22ND OCTOBER 2019

English Martyrs Development



Construction and Environmental Management Plan

17/08/ 2019 - CEMP for English Martyrs development Walley Range

The Site

The site is located off Alness Road, Walley Range, M16 8HW:



The Site Contact:

Pre-construction Contact – Mariam Al-Bayati

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Construction Contact/ Project Manager - Ibraheem Al-Bayati

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The Project

Erection of 4no. two-storey, four bed dwelling houses with accommodation in the roof, with associated parking, boundary treatment, and landscaping with vehicular access from Alness Road, following demolition of the existing tennis club house.







Preconstruction Activities:

We have listed below some key preconstruction activities/risks to be considered. The list is not exhaustive and would be developed by project team.

- Demolishing of existing Club house, This will include disconnecting services.
- Site layout, with predistortion access, welfare cabins and skips, site will be secured by a hoarding and access gate.
- Risk of environmental harm to the surrounding properties/drains/highways.
- Review the control of vibration, noise and air quality/dust control.
- Working around live services.
- Producing a Traffic Management Plan – approvals, permits, licenses loading out, deliveries, skip location, avoiding congestion, access routes, emergency vehicle access, pedestrian and vehicle segregation, refuse collection and the like.
- Produce a Fire Assessment and associated Fire Plans.
- Complete the Project Construction Health, Safety and Environmental Plan.
- Consideration of the use of Local labour and suppliers.
- Put in place a Planning Matrix, Building Control Matrix.
- Check the existing Topographical level and manhole levels.
- Undertake Dimensional surveys and M+E surveys.
- Ensuring the public are not put at risk and maintaining safe access around the outside of the site boundary.

Construction Program:

Our summary construction program for the works is appended to this document.

The anticipated start date is September 2019.
The construction end date is June 2021.
The date of first occupation is June 2021.

The works will not be phased and the block will be handed over as a full project.

Community Project and Employment of Local Labour

We will ensure that the employment of local Labour and apprentices is provided on this contract. We understand the importance of using local labour and materials in order to lower our carbon footprint and improving sustainability.
Our company will be aiming to maintain the ethos of social responsibility and this is something we will review regularly.

We have already begun this by helping Whalley range cricket and tennis club with installation of advertisement signs.

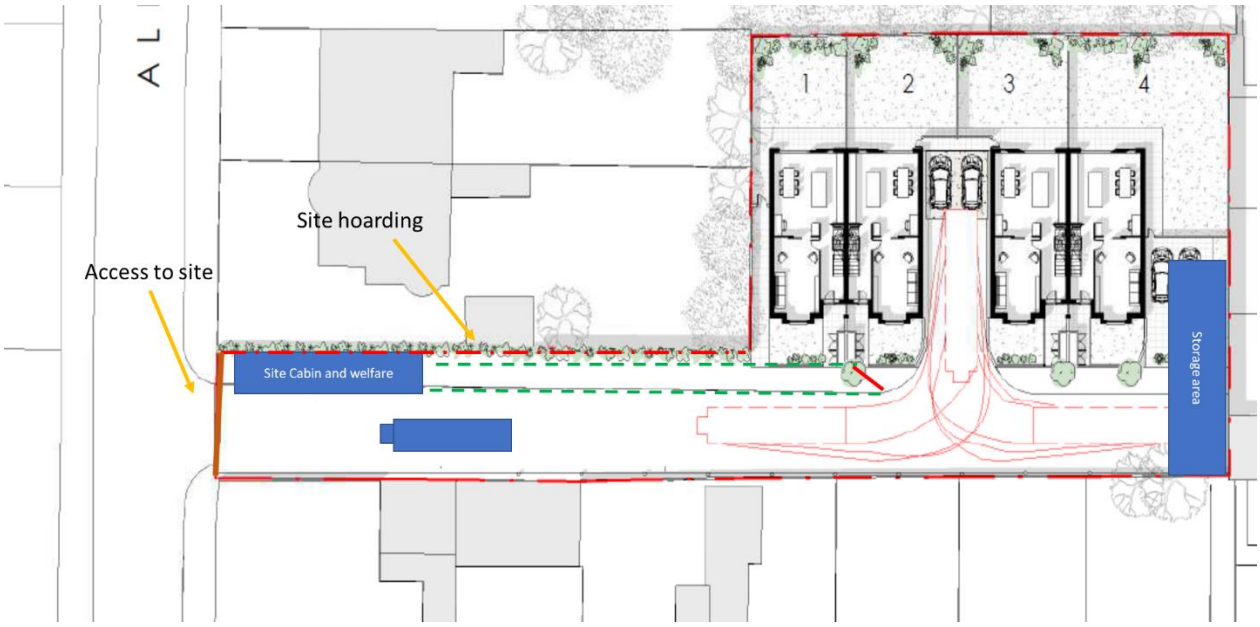
Operational Control Measures:

Mai Construction Site manager will maintain contact with residents/businesses in the immediate area so that any concerns on environmental impacts may be addressed at an early stage.

Neighbours will be informed prior to starting any works on site.

Access to the Site:

Access to site will be through Alness road. A new access gate will be installed to secure the site. Deliveries will be driving in, offloading and then turning around to leave site. Pedestrian segregation will be in place for site workers. All drivers and visitors will be reporting to the site office first.



Health and Safety

Matters of Health, Safety and Environmental issues are approached proactively by Mai Construction Managers and are a cornerstone of our Management System. All proposed methods of working will be given detailed consideration to ensure that they contribute to create a safe zero accident environment on site throughout the contract.

Mai Construction will assess the potential environmental impact of the works upon the locality as part of standard pre-start procedures. Issues related to traffic flow, pedestrians, noise, dust, contaminated material, road cleaning, disposal of water, general nuisance and the like will be reviewed and all external Parties involved to ensure that all necessary measures are understood and can be implemented during the course of the works.

The local Police Authority, Fire Brigade and Local Authority Highways Agency will be informed of the project and the construction sequence. It is Mai Construction intention to maintain a regular and close contact with all interested parties throughout the construction process.

All waste materials that leave site are recorded and monitored and where possibly materials are recycled. A monthly report is produced to monitor the actual percentages of recycled materials against our targeted percentages.

Precautions to be Taken to Ensure the Safety of the General Public

HSG 151 Protecting the Public –Your Next Move:
The Law says you must conduct your business without putting members of the public at risk. This includes the public and other workers who may be affected by your work.
The construction site requires measures to manage access through defined boundaries and steps to exclude unauthorised people. We will ensure that we provide all the required works to make the site safe.

Managing the Site

Site boundaries: The site will be surrounded by hoardings during construction works.



Determining the boundary is an important aspect of managing public risk. We will consider planning what form the perimeter will take, provide the fencing and maintaining the fencing.
Questions asked will be:
What is the nature and type of the construction work?
How heavily populated is the area is?
Who will need to visit the site during the work?
Will the site attract children?
What are the site characteristics e.g. existing site boundaries, location, proximity to other buildings?
Typically, in populated areas, this will mean a two-metre high hoarding around the site.

Authorisation: The project manager must take reasonable steps to prevent unauthorised people accessing the site.
People may be authorised to access the whole site or be restricted to certain areas.
We will explain the relevant site rules to authorised people and do a site safety induction.
Where required we will supervise/accompany authorised visitors while they are on site or visiting specific areas.

Hazards causing risk to the public - Many hazards have the potential to injure members of the public and visitors. Consideration of these risks and whether they exist on this project and how they are managed will be recorded.

Delivery and other site vehicles – We will ensure pedestrians cannot be struck by vehicles entering or leaving the site. All delivery's will be offloaded on site. Delivery wagon to drive in and make a U turn offload and drive out.

Storing and stacking materials - We can reduce the risks associated with the storage of materials by storing materials within the site perimeter, in secure compounds or away from the perimeter fencing.

Openings and excavations - People can be injured if they fall into excavations, manholes, stairwells or from open floor edges. Adequate safety barriers and safety signage or covers will be used.

Other hazards include -Slips, trips and falls within pedestrian areas, plant machinery and equipment, hazardous substances, electricity and other energy sources, dust, noise and vibration; and road works.

