

CLARKDIETRICH ENGINEERING / BIM SERVICES

BIM PROJECT IMPLEMENTATION



**STRONGER
THAN STEEL.™**

**TURN TO CLARKDIETRICH ENGINEERING / BIM SERVICES
FOR YOUR NEXT SHOP DRAWINGS OR BIM PROJECT.**

CLARKDIETRICH ENGINEERING / BIM SERVICES OFFERS:

- * *Multiple Engineering Offices Nationwide*
- * *Over 70 Engineers and Technicians*
- * *QuickTurn™ Shop Drawings*
- * *Technical Services*
- * *BIM Services*
- * *Assistance with Clash Detection*
- * *Collaboration with Trades*
- * *Framing Panel Elevations*

OVERVIEW

CDES offers BIM coordination and engineering design services for cold-formed steel framing to architects, general contractors and subcontractors. BIM coordination includes assisting with clash avoidance, collaborating with other trades, creating 3D visuals for cold-formed steel framing, providing detailed documentation/shop drawings that include wall elevations, sections and plan views, and other customized BIM services.

A BIM TEAM WITH A STRONG PROJECT RESUME

Our engineering team has developed hundreds of BIM coordinated models for our clients. We offer BIM Services for all Levels of Development and at all phases of the project. We have proven success in Design Assist/IPD, traditional construction phase BIM, consulting for coordination, and integrating a full engineering package that includes calculations and shop drawings directly from the BIM model. We offer the industry's most knowledgeable, trusted team of experts to support BIM questions and projects.

When entrusting CDES to provide your BIM services, you will get:

- A trusted source and leader in CFS BIM services
- An experienced CFS specialty engineer to advise on framing
- Best practice coordination for product selection
- Assistance in exploring prefabrication options
- A focus on economical installation and finishes
- Detailed modeling for walls, floors, ceilings, and roof structures
- Integrated engineering solutions during the design phase
- Assistance with clash detection



CDES is an extension of your team focused on the success of your project. Whether it is CFS design for the owner, design and Engineer of Record services for the architect, or construction phase coordination and labor saving solutions for the contractor—ClarkDietrich Engineering Services has the expertise to deliver.

Explore some of our cold-formed steel BIM projects in our Project Gallery at clarkdietrich.com/BIM and you will quickly see how we can convert our experience into your success.



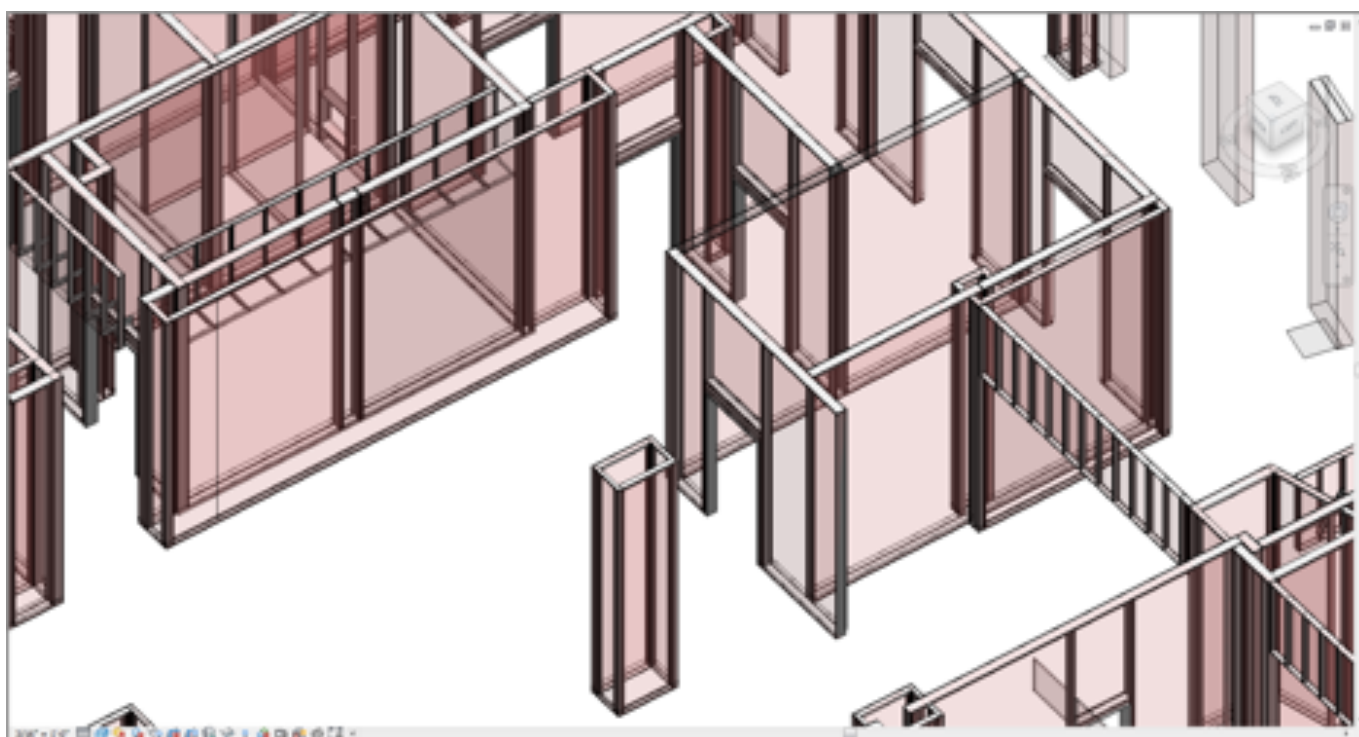
BIM PROJECT IMPLEMENTATION

The BIM Package is based on the projects Level of Development (LOD) specifications or customers requirements if they want to see more detail.

More detailed information on BIM LOD can be found at bimforum.org/LOD.

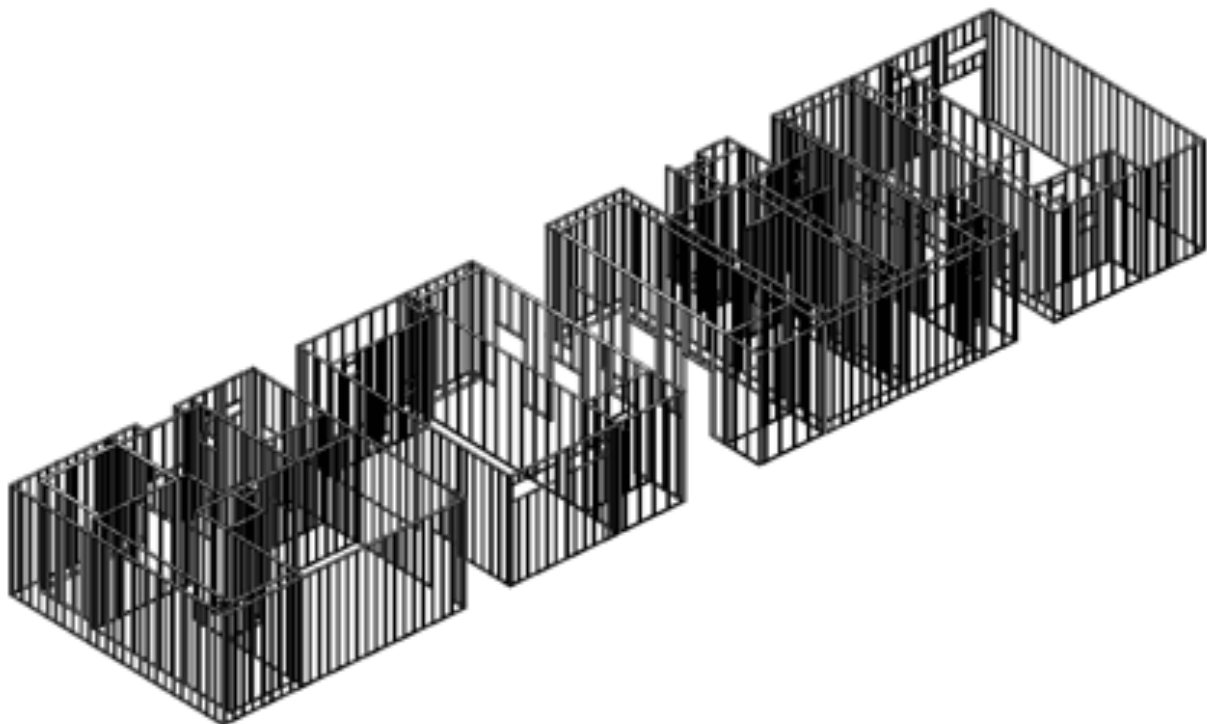
BIM PROJECT PHASE 1

First step in our design approach would be to model what we consider to be critical framing. This would include the corners, door and window jambs. These are critical as they need to extend to bottom of deck. If they become interrupted, they would incur additional cost within the project by having to add in box headers above the openings.



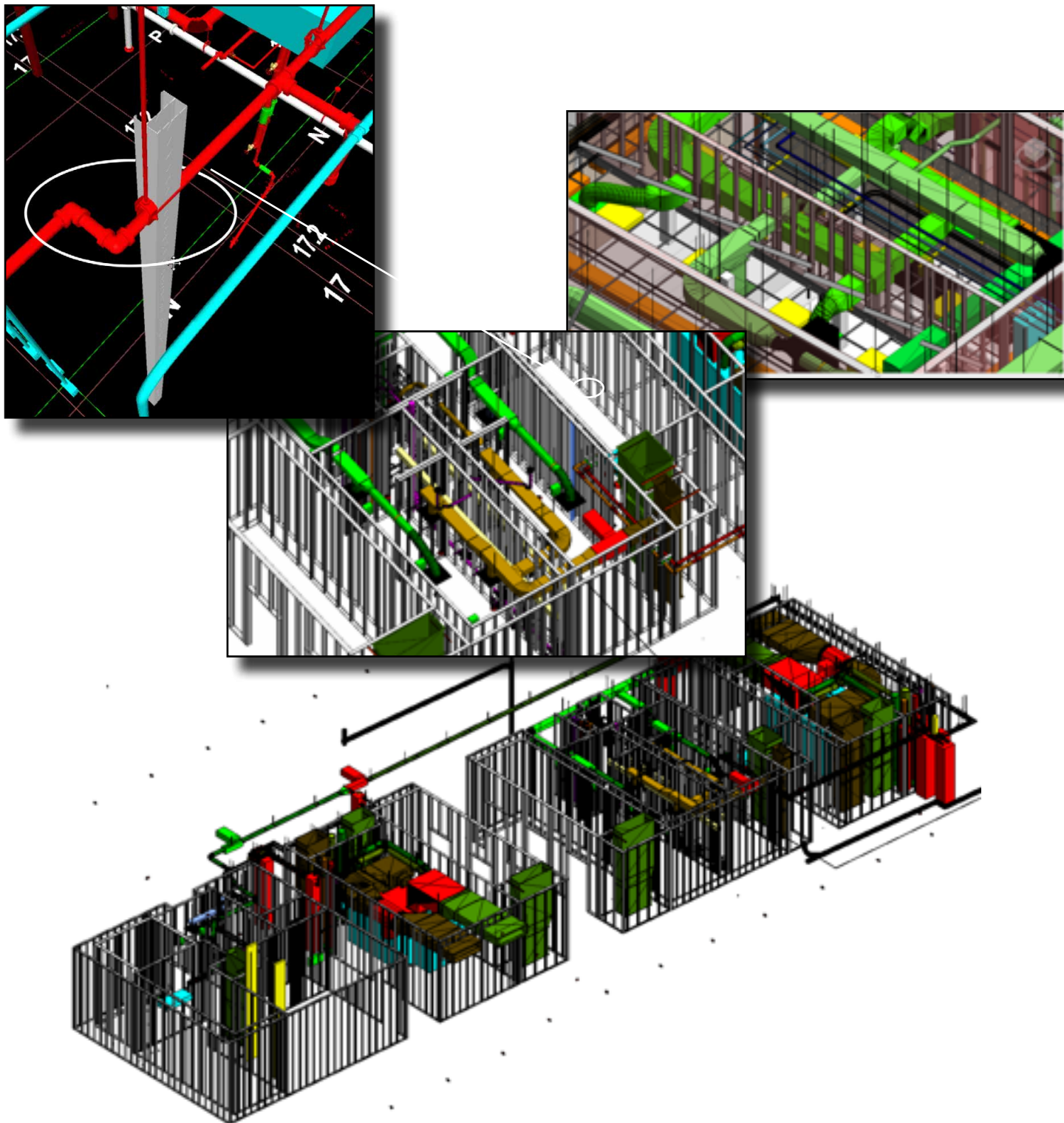
BIM PROJECT PHASE 2

Once the floor plan has been finalized, we would begin putting the infill framing in for all of the partitions. We would also start to place wall backing as needed for mill-work, grab bars, specialty equipment, etc., based on the Levels of Development (LOD) of the BIM Package.



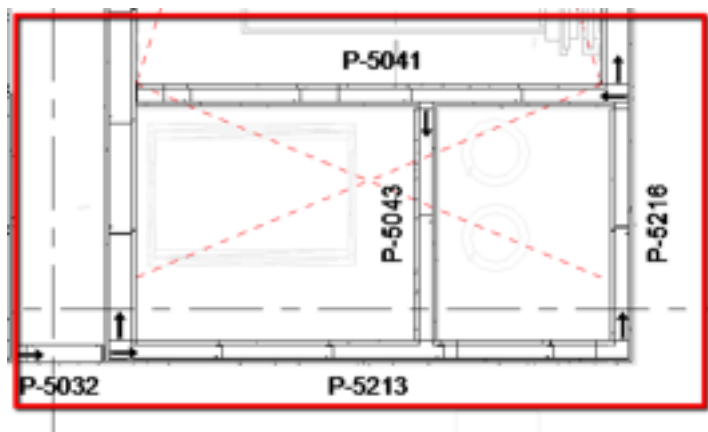
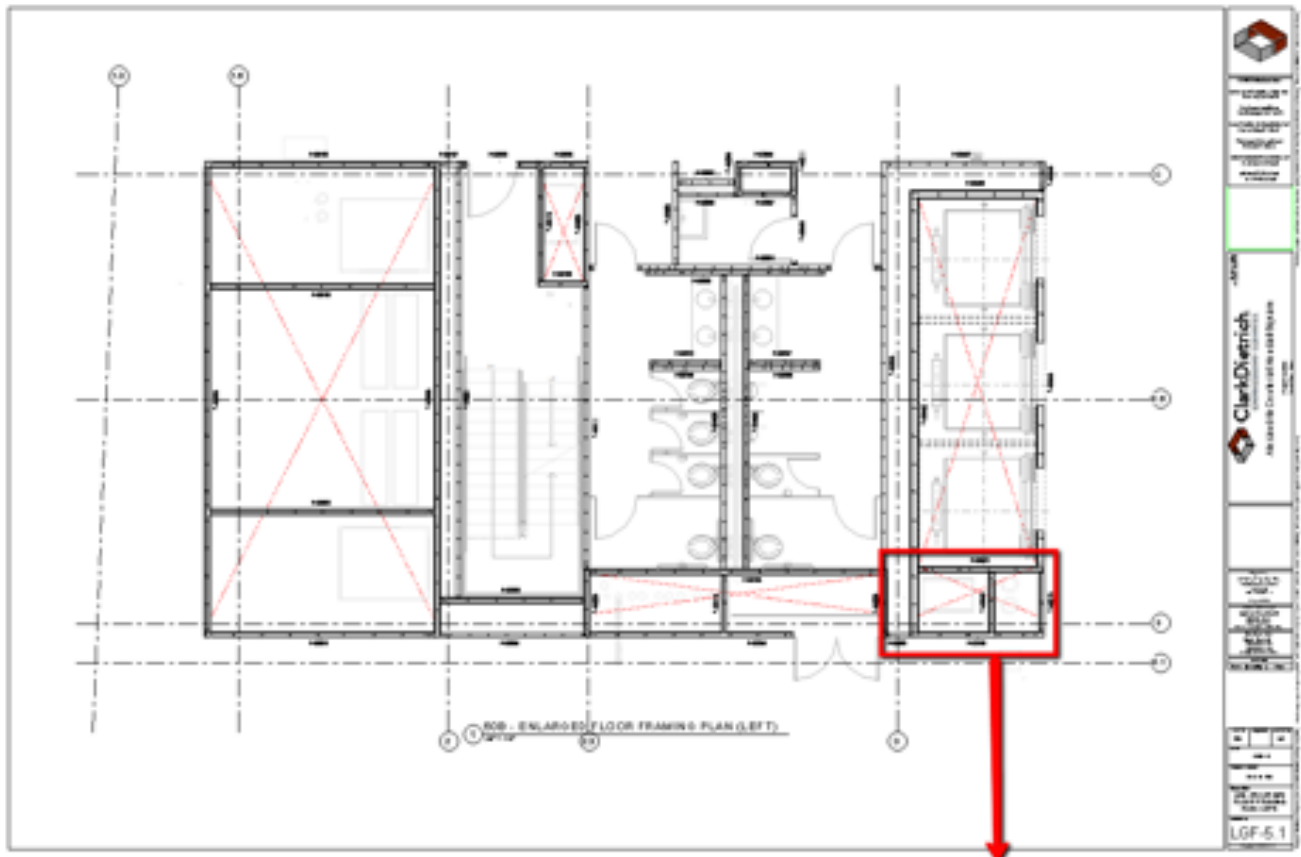
BIM PROJECT PHASE 3

Once all of the MEP trades have been coordinated for each level, we would frame around each wall and soffit penetration eliminating all clashes. Based on the BIM Package, weekly collaboration calls will be made with the GC and other trades to work out clashes.



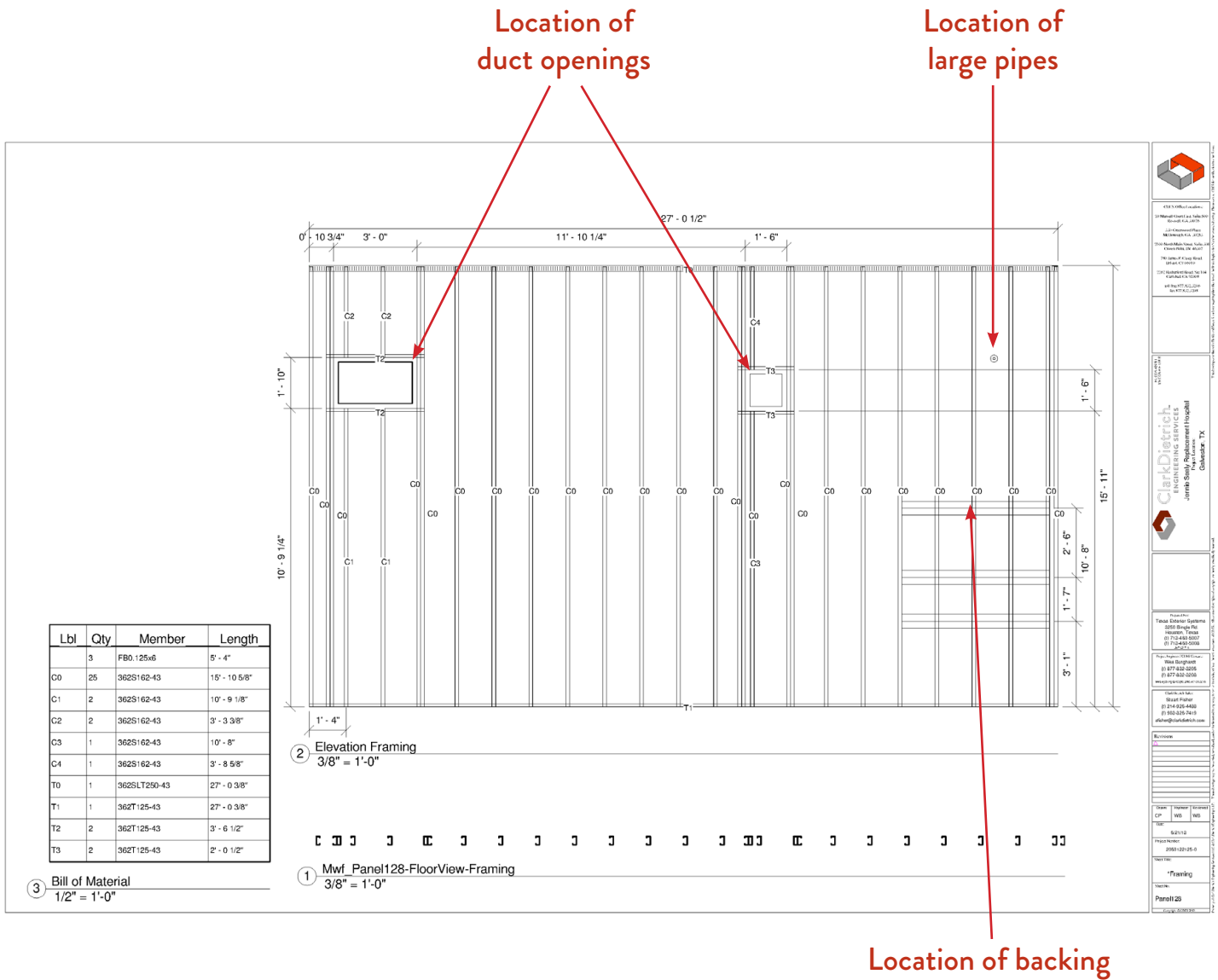
BIM PROJECT PHASE 4

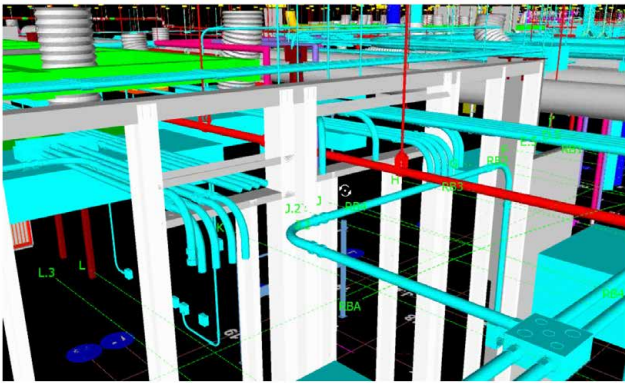
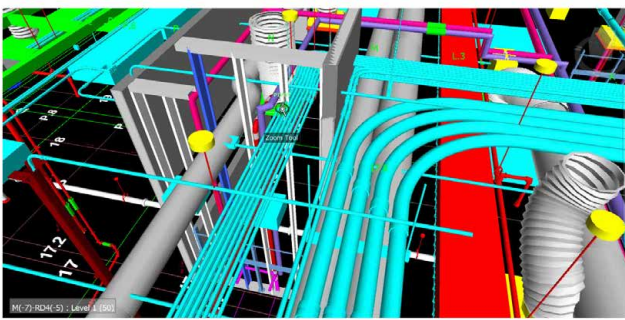
We would then use the coordinated model to create a layout floor plan, along with elevations for each wall, locating all of the studs and openings allowing the framing to be installed prior to the MEP & FP trades.



BIM PROJECT PHASE 5

Once collaboration with trades are finalized, clashes are resolved and wall layouts are approved by the customer and/or GC, the process of creating each framing elevation will start. Each elevation would provide the framing layouts along with the bill of material for each wall.

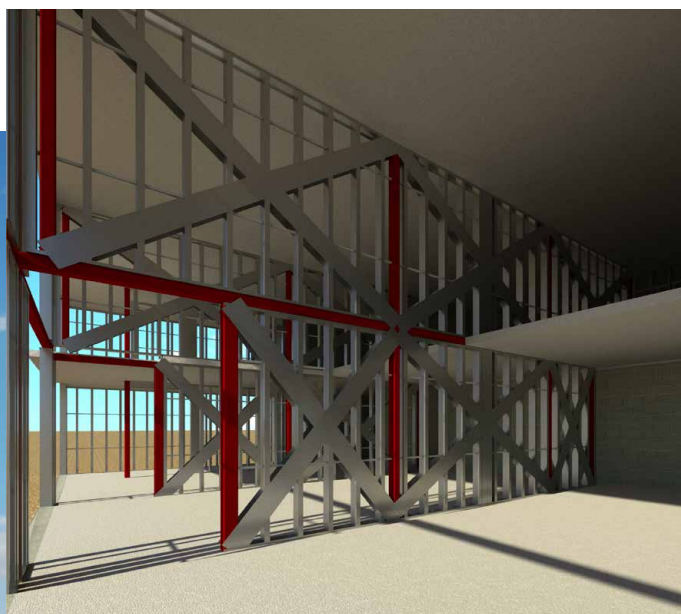
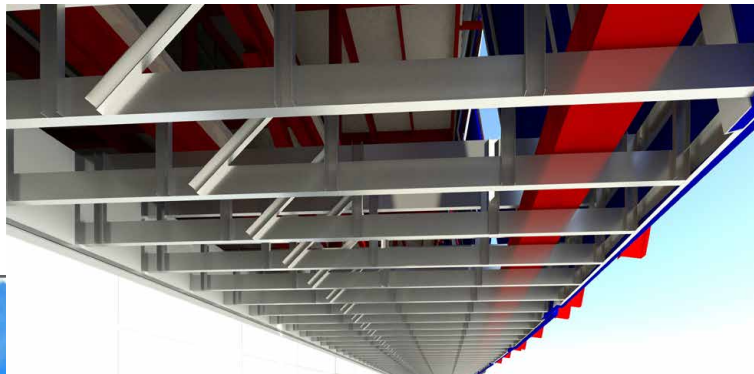




Example ClarkDietrich BIM Project:
JENNIE SEALY REPLACEMENT
HOSPITAL
Galveston, TX



Example ClarkDietrich BIM Project:
GOLDEN 1 CENTER -
SACRAMENTO KINGS ARENA
Sacramento, CA



Example ClarkDietrich BIM Project:
CANAL WALK V
Richmond, VA

BIM PROJECT LIST

Golden 1 Center - Sacramento Kings Arena - Sacramento, California

- Provided engineering, exterior modeling and layout drawings for walls and soffits

Canal Walk V - Richmond, Virginia

- Provided interior/exterior load bearing framing models

Orlando City Soccer Stadium - Orlando, Florida

- Provided interior/exterior framing and coordination

NYU Hospital Center – Kimmel Pavillion - 21 Story Tower Approx. 784,000 sf +/- - New York, New York

- Updated and coordinated wall and ceiling layouts based off multiple ASI's
- Provided clash detection for MEP

UMASS Physical Science Bldg. – 3 Story – Approx 79,000 sf - Amherst, Massachusetts

- Provided interior/exterior framing and coordination

MSU Behavioral & Social Science Center – 5 story – Approx 130,000 sf - Baltimore, Maryland

- Provided interior/exterior framing and coordination

Ballpark Village – 7 story – Approx 232,000 sf - San Diego, California

- Provided interior framing and coordination

Alexandria Center at Kendall Square – 8 Story Core Build-out – Approx 75,000 sf - Cambridge, Massachusetts

- Provided interior framing and coordination along with wall panel drawings

Madeira Healthcare Center – 2 Story – Approx 35,500 sf - Cincinnati, Ohio

- Provided interior & exterior load bearing framing and coordination with panel drawings

Courtyard by Marriott – 6 Story – 76,600 sf - Everett, Washington

- Provided interior & exterior load bearing framing and coordination with panel drawings

Aqua on the Levee – 5 Story – Approx 286,000 sf

Newport, Kentucky

- Provided interior & exterior load bearing framing and coordination with panel drawings

TCH - The Woodlands Campus – 5 Story – Approx 342,500 sf

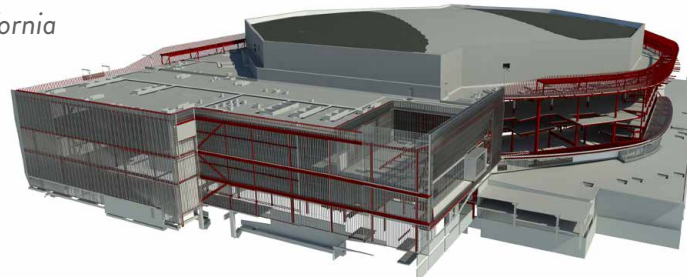
The Woodlands, Texas

- Provided interior/exterior framing and coordination along with wall panel drawings

UW Police Department – 3 Story – Approx 30,000 sf

Seattle, Washington

- Provided interior framing and coordination



Fairmont State University – College Apartment Housing

3 Buildings, 3-4 stories – Approx 109,000 sf

- Provided interior/exterior framing and coordination along with wall panel drawings

John R. Oishei Children’s Hospital of Buffalo

Buffalo, New York

- Provided exterior framing and coordination

Northwestern Mutual Campus Connection

Milwaukee, Wisconsin

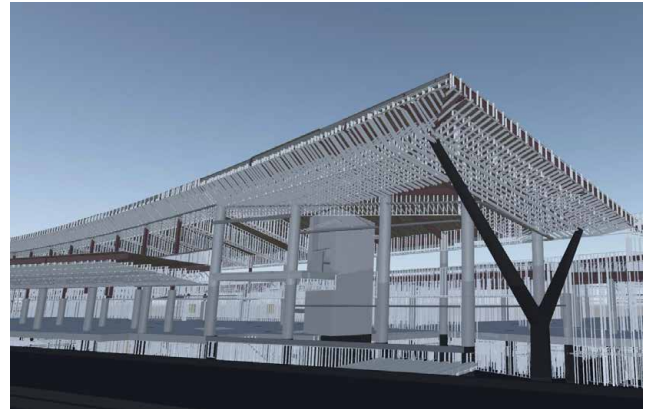
- Provided exterior framing and coordination

Hobby Airport – CFSEI Award Winner 2016

HOU WC FIS: West Concourse FIS

Houston, Texas

- Provided interior/exterior framing and coordination along with wall panel drawings



Carnegie Center West – Building 804 – 3 Story – Approx 181,800 sf

West Windsor Township, New Jersey

- Provided exterior framing and coordination

Hudson Yards – Retail Podium and Tower

New York, New York

- Provided exterior framing and coordination along with wall panel drawings

Presidio of Monterey – 4 Story – Approx 125,000 sf

Monterey, California

- Provided interior/exterior framing and coordination along with wall panel drawings

Brazos Towers at Bayou Manor – 8 Story

Houston, Texas

- Provided interior/exterior framing and coordination along with wall panel drawings

Jennie Sealy Replacement Hospital

Galveston, Texas

- Provided interior/exterior framing and coordination along with wall panel drawings

2021 Chestnut Street - 12 Story – Approx 115,300 sf - CFSEI Award Winner 2015

Philadelphia, Pennsylvania

- Provided exterior framing and coordination along with wall panel drawings

WCSU – Visual and Performing Arts Center – CFSEI Award Winner 2013

Danbury, Connecticut

- Provided interior/exterior framing and coordination along with wall panel drawings



See more project images online at: clarkdietrich.com/BIM.

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clarkdietrich.com/BIM

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