



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



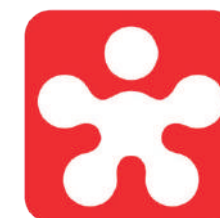
Graphisoft Archicad



Autodesk Navisworks



BIMcollab



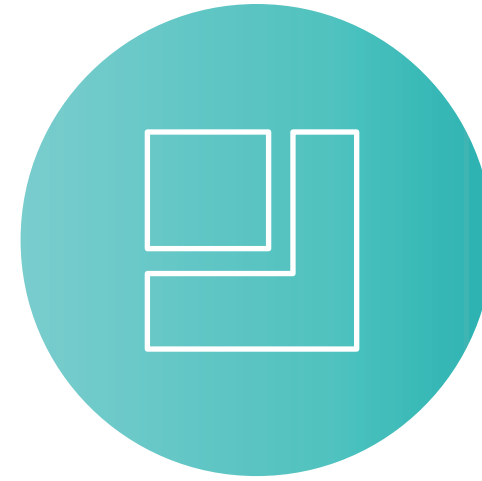
Revizto

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



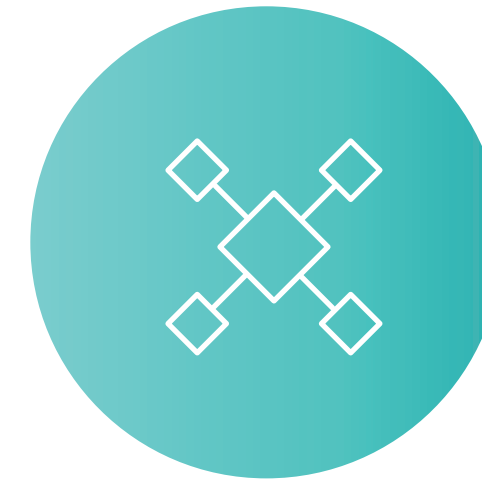
**MEP FAMILIES
CREATION**



**MEP
MODELING**



**MEP
FABRICATION**



COORDINATION

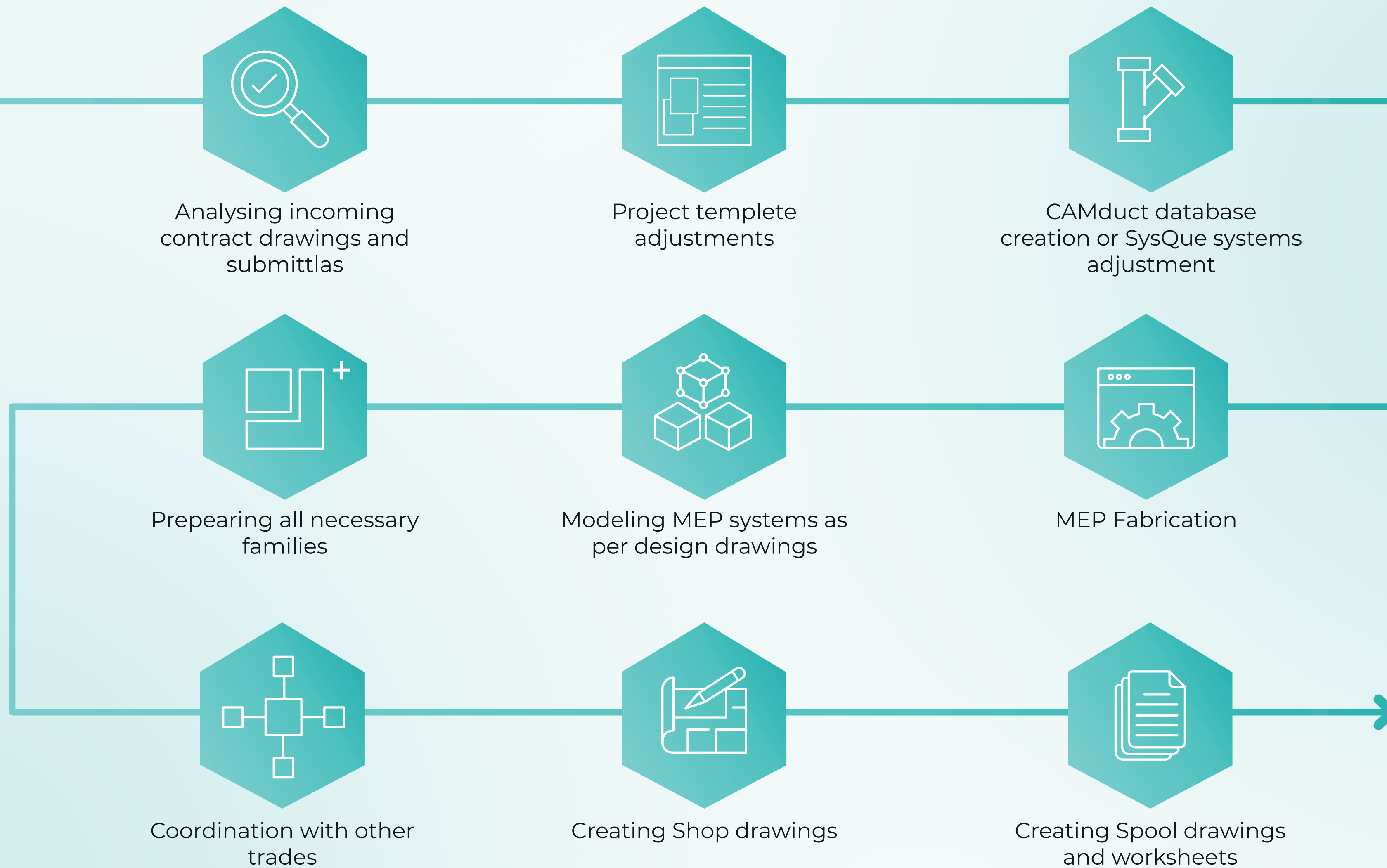


**DRAWINGS
CREATION**



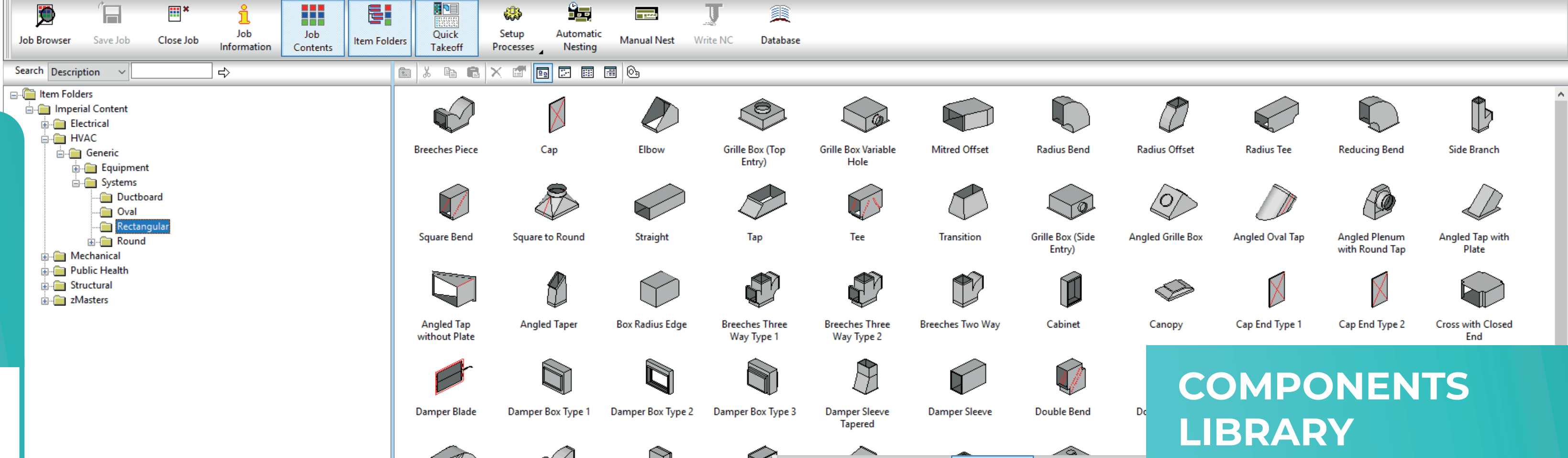
**TIME
SCHEDULING**

WORKFLOW

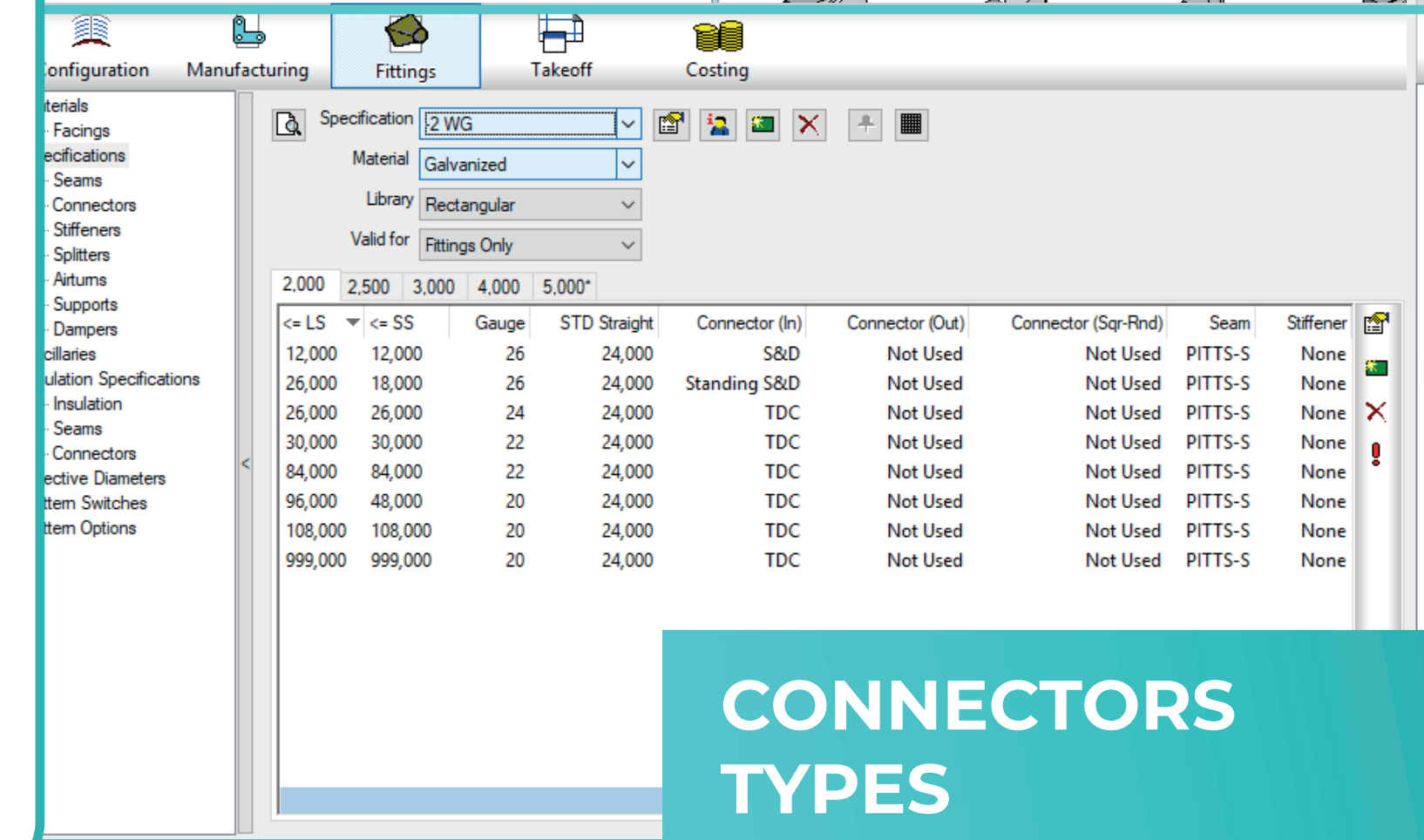


DATA BASE CREATION