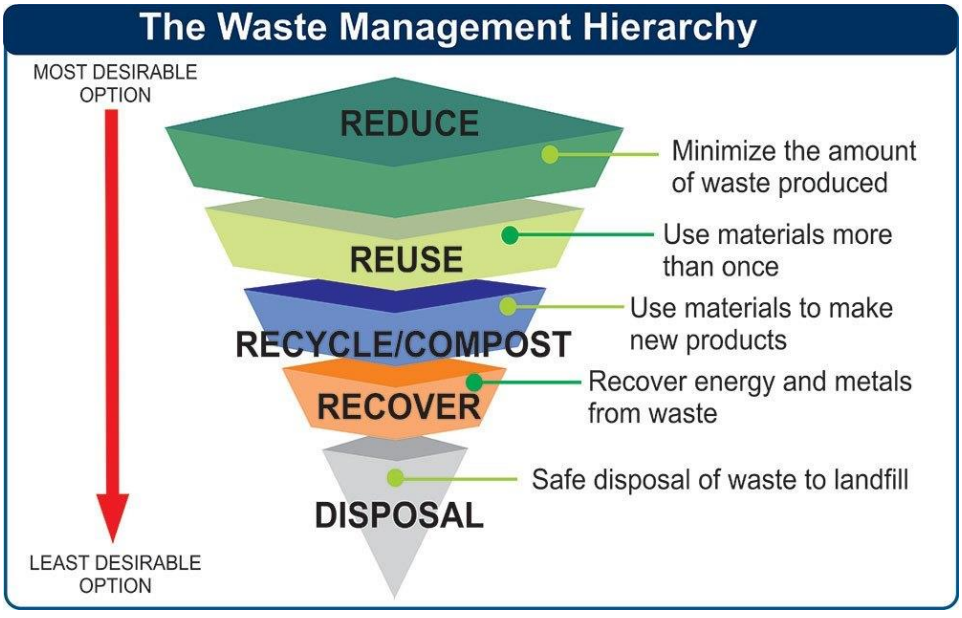
Vulnerable groups -The elderly, children and people with certain disabilities may need special consideration as they may not fully appreciate the dangers of construction works. Some children are drawn to construction sites as exciting places to play, so we have a duty to do everything we can to keep them out of the site and away from danger.

The following specific steps are particularly relevant to child safety; secure the site adequately when finishing work for the day. Barrier off or cover over excavations and pits. Isolate and immobilise vehicles and plant and if possible lock them in a compound. Store building materials such as pipes, manhole rings, and cement bags so that they cannot topple or roll over. Remove access ladders from excavations and scaffolds and lock away hazardous substances.

Waste Management

A standard waste management plan will be implemented

Mai construction will ensure that enough time and resource is allocated to ensure, (a) The effective coordination, planning and organisation of waste. (b) That a good management and coordination structure is in place. (c) That effective procedure's for monitoring & communication are in place. (d) That suitable induction/further training needed is provided for all operatives.



For waste management pre construction see appendix 1

Environmental Monitoring

The main areas covered by this Construction Environmental Management Plan include the following, plus details of the baseline monitoring that will be carried out and the mitigation measures to be implemented prior to works commencing.

- Pollution to include surface water quality
- Air quality to include dust, volatile organic compounds and airborne asbestos fibres
- Vibration
- Noise
- Ecology

Daily measurements will be undertaken using real time/ visual/ olfactory methods during periods when remediation works are being undertaken and the monitoring frequencies are likely to be increased (up to several times daily) depending on nature of site works.
These methods (vibration by RDL/Vibe; directional dust by DustScan etc) are required to assess compliance with short term exposure standards and address problems early on. Timely action can be taken to prevent complaints and avoid causing concern for those working in the vicinity of the site.
Within the site boundary dust monitoring shall be carried out by the use of Frisbee type gauges (directional dust) at the predetermined locations. A visual assessment of fugitive dust emissions and a subjective assessment of odour strength and character at offsite locations will be undertaken.

