

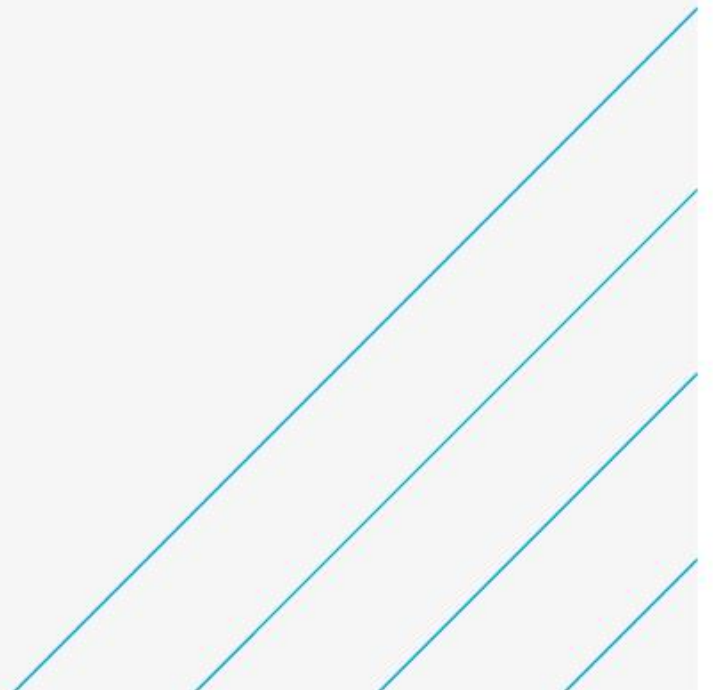
# 6033 - Steel Museum

Pre-Construction Information (PCI)

Ace Capital Projects Ltd

28th February 2024

0001



# Notice

This document and its contents have been prepared and are intended solely as information for Ace Capital Projects Ltd and use in relation to Health & safety Procedures & methods.

Blueprint Construction assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

## Document history

Document title: Pre-Construction Information (PCI)

Document reference: 0001

| Revision | Purpose description  | Originated | Checked | Reviewed | Authorised | Date       |
|----------|----------------------|------------|---------|----------|------------|------------|
| 1.0      | To Present to Client | M.C.       | A.W.    | J.L.     | ALL        | 28/02/2024 |
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## Client signoff

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Client                | Ace Capital Projects Ltd                                       |
| Project               | 6033 - Steel Museum                                            |
| Job number            | 6033-ACECP-CD-XX-HS-C-0001-Rev01- PRE-CONSTRUCTION INFORMATION |
| Client signature/date |                                                                |

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## Introduction

This pre-construction information package has been developed for the Steel Museum project as required under the Construction Design and Management Regulations 2015 (CDM). The Principal Designer has constructed the document on behalf of Ace Capital Projects Ltd. and information provided by the designers/contractors as the design progresses through the RIBA stages of work, reflecting new information about health and safety risks and how they are managed (Legislation.gov.uk, 2015).

# 1. The Project

## 1.1. Client Details

| Contact Type                  | Client                                                                                      |                                                                                                                          |
|-------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Company or Contact Name       | Address                                                                                     | Contact Information                                                                                                      |
| Project Manager               |                                                                                             |                                                                                                                          |
| Ace Capital Projects Limited. | IQ Campus University of Wales,<br>Swansea Waterfront,<br>Kings Road,<br>Swansea,<br>SA1 8EW | Contact Name:<br>Gavin Traylor<br><br>Email Address:<br><a href="mailto:g.traylor@uwtsd.ac.uk">g.traylor@uwtsd.ac.uk</a> |

## 1.2. Project Manager Details

| Contact Type                    | Project Manager                                                                          |                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Company or Contact Name         | Address                                                                                  | Contact Information                                                                                                                |
| Blueprint Construction Limited. | IQ Campus University of Wales,<br>Swansea Waterfront, Kings Road,<br>Swansea,<br>SA1 8EW | Contact Name:<br>James Lloyd<br><br>Email Address:<br><a href="mailto:1900878@student.uwtsd.ac.uk">1900878@student.uwtsd.ac.uk</a> |

