

# MEP Design Engineering



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# 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

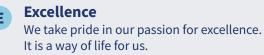
# Vision

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

# **Associations:**



# **Our Values**



# Agility

We are always at the edge of technology and driven by agile transformations.

# Reliability

We have ISO-certified processes and workflow to produce consistent and reliable performance.

# Teamwork

Pinnacle provides an environment where teams collaborate effectively to excel.

# Honesty

We win the trust of our stakeholders through integrity, straightforwardness, and transparency.

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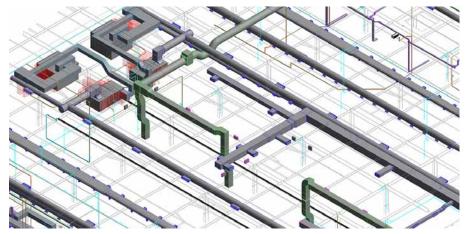
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# 1. Revolutionizing MEP Design Engineering



MEP Design 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, Electrical and Plumbing (MEP) systems and other utilities. The simulated 3D construction can be used to show design intent to owners with greater visualization, generate coordinated construction documents (CD Sets) for eliminating rework & change order and eradicate work-stoppages due of RFIs in view of availability of high degree of detailing within the model itself.

Pinnacle Infotech has been acknowledged as the global leader in providing innovative BIM solutions. We have received several awards and recognitions for our expertise, from the government and from various trade associations, including excellence awards, innovation awards and top exporter and highest job creator awards. NASSCOM, the leading IT trade association, has acknowledged Pinnacle among the Top IT Innovators for 6 years, between 2007 and 2017. 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.

The successful completion of more than 15000 BIM projects in 43+ countries has provided Pinnacle with a deep understanding of international building codes and procedures. Recognize the importance of effective work process management and

regular communication while delivering outsourced services, our global delivery system allows us to maintain constant contact with our clients, making geographical separation meaningless. We have developed an ideal mix of infrastructure, experience, global presence and commitment to excellence that has led to long-term relationship with more than 2000 clients worldwide.

# 2. Benefits of Implementing BIM for MEP Design Engineering Firms

# **Greater Visualization**

Enables demonstration of design intent to owners and stakeholders with 3D visualization, for quicker & more efficient decision making during the design phase.

# Flexibility in Design

Allows easy simulation of various design parameters through nominal input changes! Seamless coordination with Owners, Architects, Consultants and Stakeholders for a real time updated model during design phase.

# Accuracy

Exact Engineering Drawings (Plans, Elevations & Sections etc.,) along with well-coordinated Construction Documents derived from the 3D model itself, thus improving quality and accuracy.

# Efficiency

Eradicates work stoppages due to RFI's through availability of high degree of detailing within the model, and rework due to constructability issues since the supplied BIM Model is clash coordinated for all trades.

# Savings

Cost optimization and value engineering by using BIM and interfacing with various design analysis and simulation software. Pre-fabrication and quantity take-off derived automatically from the 3D model.

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

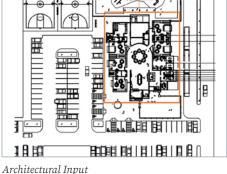
# 3. BIM Services for MEP Design Engineering Firms

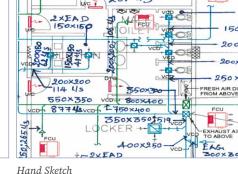
Pinnacle works closely with MEP Design Engineering firms during the design development stages using an ISO 9001 certified process to provide accurate and cost effective solutions. We work with a range of inputs and specialize in BIM modeling to validate the design for constructability, applicable codes, performance and maintenance. 3D visualization helps bring clarity in design objectives pertaining to performance parameters, clearance, tolerance, support systems for installation and ease of maintenance.

