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BIM Execution Plan

University Lecture Hall Project Langdon Road, Swansea

Client: UWTSD



DOCUMENT CONTROL SHEET



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Empire Construction has prepared this report in accordance with the instructions of the above-named client for their sole and specific use.



CONTENTS

1. Introduction	6
Table of Abbreviations.....	8
Information Requirements.....	10
Organisational Information Requirements (OIR's)	10
Asset Information Requirements (AIR)	10
Project Information Requirements (PIR).....	10
Exchange Information Requirements (EIR).....	10
Management.....	14
Roles, Responsibilities and Authorities.....	14
Major Project Milestones	16
Project Information Model Delivery Strategy	17
Health and Safety/CDM Management.....	18
Approval of Information.....	18
PIM Authorisation Process.....	19
Planning and Documentation	20
Agreed Project Processes for collaboration and information modelling	22
Classification.....	24
Task information delivery plan (TIDP).....	25
Master information delivery plan (MIDP).....	25



Standard method and procedure	25
Volume strategy	25
File naming convention	25
Metadata	31
Layer naming convention.....	32
Drawing sheet templates	33
Annotations, dimensions, abbreviations and symbols	35
Attribute data.....	35
IT solutions.....	35
Provision of Common Data Environment.....	36
IT Software versions	36
Exchange formats	37
References.....	38



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1. Introduction

The following document, developed by Empire, must be read in conjunction with the contract documents already issued by or on behalf of the client as part of the tender. This document specifically addresses the obligations, usage and delivery of BIM across the design, construction, operation and maintenance stages of the project in accordance with the principal national and international BIM standards, to successfully enhance collaboration and the UK BIM Framework.

This BEP template is based on the CPIC BEP template document [2] and builds upon the information provided in the pre-contract BEP to specifically to suit the needs of this project.

Existing projects that are based on the superseded PAS 1192-2 and BS 1192 standards, without contractual obligation, can continue as is. On the other hand, an appointed party can elect to transition to the ISO 19650 series. The impact of transition needs to be assessed, in terms of capability, the need for upskilling, risk of change and transitional costs. For ease, the transition would normally take place at the beginning of a stage (for example concept design, developed design, construction, in use), and the earlier in the project lifecycle this takes place, the better.

This BIM Execution Plan has been developed with the use of the following standards:

BS 1192:2007+A2:2016 - Collaborative production of architectural, engineering and construction information – Code of practice.

PAS 1192-2:2013 - Specification for information management for the capital delivery phase of construction projects using BIM.

PAS 1192-3 - (ISO 19650-3 at comment stage) - Specification for information management for the operational phase of assets using BIM.

BS 1192-4 - (ISO 19650-4 proposed) - Collaborative production of information: Fulfilling employer's information exchange requirements using COBie – Code of practice.

PAS 1192-5 - (ISO 19650-5 at comment stage) - Specification for security-minded BIM, digital built environments and smart asset management.

BS 7000-4 - Design management systems: Guide to managing design in construction.



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BS 8541 - Library objects for architecture, engineering and construction

PAS 91 - Construction prequalification questionnaires

BS EN ISO 19650-1:2018 - Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling - Part 1: Concepts and principles.

BS EN ISO 19650-2:2018 - Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling - Part 2: Delivery phase of the assets

PD 19650-0:2019 - Transition guidance to BS EN ISO 19650

Uniclass 2015



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Table of Abbreviations

Table 1 : Abbreviations

Abbr.	Description		
AIR	Asset Information Requirements	BEP	BIM execution plan
BIM	Building information modelling	CDE	Common Data Environment
LD	Lead designer	EIR	Exchange Information Requirements
PDM	Project delivery manager	PIM	Project information model
MIDP	Master Information Delivery Plan	TIDP	Task Information Delivery Plan
LOD	Level of Definition	WIP	Work in progress
LOMD	Level of Model Detail	LOMI	Level of Model Information
COBie	Construction Operations Building Information Exchange	RFI	Request for Information
CPIx	Construction Project Information Exchange		
CPIC	Construction Project Information Committee		
OIR	Organisational Information Requirements		



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Table 2: Project Information

Project Name	
Project Address	Swansea, SA1 1LY
Project Number (Clients Project Number or reference)	6013
Contract Form	
Project Design Start Date	October 2022
Project Construction Start Date	May 2022
Project Completion and Handover Date	July 2024
Project Description	Landmark Lecture Hall
Project Brief and CDM requirements	
Project Deliverable as defined in the EIR and COBie project templates (see also the CIC BIM Protocol)	May be an additional document, please reference.



