



MEP COORDINATION AND FABRICATION



SUMMARY

1 ABOUT COMPANY

2 SERVICES

3 WORKFLOW

4 MODELS GALLERY

5 WORK QUALITY

6 CONTACTS

ABOUT COMPANY

We are a team of specialists with experience in implementing BIM-technologies. We believe that BIM is not a future - BIM is today, BIM is right now.

Our main goal is the most effective application of BIM technologies at all stages of project development.

We always look at project tasks through the lenses of engineering perception, which allows us to be one step ahead.



OUR SOFTWARE SKILLS



Autodesk Revit



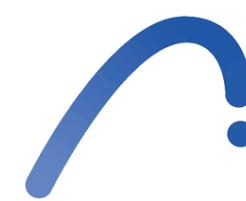
Fabrication CAMduct



Autodesk Autocad



SysQue



Graphisoft Archicad



Autodesk Navisworks



BIMcollab



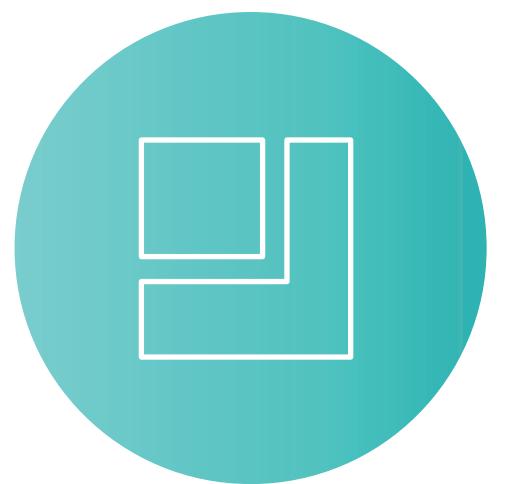
Revizto

MEET OUR TEAM

When a new member comes to our team we know for sure, that whether they stay with us for long or leave, they will definitely get a precious experience and understanding of what teamwork should look like!



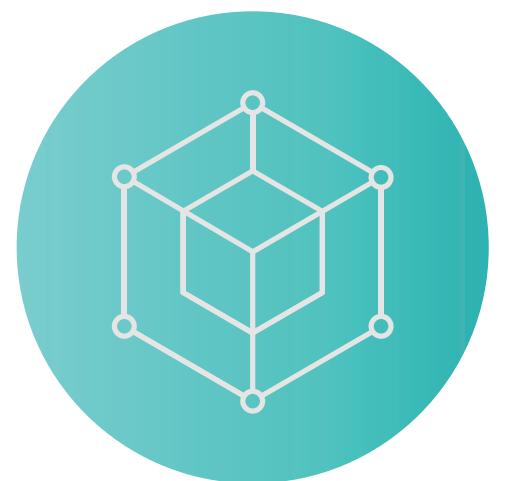
MEP FABRICATION SERVICES



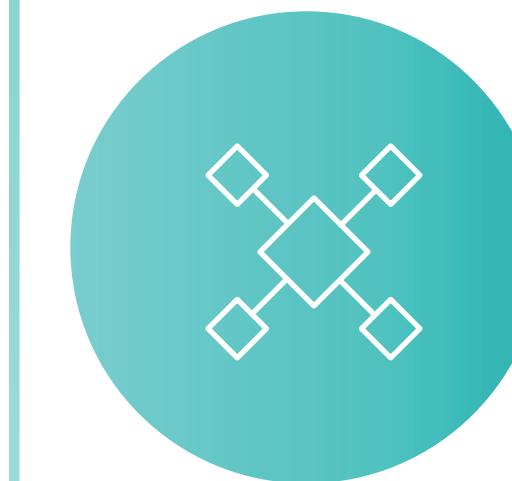
MEP FAMILIES
CREATION



MEP
MODELING



MEP
FABRICATION



COORDINATION

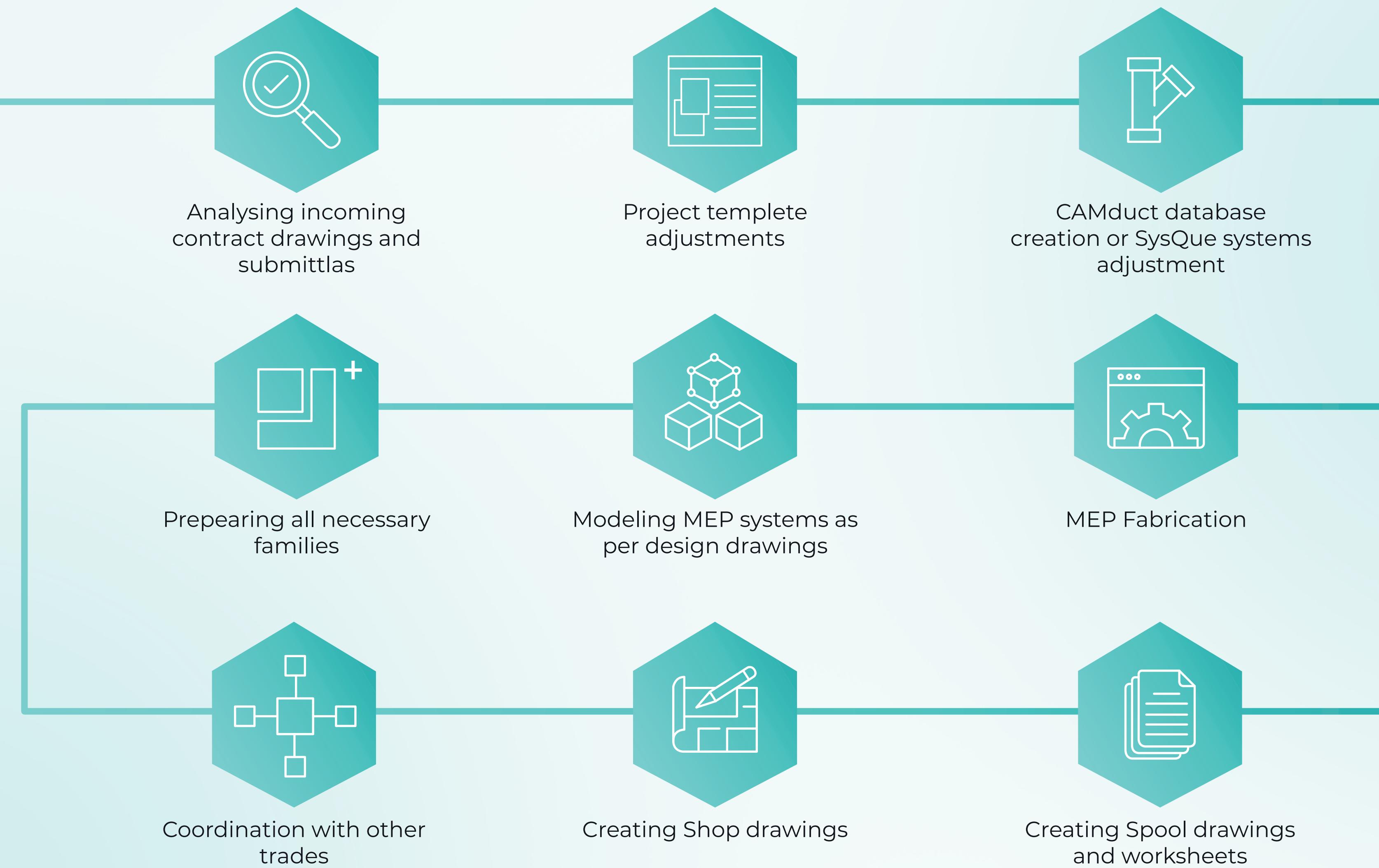


DRAWINGS
CREATION



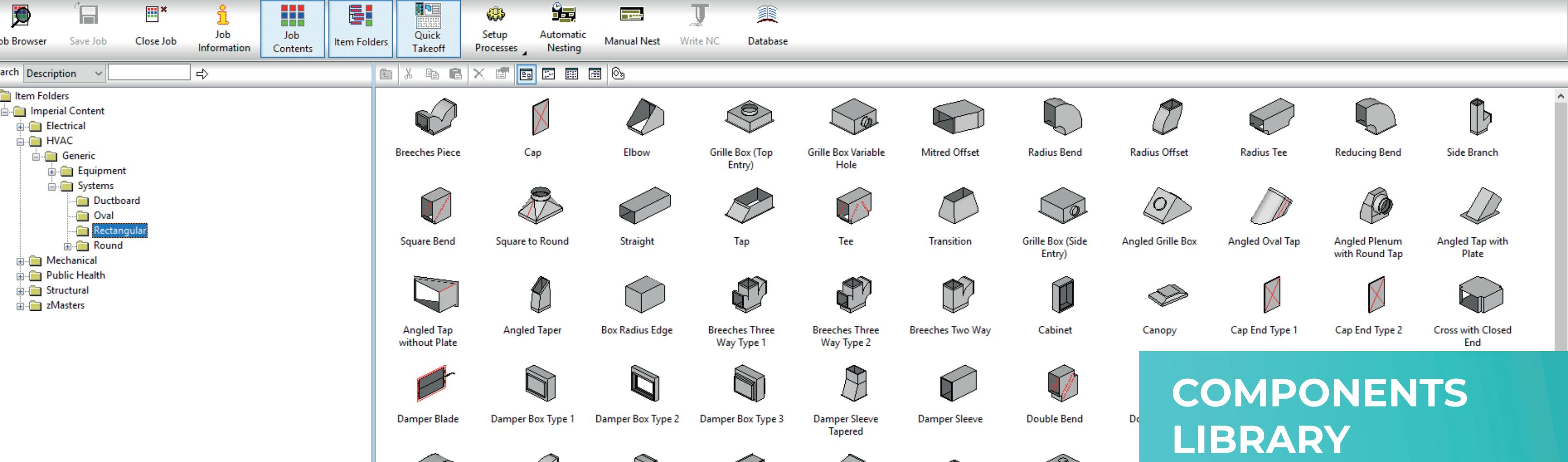
TIME
SCHEDULING

WORKFLOW



DATA BASE CREATION

Every project starts with adjusting its own database. At this first stage we take into account all data provided by customers concerning materials, connections, insulation and services types of ducts and pipes to model HVAC components in the most authentic way.