A summary of the environmental monitoring and sampling is presented below:

Activity	**Locality**	**Number of Monitoring Points**	**Location Reference**	**Frequency**	**Notes**
Air Quality	Site boundary Off site Soil quarantine and deposition areas	3 2 TBC	AQ1, AQ2, AQ3 AQ4, AQ5 TBC	Daily/Continuous Daily Daily/Continuous	Dust recorded by Frisbee Gauges. Dust recorded by visual assessment. Air monitoring for airborne asbestos fibres in accordance CAR 2012.
Vibration	Site boundary	2	VB1, VB2	Daily/Continuous	Measurement and evaluation of vibration shall be in accordance with the guidance given in BS 7385-2: 1993 for 'control' monitoring.
Noise	Sitewide	4	NM1, NM2, NM3, NM4	Daily	Recorded by handheld sound level meter. Proposed target noise levels not to exceed 5dB above the measured baseline values determined by CPUK.
Pollution	Water Holding Tanks	1	WQ1,	Daily	Water sampling and analysis. Visual daily check of water quality ie coloration, flow, sedimentation etc before discharge via sewer

Surface Water Control

Where deemed necessary the following measures will be put in place to ensure that the risk of surface water runoff across the site boundaries is minimised; silt fences or drainage grips will be used to prevent uncontrolled run-off containing elevated suspended solids being discharged from the site.
We will use surface water arising from the site for dust suppression. However, any surplus water will require a discharge consent in order to dispose of it to sewer. It will be Mai Construction's responsibility to obtain such consent and no discharge to sewer will be undertaken without written confirmation of such consent from the local utilities company. Any surface water to be removed from the site will be placed in a holding tank and subject to audit testing before disposal. It will be accurately recorded in terms of date, time, quantity and quality of discharge and such records will be maintained at all times and copies made available upon request. Mai Construction shall develop a Surface Water Management Strategy prior to the works commencing in order to demonstrate its competent best practice approach for the control of surface water, the control measures to be implemented and the actions to be taken in the event of non-conformance during the work activities on site.

Air Quality

In order to mitigate the impact of dust generating activities, site specific measures in accordance with GLA best practice guidelines will be implemented.
A Risk Assessment (RAMS) and associated Method Statement will be developed for all activities involved in the works and these measures will be incorporated in the Works. Generation of unknown odours may be unavoidable during excavations.

All cutting of blocks, concrete, tarmac and the likes will be done with wet cutting equipment fitted with dust suppression kits in protected designated area. Suitable PPE will be worn

Asbestos cement panels will be removed in full and placed in sealed in double bags. During removal water will be used to wet the panels to air borne asbestos fibers. The bags will then be disposed of appropriately.

All personnel will be reminded of good practice and standards through a series of "Toolbox Talks" and Safety Inductions.

Noise and Vibration

Noise and vibrations will be monitored. There will be movement of small plants on site and site hours will be observed.

Dust Control

Water will be used to dust down during demolishing of the club house. The club house will be demolished in sections to control dust.
Works will be stopped if acceptable measures are not in place or being utilised. Dust control measures will include as a minimum the damping down of the site with water during periods of dry weather and when excavation works are undertaken.
The following monitoring works shall be undertaken by Mai Construction:

- Daily visual and odour diary.
- Weekly monitoring of dust sitewide and at receptor locations.

- Occupational dust monitoring at the down-wind boundary of the site, for total inhalable and respirable dust.

Based on a subjective assessment, if dust levels are a nuisance sitewide; especially at the site boundary, then contingency measures for dust control shall be implemented.
Monitoring data from the site will be compared to exposure standards, which form the basis of the trigger levels. If the trigger levels are exceeded, then Mai Construction will re-assess the working practices on site.
Trigger levels will be set according to 2 levels of control as follows:

- Level 1 - To protect workers on site, based on occupational exposure standards. Parameter measured being close to or at the exposure standard. Action will be to investigate reasons and modify ongoing works.

- Level 2 - To protect nearby sensitive receptors. Parameter above exposure standard. Action will be to stop the site works, investigate the reason and modify ongoing works.

Table 2 Environmental Monitoring Levels

Activity	**Trigger Value**	**Source**
Environmental monitoring of vapours (as benzene /naphthalene)	5 µg/m3	EA H1
Monitoring of airborne asbestos fibres	0.1 fm3	HSG 248
Vibration - PPV	1mms-1	BS7385-2

Temporary Site Lighting:

Temporary lighting will be required outside of site welfare. This will be just a small light operated by IPR censer. LED flood lights will be required during construction of structural work. This will be fixed to low level ground stand and turned off at the end of the shift. Internally small task lights will be used inside the houses as and when required and it will be switched off at the end of the shift.