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Information Requirements

As required by the EIR, this section of the BEP provides details of our proposals for managing the modelling, co-ordination and collaboration processes. Reference is also made to the other sections of this BEP, where further information is provided in response to the EIR.

Organisational Information Requirements (OIR's)

The OIR involves establishing and categorising the information requirements to meet the needs of its asset management system. Organisations can have different needs for information and will require input from various departments and from the people involved in the strategic decision making associated with the asset portfolio.

Asset Information Requirements (AIR)

The AIR requires the organisation to classify the data and information being put into the Asset Information Model (AIM) according to an agreed classification system or through structures of the data store and or file store. The AIR defines the data and information required throughout the asset lifecycle and needs to be sufficient at each stage of the asset's lifecycle.

Project Information Requirements (PIR)

As defined by BS EN ISO 19650-1:2018, PIR explains the information needed to answer or inform high-level strategic objectives within the appointing party in relation to a particular built asset project. PIR are identified from both the project management process and the asset management process.

Exchange Information Requirements (EIR)

EIR set out managerial, commercial and technical aspects of producing project information. The managerial and commercial aspects should include the information standard and the production methods and procedures to be implemented by the delivery team.

The technical aspects of the EIR should specify those detailed pieces of information needed to answer the PIR. These requirements should be expressed in such a way that they can be incorporated into project-related appointments. EIR should normally align with trigger events representing the completion of some or all project stages.

This includes activities such as managing the collaboration process – which shall be managed in accordance with the principles set out in BS EN ISO 19650-2:2018. The information management process relates to the generation of information, quality assurance



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checking, the reviewing, activities for collaborative production of information and its approval with the combined project information model. This shall follow the procedures outlined in BS EN ISO 19650-2:2018

The modelling process, which includes naming conventions, model management, planning of work and data segregation, is described throughout this BEP, in particular Section 3 (management), Section 4 (planning and documentation) and Section 5 (standard methods and procedure). This shall follow the procedures outlined in BS EN ISO 19650-2:2018 and the National Annex to BS EN ISO 19650-2:2018 regarding field codification as stated in ISO 19650-2:2018. Roles and responsibilities for collaboration are defined in section 3.1 of this BEP. The agreed matrix of responsibility across the supply chain is provided in section 3.3.

Clause 5.1 lists the following activities that should be considered in the BEP through the relevant sections:

- Appoint individuals to undertake the information management function.
- Establish the project's information requirements.
- Establish the project's information delivery milestones.
- Establish the project's information standard.
- Establish the project's information production methods and procedures.
- Establish the project's reference information and shared resources.
- Establish the project's common data environment.
- Establish the project's information protocol.

Weekly BIM coordination meetings will be held throughout the design and construction stages of the project. Each meeting will involve all parties responsible for information production at that stage and will include a model review and a discussion to allow each discipline to provide updates on their progress. Meeting minutes will be recorded for each meeting.

A plan of BIM meetings is provided in table 3 below.

Table 3: Meeting Procedures



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Meeting type	Project stage	Frequency	Participants	Location
BIM requirements kick-off	Organizational	Once	Client & Empire	UWTSD Campus
BIM execution plan demonstration	Brief	Once	Client & Empire	UWTSD Campus
BIM coordination	Concept, Definition, Design	Weekly	Empire designers.	UWTSD Campus

Table 4: Model Delivery - Schedule of information exchange for submission and approval:

Information Exchange	File Sender	File Receiver	One-Time Or Frequency	Due Date	Model File	Model Software	Native File Type	File Exchange Type
Design Authoring – 3D coordination	Lead Designer	Task Team Manager	BI-WEEKLY	ddmmyy	ARCH	REVIT	.RVT	.RVT
Design Authoring – 3D coordination	Structural Engineer	Task Team Manager	BI-WEEKLY	ddmmyy	STRUCT	REVIT	.RVT	.RVT



Design Authoring – 3D coordination	Mechanical Engineer	Task Team Manager	BI-WEEKLY	ddmmyy	MECH	REVIT	.RVT	.RVT
Design Authoring – 3D coordination	Electrical Engineer	Task Team Manager	BI-WEEKLY	ddmmyy	ELEC	REVIT	.RVT	.RVT

Table 5: Typical Model Exchange

F	M	T	W	T	F	M	T	W	T	F
Model Upload										
	Clash Check/ Report	Clash Det. Workshop	Actions & Report							
			Resolve/Develop/smaller workshop to resolve issues Design Team Meeting							
										Model Upload



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Management

This section of the BEP covers the requirements of BS EN ISO 19650 relating to the management processes that satisfy the Asset Information Requirements (AIR), Project Information Requirements (PIR) and Exchange Information Requirements (EIR).

