



ADONIS DESIGNS  
GLOBAL RESOURCE PARTNERS

BIM Initiative



**OUR FOCUS**

**Improve the profitability of projects and  
Speedy delivery of buildings to the market.**



# WHAT IS BIM?

**An intelligent 3D virtual building database, with all disciplines coordinated, created, used and maintained, throughout the lifecycle of a building project.**





## WHY BIM...

# ONE DIGITAL MODEL, ONE DATA SOURCE

- All team members use same digital model
- Greater accuracy in cost, scheduling projections
- Analyze cost of design changes, test alternatives
- Detect conflicts before constructing
- Proactively manage change
- Create marketing graphics and animations
- Manage facility data—for the building lifecycle
- Speed time to market, by leveraging prototypical models on other, similar buildings

# BIM PROVIDES:

## ■ Design Coordination

- End-to-end management of all consultants (architects, engineers and other building professionals)

## ■ Design Localization

- Preserves architect's design intent throughout the project, while adapting to local construction conditions and municipal regulations

## ■ Design Documentation

- High quality, detailed documentation informed by international standards

## ■ Building Information Modeling

- Eliminate redundancies and errors, streamline communication, manage change, detect conflicts before you build, and more.



# GIVING YOU A COMPETITIVE EDGE

- We can...
  - Manage all consultants and phases of your project
  - Lower your total cost of design and design management
  - Infuse the competitive advantages of BIM into your firm
- ...So you can
  - Get projects up and running faster
  - Deliver buildings on schedule with greater ease
  - Mitigate construction time and cost overruns

## **BOTTOMLINE:**

**Increase Your Revenue and Profits**



## BIM Services – Adonis Industry Solution

- Design process leadership
- Global experience, Local expertise
- Mitigates cost and time overruns
- Bridges the gap:
  - Local management of design process
  - Faster localization of international designs
  - Documentation at international standards
  - Technical innovation
  - BIM development and management

**BOTTOMLINE:**

**You'll Save Money, Deliver Better Buildings Faster**



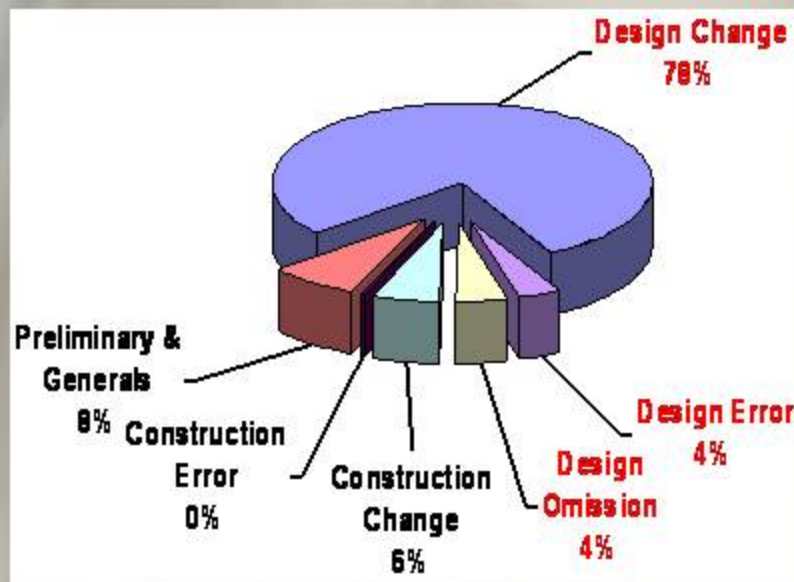
# CHALLENGES

- Time, Cost & Quality
  - Govt. sector reports overruns in excess of 62%
  - Industry incurs at least 15% - 20% cost inefficiency
- Consultant performance issues
  - Coordination, timeliness, incomplete information
  - Lack of international expertise
- Slow adoption of technology-enhanced design processes
- Gap between local construction realities and international design practices



