

Drywall & Ceiling-Framing Contractors

30+
years

pinnacleinfotech.com



**Pinnacle
Infotech**

Construct
Certainty, with
Technology

Mission

Help the AEC industry optimize resources, cost and quality through innovative use of technology for:

- Sustainable and efficient design
- Collaborative pre-construction planning
- Agile construction process
- Reliable facility management

Vision

Lead the global AEC industry to certainty and efficiency using technology.

Associations:



Our Values

- E Excellence**
We take pride in our passion for excellence. It is a way of life for us.
- A Agility**
We are always at the edge of technology and driven by agile transformations.
- R Reliability**
We have ISO-certified processes and workflow to produce consistent and reliable performance.
- T Teamwork**
Pinnacle provides an environment where teams collaborate effectively to excel.
- H Honesty**
We win the trust of our stakeholders through integrity, straightforwardness, and transparency.

Our Way of Giving Back

Ankuran Foundation

A first-of-its-kind, not-for-profit, national network of world-class learning centers that impart Science Education through experiential learning to school students from diverse backgrounds. To learn more, visit Ankuran.org

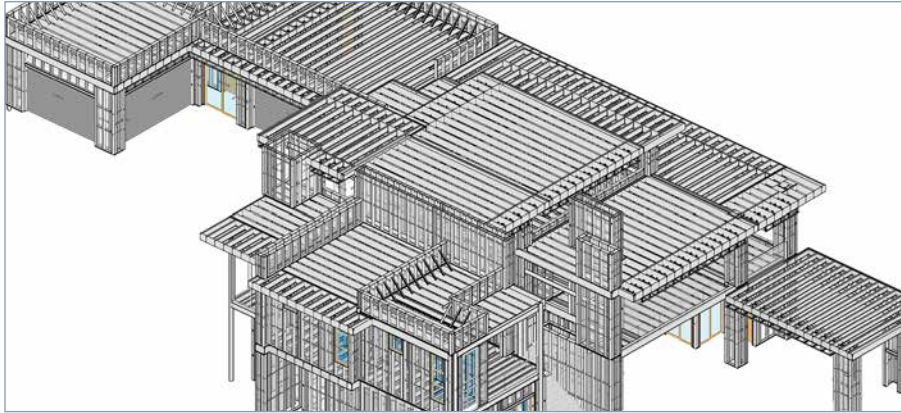


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1. Revolutionizing Drywall & Ceiling-Framing Segment of AEC Industry



Drywall & Ceiling-Framing Model

Time and cost are the major key factors that have a great influence in all AEC Ventures. Be it any segment or any stakeholder of an AEC Project, major strive stays focused on cost and time management. BIM, with its revolutionary standards and potential to facilitate the construction process, has lots of privileges from Drywall and Framing Contractors.

Pinnacle Infotech, with its long years of presence in the industry, has helped the AEC professionals of all segments by accurate and task-oriented implementation of BIM. Pinnacle offers BIM services for drywall contractors modeling with constructability review, clash coordination, shop drawings, quantity take-off, and virtual mock-ups. Our industry experts automate metal stud placement and eliminate the laborious process of manual placement of metal studs. We are conversant with all prevalent international software applications like Autodesk Revit.

Pinnacle Infotech has been acknowledged as the global leader in providing innovative BIM solutions. Various awards and recognitions from corporate and government levels certify our experience and expertise in project management and service deliverance. Our process orientation and quality control are per ISO standards – 9001:2015, 27001:2013, 19650-2, 19650-3, and 19650-5, plus EMS 14001:2015. As holders of **ISO 19650-5**, the esteemed international certification for BIM services, we ensure adept data management and transparent collaboration.

With 30+ years of global service in 43+ countries, Pinnacle boasts a robust portfolio of 15,000+ successful projects, granting unmatched expertise in international building codes and procedures. Our global delivery system ensures constant client contact, erasing geographic barriers.

2. What is BIM ?

Building Information Modeling (BIM) is the creation and use of coordinated 3D model via link to intelligent database for a construction project. BIM enables seamless collaboration between Architects, Engineers, Contractors and Sub-Contractors which enables quick decision making, accurate construction documents, better construction management and facilities management.

3. Benefits of BIM

Coordination

Streamline communication with 3D visualization among all stakeholders for quick decision making during design and pre-construction phase.

Efficiency

Eliminating work stoppages and rework by checking the accuracy and completeness of drawings before starting construction on-site/off-site.

Quality

Improving Quality by producing accurate Shop Drawings directly from the 3D BIM model which could also be used for pre-fabrication.

Savings

Pre-construction and Pre-fabrication reviews mean better use of manpower, better quality construction and reduced rework and wastage, all of which translate into lower costs.