Construction Programme

We have attached our Construction programme (appendix 2) which shows stages of works.

Method Statement for the Works

The Site:
The site is located on Alness Road in Whalley Range, M16 8HW:

Access to the sites is on Alness Road. Access must be maintained at all times to the surrounding roads and properties.
A view of Alness Road with access road with gates to the right:



The site boundary is shown on architect's drawing:



The site entrance will be used for both inbound and outbound delivery vehicles of various sizes from Sprinter type vans up to articulated lorries, as well as staff, visitors and deliveries to the site.

Site Start Up Strategy:

Mai Construction will ensure a 'Letter Drop' to all the surrounding properties is untaken several weeks prior to the works commencing, this will allow time for the homeowners, Stakeholders and Retail Owners/tenant's to contact Mai Construction and for us to meet with them to discuss any concerns they may have.

Protective clothing and equipment will be provided and maintained on site for the Client and other visitors to the site.

A self-contained welfare unit will be used.



Fire escape routes and emergency vehicle routes will be maintained along with segregated pedestrian access routes through the site entrance.

A secure solid 2 metre high hoarding will be erected to the compound and site areas with safety, way finder, advertising and information signs clearly displayed. The secure fencing will be erected in line with the designated site boundaries and will segregate construction activities and construction traffic from the general public and on site personnel whilst maintaining full access/egress for deliveries, staff, refuse collections and visitors. Pedestrian routes through the construction site will be demarked with barriers.

The solid hoarding can be painted any colour and have advertising boards fixed to it.

We will undertake a below ground utility survey of the site to ensure any existing services remain unaffected by the temporary compound/cabin location.

The Construction Works:

Our aim as the Principal Contractor is to ensure the project is managed to achieve a target of zero accidents and zero risks to health. Good communication and liaison between the Client and Mai Construction is critical to the smooth running of the contract and avoiding any potential risks or disruption to the costs or construction period. Daily liaison will be established between Mai Construction and the subcontractors. We will hold regular safety and co-ordination meetings with all contractors and sub-contractors working on the site and ensure there is a flow of information between all parties regarding the health and safety and quality on the project.

Construction Health and Safety Plan:

The Construction Health and Safety Plan will be presented to the Client no later than three weeks prior to the commencement on site. Works will not start until the Client has confirmed in writing that the Construction Phase Health and Safety Plan is sufficiently advanced for the works to commence.

Adequate safety fencing will be used



All material and subcontractor orders will contain a directional map to the site. The orders will clearly indicate the project Managers name and mobile phone number and confirmation there is no parking facilities on the site.

A weekly schedule of deliveries will be produced two weeks in advance of the works; the schedule will have delivery times clearly stated on it and it will be issued to all parties.
The day before a delivery is due the Project Manager will contact the delivery companies to confirm they will be arriving at their allocated time.
All deliveries will be planned and coordinated in advance to ensure there is access and safe transportation to the construction site. Where possible deliveries should take place to miss peak traffic times.

Construction Strategy:

Delivery routes to the site will be suitably sign posted as necessary to minimise local disruption. A schedule of deliveries will be produced and a schedule of key programme dates will be issued and reviewed.

The site will be CAT scanned, trial holes excavated to positively locate known services and the invert levels of all the drains will be confirmed.

Clear and safe access will be maintained at all times to the entrance of the new dwellings and to the site. They will be maintained with adequate safety fencing and signage being put in place.

An external scaffold will be erected around the houses where Works to the external areas will be untaken during the day.

A weekly site logistic plan will be produced and discussed with all parties in advance of the works commencing.

The sequencing and challenges of the external works is high risk. In summary the key items to be considered and the risks mitigated are:

- Ensuring there is as little disruption to the existing residents/road as possible.
- Avoidance of trip hazards.
- Secure and safe transportation of operatives, materials and plant from the compound to work areas.

