

CONSTRUCTION PHASE PLAN

Top Deck Modular Parking Structure at Breakspear Park

Site Address

39 Breakspear Way

Hemel Hempstead

HP2 4TZ

Client

Zurich Assurance Ltd





Project Contact Details

Contractor Berry Systems

Principal Contractor Address: Springvale Business Park, Bilston, \

Wolverhampton, WV14 0QL

Contractor Contact Details Tel no . 01902 491100

Fax no. 01902 4994080

Web. www.berrysystems.co.uk

Client: Zurich Assurance Ltd

Client Address: Threadneedle Portfolio Services Limited,

PO BOX 3550, Swindon SN3 9AP

Principal Designer Berry Systems

Designer Address: Springvale Business Park, Bilston,

Wolverhampton, WV14 0QL

Designer Contact Details Tel no . 01902 491100

Fax no. 01902 4994080

Web. www.berrysystems.co.uk

Architect: Spratley & Partners

Architect Address: 7 Centenary Business Park

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Henley on Thames

RG9 1DS

Client Representative Matthew Osborne

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London EC2V 6EE

Safety Officer Contact: lan Dunsford

Safety Office Address Southall's, Cranmore Place,

Cranmore Drive,

Solihull,

West Midlands,

B90 4RZ

Emergency Services 999 in the event of an emergency.

Project Emergency Contact Michael Newland Project Emergency Tel 07920 336 596



Construction Phase Plan

Introduction

This document identifies the contents of the Construction Phase Plan as required under section 5.0 of the Employer Requirement enquiry dated January 2020. All items are based upon guidelines and requirements set out in the Construction (Design and Management) Regulations 2015.

The purpose of the plan is to set out the arrangements for securing the health and safety of everyone carrying out the construction work and all who may be affected by it.

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Section 1 - Management

Section 1.1 Management Structure & Responsibilities

Managing Director – Steven Dunn – Divisional Head responsible for the overall health and safety of the project, employees and subcontractors and a Duty of care for the public for this project and all other projects undertaken by Berry Systems. Responsible for reporting operational performance of the division with direct reporting to Hill & Smith Holdings plc.

Head of Construction – Michael Newland – Responsible for divisional operations and reporting on project progress, risk and mitigation plans to see projects delivered on time, budget and client's expectations. Responsible for Health and safety of staff, Berry Systems staff, public and subcontractors. Duties include ensuring that Safe Systems of work are in place before works commence and to ensure that works are undertaken in line with legislation and best practise. To ensure that all operations on site are undertaken to zero harm standard at all times.

Head of Commercial – Dannyjo Cox – Responsible for commercial reporting, contract reviews and execution. Duties and responsibility involve being the commercial contact for the client throughout the project.

Contracts Manager – Darren Rowley – Oversee specific project goals, milestones and handling of direct and subcontract labour. Operate as project champion for contact with the client and to oversee progress.

Projects Manager – TBC (due to existing project commitments) – Responsible for the overall execution of works on site which includes material planning, logistics, health and safety, oversee project related meetings, record and carry out actions and highlight problems to ensure clear communications to the client, staff, public and subcontractors. To be driving the project to a successful completion on time and budget. Ensure that Employers requirements throughout the project are met.

To oversee the overall project operations on site ensure that works managed safely and that suitable safe system of works are undertaken. To review and ensure that works are carried out in a safe manner that is also considerate to the environment and public interface at all times. The project manager will have suitable appropriate qualifications such as SMSTS, First Aid, IOSH qualification.

Site Manager – Dan Hill – Assist the project manager in executing his role and support in all aspects of the construction. Ensure that safe systems of works are undertaken, site security is maintained and health and safety daily brief and health and safety record keeping are kept up to date.

Review monitor and engage with the workface to promote high standards of health and safety and ensure that the works are carried. The site manager will obtain a good understanding of subcontractors RAMS by undertaking appraisals and will police and monitor the works to ensure that works are undertaken in reflection to the RAMS and Safe Systems of Works detailed. The site manager will have appropriate qualifications to suit



the role such as SMSTS, First Aid, IOSH qualification, NVQ level 3 in site supervision and construction management.

