

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP)

Produced For	South Holland District Council
Planning Reference	H16-0373-23
Project Name	The Tulip Academy, Spalding.
Project Address	Tulip Academy Neville Avenue Spalding
Project Description	Installation of temporary accommodation, Demolition of existing single story main school building (FEAA), construction of new two story and single story school.
Principal Contractor Details	Tilbury Douglas Construction (TDC)
Principal Contractor Address	Building T3 Trinity Park Birmingham B37 7ES 0121-782-2727
Works Programme	Construction Phase – December 2023 – December 2025

Contents;

1. Introduction	3
2. Project Key Performance Indicators	4
3. Roles and Responsibilities.....	5
4. Environmental Aspects and Control Procedures	8
5. Consent Management	11
6. Environmental Action Plan and Operational Controls.....	12
7. Communications	13
8. Environmental Training.....	14
9. Environmental Monitoring, Audits and Reporting.....	15
10. Environmental Incidents	16
11. Site Occupancy During Construction	17
12 Demolition Phase	20
Appendix A – Environmental Action Plan Template	23
Appendix B – Phasing Plans	24

1. Introduction

1.1 Purpose and Scope

The purpose of the Construction Environmental Management Plan (CEMP) is to develop, maintain, implement, monitor and improve environmental control procedures in accordance with the relevant legal and regulatory requirements, contract specification and the TDC Integrated Business Management System (BMS) which complies with ISO 14001:2015. In particular, this CEMP is designed to support the following TDC BMS processes:

- EIW 5.0 Environmental Impact Assessment and Emergency Response
- EIW 6.0 Environmental Site Controls
- EIW 7.0 Waste Management
- EIW 8.0 Procurement of Timber / Timber Products
- EIW 9.0 Waste Carrier / Skip Company Management

This CEMP applies to Shrewsbury Academy on behalf of DfE and Marches Academies Trust.

The CEMP is applicable to all site personnel throughout the construction phase and establishes a set of specialist environmental procedures which identify the environmental impacts and detail environmental management requirements in order to mitigate impacts as identified by the client and our risk assessment process.

1.2 Objectives

The CEMP has the following objectives to assist in achieving TDC's identified responsibilities to our stakeholders; customers, society, people and shareholders:

- To ensure TDC's Environmental Policy is being implemented on site.
- To provide an effective environmental management system.
- To assist us to achieve our SustainAbilities outcomes.
- To comply with relevant legislation and contractual requirements.
- To ensure that environmental risks are effectively identified, managed or mitigated.
- To promote best working practices on site.
- To minimise the impacts on all relevant stakeholders and sensitive receptors.
- To efficiently use natural resources, minimise wastage and maximise local resource.

1.3 Environmental Policy Statement

Tilbury Douglas's Environmental Policy statement commits us to protecting the natural environment, minimising use of resources and compliance with legal and other requirements. The Environmental Policy statement is provided to subcontractors as part of our subcontract documentation and communicate to all site personnel through display on the site Environmental noticeboard



1.4 Tilbury Douglas SustainAbilities

SustainAbilities is our sustainability action plan. It is our way to put sustainability at the forefront of our decision making and to manage risks and increase our opportunities for profitable growth. TDC is involved with all life stages of the provision of buildings and infrastructure, from design to construction, operation, end-of-life and re-use.

We have set ourselves five outcomes, supported by 15 goals and 48 milestones; these inform our Environmental Management System.

1.5 Environmental Standards and Legislation

A list of the legislative and regulatory requirements is collected in the TDC Register of Aspects, Impacts, Legislation and Regulations (R205) which forms part of our integrated management system. The Register also contains guidance from other bodies such as CIRIA and regulators that are applicable for the environmental aspects and activities during the construction phase of the scheme. TDC has access to Technical Indices to maintain awareness of up-to-date standards.

1.6 Sustainability Code for Subcontractor

Our Sustainability Code for Subcontractors, (R8), is issued electronically to all subcontractors as part of the procurement procedure to ensure they understand and implement TDC's Sustainability policies. It details minimum working standards in relation to control of sustainability issues.

1.7 Environmental Competence of Subcontractors

The environmental competence of Subcontractors is assessed by TDC as part of our subcontractor selection process. This assessment includes consideration of factors including previous performance, environmental management capability to produce suitable and practical method statements and risk assessments.

2. Project Key Performance Indicators

As part of the development of this CEMP, we have established KPIs, taking into account DfE's & Shropshire Council's objectives, as well as our own SustainAbilities outcomes.

Refer to Annual Business Unit Business Plan (X60). The TDC team have targeted the following for Shrewsbury Academy :

- Local employment opportunity target from within 10miles of site
- A target of 5nr apprentice / trainee / school placements via our own works and that of the supply chain
- 50% orders placed in local community (within 30miles)

The following items will also be measured as part of the TDC monitoring;

- Minimised and monitored Fuel consumption
- Monitored Electricity consumption
- 85% Waste diverted from landfill
- 30% Recycled content
- 4nr site environmental inspections with 0 environmental incidents
- 100% of TDC staff received Sustainability Awareness training

3. Roles and Responsibilities

Project Roles and Responsibilities are determined through our Environmental Site Controls process (EIW 6.0) and detailed in the Q201 Project Management Plan "Responsibilities Matrix". TDC recognises the need for accountability and responsibility for environmental issues at all levels in our organisation. This includes the site staff and operatives (including sub-contractors), who are a key determinant of environmental performance, and the senior management who ensure that the works are undertaken in accordance with this plan.

3.1 Site Team

3.1.1 Project Manager (PM)

The Project Manager is ultimately responsible for the effective resourcing of staff to ensure that all of the environmental requirements identified in the CEMP are undertaken and also for ensuring that all construction planning and activities comply with the requirements of the CEMP.

