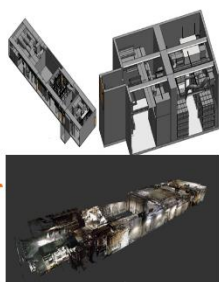


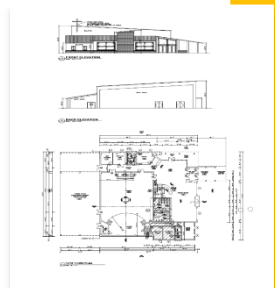
SURVEY (SCAN TO BIM)

BIM SERVICES

Creation of 3D Model



Construction Drawing



COBIE BIM

Item	Description	Value	Unit	Design
Item 1	Item 1	1.0000	1.0000	1.0000
Item 2	Item 2	1.0000	1.0000	1.0000
Item 3	Item 3	1.0000	1.0000	1.0000
Item 4	Item 4	1.0000	1.0000	1.0000
Item 5	Item 5	1.0000	1.0000	1.0000
Item 6	Item 6	1.0000	1.0000	1.0000
Item 7	Item 7	1.0000	1.0000	1.0000
Item 8	Item 8	1.0000	1.0000	1.0000
Item 9	Item 9	1.0000	1.0000	1.0000
Item 10	Item 10	1.0000	1.0000	1.0000
Item 11	Item 11	1.0000	1.0000	1.0000
Item 12	Item 12	1.0000	1.0000	1.0000
Item 13	Item 13	1.0000	1.0000	1.0000
Item 14	Item 14	1.0000	1.0000	1.0000
Item 15	Item 15	1.0000	1.0000	1.0000
Item 16	Item 16	1.0000	1.0000	1.0000
Item 17	Item 17	1.0000	1.0000	1.0000
Item 18	Item 18	1.0000	1.0000	1.0000
Item 19	Item 19	1.0000	1.0000	1.0000
Item 20	Item 20	1.0000	1.0000	1.0000
Item 21	Item 21	1.0000	1.0000	1.0000
Item 22	Item 22	1.0000	1.0000	1.0000
Item 23	Item 23	1.0000	1.0000	1.0000
Item 24	Item 24	1.0000	1.0000	1.0000
Item 25	Item 25	1.0000	1.0000	1.0000
Item 26	Item 26	1.0000	1.0000	1.0000
Item 27	Item 27	1.0000	1.0000	1.0000
Item 28	Item 28	1.0000	1.0000	1.0000
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Item 30	Item 30	1.0000	1.0000	1.0000
Item 31	Item 31	1.0000	1.0000	1.0000
Item 32	Item 32	1.0000	1.0000	1.0000
Item 33	Item 33	1.0000	1.0000	1.0000
Item 34	Item 34	1.0000	1.0000	1.0000
Item 35	Item 35	1.0000	1.0000	1.0000
Item 36	Item 36	1.0000	1.0000	1.0000
Item 37	Item 37	1.0000	1.0000	1.0000
Item 38	Item 38	1.0000	1.0000	1.0000
Item 39	Item 39	1.0000	1.0000	1.0000
Item 40	Item 40	1.0000	1.0000	1.0000
Item 41	Item 41	1.0000	1.0000	1.0000
Item 42	Item 42	1.0000	1.0000	1.0000
Item 43	Item 43	1.0000	1.0000	1.0000
Item 44	Item 44	1.0000	1.0000	1.0000
Item 45	Item 45	1.0000	1.0000	1.0000
Item 46	Item 46	1.0000	1.0000	1.0000
Item 47	Item 47	1.0000	1.0000	1.0000
Item 48	Item 48	1.0000	1.0000	1.0000
Item 49	Item 49	1.0000	1.0000	1.0000
Item 50	Item 50	1.0000	1.0000	1.0000

Index

- About us
- Services we do
- Execution Process
- D & D Core Team
- Project Reference
- Contact US

About us

Survey or Scan to BIM or Point Cloud is the process in which an existing building or structure is scanned through a 3D laser scanning device, and the scanned data is then converted into a 3D BIM model to get a detailed virtual representation and as-built information of the building.

This service is required by major construction companies, builders, architects and contractors for preparing existing building model and drawing sheets.

