



The Maritime and Coastguard Agency

PRE-CONSTRUCTION INFORMATION PACK

Beer Coastguard Station – Garage Extension





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PRE-CONSTRUCTION INFORMATION (TENDER ISSUE) CONFIDENTIAL

PROJECT NO. 70050786

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1 INTRODUCTION

This Pre-Construction Health and Safety Information Pack has been prepared in accordance with the Construction (Design and Management) Regulations 2015. It is a document which will eventually be developed into the Construction Phase (Health and Safety) Plan by the Contractor on single Contractor projects or the Contractor appointed as the Principal Contractor for projects with more than one Contractor. Initially, it will be used to collate and summarise the information provided by the Client for use by the designers and Contractors appointed, or being considered for appointment, on the project. All those involved with the pre-construction phase have a statutory duty to comply with it and to provide the Principal Designer with any information they have which is required to keep the pack up to date.

It is the intention of the Client that the project is designed and constructed in such a way that the risks to the health and safety of all persons engaged in its construction, future use, cleaning and maintenance or using a structure designed as a workplace are eliminated or reduced to an acceptable level.

This Information Pack is to provide information only and does not form part of the Contract. The full scope of the Works, the duration of the contract and the obligations of the Contractor shall be ascertained by reference to the Contract documents read as a whole.

2 IDENTIFICATION OF ROLES

Please refer to Section 9 for contact details.

2.1 CLIENT

The Maritime and Coastguard Agency is the Client as defined under the Construction (Design and Management) Regulations 2015.

2.2 PRINCIPAL DESIGNER

The Principal Designer is WSP.

2.3 PRINCIPAL CONTRACTOR

The Principal Contractor is TBC.

The duties of the Principal Contractor are set out in Construction (Design and Management) Regulations 2015. [Note that this includes preparation of the Construction Phase (Health and Safety) Plan, prior to the commencement of works on-site].

2.4 CONTRACTOR

The Principal Contractor shall be responsible for the implementation of all safety management measures necessary for the execution of the work, and the management of all Contractors on the site. All Contractors shall comply with the Construction Phase (Health and Safety) Plan, and with all relevant legislation, regulations or codes of practice.

2.5 DESIGNER

Under the CDM Regulations, a Designer is anybody who either prepares a design or arranges for a person under his/her control to prepare a design. Whilst designers have been appointed, a Contractor may also be a designer under this definition, and therefore Regulations 9 and 10 will apply to them in the same way as it does to the architect, engineer, etc.

3 DESCRIPTION OF PROJECT

The detail below is provided to assist the Contractor but should be treated as preliminary information and not categorical.

3.1 INTRODUCTION AND BACKGROUND

The Maritime and Coastguard Agency (**MCA**) is an executive agency of the Department of Transport, United Kingdom working to prevent the loss of lives at sea and is responsible for implementing British and international maritime law and safety policy. The client owns and operates a number of coastguard stations across the United Kingdom, this specific project concerns the Beer Coastguard Station, Devon.

3.2 NATURE AND SCOPE OF THE WORK TO BE CARRIED OUT

This contract comprises the construction of a single-storey rear extension with pitched roof void space to the back of the Beer Coastguard Station. This will provide the increased clearance space needed for the storage of a new Coastguard vehicle along with a new WC and store cupboard.

3.3 LOCATION OF PROJECT AND EXTENT OF SITE

The coastguard station is situated at H M Coastguard, Common Lane, Beer, EX12 3AG. The extension is to be positioned at the rear of the building as detailed on the construction drawings.

3.4 EXISTING ENVIRONMENT, SURROUNDING LAND AND ITS USE

The existing environment of the site, surrounding land and its use may have an impact on the safety of workers on the site, or on others in the area surrounding the site.

3.4.1 ADJACENT PREMISES

The following list shows typical types of premises and their use around this construction-site. This information must be considered when control measures are formulated for construction works, i.e. will the residents cause a hazard? Is a particular group of residents more at risk due to the construction works than others? Control measures required must be recorded in the method statements or safe systems of work documentation:

- Residential – the property is party to residential properties either side. There is shared right of access to the side and rear of the MCA property which is shared between the MCA and the private residential properties. This must be considered during the construction phase of the project.
- Construction-site(s) – it is unknown at this time whether other construction work will be being carried out within the curtilage of the property.