## 1.3. Design Team Details

| Contact Type                    | Project Manager                                                   |                                  |
|---------------------------------|-------------------------------------------------------------------|----------------------------------|
| Company or Contact Name         | Address                                                           | Contact Information              |
| Blueprint Construction Limited. | IQ Campus University of Wales,<br>Swansea Waterfront, Kings Road, | Contact Name:<br>Ayesha Williams |

|                                 |                                                                                          |                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                 | Swansea,<br>SA1 8EW                                                                      | Email Address:<br><a href="mailto:2107932@student.uwtsd.ac.uk">2107932@student.uwtsd.ac.uk</a>                                         |
| Blueprint Construction Limited. | IQ Campus University of Wales,<br>Swansea Waterfront, Kings Road,<br>Swansea,<br>SA1 8EW | Contact Name:<br>Inderdeep Sidhu<br><br>Email Address:<br><a href="mailto:2119841@student.uwtsd.ac.uk">2119841@student.uwtsd.ac.uk</a> |
| Blueprint Construction Limited. | IQ Campus University of Wales,<br>Swansea Waterfront, Kings Road,<br>Swansea,<br>SA1 8EW | Contact Name:<br>Somma Howard<br><br>Email Address:<br><a href="mailto:2114477@student.uwtsd.ac.uk">2114477@student.uwtsd.ac.uk</a>    |

#### 1.4. Principal Designer Details

| Contact Type                    | Project Manager                                                                          |                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Company or Contact Name         | Address                                                                                  | Contact Information                                                                                                                |
| Blueprint Construction Limited. | IQ Campus University of Wales,<br>Swansea Waterfront, Kings Road,<br>Swansea,<br>SA1 8EW | Contact Name:<br>James Lloyd<br><br>Email Address:<br><a href="mailto:1900878@student.uwtsd.ac.uk">1900878@student.uwtsd.ac.uk</a> |

#### 1.5. Principal Contractor Details

| Contact Type                    | Project Manager                                                               |                                                      |
|---------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------|
| Company or Contact Name         | Address                                                                       | Contact Information                                  |
| Blueprint Construction Limited. | IQ Campus University of Wales,<br>Swansea Waterfront, Kings Road,<br>Swansea, | Contact Name:<br>Mathew Catlin<br><br>Email Address: |

|  |         |                                                                              |
|--|---------|------------------------------------------------------------------------------|
|  | SA1 8EW | <a href="mailto:2224765@student.uwtsd.ac.uk">2224765@student.uwtsd.ac.uk</a> |
|--|---------|------------------------------------------------------------------------------|

## 1.6. Extent of Existing Records and Plans

All available records and plans relating to the Site and statutory undertakers can be found within 6033-ACECP-CD-XX-RP-C-0002-Rev01\_FEASIBILITY REPORT. A combined statutory utility drawing for the site can also be found within Appendix A.

## 1.7. Statutory Authority Contacts

| Names                        | Address / Tel No / Web address                                                                                                                                                                             | Contact Name / Tel. / Email                                                                                                                                 |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Statutory Undertakers</b> |                                                                                                                                                                                                            |                                                                                                                                                             |
| British Telecom              | <a href="http://www.openreach.co.uk">www.openreach.co.uk</a>                                                                                                                                               | Network Alterations<br>Telephone: 0800 783 2023<br>Email:<br><a href="mailto:networkalterationsuk@openreach.co.uk">networkalterationsuk@openreach.co.uk</a> |
| Wales & West Utilities       | Wales & West Utilities,<br>Wales & West House<br>Spooner Close,<br>Celtic Springs,<br>Coedkernew,<br>Newport<br><br>Tel 0800 912 29 99<br><a href="http://www.wwutilities.co.uk">www.wwutilities.co.uk</a> | Email:<br><a href="mailto:dig@wwutilities.co.uk">dig@wwutilities.co.uk</a>                                                                                  |
| National Grid Electricity    |                                                                                                                                                                                                            | Email:<br><a href="mailto:plantprotection@cadentgas.com">plantprotection@cadentgas.com</a>                                                                  |
| National Grid Gas            | <a href="http://www.nationalgrid.com">www.nationalgrid.com</a><br>Tel 0800 688 588                                                                                                                         | Email:<br><a href="mailto:plantprotection@cadentgas.com">plantprotection@cadentgas.com</a>                                                                  |
| Dwr Cymru / Welsh Water      | Water services<br>Tel 0800 052 0130<br><br>Sewerage services<br>Tel 0800 085 3968<br><br><a href="http://www.dwrcymru.com">www.dwrcymru.com</a>                                                            | Email:<br><a href="mailto:developer.services@dwrcymru.com">developer.services@dwrcymru.com</a>                                                              |

