  Administration  Administration  Isolate  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.2 | Standard of Site Facilities. |  | Inadequate for project  Inadequate response time for first aid, Inadequate access  Unhygienic conditions |  | Complete a site establishment Checklist  Conduct an emergency response drill  Daily cleaning of all amenities | Administration  Administration  Engineering |  |  |  |  |  |
| 1.3 | Installation of Temporary Services  (I.e. power and plumbing) |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Exposure of live services  (continued…)  Materials dropped from height  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns |  | Isolation / Tag Out / Lock Out of Services No live work  Site Specific SWMS MSDS and associated risk assessment for hazardous substances  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand digging near suspected service locations prior to use of machinery.  Dial before you dig plans Physically mark known service locations  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference. | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Isolate  Administration  Administration  PPE  Administration  Isolate |  |  |  |  |  |
| 1.4 | Emergency and First Aid |  | Unprepared to handle emergencies  Workers not familiar with emergency procedures  Inadequate personnel on site to manage emergencies |  | Complete first aid risk assessment and emergency risk assessment for the project  Provide first aid and emergency equipment as per risk assessment.  Prepare emergency response plan (ERP)  Inform workers of ERP at induction  Conduct Emergency Response Drill to test ERP effectiveness.  Display Evacuation Plan  Signage at entry and exits  First Aid facilities and emergency equipment clearly sign posted.  First aid facilities and emergency equipment inspected and checked periodically. | Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.5 | Site Access  (including stair access and egress) |  | Vehicle Collisions  Pedestrian Injury  Visitors to site  Delivery of Materials and Equipment,  Slips, trips and falls |  | Implement Traffic Management as per Traffic Management Plan and Traffic Management Risk Assess  SWMS for works being undertaken  Site Specific Induction  Site fencing installed prior to accepting deliveries  Obtain Certificate of Conformity for plant operating on site  Evidence of training /competence  Signage at entry and exits  Stairs constructed to Australian Standard  Overhead survey of any powerlines | Isolate  Administration  Administration  Isolate  Administration  Administration  Administration  Engineering |  |  |  |  |  |
| 1.6 | Procurement of Subcontractors |  | Inexperience  Availability  Safety Compliance  Training  Discrimination, Bullying, Harassment, Violence and conflict  Changes in human resource management trends  Repeated and unwelcome and unsolicited behaviour |  | Tender interview potential subcontractors to determine capability prior to selection.  Subcontractor to comply with tendering requirements (i.e completion of Prequalification requirements)  Copy of Site Safety Management Plan and Preliminary Risk Assessment issued to subcontractors prior to works commencing.  Site Specific Induction into Site Safety Management Plan, CIP Policies, Issue Resolution Procedures, Preliminary Risk Assessment, etc. | Administration  Administration  Administration |  |  |  |  |  |
| 1.7 | Hours of Work |  | Fatigue  Disruption to neighbouring properties / community |  | Rotation of works / schedule shifts  Work carried out in accordance with contract / local council by-laws or workplace agreement.  Monitor excessive overtime. | Administration  Administration  Administration |  |  |  |  |  |
| 1.8 | Implementation of WHS Safety System |  | Staff / Workers not aware of responsibilities and obligations |  | Site WHS Plan on site and workers Educated of its content at Site induction | Administration |  |  |  |  |  |
| 1.9 | External Hoardings, fences, gates and entry points |  | Vehicle Collisions  Pedestrian Injury  Visitors to site  Delivery of Materials and Equipment,  Slips, trips and falls |  | Complete Site Establishment Checklist  Implement Traffic Management as per Traffic Management Plan  SWMS for works being undertaken  Site Specific Induction  Inspection of fencing and rectify any inadequacies  Obtain Certificate of Conformity for plant operating on site  Evidence of training / competence | Isolate  Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.10 | Internal hoardings and fences gates and entry points |  | Vehicle Collisions  Pedestrian Injury  Visitors to site  Delivery of Materials and Equipment,  Slips, trips and falls |  | Implement Traffic Management as per Traffic Management Plan  SWMS for works being undertaken  Site Specific Induction  Inspection of fencing and rectify any inadequacies  (continued…)  Obtain Certificate of Conformity for plant operating on site  Evidence of training / competence  Signage at entry and exits | Isolate  Administration  Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.11 | Roads and footpaths |  | Vehicle Collisions  Pedestrian Injury  Visitors to site  Delivery of Materials and Equipment,  Slips, trips and falls |  | Implement Traffic Management as per Traffic Management Plan  Roads and footpaths to be kept clean and free from obstruction at all times.  