SPECIAL EXHIBITION GALLERY

OUTLINE CONSTRUCTION MANAGEMENT PLAN

Science and Industry Museum, Manchester

July 2019

Revision 2

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1. INTRODUCTION

The purpose of this document is to give a broad overview of the construction proposals in respect of the proposed development of the Science and Industry Museum Special Exhibitions Gallery development. Further detailed information will be provided within the Principal Contractor's Construction Management Plan, when the Principal Contractor is appointed.

The development has obtained Planning Permission and Listed Building Consent in May 2019; reference numbers 122772/FO/2019 and 122773/LO/2019, respectively. This Construction Management Plan has been prepared to address the requirement set out within Condition 4 of the Planning Permission. The wording of the planning condition is as follows:

"*No development shall take place until a Construction Management Plan (CMP) has been submitted to and approved in writing by the City Council as Local Planning Authority. The CMP shall provide for*

- *The Parking of vehicles of site operatives and visitors;*
- *Loading and unloading of plant and materials;*
- *Storage of plant and materials used in constructing the development;*
- *Construction and demolition methods to be used;*
- *The erection and maintenance of security hoardings;*
- *Measures to control the emission of dust and dirt during construction and;*
- *A scheme for recycling/disposing of waste resulting from demolition and construction works.*

Reason - To ensure that the development is carried out in accordance with the approved plans, pursuant to Core Strategy policies DM1 and SP1."

2. PROJECT TEAM MEMBERS

Client	-	Science and Industry Museum, Manchester
Architect / Lead Consultant	-	Carmody Groarke
Principal Designer	-	Carmody Groarke
Project Manager	-	Gardiner & Theobald
Quantity Surveyor	-	Appleyard & Trew
Mechanical & Electrical Engineer	-	Skelly & Couch
Structural Engineers	-	Pryce & Myers
Planning Consultant	-	Deloitte
Transport Consultant	-	Curtins
Fire Engineer	-	Design Fire Consultants

3. SITE DETAILS

The proposed Special Exhibitions Gallery is located at the Science and Industry Museum, which is located in the west of the centre of Manchester between Castlefield, to the south, and St. Johns Quarter, to the north.



Aerial photograph of Manchester City Centre.

The location of the Science and Industry Museum relative to Manchester City Centre is indicated in the image above.

4. PROJECT DETAILS

4.1 Existing

The proposed gallery sits within the New Warehouse building (previously the Great Western Warehouse) within the museum's existing site on Liverpool Road in central Manchester. The Science and Industry museum is located within a significant heritage site with a number of Grade I and Grade II listed buildings and structures.

The new exhibition gallery will be located in the basement of the Grade II listed New Warehouse building, accessible from lower yard level via the Water Street site entrance. The space is connected to the upper level of the New Warehouse by two existing stairwells and a passenger lift. The basement area was previously used as a secure space for museum collection storage, conservation, repair and preparation work. Objects within the space will be decanted to an alternative storage facility prior to commencement of gallery construction works.

Works are proposed to listed structures and contractors will be made aware of the significant importance of these structures. The Principal Contractor will be responsible for

implementing a procedure for the submission and approval of method statements and risk assessments in relation to specific work tasks. This will include protection of the listed building fabric to ensure that there is no damage to the structure, and that no modifications outside of the scope of the Listed Building Consent are undertaken. A full description of all task control procedures, and details of those responsible for managing their delivery will be outlined within the Principal Contractor's Construction Phase Plan. Protection of the listed building fabric will be included within site inductions given by the Principal Contractor to all operatives before they are allowed to work within the site.

4.2 Proposed

The Science and Industry Museum aim to create a new Special Exhibition Gallery within the basement of the New Warehouse Building.

The project will provide a new primary entrance into the building at lower yard level, improving overall site visitor permeability through the museum estate. The gallery space will be c. 720sqm for temporary exhibitions, supported by a front-of-house reception facility and retail space. The scheme includes modifications to hard landscaping including new sloped access on the external approach to improve accessibility and address level differences on the route into the new space for visitors and museum objects.

The project scope comprises a full internal strip out of the existing building services and building fabric elements, with consideration for the listed status of the original building materials. Demolition plans are included within Appendix B of this Construction Management Plan.

The structural works to the Warehouse are minimal. A new opening will be formed in the existing western wall at basement level to connect the Service Corridor to the Front of House. This opening is positioned adjacent to an existing arched opening and requires a 1.6m wide brick pier to be retained between both openings. The opening will be formed with fair faced precast concrete lintels. Holes will be core drilled through the western wall of the Warehouse and western wall of the Annex for services.

5. PROGRAMME

Outline programme dates for the Special Exhibition Gallery project are as follows;

- Building Works Procurement — July 2019 – October 2019
- Main Construction Works — November 2019 July 2020
- Exhibition Fit-Out — August 2020 – October 2020
- Gallery Opening — October 2020

The master project programme is included as Appendix C. The detailed construction programme will be further developed upon appointment of a building contractor in October 2019.

6. HOURS OF SITE OPENING/OPERATION

Monday to Friday	– 08:00 – 17:30
Saturday	– 08:00 – 14:00 (Work on Saturdays by agreement with the Museum)
Sunday	– No works proposed on Sundays
Bank Holidays	– No works proposed on Bank Holidays

Workforce may arrive on site 30 minutes prior but no working will be permitted outside of these times. Noise to be kept to a minimum in the first hour.

7. SITE ACCESS / CONSTRAINTS / LOGISTICS

Site Plans

Logistics and site constraints are to be as set out within the Carmody Groarke Constraints Drawings included within Appendix A.

Drawings included are as follows:

Existing Site Plan Project Boundary	269_X_10_00_T1
Site Logistics Plan SEG Compound	269_X_10_33_T1
Construction Site Logistics	269_X_20_30_T1

Key Notes

- All contractor personnel and vehicle access to the site is to be via the lower yard accessible via Water Street. A road closure is currently in place on Water Street in connection with the adjacent St John's / Factory development. This road closure does not impact on accessibility to the SEG site.

- The lower yard area within the museum site will be closed to the public during the proposed building works. Museum staff will be able to access parts of the lower yard during construction, however the contractor's compound located in the lower yard will remain fully segregated to prevent access for all non-construction personnel. The upper yard public realm area and upper levels of the New Warehouse building will be open to visitors during the construction works. Measures will be put in place to control the impact of noise and vibration for site visitors, as further detailed in Section 12 of this plan.

- Site welfare facilities and materials/waste storage will be contained to the contractor's compound within the lower yard as identified on the site logistics plan. The Principal Contractor will be required to develop and maintain a Traffic Management Plan and deliveries schedule; the details of which will be regularly communicated to the museum team.

- The existing ramp connecting the upper and lower yard within the museum site will be closed for the duration of the proposed building works.

- There will be no contractor parking permitted on the museum site. The Principal Contractor will be required to encourage the subcontractor workforce to avoid parking vehicles on nearby public highways and to utilise designated public car parking facilities.

