

BIM

Revolutionizing The AEC Industry



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

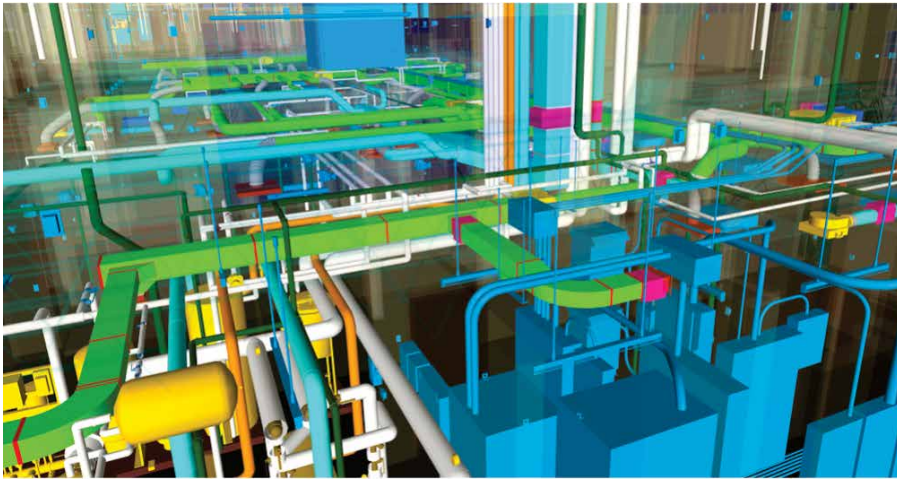
- E Excellence**
We take pride in our passion for excellence. It is a way of life for us.
- A Agility**
We are always at the edge of technology and driven by agile transformations.
- R Reliability**
We have ISO-certified processes and workflow to produce consistent and reliable performance.
- T Teamwork**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

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1. Revolutionizing the AEC Industry



3D BIM Coordinated Model

Proper planning and coordination are the keys to the successful execution of projects in the construction industry. Building Information Modeling (BIM) allows stakeholders to create and examine virtual representations of the Mechanical and Electrical (MEP) systems, and other utilities.

The virtual construct can be used to generate accurate shop drawings and address design issues before construction begins. Advancements in 3D technology and the advent of BIM have also revolutionized the Architectural, Engineering and Construction (AEC) industry.

Pinnacle Infotech has been acknowledged as the global leader in providing innovative BIM solutions. We have received several awards and recognition from both industry and government. 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.

We recognize the importance of effective work process management and regular

communication when outsourcing services. We have developed an ideal mix of infrastructure, experience, global presence and commitment to excellence that has led to long-term relationships with more than 2000 clients worldwide.

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.

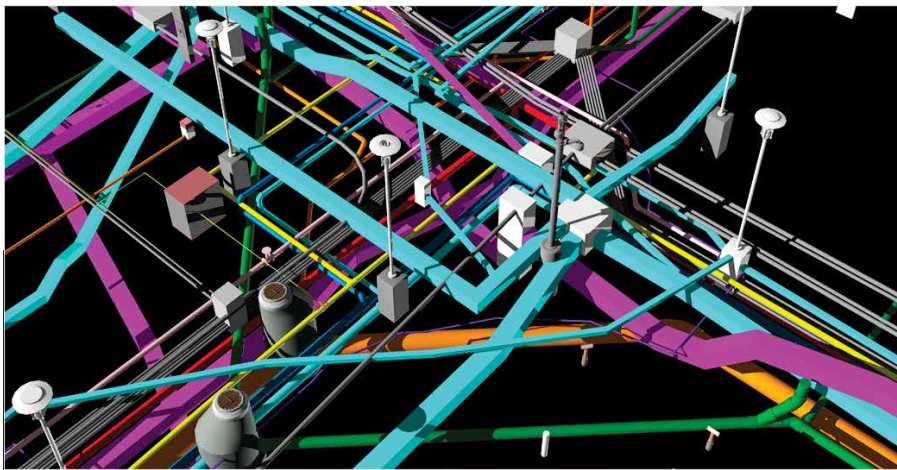
Project Management

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. Project Visualization and Collaboration

The co-ordinated BIM model helps in visualizing the complete project before construction, thus enabling comparison between different design options leading to development of more efficient, cost-effective and sustainable solution.

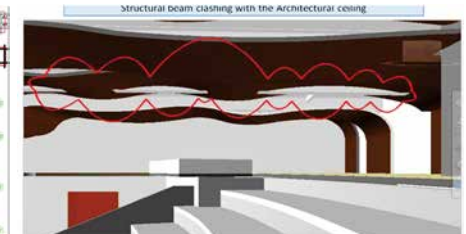


5. Constructability Review & Analysis

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:

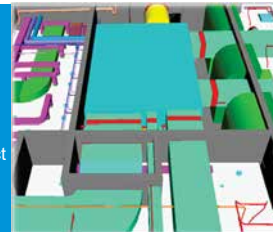
- Missing information / documents
- Input inconsistencies
- Conflicting data
- Operation clearance and accessibility issues
- Maintenance access

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.



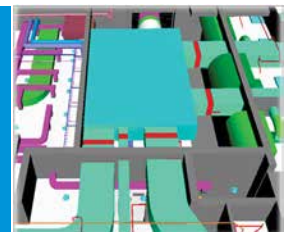
Issue Raised:

1. Collision between wall and supply air duct
2. 1050 mm x 550 mm supply air duct clashing with architectural wall



Response:

1. Resized the duct
2. Shifted the architectural wall



6. Peer Review using 2D Documents

Pinnacle will analyze the documentation packages/pdf for errors and omissions that may impede construction. We will verify that work requirements are clear and the documents are coordinated. We will make written comments to plans and specifications then submit them to you for review. The analysis may include the Architecture, Structural, Site, Site Utilities or Mechanical.

The following will be checked

- Plans
- Specifications
- Relevant Special Provisions

We use Bluebeam Revu for the process.