Provide control to all adjacent kerb in-lets along site boundary and maintain these controls as required.  Any work performed outside the site boundary controlled by road and footpath closures traffic control and co-ordination with local community.  SWMS for works being undertaken  Site Specific Induction  Inspection of roads/footpaths and rectify any inadequacies  Evidence of training / competence | Isolate  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.12 | Visitors |  | Vehicle Collisions  Pedestrian Injury  Slips, trips and falls |  | Implement Traffic Management as per TMP Plan  Ensure appropriate signage at entry.  Visitors register to be established and maintained  Visitors sign in/sign out book and Procedure.  Site Specific Induction or accompany on site at all times  Adhere to minimum PPE requirements | Isolate  Administration  Administration  Administration  PPE |  |  |  |  |  |
| 1.13 | Working in public areas/pedestrians adjacent site |  | Vehicle Collisions  Pedestrian Injury  Mobile Equipment  Noise  Electrical hazards,  Access/ Egress  Delivery of Materials and Equipment  Security of site |  | Implement Traffic Management as per Traffic Management Plan  SWMS for works being undertaken  Site Specific Induction  Site fencing installed prior to accepting deliveries  Obtain Certificate of Conformity for plant operating on site  Evidence of training / competence | Isolate  Administration  Administration  Isolate  Administration  Administration |  |  |  |  |  |
| 1.14 | Working in / adjacent Client Workplace |  | Vehicle Collisions  Pedestrian Injury  Mobile Equipment  Noise  Electrical hazards,  Access/ Egress  Delivery of Materials and Equipment  Security of site |  | Implement Traffic Management as per Traffic Management Plan  SWMS for works being undertaken  Site Specific Induction  Site fencing installed prior to accepting deliveries  Obtain Certificate of Conformity for plant operating on site  Evidence of training / competence  Signage at entry and exits | Isolate  Administration  Administration  Isolate  Administration  Administration  Administration |  |  |  |  |  |
| 1.15 | Vehicle movements – entry and exit to sites |  | Vehicle Collisions  Pedestrian Injury  Mobile Equipment  Noise  Electrical hazards,  Access/ Egress  Delivery of Materials and Equipment  Security of site |  | Implement Traffic Management as per Traffic Management Plan  Flashing Lights  SWMS for works being undertaken  Site Specific Induction  Site fencing installed prior to accepting deliveries  Obtain Certificate of Conformity for plant operating on site  Evidence of training / competence  Signage at entry and exits  Overhead survey of any powerlines and height signage. | Isolate  Administration  Administration  Isolate  Administration  Administration  Administration |  |  |  |  |  |
| 1.16 | Cranage |  | Height Restrictions (Aircraft fly zone violation/overhead powerlines)  Electrocution  Underground services  Machine failure  Rigging failure  Falling objects |  | Site specific height restriction plan  Crane Lift Plan, Daily plant prestart checklist  Ticketed operator  Exclusion zones and signage  Site survey overhead wires/underground services, site services plan  Plant maintenance records, Certificate of Conformity, plant risk assessment  Annual load test all lifting equipment  Site Specific SWMS  Site Specific Induction | Administration  Isolate  Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.17 | Identification of existing services – permanent and temporary |  | Unintentional disconnection of service  Live service not disconnected  Damage to service infrastructure  Electrocution  Exposure of gases  Pollution of water mains |  | Dial before you dig plans  SWMS for works being undertaken  Site Specific Induction  Permit to excavate  Locator to complete Services search  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Locate services in the areas to be excavated if required  Hand digging near suspected service locations  prior to use of machinery.  Mark known service locations on site through use of star pickets, bunting and signage  Up to date Site Services Plan | Administration  Administration  Administration  Administration  Administration  Administration  Substitute  Administration  Administration |  |  |  |  |  |
| 1.18 | Labour Hire *(identify any tasks required to be undertaken by labour hire for the project):* |  | Vehicle Collisions  Pedestrian Injury  Slips, trips and falls  Inadequately trained to carry out the works |  | Implement Traffic Management as per Traffic Management Plan  SWMS for works being undertaken  Site Specific Induction  Evidence of training / competence  Signage at entry and exits | Isolate  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.19 | General rubbish removal from site |  | Trip Hazards  Hazardous materials  Inappropriate waste disposal  Unhygienic conditions |  | Provide adequate skips / bins  Regular changeover by removal contractor  Skips located in area easily accessed by removal contractor for changeover  Monitor subcontractor housekeeping | Administration  Administration  Administration  Administration |  |  |  |  |  |
| 1.20 | Other: |  |  |  |  |  |  |  |  |  |  |
| **2.0** | **TRADES** | | | | | | | | | | |