Quality Manager – Steve Dungar – Ensure that site environmental policies are upheld, structural materials are in line with relevant standards and execution classes. Oversee Inspection test plan completion by Berry Systems and ensure that subcontractor's plans are completed and collated to be presented in the final Health and safety file. Undertake auditing of subcontractors throughout the project to ensure quality standards are achieved.

Subcontractors – Varied Trades – Carry out works in line with the requirements set out in the tender packages supplied by Berry Systems which are in line with the Employers Requirements. Works at all times to be undertaken in line with project task risk assessments and method statements and in line with legislation and acop's. All lead/foreman/charge hands to be a minimum of SSSTS qualified and to hold first aider qualifications. SSSTS qualification ratio to operatives within works team to be set at a maximum of 5:1. All operations to be undertaken in line with submitted RAMS that will meet a set criteria stipulated by Berry Systems to ensure a consistent standard of health and safety documentation.

Section 1.2 Health & Safety Goals For The Project & Monitoring

Health and safety goal for the project is for the project to achieve a "zero harm" score. To achieve this Berry Systems have found that the development of a health and safety culture. Health and Safety Law in the UK is based upon reasonable practical controls. Berry Systems will work on this basis but also bring in a culture of "near miss" reporting and "don't walk by" mentality that will allow staff, subcontractors and public to report any concerns direct to senior site staff and if necessary further senior management without retribution on their actions.

Daily briefs will be undertaken with project team managers to ensure safe works and subcontract interaction is undertaken. Near miss reports are to be reviewed to ensure that we can manage trends of incidents and take appropriate actions. Accident reports are to be fully investigated and root courses identified to enable improvements to be made.

Third party inspections to be made by Berry Systems independent Health and Safety Advisor to give feedback on culture, actions and safe systems of works been undertaken on site.

Section 1.3 Liaisons between Parties on the Site

Regular subcontract meetings to be held between subcontractors management and subcontract to plan ahead and ensure topics such as the bullet list below is achieved to prevent delays or loss of productivity:-

- Access
- Deliveries
- Resources
- Milestones



Daily briefs will see direct daily face to face interface with contractors to close out issues as they arise. An open door policy will be made clear to all contractors.

Section 1.4 Pre-Construction Safety Plan/Design Risk Assessments.

Technical review sheets to be issued to principal designer highlighting employer requirements, material specification to ensure execution class of structural components is recognised. Designers risk assessments for items of "significant risk" in line with the design are to be identified and presented to the client during the drawing approval stage of the works.

Section 1.5 Consultation with the workforce

Communications with the workforce will be essential to ensure that the same targets, milestones and goals for the projects are achieved. Toolbox talks will be instigated as a base means of communications not just on topics of health and safety for the workforces teams but also Berry Systems will instigate these tool box talks meetings with an "any other business" section so that concerns and ideas on site improvements can be reviewed.

Section 1.6 The Exchange of Design Information between Client, Designer, PD & PC

Berry Systems will be acting as the Principal Contractor and Principal Designer. The request for design information will be undertaken by means of "request for information (RFI)" means of communication. Requests are too be logged and closed out to ensure that updated information is received and actioned by the appropriate person i.e. Client, contractor and Principal Contractor.

Key points of contact for all parties will be issued and co-ordinated to all relevant parties for information.

Section 1.7 Handing Design Changes during the Construction

Berry Systems will be acting as the Principal Designer for the superstructure and ground foundation works. Information in the form of drawings and specifications will be issued for review and approval at various stages throughout the design.

Drawings will be issued through an industry standard drawing register/issue note that will be distributed and updated with every drawing issue.

Section 1.8 The Selection & Control of Contractors

It is intention of Berry Systems to utilise local contractors as much as possible to ensure economic return into the community. All contractors will be required to undertake credit score assessment to ensure financial viability. All contractors require to complete the online portal "Builders Profile" which will enable review of critical information such as insurance documents, qualifications, legislation information such as Health and safety polices etc.