Pinnacle Intotech Constructability Log_Mechanical Ducting & Mechanical Piping							
Sl. No.	Level	Drawing Sheet No.	Drawing Title	Area	Grid	Description	Drawing Image
13	13TH LEVEL	ME-15 & BULLETTIN-43	HVAC PLAN - 13TH LEVEL & SOUTHWEST GRADING BULLETTIN-3 REVISION NARRATIVE-20190201	OPEN OFFICE (13051)	Horizontal Grid D & D-5; Vertical Grid 3 & 3	THESE AREAS ARE NO LONGER EXPOSED. PLEASE CONFIRM IF THE MARKED AS PLAT WALL DUCTS NEED TO BE REVISED TO RECTANGULAR DUCTS, AS PER BULLETTIN-3 REVISION NARRATIVE CORRESPONDING TO REVISION CLOUD "N".	
14	13TH LEVEL	ME-15 & BULLETTIN-43	HVAC PLAN - 13TH LEVEL & SOUTHWEST GRADING BULLETTIN-3 REVISION NARRATIVE-20190201	OPEN OFFICE (13070)	Horizontal Grid C; Vertical Grid 3 & 4	THESE AREAS ARE NO LONGER EXPOSED. PLEASE CONFIRM IF THE MARKED AS PLAT WALL DUCTS NEED TO BE REVISED TO RECTANGULAR DUCTS, AS PER BULLETTIN-3 REVISION NARRATIVE CORRESPONDING TO REVISION CLOUD "N".	
15	13TH LEVEL	ME-15	HVAC PLAN - 13TH LEVEL	TYPICAL FOR THE ENTIRE FLOOR (HERE THE SNAP IS TAKEN IN OFFICE (13050))	Horizontal Grid D & D-5; Vertical Grid 9 & 10	TYPICAL FOR THE ENTIRE FLOOR. CTM NOT SPECIFIED FOR THESE "W" TYPE RETURN CURING DIFFUSERS. CONSEQUENTLY, THEIR NECK AND FACE SHALL NOT BE ASCERTAINED FROM HVAC SCHEDULE.	
16	13TH LEVEL	ME-15	HVAC PLAN - 13TH LEVEL	TYPICAL FOR THE ENTIRE FLOOR (HERE THE SNAP IS TAKEN IN FOUR ROOMS (13047 & 13048))	Horizontal Grid D & D-5; Vertical Grid 3 & 4	TYPICAL FOR THE ENTIRE FLOOR. CTM NOT SPECIFIED FOR THESE "W" TYPE RETURN CURING DIFFUSERS. CONSEQUENTLY, THEIR NECK AND FACE SHALL NOT BE ASCERTAINED FROM HVAC SCHEDULE.	

7. BIM Model Auditing & Validation

We provide accurate and reliable BIM Model Authoring for Engineers, Contractors, Architects, Design Firms and other construction professionals. The clients provide us a range of inputs like the contract documents, specification sheet, and design document. We compare the CD Sets /Input documents along with the BIM Model which is provided by the client, ensuring that the specifications are matched with the LOD standards and other details. We ascertain that the outputs such as CD set, shop drawings and bill of quantity (BOQ) from the BIM model are reliable.

We make a comprehensive analysis and audit BIM Model for delivering project in a risk free environment, facilitating smooth construction.

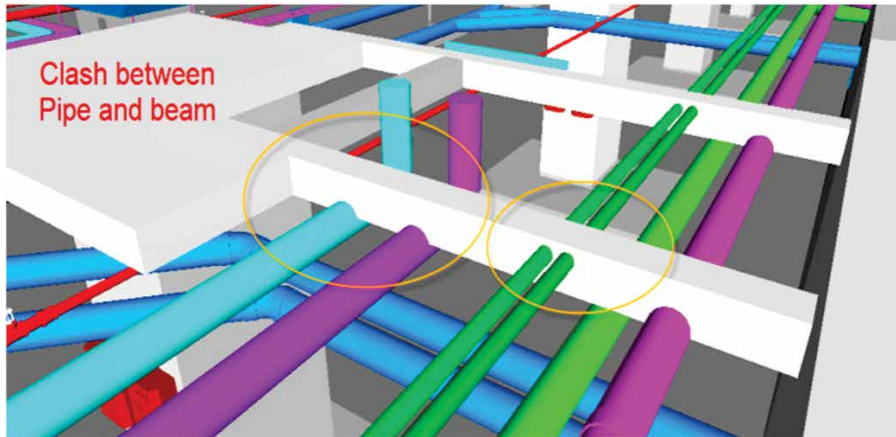
Our Audit process includes the following steps

- Reviewing Documentation
- Reviewing LOD against Design Function
- Data Validation
- Clash Detection & Coordination

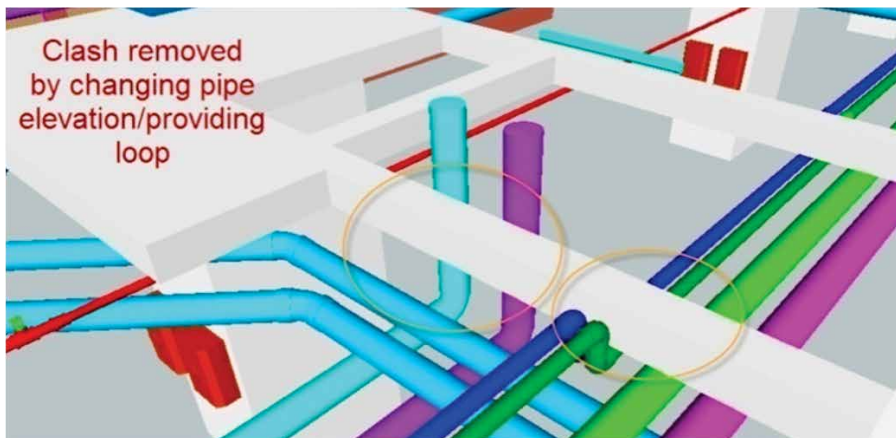
Model Review Log							
Issue#	Issue Description	Model Assumption	Referenced Model	Level	Gridline Reference	Detail Reference	Sheet/ Approv Date
2012.05.2_099	Ground Floor plan layout is not matching with the First floor plan layout. Please review and advice.	We have modeled as per input documents.	18790102004.dwg and 18790101004.dwg	First Floor Area D and Ground Floor Area D	D3 & DB		2012-05-