| 2.1 | Demolition |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Contaminated Waste Disposal  Client / Public / Pedestrian Injury  Exposure of live services  Structure collapse  Work at Height – falls, objects dropped |  | Complete demolition methodology/plan as per AS2601  Isolation/screening of area to be demolished  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Obtain Asbestos Register from the client  Asbestos Audit to be completed (where required)  Asbestos Clearance Certificate to be obtained (where required)  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Obtain engineering approval prior to demolition  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  Evidence of training / competence  PPE as per SWMS  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Demolition exclusion zone to be created.  Refer to Demolition Management Procedure (C-S-MG-014) and ensure procedure is issued to Subcontractor. | Isolate  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Engineering  Administration  Administration  Substitute  Isolate  Administration  Administration  PPE |  |  |  |  |  |
| 2.2 | Generator |  | Hazardous manual task  Fire & explosion  Inhalation of exhaust fumes  Electrocution, burns |  | Site Specific SWMS  PPE as per SWMS  Air monitoring  Set-up generator in well ventilated area use extraction fans when working in confined work space  Test and tag RCD and all electrical tools | Administration  Administration  Isolate  Administration  Administration |  |  |  |  |  |
| 2.3 | Asbestos Removal |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Contaminated Waste Disposal  Client / Public / Pedestrian Injury  Exposure of live services  Work at Height – falls, objects dropped |  | Isolation/screening of area to be demolished  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Obtain Asbestos Register from the client.  Asbestos Audit to be completed (where required)  Asbestos Clearance Certificate to be obtained (where required)  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Obtain engineering approval prior to demolition  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  Evidence of training / competence  PPE as per SWMS  Follow all work at height regulations Hierarchy of Controls and have available on site for reference. | Isolate  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Substitute  Isolate  Administration  Administration  PPE |  |  |  |  |  |
| 2.4 | Surveying  Building and Land |  | Vehicle Collisions  Pedestrian Injury  Work at Height – falls, objects dropped |  | Ensure appropriate signage at entry.  Visitors sign in / sign out book.  Site Specific Induction or accompany on site at all times  Adhere to minimum PPE requirements  Follow all work at height regulations Hierarchy of Controls and have available on site for reference. | Administration  Administration  Administration  PPE |  |  |  |  |  |
| 2.5 | Bulk Excavation, excavation & piling |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Contaminated Soil  Vehicle / Plant Collisions  Plant failure Contaminated Waste Disposal  Client / Public / Pedestrian Injury  Exposure of live services  Dust  Excavation collapse  Falls from height (from ground level to bottom of excavation)  Plant roll over |  | Dial before you dig  Barricading of area to be excavated  Implement shoring / batters / benching as per engineering advice  Maintain safe working distance of machinery from excavation  Site Specific SWMS  Site Specific Induction  Plant and equipment Pre Start checks and Risk Assessments  Obtain Soil Test Report if required  Complete Permit to Excavate  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Mark known service locations on site through use of star pickets, bunting and signage  Signage at entry and exits  Evidence of training / competence  PPE as per SWMS  Use of dust suppression (water carts)  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Follow Unexpected Finds Procedure for any suspected contamination or heritage items.  Refer to Excavation Management Procedure (C-S-MG-011) and ensure procedure is issued to Subcontractor. | Administration  Isolate  Engineer  Isolate  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Substitute  Isolate  Administration  Administration  PPE  Administration |  |  |  |  |  |
| 2.6 | Inground Service’s Sewer Stormwater Hydraulics, Electrical excavation and Install | Y | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Contaminated Soil  Vehicle / Plant Collisions  Plant failure Contaminated Waste Disposal  Client / Public / Pedestrian Injury  Exposure of live services  Dust  Excavation collapse  Falls from height (from ground level to bottom of excavation)  Plant roll over  Lifting Gear failure  Chemical Exposure  Non-Compliant Confined space works  Plant over lift/Failure SWL | 1 | Dial before you dig  Barricading of area to be excavated  Implement shoring / batters / benching as per engineering advice  Maintain safe working distance of machinery from excavation  Site Specific SWMS  Site Specific Induction  Plant and equipment Pre-Start checks and Risk Assessments  Obtain Soil Test Report if required  Complete Excavation Permit  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Mark known service locations on site through use of star pickets, bunting and signage  Signage at entry and exits  Evidence of training / competence  PPE as per SWMS  Use of dust suppression (water carts)  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Follow Unexpected Finds Procedure for any suspected contamination or heritage items.  Lifting gear 12 monthly certification Visual inspection  Chemical risk assessment SDS  Confined space permit and SWMS  Crane Lift Plan | Administration  Isolate  Engineer  Isolate  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Substitute  Isolate  Administration  Administration  PPE  Administration  Administration  PPE  Administration |  |  |  |  |  |
