

## Project Start Date

CD Set    Bidding Phase    Preconstruction Phase    Construction Phase    End Point

Construction Manager

### Architect

#### DAS BIM Guidelines:

- Develop BIM Execution Plan (BIMxP)
- Deploy project design software and discipline specific tools
- Develop 2D and 3D design model (SD, DD & CD)
- Generate Construction Schedule
- Incorporate relevant change order sketches (SK's) into the model

#### Role of United-BIM:

- Develop BIM Execution Plan (BIMxP)
- Develop BIM360 Portal
- Architectural Modeling Services- SD, DD & CD
- Architectural BIM Services (LOD 100-500)
- Design Coordination

### Engineering Consultants

#### DAS BIM Guidelines:

- Follow the BIM Guidelines and model according to BIM Execution Plan (BIMxP)
- Clash Coordination with interdisciplinary trades during SD, DD, and CD stages

#### Role of United-BIM:

- MEP, FP & Structural modeling
- Coordinate the interdisciplinary trades and eliminate clashes
- In-house team of engineers who understand the intricacies and model the trades accordingly

### Construction Manager

#### DAS BIM Guidelines:

- Generate Qty. take off
- Update model to LOD 200-300
- Clash Resolution
- Virtual scheduling of construction activities

#### Role of United-BIM:

- Generate BOQs and BOMs for cost estimation
- Identify the interdisciplinary clashes
- We provide a 90% coordinated BIM model by resolving the clashes
- 4D BIM model of construction sequences, schedules, and simulations

### Trade Contractors

#### DAS BIM Guidelines:

- Develop LOD 400 models
- Clash Resolution with trade meetings
- Develop clash-free model
- Attend Coordination Meetings

#### Role of United-BIM:

- Develop LOD 400 model from the shop drawings
- Interdisciplinary clash detection
- Clash Coordination
- Conduct coordination meetings

### Construction Manager

#### DAS BIM Guidelines:

- Record on-going changes and update the model
- 4D Construction Scheduling video presentations
- Prepare As-built model

#### Role of United-BIM:

- Develop 4D Construction Scheduling video presentation
- We incorporate Record Drawings into the model with site verification
- Develop As-built model

Closeout