



CCMC Tower

INDUSTRIAL STEEL DETAILING CASE STUDY



FAST-TRACK PROJECT

Hartford, CT | Commercial



PROJECT SUMMARY

The scope includes all main steel framing and new steel within the existing building. Framing the elevator in the existing building and connecting the new steel created coordination challenges. To address this, Mold-Tek requested and successfully received all existing building drawings and elevator coordination drawings.



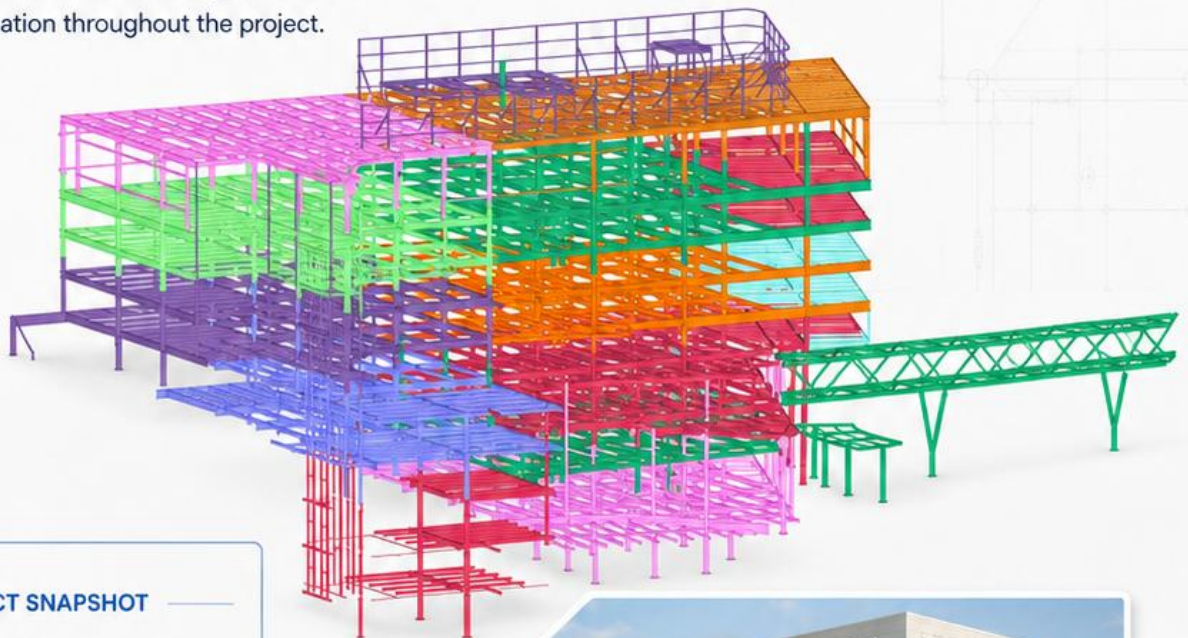
1,742
TONNAGE

18
WEEKS

+
EXISTING + NEW
STEEL INTEGRATION

Built for complex hospital expansion steel delivery.

CCMC Tower in Hartford, CT is a commercial tower project that includes all main steel framing and new steel within an existing building environment. Integration with elevator framing and existing building conditions required highly coordinated detailing and accurate reference information throughout the project.



PROJECT SNAPSHOT

- ✓ Hartford, CT commercial tower
- ✓ 1,742 tons of structural steel
- ✓ 18-week schedule
- ✓ Main steel framing + new steel integration
- ✓ Elevator framing coordination
- ✓ Existing building drawing support



1,742
TONNAGE



18
WEEKS



COMMERCIAL



EXISTING BUILDING
INTERFACE



CCMC Tower | Industrial Steel Detailing Case Study

Main steel framing, elevator interface and new steel integration

Mold-Tek supported detailing for all main steel framing, new steel in the existing building, and tie-in areas where the elevator framing interface required special coordination. Our team ensured accurate modelling, seamless integration, and clear shop drawings to keep the project on schedule and within tolerance.



MAIN STEEL FRAMING

Complete 3D detailing of the primary steel frame including beams, columns, braces and secondary members.



NEW STEEL IN EXISTING BUILDING

Accurate modelling of new structural steel within the existing building with minimal site disruption.



ELEVATOR FRAMING COORDINATION

Special coordination of elevator framing interfaces to ensure seamless fit, safety and constructability.



EXISTING DRAWING INTEGRATION

Integration of received existing drawings to validate conditions and ensure accurate tie-in coordination.



ACCURATE SHOP DRAWING SUPPORT

Production-ready shop drawings with precise dimensions, notes and BOMs for efficient fabrication and erection.



DELIVERY METHOD

01



CAPTURE
EXISTING CONDITIONS



02



PLAN STEEL
PACKAGES



03



COORDINATE
ELEVATOR INTERFACE



04



MODEL
TIE-INS



05



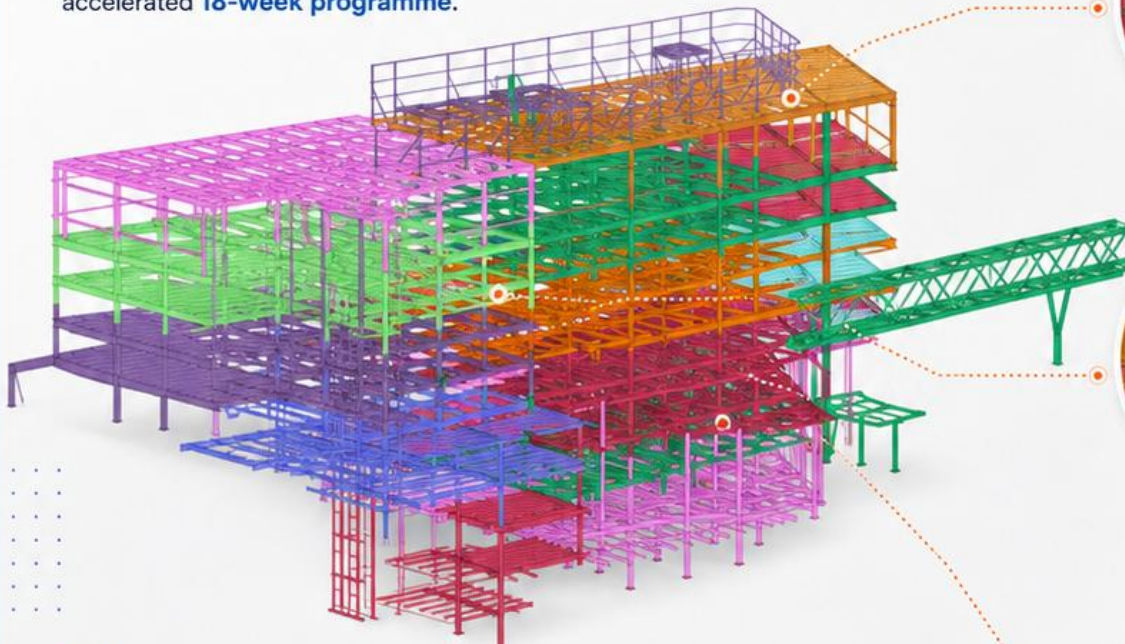
RELEASE
DRAWINGS

Managing existing-building complexity across a fast-track programme.

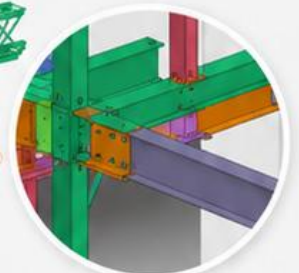
The CCMC Tower project required careful coordination between new steel, existing building conditions, elevator framing requirements, and available reference drawings—delivered within an accelerated **18-week programme**.



FAST-TRACK PROJECT



Elevator framing interface



Existing-to-new steel tie-ins



Multi-level connection zones

COORDINATION CHALLENGES

- Existing building constraints**
Irregular geometry and limited access impacted steel placement and tie-in locations.
- Elevator framing alignment**
Precise coordination of elevator steel framing with shaft, machine room and equipment requirements.
- Tie-in connection accuracy**
Reliable connections between new steel and existing structure were critical for safety and fit-up.
- Reference drawing validation**
Varied levels of detail and inconsistencies across existing drawings required thorough verification.
- Fast-track issue resolution**
Rapid identification and resolution of coordination issues to maintain the 18-week delivery schedule.

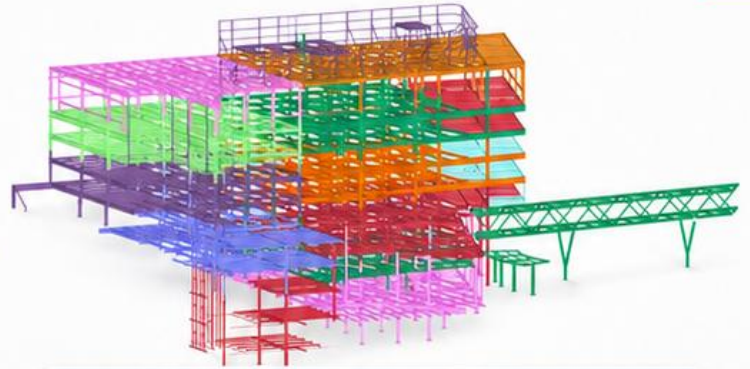
THE IMPACT



Proactive coordination and access to existing drawings enabled Mold-Tek to deliver accurate, build-ready steel detailing with fewer clashes and smoother site execution.

Fast-track detailing support across an 18-week programme.

This commercial tower project required fast-paced detailing support to coordinate new steel framing within an existing building envelope. Our workflow balanced main steel framing, elevator coordination, existing building references, modelling reviews, and issue tracking to support timely releases throughout the 18-week programme.



1,742
TONNAGE



18
WEEKS



COMMERCIAL
TOWER



EXISTING + NEW
STEEL



Main steel

- Primary steel framing from foundations to roof level
- Major beams, girders and columns
- Secondary members and floor framing
- Clarity on member sizes and elevations



Elevator interface

- Existing building elevator locations and shafts
- Elevator framing and support steel
- Interface coordination with new steel
- Tolerance and clearance management



Connection detailing

- Moment, shear and base plate connections
- High-tonnage connection details
- Shop-ready fabrication information
- Consistency across typical conditions



Model coordination

- 3D modelling with clash awareness
- Interface coordination with other trades
- Review and issue management
- Disciplined model check and approvals

SCHEDULE LENS – 18 WEEK PROGRAMME



KICKOFF
Week 0



EXISTING DRAWING
REVIEW
Weeks 1–2



MODELLING &
DETAILING
Weeks 3–7



COORDINATION &
ISSUE RESOLUTION
Weeks 8–13



QA/QC &
REVIEW
Weeks 14–16



RELEASE-READY
OUTPUT
Weeks 17–18



VALUE
DELIVERED

- ✓ Coordinated complex existing-building interfaces
- ✓ Supported elevator framing integration
- ✓ Maintained schedule discipline across 18 weeks
- ✓ Delivered accurate build-ready steel detailing

