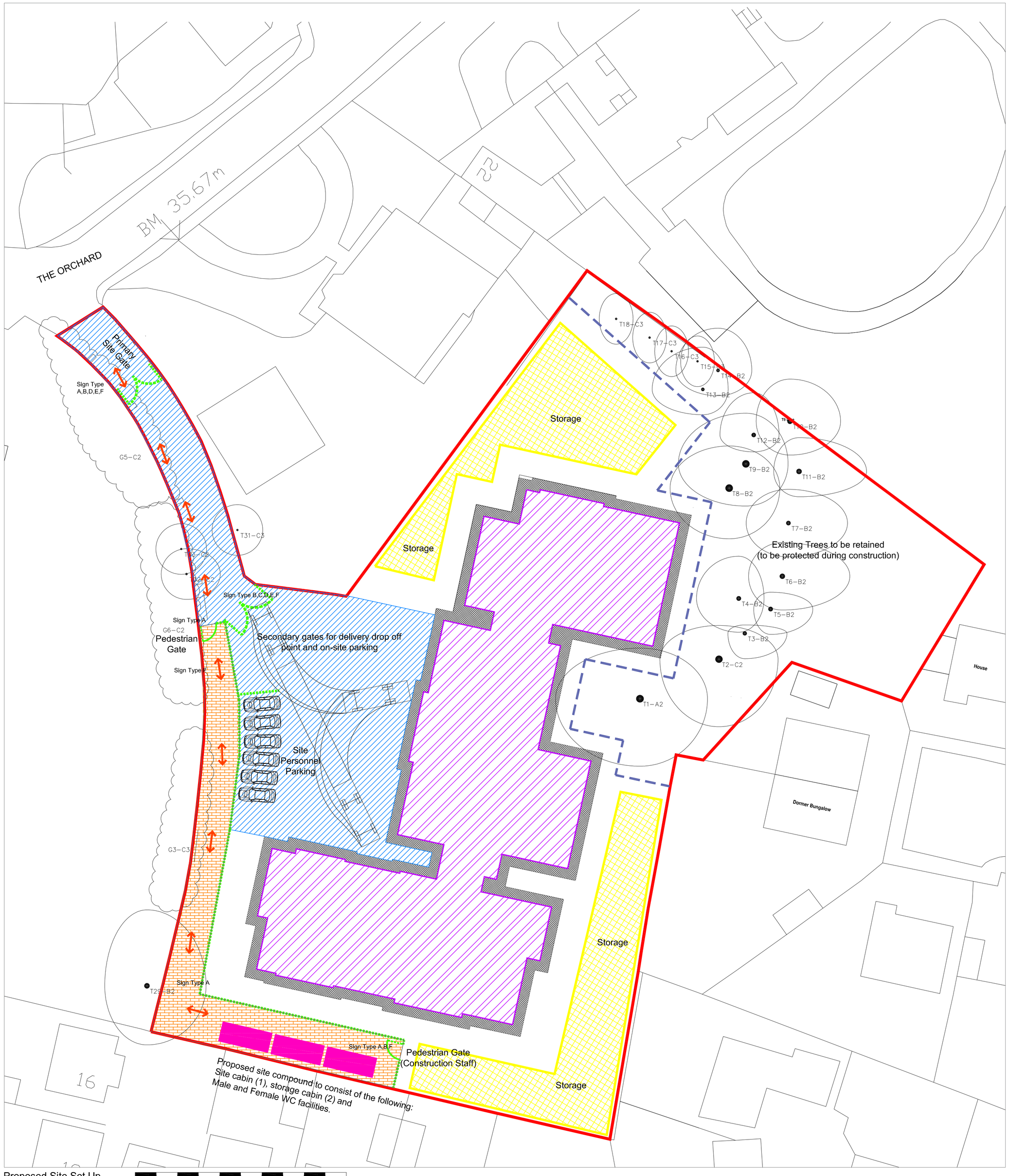


Proposed Site Set Up
Scale 1:250

0 10 20 30 40 50
METRES

This CEMP has been produced for approval of Condition 4 linked to Planing Approval Ref: 20/00187/OUT

Outline Planning Application for the Erection of Three Storey Retirement Apartment Block, Comprising 20no. 1 Bed and 20no. 2 Bed Apartments with Communal Area Together with Vehicular Access, Car Parking and Associated Works (Landscaping Reserved for Future Approval) at Land Adjacent to Greenhill, The Orchard, Huyton L36 5UZ.