COMPONENTS LIBRARY

<= LS	<= SS	Gauge	STD Straight	Connector (In)	Connector (Out)	Connector (Sqr-Rnd)	Seam	Stiffener
12,000	12,000	26	24,000	S&D	Not Used	Not Used	PITTS-S	None
26,000	18,000	26	24,000	Standing S&D	Not Used	Not Used	PITTS-S	None
26,000	26,000	24	24,000	TDC	Not Used	Not Used	PITTS-S	None
30,000	30,000	22	24,000	TDC	Not Used	Not Used	PITTS-S	None
84,000	84,000	22	24,000	TDC	Not Used	Not Used	PITTS-S	None
96,000	48,000	20	24,000	TDC	Not Used	Not Used	PITTS-S	None
108,000	108,000	20	24,000	TDC	Not Used	Not Used	PITTS-S	None
999,000	999,000	20	24,000	TDC	Not Used	Not Used	PITTS-S	None

CONNECTORS TYPES

Spec	Dim	Insulation Material
Lagging 1"	9999,000	Thermal Lagging x 1,000

INSULATION TYPES

Service	View
Supply Air	Top Shaded Lines

MAIN MENU

Item No	Name	Size	Qty	Nested	Material	Area	Insulation	Material	Notes

SYSTEM LAYOUT

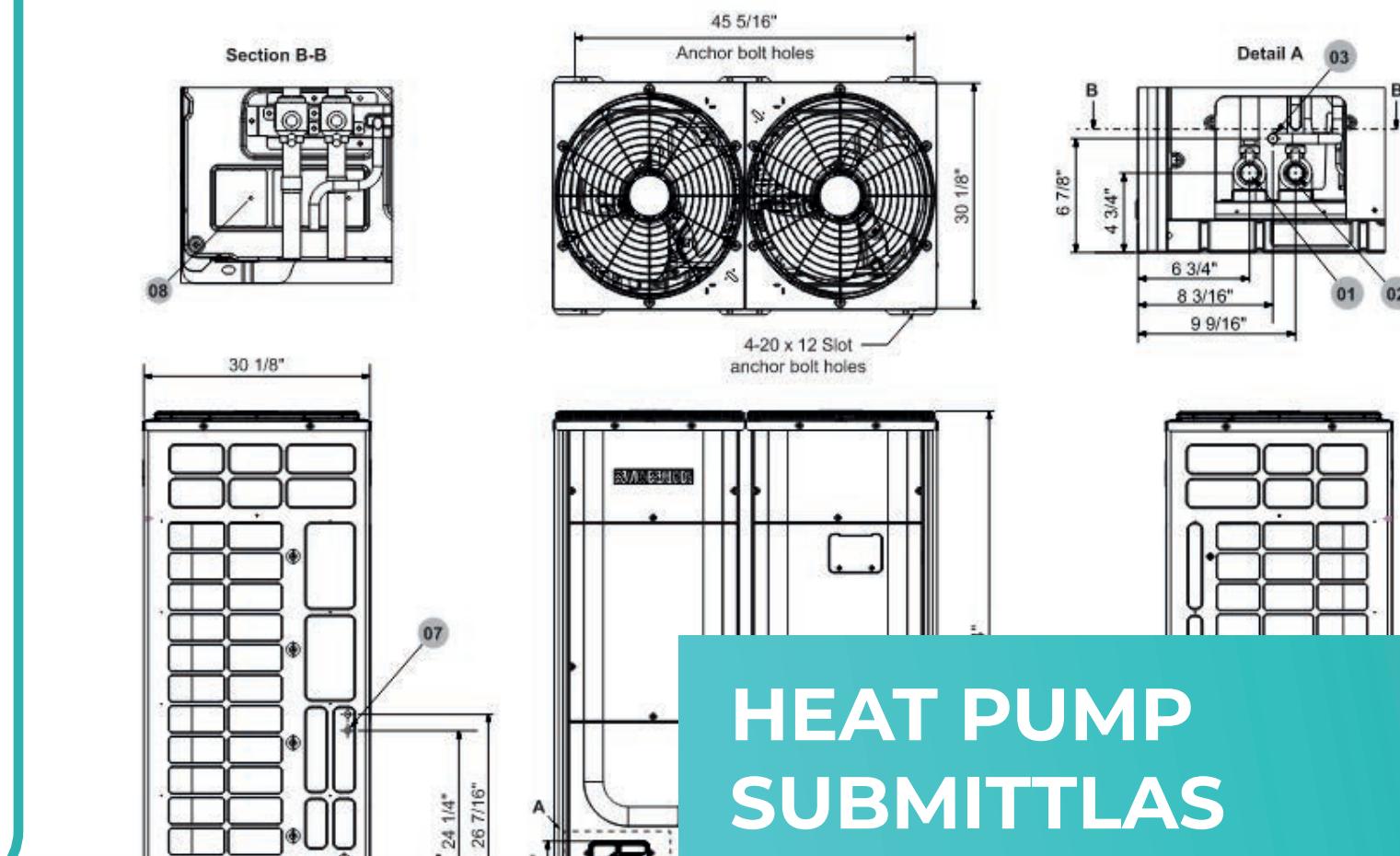
FAMILIES PREPARATION

Using submittals information we download all necessary families from official manufacturer websites or create these families ourselves if they aren't available on the internet. This approach can guarantee 100% model conformity to clients requirements.

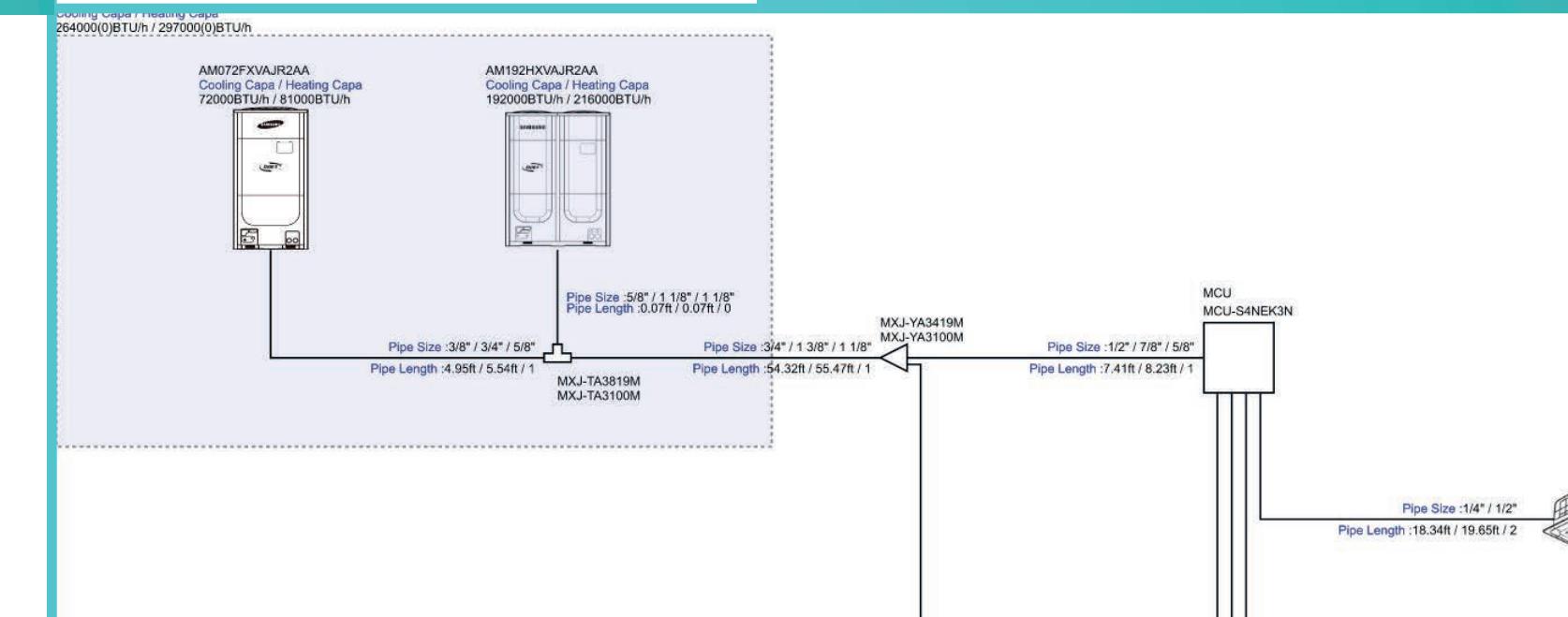


MARK	NOMINAL CAPACITY (TONS)	SERVICE	MANUFACTURER	MODEL	SUPPLY FAN			COOLING			HEAT PUMP HEATING CAPACITY			MIN. O/A (CFM)	ELECTRICAL			
					AIRFLOW (CFM)	MIN HP	ESP (IN)	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB/WB) (°F)	H/PUMP (MBH)	AMBIENT (DB) (°F)	EAT (°F)		V/PH	MCA	MOCP	
FCU-A1	2	1st FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
FCU-A2	2	1st FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
FCU-A3	2	1st FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
FCU-A4	2	2nd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
A5	3	2nd FLR CDOR	FIRST COMPANY	37H00-C	1,200	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135	208/1	4.3	15
A6	2	2nd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
A7	2	3rd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
A8	2	3rd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
A9	3	3rd FLR CDOR	FIRST COMPANY	37H00-C	1,200	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135	208/1	4.3	15
A10	2	4th FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
A11	2	4th FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135	208/1	5.1	15
A12	3	4th FLR CDOR	FIRST COMPANY	37H00-C	1,200	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135	208/1	4.3	15
A13	3	GYM	CARRIER	FX4DNB037	1,200	0.5	0.3	31.2	24.3	80/67	28.6	32.0	60.5	82.7	300	208/1	5.1	15
A14	3	GYM	CARRIER	FX4DNB037	1,200	0.5	0.3	31.2	24.3	80/67	28.6	32.0	60.5	82.7	300	208/1	5.1	15
A15	3	YOGA RM	CARRIER	FX4DNB037	1,200	0.5	0.3	31.2	24.3	80/67	28.6	32.0	63.7	85.8	200	208/1	5.1	15
A16	5	OFFICES	CARRIER	FX4DNB061	1,900	1.0	0.5	49.7	37.9	80/67	58.7	32.0	60.5	87.9	500	208/1	7.5	15
A17	5	LOUNGE	CARRIER	FX4DNB061	1,900	1.0	0.5	49.7	37.9	80/67	58.7	32.0	60.5	87.9	500	208/1	7.5	15
A18	5	LOUNGE	CARRIER	FX4DNB061	1,900	1.0	0.5	49.7	37.9	80/67	58.7	32.0	60.5	87.9	500	208/1	7.5	15
B1	2	1st FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
B2	2	1st FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
B3	2	2nd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
B4	2	2nd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
B5	2	3rd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
B6	2	3rd FLR CDOR	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
B7	2.5	4th FLR CDOR	FIRST COMPANY	32H00-C	1,000	0.5	0.3	27.0	21.6	80/67	34.1	32.0	64.3	91.5	120	208/1	5.1	15
B8	2.5	4th FLR CDOR	FIRST COMPANY	32H00-C	1,000	0.5	0.3	27.0	21.6	80/67	34.1	32.0	64.3	91.5	120	208/1	5.1	15
B9	2	GAME ROOM	FIRST COMPANY	31H00-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120	208/1	5.1	15
C1	2	OFFICES	AMERICAN STANDARD	TMM4A0B36	1,075	0.5	0.3	31.2	24.3	80/67	28.6	32.0	60.5	82.7	300	208/1	5.1	15