3.1.2 Project Environmental Co-ordinator

The Environment Co-ordinator acts as the Environment Champion for the project and is responsible for the implementation of environmental management procedures, monitoring and liaison with regulators, including:

- Completion of project-specific environmental risk assessment(s) and Appendix A to this document, the Site Environmental Action Plan and ensuring actions are undertaken by the nominated parties (see paragraph 6)
- Obtaining relevant licences, permissions or consents and ensuring compliance.
- Advising the project staff and sub-contractors on environmental restrictions and mitigation necessary
- Monitoring performance (e.g. energy use, resource efficiency, near misses)
- Management of Considerate Constructors Scheme process
- Communication of environmental requirements
- Co-ordination of required environmental or sustainability training

3.1.3 Waste Manager

The project Waste Manager is responsible for:

- Co-ordinating the Designing out Waste and Resource Efficiency programme.
- Management of project Materials Management Plan and Site Waste Management Plan
- Ensuring copies of all licences, certificates and exemptions are obtained and checked on the Environment Agency, Natural Resources Wales or SEPA website prior to waste leaving site
- Undertaking waste transfer station audits if required
- Communicating waste management controls to the workforce
- Enforcing waste segregation arrangements
- Monitoring subcontractor waste performance and taking improvement action if required

3.1.4 Biodiversity Champion

The project Biodiversity Champion is responsible for:

- Ensuring all necessary ecology and habitat surveys have been carried out
- Ensuring R180b, Site Biodiversity Action Plan, if raised at tender, is reviewed, understood and actioned as part of the Environmental Action Plan at Appendix A to this document
- Ensuring all relevant licences have been obtained and are complied with
- Liaising with project ecologist(s) and regulators
- Ensuring staff receive appropriate training and adequate communications
- Ensuring appropriate mitigation measures are implemented
- Ensuring opportunities for increasing biodiversity are identified

3.1.5 Public liaison officer

The Public Liaison Officer is responsible for:

- Ensuring all relevant stakeholders are identified
- Ensuring appropriate communication methods are identified
- Ensuring stakeholders receive regular updates relating to project progress and/or changes as required
- Responding to external communications, including complaints, and taking action as required • Maintaining the communications log
- All staff receives relevant training.

3.1.6 Timber Manager

The Timber Manager is responsible for:

- Ensuring only sustainable and legal timber and paper is used on site.
- Ensuring all Requisitions specify that timber must be from a legal and well managed source
- Obtaining Chain of Custody certificates for all timber suppliers
- Ensuring all subcontractors' timber complies to project requirements
- Ensuring all delivery notes for timber and timber products are checked for compliance
- Ensuring all staff receive appropriate training.

3.1.7 Engineers and Foreman

Engineers and foremen may be the first to be notified of environmental incidents and are responsible for implementing emergency responses. They are also responsible for undertaking environmental inspections, delivering toolbox talks, identifying on-site environmental issues, and implementing relevant controls.

3.1.8 All Personnel

All TDC and sub-contract staff and operatives have a responsibility to ensure that environmental best practice is implemented on site, including complying with environmental controls, identifying potential environmental incidents and reporting any that do occur.

3.2 Project Environmental Specialists

A comprehensive team of environmental specialists will be required in order to fulfil the environmental requirements and commitments of the scheme. Although Environmental Specialists will be generally based off-site they will receive regular progress updates and be kept informed of any environmental issues and will assist and advice on specific environmental issues as relevant. The Project Environmental Specialists required for this scheme include:

- Client Clerk of Works
- Noise Specialist
- Air Quality Specialist
- Water/Drainage Specialist
- Ecologist
- Soils Specialist
- Contaminated Land specialist
- Landscape Architect

3.3 Visiting project support (Part-time)

3.3.1 Sustainability Advisor / Manager

The TDC Sustainability Advisor / Manager is responsible for supporting the project team to reduce and mitigate the environmental impact of the project, comply with legislation and contribute to environmental outcomes. Specifically this includes:

- Advising the project staff on best practice and environmental constraints
- Assisting the project team in obtaining all consents relevant to the project
- Liaising with relevant statutory bodies if required
- Providing mentoring, training and guidance on sustainability issues

3.3.2 Business Improvement Manager

The Improvement Manager is responsible for supporting the project with regard to implementation of the integrated business management system.

3.3.3 Health and Safety Advisor (HSA)

The TDC Health and Safety Advisor is responsible for undertaking regular health, safety and environmental inspections (L4). The HSA will also have regular dialogue with the site team to inform and share best practice and potential hazard awareness.

It is envisaged on Shrewsbury Academy that the HAS and PM will undertake regular dialogue with the Academy Senior Leadership Team whilst on site to liaise with them on H&S matters and undertake class, year group or whole school assemblies to ensure that the pupils understand the dangers that the construction phase can present.

4. Environmental Aspects and Control Procedures

There are many environmental aspects that have been considered during the development of the CEMP. The relevant control procedures to be used are shown in the table below. These procedures are live documents and are amended as legislation and good practice techniques dictate. Please note that this list is not exhaustive.

Environmental Aspect	TDC Control Procedure(s)
Re-use and recycling of materials Site	Waste Management Plan, R202-R10(Raw Material Selection), R202-R9 (Site Management of Materials)
Site clearance	SWMP and R202-R2 (Contaminated Land)
Waste storage and disposal SWMP	Smart Waste Management Plan
Excavated materials	R202-R4 (Excavation and Filling)
Archaeologically sensitive areas	R202-R6 (Cultural Heritage)
Control of Dust	R202-R12 (Nuisance)
Mud on roads	R202-R12 (Nuisance)
Excessive Noise	R202-R12 (Nuisance)
Run-off and Discharges to watercourses	R400-32 (Working in or near Watercourses, R80Gn. Generators with External Fuel Supply Guidance, R74Gn Permit to Pump/Discharge Licence Guidance and R202-R13 (Discharges to water Courses)
Leaks and spillages	R105 (Environmental Incident Emergency Plan) and R202-R13 (Discharges to water Courses)
Emissions from vehicles, Plant and equipment	R202-R5 Emissions to air and PMP Green Travel Plan
Demolition	PMP, Specific risk assessments, R202-R3 (Demolition)
Protection of biodiversity	R180b (Site Biodiversity Action Plan)

4.1 Environmental Risk Management

The above environmental aspects have been assessed for significance using TDC's Environmental Impact Assessment and Emergency Response Process (EIW 5.0) to produce an environmental risk register (L65). This forms part of the construction risk register and will define specific intentions and objectives to ensure that continuous improvements in environmental performance are achieved.

4.1.1 Environmental Risk Assessments

Ecological risks and mitigation for the site have been identified and recorded in R180b Biodiversity Action Plan. This, plus the location-specific environmental risks and information are used to produce the site-specific Environmental Action Plan (Appendix A).

Environmental Risk Assessments utilise Project Risk Assessment forms (R202 series and L65), and detailed available environmental survey information. Appropriate site-specific mitigation measures and controls have been identified through the Environmental Risk Assessment process and form part of the overall scheme Project Management Plan.