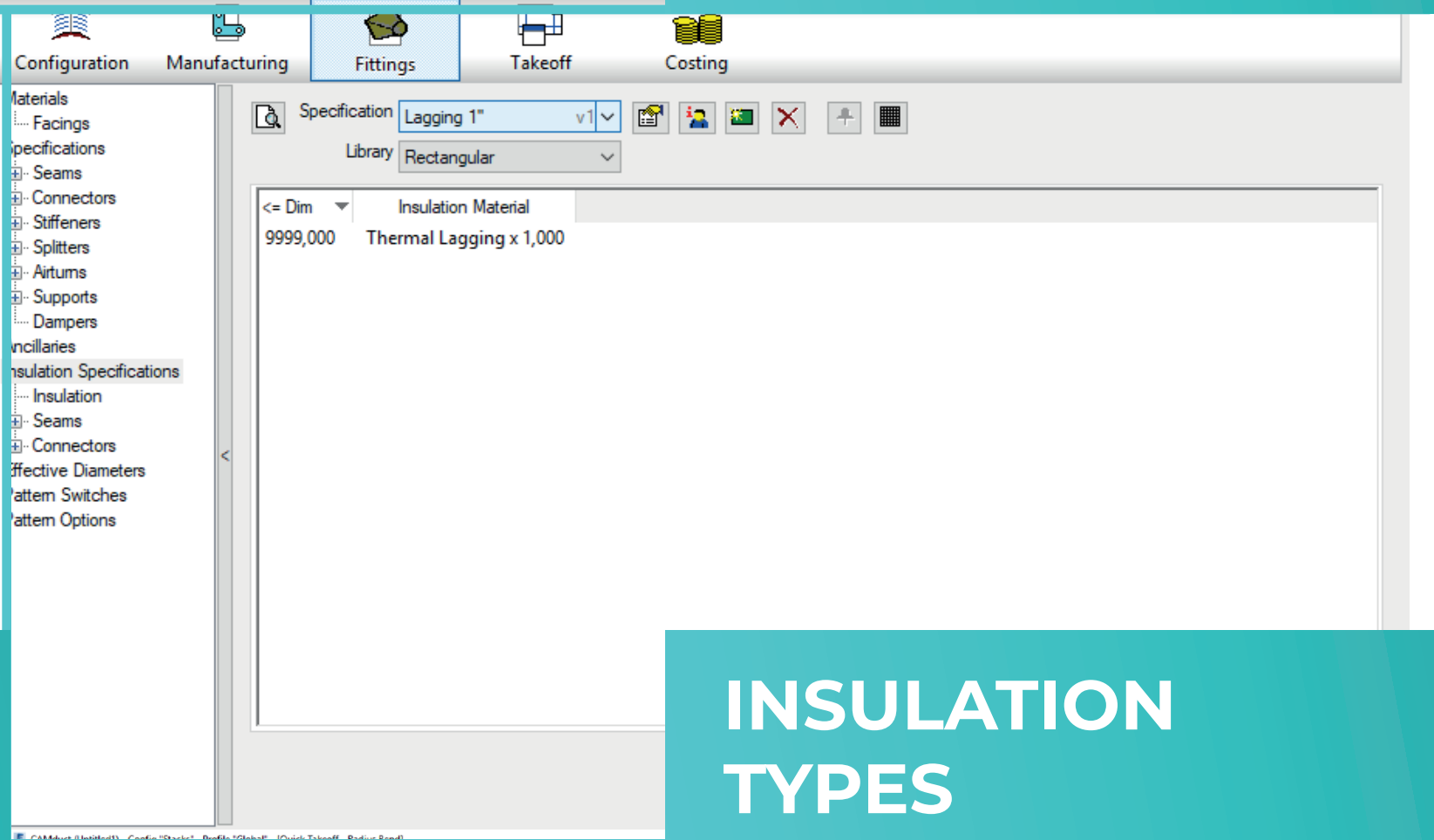
Every project starts with adjusting its own database. At this first stage we take into account all data provided by customers concerning materials, connections, insulation and services types of ducts and pipes to model HVAC components in the most authentic way.



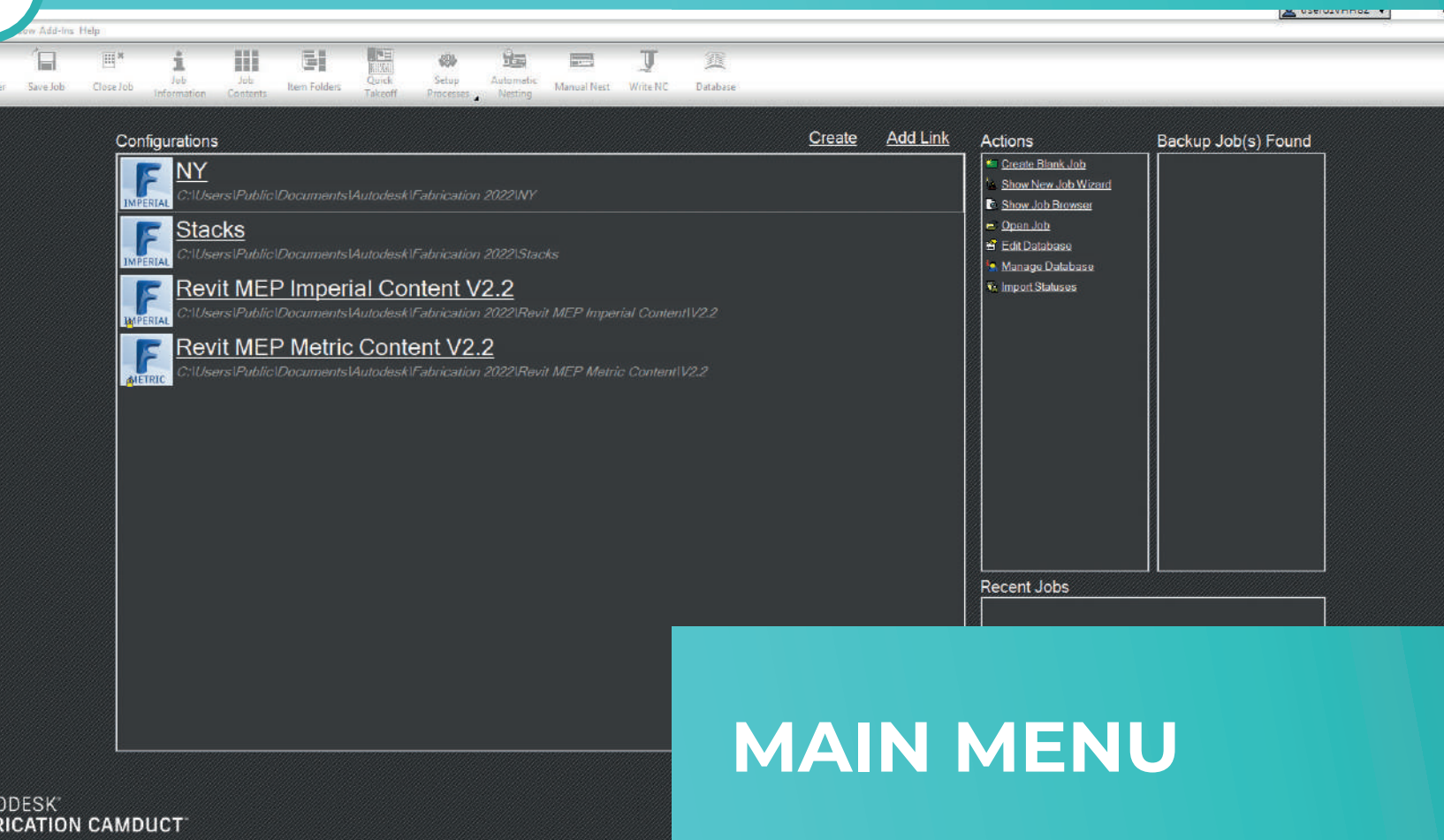
COMPONENTS LIBRARY



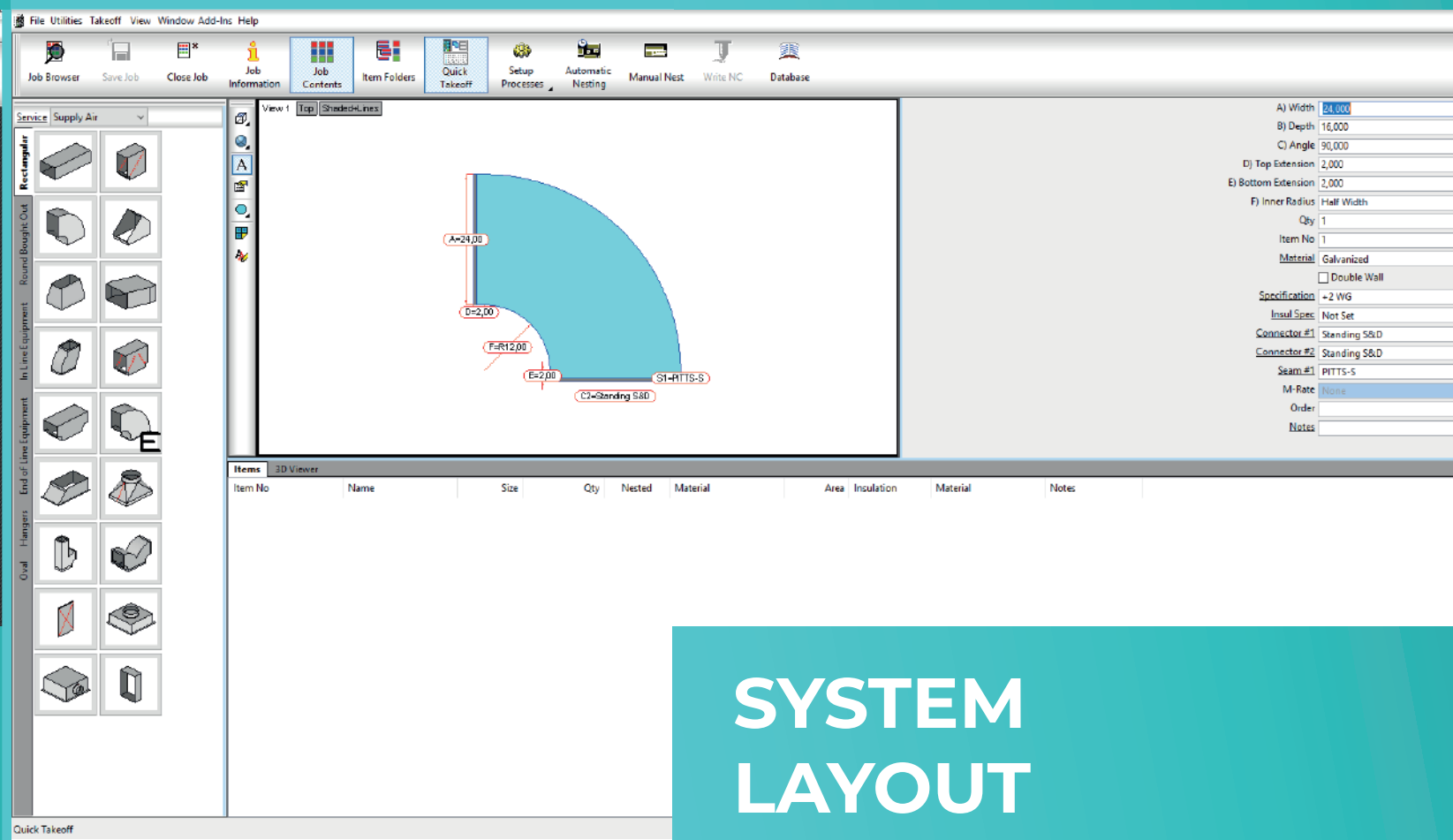
CONNECTORS TYPES



INSULATION TYPES



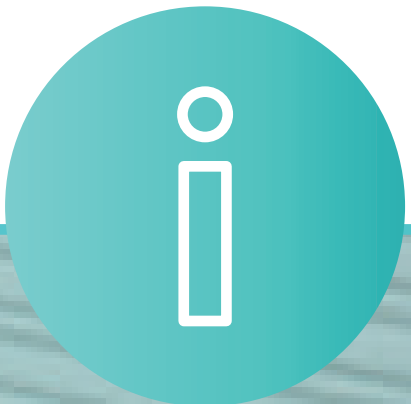
MAIN MENU



SYSTEM LAYOUT

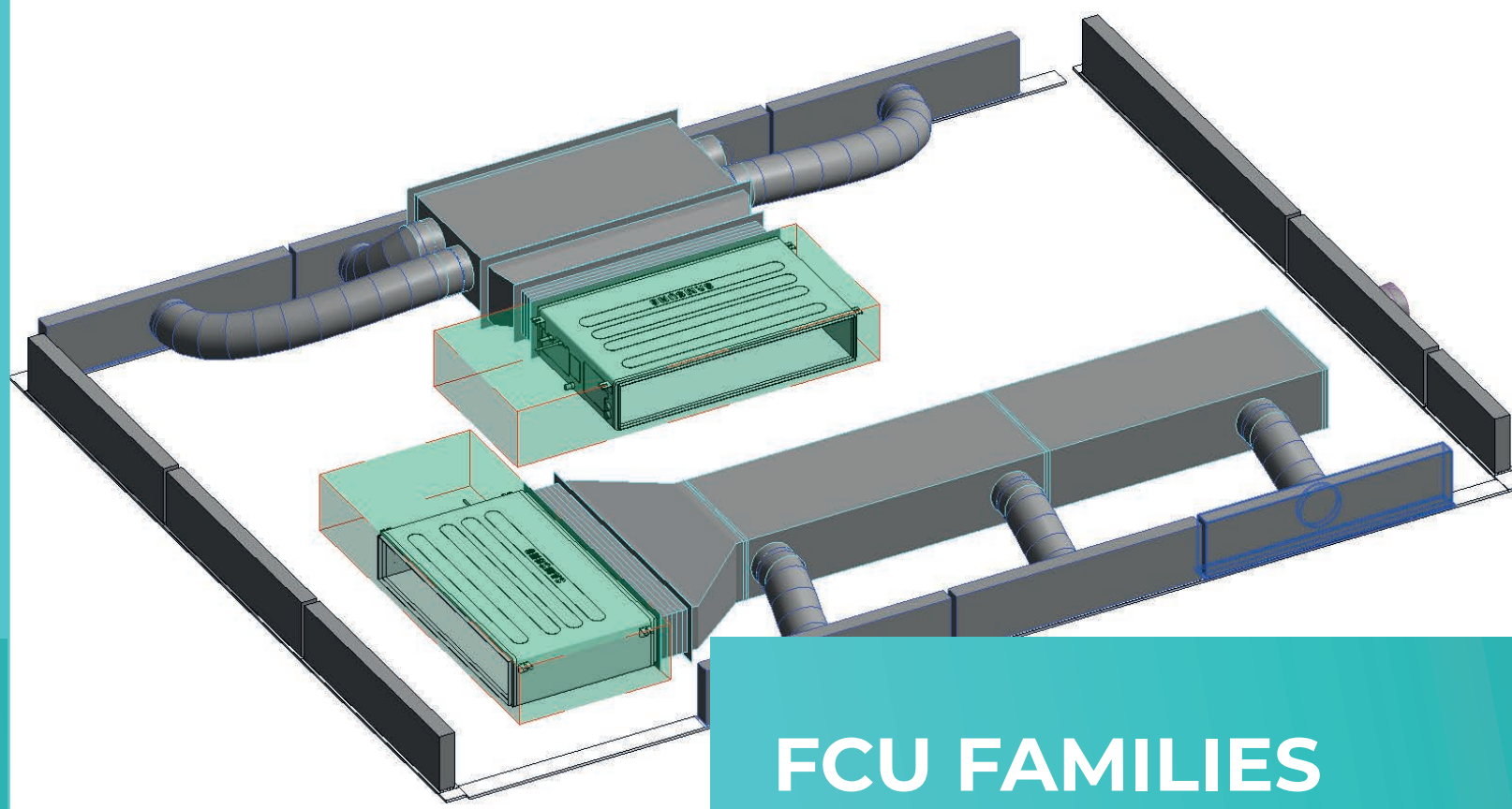
FAMILIES PREPARATION

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.