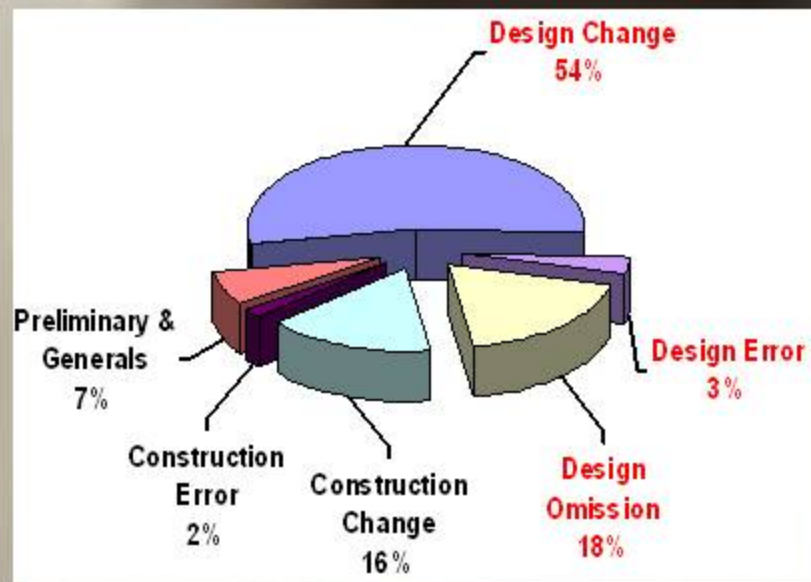
# CASE STUDY – COST OVERRUNS

## Mixed Use Project



Design Flaws 86%  
Construction Flaws 14%

## Residential Project



Design Flaws 75%  
Construction Flaws 25%

***About 80% of all cost escalations during construction are attributed to design***

# ADVANTAGES FOR OWNERS/DEVELOPERS

- Reduce Inefficiencies, Save Cost, Improve Profit Margins using:
  - **Integrated Project Delivery (IPD)**
  - **Construction Simulation and Sequencing**
  - **Fully Coordinated Model-Clash Detection**
  - **Information Management**
  - **Accurate Material Take-off & Costing Analysis**
  - **Change Management**
  - **Asset & Facilities Management**