4.1.2 Communication of Project Environmental

Risks Relevant environmental survey information and Project Risk Assessment forms are provided to sub-contractors as part of the sub-contract information, and briefed during the Pre-start Safety and Environmental Induction Meeting (F725). Key environmental risks are included as part of the site induction.

4.1.3 Operational Controls

Environmental information and risk assessments are required to be used and considered as part of the specific environmental risk assessment and controls identified in method statements and briefed out to relevant personnel (including documents prepared by subcontractors).

4.2 Key Project Environmental Risks

The table below defines the key construction environmental risk areas which have been highlighted for the construction phase from the environmental risk assessment process:

Topic	Issue
Designated Areas	None Noted
Arboriculture	Tree protection and root protection measures as required
Air Quality	Control of site dust for school & neighbours
Cultural Heritage	N/A
Ecology	Low Risk
Flora	Low Risk
Geology & Soils	Low Risk
Waste	Low Risk
Noise & Vibration	Local Residents and neighbouring facility
Water	Discharge of dewatering and commissioning of foul
Transport & travel	Nuisance parking on local roads and neighbouring facilities. Anticipated increased travel on Corndon Crescent during the build phase at times.

4.3 Specialist Environmental Management Plans

To address the above key environmental risks, the following Specialist Environmental Management Plans have been developed:

- Groundwater and dewatering management plan
- Dust management plan
- Noise and Vibration management plan
- Tree protection plan

4.4 Ecological Management

TDC shall monitor and manage the Flora/Fauna and Wildlife on site through early inspections and site monitoring. Betts Ecology shall carry out a Bat Survey in June and inform any significant issues. However, none are anticipated.

Should this change TDC can appoint a specialist to assist the site teams and TCD can issue a tool-box talk to operatives tailored on any recommendations.



Management of surface water run off

During construction the key activities associated with surface water run include:

1. Refuelling
2. COSHH
3. Disposal of wash down water
4. Working near live storm drains
5. Waste / Housekeeping / POPS

To manage these activities the following controls will be in place

Refuelling

- Plant and equipment will have a designated refuelling area away from water courses and sensitive environments such as trees and vegetation.
- All fuel will be double bunded with a spill kit.
- All fuel will be located and secured to prevent tampering and mis-use. TD refuelling procedures will be visible in the refuelling area and will be detailed in all applicable risk assessments and method statements.
- All operatives associated will have spill kit training and be briefed on the ENV 03 Spill Response – This will familiarise best practices and escalation of alert to the relevant bodies subject to the extent of spill.

COSHH

- All plant and equipment will be inspected daily and weekly to ensure valves, pipework are in good condition.
- All COSHH items stored in the designated area away from watercourse receptors which is secured to prevent tampering and misuse.
- All COSHH items are disposed of in the designated waste disposal area (see section 5 for waste disposal).

Disposal of wash down water

- Wheel washing on site will be undertaken in a designated area which drains the runoff into a soakaway on site.
- All concrete and mortar wash out will be done using a siltbuster and not a lined skip risking preventing highly alkaline water that can kill fish and other aquatic animals.
- Never pump silty water directly into a watercourse without permission - a licence is required.

Working near live storm drains

- All storm drains will be protected with a gully guard to prevent unwanted debris and other pollutants from entering. These will be monitored and maintained through weekly inspections
- Check watercourses regularly for any significant changes or signs of pollution such as a visible oily sheen, discoloured water or dead fish
- Never block watercourses, track plant across or alter banks without permission - a licence is required.

Waste / Housekeeping / POPS

- Prevent rubbish and timber from entering the water by good housekeeping measures.
- All waste is to be segregated using the designated containers. Loose materials are to be secure to prevent uncontrolled materials leaving site
- All waste is to be removed off site by a licensed haulier to a permitted waste disposal facility to be processed
- Report all incidents and any potential hazards to your supervisor.

5. Consent Management

The Project Environmental Co-ordinator is responsible for obtaining relevant consents and licences required for the works to be undertaken as set out in TDC's Environmental Site Controls Process (EIW 6.0). The Environmental Co-ordinator will ensure that consent requirements are reflected in Method Statements, Method Statement briefings and Toolbox talks. A summary of the environmental consents which may be required for the project is detailed below.

Consent/Licence/Permission*	Issue	Regulatory Body
Trade Effluent Discharge consent	Discharge to sewer	Anglian Water
Waste Carriers Licences	Waste	Environment Agency
Mobile Plant Licence / Waste Exemption	Crushing of demolition materials	Environment Agency
Planning Conditions	General	Local Authority

*Table lists some common examples but is not intended as a comprehensive list. For further advice, contact TDC Sustainability Advisor.

6. Environmental Action Plan and Operational Controls

6.1 Environmental Action Plan

Specific environmental actions may arise from:

- Contract requirements
- Legal requirements
- Planning conditions
- Environmental risk assessment
- Biodiversity Action Plan (R180b)

Actions are recorded onto the project Environmental Action Plan (EAP), detailing owner(s) and timescales. Progress against actions is reviewed during project progress meetings. An EAP template is included as Appendix A to this CEMP

6.2 Operational Controls

Detailed operational controls such as method statements will be written for each work activity, with reference to the environmental risk assessment forms (see section 3 – Environmental Risk Management). The method statements will outline the processes, tasks and relevant quality, health and safety and environmental controls. This will include any mitigation and controls identified during the environmental risk assessment. The method statement will be reviewed by the TDC site team and will be briefed in full to site personnel involved with the task.

7. Communications

7.1 Stakeholder Communications Strategy

The project has a dedicated communications strategy set out in the Stakeholder Communications Strategy, enabling the project team to identify key stakeholders, frequency and method of communications. The strategy includes the identification of key individuals, including the client or client's representative.

7.1.1 Stakeholder Meetings

Where appropriate, meetings will be held with statutory and non-statutory stakeholders to discuss project progress, consent applications and conditions and to address relevant concerns. Such meetings will take place on an irregular basis when required.