|                            |                                                                                                                                                                                                                                                                        |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Western Power Distribution | <p>Emergency information<br/>Tel 0800 6783 105</p> <p>General Enquiries<br/>Tel 08006783105</p> <p><a href="http://www.westernpower.co.uk">www.westernpower.co.uk</a></p>                                                                                              | <p>The street works department</p> <p>Email:<br/><a href="mailto:WPDnewsupplieswales@westernpower.co.uk">WPDnewsupplieswales@westernpower.co.uk</a></p>                |
| Natural Resources Wales    | <p>General Enquiries<br/>Natural Resources Wales<br/>c/o Customer Care Centre<br/>Ty Cambria<br/>29 Newport Rd<br/>Cardiff<br/>CF24 0TP</p> <p>Tel 0300 065 3000<br/><a href="https://naturalresources.wales/?lang=en">https://naturalresources.wales/?lang=en</a></p> | <p>Email:<br/><a href="mailto:enquiries@naturalresources.wales.gov.uk">enquiries@naturalresources.wales.gov.uk</a></p> <p>Incident Hotline<br/>0800 807060 (24hrs)</p> |

| Other Authorities       |                                                                                                                                                                                                                                            |                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Welsh Government        | <p>Traffic Wales<br/>Traffic Management<br/>Centre M4 Junction 32<br/>(South Wales)<br/>Coryton<br/>Cardiff<br/>CF14 7EF</p> <p>Tel 0300 123 1213<br/><a href="http://www.traffic-wales.com">http://www.traffic-wales.com</a></p>          | <p>Email:<br/><a href="mailto:contact@traffic-wales.com">contact@traffic-wales.com</a></p>             |
| SWTRA (Street Lighting) | <p>South Wales Trunk Road<br/>Agent<br/>Unit 12, Llandarcy House<br/>The Courtyard,<br/>D'Arcy Business Park<br/>Llandarcy,<br/>Neath.<br/>SA10 6EJ.</p> <p>Tel 01792 3325900<br/><a href="http://www.swtra.co.uk">www.swtra.co.uk</a></p> | <p>Email:<br/><a href="mailto:enquiries@southwales-tra.gov.uk">enquiries@southwales-tra.gov.uk</a></p> |

## 2. Project Brief

### 2.1. Site Location

The scheme is located adjacent to the A48 Heilbronn Way, the current site is used as a car parking facility for the town of Port Talbot. Access into the site can be attained by exiting the A48 onto Grove Place and then onto Station Road until you come to the south-eastern extent of the site. The proposed steel museum development is located along the northern boundary of the site extents with the area currently holding the Riverside Church Building, in which we propose to demolish, please see Figure below for site location, approximate OS grid reference number is: SS764900.