MECHENICAL SCHEDULE



HEAT PUMP SUBMITTLAS



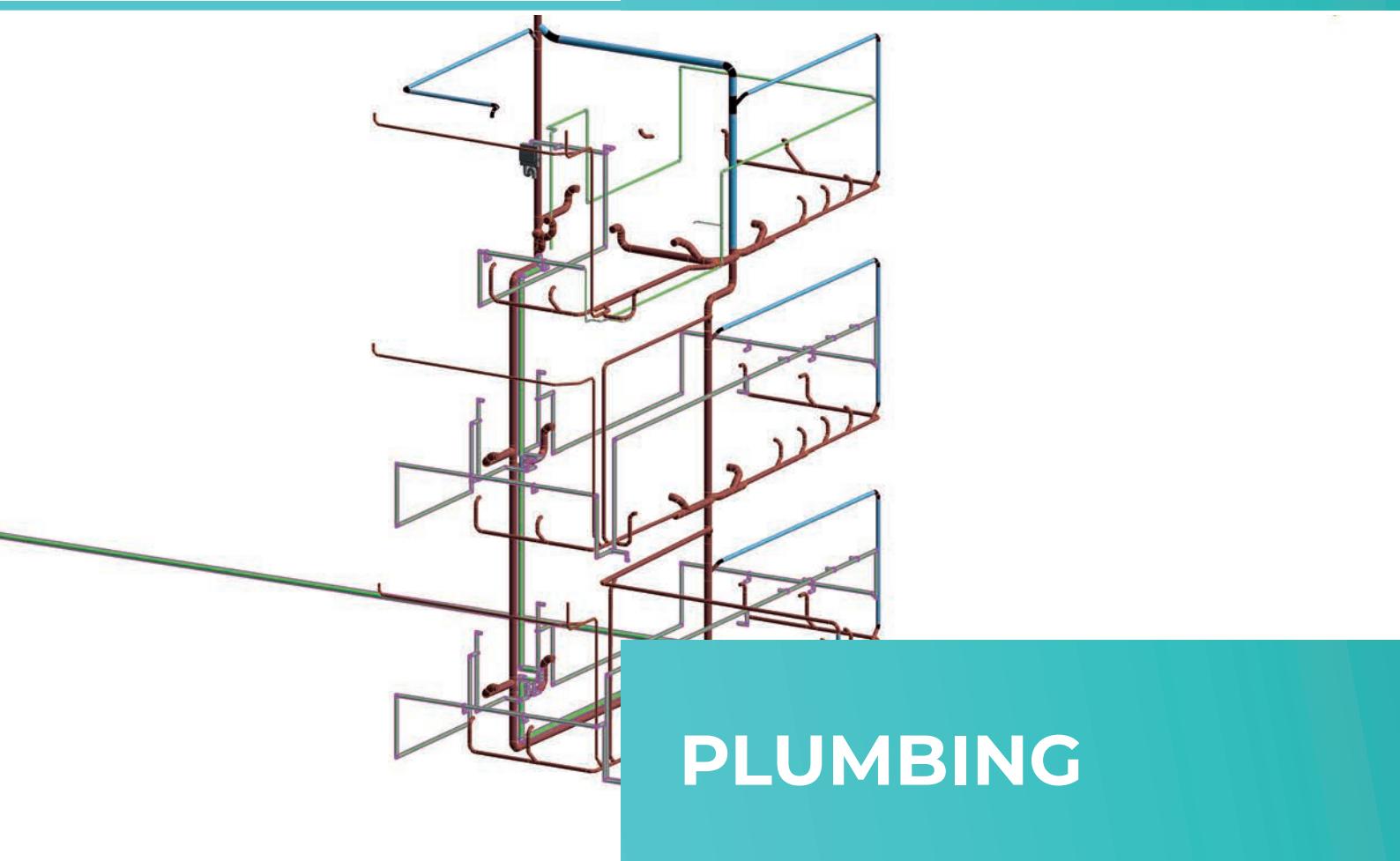
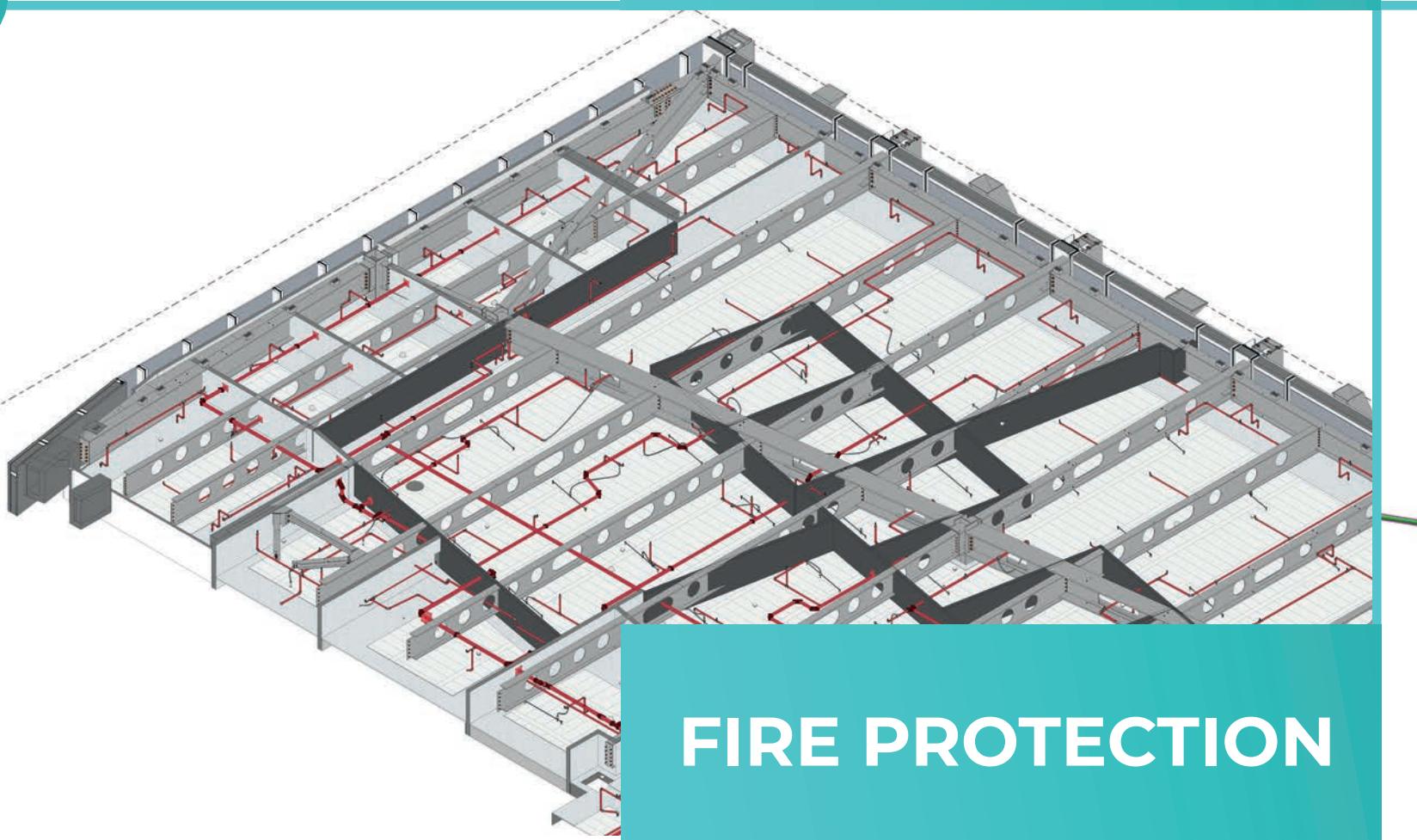