7.1.3 Community Engagement

Where appropriate, site will engage with the community and neighbouring facilities in a range of ways. These will include;

- Social Media (Linked In or Twitter)
- Letter Drops - where there are specific requirements site will carry out letter drops
- Community Notice Board
- Local "Open Doors" Events will be utilised (Covid & School access permitting)

7.2 Internal Communications

7.2.1 Site Meetings

Regular internal project meetings are set out in the Schedule of Management Meetings and include:

- Prestart Safety and Environmental Induction Meeting (F725) (all sub-contractors)
- Site Safety and Environmental Meeting (F731) (all sub-contractors, large value sites monthly)

The Project Environmental Co-ordinator will arrange regular site environmental meetings with the Site Supervisors and others as required. The purpose will be to:

- Continually assess compliance with environmental requirements
- Determine liaison requirements with external authorities
- Assess environmental competencies and training needs
- Review environmental inspections and performance on site
- Review the findings from internal and external environmental audits
- Share best practice and accidents/near misses

7.2.2 Internal Communication Tools

Internal communication tools such as briefings, environmental alerts, posters, guides and information sheets are prepared by the TDC environment team and displayed on noticeboards / briefed to site teams as relevant.

8. Environmental Training

To ensure that environmental issues are properly addressed and controlled during the construction works, they will be communicated using the following methods:

- Site Induction
- Environmental Constraints Notecard
- Method Statement Briefings
- Tool Box Talks

8.1 Induction Process

All personnel (both TDC and sub-contract staff) working on the project must receive the environmental element of the site induction which covers basic environmental controls, specific controls relating to licence or consent conditions, and emergency response procedures. Personnel are not permitted to undertake any work on the site unless they have received the site induction.

8.2 Method Statement Briefings

All method statements, including identified environmental risks, controls and mitigation measures included in the environmental risk assessment are to be briefed out to the workforce prior to commencement of the work activity.

8.3 Tool Box Talks

Tool box talks are provided for delivery to the workforce including sub-contractors. TDC have prepared a suite of 30 sustainability toolbox talks, covering a range of topics, including:

- General environmental information
- Sustainability
- Specific topics such as working near to water, spill controls, waste management, topsoil management. Numerous toolbox talks are available for a wide range of protected species; where required, site specific toolbox talks will be developed.

Where relevant, tool box talks will be delivered when seasonally appropriate (e.g. nesting birds in early Spring).

9. Environmental Monitoring, Audits and Reporting

9.1 Monitoring

9.1.1 Company Monitoring

Arrangements TDC monitors against its project KPIs, as well as the following measures:

- Project energy consumption (electricity and diesel usage)
- Timber procurement
- Sub-contractor and supplier location
- Materials recycled content

9.1.2 Project monitoring arrangements

Detail below project-specific monitoring arrangements. Examples might include:

- Dust monitoring
- Water usage

9.1.3 Site Inspections

Work areas will be inspected weekly by members of the site team and monthly during Safety Advisor visits using the Safety and Environmental Inspection form (L4). Completed inspections are reviewed by the Project Manager with follow-up actions addressed and checked during subsequent inspections.

9.2 Site Waste Management Plan

TDC is committed to continuing use of Site Waste Management Plans (SWMP) on its projects in order to implement the waste hierarchy. The SWMP is implemented on site in line with TDC's Waste Management process (EIW 7.0). The SWMP is used to identify opportunities for elimination, re-use or recycling of materials prior to disposal. All wastes generated during the project will be tracked (ensuring legal and responsible transfer and disposal). Waste generation is recorded, with the site team reporting on results.

TDC will use the SWMP template.

9.3 Environmental Auditing

9.3.1 Auditing Arrangements

The Client's Representative will be invited to attend internal and external audits as they occur. Audits take place following TDC's Process Improvement Survey process (QA 7.0). All audit report findings and considerations will be discussed at the following site environmental meeting. The Project Environmental Co-ordinator will maintain a register of any Non-Conformances raised and will ensure close-out of every item is carried out within the prescribed time allowance.

9.3.2 Non-Conformances

Non-Conformance with the control procedures required within the CEMP will be recorded on a Non-Conformance Report (Q22b). Corrective actions will be implemented to ensure that future non-conformance does not occur.

9.4 Reporting

9.4.1 Monthly Reports

TDC reports its monthly environmental performance internally using the Project Reporting Dashboard (X62). These details include:

- Project waste production
- Project energy consumption
- Sub-contractor and supplier location
- Considerate Constructors Scheme registration and scores
- Materials recycled content

10. Environmental Incidents

TDC aims to achieve its Key Performance Indicator of zero site related environmental incidents. To ensure impacts are managed and minimised, and lessons learnt, any environmental incidents will be responded to and reported in accordance with TDC's Environmental Impact Assessment and Emergency Response process (EIW 5.0). Where situations occur that could have resulted in an environmental incident, these are reported as environmental near misses using our internal near miss reporting procedure. Significant incidents will be reported the DfE project manager. All site personnel and subcontractors will be made aware of reporting requirements.

10.1 Emergency Planning

Emergency procedures and pollution responses are set out in the site-specific Emergency Procedures Plan (L100) and Fuel & Chemical Spillage Emergency Plan (R105). Emergency plans will reference site-specific conditions such the proximity of highway/existing buildings and storm drains to the work area. In the event of an environmental incident, appropriate corrective and preventative actions will be proposed, set out and completed.

10.2 Near Misses

An Environmental Near Miss is an unplanned and undesired event that could have resulted in harm or impact. Near misses are recorded on the project near miss log and communicated across the business for learning or process improvement.

10.3 Incident Investigation

In the event of a major environmental incident, the Project Manager supported by the Sustainability Advisor will undertake appropriate environmental investigation using the Accident/Incident Investigation form (L29) and act on the findings accordingly.

11. Site Occupancy During Construction

11.1 Site Access Strategy

This section of the CEMP identifies the Construction Phase constraints and how site anticipates the management of the issues identified.

Below is a table of Access and Egress constraints and where items have been identified the mitigation for those items.