Roles, Responsibilities and Authorities

Table 6 records the names and contact details of the appointed party fulfilling the necessary function to make up the delivery team.

Role	Name Company	Email Telephone number
Lead Architect	Empire Construction	Llew Bevan
Construction Manager	Empire Construction	Sean Leach
BIM Lead	Empire Construction	Morgan Lewis
Quantity Surveyor	Empire Construction	Jake Thomas
Quantity Surveyor	Empire Construction	Sophie Morgan

The task team members of the different functions related to production and management of information are given in Table 7.

Role	Authority
Project Delivery Manager (Typically the client's Project Manager)	Confirming resource availability and capability in relation to the responsibilities matrix issued as part of EIR. Identifying training and education needs. Collaborating to develop MIDP with reference to the team members TIDPs. Managing



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	the delivery of information during the project (time scheduling delivery using MIDP. Supervising preparation of documentation for contracts etc.
Project Information Manager	Facilitating the management of the federated model and the production of project outputs. Managing the operation, standards and culture of the CDE. Authorized to enforce the Project BIM Standard and ensure delivery of the information requirement in the EIR.
Lead Designer	Authorized to approve the issue of design information from the WIP area of the CDE to the SHARED area. The LD's coordinated delivery of all design information can run in parallel to the PDM's coordinated delivery of supporting documents. Authorized to enforce spatial coordination.
Task Team Manager	Authorized to enforce documentation standards within the task team. Authorized to sign-off design outputs and information related to a discipline-specific, package-based or time-based task within the WIP area of the CDE and submit to the lead designer (for review and approval from the WIP area to the SHARED area of the CDE).
Task Team Information Manager	Reject non-compliant models, drawings & documents Confirming that information is suitable for issue within CDE. Directing the production task information in compliance with standards and methods



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BIM Coordinator Typically a task team BIM technician, or lead technician on a large project	Managing spatial co-ordination on behalf of a task team. Proposing resolutions to co-ordinate clashes.
BIM Author typically a task team technician or technicians	Develop constituent parts of the information model in connection with specific tasks (ownership of model information)

Major Project Milestones

Table 8 is used to record the major project milestones. A more detailed and co-ordinated TIDP/MIDP is provided in Appendix B/D respectively and a Project Plan (typically a construction programme produced by the main contractor) must be developed and agreed with the stakeholders and appointing party.

Table 8 – Major project milestones

Project phase / milestone	Estimated start date	Estimated completion date	Project stakeholders involved
Brief	10/12/2022	13/12/2022	All disciplines
Concept	28/11/2022	14/03/2023	All disciplines
Definition	14/03/2023	12/05/2023	All disciplines + contractor



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Design	20/05/2023	16/08/2023	Client
Build and Commission	20/08/2023	23/08/2024	Contractor
Handover and close-out		01/09/2025	Client / Empire / Contractor

Project Information Model Delivery Strategy

Table 9 – Strategy for information delivery

Priority (HIGH/ MED/ LOW)	Goal description	Potential BIM uses
HIGH	Produce a clash free BIM model.	Design reviews, 3D coordination
HIGH	Reduce overall project time frame and cost, improve efficiency	3D coordination, cost estimation, 4D modelling
MED	Improve communication and presentation	Design Reviews,
HIGH	Reduce number of RFI's and change orders	3D coordination, design review



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HIGH	Create an as-built model for efficient Facilities Management post construction	Existing conditions modelling, 3D coordination
MED	Minimise construction waste	Design reviews, 3D coordination, engineering analysis

Health and Safety/CDM Management

To be completed by the appointed party in response to the purpose of support for compliance and regulatory responsibilities, or required or suppressed to support risk management, especially to identify and review the risks that a project or asset can be exposed to, for example natural hazards, extreme weather events or fire.

