

**UNL**

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## Table of Contents

<b>DECISION CRITERIA FOR WHEN TO USE BIM PROCESS FOR NU PROJECTS</b>	<b>Page 3</b>
<b>GENERAL</b>	<b>Page 4</b>
PURPOSE OF DOCUMENT	
BIM DEFINITION	
MODEL OWNERSHIP	
<b>MODEL REQUIREMENTS</b>	<b>Page 5</b>
SOFTWARE	
MODEL FILE TEMPLATE AND COORDINATES	
MODEL QUALITY	
BIM COORDINATOR	
LEVEL OF DEVELOPMENT	
<b>BIM DELIVERABLE CHECKLIST</b>	<b>Page 7</b>
<b>APPENDIX A</b>	
<b>APPENDIX B</b>	

## **Acknowledgements**

The University of Nebraska is indebted to those many organizations that have helped pave the path for Owner organizations in the development of Building Information Modeling (BIM) Guidelines, Standard Practices,

## **BIM Process Decision Criteria for BIM process for NU Projects**

- 1) If the project budget exceeds \$500K - BIM is recommended.
- 2) If the project budget exceeds \$2 Million - BIM is mandatory unless waived by the NU Project Manager (PM).
- 3) If the project area exceeds 5,000 SqFt - BIM is recommended.
- 4) If the project area will exceed 25,000 SqFt - BIM is mandatory unless waived by the NU PM.
- 5) If the project type is a new building OR an addition to an existing building - BIM is mandatory unless waived by the NU PM.
- 6) If the majority of the project scope is mechanical, electrical and plumbing - BIM is recommended but all information outlined in Appendix B shall be provided.

## **General**

### **PURPOSE OF DOCUMENT**

NU has adopted Building Information Modeling (BIM) as a process for recording project documentation, development and as-built record documentation for select projects. Our goal is to achieve the following benefits from BIM.

Visualization: To improve client communication by providing multiple opportunities for visualization and review during each project phase.

Reduction in construction costs and change orders: To identify opportunities to drive project savings early in the project.

Information: To develop a model that could serve as a central repository for the best available facility information at any point of time.

This guideline should be used to develop the Building Information Model but it is not intended to replace or supersede the NU Design Deliverable Checklist.

To comment or discuss an issue with the content of this document, please contact the NU PM. Any BIM models provided by NU are for reference only. On-site verification of existing conditions is still required.

### **BUILDING INFORMATION MODEL DEFINITION**

Building Information Modeling (BIM) is a process that is focused on the development, use, and transfer of a Model to improve the design, communication, construction and operations of a project from design through project closeout, operation, renovation, and removal. The term “model” is used in these guidelines a 3D parametric digital representation of building elements and data.

### **MODEL OWNERSHIP**

a suitable template that fulfills all requirements of the BIM Execution Plan. The AE will be responsible for periodically uploading updated models as directed by the NU Project Manager.

## **MODEL REQUIREMENTS**

### **SOFTWARE**

The design and construction Team is required to use software compatible with NU's electronic project collaboration environment: Autodesk AutoCAD 2 (Current Version), Autodesk REVIT Architecture (Project Approved Version).

### **MODEL FILE TEMPLATE AND COORDINATES**

The design team shall use the default templates provided by Revit. Spatial coordinates shall be set at the beginning of project. It is the design team's responsibility to verify the accuracy of all coordinates and to provide a grid intersection at (0, 0). Survey elevations shall be based on established USGS datum, tied to local coordinates, and, importable into current NUGIS mapping software. AE to coordinate with NU GIS Coordinator and NU PM for verification of this step.

### **MODEL QUALITY**

If BIM is provided as part of the design team scope of services, the team shall provide a BIM Execution Plan as part of their contract. The design team will be responsible for making any changes/additions/modifications to the model as requested by NU, prior to as-built document submission.

### **BIM COORDINATOR**

The design team shall assign a BIM coordinator for the project. The BIM coordinator will serve as the primary contact for any model related issues and will be responsible for developing a BIM schedule. NU facilities staff will review the model periodically.

The primary responsibilities for the BIM coordinator role shall include the following.



## BIM Deliverable Checklist

The BIM deliverable checklist does not replace the University of Nebraska A/E Design deliverables checklist. The intent of the BIM Deliverable checklist is to help the design team and contractors ensure that the model provided meets NU expectations and that the model can be used for the identified purpose at each project phase.

Item	Schematic Design	Design Development	Construction Document	Construction	End of project
<b>Approximate LOD</b>					
<b>Model to be used for (* Optional)</b>	<ul style="list-style-type: none"> <li>x Project Phasing</li> <li>x Space layout</li> <li>x Preliminary cost</li> </ul>				



## APPENDIX A

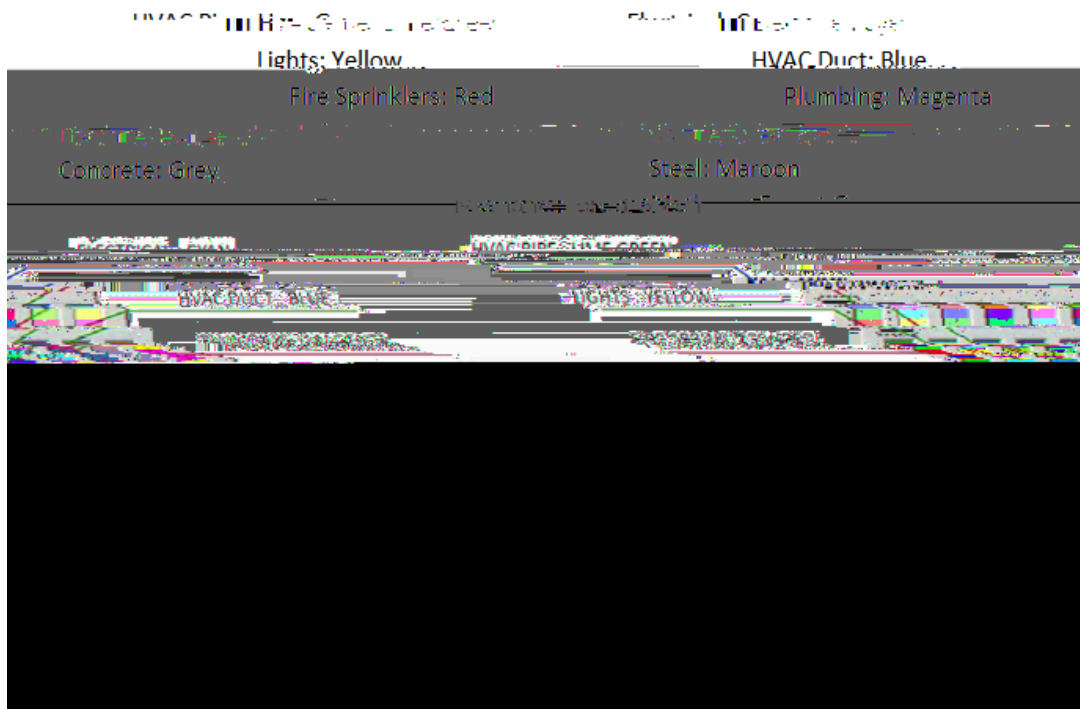


Figure 1 rAdopted from USCBIM Guidelines version 1.6\_April 18, 2012