| 2.7 | Formwork / Falsework /  Bondec |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Formwork failure / collapse  Open penetrations |  | Barricade formwork areas to protect other trades  Site specific SWMS.  Install guardrails on formwork allowing for finished height after concrete pour.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff.  Formworker signoff.  PPE as per SWMS  Cover all penetrations | Isolate  Administration  WAH Level 1  Administration  Administration  Engineering  Administration  Administration  PPE  WAH Level 1 |  |  |  |  |  |
| 2.8 | Steel fixing & Post Tensioning |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Open penetrations |  | Barricade formwork areas to protect other trades  Site specific SWMS.  Install guardrails for work at height.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  QA signoff  PPE as per SWMS  Cover all penetrations | Isolate  Engineer  Administration  Administration  Administration  Administration  PPE  WAH Level 1 |  |  |  |  |  |
| 2.9 | Pre-cast manufacture (tilt-up) |  | Hazardous Manual Tasks  Use of power tools  Panel Failure  Noise  Vehicle / Plant Collision |  | Site specific SWMS.  MSDS & risk assessment  Test and tag all power tools  Engineering signoff/Shop drawing on site  PPE as per SWMS  Obtain Certificate of Conformity for plant operating on site.  Only trained /competent personnel  Refer to Tilt-Up & Precast Concrete Management Procedure (C-S-MG-010) and ensure procedure is issued to Subcontractor. | Administration  Administration  Administration  Engineering  PPE  Administration |  |  |  |  |  |
| 2.10 | Precast Erection |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Precast failure / collapse  Crane failure  Open penetrations |  | Barricade precast installation areas to protect other trades  Site specific SWMS.  Birth certificate to meet requirements of structural engineers approved design and shop drawings.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Certificate of conformity engineers structural steel sign off to erect precast  Only trained /competent  Ticketed personnel to operate mobile plant. Ticketed riggers to erect and install  Props to be in accordance with AS 3850 and have suitable locking device  Engineering signoff  Daily Sign Off signoff.  PPE as per SWMS  Check load limits and suitability of crane to carry out the works, Lift Plan , Crane Paperwork checks ,Lifting Gear Register, service protections  Cover all penetrations  Use only earth leakage protected supply  SDS to be submitted for all products/ chemical/substance.  Refer to Tilt-Up & Precast Concrete Management Procedure (C-S-MG-010) and ensure procedure is issued to Subcontractor.  Daily inspection of temporary bracing required to ensure stability. | Isolate  Administration  Administration  Administration  Administration  PPE  Administration |  |  |  |  |  |
| 2.11 | Concreting Placement &  Finishing |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Concrete failure / collapse Burns  Open penetrations |  | Barricade concrete areas to protect other trades  Site specific SWMS.  Ensure guardrails on formwork allowing for finished height after concrete pour.  Follow all work at height regulations Plant and equipment inspections.  Pipe thickness testing monthly  Only trained ticketed personnel to operate mobile plant  Concrete wash out area to be established or waste tray removal. Documented pump clean out procedure  Test and tag all power tools  Engineering signoff prior to allowing loads to be placed on slabs/decks if required.  PPE as per SWMS  Cover all penetrations | Isolate  Administration  Administration  Administration  Administration  Administration  PPE |  |  |  |  |  |
| 2.12 | Blockwork/Brickwork |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Blockwork./brickwork failure / collapse  Burns |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  PPE as per SWMS | Isolate  Administration  Administration  Administration  Administration  Administration  PPE |  |  |  |  |  |
| 2.13 | Structural Steel Erection |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Precast failure / collapse  Crane failure  Open penetrations |  | Barricade steel installation areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Engineering signoff.  Daily Erection signoff.  PPE as per SWMS  Check load limits and suitability of crane to carry out the works  Crane Paperwork , Lift Plan , Lifting Gear Register, height restriction plan. Cover all penetrations | Isolate  Administration  Administration  Administration  Administration  PPE  Administration |  |  |  |  |  |