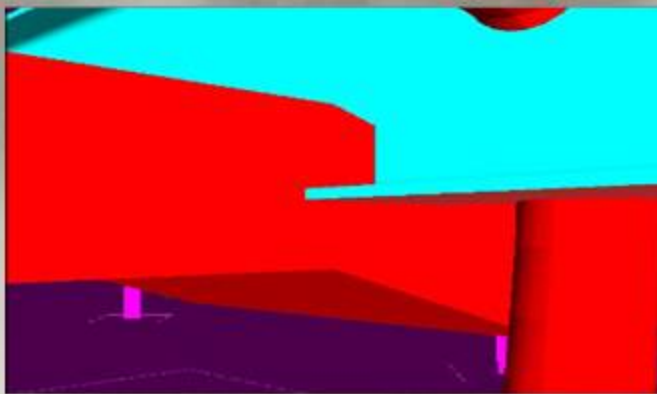






# CLASH DETECTION AND RECTIFICATION

Clashes Identified "virtually" and resolved collaboratively



# HIGH RISE MIXED-USE [BIM]

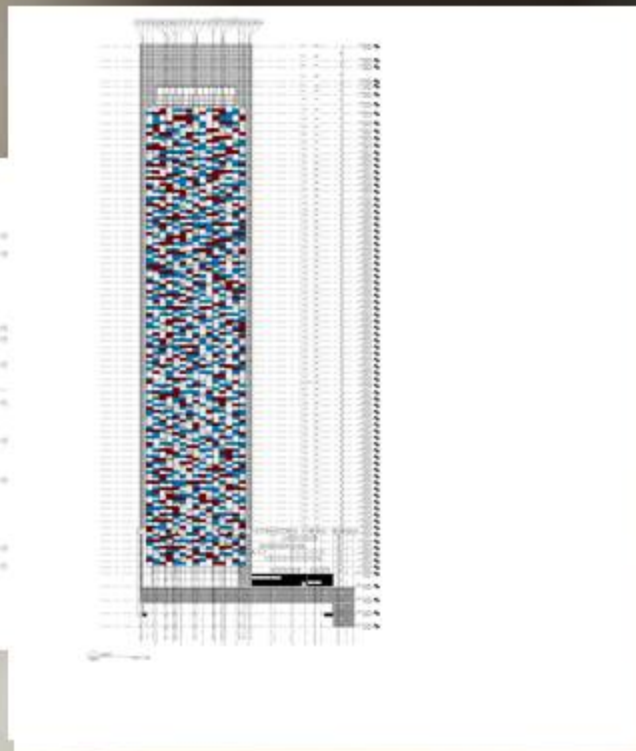
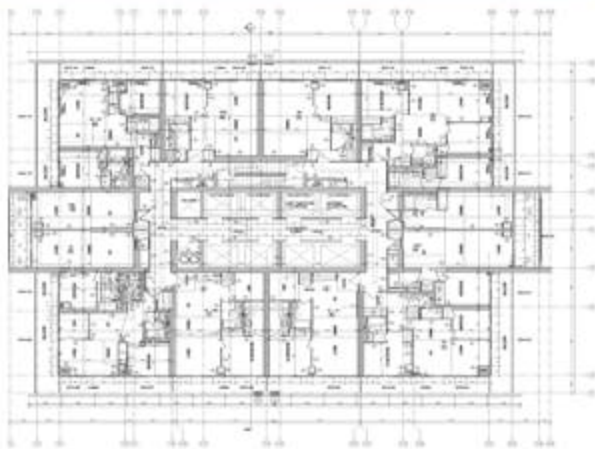
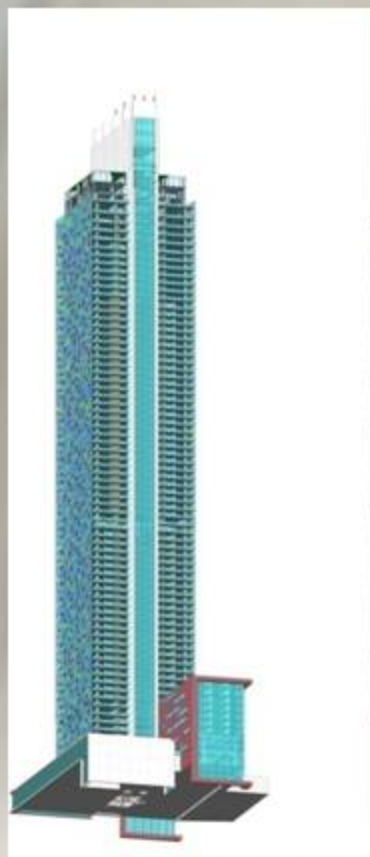
## Scope of Work

- Structural model
- Building core
- Exterior shell, Architectural Model
- RCP
- Bath room and Kitchen Fixtures