3.4.2 EXISTING STRUCTURES

The building construction is defined by the tender drawings, but the existing building is a single storey building constructed of traditional masonry with a timber truss, tile-covered roof above. A small rear extension already exists housing the WC and a store cupboard This is also constructed of traditional masonry however has a flat roof structure above. The building is party to residential houses either side.

3.4.3 EXISTING MATERIALS STORED ON-SITE THAT MAY PRESENT A HAZARD

There are no existing materials stored on-site that may present a significant hazard. Fuel is stored on the site and should be segregated from the construction-site by the client.

3.4.4 GROUND CONDITIONS / CONTAMINATION

The site is generally surrounded by hard paving/tarmac and soft landscaping. To the rear is a sloped communal garden space on a raised level from the property. To the front the communal driveway slopes away from the property onto a public highway, Common Lane.

3.4.5 EXISTING UTILITIES

The term 'utility' means all underground services such as electricity, gas, water, storm water drain, foul sewer and telecommunication services. Buried utilities are present on-site and it shall be assumed that they are present unless and until proven otherwise. It is common knowledge that there is a public sewer within 3m of the proposed construction-site. South West Water have been approached on the matter. Reference should be made to the Appendix detailing the acceptance of construction work concerning the public sewer from South West Water.

The exact location and depth of utilities must be verified using appropriate methods by the on-site contractors, prior to ground excavations by mechanical means at any location.

The location and depth of known existing utilities may be shown on the project utility drawings but are not limited to these drawings. Copies of these record drawings are to be provided to those needing them. It should be noted that the locations shown on the drawings may not be accurate and will always require on-site verification.

Prior to commencing works on-site, it shall be the responsibility of the Principal Contractor to satisfy himself that all utilities on-site have been located, identified and marked, and disconnected or diverted as required, prior to commencing work in the area in question.

The Contractors will record details of all changes that have been carried out during diversionary/installation works, details of any additional utilities not shown on the drawings, and of actual locations of utilities if different to that shown. This information shall be forwarded to the utility owner and to the designer to be compiled as part of the 'as-built' drawings.

3.5 PROJECT PROGRAM, TIMESCALES AND PHASING

Proposed lead-in time (weeks):	TBC
Envisaged Commencement Date:	TBC
Envisaged Completion Date:	TBC
Initial Notification to the HSE:	Non-qualifying

The above timescale is as envisaged prior to tender but may be subject to change prior to the award of the contract. The Principal Contractor shall confirm that the Works and associated phasing can be achieved within their actual programmed timescale, without prejudice to health and safety aspects of the contract.

3.5.1 PHASING OF WORKS

At this point it is not envisaged that phasing of the works is necessary due to site location and expected duration of the programme.

3.6 SITE ACCESS, COMPOUND, AND STORAGE

3.6.1 SITE COMPOUND

The locations of the site compound, area for materials storage and welfare facilities shall be arranged by the Principal Contractor and detailed in the Construction Phase (Health and Safety) Plan.

The Principal Contractor shall provide and maintain appropriate welfare facilities. Details shall be provided in the Construction Phase (Health and Safety) Plan.

Potential positions for the site compound, area for materials storage and welfare facilities are to be agreed and signed off by the Client. The arrangement of the accommodation is to leave all roads clear of obstruction. Contractors and visitors to avoid usage of resident parking spaces.

3.6.2 SITE ACCESS

The Principal Contractor shall determine details of safe access and egress, avoiding risk to others. Also refer to Section 7 Traffic Management.

It is imperative that there is access and egress of the Coastguard emergency vehicle during construction. The front of the garage area is not to be restricted.

3.6.3 STORAGE AND DISTRIBUTION OF MATERIALS

Materials, plant and equipment shall be stored with due regard to the risks posed to pedestrians, vehicle traffic and site personnel. Where the risk of interference is high, compounds shall be constructed to provide a secure enclosure.

Only the minimum quantity of hazardous substances will be permitted to be stored on-site in properly constructed and labelled containers to reduce potential environmental impacts and possible harm. Appropriate methods of containment for accidental leakage shall be implemented (e.g. bunding of oil storage). Materials and spoil storage areas shall be detailed in the traffic management plan.

3.6.4 TEMPORARY SERVICES/WELFARE FACILITIES

The Principal Contractor shall provide and maintain appropriate welfare facilities. Details shall be provided in the Construction Phase (Health and Safety) Plan.