| 2.14 | Mechanical |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns  Open penetrations  Working adjacent to cooling towers – legionella exposure |  | Isolation/Tag Out / Lock Out of Services/Procedures  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Cover all penetrations  Obtain regular cooling tower test reports | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  Administration |  |  |  |  |  |
| 2.15 | Fire Services / Sprinkler Fitting |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns  Open penetrations  Existing Client fire services isolated not communicated |  | Isolation/Tag Out / Lock Out of Services/Commissioning Plan – communicated to Client and Fire Brigade where services are existing.  Site Specific SWMS  Site Specific Induction  Plant and equipment checks and Risk Assessments  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations and have available on site for reference.  Cover all penetrations | Isolate  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  Engineer |  |  |  |  |  |
| 2.16 | Electrical Services |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns  Open penetrations |  | Isolation/Tag Out / Lock Out of Services/Commissioning Plan  Isolation Permit required  Ensure all switchboard enclosures are fitted with a clear Perspex sheet located on the front panel upon opening the switchboard door  Substitution of product  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations and have available on site for reference.  Cover all penetrations  Refer to the Electrical Management Procedure (C-S-MG-007) and ensure procedure is issued to Subcontractor. | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  WAH Level 2 |  |  |  |  |  |
| 2.17 | Hydraulic Services |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion (gas)  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns  Open penetrations  Biological hazards – sewer exposure |  | Isolation/Tag Out / Lock Out of Services  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Cover all penetrations (including shafts)  Workers to have been inoculated prior to arrival on site | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  WAH Level 2 |  |  |  |  |  |
| 2.18 | Carpentry |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials (ie MDF) |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration |  |  |  |  |  |
| 2.19 | Lifts/Escalators Installation |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns  Exposure to Hazardous Materials  Open lift shaft |  | Isolation/Tag Out / Lock Out of Services  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Barricade lift shafts with caging to prevent falls  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  MSDS | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  Administration |  |  |  |  |  |
| 2.20 | Roof Installation including soffit, services, installation and metal roof sheeting |  | Noise / Vibration,  Hazardous Manual Tasks  Electrocution  Exposure to temperatures  Exposure to Hazardous Materials (incl. asbestos)  Vehicle / Plant Collisions Fire & Explosion  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Open penetrations  Access / Egress  Use of power tools  Burns  Exposure to Hazardous Materials |  | Isolation/Tag Out / Lock Out of Scaffold Access  Substitution of product  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  MSDS  Roof to be fully encapsulated with roof hand rail system and signed off by competent person.  Complete Roof Access Register Daily  Pre Roof Access Checklist to be complete  Crane Lift Plans  Engineer Sign off on Load Plan overall structural engineers prior to loading roof | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  Administration  Administration |  |  |  |  |  |
| 2.21 | On-site Commissioning or Isolation of Plant |  | Electrocution  Explosion of services under pressure  High pressure water  High pressure gas  Noise / Vibration,  Hazardous Manual Tasks  Exposure to temperatures  Exposure to Hazardous Materials  Vehicle / Plant Collisions Fire & Explosion  Client / Public / Pedestrian Injury  Exposure of live services  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Burns  Exposure to Hazardous Materials |  | Isolation/Tag Out / Lock Out of Services/Commissioning / Isolation Plan  Substitution of product  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Physically mark known service locations on site  Signage at entry and exits  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  MSDS | Isolate  Substitute  Administration  Administration  Administration  Administration  Administration  Isolate  Administration  Administration  PPE  Administration  Isolate  Administration |  |  |  |  |  |
| 2.22 | Plasterboard Acoustic Wall & Ceiling (moved from 47) |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials  Hazardous Manual Tasks |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Only Work off Platform Ladders | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Administration |  |  |  |  |  |
| 2.23 | Glazing and Shopfronts |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration |  |  |  |  |  |