Section 1.9 The Exchange of Health & Safety Information between Parties

All contractors and critical stakeholders within the project are to present where necessary information to execute health and Safety mandatory requirements before any works commence such as:-

- Method Statements and risk assessments that demonstrate the mitigation of risk and the demonstration of safe systems of works. These documents should detail Methods of work, points of contact, evidence of competence, first aid arrangements, emergency contact details, risk mitigation and controls.
- Qualifications for specific tasks such as plant operators, structural engineer qualifications, Health and safety qualifications etc.
- Toolbox talk topics issued to contractors where topics are realised on site.

Section 1.10 Site Security

Site boundaries are to be demarked around site boundaries by means of solid barricade panels with appropriate system weighted restraints to prevent fencing collapse. Boundaries are to be inspected on a daily basis with rectification works undertaken as and required. Appropriate signage is to be mounted upon fencing to demonstrate principal contractors name ad emergency contact numbers. Access to site will be via fingerprint security turnstiles as detailed in the employers requirements. Security cabins to be provided at key vehicle access points to the boundary of the site.

All vehicle gates are to be kept locked at all times when the gates are not in use to prevent the risk of the public or alien vehicles wandering onto site.

Section 1.11 Site Induction

It is a requirement of health and safety law that employees are provided with health and safety training whenever they are exposed to a new or increased risk.

To ensure that Berry Systems are undertaking these requirements set out by the Health and Safety at Work Act (HASAWA) this training will take the form of a site specific induction. It is accepted that providing proper and effective health and safety training can significantly reduce the likelihood of accidents and injuries during a person's first few days, weeks or months on a particular site.

As well as requirements set out by the HASAWA the CDM Regulations 2015 specifically require that:-

 The principal contractor takes all reasonable steps to ensure that every worker is provided with a suitable site induction.



As the site develops with changes to site infrastructure, temporary or permanent traffic routes, changes to welfare and office accommodation, changes to muster points et. the induction should also be adapted and changed to ensure that it is relevant and provides the information required under the HASAWA and CDM regulations.

Berry Systems will review induction changes as the site develops and progresses.

Section 1.12 Welfare Facilities & First Aid

The client duties under CDM regulations is to ensure that the project does not commence unless suitable and appropriate welfare facilities are provided. Berry Systems will ensure that the client duties can be executed appropriately we will provide:-

- Toilet facilities
- Changing/Drying room with seating
- Hot water
- Areas to heat food
- Rest areas and facilities to be able to take appropriate rest
- An adequate supply of drinking water

Welfare facilities will be positioned off the main site to enable these to be sited once and provide continued service throughout the build. See below image detailing siting location of welfare facilities.





Section 1.13 The Reporting & Investigation of Accidents Including Near Misses

Berry Systems will as required under the HASAWA keep records of all accidents along with statuary obligations to report RIDDOR incidents. Records will include:-

- Date, time and place of accident
- Name and job of injured or ill person
- Details of the Injury or ill person
- What happened to the person immediately afterwards (for example if they went home, hospital or back to work)
- Name and signature of the first aider or person dealing with the incident.

All recording of accidents and near misses will be recorded electronically on Safetycloud portal and relevant PDF copies of the incident will be issued to any subcontractors SHEQ manager. For reference please see link to Safety Cloud:-

www.southall.com

Section 1.14 The Production & Approval of Risk Assessments & Written Safe System of Work(SSOW)

Tasks undertaken on the project will see the presentation of risk assessments to assess that appropriate risk mitigation has been identified. The assessment of risk is the fundamental principle behind the drive for a reduction of workplace accidents and work related ill health.

Risk assessments and SSOW/Method statements must consider the potential risk to the health and/or safety of anyone who may be adversely affected which may include employees, employees of other contractors, site visitors and members of the public.

Anyone carrying out an appraisal on behalf of Berry Systems will be competent in this role and will hold appropriate Health and Safety qualifications such as SMSTS, IOSH or Nebosh qualifications. SSOW/Method Statements will be required to be presented to Berry Systems for an appraisal at least 48hours before commencement on site. An appraisal will be undertaken and issued back to subcontractors for clarity that there presented documents reach the required standards Berry Systems requires so that clear communication and information is available for the workforce to carry out the task.