Project Management

Detailed Material BOQ and Shop Drawings with 3D visualization enable a better look at “The Big Picture” and aid in the review, scheduling and monitoring of each project.

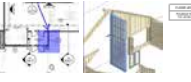

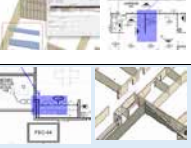




Our clients have reported up to 15% cost savings by successfully implementing BIM

4. Constructability Review & Analysis

Virtual Construction of project in BIM enables Independent Review of the Construction Plans and Specifications. This identifies discrepancies in drawings and all constructability issues at preconstruction stage. During the constructability review, our BIM team generates a series of RFI's to identify following type of constructability and operational issues:

- Missing information / documents
- Input inconsistencies
- Conflicting data

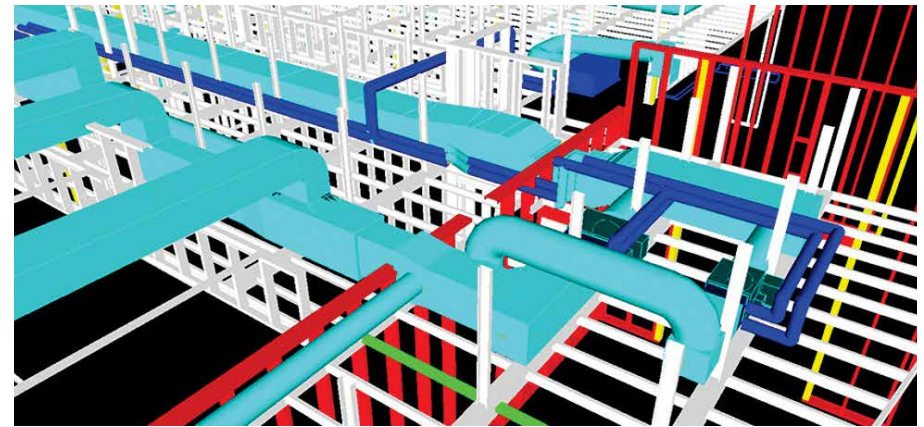
BIM model is updated based on responses of RFI's. Status of all RFI's is maintained in a log and follow-up is done to resolve them at preconstruction stage. This eliminates work stoppages and rework during construction.

SLNo	Trade	Description	Response	Attachment	Attachment Location
1	Structural	The highlighted area has a 8" wall, but we do not have an 8" specification of a stud in the IFC Binder. We have attached the Revit Snap for reference. PIS Assumption: We have framed the wall as 2x8 Dimensional Lumber as of now. Please review & suggest.	Will have to look into this one. I'm curious where they're getting 8" from though? We shouldn't have any walls that require an 8" stud.		A02-01A, S05-01
2	Structural	The highlighted area shows a wall that has a metal stud in the structure layer, but there is only information(S05-01) and Detail (6/A06-41) about wooden stud walls in the IFC Binder(Highlighted). We have attached the Revit Snap for reference. PIS Assumption: We have framed the wall with wooden stud as per the detail (6/A06-41). Please review & suggest.	We have a steel column at this location. Not a metal stud. Sheet S02-01A shows a column type FS here with a BP4 base plate.		A02-01A, S05-01 & A06-41
3	Structural	The highlighted area shows a wall that has metal stud in structure layer but there is only information about wooden stud walls in the IFC Binder. We have attached the Revit Snaps for reference. PIS Assumption: We have framed the wall with wooden stud as of now. Please review & suggest.	This wall has glass in it, so maybe that's what appears to be a metal stud. Detail 03/A07-41 kind of shows this glass, for reference. The specific glass is type 22 (as denoted on A02-01A) and can be seen on A08-21.		A02-01A, S05-01
4	Structural	The highlighted area shows a wall in the architectural plan whereas it is not found in the provided Revit Model. We have attached the Revit Snap for reference. PIS Assumption: We have framed the wall as of now. Please review & suggest.	No comment... I think the wall is supposed to be there.		A02-01B
5	Structural	The highlighted area shows a soffit wall that clashes with the interior wall. We have attached the Revit Snap for reference. PIS Assumption: We haven't framed the soffit wall as it was clashing. Please review & suggest.	We do have soffits here, but obviously the intent is not for these to be clashing with other walls.		A02-01C
6	Structural	On Sheet A02D-01A, the marked dimensions do not match with the given Revit model. Please take a look at the provided Revit Snap for reference. We have typically encountered this issue. PIS Assumption: We have framed the wall as per the model we received. Please review and suggest.	The top dimension of 11'-4 3/4" is correct in model. We've received an updated A02D-01A which corrected this. Please double check the dimension you have shown at bottom though, as it appears to be incorrect.		A02D-01A
7	Structural	On Sheet S03-01, the marked Grid dimensions are not matching with the grid dimensions given in the revit model. Please take a look at the attached sheet No. CFS-FF-01. We have faced this issue typically. PIS Assumption: We have framed the wall as per the model we received. Please review and suggest.	Our PCR-01 issuance corrected some of these dimensions, which may match the model.		S03-01A, CFS-FF-01
8	Structural	On Sheet A02D-01A, the marked walls are not showing in the provided Revit model. Please take a look at the given Revit Snap for reference. PIS Assumption: We have framed the wall as per the model we received. Please review and suggest.	Our PCR-01 issuance removed this wall in the conference room. The model is correct.		A02D-01A