| 2.24 | Terrazzo/ Paving / Stone |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.25 | Carpet/Vinyl/  Epoxy |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.26 | Floor/Wall Tilling/ Waterproofing |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.27 | Joinery |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area  Platform ladder use only | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.28 | Coolrooms/  Freezers |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials  Exposure to extreme temperature |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area  Appropriate PPE as required (refer item 3.3). | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer  PPE |  |  |  |  |  |
| 2.29 | Panelling |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.30 | Doors/ Hardware |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.31 | Rendering |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.32 | Signage  (Directional and Statutory) |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.33 | Painting |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Burns  Exposure to Hazardous Materials |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Plant and equipment inspections.  Test and tag all power tools  Engineering signoff  Building inspector signoff.  PPE as per SWMS  MSDS and Chemical Risk Assessments  Ventilate the work area | Isolate  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Engineer |  |  |  |  |  |
| 2.34 | Scaffolding |  | Materials dropped from height  Work at height – Falls  Hazardous Manual Tasks  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Scaffold collapse  Scaffold overload |  | Site specific SWMS.  Only those appropriately trained to erect, change and dismantle.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Scaff tag system to be used.  Scaffold handover certificate obtained from qualified scaffolder.  Appropriate storage on site.  Monthly Scaffold Inspection Checklist to be completed  Signage on all incomplete scaffold  Maximum Load signage on all scaffold  Scaffold fit for purpose | Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Engineering |  |  |  |  |  |
| 2.35 | Chemical, fuel or refrigerant lines |  | Explosion  Fire  Injury  Asphyxiation  Inhalation of fumes  Impact on neighbouring properties/community  Plant and property damage  Environmental pollution |  | Site specific SWMS  Isolation/commissioning plan prepared by competent person  Isolate/purge the lines  Only trained and competent personnel to be engaged  MSDS  Appropriate PPE  Emergency and rescue plan  Emergency equipment on site  Signage, barricades  Trained first aider on site  Refer to Hazardous Energy & Flammable Management Procedure (C-S-MG-015) and ensure procedure is issued to Subcontractor. | Isolation  Administration  Administration  PPE |  |  |  |  |  |
| 2.36 | Pressurised Gas |  | Explosion  Fire  Injury  Asphyxiation  Inhalation of fumes  Impact on neighbouring properties/community  Plant and property damage  Environmental pollution |  | Site specific SWMS  Isolation/commissioning plan prepared by competent person  Isolate/de-pressurise the lines  Only trained and competent personnel to be engaged  MSDS  Appropriate PPE  Emergency and rescue plan  Emergency equipment on site  Signage, barricades  Trained first aider on site  Refer to Hazardous Energy & Flammable Management Procedure (C-S-MG-015) and ensure procedure is issued to Subcontractor. | Isolation  Administration  Administration  PPE |  |  |  |  |  |
| 2.37 | Contaminated/flammable atmosphere |  | Hazardous Manual Tasks  Exposure to Contaminated Soil  Fire & Explosion  Inhalation of Dust particles  Absorption of chemicals  Burns |  | Isolation/screening of area  Site Specific SWMS  PPE as per SWMS  Signage  Excavation Permit  Air monitoring  Refer to Hazardous Energy & Flammable Management Procedure (C-S-MG-015) and ensure procedure is issued to Subcontractor. | Isolate  Administration  PPE  Administration |  |  |  |  |  |
| 2.38 | Core Holes and Penetrations |  | Injury  Use of power tools  Materials dropped from height  Hazardous Manual Tasks  Noise  Client / Public / Pedestrian interaction  Impact on services |  | Site Specific SWMS  Site Specific Induction  Obtain Certificate of Conformity for plant  Inspection of existing services  Scanning of slabs to detect presence of embedded services  Evidence of training / competence  Test and Tag tools  Barricade work areas to protect other trades  Physically mark known service locations on site  PPE as per SWMS | Administration  Administration  Administration  Administration  Administration  Administration  Isolation  PPE |  |  |  |  |  |
| 2.39 | Other: |  |  |  |  |  |  |  |  |  |  |
| **3.0** | **HEALTH SURVEILLANCE** |  |  |  |  |  |  |  |  |  |  |
| 3.1 | Use of loud equipment |  | Hearing damage  Neighbour complaints |  | Noise Hazard Identification Checklist  Noise monitoring if required  Audiometric testing every 2 years  Incorporate silencers on equipment where possible  PPE as per SWMS  Schedule noisy work for mid-day  Respite periods for noisy works  Noise Assessment and Controls in Place. | Engineer  PPE  Administration  Administration  Administration |  |  |  |  |  |
| 3.2 | Outdoor works / exposure to elements |  | Sunburn / UV exposure  Wind  Dust  Heatstroke  Wind chill  Hypothermia  Trenchfoot |  | Rotation of workforce.  Will continually assess impacts.  Provision of sunscreen.  Appropriate PPE enforces as appropriate.  Refer to Extremes of Temperature Management Procedure (C-S-MG-013) and ensure procedure is issued to Subcontractor. | Engineering  Administration  PPE  PPE |  |  |  |  |  |