We have separate point cloud team capture detailed information about an element in its physical space and allow precise and accurate modeling, coordination and quantity take-off. We have executed several projects at renovation or extension stage for point cloud to BIM for international clients in USA, Canada, Australia, New Zealand & UK, Ireland with other European countries.



6+
Years' Experience

300+
Completed Projects

150+
Customer world wide

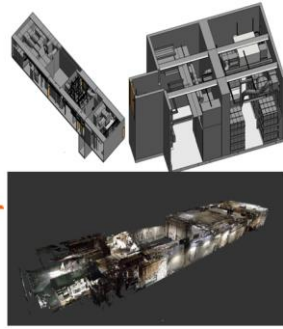
TRADES TO COVER

- Architectural Model
- Structural Model
- Site Model
- Mechanical Model
- Electrical Model
- Plumbing Model
- Fire Model
- Basic Drawings from Model
- Animation/Rendered Snapshot

SURVEY BIM SERVICES

- CREATION OF 3D MODEL
- CONSTRUCTION DRAWING
- COBIE BIM

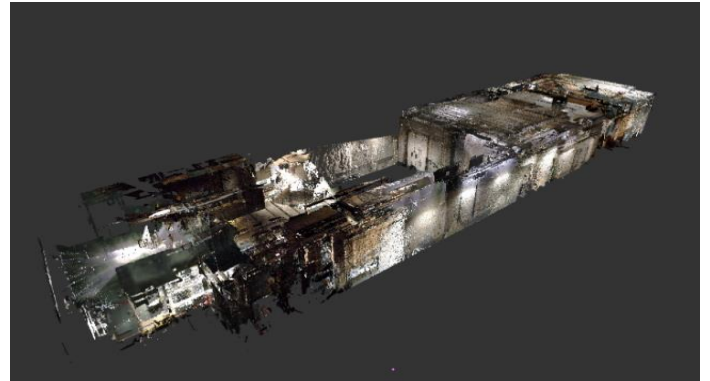
Creation of 3D Model



We create 3D model from scan document or point cloud files. We use to link the impact scan files to revit to work on for all trades each element as per standard requirement.

Supporting Software Applications like Revit & Autodesk Recap 360 Pro for Point Cloud help to visualize and navigate the point cloud files properly. Moreover, by using these software platforms, files can be compressed and dimensions can be easily obtained for BIM model.

- Scan data (RCS) supporting
- Actual Snapshots of existing condition
- As-built drawings
- COBIE data format for BIM
- Element Tag for modeling



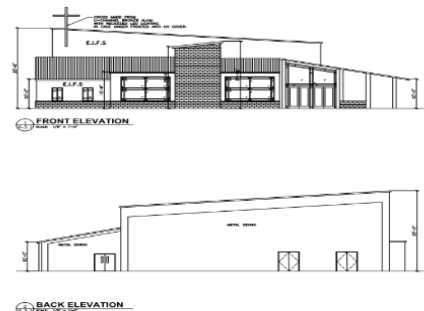
Construction Drawing



Once 3D model works use to completed. We do our standard QC1 to finalize the 3D model. After approval from the client, we use to generate the construction drawings or as built drawing sheet with proper annotation and dimension and standard requirement.

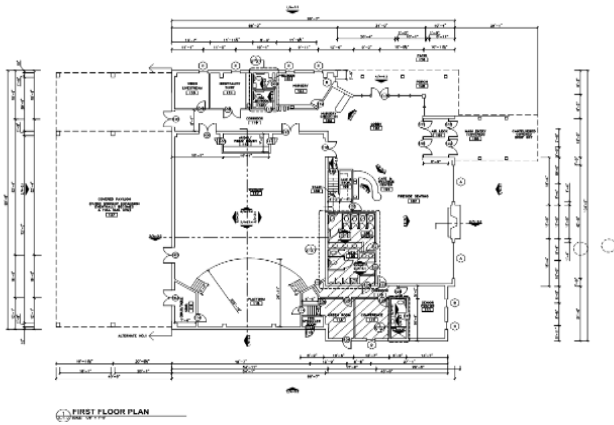
Input

Approved 3D model



Input Requirement for BIM modeling & Drawings:

- Scan plan with number
- point cloud files as per the formats like. Obj. Sbj



COBIE BIM

Parameter	Value	Brand	Schweigen S
Search parameters		Product Type	Onboard Rangehood
Dimensions		Product Category	Undermount
ManufacturerOverallHeight	1190.0	Product Model	MSWX90
ManufacturerOverallDepth	500.0	Product Code/SKU	MSWX90
ManufacturerOverallWidth	898.0	EAN	9343415007112
Identity Data		Product Descriptor	Undermount Rangehood 900mm (Non-Silent) - MSWX90
Airflow (m3/h)	900	Dimensions	600 x 1200 x 1200mm
Control	Soft-touch	Lights	2 x LED
FanSpeeds	5	Wattage	2
FilterQty	3	Filter Type	Stainless Steel - Baffle
FilterType	Stainless Steel - Mesh	Filter Qty	2
InbuiltMotorPower	-	Finish	Stainless Steel
Lights	2 x LED	Motor Type	Single Internal Motor
MotorType	Single External Motor	Fan Speeds	5
ProductCategory	Wallmount	Airflow (m3/h)	1110
ProductType	Silent Rangehood	dBA	47.1
Type Image		dBA	66.9
Keynote		Inbuilt	260W
Model	WM2190S	Control	Touch & Remote
Manufacturer	Schweigen	Auto Off	10 min
Type Comments		Warranty on Motor	-
URL		Warranty on Canopy	-
Description	Silent Wallmount Rangehood 900mm	Warranty on Unit	5 Years
Assembly Code		Warranty on Filters	Lifetime
Cost		Warranty on GU10	-
WarrantyOnCanopy	5 Years	Globes	
WarrantyOnFilters	Lifetime		
WarrantyOnMotor	10 Years		
WarrantyOnUnit	-		
Wattage	3		

Search parameters

Parameter	Value
Dimensions	
ManufacturerOverallHeight	1190.0
ManufacturerOverallDepth	500.0
ManufacturerOverallWidth	898.0
Identity Data	
Airflow (m3/h)	900
Control	Soft-touch
FanSpeeds	5
FilterQty	3
FilterType	Stainless Steel - Mesh
InbuiltMotorPower	-
Lights	2 x LED
MotorType	Single External Motor
ProductCategory	Wallmount
ProductType	Silent Rangehood
Type Image	
Keynote	
Model	WM2190S
Manufacturer	Schweigen
Type Comments	
URL	
Description	Silent Wallmount Rangehood 900mm
Assembly Code	
Cost	
WarrantyOnCanopy	5 Years
WarrantyOnFilters	Lifetime
WarrantyOnMotor	10 Years
WarrantyOnUnit	-
Wattage	3

Brand	Schweigen X
Product Type	Onboard Rangehood
Product Category	Undermount
Product Model	MSWX90
Product Code/SKU	MSWX90
EAN	9343415007112
Product Descriptor	Undermount Rangehood 900mm (Non-Silent) - MSWX90
Dimensions	W:900 x D:295 x H:325mm
Lights	2 x LED
Wattage	2
Filter Type	Stainless Steel - Baffle
Filter Qty	2
Finish	Stainless Steel
Motor Type	Single Internal Motor
Fan Speeds	5
Airflow (m3/h)	1110
dBA	47.1
(Low) - 0.3m front	
dBA	66.9
(High) - 0.3m front	
Inbuilt	260W
Motor Power	
Control	Touch & Remote
Auto Off	10 min
Warranty on Motor	-
Warranty on Canopy	-
Warranty on Unit	5 Years
Warranty on Filters	Lifetime
Warranty on GU10	-
Globes	

COBIE data is the technical information or approved technical submittals which are collected from scanned submittals.

We use to fix parameter sheet from submittals or sometime client use to same with us the standard parameter to fill.

We incorporate COBIE data after completion and approval of BIM 3D model.

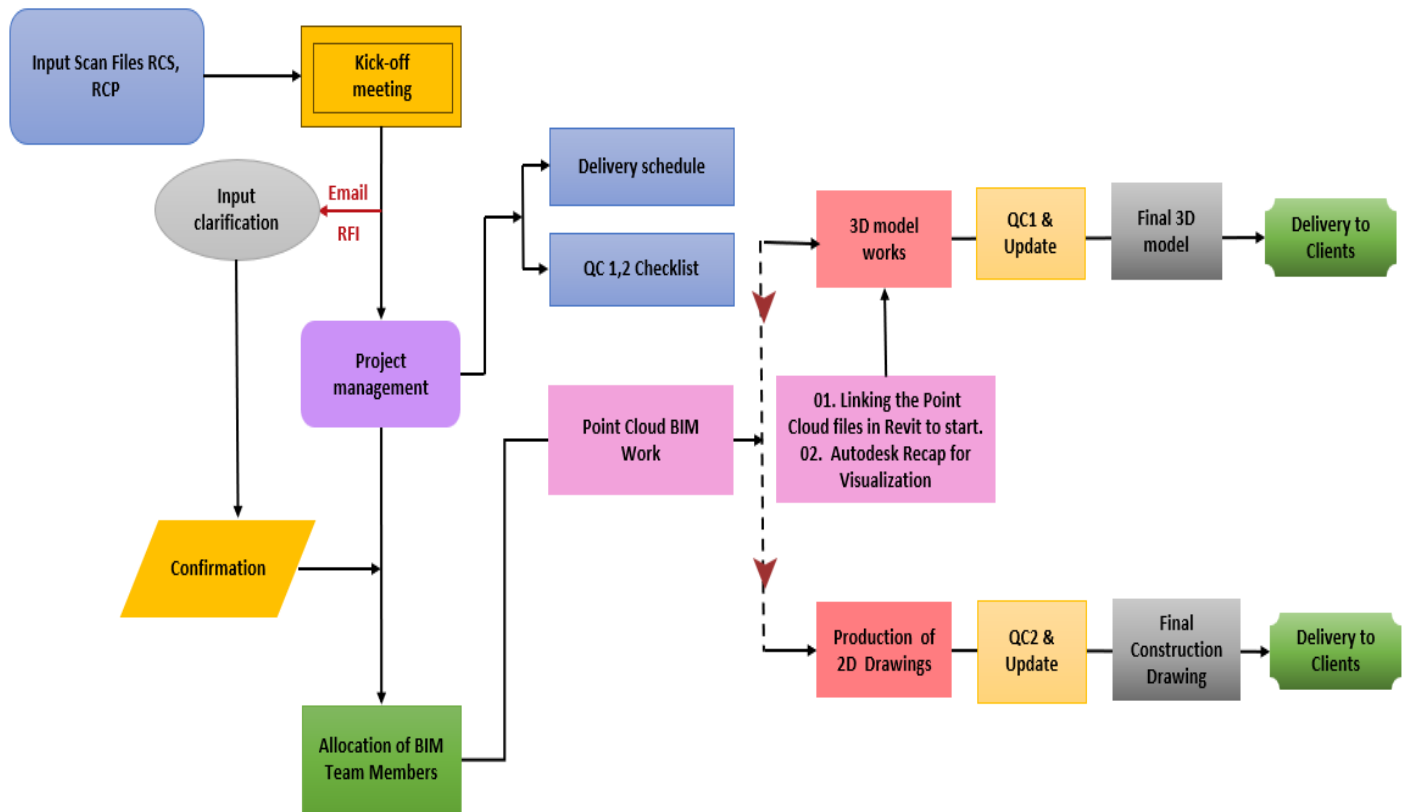
Our BIM team to incorporate the COBIE data in the BIM model, family which use to control and maintained for BIM records as built.

This data use very handy for as built records and controls.

Input

Project stakeholders to organize approved electronic submittals during project renovation and extension through facility management.

Execution Process



QC-1



QC 1 – 3D Model Checklist – AEC POINT CLOUD

Date: 09-01-2025 Rev: R0

ARCHITECTURE
1 GRID PLACEMENT & DIMENSION
2 LEVEL CREATION
3 EXTERNAL WALL, INTERIOR WALL
4 DOOR, WINDOW
5 FOUNDATION (IF APPLICABLE)
6 FLOOR SLAB & FINISH
7 CEILING/ROOF
8 EXTERIOR TREATMENT (DIFF WALL PROFILE, SWEEP, REVEAL ETC.)
9 MILLWORK & FFE (IF APPLICABLE)
10 SANITARY FIXTURES (IF APPLICABLE)
11 SITE TOPOGRAPHY & RELEVANT FEATURES
12 WALL SECTIONS
13 WALL JUNCTION DETAILS
14 FOUNDATION DETAILS (IF APPLICABLE)
15 DOOR DETAIL (HEAD & JAMB DETAIL)
16 WINDOW DETAIL (HEAD, JAMB & SILL DETAIL)
17 CEILING DETAILS
18 ROOF DETAILS
19 EAVE DETAILS
20 MILLWORK & FFE DETAILS (IF APPLICABLE)
21 SANITARY FIXTURES (IF APPLICABLE)

STRUCTURAL
1 PILE
2 FOOTING
3 COLUMN
4 CONCRETE PIRE
5 PEDESTAL
6 PILASTER
7 BEAM
8 COLUMN CAP
9 DROP PANEL
10 WALL
11 LINTEL
12 CANOPY
13 PIT
14 INSERT PLATE
15 SLAB
16 FLOOR SLOPE
17 FLOOR DROP / FOLD
18 FLOOR DRAIN
19 FLOOR DECK
20 JOINT
21 TRENCH
22 PAD

MECHANICAL DUCTING
1 DUCT LINER
2 WRAPPING
3 ELBOWS FOR
4 SPIRAL DUCT
5 TAPS
6 TRANSITION
7 END CONNECTION
8 FLEX
9 DAMPER INFORMATION
10 CEILING ACCESS
11 VAV INFORMATION
MECHANICAL PIPING
1 MATERIAL
2 SLOPING
3 FITTINGS
4 INSULATION REQUIREMENT
5 HANGER SPECING

ELECTRICAL
1 ELECTRICAL FIXTURE
2 CABLE SIZE
3 DB/MCC/LCP NAME
4 PANELS
5 COMPONENTS
6 CABLE TRAY/TRUNKING
7 CONDUIT SIZES

QC-2



QC2 – D & D DRAWING CHECKLIST - AEC POINT CLOUD

Date: 09-01-2025 Rev: R0

Common Checklist
Title Block
1 Key Plan
2 Revision Check
3 Date
4 Scale
5 Title
6 Consulting Details
7 Client Details
8 Sheet Key Notes
B General Notes and Sheet Key Notes
1 General Notes
2 Sheet Key Notes
C Aesthetic Review / Grid Review
1 Drawing Presentation
2 Grid Check
D Project Specific
1 Sheets Referenced in Appendix A Present
2 Schedules Present
3 Finishes Present
4 Elevations to Finish Schedules Proper
5 Missing Key Drawing-Specific Information
6 Proper Drawing Reference Details
7 Relevant Annotation Information

Architecture
1 Walls, Windows & Fixture Tags
2 Walls, Windows & Fixture Annotations
3 Standard Dimension
4 Schedule Detailed Sheet
5 Legends & Notes
6 Elevations & Sections

Mechanical
1 Duct, Pipe, diffuser & Equipment's dimensions
2 Duct, Pipe, Equipment Elevation Tag (BOD, COP)
3 Equipment & Fixture Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Fire
1 Plumbing Pipe, Fitting & Equipment's dimensions
2 Pipe, Equipment Elevation Tag (COP, BOP)
3 Equipment & Fixture Tags & Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Structural
1 Column, Beam, Slab, Walls
2 Concrete, steel, Foundations
3 Standard Dimension
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Plumbing
1 Plumbing Pipe, Fitting & Equipment's dimensions
2 Pipe, Equipment Elevation Tag (COP, BOP)
3 Equipment & Fixture Tags & Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Legends & Notes

Electrical
1 Electrical Fixtures Dimensions
2 Conduit and Cable Tray Elevations Tag (BOT)
3 Equipment & Fixture Tags & Annotation
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Drawing Notes



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MUMBAI/KOLKATA (INDIA)

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Core Team

Irshad Ali Shaikh

CEO – Co-Founder

Mr. Irshad Ali is the co-owner & founder of DESIGN AND DRAWING SOLUTION. He is having more than 15 years of experience in Building services in construction Industry throughout AEC project execution process from Pre-construction, construction processes like MEP engineering consulting, Designing, installation and handover process of the project.

He has completed BE in Mechanical Engineering from Pune University with Post Graduation in Project Management (PGPPM) from NICMAR Pune, India. In his small journey, he has successfully delivered the more than hundred BIM/CAD project for his satisfied client with the best quality and unique team effort.

He has experienced in all kinds of projects i.e., starting from Residential township, Commercial IT buildings and parks, Malls, High rise building, Hotel, Hospital & Institutional building. Including building Infrastructure projects like metro, airports, globally i.e. USA, Australia, New Zealand & India.

Karishma Bibi

Sales Head

She is the co-owner of DESIGN AND DRAWING SOLUTION and well experienced in offshore sales development initiatives. She is having a good knowledge of result-oriented sales development processes and customer retention. She is leading the complete sales team for B2B sales within the company and managing and monitoring the effectiveness of the entire sales cycle. She has implemented her interior design expertise to improve the technical expertise for client communication for offshore sales which helps her build a long-term relationship with new and existing clientele.

Rupam Mondal

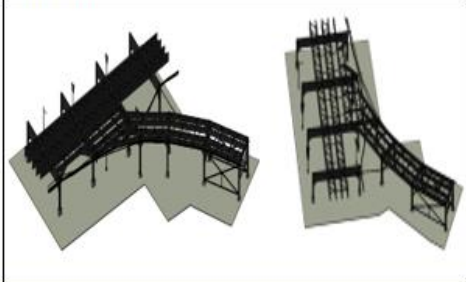
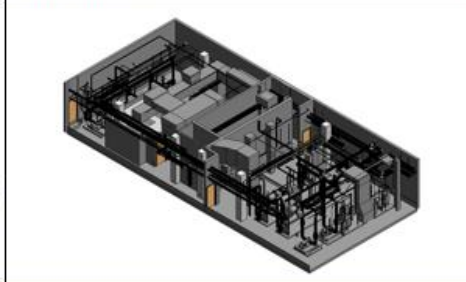
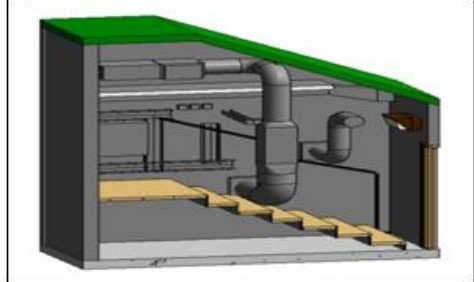
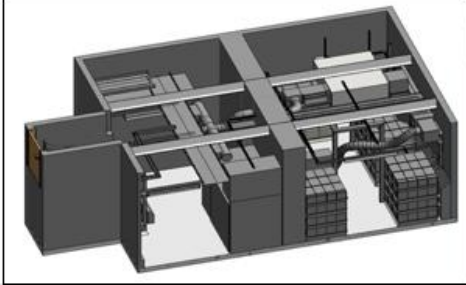

Production Manager

He holds a Mechanical Engineering diploma from WBSCTE, India and having more than 7 years' experience in Building construction Industry for MEP engineering, Drafting, of 3D , 4D , 5D & 6D BIM service .


He is having expertise in MEP engineering calculation, with all Autodesk BIM/CAD tools like Revit , Fabrication, AutoCAD MEP ,Navis works and AutoCAD and has complete knowledge of engineering and drafting services for all stages (Pre/post) of construction process .

He is working in DESIGNING AND DRAWING SOLUTION since from starting period of the company. With a short period of time , He has gained the managing process of the company , client communication, project management process and assisting with innovative (R & D) solution of new process , tools for new requirement of clients.

Project References

Survey (Scan to BIM)		
2142 - CDOT - Damen Green Line	Penthouse	Clive Room
Infrastructure	Plant Room	Plant Room
Chicago, IL, USA	Chicago, IL, USA	London, UK
		
UPS Room	Single family house 3860	
Plant Room	Residential	
London, UK	Atlanta , GA , USA	
		

Contact US



DESIGN AND DRAWING SOLUTION
ONE STOP BIM | CAD | MEP
ENGINEERING SOLUTIONS

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