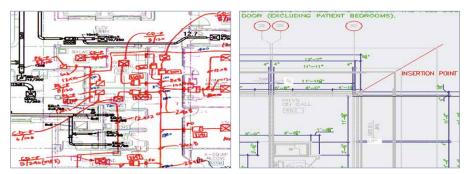
Different design options are simulated and analyzed to choose the most efficient solution. Our team uses advanced design software like Pipenet, ETAP, HAP, Dialux & Elite, which integrate seamlessly with the BIM models. We are platform independent and work on all major software applications like AutoCAD MEP, Revit MEP, Autodesk Fabrication, Bentley and SolidWorks. We follow all international standards like ASHRAE, IMC, ANSI, ASME, IPC, UPC, NFPA & SMACNA along with local codes and standards as per project requirement / specifications.

# The inputs received by Pinnacle include

- Hand-Sketches
- Red-Line markups
- Single-Line Diagrams
- Architectural Conceptual Drawings and Models
- Design Sheets
- Design Basis Reports

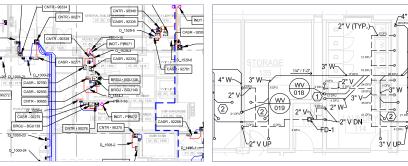






Red-Line Markup

CAD Files

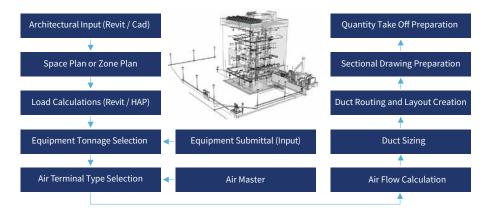


Electrical CAD Input

Plumbing Input

# 4. Mechanical Design Engineering

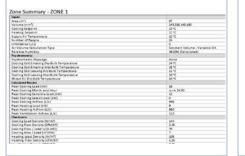
# Mechanical Design Workflow



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# **4.1 Load Calculations**

Heating Load Calculation
 Cooling Load Calculation







Load Calculation Using HAP

# 4.2 Mechanical Ducting

# Equipment Selection

Equipment Selection based on Tonnage will be obtained from the Load Calculations.

# Air Terminal Selection

Air Terminal Selection and flow rate for each Space/Zone is determined with the help of standard manuals like Air Master etc., after Load Calculation.

# Duct Sizing, Routing & Layout Generation

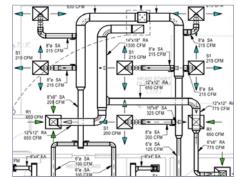
Duct Sizing will be done with respect to the volumetric flow and line sketch/Hand sketch will be drawn for future reference. We size the duct based on the Airflow accordingly with the help of McQuay Duct sizer. Routing and Layout creation will be after placing air terminal and sizing duct.

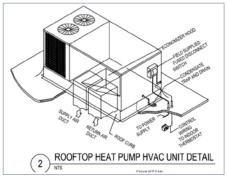
# Riser / Schematic Drawings

Detail, Section & Isometric Drawings

# External Static Pressure Calculation

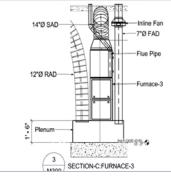
- Input required Architecture & Mechanical Modelling
- Tools Used Elite & Revit

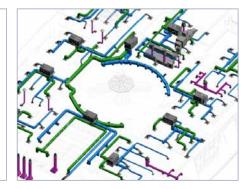




Duct Sizing

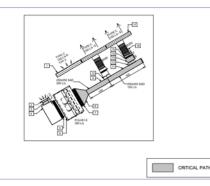
Detail Drawing



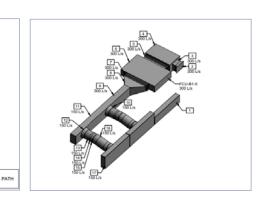


Section Drawing

Isometric Drawing



ESP Calculation



Isometric Layout

# 4.3 Mechanical Piping

- Pump Head Calculation
- Pipe Sizing and Layout Generation
  Section & Isometric Drawings
- Riser / Schematic Drawing Detail