Condition 4 - No part of the development hereby permitted shall be commenced until a Construction Management Plan has been submitted to and agreed in writing by the Local Planning Authority that details the means of mitigation of construction effects. This shall include:-
a) Layout of the site compound including identification of areas for the storage of plant and materials, loading/unloading and turning areas for delivery vehicles (for each phase as necessary).
b) Management of deliveries including prevention of waiting/layover of construction related traffic on the highway, measures for the control of traffic to and from the site and consideration of any temporary traffic management arrangements which may be necessary during periods of construction. Note reversing on the highway is not permitted without a Banksman.
c) Construction staff parking arrangements
d) Control of transfer of mud out of the site - details of wheel washing facilities including location and type.
e) Methods for the mitigation of noise and vibration from building works also from the operation of any temporary power generation or pumping plant which will operate overnight.
f) Methods for dust control and suppression.
g) A programme of works including phasing, if applicable.
h) Adequate provision for addressing any abnormal wear and tear to the highway, if applicable.
i) Methods for the mitigation of noise and vibration from building works, including any piling works, and also from the operation of any temporary power generation or pumping plant which will operate overnight.
j) Details of relevant pest control measures during demolition.

Site Layout
The layout of the site is designed to keep vehicles and site personnel apart where possible. The site has one way in and out so this means access to the general public is restricted. However, due to the single narrow access there will be a shared entrance for pedestrians and vehicles. The management of this area will be critical as below;

Entrances and Exits - provide separate entry and exit gateways for pedestrians and vehicles. Vehicles will be accompanied by bandsman to ensure no pedestrians use the shared access when vehicles need to access or egress the site;
Signage - various signs will warn pedestrians and vehicle operatives of the conditions around them;
Walkways - provide firm, level, well-drained pedestrian walkways that take a direct route where possible;
Crossings - where walkways cross roadways, provide a clearly signed and lit crossing point where drivers and pedestrians can see each other clearly;

The site has a large hardstanding area to the front, so there will be some opportunity for contractor's parking on site. This will be around 10 spaces, depending on the period of construction and space available. All other vehicles will have to park within the local area where there is availability.

The site layout will be planned to locate machinery and dust-causing activities away from sensitive receptors, where reasonably practicable. Appropriate methods, such as the erection of hoarding's or other barriers along the site boundary, will be used, where appropriate, to mitigate the spread of dust to any sensitive buildings or other environmental receptors.

Site Activities
Dust pollution from excavations and earthworks activities will be limited through the use of the following measures, as appropriate:
- topsoil will be stripped as close as reasonably practicable to the period of excavation or other earthworks activities to avoid risks associated with run-off or dust generation;
- drop heights from excavators to vehicles involved in the transport of excavated material will be kept to the reasonably practicable minimum;
- materials will be compacted after deposition, with the exception of topsoil and subsoil on land to be restored for agriculture, forestry, landscaping and wildlife habitats; and
- soil spreading, seeding, planting or sealing of completed earthworks will be undertaken as soon as reasonably practicable following completion of the earthworks.
- Use water as dust suppressant where applicable e.g. on moving spoil heaps
- Work towards lean construction & utilise 'just in time' deliveries
- Ensure operatives are using tools correctly and tools in good repair
- suitable temporary enclosures for cutting and grinding activities; and
- No site runoff of water or mud.
- stockpiles and mounds will be kept away from sensitive receptors (including natural and historic features), watercourses and surface drains where reasonably practicable and sited to take into account the predominant wind direction relative to sensitive receptors;
- stockpiles and mounds will be maintained to avoid material slippage;
- materials stockpiles likely to generate dust will be enclosed or securely sheeted, kept watered or stabilised as appropriate;
- Keep stockpiles for the shortest possible time;
- – fine dry material will be stored inside buildings or enclosures with measures in place to ensure no escape of material and of overfilling during delivery;
- mixing of large quantities of concrete or bentonite slurries will be undertaken in enclosed or shielded areas;
- the number of handling operations for materials will be kept to the minimum reasonably practicable;
- materials handling areas will be maintained to constrain dust emissions through the use of measures such as watering facilities to reduce or prevent escape of dust from the site boundaries; mixing of grout or cement-based materials will be undertaken using appropriate;
- techniques/mitigation suitable for the prevention of dust emissions.
- Dust pollution associated with grouting activities will be limited through the use of the following measures, as appropriate:
- dust extractors, filters and collectors on silos for example; and
- the mixing of grout or cement based materials will be undertaken using a process suitable for the prevention, as far as reasonably practicable, of dust emissions.

Construction traffic
The construction and maintenance of site traffic areas, will include the following measures, as appropriate;

- provision of areas of hard-standing at site access and egress points to be used by any waiting vehicles;
- operation of construction plant in accordance with the manufacturer's written recommendations;
- vehicles and plant will be switched off and secured when not in use;
- vehicle and construction plant exhausts to be directed away from the ground and be positioned at a height to facilitate appropriate dispersal of exhaust emissions;
- the enclosure, shielding or provision of filters on plant likely to generate excessive quantities of dust beyond the site boundaries;
- devices such as dust extractors, filters and collectors on drilling rigs and silos will be used;
- movement of construction traffic around the site will be kept to the minimum reasonable for the effective and efficient operation of the site and construction of the project;
- All loads entering and leaving site shall be covered
- vehicles transporting materials within or outside the construction site will not be overloaded;

At all times we expect operatives and visitors under our supervision and management to wear the correct PPE. This includes, goggles, dust masks, gloves etc as required however there will be a supply of each in our office.

Inevitably, and even with all our control measures, some dust is unavoidable and we will have a fully stocked first aid box on site should it be required as well as free flowing hot and cold water at all times.

Wheel Washing Facilities
During the demolition phase a pressure washer will be uses at the end of each day, or when needed twice a day to ensure vehicles do not track dust onto the local highway.

During the construction phase the site compound area will be gravel based made ground on the site as part of the site set up, which will be utilised for vehicular access/ delivery, egress. This will form a good hard standing free from mud etc. but in the event of a sustained period of heavy rain, a pressure power wash will be stored on site to hose down the wheels prior to the exit onto The Orchard, should this be required. The contractor will ensure no large debris will be brushed into any surface road gullies in The Orchard.

We will supplement this with road sweepers as appropriate, most commonly during periods of moving surplus spoil and forming the foundations. Hardstanding at the access and egress points will be cleaned at appropriate intervals.

Deliveries
A member of the construction team will be allocated the role of being in charge of the site access gate. All deliveries will be booked in with this person a minimum of 48hrs before arrival - access information will be provided to the delivery company at this time. Delivery companies will call 30mins ahead to ensure the site is ready to take delivery.

Access through The Orchard is restricted due to the road width so smaller delivery vehicles will need to be used, rather than HGVs. These lorries will be unloaded with a machine provided by the delivery company or site vehicle (forklift or similar) and brought in through the vehicle entrance to the site, to the storage area, which will be cleared ahead of deliveries arriving. Following the steel frame, all other deliveries will be on smaller vehicles that can reverse onto the site for unloading. The gates will open into the site so as not to impact on the public highway. A banksman will be provide to facilitate HGVs unloading, as well as when they need to turn around within the adjacent access road. Banksman will be used at all times for any vehicle movements on site, as well as all vehicles accessing and leaving site.

Deliveries to be made outside peak times but within the accepted site working hours. Deliveries will be scheduled in advance to adhere to this, however if there are any unforeseen circumstances a view will be taken by the Site Manager as to whether they can receive the delivery and not cause any congestion or pedestrian safety issues. If this cannot be achieved the delivery will be rescheduled for another agreed time.

Site Compounds and Welfare Facilities
Welfare facilities will utilise 2 No. external 'cabins', one will form the onsite Managers Office/ Canteen/ W.C and the other will be for storage of equipment There will be a site signing in located in the site office or a desiganted hut at the start of the pedestrian walkway.