Section 1.15 Site Rules

Site Rules will be detailed within the project site induction and these rules will reference the below topics:-

- Access/Parking
- Accident Reporting and the requirements of an employee of the site regardless of company they represent.
- Zero tolerance alcohol and drug rules
- The actions to take in the event of asbestos been found on site
- The actions to be taken in the event of an emergency procedure such as a fire i.e. assembly points
- Site Boundaries/security and the precautions to prevent site trespass
- The execution of Permit to Work Systems such as hot works, confined spaces and breaking ground.
- Confidential issues such as whistle blowing
- Discipline expected on site
- Smoking arrangements
- **Edge Protection requirements**
- Competency and requirements to carry out tasks i.e. CSCS cards, CPCS, IPAF, PASMA etc
- First Aid Requirements and arrangements for site.
- Traffic management for site
- Environmental rules and concerns such as location of watercourses, refuel stations and waste management control
- Control of Substances Hazardous to Health
- Use of Ladders and access equipment
- Mandatory PPE requirements for site
- Housekeeping and expectations
- Appropriate use of Welfare facilities



Section 1.16 Fire & Emergency Procedure

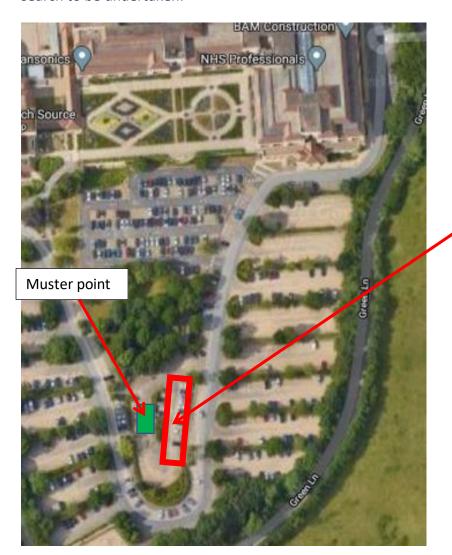
In the event of a fire or other emergency then an alarm should be raised at the fire point stations sited around the site. An airhorn will be used to raise the alarm. Upon hearing the alarm personal should look to remove themselves from site leaving their work area in a safe condition and evacuate to muster point to the car park area to the rear of the site cabins, as indicated on the drawing below.

Fire

In case of fire each employee shall leave the site and assemble at the carpark area to the rear of the site cabins

Call 999 and ask for the Fire Brigade

Undertake a roll call to ensure all personnel are accounted for using the signing in book. Upon completion of roll call advise the Fire Brigade of any missing persons to enable a search to be undertaken.



Proposed location of welfare facilities

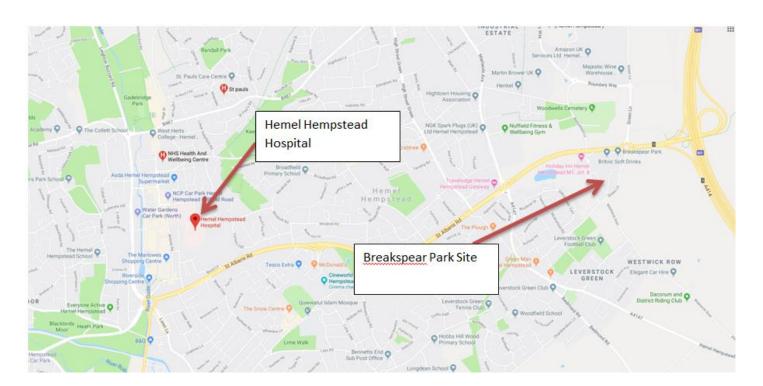


Medical Emergency

In case of a medical emergency the nearest Hospital with A&E is:

Local Hospital: - Hemel Hempstead Hospital - Hillfield Road, Hempstead, HP2 4AD

Telephone Number: - 01442 213 141



https://goo.gl/maps/uTwJAbf2dmkYJ6cQ6

Take Green Ln to Breakspear Way/A414 - 48 s (341 ft)

Head north 56 ft

Exit the roundabout 69 ft

Turn left onto Green Ln 217 ft

Follow A414 to Selden Hill 5 min (2.4 mi)