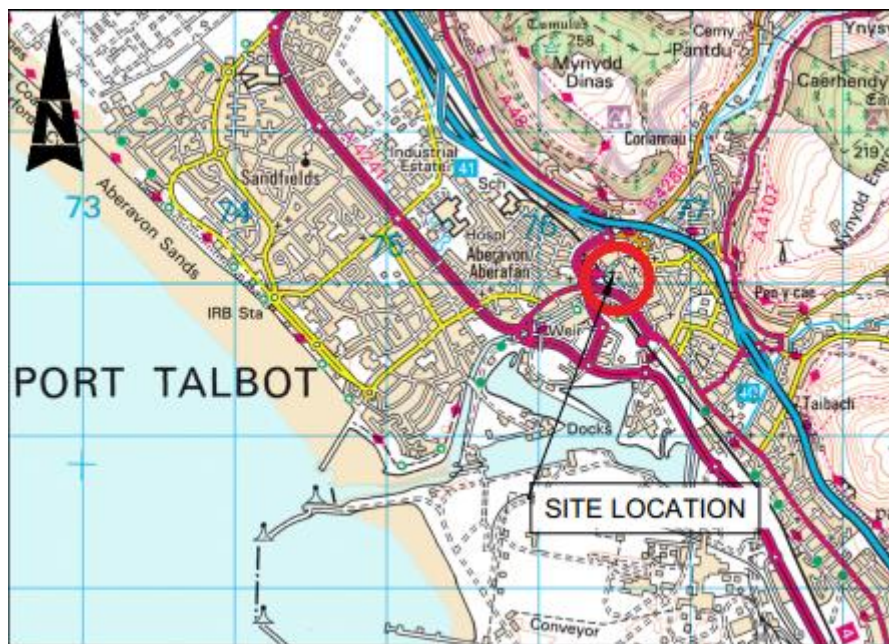


Figure 2-1 - Site Location (approximate co-ordinates 276478, 190036)

### 2.2. Project Safety Goals & Targets

The main Project safety goals are as follows, Blueprint Construction takes health and safety very seriously across all sectors & projects:

- All involved within the project are to return home from work without injury.

- Others affected by the works are not injured by the works or those carrying out the works.
- Blueprint Construction aims to become an active participant toward creating a better safer Construction industry.
- Create a safety culture within the project that can be carried with employees throughout their careers (Waldren, 2024).
- Provide top class safety training to all employees.

### 2.3. Boundaries and Access

Construction Phase plan option 2 was selected at the buildability stage of this project this is outlined within drawing 6033-ACECP-CD-XX-DR-C-0005-CONSTRUCTION PHASE PLAN OPTION 2. There is also a site access drawing which highlights routes into the site for any site deliveries or employees which can be found at the projects CDE under 6033-ACECP-CD-XX-DR-C-0003-SITE ACCESS.

Further to these documents a specific Traffic Management plan will be provided by the Principal Contractor, this design will further align access and egress specifics around site.

There are two large car parks within the site, one of which a large amount of space will be used to set up the site compound in order to begin construction. It has been agreed that all employees and site visitors should report to the site offices first and then park within the agreed spaces of the southern public car park.

Only vehicles suitably marked within the Chapter 8 standards are to enter a live traffic management system at any time (Department for Transport, 2009).

### 2.4. Activities on or Adjacent to Site During Work & Adjacent Land Use

Some of the activities undertaken at the time will be as follows:

- General public car park with 24-hour access
- Live train services along adjacent trainline
- Deliveries to shopping centre access road and local shops from Station Road

## 2.5. Location of Existing Services/Utilities

Location plans of Public Utility apparatus are included in Appendix A, however the Principal Contractor must still liaise with the relevant service providers to identify the location of any services prior to starting the work.

The statutory undertaker plan (drawing reference: 6033-ACECP-CD-XX-DR-C-2-STATUTORY UTILITIES) show that the following utilities are present within the proposed works, and defines all apparatus found on site:

- BT cables, Poles and boxes
- Welsh Water Main and apparatus
- Welsh Water Foul & Combined Sewers and apparatus
- Highway drainage system is assumed although no prior records received.
- Wales & West Low Pressure Gas Services
- National Grid Underground Low Voltage and Service Lines

## 2.6. Ground Conditions

Existing ground conditions are found to be sandstone & siltstone material which is more cohesive than granular, more information regarding ground conditions are outlined within the Ground Investigation Report.

## 2.7. Existing Structures

Southeast Gabion wall along the River Afan which may need some vegetation clearance and inspection work to determine its stability, this is outlined within the Feasibility Report.