4 INTERFACES

The Principal Contractor shall, both prior to and during the work activities, identify any issues where other parties may interface with the work activity. Co-operative measures will be introduced to ensure that such interfaces do not import risk.

The following interfaces have been identified.

Reference No	Description	Comment
Local Authority	East Devon District Council	
Water Authority	South West Water	
Gas Authority	Wales and West	
Electrical Supply Authority	WPD	
Fire Authority	Devon and Somerset Fire and Rescue	

Please refer to Section 9.4 for contact details.

5 EXISTING DRAWINGS AND REPORTS

Number	Title	Rev/Date
70050786-BEER10	EXISTING GENERAL ARRANGEMENT & DEMOLITION PLAN	P1 02/06/20
70050786-BEER11	PROPOSED GENERAL ARRANGEMENT REAR EXTENSION	P2 11/06/20
70050786-BEER12	REAR EXTENSION CONSTRUCTION DETAILS INCLUDING M&E LAYOUT	P2 11/06/20

6 RESTRICTIONS AFFECTING THE PROJECT

There are many restrictions that may affect the Works on this project, some of which may only exist during particular phases of the work. The Contractors shall identify all restrictions and the details of methods of work required to avoid conflict with them shall be recorded in the Construction Phase (Health and Safety) Plan.

6.1 POTENTIAL RESTRICTIONS

The following is a non-exhaustive list of potential restrictions that may occur. Particular restrictions relevant to the Works shall be identified during the risk assessment process.

- Hours of work e.g. noisy works, residential area.
- Maintenance of vehicular (including emergency services) routings and pedestrian access;
- Programme e.g. windows for closure of road/utility/canal etc.;
- Environmental issues e.g. to do with construction processes required; contaminated land or materials to be removed;
- Hot works may be restricted due to adjacent premises. This should be reflected in the hot works permit system used on the site.

6.2 IDENTIFIED RESTRICTIONS

The following restrictions have been identified, and apply to this contract:

6.2.1 RESTRICTIONS ON ACCESS

The site is accessed by a public highway. Parked vehicles will be to the front of the property where a shared carpark is situated. Access up to the property for large vehicles will be restricted due to the nature of the inclining driveway and turning circle at the top. Included in the traffic management plan the contractor should identify an appropriate method for materials being delivered to site. The contractor should also consider widths of public highways approaching the site for goods and trades vehicles.

6.2.2 RESTRICTIONS ON THE WORK SITE

Prior to commencing works on-site, it shall be the responsibility of the Principal Contractor to satisfy him/herself that all utilities on-site have been located, identified, disconnected, and diverted as required, prior to commencing work in the area. For further details, refer to Section 3.4.5 above. As mentioned in Section 3.4.5 the public sewer has been identified within 3m of the construction-site.

An accessible height restriction exists through the shared right of access between the MCA property and neighbouring private home because of a low external ceiling.

Party Wall notices were served on the two properties neighbouring the coastguard station. Both neighbouring property owners responded to the notices giving approval for progression of excavations within 3m of their property's foundations. The contractor should satisfy himself with the depth of the neighbouring foundations before any excavations for the new extension commence.

6.2.3 RESTRICTIONS ON WORKING HOURS

Normal working hours will be as set out in the contract documents.



Works shall comply with the conditions and restrictions contained within the directions issued from time to time by the associated local authorities, together with any additional restrictions contained within the contract document.

6.2.4 ENVIRONMENTAL IMPACTS

The Contractor shall use his best endeavours to reduce potentially adverse environmental impacts so far as reasonably practicable. Actions to achieve this shall include:

- Minimizing noise, dust and vibration from work activities
- Minimizing waste and re-using materials where practicable
- Minimizing the effect of disturbance on mature trees
- Segregation and controlled disposal of special waste
- Appropriate standards of behaviour by on-site personnel
- Minimizing mud on the highway
- Other environmental impacts that are identified throughout the works shall be assessed by the Contractor for adequacy of controls as they arise

6.2.5 NOISE/DUST/VIBRATION

The Contractor shall ensure noise/dust/vibrations are kept to a minimum. The Principal Contractor shall determine methods and processes of monitoring and control. This shall be detailed in the Construction Phase (Health and Safety) Plan.