8. DEMOLITION DETAILS

The demolition plans for the project are set within drawings as listed below contained within Appendix B;

Proposed Demolition Basement Plan	269_X_20_20_T1
Proposed Demolition Basement Plan 1	269_X_21_01_T1
Proposed Demolition Basement Plan 2	269_X_21_02_T1
Proposed Demolition Basement Plan 3	269_X_21_03_T1
Proposed Demolition Basement Plan 4	269_X_21_04_T1
Proposed Demolition Basement Plan 5	269_X_21_05_T1

9. WASTE MANAGEMENT PLAN

The Principal Contractor will be required to issue and maintain a waste management plan which confirms:

- How the production of waste will be mitigated
- How materials will be reused
- How materials will be recycled
- How waste will be disposed of in line with current regulations

The waste management plan will be updated as works progress to reflect the actual generation and handling of waste. Details of actual waste generation against forecast volumes will be included within monthly contractor progress reports. At the end of the project the contractor will reconcile the planned handling of waste against actual waste generation and movements, and provide an explanation of any differences.

The Principal Contractor will be required to segregate waste streams via designated skips on site, to promote efficient re-use and re-cycling of materials, and minimise construction and demolition waste diverted to landfill. It will be the responsibility of the Principal Contractor to monitor and record the generation and movement of waste, and to cascade the principles of the site waste management plan to the subcontractor workforce. This will include a clear description of waste management procedures during the site induction.

Peak waste generation is anticipated during the demolition and strip out phase of the work, programmed for November/December 2019. Due to the small size of the site, large volumes of waste generation are not anticipated throughout the construction phase.

10. TRAFFIC MANAGEMENT PLAN

At this stage, full construction methodology details for the Special Exhibitions Gallery are not known and the number of construction vehicle movements which are likely to be generated as a consequence cannot be quantified.

All vehicle routing into the site will be via Water Street, to avoid vehicular congestion as far as possible on the adjacent Liverpool Road and Lower Byrom Street. A stopping up order is currently in effect on Water Street in connection with the adjacent Factory project, which is likely to significantly reduce the volume of traffic generated by members of the public. All deliveries to the site will be made prior to 10:00am, to minimise vehicular congestion within the museum site at peak times. Banksman will be utilised to manage and direct construction vehicles off of the public highway and into the museum site toward the contractor's compound in the lower yard.

A comprehensive Traffic Management Plan will be developed upon appointment of a

Principal Contractor, in order to reduce the level of impact and nuisance on the local highway network and the surrounding area.

10.1 Traffic Management Measures

Given the temporary nature of all construction traffic it is not necessary to provide permanent infrastructure to facilitate access.

It is therefore proposed to implement specific on-site practices to control the traffic and minimise any adverse effects that may otherwise occur on the surrounding highway network which may impact on existing users and neighbouring properties.

The appointed Contractor would therefore prepare a Construction Traffic Management Plan to be approved by MCC. This will include procedures to confirm access routes, conform to relevant legislation, uphold high standards and ensure best practice.

The plan is likely to be a working document to be developed as construction plans evolve, and will be agreed with key stakeholders including the Local Highway Authority. The contents of the Plan will be agreed and adhered to throughout the construction period.

11. POLLUTION / AIR QUALITY CONTROL

Dust is likely to be created during the proposed works, and is to be managed throughout the construction phase. The Principal Contractor will need to provide adequate control measures to minimise and control dust during the internal work phases to maintain a safe working environment. Dust control on site is anticipated to be via standard measures i.e. vacuum extraction or damping down. Detailed processes for the management of dust and other air pollutants will be identified within contractor method statements for specific work elements.

External works will be confined to the lower yard area which will be closed to the public during the construction period, however access to some areas adjacent to the contractor's compound will be required for museum staff. The Principal Contractor will be responsible for management of dust arising from site and control the generation of dust when waste is transported through the construction site to waste storage/collection areas.

It will be the Principal Contractor's responsibility to supply the adequate level of dust suppression measures appropriate to the construction activity, properly reviewed by risk assessment. It will be the Principal Contractor's responsibility to manage the compliance with these measures with the sub-contracting work force, and their own. Measures for the control of dust generation related to specific work tasks will be included within risk assessments and method statements submitted to and approved by the Principal Contractor before trade subcontractors are permitted to undertake works on site.

12. NUISANCE (NOISE AND VIBRATION) MITIGATION

There are no specific planning conditions related to restriction of noise and vibration in connection with the Special Exhibition Gallery project. Nevertheless management of potential disturbance caused by noise and vibration as a result of the building works is a key performance indicator identified by the project team and a factor considered as part of the contractor selection process.

The appointed contractor will be required to:

- Manage demolition, site clearance and construction work to minimise adverse noise (and dust) impacts
- Identify local noise-sensitive properties and supply them with advance warning including a contact number for registering complaints during works
- Assess potential noise impacts and select noise control measures in accordance with British Standard BS5228 and the appropriate technical advice
- Carry out site reconnaissance and identifying noise sensitivity before finalising working methods
- Formally oblige subcontractors to take responsibility for controlling their noise
- Choose and make provision in costings for working methods and equipment that reflect the noise sensitivity of the site
- Phase demolition / construction work stages to minimise noise impacts
- Make a nominated person responsible for monitoring noise control and liaising with residents
- Inform residents in advance about particularly noisy works or any unavoidable works during antisocial hours

13. HOARDING

All construction sites are required to provide measures to manage access across defined boundaries; and exclude unauthorised people.

The proposed works generate risks that members of the public are exposed to, these include:

- Materials or tools falling outside the site boundary
- Injury related to excessive noise and dust
- Being struck by moving plant and vehicles

The Principal Contractor will therefore be required to erect hoardings/fencing in order to protect the public from the construction works, and to control access into the construction zone, the height of the hoardings will be no less than two metres.

The hoardings will not cause disruption to members of the public and where necessary will consider the needs of persons with ambulant restrictions, visual impairment or cognitive impairment. All hoarding and fencing related to the development will be located within the existing museum site. There will be no hoarding or fencing utilised on the adjacent public highways or footways.

Heras style fence panels will be utilised for site segregation in non-public facing areas including the lower yard compound. Timber hoarding with graphics will be utilised in all public facing areas of the Museum site, including the existing internal stair cores and the external vehicle ramp connecting the upper and lower yard. Hoardings in public facing areas will be utilised for branding to provide information about the project to the public, as well as contact information for key personnel within the project team. All hoarding and fencing is to be free-standing with appropriate support and kentledge. The Principal Contractor will be required to carry out regular inspections of site hoarding and fencing to ensure that the

security of the site is not compromised.

The Principal Contractor shall be responsible for maintaining the site hoarding and fencing.

14. SITE SECURITY AND SAFETY

The Principal Contractor will be required to make adequate provision for managing site access. This will include;

- Provision and maintenance of physical site boundaries; including hoarding/fencing appropriate to the existing site boundaries, location and proximity to other buildings
- Taking reasonable steps to prevent unauthorised people accessing the site (people may be authorised to access the whole site or be restricted to certain areas)
- Provide site inductions
- Supervise or accompany some authorised visitors while they are on site or visiting specific areas

The Principal Contractor shall be responsible for maintaining communication and working in conjunction with the Museum's security team throughout the construction period.