8. Model Coordination & Clash Resolution

We generate a coordinated BIM model after resolving the clashes among all the trades (Architecture, Structure, Concrete, Mechanical, Electrical, Plumbing, Fire Protection, etc.). Clashes are resolved through WebEx meetings/ sharing 3D clash snapshot. Clashes are resolved by re-routing utilities, changing elevation and re-sizing. Value Engineering is also offered to improve system efficiency, reduce costs and easier construction and maintenance.



Before Coordination

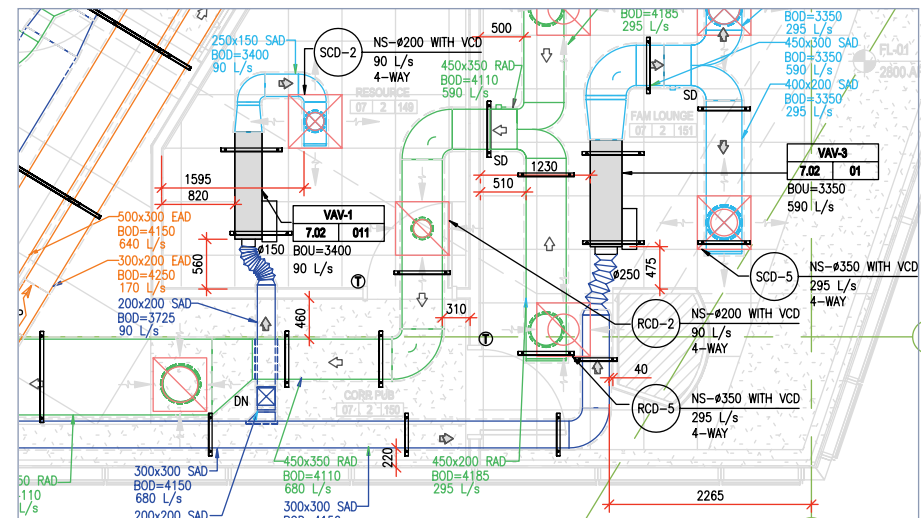


After Coordination

9. Detail Shop Drawings

Detail Shop Drawings are created based on project standards and are useful to contractors, fabricators, suppliers and manufacturers during construction. BIM is highly useful for construction of any irregular or complex structures. We generate accurate sleeves, penetration and hanger locations from the BIM model before start of construction. These drawings can be directly downloaded into GPS instruments for fast and accurate layout at site. These drawings are generated directly from coordinated BIM models and are detailed enough for workshop fabrication and/or on-site construction. Advanced BIM tools help in revisions management.

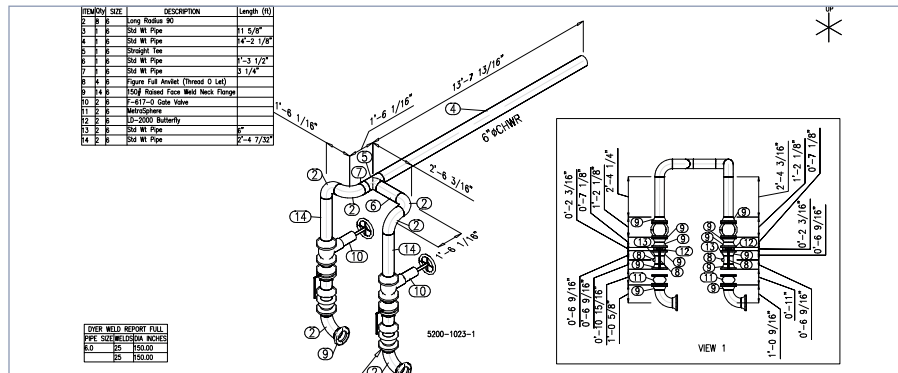
Architects & Structural Engineers often lose time preparing technical documentation of projects. Revit BIM allows them to easily create professional shop drawings, saving several hours of work in the field. The shop drawing creation can be automated from BIM, ensuring fast output generation with data accuracy in construction document. Using BIM based shop drawing a more sustainable project can be developed. The dynamic changes and centralized drawing location lead to a significant addition to productivity in the process of extracting Shop drawings. This eliminates human errors, making it less time-consuming to manage and make changes in the drawings. The co-ordinated shop drawings coming out of BIM model predict possible clashes and resolve them, before execution which helps in saving time and money.



Hvac Shop Drawing

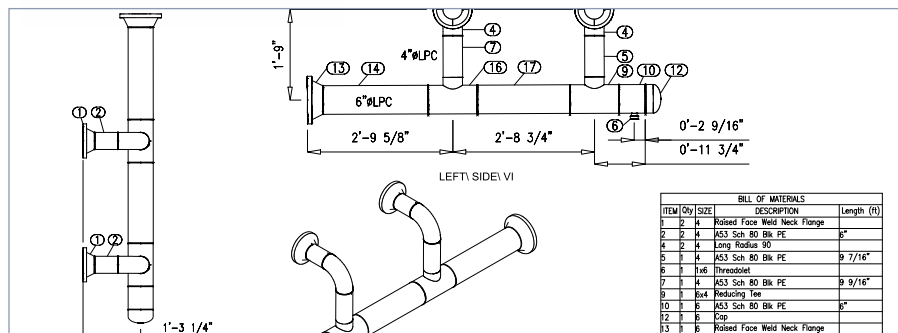
10. Fabrication/Spool Drawings

Fabrication drawings can be generated from the BIM model for accurate pre-fabrication off-site / on-site. Segmented spool drawings and a spool map with segment locations are generated in accordance with the contractors pre-fabricating standards and preferences. Pre-fabrication significantly improves quality, helps in material handling and reduces cost.