Approval of Information

Table 11 – Schedule of information approval responsibilities

Name	Role or Title	Models	Drawings	Peer Review	Lead Designer/Lead Contractor	Client Review Team
Sean Leach	Project Information Manager					X
Llew Bevan	Lead Designer	X	X		X	X
Sophie Morgan	Task Team Manager -QS					X



Jake Thomas	Task Information Manager - QS					X
Morgan Lewis	BIM Coordinator	X	X	X		
Morgan Lewis	BIM Author	X	X	X		

PIM Authorisation Process

The PIM shall be progressively developed and delivered to the employer through a series of information exchange procedures and be audited and approved through gates as defined in BS EN ISO 19650-2:2018 (see Figure 1 below). These authorization and information exchange procedures shall be repeated at Employer decision points within PD 19650-0:2019 Figure 6 (PAS 1192:2013 and BS EN ISO 19650-2:2018) aligning with completion of RIBA stages 1, 2, 3, 6 & 7, which are defined in the BS 8536-1:2015 and BS 8536-2:2016.

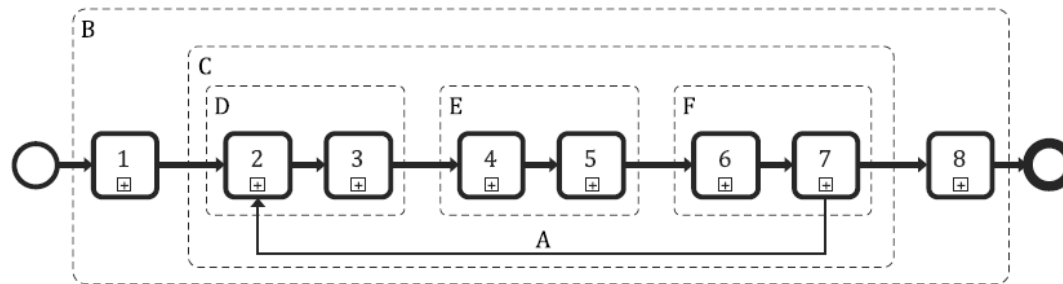


Figure 1 – Information management process during the delivery phase of assets (Scheffer, et al., 2018)

1 assessment and need

An information model progressed by subsequent delivery team(s) for each appointment

2 invitations to tender

B activities undertaken per project

3 tender responses

C activities undertaken per appointment

4 appointments

D activities undertaken during the procurement stage (of each appointment)

5 mobilizations

E activities undertaken during the information planning stage (of each appointment)



6 collaborative productions of information

F activities undertaken during the information production stage (of each appointment)

7 information model delivery

8 project close-outs (end of delivery phase)

Planning and Documentation

This section of the BEP covers the requirements of BS EN ISO 19650 relating to the planning and documentation processes that satisfy the Asset Information Requirements (AIR), Project Information Requirements (PIR) and Exchange Information Requirements (EIR).

BS EN ISO 19650-1:2018 uses information delivery plan as the generic term for any plan in support of information delivery.

Information requirements are defined to address the questions that have to be answered to make key asset-related decisions at different points during the delivery and operation of the asset.

