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GSA Region 5

BIM EXECUTION PLAN

FOR

[PROJECT TITLE]

Revision: 0.0

### Submitted Date: ##/##/####

### Submitted By:

**U.S. General Services Administration**

**Public Buildings Service**

This document was created using the GSA Region 5 BEP Template version 4.0.1

# ****Forward****

**The BIM Execution Plan (BEP)** is developed to provide a master information/data management plan and assignment of roles and responsibilities for model creation and data integration at project initiation. The BEP aligns the project acquisition strategy needs and requirements with GSA technical standards, team member skills, construction industry capability, and technology maturity. Through this process, the team members and GSA project management have jointly agreed on how, when, why, to what level, and for which project outcomes BIM will be used.

This document was developed based on the GSA Region 5 BEP template. The GSA Region 5 BEP template is a modified version of the GSA National BEP template. The changes have been made to bring the template into alignment with the GSA Region 5 BIM Standards.

BIM PROJECT EXECUTION PLAN
FOR

***[PROJECT TITLE]***

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# SECTION A: BIM PROJECT EXECUTION PLAN OVERVIEW

To successfully implement Building Information Modeling (BIM) on a project, the project team has developed this detailed BIM Project Execution Plan. The BIM Project Execution Plan defines uses for BIM on the project (e.g. design authoring, spatial data management, and design coordination), along with a detailed design of the process for executing BIM throughout the project lifecycle.

INSERT ADDITIONAL INFORMATION HERE IF APPLICABLE. FOR EXAMPLE: BIM MISSION STATEMENT. This is the location to provide additional BIM overview information. Additional detailed information can be included as an attachment to this document.

# SECTION B: PROJECT INFORMATION

This section defines basic project reference information and project milestones.

## Project Basics:

|  |  |
| --- | --- |
| Project Owner: |  |
| Project Name: |  |
| Project Location and Address: |  |
| Contract Type / Delivery Method: |  |
| Brief Project Description: | [NUMBER OF FACILITIES, GENERAL SIZE, CONSTRUCTION BUDGET, TOTAL BUDGET, ETC] |
| Additional Project Information: | [UNIQUE BIM PROJECT CHARACTERISTICS AND REQUIREMENTS] |

## Project Numbers:

|  |  |
| --- | --- |
| Project Information | Number |
| Solicitation Numbers | xxxxxxxxxxxxxxx |
| *GSA Project Control Number* | xxxxxxxxxxxxxxx |
| *GSA Building Number* | xxxxxxxxxxxxxxx |
|  |  |
|  |  |
|  |  |

## Project Schedule/Phases/Milestones:

|  |  |  |  |
| --- | --- | --- | --- |
| Project Stage / Milestone | Estimated Start Date | Estimated Completion Date | Project Stakeholders Involved |
| *Design Stage* |
| *Design Model* | *Design concept phase*LOD 100-200 |  |  |  |
| *Design development phase*LOD 200-300 |  |  |  |
| *Construction Documents Phase**LOD 300 Complete* |  |  |  |
| *Construction Stage* |
| *As-built Model* | *Construction delivery Phase**LOD 400 Complete* |  |  |  |
| *Project close-out phase**LOD 500 Complete* |  |  |  |

## Project Management System

ePM is the standard GSA Project Management System(PMS). If additional systems will be used, list them below.

# SECTION C: KEY PROJECT CONTACTS AND ROLES

The team has identified who will be responsible for various aspects of the project based on delivering the BIM goals. The intent of the team is only to help clarify contractual obligations of the team members and stakeholders. No portion of this is intended to redefine or override any contractual obligations each party owes under their respective contracts.

## BIM Roles and Responsibilities

This section is intended to cover the macro level major responsibilities of the team members.

|  |  |
| --- | --- |
| Stakeholder | Scope of Work |
| Architect | Overall design lead responsible for overseeing the design through LOD300 and contributing to the LOD400 and LOD500 efforts. Establish and maintain the projects DMS through project close out. |
| Engineer | Establish and construct the design BIMs for all mechanical, electrical, and plumbing systems. |
|  |  |
|  |  |
|  |  |
|  |  |

## Project Contacts

These are the primary management and technical contacts. These contacts should be used to seek immediate resolution of projects coordination challenges.