# 4.4 Quantity Take-Off

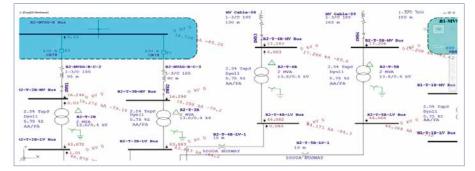
Part Material	Product Description	Size	Count
Pipe Systems: Victaulic (OEM) Imperial	VIC STYLE 807N QUICKVIC RIGID P GSKT	4"	8
Pipe Systems: PVC	No2100 - Coupling (S)	6"	7
Pipe Systems: PVC	No2300 - Elbow 90 (S)	4"	1
Pipe Systems: PVC	No2300 - Elbow 90 (S)	6"	2
Pipe Systems: PVC	No2309 - Elbow 45 (S)	4"	1
Pipe Systems: PVC	No2309 - Elbow 45 (S)	6"	3
Pipe Systems: PVC	PVC 45	2"	11
Pipe Systems: PVC	PVC 45	3"	9
Pipe Systems: PVC	PVC 45	4"	7
Pipe Systems: PVC	PVC bell reducer	3"-2"	1
Pipe Systems: PVC	PVC bell reducer	4"-3"	1
Pipe Systems: PVC	PVC bushing	3"-2"	7

Quantity Take-off

# **5. Electrical Design Engineering**

# **5.1 Load Calculations**

- Load and Short Circuit Analysis
  Fault Current Calculation
- Illumination Calculation



Load and Short Circuit Analysis

5.2 Sizing & Routing Cable Sizing

Conduit Sizing

- Conduit Routing Cable Tray Sizing
- Containment & Cable **Tray Routing**
- oute Type E 24C SMED RISER LOCA MAIN TRAY 0.Z5.BCP.0 BRANCH TRAY LO.Z5 5.14 L0.Z5.BCP.01 BRANCH TRAY LO.Z5 L0.Z5.BCP.06 5.19 TO RISER BRANCH TR L0.Z MAIN TRAY L0.Z5 5.17 5.13+5.16 TO RISER BRANCH TRAY L0.Z5 MAIN TRAY L0.Z6 5.17+5.18 10 10 TO RISER BRANCH TRAY 10.75 L0.25.BCP.0 MAIN TRAY LO.Z 14 L0.Z5 L0.Z5.BCP.12 TO RISER MAIN TRAV L0.Z5 TO RISER 0.Z5.BCP.0 BRANCH TRAY L0.Z5 L0.Z5.BCP.10 BRANCH TRAY MAIN TRAY 5.24+5.25 5.23+5.26 TO RISER L0.Z5 BRANCH TRAY L0.Z5 L0.Z5.BCP.13 5.28 MAIN TRAY BRANCH TRAY L0.25 10.75 BCP 1 5.30+5.31 TO RISER 1 L0.Z5 5.32 MAIN TRAY 5.33 TO RISER 1

Cable Size & Cable Tray Calculation

# **5.3 Schedules**

 Panel Schedule Fixture Schedule

ioltage: Russing: Mins:	120/208 Wye 1000 A CL 1000 A M		PH: 3	WIRE		RIOR			PA	NEL:	MB-A								NCLOS		IOUNTED
NCOMING:	TOP		FROM: /	A-90N						LOAD P	ER PHASE		7								
	DESCRIPTION	POLE	CONDUIT	WIRE	GND	TRIP	CKT		Á.		B		5	CKT	TRIP	GND	WIRE	CONDUIT	POLE	DESCR	UPTION
.C-1AL		3	2	30	6	200	1	15602 VA	5083 VA					2	200	6	3/0	2	3	LC-2AL	
		-	-	-	-		3			15611 VA	5090 VA			4	-	-		••		·-	
		-	-	-	-		5					15671 VA	5204 VA	6	-	-					
C-3AL		3	2	3/0	6	200	7	5083 VA	5083 VA					8	200	6	3/0	2	3	LC-4AL	
		-	-	-	-		9			5090 VA	5090 VA			10	-	-					
		-	-	-	-		11					5204 VA	5204 VA	12	-	-					
LC-5AL		3	2	3/0	6	200	13	5063 VA	5083 VA					14	200	6	3/0	2	3	LC-6AL	
		-	-	-	-		15			5090 VA	5090 VA			16	-	-		••		·-	
		-	-	-	-		17					5204 VA	5204 VA	18	-	-					
LC-7AL		3	2	3/0	6	200	19	5173 VA	17170 VA					20	200	6	3/0	2	3	LC-2AU	
		-	-	-	-		21			5000 VA	17119 VA			22	-	-	••		••		
		-	-	-	-		23					5194 VA	16952 VA	24	-	-		••			
LC+3AU		3	2	3/0	6	200	25	17170 VA	17170 VA					26	200	6	3/0	2	3	LC+4AU	
		-	-	-	-	•••	27			17119 VA	17119 VA			28	-	-	••			••	
		-	-	-	-	••	29					16952 VA	16952 VA	30	-	-				••	
LC-5AU		3	2	3/0	6	200	31	17170 VA	17170 VA					32	200	6	3/0	2	3	LC-6AU	
-		-	-	-	-		33			17119 VA	17119 VA			34	-	-					
		-	-	-	-	••	35					16952 VA	16952 VA	36	-	-				••	
LC-7AU		3	2	30	6	200	37	21243 VA						38							
		-	-	-	-		39			21290 VA				40							
		-	-	-	-		41					20816 VA		42							
				TOTAL	PANEL	LOAD (	KVANØ):	15	3.3		2.9	15	2,5								
										45	8.7										
																		CONNLI		DEM FACT	DEM LOAD
													COMMER		AD			139.1 k		1.00	139.1 KVA
													DWELLIN					319.6 k		0.44	140,6 KVA
													TOTALLO					458.7	kVA		279.7 kVA
													DEMAND	WPS							776.5 A

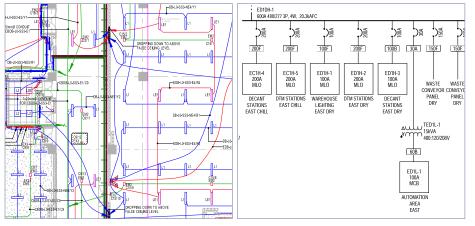
#### Panel Schedule

	ELECTRICAL FIX	TURE SCHEDULE A	<b>\</b>	
LEVEL	TYPE	NUMBER OF POLES	VOLTAGE	QUANTITY
LEVEL 1	JUNCTION BOX	1	120V	32
LEVEL 1	JUNCTION BOX	2	208V	18
LEVEL 1	RECEPTACLE	1	120V	134
LEVEL 2	JUNCTION BOX	1	120V	7
LEVEL 2	JUNCTION BOX	2	208V	7
LEVEL 2	RECEPTACLE	1	120V	201
LEVEL 2	RECEPTACLE 2 POLE	2	208V	12
LEVEL 2	RECEPTACLE FLOOR MOUNTED	1	120V	6
LOFT	JUNCTION BOX	2	208V	6
LOFT	RECEPTACLE	1	120V	48

Fixture Schedule

# 5.4 Drawings

- One Line Drawing
  - Circuit Connections Drawings (Lighting & Power)
- Riser/ Schematic Drawings
  Detail, Section & Isometric Drawings

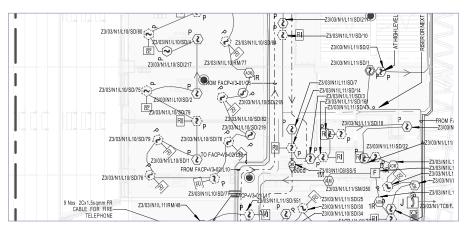


Lighting Circuit Connection Drawings

One Line Drawing

# 5.5 Fire Alarm System

- Zone Layout Panel Schedule (MAP, SAP & Repeater Panel)
- Layout Generation
  Schematic Drawing

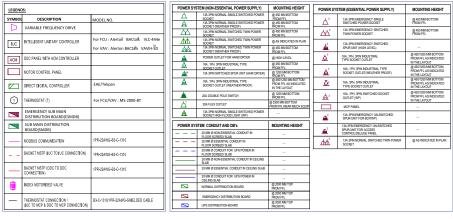


Fire Alarm System

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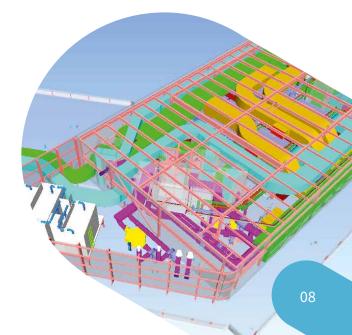
# 5.6 Quantity Take-Off

During the design phase 3D model provides detailed material quantities of all items and enables accurate cost estimate to ascertain if the design meets the project budget. We produce accurate and timely estimate throughout a project for controlling costs. Using our BIM software tools, we help the designers to explore various design alternatives and make decisions to reduce cost and take energy saving options and project life cycle cost.



Lighting & Power

Switch & Power Outlets



# 6. Plumbing Design Engineering

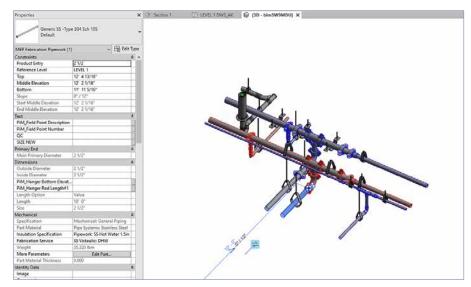
# 6.1 Pump Head Calculation

# Control Transfer Cont

Pressure Drop Calculations

# 6.2 Pipe Sizing and Layout Generation

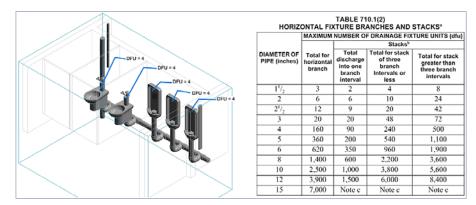
Water Supply
 Waste & Vent
 Medical Gas
 Natural Gas



Automatic Flow Calculation Based on Fixture Unit Values

Section No	DescriptionPipe / Fitting	Pipe diameter (mm)	Flow rate (I/s)	Length (m)	Equivalent lengthfor fitting( m)	Friction loss ( Pa/m) (Extracted from table)	Total friction loss (FL x L/EL)(Pa)
01	Pipe	50	20.5	4		70	280
	Fitting(Strainght 90 deg Elbow)	50	20.5		3.3	70	212.8

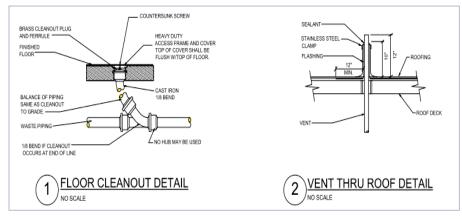
Pump Head Calculations



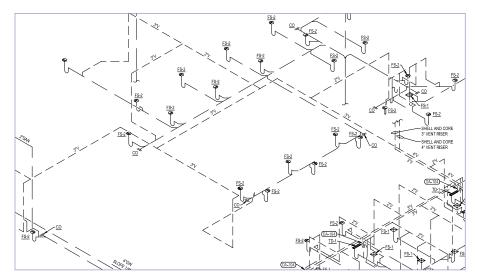
Assign Required Flow to Plumbing Fixtures Pipe Sizes Selected as per System Requirements using IPC

### 6.3 Riser / Schematic Drawing

### 6.4 Detail, Section & Isometric Drawings



Section & Detail Drawing



Isometric Drawing

# 6.5 Quantity Take Off

	WHP: Hote	el L-3 Pipe Bill	of Material	
Size	Pipe	Material	Length (inch)	Length (ft)
1-1/2"	No-Hub Pipe	Cast Iron	44.664	3.722
2"	No-Hub Pipe	Cast Iron	2963.668	246.9723333
3"	No-Hub Pipe	Cast Iron	1600	133.3333333
4"	No-Hub Pipe	Cast Iron	1819.556	151.6296667
6"	No-Hub Pipe	Cast Iron	213.657	17.80475
8"	No-Hub Pipe	Cast Iron	231.91	19.32583333
10"	No-Hub Pipe	Cast Iron	232.063	19.33858333
1"	Type L-HL-20ft	Copper	3553.248	296.104
3/4"	Type L-HL-20ft	Copper	119.6	9.966666667
1-1/2"	Type L-HL-20ft	Copper	115.988	9.665666667
1-1/4"	Type L-HL-20ft	Copper	3166.772	263.8976667
2"	Pipe-B88-CU-L(PE)	Copper	116.027	9.668916667
2-1/2"	SCH-40S-PIPE	Stainless Steel	116	9.666666667
3"	SCH-40S-PIPE	Stainless Steel	116	9.666666667
4"	CPVC Pipe	CPVC	116.004	9.667

Quantity Take-Off for Pipes

# 7. 3D Modeling

The detailed design can be converted into 3D, corresponding roughly with the LOD 300 Revit model. Analysis based on specific systems along with Constructability Review, Clash Coordination and Design Optimization can be performed, and the model is leveraged for the generation of traditional Construction Documents and BoQ.

# 7.1 Constructability Reviews

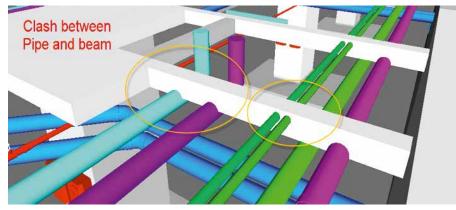
Virtual Construction of project in BIM enables Independent Review of the Construction Plans and Specifications. This identifies discrepancies in drawings and all constructability issues at the design stage. During the constructability review, our BIM team generates a series of RFI's to identify the following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

- Missing information/documents
- Input inconsistencies
- Conflicting data
- Operation clearance and accessibility issues
- Feasibility of support systems
- No Fly-zones

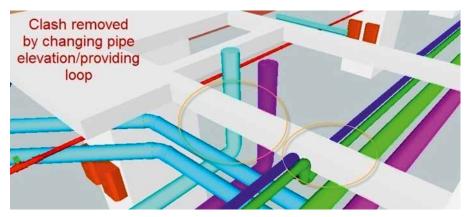
BIM model is updated based on RFI response. Status of all RFIs is maintained in a log and follow-up is done to resolve them. This ensures delivery of quality construction documentation.

# 7.2 Clash Coordination & Optimization

Our coordinated BIM models allow our clients to check possible interference among all building systems. They help design firms to visualize the entire building system before the beginning of construction, leading to better project planning. This eliminates rework during the construction phase, saving time and money. We resolve clashes among all trades including architectural, structural, mechanical, electrical, plumbing, fire protection, concrete and several other trades by sharing 3D clash Navis viewpoints or through WebEx meetings. We re-route utilities, change elevation and re-size elements for resolving clashes. Moreover, we provide Value Engineering for improving system efficiency, reducing costs and easier maintenance of construction. Coordinated moels are used for making quantity takeoffs, estimation and location scheduling.



Before Coordination

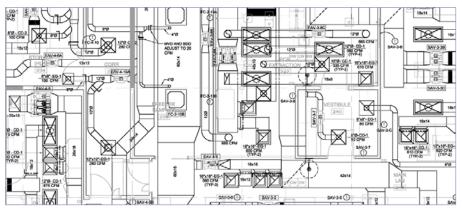


After Coordination

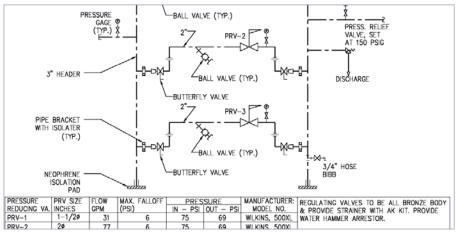
# 7.3 Construction Documents (CD Sets)

Construction documents are generated from the detailed BIM coordinated models. Our BIM Models represent the most comprehensive drawings, depicting each component with technical information.