Noise emissions on-site shall comply with BS 5228 Noise Control on Construction-sites. The Principal Contractor is to ensure that overall noise levels are maintained at an acceptable level.

7 TRAFFIC MANAGEMENT

The traffic management plan shall be drawn up by the Principal Contractor and agree with the resident's requirements as set out by the client.

- A traffic management plan to ensure safe movements and interactions between vehicles and pedestrians, both on and adjacent to the site shall be complied with by the Contractor. It shall cover all expected work activities, delivery and storage areas, and it shall be expanded and / or amended to cover new or altered activities as they arise.
- The Principal Contractor shall produce a detailed traffic management plan required for this work in accordance with the contract document for inclusion in the Construction Phase (Health and Safety) Plan.
- The traffic management plan shall also provide for the requirement that the entrances and roads are kept clean and clear of obstructions, and prevent the spillage or deposit of clay, rubble or other debris on the entrance and other roads throughout the contract period.
- The Principal Contractor shall be responsible for the design and implementation of all traffic safety management arrangements within the site and any affected areas outside of the site. He shall also be responsible for all associated consultations and for obtaining the necessary approvals for the arrangements.
- It is the Principal Contractor's responsibility to ensure that the traffic management plan is acceptable to the local authority responsible for the road in question.

8 SITE WIDE ELEMENTS

The following health and safety issues relate to the site wide elements for which control measures are required by the Principal Contractor.

8.1 SITE WELFARE FACILITIES

The Principal Contractor has been allowed the use of the Coastguard office on the site. Any other required welfare facilities shall be provided in accordance with the CDM Regulations Schedule 2 by the Principal Contractor. As the WC is down or demolition as part of the works the Principal Contractor should provide these facilities for their own use during the course of the works. These shall be maintained and upgraded as necessary throughout the duration of the contract.

8.2 CO-ORDINATION OF TRAFFIC/PEDESTRIANS

The Principal Contractor shall ensure that pedestrians and traffic are segregated so far as reasonably practicable on the site. The Principal Contractor will provide a banksman for all vehicle movements on-site.

8.3 SITE ACCESS/EGRESS POINTS

The Principal Contractor is responsible for controlling access and egress to the site where site traffic is involved. Free movement of the neighbouring properties residents and visitors is always to be allowed for.

8.4 REMOVAL OF DEBRIS/RUBBLE ETC

The Principal Contractor shall arrange for regular removal of rubbish to authorised tips.

8.5 EMERGENCY VEHICLE ACCESS

Access will be required to adjacent properties at all times. Full fire-fighting access must be maintained.

8.6 STORAGE AREA

The Principal Contractor shall arrange for safe storage of all materials on the site.

8.7 DELIVERY AND POSITIONING OF PLANT, EQUIPMENT, AND MATERIALS

The Principal Contractor is responsible for planning and organising the positioning and movement of plant, equipment and materials across the site.

8.8 IDENTIFICATION AND REMOVAL OF ANY HAZARDOUS MATERIAL

Known hazards are described in this document, but other hazards may arise during the works. The Principal Contractor shall assume that all unknown materials discovered are potentially hazardous and seek advice before continuing. The Principal Contractor is responsible for arranging the safe removal and disposal of all such materials apart from those noted as the client's responsibility.

9 COMMUNICATION

Ongoing communication between all parties is a key element to maintaining safety. Any information that is relevant to other parties should be shared. If in doubt, tell all other parties.

The Principal Contractor shall arrange meetings at regular intervals (as appropriate to the stage of the works) to discuss issues that affect safety. Any (major) design changes should be discussed at these meetings.

9.1 CONCERNS

Current concerns in relation to health, safety or welfare shall be communicated directly between the Contractors and the Principal Contractor/Site Safety Manager. Ongoing concerns will be communicated through the site meetings.

9.2 AUDIT OF PROCESSES

The Principal Contractor will undertake planned site safety inspections to supplement those undertaken by the Contractor's personnel. The frequency and timing of inspections will be determined by the level and nature of work activity.

Inspections shall include a sample audit of standards of safety management processes undertaken by the Principal Contractor in compliance with this plan.

9.3 SITE INSPECTIONS

The Principal Contractor is responsible for conducting site inspections to ensure that safe working practices are maintained. Records shall be kept of the inspections.

An agreed schedule of inspections shall be included in the Construction Phase (Health and Safety) Plan.