## 3. Key Dates

### 3.1. Project Timescale

| Key Stages                                      | Date / Timescale                          | Details |
|-------------------------------------------------|-------------------------------------------|---------|
| Principal Designer Appointment                  | October 2023                              |         |
| Principal Contractor Appointment                | October 2023                              |         |
| Circulation of the Pre-Construction Information | April 2024                                |         |
| Completion of the Construction Phase Plan       | April 2024                                |         |
| Planned Start                                   | May 2024                                  |         |
| Planned Completion                              | August 2025/ following programme revision |         |
| Handover of the Health and Safety File          | TBC                                       |         |

## 4. Planning & Management of the Project

### 4.1. Structure & Organisation

The Blueprint Organisational Structure for this project is:

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Project Manager:    | James Lloyd                                                                 |
| Designer:           | Ayesha Williams, Mathew Catlin, James Lloyd, Somma Howard & Inderdeep Sidhu |
| Principal Designer: | Blueprint Construction (Contact: James Lloyd)                               |

### 4.2. Blueprint's Emergency Procedures

There are currently no emergency procedures which could affect the works. However due to the nature of the project, the Principal Contractor is to inform the local authorities with regular updates and basic contact details. They are also to administer an out of hours contact throughout their workforce, to attend to any issues that may arise.

### 4.3. Permits and Authorisation Requirements

The Principal Contractor is to operate and manage a permit to work system, this is to ensure that no works are undertaken on site without appropriately trained staff and the correct method statements and risk assessments are prepared (HSE, 2015c). Permit to work systems for the following areas of work must be agreed and provided with all site personnel:

- Working adjacent to live buried or overhead services.
- Manual Lifting
- Working Near a River

- Working within a Flood Risk area
- Working adjacent to a live highway
- Working adjacent to a live railway line.
- Working with percussive tools (HAV)
- Hot working
- Lone working
- Working within an Excavation (Permit to dig)
- Working with Hazardous materials (COSHH)

## 4.4. Site Rules and Other Restrictions

### 4.4.1. Contractors

Specific site rules that will apply are as follows:

1. Restrictions on smoking and vaping, designated areas to be provided.
2. Fire, accident, and emergency procedures to be followed.
3. Special instructions or restrictions to apply to visitors, including the need for relevant PPE and induction systems.
4. All deliveries to site to use What3Words system and by supervised by contractor's banksman.
5. PPE to be worn on site at all times (Hard hat, High Vis vest, Gloves & Glasses)
6. All specified working systems to require permit to work to underline competency.
7. Special arrangement to prevent unauthorised access to site.
8. Rules for Noise and pollution to comply with HSE standards ([www.hse.gov.uk](http://www.hse.gov.uk), 2006)
9. Chapter 8 markings to be provided on all site vehicles.
10. All site teams to have fully valid CSCS cards.

Further site rules around safety will be outlined prior to works commencing with a detailed site induction, this will offer employees the opportunity to engage with the Principal Contractor around this subject.

The Principal Contractor and all other site staff must comply with all statutory requirements regarding the disposal of waste on site complying with HSE regulations and the Site Waste Management Plan 2008 (HSE, 2015b). They must also ensure that the emission of dust, water, smoke, noise, vibration, fumes, and rubbish all of which may cause personal injury are adhered to stringently. If the any contractor uses Mobile phones on site, they must ensure that they are in a safe location away from any heavy plant, ensuring they have no impact on the works or themselves.

#### 4.4.2. Site Induction Training

The principal Contractor is responsible for:

- Keeping all the records provided of courses attended which include:
  - Names
  - Details of training provided.
  - Date
  - Attendee signatures
- Ensuring that all site personnel that are employed to work on site or intending to visit or deliver to site are appropriately inducted and briefed.

Following this site induction training will include:

- Scope of the project
- Site access & egress
- Site constraints
- Known site hazards passed down from design.
- Potential site risks

- Traffic management procedures
- Emergency procedures
- Site rules
- Welfare, firefighting and first aid facilities
- Accident reporting procedures
- Personal protective equipment (PPE)
- Health and safety plan and individuals' responsibilities
- Permit to work procedures.
- What3Words site location and nearest emergency services

All staff who have then completed the induction will be given a site competency card which states they are safe to work on site, a refresher of this training will be run yearly and is mandatory to all staff.

#### 4.4.3. Noise

Due to the site being located in a built-up area, noise suppression techniques such as noise barriers shall be used, along with the use of ear protection ([www.hse.gov.uk](http://www.hse.gov.uk), 2006). Due to the nature of the site pneumatic breakers are prohibited for use after 11pm.

