



6033 - Steel Museum

BIM Strategy

Ace Capital Projects Ltd

30 October 2023

0001



Notice

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This document has 8 pages including the cover.

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Client signoff

Client	Ace Capital Projects Ltd
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Introduction

This is our BIM strategy and proposals we outline to the Client for review it also includes some queries and possible approvals, pending check and review process from the client which is subject to change upon the creation of the BIM Execution Plan (BEP) which will extend into greater detail around these topics.

Executive Summary

Blueprint Construction have assessed the Exchange Information Requirements from the Client and understand that our project must fully conform with BS EN 19650 -1, BS EN 19650 -2 & BS EN 19650 -3. We have also outlined incorporating Uniclass 15 tables into our structural models. Blueprint Construction would like to reiterate that the architectural designs have been undertaken by a third party, and that we are not liable for any issues. We also request the architectural information conforms to the EIR. Blueprint endeavours to follow the list of associated approved formats and is fully competent in using REVIZTO, Excel & IFC formats. All outputs are to conform the correct BIM naming conventions as outlined in BS EN 19650. Further update on this strategy will be later published in Blueprint Constructions BIM Execution plan (BEP).

As a company we are more than capable of achieving the set deliverables presented to us within the EIR, we have industry knowledge and working practice using REVIZTO & Excel and would like further to suggest some other software we think will be beneficial to the project such as Autodesk Robot Structural Analysis, to aid with the structural design of the museum. Further information about the product can be provided upon approval, along with relevant training and interoperable access.

1. Exchange Information Requirement Findings

- We understand that there is no need to capture any existing assets in 3D, but we have found the location of services assets in 2D for safety reasoning and Clash detection purposes, this is the only information available from most service providers.
- We will aim to use REVIT to model the structural design to fully follow the EIR.
- Further confirmation from the client needed around relative coordinate systems and origins to be displayed on design drawings.

1.1. Level of Detail 5 (LOD) and Level of Information 6 (LOI)

- Visual information to fully support Construction and coordination, Blueprint will incorporate the Use of approved software REVIZTO to undertake multi-disciplinary model clash detection and manage any design change through the clash system. Incorporating a bi-weekly Information Clash Detection (ICD) meeting the organise and discuss these issues.
- Blueprint shall supply dimensionally correct graphical data which can be linked and cross referenced to the architectural design which will supply sufficient information for construction of specified materials and products.
- Non graphical data and specifications are to be linked to models using Microsoft Excel and should be read in co-ordination with all models as per BS EN 19650, BS EN 17412-1 (BSI Standards Institution, 2018)
- Products/Systems that are added to the AIR matrix will be consulted with ACECP Ltd through the submittal of an approval request form.

1.2. Generation, review & approval of information

- Use of file types will adhere to the below with competency records provided upon instruction:

File Type	Format	Version
Graphical Models	<i>RVT</i> <i>IFC</i> <i>Revizto</i> <i>RTD</i>	<i>Latest Release (or as agreed)</i> <i>2x3</i> <i>Latest Release</i> <i>Latest Release</i>
Non-graphical Data*	<i>XLSX</i>	<i>Latest Release (or as agreed)</i>
Drawings & Documentation	<i>PDF & DWG</i>	<i>n/a</i>

- ACECP will be given read only rights to REVIZTO to see the models, to undertake regular reviews.
- Technical query process will function using REVIZTO and Excel for graphical and non-graphical information, this process will be used to track changes for red line drawings and as-built records, The technical query documentation will be formulated using SiteMate software and converted to Excel.
- The submission of Material Approval Requests (MAR) will be sent through Excel format and incorporated into the according 3D Models.
- Quality control will undertake the Originate, Check, Review & Approve (OCRA) process undertaking full check, review, and authorisation by all members of staff prior to Issue of documents.
- Common Data environment will be through SharePoint and teams, ACECP Ltd to have access to this and no other locations are to be used to save files.

2. Co-ordination & Overall Responsibility

- Blueprint & ACECP are to ensure that the any other Project Team Members comply with the Information Requirements and the other terms to 6033-ACECP-XX-XX-T-K-0001-EIR and other obligations under this Agreement.
- Blueprint will also consult the relevant Local Authority (Neath & Port Talbot County Council) regarding any relevant design information for Highways, drainage, Environmental & structures. Also, any Temporary highways amendments.

- Blueprint Construction will also include any information received from a third party or Client source into the CDE and federated model.
- BEP and the data exchange proposals shall be submitted by Blueprint in accordance with the Review Procedure within one (1) month of the Commencement Date.

Blueprint Construction to ensure that the Other Project Team Members shall:

- provide such co-operation and assistance to Blueprint Construction between all third parties and ACECP to facilitate it carrying out its obligations under 6033-ACECP-XX-XX-T-K-0001-EIR.
- Attend regular design meetings that outline progress within the project including all Blueprint Construction representatives & ACECP Representatives.
- Blueprint Construction are to ensure all third parties are to include ACECP with any information.

3. Obligations

- Throughout the project lifecycle Blueprint must adhere to:
 - Model production delivery table (within EIR)
 - 6033-ACECP-XX-XX-T-K-0001-EIR.
 - BIM Execution Plan (BEP)
 - BIM Naming Convention
- Blueprint will ensure that until the end of the Project the Material and the Model Production Delivery Table are reviewed and updated at each Stage (and ensure that the Client has read only access to both through the Common Data Environment at all times throughout the Project) in accordance with the Information Requirements (BSI Standards Publication, 2021).
- Blueprint Construction will ensure that the security of information models, security of information change & associated data will be adhered to in accordance BS EN 19650-5 which is an update of PAS 1192-5 (BSI Standards Publication, 2020).
- Blueprint to treat project information in the strictest confidence, unless otherwise agreed with ACECP Ltd.

- Appropriate cyber protection methods and anti-virus software's are to be used in order to comply with BS EN 19650-5 (BSI Standards Publication, 2020).
- Blueprint will ensure to provide and deliver all specified models to the Common Data Environment (CDE) at the LOD and LoI need specified within the information requirements at each RIBA stage of work outlined and agreed with the Client (BSI Standards Publication, 2021). ACECP to be provided with read-only access to the CDE through the length of the project, ACECP also require interoperable collaboration through REVIZTO for client review.

Reference list

British Standards Institution (2018). *PAS 1192-6:2018 Specification for collaborative sharing and use of structured Health and Safety information using BIM*. BSI Standards Limited 2018.

BSI Standards Institution (2018). *BS EN ISO 19650-1:2018 BSI Standards Publication Organization and Digitization of Information about Buildings and Civil Engineering works, Including Building Information Modelling (BIM) -Information Management Using Building Information Modelling - Concepts and Principles*. BSI Standards Limited 2018.

BSI Standards Publication (2020). *BS EN ISO 19650-5:2020 BSI Standards Publication Organization and Digitization of Information about Buildings and Civil Engineering works, Including Building Information Modelling (BIM) -Information Management Using Building Information Modelling - Security Minded Approach to Information Management*. BSI Standards Limited 2020.

BSI Standards Publication (2021). *BS EN ISO 19650-2:2021 BSI Standards Publication Organization and Digitization of Information about Buildings and Civil Engineering works, Including Building Information Modelling (BIM) -Information Management Using Building Information Modelling - Delivery Phase of Assets*. BSI Standards Limited 2021.