The Principal Contractor will be required to develop a site fire safety strategy outlining details of general safety procedures, muster points, temporary fire detection and site inspections. This will include specific details for the control and supervision of any hot works to be carried out within the site. The fire safety strategy will be included within the Principal Contractor's Construction Phase Health and Safety Plan.

15. DELIVERIES AND THE ONSITE STORAGE OF MATERIALS

Site deliveries and storage of construction materials will be generally as shown within the site logistics plans contained within Appendix A. These plans indicate vehicular access routes, turning circles and indicate storage areas within the allocated construction compound within the lower yard.

The contractor will be responsible for the management of the site in line with the Construction Design and Management Regulations 2015 in terms of the provision of facilities and general management of the site.

The delivery of materials will be carefully managed to ensure that they occur within the working hours stated in Section 6 of this plan. Where possible, materials deliveries will be before 10:00am when public activity on the museum site is low. The Principal Contractor will be required to develop and maintain a deliveries schedule which will be regularly reported to the museum team to promote coordination with adjacent museum activities.

To mitigate the potential for public and end user disruption the Principal Contractor will work to the adopted transport routes and maintain the flow of deliveries through these routes.

The contractor is to pre arrange deliveries and to ensure that there is sufficient resource to accommodate the arrival of deliveries on site to ensure that the delivery vehicle is received and not left waiting at the site entrance potentially blocking public circulation.

Storage of materials will be within the confines of the site and the contractor will be required

to demonstrate how the storage of onsite materials will be managed throughout the contract.

The storage and movement of materials around site must be within acceptable noise emission ranges and will not adversely affect the usage of the areas around the proposed site, by the public or the Client.

16. COMMUNITY / NEIGHBOUR ENGAGEMENT

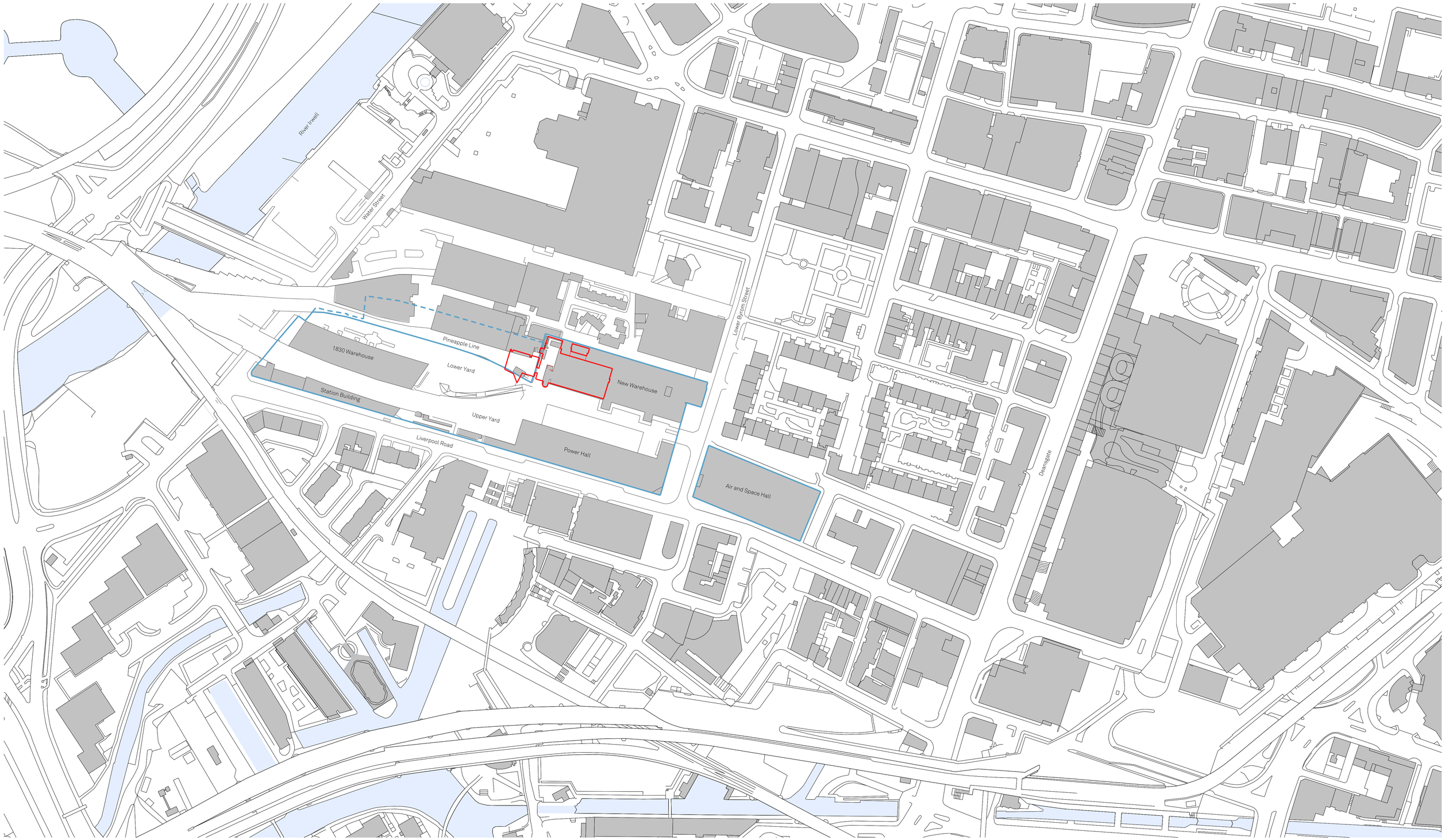
The Principal Contractor will be expected to regularly engage with the community throughout the construction period. Site contact details will be available on a project board clearly displayed near the entrance to site. The project board will be used to communicate key updates to museum visitors in relation to programme and upcoming works; in particular any planned works that are likely to bring temporary disturbance to the museum site.

The project team will maintain an on-going dialogue with the adjacent construction sites at the Factory and St Johns Quarter, to ensure that the collective operations on construction sites within the local area do not unduly impact on nearby highways, businesses, and members of the public.

The Principal Contractor will be encouraged to be registered with the Considerate Constructors Scheme.

APPENDIX A

SITE ACCESS / CONSTRAINTS / LOGISTICS



Revisions

Rev.	Description	Drawn	Check	Issued to	Date Issued
T1	Tender Issue	AC	RS	Client, DT, Contractors	18.07.2019

Notes

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Do not scale from drawings.

Errors to be reported immediately to the Architect.

To be read in conjuntion with all relevant Architects', Services and Structural Engineers' drawings.

All existing site, tree and building information has been compiled from different sources.
All dimensions to be checked on site.