### 4.5. Design Liaison Requirements

Under the CDM Regulations 2015 the Principal Contractor is to inform the Principal Designers Project Manager of any additional design work or unforeseen circumstances which will affect the design and Construction Phase Plan.

### 4.6. Security Arrangements

Due to the nature of the site, the Principal Contractor is reminded of the standards defined in the HSE publication HSG 151 'Protecting the Public - You're Next move' (HSE, 2009)

, 'Safety at Street Works and Road Works - A Code of Practice' (Department for Transport, 2013) and 'chapter 8 of the Traffic Signals Manual' published by the Department of Transport, Local Government, and the Regions (Department for Transport, 2009)

#### 4.7. Welfare Provision

The welfare facilities that will be provided are to be in accordance with Schedule 2 of the CDM Regulations 2015 (Legislation.gov.uk, 2015). The facilities are designated to provide sanitary, eating and drinking and storage facilities for the site members the size of these facilities are to be determined by the number of staff proposed to work on site at any given moment.

These proposals are set out within the Construction Phase plan (CPP) and CPP drawings, which will be issued as part of the drawing package for this scheme. These drawings will also include the proposed location of all site amenities and a further layout drawing will be provided outlining this. This will then be made available to all staff and visitors and any updates to this will be communicated following the company's communication plan.

## 5. Requirements Ensuring Co-operation Between Duty Holders

All duty holders will be issued with this Pre-Construction Information Package, and it will also be placed within the projects Common Data Environment so relevant stakeholders have up to date access. This will be done to ensure the correct communication channels are distributed e.g., E-mail addresses, Telephone numbers etc. Both a drawing and document register will also be set up and shared within the CDE, further details on the sharing of information can be found within our BIM Execution Plan ([6033-ACECP-CD-XX-RP-C-0003-Rev01-BIM EXECUTION PLAN](#)) recording design changes and capturing drawing and documentation updates.

### 5.1. Co-ordination of Design Work and Changes

Any Proposed design changes will be brought to the attention of the Principal Designers Project Manager this will then be captured using SiteMates Technical Query (TQ) system. The TQ system will be split into three types of TQ which are outlined below:

1. Category 1 TQ – Request for clarity of the design, or an issue solved without affecting design protocols.
2. Category 2 TQ – Request for a change to the design which is minimal, not requiring re-certification or updates to as-built records.
3. Category 3 TQ – Request to change design and/or material specifications, which will need re-certification and updates to design drawings and further as-built records.

Further to this Category 1 & 2 TQ's will usually be dealt with by the site teams quality team, ensuring the correct lines of communication to the design team. However, as Category 3 TQ's will need re-certification these will need to be addressed by the design team, liaising stringently with the Principal Contractor, and taken through the Principal Designers Project Manager.

## 6. Health & Safety Hazards of Site Including Design and Construction Hazards

### 6.1. Site Feasibility Hazards Identified

Information gathered following the Feasibility report for this project and further site investigation has been collated and summarised within Appendix B. It represents Regulation 4 of the CDM Regulations 2015 (Legislation.gov.uk, 2015)

The works have been planned to start on site in May 2024.

Further to this Method Statements and Risk assessments will be provided by the Principal Contractor where reasonably practicable, along with the designer suggesting work methods and also outlining potential risks at design stage, with the implementation of risks added to drawings, models, and a risk register (HSE, 2015a).

### 6.2. Storage of Hazardous Materials

Materials that fall under COSHH Regulations 2002 will be stored separately from general building supplies, this will be in order to manage access to these materials and minimise the risk of accidents and spillages. The correct PPE must be worn when using and handling COSHH materials with a COSHH assessment undertaken to identify best practices for this. (Wilkinson, 2021). Adequate ventilation will be provided in the specialised storage cabin along with a spill kit in case of accidents with materials.

Materials approved with the Materials Approval Request (MAR) forms will state the COSHH status of the product, this is to help with the safe, storage and use of the products ensuring the correct procedures are followed (Wilkinson, 2021).