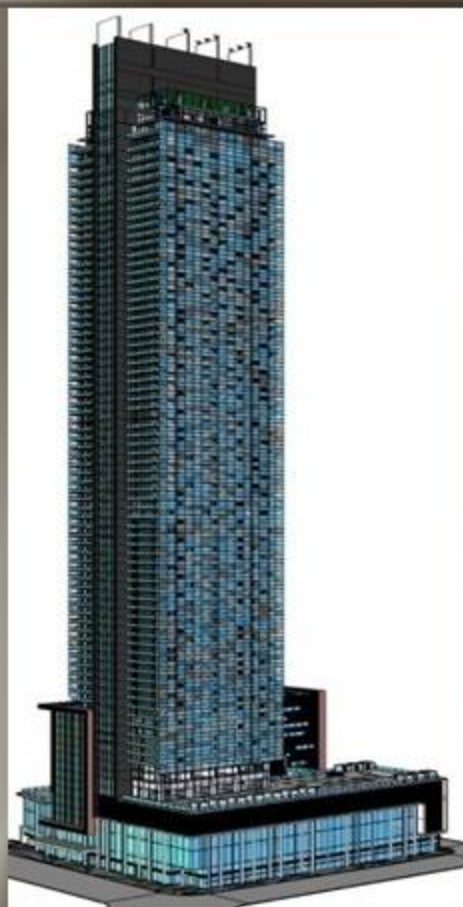


# HIGH RISE MIXED-USE [BIM]





# HIGH RISE MIXED-USE [BIM]





Aero Centre Project  
Toronto, Canada

Revit Modeling & Documentation

# AERO CENTRE BUILDING [BIM]

PROJECT LOCATION- Toronto (CANADA)





# BRIEF

## Project Brief

- **Building Type: Commercial**
- **Major Occupancies**
  - Level 1-3 (Above Grade)
  - Level 4-8 Office
- **Number of Storeys: Above Grade—8**
- **Building Area: 9206sq.mtr**  
**Scope of Work**
- **Building Ht: 30.8mtr**
  - The ACV Aerospace Centre is DD to CD design
  - The design is intended to be modelled as per requirements for LEEDS silver accreditation