- Ensuring the public do not come into contact with construction works, excavations, plant or operatives.
- Ensuring the public do not gain unauthorised access to the site areas.
- Clear Way finder and safety notices.
- Adequate Safety fencing and pedestrian routes.
- Radio communication – this allows one point of contact to deal with any issues safely and swiftly.
- Avoiding damage to the existing footpaths, trees, buildings and car parks.
- Avoiding damage to the existing services/drains.
- Maintaining delivery/collection and all access routes to the adjoining buildings and roads.
- Providing adequate noise, vibration and dust suppression. Use of acoustic screens if required.
- Informing staff and operatives on how to deal with the Public, residents and visitors.
- Maintain fire escapes and emergency vehicle access routes at all times.
- Clean and tidy work areas and access routes.
- Out of Hours working to be worked to ensure accesses are maintained.
- Full time supervision of the quality.
- Consideration of Environmental restrictions; noise, vibration and the like.

The proposed Hours of working

Mai Construction hours
Monday to Friday 8.00am to 6.00pm.
Saturdays 8:30am to 2.00pm

Fire Prevention:

We will comply with Joint Code of Practice 'Fire Prevention on Construction Sites', published by the Construction Confederation and The Fire Protection Association (The 'Joint Fire Code').
A Fire Risk Assessment will be undertaken prior to any works commencing and developed/reviewed as each construction phase changes the works.
A member of staff will be appointed as the Site Fire Marshall.
All 'HOT' works will be undertaken only with a hot works permit.
During the working day a fire strategy and fire plans will be updated weekly as the construction works change.

Security

Security of the sites will be by means of robust solid security fencing installed around the construction sites where possible. Safety signage, emergency signage and way finder signage will be clearly displayed.

Measures to control the emission of dust and dirt during construction including the deposit of extraneous materials on the highway.

The Site manager will take noise readings for any new plant brought to site or any noisy operations. The readings are recorded on the Noise register. From this information it is incorporated into the RA and SWMS documents for the works to be carried out on site.
We would propose to employ subcontractors for the excavation works, stoning up, foundations and ground works. These activities are the ones that need to be controlled and

monitored so daily inspections of the site entrance and public highway will be undertaken and a photographic record taken of each inspection.
Each subcontractor will be responsible for providing a banksman, an operative, and an attendant road sweeper as required for the duration of their works. They will be tasked to keep the site entrance and public highway free of mud and debris at all times. Wagons leaving the site will have any debris removed from their wheels by the operative. This debris will be placed into stock piles for removal at a later time.
The operative will ensure the footpath is kept clean at all times and an attendant road sweeper will be available to clean the road should any debris get onto the public highway. The road sweeper will also periodically clean the existing road gullies adjacent the site entrance.

At completion of the works a road sweeper with a gully sucker attachment will clean the existing road gullies adjacent the site entrances.

Mai Construction will ensure that noise control complies with the recommendations of BS 5228-1, in particular clause 7.3, to minimize noise levels during the execution of the works. Noise testing will be completed as works commence using the Site Managers noise meter reader and controls will be put in place where noise exceeds 85 dB(A) when measured from the site boundary. Mai Construction will ensure that where required, compressors, percussion tools and plant are fitted with effective silencers of a type recommended by manufacturers of the compressors, tools or vehicles as an immediate control at the source. Additional controls such as acoustic screens will be used to contain the noise if required. Radios or other audio equipment will be prohibited and Mai Construction will not permit employees to use such equipment whilst on site.

It is not envisaged that dust will be an issue other than dust created as a result of the weather conditions (dry and windy). Where weather conditions create dry ground conditions and wind creates dust then dampening down techniques will be employed to prevent circulation of the dust.
Where dusty operations are undertaken on site the dust will be controlled at the source by using extraction techniques and hoovering up as opposed to sweeping up dust will be advocated.
All cutting of blocks, concrete, tarmac and the likes will be done with wet cutting equipment fitted with dust suppression kits.
To prevent nuisance from dust and debris, we will apply methods to prevent dust and debris getting outside the site boundary, we will prevent dust at levels which could cause respiratory and visibility difficulties to passing vehicles and pedestrians, prevent build up and damage that could be causes to adjacent surrounding buildings. Temporary screens and the like will be used to ensure everything is contained within the site. Where necessary covered skips will be used.
The Project Manager for this project will be a competent person who has successfully completed all the necessary courses to make him competent for this role.

The Project Manager will review daily the condition of the site and he will check on regular basis to ensure all works are progressing safely and comply with the risk assessments/method statement.