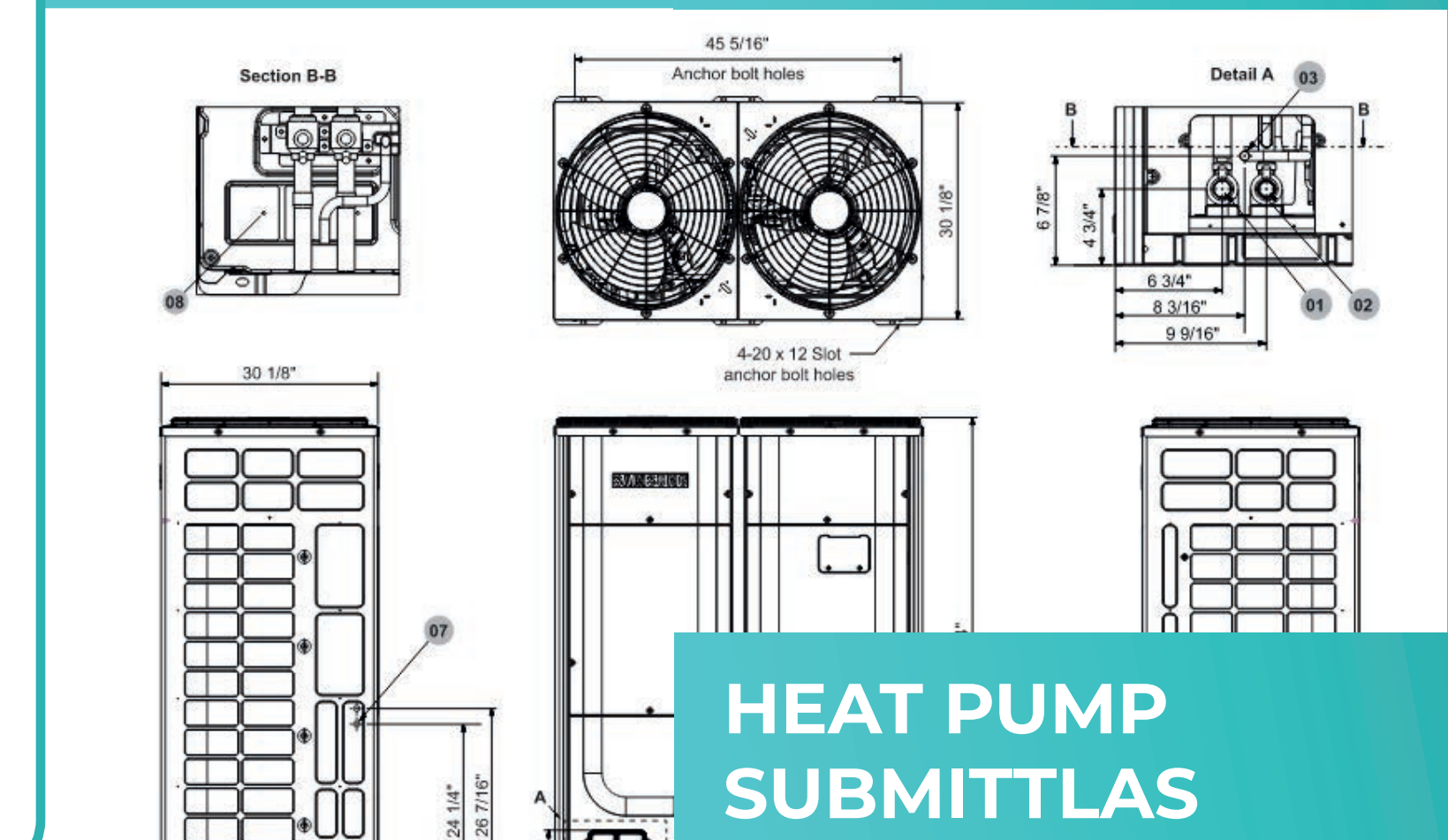


HEAT PUMP FAN COIL UNIT SCHEDULE - COMMON AREAS															
MARK	NOMINAL CAPACITY (TONS)	SERVICE	MANUFACTURER	MODEL	SUPPLY FAN			COOLING				HEAT PUMP HEATING CAPACITY			
					AIRFLOW (CFM)	MIN HP	ESP (IN)	TOTAL (MBH)	SENSIBLE (MBH)	EAT DB/AB (°F)	HT PUMP (MBH)	AMBIENT DB (°F)	EAT (°F)	LAT (°F)	MOF
FCU-A1	2	1st FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A2	2	1st FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A3	2	1st FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A4	2	2nd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A5	3	2nd FLR CDOR	FIRST COMPANY	37H0X-C	1,200	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135
FCU-A6	2	2nd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A7	2	3rd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A8	2	3rd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A9	3	3rd FLR CDOR	FIRST COMPANY	37H0X-C	1,200	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135
FCU-A10	2	4th FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A11	2	4th FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	63.6	90.8	135
FCU-A12	3	4th FLR CDOR	FIRST COMPANY	37H0X-C	1,200	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135
FCU-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
FCU-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
FCU-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
FCU-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
FCU-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
FCU-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
FCU-B1	2	1st FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-B2	2	1st FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-B3	2	2nd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-B4	2	2nd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-B5	2	3rd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-B6	2	3rd FLR CDOR	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-B7	2.5	4th FLR CDOR	FIRST COMPANY	32H0X-C	1,000	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135
FCU-B8	2.5	4th FLR CDOR	FIRST COMPANY	32H0X-C	1,000	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135
FCU-B9	2	GAME ROOM	FIRST COMPANY	31H0X-C	800	0.5	0.3	19.5	15.9	80/67	23.4	32.0	64.3	91.5	120
FCU-C1	2	OFFICES	AMERICAN STANDARD	TMM4A0B36	1,075	0.5	0.3	27.0	21.6	80/67	34.1	32.0	65.7	92.2	135

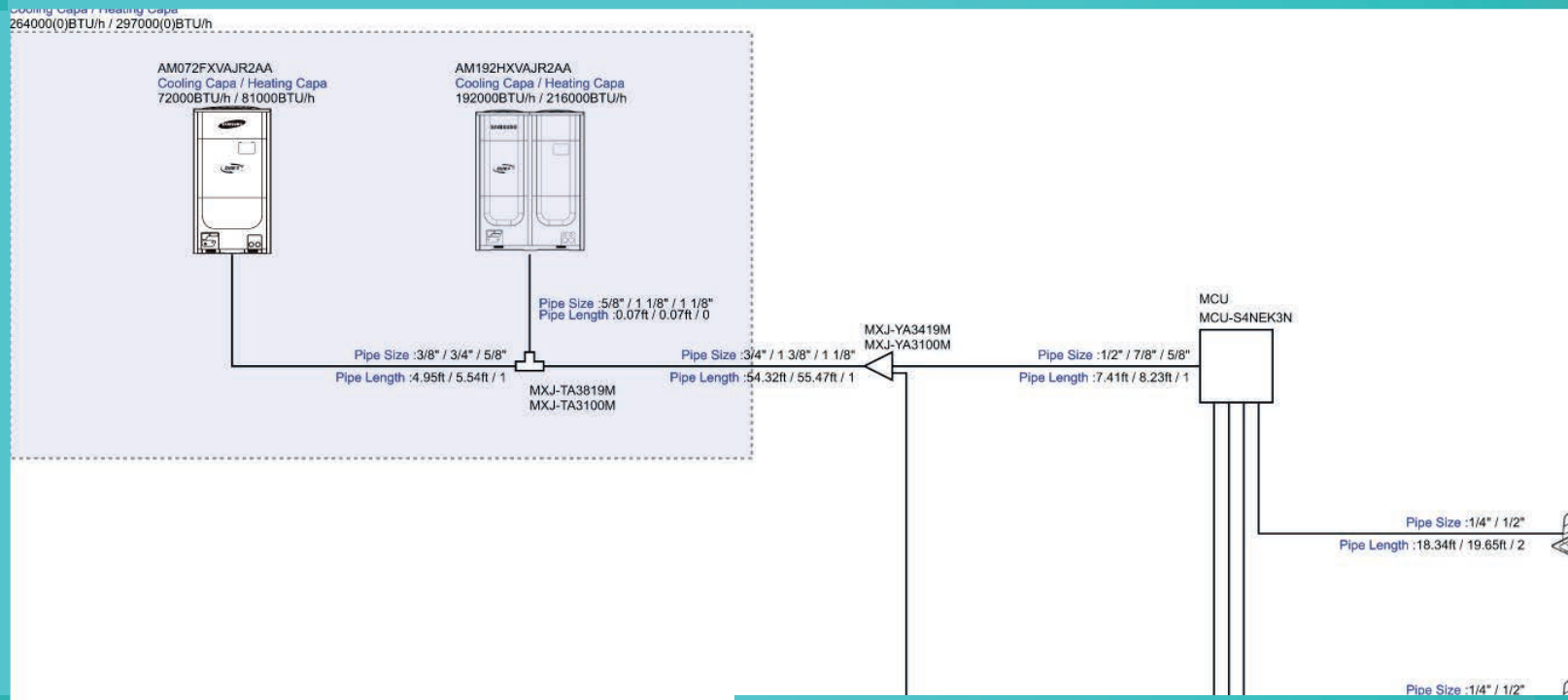
MECHANICAL SCHEDULE



FCU FAMILIES



HEAT PUMP SUBMITTALS



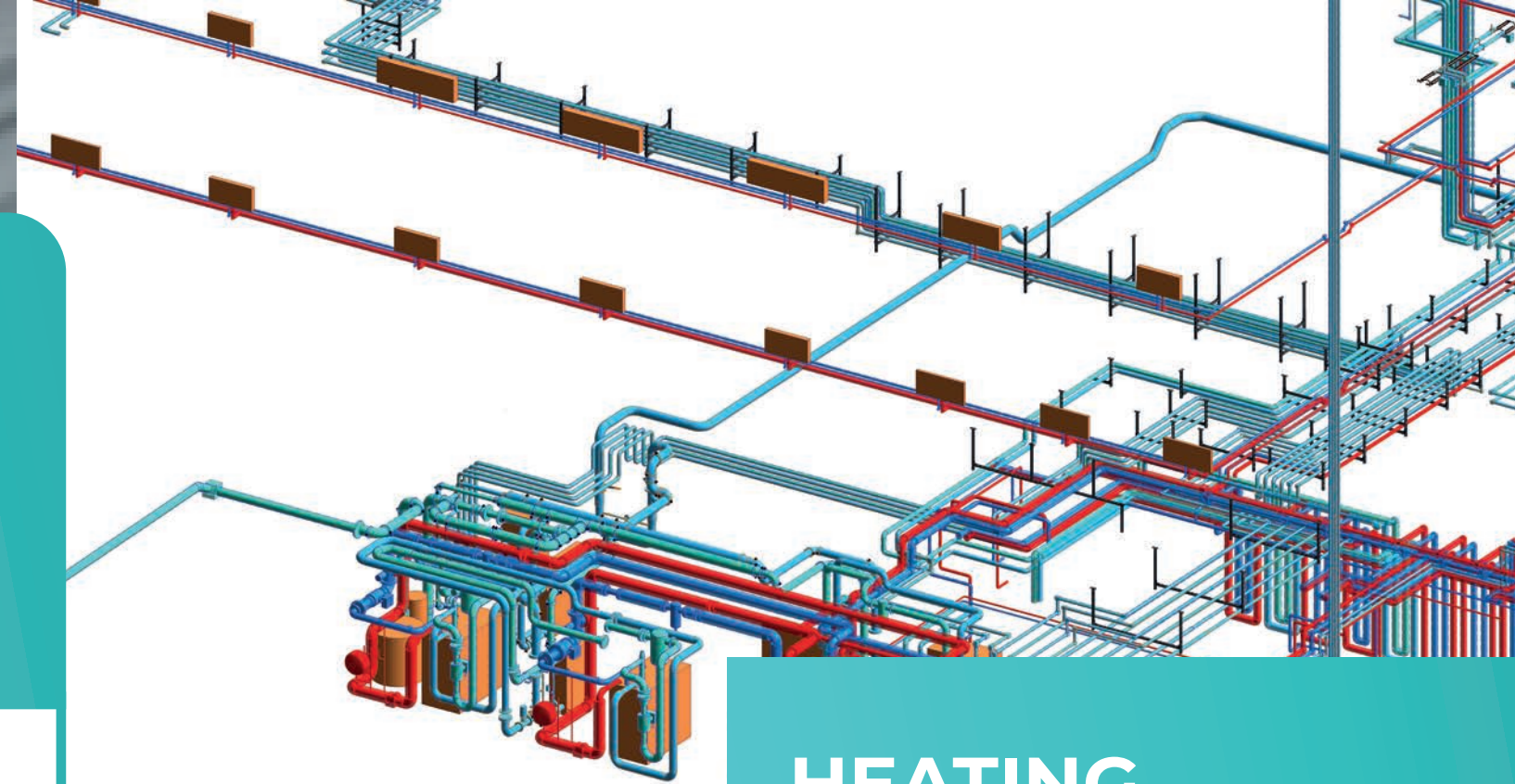
EQUIPMENT LAYOUT



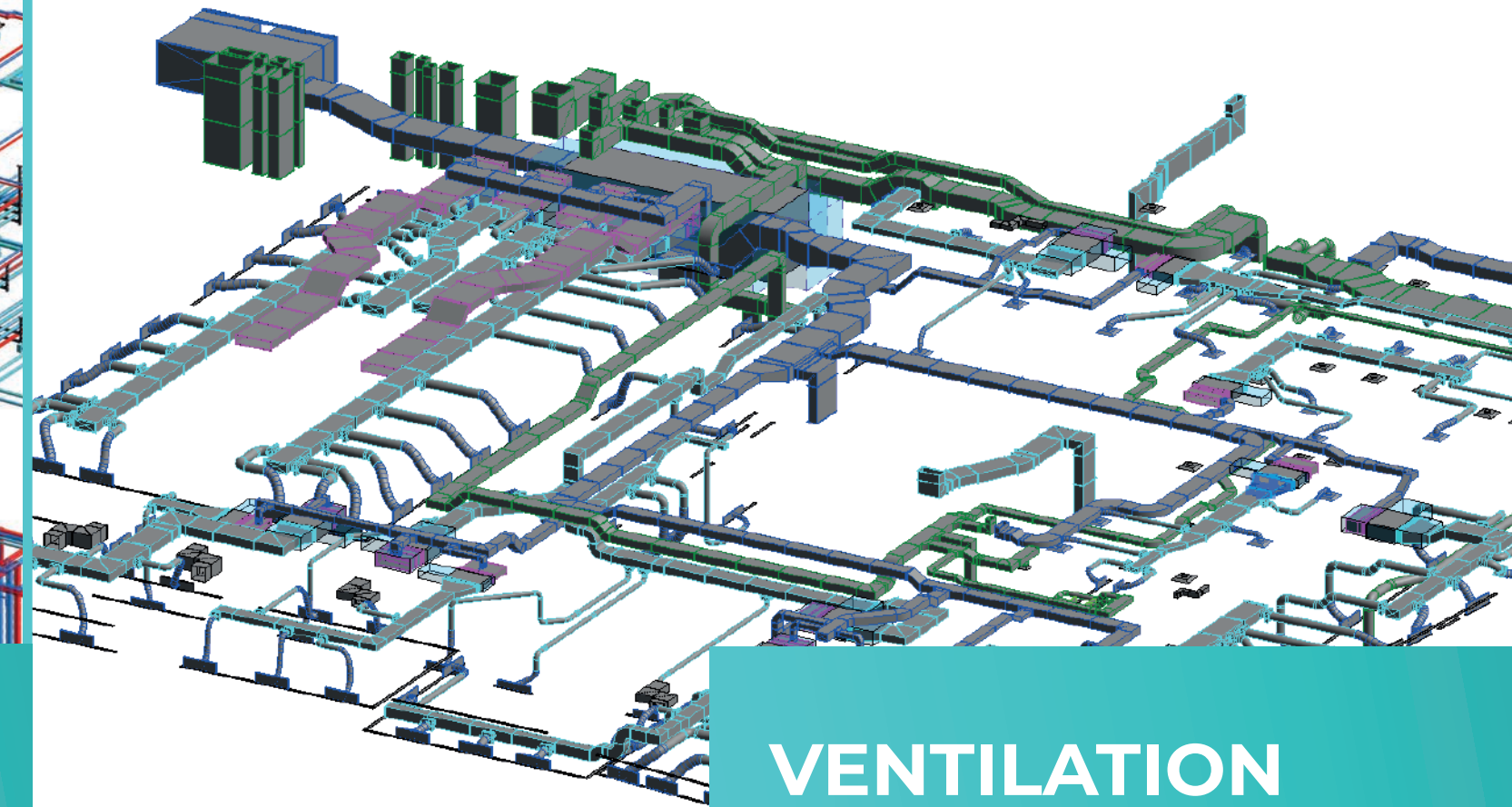
HEAT PUMP FAMILIES

MODELING PROCESS

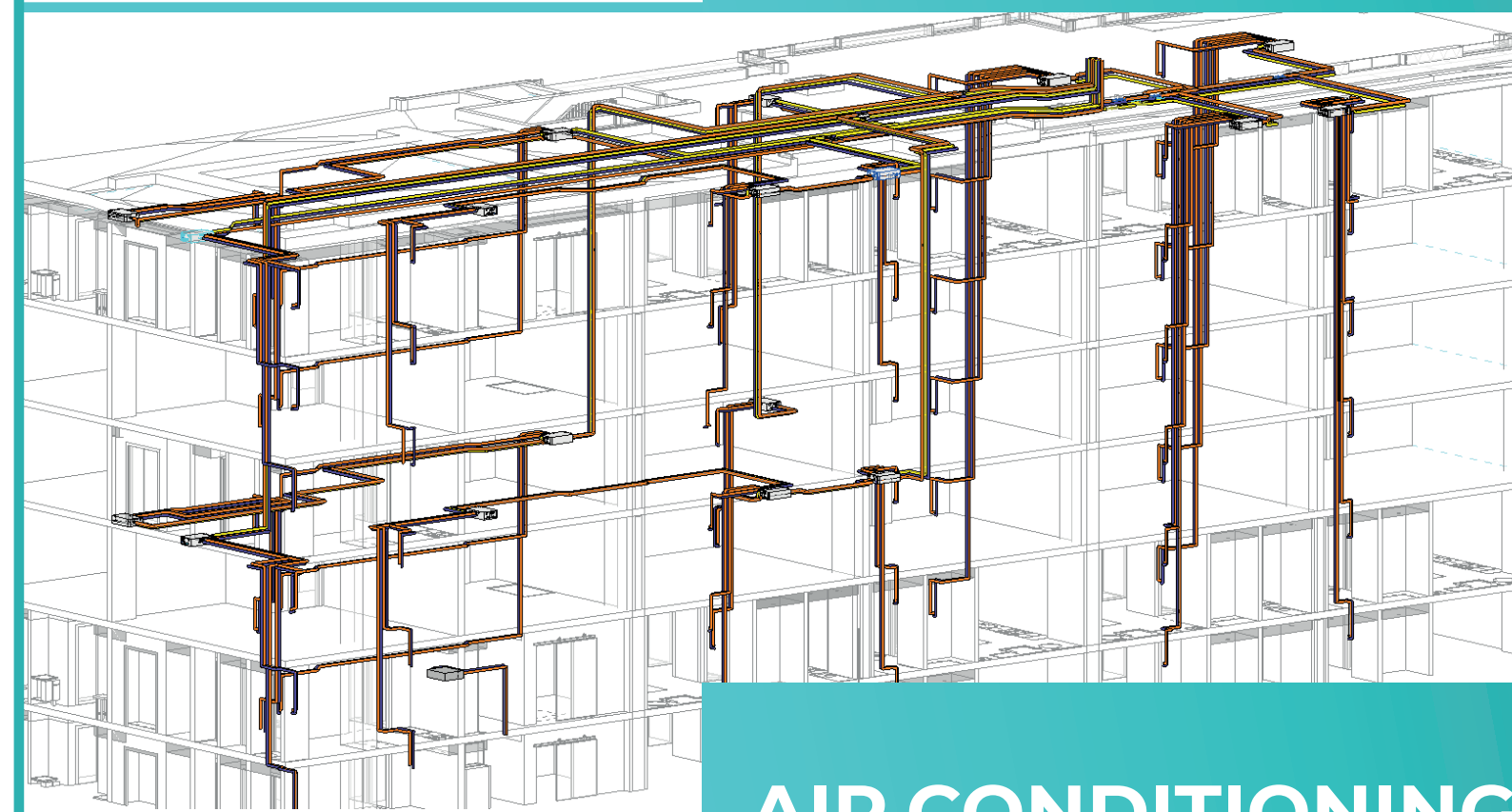
We can offer modeling primary coordination of MEP systems “from scratch” by design drawings for such disciplines: HVAC, Plumbing, Electrical, Fire Protection.



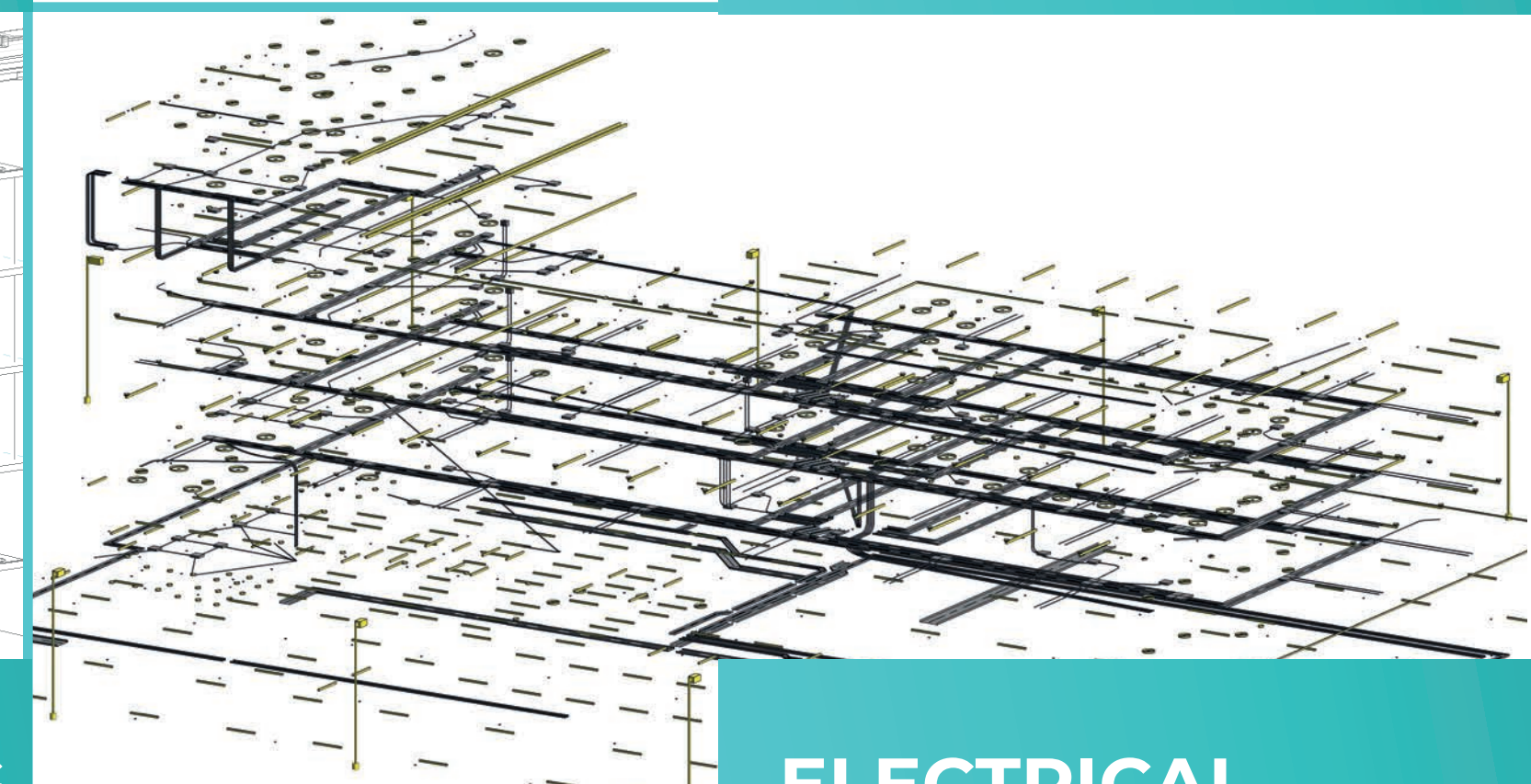
HEATING



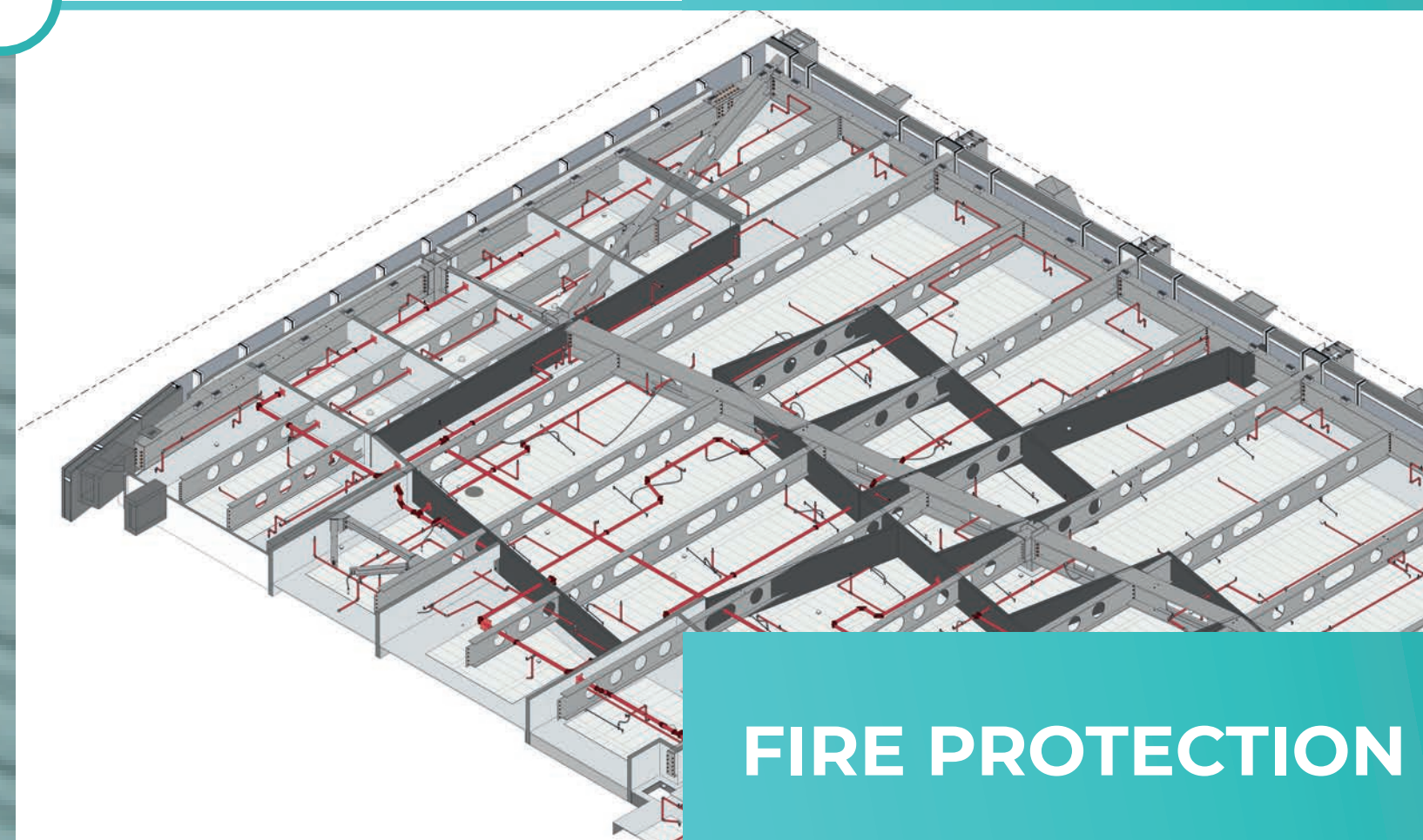
VENTILATION



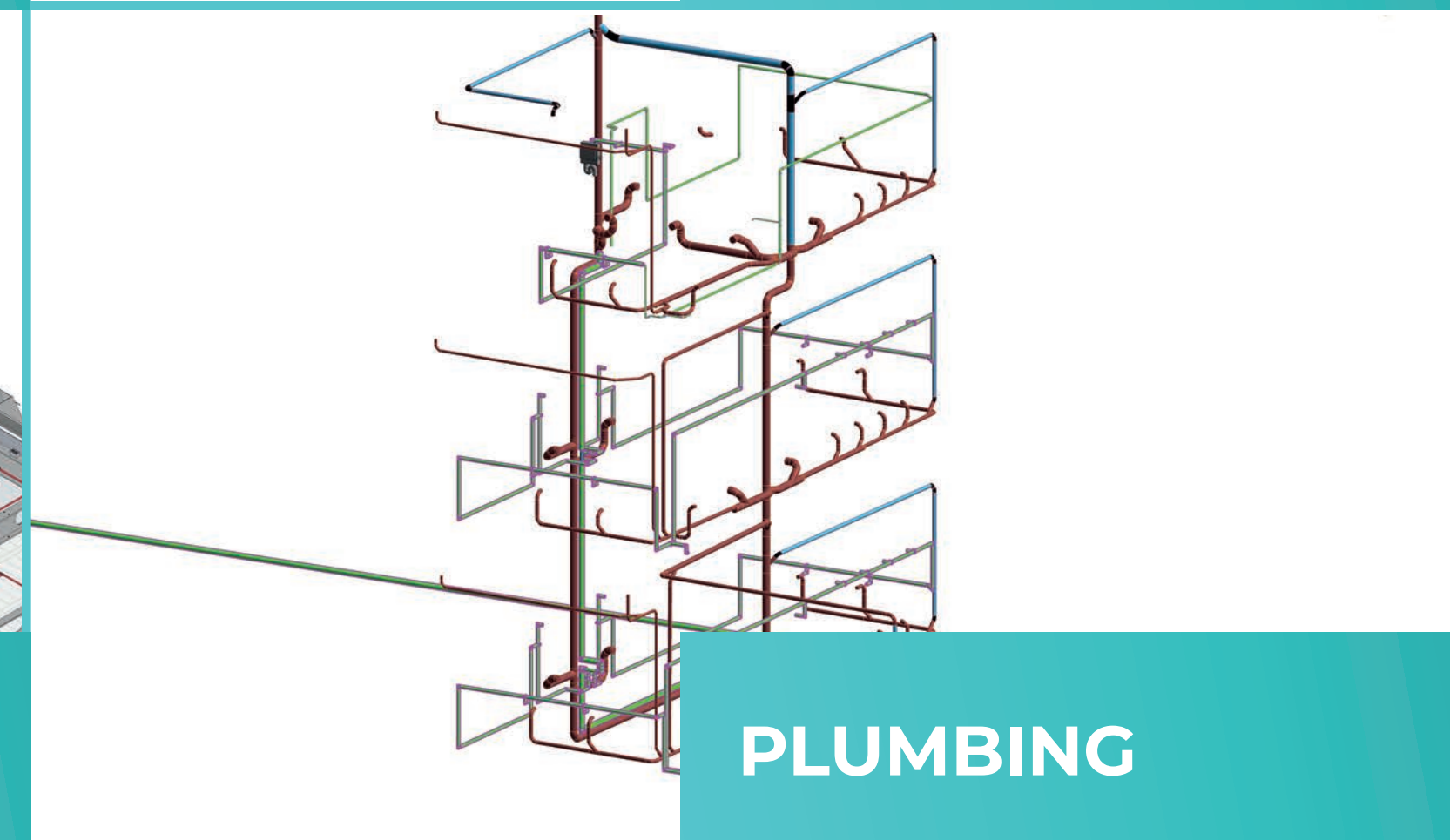
AIR CONDITIONING



ELECTRICAL



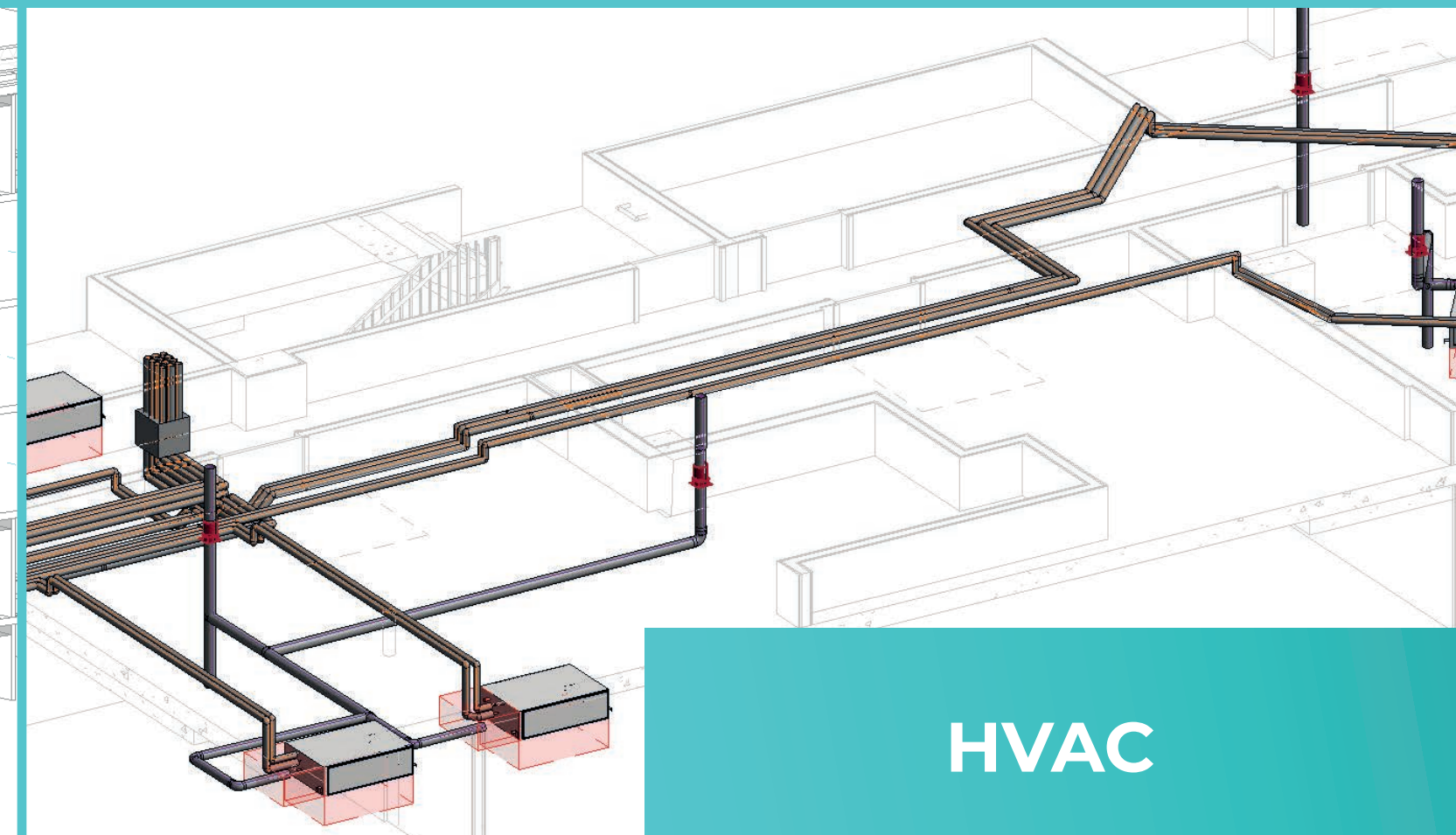
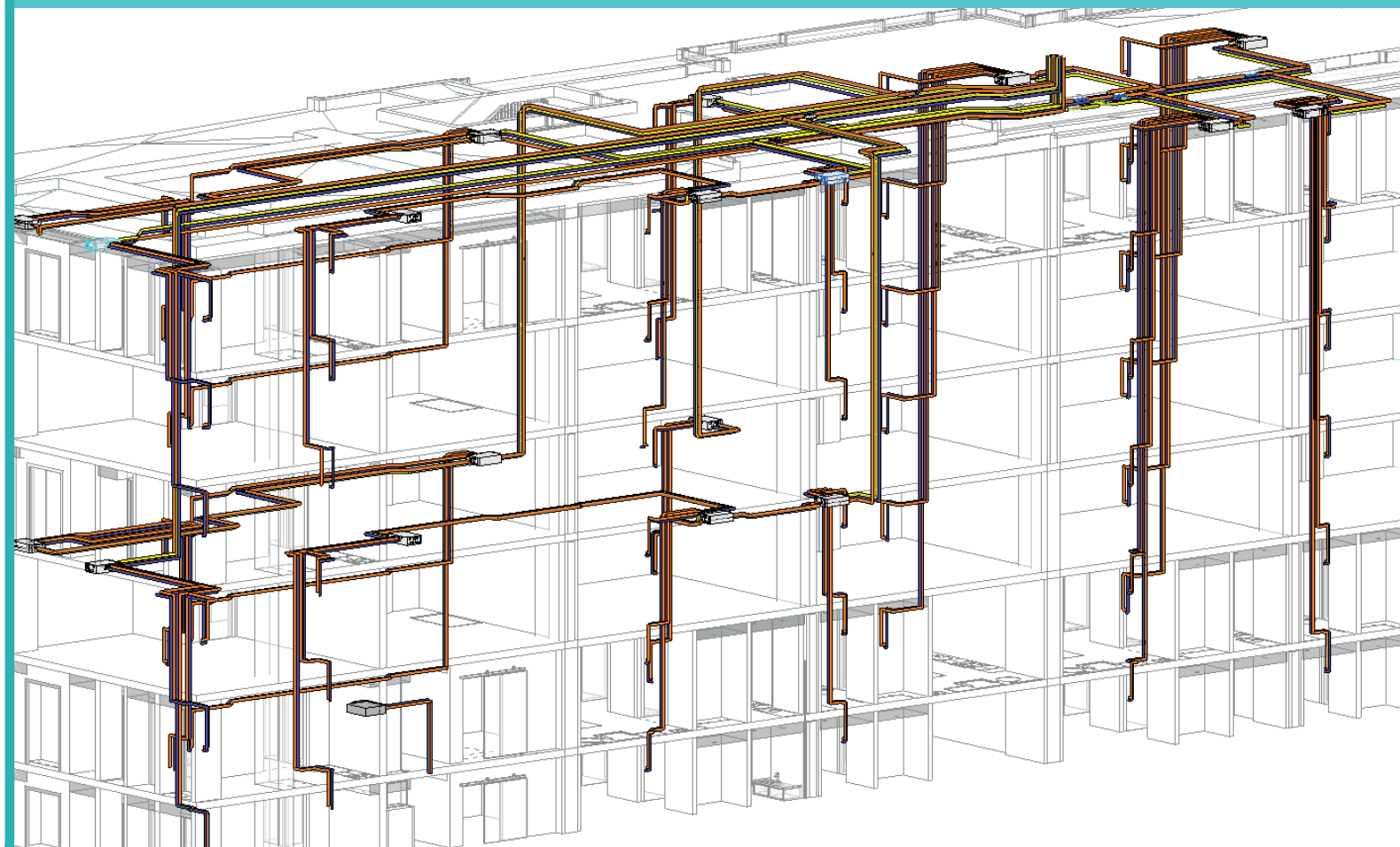
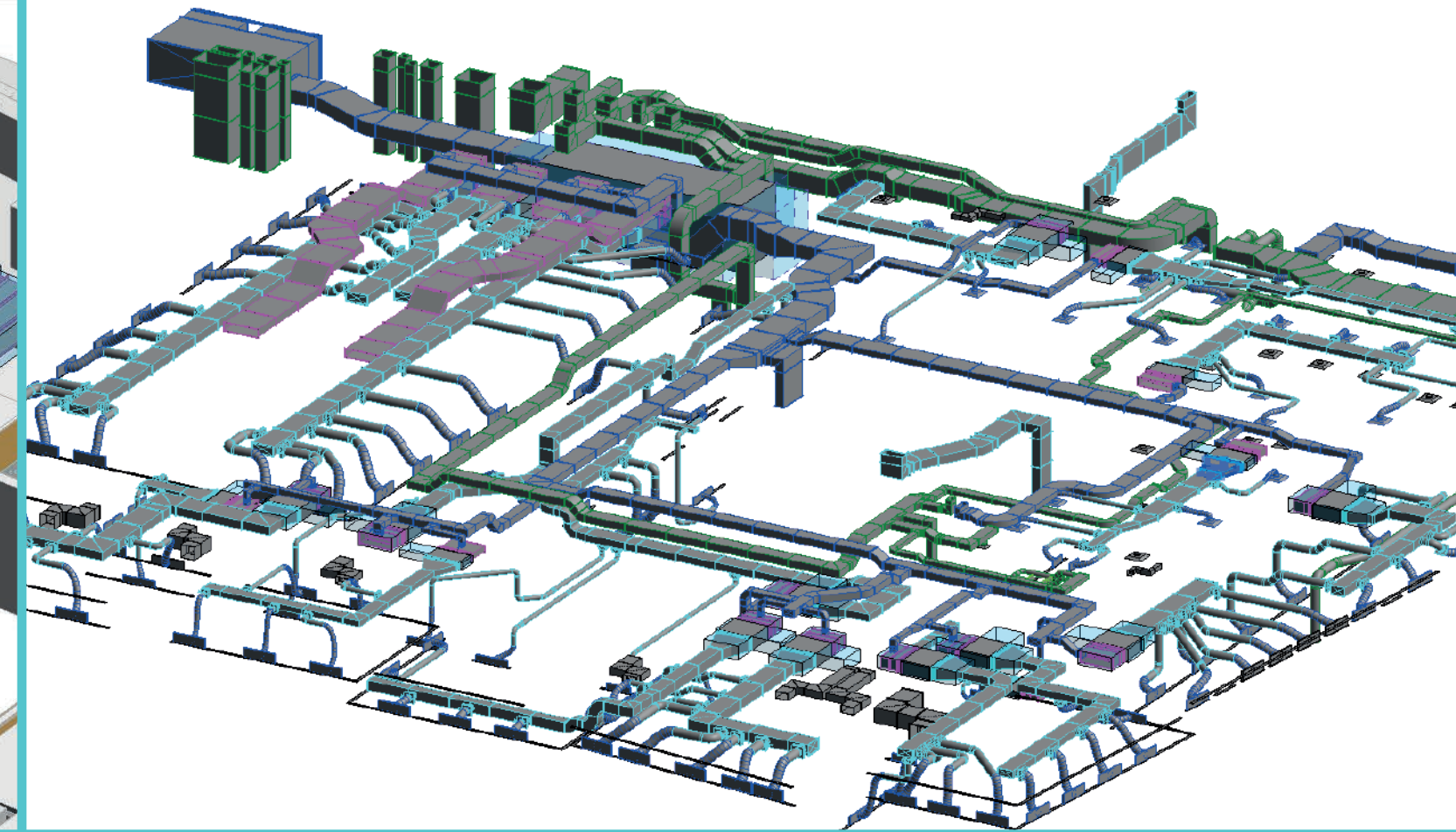
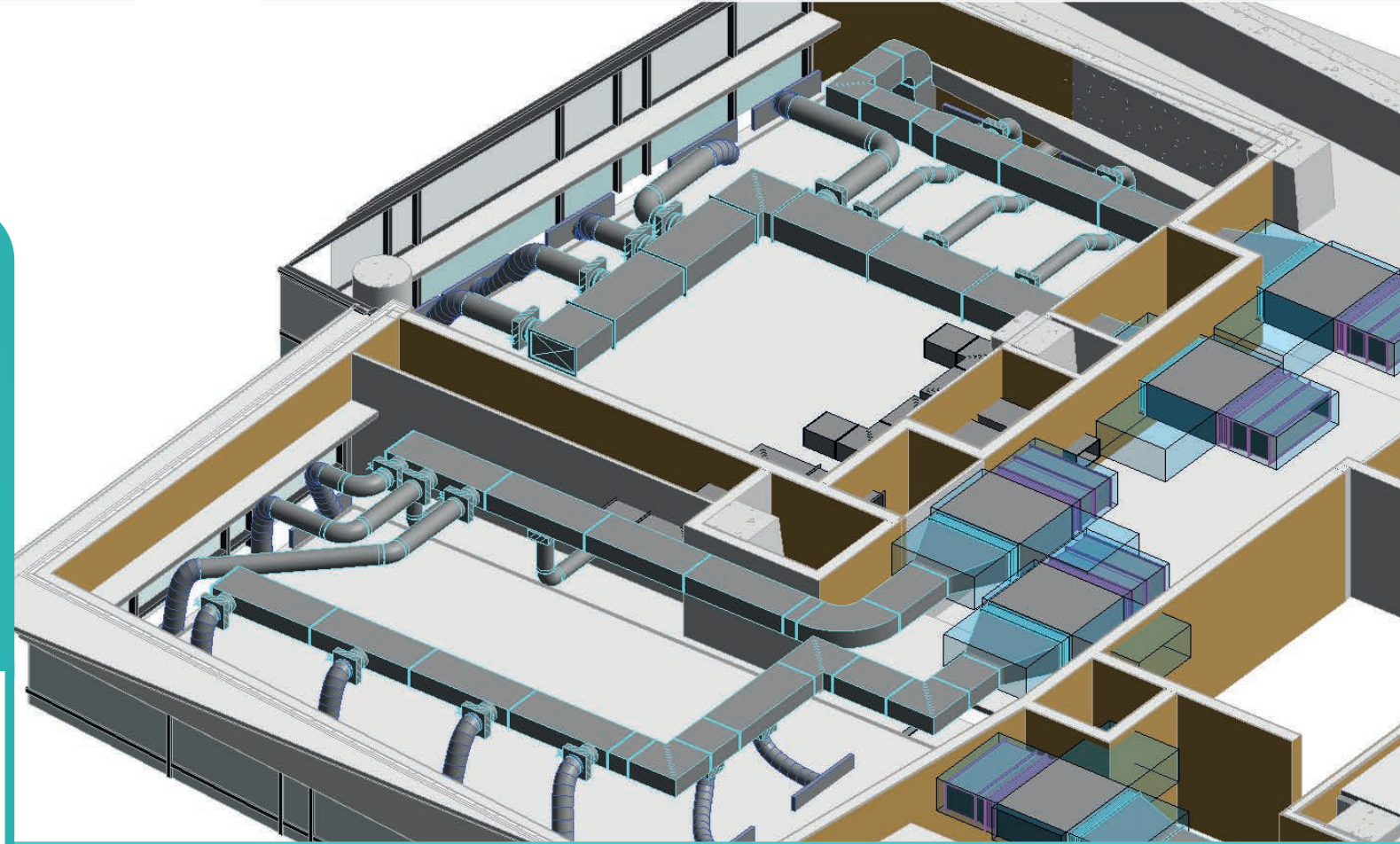
FIRE PROTECTION



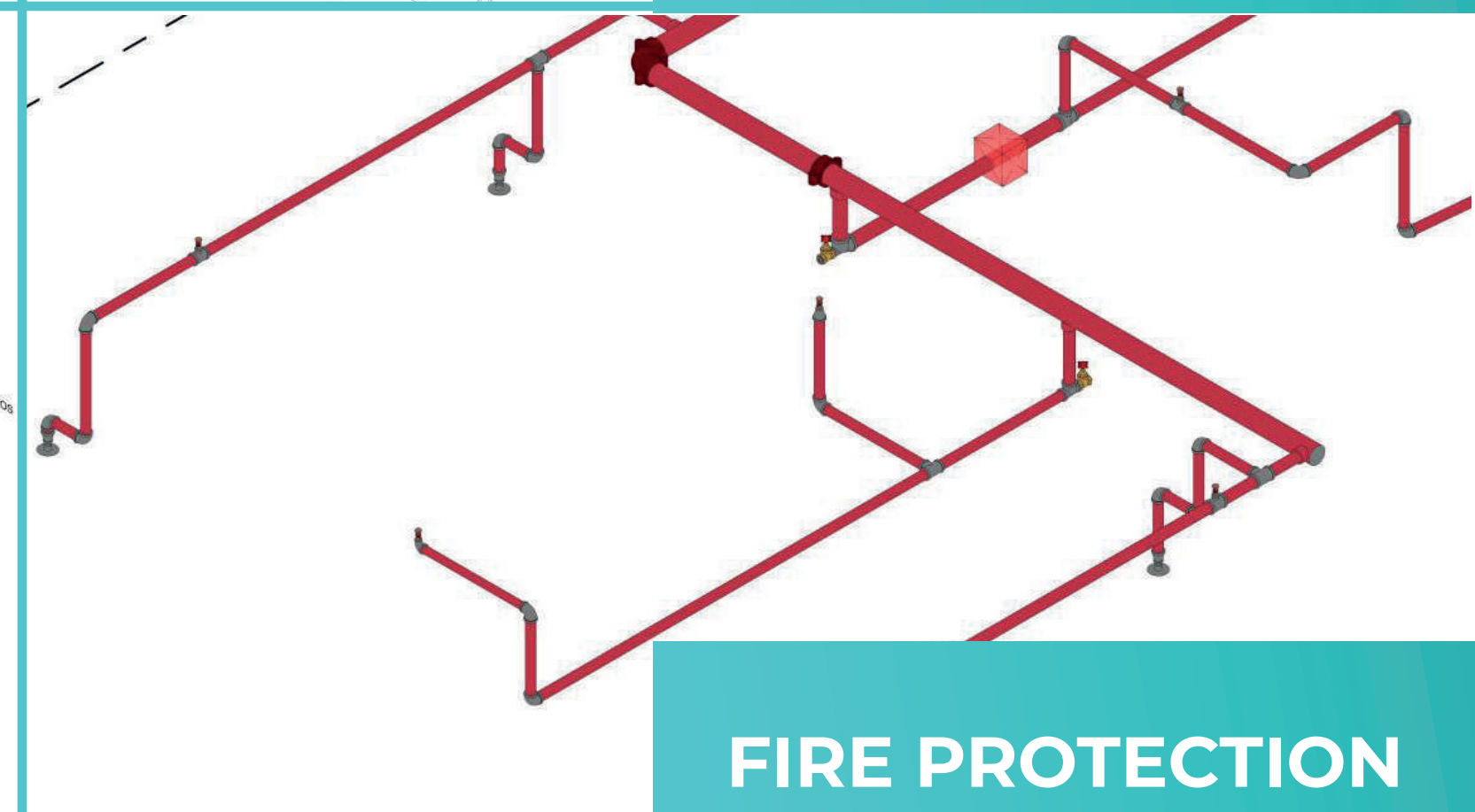
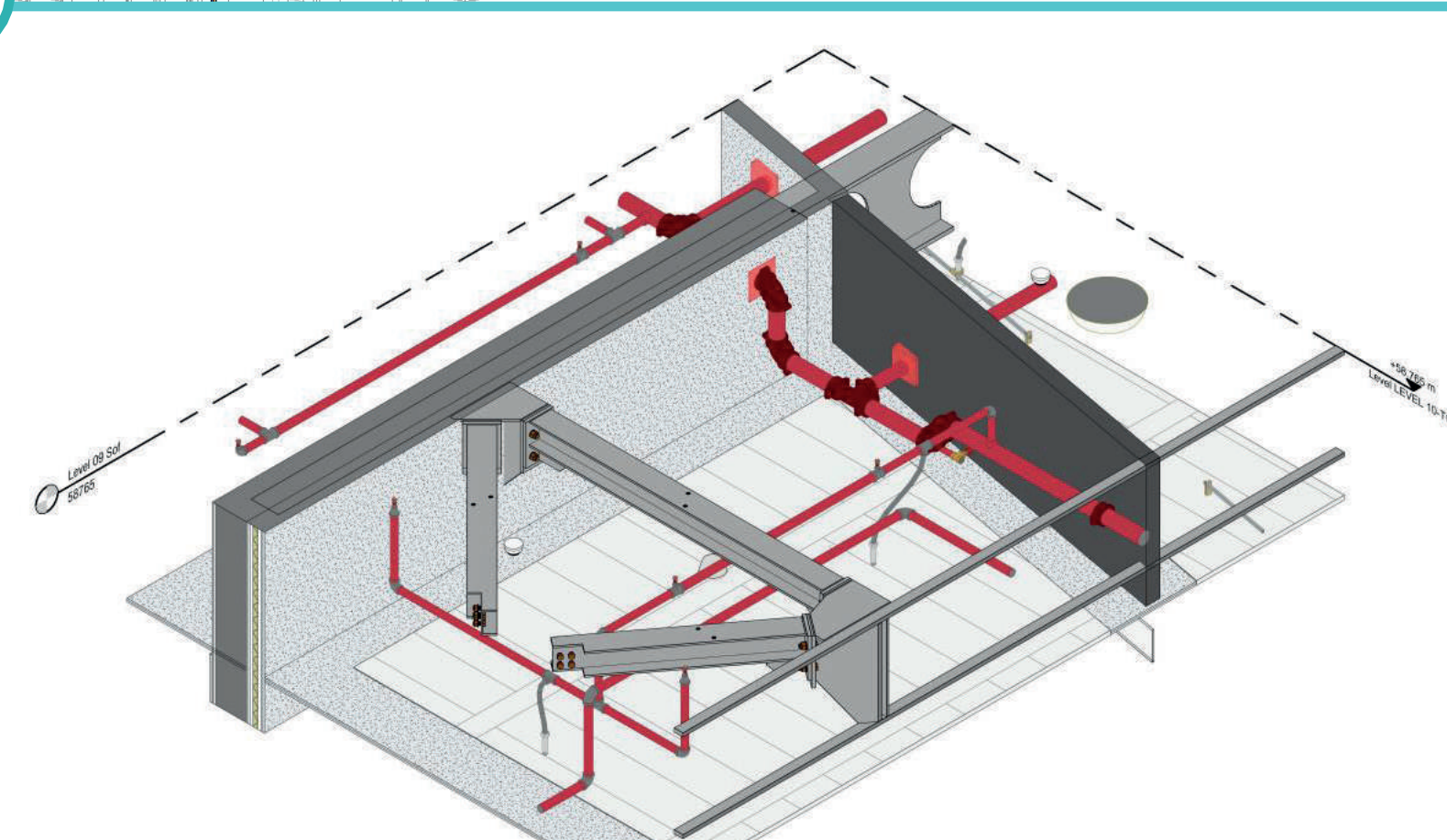
PLUMBING

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.



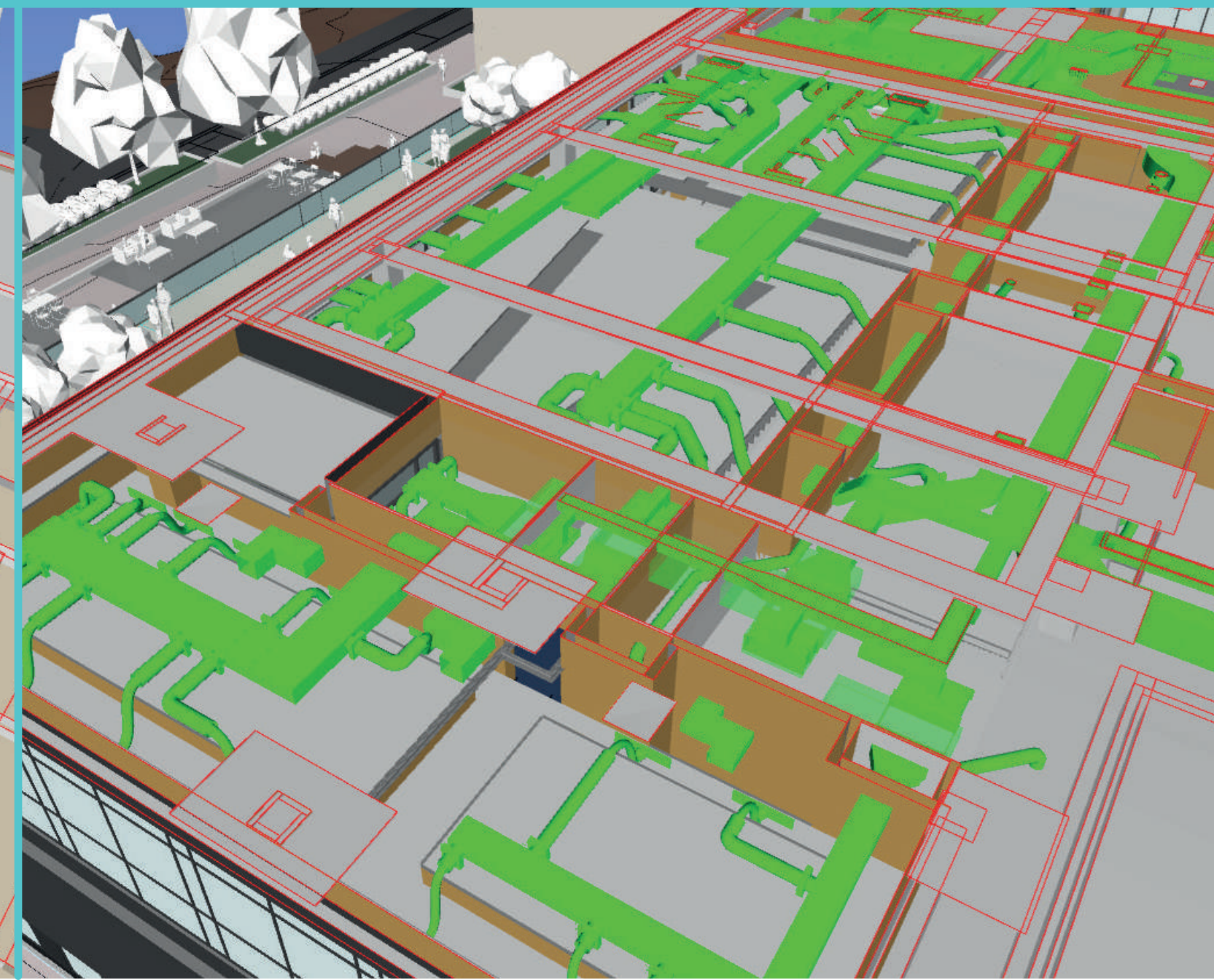
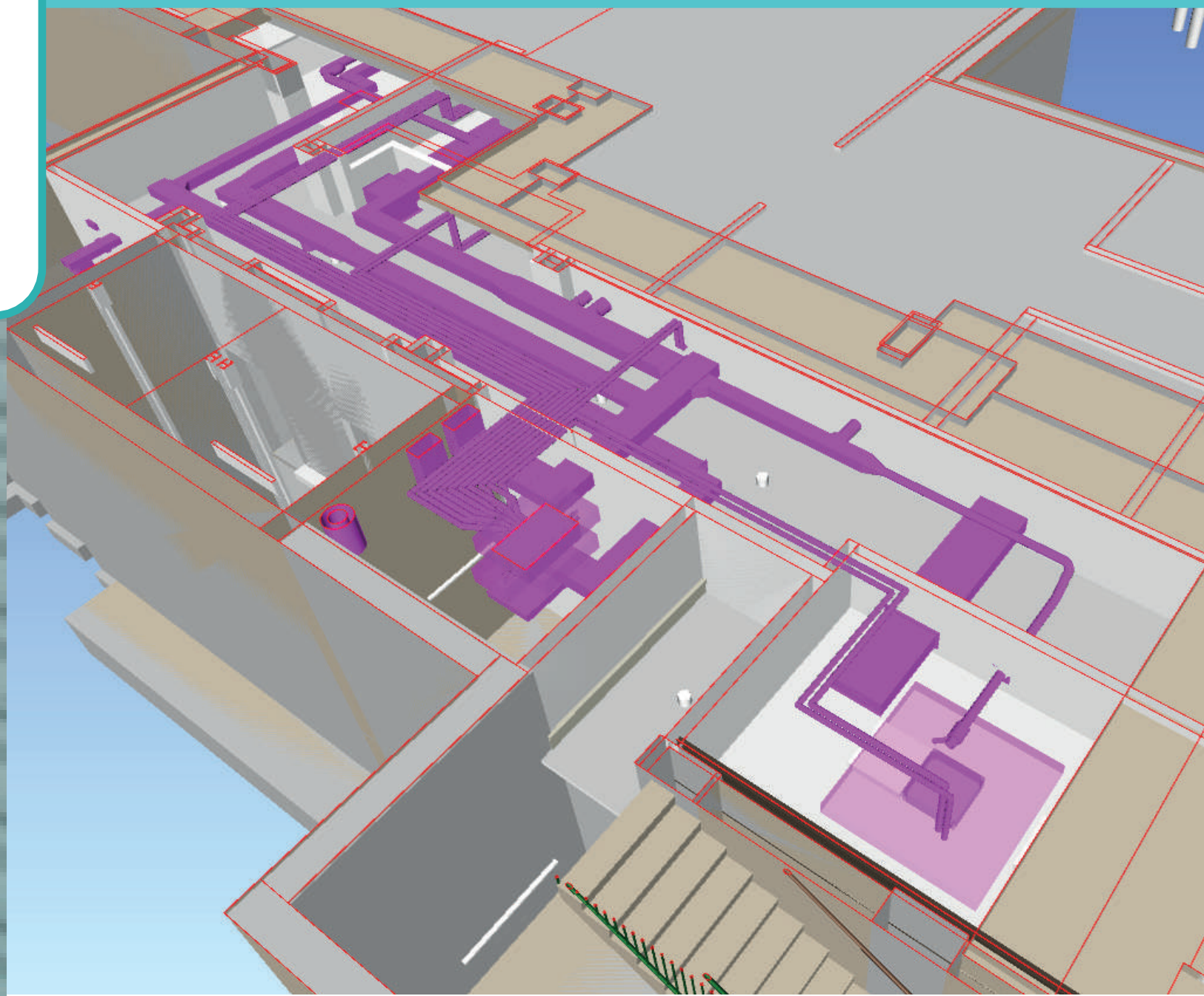
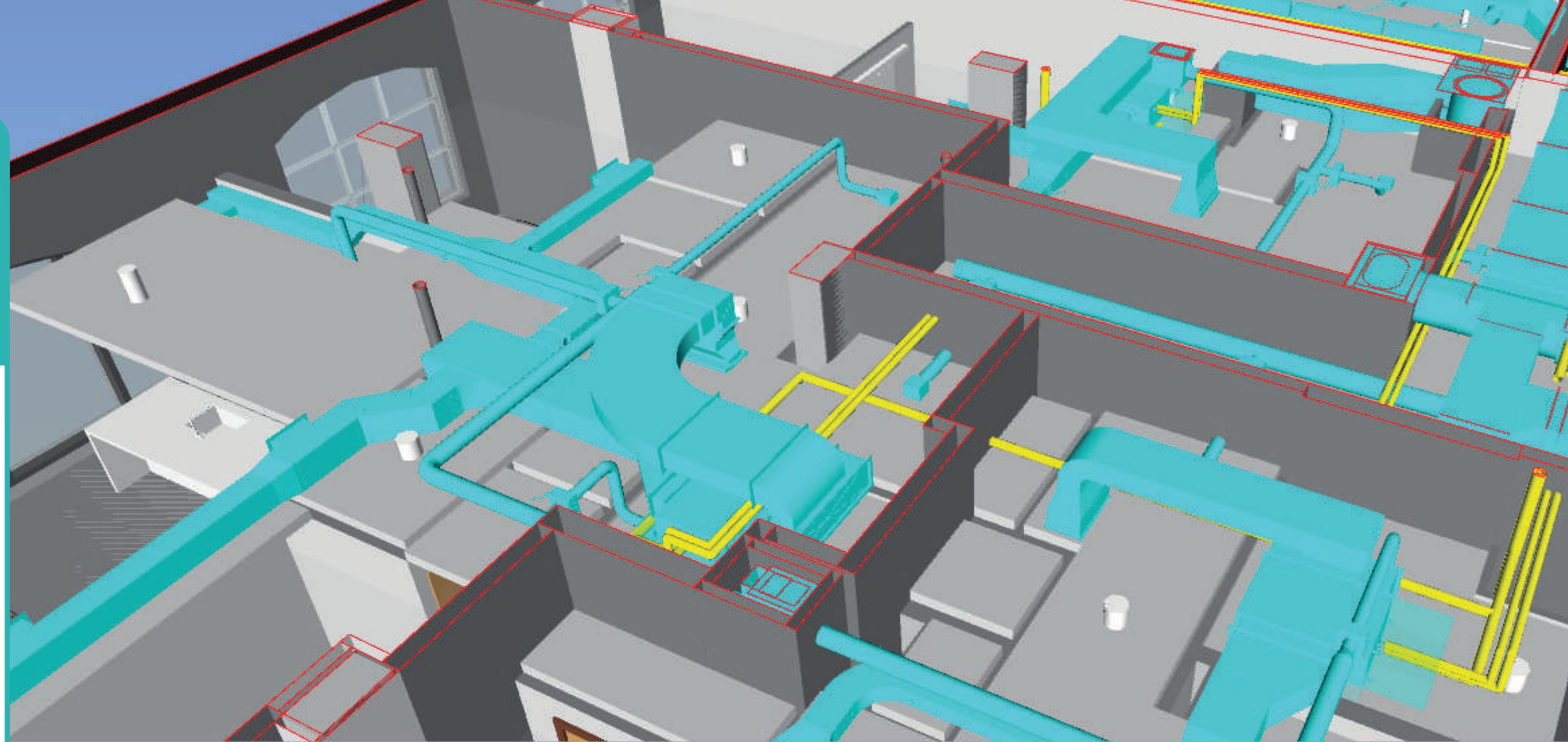
HVAC



FIRE PROTECTION

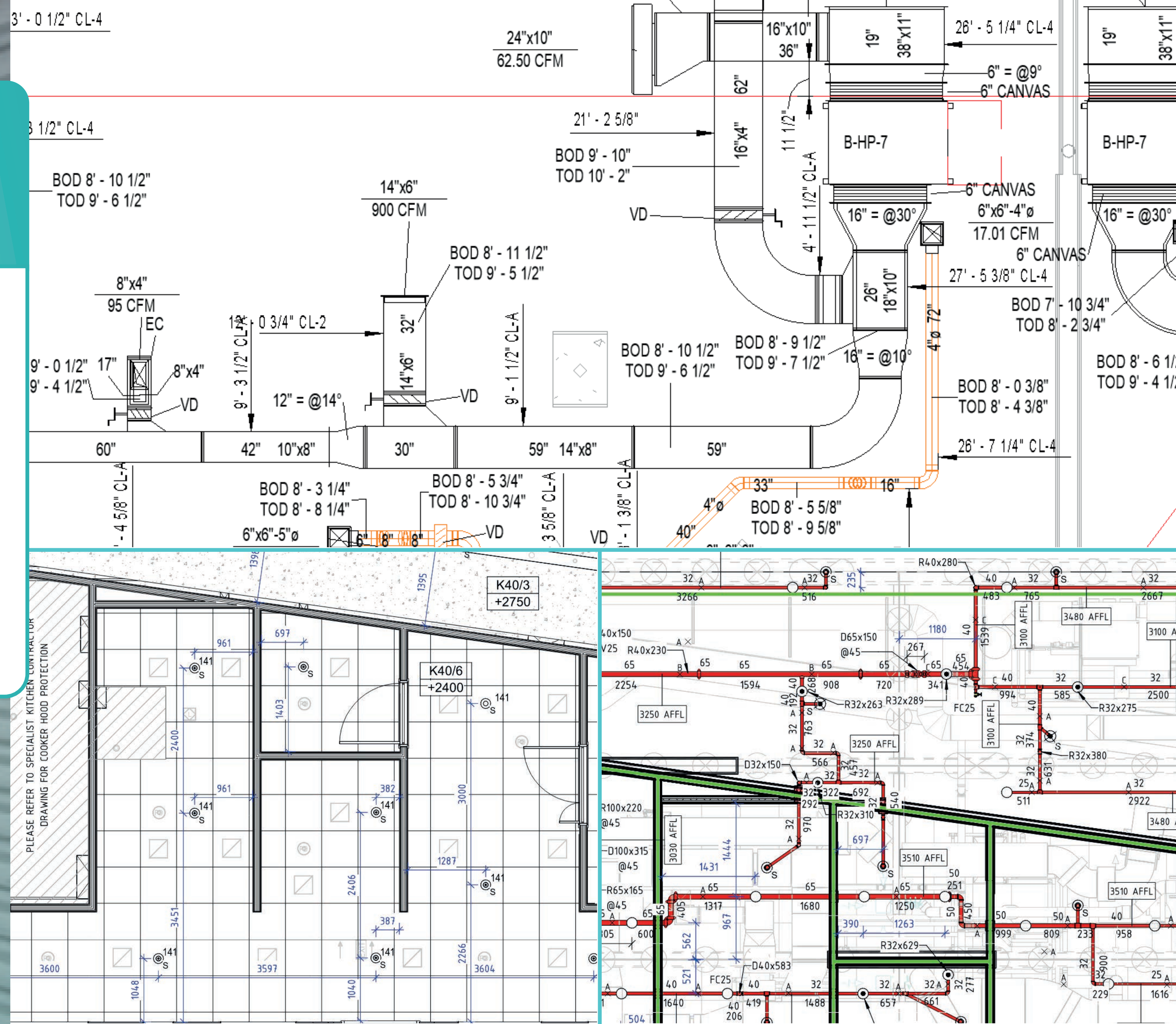
COORDINATION PROCESS

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.



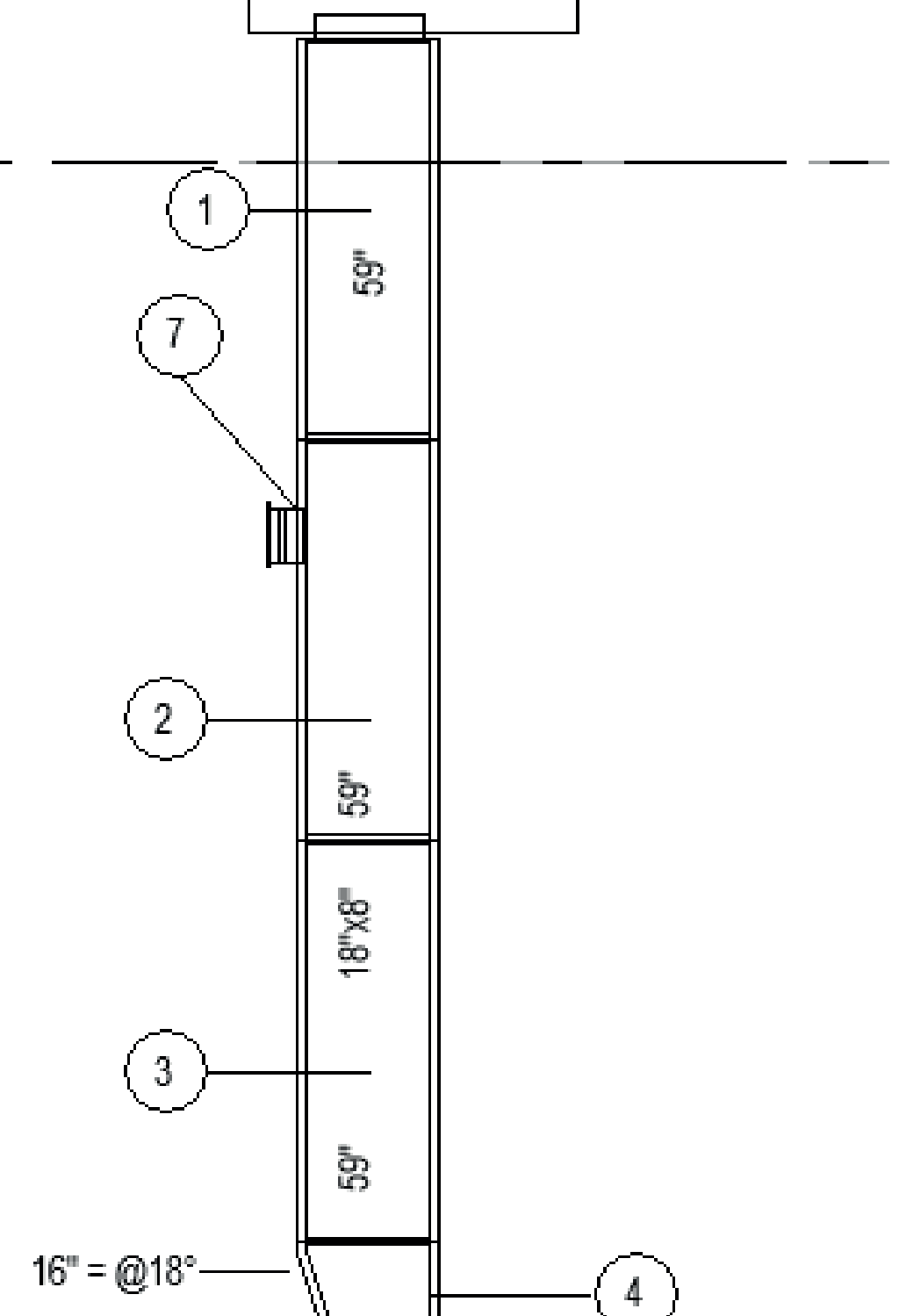
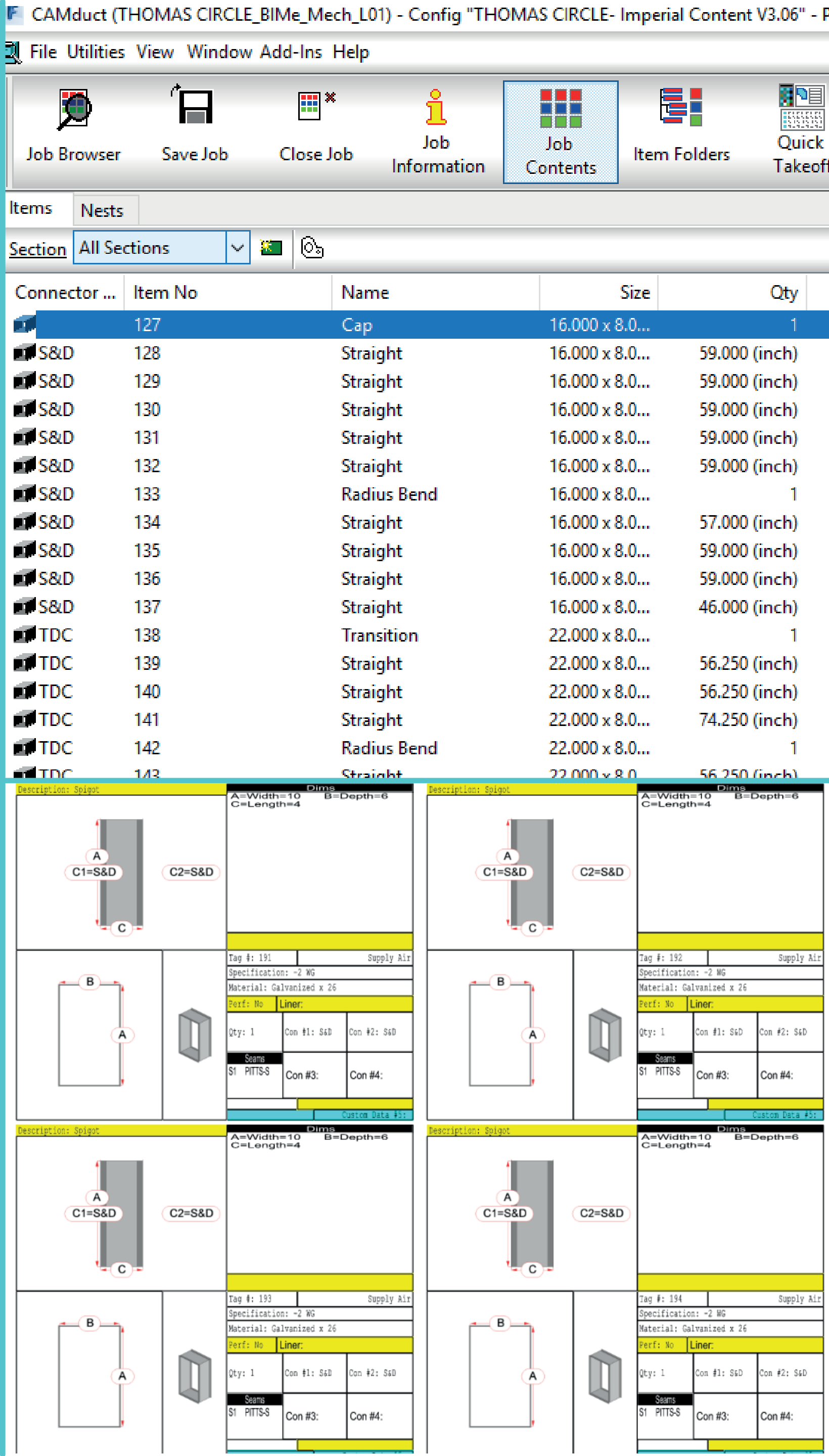


Diagram showing a vertical duct assembly with dimensions and numbered callouts:

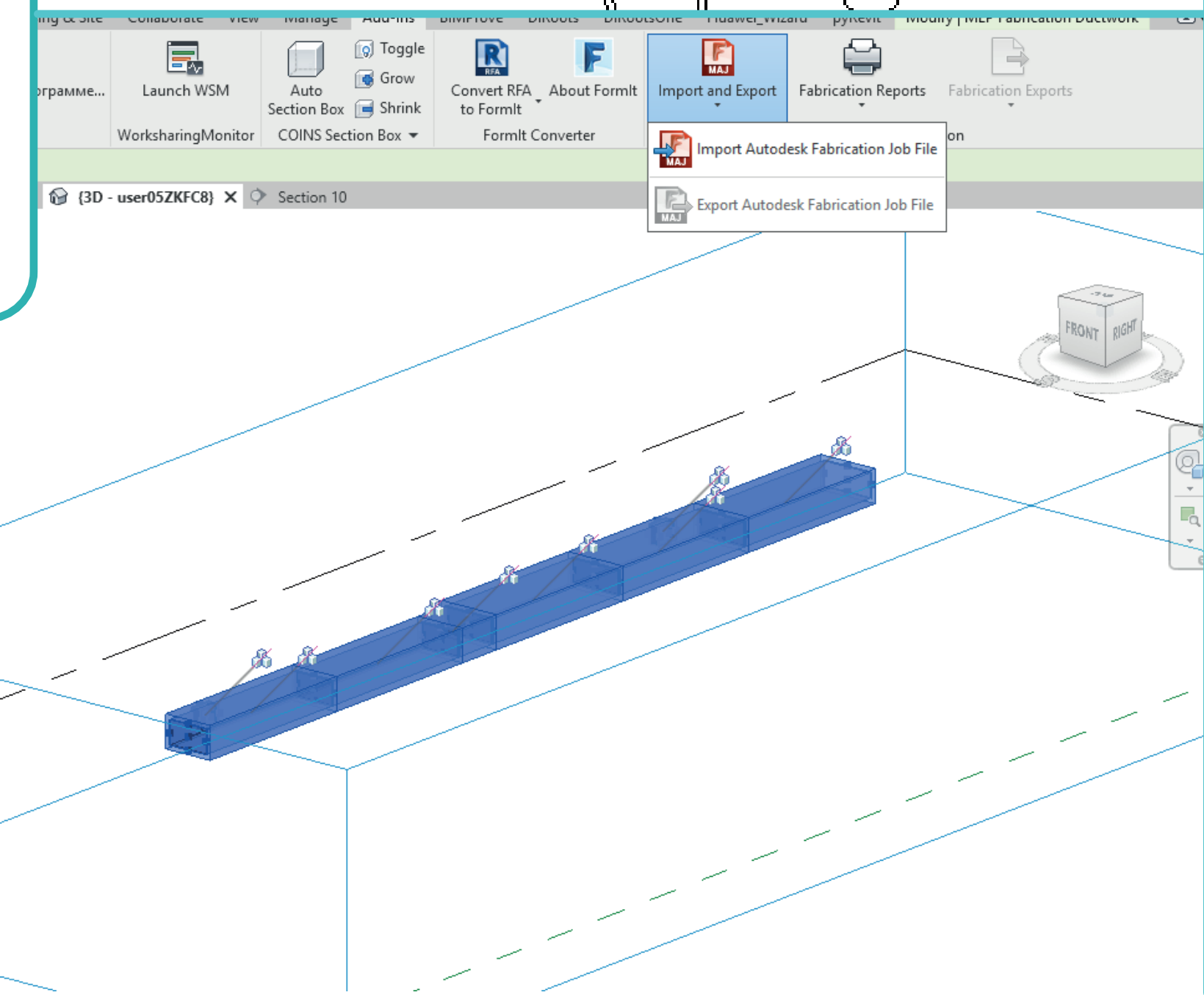
- 1: Top flange
- 2: Upper straight section (59")
- 3: Lower straight section (59")
- 4: Bottom flange
- 5: Transition section (18"x8")
- 6: Lower straight section (59")
- 7: Bottom flange
- 8: Angle: 16" = @18°



Software interface showing the Job Contents table and detailed spool data.

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)

Tag #	Supply Air	Specification	Material	Perf. No	Liner	Qty	Con #1	Con #2	Con #3	Con #4
191	Supply Air	~2 WG	Galvanized x 26			1	S&D	S&D		
192	Supply Air	~2 WG	Galvanized x 26			1	S&D	S&D		
193	Supply Air	~2 WG	Galvanized x 26			1	S&D	S&D		
194	Supply Air	~2 WG	Galvanized x 26			1	S&D	S&D		



3D visualization of the duct spool assembly, showing the transition section and the overall structure.

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



**Director of MEP Coordination
and Fabrication department**

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right now!**



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