At the roundabout, take the 1st exit onto Breakspear Way/A414 0.6 mi

At the roundabout, take the 2nd exit onto St Albans Rd/A410 0.8 mi

At the roundabout, take the 2nd exit and stay on St Albans Rd/A414 0.2 mi

At the roundabout, take the 2nd exit and stay on St Albans Rd/A414 0.8 mi

At the roundabout, take the 2nd exit onto The Plough Roundabout 161 ft

Continue on Selden Hill to your destination 4 min (0.9 mi)

At the roundabout, take the 2nd exit onto Selden Hill 0.1 mi

At the roundabout, take the 2nd exit and stay on Selden Hill 226 ft

Selden Hill turns left and becomes Wolsey Rd 0.2 mi

Continue onto King Harry St 0.1 mi

Turn left onto Hillfield Rd 105 ft

At the roundabout, take the 3rd exit and stay on Hillfield Rd 0.2 mi



Turn right 476ft Turn left 157ft Turn right Destination will be on the right

Section 2.0 Arrangements & Control Significant Risks

Section 2.1 Method Statement & Risk Assessment For Each Element of Works

Method statement and risk assessments (RAMS) will be raised for each task required for the project. RAMS will be appraised by qualified site management team to ensure that high risk operations such as breaking of ground and lift operations are appropriately assessed.

RAMS are to be submitted 48 hours prior to commencement and appraisals are to ensure that generic RAMS are **NOT** submitted. It is important that the contractor presents RAMS during induction and that RAMS are signed by all operatives before commencing works.

Berry Systems will pro-actively encourage that RAMS are reviewed during operations of any duration and if necessary amended and changed to suit the environment.

Section 2.2 Delivery & Removal of Materials Including Waste & Work Equipment.

Due to the tight access restrictions on site controls on logistical movements of plant, deliveries and waste on and off site will be required. Deliveries of materials and equipment will be required to be booked in with site management teams. Delivery vehicles will require to lay up and call site prior to entering on to the Breakspear Park to ensure that the delivery can be accommodated and preventing traffic issues on the park and delaying members of the publics vehicles as they enter onto site.

Waste will be removed by registered waste carriers and disposed appropriately. Copies of ALL waste transfer notes/containment notes will be filed on the project and kept for record purposes.

To alleviate traffic management issue on site larger deliveries of the like such as floor slabs and steel works will be delivered to site between the hours of 10.00a.m and 3.30p.m to ensure that all office staff have chance to enter site and park without causing congestion to the main dual carriageway on Breakspear Way. Removal of waste in the form of site skips will be undertaken by licenced contractors only and will follow a similar time slot for access to site of between 10.00a.m and 3.30p.m. All deliveries will be booked in at least 48 hours prior to site visit to prevent congestion on site and the surrounding roads.

Section 2.3 Dealing with Services, Water, Electricity, Gas, Including Overhead Powerlines

The risk of striking a hidden service in any construction operation is a high risk activity. Appropriate service drawings will be required to be provided by the client in the



preconstruction information pack and conversations will the relevant service providers to ensure that we have the latest drawings and information are essential.

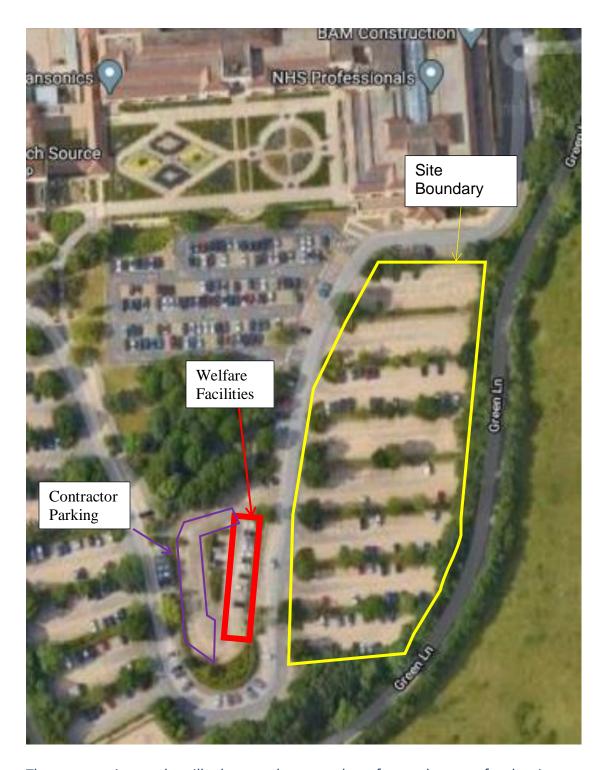
Prior to any works been undertaken a CAT and GENIE survey will need to be undertaken to ensure that services can be plotted to prevent the risk of strikes. Permit to dig systems are to be adopted to ensure that control measures such as hand digging is undertaken when and where required.

