Designers Risk Assessment

Project: The drainage of Parish Playing Field Document Ref: GMA/GSPC/LGPF

Date: 14th December 2022

**Project Summary**

Locate underground services and carry out test digs to prove depth to the services where new drains will be installed over these services. Mark out development area within the site. Install a piped drainage system, detention basin and connection to existing outfall chamber / stream.

Remove arisings to the easement area and shape. Supply and spread sports sand top-dressing material. Seeding, establishment, reinstate haul route and easement areas and seed, maintenance to handover including temporary irrigation. Install sand grooves the following summer.

Anticipated mobilisation date – Autumn/Winter 2023

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref  No | Activity /  Element | Potential  Hazard | Population  At Risk | Risk Rating | | | Action at Design Stage | Action Taken | | Possible Control Options  (Contractors) |
| L | S | R | By | Date |

1. **Sitewide**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.1 | Deliveries to site | Site access/egress and potential damage to vehicles and harm to students, pedestrians and  site workers. | Public Contractor | H | M | H | The site is adjacent to a busy school so careful control of delivery times and separation of site traffic from the public as far as possible will be required. | GMA  Contractor Council |  | All deliveries and large vehicles to arrive via agreed access points during an agreed time period in accordance with site rules and avoiding school pick-up and drop- off times. |
| 1.2 | Trespass by members of the public | Unauthorised access onto site. | Public | L | H | H | Contractor zones clearly identified on Drawings. Security fencing to maintain access to as much of the remaining playing fields as possible. Work areas must be  physically separated from public. | GMA  Contractor Council |  | The site is semi secure. The site compound and all works areas must be securely fenced off. |
| 1.3 | Movement of soil and spoil | Contact with moving vehicle/ plant | Public Contractor | M | M | M | Adequate space must be allowed for to enable the manoeuvring of vehicles safely on site. All works areas located close together and fenced. | GMA  Contractor Council |  | Movement of vehicles off site to be controlled with banksmen. Site compound and wider site to have designated pedestrian routes. Mobile telephones to be used only within designated site  area. |
| 1.4 | Demolitions and general excavations | Below ground services | General public Contractor | L | H | H | Working depth has been limited to reduce risk however a services search will be required.  Hand digs over services to prove depth are required. | Contractor Council |  | Carry out a services search. Hand dig over services to prove depth. |
| 1.5 | Simultaneous activities | Conflicts of multidisciplinary activities such as use of the building | Contractor  Public | L | M | M | A strategy management document to be produced by contractor | Contractor |  | Programme works to avoid potential clashes in operations. Liaise with council as needed. |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref  No | Activity /  Element | Potential  Hazard | Population  At Risk | Risk Rating | | | Action at Design Stage | Action Taken | | Possible Control Options  (Contractors) |
| L | S | R | By | Date |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.6 | General operations on site | Fire or other emergency | Public Contractor | M | H | H | Fire escape strategy to be in accordance with established site policies. | GMA  Contractor |  | Contractor to identify escape routes to safe areas and establish muster points for each section of the works. H&S notices to be provided on site to advertise fire  strategy and congregation points. |
| 1.7 | Infections or risks from handling soil | Infections via skin contact  Lung or respiratory disease | Contractor  Contractor | H  M | M  M | M  M | Ensure risk assessments include appropriate PPA for site workers. Minimise soil movements. | GMA  Contractor |  | Ensure suitable PPA is issued to site staff and used by site staff including gloves and dust masks as required. |
| 1.8 | Weill’s Disease and other water related infections | Infection from dirty water | Contractor | H | H | M | Minimise working in established water courses or drains. | GMA  Contractor |  | Ensure suitable PPA is issued to site staff and used by site staff including gloves and ensure strict  personal hygiene for site workers including hand washing. |
| 1.9 | Working on the floodplain | Flood risk, pollution, risk of drowning | Contractor | L | H | L | Locate the majority of the works away from the floodplain. | GMA  Contractor |  | Register for EA flood warnings and take action during flood alerts.  Store all equipment and materials away from the floodplain. |
| 1.10 | Working close to the river | Drowning | Contractor | L | H | L | Access to the river is restricted to one location only. | GMA  Contractor |  | No lone working by river. Staff must be able to swim. Flotation device should be available and at hand when  working in the river. |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref  No | Activity /  Element | Potential  Hazard | Population  At Risk | Risk Rating | | | Action at Design Stage | Action Taken | | Possible Control Options  (Contractors) |
| L | S | R | By | Date |