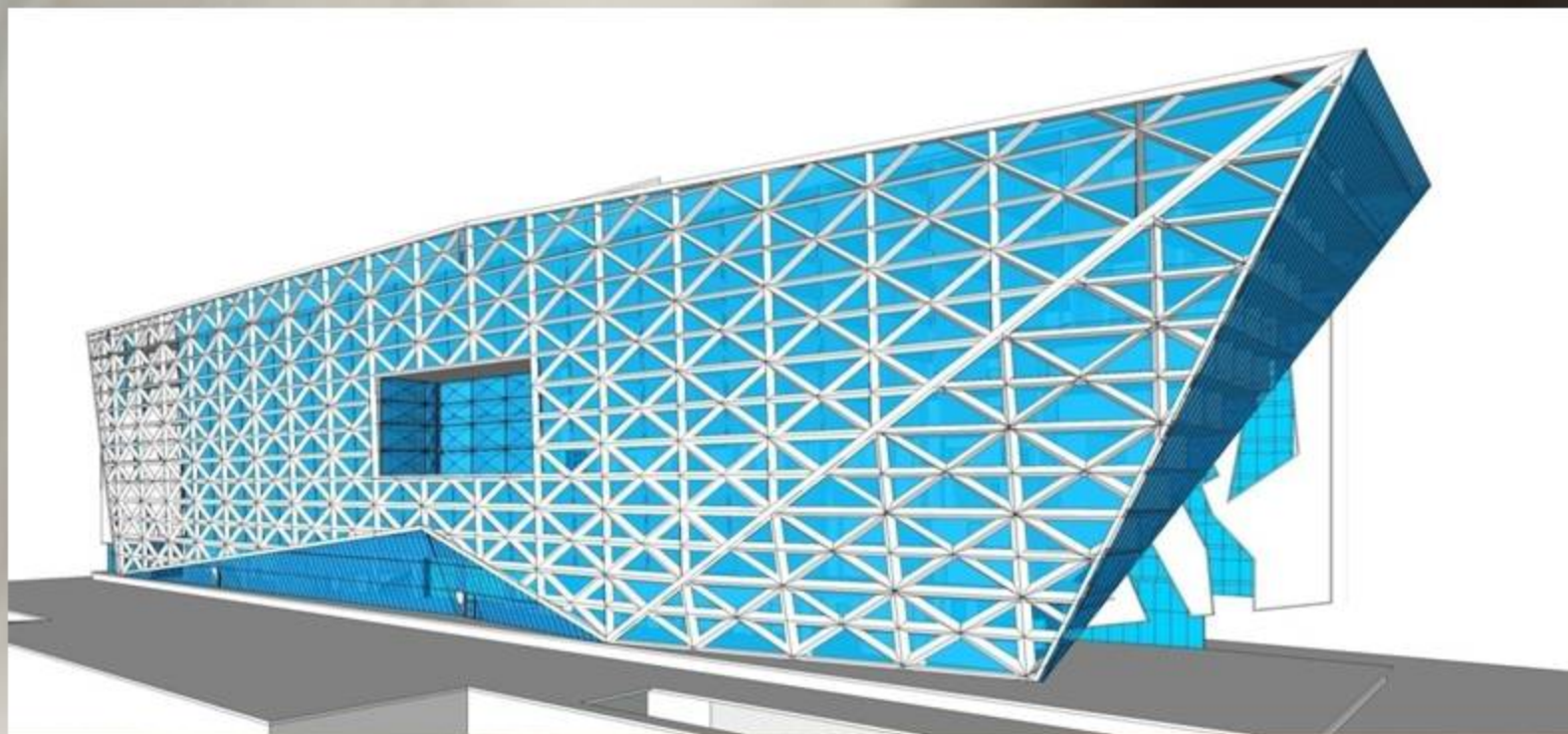




4 Star Hotel Project  
Abu Dhabi, U.A.E.

Revit Modeling & Documentation

# Four Star Hotel

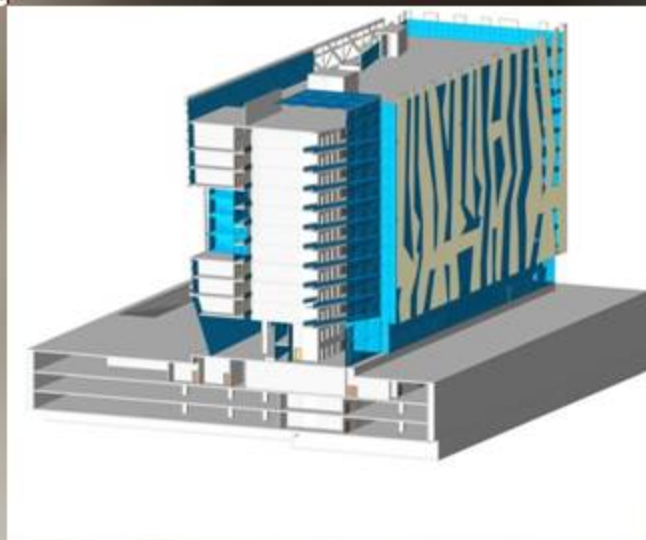




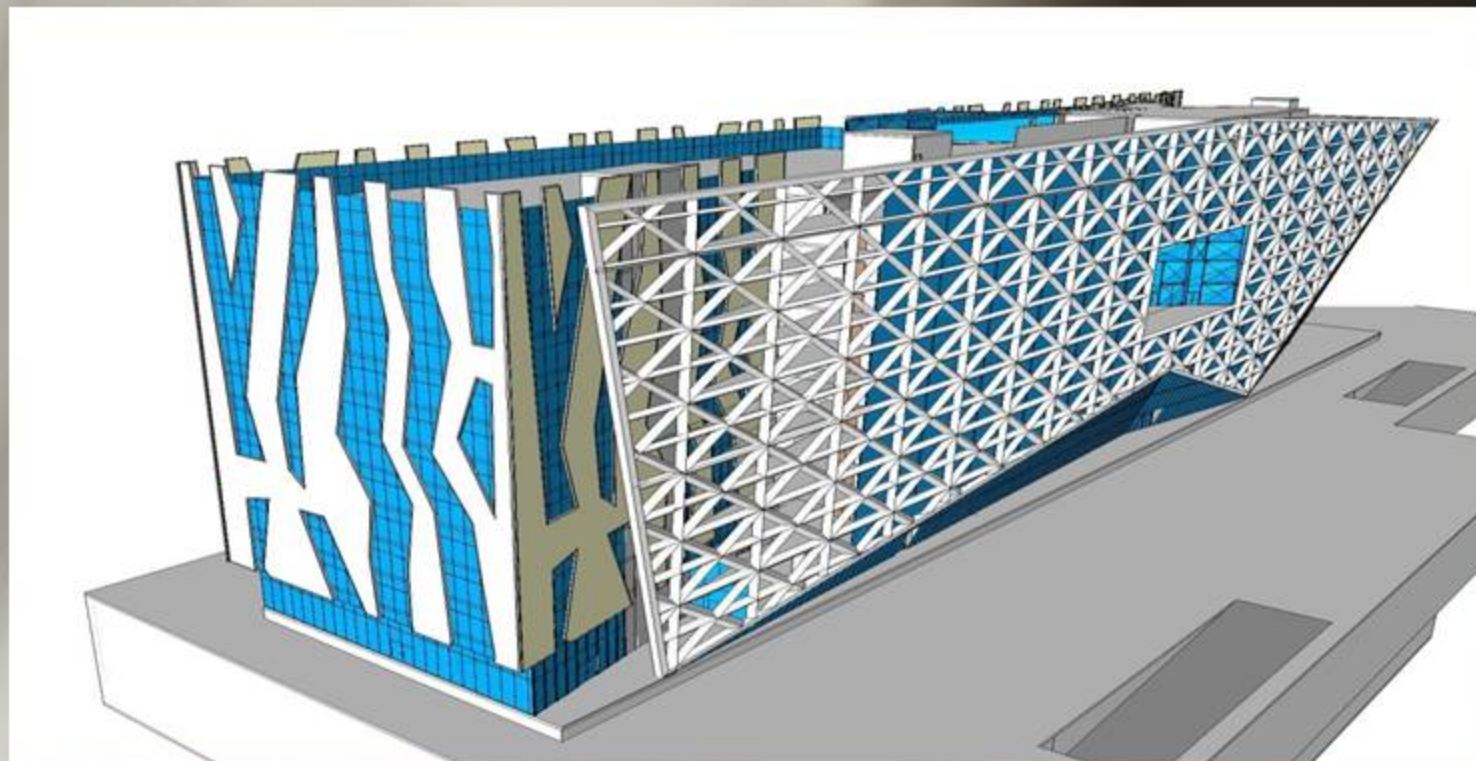
# BRIEF

## Project Brief

- **Building Type: Four Star Hotel/Office**
- **Major Occupancies**