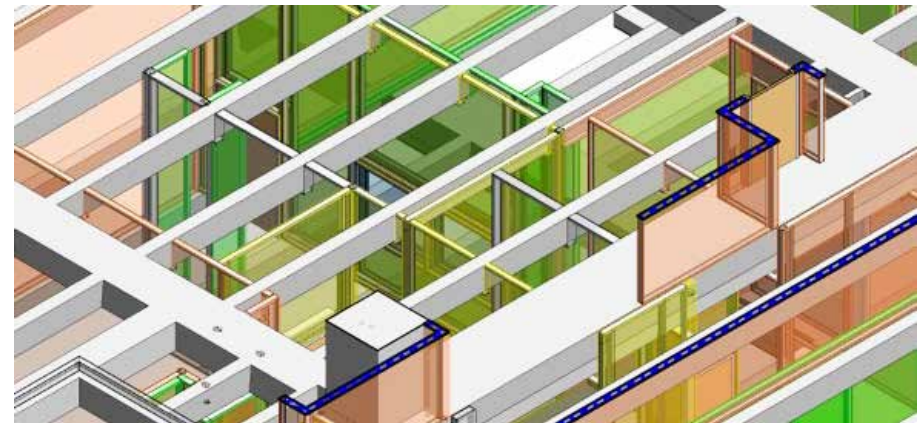
5. Clash Coordination

BIM Model is prepared in different dimensions to individually deal with the geographical representation of the model and to see how it will look when constructed. It is also to flesh out any faults in the design so that the project comes out accurate and as expected.

BIM coordinated and collaborated with architectural, structural and MEP engineering disciplines can streamline the design process, identify clashes and resolve them during the design stage. It has proved to provide many benefits to construction projects and hence is being used by more and more architects and engineers.



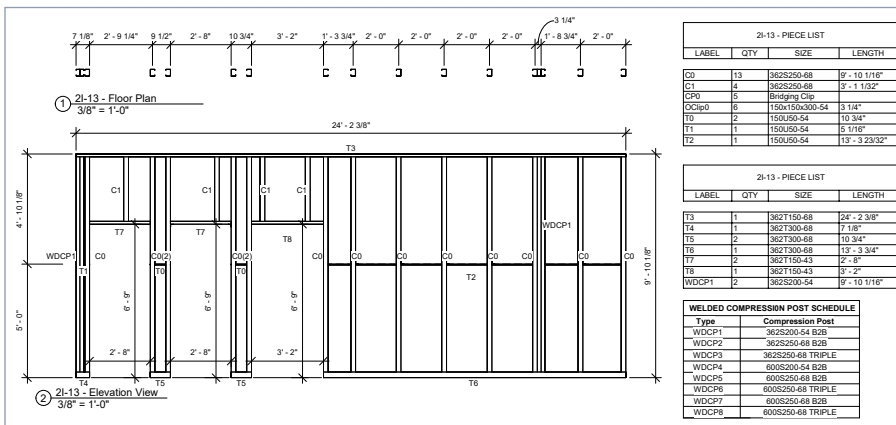
Coordinated Model of Stud Framing & Mechanical



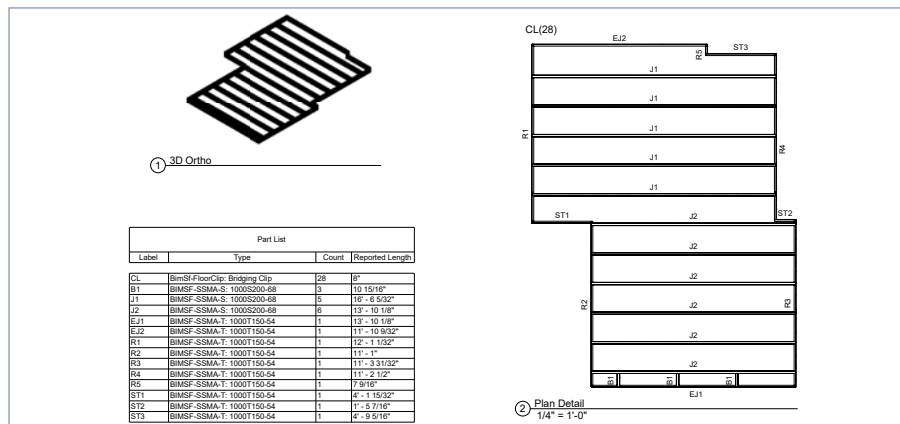
Coordinated Model of Stud & Structural Framing

6. Shop Drawing

Shop drawings are typically a set of drawings required for prefabricated components and include dimensions, manufacturing standards and fabrication details. Architectural building information modeling (BIM) has its roots in conventional 2D shop drawing. Coordinated shop drawing is a combined 3D rendering of the construction project by integrating all architectural, structural and trades shop drawings. A drawing or a set of drawings, which are required for prefabricated components like trusses, elevators, structural steel, windows, cabinets, appliances, mill-work and air handling units and produced by the contractor, supplier, manufacturer, fabricator or sub-contractors, are called shop drawings.



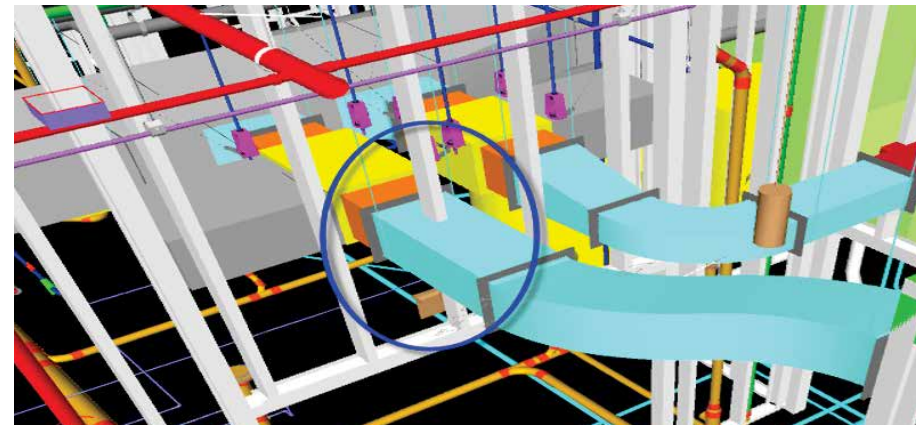
Shop Drawing – Wall Panel



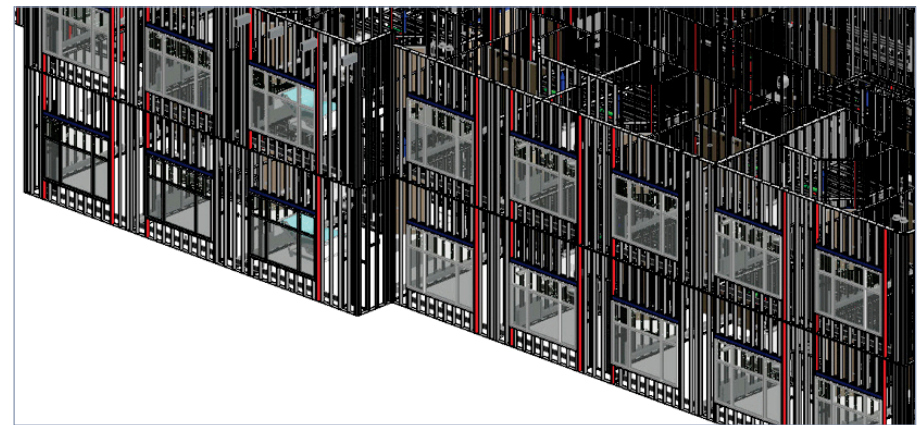
Shop Drawing – Floor Panel

7. Drawings By Pinnacle to Help Contractors at Coordination Phase

- Color-coded members to differentiate priority walls, posts, opening framing & other members
- Dimensions relevant to framing placement
- Configuration of full-height walls at doors, handrails & corners
- Mechanical systems in conflict with walls
- Details of bracing rated lid & partial height walls to nearby walls
- Wall drawings with elevations, type identifiers & lateral dimensions for backing plates & openings



Duct is clashing with wall stud (3D Model in Navis)



Colour Coding for Critical Stud Elements

8. Model based Quantity Take-off and Estimation

The feature of model-based quantity takeoff & estimation function of BIM holds the roots to significant automation and innovation in the building construction industry. Model-based quantity takeoff & estimation connects a 3D object, its parts and the entire assembly model to the external third party cost estimating software. Whenever a change in the design geometry or quantity is changed, the changes are automatically reflected in the cots.

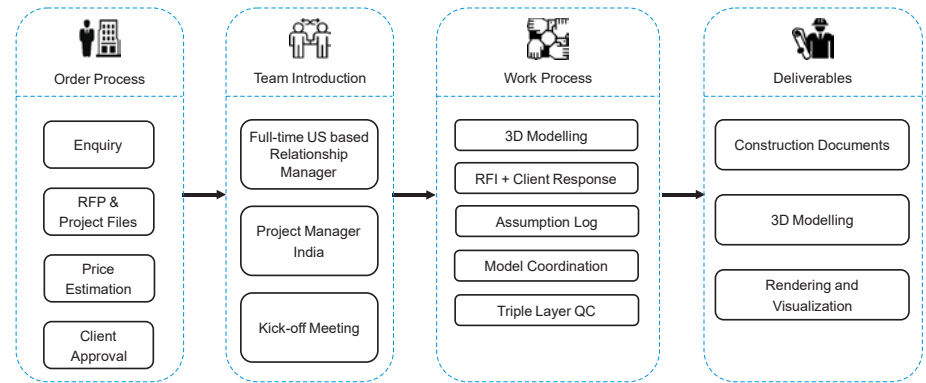
Wall Panel-Main Level					Box Header Piece List - Level 3				
Panel Name	Label	Count	Type	Length	SL.NO	Type	Length	Count	
L2-E-01	T1	2	150U50-54	11 7/8"	1	362T150-54	6' - 8 15/16"	2	
L2-E-01	C1	1	600S200-54(50)	2' - 11 7/8"	2	362T150-54	6' - 9 3/16"	2	
L2-E-01	T3	1	600T150-54(50)	3' - 0"	3	362T150-54	6' - 9 5/16"	4	
L2-E-01	T0	2	150U50-54	5' - 0"	4	362T150-54	6' - 9 1/2"	2	
L2-E-01	T2	2	600T150-54(50)	9' - 0"	5	362T150-54	6' - 9 9/16"	48	
L2-E-01	C0	8	600S200-54(50)	12' - 0 7/8"	6	362T150-54	6' - 9 19/32"	2	
L2-E-02	T0	2	150U50-54	1' - 5 7/8"	7	362T150-54	6' - 10 3/16"	4	
L2-E-02	T3	1	600T150-54(50)	3' - 0"	8	362T150-54	7' - 0 11/16"	4	
L2-E-02	T1	2	150U50-54	7' - 0"	9	362T150-54	7' - 11 1/2"	2	
L2-E-02	C1	2	600S200-54(50)	8' - 11 3/8"	10	600T150-54	4' - 4 1/16"	6	
L2-E-02	T2	2	600T150-54(50)	11' - 6"	11	600T150-54	4' - 4 1/8"	2	
L2-E-02	C0	9	600S200-54(50)	12' - 0 7/8"	12	600T150-54	4' - 4 3/16"	2	
L2-E-03	T0	2	150U50-54	1' - 4"	13	600T150-54	4' - 4 1/4"	4	
L2-E-03	T1	2	600T150-54(50)	1' - 4"	14	600T150-54	4' - 5 3/4"	2	
L2-E-03	C0	2	600S200-54(50)	12' - 0 7/8"	15	600T150-54	4' - 6 5/8"	2	
L2-E-04	T1	2	150U50-54	9 7/8"	16	600T150-54	4' - 7 1/8"	2	
L2-E-04	C1	1	600S200-54(50)	2' - 11 7/8"	17	600T150-54	4' - 7 5/8"	2	
L2-E-04	T3	1	600T150-54(50)	3' - 0"	18	600T150-54	4' - 7 3/4"	10	
L2-E-04	T0	2	150U50-54	3' - 7 7/8"	19	600T150-54	4' - 7 25/32"	2	
L2-E-04	T2	2	600T150-54(50)	7' - 6"	20	600T150-54	4' - 7 27/32"	2	
L2-E-04	C0	7	600S200-54(50)	12' - 0 7/8"	21	600T150-54	4' - 7 7/8"	14	
L2-E-05	T5	1	600T150-54(50)	3' - 0"	22	600T150-54	4' - 7 31/32"	2	
L2-E-05	T0	2	150U50-54	3' - 5 7/8"	23	600T150-54	4' - 8"	20	
L2-E-05	T1	2	150U50-54	4' - 11 7/8"	24	600T150-54	4' - 8 1/2"	2	
L2-E-05	C1	1	600S200-54(50)	8' - 11 3/8"	25	600T150-54	4' - 11 25/32"	4	
L2-E-05	T2	2	600T150-54(50)	11' - 6"	26	600T150-54	5' - 2 1/2"	2	
L2-E-05	C0	9	600S200-54(50)	12' - 0 7/8"	27	600T150-54	5' - 8 1/8"	2	
L2-E-06	T0	2	150U50-54	1' - 1 7/8"	28	600T150-54	5' - 8 1/4"	2	

BOQ Sample

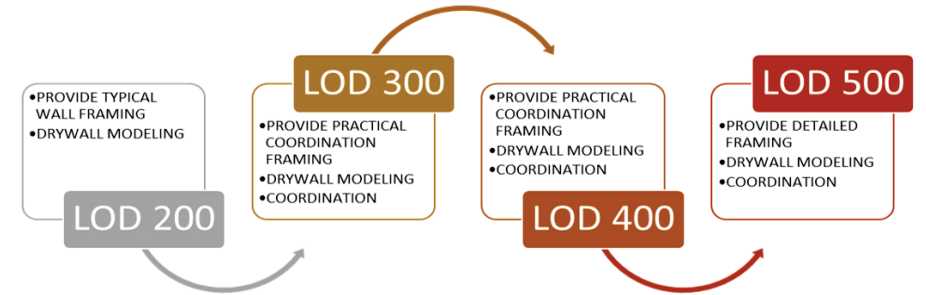
9. Elements Considered for Drywall & Ceiling Framing Scope

- Interior and exterior Metal and Wood Framed walls
- Interior ceilings, furredowns, and exterior soffits
- Acoustical lay-in ceiling grids modeled in 3D for overhead MEP coordination
- Critical studs for MEP coordination
- Metal stud kickers above ceilings to aid in overhead coordination
- Shop drawings
- Metal stud wall blocking modeling and shop drawings

10. Project Workflow



11. LOD Matrix for Drywall & Ceiling-Framing 3D Model



Wood Structure

12. Why Pinnacle

Each of our employees has ingrained in themselves the core values - 'EARTH' of our organization.



Excellence



Agility



Reliability



Teamwork



Honesty

Excellence

Excellence is a way of life for us. Our commitment to hard work, creativity, and innovation allows us to reach our full potential in approach, operations, and collaborations. We foster a culture of excellence from the ground up within our organization to achieve operation at the highest industry standards.

Agility

We understand that every business is different. We are highly agile and can adjust quickly to changing market conditions and client requirements. In addition, we offer a variety of business models to suit your specific needs at competitive prices.

Reliability

Pinnacle relies on trusted processes to consistently produce excellent results. We have over 30 years of experience in the AEC industry, and our work processes are ISO-certified.

Teamwork

We work together to scale every challenge. We understand that it is only through teamwork that we can provide the best possible results for our customers. Pinnacle fosters a team-oriented culture where everyone is valued, and their contributions are encouraged and recognized.

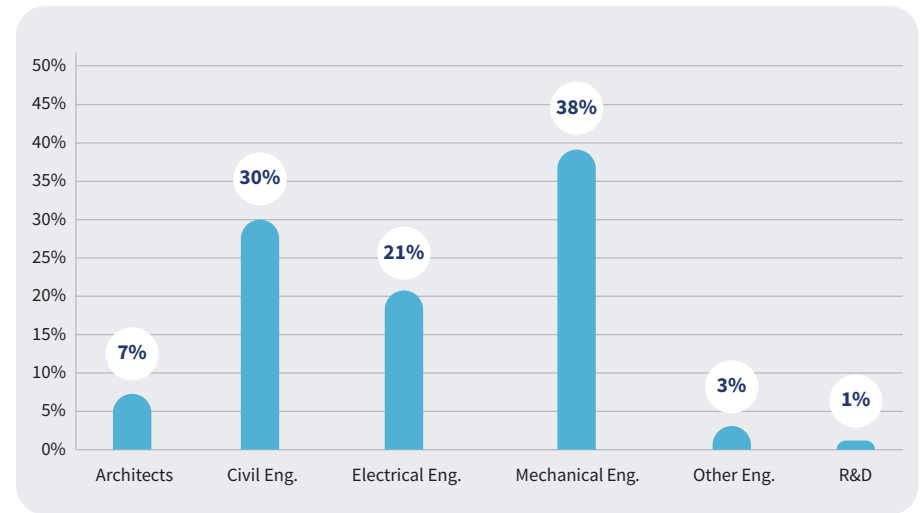
Honesty

Honesty is our key value, and we hold ourselves to the highest standards of integrity. We strive to be transparent and clear in our communication to ensure that our clients get the best value for the money.

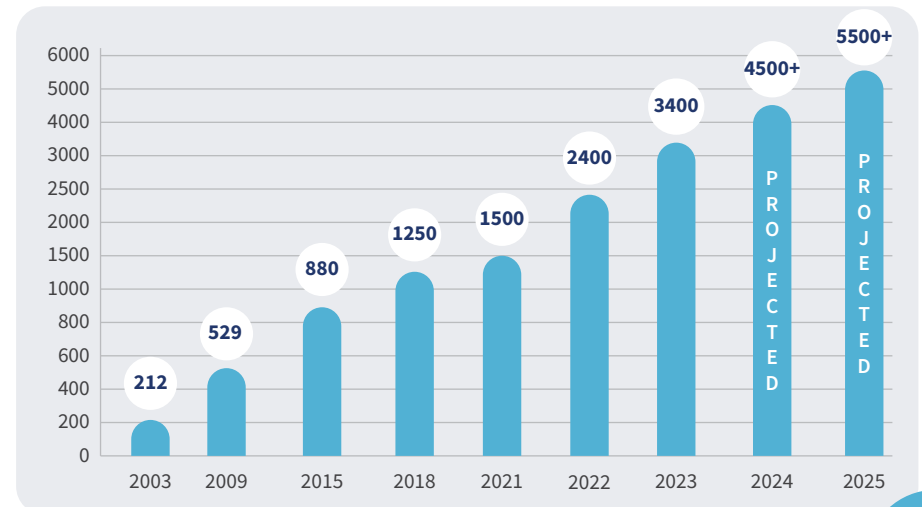
13. Our Team

Pinnacle's significant contribution to Building Information Modeling is made possible by its highly qualified and experienced workforce, including engineers, architects, and other experienced professionals. All our employees are well-versed in handling international construction codes and standards. We are proud of the diverse team and their global experience.

Employee Background



Workforce Growth



14. Our Infrastructure

Pinnacle has large state-of-art campuses in Durgapur, Jaipur, Kolkata & Madurai, comprising facilities like High-speed Bandwidth, Blade servers, an R&D center, a Datacenter, recreational zones, playgrounds, and more.

We also have equipped global delivery centers in the US (Houston, Atlanta, and San Jose), Canada (Toronto), UK (London), UAE (Dubai), Singapore, Germany (Munich), and Japan (Tokyo) that allow our employees to work in the same time zone as our customers.

Pinnacle's Construct-ability Installation Lab gives construction site experience to employees, integrating theoretical learning with practical experience. It enables our employees to deliver BIM solutions on time and with accuracy.



15. Our Work Processes

We strongly emphasize the significance of efficient work process management and consistent communication in the context of outsourcing services. Our process orientation and quality control are per ISO standards – 9001:2015, 27001:2013, 19650-2, 19650-3, and 19650-5, plus EMS 14001:2015. As holders of **ISO 19650-5**, the esteemed international certification for BIM services, we ensure adept data management and transparent collaboration. On orders, we assign a dedicated Relationship Manager, a competent Project Delivery Head, and Project Managers for focused execution.

Relationship Management

Our relationship managers are co-located with customers, ensuring clear communication, managing timelines, and handling deliveries promptly to surpass customer expectations. They advise customers on the services Pinnacle provides and build long-term business relationships.

Production Process

Project teams report to Project Delivery Head (PDH). The PDH provides technical leadership to the team and ensures standard work processes (as per ISO norms) are followed. They oversee project delivery. Project Delivery Heads periodically communicate with the client to get regular feedback and ensure the successful completion of the project.

Project Managers handle small teams for a customer and are responsible for understanding project requirements, project standards, invoicing processes, and communication protocols. They prepare project templates per project specifications, plan resources and align project delivery schedules.

Auditing Process

The COE team is an independent body in the company for Process and quality management and monitors the process and quality through various audit parameters, sets up feedback management processes, carries out investigations in case of any complaints/concerns, and provides action items. This way, Pinnacle ensures consistency in the final deliverables throughout the company.

Quality Control Process

Pinnacle's efficient processes and stringent quality control mechanisms have added certainty to 15000+ projects worldwide. Our process orientation and quality control are per ISO 9001:2015, ISO/IEC 27001:2013, ISO 19650-2, ISO 19650-3, and **ISO 19650-5** standards and are managed by an independent QC team.

16. Our Projects

The Royal Blue Luxury Apartments

Mineola, New York, USA



MGM Springfield Resort

Springfield, Illinois, USA



HMH Centennial Tower

Houston, Texas, USA



Cal Poly Humboldt Student Housing

Arcata, California, USA



Northside Hospital Gwinnett

Lawrenceville, Georgia, USA



Biosolids Digester Facilities

San Francisco, California, USA



17. Clients Speak

“First time we are contractually required to provide BIM for our trade. And, to date, we are happy with our choice to work with Pinnacle.”

JD Traditional Industries, USA

“Pinnacle has been a great company to work with, and they have helped me to create a functional model that aids in coordination efforts.”

The Altman Companies, USA

“For the first time working with Pinnacle on a very complex project, it as went really well.”

Drake Interiors, USA

“Greatly appreciate the timely submissions. Communication has been very clear, non-repetitive and prompt. Clarifying and examining the scope details prior to submissions has been good.”

IGS, USA

“The Pinnacle team was very responsive and adapted to our local jurisdictions' standards very quickly. We look forward to working together again!”

JPC Group Inc., USA

“Pinnacle has produced very detailed modeling in a timely manner that was faster than expected. They have also asked the right questions to provide a high-quality product that we at Columbia can use to our full advantage.”

Columbia Construction Company, USA

“It was very nice to work with the pinnacle team. The team has a very good understanding of the project scope of work. Pinnacle submitted all deliverables within the scheduled time frame. We really appreciate the pinnacle team's effort and hard work.”

Nesma and Partners, KSA

“Overall I am consistently happy with the work produced by Pinnacle Infotech. The work is thorough, adhere's to our company standards, is delivered in a timely fashion, and are willing to work with you to make sure their deliverable meets your needs.”

Kast Construction, USA

“My company was very satisfied with Pinnacles performance on this project. Their project team was very helpful and got us everything we needed on time and maintained schedule. I will be utilizing their services again in the future.”

Kilgore Industries, USA

It was good to work with Pinnacle on this project. The Pinnacle team was detailed, flexible, and responsive during the coordination process. Thank you!

Brasfield & Gorrie, USA



India Office Locations

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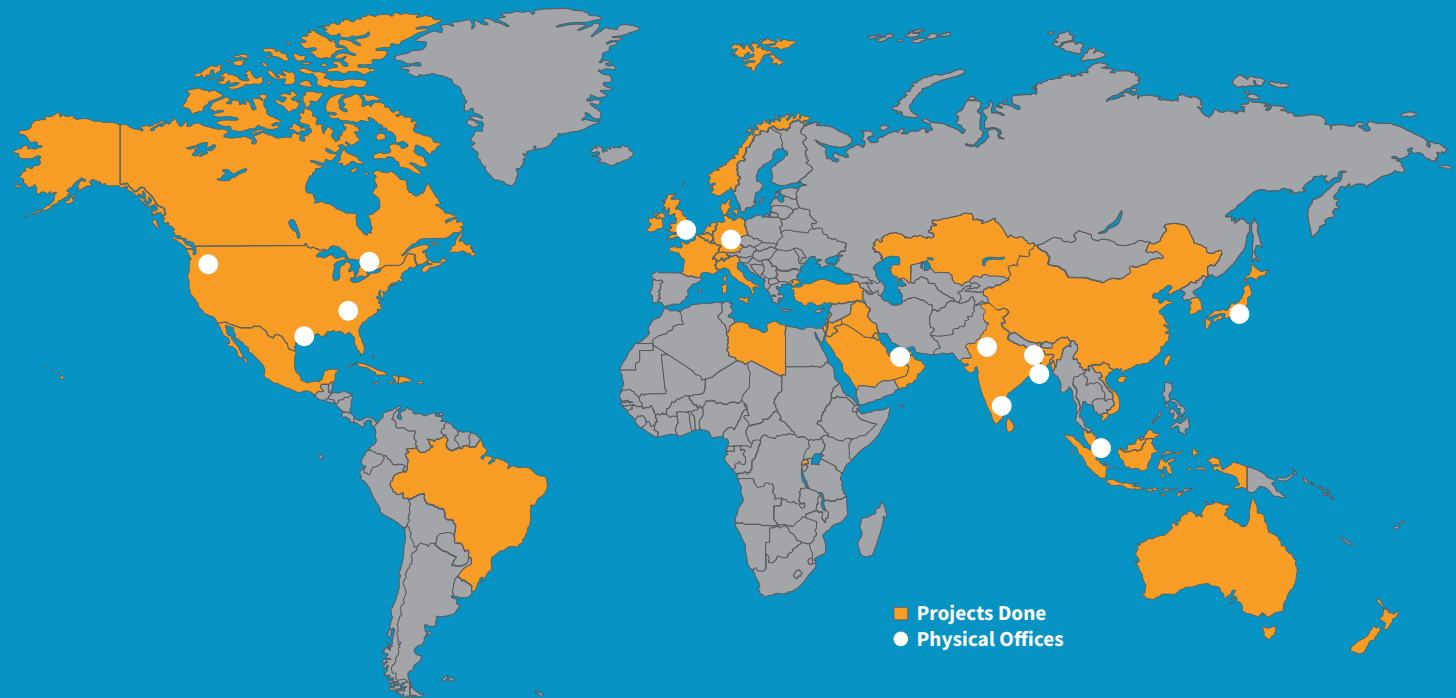
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