9.4 CONTACT LIST

Role	Duty Holder	Contact Person	Position	Contact Details
Client	MCA	Gail Robertson	Head of Estates Projects	Gail.robertson@mcga.gov.uk 020381 72481 07785 925805
Principal Designer Project Manager	WSP	Bradley Smith	Project Manager	07944304907 01179 302099 Bradley.smith@wsp.com



Principal Designer Project Manager	WSP	Matthew Cox	Senior Project Manager	07876748057 01179 306432 Matthew.cox@wsp.com
Principal Contractor	To be appointed			

9.5 ADDITIONAL PROJECT CONTACTS

Role	Contact Person	Position	Contact Details
Sub-contractors	To be appointed by the PC.		

9.6 RECORDS

When requested, the Principal Contractor shall provide, or make available for inspection any information regarding health, safety or welfare on the project. Such information may include:

- Accident/incident statistics and normalizing data
- Accident/incident reports
- Site safety reports
- Method statements
- Details on the implementation of the Construction Phase (Health and Safety) Plan

9.7 DISPLAY OF NOTICES

The following list gives the Principal Designer's recommendations for notices to be displayed prominently in the site offices:

- The major accident / emergency plan
- Emergency procedures and contact numbers
- The site rules
- Hazard warning signs
- Access restriction signs/pedestrian and traffic routing

9.8 RE-DESIGN WORK, NEW DESIGN WORK

The Principal Contractor shall inform the Principal Designer of any proposed re-design or new elements of design required before that particular work package commences.

10 HEALTH & SAFETY FILES

10.1 EXISTING HEALTH & SAFETY FILE

No Health and Safety or Operation and Maintenance file for this project currently exists.

10.2 DEVELOPED HEALTH AND SAFETY FILE FOR THIS PROJECT

Throughout the pre-construction phase of the project the Principal Designer will commence the Health and Safety File, all Contractors and designers are responsible for ensuring that all their relevant information for the Health and Safety File is prepared and handed over to the Principal Designer for inclusion in the File. Similarly, the Principal Contractor shall forward any relevant information they possess to the Principal Designer for inclusion in the Health and Safety File. The Principal Designer will pass the completed Health and Safety File to the Client at completion of the project. However, if the Principal Designer's appointment ends before the project completion, they will pass the partially completed file to the Principal Contractor and the Principal Contractor will be responsible for completion of the File and its onward transmission to the Client.

Information contained in the file needs to include that which will assist persons carrying out construction work on the structure at any time after completion of the current project and could include:

- Drawings, calculations and plans used and produced throughout the demolition and construction process along with the design criteria
- General details of the construction methods and materials used
- Details of the structure's equipment and maintenance facilities
- Maintenance procedures and requirements for the structure
- Details of the location and nature of utilities/services and their maintenance/isolation, including emergency and fire-fighting systems, equipment, routes, procedures etc.
- Details of hazardous substances and safety data sheets
- Load bearing details – retaining walls, piling, floors, walls, trusses and thrust blocks etc.
- Foundations, crane bases, etc.
- Archaeological data relating to health and safety issues

All information shall be provided both in hard copy and electronically (e.g. USB stick or File Transfer). Initial "red line" drawings will be accepted provided these are legible and will be replaced by CAD drawings within a reasonable timescale. Drawings at A3 size are preferable and must be legible.

Electronic format must utilise common packages such as Microsoft Word and Excel (but not Access). Drawings and other scanned documents shall be in pdf format, and in any CAD format (e.g. DWG as requested by the client).

11 EMERGENCY ARRANGEMENTS

11.1 FIRST AID

A first aid box must be provided in the main site office, and at all mobile sites.

The Principal Contractor will be responsible for ensuring that the contents are replaced as necessary.

The name of the First Aiders and the location of the first aid box are to be posted in the mess room/canteen.

First Aid, Fire Fighting and Emergency Arrangements

The Principal Contractor shall assess the site to determine the first aid and firefighting requirements.

11.2 EMERGENCY ASSISTANCE

The following are suggestions for telephone numbers and action plans to be displayed on the site notice board.

- Emergency telephone numbers
- Major accident - emergency plan
- Major fire/explosion – emergency plan
- On discovering a fire, the onsite fire strategy is to be followed.