| 3.3 | Working in extreme cold environments e.g. freezers |  | Shivering  Mental confusion  Hypothermia |  | Rotation of workforce  Appropriate PPE  Periodic breaks  Standby person  Trained first aider on site  Refer to Extremes of Temperature Management Procedure (C-S-MG-013) and ensure procedure is issued to Subcontractor. | Substitution  Administration  PPE |  |  |  |  |  |
| 3.4 | Use of hazardous substances  Activities causing dust (ie MDF cutting, plasterboard cutting etc) |  | Poisoning,  Eye damage,  Skin irritations,  Inhalation of fumes / dust |  | Hazardous substances and MSDS register to be kept up to date  Handling and storage as per MSDS  Chemical Risk Assessments  Trained First Aiders on site  PPE as per SWMS  Barricade Work Area | Administration  Engineer  Administration  PPE  Isolation |  |  |  |  |  |
| 3.5 | Hazardous Manual Tasks |  | Musculoskeletal Disorders |  | SWMS Verification on Manual Handling Review.  Incorporate review findings/changes into SWMS.  Use Mechanical Means where possible | Administration  Administration  Elimination |  |  |  |  |  |
| **4.0** | **GENERAL ITEMS** | | | | | | | | | | |
| 4.1 | Working at Height /  Platform Ladders |  | Falls from heights  Falling objects |  | Site specific SWMS.  Appropriate work at height training.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Provide fully encapsulated edge protection as required by Company Policy.  Fall arrest systems are not to be used on site other than in boom lifts or Scissor lifts  Testing and inspection of all equipment prior to use using  No Step Ladders are to be used on site, platform ladders are to be used only Step ladders may only be used in a confined work area where there is no other alternative | Administration  Administration  WAH Level 1  Administration  Administration  Engineering |  |  |  |  |  |
| 4.2 | Landscaping |  | Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  UV Exposure  Hazardous substances |  | Plant and equipment inspections and Risk ass  Site Specific SWMS  Site Specific Induction  Plant and equipment checks  Evidence of training / competence  Test and Tag tools  PPE as per SWMS  Barricade Work/Area When Needed  Complete Excavation Permit  Inspection of existing services drawings and rectify any inadequacies  Evidence of training / competence  Hand removal near suspected service locations prior to use of machinery.  Mark known service locations on site through use of star pickets, bunting and signage  MSDS and Haz Sub Risk ass | Administration  Administration  Administration  Administration  Administration  Administration  PPE  Isolation  Administration  Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 4.3 | Roadworks and flexible paving |  | Exposure to Hazardous Materials  Access And Egress  Vehicle / Plant Collisions  Burns  Noise |  | MSDS and Haz Sub Risk ass  Implement Traffic Management as per Traffic Management Plan  Barricades and Signage  SWMS for works being undertaken  PPE as Per SWMS  Site Specific Induction  Evidence of training / competence | Administration  Administration Isolation  PPE  PPE |  |  |  |  |  |
| 4.4 | Dock Levellers / wheel grabs/ stop go lights/ shrouds |  | Electrocution  Noise / Vibration,  Hazardous Manual Tasks  Mobile Plant  Exposure to temperatures  Work at height – falls, objects dropped  Open edges  Access / Egress  Use of power tools  Burns  Exposure to Hazardous Materials |  | Isolation/Tag Out / Lock Out of Services  Site Specific SWMS  Site Specific Induction  Plant and equipment checks and Risk Assessments  Evidence of training / competence  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Hot Works Permit  MSDS And Haz Sub Risk assessment | Isolation  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Isolation  Administration  Administration  Administration |  |  |  |  |  |
| 4.5 | Solar Panels |  | Electrocution  Noise,  Hazardous Manual Tasks Mobile Plant  Exposure to weather  Work at height – falls, objects dropped  Access / Egress  Use of power tools  Exposure to Hazardous Materials |  | Plant and equipment checks and Risk Assessments  Evidence of training / competence  PPE as per SWMS  Test and Tag tools  Barricade work areas to protect other trades  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Full encapsulation before accessing Roof  MSDS And Haz Sub Risk ass  Pre Access Checklist and Roof Access Permits as applicable | Isolation  Administration  Administration  Administration  Administration  Administration  PPE  Administration  Isolation  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 4.6 | Sweeping/ Scrubbing |  | Mobile Plant  Access and Egress  Vehicle / Plant Collisions  Noise |  | Implement Traffic Management as per Traffic Management Plan  SWMS for works being undertaken  PPE as Per SWMS  Site specific induction plant and equipment checks and risk assessments |  |  |  |  |  |  |