A 3D CAD model of a complex industrial spool assembly. The assembly consists of multiple pipe sections of varying diameters (6, 12, and 16 inches) connected by various fittings including 90-degree elbows, a reducing tee, and butterfly valves. The model is rendered in a semi-transparent green color, revealing the internal structure and the precise alignment of the components. The assembly is shown from an isometric perspective, highlighting its three-dimensional nature.

Spool-BOM										
TAG	Qty	Size	Length	Description	Manufacturer	END-1	END-2			
1	2	12		90° Elbow S						
2	1	12	3'-9.1V	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
3	2	12x6		Reducing Tee S						
4	1	6	10"	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
6	1	6	1'-41.3V	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
8	4	6		Flgi Vam Stone Style 2/Piece						
9	2	6"		BUTTERFLY VALV						
10	2	6		90° Elbow S						
11	1	12	1'-0.5V	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
12	1	6	1'-61.1V	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
13	1	6	81.3V	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
15	1	12	2'-81.1V	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			
16	2	12		Flgi Vam Stone Style 2/Piece						
17	1	12"		121 INCH GEAR OPERA						
18	1	12	1'-4"	PVC/ Sch80 Industrial Pipe PEI x2 Plain.-I Fort Po		PVC/ xl Sch	PVC/ xl Sch			



11. Bill of Quantity (BOQ)

BIM model generates accurate quantity of all materials. These quantities are automatically updated with any changes in the BIM model. Quantity Take-Off (QTO) reports can be formatted in Excel and exported to a database for detailed analysis. Quantities can be generated for a specific time period or project area (4D/5D) to help manage material procurement and save inventory costs.

The following elements can be generated from a BIM model

- Structural elements – Concrete, Steel, Rebar's, CMU Walls, etc.
- Architectural elements – Block Work, Ceiling, Doors and Windows, Railings, Finishes, etc.
- MEP elements – Ducts, Pipes and Fittings, Accessories, Equipments, Cable Trays, Hangers, etc.

[illegible]

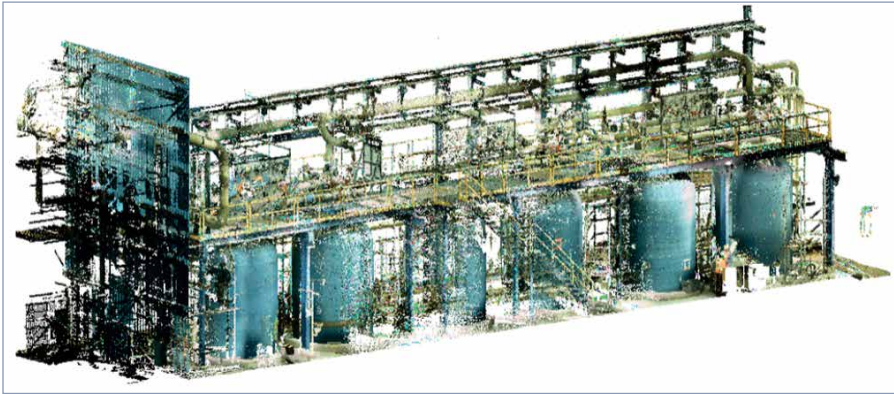
Architectural QTO

Service	Size	Schedule	Material	Qty	Length
CHWR	1 1/4"	601 Coupling CxC	Copper: Wrot Copper	1	
CHWR	1 1/4"	607 90 Elbow CxC	Copper: Wrot Copper	1	
CHWR	1 1/4"	Control Valve Full Port	Carbon Steel: Carbon Steel	1	
CHWR	1 1/4"	Soldered Joint	Copper: Wrot Copper	1	
CHWR	1 1/4"	Soldered Joint	Copper: Wrot Copper	2	
CHWR	1 1/4"	Soldered Joint	Copper: Wrot Copper	3	
CHWR	1 1/4"	T-585-70 Ball Valve	Bronze: Cast Bronze	2	
CHWR	1 1/4"	Type L Hard Copper	Copper: Wrot Copper	1	
CHWR	1 1/4"	Type L Hard Copper	Copper: Wrot Copper	1	3 1/8"
CHWR	1 1/4"	Type L Hard Copper	Copper: Wrot Copper	1	3 1/4"
CHWR	1 1/4"	Type L Hard Copper	Copper: Wrot Copper	1	3 1/2"
CHWR	1 1/4"	Type L Hard Copper	Copper: Wrot Copper	1	3 3/4"
CHWR	1 1/4"	Type L Hard Copper	Copper: Wrot Copper	1	3 7/8"

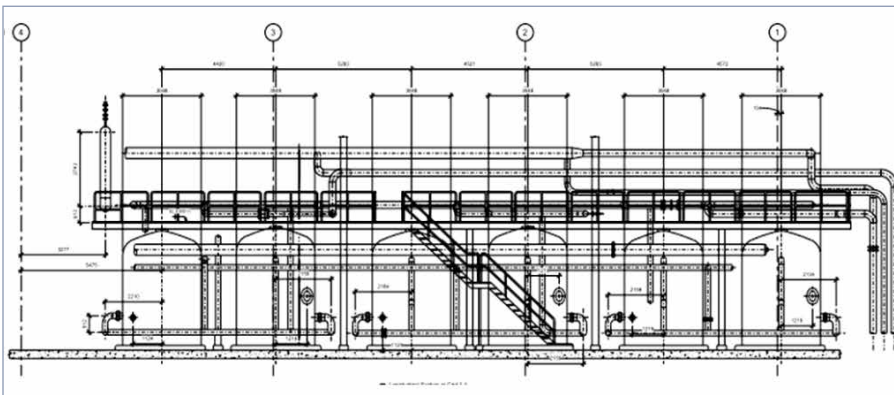
MEP QTO

12. 3D Scanning to BIM & Facility Management (CoBie Data)

3D Scanning technology gives an accurate and detailed “as-built” drawing with Point Clouds. BIM tool use Point Clouds to create Revit model with automated recognition and placement of architectural, structural and MEP elements. The visual model of existing conditions is used for design and clash detection mainly in retrofit and renovation projects producing a seamless fit between new and existing assets.