Key

- Project Site Boundary
- Science and Industry Museum Site Boundary (upper level)
- Science and Industry Museum Site Boundary (lower level)

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KEY PLAN

Project	Special Exhibition Gallery			**Project No.**	**269**
Client	Science and Industry Museum				
Date	18 July 2019	**Drawn**	AC	**Issue**	**T1**
Scale / Format	1:1250@A1 / 1:2500@A3	**Checked**	AMF		
CAD Reference	P/Projects/269/CAD/sheets	**Approved**	RS		
Drawing Name	Existing site plan - project boundary	**Drawing No.**		269_X_10_00	

Other SIM construction work will be taking place during SEG construction

Refer to drawing X_20_30 for Internal Area Site Logistics

External construction zone

Covered material lay off area

Route in

Area: 1200 m²

Office - Subbie facilities / Storage

WC - Cantine/ Welfare facilities

Open material lay off area

Option of shared turning circle, outside SEG contractor's compound.

Limited access to authorised SIM personnel only.

Closing of Upper Yard ramp.

Indicative plan only.
Contractor to confirm compound set up.

Revisions

Rev.	Description	Drawn	Check	Issued to	Date Issued
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Key

- Heras fencing
- Gate
- Staff access route
- SEG contractor's compound
- Pedestrian route

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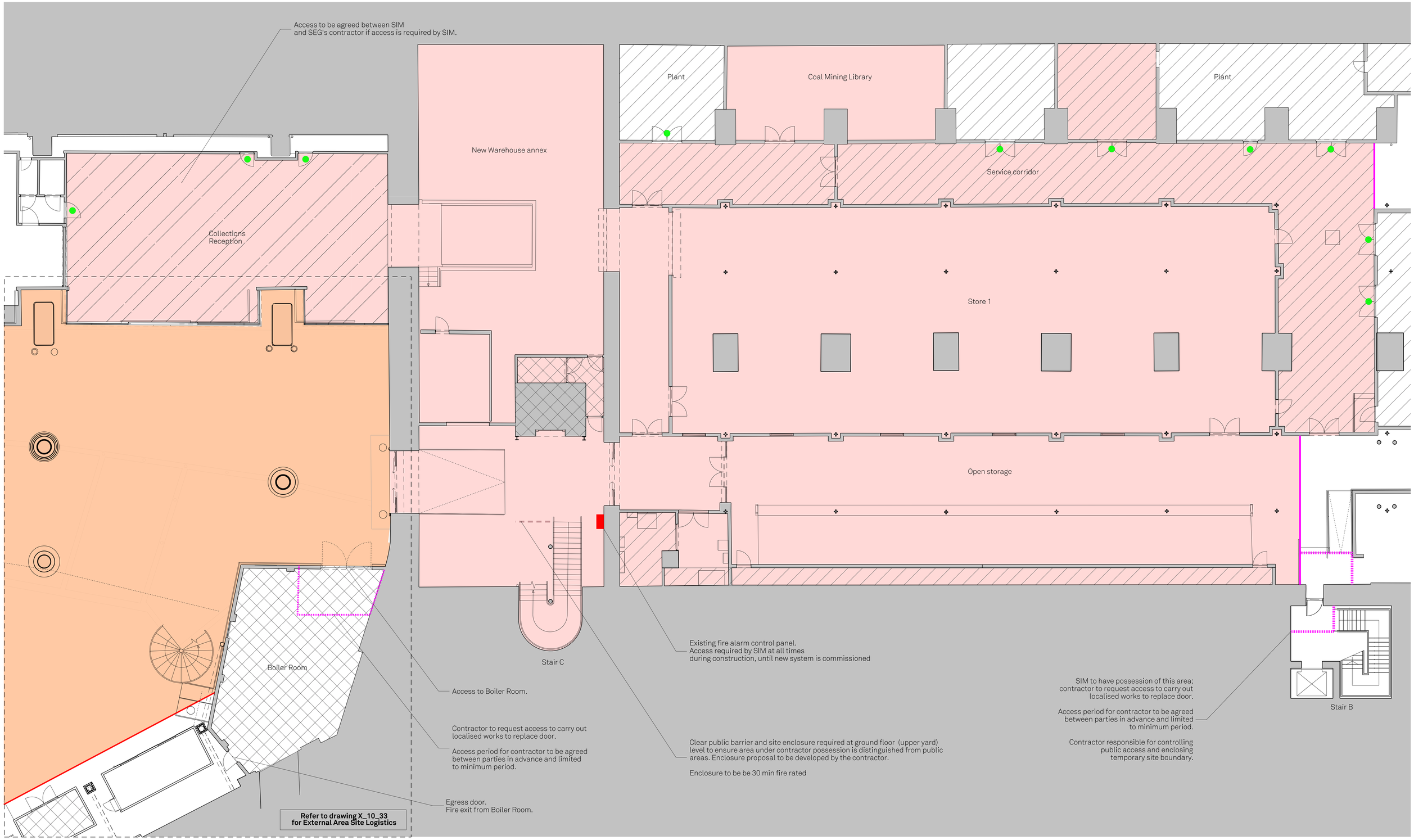
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Project	Special Exhibition Gallery		**Project No.** 269
Client	Science and Industry Museum		
Date	18 July 2019	**Drawn** AMF	**Issue**
Scale / Format	1:250 @ A1	**Checked** RS	**T1**
CAD Reference	P/Projects/269/CAD/sheets	**Approved**	
Drawing Name	Site Logistics Plan SEG Compound	**Drawing No.**	269_X_10_33



Revisions

Rev.	Description	Drawn	Check	Issued to	Date Issued
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All dimensions to be checked on site.

Key

- SEG contractor's external compound area
- SEG contractor's internal area
- SEG contractor's permanent enclosure during construction 30 min fire rated
- SEG contractor's temporary enclosure to carry out specific works 30 min fire rated
- Emergency and infrequent (monthly) access required by SIM during construction. Access to be agreed between parties when required.
- Emergency and regular (weekly) access required by SIM during construction. Access to be agreed between parties when required.
- Locked doors under SIM control.

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Scale / Format	1:100@A1/1:200@A3	**Checked**	RS		
CAD Reference	P/Projects/269/CAD/sheets	**Approved**			
Drawing Name	Existing Plan Construction Site Logistics	**Drawing No.**		269_X_20_30	

APPENDIX B

DEMOLITION DETAILS

GG 30_07 HH 30_08

II 30_09 JJ 30_10

EE 30_05 FF 30_06

New Warehouse annex

Plant

Coal Mining Library

Plant

Service corridor

Collections Reception

Store 1

Landscape area (under Pineapple Line)

Refer to drawing X_21_01

Refer to drawing X_21_02

Refer to drawing X_21_03

Refer to drawing X_21_04

Refer to drawing X_21_05

Open storage

Stair C

Stair B

External

New Warehouse Annex

New Warehouse

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Rev.	Description	Drawn	Check	Issued to	Date Issued
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For services demolition refer to services engineers drawings and specification.

