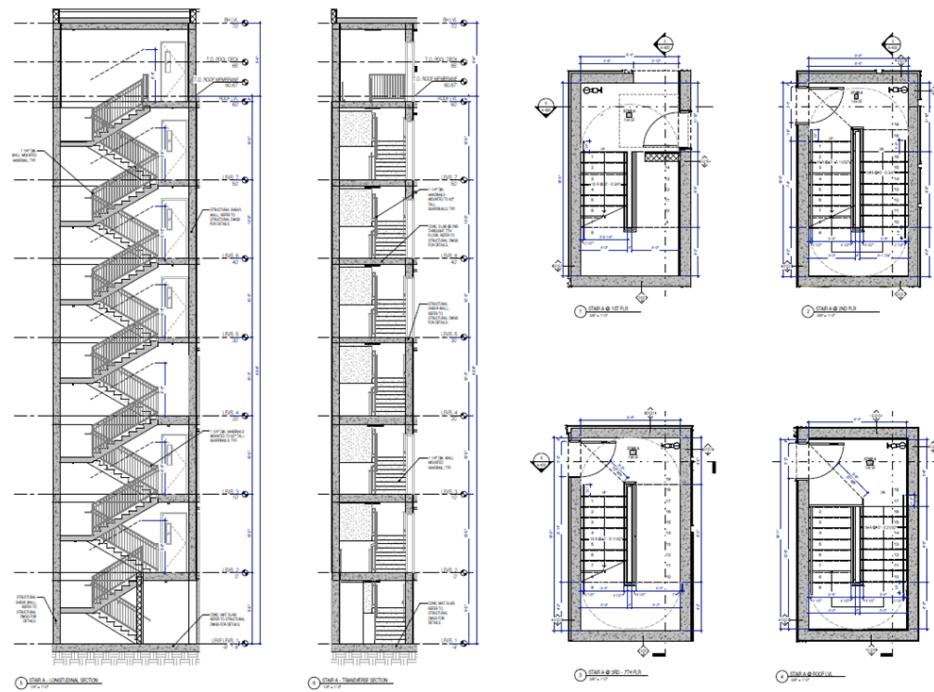


Architectural BIM Services for a Large-Scale Development

(Architectural Modeling & Documentation, BIM & VDC Coordination Services)

CASE STUDY



Client : Architect

Team Size : 3 Nos. (BIM Architects & BIM Coordinator)

Disciplines : Architecture

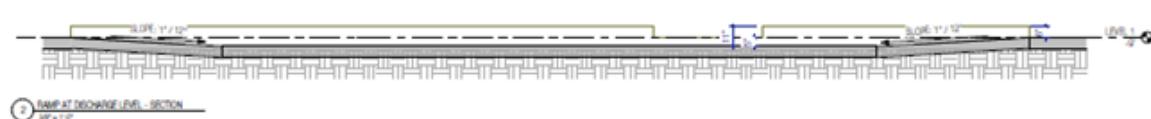
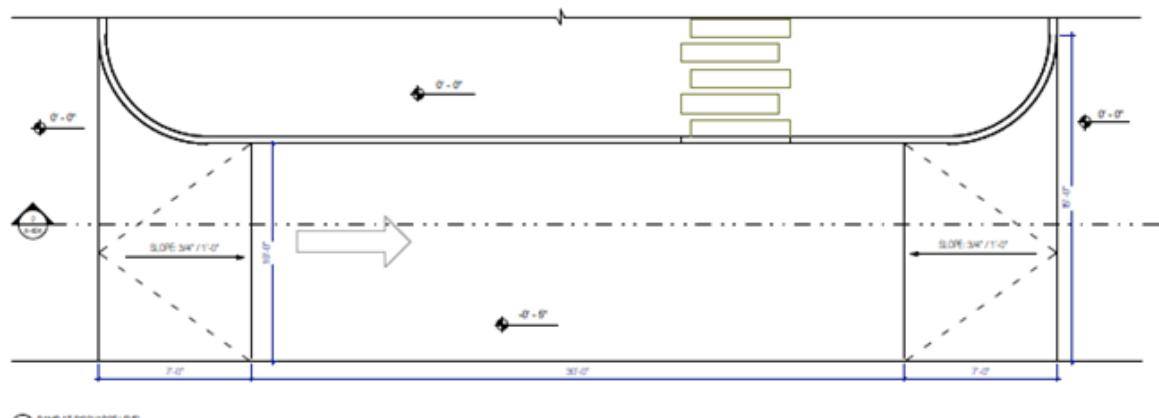
Duration : 3 Months

Scale : 74,000 Sq. Ft.

Software : Autodesk Revit & Autodesk Naviswork

Type : Residential+Commercial

Location : New York, USA



Project Overview

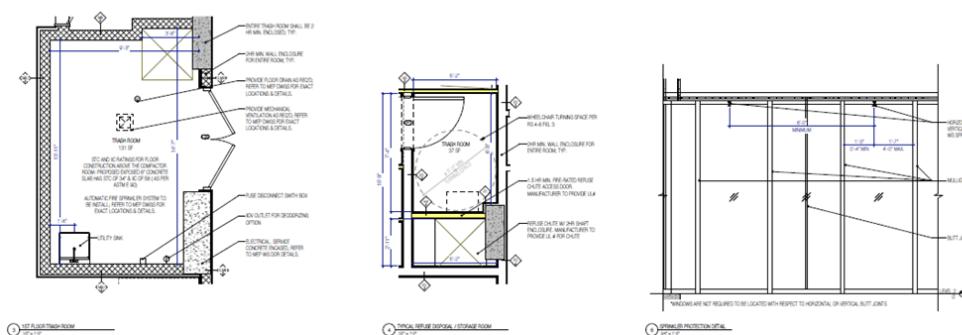
The project involved the development of an LOD 300 architectural BIM model and detailed construction documentation for a large-scale mixed-use development with an approximate built-up area of 74,000+ sq.ft. The objective was to convert early-stage design inputs into a coordinated and standardized BIM model and drawing set to support design development and construction requirements. The scope covered interior spaces, public areas, and typical details, ensuring consistency with established project standards while adhering to defined timelines.

Scope & Deliverables

- Development of architectural BIM models from Concept Design through Schematic Design (SD) and Design Development (DD) stages
- Progressive refinement of models to LOD 300, incorporating spatial layouts, key architectural elements, and design intent
- Preparation of coordinated interior elevations, floor finish plans, reflected ceiling plans, and typical architectural details at DD stage
- Extraction of structured and standardized 2D drawing sets to support downstream coordination and construction documentation

Challenges

- Translating evolving concept-level design inputs into coordinated SD and DD BIM models
- Managing frequent design refinements while maintaining model integrity and drawing consistency
- Ensuring alignment between design intent, modeling standards, and documentation requirements across phases
- Controlling scope and iterations within defined design-stage boundaries



Techture Approach

- Adopted a phase-wise BIM execution strategy, aligning deliverables with Concept, SD, and DD milestones
- Used standardized modeling protocols, families, and documentation templates to ensure uniformity across design stages
- Implemented regular internal QA/QC checks to validate model accuracy and drawing completeness at each phase
- Maintained proactive communication to identify missing inputs early and minimize downstream rework

Benefits

- Seamless transition from conceptual design to detailed DD-level BIM models
- Enhanced design coordination and visualization through accurate, phase-aligned BIM outputs
- Reduced design conflicts and rework during later project stages
- Reliable, scalable BIM support enabling faster decision-making and smoother construction readiness