Signage
External facing signage indicating development details will be provided. The method, size and position are still to be finalised with the client.
Within the site, information relating to general health, safety and environmental matters, site specific information and statutory notices will be displayed on the site SHEQ notice board. This shall include the following:
- Contract Name
- Emergency Contact Name and number including out of hours
- Site Plan.
- Current Key Risks and Information.
- This Week's Topic.
- Health & Safety Law Poster.
- Designated Fire Marshal (s) and First Aider (s).
- F10.
- Insurances.
- Policy Statements; Site Information (Fire Alarm, Deliveries, Parking, Nearest Rail Station, Emergency (Medical), Environment, Police, HSE.

Any directional signage to the site boundary/footpath will be positioned and agreed with Local Authority for any closures/diversions that may be necessary associated with formation of new road access formation.

Hours of Working
In line with Planning Condition 22 - No construction work, including demolition and deliveries to and from the site except between the hours:

- Outside the Hours of 08:00 to 18:00 Weekdays
- Outside the Hours of 08:30 to 13:30 Saturdays

No work shall take place on Sundays or on Public Holidays

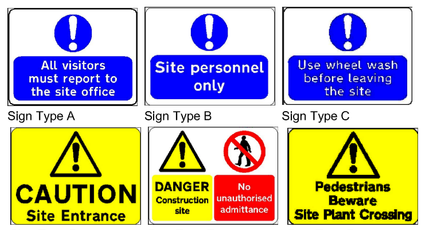
Should the circumstances dictate that the contractor needs to work outside the above hours, they will seek written approval from Knowsley Borough Council prior to doing this.

NOTES

All dimensions to be checked on site. Figured dimensions to be read in preference to scaled. Keith Davidson Partnership accepts no responsibility for any unauthorised amendments to the drawing and does not permit unauthorised copying of the drawing. This drawing is copyright and remains the property of Keith Davidson Partnership unless otherwise agreed.

LEGEND

- Building Footprint To be Demolished/ Retained Basement Used For Material Storage Once Demolished
- Traffic Management / Turning Area (Existing Hardstanding and Crushed Stone)
- Material Storage
- Pedestrian Route
- Scaffolding area
- Welfare Area and Cabins;
 - Male and Female W/C / Mess Room / Drying Room / Site Office
 - Secure Storage / Fire Fighting Equipment / Signing In Point
- Pedestrian Movement
- Application Site Outline
- Site Hoarding / Gates
- Heras Fencing for Tree Protection Area in line with Indigo Report



Construction Method and Programme

It is envisaged that the site establishment period will be 8 weeks commencing in summer 2022.

The construction phase of the scheme will be 15 Months as described below;

Month 1 - Concrete strip footing foundations (piling not required); below ground brickwork; and traditional ground bearing slab. Lift Pits installed for 2no. passenger lifts.

Month 2 - Initial above ground brickwork - external walls to be traditional cavity wall construction. Internal walls to be block walls.

Month 3 - Continuation of masonry up to First Floor.

Month 4 - Installation of First Floor pre-cast concrete floors and Ground Floor stairs.

Month 5 - Continuation of masonry up to Second Floor

Month 6 - Installation of Second Floor pre-cast concrete floors and First Floor stairs.

Month 7 - Completion of masonry to Roof Level and final stair flights installed.

Month 8 - Commencement of first fix M&E, External Windows and Doors Installed and Roofing works.

Month 9 - Continuation of M&E works and screed installed to all floors.

Month 10 - Internal plasterboarding commences.

Month 11 - Commencement of first fix joinery and completion of plasterboarding, with plaster skim commencing.

Month 12 - Continuation of plaster skim and first fix joinery works, on to second fix M&E and joinery.

Month 13 - Completion of M&E, Joinery and onto internal wall and floor finished and decoration.

Month 14 - External works commenced for the Car Park and hard landscaped areas. Continuation of decoration and final internal works.

Month 15 - Completion of snagging. Installation of soft landscaping and completion of all hard landscaped areas. Commissioning and testing of all services.

Version	Amendment	Drawn & Date	Checked & Date	Approved & Date
A	Further updates to parking, notes, and space around building	DB 17.03.22	JL 16.03.22	JL 16.03.22

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Internal Project Number	1301
Client	Alderley Group
Project Name	The Orchard, Huyton
Drawing Title	Construction and Environmental Management Plan (CEMP)

Scale 1:200	Original Size A1	PLANNING	
Date 11/03/2022	Drawn JL	Checked DB	Approved DB
Drawing Number 15			Status / Revision A