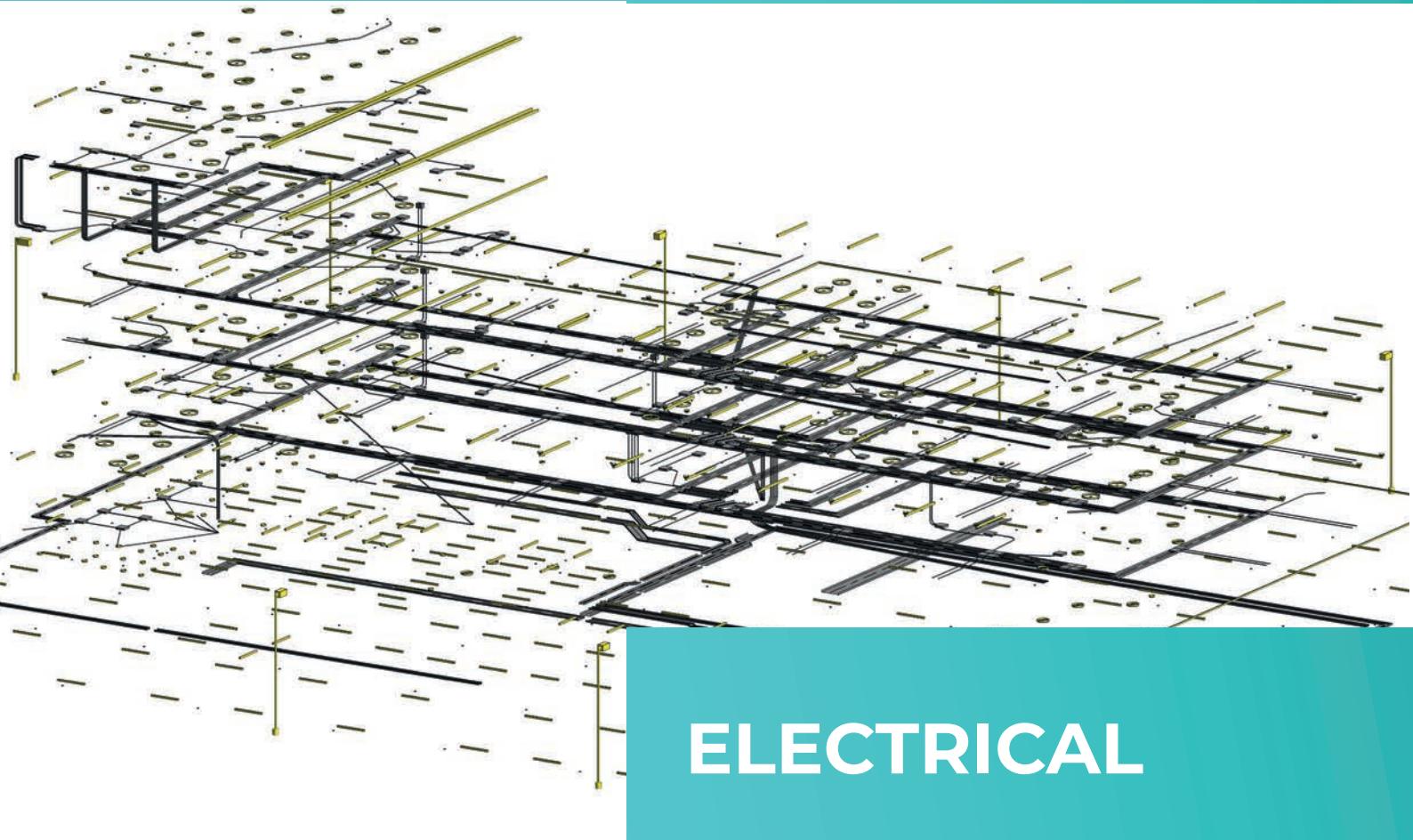
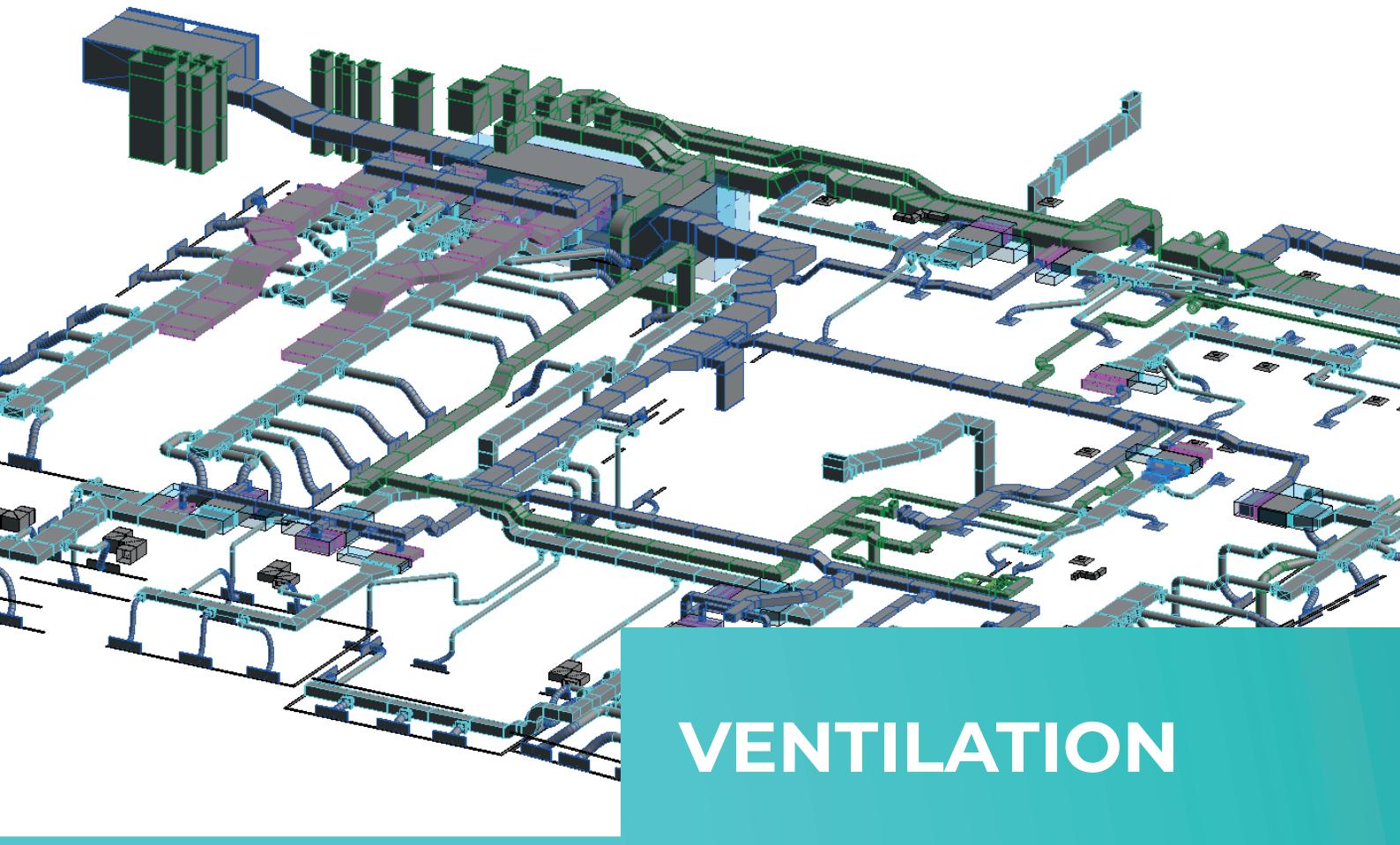
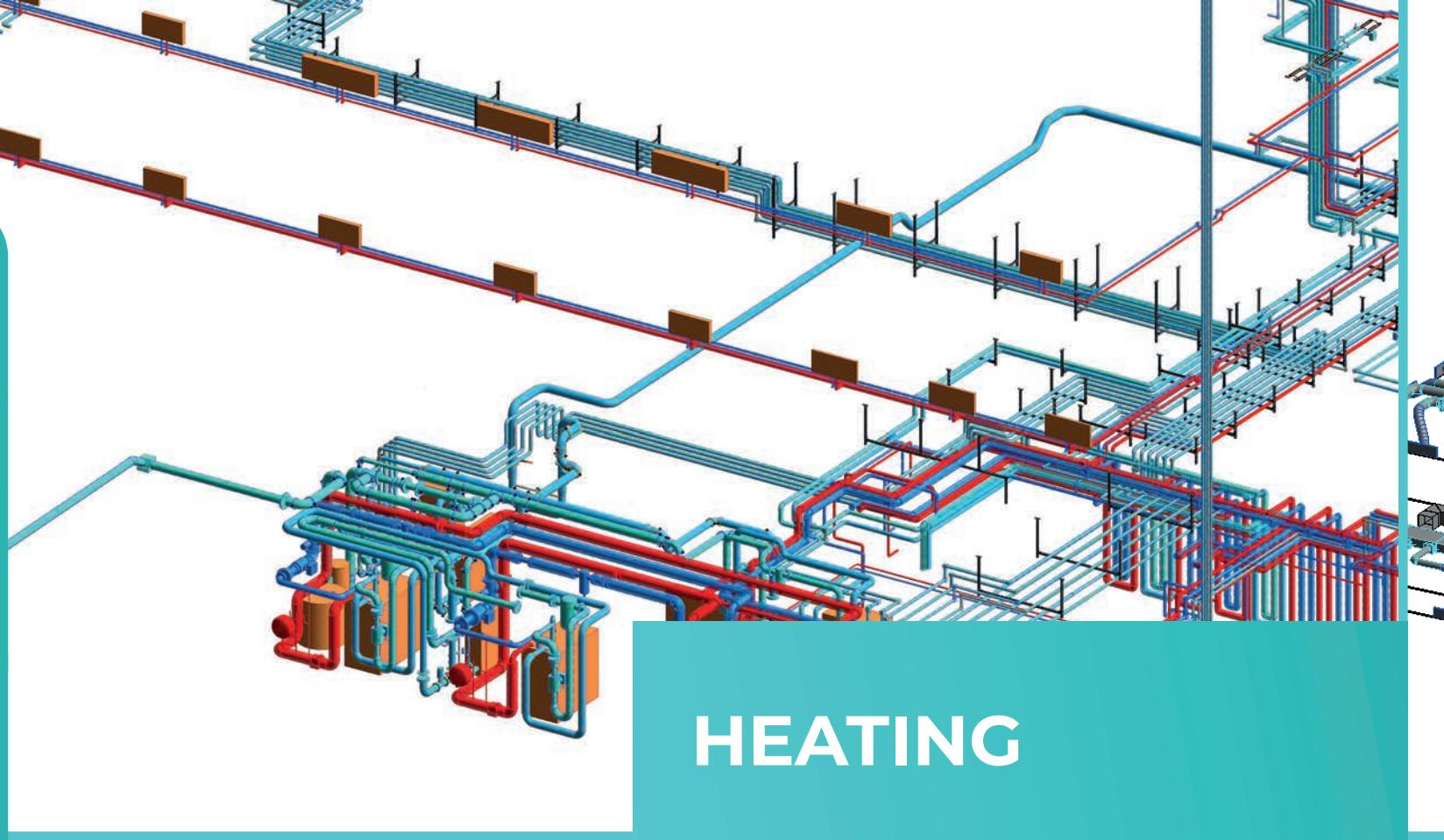
EQUIPMENT LAYOUT