Access / Delivery Restrictions	Anticipated		Comment / Mitigation
	Yes	No	
Height Restrictions		X	None noted on site visit
Road Restrictions	Yes		No parking restrictions are in place, although to carry out the project in a considerate constructor manor the Tilbury Douglas team will be emphasising that no parking is to take place on neighbouring streets (Neville Avenue).
Waiting Restrictions	Yes		No vehicles are to wait at the school entrance, all vehicles to enter through the school entrance and proceed to the construction site entrance and haul road.
Turning Restrictions	Yes		Site access is limited and the entrance from Neville Avenue is restrictive, The Tilbury Douglas team have restricted vehicle size to rigid HGV, no articulated vehicles to access site. A secondary access through Spalding academy has been discussed with the relevant stakeholders.
Traffic management	Yes		National grid are installing a new HV to enable the schools future operation, traffic management will be in place down Neville avenue.
Parking	Yes		Parking will be accommodated on site by the formation of a site compound. TDC will ensure that subcontractors are aware that there is to be no parking on Neville Avenue.
Site Access	Yes		This site is positioned on a live School building (Tulip Academy). Access has been agreed with the client with access restrictions in place.
Site Access Hours	Yes		Site will be open and accessible at the following times: ○ Mon to Fri – 07.30 – 17.00 ○ Sat – 07.30 – 14.00 ○ Sundays and Bank Holidays - Closed
Delivery Restrictions	Yes		TDC have proposed the following restrictions to aid the school during term times. No deliveries between; ○ 08:45 – 09:15 ○ 14:45 – 15:15
Potential Out of Hours Work	Yes		It is possible that there will be a requirement for some out of hours work on the project. These are anticipated to be: ○ Concrete Pour & Power floating – limited operatives for up to 24 hrs (5 occasions) ○ Lux Level Tests 18:00 – 23:00 (2 occasions)

11.2 Site Security

TDC shall provide a gatehouse and gateman to manage the access and egress from the site. This will aid with deliveries to site, assist in the control of parking, manage visitors to the site.



TDC shall install a ballast style self-supporting hoarding and access Gate to the site. This will also have a pedestrian access should one be required. (Like that shown above) There is a possibility to utilise the existing school gates and these may be used with a sign board to direct visitors and deliveries.

The site will be installed with a remotely operated CCTV system with sensor and IR tracking system to monitor access from intruders at the full site perimeter. The CCTV operator has delegated powers to either attend with a monitoring guard with key access or directly contact the police if required.

11.3 Material Delivery

It is anticipated that there will be frequent deliveries to site. This will include.

- Small lorries,
- Larger articulated lorries,
- Site welfare deliveries
- Mobile cranes,
- Low loaders with site plant

Delivery information is also detailed in section 11.1

11.4 Site Hours, Traffic Management & Parking Arrangements

11.4.1 Site Hours

Site will be open and accessible at the following times:

- Mon to Fri – 07.30 – 17.00
- Sat – 07.30 – 14.00
- Sundays and Bank Holidays - Closed

TDC have proposed the following restrictions to aid Shrewsbury Academy during term times:

- 08:45 – 09:15
- 14:45 – 15:15

We have identified that there will be a few potential out of hours work elements that will have the potential to over-run the normal hours of work. It will likely be for the following 2 elements: Concrete Pour & Power floating. This is to facilitate the concrete slab to achieve a power float finish. The Pump will need to be set up prior to 7am to enable the concrete deliveries to arrive from 07.00. The hope is that the concrete pour will be complete by 16:00 on the day, the follow-on power floating process could last a few hours if in the weather is fine and dry, but could last throughout the night if the weather is poor or wet. There will be limited operatives and a manager for approximately 4 evenings. These dates will be communicated to the community and any immediate properties should this be needed. (See Appendix B)

TDC and our Electrician will have to carry out Lux Level Tests. This will unlikely affect any of the neighbours, but these works need to be done 1hr after dusk so could be from 18:00 – 23:00 for 2 evenings dependent on the daylight hours

11.4.2 Traffic Management

Access and egress will be managed when works start on site through a traffic management plan which will be discussed with all contractors and deliveries prior to commencement on site.

11.4.3 Parking Arrangements

Parking will be arranged on site, the parking will be located in the compound area of the construction site. Parking availability for 35 vehicles.

12 Demolition Phase

12.1 Demolition Works

- There is a large amount of demolition works that are taking place on the scheme, The existing single story main school build (FEAA) will be demolished following the installation and decant into the temporary school accommodation.

12.2 Control of the works

12.2.1 – Noise & Pollution

Dust & Blown Waste

Dust and blown waste is of limited due to our location, however, adjacent existing school and the residential properties have potential to be impacted. There are a number of site operations that have the potential to create dust, however site risk assessments and controls will limit the likelihood.

Activities of note are the demolition works; mini crushing, reduced level dig and ground build up. During these operations bowzers will be on hand to wet any areas as is needed. In addition to the water bowzers, hoses will be used to damp down any operations, which are creating dust.

Whilst the crushing operations are ongoing dust suppression inbuilt to the crusher will be utilised in addition to damping down the crushed material. Stockpiles of stone and muck will be damped down as necessary.

During normal construction activities dust will still be created, mobile water bowzers will be used to control this dust. In order to keep dust to a minimum, the existing hard standings will be utilised as long as possible for traffic routes.

All removal vehicles will be exiting site from the haul road and through the existing tarmac car park. Wheels will be washed prior to the vehicle entering the existing tarmac car park to mitigate dust and mud on the road. During large amounts of vehicle movements road sweepers will be used to manage the condition of the road.

All wagons, which are delivering and/or removing of stone/muck to have screens fitted and used. Prior to leaving site all wheels to be jet washed should they be required, and materials removed from between wheels if necessary. We will not deploy water-based cleaning methods if not needed due to excess water potentially creating slurry build up.

There will be no dry cutting allowed on site.

Burning of material will not be permitted for any reason.

12.2.2 – Lighting

Due to our location Light is of limited concern, we are mindful of the adjacent residential properties. All of the site lighting will be unobtrusive to ensure that no light is spread to unwanted areas.

As per the recommendations of HSG 38 and the ILE Guidance notes for the reduction of unobtrusive lighting, all lighting will be inspected ensure it is working and to these requirements, cleaned to ensure correct lighting levels are maintained and to be turned off when works are not being undertaken.

Periodic reviews of the lighting strategy will be undertaken to ensure compliance with site constraints.

All complaints will be recorded, and actions taken immediately to mitigate complaints.

12.2.3 – Noise

Noise assessment has been taken prior works commencing and can be assessed throughout the construction activities as required by site and environmental risk assessments.

Site hours will be adhered to unless impractical like power floating of concrete slabs as noted in section 11.4.1

All noisy activities will be identified prior to the commencement to the base for distribution for all stakeholders. Items such as piling and power floating will be communicated to local residents so that they are aware of the potential noise issue. Activities which will create noise are:

- Demolition of buildings & hard standings
- Crushing of concrete
- Piling
- Power floating of slabs
- Installation of sub base using rollers etc.
- Steel installation.
- Cutting of steel.

There will be a turn off policy for static plant reduce noise and emissions All plant to be maintained regularly to reduce noise and emissions. Permanent power (site 110volt) to be used where possible to reduce the noise from generators and has been proposed to be used from the former Primary school.