### 6.3. Existing Health Hazards

### 6.3.1. Contaminated Land

Please refer to Ground Investigation Report for more information.

### 6.3.2. Asbestos

No Asbestos records have been made available for the site, prior to any demolition works a desk study is to be obtained providing this information and an asbestos survey will be undertaken as part of the demolition works package for this project.

### 6.3.3. Radon

A desk study was undertaken and found that the site could be exposed to radon gas, please refer to feasibility report for more details ([6033-ACECP-CD-XX-RP-C-0002-Rev01-FEASIBILITY REPORT](#)). It was proposed to undertake a further radon survey to accurately determine the levels and then the potential to mitigate through the use of sumps.

## 6.4. Design Assumptions & Control Measures

Significant design assumptions, suggested work methods or other control measures:

- Contractor to record rainfall and provide method statement of what action will be taken to prevent flooding to site.
- Temporary works to be updated if groundwater conditions on site become uncontrollable, designers also to be notified.
- Samples of the river to be taken at regular interval through construction to prove no contamination to the river.
- Material testing requirements for Architectural, structural and Civil Engineering elements are to be undertaken following the relevant standards.
- Principal Contractor temporary works design to be communicated and agreed with Principal designers.

## 6.5. Risks Identified During Feasibility/Design Stage

The following hazards that were identified at feasibility stage and design stage are briefly discussed as follows, more details on these are provided in Appendix B:

- Working within a low-risk floodplain
- Buried and overhead statutory utilities.
- Access and egress into site and traffic management
- Working within winter period and other adverse weather conditions
- Controlling waste and preventing contamination to River Afan
- Working alongside a live carriageway
- Working in close proximity to live railway tracks.
- Working within a built-up area
- Access to site from unauthorised personnel
- Temporary removal and storage of materials
- Possible risk of asbestos or radon gas

## 6.6. Materials Requiring Particular Precautions

Any approved grouting, adhesive, mortar or flammable liquid materials are to be stored under COSHH regulations ensuring the storage cabin is outside of the low-risk flood zone to prevent any contamination into the ground and adjacent river system.

## 6.7. Environmental Restrictions

Please refer to environmental documentation for this project.

## 7. Existing Health and Safety File

No existing health and safety file has been provided.

## 8. Construction Phase Plan

Blueprint Construction (Principal Contractor) have provided a construction phase plan (CPP) drawing at feasibility stage which has been agreed with the client team. This construction phase plan is now to be updated prior to works commencing and issued to the construction team **BEFORE** work commences on site.

The CPP will help to set out the order of construction for the plots within the site. It will also align all health and safety arrangements and site rules, making contractors and sub-contractors accountable where necessary.

Further to this the CPP will be regularly reviewed and revised where necessary so the work can be carried out without risk to health and safety and progress.

## 9. Health and Safety File

Upon completion the Principal Contractor is to provide the Principal Designer with the following information to be included in the schemes Health and Safety file:

- Contract date and duration
- Principal Contractor details
- Material Certificates
- Lighting test certificates
- Certification of design
- Health and safety hazards and how they were addressed.
- As-built drawings, documentation and models for completed works.

# Appendix A – Statutory Utilities Drawing

## Appendix B – Hazard Identification

| Item                                   | Hazard                                                                         | Design Assumption / Control Measure                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proximity of works to live carriageway | Conflict and resulting injury between construction operatives and live traffic | <p>TM to be designed in accordance with Chapter 8 of the TSM and agreed with the Street Works Coordinator and Site Supervisor before commencement.</p> <p>A Temporary Traffic Restriction Order for a road closure and diversion has been agreed.</p> <p>Advance signing and consultation with Local Authority to be implemented.</p> |
| Working at night                       | Injury to workforce and damage to utility plant                                | The works area is to be sufficiently lit to enable site workers to operate and undertake the works in a safe manner.                                                                                                                                                                                                                  |
| Use of percussive tools                | Injury to workforce - Specifically hard arm vibration (HAV) injuries           | <p>The plant, materials, and method of removing the existing expansion joints will need to be carefully chosen and agreed to minimise risk to health and pollution.</p> <p>Specific attention will need to be paid to the risk of HAV injuries and operative welfare.</p>                                                             |
| Manual handling/ heavy lifting         | Injury to workforce                                                            | <p>Principal contractor to ensure that site workers are trained in the correct approach to manual handling.</p> <p>Site workers are not to carry items that they are unable to carry in a safe manner.</p>                                                                                                                            |