### Design Team

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Role | Organization | Contact Name | Location | E-Mail | Phone |
| Lead Project Integrator |  |  |  |  |  |
| Lead Q/C |  |  |  |  |  |
| Owner |  |  |  |  |  |
| GSA BIM Rep. |  |  |  |  |  |
| Project Manager(s) |  |  |  |  |  |
| Project Architect(s) |  |  |  |  |  |
| BIM Manager(s) |  |  |  |  |  |
| Consultant #1 Discipline Lead |  |  |  |  |  |
| Consultant #2 Discipline Lead |  |  |  |  |  |
| Other Project Roles |  |  |  |  |  |

### Construction Team

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Role | Organization | Contact Name | Location | E-Mail | Phone |
| Lead Project Integrator |  |  |  |  |  |
| Lead Q/C |  |  |  |  |  |
| Project Manager(s) |  |  |  |  |  |
| BIM Manager(s) |  |  |  |  |  |
| Discipline Leads |  |  |  |  |  |
| Other Project Roles |  |  |  |  |  |
|  |  |  |  |  |  |

# SECTION D: PROJECT GOALS/BIM USES

## Major BIM Goals / Objectives:

The projects goals are defined below as well as what metric is being used to validate their success. After careful consideration of the BIM maturity of the team members tasked with their completion, the team believes that all goals listed are achievable.

The team believes that the success of all goals defined is a team effort and expects all stakeholders and project participants to positively contribute to their success.

|  |  |  |
| --- | --- | --- |
| Priority / Measurement | Goal /Achieved if | Primary Responsibility |
| PriorityHigh | Goal: Leverage Spatial Data Management to conduct digital code reviews and energy analysis.  | Owner / Operator | Provide standards to design team. Inform the team of historic energy data as well as local code related issues.  |
| Architect | Embed the SDM into the design model, and assist with embedding this data into the construction model. Will conduct reviews of energy model. Will lead digital code review meetings. |
| Mechanical Consultant | Will use the SDM data from the Architect to programmatically derive the Space elements used for energy calculations. Will conduct digital energy analysis and track results through the design of the project. |
| Builder / Contractor | Ensure that proper SDM data is included within the construction model. |
| Measurement | Achieved if:* Energy consumption projections are reduced by >15% using the model.
* No substantial code violations surface during construction.
 | Builder / Contractor | Track code compliance through construction. Report any code related issues to the team including costs to the project in both dollars and time. |
| Architect | Perform root-cause analysis on any code issues that cost the project during construction and present the results to the team.  |
| MEP Contractors | Ensure that strategies for energy consumption reduction are taken from design to the real world. Report any deviations to the team. |

## Major BIM Goals / Objectives (Cont.):

|  |  |  |
| --- | --- | --- |
| Priority / Measurement | Goal /Achieved if | Primary Responsibility |
| PriorityHigh | Goal:Model based constructability verification (clash detection, clearance verification, etc.) | Owner / Operator | Provide accurate dimensional information for service and maintenance requirements. |
| End-user  | Attend coordination meetings to verify requirements are implemented correctly within the model. |
| Architect | Generate BIM in a way to facilitate the goal. Ensure that both real objects and non-real space claims are properly modeled.  |
| *MEP Contractors* | *Ensure that MEP LOD is sufficient to achieve the goal.* |
| *VDC Consultant* | *Verify weekly that all parties are working towards achieving the goal.* |
| Measurement | Achieved if:* Change orders and RFIs are reduced by 50% or more from a traditional project.
* 50% or more off-site fabrication.
* See overall reduction in gross sq. ft. cost compared to traditional project. See large reduction in last minute changes.
 | *Builder / Contractor* | *Track quantity and impact of RFIs and provide competitive feedback to the project team.* |
| *MEP Contractors* | *Track percentage of off-site fabrication. Inform team on benefits and challenges encountered.* |
| *Owner / Operator* | *Track and report to the team overall costs. Provide this in comparison to historic cost data.*  |
|  |  |