  - Level 1-4(Below Grade)
  - Level 1-12 ( Hotel/Office)
- **Number of Storeys: Above Grade-12**
- **Building Area: 14000 sq.mtr**
- **Building Ht: 48.0 Metres.**



# Model View





University Building  
L.A., CA

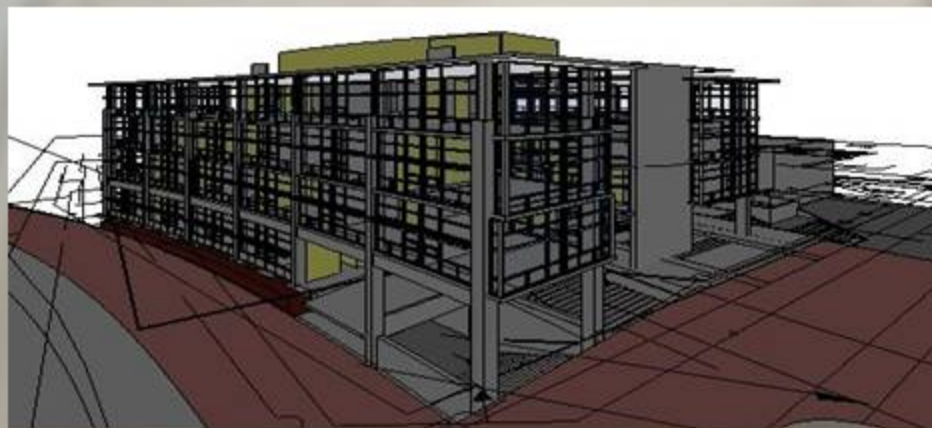
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# Computer Lab. Building