Point cloud sample

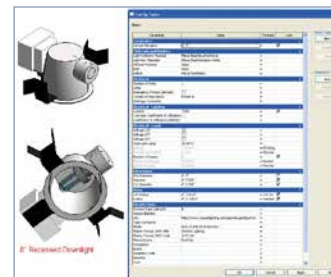


Output (2D drawing) generated from point cloud

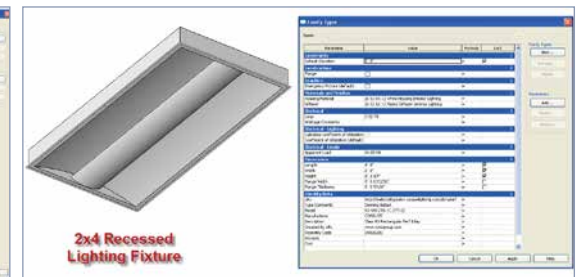
Facility Management

Pinnacle facilitates project stakeholders to organize approved electronic submittals during design and construction through facility management. We manage complete contact records of every project, including accurate data for essential fields. The building information model files, drawings and the PDFs are organized to be easily accessed through secure server directories. Our engineers follow COBie (Construction Operations Building Information Exchange) process for managing facility assets.

- Provides all detailed information pertaining to facility management like wear & tear, make, warranty, cost and other product specifications in Revit
- Manages complete contact records for projects
- Transfers data from As-Built Model to Spread Sheet & Maintains updated As-Built Models
- Facilitates quick trouble shooting through information sharing among project stakeholders
- Allows better simulation through design analysis on BIM during renovation and upgrade
- Offers an exact virtual representation of the building services after construction
- Reduces cost in operation, management and space planning by predicting building performance throughout the life-cycle of the facility
- Enables improved & precise budgeting for future maintenance



Lighting fixture with it's property

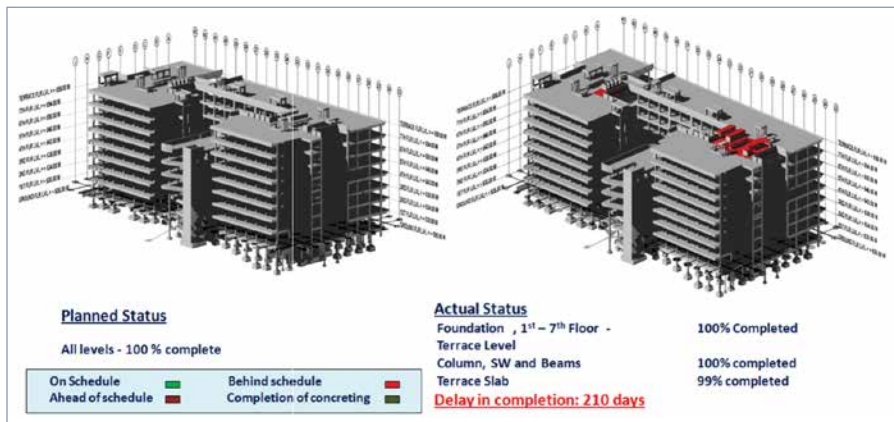


Lighting fixture with it's property

13. Construction Analysis - Planned Vs. Actual

Project construction schedule/sequencing is linked to the BIM model. A real time simulation of the construction sequence is shown in Navisworks Time Line or as an animation video format. During the entire duration of the project, the Planned Vs. Actual construction schedule is compared and presented.

When the project plan is established in visual simulation, users can visually associate model objects and scheduled tasks. Users can click on a building object in the 4D visual environment and can view its associated task highlighted in the Gantt Chart or vice versa.

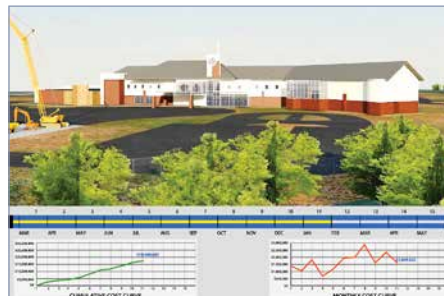


Construction Analysis - Planned Vs. Actual

14. Construction Management (4D & 5D)



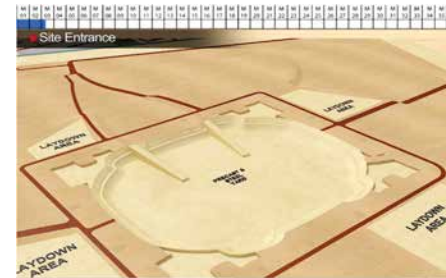
4D Presentation Snap



5D Presentation Snap

15. Marketing BID Presentation

We help our clients secure bids by creating Marketing Presentations of high quality rendered images, Walkthrough Animations, 4D Phasing and Site Logistics. Videos are prepared using client's construction planning integrated with project bid drawing.



Project development progression at the 3rd month



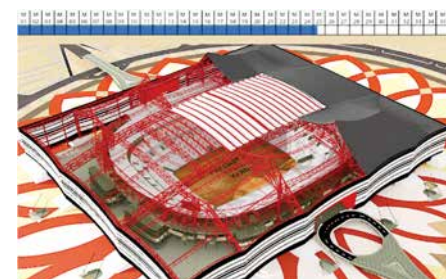
Project development progression at the 8th month



Project development progression at the 15th month



Project development progression at the 22nd month



Project development progression at the 25th month



Project development progression at the 36th month

Benefit of Construction Management & BID Presentation

- Helps clients in winning the Project.
- Powerful Visualization of Construction Process
- Streamlined Construction Productivity

- ## 17. Value Engineering

Pinnacle brings Value Engineering for all successfully delivered projects through rigorous Design Detailing, Effective Quality Control (QC) Process and using technical expertise from Design, Construction Management & Field Installation. Our Creative In-House Brainstorming helps to re-design MEP layout and save time for contractor or design consultant, without changing orders. We make proper spacing and positioning of hangers for maximum load bearing and cost optimization.

Our engineering team builds intelligent BIM model to design complex building systems with greater efficiency. This gives all stakeholders a clear idea of design intent enabling them to modify the design to achieve the outcomes they want, minimizing risk of costly changes later on. Different design options are simulated and analyzed to develop more efficient and cost-effective solutions. Some of these are listed below:

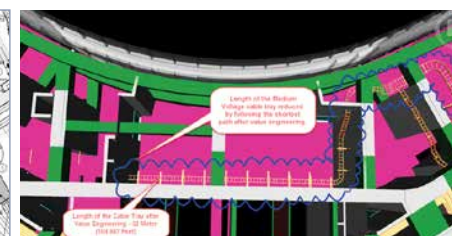
- Drafting and detailing support
- Framing Detailing
- 3D modeling of complex structures
- Quantity Extraction of individual walls and floors of rooms
- Concrete Lift Drawing
- Reinforcement Drawing & BBS
- Revit based heat load calculation and generation of HVAC layouts
- Sizing and calculation of HVAC ducts and pipes
- Illumination calculation and generation of light and power layout
- Creation of sanitary and water supply layouts based on fixture unit values and pipe sizing
- Validation of equipment capacity for all services
- Creation of Technical Schedules and Auto-Updating the same based on design iterations
- Pressure loss reports and velocity legend creations
- Other analysis reports as required

Benefits of Value Engineering

- Improves System Effectiveness & Constructability
- Reduces Material & Labor Cost
- Lowers Installation Time
- Enhances Safer Construction
- Ease in access during construction & post construction stages
- Hanger Support Optimization
- Sheet Metal Cost Optimization
- Coordinates MEP Utilities
- Reduces offset in trunk duct
- Clean layout for MEP Model
- Generates Higher ROI to client
- Shaft Optimization
- Saves time on RFIs
- Avoids discrepancy with local codes in Plumbing Model



Issues as per input drawing



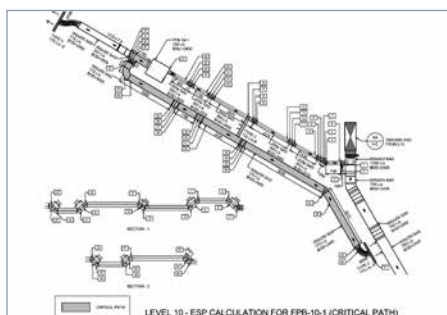
Issues resolved after value engineering

18. BIM Services for Specialty Trade Contractors

The Specialty Trade Contractors subsector comprises establishments whose primary activity is performing specific activities (e.g., pouring concrete, site preparation, plumbing, painting, and electrical work) involved in building construction or other activities that are similar for all types of construction, but that are not responsible for the entire project. We do also cater to all the trade Contractors in different means.

Our BIM Services is adhering to Specialty trade contractor such as

- Framing Contractor
- Drywall Contractor
- Carpentry Contractor
- Concrete Contractor
- MEPF Contractor



ESP Calculation – Using Elite Software

PLUM ION PIPER							
Pipe Velocity (ft/sec)	Target Inlet (in/min)	Outlet Mode	Inlet Fr. Inlet #	Outlet Fr. Outlet #	Drop in pr. Drop in #	Pipe Friction Friction #	Reynolds Number
1.3680E+03	1.071	328.0	0.7564	0.4302	0.1214	1.0027E+03	
1.3680E+03	1.071	328.0	0.4302	0.4308	4.4183E-03	1.0070E+03	
1.3680E+03	1.071	328.0	0.4308	0.7403	6.5518E-02	1.0070E+03	
1.7020E+03	1.837	328.0	0.3603	0.3694	9.1845E-03	4.2000E+03	
1.7020E+03	1.837	328.0	0.3694	0.4048	4.4229E-02	4.2000E+03	
1.7020E+03	1.837	328.0	0.4048	0.4565	1.2044E-02	4.2000E+03	
1.7020E+03	1.837	328.0	0.4565	0.3919	9.1375	4.2000E+03	
1.7020E+03	1.837	328.0	0.3919	0.2763	4.5516E-02	4.2000E+03	
1.7020E+03	1.837	328.0	0.2763	0.2743	2.3016E-02	4.2000E+03	
1.8020E+03	1.937	328.0	0.2510	0.2325	1.8970E-02	4.2000E+03	
1.8020E+03	1.937	328.0	0.2325	0.2426	1.8183E-02	4.2000E+03	
1.8020E+03	1.937	328.0	0.2426	0.1997	1.8070E-02	4.2000E+03	
1.8020E+03	1.937	328.0	0.1997	0.1778	2.2091E-02	4.2000E+03	
1.7020E+03	1.837	328.0	0.1778	0.3036	+0.3500	4.2000E+03	

Pump Head Calculation – Using PIPENET Software

19. 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

Pinnacalites rely 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.

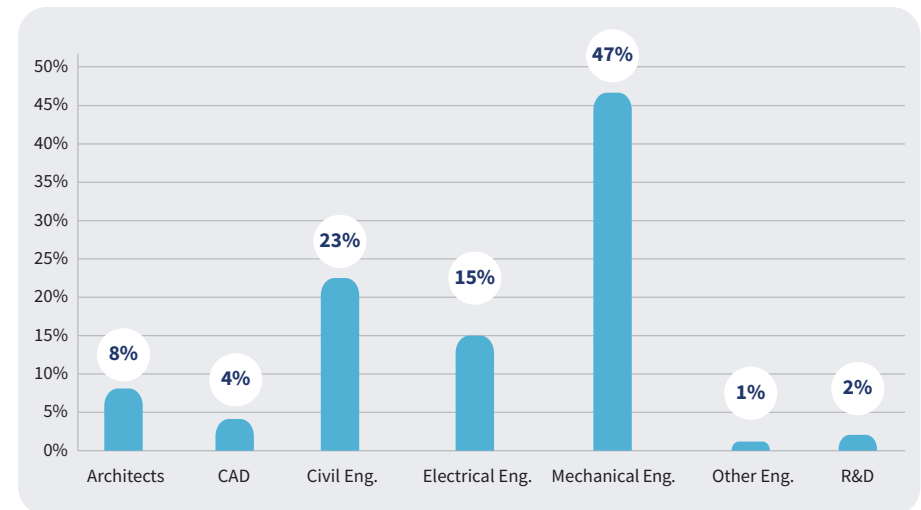
Honesty

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.

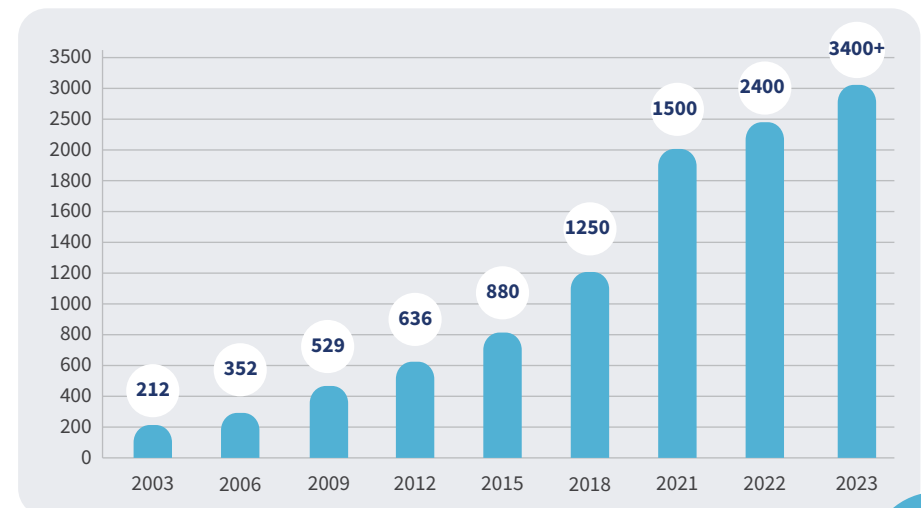
20. Our Team

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



21. 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 and Atlanta), 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.



22. 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.

23. Our Projects

ASHRAE Global HQ

Atlanta, USA



St. Mary Magdalene C of E School

Northampton, UK



New Children's Hospital

Dublin, Ireland



Dubai International Airport

Dubai, UAE



Lusail Stadium

Lusail, Qatar



Berlin Data Center

Berlin, Germany



24. Clients Speak

“We were very pleased with the result and feel it was a contributor to our awarding of the project! Overall we were happy with what was provided. I wasn't super happy about how we addressed modeling a very uneven topography and how that translated to a flat surface. I'm unsure how to proceed in the future with similar constraints.”

Korsmo Construction, USA

“This was the first time we had utilized Pinnacle's services. They were outstanding to work with, met the commitments they made to the project, and did well at communicating to work to provide the best product possible to help our project. Although we are still in the early phases of the construction of the structure on this project, I am confident the product they provided will be an excellent resource for our staff to improve upon cost and schedule efficiency on the project.”

Manhattan Construction Company, USA

“It has been a pleasure to work with you, albeit in the background of the project. However, the work you have done over the last 6 months has been essential to ensure that the project has moved forward unhindered.”

McLaren Construction Group, UK

“Pinnacle did a great job of modeling our building to the highest detail specified and without any corners cut. The team was organized and responsive and even pointed out discrepancies in the design as they modeled via RFIs. Great service and a great product.”

Miller 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 teams' effort and hard work.”

Nesma & Partners, Saudi Arabia

“They supported my pjts diligently and faithfully according to the planned schedule. Also, they know a lot of new techniques and know-how for using BIM. Thank you so much.”

Samsung C&T Corporation, South Korea

“The CDR's were very well presented and intuitive. This basic clash detection process was perfectly executed on time and without fuss. Pinnacle is an ideal BIM partner, allowing the principle design team to dedicate their resource to design tasks.”

Willmott Dixon Construction, UK

“Pinnacle was able to meet our very tight and aggressive schedule. They provided us with a detailed site logistics animated model for a presentation and was ultimately awarded the project.”

W.T. Rich Company, Inc., USA

“Working with Pinnacle team worked very well. This was a fairly small marketing project with a short deadline, and your team provided us exactly what we needed in the time period that was necessary. We are still waiting for the client to make a final decision, however, if they do proceed with our company we most likely will be working with Pinnacle for some of the MEP trade coordination.”

Wright Construction Group, USA

“Pinnacle team was very responsive to email and phone calls, despite the time zone differences between our offices. The team completed the model on schedule and was able to provide a separate model for each floor as they progressed through the building in order to prevent delays to our MEP coordination schedule. I would recommend using Pinnacle for future 3D modeling jobs.”

Clark Construction Group LLC, USA

“Working with Pinnacle team has been a great experience. The model generation, updates, etc. have been quick and accurate. I definitely appreciate the creation of RFI's by Pinnacle to aid us in our coordination efforts.”

Turner Construction Company, USA

“Pinnacle is constantly raising our expectations of what to expect of a BIM service provider. Your response time and your willingness to go the extra effort separates you from the rest.”