1. **Working space / working platforms**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2.1 | Working in confined Spaces | Entrapment | Contractor | M | M | H | All manholes are less than 1.2 meters depth. Pit sides will need securing. | GMA |  | Certificates for qualifications of working in confined spaces to be supplied with contractor method  statements |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref  No | Activity /  Element | Potential  Hazard | Population  At Risk | Risk Rating | | | Action at Design Stage | Action Taken | | Possible Control Options  (Contractors) |
| L | S | R | By | Date |

1. **Materials / substances / components**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3.1 | Manual handling of materials | Manual handling/ musculoskeletal injuries | Contractor | H | L | M | Materials as far as possible have been specified that are within acceptable safe limits for manual handling. | GMA |  | Contractor to allow for requirements for specialist lifting  / handling equipment. 2 no. operative required for manual handling of materials in excess of 20kg. |
| 3.2 | Wet mortar/concrete | Skin diseases | Contractor | M | M | M | Concrete used for haunching, foundation slabs and effecting water-tight seals. | GMA |  | Ensure enforcement of task- appropriate PPE |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref  No | Activity /  Element | Potential  Hazard | Population  At Risk | Risk Rating | | | Action at Design Stage | Action Taken | | Possible Control Options  (Contractors) |
| L | S | R | By | Date |

1. **Earthworks**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4.1 | Initial soil  cultivation and grading works | Ground contamination | Contractor | L | L | L |  | GMA  Contractor |  | If any contaminated or suspected  contaminated land found inform CA and Client immediately. |
| 4.2 | Excavations for trenches | Instability of earth | General public  Contractor | L | M | M | Generally simultaneous back- filling. | GMA  Contractor |  | Minimal risk due to simultaneous  backfilling and generally shallow depths |
| 4.3 | Excavations for trenches | Services | Contractor | L | H | H | Conduct services search | GMA  Contractor |  | Conduct services search. Identify locations of services underground and mark on  surface, hand-dig to prove depths  and adjust trench depths accordingly |
| 4.4 | Excavations for trenches | Flooding/ ground water | Contractor | L | L | L |  | GMA  Contractor |  | Begin at outfall and work up system. |
| 4.5 | Connection to new chambers | Wet concrete mortar, alkaline burns  Lifting | Contractors | M | M | M |  | Contractor |  | Enforcement of PPE Contractor to allow for  requirements for specialist lifting / handling equipment. |
| 4.6 | Exportation of soil arisings | Vehicle movement hazards | Contractors  Public | H | H | H | Clear walkways and pedestrian  route ways to be designated before works start on plans. | GMA  Contractor Council |  | Designated walkways to be agreed on site with PM. |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref  No | Activity /  Element | Potential  Hazard | Population  At Risk | Risk Rating | | | Action at Design Stage | Action Taken | | Possible Control Options  (Contractors) |
| L | S | R | By | Date |

**4.0 Earthworks cont**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4.7 | Grading of soil mounds | Vehicle movement hazards | Public  Contractor | H | H | H | Clear walkways and pedestrian route ways to be designated before works start on plans | GMA  Contractor |  | Designated walkways to be agreed on site with PM. |
| 4.8 | Installation of pipes and ducting | Manual handling/ musculoskeletal injuries | Contractor | H | L | M | Materials as far as possible have been specified that are within acceptable safe limits for manual handling. | GMA  Contractor |  | Contractor to allow for requirements for specialist lifting / handling equipment. 2 no. operative required for manual handling of materials in excess of  20kg. |