11.3 REPORTING OF ACCIDENTS AND DANGEROUS OCCURRENCES

Accident reporting arrangements between the Principal Contractor, the HSE and Client are to be developed and included in the Construction Phase (Health and Safety) Plan.

All accidents MUST be reported to the Principal Contractor for inclusion in the accident book. Any RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013) reportable accidents/dangerous occurrences will be investigated and a report submitted to the Health and Safety Executive by the Principal Contractor, as required.

The Contractor shall ensure that all current legislation with particular reference to the Health & Safety at Work etc. Act 1974 is implemented in spirit as well as the letter of the law.

12 SPECIFIC SITE RULES

Establish and display clear rules and procedures for all visitors to the site. The Principal Contractor will be required to provide detailed site rules within the Construction Phase (Health and Safety) Plan in addition to those specified by the client, based on his own judgement of the project. These should include:

- CSCS identification
- Certificates of competence
- Site induction
- Accident reporting
- Personal protective equipment
- Permits to Work
- Site attendance log
- Site diary

12.1 CLIENT SITE RULES

The following rules will be incorporated by the Principal Contractor into the Construction Phase (Health and Safety) Plan (a copy of which shall be kept on-site at all times):

- Tools, materials etc. are not to be left unattended
- Site offices, accommodation and welfare together with the compound to be secure at all times.
- All waste must be stored in covered skips. No waste is to be burned on the site
- The playing of radios, personal CD players etc. will not be permitted
- Smoking will only be allowed in designated areas
- Designated personal protection equipment will be worn at all times
- Permits to work will be required
- There will be no horse play

13 THE DESIGN

13.1 CONSTRUCTION AND HAZARDOUS MATERIALS

13.1.1 SUBSTANCES HAZARDOUS TO HEALTH – DURING CONSTRUCTION

The Principal Contractor shall continually monitor the project and ensure that substances hazardous to health are identified, along with the appropriate control measures.

Material safety data sheets shall be obtained for all substances hazardous to health in use as part of this project. All Contractors shall ensure the method of work, storage and disposal of this material is compatible with the requirements stated in the datasheet, and industrial best practice. A method statement shall be prepared, used and kept for the materials/substances in use.

Substances Hazardous to Health – during the use of the building or future maintenance / construction work

The Principal Contractor shall ensure that material safety data sheets are obtained for all substances hazardous to health, which are to be installed or are discovered in the structure as part of this project, for inclusion in the Health and Safety File.

Potential Substances and Materials that may be present

The following list is a non-exhaustive list of substances and materials that may be present:

- Unrecorded service installation
- Asbestos (reference R&D survey)
- Hazardous substances (dusts, solvents, gases, acids, alkalis, etc.)
- Contaminated soil

13.2 CONSTRUCTION RISK MANAGEMENT

It is the policy of the client to attach the greatest importance to health and safety of all persons employed on the project, and directly affected by the works. The project will be constructed, so far as is reasonably practicable, in such a way that the risk to health and safety of all persons engaged in, or affected by its construction, use, maintenance and demolition are eliminated or reduced to an acceptable level under current health and safety legislation and good practice.

Method statements must be developed by the Principal Contractor and Contractors to manage and control hazards identified, see section 13.4 for those identified to date. The Principal Contractor and Contractors must carry out additional risk assessments and develop method statements as necessary throughout the project. The resultant method statements or safe systems of work should be documented.

The method statement provided must:

- Inform the reader of the task and the associated risks
- Inform the reader of what precautions are to be taken when faced with those risks
- Inform the reader of who will provide those precautions
- Inform the reader of the necessary plant, materials and equipment that must be utilised

It is important that unplanned situations or activities that have not been previously assessed, but that may give rise to risk, are assessed before work is started.

13.3 CONSTRUCTION RISKS - SUMMARY

The following is a summary of the type of risk activity associated with this project.

- Work at height
- Excavation work
- Wiring electrical/controls circuits
- Working around residents and tenanted areas.

The following health and safety issues have not yet been resolved and control measures are required from the Principal Contractor/Contractor.

- Working around utility services equipment
- Working at height
- Interface with the public/unauthorised access
- Objects/materials falling
- Deep excavation

13.4 SIGNIFICANT DESIGN ASSUMPTIONS

- Uninterrupted access to the rear and front of the garage area.
- Satisfactory negotiation of welfare, compound and access.



14 ATTACHMENTS



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