Wohlsen Construction Company, USA



India Office Locations

Durgapur - HQ

Pinnacle Infotech Solutions
Bidhannagar, Durgapur, WB 713212
Phone: +91 343 6602222
Fax: +91 343 6602230
Email: info@pinnacleinfotech.com

Madurai

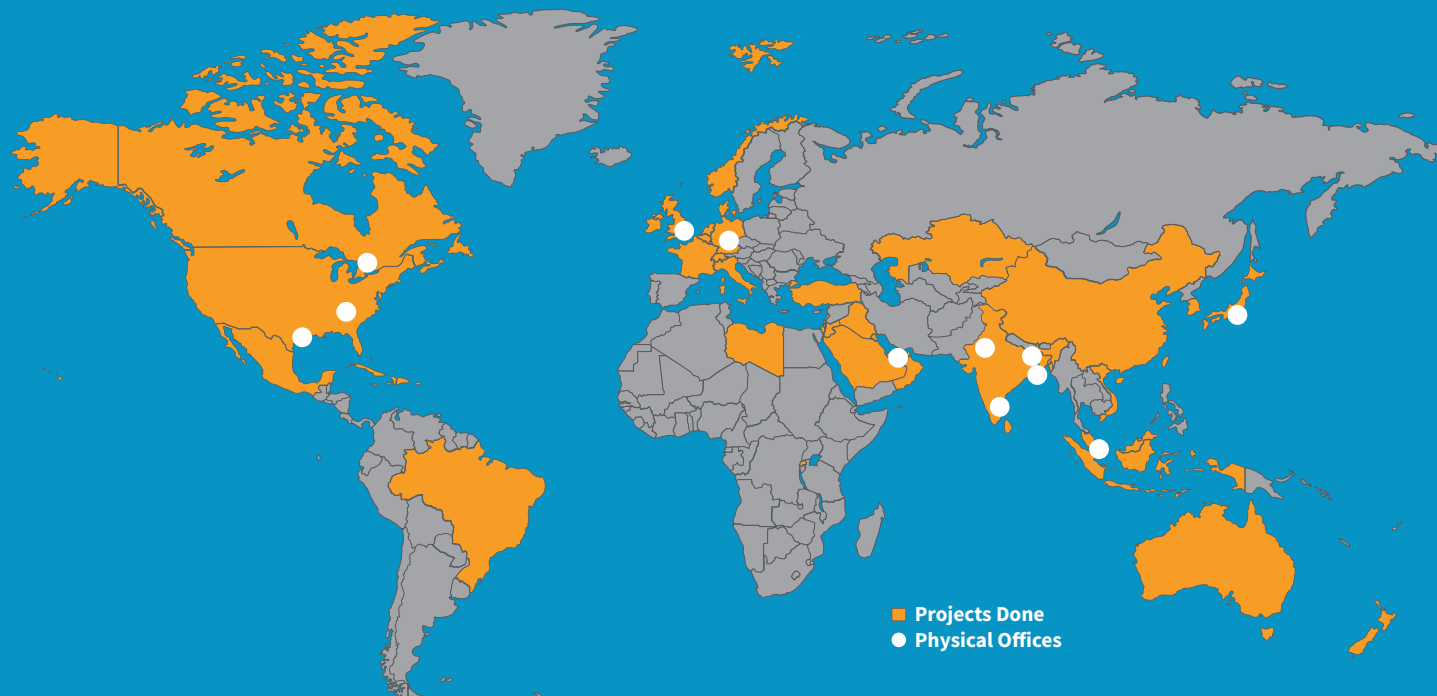
Pinnacle Infotech Solutions
Elcot IT Park, Plot No - 5,6,&7, Vadapalanji,
Madurai, Tamil Nadu, India - 625021
Phone: +91 70100 97363

Jaipur

Pinnacle Infotech Solutions
Mahindra Sez, Jaipur, RJ 302037
Phone: +91 141 722444

Kolkata

Pinnacle Infotech Solutions
Ecospace Business Park, Kolkata 700156
Phone: +91 33 2324 5900



International Office Locations

USA - Houston

Pinnacle Infotech Inc.
50 Sugar Creek Blvd,
Sugar Land, TX 77478
Mr. Biswanath Todi
Phone: +1 713 780 2135
Email: btodi@pinnacleinfotech.com

USA - Atlanta

Pinnacle Infotech Inc.
6065 Roswell Rd NE #625,
Atlanta, GA 30328
Mr. Mickey Cantrell
Phone: +1 270 223 6319
Email: mcantrell@pinnacleinfotech.com

Canada

Pinnacle VDC Inc.
3250 Bloor Street West, East Tower,
Suite 600, Toronto, ON M8X2X9, Canada
Mr. Cory Houle
Phone: +1 613 290 7477
Email: choule@pinnacleinfotech.com

UK

Pinnacle Infotech Limited
The Barley Mow Centre,
London, W4 4PH
Mr. Luke Pannell
Phone: +44 749 554 2795
Email: lukep@pinnacleinfotech.com

Germany

Pinnacle BIM Technology GmbH
Lilienthalstrasse 27, 85399 Hallbergmoos,
Munich, Germany
Mr. Bernhard Kössler
Phone: +41 79 4393570
Email: bkossler@pinnacleinfotech.com

UAE

Pinnacle Infotech Technologies FZ-LLC
Office No - 307, 3rd Floor, Building No. 7
Dubai Outsource Zone, Dubai, UAE
Mr. Yash Goyal
Phone: +971 52 769 7465
Email: dubai@pinnacleinfotech.com

Singapore

Pinnacle BIM Technology PTE. LTD.
BCA Braddell Campus, 200 Braddell Road,
#13-63, Singapore 579700
Mr. Kuntal Chakraborty
Phone: +65 69508205
Email: kchakraborty@pinnacleinfotech.com

Japan

Pinnacle BIM Technology K.K.
#403 7-1-5, Minamiaoyama, Minato-ku,
Tokyo, Japan, 107-0062
Mr. So Adachi
Phone: +81 80 3008 9453
Email: sadachi@pinnacleinfotech.com

