

Construction Management Plan

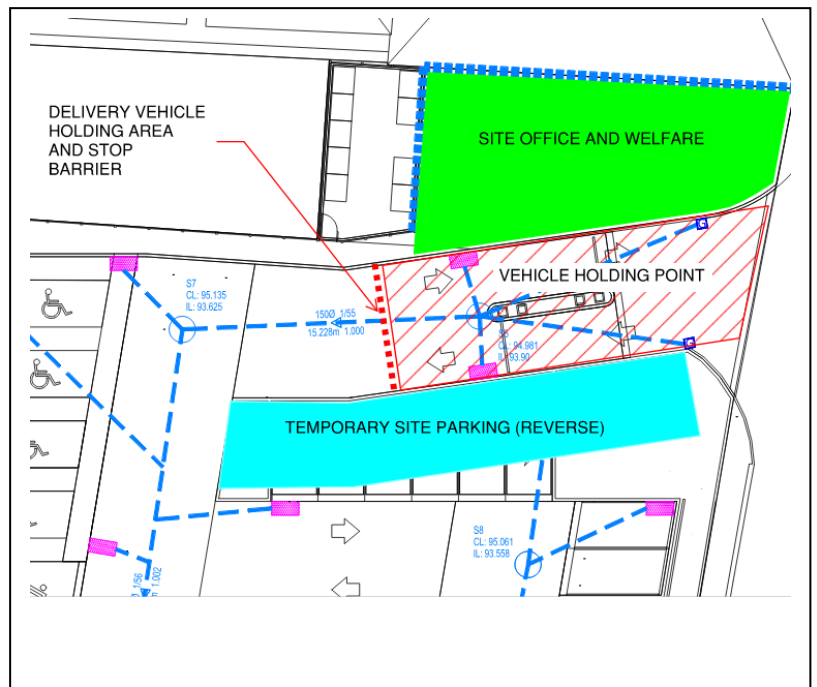
The Auckland Project – Kingsway Public Realm

During the development of the site there will be several different phases of the construction process which can be broken down as follows

1. Site Enabling Works – Welfare establishment, Site clearance, Bulk Excavation
2. Public Square – Attenuation tank install, Soft and hard landscape, Street furniture
3. Main Car Park – Main drainage, S278, Car park construction, Soft landscaping, Street furniture

During all phases we would carry out operations within the working hours of 0730 to 1700 Monday to Friday and 0800 to 1300 on Saturday with no Sunday or Bank Holiday working.

Access for deliveries to site would be via Kingsway, as detailed below. We would avoid deliveries during rush hour and 'school run' times wherever possible. All deliveries will be coordinated and banked into site.



All subcontractors and suppliers will be made aware of this at order stage.

Due to the access restrictions all deliveries will be made via rigid vehicles rather than articulated vehicles

Due to the limited space available there will be limited parking on site with site staff and visitors parking demarcated adjacent to site office area.

Site teams will be encouraged to use public transport and public car parks. Van sharing will be utilised where applicable.

Construction Management Plan

No vehicles to park on Kingsway Road to allow deliveries to utilise this route.

An internal environmental impact assessment will be carried as part of MCS aspects and impacts QEMS for the contract.

Dust/Noise, rubbish and general cleanliness will be monitored continuously to ensure they are minimised and kept to an acceptable level.

Risk assessments and method statements will be produced for dust and noise and will be in the site file.

Noise and Vibration Management

- Code of Practice BS5228 will be used to control Noise and Vibration on open sites
- Screening of site before use
- Use indirect methods of noise control such as acoustic screening around breaking machinery
- Generator, engine etc, compartment doors to be kept closed
- Avoid using particularly noisy plant early in the morning or late afternoon.
- No engines to be running on idle while waiting
- Use of quieter work methods and techniques where possible

If dust is a problem during site activities this must be prevented from reaching other areas by the careful use of spraying and damping down procedures especially during dry periods.

Dust, air quality and dirt suppression

- Dust suppression on all cutting devices
- Use sheet coverings over stored material and aggregate
- Siting of petrol /diesel generators as far from neighbouring premises as possible
- No burning of wood or waste on site
- Avoid dry sweeping of large areas, to avoid kicking up dust
- Impose a speed limit of 15mph on surfaced roads
- Imposed a speed limit of 10mph on unsurfaced roads to minimise kicking up dust
- Regular inspections around the site to check if there are unreasonable and excessive build ups of dust from specific tacks, implementing control measures as necessary
- Fine materials will be stored in enclosed
- containers and suitably controlled to prevent escape

Construction Management Plan

All waste will be removed to skips provided by competent waste management company who will supply waste transfer notes to site and copy of waste carriers licence.

Reports on waste management and recycling are received at head office each Month and are reviewed and reported upon determining MCS Carbon footprint for each site to comply with our ISO 14001 2015 accreditation and QEMS system.

Site waste Management plan will be updated at regular intervals showing all recycling and waste figures for the contract, at the end of the contract this will then be reviewed against actual reports determining the success of the environmental controls for the duration of the contract

1. Site Enabling Works

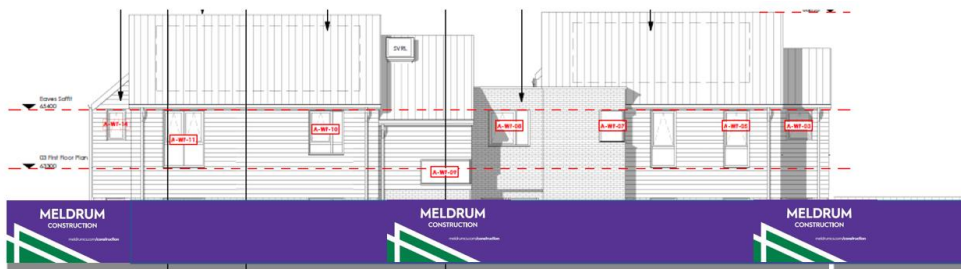
During this phase the main activities on site will be

- Installation of site set up, carparking and suitable on site access.
- Clearance of existing waste and debris
- Removal of existing concrete boulders
- Bulk cut and fill model

We propose to set up the site as shown in figure 1 below

Figure 1

2.4m Plywood hoarding would be installed to site perimeter facing onto Kingsway Road and Newgate Road. Lockable vehicle and pedestrian gates to NE corner of Kingsway Road. Example below -



Viewing windows will be installed at strategic points along the Newgate Street hoarding to enable visualisation of phased operations during the build programme.

Vehicle access for offloading would be via gates situated off Kingsway and noted above. Pedestrian access would be located alongside the vehicle access gate direct to site office location.

Construction Management Plan

Wheel washing facilities will be provided adjacent to the vehicle access gates however we would limit the number of vehicles entering the site and would carry out loading alongside the gates.

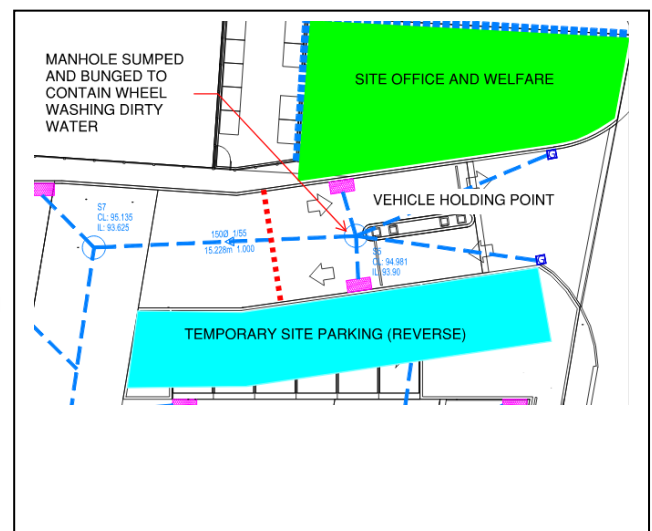
While loading is carried out water would be used to suppress dust in especially dry conditions

Periodic road sweeping would be carried out to minimise the effects on the surrounding roads as necessary

Site Plant would be unloaded via Kingsway and parked within the footprint of the site during non-working hours. All Plant will be securely locked and parked in the site compound when not in use, plant will have keys removed when not in use

Materials for this phase would be off loaded by Hiab or forklift and stored within the site perimeter

Wheel wash facilities will consist of a jet wash (as detailed below) set up alongside the vehicle access gates which would be operated by a dedicated site operative draining to a suitable soakaway/ drain on site.



Proposed manhole S5 will be utilised bunged and sumped to contain dirty water run off and potential silting. Gullies to the site entrance will also act as water and silt catchment to prevent any run – off to Kingsway.

Directional signage will be installed throughout the site and site card briefing carried out with all delivery drivers at site entrance hold point. Hoarding, welfare, parking, holding points and routes will be visible at all times.

Continuous monitoring and TM Plan updates will enable fluid delivery movement and prevent site operative/ vehicular interface.

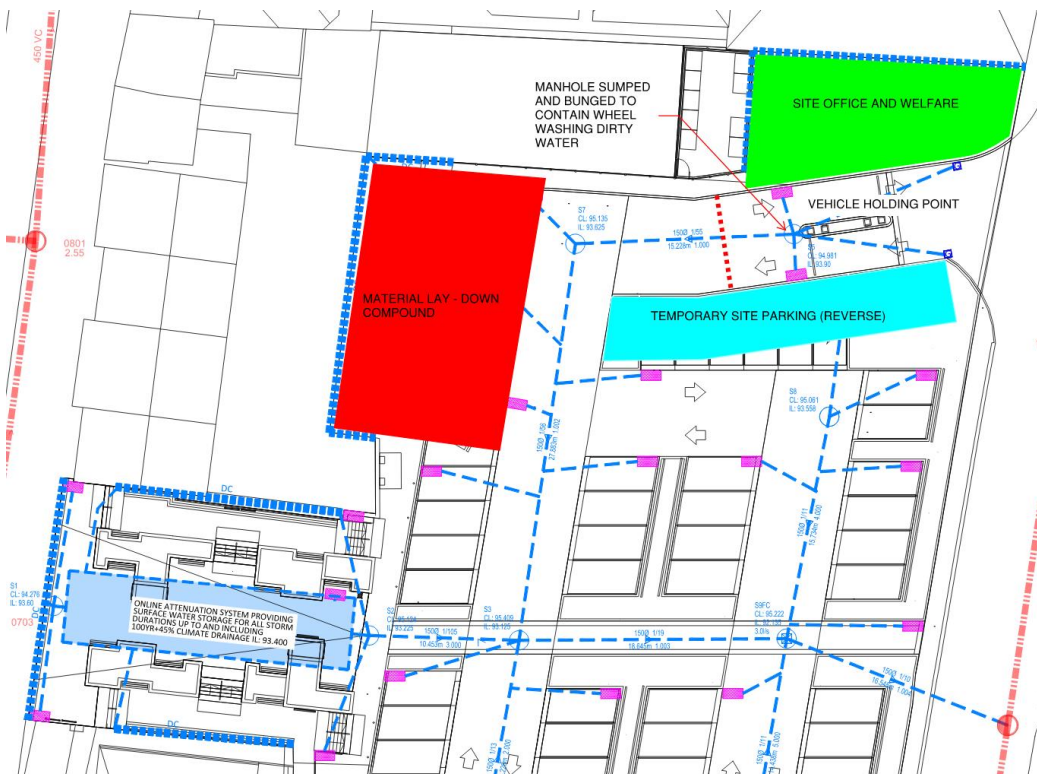
Construction Management Plan

2. Public Square – Attenuation tank install, Soft and hard landscape, Street furniture

During this phase the main activities are

- Excavation and Installation of Attenuation Tank
- Installation of substructure blockwork ducts, drainage and hard landscaping
- Street Furniture

Site set up during this phase would be as shown below -



Excavated materials from attenuation excavation would be removed from site via wagons following access/egress routes amended during phased operation system via Kingsway Road. Vehicles to be directed on and off site by banksman.

Concrete for foundations would access site following site access/ egress system, again controlled by banksman.

Wheel wash facilities would be utilised throughout the installation of the foundations as vehicles would be required to access site to deposit / remove materials. Road sweeping will be carried out as necessary and monitored on a daily basis. For Public Square construction, the western boundary will have continuous monitoring and control to prevent unauthorised access from members of the public off Newgate Street.

Construction Management Plan

Offloading and storage of all materials will be stored in the designated materials compound and delivered in line with programme commitments. This would take place directly alongside the site entrance with vehicle coordination via banksman.

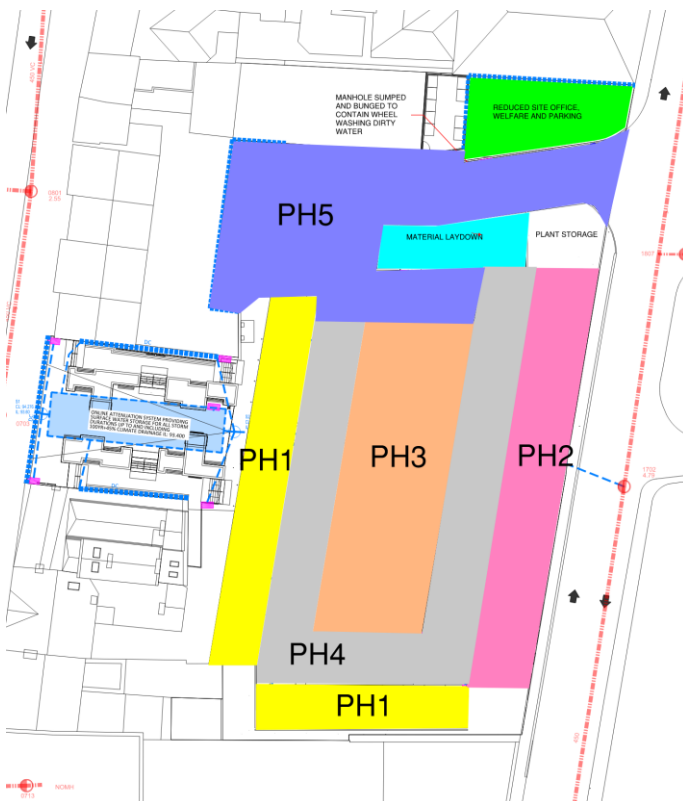
All site off load operations will be coordinated with Site PM and Banksman to ensure clear and concise instructions are relayed to all plant, labour and material movement throughout the build phase.

3. Main Car Park – Main drainage, S278, Car park construction, Soft landscaping, Street furniture

During this phase the main activities are the installation of the main structure comprising

- Site Drainage
- S278 Works
- Car park construction
- Soft landscaping
- Street Furniture

Site set up during this phase would be as shown below –



Construction Management Plan

Materials for the permeable hard landscaping would be distributed via telehandler onto loading area for distribution around the working area.

Material deliveries would come on a 'Just in time' basis and would be off-loaded via Hiab or forklift as there is minimal storage on site

External Works and Off-Site Sewer Connections

The S278 phase takes us through to the completion of the scheme and incorporates all the finishing elements -

- Drain Survey
- Permeable paving
- S278 Construction and Macadam Installation

As well as the completion of external drainage, hard and soft landscaping and off-site sewer connections

During this phase there would be limited vehicle access and welfare arrangements.



Materials to be delivered on a 'Just in time' basis and off loaded by Hiab or forklift and stored within the S278 area.

A footpath closure or temporary traffic lights would be required for the installation of the S278 works along Kingsway Road subject to DCC liaison and approval.

Construction Management Plan

Works outside the site boundary would be fully fenced off with Heras fencing to prevent unauthorised access.

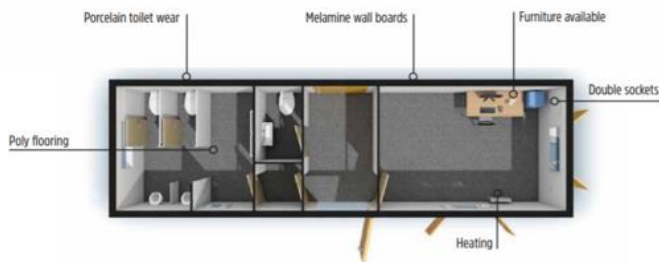
Communication Plan for Liaising with the Public

Prior to commencement on site we would carry out a letter drop to the adjacent residents providing them with information of the contract. We would also confirm our working hours (in accordance with planning conditions) and provide a contact number for our head office for any queries.

Throughout the duration of the contract further updates would be provided via letter drop of upcoming significant works which could impact upon the residents, for example works to off - site sewer connection.

Proposed Project Compound Set Up

We plan to set up our site compound to the right side of the site entrance. This will allow for immediate interface with visitors and persons associated with the site construction. Our set up would consist of two double stacked 32 x 10 feet units as shown below along with a steel store within a locked Heras fence compound area. Upon completion of the works the area would be constructed all as per design details



32' x 10' Office / Toilet Unit



32' x 10' Mess Unit