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Key

Proposed demolition

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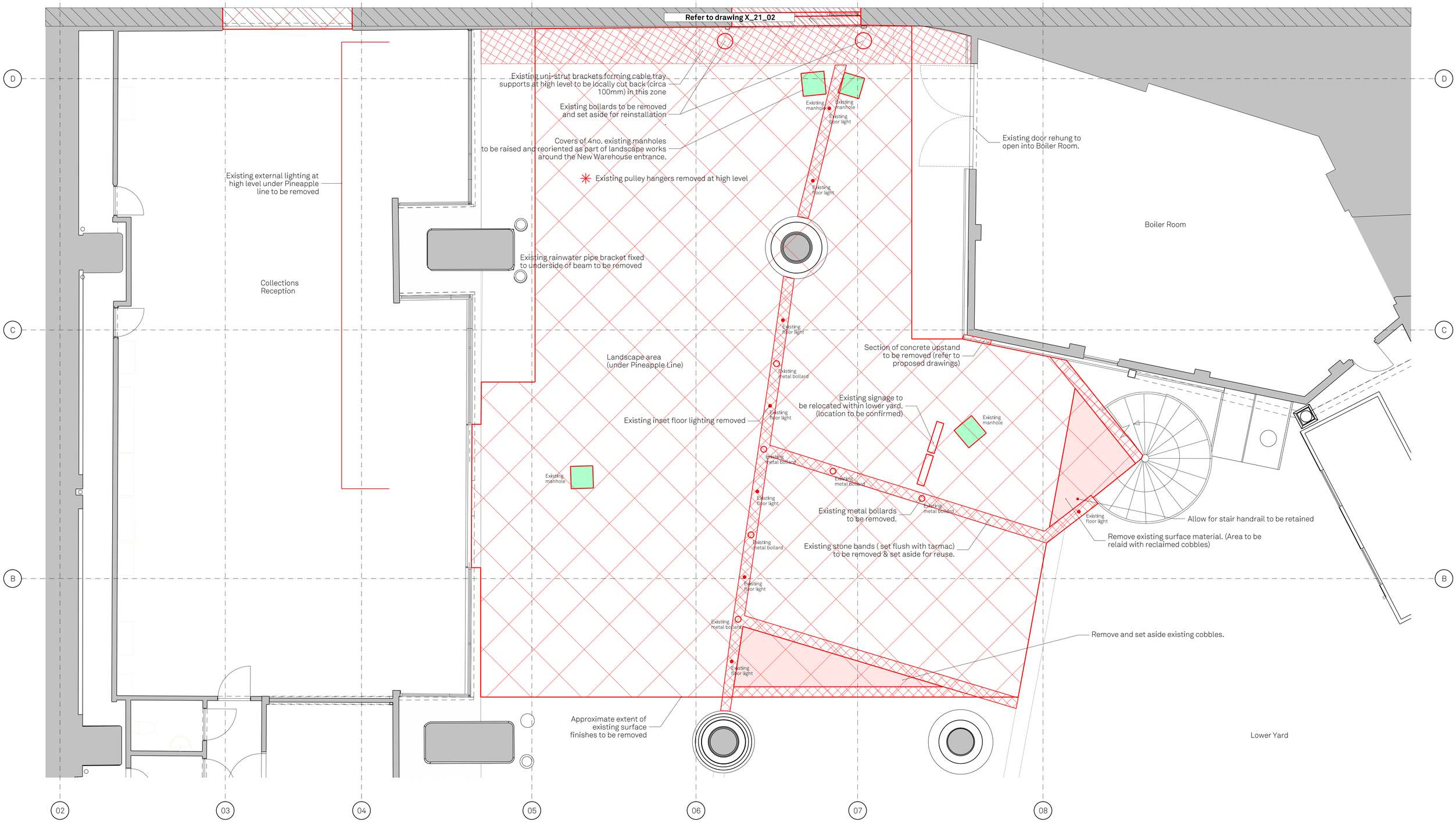
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Scale / Format	1:100@A1/1:200@A3	**Checked** AMF	
CAD Reference	P/Projects/269/CAD/sheets	**Approved**	
Drawing Name	Proposed demolition Basement Plan	**Drawing No.**	269_X_20_20



Revisions

Rev.	Description	Drawn	Check	Issued to	Date Issued
T1	Tender Issue	AC	RS	Client, DT, Contractors	18.07.2019

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Refer to M&E engineers specification and drawings for building services related demolitions

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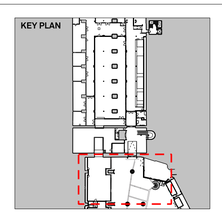
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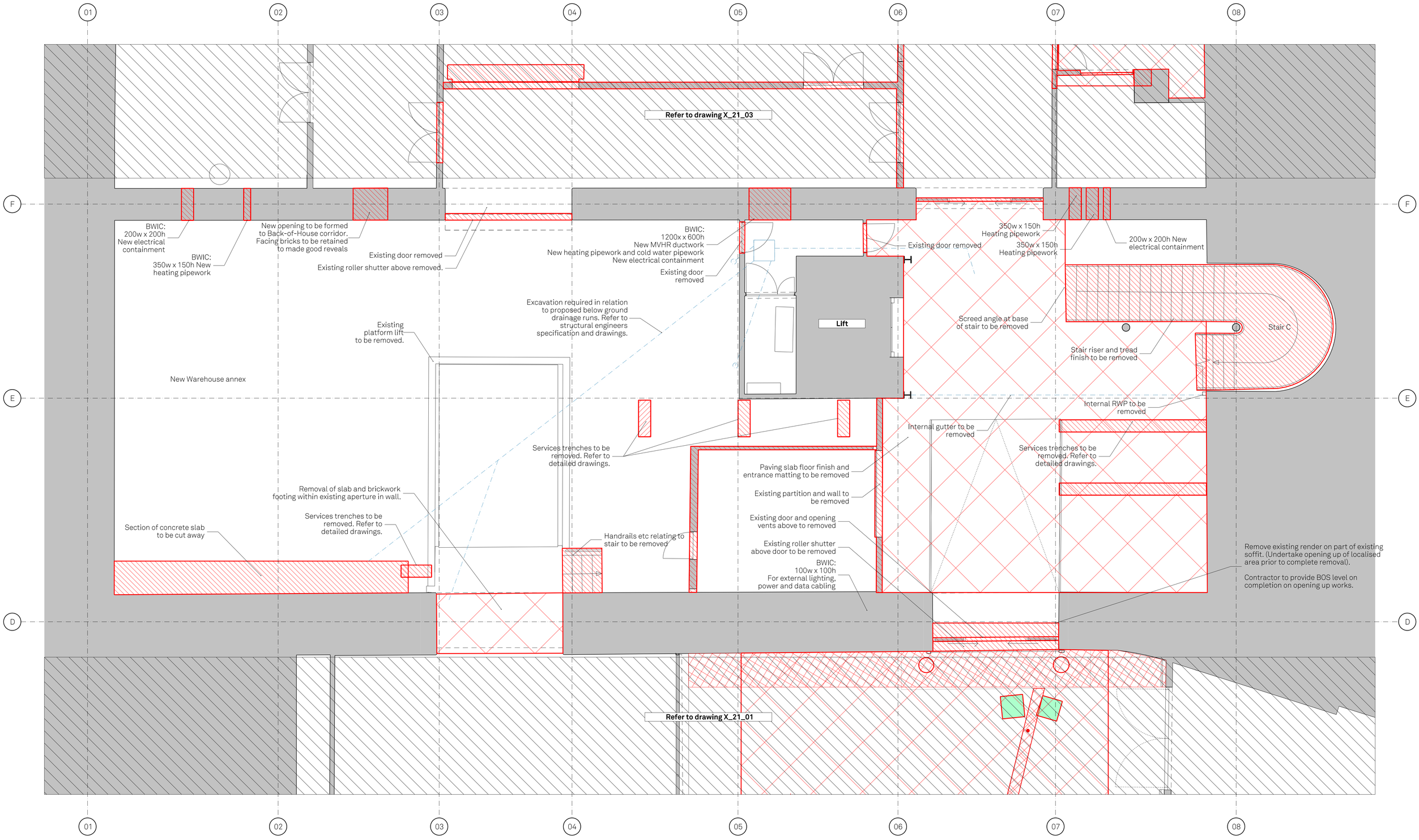
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Scale / Format	1:50@A1/1:100@A3	**Checked**	AMF		
CAD Reference	P/Projects/269/CAD/sheets	**Approved**	RS		
Drawing Name	Proposed demolition - basement plan 1	**Drawing No.**		269_X_21_01	