Considerations for overhead cables will be taken into consideration but there are no overhead cables on site causing any reason for concern.

Section 2.4 Accommodating Adjacent Land Use

As detailed in section 1.12, we propose to accommodate land adjacent to the site to house welfare facilities and contractors parking. This will allow maximum storage accommodation to be contained within the site boundaries and enable delivery vehicles, crane age, lorries and the like to enter site within the boundaries operate on a one way traffic management system preventing the risk of reversing onto and out of the site onto the carpark trunk road and eliminate the potentially blocking users of the Breakspear Park site from exiting and entering the site.





The construction works will take out a large number of carpark spaces for the site throughout the construction operation. Our client has advised that an arrangement will be made to provide a park and ride off site facility to enable staff to be commute, park and use the office facility during the build in the event that the remaining carpark spaces which becomes over used.



Section 2.5 Stability of Structures Whilst Carrying Out Operations Including Temporary Works

Steel work will be erected in a manner that prevents risk of stability issues by forming square sectional grids and in line. Where required temporary braces will be erected to give added strength and support. Works will be undertaken in a systematic manner to ensure that stability of the steelwork is always achieved and rigidity is gained. Some bullet point guidelines will be introduced to prevent risk of collapse such as:-

- At no time will the structure be loaded to an extent that the structure becomes unsafe,
- Any temporary means of supporting the structure in the form of braces permanent or temporary will be designed to maintain stresses and strains.
- Any temporary braces will be only used for the purpose they are designed.
- Any temporary braces will not be overloaded to put the brace detail in a compromising positon.

Part of the groundworks package for the project require attenuation drainage tank to be installed. This will require a lager 7.5metre x 5.0metre x 2.3metre excavation. His excavation is to be battened back and edge protection erected with appropriate access points. Trench boxes to be used to prevent collapse and ensure stability of the excavation. Inspection of all excavations are to be undertaken at the start of every shift and/or if an unplanned event has occurred. This inspection will include any of the temporary edge protection at the perimeter of the excavation that may be in positon.

Section 2.6 Preventing Falls

Falls from height is the largest killer of persons on a construction site and Berry Systems take this statistic extremely seriously as a lot of our operations involve working at height in one form or another.

To combat the above statistic all works at height are to be undertaken by one of the following means of prevention and safe system of works:-

- Harness works fall arrest and/or fall restraint systems
- Scaffold handrails providing edge protection scaffold to be inspected on a 7 day inspection form
- Leading edge protection
- Scaffold towers or pop up towers
- MEWP access used in conjunction with harnesses

Section 2.7 Work With or Near Fragile Materials

An in depth dilapidation survey is to be taken to enable recognition of site condition before and after the construction works have been undertaken. Areas of interface between structures will take particular attention in the survey.



It is note that there is no "fragile" roof, walls or structures noted on the build site.

Section 2.8 Control of Lifting Operations

An in-depth lift plan will be collated, reviewed and appraised before any lifting operation works are undertaken. In collating the information for the lift plane we will:-

- Identify the tasks to be undertaken
- Identify the hazards associated with the task
- Carry out a risk assessment
- Identify control methods
- Developing the method to be used
- Record the planning in a method statement
- Communicated the plan to all associated staff and operatives
- Review the plan before we start and incorporate any changes if necessary
- We will designate an appointed persons or competent persons in line with BS7121 and the LOLER regulations to oversee all planning and lift operations.

Ground pressures and ground capabilities will be accessed and if required crane mats will be utilised to ensure stability of the ground and performance of the crane is not compromised.