HEAT PUMP FAMILIES

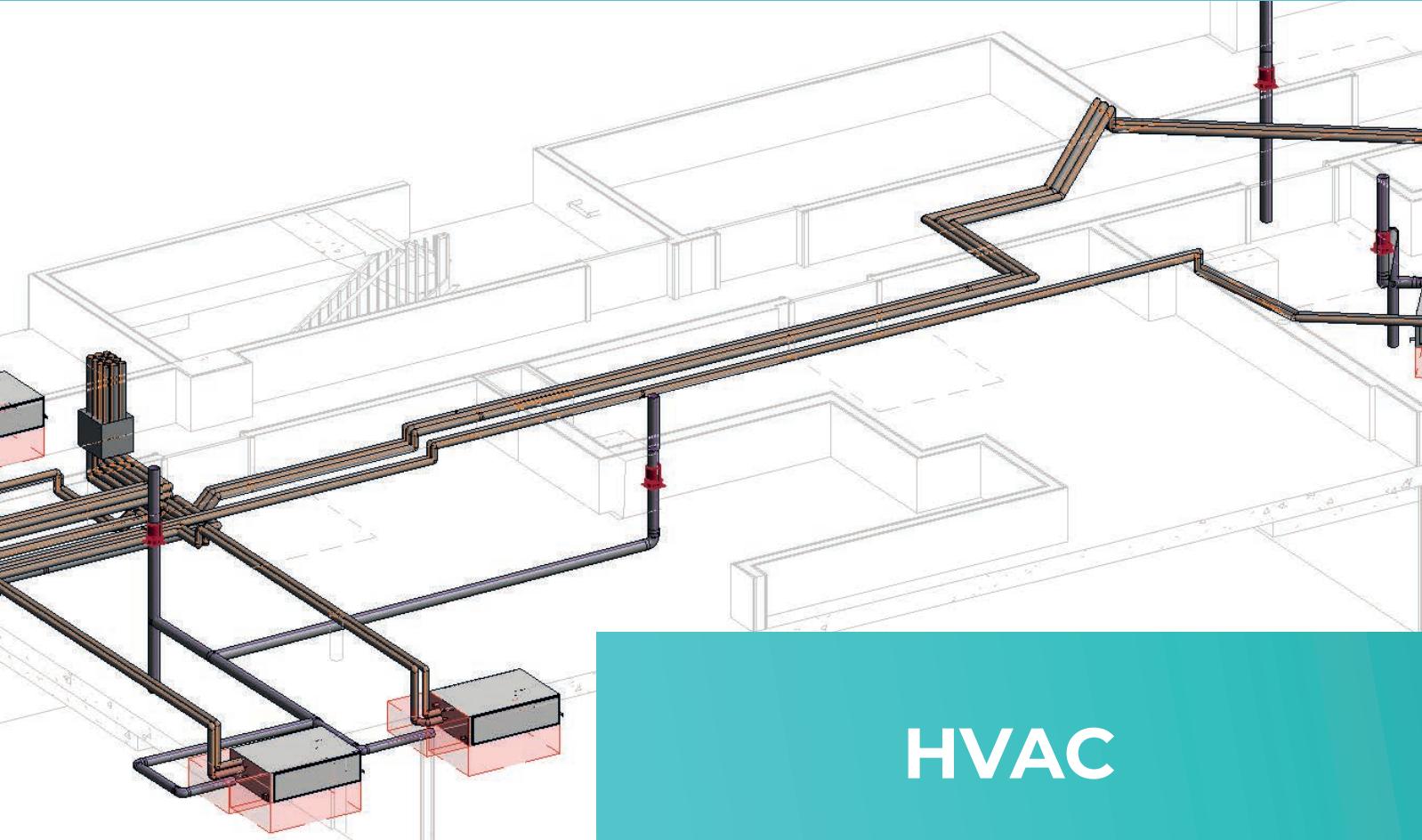
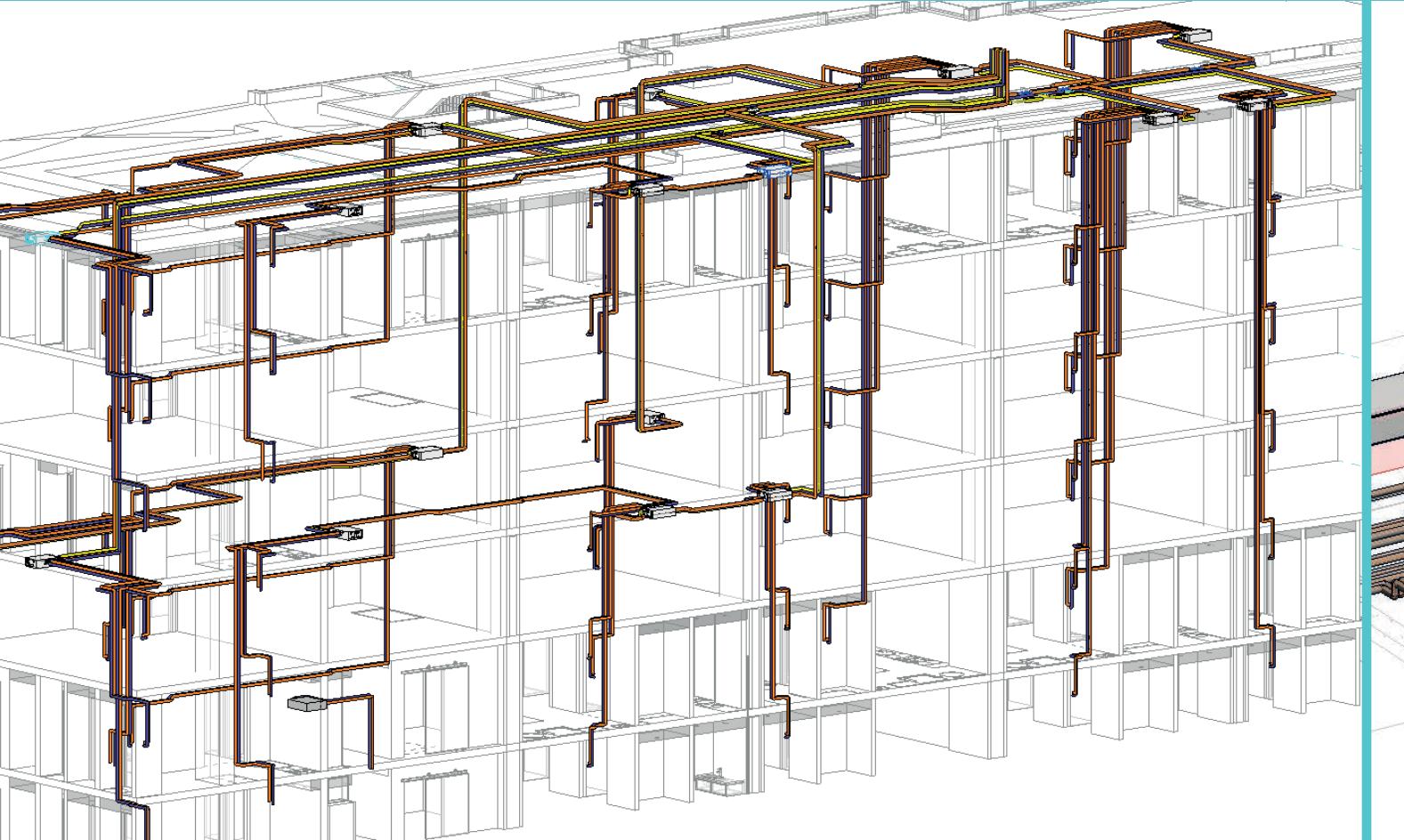
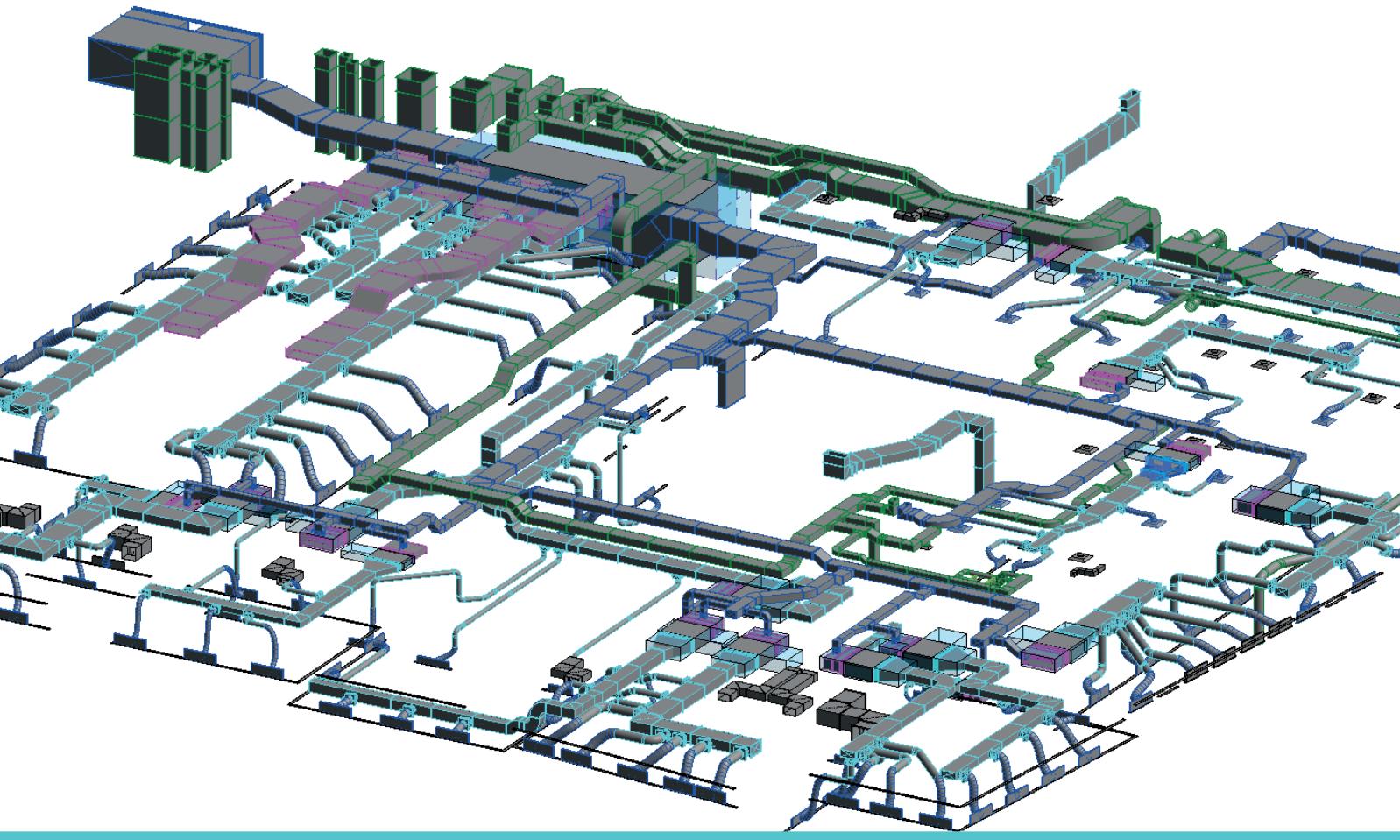
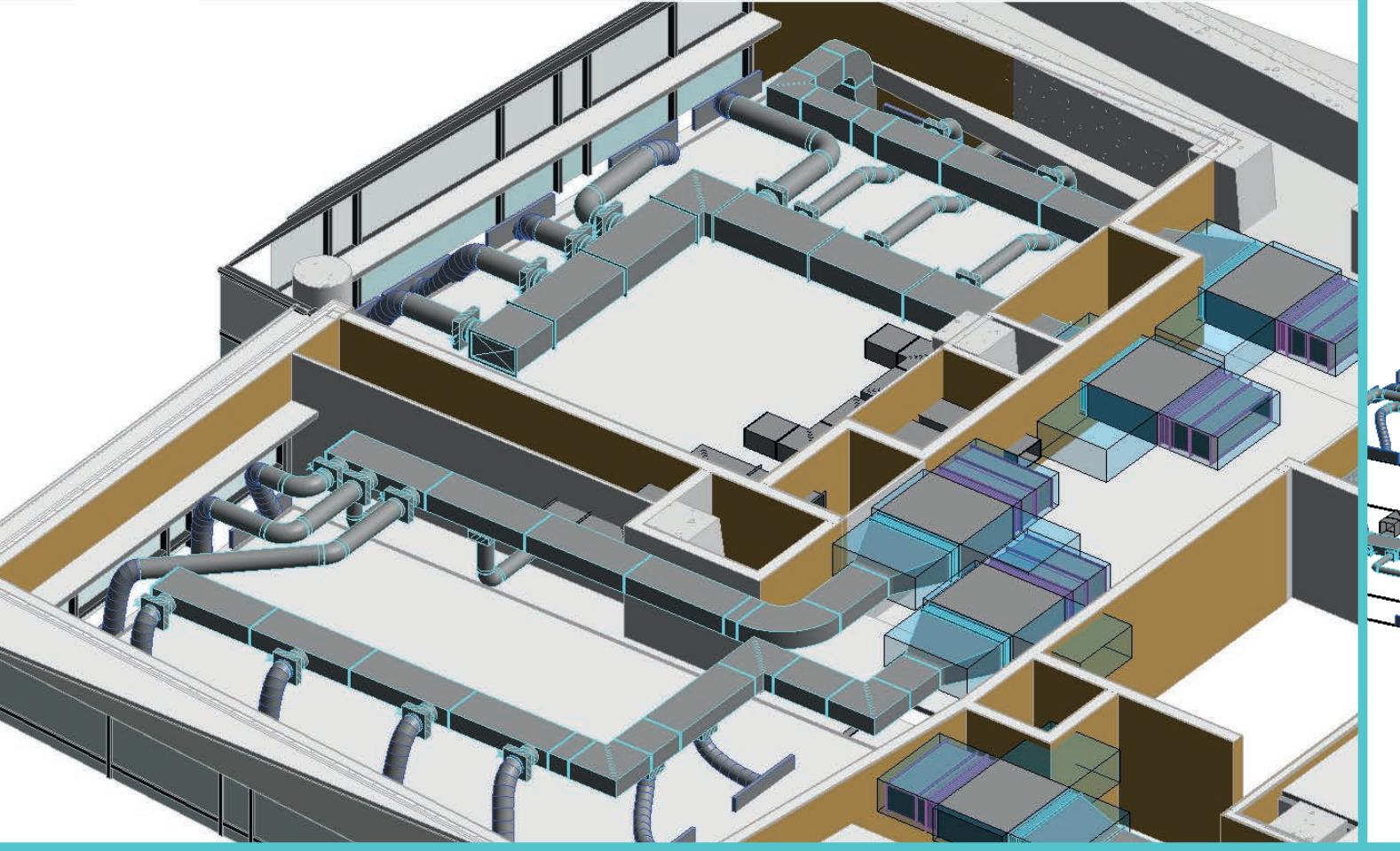
MODELING PROCESS

We can offer modeling primary coordination of MEP systems “from scratch” by design drawings for such disciplines: HVAC, Plumbing, Electrical, Fire Protection.

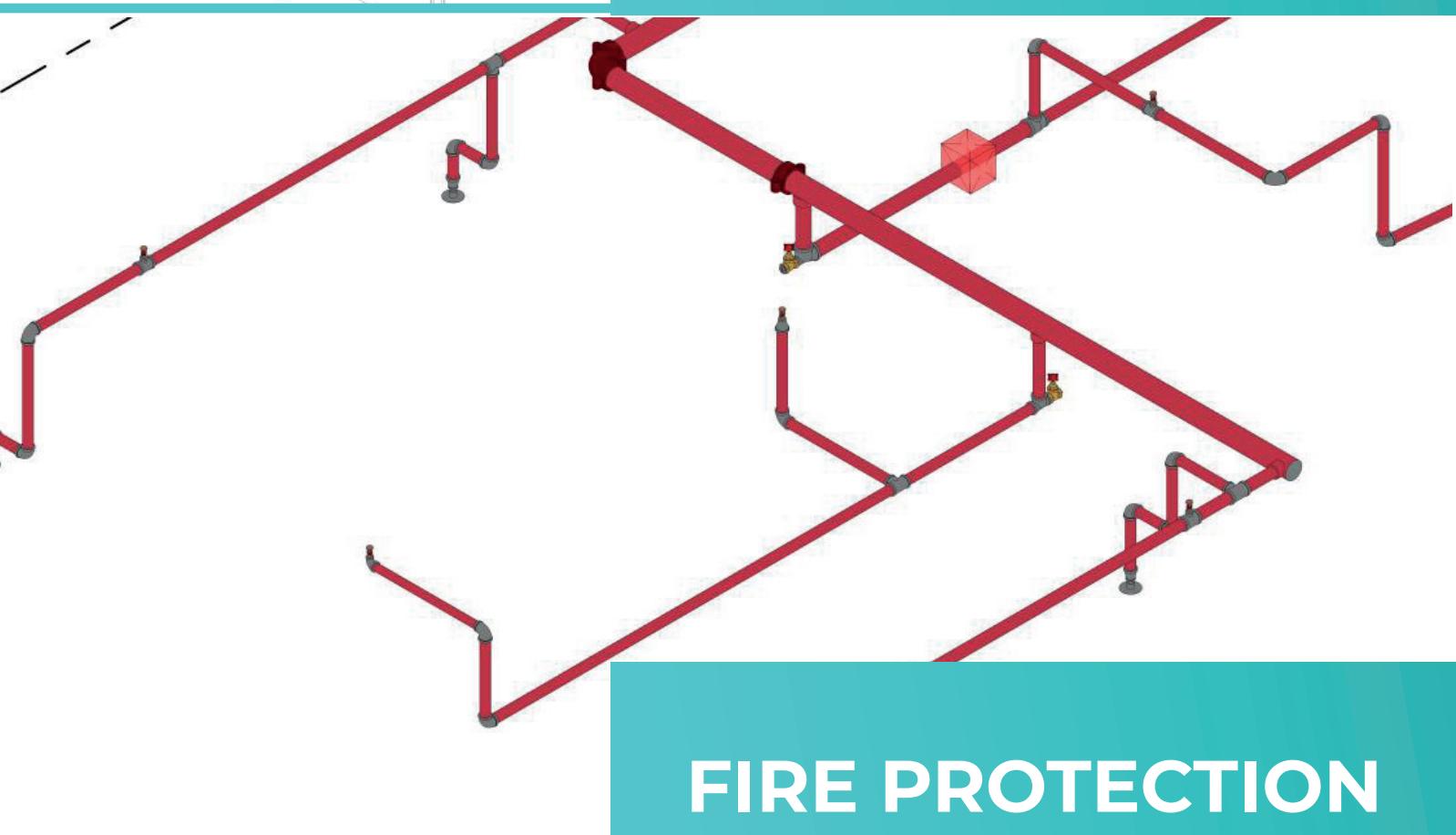
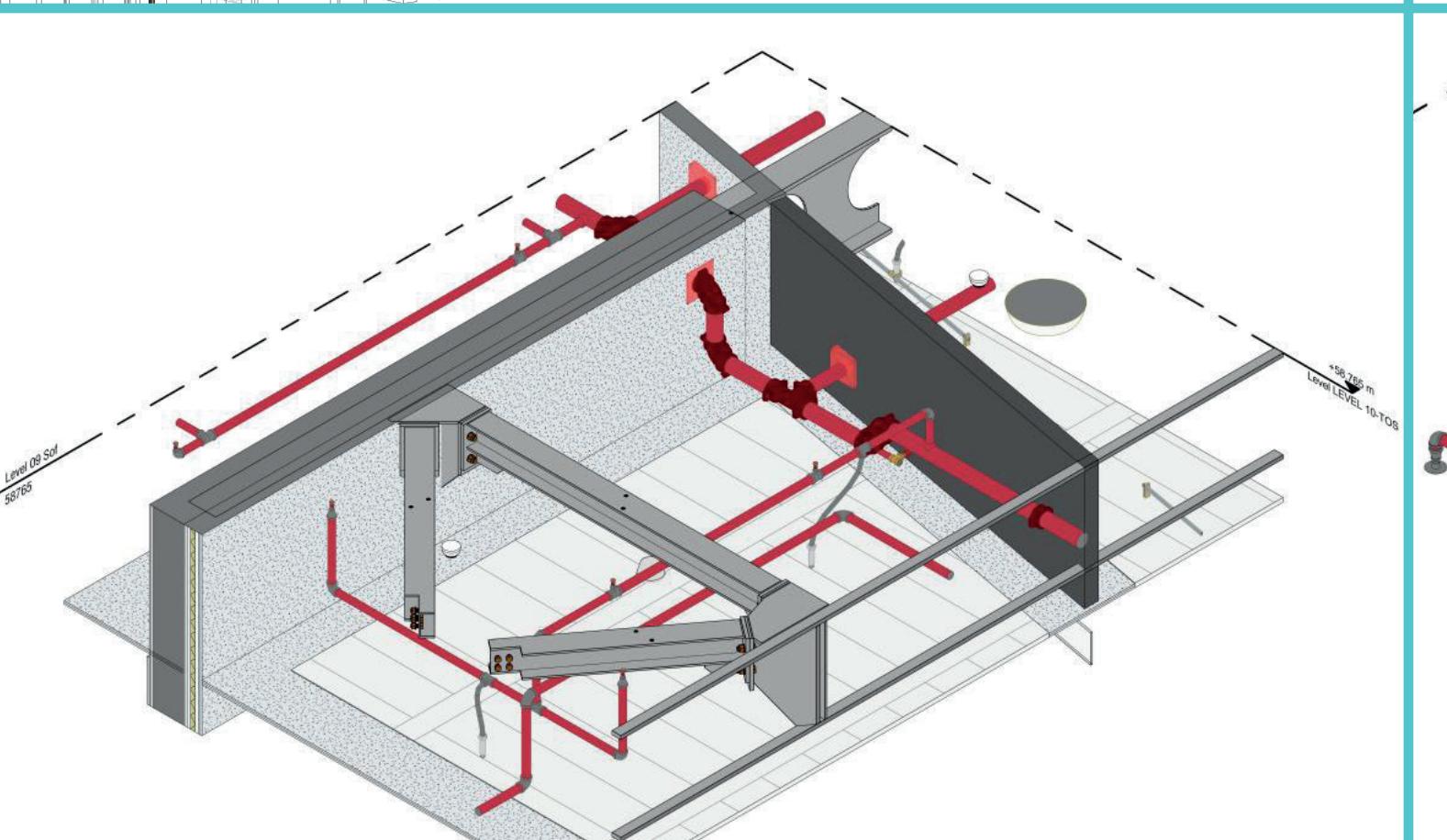


FABRICATION

Using CAMduct or SysQue software our team are capable to implement Fabrication of MEP systems according to technical information provided by customer. HVAC and Fire Protection are our main directions in this field.



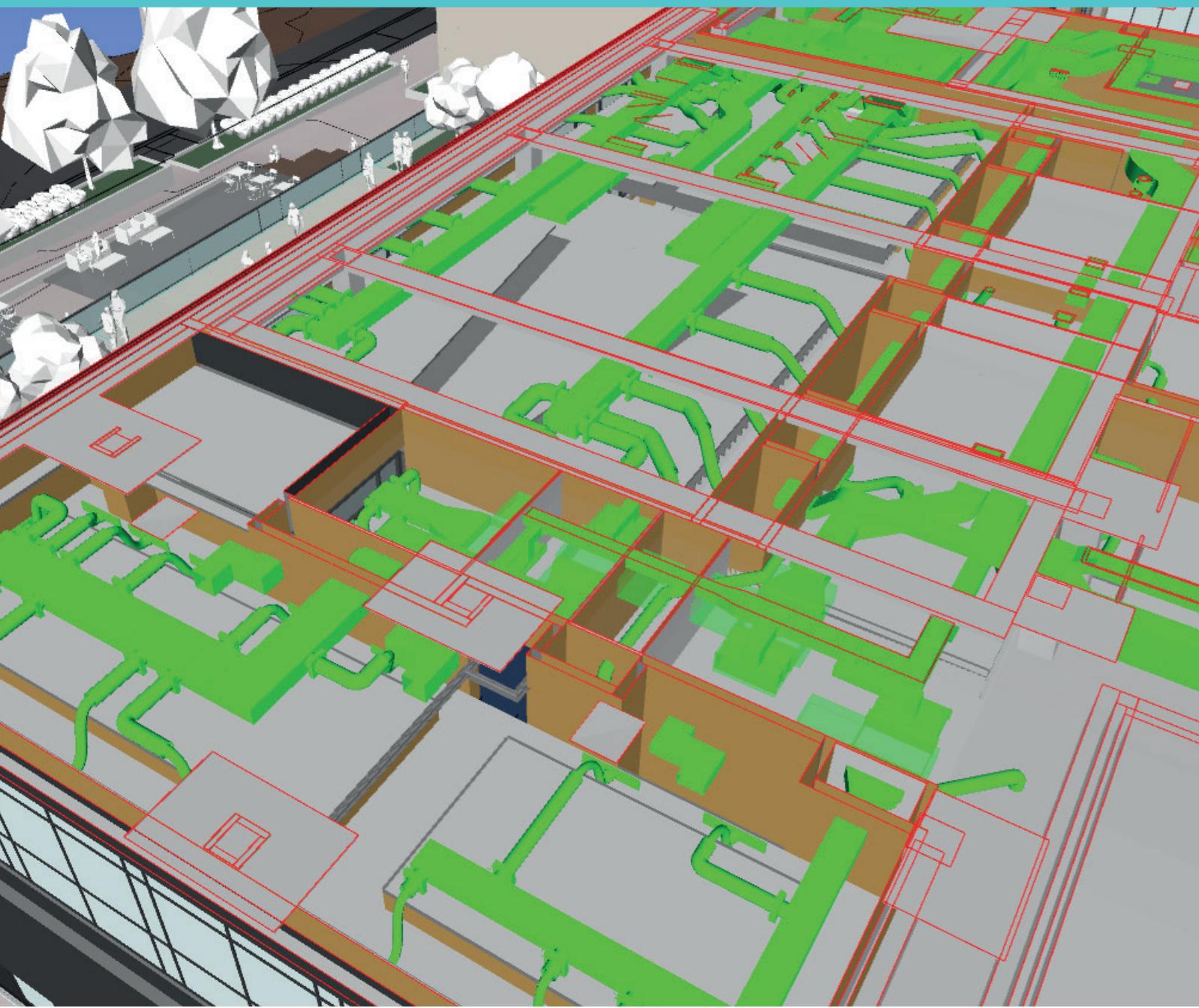
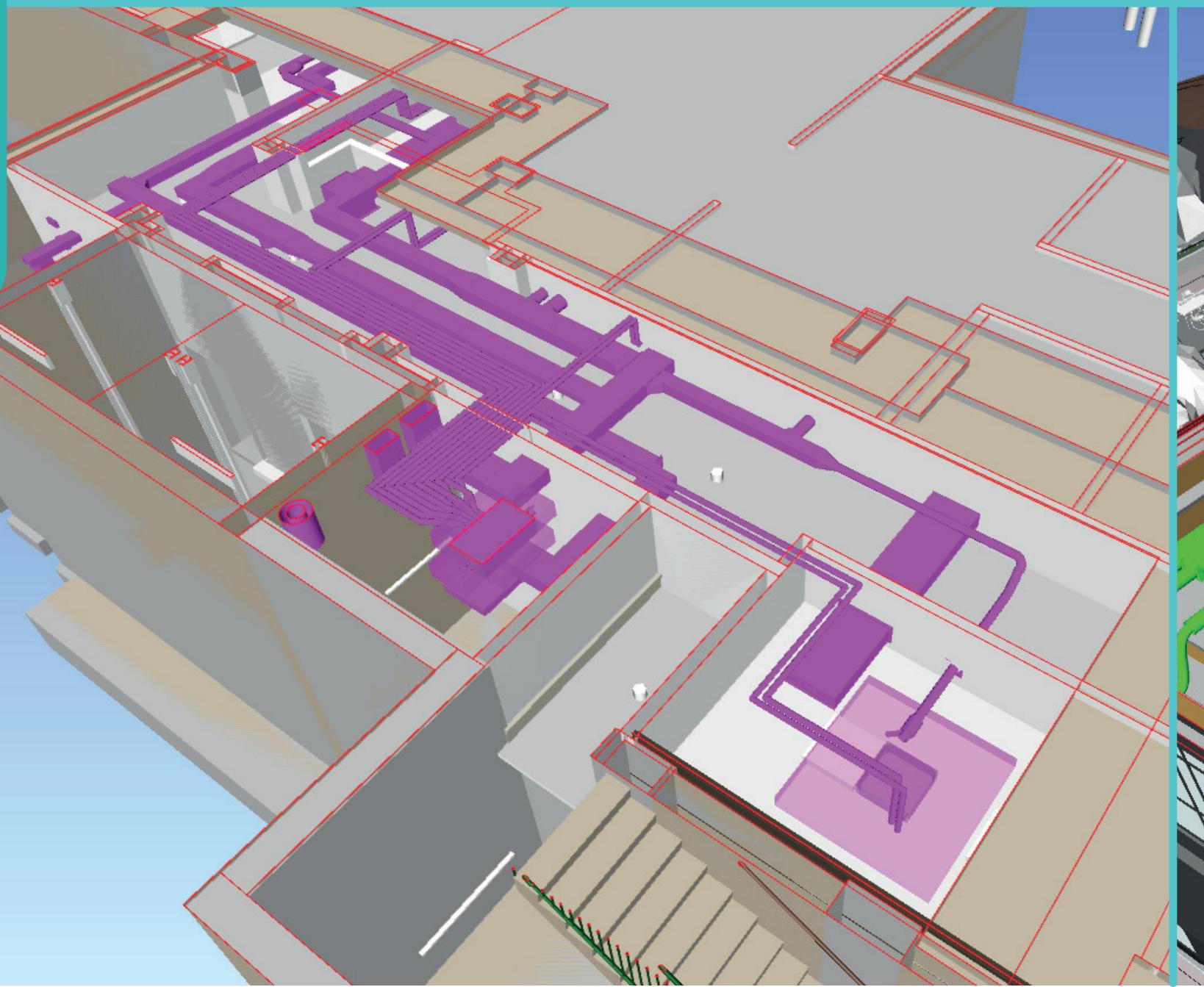
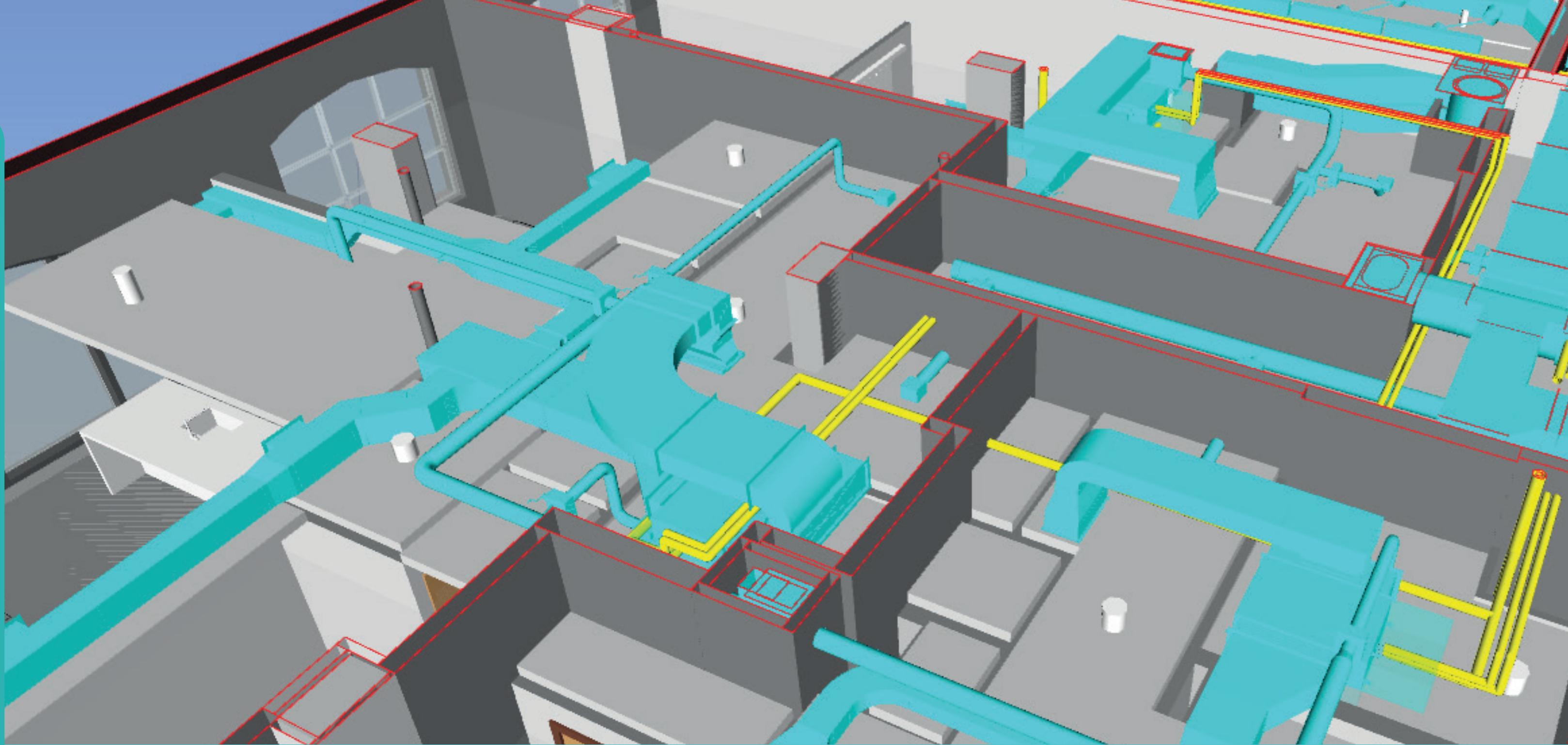
HVAC



FIRE PROTECTION

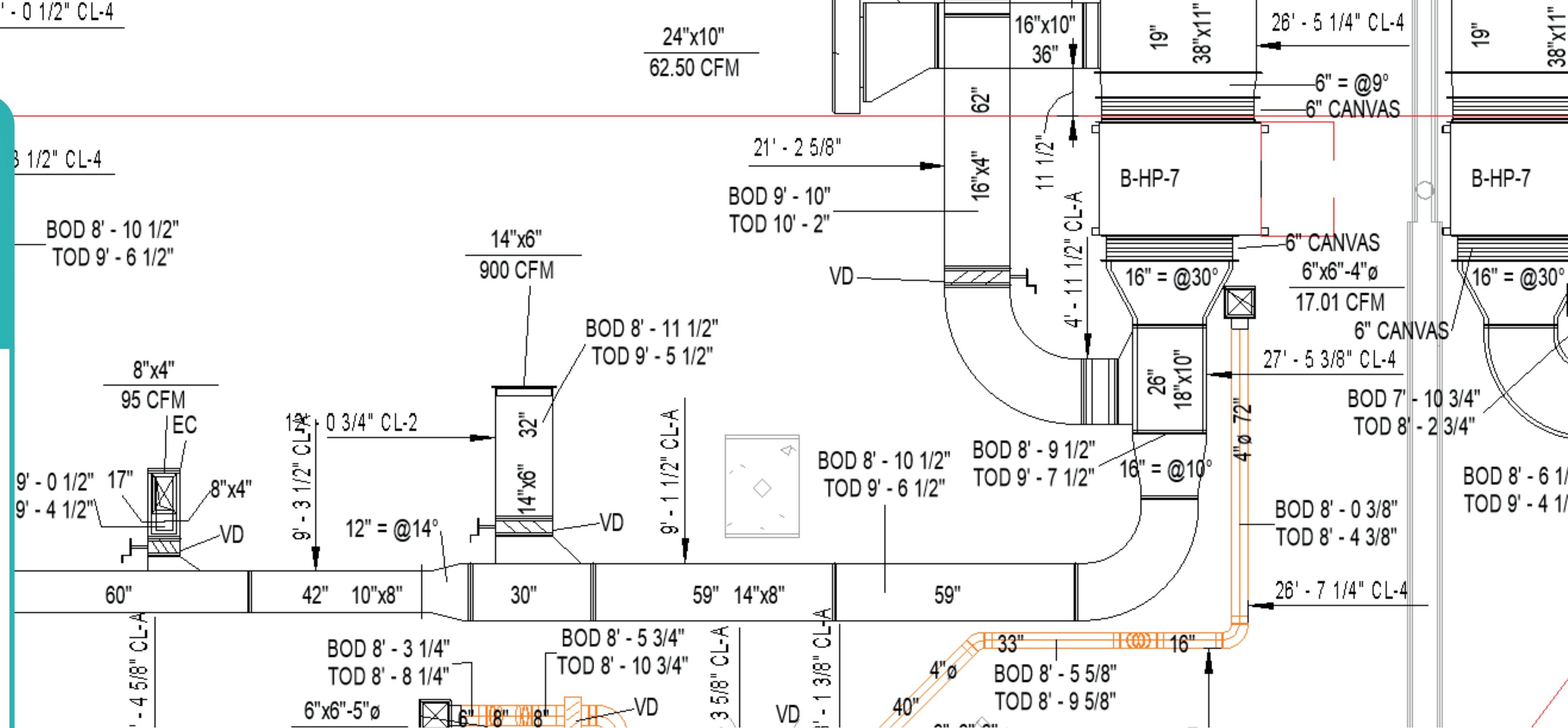
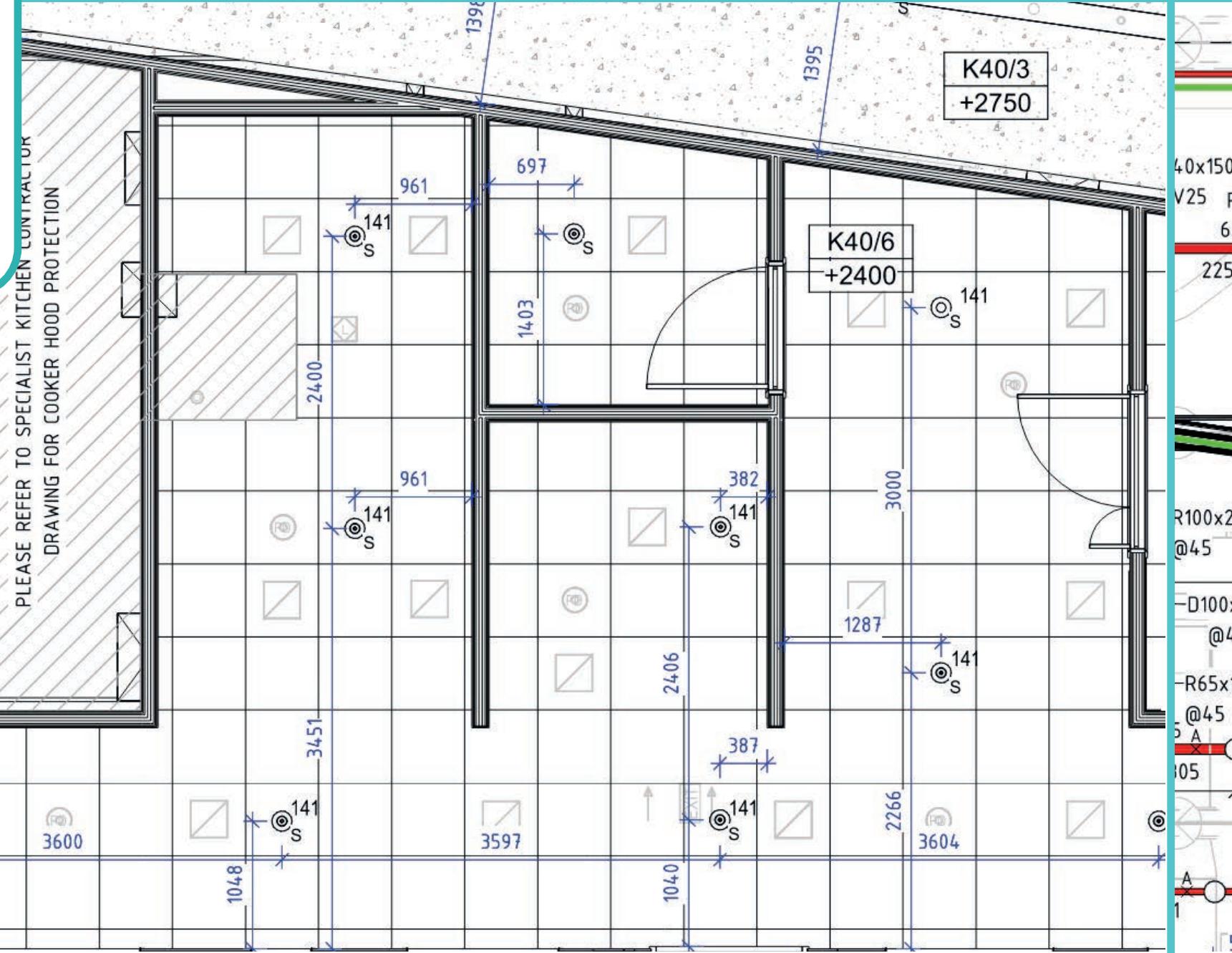
COORDINATION PROCESS

At this stage we have two main objectives: find and solve all interdisciplinary clashes which occur, optimize MEP systems routing to achieve a balance between system efficiency and its moderate cost.



DRAWINGS CREATION

During the drawings creation process we always try to represent all required information about MEP components and optimize them to make drawings not only informative but convenient in usage.



SPOOLS CREATION

The final stage of our work is Spools creation. We provide to our clients spool maps and worksheets, that consist of all demanded information for duct and pipe manufacturing and installation.



The screenshot displays a software interface for ductwork modeling. At the top, there's a toolbar with various icons for file operations like 'File', 'Utilities', 'View', 'Window', 'Add-Ins', and 'Help'. Below the toolbar is a menu bar with sections for 'File', 'Utilities', 'View', 'Window', 'Add-Ins', 'Ductwork', 'Ductwork Config', 'Fabrication', 'Fabrication Ductwork', 'Modify', and 'Fabrication Job'. A sub-menu for 'Fabrication' is open, showing options like 'Launch WSM', 'Worksharing Monitor', 'COINS Section Box', 'Convert RFA to FormIt', 'Import and Export', 'Fabrication Reports', 'Fabrication Exports', 'Import Autodesk Fabrication Job File', and 'Export Autodesk Fabrication Job File'. The main workspace shows a 3D model of a duct system with a blue wireframe. A callout points from the text above to a specific part of the duct model. To the right is a detailed 'Spool Map' for 'Section 10'. The map shows a vertical stack of duct components with callouts numbered 1 through 7. Callout 1 points to a 'Cap' at the top. Callout 2 points to a 'Straight' section. Callout 3 points to a 'Radius Bend'. Callout 4 points to a 'Transition' section. Callout 5 points to a 'Straight' section. Callout 6 points to a 'Radius Bend'. Callout 7 points to a 'Straight' section. Below the spool map is a table of components with their details:

Connector ...	Item No	Name	Size	Qty
	127	Cap	16.000 x 8.0...	1
S&D	128	Straight	16.000 x 8.0...	59.000 (inch)
S&D	129	Straight	16.000 x 8.0...	59.000 (inch)
S&D	130	Straight	16.000 x 8.0...	59.000 (inch)
S&D	131	Straight	16.000 x 8.0...	59.000 (inch)
S&D	132	Straight	16.000 x 8.0...	59.000 (inch)
S&D	133	Radius Bend	16.000 x 8.0...	1
S&D	134	Straight	16.000 x 8.0...	57.000 (inch)
S&D	135	Straight	16.000 x 8.0...	59.000 (inch)
S&D	136	Straight	16.000 x 8.0...	59.000 (inch)
S&D	137	Straight	16.000 x 8.0...	46.000 (inch)
TDC	138	Transition	22.000 x 8.0...	1
TDC	139	Straight	22.000 x 8.0...	56.250 (inch)
TDC	140	Straight	22.000 x 8.0...	56.250 (inch)
TDC	141	Straight	22.000 x 8.0...	74.250 (inch)
TDC	142	Radius Bend	22.000 x 8.0...	1
TDC	143	Straight	22.000 x 8.0...	56.250 (inch)

Below the table are four detailed views of spool components labeled 1, 2, 3, and 4, each with its dimensions and material specifications. The views show a central vertical pipe with two side flanges (C1=S&D and C2=S&D) and a horizontal connection (A). The material is Galvanized x 26, and the specification is -2 WG. The views also show the number of connections (Qty: 1), connection types (Con #1: S&D, Con #2: S&D), and seam types (Seams S1 PITTS-S, Con #3: Con #4). There are also 'Liner' and 'Custom Data #1' fields.

QUALITY

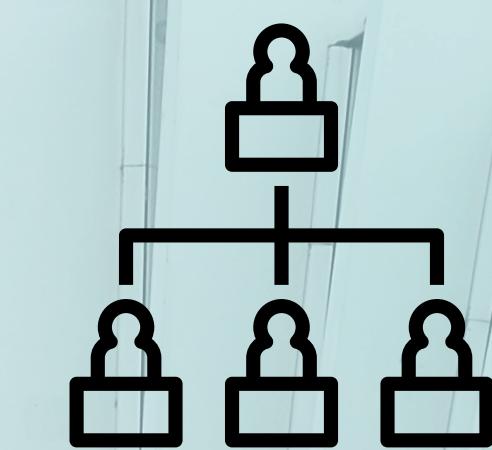


REVIEWING

- Verification using BIMprove Add-In or check-list
- Checking the 3D model against engineering logic
- Reviewing drawings by customer requirements

DEVELOPMENT

- Continuous development of Add-In and Dynamo Scripts
- Development and constant updating of the template
- Developing parametric families
- Creating our own database



ORGANIZATION

- Unique project management technologies
- Individual approach in communication with the client
- Continuous analysis of the finished work

YOUR BUSINESS DESERVES OUR FIVE-STARS:



HIGHING QUALITY

Elevate your business with high-quality services



NON-STANDARD TASKS SOLUTIONS

Rely on us for creative solutions to unique and challenging tasks.



HELP IN WORK PROCESS ORGANIZATION

Benefit from our expertise in streamlining the work process for optimal organization.



COMMUNICATION 24/7

Benefit from constant communication with a dedicated project manager available 24/7



QUICK PROJECT ADJUSTMENT

Enjoy quick and seamless adjustments based on feedback.

CONTACTS



Vitaliy Vynogradov
Chief Executive Officer

+380668901348

vitaliy@bim-prove.com

BIMprove LLC

@bimproveworld



**Director of MEP Coordination
and Fabrication department**

+380984860647

m.denis@bim-prove.com

@bimprove

bim-prove.com