Demolishing of existing club house

The club house has 2 parts. The first part has been built from bricks and a flat roof. The second part is timber frame and a pitched roof. The timber frame has been cladded with asbestos cement panels.
The asbestos will be removed and disposed of before any demolition takes place according to the HSE guideline A36 & A0.
Power and water sources will be isolated before demolition, (there is no gas main on site).
Debris netting will be installed and dust suppression system will be used during demolition.
The club house will be demolished in small sections using a small excavator.
A permit to demolish will be put in place before commencement.

Ground Improvement and Substructure

The geo environmental report showed a low risk of contamination on the land, therefore strip foundations will be used. Concrete will be poured directly from the wagon.

An application will be completed for United Utilities regarding sewer connections

Under slab drainage and ducts will be installed after the foundations are complete.

Superstructure Works

Materials will be generally distributed by a mechanical use fork lift truck. Materials/plant will be loaded onto scaffold loading bays.
When the foundations are completed the sub-contractor will erect the traditional brick and block work, scaffolding will be used where necessary.

Roofing and Walls

Roofing is a high-risk activity and therefore one that will be given particular attention from procurement to installation. Installation proposals will be covered in a detailed method statement and risk assessment, which will be reviewed and agreed by all parties in advance of its commencement.

The Roof and wall finishes will be designed, supplied, and installed by specialist subcontractors. Scaffolding edge protection and will be provided by utilising an external scaffolding fixed around the building envelope at eaves level.

Access to each of the roofs will be by means of external staircases.

Windows/Doors

Installation of glazing will follow closely after the completion of the external envelope; this will further aid in weatherproofing the interior areas.

Material handling and installation will be by means of a forklift/scaffold will be used for access.

Internal Finishes

The internal walls are to be constructed of studwork. These will be built from a standing scaffold with access ladders and loading bays or alloy towers. All other internal finishes detailed in the Agreement to Lease will then be installed.

External Works

The external works to the perimeter of the development will commence to suit the general constraints of the construction programme, whilst taking due consideration of any Local Authority or surrounding user requirements.

Site Liaison and Meetings

During the mobilisation period and all during the construction works communication and liaison between all parties will be key to a successful contract. By forming close links with the Client and residents, we will get a clear understanding of their daily routines and concerns, thus allowing us to work with them to avoid any disruptions to their everyday operations and they will get an understanding of the construction process, programme dates and our delivery requirements.

Daily and weekly meetings will be held to review the construction programme, key dates and the duration of each construction activity will be discussed and the implications on the surrounding areas of the site can be assessed. This will allow the risks to be considered, a risk register produced and the preventative controls put in place prior to the works being undertaken on site.

All construction personnel will have a specific induction on how to deal with the public, residents and visitors.
We will ensure that we are aware of any local planned events during the construction works. To avoid any interruption to these local planned events then good planning and communication is essential. By discussing these events early we can all work together to understand which construction activities and deliveries are happening and then assess the risks and put in place risk mitigation measures.

It is essential that we comply with all the Health and Safety requirements especially whilst working outside our site boundary between the separate site areas. Good programming, communication, RAM's and a knowledge of the surrounding building uses will help prevent any incidents/accidents.

The use of VHF radios will be used to aid communication between the site offices, compound, site areas and the banksmen.

If an incident takes place then the works will cease whilst the incident is investigated and corrective measures introduced so that it cannot happen again.

Quality Inspections/ Handover and Aftercare Management

Mai Construction will strive to achieve a Quality Management System and we will enrol all of our subcontractors and suppliers into achieving a high standard of quality. We hold prestart quality meetings with all our subcontractors before they start on site and we hold 4 weekly quality meetings throughout the contract.

Time has been allocated during and at the end of build sequences to enable the Client/Designers to inspect the works and if necessary any remedial works will be undertaken immediately. The quality inspections will be progressive to give us all time to inspection/snag out the works prior to handover.

On Completion of the Works

Mai Construction will co-ordinate the design team, sub-contractors and their designers to ensure they produce final issue / as build records and drawings, along with sufficient information relating to the design of the structure, its construction and maintenance to satisfy the requirements of the Health & Safety file / Operation & maintenance manuals.