| 4.7 | PIR Panel Installation |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse  Exposure to Hazardous Materials  Hazardous Manual Tasks |  | Barricade work areas to protect other trades  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Provide edge protection as required by legislation.  Work at Height Permit.  Testing and inspection of all equipment prior to use using Safety Harness Pre-start Checklist  Plant and equipment inspections and Risk Ass  Test and tag all power tools  PPE as per SWMS  MSDS and Haz Sub Risk ass  Ventilation when Required  Lifting frames engineering sign off weight restriction | Isolate  Administration  Administration  Isolate  Administration  PPE  Administration  Engineer  Isolate  Administration  PPE  Administration  Engineering |  |  |  |  |  |
| 4.8 | Welding and use of lasers |  | Radiation  Burns |  | Hot Works Permit  Site specific SWMS.  Barricading / Shields  No go zones enforced  PPE as per SWMS  Safe use of lasers as per AS 2211 & AS 2397 | Administration  Isolate  Isolate  PPE |  |  |  |  |  |
| 4.9 | Work in Confined Spaces |  | Entrapment  Hazardous manual tasks  Atmospheric / Chemical / Substance inhalation / absorption,  Extreme Temperature  Fire  Explosion  Engulfment  Asphyxiation |  | Site specific SWMS required including an emergency rescue plan.  Only those trained in confined space works may enter.  Confined Space Permit and signage required  Equipment must be calibrated as required by manufacturer.  Emergency rescue equipment and standby person available  Refer to Confined Space Management Procedure (C-S-MG-016) and ensure procedure is issued to Subcontractor. | Administration  Isolate  Administration  Administration |  |  |  |  |  |
| 4.10 | Incorporating and communicating design changes during the project |  | Changes in design adversely affects safe building methods  Not incorporating approved design changes  Not effectively communicating approved design changes to relevant parties |  | Design Risk Assessment  Design Change Requests evaluated for safety impact where necessary.  SWMS Reviews  Toolbox Meetings  Outstanding design risks incorporated in this risk assessment | Administration  Administration  Administration |  |  |  |  |  |
| 4.11 | Using material chutes for the removal of material from multi-storey structures |  | Falling Objects  Material chute failure |  | Daily plant checks to be completed.  Inspection of works prior to commencement  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Barricading.  No go zones with appropriate signage.  Traffic and pedestrian mgt as required.  Only ticketed operators as applicable. | Administration  Administration  Administration  Isolate  Isolate  Isolate  Administration |  |  |  |  |  |
| 4.12 | Erecting or using a hoist on site |  | Hoist collapse  Falling objects  Contact with overhead obstructions / services |  | Daily hoist checks to be completed.  Inspection of works prior to commencement  Site specific SWMS.  Follow all work at height regulations Hierarchy of Controls and have available on site for reference.  Barricading.  No go zones with appropriate signage.  Traffic and pedestrian mgt as required.  Only ticketed operators as applicable. | Administration  Administration  Administration  Isolate  Isolate  Isolate  Administration |  |  |  |  |  |
| 4.13 | Racking Installation |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Noise  Access / Egress  Vehicle / Plant Collisions  Client / Public / Pedestrian Injury  Use of power tools  Structure collapse |  | Barricade work areas to protect other trades  Site specific SWMS. Site specific induction  Follow all work at height regulations Hierarchy of Controls and have available on site for reference. Testing and inspection of all equipment prior to use using Safety Harness Pre-start Checklist  Plant and equipment inspections and Risk Ass  Test and tag all power tools  PPE as per SWMS  MSDS and Haz Sub Risk ass | Isolate  Administration  Administration  Administration  Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 4.14 | Specific Client / other stakeholder WHS requirements |  | Failure to identify specific Client / other stakeholder WHS requirements and implement |  | Review of Head Contract  Client Meetings  Stakeholder meetings as required  Training and implementation of CIP WHS Management System  Auditing Inspections | Administration  Administration  Administration  Administration  Administration |  |  |  |  |  |
| 4.15 | End user height safety |  | Work at height – falls, objects dropped  Hazardous Manual Tasks  Access / Egress  Vehicle / Plant Collisions  Use of power tools  None competent operator |  | End user review/Design Risk Assessment roof area full encapsulation at all times stretch access sign in and out fall arrest system  Training of end user roof safety system  Barricade work areas to protect other trades  Site specific SWMS. Site specific induction  Follow all work at height regulations Hierarchy of Controls and have available on site for reference. Testing and inspection of all equipment prior to use using Safety Harness Pre-start Checklist  Plant and equipment inspections and Risk Ass  Test and tag all power tools  PPE as per SWMS  MSDS and Hazardous Substances Risk ass and chemical exposure |  |  |  |  |  |  |
| 4.16 | Other: |  |  |  |  |  |  |  |  |  |  |

**DETAILS OF PERSONNEL CONSULTED IN THE DEVELOPMENT OF THIS PROJECT PRELIMINARY RISK ASSESSMENT:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trade** | **Risk No.** | **Name** | **Company** | **Signature** | **Date** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |