

## CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

(Including Traffic Management and Dust & Noise Management).

Thornton Building (previously known as TOSP) Genome Campus Hinxton CB10 1SA



5th August 2022 - Rev A

Originator: Jon Carter Senior Project Manager This CEMP has been prepared in accordance with and to address the requirements of Condition 14 of the TOSP Decision Notice (ref 21/05384/REM). This is considered to set out the primary CEMP criteria against which this document has been prepared, however to ensure accordance with Outline Planning Permission regard has been given to Condition 51. Compliance with the Outline CEMP (and its supplement), the Outline CTMP, and Outline Construction Waste Management (CWM) Plans for the Wellcome Genome Campus, approved by the local planning authority (LPA) on 22 July 2022, is assumed for all construction works, and this detailed CEMP only seeks to supplement with additional information as required, relative to this RMA and where required by Condition 14 of the TOSP Decision.

It is noted that no piling is proposed as part of the proposals, so no Piling Method Statement is submitted.

## Introduction

The new Thornton building at the Genome campus, Hinxton consists of a cast insitu lower ground floor concrete frame with a CLT and glulam beam structure on the floors above. the new building comprising office space for translation with associated meeting rooms, canteen, toilets, full shower facilities with changing rooms and integral plantroom in the lower ground floor. Externally a large access ramp to upper ground floor will be formed along with separate secure cycle shelter and hard/soft landscape areas.

Access to the site has been preplanned and will be coordinated to limit the impact on neighbours and local stakeholders. See Appendix C

Regular reviews of the works and management of the logistics will be a key part of ensuring that Kier Construction will adapt to the changing needs of those who may be impacted by this project.

The project will be fully planned using the latest 3d modelling software in order to plan all works during the construction phase.

Kier Construction will work responsibly and professionally in a manner that meets the Kier Construction Standards and the requirements of the Client.



## Programme

Please see Appendix E.

## Vehicle Sizes / Numbers / Parking Arrangements (also refer to Traffic Management Plan within appendix C).

To minimize disruption to the local neighbours, where practical we will stipulate in orders to our suppliers and subcontractors that deliveries should avoid peak drop off and collection times; 0830 - 0915 and 16.30-17.15

Lorry drivers with large loads/articulated trailers will be asked to telephone the Kier Construction Site Materials and Deliveries Manager in advance, who will then give permission to approach site. Access into the site compound will be off the A1301 via the site access gates south of the genome campus roundabout.

Access will only be permitted from the North bound carriageway with all south bound vehicles being directed around the A11 roundabout to avoid right hand turning across the flow of traffic.

Larger vehicles will be guided on site with a vehicle banksman. Permission to gain access onto the site by large vehicles will only be given if the compound area is clear for the vehicle to be accommodated on site. Any vehicles without appointment will be turned away.

Kier will have a manned security guard with gatehouse positioned at the new site entrance in the Genome Campus perimeter which will be manned 0700-1800. There will be an additional key for the main gate, which will be held by the campus security for emergency access.

All site traffic will enter through the new site entrance with signage erected to indicate this and additional signage will be erected at the Genome entrance to warn site traffic of no entry.

Contractor parking will be within the Construction area and designated contractor parking only. No Contractor's vehicles will be permitted to park in any of the local car parks or on local roads. Car/van sharing will be promoted to limit the number of vehicles accessing the site.

All off-loading will be within the boundaries of site and will be carried out by telehandler or truck mounted mobile crane. All plant operators will be competent CPCS trained personnel, and all lifting operations will have detailed lift plans, compiled by a CPCS Appointed Person, in place prior to the operation taking place. CPCS Lift Supervisors and Slinger Signallers will manage the lifting on site.

Any deliveries arriving to site early will be held in the identified off site holding area. (refer to the Traffic management Plan within appendix C)

A conditions survey of the adjacent public highway will be carried out during Kiers enabling works period at the front end of the project.

Normal Hours of Operation

Construction Operation Hours:-

Monday - Friday	0800 – 1800 hours
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Saturday-

## Dust Mitigation Measures during the Contract Period (refer to dust and noise management plan within appendix

0800 – 1300 hours – as required and compliant with planning requirements.

Through design and selection of methodology consideration will be given to mitigate the generation of dust. E.g. Selection of materials, limiting the cutting of materials without extraction (wherever suitable) and prohibiting dry cutting of cementitious materials. Should dust become an issue during the groundworks phase, damping down will be used if required.

Should dust become an issue, Kier Construction would propose to utilise hoses and mist sprayers as required for maximum dousing down areas.

Due to limited traffic movement on site, Kier Construction do not envisage any dust issues that require additional control measures.

## Control of Noise emanating from the site during the Construction Period

The Kier Construction site team have a broad framework for liaison with residents and those likely to be affected by the execution of the works, being aware of the impact of construction activities and from experience have found that this can be minimised by encouraging open dialogue from the commencement of the works. These basic principles will be utilised taking things forward to working on this project and observing the sensitivities to the client/public and the environment.

Kier Construction strives on all our sites to be a good neighbour by: -

- Being considerate think of all the interfaces, passers-by and the public in general.
- Being quiet minimise noise where possible, use every effort to use quietest equipment available.
- Being clean and tidy all pavements, roads, paths etc. will be kept clean and tidy.
- Being safe and carry out works with the utmost care.
- Being responsible control site activities and people to this code.
- Being accountable provide a contact board, so the public can communicate concerns.

On this project Kier Construction will carry out letter drops to inform of the start on site, and a public information noticeboard will be erected at the site entrance and newsletters will be posted quarterly.

We will arrange a meeting with the site buildings adjacent to the new build to talk through the construction activities as we understand the vibration sensitivities of the scientific instruments within these buildings.

The site will be registered with the national Considerate Constructor Scheme and will comply with their Codes of Practice.

Kier will also have a dedicated project webpage with a contact section via email.

Kier Construction will take all reasonable precautions to keep noise, pollution and nuisance to a minimum.

Specific systems to maintain neighbour interface will include: -

- Single point contact with Kier Construction Project Manager.
- Safety Advisor available for consultations.
- Adequate signage and protection to be erected and maintained.

## **Noise and Vibration Management**

The adjoining Ogilvie building (Bob) contains instruments sensitive to vibration. Kier will investigate alternative construction methods to minimize vibration within 50m of the building and install vibration monitoring equipment adjacent to the instruments for early warning.

Wherever possible Kier Construction will endeavor to mitigate noise and vibration through design and selection of materials and methodology.

Radios/audio equipment are not permitted on the site, Kier Construction will ensure that this is communicated to all sub-contractors and is monitored throughout the works on site.

The actual level of noise generated by construction is very difficult to predict at any given time due to the nature of the work and the number of variables that need to be considered. However, there are various ways of reducing the amount of noise that the construction works contribute to the ambient noise, including: -

Training for staff and operatives.

- Raised awareness with signage and Induction/Toolbox Talks.
- Avoidance of unnecessary noise.
- Strategic placement/orientation of plant.
- Strategic placement of access roads, unloading areas and material storage.
- Proper use of and well-maintained plant.
- Working method/sequence.
- Co-ordination of site activities.
- ✤ Off-site fabrication/cutting.
- Best available techniques not entailing excessive cost.
- ✤ Acoustic screening/enclosures.
- Restrict hours of noisy work to provide respite periods during the day.
- Regular monitoring and review.

These measures, implemented by a management team who demonstrate their commitment by example, will contribute to minimum noise levels during the construction works.

Please find attached our Noise Risk Register within Appendix A for this contract detailing activities, sources, type of noise and action plan.

## **Security arrangements**

A monitored cctv system will be utilised to cover out of hours periods which will have a security guard call out service 24/7 if any issues are identified on the camera system.

The perimeter of the working area will have heras fencing erected in accordance with the instructions supplied by manufacturers, suppliers and designers. The layout and arrangement of this is shown on the drawings in the Appendices.

Corporate signage and site-specific information boards/hazard signage will be displayed. As the fence can be viewed through this will also provide clear visibility for the local community.

Fencing measures shall be implemented to prevent unauthorized persons (including children) from accessing beneath fencing and gates. We shall ensure that there is no risk to the general public from collapse, sharp edges, splinters, protruding wire or other defects.

Perimeter fencing shall be inspected daily with a recorded inspection at least weekly. A formal close down process will be in place to ensure that the site is correctly secured at the end of each shift.

## Soil Management and Material Storage Arrangements

All materials will be stored within the site boundary in designated storage areas (refer to Appendix C.

All material arising from excavations on site are to be retained within the genome campus where it will then be landscape at a future date instead of moving off site.

The extent of excavation during the reduced level dig of the site will be limited to the access

roads, new building footprint and associated hard landscaping including retaining wall/ramp constructions.

All site operatives, visitors and construction vehicles loading, off-loading, parking and turning will take place within the site area during the construction period to mitigate disruption to all stake holders.

All the above are shown on our site layout drawing in Appendix  $\ensuremath{`C'}$  attached with this statement.

## Arrangement during the construction period to minimise the deposit of mud and other similar debris on the adjacent public Highway.

It will be a condition on all orders, that delivery drivers will be responsible for the cleanliness of their vehicles prior to leaving site. Site staff will strictly enforce this rule.

Through design and programming of the works Kier Construction will strive to minimise works that could generate mud on the roads e.g., the excavation of the temporary access road will be undertaken as an enabling works package with the road being stoned up to levels as the excavation progresses, so plant/lorries work off of clean hardcore and not subsoil. The team will also aim to get the permanent works access road in with an additional base course in early to provide a clean, controlled section of road prior to vehicles exiting the site on to the highway.

Wheel jet washing facilities will be provided at the site vehicle inner gate Inside the construction main compound and car park) as required – a water stand pipe and power are both available at the site cabins for this purpose.

In the unlikely event that roads in the immediate vicinity become dirty due to the site works, Kier Construction will place a call off order with a local road sweeper company to attend site if required. An operative with a sweeping brush will also be available during the entire duration of the works for any accidental deposits on the road outside site and to help control our new access road and gate.

## **Routing Agreement for Construction Traffic**

Pedestrian and vehicle routing around site are as shown on attached site plans contained in Appendix C. Segregation of pedestrian and vehicles is of paramount importance to avoid potential incidents.

## Site Waste Management Plan

The Kier Construction Environmental Management Plan is contained in Appendix B to this document.

The Environmental Management Plan and Site Waste Management Plan are live documents held on site and are populated and updated as the project progresses. Kier Construction operate the Smart waste online system to keep a live, on-going record of waste generated on site.

## Traffic Management Plan incorporating the routing of Construction Traffic and details of heavy vehicle movement patens

Delivery Vehicular access to site will be utilizing the new entrance for the genome campus south of the genome main entrance roundabout as the Traffic Management Plan. Large articulated vehicles will be turned on site and will also exit monitored by the site gateman. There will be no reversing onto the Highway as turning facilities are available on site.

Refer to full Traffic Management Plan within appendix C.



## Thornton Building

## APPENDIX A

## NOISE RISK REGISTER FOR THE WORKS

## Kier Construction – Thornton building



NOISE RISK REGISTER - Rev '0' 4<sup>th</sup> July 2022

Item No.	Activity	Main Noise Source	Noise Level (L/M/H)	Noise Duration Int./Cont	Noise Type	Comments	Action
1	Reduced level dig / hardcore	Excavator/roller	М	Continuous	Engine		Use well maintained plant.
2	Excavate and concrete foundations/lift pits						
a)	Excavation	Excavator	M	Continuous	Engine		Use well maintained plant.
b)	Discharging concrete	Concrete lorry	Н	Intermittent	Consistent		<ul> <li>Stagger foundation pours where practical.</li> </ul>
c)	Compacting concrete	Vibrator	M	Intermittent	Consistent		Use well maintained plant.
3	PCC stairs	Crane	М	Continuous	Engine		<ul><li>Use well maintained plant.</li><li>Strategic placement of plant.</li></ul>
4	Underslab drainage and service ducts	Excavator	М	Continuous	Engine		Use well maintained plant.
5	Substructure masonry	Mixer	L	Continuous	Engine		Use premixed mortar.
6.	Concrete works						
a)	Preparation of sub- base	Excavator/roller	М	Continuous	Engine		Use well maintained plant.
b)	Discharging concrete	Concrete lorry	Н	Intermittent	Consistent		Use well maintained plant.
c)	Pumping concrete	Lorry mounted pump	Н	Intermittent	Percussive/ engine		<ul><li>Use well maintained plant.</li><li>Strategic placement of plant.</li></ul>
d)	Compacting concrete	Vibrator	Н	Intermittent	Consistent		<ul> <li>Use well maintained plant.</li> </ul>
e)	Surfacing finishing	Float	М	Continuous	Consistent		<ul> <li>Use well maintained plant.</li> </ul>
7	Screed	Pump	М	Intermittent	Percussive/ engine		<ul><li>Use well maintained plant.</li><li>Strategic placement of plant.</li></ul>
8	External masonry walls	Mixer	L	Continuous	Engine		Use premixed mortar.
9	Internal masonry walls	Mixer	L	Continuous	Engine		Use premixed mortar.

Item No.	Activity	Main Noise Source	Noise Level (L/M/H)	Noise Duration Int./Cont	Noise Type	Comments	Action
a)	Loading out	Crane	M	Continuous	Engine		<ul><li>Use well maintained plant.</li><li>Strategic placement of plant.</li></ul>
b)	Fixing	Hand tools	Н	Continuous		High level activity, screening ineffective	
10	Roofing	Hand tools	М	Continuous	Percussive	High level activity, screening ineffective	
11	External metal cladding						
13.	Patent glazing/curtain walling	Hand tools	М	Intermittent	Percussive		Sub-Contractor to reduce.
14.	Brise Soleil/louvres	Hand tools	М	Intermittent	Percussive		Sub-Contractor to reduce.
15.	Internal finishes	Various	L	Intermittent	Background		
	General						
16.	Material unloading	Delivery vehicle	М	Intermittent	Engine		Strategic placement of unloading/ storage areas.
17.	Material distribution	Crane	L	Intermittent	Motor		Strategic placement of access
		Forklift	М	Intermittent	Engine		<ul><li>roads.</li><li>Strategic placement of loading out towers.</li><li>Acoustic screening/hoarding.</li></ul>
18.	Cutting	Hand tools	М	Intermittent	Percussive		<ul> <li>Raised awareness by Site Induction.</li> <li>Cut off site where practical.</li> <li>Designated cutting areas strategically placed.</li> </ul>
19.	Fixing	Hand tools	M	Intermittent	Percussive		<ul> <li>Raised awareness by Site Induction.</li> <li>Pre assembly off site where practical.</li> </ul>

Item No.	Activity	Main Noise Source	Noise Level (L/M/H)	Noise Duration Int./Cont	Noise Type	Comments	Action
20.	Plant	Various	M	Intermittent Background	Engine		<ul> <li>Use well maintained plant.</li> <li>Use plant for its intended purpose.</li> <li>Use baffles etc. recommended by the manufacturer.</li> <li>Avoid the use of plant which is near the end of its useful life.</li> <li>Strategic placement of plant.</li> <li>Acoustic screening if possible.</li> <li>Turn off when not in use.</li> </ul>



## Thornton Building

## APPENDIX B

## SITE WASTE MANAGEMENT PLAN (PRELIMINARY)

## AND

KIER CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

# Environmental Management Plan (EMP)

Project Name:	Thornton building	Contract No:	
Completed by:	Jon Carter	Date:	04/7/22

Revision Number:	Description of changes made:	Updated by:	Date of Update:

This document forms Appendix B.10 of the Construction Phase Plan.

## 1. Introduction

This EMP has been prepared in accordance with the Kier SHEMS Environmental Management Standards and Guidance. It identifies specific environmental issues associated with PHS, and stipulates the procedures that will be used to manage them. Relevant environmental information will be communicated as required.

All amendments to this EMP must be made by project management in consultation with the Safety, Health and Environmental Manager or Environmental Manager / Adviser and documented.

## 2. Environmental Aspects & Impacts

Prior to commencement of the project an environmental aspect and impact assessment must be undertaken in accordance with the Risk and Impact Management Standard <u>SHEMS-STD-GR-014</u>. For guidance on completing the assessment please contact your Safety, Health and Environmental Manager or Environmental Manager / Adviser.

The assessment looks at each site activity against the following environmental aspects:

- Emissions to Air;
- Emission to Land;
- Emissions to Water;
- Waste Generation;
- Nuisance & Environmental Health;

- Ecology & Biodiversity;
- Cultural Heritage;
- Use of Raw Materials;
- Use of Natural Resources.

Details of the control measures identified in the assessment will be communicated to relevant subcontractors. Subcontractors must manage all risks / impacts associated with their work activity / package in accordance with this document.

Where the subcontractor identifies additional environmental risk / impacts the Project Environmental Co- ordinator (PEC) and Project Manager must be informed and the aspect and impact assessment reviewed and amended as required.

In the event subcontractors undertake works that require reference to document(s) listed in section 2.3 of the Construction Phase Plan (Part A), these will be provided / incorporated into their contract as part of the subcontract documentation.

Kier may, from time to time, externally communicate information relating to significant environmental aspects and the company's performance. Such decisions will be made by appropriate management and documented.

## 3. Specific Project Environmental Requirements

This section incorporates information derived from documents scheduled in 2.3 of the Construction Phase Plan.

## Unexploded ordnance (if info. provided elsewhere, reference where)

N/A – site area restricted to footprint of existing building. Desk top study deemed the area to be low risk.

## External (client / enforcing authority) requirements

- Anticipated Planning condition for site hours to be 08:00 till 18:00 Mon-Fri.
- KPI monitoring requirements power usage, water consumption, waste all to be monitored via the SmartWaste system.
- No specified requirement for materials with recycled content and low embodied energy.
- Project will be registered for Considerate Constructors scheme.

## Watercourses & wells

- There are no water courses on site or in the direct vicinity of the project but it is noted the river Cam is to the west of the site the other side of the circulation road plot boundaries.
- Protection required Surface water drainage gullies and swales to be protected from site run-off / pollution at all times.

## Waste Management (significant waste streams that will be generated) - refer to the project Site Waste Management Plan / Resource Management Plan

- Re-use of demolition materials where possible to make up levels if specification compliant.
- Waste segregation will take place off site at a recycling center.
- Use of prefabricated materials whenever possible/suitable.
- Prohibition of the burning of waste on site during construction.
- No concrete crushing will take place on site.

## Contaminated ground, issues with groundwater & dewatering

All soils tested have been classified as Inert

## Standing heritage & archaeology

No issues identified.

## Materials & design

- Materials with recycled content and low embodied energy.
- SHEMS-POL-GR-004 Responsible Procurement Policy use of local suppliers and labour where possible.
- Timber Minimum Standard e.g. use of <u>FSC / PEFC / GiB</u> timber.
- Local supply chain to be utilised where possible reducing nuisance, carbon emissions and providing socio-economic benefits to the immediate and surrounding area.

### Sensitive neighbours (if info provided elsewhere, reference where)

- The site is not located within an enclosed residential area so sensitive issues with local neighbours are not envisaged as being an issue. Site will operate within agreed working hours and liaise closely with other users on the Campus.
- Vibration sensitivity is of paramount importance to the adjacent buildings and vibration monitors will need to be set up to continually monitor during the construction process

## **Ecology & biodiversity**

- The site is prepared for future development having minimal topsoil and vegetation, consequently the biodiversity and ecology risk of the site itself is reduced but particular attention will be paid to managing water run off due to the close proximity of the River Cam which is to the west of the Genome Campus site boundary.
- Tree Protection Orders (TPOs) no TPO's on the project.
- Invasive species not applicable.

### 4. General Project Environmental Requirements

### 4.1 Waste Management

All waste will be managed in accordance with the Waste Management Standard <u>SHEMS-STD-GR-065</u> and where relevant, the Earthworks and Contaminated Land Procedure <u>SHEMS-STD-GR-061</u>.

PHS project team will manage waste through the implementation of a bespoke version of the Building Research Establishment (BRE) SMARTWaste tool. The project team will also use SMARTWaste Site Waste Management Plan to identify waste streams, forecast waste volumes and identify suitable methods to eliminate, or where this is not practicable, reduce waste generated by the project.

When considering management options for identified waste streams, Kier and supply chain members will adhere to the principles outlined in the waste hierarchy below.



Kier and its sub-contractors must ensure waste is stored away from drains, boreholes, wells and controlled waters. Containers shall be in good condition and, where required, covered to prevent dust and litter being blown out. If there is any likelihood of stored waste contaminating the area surrounding the site, all necessary steps must be taken to ensure no contamination occurs. This may include the use of containment bunds with rain shelters and the use of sealed containers, i.e. clip-top drums and fluorescent tube coffins.

Before waste is treated and / or removed from PHS, all subcontractors / waste contractors must provide the project team with legible copies of the following documentation:

- Environmental permits (mobile plant licences) and exemption certificates authorising on-site crushing and screening activities;
- Waste Carriers Registration Certificates;
- Environmental Permits, (Waste Management Licences and PPC Permits);
- Notification certificate of exemption from environmental permitting.

The project team and, where applicable, subcontractors will ensure that the removal of all inert / non-hazardous waste is recorded on Waste Transfer Notes (WTNs). These documents must be kept for a minimum of two years. These documents will be stored on site and made available on request, with copies uploaded to the SMARTWaste tool.

The project team and, where applicable, subcontractors will ensure the removal of all hazardous waste is recorded on Hazardous Waste Consignment Notes (HWCNs). These documents must be kept for a minimum of three years. These documents will be stored on site and made available on request, with copies uploaded to the SMARTWaste tool.

Legible copies of all WTNs and HWCNs, recording the removal of waste from PHS must be issued to Kier. This includes waste generated on site by subcontractors.

When removing hazardous waste from PHS, a premises code must be used on all Hazardous Waste Consignment Notes.

In Wales this is the 6 digit alpha numeric code assigned to the project when registering the site as a producer of hazardous waste with Natural Resources Wales. The relevant code for PHS is TBC

In England the premises code is generated in accordance with section 4.4.2 of the Waste Management Standard <u>SHEMS-STD-GR-065</u>.

### 4.2 Storage of Fuel, Oils & Building Chemicals

Fuel, oil and chemicals will be managed in accordance with the Pollution Prevention Standard <u>SHEMS-STD- GR-064</u> and COSHH Standard <u>SHEMS- STD-GR-051</u>. Please also refer to the <u>Oil and Fuel Storage</u> (SHEMS- MST-CIS-0045) and <u>Chemical and Paint Storage</u> (SHEMS-MST-CIS-0042) Minimum Standards.

Containers must be stored within a Spill Nappy (or similar), bund or any other suitable secondary containment system (SCS). All containers must be located in a safe place to minimise the risk of damage and locked-off when not in use.

For oil tanks, intermediate bulk containers and mobile bowsers the SCS will be able to hold:

- Where one container is being stored a minimum of 110% of the total volume;
- Where more than one container is being stored a minimum of 110% of the largest container's storage volume, or at least 25% of their total volume (whichever is greater);
- For drum storage, the interceptor tray will be able to hold at least 25% of the total storage capacity of the drums.

Bunded areas must be made impermeable to water and oil and protected from the ingress of rainwater. The base and walls must not be penetrated by any valve, pipe or opening that is used for draining the system.

## 4.3 Particulate Matter (Dust) & Noise

Dust and noise will be managed in accordance with the Nuisance Management Standard <u>SHEMS-STD-GR-063</u> and Pollution Prevention Standard <u>SHEMS-STD-GR-064</u>.

## 4.3.1 Mobile Crushing & Screening Process Not applicable

## 4.3.2 General Site Activities

With regard to nuisance, the methodology in which work activities are undertaken will apply Best Practicable Means (BPM) in order to minimise negative impact on local, sensitive receptors, such as schools and domestic dwellings. However, if measures to reduce excessive dust and noise are unsuccessful, work will stop and an alternative method devised before work can resume.

The following measures will be considered when attempting to reduce noise and dust:

- Use sheeted lorries and sealed / covered skips;
- Use dust extraction equipment when drilling and cutting;
- Damp down haulage roads and stockpiled materials in dry or windy weather;
- Sweep access roads regularly;
- Grass over topsoil which is being stockpiled for landscaping or off-site re-use;
- Locate plant and equipment away from sensitive receptors;
- Use screens, including earth bunds to act as acoustic barriers;
- Isolate plant and equipment when not in use;
- Keep engine compartment doors closed.
- Limit vehicle movements on-site, e.g. use of one-way system.

## 4.4 Previously Unidentified Issues

If one or more of the following is discovered, work in that location must stop immediately and the Project Environmental Co-ordinator (PEC) informed:

- Contaminated soils;
- Archaeological remains or features;
- Suspicious objects;
- Underground storage tanks;
- Invasive species, e.g. Japanese Knotweed;
- Protected species, e.g. badgers, bats, amphibians, reptiles and plant life.

## 4.5 Subcontractor and Supplier Environmental Reporting

Subcontractors and suppliers will adhere fully to the Responsible Procurement Policy <u>SHEMS-POL-GR-004</u>. Where applicable, they will also provide the following information / documentation on a weekly basis to the Kier project team:

- A record of the number of litres of fuel delivered to site, e.g. red diesel (gas oil), white diesel and petrol;
- Legible copies of all waste transfer notes (WTNs) and hazardous/special waste consignment notes (H/SWCNs);
- Legible copies of all chain of custody certificates belonging to suppliers delivering new timber to site;
- Legible copies of all timber delivery notes.

### 4.6 Emergency & Incident Preparedness

In order to minimise the risk of a pollution incident, subcontractors will ensure all operatives understand the environmental risks associated with their work activity and what control measures are in place to eliminate or reduce negative environmental impact.

Major Environmental Incidents shall be reported and managed in accordance with MIRP Standard <u>SHEM-GR-STD-013</u>.

Environmental emergency planning must be managed in accordance with the Fire Management Site Standard <u>SHEMS-STD-GR-021</u> and Appendix B.6 of the Construction Phase Plan. The Major Incident Response Plan must be implemented where relevant.

Reporting and investigation of environmental incidents must be undertaken in accordance with the Incident and Near Miss Reporting Standard <u>SHEMS-STD-GR-011</u>.

### 4.7 Monitoring, Auditing & Reporting

Please refer to 6.18 of the Construction Phase Plan.

### 4.8 Management Structure & Responsibilities

Please refer to 6.1 and 6.2 of the Construction Phase Plan.

### 4.9 Training Awareness & Competence

Please refer to 6.14 of the Construction Phase Plan

### 4.10 Energy and Fuel Use

By following the measures outlined below a site can reduce its fuel and energy consumption and as a consequence reduce its emissions and save money.

## 4.10.1 Power Planning Tool

If a generator is required the Kier Power Planning tool should be used to ensure that the correct sized generator is specified for the project. The tool can also be used to determine the size of the temporary electricity supply required for the project.

Over the course of a project use the tool to regularly review the size of generator required and downsize where appropriate.

The tool will also advise if a hybrid generator is appropriate for your site. A hybrid unit moderates generator use at times of low demand, such as overnight.

<u>SHEMS-FOR-GR-037</u> Kier Power Planning Tool (Existing Sites) <u>SHEMS-FOR-GR-038</u> Kier Power Planning Tool (New Sites)

### 4.10.2 Energy Saving Measures

The site will give consideration to adopting the following energy/fuel saving measures:

- Using energy efficient fluorescent, LED or metal halide lamps for security lighting and task lighting
- Ensuring external lighting is fitted with daylight sensors to ensure that they turn off automatically between dawn and dusk.
- Using transformers fitted with a timer, or a timed distribution board, that will automatically switch off and on, at pre-set times, non-critical temporary electric supplies. DO NOT connect emergency lighting to any timed circuit as you will damage the battery back-up pack.
- Using hybrid lighting towers, which are powered by a rechargeable battery
- Ensuring temporary cabins are fitted with: low energy lighting (T5 Fluorescent or LED, timers to electric heaters, point of use water heaters door closers and passive infra-red (PIR) sensors to lighting in low use areas
- Using well maintained, low emission, fuel efficient plant
- Avoiding plant being left idling
- Ensuring tyres are inflated to the specified pressure

## Schedule I - Environmental Aspect & Impact Assessment

Activity	Aspect	Impact	Normal / Abnormal or Emergency	Initial Impact	Kier SHEMS Control Hard copies available from MyKier	Local Control Must be included in relevant method statements	Residual Impact
	Emissions to Air	Dust, SOx and NOx could impact local air quality. Carbon emissions from plant / equipment contribute to climate change.	Normal	в5	Pollution prevention procedure and guidance	Mains power connection installed. Meter installed - first reading to be entered for November. Well maintained generators where needed.	В3
Site Set-Up & Accommodation	Emissions to Land	Spill of fuel / COSHH substances to land causing pollution.	Abnormal or Emergency	C4	Pollution prevention procedure and guidance	Fuel storage located on hardstanding. Substances are stored in accordance with COSHH assessments. Fuel storage location is within 10m of live surface water drainge - drainage gullies have been blocked off using polythene liner to mitigate the risk of a major spill. Drain bund available onsite - drainage run goes through interceptor. Bunding, spill kits, instructions, supervised refuelling, spill response training and regular monitoring.	C2

Emissions to Water	Spill of fuel / COSHH substances into a watercourse / drain causing pollution.	Abnormal or Emergency	C4	Pollution prevention procedure and guidance	Fuel storage located on hardstanding. Substances are stored in accordance with COSHH assessments. Fuel storage location is within 10m of live surface water drainge - drainage gullies have been blocked off using polythene liner to mitigate the risk of a major spill. Drain bund available onsite - drainage run goes through interceptor. Bunding, spill kits, instructions, supervised refuelling, spill response training and regular monitoring.	C3
Waste Generation	Generation of canteen & office waste.	Normal	СЗ	<u>Waste</u> management procedure and guidance	Provide separate wheelie bins and possibly segregated collections for paper / card etc. Segregate hazardous waste. Implement site waste management plan. Position and direct	C2
Nuisance & Env. Health	Security lighting & generator noise could cause nuisance to local users.	Normal	В5	<u>Nuisance</u> <u>management</u> <u>procedure and</u> <u>guidance</u>	lighting away from adjacent buildings. Minimise lighting to site core hours. Work only within agreed hours.	B3
Ecology & Biodiversity	Damage could occur to ecology if not identified / protected. Biodiversity could be enhanced by preserving or improving habitats.	Abnormal or Emergency	C4	Ecology and biodiversity procedure and guidance	Preliminary Ecological Appraisal completed, recommendations are implemented for all areas affected by the works No other significant issues identified.	C2

		Domogo could					
	Cultural Heritage	occur to cultutral heritage if not identified / protected. Public awareness of cultural heritage could be enhanced by discovery and / or preservation of features.	Normal	D2	Archaeology and heritage procedure and guidance	Surveys completed, no issues with cultural heritage identifie. No control measures required.	D1
	Use of Raw Materials	Use of materials for hoarding (e.g. timber), steps, access routes, signage.	Normal	C3	<u>Materials</u> guidance	Implement timber policy, use materials efficiently.	C2
	Use of Natural Resources	Poor energy and water efficiency resulting in excessive use of natural resources.	Normal	СЗ	<u>Natural resource</u> guidance	Energy and water supplies are metered and readings recorded monthly e.g. on smartER. Consider low-flow taps, waterless urinals, eco- cabins, timer switches, daily checks etc. Display appropriate 'switch off' signage / posters and / or implement educational campaigns / initiatives to improve energy / water consumption.	C2
Site Clearance	Emissions to Air	Dust, SOx and NOx could impact local air quality. Carbon emissions from plant / equipment contribute to climate change.	Normal	В5	Pollution prevention procedure and guidance	Appropriate dust suppression used where needed and effectiveness monitored.	Β4

Emissions to Land	Spill of fuel / COSHH substances to land causing pollution.	Abnormal or Emergency	C4	Pollution prevention procedure and guidance	Fuel storage located on hardstanding. Substances are stored in accordance with COSHH assessments. Fuel storage location is within 10m of live surface water drainge - drainage gullies have been blocked off using polythene liner to mitigate the risk of a major spill. Drain bund available onsite - drainage run goes through interceptor. Bunding, spill kits, instructions, supervised refuelling, spill response training and regular monitoring.	C2
Emissions to Water	Spill of fuel / COSHH substances into a watercourse / drain causing pollution.	Abnormal or Emergency	C4	Pollution prevention procedure and guidance	Fuel storage located on hardstanding. Substances are stored in accordance with COSHH assessments. Fuel storage location is within 10m of live surface water drainge - drainage gullies have been blocked off using polythene liner to mitigate the risk of a major spill. Drain bund available onsite - drainage run goes through interceptor. Bunding, spill kits, instructions, supervised refuelling, spill response training and regular monitoring.	C3
Waste Generation	Vegetation waste, fly-tipped & residual wastes.	Normal	C2	Waste management procedure and guidance	No control measures required	C2

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	Nuisance & Env. Health	Noise from plant / equipment, lighting etc.	Normal	В5	Nuisance management procedure and guidance	Work only within agreed hours. Direct lighting away from properties. Minimise vehicle movements.	B4
	Ecology & Biodiversity	Damage could occur to ecology if not identified / protected. Biodiversity could be enhanced by preserving or improving habitats.	Abnormal or Emergency	C3	Ecology and biodiversity procedure and guidance	Preliminary Ecological Appraisal completed, recommendations are implemented for all areas affected by the works.	C2
	Emissions to Air	Dust, SOx and NOx could impact local air quality. Carbon emissions from plant / equipment contribute to climate change.	Normal	СЗ	Earthworks and Contaminated Land Procedure and Guidance	Appropriate dust suppression used where needed and effectiveness monitored.	C2
Groundworks / Earthworks	Emissions to Land	Spill of fuel / COSHH substances to land causing pollution.	Abnormal or Emergency	C4	Earthworks and Contaminated Land Procedure and Guidance	Fuel storage located on hardstanding. Substances are stored in accordance with COSHH assessments. Fuel storage location is within 10m of live surface water drainage - drainage gullies have been blocked off using polythene liner to mitigate the risk of a major spill. Drain bund available onsite - drainage run goes through interceptor. Bunding, spill kits, instructions, supervised refuelling, spill response training and regular monitoring.	C3

Emissions to Water	Spill of fuel / COSHH substances into a watercourse / drain causing pollution.	Abnormal or Emergency	C4	Earthworks and Contaminated Land Procedure and Guidance	Fuel storage located on hardstanding. Substances are stored in accordance with COSHH assessments. Fuel storage location is within 10m of live surface water drainage - drainage gullies have been blocked off using polythene liner to mitigate the risk of a major spill. Drain bund available onsite - drainage run goes through interceptor. Monitoring of run-off from crushed concrete - ensure run-off does not enter surface water drainage. Bunding, spill kits, instructions, supervised refuelling, spill response training and regular monitoring.	C3
Waste Generation	Generation of various wastes e.g. hazardous & non-hazardous soil, hazardous & non-hazardous asphalt, concrete, hard core, stone, formwork contaminated with mold oil etc.	Normal	C4	Earthworks and Contaminated Land Procedure and Guidance	Reuse suitable excavated material on site, consider CL:AIRE code of practice for reuse on other sites. Surplus / unsuitable soil to be subject to full waste characterisation and if going to landfill, WAC testing. Tarmac to be tested for concentration of coal tar found to be present from the use of PAK marker spray. Implement site waste management plan.	C3

	Nuisance & Env. Health	Dust, noise, vibration, mud on road may cause nuisance to local residents.	Normal	СЗ	Earthworks and Contaminated Land Procedure and Guidance	Work only within agreed hours. Consider siting of plant / equipment, monitoring requirements, communication with neighbours. Provide appropriate wheel washing facilities.	C2
	Use of Raw Materials	Use of timber or sacrificial material etc. for formwork / falsework. Use of mold oil. Topsoil quality could be affected by poor stockpiling / mixing with subsoil.	Normal	СЗ	Earthworks and Contaminated Land Procedure and Guidance	Reuse formwork / falsework, use materials efficiently. Core of topsoil stockpile to be no more than 1 metre from surface / topsoil and subsoil to be stockpiled separately.	C2
	Use of Natural Resources	Fuel use in plant & equipment.	Normal	B5	Earthworks and Contaminated Land Procedure and Guidance	Maintain plant / equipment, turn off when not in use, monitor & record fuel use e.g. on smartER.	В3
	Emissions to Land	Unauthorised discharge onto land (i.e. discharge on site) could cause land pollution - particularly if road sweeper has been on another site.	Abnormal or Emergency	C3	Pollution prevention procedure and guidance	No discharge on site	C2
Road Cleaning	Emissions to Water	Unauthorised discharge onto land (i.e. discharge on site) could cause pollution of watercourse via run-off - particularly if road sweeper has been on another site.	Abnormal or Emergency	D2	Pollution prevention procedure and guidance	No discharge on site	D1
	Waste Generation	Discharge of road sweeper tank onto open ground is fly- tipping and could cause local pollution of land / water.	Normal	СЗ	<u>Waste</u> <u>management</u> <u>procedure and</u> <u>guidance</u>	Road sweeper to be managed as per other waste contractors. Implement site waste management plan.	C2
	Nuisance & Env. Health	Road sweeping prevents nuisance from mud on road (positive impact). Noise outside of	Normal	C2	Nuisance management procedure and guidance	No control measures required	C2

		site hours could cause nuisance.					
	Emissions to Land	Leaks / spills from vehicles parked on site could cause local pollution.	Abnormal or Emergency	C2	Pollution prevention procedure and guidance	Parking on hardstanding	C2
Traffic / Parking	Emissions to Water	Leaks / spills from vehicles parked on site could cause local pollution from run-off.	Abnormal or Emergency	СЗ	Pollution prevention procedure and guidance	Protect sensitive land by use of suitable material to construct temporary car parks. Provide spill kits, instructions & spill response.	C2
	Nuisance & Env. Health	Parking on local roads could cause nuisance to neighbours.	Normal	C2	Nuisance management procedure and guidance	No control measures required	C2



# Thornton Building

## APPENDIX C

## SITE ARRANGEMENT & TRAFFIC PLANS

After detailed site visits and discussions Kier Construction have developed a full traffic management plan that will satisfy The Thornton building Project and ourselves for construction activities.

It is our intention to get all delivery vehicles on to site as quickly as possible to alleviate congestion. Vehicles will enter and exit the site via the separate entrance to the south of the genome campus roundabout. They will then utilise the turning areas within the Contractor's compound supervised by a Banksman and always exit the site forward facing.

Vehicle access and egress will be safely managed & coordinated throughout the works with a dedicated banksman/gateman in attendance as required.

Restricted car parking will be provided in the designated site compound parking areas only.

## Site Management

Upon possession of the site, temporary Heras fencing will be erected to the perimeter of the main works site to provide a secure and safe working area. A solid hoarding will then be provided to the access gate areas and separate gates will allow a dedicated pedestrian access route to the site offices. This will be erected to allow suitable visibility splays for vehicles exiting the site.

Temporary site offices and welfare facilities will be placed within the compound area. A temporary electrical supply will be required.

Materials storage and waste segregation will be located within the site area with a dropdown area adjacent to the main gate. As space is limited 'just in time' deliveries will minimise the requirement for material storage. All deliveries will be booked in with site management 48 hours in advance. Any delivery arriving outside of the predetermined slot may be turned away if there is no on site waiting space available and directed to the identified off site holding area..

## **Craneage Plan**

Craneage will be by truck mounted mobile cranes and crawler cranes – primarily to erect the concrete frame to the lower area, the CLT frame and glulam beams to the upper areas also precast concrete/CLT stairs. Hard standing areas will be provided on the site for mobile cranes to be positioned – a detailed lift plan will be developed by Construction Plant Certification scheme qualified Appointed Persons - as the project progresses.

### **Material Distribution / Access**

Materials will be scheduled to be delivered to site as required ideally adopting a 'just in time' approach. A dedicated hard standing area will be assigned on the construction phase site.

The external elevations will be accessed using MEWPs or via scaffolding. Loading bays will be provided to allow loading and unloading of materials and waste. Access stairs will be used and placed strategically to enable access/safe means of escape – NB ladders will not be used to access upper levels/scaffolding.

Refer to the following detailed Traffic Management plan for the project:

## Appendix C



## **Construction Site Entrance**





## Thornton Building

Appendix D

Dust Management, Noise Management & Stakeholder Engagement Communications

## Introduction

The following sets out the general approach to eliminate, mitigate and manage dust and noise emissions in relation to the Thornton building during the Construction Phase. Also, to highlight stakeholder engagement and communication routes

## Site

The site is located on the welcome trust genome campus at Hinxton, Cambridge.

## General Description of Works to be carried out

- Groundwork's
- Concrete frame and retaining walls
- CLT
- Glulam beams
- Steel frame
- External cladding
- Internal Works
- External Finishing Works

## **Nominated Representative**

A member of the Site Management Team will be nominated as the "nominated

representative" responsible for the implementation of the dust and noise mitigation and

management strategy and will fulfil this duty on a day to day basis.

It will be this person's responsibility to ensure:

- The dust mitigation measures are implemented on site.
- The dust monitoring is carried out as set out in this protocol; and
- The vibration mitigation measures are implemented on site. This will consist of vibration monitors placed adjacent to the sensitive equipment of the Olgivie Building with autodial function to Kier Site Managers mobiles for pre-warnings prior to reaching unacceptable vibration levels.
- The remedial action in the event that the trigger levels are exceeded, as detailed below; and
- The results of the monitoring are reported recorded within site records accordingly

## Site Activities

Noise and Dust generating activities may occur during the construction phase of the development and all efforts will be made to eliminate, mitigate this.

## **Working Hours**

All construction works will be carried out during the hours of 0730 to 1800hrs Monday to Friday with limited works being planned for Saturday. There will be no works on Sundays or bank holidays.

Due regard will be given to activities that have potential to generate noise and will be carried out at times which are less likely to cause nuisance to all.

## Local Resident Liaison;

Kier will issue local residents a newsletter which advises of forthcoming activities. It is our intention to continue with this policy throughout the construction phase. We will also supplement this activity with letter drops to advise of any unusual activities as they may occur.

In addition, The Urban&Civic appointed Project Manager, working with the Urban&Civic appointed Communications, Communities and Partnerships representative will act as a central point of contact between Urban&Civic, the Principal Contractors, the local community and other third parties.

The Urban&Civic appointed Communications, Communities and Partnerships representative will have the responsibility of keeping the local community informed of construction progress through the Community Liaison Group and be the main point of contact with them should any issues arise.

## **Potential Receptors to Dust & Noise**

- General Public
- Local residents/stakeholders
- Operatives
- Kier staff and visitors

## **DUST---Assessment of Potential Risk: Construction Phase**

The initial enabling works, excavations and demolition works do have a potential to cause air borne dust.

Additionally movement of plant and equipment and disturbance of running surfaces has the potential to generate air borne dust.

The general construction activities have also the potential to generate dust through day to day activities in three different categories:

- 1. Silica Dust---Concrete/Masonry etc.
- 2. Non Silica Dust---Plasterboard
- 3. Wood Dust---Skirting/Architraves/Kitchens/furniture etc.

Dust mitigation will be in place throughout the duration of the construction phase as well as effective dust monitoring at the site boundary. Monitoring will be via Casella Guardian2 boundary monitors ( or similar) with data logging and will monitor noise, dust and vibration.

Element	Dust Mitigation and Control Methods
Communications	Develop a stakeholder communication Plan Display name and contact details of responsible person for dust issues on site boundary. Display Office contact information
Dust Management	Implement the Kier Minimum Standards for managing dust.
Site Management	Record all complaints and incidents and resulting actions in a site log book. Record any exceptional events Liaise with the project stakeholders.
Monitoring	Undertake daily on and off-site visual inspections.
	Increase frequency of inspections during periods of high-risk activities or in dry periods Follow the Kier monitoring protocol.

## Dust Control

Preparing and Maintaining the Site	Use site layout to locate activities away from sensitive receptors Erect solid screens and barriers around site. Avoid site run off of water and mud Keep site fencing barriers and scaffold clean. Reduce storage of dusty materials to a minimum. Minimise emissions from stockpiles by covering or damping down.
Construction Traffic	Sheeting and containment of delivery Vehicles Compliance to the Construction Logistics Plan to manage delivery of goods. Record inspections of haul routes in the site log book. Implement the sustainable Travel Plan for site workers. Access to the site via paved areas Regularly sweeping of access roads using water assisted dust sweepers. Damping Down during dry periods Limiting Vehicle speeds Switching off all engines when not in use Provision of Debris Netting barrier where required All vehicles will be monitored and washed down during inclement weather before leaving site if necessary.
Measures specific to Excavations	Minimize drop heights when loading and off loading In dry periods damp down general area Sheeting and containment of the loads immediately
Measures specific to RC Frame	As the general floor levels progress it is proposed to concentrate on the façade at the work facethus containing any potential dust risk early in the construction programme and prevent noise break out
Measures specific to CladdingPC Panels and integrated windows	Due to being manufactured off siteThis greatly reduces the risk of dustto both operative's and third parties

Distribution of Materials via Hoist and Scaffold Tower	The scaffold Tower (Subject to a Temporary Works design) will be fully screened off. Water will be available on the common Hoist Towerto allow for dust suppression as required.
CuttingMasonry/Concrete.	Cutting equipment will use water as a dust suppressant. Dust extraction units will be fitted to equipment wherever possible and site personnel will ensure equipment is in good working order. Note General Cladding Panels are manufactured off sitethus minimising the risk of dust generation due to reduced workload on site. Face Fit dust masks will be provided to Operatives.
CuttingWoodCarpentry/Kitchens	Dust extract equipment will be fitted to all saws Face Fit Dust Masks will be provided in accordance with the agreed Risk Assessments and method statements.
General Construction Activities.	Effective barriers around dusty activities and site boundary will be introduced and the area cordoned off with a permit to enter system in operation. Site will not allow runoff of water or mud onto the public highway. The need for dust masks will be risk assessed and implemented in accordance with the agreed method statements. Ensure suitable cleaning materials are available at all times to clean up spills.
Waste Management	Only use registered waste carriers to remove waste off site. No bonfires on site. All floor plates will be cleaned regularly damping down as required during the process. Waste Bins will be made available at all levels A central waste management area will located at ground levelMaterial will be sorted and segregated off site
	Use enclosed chutes and conveyors.

## Noise Control

Noise can emanate from a wide variety of sources across all activities:

Source of Noise	Noise Mitigation and Control Methods
Construction Traffic/Plant and Equipment Tools	Switching off all engines when not in use All vehicles to be fitted with silencers All Plant and Equipment will be in good working order, regularly serviced and maintained All plant and equipment will be used in an efficient way by trained personnel. Stationary plant will be cited with consideration to the local environment, railway assets and those likely to suffer nuisance as a consequence. All equipment will be selected with due regard to the noise emission's levels and ear protection will be worn in accordance with the manufacturers and hirers recommendations our as stated within the agreed method Statement and Risk Assessments
Noise break out at Boundary.	Careful selection of noise reduction equipment and areas will provide better noise and indeed dust control at the boundary.
General Construction Activities	Site Management will manage and control all activities and personnel on site. Kier will sign up to the considerate constructor's scheme. All personnel will inducted and will be aware of the requirements to minimise Noise Regular Tool Box Talks will be given to ensure risks and the need to wear ear defenders are fully understood
Concrete Frame and Cladding	See comments under Dust Control Section.

## Noise & Dust Monitoring;

## Dust

Kier will undertake visual inspections of all construction activities for evidence of dust and record the findings within the site records and, throughout the construction phase, will ensure all contractors comply to all relevant method statements and risk assessments. Dust, noise and vibration monitors will be located at locations at the site boundary,

Kier will respond directly to any concerns raised in relation to dust directly.

## Noise

Kier will monitor the site and surrounding area but as the site is a long way from any domestic neighbour we will closely liaise with the adjacent building on the Genome campus as we will have to in relationship to vibration.

## Monitoring

We propose to undertake vibration monitoring with data logging and will monitor noise, dust and vibration to determine levels at specified locations at known times during the working day. All equipment will be fully calibrated, and in good working order at all times. Monitoring will always be carried out by a competent member of the Kier site staff, with daily logs being maintained throughout the construction period.

We will obtain background noise during periods of non-activity on site.

Monitoring will be undertaken not less than twice daily, once in the morning, and once during the afternoon, at each specified monitoring location. Data will be gathered during normal site operation.

We feel it will not be necessary to carry out dust monitoring during periods of significant precipitation. All such periods will be recorded in the site log sheets.

Kier also recognises the need to monitor the effect of dust and noise on the workforce and record their findings accordingly and wherever possible ensure that exposure is eliminated, minimised or if unavoidable, the right protective measures are adopted.

Monitoring Process	Visual monitoring of downwind site
	boundaries on a regular basis.
	<ul> <li>Monitoring using meters and acting on</li> </ul>
	empirical data recorded
	<ul> <li>Stop works as required and take</li> </ul>
	mitigation measures.
	<ul> <li>Review and up-date dust control</li> </ul>
	measures as required.
	All personnel will be inducted and / or
	trained as required.

## **Complaints Procedures**

Kier will clearly display contact details at the main construction site entrance and will issue site contact details in regular newsletters.

Kier will keep accurate records of any complaints received.

Kier also propose that we will liaise with the *Local Authority Environmental Protection Team* on any complaints received if deemed necessary and advise how we have addressed them.



## Thornton Building

## Appendix E

Programme

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41 Cladding	06/09/22	2 06/09/22						41																				
42 Curtain walling, windows & doors	06/09/22	2 06/09/22						42																				
43 Roof finishes	06/09/22	2 06/09/22		Ľ																								
44 Brick / blockwork	13/09/22	2 13/09/22						∳																			1	
45 SFS	13/09/22	2 13/09/22						45																				
46 Lift	13/09/22	2 13/09/22						46																				
																					1					1		
			-19-18-17	-16-15-14	-13-12-11-10	-9-8-7-6	-5 -4 -3 -2	-1 1 2 3	3 4 5 6 7	7 8 9 10	11 12 13 14	15 16 17 18 19	20 21 22 23 2	4 25 26 27 28	29 30 31 32	33 34 35 3	6 37 38 39 4	0 41 42 43 4	44 45 46 47	48 49 50 5'	1 52 53 54 5	5 56 57 58	59 60 61 62	2 63 64 65	6 67 68 69 7	0 71 72 73 74	75 76 77 7	8 79 80 81 82 83
Lina	Stort	Finish	2	16 30	13 27	11 25	8 22	5 1	9 3 1	7 31 1	14 28	12 26 9	23 6	20 6	20 3	17 1	15 29	12 26	10 24	7 2	1 4 1	8 2	16 30	13 27	11 25	8 22	5 19	4 18 1
Line Name	Siaft		A N	lay	June	July	August	Septem	ber Octob	ber Nove	ember De	ecember Jar	uary Febr	uary Marc	h Ap	oril	May	June	July	August	Septem	ber Oct	tober No	ovember	December	January	February	March A
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			4.4						A 14 O	<u> </u>	1							1		. <u>2</u> 0 J	uiy 20.	~~			Diaw	11 DY. 1	A	
GRL Constr	uctio	on L	.td						Alt 2	- Op	timu	m Pro	gram	me -	sprin	Kler	s ado	aed	GIFA	: 4.20	)0m²				Page	e: 1	of 10	
									GIFA: 4,200m*							Faye. IOIIU												

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					1	lune	Julu Au	2022		Ostabas	Nevember	December Januar	. Fahruari	Marak	And	Mari	20	23		Pantanihan	0.4.4.4.4	Maxandran	December	lanuar:	2024	March A
Line	Name	Start	Finish		nay 40 i		JUIY AUU	00 5					rebluary	March	April	May		JUIY P	iugusi i	September			Decentiber	January	Febluary	Maicii A
				40 40 47		50, 13, 27, 1		22, 10	119	3 11	31, 14, Zi	8 <u>12</u> 20 <u>9</u>		0, 20, 0	3 1/		29, 12, 20	10 24 /					1 11 20 5 cc c7 co co 70	0 22	2 19	4 10 1
17		00/00/00	0.00/00/00	-19-10-1/	-10-10-	14-13-12-11-10-9	-8 -/ -0 -0 -4 -	3 -2 -1 1	2 3 4	0 / 0	9 10 11 12 1	3 14 13 10 17 18 19 20	21 22 23 24 23 2	0 27 28 29 30	31 32 33 34	30 30 3/ 38	<u>59 40 41 42 43</u>	44 43 40 47 48 49	0001020	0 04 00 00 0	0 00 60 90 0	02 03 04 0	01 60 00 10 00 01	11 12 13 14	10 10 11 18	19 00 01 02 03
4/	Partuons & Cellings	20/09/22	2 20/09/22			<u>t</u>			1×														//		-	
48	Floor linishes	20/09/22	2 20/09/22																						-	
49	Raised access libor	20/09/22	2 20/09/22																				//			
50	Decorations	27/09/22	2 27/09/22						Ĭ																	
50	FF&E	21/09/24	2 21109/22		$\left  \right $	2			51														//			
52	RIBA Stage 5 review & co-ordinate CDP's	21109/24	2 13/01/23						52																	
52	VE Ontione	12/00/25	2 26106122		$\left  \right $											1				++++	++++	++++	//			k
55	Ve options	12/09/2	2 20/00/23		$\left  \right $			2							-					++++	++++	++++				<b>n</b>
54	Alternative AHLI Menufacturer	12/09/2	2 24/10/22						Ш														//			<u>K</u>
50	Alternative DV split system manufacturer	12/09/22	2 24/10/22								r submit detailed pre														-	
50		12/09/22	2 24/10/22						Ĭ	- X													//			
57	Alternative manufacturer to KGN Philinger	12/09/24	2 24/10/22						Ĭ	<b>•</b>													//			
50	Rationalise ventilation systems	12/09/24	2 07/11/22						Ĭ		<b>Y</b>												//			
09	Rationalise not water systems - install local electrical point of use water neaters	12/09/24	2 07/11/22					594	ХII		•												//			
00	Umit Arc fault detection devices	12/09/24	2 24/10/22					604	<b>Y</b>	•													//			
60	Alternative internal deer manufacturer	14/11/2	2 22/12/22		$\left  \right $	∦┼┼┼┤			$\left  \right  $	+ + +	01		+++++	++++			++++			++++	++++	++++	+++//	$\left  \right  \left  \right $		
02		14/11/22	2 23/12/22		$\left  \right $	<u>;        </u>			+++	+ +			+++++	++++	+		++++			++++	++++	++++	+++K			
03		14/11/22	2 23/12/22		$\left  \right $	$\{         \}$					w <b>∀</b>	┼┼┥┓	+++++				++++			++++		++++	+++//			
04	Dillius Alternative blinde menufacturer	24/03/2	3 22/05/23		$\left  \right $	<u>;</u>							+++++	64						++++		++++	++ 1/			
00	Alternative blinds manufacturer	24/03/23	3 22/05/23													. 🕈										
00	Brise Soleli	13/03/2	3 11/04/23											60									//			<u>k</u>
07	Alternative brise soleli - aero prome snaped in lieu ol nat lins	13/03/23	3 11/04/23											b/ <b>Q</b>	Y											- 1
00	rixed rumiture & Equipment	20/04/2	3 20/00/23			<u> </u>									65								//			<u>k</u>
70	Alternative adjustable task chair with no arms	20/04/23	3 20/00/23			· · · · · ·									69											n
70	Alternative stackable uphoistered meeting chairs	20/04/23	3 20/00/23												70								//			<u>k</u>
71	Alternative cork stools	26/04/2	3 26/06/23			· · · · · ·									71											n
72	Alternative cusnions to upnoistered banquette seat	26/04/2	3 26/06/23												72		<b>•</b>						//			<u>k</u>
73	Alternative reception desk to Reception	26/04/2	3 26/06/23												73		<b>•</b>									<u>n</u>
74	Alternative reception desk to IT Hub	26/04/2	3 26/06/23												74		<b>•</b>						//			<u>k</u>
70	Alternative to fixed not desks	20/04/23	3 20/00/23			/																			1	
70	Alternative to stackable mobile tables	20/04/23	3 20/00/23												/5								//		1	<u>¥</u> _
70	Alternative to mid double cupboard with one shell	20/04/23	3 20/00/23																						1	
70	Alternative post unit	20/04/23	3 20/00/23			ŗ									/8		<b>•</b>						//			<u>_</u>
19	Change from Rouder Total reafing output to Rouder Flow	20/03/2	2 17/04/23		$\left  \right $	<u> </u>								79			++++			++++	++++	++++				
00	Addition of Sprinkler requirement	20/03/23	3 17/04/23		$\left  \right $	r									Y		++++			++++	++++	++++				<u> н н</u>
01	Addition of Sprinkler requirement	12/09/22	2 24/10/22		$\left  \right $												++++			++++	++++	++++				
02	Alternative Standard Cladding Products	12/03/22	2 24/10/22						Y.∐	Y					-										+	<u>/</u>
03	Change Cladding material from bespeke patterns and profiles	10/00/22	2 21/10/22			<u> </u>										<u> </u>									+	
04	onango oraduling material nom pespore patterns and promes	10/08/22	2131/10/22		$\left  \cdot \right $			┼╂	ĩΉ				+++++	++++			++++			++++	++++	++++	+++//			
85	Key Package Procurement	08/08/2	2 03/11/22		$\left  \right $	╏┼┼┼┤																	+++			
38	Packanes Without Design	08/08/2	2 19/09/22	$\vdash$	$\left  \right $				ЦH			++//=		+++-								•	++//			
87	Site accommodation	08/08/2	2 05/09/22		$\left  \right $	<u>t          </u>	57	<u> </u>			++++		+++++	++++			++++			++++			$++ \kappa$			
88	Temporary hoarding/fencing	08/08/22	2 05/09/22		$\left  \right $	₩		ŢŢ			++++		+++++				++++									
89	Groundworks	15/08/22	2 12/09/22		+ +	₿		T.																		
90	Bulk earthworks	22/08/22	2 19/09/22		$\square$	81111	9	80																		
91	Contractor Designed Portion (CDPs)	22/08/22	2 03/11/23			ţ 👘		91																	1	
92	RC Frame	22/08/22	2 22/08/22		+	8 1 1 1 1	5	<b>\$</b>																		
93	Order	22/08/22	2 26/08/22			ţ 👘																			1	
94	Design	30/08/22	2 26/09/22		$\square$	81111		н																		
95	Design review	27/09/22	2 10/10/22		$\square$				95																	
$\models$	· · · · · · · · · · · · · · · · · · ·		1	10 40 47	10 40	44 40 40 44 40 0	0 7 6 5 4		0 0 4	5 6 7 6	0 10 14 40 4	2 44 45 40 47 40 40 00	24 00 00 04 05 0	07 00 00 00	24 22 22 2	125 26 27 20		AA AE AC AT AO 40	50 54 50 5	2 54 55 50 5	7 50 50 00 0	1000040	E CC C7 C0 C0 70	74 70 70 74	75 76 77 70	70 00 04 00 00
		1	1	-19-18-1/	-10-15-	14-15-12-11-10-9	-0'-/'-0'-5'-4'-	0'-2'-1'1	2 3 4	00/0C	9.10.11.1Z.1	3 14 15 10 1/ 18 19 20	21 22 23 24 25 2	0 21 20 29 30	0 32 33 3	+ 30 30 3/ 38	0 40 41 42 43	44 40 40 4/ 48 49	00.01.02.0	0.04.00.00.0	0.00.00.00.00	1 02 03 04 0	0.00.01.09.00.01	0 00	10.10.11.10	19 00 01 02 03
Line	Name	Start	Finish	12	10	00 '13 '2/ '	11 20 0	22 '5	·19	0 °1/	JI 14 2	0 '12 '20 '9 December	20 10 120	10 ZU	3 '1/ A1	1 10	(a) 12 20	10 '24 '/	'ZI '4	entembre	0 oto	J 13 2	1 11 20	0 'ZZ	"J "19	4 10 1
		1	1	A' N	ndy	June	july 'AUç	usi 'Si	eptember '	UCIÓDER	November	December Januar	repruary	March	Арпі	мау	June	July A	iugusi 'S	septerriber '	UCIODEL	November	December	January	redruary 1	March 'A
		<u> </u>	1	<u> </u>				2022				1					20	23							2024	
																		Ref. C	Δ_22	032-T	202		Revie	ion <sup>.</sup>	3	
I I	Thornton Bu	ildir	na						Te	ende	er Pr	ogramr	ne						.,22-	002-16	02		1,015	L	-	
I I			5						'			5	-					Date: 2	5 July	2022			Draw	n by: F	PA	
	GRI Constru	ctic	nn I	td					Δι	t 2 - (	Ontim		ramm	a _ en	rinkl	ers 20	hah		,							
1		out						GIFA: 4,200m <sup>2</sup>									Page	: 2	of 10							





		1		1	2022			1					2023						:	2024	
			_	A May June July	August I S	eptember October	November Dece	ember Januarv	February	March	April I N	lav <sub>I</sub> June	e i Ju	ılv August	September	October N	ovember i Decembe	January	/ Feb		March r
Line	Name	Start	Finish	2 16 30 13 27 11 2	5 8 22 5	19 3 17	31 14 28 11	2 26 9 23	6 20	6 20 3	17. 1	15 29 12	26 10	24 7 21	4 18 2	16 30	13 27 11 1	5 8 6	22 5	19.	4 18 1
				-19-18-17-16-15-14-13-12-11-10-9-8-7-	61-51-41-31-21-11	2 3 4 5 6 7 8	9 10 11 12 13 14 1	5,16,17,18,19,20,21	22 23 24 25 26	27 28 29 30 3	32 33 34 35 36	37 38 39 40 41 4	2 43 44 45	46 47 48 49 50 51 5	52 53 54 55 56 57	7 58 59 60 61 62	2 63 64 65 66 67 68	9 70 71 72	73 74 75 7	6 77 78	79 80 81 82
197	Time Risk Allowance (TRA)	07/11/22	09/11/22	2			197														
198	Substructure	10/11/22	15/03/23	3			198			-	1										
199	Retaining Wall	15/11/22	24/01/23	3			199											20			
200	Excavate retaining wall base	15/11/22	17/11/22	2			200											$\lambda$			
201	Blinding	17/11/22	18/11/22	2			201											2			
202	Construct foundation - FRC	18/11/22	01/12/22	2			202											$\times$			
203	Construct wall - FRC	25/11/22	15/12/22	2			203				4							2			
204	Cure & strike formwork	16/12/22	12/01/23	3			204					1						$\mathbf{X}$			
205	Drainage & backfill	13/01/23	19/01/23	3				205										21			
206	Time Risk Allowance (TRA)	20/01/23	24/01/23	3				216										$\mathbf{X}$			
207	External Ramp	15/12/22	15/03/23	3			207											21			
208	Excavate retaining wall base	15/12/22	21/12/22	2			208											$\lambda$			
209	Blinding	21/12/22	22/12/22	2				209										$\mathbf{N}$			
210	Construct foundation - FRC	22/12/22	25/01/23	3				210										XII			
211	Construct walls - FRC	19/01/23	15/02/23	3				211										$\mathbf{N}$			
212	Cure & strike formwork	16/02/23	01/03/23						212												
213	Drainage & backfill	02/03/23	08/03/23	3					213												
214	Time Risk Allowance (TRA)	09/03/23	15/03/23							4 Ku											
215	Pad Foundations	10/11/22	03/02/23	8			215				ł										
216	Excavate & construct pad foundations	10/11/22	03/02/23				216														
217	Excavate & construct strip foundations	24/11/22	31/01/23	3			217		I I I									21			
218	Excavate & construct lift pits	17/11/22	07/12/22	2			218											$\sim$			
219	Time Risk Allowance (TRA)	15/12/22	16/12/22	2			219											21			
220	Lower Ground Floor Slab	12/12/22	02/02/23	3			220		₹												
221	Below slab drainage/ductwork	12/12/22	23/12/22	2			221											21			
222	Final grade sub-base	09/01/23	13/01/23	3														$\lambda \square$			
223	Construct slab - FRC	18/01/23	31/01/23	3				/ 23										21			_       r
224	Time Risk Allowance (TRA)	01/02/23	02/02/23	3				22													
225	RC Frame	27/01/23	14/03/23	3				225		=											
226	Construct rc walls & columns to underside of GF slab	27/01/23	16/02/23	3				226													
227	Construct GF slab	10/02/23	09/03/23	3					227												
228	Time Risk Allowance (TRA)	10/03/23	14/03/23	3						128								$2 \square$			"
229	Timber frame	15/03/23	29/06/23	3						229											/
230	Slab check	15/03/23	15/03/23	3						230											
231	Install brackets	16/03/23	21/03/23	3						231											
232	CLT/Glulam erection	22/03/23	19/06/23					-//		232								2			
233	Final snagging	20/06/23	26/06/23									233									
234	Install stair 2	08/05/23	09/05/23								234										
235		22/05/23	23/05/23									235						4			
236	Erect steel columns to overnang (incl. temporary propping)	22/03/23	28/03/23							236								2			
231	Time Dick Allowance (TDA)	13/00/23	24/05/23					+//+		++++		120						$\mathcal{U}$	+++	+++	+++
230	Time Risk Allowance (TRA)	22/00/23	24/00/23										730					×/++	+++	+++	+++
239		25/05/23	10/11/23									241						2 +	+++		+++*
241	Roof	30/06/22	10/11/22							++++			241								+++
242	Steel plant room	30/06/23	13/07/23							++++			242				<u> </u>	$\mathcal{H}$	+++	+++	+++*
243		14/07/23	27/07/23										243						+++	+++	++++
244	Linstands/kerbs to roof voids	30/06/23	20/07/23							++++			244				+++++	$\mathcal{A}$	+++		+++
245	Concrete slab to ASHP enclosure	30/06/23	06/07/23							++++			245						+++	+++	++++
246	Rooflights	14/07/23	03/08/23										246	╺┺╌┧┤┼┤┨				XH	+++		+++
247	Roof covering - warm roof	21/07/23	29/09/23											247							++++
Line	Name	Start	Finish	-19-18-17-16-15-14-13-12-11-10-9-8-7 -2 16 30 13 27 11 12 A May June July	6 -5 -4 -3 -2 -1 1 5 8 22 5 August S 2022	2 3 4 5 6 7 8 19 3 17 eptember October	9 10 11 12 13 14 1 31 14 28 12 November Dece	5 16 17 18 19 20 21 2 26 9 23 ember January	22 23 24 25 26 6 20 February	27 28 29 30 3 6 20 3 March	32 33 34 35 36 17 1 April N	37'38'39'40'41'4 15 29 12 lay June	2 43 44 45 26 10 2023	46 47 48 49 50 51 5 24 7 21 Ily August	52 53 54 55 56 57 4 18 2 September	758 59 60 61 62 16 30 October No	2 63 64 65 66 67 68 13 27 11 ovember Decembe	9 70 71 72 5 5 8 2 January	73 74 75 7 22 5 y Feb	6 77 78 19 ruary 2024	9 80 81 82 1 18 March
=	Thornton Bui	ildir	າຕ			Tend	er Proc	uramm	e				R	ef: EA-2	2-032-TF	°02	Re	ision:	В		
	KIER CDL Constant		יש היש	td							nklar-	odde		ate: 25 Ju	ıly 2022		Dra	wn by	: PA		
	GRL Constru	Construction Lta					Alt 2 - Optimum Programme - sprinklers added							GIFA: 4,200m <sup>2</sup> Pa				Page: 5 of 10			

			1	2022		002	. 2024			
				A. May June July August Se	tambar , Astabar , Navambar , Dasambar , January , Eabruary , March , Anril , May , Juna	ULJ . lulu . August . Santambar . Ostabor . Navambar .	ZU24 December , January , February , March , A			
Line	Name	Start	Finish	.2 .16 .20 .12 .27 .11 .25 .8 .22 .5	calider Outoder Novellider Devellider Jahualy Fedicaly Match April May Julie	3 10 .24 .7 .21 .4 .18 .2 .16 .30 .13 .27	.11 .25 .8 .22 .5 .10 .4 .18 .1			
					13,  3,  11,  31,  14,  20,  12,  20,  3,  23,  0,  20,  0,  20,  3,  11,  1,  13,  23,  12,  2 2, 2, 4, 5, 6, 7, 8, 0, 40, 41, 42, 43, 44, 45, 46, 47, 48, 40, 20, 42, 92, 94, 95, 96, 97, 98, 90, 24, 20, 23, 24, 25, 26, 27, 28, 20, 40, 44, 40, 4	J 10 24 1 21 4 10 20 50 51 52 53 54 55 56 57 59 50 60 61 62 63 64 65 6	6.67.68.60.70.71.72.72.74.75.76.77.78.70.80.81.82.83			
2/18	Ricer weathering haves	25/00/23	06/10/23	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
240	Collansible bandrail	25/09/23	3 06/10/23			74				
250	Paving slabs on pedestals	02/10/23	3 13/10/23	3		250				
251	Roof plant	18/08/23	10/11/23	3						
252	External Walls	25/05/23	3 10/11/23							
253	L GE - SES infills	25/05/23	22/06/23							
254	LGE windows doors & louvres	09/06/23	29/06/23							
255	GF - windows & doors	02/06/23	3 13/07/23	3						
256	FF - windows	30/06/23	3 10/08/23	3						
257	Curtain walling	23/06/23	3 20/07/23	3	27					
258	Cladding - north elevation	30/06/23	3 08/09/23	3						
259	Cladding - east elevation	11/09/23	3 20/10/23	3		259				
260	Cladding & brise soleil - south elevation	14/07/23	3 22/09/23	3		260				
261	Cladding - west elevation	25/09/23	3 03/11/23	3		261				
262	Parapet cappings	16/10/23	3 10/11/23	3		262				
263	External escape stair	25/09/23	3 29/09/23	3		263				
264	Internal Fit Out	25/05/23	3 11/01/24	4						
265	Lower Ground Floor	09/06/23	3 08/12/23	3						
266	Plant/Amenity Areas	09/06/23	3 20/10/23	3						
267	Bases/plinths to plant room	09/06/23	3 22/06/23	3						
268	Plant room installation	23/06/23	3 01/09/23	3						
269	Transformer room installation	23/06/23	3 03/08/23	3						
270	LV switch room installation	23/06/23	3 03/08/23	3						
271	Water tank room installation	30/06/23	3 10/08/23	3						
272	Stud partitions & board one side	16/06/23	3 29/06/23	3						
273	1st fix MEP	23/06/23	3 13/07/23	3	22					
274	Complete wall boarding	07/07/23	3 20/07/23	3		274				
275	Board inner face of external walls	21/07/23	3 27/07/23	3		275				
276	Tape & joint	14/07/23	3 03/08/23	3		276				
277	High level MEP	14/07/23	3 03/08/23	3						
278	Test & lag	28/07/23	3 10/08/23	3		278				
279	Plasterboard ceilings	04/08/23	3 17/08/23	3 /		279				
280	Skim ceilings	11/08/23	3 24/08/23	3		280				
281	Mist coat +1	11/08/23	3 01/09/23	3		281				
282	Suspended ceiling grid & service tiles	18/08/23	3 01/09/23	3		282				
283	2nd fix MEP	25/08/23	3 22/09/23	3						
284	2nd fix Carpentry	25/08/23	3 15/09/23	3		284				
285	Decorations	04/09/23	3 22/09/23	3		285				
286	Floor finishes	18/09/23	3 06/10/23	3						
287	1st fix IPS & Vanity units to WCs	25/08/23	3 30/08/23	3						
288	Vinyl flooring to WCs	11/09/23	3 13/09/23	3						
289	2nd fix ISP & Vanity units to WCs	14/09/23	18/09/23	3						
290	WU CUDICIES	19/09/23	20/09/23							
291	Sannanyware	21/09/23	20/09/23			41	┼┼╒╱╝┼┼┼┼┋┼┼┼┼┼┼╢╢			
292		20/09/23	20/09/23		┼┼┼┼┼┼┼┼┼╎╱╱┼┼┼┼┼┼┼┼┼┼┼╫┼┼╏┼┼╢╏┼┼╢					
293		00/10/23	20/40/20		┼┼┼┼┼┼┼┼┼┼╱╱┼┼┼┼┼┼┼┼┼╎╢┼┼╢┼┼╢		┼┼┟╱╱┥┼┼┼┼┋┼┼┼┼┼┼╏╢			
294	Duriuers wedit & Stay	16/06/02	20/10/23		┼┼┼┼┼┼┼┼┼╎╱╱┼┼┼┼┼┼┼┼┼┼╫┼┼╏┼┼╢╎╴ <u>╷┠╶</u>		<u><u></u> <u></u>                                       </u>			
200	Head tracke	16/06/23	00/12/23							
200	Hinh level MFP	23/06/23	20/07/23			╤ <mark>┹╶</mark> ┛╌╎╴┨╶╎╴ <mark>╏</mark> ╶╎┛╵╎╴╎╴╎╴┨╶┤╸┤				
208	Test & lan	07/07/23	3 20/07/23				┼┼╞╱╱┥┼┼┼╋┼┼┼┼┼╋╢			
200		ononzo	20/01/20							
				-19-18-1/-16-15-14-13-12-11-10-9-8-7-6-5-4-3-2-1-1	2 ' 3 ' 4 ' 5 ' 6 ' 7 ' 8 ' 9 '10'11'12'13'14'15'16'17'18'19'20'21'22'23'24'25'26'27'28'29'30'31'32'33'34'35'36'37'38'39'40'41'42'4	3 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 6	6'6' '68' 69' /0' /1' /2' /3' /4' /5' /6' //' /8' /9'80'81'82'83'			
Line	Name	Start	Finish	<sup>1</sup> / <sub>2</sub> <sup>1</sup> / <sub>16</sub> <sup>1</sup> / <sub>30</sub> <sup>1</sup> / <sub>13</sub> <sup>1</sup> / <sub>2</sub> / <sup>1</sup> / <sub>11</sub> <sup>1</sup> / <sub>25</sub> <sup>1</sup> / <sub>8</sub> <sup>1</sup> / <sub>22</sub> <sup>1</sup> / <sub>5</sub>	יז י	0 10 24 7 21 4 18 2 16 30 13 27	11 '25 '8 '22' '5 '19 '4 '18 '1			
				A' May ' June ' July ' August ' Se	tember Uctober November Uccember January February March 'Aphi 'May 'June	· July · August · September · October · November ·	December January ' February ' March 'A			
			I	2022		020	2024			
						Ref: EA-22-032-TP02	Revision: B			
Í	Thornton Bu	ıildir	ng		Tender Programme					
1			-		-	Date: 25 July 2022	Drawn by: PA			
Í	GRL Constru	uctio	on L	_td	Alt 2 - Optimum Programme - sprinklers added		Page: 6 of 10			
1						GIFA: 4,200m²	Page: 6 of 10			