Appendix 1

SITE WASTE MANAGEMENT PLAN PRE-CONSTRUCTION			SHEET NO 1	S.W.M.P NO	EM 01
PROJECT NAME	ENGLISH MARTYRS	PERSON FILLING IN THIS FORM	IBRAHEEM AL-BAYATI	PROJECT START DATE	02/09/2019
CLIENT	AL-BAYATI	DATE SWMP PREPARED	24/08/2019	PROJECT FINISH DATE	26/03/2021
SITE LOCATION	ALNESS ROAD	PROJECT PHASE	PLANNING PHASE	INITIAL COAST ASSESSMENT	£500,000
RESPONSIBLE PERSON	IBRAHEEM AL-BAYATI	PROJECT VALUE	£500,000	FINAL COST ASSESSMENT	
PROJECT DESCRIPTION		PRE-CONSTRUCTION DESCISION		REASONS FOR DEVITION FROM THE PLAN	
DEMOLISH CLUB HOUSE AND ERECTION OF 4 SEMI-DETACHED HOUSES WITH LIVING SPACE IN THE ATTIC		GRAP AND LOAD LORRIES AND HIRE OF SKIPS FOR REMOVAL AND DISPOSAL OF GENERAL WATE		TO BE COMPLETED AT THE ENF OF THE PROJECT	

CLIENT PRE-CONSTRUCTION ASSESSMENT											MUST BE COMPLETE FOR MORE DTALIED SWMPS						
	WASTE DESCRIPTION(M3)	RE-USED ON SITE	RE-USED OFF SITE	RECYCLED ON SITE	RECYCLED OFF SITE	EXEMPT SITE	LAND FILL SITE	SPECIAL SITE	TRANSFER NOTE	SITE LICENCE	SPECIAL LICENCE	PERSON REMVING WASTE	WRITTEN WASTE COPY	WASTE PERMIT COPY	CARRIER REG NO	WASTE SITE LOCATION	COSTS £	TOTALS
INERT	STANDARD SPOIL						x											
	Site Clearance			x														
N	GENERAL																	

	Demolition of clubhouse																
	Timber			x													
	Bricks		x														
	Concrete		x														
	Metal		x														
HAZARD	ASBESTOS																
	Cement panels							x									

This document complies with the Site Waste Management Plans Regulations 2008. As such both the "Client" and the "Principal Contractor" are responsible for ensuring all waste from the site shall be dealt with in accordance with the said regulations and also in compliance with the waste duty of care in section 34 of the Environmental Protection Act 1990 (a) and the Environmental Protection (Duty of Care) Regulations 1991(b). All materials will be handled efficiently and waste managed appropriately.

SIGNED ON BEHALF OF THE CLIENT	MARIAM AL-BAYATI	SIGHNED ON BEHALFE OF THE PRICIPLE CONTRACTOR	IBRAHEEM AL-BAYATI

Appendix 2

Programme		START DATE	FINISH DATE	DURATION	Week Com:-02/09/2019						
Ref No.	Task Description	09/02/2019	26/03/2021	82W	M	T	W	T	F	S	S
1	Site moblisation	09/02/2019	13/9/2019	2W							
2	Disconect power	16/9/2019	16/9/2019	1D							
3	Demolish club house	17/9/2019	20/9/2019	4D							
4	Clear site	23/9/2019	27/9/2019	1W							
5	Civils works	30/9/2019	11/01/2019	5W							
6	Prep access road	11/04/2019	11/08/2019	1W							
7	Foundation	11/11/2019	22/11/2019	2W							
8	Brick works to DPC level	25/11/2019	20/12/2019	4W							
9	Beam and block floor	01/06/2020	24/01/2020	3W							
10	Brick work to level 1	27/1/2020	13/3/2020	7W							
11	Timber floor level 1	16/3/2020	04/03/2020	3W							
12	Brick work to level 2	04/06/2020	22/05/2020	7W							
13	Timber floor to level 2	25/05/2020	06/12/2020	3W							
14	Brick work to roof	15/06/2020	17/7/2020	5W							
15	Roof and dorma	20/07/2020	09/04/2020	7W							
16	Install windows and doors	09/07/2019	18/9/2020	2W							
17	Internal fitout	21/9/2020	29/01/2021	17W							
18	External works	02/01/2021	26/03/2021	8W							