## BIM Uses

After careful consideration the team has decided on a number of BIM uses on the project. These uses are based on what stage of the project they are to be completely implemented.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Maturity* | *BIM Uses* | *LOD-100(Pre-design)* | *LOD-200(Schematic Design )* | *LOD-300(Design Development)* | *LOD-350(Construction Documents)* | *LOD-400(Fabrication / Construction)* | *LOD-500(Closeout)* | *LOD-500(Operation & Management)* |
| *Visualization* | *Programming* | *X* | *X* |  |  |  |  |  |
| *Site Analysis* | *X* | *X* |  |  |  |  |  |
| *Design Reviews* |  | *X* | *X* | *X* |  |  |  |
| *Phase Planning (for presentations)* | *X* | *X* | *X* | *X* |  |  |  |
| *Documentation* | *Existing Conditions Modeling* | *X* | *X* | *X* | *X* | *X* | *X* | *X* |
| *Design Authoring* |  | *X* | *X* | *X* |  |  |  |
| *Cost Estimation (Quantity takeoff)* |  |  |  | *X* |  |  |  |
| *Record Modeling* |  |  |  |  | *X* | *X* |  |
| *COBie* |  | *X* | *X* | *X* | *X* | *X* | *X* |
| *BIM Requirements for FM* |  |  |  |  |  |  |  |
| *Model-Based Analysis* | *Space Management and Tracking* |  | *X* | *X* | *X* |  |  | *X* |
| *Engineering Analysis* |  | *X* | *X* | *X* |  |  |  |
| *a. Energy Analysis* |  | *X* | *X* | *X* |  |  |  |
| *b. Structural Analysis* |  | *X* | *X* | *X* |  |  |  |
| *c. Lighting Analysis* |  |  | *X* | *X* |  |  |  |
| *d. Mechanical Analysis* |  |  | *X* | *X* |  |  |  |
| *e. Other Engineering Analysis* |  | *X* | *X* | *X* |  |  |  |
| *Sustainability (LEED) Evaluation* |  |  | *X* | *X* |  |  |  |
| *Disaster Planning* |  | *X* | *X* | *X* |  |  | *X* |
| *Cost Estimation (Estimating)* | *X* | *X* | *X* | *X* | *X* | *X* | *X* |
| *Phase Planning (4D modeling)* |  |  |  | *X* | *X* |  |  |
| *Site Utilization Planning* |  |  |  | *X* | *X* |  |  |
| *Integrated Analyses* | *3D Coordination* |  |  |  | *X* | *X* |  |  |
| *Construction System Design* |  |  |  |  | *X* |  |  |
| *3D Control and Planning (Digital Layout)* |  |  |  |  | *X* |  |  |
| *Digital Fabrication (Supply chain management)* |  |  |  |  |  |  |  |
| *Building (Preventative) Maintenance Scheduling* |  |  |  |  |  |  | *X* |
| *Building System Analysis* |  |  |  |  |  |  | *X* |
| *Asset Management* |  |  |  |  |  |  | *X* |
| *Automation & Optimization* | *Code Validation* |  |  |  | *X* |  |  |  |
| *Digital Fabrication (Off-site fabrication)* |  |  |  |  | *X* |  |  |

## VDC Scorecard

GSA Central Office in conjunction with Stanford’s CIFE has developed a standard VDC Scorecard. The use and deployment of the VDC Scorecard is a continuing process. Teams interested in the benefits of the VDC Scorecard should closely coordinate its use with GSA BIM representatives.

If it is determined that a VDC (Virtual Design & Construction) Scorecard will be adopted throughout the project’s design, construction and handover activities document its use in this section.

Typically the VDC Scorecard is applied to large projects. Consult with the GSA R5 BIM Champion for additional direction if there is interest in the Scorecard approach.

More information can be found at: <https://vdcscorecard.stanford.edu/content/vdc-scorecard>

GSA Employees can learn more at: <https://sites.google.com/a/gsa.gov/bim-toolkit/vdc-scorecard>

# SECTION E: COLLABORATION PROCEDURES

## Collaboration Strategy:

Describe how the project team will collaborate. Include items such as communication methods, document management and transfer, record storage and performance incentives in timely receipt and quality of deliverables, etc.