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			ZUZZ	Laster October Neurolas December Laster Felericas Mark Asil Mar has	UZ3	ZU24			
Line Name	Start	Finish	A May June July August Se	tember   October   November   December   January   February   March   April   May   June	July August September October November	December January February March /			
			12, 16, 30, 13, 27, 11, 25, 18, 22, 5	<u>19, 13, 17, 131, 14, 128, 17, 126, 19, 123, 16, 120, 16, 120, 13, 17, 11, 15, 129, 17, 12</u>	<u>, 10, 124, 17, 121, 14, 118, 12, 116, 130, 113, 127,</u>	<u>11,25,8,22,5,19,4,18,1</u>			
			19-18-17-16-15-14-13-12-11-10-9-8-7-6-5-4-3-2-1-1	2   3   4   5   6   7   8   9  10 11  12 13  14 15  16 17  18 19  20 21  22 23  24 25 26 27  28 29 30 31  32 33 34 35 36 37 38 39 40 41 42 4	3 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 6	6 67 68 69 70 71 72 73 74 75 76 77 8 79 80 81 82 8			
299 Plasterboard ceilings	21/07/23	27/07/23	3		299				
300 Skim ceilings	28/07/23	03/08/23	3						
301 Timber slatted ceiling to seminar room	21/07/23	03/08/23	3		301				
302 Floor screed to WCs	04/08/23	07/08/23	3		302				
303 Dust sealer to slab	04/08/23	07/08/23	3		300				
304 Mark pedestal positions	08/08/23	09/08/23	3 4 4 4		34				
305 MEP below raised access floor	10/08/23	31/08/23	3		305				
306 Raised access floor	24/08/23	07/09/23	3		305				
307 1st fix stud partitions & board one side	01/09/23	21/09/23	3		307				
308 MEP within walls	08/09/23	05/10/23	3		308				
309 Complete wall boarding (incl. external walls)	22/09/23	19/10/23	3		309				
310 Tape & joint/skim walls	22/09/23	26/10/23	3		310				
311 Mist coat +1	13/10/23	02/11/23	3						
312 Collabotorium stair	06/11/23	17/11/23			312				
313 Carpentry - doorsets, skirtings, etc.	29/09/23	02/11/23	▋▋						
314 Suspended ceiling grid & service tiles	20/10/23	26/10/23							
315 2nd fix MEP	08/09/23	09/11/22				┼┼┢╱╣┼┼┼┼┇┼┼┼┼┼╢			
316 Kitchen	20/10/23	16/11/22							
217 Deparations	20/10/23	16/44/00		┼┼┼┼┼┼┼┼┼╎╱╱┼┼┼┼┼┼┼┼┼┼╢┼┼╢┼┼╢		┼┼┝╱╱╗┼┼┼┼╏			
240 Accusto rafte to cominer room	20/10/23	10/11/23							
310 Adoustic raits to seminar room	21/10/23	02/11/23							
	06/11/23	24/11/23	34↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓						
320 1st fix IPS & Vanity units to WCs	29/09/23	02/10/23	3						
321 Vinyl flooring to WCs	13/10/23	16/10/23	3		321				
322 2nd fix ISP & Vanity units to WCs	17/10/23	18/10/23	3 1		322				
323 WC cubicles	19/10/23	20/10/23	3		223				
324 Sanitaryware	23/10/23	24/10/23	3		324				
325 Wall tiling to WCs	25/10/23	26/10/23	3		325				
326 FF&E	13/11/23	01/12/23	3		326				
327 AV fit out	13/11/23	01/12/23	3		327				
328 Builders clean & snag	27/11/23	08/12/23	3 / 1		328				
329 Ground Floor	25/05/23	07/12/23	3	323		■			
330 Spread of flame retardant	25/05/23	08/06/23	3 / 1	33					
331 Head tracks	02/06/23	22/06/23	3						
332 High level MEP	09/06/23	13/07/23	3						
333 Test & lag	23/06/23	20/07/23	3						
334 Plasterboard ceilings	14/07/23	03/08/23	3		334				
335 Skim ceilings	21/07/23	10/08/23	3						
336 Timber slatted ceiling to Group Offices	07/07/23	03/08/23			38				
337 Floor screed to Entrance/Reception, WCs & Stairs	04/08/23	10/08/23							
338 Dust sealer to slab	21/07/23	14/08/23							
339 Mark nedestal positions	25/07/23	16/08/23							
340 MEP below raised access floor	03/08/22	31/08/22		╶┼┼┼┼┼┼┼┼┼╎╱┥┼┼┼┼┼┼┼┼┼╫┼┼╫┼┼╏┤┨┼┼					
341 Raised acress floor	17/08/22	07/00/23				┼┼╏╱╱┥┼┼┼┼┋┼┼┼┼┼┼╫			
342 1st fix stud partitions & hoard one side	24/08/22	21/00/22		╶┼┼┼┼┼┼┼┼┼╎╱┥┼┼┼┼┼┼┼┼┼┼╫┼┼╫┼┼╫┼┼╢					
3/2 MED within walle	08/00/23	05/10/00		┼┼┼┼┼┼┼┼┼┼╱╱┼┼┼┼┼┼┼┼┼╢┼┼╢┼┼╢┼┼╢┼╢	┼┼┼┼┟┼┼╢╴╎╴╬╗╗┓═╗┥┥╸┥┝╎┥┝╎╴┼╴┼	┼┼╏╱╱┧┼┼┼┼┋┼┼┼┼┼┼╢			
244 Complete wall bearding (incl. external walls)	22/00/02	10/10/23		┼┼┼┼┼┼┼┼┼╎╱╱┼┼┼┼┼┼┼┼┼┼┼╫┼┼╫┼┼╫┼┼╫		┼┼┝╱╱┤┼┼┼┼┋┼┼┼┼┼┼╢			
245 Tape & isint/a/im walls	22/09/23	19/10/23		┼┼┼┼┼┼┼┼┼┼╱╱┼┼┼┼┼┼┼┼┼╎╢┼┼╢┼┼╢┼┼╢					
340 Tape & joint/skim Walls	22/09/23	26/10/23	3_}		26	+++ [2] +++++ []			
340 MISL CORT +1	13/10/23	02/11/23			345	┼┼┝╱╱╕┼┼┼┼┇┼┼┼┼┼┤╢			
347 Install glazed partition framing (& measure glazing)	01/09/23	07/09/23				+++ F(Z) +++++ \$++++++			
348 Utt-site glazing prep	08/09/23	28/09/23	▋▋┼┼┼┟┝╎╴						
349 Install glazing	29/09/23	05/10/23							
			-19-18-17-16-15-14-13-12-11-10-9-8-7-6-5-4-3-2-1-1	2   3   4   5   6   7   8   9   10   11   12   13   14   5   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34   35   36   37   38   39   40   41   42   4   40   3   17   18   14   18   18   19   18   10   19   10   18   19   16   19   18   19   18   17   18   15   15	3 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 6	36 <sup>1</sup> 67 <sup>1</sup> 68 <sup>1</sup> 69 <sup>1</sup> 70 <sup>1</sup> 71 <sup>1</sup> 72 <sup>1</sup> 73 <sup>1</sup> 74 <sup>1</sup> 75 <sup>1</sup> 76 <sup>1</sup> 77 <sup>1</sup> 78 <sup>1</sup> 79 <sup>1</sup> 80 <sup>1</sup> 81 <sup>1</sup> 82 <sup>1</sup> 8			
Line Name	Start	Finish	A May June July August Se	tember October November December January February March April May June	July August September October November	December January February March			
			2022		023	2024			
	-	·	LULL			LVL			
				To a do a Dao ano avera	Ref: EA-22-032-TP02	Revision: B			
	mair	ıg		i ender Programme					
			-		Date: 25 July 2022	Drawn by: PA			
GRL Constru	uctio	n L	_td	Alt 2 - Optimum Programme - sprinklers added	CIEA: 1 200m <sup>2</sup>	Dame: 7 (10			
					GIFA: 4,200m*	Page: / of 10			

	Т		l I					2022													2023									2024		
			AL I	Mav	June	July	Augu	ist i S	eptember	October	Nove	ember i D	)ecember	Januarv	Febru	arv i N	Narch I	April	Mav	June	JU	V I AL	aust i S	September	Octobe	er <sub>i</sub> Novei	ember i De	cember	January	February	ı Mar	h ı/
ine Name	Start	Finish	2	16. 3	J 13 127	/	25 8	22 5	19	3 17	31.	14 28	12 26	19 12	3 6	20 6	20 3	17	1.15	29 12	26 10	24 7	21. 4	18	2 16	6. <b>1</b> 30. <b>1</b> 13	3. 127. 1	11 25	8 22	5 19	4	8. 1
			19-18-1	/ 16 15 1	4-13-12-11-1/	0-9-8-7	-6 -5 -4 -3	-2 -1 1	2 3 4	5 6 7 8	8 9 10	11 12 13 14	4 15 16 17	18 19 20 2	1 22 23 24	1 25 26 27	28 29 30 3'	1 32 33 34	35 36 37 38	39 40 41 42	43 44 45	6 47 48 49	50 51 52 5	3 54 55 56	57 58 59	60 61 62 63	3 64 65 66	67 68 69 70	71 72 73 74	75 76 77	78 79 80	1 82 8
50 Carpentry - doorsets, skirtings, etc.	29/09/23	09/11/23			1									411						1				350								
51 Suspended ceiling grid & service tiles	27/10/23	09/11/23												2						1						351						
52 2nd fix MEP	08/09/23	16/11/23			1														1	•			35	2								
53 Decorations	27/10/23	23/11/23				$\square$																				353	<u> - I</u>					1
54 Acoustic rafts to offices	03/11/23	23/11/23			1	$\square$								111					1							354						
55 Floor finishes	10/11/23	30/11/23				$\square$							11/2	2												355						
56 1st fix IPS & Vanity units to WCs	29/09/23	02/10/23				$\square$								4					1					356								
57 Vinyl flooring to WCs	13/10/23	16/10/23				$\square$																			357							
58 2nd fix ISP & Vanity units to WCs	17/10/23	18/10/23																	1						358							
59 WC cubicles	19/10/23	20/10/23											11/2							1					359							
60 Sanitaryware	23/10/23	24/10/23																	1						360							
61 Wall tiling to WCs	25/10/23	26/10/23																		1					38	6						
62 FF&E	03/11/23	30/11/23																	1							362						
63 AV fit out	10/11/23	07/12/23																		1						363						
64 Builders clean & snag	24/11/23	07/12/23																	1	1							364					
65 First Floor	09/06/23	08/01/24				$\square \square$								20						365							++++		1			
66 Spread of flame retardant	09/06/23	22/06/23			1	$\square \square$								11						366												
67 Head tracks	16/06/23	06/07/23																		367												1
68 High level MEP	23/06/23	27/07/23																		368												T
69 Test & lag	07/07/23	03/08/23											ТЙ	211							369											T
70 Plasterboard ceilings	28/07/23	17/08/23																		•		370										T
71 Skim ceilings	04/08/23	24/08/23											1 2	211					1	1		371										T
72 Timber slatted ceiling to Group Offices	21/07/23	17/08/23																		1	3	2										T
73 Floor screed to stairs	18/08/23	24/08/23											1 2	211						1			73									T
74 Dust sealer to slab	04/08/23	29/08/23																		1		374	1									T
75 Dry screed board	08/08/23	31/08/23																				375					++++					Ť
76 Mark pedestal positions	10/08/23	04/09/23																				376	11				++++					T <b>i</b>
77 MEP below raised access floor	21/08/23	18/09/23												211									877				++++					Ť
78 Raised access floor	05/09/23	25/09/23											$\pm 6$										378				++++					T <b>İ</b>
79 1st fix stud partitions & board one side	12/09/23	09/10/23												211				1 -						379			++++	- 11				Ť
80 MEP within walls	26/09/23	23/10/23				++++		11					+ 12											380	*		++++					
81 Complete wall boarding (incl. external walls)	10/10/23	06/11/23				++++																			381		++++	- 1/				Ť
82 Tape & joint/skim walls	10/10/23	13/11/23											+ 0							1					382		++++					
83 Mist coat +1	31/10/23	20/11/23																		<u>;</u>						383						Ť
84 Install glazed partition framing (& measure glazing)	19/09/23	25/09/23											+ 2							1				384			1+++					
85 Off-site glazing prep	26/09/23	16/10/23												211										385								Ť
86 Install glazing	17/10/23	23/10/23																							386		-					
87 Carpentry - doorsets, skirtings, etc.	17/10/23	27/11/23																							387	1 ♦		11/1				Ť
88 Suspended ceiling grid & service tiles	14/11/23	27/11/23																							ΗF	388	-					
89 2nd fix MEP	26/09/23	04/12/23				++++					+++			$^{++}$										389				11/1				Τİ
90 Decorations	14/11/23	11/12/23		$\square$		++++						+++	+ 1		+++									tΓ	Î	390					+++	Τ <b>i</b>
91 Acoustic rafts to offices	21/11/23	11/12/23		+ +		++++						+++			+++					;						3	391				+++	+
92 Floor finishes	28/11/23	18/12/23		$\square$		++++						+++	+ 1		+++												392				+++	Τ <b>i</b>
93 1st fix IPS & Vanity units to WCs	17/10/23	18/10/23		$\square$		++++						+++	+		+++										393		177	11/1			+++	+
94 Vinvl flooring to WCs	31/10/23	01/11/23																		1					-	394	++++					
95 2nd fix ISP & Vanity units to WCs	02/11/23	03/11/23		$\square$	1	$\square$							ΗЙ	211												395						Τť
96 WC cubicles	06/11/23	07/11/23		+++		+++						+++	+ 8		+++	+++							+++			396						+N
97 Sanitaryware	08/11/23	09/11/23		+++	<u>}</u> +++	+++						+++	+	$^{++}$		+++				<u>;        </u>						397						+
98 Wall tiling to WCs	10/11/23	13/11/23		$\square$		+ + +						+++	+ 8					11								398						†#
99 Install lift no. 1	26/09/23	23/10/23		$\square$	<u>}</u> +++	++++						+++	+							;				399		111						+
00 Install lift no. 2	24/10/23	20/11/23		$\square$		++++							ΗM												40	10						+
			10 10 1		404044				0.0.	C 0 7	0 40	44 40 40 4	1 45 40 47	40 40 00 0	1 00 00 01	00 00 07	00 00 00 0	(00 00 0	00 07 00	20 40 44 42	10 11 15	0 47 40 40	0 54 50 5	0 54 55 50	C7 C0 C0	00 04 00 00	0 04 05 00	07 00 00 70	74 70 70 7	70 70 77	70 70 00	
			-19-18-1	-10-15-1	+13-12-11-1	J-9'-8'-7'	-0'-5'-4'-3	00'-2'-1'1	2 3 4	5 6 7 8	5 9 10	11'12'13'14	4'15'16'17	18'19'20'2	1 22 23 24	25 26 27	28 29 30 3	1'32'33'34	35 36 37 38	39'40'41'42'	43'44'45'	10'4/'48'49	00'51'52'5	13'54'55'56	0'5/'58'59	00'01'02'63	5'04'05'06	b/ '68'69'/0	11'12'13'74	15 /6 //	18,18,80,8	1'82'8
ine Name	Start	Finish	12	<u>116 130</u>	<u>'13</u> '27		25 '8	122 5	'19	3 17	31	14 28	12 26	'9 '2	3 <sup>1</sup> 6	20 6	'ZU '3	17	'1 <b>'1</b> 5	29 12	26 10	24 7	'21 '4	18 · 18	12 16	) '30 '13	5 '2/ '	11 25	8 <sup>1</sup> 22	'5 '19	4 4	<u>ه ا</u>
			A.	лdу	June	July	Augu	15L 'S	epterriber	Uctober	NOVE	ember ' D	recember	January	. Febla	ary 'N	nafch '	April	мау	June	. JU	y AL	yusi 't	september	UCIOD	ei Novel	ander ' De	cemper '	January	repruary	Marc	d 's
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Thornton Bu	ildir	ng							<b>T</b> (	end	er	Pro	gra	mn	ıe							L		302-1	. 52		$\rightarrow$			_		
		-										-	<b>.</b>								D	ate: 2	5 July	2022	2			Drawr	n by: F	PA		
GRI Constru	ictio	n I	td						Δι	t 2 -	On	otimi	ım F	Prod	ram	me -	- snr	inkl	ers a	habb	-						$\rightarrow$		-			
											Οþ	annu		' Ug	ann		Shi		515 0	aucu	G	IFA: 4	200m	1²				Page:	8	3 of 10	)	