# Computer Lab. Building



# Computer Lab. Building







K-12 School  
Denver, CO

# Revit Modeling & Documentation

# School Building



# School Building

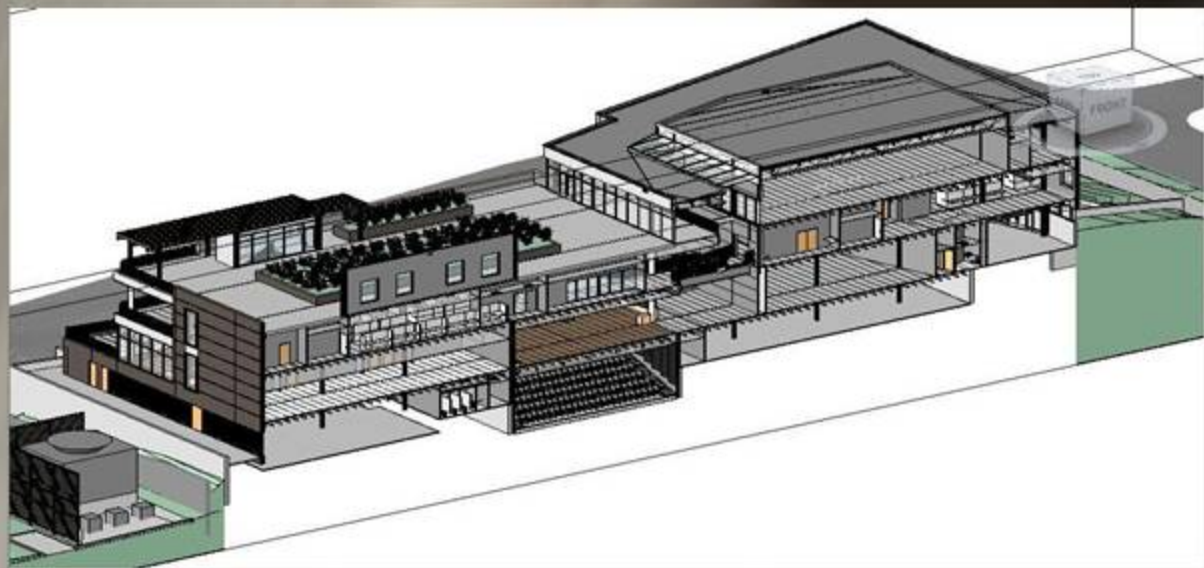
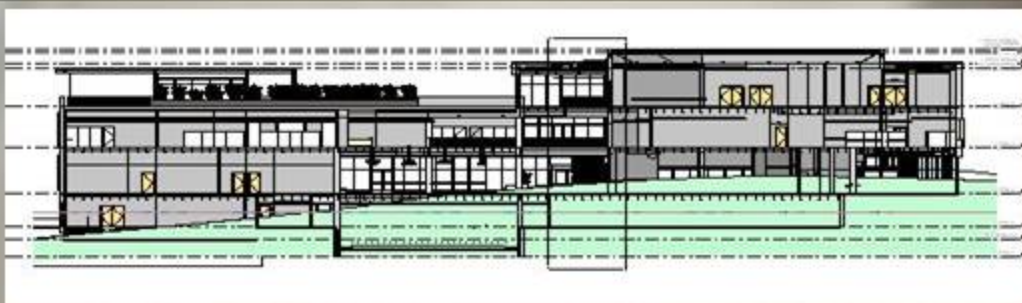