## Meeting Procedures:

The following are examples of meetings that should be considered.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Meeting Type** | Project Stage | Frequency | Participants | Location |
| BIM requirements kick-off |  |  |  |  |
| BIM execution plan demonstration |  |  |  |  |
| Design coordination |  |  |  |  |
| Construction over-the-shoulder progress reviews |  |  |  |  |
| Any other BIM meetings that occurs with multiple parties |  |  |  |  |

## Model Delivery Schedule of Information Exchange for Submission and Approval:

Document the information exchanges and file transfers that will occur on the project.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Information Exchange*** | ***File******Sender*** | ***File******Receiver*** | ***One-Time Or Frequency*** | ***Due Or Start Date*** | ***Model File*** | ***Model Software*** | ***Native File Type*** | ***File Exchange Type*** |
| *Design authoring – 3D coordination*  | *Structural engineer* | *(FTP post)**(coordination lead)* | *Weekly* | *[date]* | *STRUCT* | *Design App* | *.XYZ* | *.XYZ**.ABC* |
|  | *Mechanical Engineer* | *(FTP Post)**(Coordination Lead)* | *Weekly* | *[date]* | *MECH* | *Design App* | *.XYZ* | *.XYZ**.ABC* |
|  |  |  |  |  |  |  |  |  |

## Interactive Workspace

The project team should consider the physical environment it will need throughout the lifecycle of the project to accommodate the necessary collaboration, communication, and reviews that will improve the BIM Plan decision making process. Describe how the project team will be located. Consider questions like “will the team be collocated?” If so, where is the location and what will be in that space? Will there be a BIM Trailer? If yes, where will it be located and what will be in the space such as computers, projectors, tables, table configuration? Include any additional information necessary information about workspaces on the project.

## Electronic Communication Procedures:

(Note: File Naming and Folder Structure will be discussed in Section H: Model Structure).

The following document management issues should be resolved and a procedure should be defined for each: Permissions / access, File Locations, FTP Site Location(s), File Transfer Protocol, File / Folder Maintenance, etc.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***File Location*** | ***File Structure / Name*** | ***File Type*** | ***Password Protect*** | ***File Maintainer*** | ***Updated*** |
| *FTP Site:**ftp://ftp.\*\*\*\*.com/\*\*\*/* | *Root Project Folder* | *Folder* | *Yes**\*\*\*\*\*\*\*\*\*\*\** | *Jim McBIM* | *Once* |
|  | *ARCH Project Folder* | *Folder* |  |  | *Once* |
|  | *ARCH-11111-BL001.xyz* | *.xyz* |  |  | *Daily* |
| *Network drive @ PSU**F:\PROJECT\BIM* | *Root Project Folder* | *Folder* | *No* | *Jim McBIM* | *Once* |
| *Project Mg’mt Software www.\*\*\*\*\*.com* |  |  |  |  |  |
|  |  |  |  |  |  |

## VDC Training:

If VDC training will be required, identify schedule, attendees, instructor.

## Integration Management

Identify tools and techniques that will be used to encourage team collaboration and BIM sharing including how Integration Sessions will be used to coordinate, share, and update model data. In this section the team should agree to model integration methodology: set-up, objectives, facilitation, stakeholder, roles, frequency, location, resolution. Refer to the Websites section: [Integration Reviews](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/tutorials/leading-an-integration-session)

# SECTION F: QUALITY CONTROL

## Overall Strategy for Quality Control:

Describe the strategy to control the quality of the model.

## Quality Control Checks:

The following checks should be performed to assure quality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Checks | Definition | Responsible Party | Software Program(s) | Frequency  |
| *VISUAL CHECK* | *Verify that there are no unintended model components and the design intent has been followed* |  |  |  |
| *INTERFERENCE CHECK* | *Detect problems in the model where two building components are clashing including soft and hard* |  |  |  |
| *STANDARDS CHECK* | *Verify that the BIM and AEC CADD Standard have been followed (fonts, dimensions, line styles, levels/layers, model partitioning, common coordinate system and model origin, and any required object enablers)* |  |  |  |
| *BIM GUIDE CHECK* | *Verify that the GSA BIM Guides have been followed (Spatial Program Validation, Circulation and Security Validation, etc.)* |  |  |  |
| *ENERGY STRATEGY CHECK* | *Verify that energy and modeling strategies (including how energy savings predictions will be documented so that it can be matched against actual energy savings). This includes creating the energy baseline.* |  |  |  |
| *4D SCHEDULING CHECK* | *Describe the utilization of 4D scheduling and construction sequencing technology* |  |  |  |
| *MODEL INTEGRITY CHECKS* | *Describe the QC validation process used to ensure that the Project Facility Data set has no undefined, incorrectly defined or duplicated elements and the reporting process on non-compliant elements and corrective action plans* |  |  |  |
|  |  |  |  |  |