Generic noise and vibration measures to be used include:

- Construction equipment will be carefully selected so as to comply with noise limits contained in relevant EC Directives
- Equipment will be well-maintained and will be used in the mode of operation that minimises noise
- Equipment will be shut down when not in use
- Equipment fitted with enclosures shall be operated with such enclosures in place at all times
- Vehicles shall not wait or queue with engines running
- All materials will be handled in a manner that minimises noise
- Generators and compressors will be located as far from noise sensitive receptors as reasonably practicable
- Super-silenced generators and lights will be used should they be required.
- All complaints will be recorded, and actions taken immediately to mitigate complaints.

12.2.4 – Wheel Cleaning

As most of the site is currently tarmac, jet washing won't be necessary for much of the project but should the site get to a point where excess mud/debris is covering the road then we will arrange for a jet wash to be made available with the gateman.

Road sweeper washout will either be offsite and called upon during key elements such as groundwork's or at times of prolonged inclement weather.

12.2.5 – Foreign Object Damage

The following will be utilised if required;

- All light materials to be weighed down to ensure they cannot be blown around
- Materials such as cement to be bagged/covered
- All waste materials to be disposed of immediately in the correct skip or bin
- A secure fenced area will be utilised to collect skip spill items.
- Materials to be stored in such a way as to prevent the possibility of being blown
- If you see waste material, which has a potential to become a FOD issue pick it up

Appendix A – Environmental Action Plan Template

Classification (if unclassified select blank from dropdown) : Please Select

Ref. No.	Objective	Action	Responsibility	Reference to Further Information	Progress and Further Action	Sign off and date
Pre-construction						
1	Reduce noise	Consider manufacture off site options or material selection	(Design Manager)			
2	Reduce dust	Consider manufacture off site options or material selection. Ensure design is fit for purpose to reduce on site modifications	(Design Manager)			
3	Reduce Waste	Consider manufacture off site options or material selection	(Design Manager)			
During construction						
1	Reduce noise	Tool selection, early ordering of materials and supply chain engagement.	PM/QS			
2	Reduce dust	Tool selection, early ordering of materials and supply chain engagement. Materials to be delivered to the correct lengths (e.g.)	PM/QS			
3	Reduce Waste	Early supply chain engagement. Thorough checking to ensure job is done right first time.	PM			
4	Reduce Energy Use	Correct welfare selection. Early site establishment with mains connection. Display green travel information throughout site and actively encourage workforce to make better journey selections.	PM			

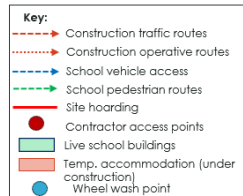
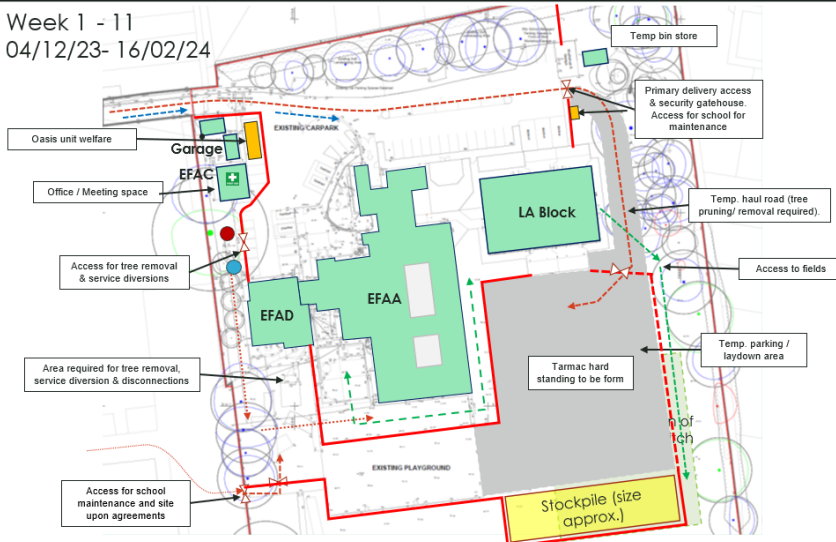
Appendix B – Phasing Plans

Construction Phase plan of the works. (All dates subject to Change)

Section 1 Site establishment (incl. services)



Week 1 - 11
04/12/23- 16/02/24



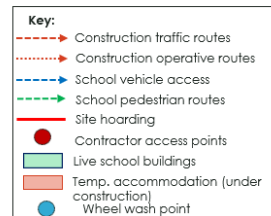
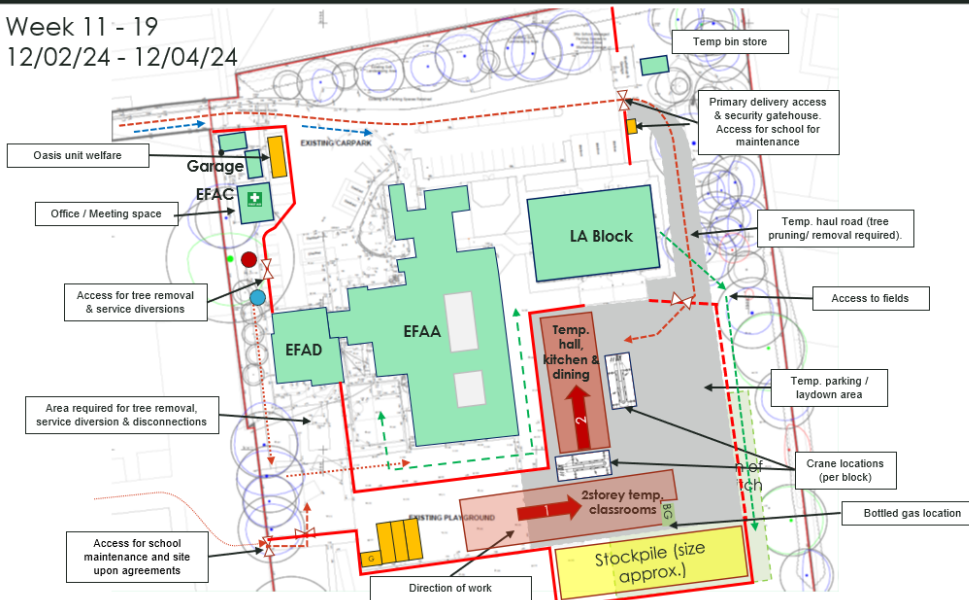
Notes

- Potential tree pruning and/ or tree removal required for access route via back of LA Block. To be undertaken before bird nesting season.
- Min. 2m access required between temp. accommodation and site hoarding.
- Alternative parking available for operatives at Holland Road car park.
- A strict policy of no parking on adjacent residential streets will be implemented. This will be agreed during the SC procurement process and written into the relevant SC orders.