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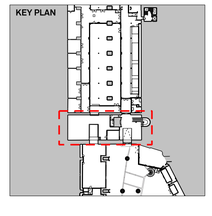
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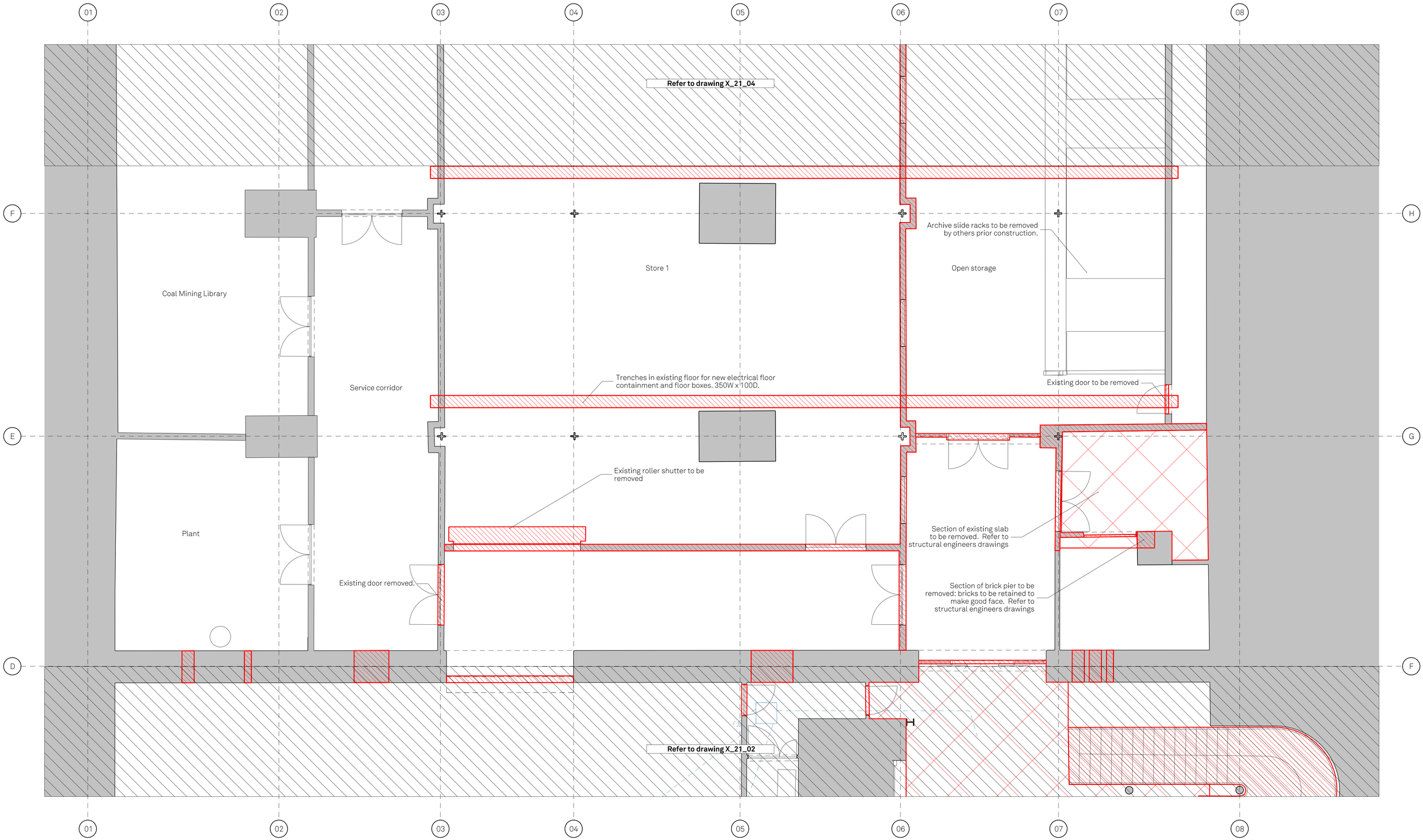
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Scale / Format	1:50@A1/1:100@A3	**Checked** AMF	
CAD Reference	P/Projects/269/CAD/sheets	**Approved** RS	
Drawing Name	Proposed demolition - basement plan 2	**Drawing No.**	269_X_21_02



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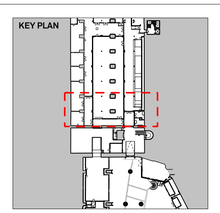
All existing site, tree and building information has been compiled from different sources.
All dimensions to be checked on site.