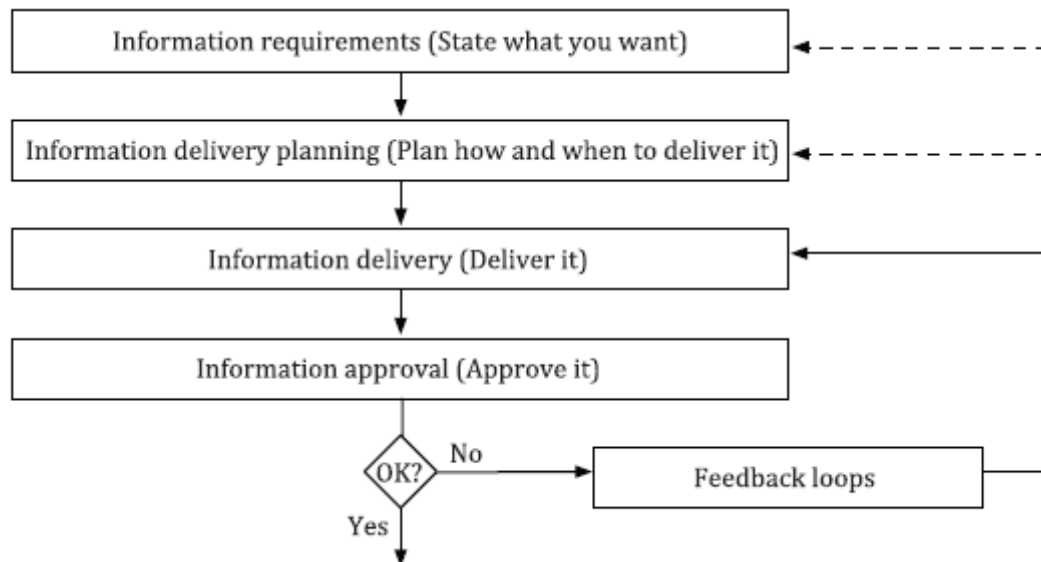


Figure 2 – Generic specification and planning for information delivery (UK BIM Framework, 2023)



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The appointing party shall have regard to the effective management of information throughout the project and reflect the long-term asset information management strategy, as described in ISO 19650-1:2018, by nominating individuals from within the appointing party's organization to undertake the information management function on behalf of the appointing party.

The appointing party shall also have regard to the preparation of information requirements relating to a particular built asset project as described in ISO 19650-1:2018, to answer or inform high-level strategic objectives within the appointing party.

The revised PIP confirms the capability of the supply chain. The PIP consists of the following completed CPLx documentation:

- Supply chain capability summary form
- Supplier building information management assessment form(s)
- Supplier IT assessment form(s)
- Supplier resource assessment form(s)]

The Project Implementation Plan presents the project team's capability, competence and experience of delivering BIM projects, comprising the following documents, which are provided in appendix B:

- Supply chain capability summary form
- Supplier building information management assessment forms
- Supplier IT assessment forms
- Supplier resource assessment forms

The project team's resource for the project is provided in Table 11 below.



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Table 12 – Supplier resource summary

Supplier	Discipline	Resource numbers	Levels of competence	Names of individuals
Empire Architects	Qualified Architect	1	RIBA, CAD/BIM, Specification Author	Llew Bevan
Empire Civils	Infrastructure Engineer	1	CAD/BIM Trained	Morgan Lewis
Empire Structures	Qualified structural Engineer	1	CAD/BIM Trained	Morgan Lewis
Empire Construction	Qualified QS	2	CIBSE	Sophie Morgan Jake Thomas
Empire Construction	Construction Manager	1	CIBSE	Sean Leach
Empire Construction	MEP Technician	1	CAD/BIM Trained	Morgan Lewis

Agreed Project Processes for collaboration and information modelling

A Common Data Environment (CDE) is defined in ISO 19650-1. ISO 19650-1 distinguishes between a CDE workflow (i.e. the process) and the solution (the technology). This helps in understanding what a CDE is and how it plays its part.



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Table 13 – Processes for collaboration and information modelling

Company	Solution	Network	Database	File based	Comments
Empire Architects	Revit 2023	One Drive			
Empire Structures	Revit 2023	One Drive			

The clash detection viewer to be used across the whole project is stated in Table 14.

Table 14 - Clash Detection Viewer

Agreed clash detection viewer	Version
Revitzo	5

The agreed authorisations for security and extranet access and authority to distribute documents are given in Table 15 below, which defines who is authorised to upload, download and change information within the CDE.



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Table 15 – Authorisations for security, extranet and document distribution

Company	Authorised Manager	Authority (Upload, download, change Access/Distribution)
Empire Architects	BIM Information Manager Design Stage	Download, Upload, Change Access/Distribution
Empire Main Contractor	BIM Information Manager Construction Stage	Change Access/Distribution
Empire Architects	Architect/Task Team Manager	Download, Upload, Change Access/Distribution
Empire Consulting Engineers	Structural Consultant /Task Team Manager	Download, Upload, Change Access/Distribution
Empire (QS)	Quantity Surveyor	Download, Upload

Classification

BS EN ISO 19650-1:2018 recommends that classification is in line with ISO 12006-2. This standard defines the framework for classification systems internationally. Each country or region might have its own version aligned to this standard and in the UK this classification system is Uniclass 2015.



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Task information delivery plan (TIDP)

The TIDP is provided in Appendix A,

Master information delivery plan (MIDP)

The MIDP has been developed from the separate TIDPs to provide a more detailed delivery plan. The MIDP has been developed and agreed with the stakeholders and is provided in Appendix C using the same template as the TIDP.

Standard method and procedure

This section of the BEP covers the requirements of BS EN ISO 19650-2:2018.