## Required Quality Reports:

[GSA Region 5 BIM Standards](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/) require that a [Quality Report](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/documents/quality-report) be issued with every formal data submittal to GSA. The team will ensure that these requirements are met.

# SECTION G: TECHNOLOGICAL INFRASTRUCTURE NEEDS

## ***Software***:

*List software used to deliver BIM. (On larger projects the team should consider completing a more comprehensive* [Data Format Matrix](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/downloads/documents) *).*

|  |  |  |  |
| --- | --- | --- | --- |
| BIM Use | Discipline (if applicable) | Software | Version |
| Design Authoring | Arch | XYZ Design Application | Ver X.X (Year) |
|  |  |  |  |
|  |  |  |  |

## Computers / Hardware:

Understand hardware specification becomes valuable once information begins to be shared between several disciplines or organizations. It also becomes useful to confirm that the downstream hardware is not less powerful than the hardware used to create the information. In order to ensure that this does not happen, choose the hardware that is in the highest demand and most appropriate for the majority of BIM Uses.

|  |  |  |  |
| --- | --- | --- | --- |
| ***BIM USE*** | ***HARDWARE***  | ***OWNER OF HARDWARE*** | ***SPECIFICATIONS*** |
| *DESIGN AUTHORING* | *XXX COMPUTER SYSTEM* | *ARCHITECT X* | ***PROCESSOR, OPERATING SYSTEM, MEMORY STORAGE, GRAPHICS, NETWORK CARD, ETC.*** |
|  |  |  |  |
|  |  |  |  |

## Modeling Content and Reference Information

Identify items such as families, workspaces, and databases.

|  |  |  |  |
| --- | --- | --- | --- |
| ***BIM USE*** | ***DISCIPLINE******(if applicable)*** | ***MODELING CONTENT /******REFERENCE INFORMATION*** | ***VERSION*** |
| *DESIGN AUTHORING* | *ARCH* | *XYZ APP FAMILIES* | *VER. X.X. (YEAR)* |
| *ESTIMATING* | *CONTRACTOR* | *PROPRIETARY DATABASE* | *VER. X.X (YEAR)* |
|  |  |  |  |

#

# SECTION H: MODEL STRUCTURE

## File Naming Structure:

The team projects that the following master files will be generated during the project. All names of master files, and all other data, will conform to the [GSA Region 5 BIM Standards](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/standards/naming-standards).

|  |
| --- |
| ***FILE NAMES*** |
| *ARCHITECTURAL MODEL* | *ARCH-*  |
| *CIVIL MODEL* | *CIVIL-*  |
| *MECHANICAL MODEL* | *MECH-* |
| *PLUMBING MODEL* | *PLUMB-* |
| *ELECTRICAL MODEL* | *ELEC-* |
| *STRUCTURAL MODEL* | *STRUCT-* |
| *ENERGY MODEL* | *ENERGY-* |
| *CONSTRUCTION MODEL* | *CONST-* |
| *COORDINATION MODEL* | *COORD-* |

## Model Structure:

Describe and diagram how the Model is separated, e.g., by building, by floors, by zone, by areas, and/or discipline. Ensure that this structure conforms to GSA Region 5 BIM Standards. In particular ensure that it conforms to; [File Structure and Organization](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/standards/file-structure-and-organization), [Grouping and Relationships](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/standards/grouping-and-relationships), the [Parametric Components](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/standards/parametric-components) standards.

## Measurement and Coordinate Systems:

Describe the measurement system (Imperial or Metric) and coordinate system (geo-referenced) used. Ensure that this conforms to GSA Region 5 BIM Standards. In particular ensure that it conforms to the [File Structure and Organization](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/standards/file-structure-and-organization) standard.