Section 1 Temp. Accommodation (incl. services)



Week 11 - 19
12/02/24 - 12/04/24



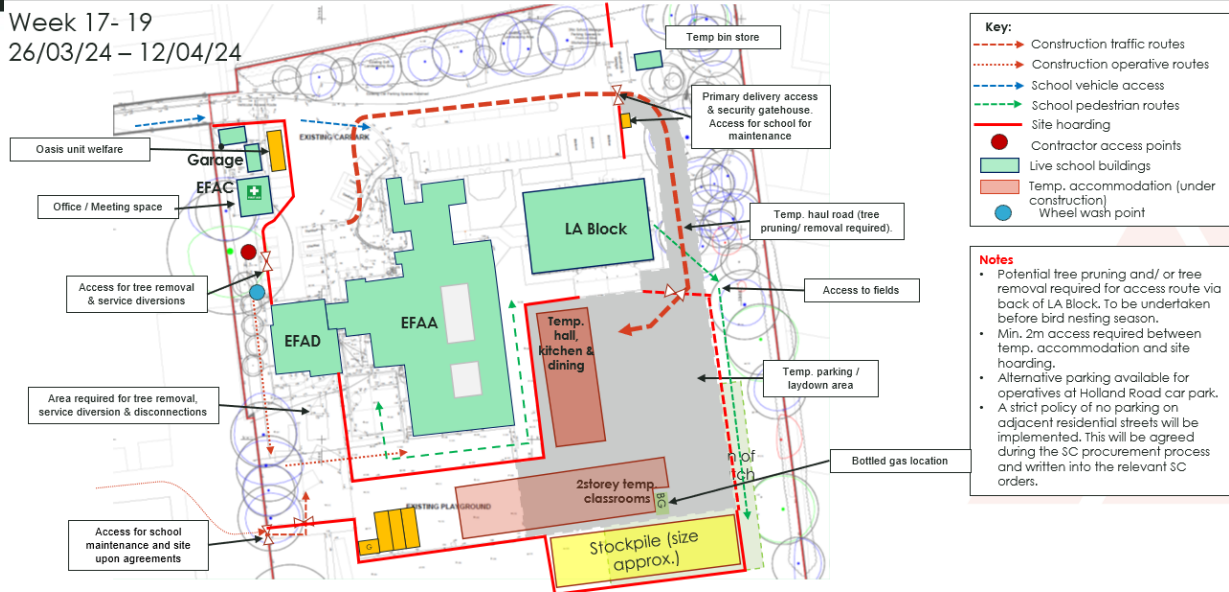
Notes

- Potential tree pruning and/ or tree removal required for access route via back of LA Block. To be undertaken before bird nesting season.
- Min. 2m access required between temp. accommodation and site hoarding.
- Alternative parking available for operatives at Holland Road car park.
- A strict policy of no parking on adjacent residential streets will be implemented. This will be agreed during the SC procurement process and written into the relevant SC orders.

Tulip Academy - CEMP

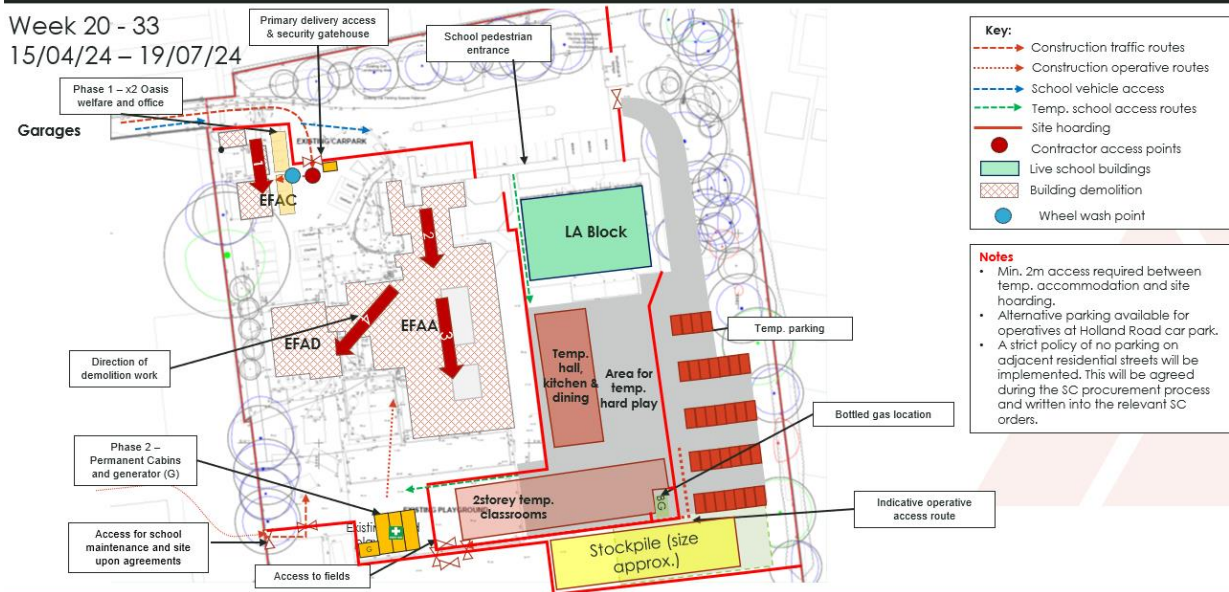
Decant Period – School to Temp accommodation

Week 17- 19
26/03/24 – 12/04/24



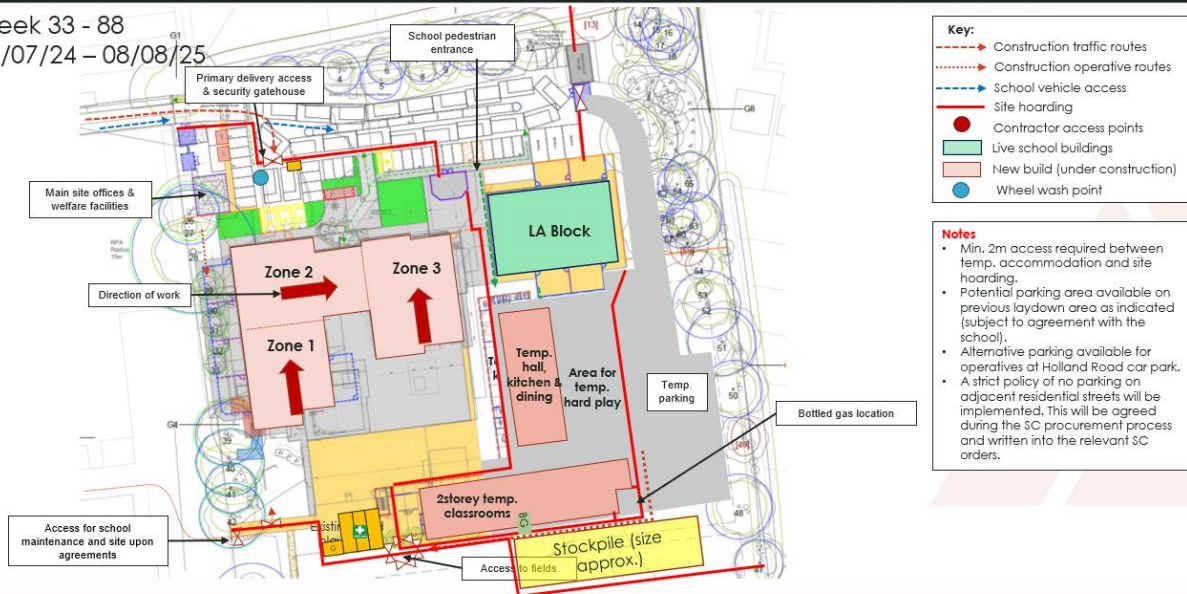
Section 2 Demolition

Week 20 - 33
15/04/24 – 19/07/24



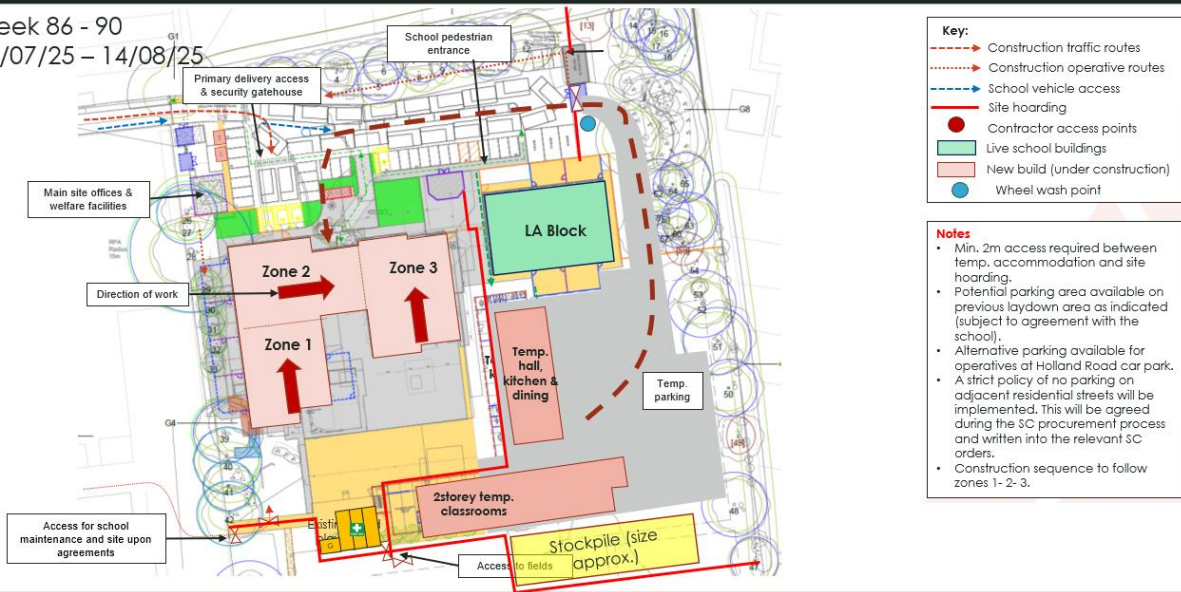
Tulip Academy - CEMP Section 3 New Build

Week 33 - 88
26/07/24 - 08/08/25



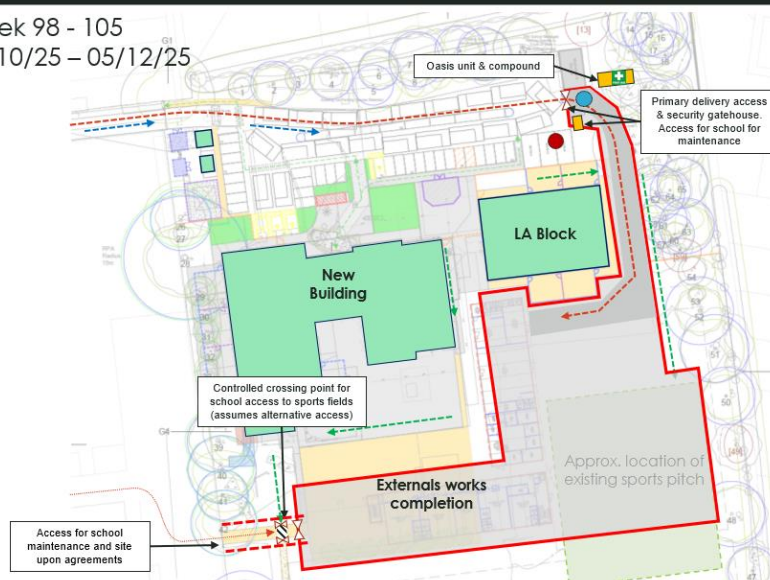
Decant Period – Temp accommodation to school

Week 86 - 90
25/07/25 - 14/08/25



Section 5 Completion of Externals

Week 98 - 105
13/10/25 – 05/12/25



Key:

---	Construction traffic routes
---	Construction operative routes
---	School vehicle access
---	Site hoarding
●	Contractor access points
■	Live School Buildings
●	Wheel wash point

Notes

- No site parking available. Operatives to use Holland Road car park.
- A strict policy of no parking on adjacent residential streets will be implemented. This will be agreed during the SC procurement process and written into the relevant SC orders.