Volume strategy

See Section 5.3 (file naming convention), sub-section Volume for the definitions and abbreviations of volumes to be used on the project.

PIM origin and orientation

The PIM origin and orientation is stated in table 19 below. And shall be used consistently by all information authors throughout the project. All eastings and northings relate to Ordnance Survey. All elevations are relative to Ordnance Survey.

File naming convention

All project information files shall comply with the file naming convention of BS1192-2007 using the template provided in table 20.

Table 20 – Template for file naming

Field:	Project	Originator	Volume	Level	File Type	Discipline	Number
Code:							

Each field shall be separated with a hyphen and joined together to form the file name. For example:



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ABC-HYD-C-01-DR-S-1001.pdf

Empire's Structural engineering Drawing number 0001 located at level 01 of zone C of project ABC

See the BS EN ISO 19650-2:2018, or any Empire BIM Standards for additional explanation.

Project

Table 21 defines the project code that will be used for this project:

Table 21 – Project code(s)

Code	Project
6013	

Where an organisation needs to use their own internal project numbers, then they can be indicated in the drawing title block using a separate 'project number' box.

Originator

The following originator codes have been agreed and shall be used by the relevant parties for file naming purposes on this project:

Table 22 – Originator codes

Code	Originator Company name
A	Architect
S	Civil and structural engineer
ME	Mechanical and electrical engineer
	etc



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Volume

Volumes are not required for any reason on this project and therefore the project will comprise a single volume. The volume code XX shall be used to signify this.

Level or Location

The following level or location codes have been agreed and shall be used by the relevant parties for file naming purposes on this project:

Table 24 – Level or location codes

Code	Level	Code	Level
01	Ground Floor		
02	First Floor		
XX	General Floorplan		

Table 25 – Agreed file types for documents

Code	File Type
M3	Model File (3D)
M2	Model File (2D)
MR	Model Detection File (for Coordination, not original format)
AF	Animation File

VF	Visualisation File
DB	Database
DR	Drawing
IR	Issue Register
PP	Presentation
RD	Room Data Sheet
SA	Schedule of Accommodation
SC	Structural Calculation
SH	Schedule
SK	Sketch
SP	Specification



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Discipline

A list of discipline or role codes as recommended in BS EN ISO 19650-2:2018 shall be used for file naming purposes, as shown in the table below.

Table 26 – Discipline codes

Code	Discipline
A	Architect
B	Building Surveyor
C	Civil Engineer
D	Drainage, Highways Engineer
E	Electrical Engineer
F	Facilities Manager
G	Geographical Information System Engineers and Land Surveyor
I	Interior Designer
K	Client
L	Landscape Architect
M	Mechanical Engineer
P	Public Health Engineer



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Q	Quantity Surveyor
S	Structural Engineer
T	Town and Country Planner
W	Contractor
X	Sub-Contractor
Y	Specialist Designer
Z	General (non-disciplinary)

Table 27 – Extended discipline codes for this project

Code	Discipline
0001	Architect
0010	Structural



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Number

For this project, all disciplines shall use numbers comprising four integer numeric digits, with leading zeros as required. Each discipline may use their own set of numbers independently of other disciplines, ranging between 0001 and 9999.

Metadata

The following metadata status codes shall be used for this project, in accordance with BS EN ISO 19650-2:2018 National Annex NA.4:

Table 28 – Metadata status codes

Status	Description	Revision	Revision Code
“Work in progress” (WIP)			
S0	Initial status	Preliminary revision and version	P01.01, P01.02 etc
Shared (non-contractual)			
S1	Suitable for coordination. The file is available to be ‘shared’ and used by other disciplines as a background for their information.	Preliminary revision	P01, P02 etc
S2	Suitable for information.	Preliminary revision	
S3	Suitable for review and comment.	Preliminary revision	
S4	Suitable for stage approval.	Preliminary revision	
S5	Withdrawn	N/A	



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S6	Suitable for PIM authorisation	Preliminary revision	
S7	Suitable for AIM authorisation	Preliminary revision	
Published (Contractual)			
A1, An.	Approved and accepted as stage complete (C=Contractual/Complete)	Contractual revision	C01, C02 etc
B1, Bn.	Partially signed-off with minor comments from the Client (clouded in abeyance)	Preliminary revision	P01.01, P01.02 etc
Published (for AIM Acceptance)			
CR	As Construction Record documentation, PDF, models	Contractual revision	C01, C02 etc

Layer naming convention

Table 29 – BS1192 Layer naming convention

Field	Discipline	Classification	Presentation	Description
Name	A	G23	M2	Stairs
Example	Architect	Stairs (Uniclass)	Model geometrics (2D)	



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2D software may be used for BIM level 2 authoring, but typically we expect 3D modelling to be the norm at this level. Therefore, all modelling and co-ordination should be produced using RVT, IFC and NWD formats where layer naming convention is not required. In the case where CAD layering is used, due to the withdrawal of BS1192, the BS1192 layering is also withdrawn. The ISO 13567 layering then takes precedence in the case of ISO 13567.