- All construction documents are cohesive and consistent in spite of changes.
- Any change in the DD (Design Document) drawings, updates the model.
- Sections are generated seamlessly for any critical arrangement.



Mechanical plan



Pressure reducing valve station detail

# 8. Why Pinnacle

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



# 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.

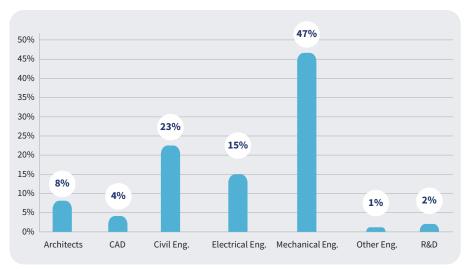
# Honesty

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.

# 9. 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



# 10. 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.



# 11. 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.

# 12. Our Projects

# Buffalo Bayou Autry Park

Houston, USA



# The Domino's Village Tennessee, USA



# Spanish Peaks SKI Duplexes Montana, USA



N Clybourn Chicago, USA



#### Rochester Ville Phase 1 Ottawa, Canda



Six88 Golden Gate Point Chicago, USA



# 13. Clients Speak

"This project went very well; we plan to expand our usage of the Pinnacle team on future projects."

# **OBERNEL Engineering, USA**

"We really need Pinnacle to be an extension of our office. We need you to retain the training we have provided and apply it to every project."

# MEP Delta Design, LLC, USA

"Pinnacle team is diligent, hard-working, and very responsive to requests or concerns of this large and challenging project. I enjoy working with them, and their considerable assistance in this project is evident."

# Swanson Rink, USA

"We are thrilled to have found a group like yours that service all our MEP drafting needs, and at record response. We truly feel like you have met and exceeded everything we could have asked of your group. We look forward to a long and bright future together."

# MCC Group, USA

"I was given exactly what I asked for. Everyone was very helpful and responsive. Thanks to everyone who worked on this for us. We were in a short turn around schedule and did not have the manpower to respond. I believe Pinnacle is a great resource for supplementing our force. Construction is unpredictable and keeping ample coordination manpower for all situations is difficult. Thanks again."

# TD Industries, USA

"The team has been in front of the rest of the team for building for coordination of changes and detailing. Great Job."

# Haltom Engineering, USA

"The Team was a tremendous help in setting up and generating drawings for multiple sites included in this renovation project package. Responsiveness to markups submitted and associated queries or requests for discussion of unclear tasks is incredibly helpful."

# Envision Mechanical Engineers, Inc., USA

"This was our first experience with Pinnacle, and we at Waldrop were satisfied with the level of performance by the Pinnacle team. We were under extreme pressure to deliver under a tight deadline and your team aided us in doing so. We appreciate your work and look forward to other successful projects together."

# Waldrop Mechanical Services, USA

"We have been extremely happy with Pinnacle's work to date on the PHMC. You have done a great job coming up with solutions to conflicts and your response time to our requests has been top notch. Thank you!"

# Schmolck Mechanical Contractors, Inc., USA

"Communication between different time zones has its challenges. One must be completely clear about what they want and offer. Considering the 11:30 hr difference I am very pleased with the results. The correspondence I received was cordial and concise. The product I received was prompt and well developed."

# U.S. Engineering Company, USA

"I am pretty happy with the product received from Pinnacle. We have been using Pinnacle's services for quite a while now and working with them closely to get good outputs. The Bethesda Butler project had a pretty easy plan and spec job so it went smoothly."

# Grote Enterprises LLC, USA

"Pinnacle did a very good job meeting the fast paced schedule and requirements of the Kenwood IRC BIM project. They did a great job of identifying discrepancies between the project scheduled equipment and the equipment shown on the floor plans as well as pointing out areas where there was not enough space for the mechanical equipment."

# North American Mechanical, Inc., USA

### **India Office Locations**

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#### Jaipur

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#### Kolkata

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