



California School System DSA and Non-DSA Project Experience

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1.1

Our Approach



CONXTECH®

conXtech.com

ConXtech Structural Steel Building Platforms:

Education

ConXtech is an ideal structural solution for Education applications offering accelerated installation schedules as well as simplified layout and future programmability.

- Schedule
- 2x-5x faster than conventional steel and concrete
 - Accelerated schedule from concept through construction
 - Accelerated approvals

- Safety
- 50% reduction in field labor- fewer “at-risk” hours
 - “Lower and locking” connection provide instant stability and alignment prior to bolt-up
 - Erection done from aerial baskets
 - Precision fabrication translates to repeatable standard work and perfect fit in field

- Cost
- Up to 10% lower structural system cost vs conventional steel (incl savings in GC/GRs) depending on region
 - Reduced carrying costs and interest reserves required for development financing
 - Easy integration of other trades due to standard, modular componentry

- Asset Value
- Increased schedule leads to faster occupancy
 - Safer, higher performance facilities
 - Lower overall risk and greater predictability due to systems approach
 - Reduced Noise, on-site waste, and disruption to neighboring facilities
 - Flexible structural system is easy to customize

- Use Cases
- Projects that are schedule driven: **“WE WILL GIVE YOU A MONTH!”**
 - Projects that require schedule certainty: **“CONXTECH HAS NOT MISSED A SCHEDULE EVER”**
 - Projects that require pricing certainty: **“AS A MODULAR SYSTEM WE CAN GIVE YOU A DEFINITIVE PRICE (+/- escalation) FOR YOUR CLIENT!”**

Key CONXL™ 400 Product Details

Height Range:	2 - 5 stories
Field Assembly Rate:	10,000 - 15,000ft²/Day
HSS/Box Column Size:	Nominal 400mm (16" square)
Variable Beam Depth*:	18" - 36"
Variable Beam Spans**:	18' - 45'+



Southwestern College HEC
22,400 sqft - 12 days to erect



Santa Monica High School
127,000 sqft - 25 days to erect

For more information about this product or any product within the ConX Structural Steel Platform, please contact us at info@conxtech.com or visit conxtech.com

System for Educational Facilities:

ConXtech offers a variety of approaches for the Education sector. The first is our SMF (Special Moment Frame) option. The second is our hybrid approach that combines our FMC (Flexible Moment Connection) with standard bracing. Depending on the location, building demands, and specifications, ConXtech will offer the most efficient, highest-performing, and cost-effective structure to meet our clients’ needs. In both instances, speed to market is our superpower.

ConXtech Systems & Primary Markets

	CONXR200	CONXL300	CONXL400
Assembly Rate:	4,000 - 6,000 sqft per day	8,000 - 12,000 sqft per day	10,000 - 15,000 sqft per day
Markets:	<ul style="list-style-type: none">• HD Residential• Hospitality• Industrial• Mezzanine• Student & Senior Housing	<ul style="list-style-type: none">• Industrial L&G• Commercial• Manufacturing• Mezzanine• Healthcare	<ul style="list-style-type: none">• Healthcare• Commercial• Education• Institutional

Turnkey Approach



Design

- In-House professional engineering capacity offers robust design-assist support from concept through plan check
- Standardized connection design allows engineers to focus on other critical path items

Fabricate

- Specialized fixturing = fewer defects
- Reduced inspection costs
- High-Accuracy fabrication yields precision fit in the field
- Flexible fabrication capabilities across multiple locations

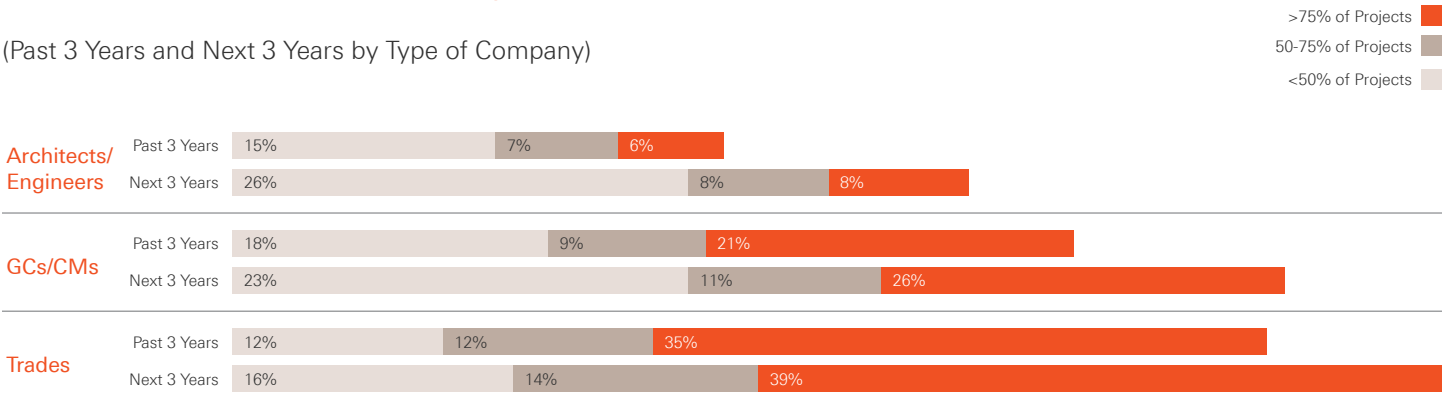
Erect

- 2x – 5x faster assembly than other construction methods
- 50% reduction of field labor for “assembly” of structure
- Reduced risk for client
- Rapid turn-over of critical path

ConXtech: A Unique Accelerator in the Structural Engineer’s Toolkit

Percent of Projects with Prefabricated Single Trade Assemblies

(Past 3 Years and Next 3 Years by Type of Company)



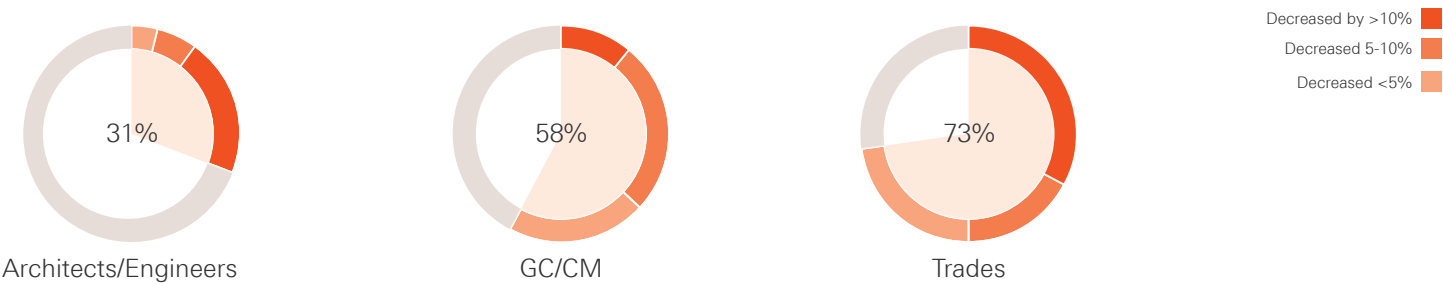
Prefabricated and modular methods of construction are not new, but their use is surging across the global construction sector. Global markets have experienced a significant uptick in demand for everything from pre-manufactured assemblies to volumetric modular apartments built offsite. Real estate developers are driving much of the sector’s growth, hoping to achieve faster construction schedules that produce earlier revenue and lower overall carrying costs. In their 2019 report, Modular construction: From projects to products, McKinsey researchers brought wide attention to the positive impacts of offsite construction manufacturing – finding that certain forms have a consistent track record of accelerating project timelines by 20% to 50%.

Offsite constructed systems range from prefabricated roof trusses to fully-finished, factory-built housing units, and the use of such systems is on the rise. In a report published by Dodge Data & Analytics, Prefabrication and Modular Construction 2020, 31% of engineers and architects, and 58% of general contractors reported that using some form of prefabrication meaningfully improved overall project timelines. Almost 70% of architects and general contractors in the Dodge study anticipated specifying single-trade prefabrication over the next 3 years.

In addition to project schedule acceleration, moving complex building assemblies into a controlled factory environment promotes improved safety, sustainability, and quality metrics.

Impact of Prefabrication on Project Schedule Performance

(Percentages Reporting Each of Three Levels of Improvement)



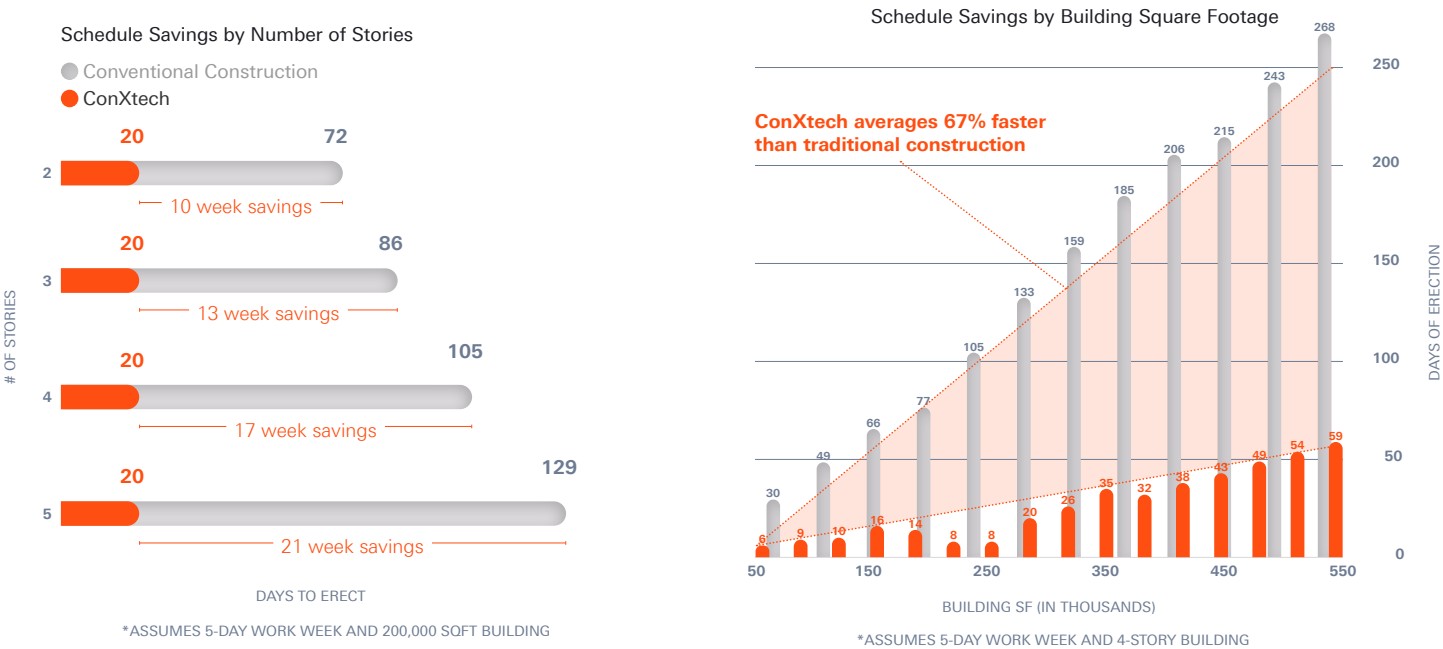
Structural Solutions That Are Simply Faster

Early-procurement solutions like those offered by ConXtech are a powerful tool in an engineer’s design toolkit, offering an unparalleled way to accelerate construction schedules while offering broad design flexibility. ConXtech is a strong solution for buildings from 2 to 8 stories, and the flexibility of the system’s kit of parts offers a wide range of structural configurations suitable for anything from schools, healthcare, apartments, and hotels to data centers, biotech applications, and aerospace facilities.

For the right building projects, a ConXtech structural solution can speed up building framing by 3-5x, and ensures greater accuracy both during the design and construction phase of a project. The unique “lower and lock” erection method facilitated by ConXtech collars reduce or eliminate on-site welding, and the precision of its components can reduce project risk and provide a meaningful return on investment for developers and building owners.

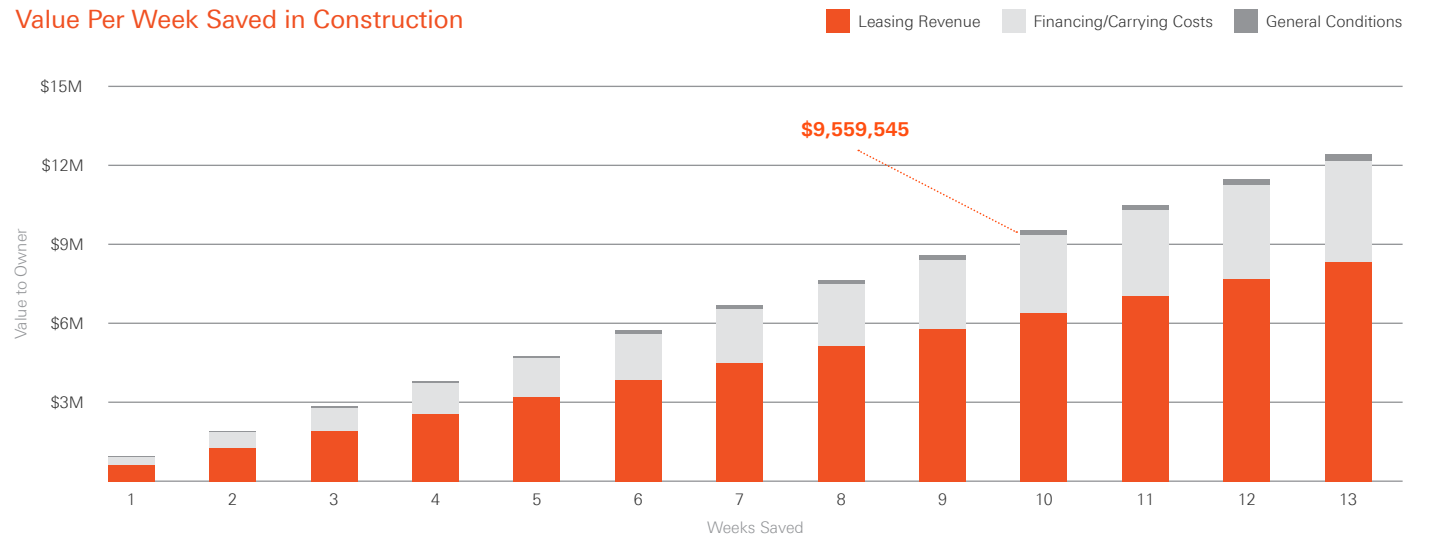
ConXtech vs. Conventional Construction:

- Magnitude of savings is proportionate to magnitude of project
- On average, Conxtech is 67% faster

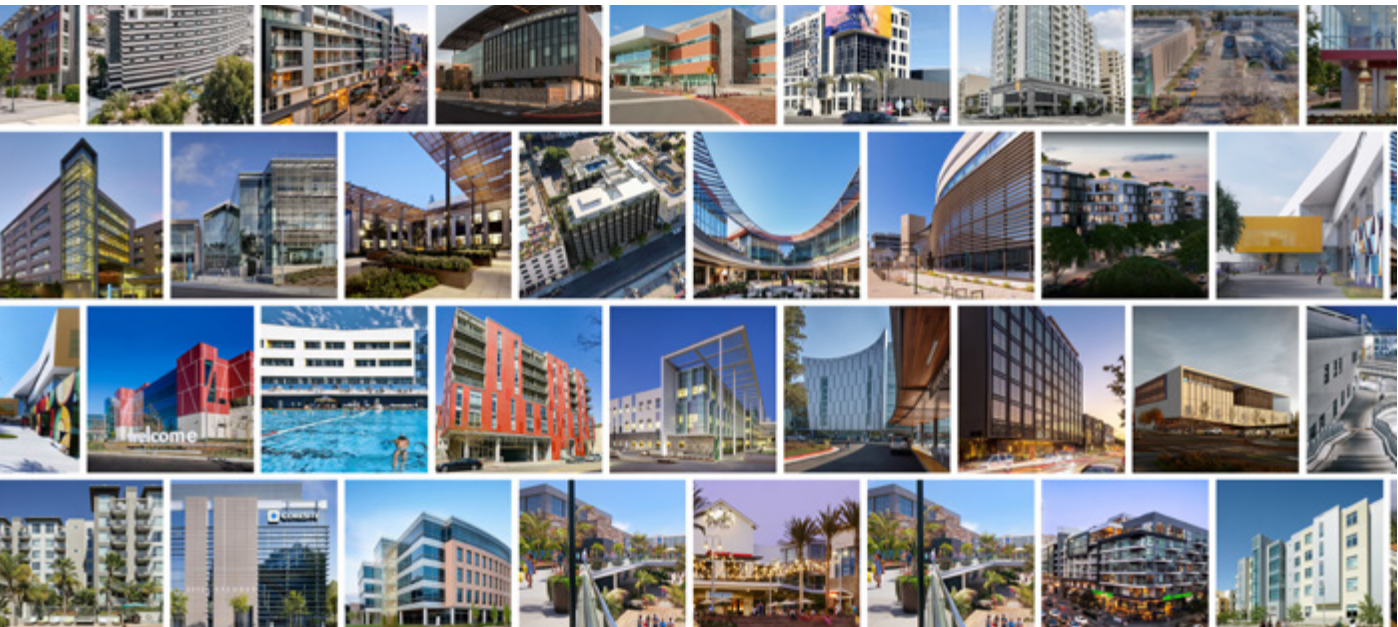


The economic impact of these schedule savings is substantial. On a recently constructed data center project, one client analyzed the economic benefit of using ConXtech on his project.

Time is Money:



Unlimited Design and Engineering Possibilities



Why ConXtech is Faster

Streamline method of erection Built-up is Built-in

Traditional

Multiple people per joint in precarious positions



Conxtech

Work out of man-basket, only one person needed at joint to easily lower and lock into place (not even one man...only one hand)



Billboard/X-tree Installation speeds assembly time

Traditional

Tiered Erection – mired in redundancy



Conxtech

Billboarding – instant stability +fewer “at risk” hours onsite



No lost time to inspections, testing and reworking

Traditional

Field weld testing/inspection leading to re-work



Conxtech

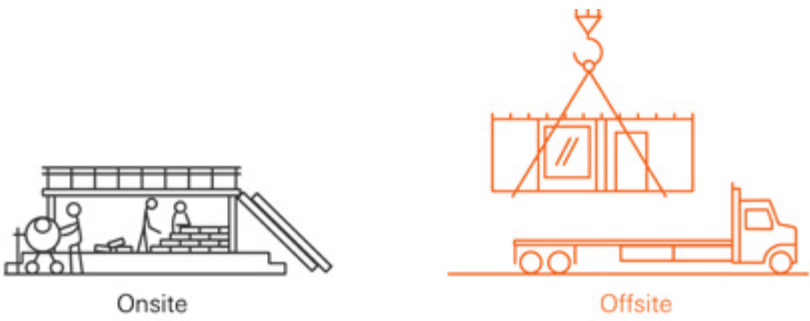
ConX simplifies inspection



Factory & Jobsite Integration

Benefits

- Increased Labor Productivity
- Less Waste
- Highly Skilled Workforce
- Improved Jobsite Efficiency
- Quality Control
- Advanced Technology



Labor Productivity Increases by 30% on Offsite Projects
Source: McGraw Hill

End-to-end LEAN process, from manufacturing through erection.

Shifting labor from the jobsite to the factory.

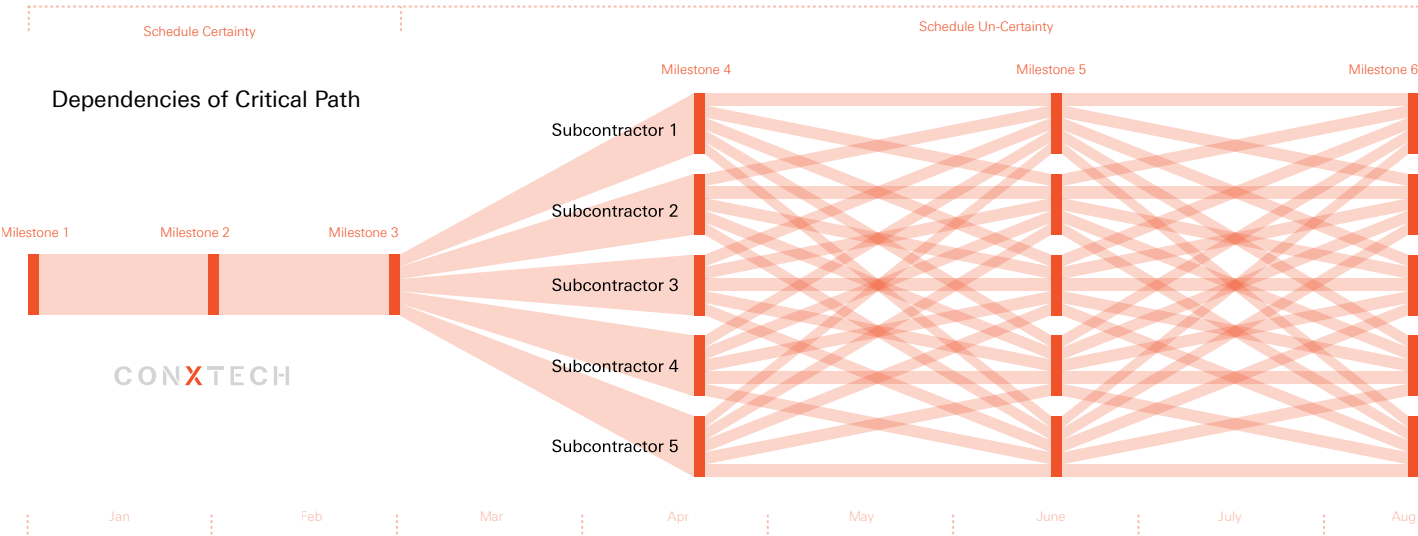
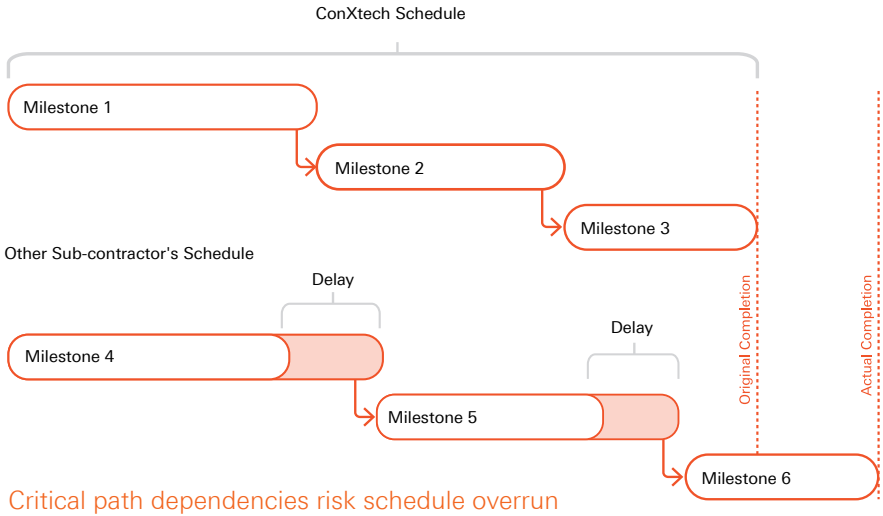


Extending factory precision to the jobsite.



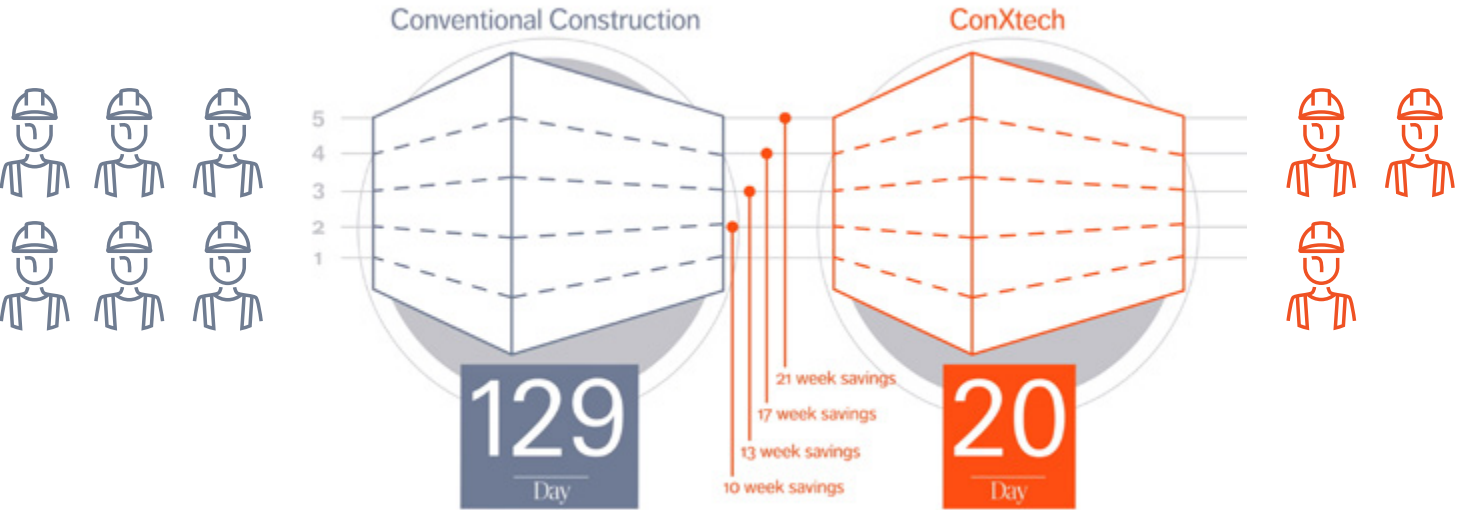
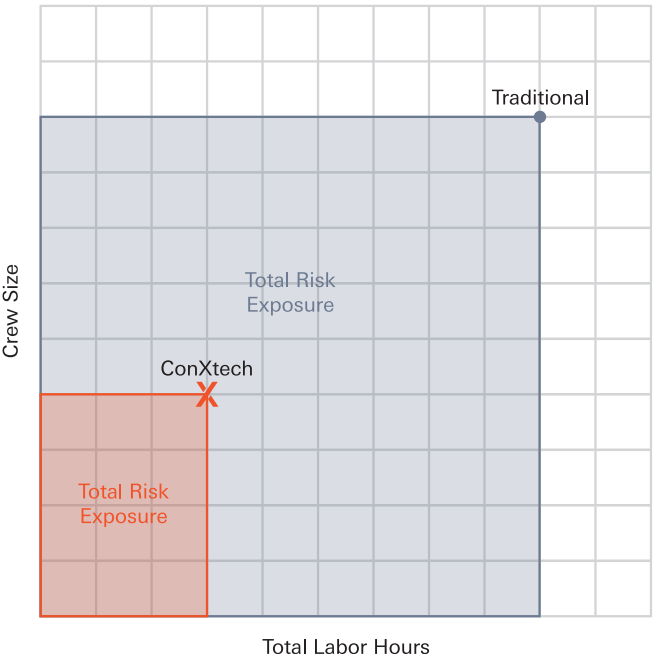
Critical Path Impact

- ConXtech impacts critical path directly
- We are the only subcontractor that can reliably claim schedule savings
- Following the completion of ConXtech’s scope, multiple subcontractors begin working simultaneously effecting each others’ critical path



Safer Steel Erection Sequencing

- Crew works out of baskets, not walking the steel
- Beams drop into place less than 6 secs
- Smaller crew size + less labor hours = Less exposure to risk



About 1/2 the crew size and 1/2 the labor hours

Industry leading interstate EMR

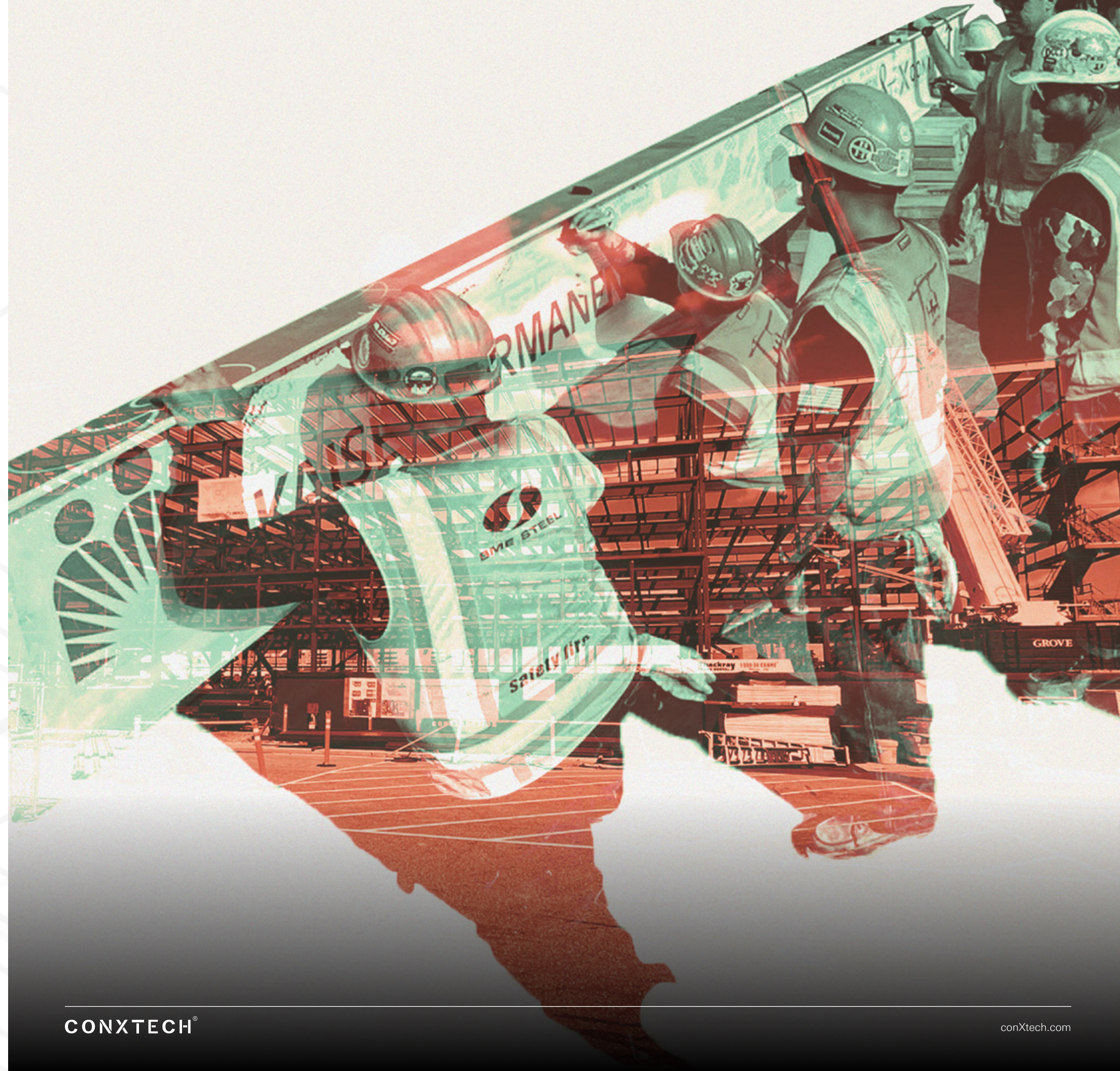
ConXtech’s riggers and connectors work from the safety of high reach mobile work platforms operating in delineated fall hazard exclusion areas, enabling them to quickly and safely move from work point to work point.

0.84
INTERSTATE
EMR



1.2

Division of the State Architect - California School System Project Experience





DSA-SS Code Approval Roadmap

The following is Building Code roadmap of the Title 24, DSA-SS approval of the ConXL moment connection as published in the AISC 358 Prequalified Special Moment Frame Connections Manual.

The 2019 California Building Code, Volume 1, Chapter 1, Scope and Administration, Section 1.9.2.1 DSA-SS states.

1.9.2 Division of the State Architect—Structural Safety.

1.9.2.1 DSA-SS Division of the State Architect-Structural Safety.

Application—Public elementary and secondary schools, community colleges and state-owned or state-leased essential services buildings.

Enforcing agency—The Division of the State Architect—Structural Safety (DSA-SS) has been delegated the responsibility and authority by the Department of General Services to review and approve the design and observe the construction of public elementary and secondary schools, community colleges and state-owned or state-leased essential services buildings.

Section 1.9.2.1.2 Applicable Building Standards states that DSA-SS adopts Title 24, Part 2: Chapter 22A, (for steel design.)

1.9.2.1.2 Applicable building standards. California Building Standards Code, Title 24, Parts 2, 3, 4, 5, 6, 9, 10, 11 and 12, California Code of Regulations, for school buildings, community colleges and state-owned or state-leased essential service buildings.

The provisions of Title 24, Part 2, as adopted and amended by the Division of the State Architect—Structural Safety, shall apply to the applications listed in Section 1.9.2.1.

The Division of the State Architect—Structural Safety adopts the following building standards in Title 24, Part 2:

Chapters 2 through 10, 12, 14, 15, 16A, 17A, 18A, 19A, 20, 21A, 22A, 23, 24, 25, 26, 30, 31, 32, 33, and 35.

Title 24, Part 2, Chapter 22A is required for the quality, design, fabrication, and erection of steel structures in DSA-SS, OSHPD 1, and OSHPD 4 structures.

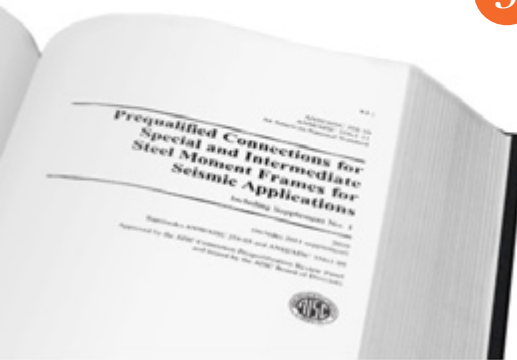
SECTION 2201A GENERAL

2201A.1 Scope. The provisions of this chapter govern the quality, design, fabrication and erection of steel construction.

2201A.1.1 Application. The scope of application of Chapter 22A is as follows:

- Structures regulated by the Division of the State Architect-Structural Safety (DSA-SS), which include those applications listed in Section 1.9.2.1. These applications include public elementary and secondary schools, community colleges and state-owned or state-leased essential services buildings.
- Structures regulated by the Office of Statewide Health Planning and Development (OSHPD), which include those applications listed in Sections 1.10.1, and 1.10.4. These applications include hospitals and correctional treatment centers.

AISC 358 Chapter 10 is the ConX chapter



SECTION 2206A COMPOSITE STRUCTURAL STEEL AND CONCRETE STRUCTURES

2206A.1 General. Systems of structural steel elements acting compositely with reinforced concrete shall be designed in accordance with AISC 360 and ACI 318, excluding ACI 318 Chapter 14.

2206A.2 Seismic design. Where required, the seismic design, fabrication and erection of composite steel and concrete systems shall be in accordance with Section 2206A.2.1.

2206A.2.1 Seismic requirements for composite structural steel and concrete construction. Where a response modification coefficient, *R*, in accordance with ASCE 7, Table 12.2-1, is used for the design of systems of structural steel acting compositely with reinforced concrete, the structures shall be designed and detailed in accordance with the requirements of AISC 341 and shall be consid-

Exception: Steel and concrete composite special moment frame with the approved moment connections in accordance with AISC 358 Chapter 10 shall be permitted, provided:

- Beams are provided with reduced beam sections (RBS);
- Web extension to beam web two-sided fillet weld welds are sized to develop expected strength of the beam web and shall not be less than a 1/4 inch fillet weld; and
- The built-up box column wall thickness shall not be less than 1.25 inches and the HSS column wall thickness shall not be less than 1/2 inch.

CHAPTER 10 CONXTECH CONXL MOMENT CONNECTION

The user's attention is called to the fact that compliance with this chapter of the standard requires use of an invention covered by patent rights. By publication of this standard, no position is taken with respect to the validity of any claim(s) or of any patent rights in connection therewith. The patent holder has filed a statement of willingness to grant a license under these rights on reasonable and nondiscriminatory terms and conditions to applicants desiring to obtain such a license, and the statement may be obtained from the standards developer.

10.1. GENERAL

The ConXtech® ConXL™ moment connection permits full-strength, fully restrained connection of wide-flange beams to concrete-filled 16-in. (400-mm) square HSS or built-up box columns using a high-strength, field-bolted collar assembly. Beams are shop-welded to forged flange and web fittings (collar flange assembly) and are field-bolted together through either forged or cast steel column fittings (collar cor-



CANYON HIGH SCHOOL S.T.E.M. FACILITY EDUCATION

PROJECT NARRATIVE

Part of the Canyon High School Campus Modernization program, the new 2-story, 67k SQFT Canyon High School STEM building houses 12 science labs, 12 classrooms, student services, and administrative offices. The Gafcon, Inc. team championed the use of ConXtech as one of many value engineering ideas for this program. By implementing the use of ConXtech modular steel framing system, about \$500,000 in materials costs and inspections were saved, as was about six weeks of construction.

KEY PROJECT DATA

67,096

Square Feet

8

Days to Erect Steel



STAKEHOLDERS

Owner	Orange Unified School District
Architect	GKKWorks / CannonDesign
Engineer	VCA Engineers
Contractor	Gafcon Inc.
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech
ConXtech Scope	Structural Steel, Decking

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com



SANTA MONICA HIGH SCHOOL DISCOVERY BUILDING EDUCATION

PROJECT NARRATIVE

The Santa Monica High School Discovery Building is a new 3-story structure erected on top of podium level parking. This innovative building was designed using the "open building" design concept, with a flexible, open-column grid, raised floors and non-load bearing walls which can be reconfigured over time. ConXtech's brace-free structural solution was an integral part of making that possible. The project has been recognized as the winner of the ENR California Best Projects 2022: Best K-12 Education, among various other recognitions.

KEY PROJECT DATA

280,000

Square Feet

25

Days to Erect Steel



STAKEHOLDERS

Owner	Santa Monica -Malibu Unified School District
Architect	HED Design
Engineer	Saiful. Bouquet Structural Engineers
Contractor	McCarthy Construction
Steel Fabricator	ConXtech/Zamil
Steel Erector	ConXtech
ConXtech Scope	Main Structural Steel

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com





COLLEGE OF ALAMEDA NEW CENTER FOR LIBERAL ARTS EDUCATION

PROJECT NARRATIVE

The 54,000 SF facility features two specialized buildings joined by a central atrium. A two-story administration wing houses conference rooms, offices spaces, seminar rooms, and Dean's offices. A three-story classroom building houses lecture rooms, apparel design/sewing/arts laboratories, gallery, cafe and flexible learning spaces. A grand two-story atrium ties these buildings together, providing a warm community multipurpose space equipped with audio visual and lighting for art gallery or special exhibit events on campus

CONX SOLUTIONS

The ConXL 400 System was easily integrated into this architecturally unique, Design-Build project which is LEED Silver certified. The ConXL System has been pre-approved by the Division of State Architect (DSA) for use in California schools since 2012.

KEY PROJECT DATA

54,000	8
Square Feet	Days to Erect Steel



STAKEHOLDERS

Owner	Peralta Community College District
Architect	Noll and Tam Architects
Engineer	Forell / Elsesser Engineers Inc.
Contractor	Overaa Construction
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
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SOUTHWESTERN COLLEGE EDUCATION

PROJECT NARRATIVE

This 2-story, 22,400 ft² educational building on Southwestern College's National City, CA campus features classrooms, a lecture hall, four laboratories and a medical clinic. The added classroom space will enable students focusing on the Sciences to take courses at the National City campus, instead of having to travel to the Chula Vista campus. Students will gain practical, hands-on experience working at the on-site clinic.

CONX SOLUTIONS

The ConXL 400 System was easily integrated into this architecturally unique, DSA-approved project which featured cantilevered walkways and numerous elevation changes in the structural steel. The ConXL System has been pre-approved by the Division of State Architect (DSA) for use in California schools since 2012.



KEY PROJECT DATA

22,400	12
Square Feet	Days to Erect Steel



STAKEHOLDERS

Owner	Southwestern College
Architect	Johnson Favaro
Engineer	TTG
Contractor	Sundt Construction
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
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MARSHALL ELEMENTARY INSTITUTIONAL

PROJECT NARRATIVE

The entire scope of the Marshall Elementary School reconstruction in Anaheim, CA includes three two-story educational buildings and one high bay single-story multi-use building. ConXtech's scope includes this two-story, 43,604 ft² educational facility that was erected in 18 days. Marshall Elementary is one of four schools being reconstructed and modernized as part of Anaheim City School District's master plan for improvements. The architectural style is neo-mission, in keeping with the District design standard, and will support thousands of students over the next 50 years.

CONX SOLUTIONS

The Division of State Architects' approval for this structure was expedited by ConXtech's prequalification and publication in the AISC Seismic Provisions for Structural Steel Buildings manual. Once construction began, Building C was erected three times faster than any of the other traditional steel buildings on site. No braces were needed on the ConX building, while all other buildings on the site required lateral restraints.

KEY PROJECT DATA

43,604

Square Feet

18

Days to Erect Steel



STAKEHOLDERS

Owner	Anaheim City School District
Architect	BCA Architects
Engineer	Walter P. Moore
Contractor	Erickson-Hall & Columbia Steel
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel, Decking

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com



CSU MONTEREY BAY INSTITUTIONAL

PROJECT NARRATIVE

This 58,000 ft² building is the new home of the school of Business and Information Technology on the California State University Monterey Bay campus. It was designed to be LEED Gold Certified, with features including natural light in learning and staff areas, on site storm water runoff containment and water conserving plumbing fixtures. Heat-producing direct sunlight is also kept to a minimum with the exterior screen wall.

CONX SOLUTIONS

ConXL's long structural spans were an ideal solution for this structure due its unique architectural details and building geometry. The ConXL connection is approved by the Division of the State Architect (DSA) for use in California schools.

KEY PROJECT DATA

58,000

Square Feet

27

Days to Erect Steel



STAKEHOLDERS

Owner	California State University
Architect	HMC Architects
Engineer	Thornton Tomasetti
Contractor	Rudolph & Sletten
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel

CONTACT US

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LAVC ACADEMIC COMPLEX 1

EDUCATION

PROJECT NARRATIVE

The Academic Complex building is a three-story 84,000 square foot academic building that will feature smart classrooms, computer labs, lecture hall and a skills demonstration and test room. The new building will also house the academic offices for the Business Administration, Computer Science Information Systems, Emergency Services, Mathematics, Psychology/Statistics and Sociology/Ethnic Studies departments.

CONX SOLUTIONS

The ConXL 400 System was easily integrated into this architecturally unique, Design-Build project, which is intended to be LEED certified when completed. The ConXL System has been pre-approved by the Division of State Architect (DSA) for use in California schools since 2012.

KEY PROJECT DATA

84,000

Square Feet

16

Days to Erect Steel



STAKEHOLDERS

Owner	Los Angeles Valley College
Architect	ODG Architecture
Engineer	KPFF/Paragon
Contractor	Pankow Builders
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech
ConXtech Scope	Structural Steel, Decking

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com



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MISSION COLLEGE STUDENT ENGAGEMENT CENTER

EDUCATION

PROJECT NARRATIVE

This 100,000 square foot building represents the second phase of the existing main building replacement at the Mission College campus. ConXtech provided engineering, collars and fixtures for this three-story Student Engagement Center. The facility serves 1,000 students and faculty and is now the new main entry point for the campus. Originally targeting LEED Gold certification, the project is now certified LEED Platinum.

CONX SOLUTIONS

Mission College's commitment to sustainable building design requires that all new buildings achieve a minimum level of LEED Silver. The Lean and collaborative approach, along with Conxtech's Prefabricated Structural Steel System, fostered the creativity needed to achieve the end-user savings and functionality necessary to position Mission College as a sustainable campus and earn this distinction.

KEY PROJECT DATA

100,000

Square Feet

18

Days to Erect Steel



STAKEHOLDERS

Owner	West Valley-Mission Community College District
Architect	Lionakis
Contractor	Gilbane
Steel Fabricator	Olsen Steel
Steel Erector	Olsen Steel
ConXtech Scope	Structural Steel, Decking

CONTACT US

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E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com



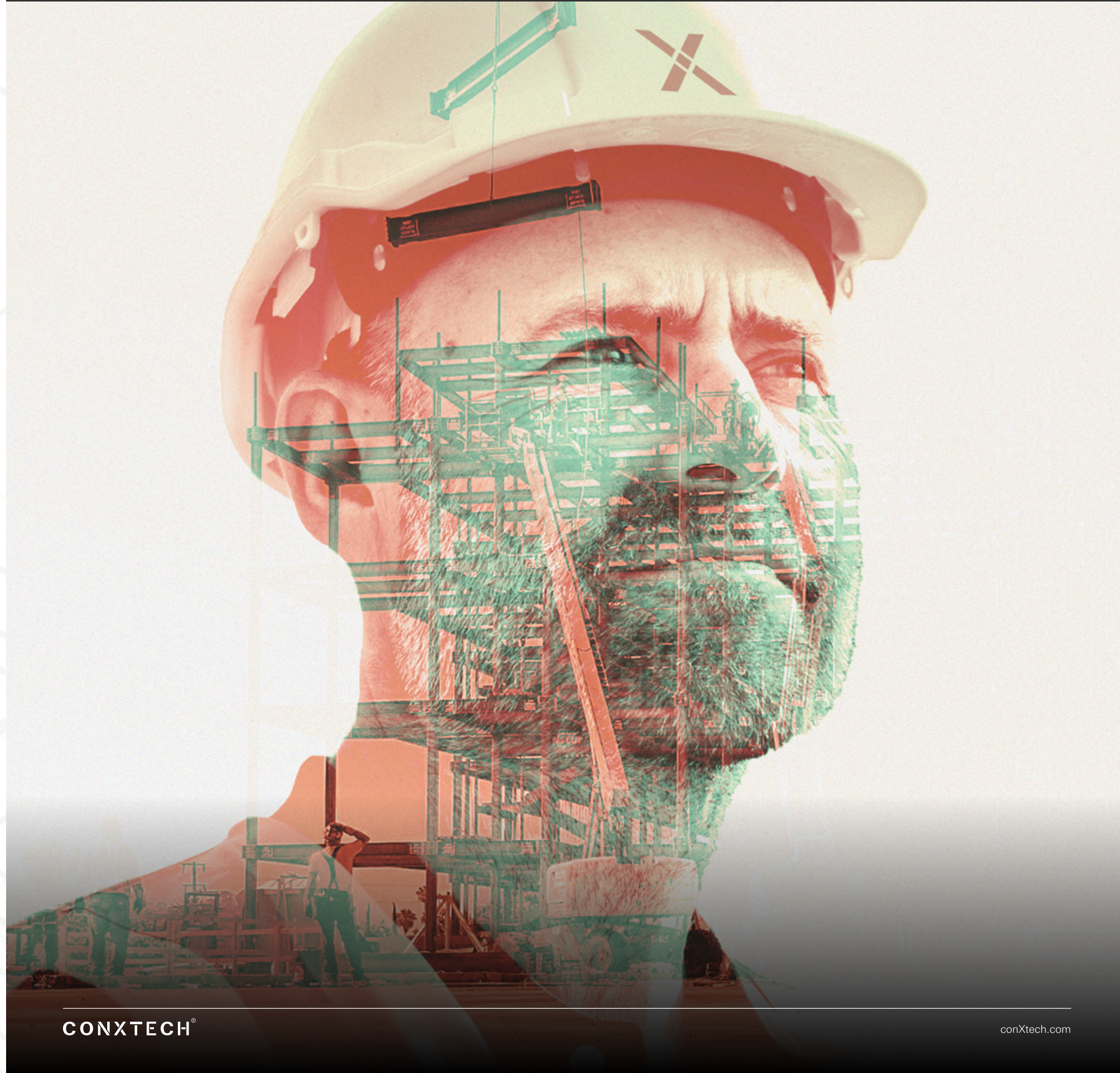
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1.3

Non-DSA California School System Project Experience





CBU ENGINEERING BUILDING EDUCATION

PROJECT NARRATIVE

This new 100,670 ft² Engineering facility at California Baptist University provides classroom, faculty and administrative space. Large, hangar-style doors connect the entrance and exhibit plaza, where students and faculty will be able to display ongoing projects. Some of the roof is accessible to students, including a solar-thermal lab, a photovoltaic farm and a green roof/ architectural lab.

CONX SOLUTIONS

The long spans inherently provided with the ConXL 400 System greatly assisted in the design features of this facility, including the open-air exhibit space behind the hangar doors which lead to the outside.

KEY PROJECT DATA

100,670

Square Feet

15

Days to Erect Steel



STAKEHOLDERS

Owner	California Baptist University
Architect	Gensler
Engineer	Walter P. Moore
Contractor	Tilden Coil Constructors
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com



STANFORD NEUROSCIENCE HEALTH CENTER MEDICAL OFFICE

PROJECT NARRATIVE

Located on the Stanford University campus, this 92,000 ft² medical office building is comprised of four levels of above grade clinic space and one basement level with an imaging department. This will be home to the Stanford Neuroscience Health Center, providing services in neurology, neurosurgery, interventional neuroradiology and related subspecialties.

CONX SOLUTIONS

Due to challenging site logistics, ConXL was the ideal solution for its ease of assembly with a conventional truck crane. Additionally, its inherently quick assembly time suited the general contractor's rigid schedule.

KEY PROJECT DATA

92,000

Square Feet

17

Days to Erect Steel



STAKEHOLDERS

Owner	Stanford Health Care
Architect	TEF Design
Engineer	Degenkolb Engineers
Contractor	Cahill Contractors
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel

CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com





SAN JOSE STATE STUDENT HEALTH CENTER MEDICAL OFFICE

PROJECT NARRATIVE

This three-story, 53,000 ft² facility on the San Jose State University campus provides complete health and wellness services and supports the university's overall student health services program. It includes exam and treatment rooms, offices and training workrooms, dental exam rooms, nursing and triage stations, among many other features.

CONX SOLUTIONS

Due to its open design layout with long-span glass windows and flexible open bays without diagonal braces, ConXL was the optimal solution for this structure. Architecturally exposed columns on the exterior and interior of the structure highlight the simplicity of the ConX System. On a bustling campus with over 32,000 students, the ConX frame assembly had minimal impact on day-to-day campus activities thanks to its modular assembly and smaller construction footprint.

KEY PROJECT DATA	
53,000 Square Feet	7 Days to Erect Steel

STAKEHOLDERS

Owner	SJSU
Architect	Ratcliff Architects
Engineer	Brian Foulk / Tipping Mar
Contractor	Blach Construction
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel, Metal Decking, Stairs



CONTACT US

ConXtech, Inc. 6600 Koll Center Parkway, Suite 210, Pleasanton, CA 94566
E-mail: info@conxtech.com | Phone: 510-264-9111 | www.ConXtech.com



STANFORD LAW SCHOOL EDUCATIONAL BUILDING

PROJECT NARRATIVE

The building, located on the Stanford University campus, provides 65,000 ft² of clinic, seminar, meeting and office space. It is efficient, smart, flexible, welcoming and was value-engineered to reduce overall environmental impact. The structure satisfies the equivalent of a LEED® Gold Certification by meeting sustainability requirements in site planning, water management, energy use, materials, resources, waste, indoor environmental quality, innovation and design.

CONX SOLUTIONS

Comprised of four separate wings, this building incorporated a unique slider beam section composed of furon-covered plates at every bridge linking the wings. Specific column shapes were selected for building corners to maintain the sensitive architectural design. ConXtech's advanced Building Information Modeling streamlined design fabrication & delivery, particularly for the logistically challenging roof framing.

KEY PROJECT DATA	
65,000 Square Feet	17 Days to Erect Steel

STAKEHOLDERS

Owner	Stanford University
Architect	Ennead Architects
Engineer	Degenkolb Engineers
Contractor	Dome Construction
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel



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UC MERCED STUDENT HOUSING

PROJECT NARRATIVE

The UC Merced Summits project is a five-story, 364-bed, 110,000 ft² Student Housing Facility. Trades employed BIM integration, sharing models in a collaborative 3D environment for communication and clash management. ConXtech Manufacturing utilized automated modular detailed connections, shop drawing production, electronic BOMs and nesting, and CNC data. Output from Tekla Structures enabled sophisticated MRP program use in manufacturing and field assembly.

CONX SOLUTIONS

Enabled by ConXtech's standard part database and pre-programmed, auto-connecting components, subcontractor Dowco Consultants efficiently provided detailing services for non-core component modeling. Detailing setup, connection design, and connection application in the model were significantly simplified and faster compared to traditional steel detailing. ConXtech pre-planned daily work packages for the ConX Certified Erector, Bragg Crane and Rigging, to assemble at an astonishing rate of 120 to 160 pieces per day.

KEY PROJECT DATA	
110,000	20
Square Feet	Days to Erect Steel



STAKEHOLDERS

Owner	University of California
Architect	EHDD Architecture
Engineer	GFDS San Francisco
Contractor	ProWest Constructors
Steel Fabricator	ConXtech Manufacturing
Steel Erector	Bragg Crane & Rigging
ConXtech Scope	Structural Steel, Decking

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UC MERCED MEDICAL EDUCATION BLDG.
EDUCATION

PROJECT NARRATIVE

We're thrilled to share exciting progress from the University of California, Merced Medical Education Building, a project that will bring much-needed medical training facilities to the Central Valley. This 4-story, 203,500 sqft. facility will be home to future academic and research breakthroughs and will house:

- The departments of Psychological Sciences and Public Health
- The Health Sciences Research Institute
- Allied healthcare-related programs (developed in partnership with community colleges)
- A range of medical education and general assignment learning environments, including specialty learning spaces for anatomy, medical simulation, and a clinical skills training center.

KEY PROJECT DATA	
203,500	56
Square Feet	Days to Erect Steel



STAKEHOLDERS

Owner	Peralta Community College District / University of California
Architect	ZGF Architecture
Engineer	Thornton Tomasetti
Contractor	Turner Construction
Steel Fabricator	Preacero Pellizzari
Steel Erector	Bambacigno Steel Company
ConXtech Scope	Structural Steel, Decking

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CAL LUTHERAN UNIVERSITY SWENSON SCIENCE CENTER EDUCATION

PROJECT NARRATIVE

The building is a three-story, 47,000 SF science laboratory building located near the center of campus. An enclosed bridge connects the Math and Sciences building to the second floor of the adjacent building to the north. Architectural features include glass enclosed, two story entry areas, glass enclosed feature stairs, and a building identification monument feature.

CONX SOLUTIONS

Conxtech's Moment frame solution overcame strict vibration criteria for labs and sensitive equipment for many disciplines including:

- Biomechanics, organic synthesis
- Physiology, neuroscience
- Marine biology
- Cell and developmental genetics
- Exercise physiology ergometry
- Nuclear magnetic resonance



KEY PROJECT DATA	
47,000	9
Square Feet	Days to Erect Steel



STAKEHOLDERS	
Owner	California Lutheran University
Architect	Rasmussen and Associates
Engineer	Risha Engineering
Contractor	W.E. O'Neil
Steel Fabricator	ConXtech Manufacturing
Steel Erector	ConXtech Construction
ConXtech Scope	Structural Steel

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NORTH COMMONS STUDENT HOUSING

PROJECT NARRATIVE

This eight-story, 340 bed student housing complex is the fourth student housing complex of its kind in North City, a thriving new development in San Marcos just north of California State University, San Marcos (CSUSM). Located near the commercial and retail amenities of North City Drive, the building is linked to the University with an arching pedestrian bridge that provides students with convenient and safe access to the campus.

CONX SOLUTIONS

The long spans inherently provided with the ConXL 400 System greatly assisted in the design features of this facility, the three iconic housing clusters with 340 beds that are organized around two courtyards that represent expansive community space for students.

KEY PROJECT DATA	
99,250	27
Square Feet	Days to Erect Steel



STAKEHOLDERS	
Owner	CSUSM/Sea Breeze Properties Partnership
Architect	Safdie Rabines
Engineer	KPFF
Contractor	Turner
Steel Fabricator	ConXtech Manufacturing
Steel Erector	Conxtech Construction
ConXtech Scope	Structural Steel, Decking

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1.4 Safety



Safety Management



ConXtech’s health and safety program is embedded in our cultural and values. We believe it is the responsibility of every ConXtech team member to model safe behavior, and ConXtech requires everyone involved in a construction project be held accountable for safety, including any subcontractors, safety personnel, supervisors, and site workers.

Site Health, Safety, and Environmental Services (HSE)

The ConXtech Safety Manager is an ingrained team member on each job, providing insight, training, and guidance. Importantly, they, like the on-site superintendents, also have the authority to immediately stop any unsafe job site activity or practice. Before the first steel hits the ground on a new project, the process of ensuring proper safety protocol and OSHA compliance on the job site has already begun.

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Safety is an Everyday Part of the Work

ConXtech HSE provides the following services on the job site:

- Construction HSE Manual and Site Specific HSE Plan
- ConXtech employee and subcontractor training (Site HSE Orientation)
- Hazards Assessment
- Hot Work Permits and other required safety permits
- Safety inspections and observations
- Subcontractor task/ job specific hazard training
- Incident Management
- Protection of The Public
- Record keeping and Reporting

ConXtech Site Safety and Security Highlights

ConXtech employs its own Corporate Safety Director, whose only function for the past decade is to inspect job-sites on a regular basis, supporting field personnel with information, a critical eye, and mentoring about best safety practices. ConXtech’s safety record lends itself to good management and enforcement of common sense as well as safety regulations. Our Safety Program includes the following components:

- Written Safety Program
- Company-wide Mandatory Safety Training
- Company-wide Safety Meetings every quarter
- Random Safety Inspections on all job sites
- On site Weekly Safety Meetings
- Infection Control Risk Assessments

Occupational Safety and Health Policy

All ConXtech employees involved in construction supervisory capacity are at least OSHA 30 Hour certified, and usually have much more in-depth training. It is ConXtech goal to act positively to prevent injury, ill health, damage, and loss arising from its operations, and to comply with all safety and health measures required by law.

ConXtech believes that all work-related injuries, illness, and property damage are preventable and that safety is good business. The most important factor in the undertaking of anyone’s job is the prevention of injury or ill health to any employee. ConXtech considers safety to be its number one value.

Environmental Policy

Protecting our shared environment is of fundamental importance to ConXtech, as it is to our employees, customers, and stakeholders. To support this common goal, we will:

- Protect the health and safety of our employees, surrounding communities and ecosystems.
- Continually improve the environmental performance of our products and processes.
- Use natural resources, including raw materials, energy, and water, as efficiently as possible.
- Comply with applicable local, state, and federal environmental regulations.

COVID-19

Our response to the COVID-19 pandemic has been in alignment with all WHO and CDC guidelines, state-specific Coronavirus response protocols along with federal directives. These include the development of a ConXtech COVID-19 Emergency Response Plan, establishment of a COVID-19 coordinator, employee education, postings of literature/posters/etc., Providing adequate quantities of sanitizing materials, promotion of physical separation/ barriers between employees, distribution of PPE frequent cleaning/sanitizing of commonly-touched surfaces, screening all employees for symptoms at the start of each shift, limiting of visitors, and screening essential visitors/vendors/non-employees prior to entry onto job sites, manufacturing facilities, and offices.





1.5

Leadership Team



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ConXtech Leadership



Robert Paulk
President

Captain Paulk, a 1984 graduate of the U.S. Naval Academy, retired in 2014 after 30 years of Active and Reserve naval service that culminated with three decorated command and overseas combat tours (2007-2012) in Afghanistan, Iraq, Kuwait, and the United Arab Emirates. In his private career, he has held numerous senior leadership positions in both large national and regional private businesses and non-profit organizations.

Recently, he served as Pogue Construction’s Chief Operations Officer (COO), a \$600 million general contractor located in McKinney, TX. During his 6 years as COO he led multiple key reorganization and staffing initiatives, corrected project on-time completion performance, and helped drive record annual revenues and profit in 2018, 2019, and 2020. Concurrently, Pogue Construction received regional and national recognition for construction volume and as a “best place to work.”



Adam Kurtenbach
Vice President of Business Development

Adam Kurtenbach has been in the modular construction industry for over 20 years. He joins ConXtech from KATERRA, where he was most recently the Director of Business Development for the PNW. In this role, Adam was responsible for oversight of almost \$500 million in project sales. Previous to his stint at Katerra, Adam ran Business Development for Urban Edge Builders (UEB) where he helped establish their Seattle office and was involved in bringing the first high-rise to the University of Washington district in over 30 years; The M. Adam is a firm believer in the power of innovative, modular, sustainable building practices and their ability to change the built environment for the better. A long-time hockey and lacrosse coach and player, Adam believes in the parallels between these sports and the construction industry; namely, grind to succeed, be accountable every day, and team before individual.



Josh DeLehman
Senior Director, Business Development

Mr. DeLehman joins ConXtech with 15 years of experience in engineering and construction for the energy, mining, and infrastructure industries. His roles have included senior positions in both Supply Chain Management and Business Development, with an emphasis on construction support services and manufacturing. A common thread in Mr. DeLehman’s career has been risk mitigation through shifting work from the job site into controlled shop environments where certainty of cost, quality, schedule and safety are more readily achievable. This focus is expected to serve Mr. DeLehman well as he works to grow ConXtech’s core business. Mr. DeLehman holds a Bachelor’s of Science in Business Administration from the University of North Carolina at Chapel Hill’s Kenan-Flagler Business School.



Adam Browne S.E., P.E.
Chief Engineering Officer

As the CSEO, Mr. Browne is responsible for ConXtech’s standardized calculations and design methodologies. He also provides technical recommendations and guidance to outside engineering firms working with the ConX System.

Mr. Browne is a licensed California structural engineer with over 20 years of experience. He has a bachelor’s degree in mathematics from the University of California at Santa Cruz and studied structural engineering at San Francisco State University before joining the firm BFL/OWEN in 1994. Before joining ConXtech in 2012, Mr. Browne was the EOR at FBA and Associates, responsible for the structural design on the first 2 million square feet of ConX structure. There, he was integral in establishing acceptability of the framing system with various building departments and jurisdictions.



Kevin Chambers
Vice President of Industrial Operations

As Vice President of Industrial Operations, Kevin is responsible for growing and executing work in the Process Industry, larger commercial markets such as data centers, and responsible for work with our international clients. Before coming to ConXtech, Kevin worked as a consultant in Project Management for a private company in Houston. Prior to that he spent ten years executing projects in the process industry that ranged in costs of \$50MM to \$3B. His responsibilities ranged from business development to engineering and design to project management.

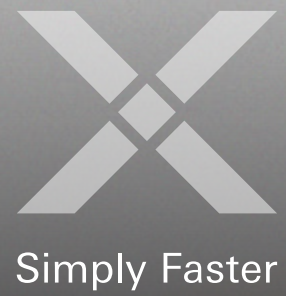
Kevin received his Bachelor’s Degree in Civil Engineering from Texas Tech University and has worked in several different markets prior to attending college. In his youth, he worked as a laborer and welder for companies like Fluor and smaller commercial companies.



Stephen Boyd
Vice President, Technology & Operations

As VP Technology, Stephen is responsible for ConXtech’s core products, as well as the hardware, software, processes, and systems needed to successfully execute ConX-based projects. He is a passionate technology leader and innovator driving scalability for ConXtech’s products and setting the stage for long-term growth. As one of the engineers responsible for the XL300 industrial system, Stephen has developed a deep knowledge of the ConXtech product portfolio and all of the underlying systems enabling its success. He has led cross-functional engineers to drive product improvements and scalability that have enabled successful deployment and implementation of ConXtech technology.

With a Bachelor of Science Mechanical Engineering degree from Union College, Stephen’s background gives him exposure across engineering disciplines.





Thank you.

For more information, please contact:

Josh DeLehman
Senior Director, Business Development
(949) 572-8345
jdelehman@conxtech.com

Conxtech Headquarters
6600 Koll Center Parkway, Suite 210
Pleasanton, CA 94566
T (510) 264-9111 F (510) 264-1181
CA Contractor's License NO. 855525

conxtech.com