## BIM and CAD Standards:

Identify items such as the BIM and CAD standards, content reference information, and the version of IFC, etc.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Standard*** | ***Version*** | ***BIM Uses Applicable*** | ***Organizations Applicable*** |
| [GSA Region 5 Standards](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/) | 4.0 | All | All project participants |
| [GSA National BIM Guides](http://gsa.gov/portal/content/105075) | Varies | All | All project participants |
| [*GSA PBS CAD Standard*](http://www.gsa.gov/portal/content/104697) | March 05, 2012 | 2D CAD Exports | All project participants |
| *Additional Standards* |  |  |  |

## Model Progression Matrix

The GSA Region 5 Standard [Model Progression Matrix](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/documents/level-of-detail) is attached to this document. This document is based on the AIA E202 document.

# SECTION I: PROJECT DELIVERABLES

GSA Region 5 BIM Standards require very specific BIM deliverables. The team should familiarize themselves with these requirements before any BIM work is commenced.

Item covered by the Standard Include:

* COBie / IFC data requirements
* Native format
* Minimum data attributes
* Use of GSA Region 5 Standard folder structure
* Collection of extended data into the Standard folder structure
* Specific quality reports for model data and laser scan data
* Specific versions of software
* Specific model structure requirements
* Specific use of URLs within the BIM data

**These standards must be followed by all team members.**

|  |  |  |  |
| --- | --- | --- | --- |
| *Project Stage / Milestone* | *Description of Delivery* | *Estimated Delivery Date* | *Project Stakeholders Involved* |
| *Design Stage* |
| Design Model | Design concept phaseLOD 100-200 | Not included in project scope | N/A | N/A |
| Design development phaseLOD 200-300 | Preliminary submittal of IFC, COBie, Revit, and Navisworks data for review by GSA. | XX/XX/XXXX | Architect and Mechanical Engineers |
| Construction Documents PhaseLOD 300 Complete | Formal submittal of construction documents and BIM data. All 2D and 3D building data produed on the project in both native format, IFC, and COBie spreadsheets. All design level attribute data will be complete.  | XX/XX/XXXX | All design team members |
| Construction Stage |
| As-built Model | Construction delivery PhaseLOD 400 Complete | Several progress sets of Native format, IFC, and COBie spreadsheets will be provided over the development of the project. | XX/XX/XXXX XX/XX/XXXXXX/XX/XXXX | Construction team |
| Project close-out phaseLOD 500 Complete | Final as-built and record data submittal. This will include all data required by the Data Submittal Standards as well any extended data agreed to within this BEP. | XX/XX/XXXX | All construction and design team |

In this section, list the BIM deliverables which are in excess of the [GSA Region 5 Data Submittal Standards](https://sites.google.com/a/gsa.gov/gsa-region-5-bim-standards/standards/data-submittal-standards) for the project and the format in which the information will be delivered.

# SECTION J: OPTIONAL ATTACHMENTS

Depending on the size and BIM needs of each project various optional attachments may be included as part of the BEP. Many different documents exist within the industry and the team is encouraged to seek out and use those documents which enhance the projects BEP.

## BIM USE SELECTION WORKSHEET

## BIM PROCESS DESIGN MAP(S)

*Large, complex projects may benefit from a team developed process map to clarify BIM workflows. If a process map has been developed include as Attachment.*

## INFORMATION EXCHANGE WORKSHEET(S)

*Large, complex projects may benefit from a team developed, spreadsheet oriented, element by element information exchange. If such a spreadsheet has been developed, include as Attachment.*

## MODEL DEFINITION WORKSHEET

## MODELING PROTCOL EXHIBIT [FROM SECTION G]

## BIM AND FACILITY DATA REQUIREMENTS [FROM SECTION H]

# Signature Page

Team members agree to use BIM to enable improved workflows for subject project. Model data will be authored, maintained, shared, and documented as outlined in this BIM Project Execution Plan.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Team Member | Company | Name | Signature | Date |
| Owner | GSA |  |   |  |
|  Project Manager |  |  |   |  |
|  Property Manager |  |  |   |  |
|  Facility Manager |  |  |   |  |
| Architect |  |  |   |  |
| Engr. Consultant |  |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |
| Modify list as required |  |  |   |  |