П	-	-1		2022	0000		2024						
				A. May June July August S	2023 amhar Detabar Nauamhar Desambar Januaru Esbruanu March Anzil May Una Una Ulu August Sani	tambar , October , Navambar , D	2024						
Line	Name	Start	Finish	A way June July August J	enider Occuder Novenider Decenider January Fedidary March April May June Juny August Sept		11 .05 .9 .02 .5 .10 .4 .19 .1						
					13,  3,  17,  31,  14,  20,  12,  20,  3,  23,  0,  20,  0,  20,  3,  17,  1,  1,  13,  23,  12,  20,  10,  24,  7,  21,  4,   ), 2, 4, 5, 5, 7, 9, 0, 40, 41, 42, 42, 44, 45, 46, 47, 49, 40, 20, 22, 04, 56, 97, 20, 20, 20, 20, 40, 44, 42, 42, 44, 46, 46, 47, 49, 40, 50, 54, 52, 52, 53, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54		11 23 0 22 3 19 4 10 1 67 60 60 70 71 72 72 74 75 76 77 70 70 00 91 92 92						
401	FF%F	01/11/00	10/10/00	-13-10-17-10-13-14-13-12-11-10-3-0-7-0-3-4-3-2-1			0/ 00 09/0/11/2/15/14/15/10/11/10/19/00/01/02/05						
401	Front AV/fit out	21/11/23	10/12/23										
402	Av III dui	20/11/23	00/01/24				<u>+77</u>						
403	Duilders clean & shag	12/12/23	45/00/22		╶╴╴╴╴╴ <mark>╢</mark> ╴╴╫╴╴ <del>╎╷╸╴╴╴╹╴╸</del>								
404	Stairweil 1 - fire escape stair	21/07/23	15/09/23			<b>-</b>							
400	Let fx MED	21/07/23	01/09/22										
400	ISUIX MEP	20/07/23	01/00/23										
407	Solid Walls & Cellings/Solids	02/00/23	04/00/23										
408	Skim waiis & ceilings/sollits	07/08/23	00/00/23										
409	MISL COAL + 1	09/08/23	10/08/23										
410		11/08/23	17/08/23	- ╉ Ц ↓ ↓ -									
411	Carpentry	18/08/23	22/08/23										
412	Decorations	23/08/23	25/08/23										
413	Remove scatfold	29/08/23	30/08/23										
414	Access ladder to roof	31/08/23	31/08/23										
415	Flooring	01/09/23	05/09/23										
416	Curing	06/09/23	07/09/23	┝╫┼┼┼╢╎┼┼┼┼┼┼┇┼┼║┇		┼┼┼╢┼║┼┼╟							
417	Handrails/Balustrades	08/09/23	12/09/23	┝╢┼┼┼┦┼┼┼┼┼┼┋┼┼╏┇		<u>_</u> <b>_</b> _							
418	Builders clean & snag	13/09/23	15/09/23	<u>└╢╷╷╷╷╢╷╷╷╷╷╷╷╷╷┇╷╷╢┇</u>		┫┃   ┃							
419	Stairwell 2	18/09/23	09/11/23										
420	Erect scaffold	18/09/23	20/09/23			۰ <b>ـــــ</b>							
421	1st fix MEP	21/09/23	27/09/23			-21 <b></b>							
422	Board walls & ceilings/soffits	28/09/23	02/10/23			42							
423	Skim walls & ceilings/soffits	03/10/23	04/10/23			43							
424	Mist coat +1	05/10/23	06/10/23			424							
425	2nd fix MEP	09/10/23	13/10/23			425							
426	Carpentry	16/10/23	18/10/23			426							
427	Decorations	19/10/23	23/10/23			47							
428	Remove scaffold	24/10/23	25/10/23			428							
429	Flooring	26/10/23	30/10/23			43							
430	Curing	31/10/23	01/11/23			430							
431	Handrails/Balustrades	02/11/23	06/11/23			431							
432	Builders clean & snag	07/11/23	09/11/23			432							
433	Stair 3 - Collabotorium	10/11/23	11/01/24			433							
434	Erect scaffold	10/11/23	14/11/23			434							
435	1st fix MEP	15/11/23	21/11/23			435							
436	Timber wall cladding	22/11/23	28/11/23			436							
437	2nd fix MEP	29/11/23	05/12/23			437							
438	Carpentry	06/12/23	08/12/23			438							
439	Decorations	11/12/23	13/12/23			439							
440	Remove scaffold	14/12/23	15/12/23										
441	Flooring	18/12/23	20/12/23										
442	Handrails/Balustrades	21/12/23	08/01/24										
443	Builders clean & snag	09/01/24	11/01/24				++ <b>i</b>						
444	Testing & Commissioning	07/07/23	09/02/24										
445	Power available	19/09/23	19/09/23			5							
446	Ready for air test	13/11/23	13/11/23			46							
447	Pre-commissioning/Integrity testing	24/10/23	04/12/23			47							
448	Final test & commission	18/12/23	09/02/24				48						
449	Familiarisation visits	07/07/23	24/11/23										
450	Training	18/01/24	24/01/24										
451	Final ceiling tiles	25/01/24	29/01/24				451						
$\square$				19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1	2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 5	4 55 56 57 58 59 60 61 62 63 64 65 66	67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83						
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	Thornton Bu	Ildir	۱g		Iender Programme								
			-		Date: 25 July 2	.022	Drawn by: PA						
	GRI Constru	ictic	on I	td	Alt 2 - Optimum Programme - sprinklers added								
					GIFA: 4,200m <sup>2</sup>	GIFA: 4,200m <sup>2</sup> Page: 9 of 10							

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						hune	l.d.	20	22 Contomb		Neuranhau	December	lanuari.	Fahrum	Marak	And	Mari	i hare	1023	August	Cantanak		han Mari				2024	Maral
Line	Name	Start	Finish	A I	lay	June	JUIY	August	Septembe	er Uctober	November	December	January	February	March	Apri	May	June	July	August	Septemb	er Ucio	Der NOV	emper De	ecember 1	anuary	February	March
				2	16, 30,	13 27	11, 125,	8 22	19 <u>19</u>	3 <u>1</u> 1	<u>31, 14, </u>	28, 12, 2	6, 19, 123	6 20	6 20	3 1/	1 15	29, 12, 2	6 <u>10</u> 24	<u> </u> / <u> </u> 21.	4 18	2 1	6 30 1	13 2/	11, 125, 18	22.	<u>)  19</u>	4 18
				-19-18-17	16-15-14	-13-12-11-10	-9 -8 -7 -6	-5-4-3-2	-11123	415161/18	<u>3 9 10 11 12</u>	131415161	/18 <mark>19</mark> 2021	22 23 24 25	26 27 28 29 3	30 31 32 33	34 35 36 37	38 39 40 41 42 4	3 <mark>44 45 46 47 4</mark>	8 49 50 51	52 53 54 55	56 5/ 58 5	9 60 61 62 6	03 64 65 66	67 68 69 70	1 /2 /3 /4	15 16 11 1	8 /9 80 81
452	Sparkle clean	30/01/24	05/02/24		ĭ						'		<b>/</b>										_			452	<u> </u>	
453	Client snagging regime (progressive - floor by floor)	23/10/23	08/02/24		1								2								1	4	53		- 77		4	
454	External Works	15/03/23	09/02/24												454												1	
455	Sprinkler tank	15/03/23	13/04/23												455													
456	HV electrical connection to transformer room	11/09/23	15/09/23																		456							
457	Time Risk Allowance (TRA)	18/09/23	19/09/23		ļ																457							
458	LV electrical connection to switch room	11/09/23	15/09/23		ł													•			458							
459	Time Risk Allowance (TRA)	18/09/23	19/09/23	1																	459							
460	Water connection to tank room	23/10/23	27/10/23		1								2									4	60					
461	Time Risk Allowance (TRA)	30/10/23	31/10/23								+++++												461					
462	Data connection to COMMS Room	06/10/23	12/10/23																			462						
163		13/10/23	16/10/23								+++++											451	++++					
403	Filled Allowance (TRA)	11/10/23	20/10/23		- 1								$\rightarrow$						+++++								+++	
404	FW drainage - connection to existing system (MHs 14-11)	11/09/23	22/09/23																		101						+++	
405	r vv urainage - norm elevation (MHs 10, 4-1)	25/09/23	100/10/23								++++		$\times$						++++	+++	465		++++	-+++-'	$   \mathcal{U}$	+++	+++	+++-
466	+ vv drainage - west elevation (MHs 8 & 9)	09/10/23	13/10/23								++++-'		<i>(</i> /						++++	+++		466			$\square M$	+++		+++
467	FW drainage - south elevation (MHs 15 & 7)	16/10/23	20/10/23																++++	$\square$		467					+	+++
468	SW drainage - connection to existing system (MHs ex 7 & 8-6)	25/09/23	06/10/23																	$\square$	468						411	$\downarrow \downarrow \downarrow$
469	SW drainage - north elevation (MHs 6-4, 12-3 & 1-2)	09/10/23	20/10/23																		1	469						
470	SW drainage west elevation (MHs 13-15)	23/10/23	27/10/23																		1	4	70					
471	SW drainage - south elevation (MHs 16-17)	30/10/23	03/11/23																				471					
472	Light columns & bollards	23/10/23	17/11/23																			4	72					
473	Timber decking (incl. fnds & structure)	09/10/23	20/10/23		Ú			1			++++++											473						
474	Construct cycle shelter	23/10/23	24/11/23								++++++		//   -								<b>i</b>	4	74					
475	Paving - north elevation	06/11/23	08/12/23								+++++					-1-1							475					+++-
476	Poinforced groce porth elevation	11/12/22	15/12/22		- 1						++++																+++	+++-
470		11/12/23	45/40/00										4+						+++++					1/0			+++	
4//	Resin bound gravei - north elevation	11/12/23	15/12/23		- 1						+++++-'		$\rightarrow$											4//			+++	
478	Paving - east elevation	11/12/23	22/12/23								'										!			478				
479	Paving - south elevation	06/11/23	17/11/23		1								24										479	4				
480	Resin bound gravel - south elevation	20/11/23	24/11/23		1						'													480				
481	Paving - west elevation	20/11/23	01/12/23		1											1							4	481				
482	Street furniture	18/12/23	26/01/24																						482			
483	Landscaping/Planting	23/10/23	15/12/23										//								1	4	83					
484	Time Risk Allowance (TRA)	29/01/24	02/02/24																							484 🔨		
485	Clear site	05/02/24	09/02/24		ļ								1			N I										485		
					ł						++++++																	
486	Planned Completion Date	09/02/24	09/02/24		Ĭ						+++++														11/1	4	J6	
487	Terminal Float	09/02/24	09/02/24								+++++															4		
188	Completion date	00/02/24	00/02/24		Ľ																						1	
400	Completion date	03/02/24	03/02/24		- 1						++++-'																<b>T</b>	
400		40/00/04	40/00/05									/ / /	2+														┶┷┷	
489	Attercare	12/02/24	10/02/25								'		/////															
490	rraining (to be agreed if required)	12/02/24	07/05/24	$\square$							++++		1 + + + + + + + + + + + + + + + + + + +						++++	+++	$\square$		+++			+++		
491	Sont Landings support meetings	16/02/24	03/02/25								++++		$\times$						++++	$\square$			+++			+++	491 H	~
492	Seasonal commissioning (& adjustments to settings if required)	29/04/24	31/01/25								++++		14     -						++++	$\square$	+   +		+++				444	+++
493	Post Occupancy Evaluation (POE)/Building Performance Evaluation (BPE)	10/05/24	06/02/25		Ľ																						444	
494	End of Defects Liability/Rectification Period	10/02/25	10/02/25																								411	$\downarrow \downarrow \downarrow$
495	Time Risk Allowance (TRA)	07/11/22	02/02/24								495																	
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