



Project Profile **LS_03**

PROJECT NAME

CONFIDENTIAL LIFE SCIENCES R&D LABORATORY
West Point, Pennsylvania

DATE OF ERECTION
Q2 2025

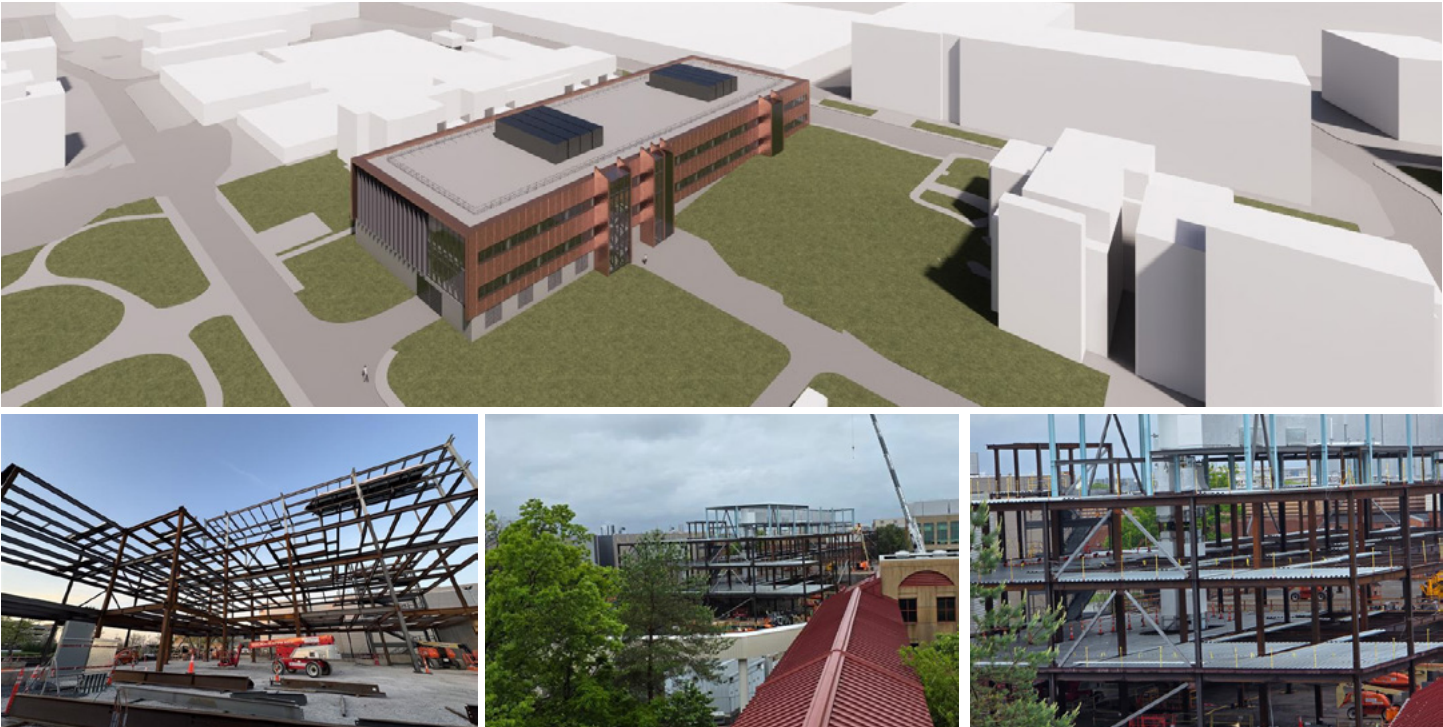
PROJECT CATEGORY

LIFE SCIENCE / MANUFACTURING
120,000 SQFT. 2.5-stories + penthouse.

CONXTECH SOLUTION

ConXtech employed non-seismic braced frames as the Lateral Force Resisting System (LFRS) with ConXtech XL300 and XL400 collars as Flexible Moment Connections (FMCs).

The ConXtech FMC system is compatible with any Lateral Force Resisting System (LFRS) and enables safer and faster steel installation along with improving frame stability and plumb / alignment during erection. In the final condition, the FMC members form part of the gravity system and do not participate in the LFRS.



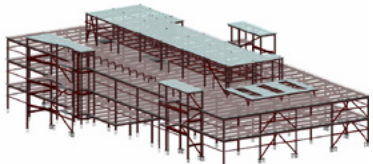
Life Sciences R&D | Laboratory

PROJECT NARRATIVE

This 120,000 SQFT research & development laboratory, located at an existing campus, will expand manufacturing and testing for pharmaceuticals, vaccines, and biological products for US...-based preclinical and clinical work. Jacobs selected ConXtech for Structural Steel Design-Assist and Fabrication / Erection during Conceptual Design, and this project was delivered in accordance with Integrated Project Delivery principles. ConXtech’s solution included a mixture of patented connection technologies that offered safer and faster steel erection, minimized site labor, was cost competitive, and fully met all building performance criteria.

CONXTECH PROJECT APPROACH

Employing non-seismic braced frames as the Lateral Force Resisting System (LFRS), ConXtech integrated ConXtech XL300 and XL400 collars as Flexible Moment Connections (FMCs). This ConXtech FMC system serves a dual purpose: first, providing essential stability and alignment during frame erection; and second, transitioning to become part of the gravity load system in the final structure, thus not participating in the LFRS. ConXtech’s FMC solution reflects the latest evolution in ConXtech’s design approach and can be paired with any LFRS. ConXtech proposed this approach for subject program as it provided the most efficient frame weight and cost while still allowing for safer steel erection and a field assembly rate that cannot be matched by any other competing structural system.

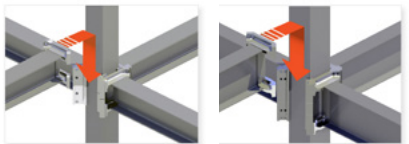


PROJECT DATA

Square Footage	120,000 ft²
Steel Frame + Metal Decking Install	6 Weeks
ConXtech Scope	Supply and Installation of Structural Steel, Edge Closure, Prefab Stairs,, Metal Decking, and Roof Dunnage Platform

STAKEHOLDERS

Owner	Confidential
Architect	Jacobs
Engineer	Jacobs
Construction Manager	Jacobs

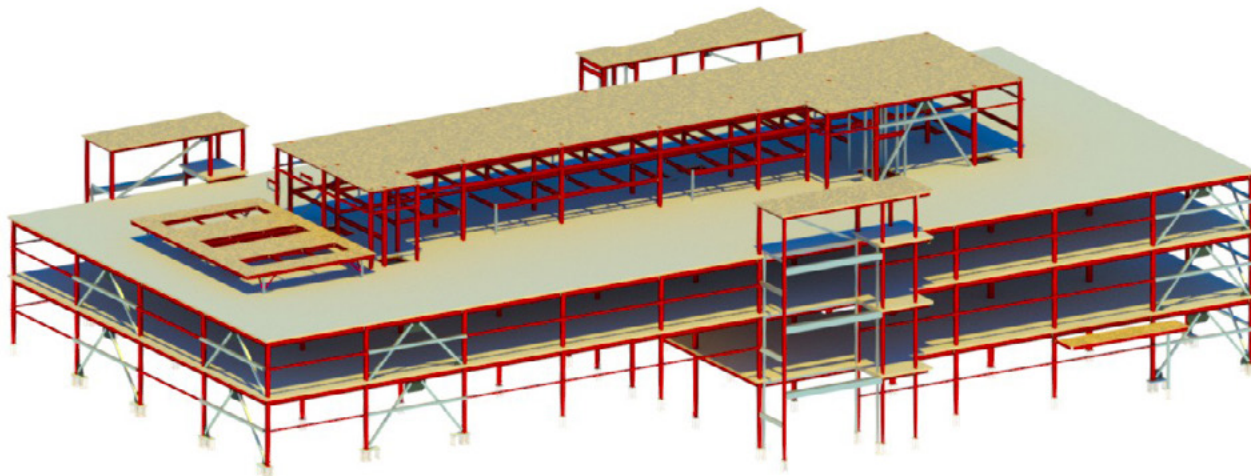


CONX FMC 300

CONX FMC 400

Building Type	Life Science / Manufacturing
Location	West Point, PA
Stories	2.5 stories plus penthouse
Size	120,000 ft ²
Floor to Floor Heights	15 -18 ft.

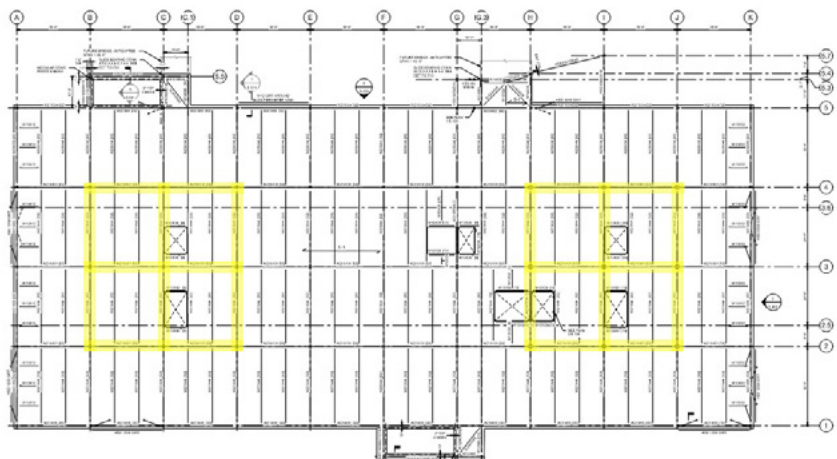
Live Load	100 - 175 PSF
Floor Vibration Criteria	4,000 mips
ConXtech System	Gravity System
Seismic Design	Category B <i>*Braced Frames Not Specifically Detailed for Seismic as LFRS</i>



Whether LFRS or Gravity,
ConXtech Connections
Deliver Unparalleled Safety
and Speed.

CONXTECH FLEXIBLE MOMENT CONNECTIONS (FMCs)

- Cost competitive
- Work in combination with any steel LFRS (but not part of the LFRS)
- Immediate frame stability
- No concrete fill of any columns
- No RBS beams at ConX collars
- No pretensioned bolts
- Wider beam selections
- Enables safer and faster steel erection on par with ConXtech's legacy MF products



CONTACT US



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