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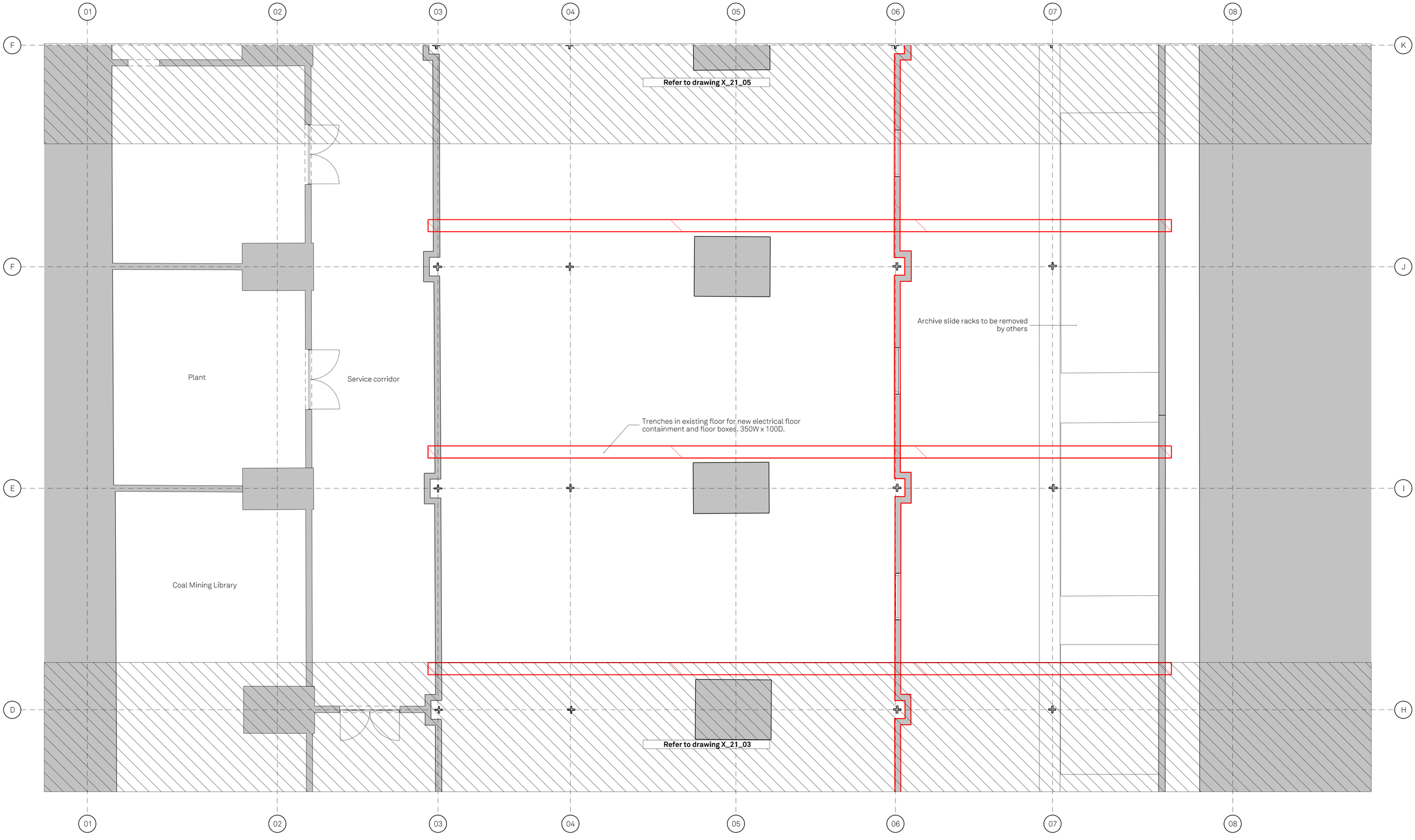
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Project	Special Exhibition Gallery			**Project No.**	**269**
Client	Science and Industry Museum				
Date	18 July 2019	**Drawn**	AC	**Issue**	**T1**
Scale / Format	1:50@A1/1:100@A3	**Checked**	AMF		
CAD Reference	P/Projects/269/CAD/sheets	**Approved**	RS		
Drawing Name	Proposed demolition - basement plan 3	**Drawing No.**		269_X_21_03	



Revisions

Rev.	Description	Drawn	Check	Issued to	Date Issued
T1	Tender Issue	AC	RS	Client, DT, Contractors	18.07.2019

Notes

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Refer to M&E engineers specification and drawings for building services related demolitions

Do not scale from drawings.

Errors to be reported immediately to the Architect.

To be read in conjuntion with all relevant Architects', Services and Structural Engineers' drawings.

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All dimensions to be checked on site.

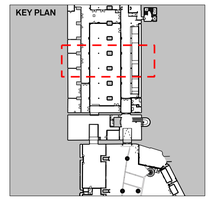
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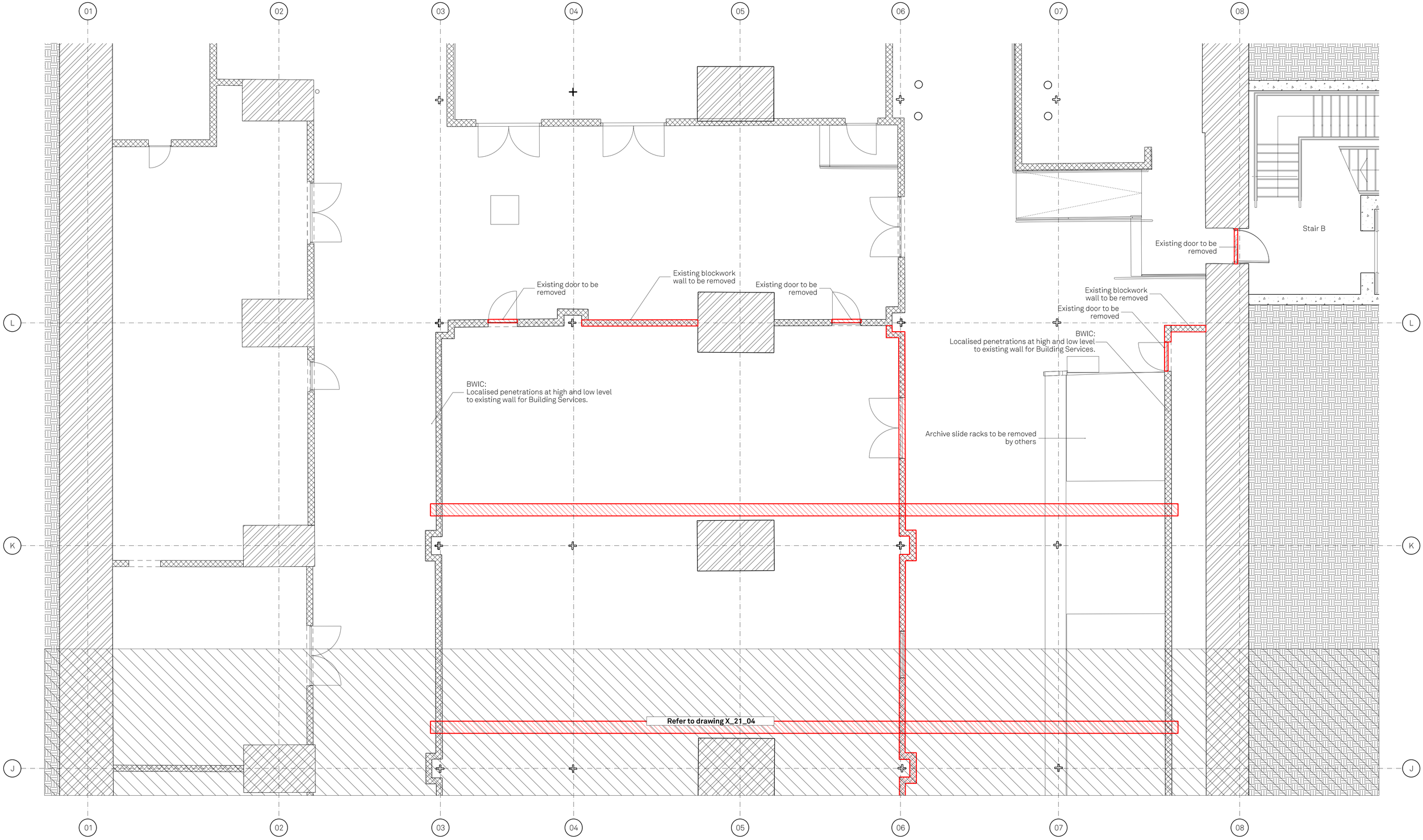
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KEY PLAN



Project	Special Exhibition Gallery		**Project No.** **269**
Client	Science and Industry Museum		
Date	18 July 2019	**Drawn** AC	**Issue** **T1**
Scale / Format	1:50@A1/1:100@A3	**Checked** AMF	
CAD Reference	P/Projects/269/CAD/sheets	**Approved** RS	
Drawing Name	Proposed demolition - basement plan 4	**Drawing No.**	269_X_21_04



Revisions

Rev.	Description	Drawn	Check	Issued to	Date Issued
T1	Tender Issue	AC	RS	Client, DT, Contractors	18.07.2019

Notes

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Refer to M&E engineers specification and drawings for building services related demolitions

Do not scale from drawings.

Errors to be reported immediately to the Architect.

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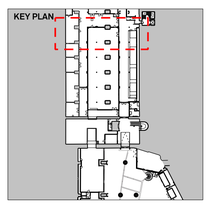
All existing site, tree and building information has been compiled from different sources.
All dimensions to be checked on site.

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Project	Special Exhibition Gallery			**Project No.**	**269**
Client	Science and Industry Museum				
Date	18 July 2019	**Drawn**	AC	**Issue**	**T1**
Scale / Format	1:50@A1/1:100@A3	**Checked**	AMF		
CAD Reference	P/Projects/269/CAD/sheets	**Approved**	RS		
Drawing Name	Proposed demolition - basement plan 5	**Drawing No.**		269_X_21_05	

APPENDIX C

PROGRAMME DETAILS

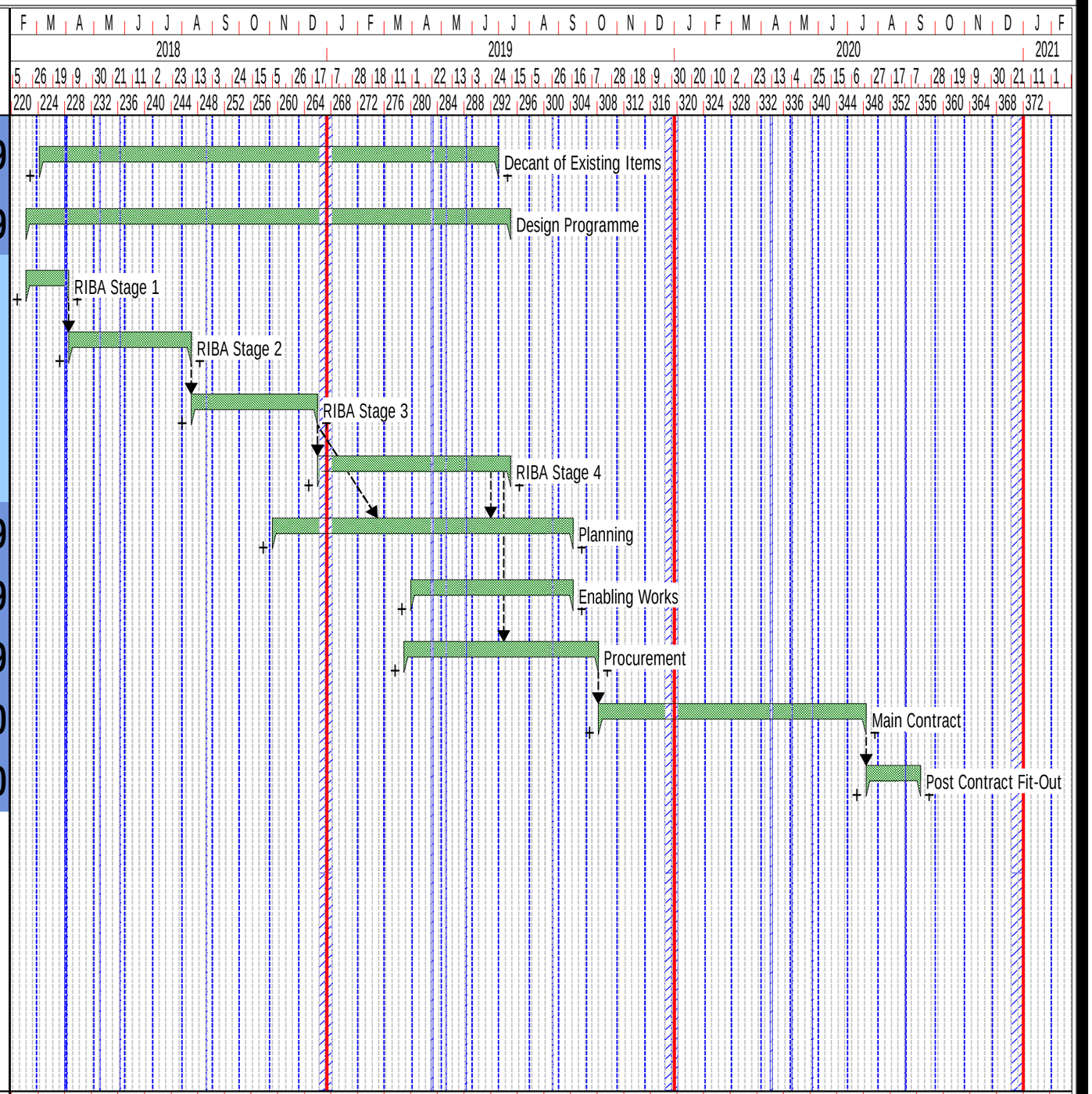
Special Exhibition Gallery

22/07/2019

Science and Industry Museum

Tom Whiley G&T

Line	Name	Duration	Start	Finish
1	Decant of Existing Items	65w 1d	05/03/2018	28/06/2019
2	Design Programme	69w	19/02/2018	12/07/2019
3	RIBA Stage 1	6w	19/02/2018	03/04/2018
4	RIBA Stage 2	18w	04/04/2018	10/08/2018
5	RIBA Stage 3	18w 4d	10/08/2018	21/12/2018
6	RIBA Stage 4	26w 1d	21/12/2018	12/07/2019
7	Planning	42w 1d	05/11/2018	17/09/2019
8	Enabling Works	23w 2d	29/03/2019	17/09/2019
9	Procurement	28w 1d	22/03/2019	14/10/2019
10	Main Contract	37w 2d	14/10/2019	21/07/2020
11	Post Contract Fit-Out	8w	21/07/2020	16/09/2020



Line	Name	Duration	Start	Finish

Drawn by: Tom Whiley - G&T | Dwg No. 01 | Revision No. 11 | Notes:

Project Ref. L:\Filing\MSI - Special Exhibitions Gallery\15. Programme\SIM - Special Exhibitions Gallery Programme Rev 11.pp

Planned by Powerproject