Section 2.9 The Maintenance of Plant and Equipment

All plant and equipment is subject to the Provision of Work, Equipment Regulations (PUWER) 1998 and the appropriate requirements set within these regulations.

Equipment will be used only upon receipt of test and inspection certificate and/or records. This will be relevant for equipment from slings for lifting to electrical hand tools to safety harness and heavy plant. Records of equipment for each contractor will be kept on site. Plant and equipment inspection sheets will be undertaken for all equipment and handed in no later than 10.00a.m each day along with the daily site brief report sheets.

Defects noted during inspections are to be highlighted by the contractor and the equipment quarantined until rectification works are completed. Only upon the satisfaction of the project site manager or project manager will the equipment be allowed to be put back into work.

Section 2.10 Traffic Routes & Segregation of Vehicles and Pedestrians

Segregation of the site with barricade solid fence panels will prevent strayed members of the public from entering in the site. Turnstile access as required within the Employers Requirements will be implemented to enable access for contractors and prevent public or unauthorised access. Access gates for deliveries will be manned during period of the gates been required to be opened to prevent unauthorised access and policing of traffic management as deliveries ingress and egress the site. Site pedestrian access routes will be



designated with pedestrian barriers to ensure that pedestrians are segregated from site traffic. Areas of high activity will be segregated to only allow access by authorised persons only, activities such as steel lifts with telehandler and crane will dictate this activity. Designated crossing points in areas where pedestrians need to cross traffic routes will be erected and used.

Traffic route plans will be detailed within the site induction to operatives and displayed upon notice boards. Traffic plans will be subject to amendments as the project advances and restrictions in traffic routes will be reducing. All vehicles that enter site will be subject to strict speed limit restrictions of 5 mph and yellow flashing beacon while vehicles are moving.

One way traffic systems on site will be implemented where possible to prevent the risk of reversing and any need to undertake reversing movements on site MUST be undertaken with a banksman present.

See Below Image

Red line indicates the traffic route in and out of site from the Breakspear Dual carriageway There are no existing footpaths that runs along the perimeter of the site. To ensure that pedestrians are policed appropriately we will ensure that "pedestrians please use footpath opposite" signs are located at locations shown above along with "warning heavy vehicles in operation".

Wheel wash facilities will be placed at the entrance of the site in the form of a pressure jetting unit and monitoring of the trunk road for debris will be made on a daily basis. We will move the wheel wash location up to 3 times during the location to accommodate for the task been undertaken i.e. groundworks, steel erection and concrete pours for floor decks. We will look at ensuring that a road sweeper unit is used to clear the road in the event that mud is transferred to prevent the risk of mud migration into the water ways and storm drainage locations.





Section 2.11 The Removal of Asbestos

It is noted that within the Employers Requirements that there is no recognised risk of asbestos been on site. Berry Systems will require asbestos register to be provided for the plant room area where electrical connections will be made into the plant room.

Any suspect materials that are discovered are to be treated as "asbestos" until proven otherwise. Works to these areas will cease and the client will be advised of the discovery. If safe to do so a sample will be removed and taken for analysis at Birmingham City Laboratory for the attention of Trevor Box. Upon receipt of the results assessment on removal will be communicated to the client and associated effects on programme and costs



for removal. Only approved UKAS accredited contractors will be invited to tender to remove asbestos.

Waste transfer tickets will be forwarded to the client to demonstrate due diligence in the correct disposal of materials.

Section 2.12 Manual Handling

More than a quarter of all reported accidents each year are a direct result from poor manual handling. Berry Systems recognise this statistic and look where ever possible to reduce manual handling as much as possible.

Plant will be introduced to enable deliveries to be off loaded by means of telehandler and/or counterbalance forklift. Contractors are encouraged as much as possible to include for all means of assisted distribution within their packages to ensure that manual handling is reduced and if possible eliminated from the operation. Risk Assessments and Method Statements for tasks are to be presented ensuring that manual handling is eliminated from the day to day operations as much as practically possible. Recognising the importance of manual handling in the work place will be detailed within the site induction.

Section 2.13 Any Other Significant Risks

None