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| <p>Risk of conflict with existing services during excavation works</p> | <p>Injury to workforce and damage to utility plant</p>                                                                                                                                                                                   | <p>A statutory undertakers search has been undertaken which highlighted several services.</p> <p>Original copies of statutory undertaker's plans to be issued to Principal Contractor.</p> <p>The contractor should take care when working within proximity to utilities and services. If utilities or services are located on site during the works, then they are to be raised with the site supervisor.</p> <p>Statutory undertaker drawings are not to be taken as accurate. The Principal Contractor should identify methods to locate and mitigate against impact with services and utilities.</p> <p>Principal Contractor to request statutory undertakers to mark-up services prior to commencement of scheme and excavate trial pits as required.</p> <p>Private service connections to be located prior to excavation being undertaken.</p> |
| <p>Use of Concrete and Bituminous Materials.</p>                       | <p>Risk of injury caused by misuse of hazardous materials</p>                                                                                                                                                                            | <p>Contractor to undertake a COSHH assessment of all hazardous substances in accordance with COSHH Regulations and relay information to operatives.</p> <p>Appropriate RAMS to be implemented and appropriate PPE to be provided by Contractor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>Adverse weather conditions</p>                                      | <p>Injury to the workforce as a result of the risks posed from severe weather conditions including slips, trips and hypothermia.</p> <p>Risk of high winds and adverse weather conditions presenting a risk to the safe operation of</p> | <p>Contractor to ensure the workforce are wearing clothing / footwear and other protection appropriate to the weather conditions.</p> <p>Contractor to ensure the workforce avoid sheltering under potential lightning conductors during periods of thunder and lightning.</p> <p>The contractor should ensure that, during periods of snow and icy conditions, the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | the Heavy plant machinery                                                                                                                                                                                                                                                                                                                    | <p>footways are gritted to reduce the risk of slips and trips.</p> <p>Contractor to inform the workforce of the possibility of flying objects or debris in periods of high winds.</p> <p>The contractor should make suitable welfare facility arrangements to provide shelter for the work force during periods of adverse weather.</p> <p>Contractor to consult the weather forecast to highlight likely weather conditions during the works period. This should be conveyed to the workforce to enable preparedness for undertaking the works during periods of adverse weather conditions.</p> |
| Working within an active floodplain                   | <p>Risk of flooding of the site during construction from the river Afan or other nearby surface water courses.</p> <p>The site is located on in close proximity to low-risk flood plain of the River Afan. Flooding during construction may lead to instability of excavations as well as damage to site equipment and incomplete works.</p> | <p>Contractor to provide detailed method statement and emergency action plan to record how potential rainfall will be monitored and what action will be taken if anticipated that the site will flood.</p> <p>All equipment is to be stored in a designated laydown area outside of work hours, located outside of the low flood risk area.</p> <p>If groundwater is encountered higher than expected when on site, the designer is to be informed and the temporary works will be updated accordingly.</p>                                                                                       |
| Controlling of construction runoff by the Watercourse | Risk of pollution and contamination within the watercourse from construction works and any associated runoff, in particular from the Concrete foundation works.                                                                                                                                                                              | <p>Contractor to remain vigilant to potential contamination during remedial works and to inform client if any visual or olfactory evidence of contamination is encountered.</p> <p>Samples may need to be collected for laboratory analytical/waste classification testing during construction.</p>                                                                                                                                                                                                                                                                                               |

|                                          |                                                                                                                                                                                                        |                                                                                                                                                                              |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Contamination with site materials</p> | <p>Risks to controlled waters and human health identified from contaminated soils and soil-leachate from Made Ground soils.</p> <p>Radon is a potential problem without specific areas of the site</p> | <p>Appropriate mitigation measures should be put in place to protect site workers coming into direct contact with Made Ground soils, such as the use of appropriate PPE.</p> |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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