

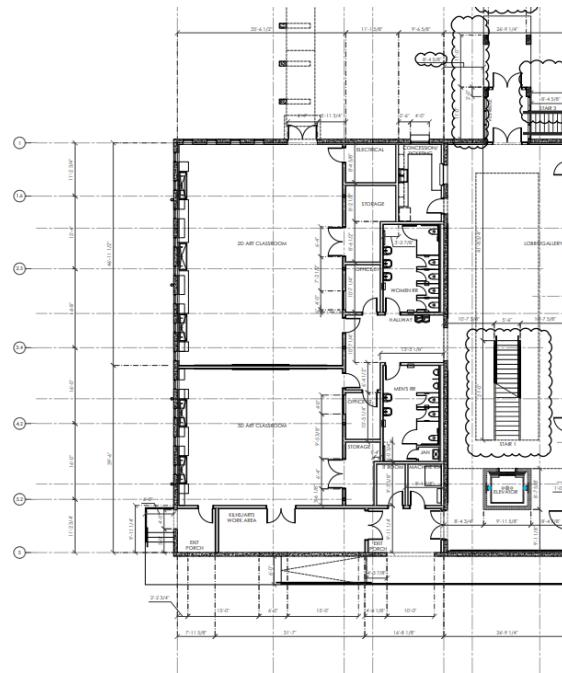


Institutional - Architectural BIM Modeling for Institutional Cultural Facility

(Architecture BIM Modeling & Shop drawings, BIM & VDC Coordination Services)

CASE STUDY





Client : Consultant

Team Size : 3 No.s (BIM Engineer & BIM Coordinator)

Disciplines : Architecture

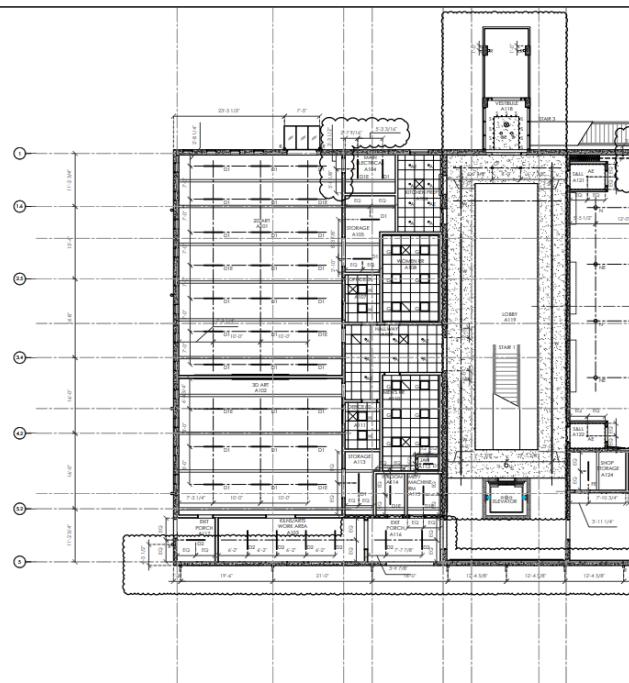
Duration : 4 Week

Scale : 43,800 Sq. Ft.

Software : Autodesk Revit

Type : Industrial

Location : California, USA



Project Overview

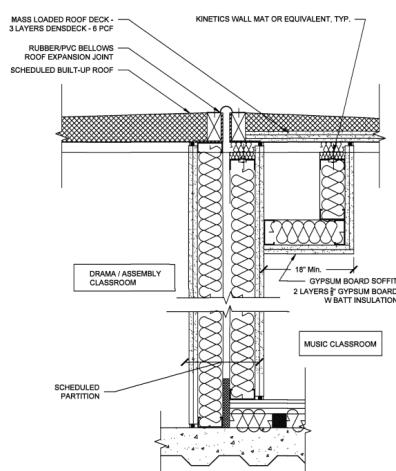
Techture delivered LOD 300–350 Architectural BIM modeling for a 43,800 sq. ft. Performing Arts Center using Autodesk Revit. The model was developed directly from client-issued Construction Documents, which served as the final and authoritative input set. Architectural elements and basic interior design components were modeled to support coordination and documentation needs. The BIM model provided an accurate digital representation suitable for downstream coordination and design reference.

Scope & Deliverables

- Development of Architectural Revit model at LOD 300/350 based on issued CD drawings
- Modeling of architectural elements, including walls, floors, roofs, ceilings, doors, and windows
- Inclusion of basic interior design elements for representation (fixed furniture, electrical fixtures, etc.)
- Use of standard Revit families for architectural and interior components
- One-time model development based strictly on client-provided inputs

Challenges

- Translating complex performance-space geometries into a coordinated BIM environment
- Maintaining LOD 300/350 consistency across architectural and interior elements
- Representing interior fixtures accurately without manufacturer-specific data
- Managing assumptions where CD information required clarification



Techture Approach

- Validated and reviewed the latest CD drawing set prior to modeling initiation
- Established Revit model standards aligned with LOD 300/350 requirements
- Modeled architectural geometry with attention to spatial accuracy and constructability intent
- Integrated basic ID elements solely for visual and coordination reference
- Maintained continuous client communication for resolving missing or unclear inputs

Benefits

- Accurate Architectural BIM model aligned with issued CD documentation
- Improved design clarity for coordination and visualization
- Reduced rework through early identification of drawing inconsistencies
- Standardized, clean Revit model suitable for future coordination stages
- Reliable digital asset for design validation and reference