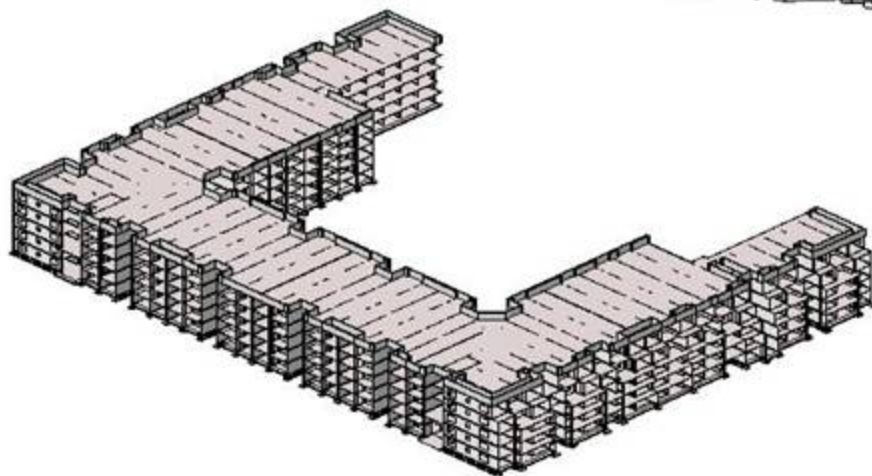
# School Building



# School Building



# Residential Development





# Residential Development





Distribution Centre  
Detroit, MI

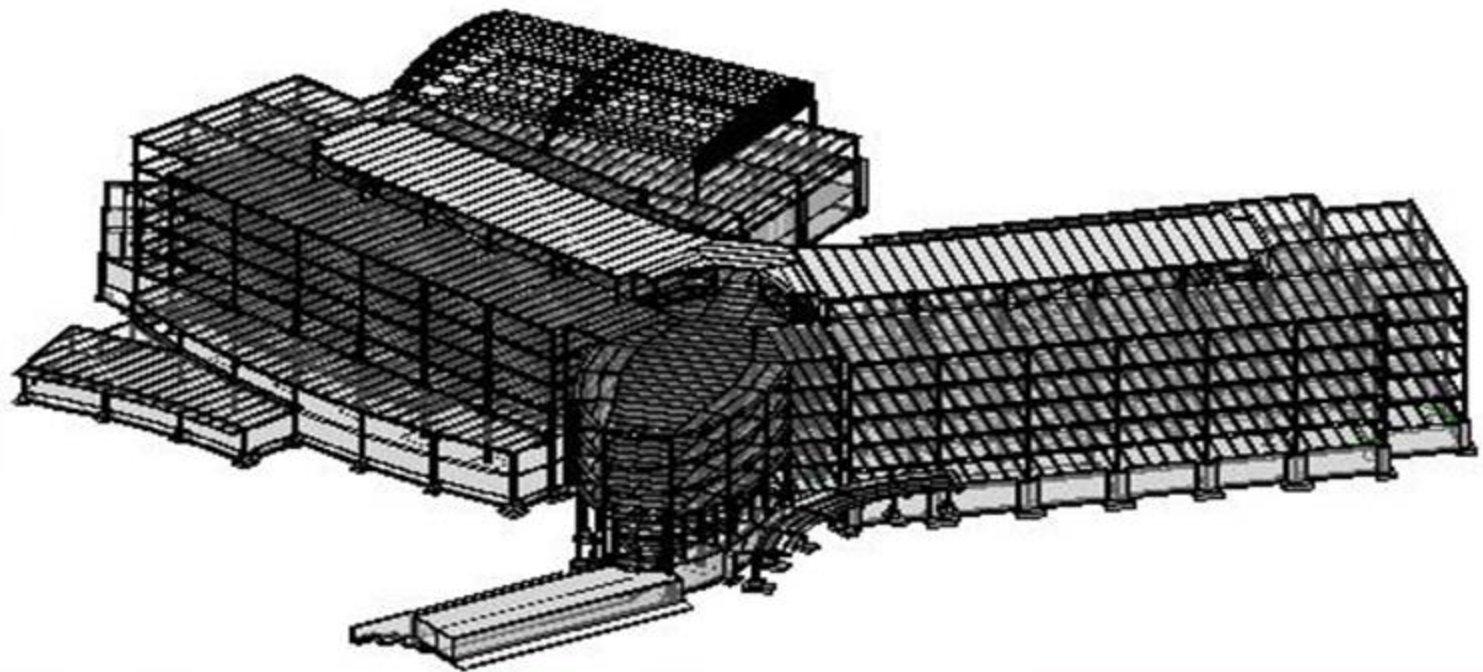
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# Distribution Centre





# Mix-Use Development





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Thank You