Table 30 - ISO 13567 Layer naming convention

Mandatory Fields								Optional Fields						
Agent		Element					Presentation	Status	Sector	Phase	Project	Scale	Work Package	User Description
A		3	7	4			T							
Short Name														
A	1	3	7	4	2	0	T2	N	01B1	1	3	B	23	arch
Long Name														

Drawing sheet templates

Table 32– List of drawing sheet templates



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Sheet Size	Sheet File name
A0 Landscape	NUM-DR-A-A0 Landscape/Vertical Title Block
A1 Landscape	NUM-DR-A-A1 Landscape/Vertical Title Block
A3 Landscape	NUM-DR-A-A3 Landscape/Vertical Title Block
A0 Portrait	NUM-DR-A-A0 Portrait/Vertical Title Block
A1 Portrait	NUM-DR-A-A1 Portrait/Vertical Title Block
A3 Portrait	NUM-DR-A-A3 Portrait/Vertical Title Block

Table 33 – Drawing sheet scales.

Scale	Description of detail
1:1000	1:1000 Scale Detail shows shape and layout
1:500	
1:200	



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1:100	1:100 Scale Detail shows shape, layout and construction elements
1:50	1:50 Scale Detail shows how the construction elements meet at junctions
1:20	
1:10	
1:5	1:5 Scale detail show shape, dimensions and assembly of the separate construction elements
1:1	All model files must be modelled at 1:1 Scale

Annotations, dimensions, abbreviations and symbols

Table 34 – Agreed units.

Type of information	Millimetres	Metres	Degrees	Radians	Clockwise	Counter
Models	X					
Drawings	X					

Attribute data

Attribute data for the project as defined in the EIR and appropriate COBie templates.

IT solutions

This section aims to cover the requirements of BS EN ISO 19650-2:2018.



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Provision of Common Data Environment

The following common data environment solution shall be used on this project:

Table 35 - Common Data Environment Solution

Name of the CDE	TBC
CDE Address	TBC
Document Controller	TBC

IT Software versions

Each discipline shall use the agreed software throughout the project as stated in the following table:

Table 36 – Agreed software versions

Company	Database	CAD software	Version	Format	Comments
A	One Drive	Revit	2023	rvt	
S	One Drive	Revit	2023	rvt	
MEP	One Drive	Revit	2023	rvt	
CON	One Drive	Revit	2023	rvt	



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Exchange formats

The agreed formats for model and drawing file exchange are:

Table 37 – Agreed exchange formats for models and drawings

	DWG	DGN	DWF	PDF	IFC	Other
Models					x	rvt
Drawings	x			x		rvt
Final drawing format	x			x		PDF
Schedules or spreadsheets				x		xls

Process and data management systems

The process and data management systems shall be described under section 3.2 Agreed project processes for collaboration and information modelling.



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References

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EMPIRE
CONSTRUCTION

Task Information Delivery Plan

File Identifier							Model / Data Title	Delivery Milestones					
Project	Originator	Volume	Level	File type	Discipline	Number		Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5	etc
PR1	TBC	V1	XX	M3	A	0001	Architectural Model)	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	TBC	XX	XX	CR	A	0010	Clash detection	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	TBC	XX	XX	IE	A	0020	Information Exchange Data (COBie)	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	RE	A	0030	Documentation	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	V3	XX	M3	S	0010	Structural Engineers Model	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	CR	S	0010	Clash detection	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	IE	S	0020	Information Exchange Data (COBie)	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	RE	S	0030	Documentation	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

PR1	GR2	V5	XX	M3	M	0001	MEP Model	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	V6	XX	M3	M	0002	MEP Model	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	CR	M	0010	Clash detection	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	IE	M	0020	Information Exchange Data (COBie)	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
PR1	GR2	XX	XX	RE	M	0030	Documentation	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy