



MEP COORDINATION AND FABRICATION



SUMMARY

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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



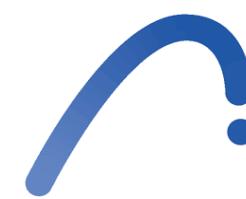
Fabrication CAMduct



Autodesk Autocad



SysQue



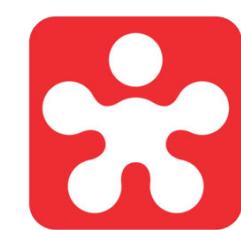
Graphisoft Archicad



Autodesk Navisworks



BIMcollab



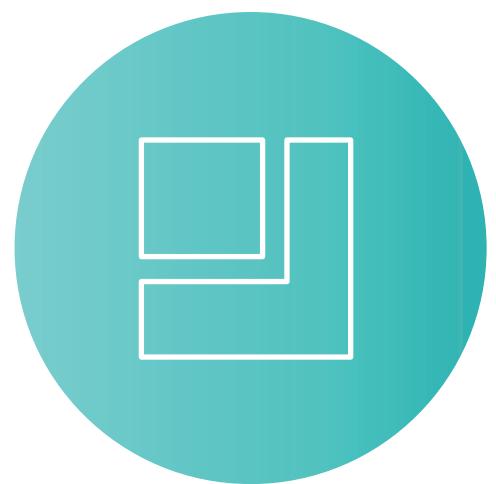
Revizto

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!



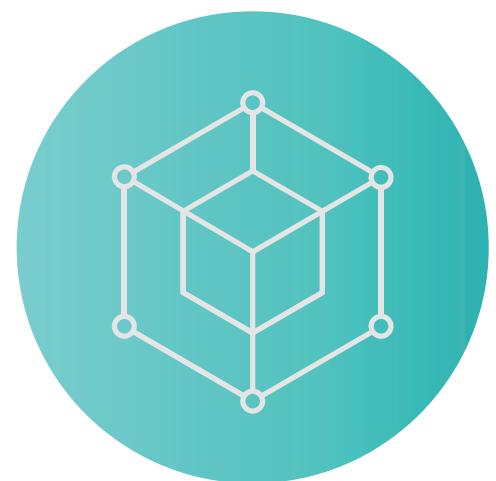
MEP FABRICATION SERVICES



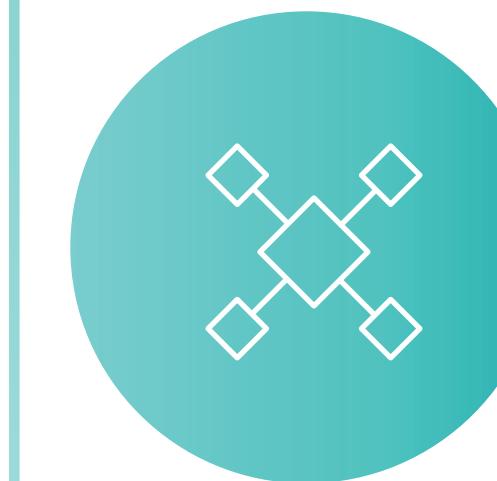
MEP FAMILIES
CREATION



MEP
MODELING



MEP
FABRICATION



COORDINATION

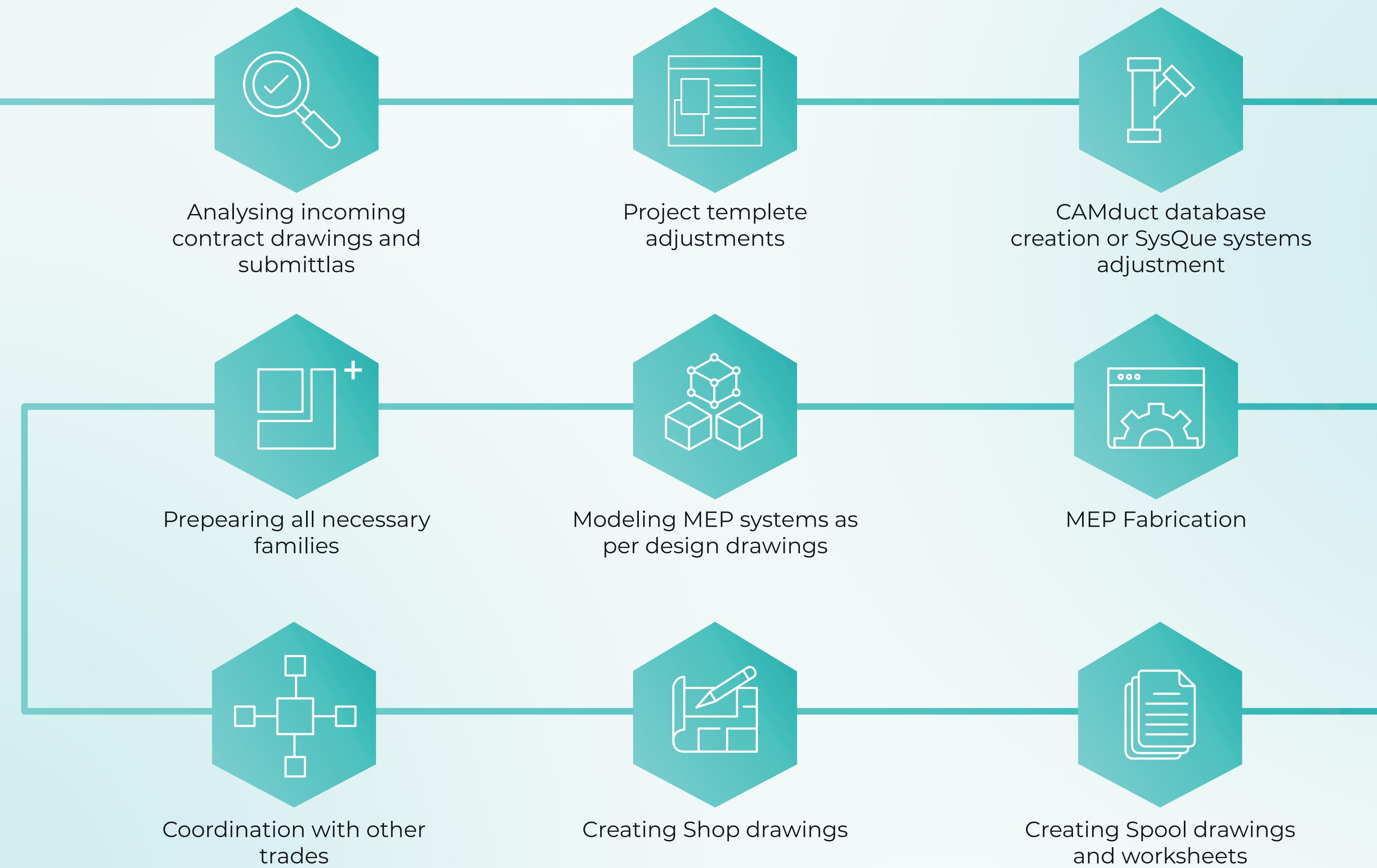


DRAWINGS
CREATION



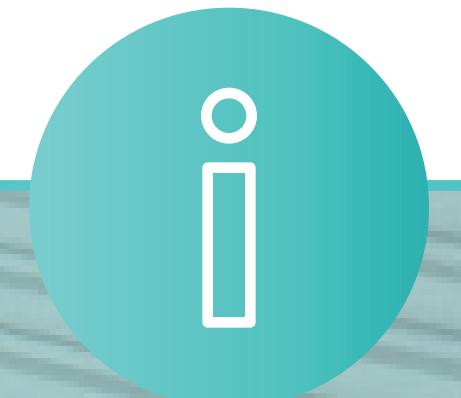
TIME
SCHEDULING

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.



The screenshot shows the 'Job Contents' tab selected in a software interface. On the left, there's a tree view of 'Item Folders' containing categories like Imperial Content, Electrical, HVAC, Generic, Equipment, Systems, Mechanical, Public Health, Structural, and zMasters. The 'Rectangular' folder under Systems is currently selected. The main area displays a grid of component icons with labels: Breeches Piece, Cap, Elbow, Grille Box (Top Entry), Grille Box Variable Hole, Mitred Offset, Radius Bend, Radius Offset, Radius Tee, Reducing Bend, Side Branch, Square Bend, Square to Round, Straight, Tap, Tee, Transition, Grille Box (Side Entry), Angled Grille Box, Angled Oval Tap, Angled Plenum with Round Tap, Angled Tap with Plate, Angled Tap without Plate, Angled Taper, Box Radius Edge, Breeches Three Way Type 1, Breeches Three Way Type 2, Breeches Two Way, Cabinet, Canopy, Cap End Type 1, Cap End Type 2, Cross with Closed End, Damper Blade, Damper Box Type 1, Damper Box Type 2, Damper Box Type 3, Damper Sleeve Tapered, Damper Sleeve, Double Bend, and Ductboard. A large teal banner at the bottom right reads 'COMPONENTS LIBRARY'.

CONNECTORS TYPES

The screenshot shows the Fittings module interface. The top navigation bar includes Configuration, Manufacturing, Fittings (selected), Takeoff, and Costing. On the left, a sidebar lists various components like Facings, Seams, Connectors, Stiffeners, Splitters, Airtums, Supports, Dampers, Insulation, and Seams. The main area displays a specification table for 2 WG Galvanized rectangular fittings. The table has columns for LS, SS, Gauge, STD Straight, Connector (In), Connector (Out), Connector (Sqr-Rnd), Seam, and Stiffener. The data shows multiple rows of connector types corresponding to different sizes and standards.

<= 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

COMPONENTS LIBRARY

The screenshot shows a software application window with a toolbar at the top featuring icons for Configuration, Manufacturing, Fittings, Takeoff, and Costing. The Manufacturing tab is selected. Below the toolbar is a search bar labeled "Specification" containing "Lagging 1" and a version dropdown "v1". A "Library" dropdown shows "Rectangular". The main area displays a table with one row:

<= Dim	Insulation Material
9999,000	Thermal Lagging x 1,000

On the left side of the interface, there is a vertical sidebar with a list of categories, some of which are partially visible or cut off. The visible items include:

- Configuration
- Manufacturing
- Fittings
- Takeoff
- Costing
- Parts
- Materials
- Connectors
- Diameters
- Switches
- Options

At the bottom right of the image, there is a large teal-colored overlay with white text that reads "INSULATION TYPES".

INSULATION TYPES

The screenshot displays the Autodesk Fabrication 2022 software interface. The top navigation bar includes 'File', 'Util...', 'Add-Ins', and 'Help'. Below the bar are several icons: Save Job, Close Job, Job Information, Job Contents, Item Folders, Quick Takeoff, Setup Processes, Automatic Nesting, Manual Nest, and Write NC. A 'Database' icon is also present. The main workspace is titled 'Configurations' and lists four items: 'NY' (Imperial), 'Stacks' (Imperial), 'Revit MEP Imperial Content V2.2' (Imperial), and 'Revit MEP Metric Content V2.2' (Metric). Each item has its path listed below it. To the right of the configurations are 'Create' and 'Add Link' buttons, followed by a 'Actions' section containing links like 'Create Blank Job', 'Show New Job Wizard', 'Show Job Browser', 'Open Job', 'Edit Database', 'Manage Database', and 'Import Statuses'. Below the actions is a 'Backup Job(s) Found' section and a 'Recent Jobs' section. On the far right, there's a vertical toolbar with icons for 'Rectangular', 'Round Brought Out', 'In Line Equipment', 'End of Line Equipment', 'Hangers', 'Oval', and 'Quick Takeoff'. The bottom left corner features the 'SK' logo and 'TATION CAMDCT' text. A large teal banner at the bottom center reads 'MAIN MENU'.

MAIN MENU

The screenshot displays a software application for creating system layouts, likely for metal fabrication. The interface includes a top menu bar with options like File, Takeoff, View, Window, Add-Ins, and Help. Below the menu is a toolbar with icons for Save Job, Close Job, Job Information, Job Contents, Item Folders, Quick Takeoff, Setup Processes, Automatic Nesting, Manual Nest, and Write NC. On the left side, there's a vertical toolbar with various icons representing different components or tools. The central workspace shows a 3D model of a sector-shaped part, specifically a flange or connector. The model is shown from a top-down perspective with some hidden lines. Dimension labels are overlaid on the model: A=24.00, D=2.00, F=R12.00, E=2.00, and S1=PITS-S. To the right of the model is a properties panel with the following settings:

- A) Width: 24,000
- B) Depth: 16,000
- C) Angle: 90,000
- D) Top Extension: 2,000
- E) Bottom Extension: 2,000
- F) Inner Radius: Half Width
- Qty: 1
- Item No: 1
- Material: Galvanized
- Double Wall
- Specification: +2 WG
- Insul Spec: Not Set
- Connector #1: Standing S&D
- Connector #2: Standing S&D
- Seam #1: PITS-S
- M-Rate: None
- Order:
- Notes:

Below the 3D model is a table titled "Items" with the following columns: Item No, Name, Size, Qty, Nested, Material, Area, Insulation, Material, and Notes. The table currently has no data. The bottom right corner of the screen features a large teal banner with the text "SYSTEM LAYOUT" in white capital letters.

SYSTEM LAYOUT

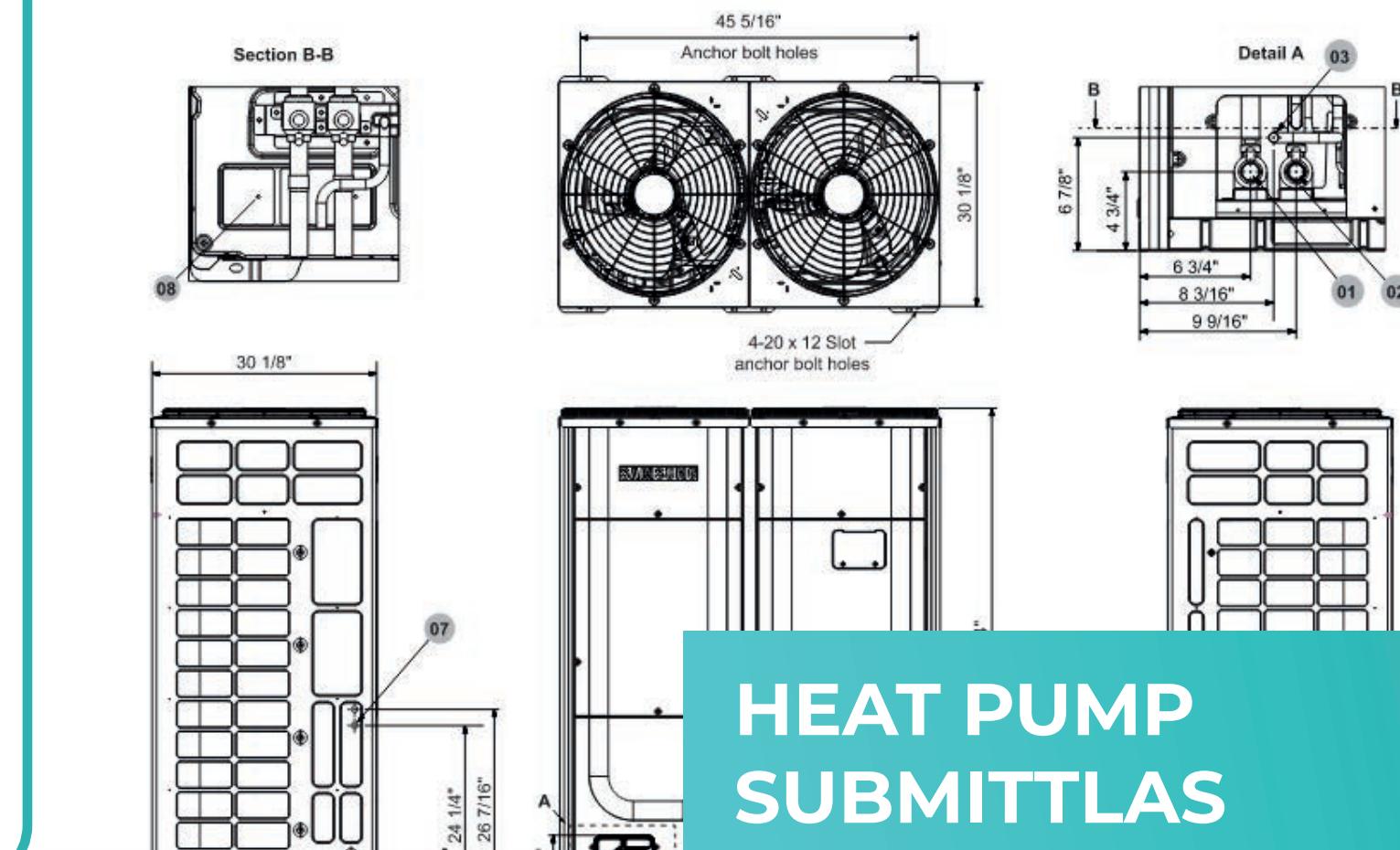
FAMILIES PREPARATION

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.

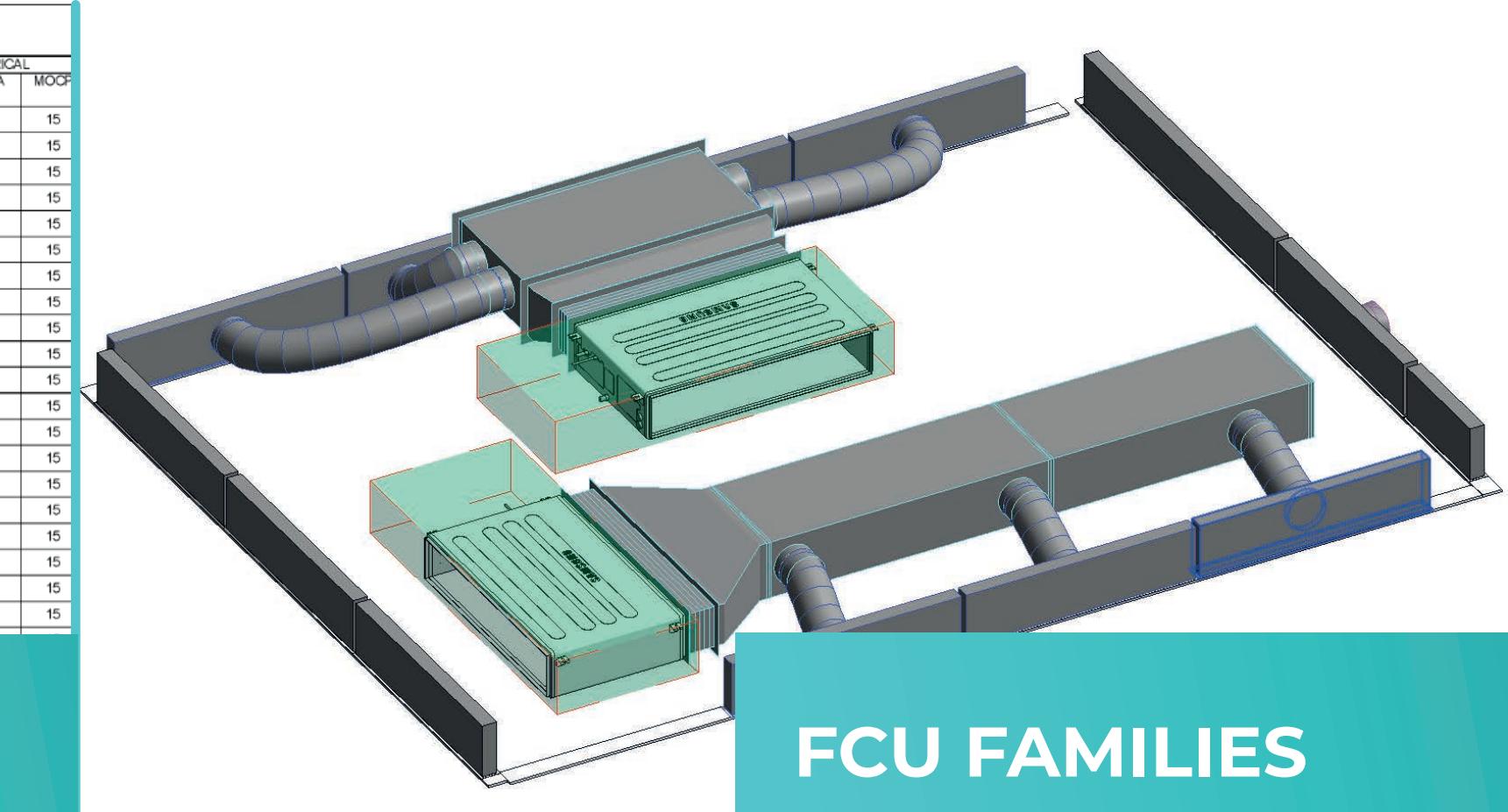


MARK	NOMINAL CAPACITY (TONS)	SERVICE	MANUFACTURER	MODEL	SUPPLY FAN			COOLING			HEAT PUMP HEATING CAPACITY			MIN. O/A (CFM)	ELECTRICAL			
					AIRFLOW (CFM)	MIN HP	ESP (IN)	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB/WB) (°F)	H/PUMP (MBH)	AMBIENT (°F)	EAT (°F)		V/PH	MCA	MOCP	
FCU-A1	2	1st FLR CDOR	FIRST COMPANY	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	65.7	92.2	135	208/1	4.3	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	65.7	92.2	135	208/1	4.3	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

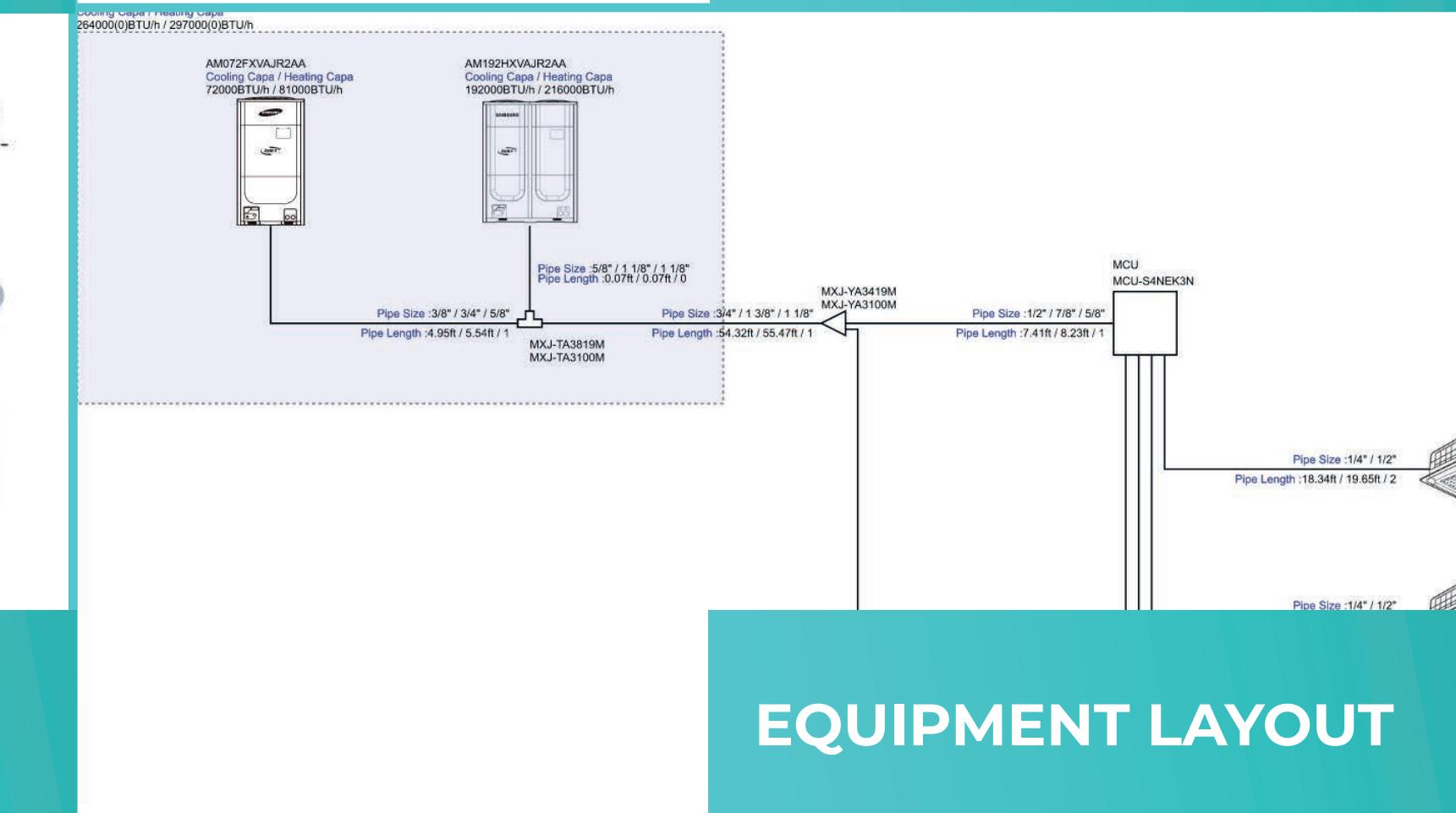
MECHENICAL SCHEDULE



HEAT PUMP SUBMITTLAS



FCU FAMILIES



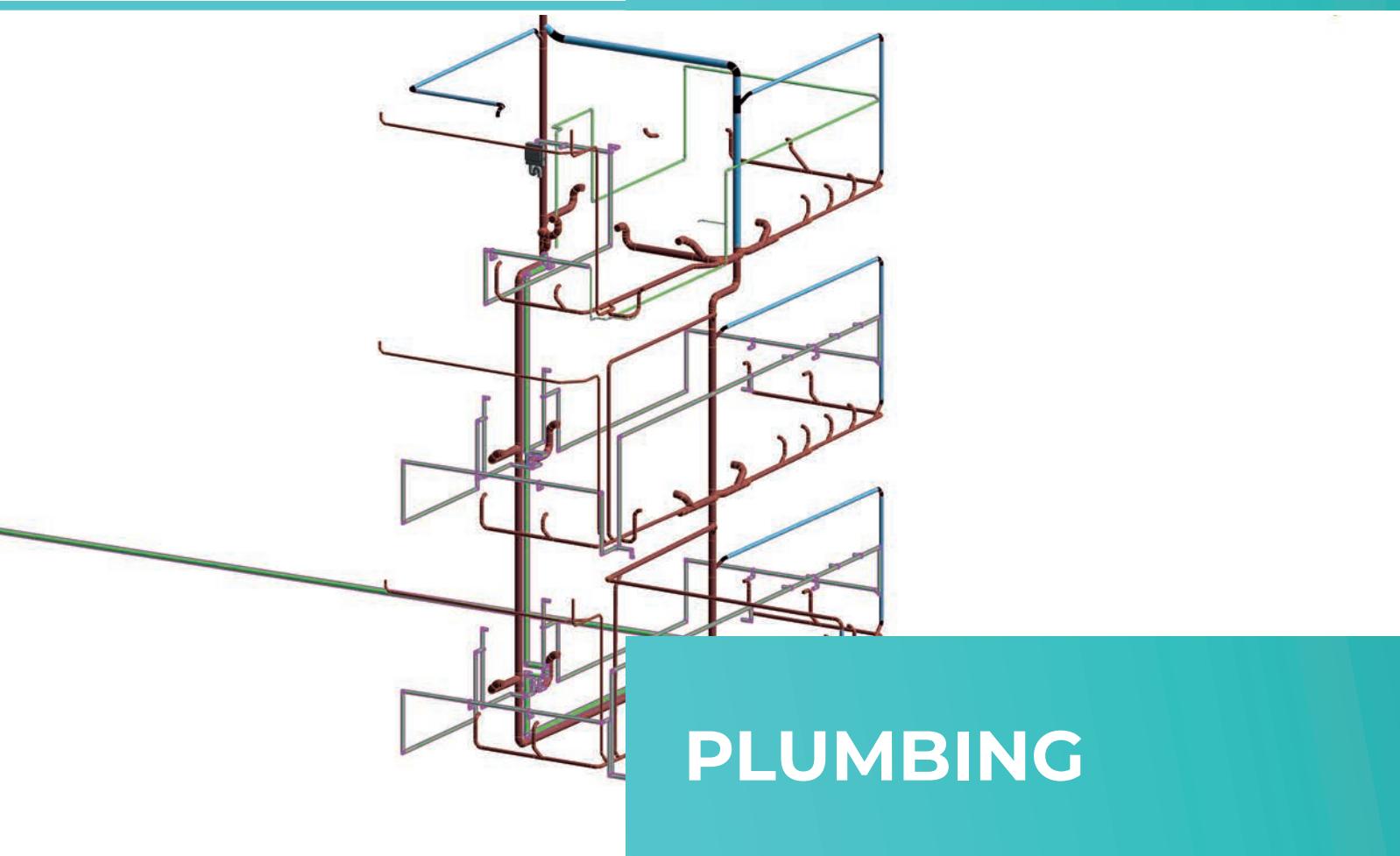
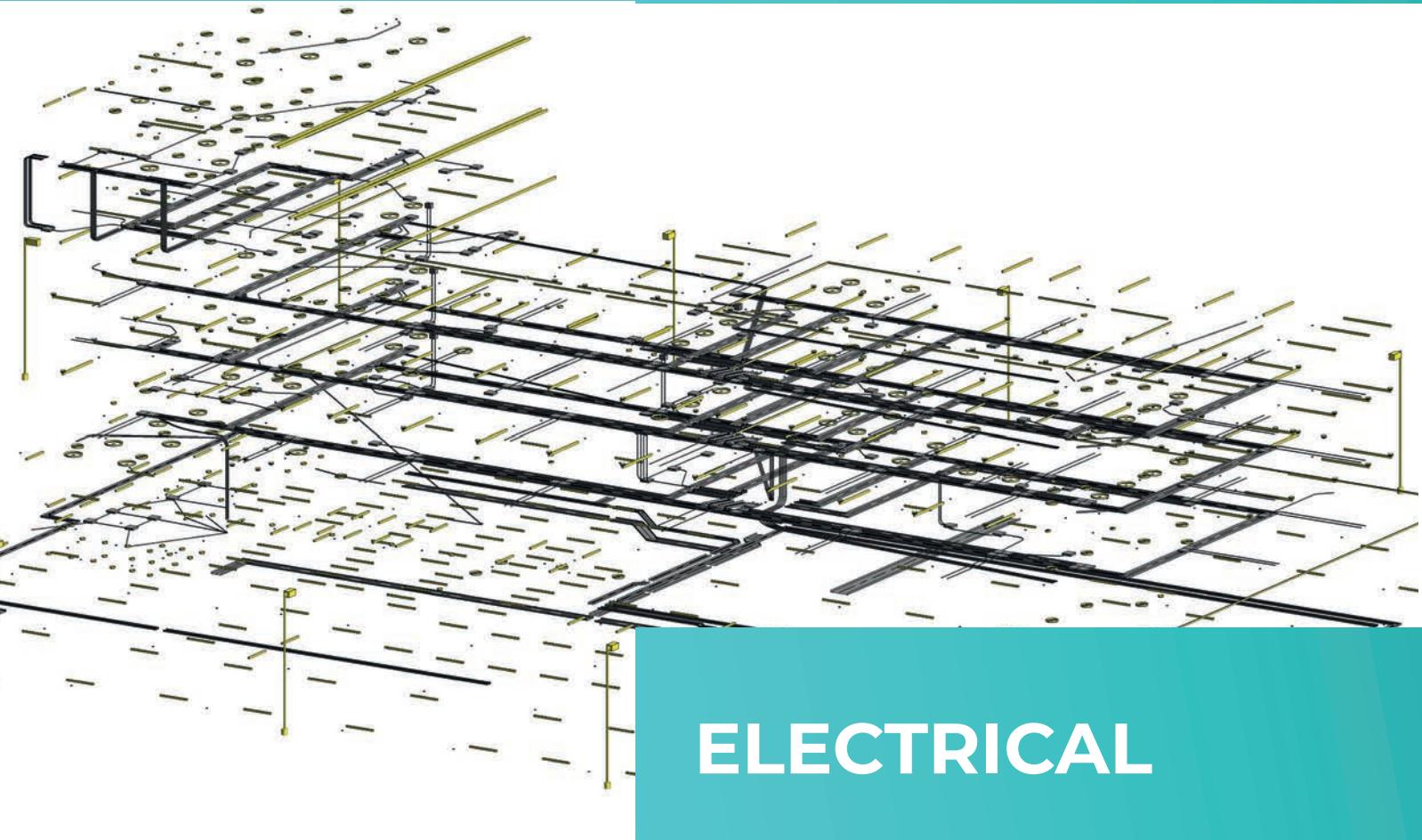
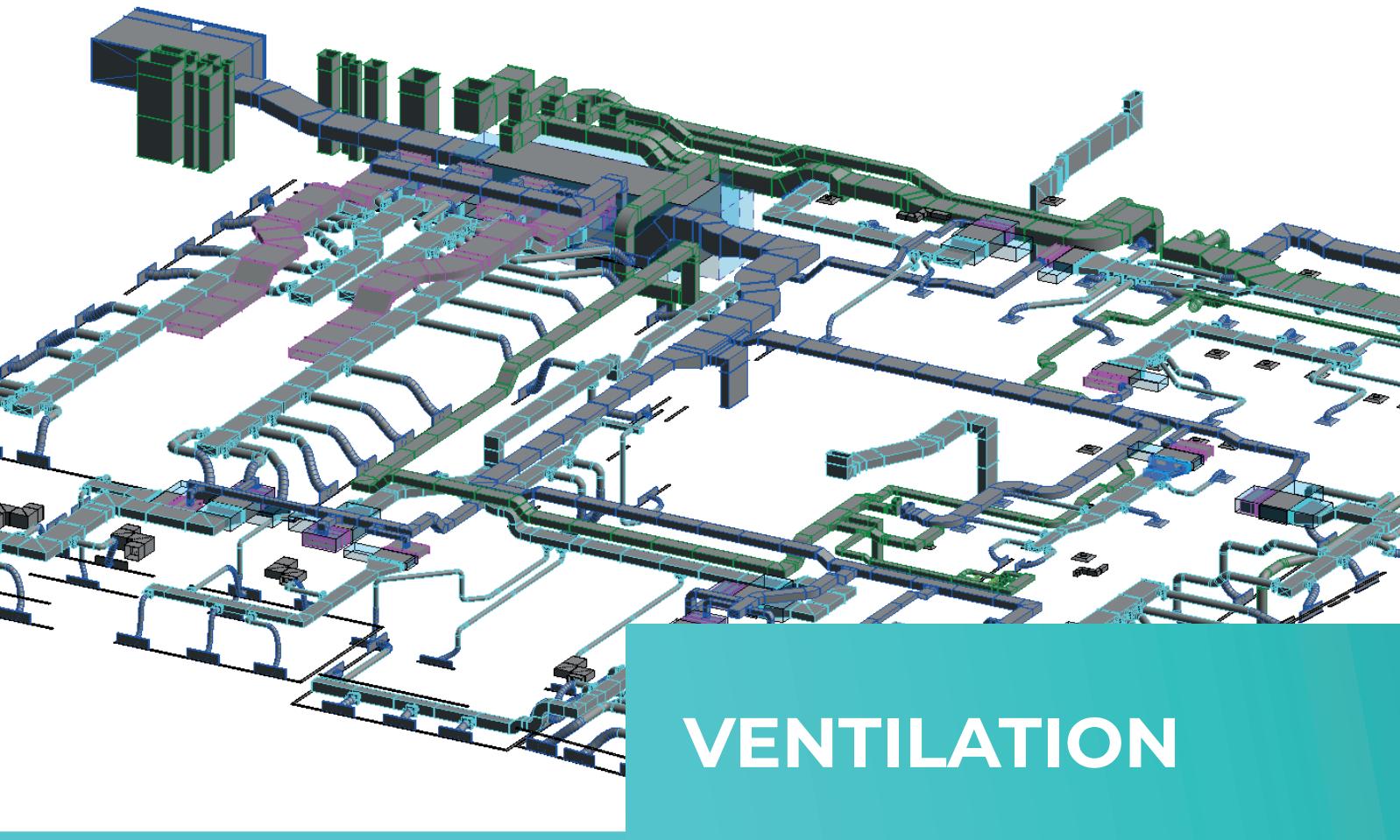
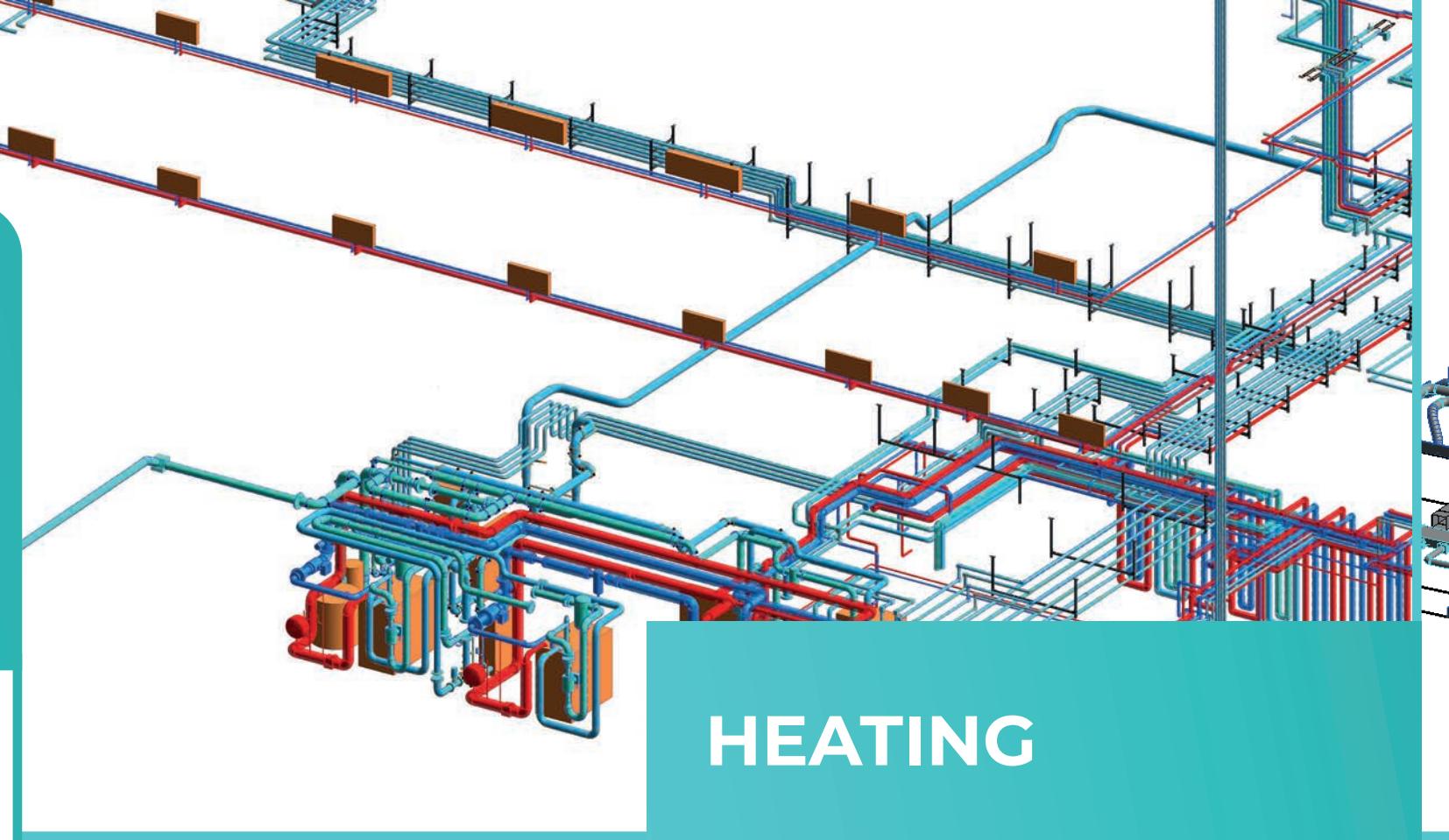
EQUIPMENT LAYOUT



HEAT PUMP FAMILIES

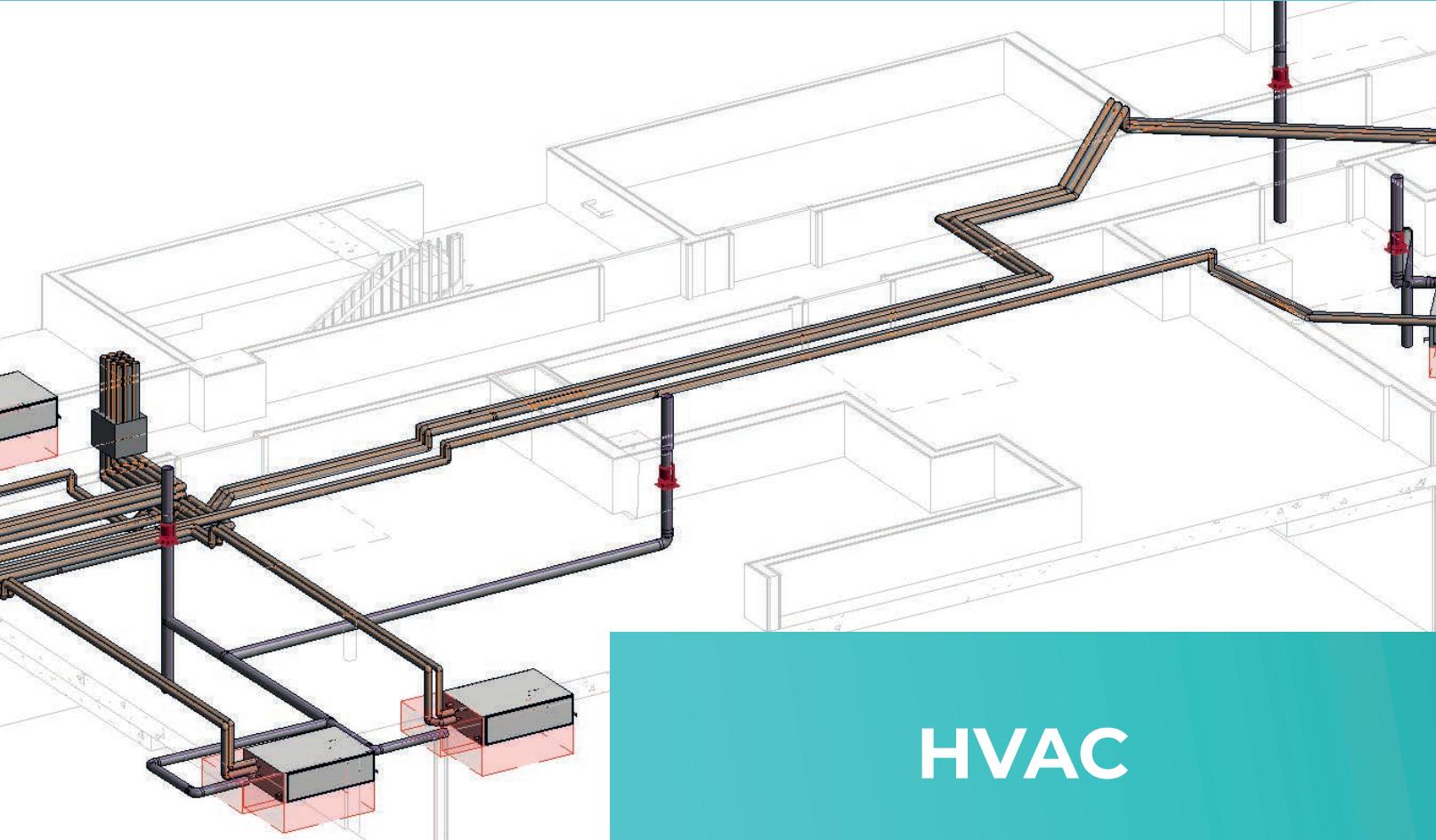
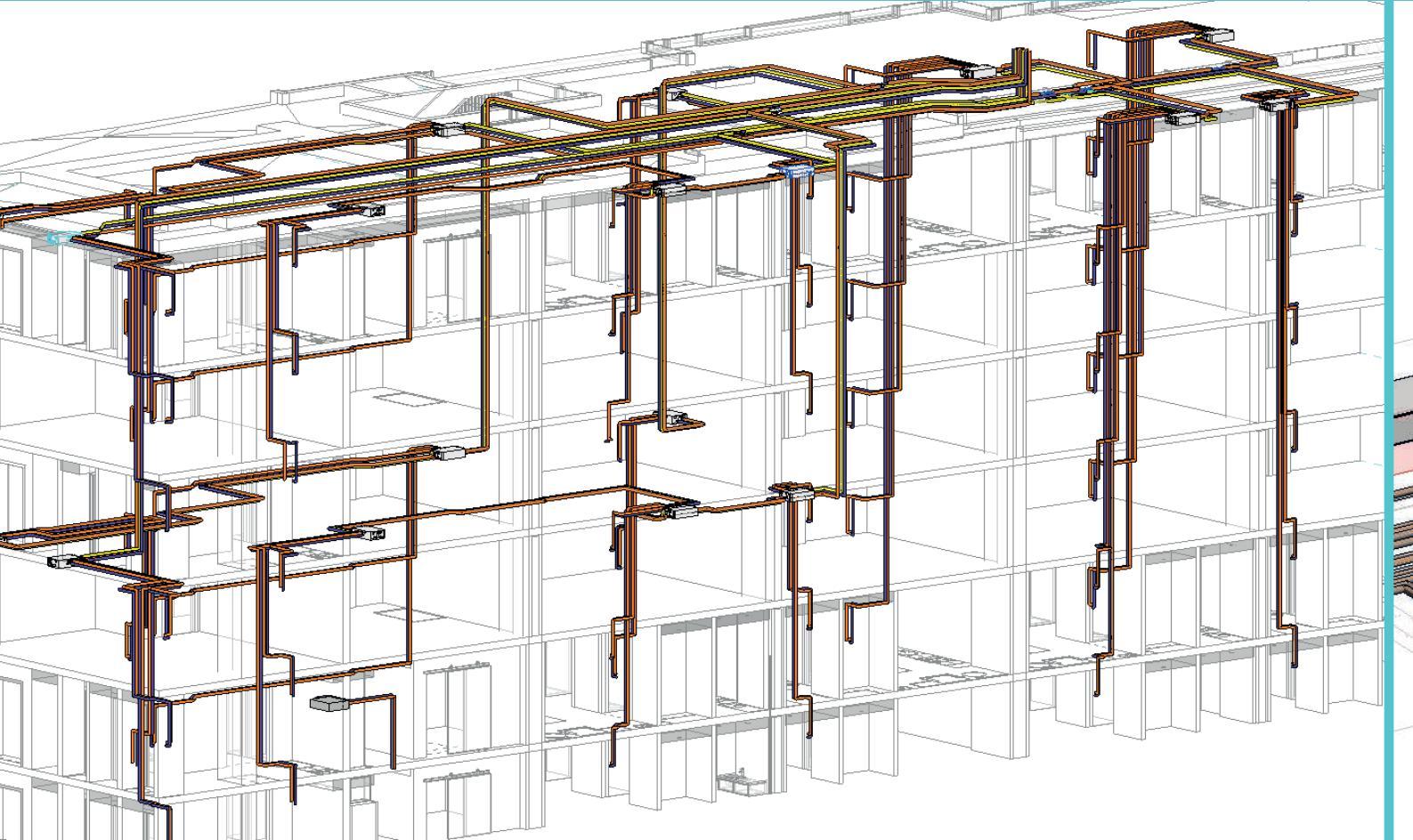
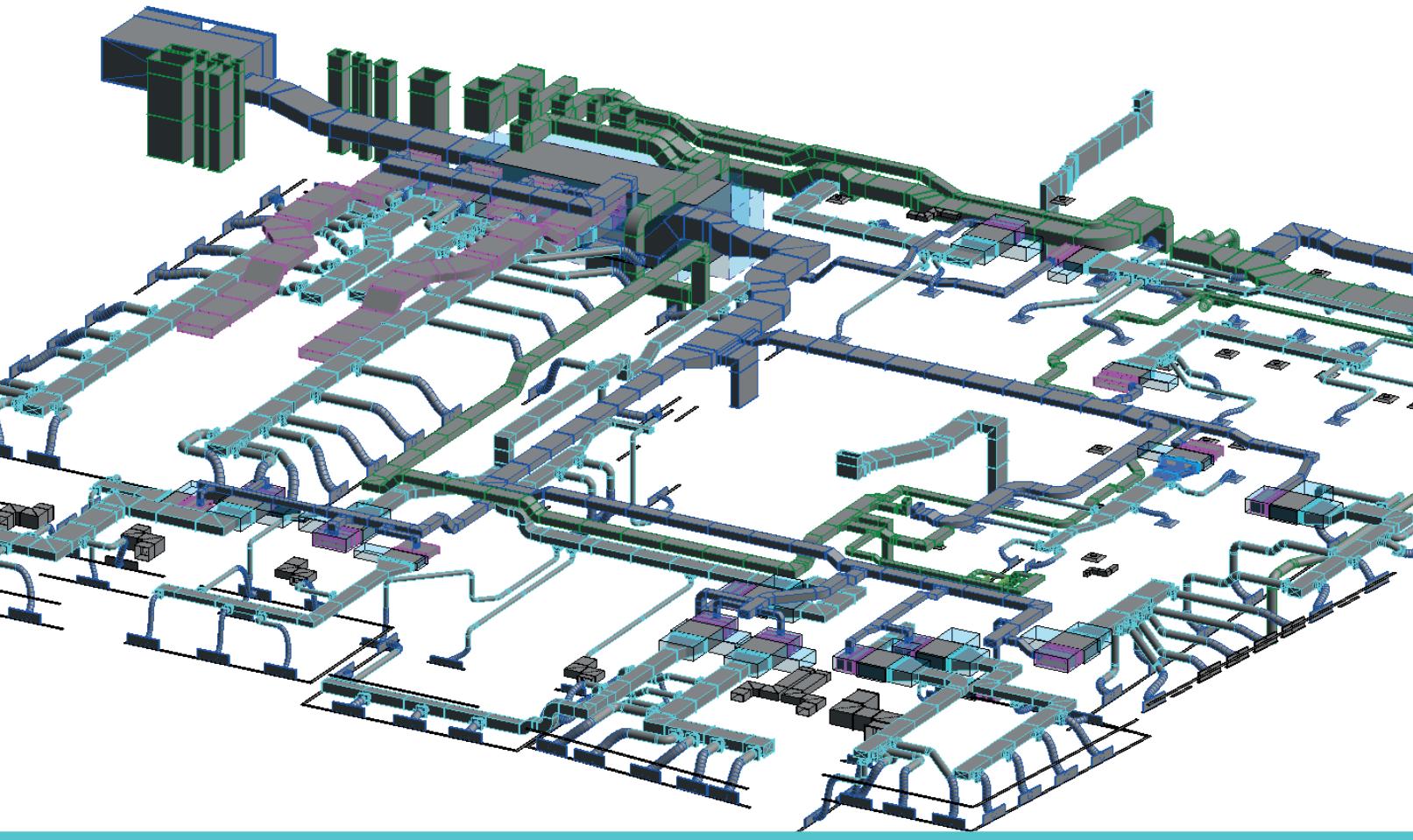
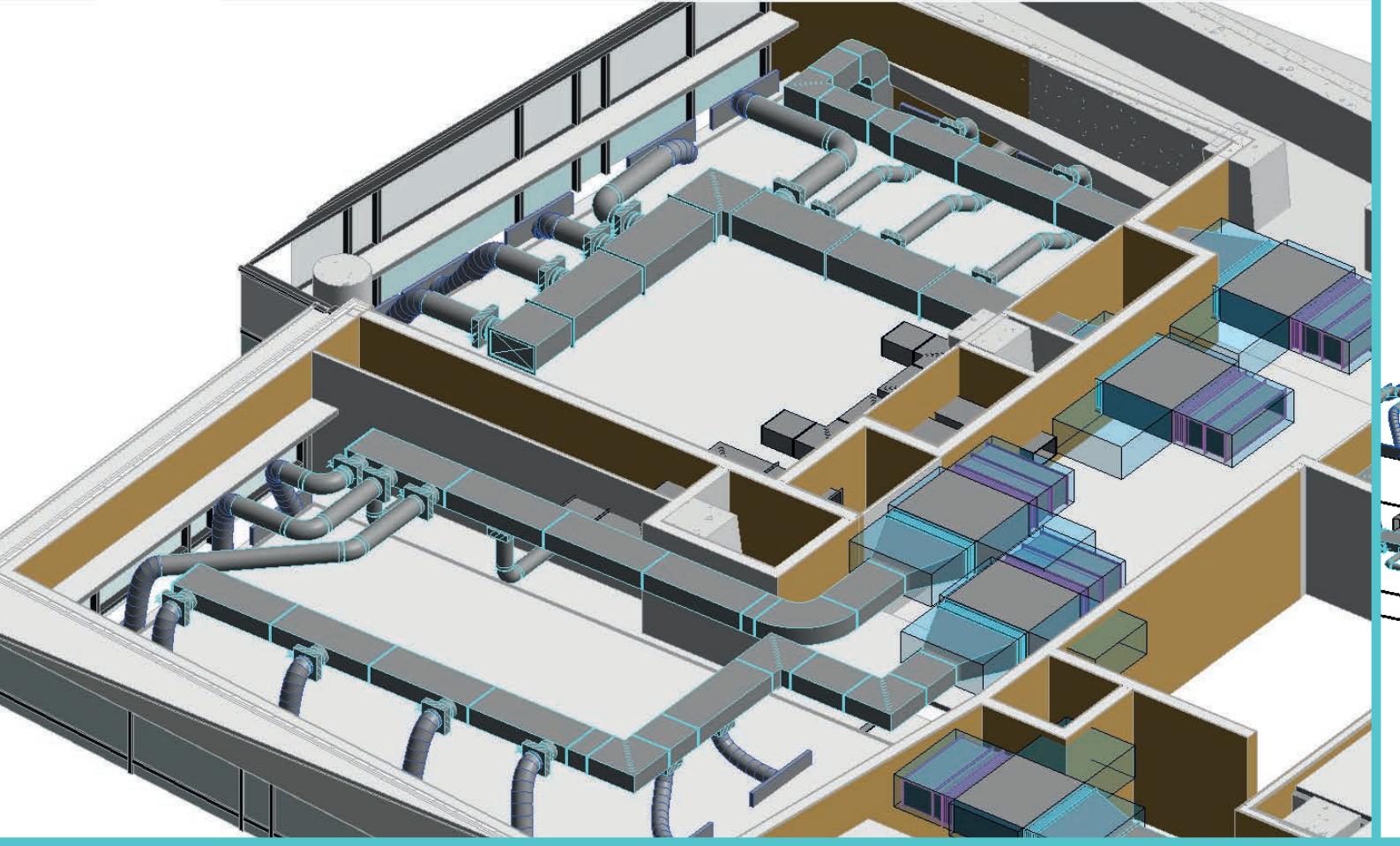
MODELING PROCESS

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

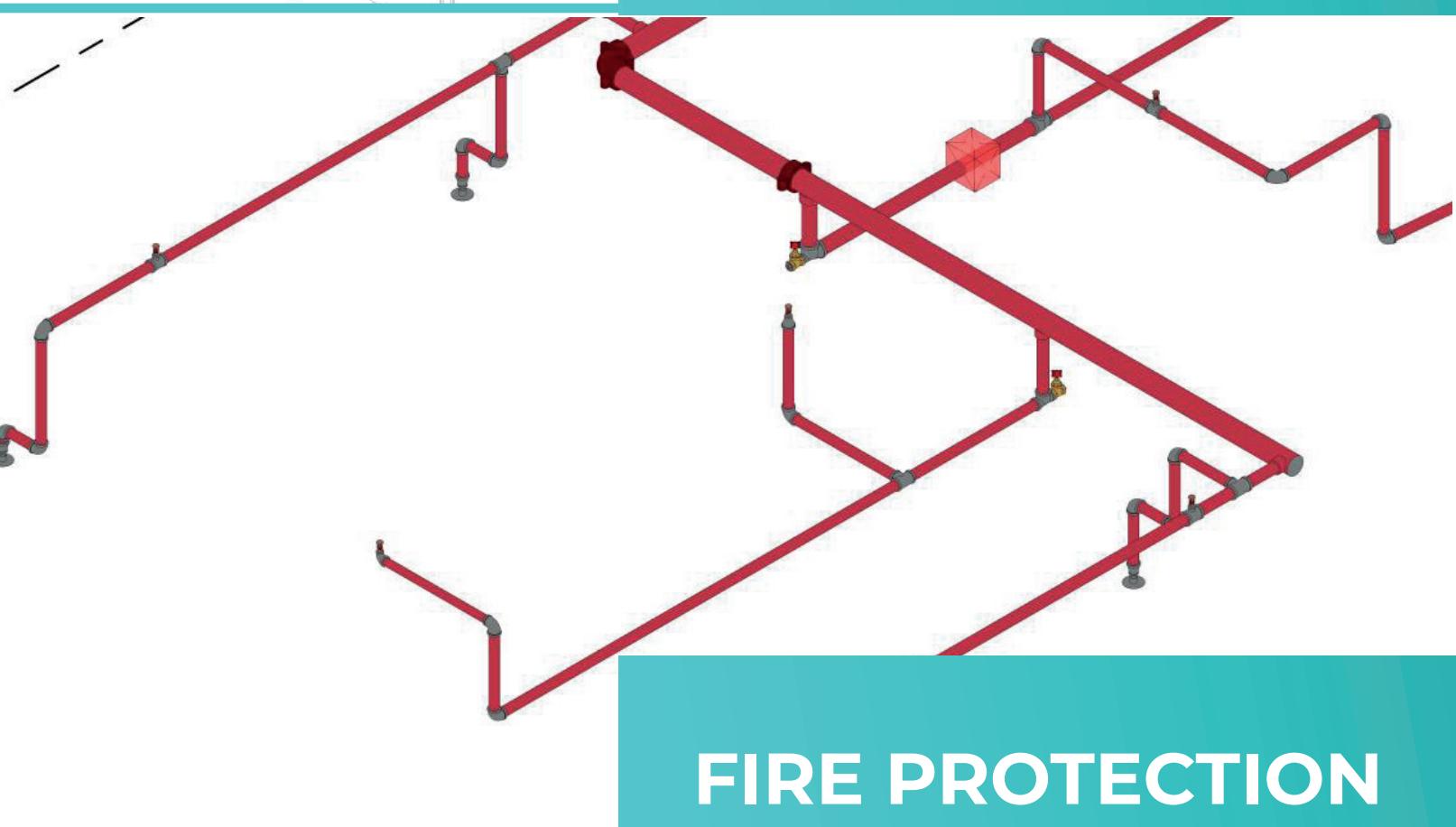
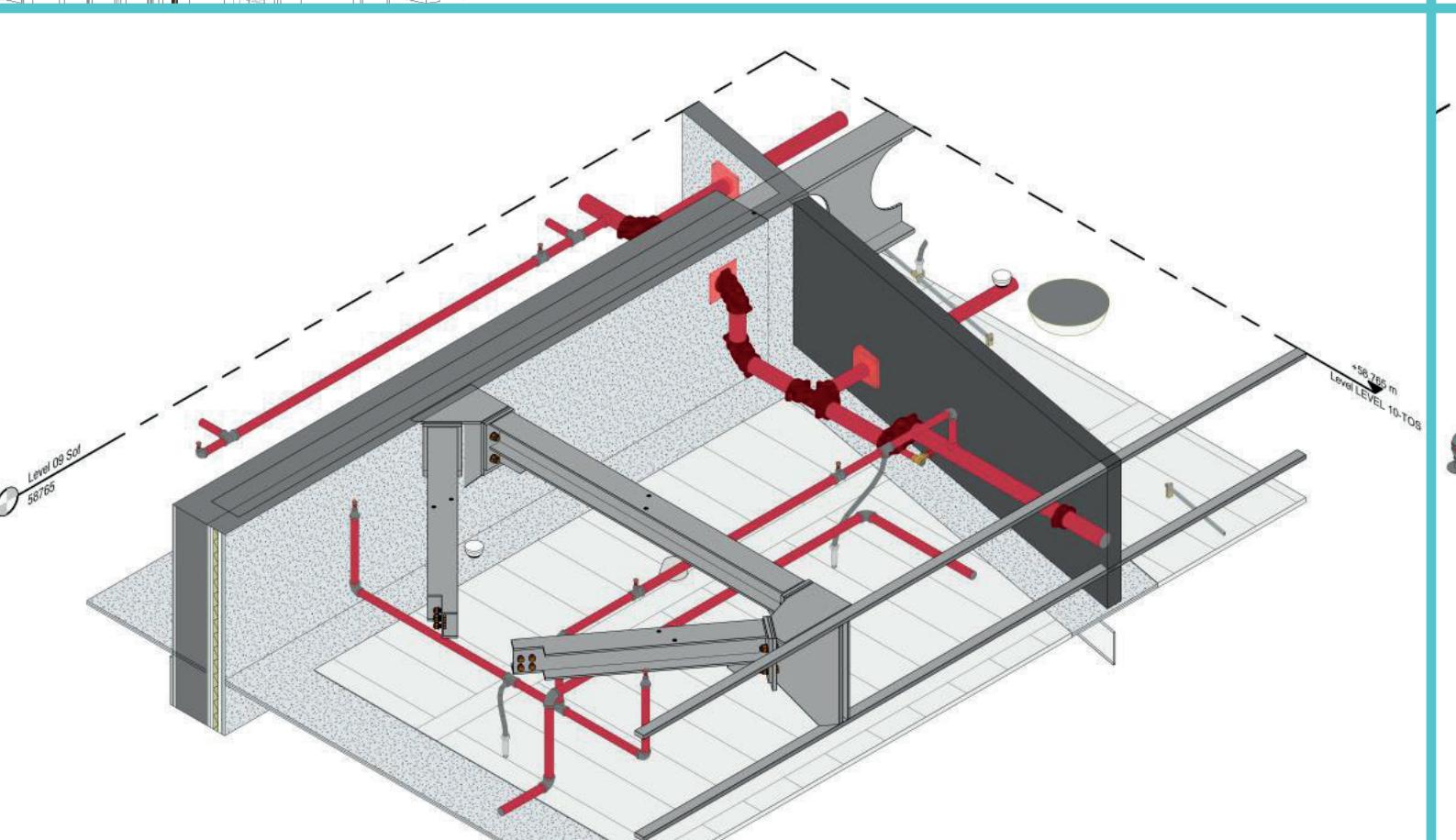


FABRICATION

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.



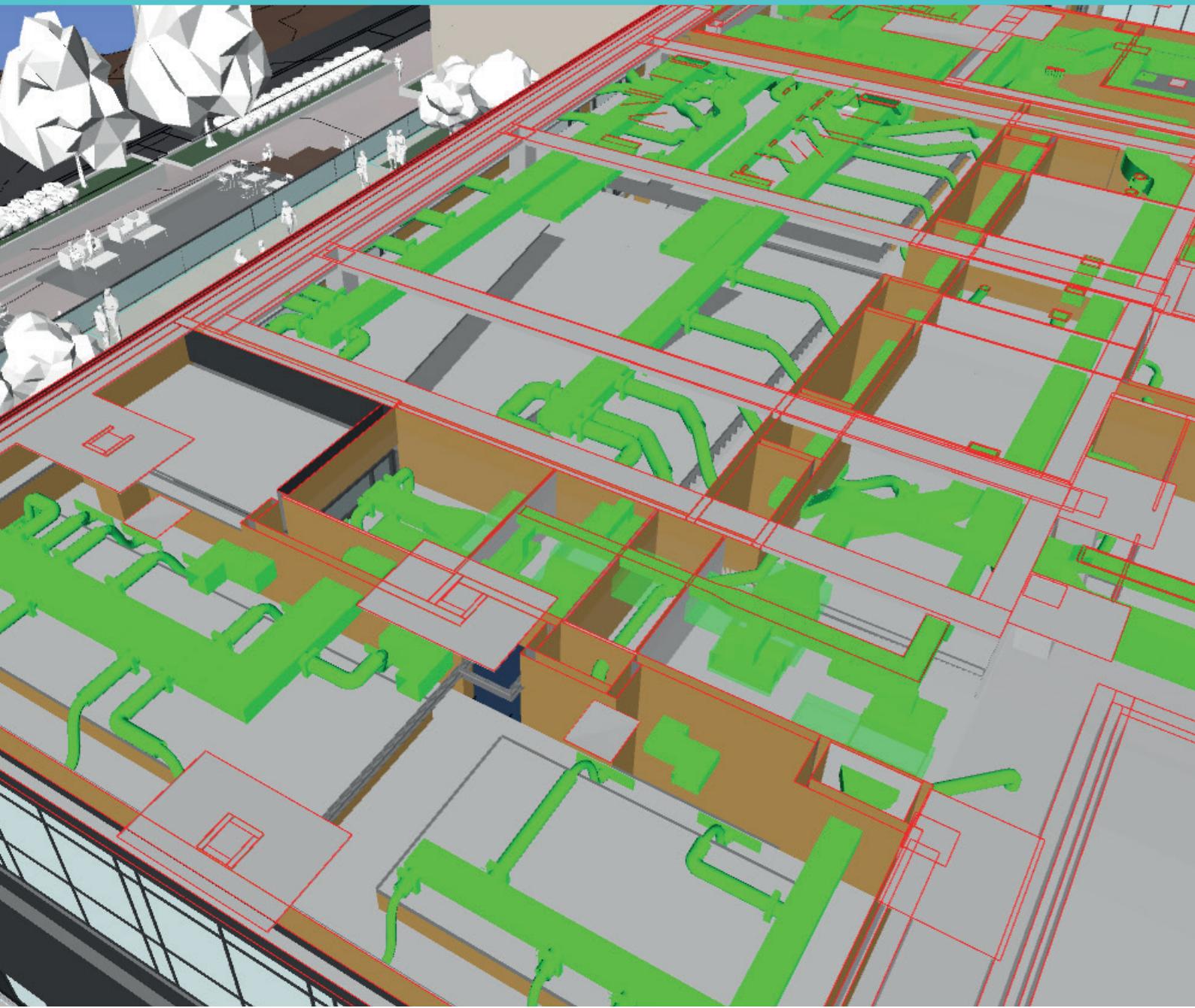
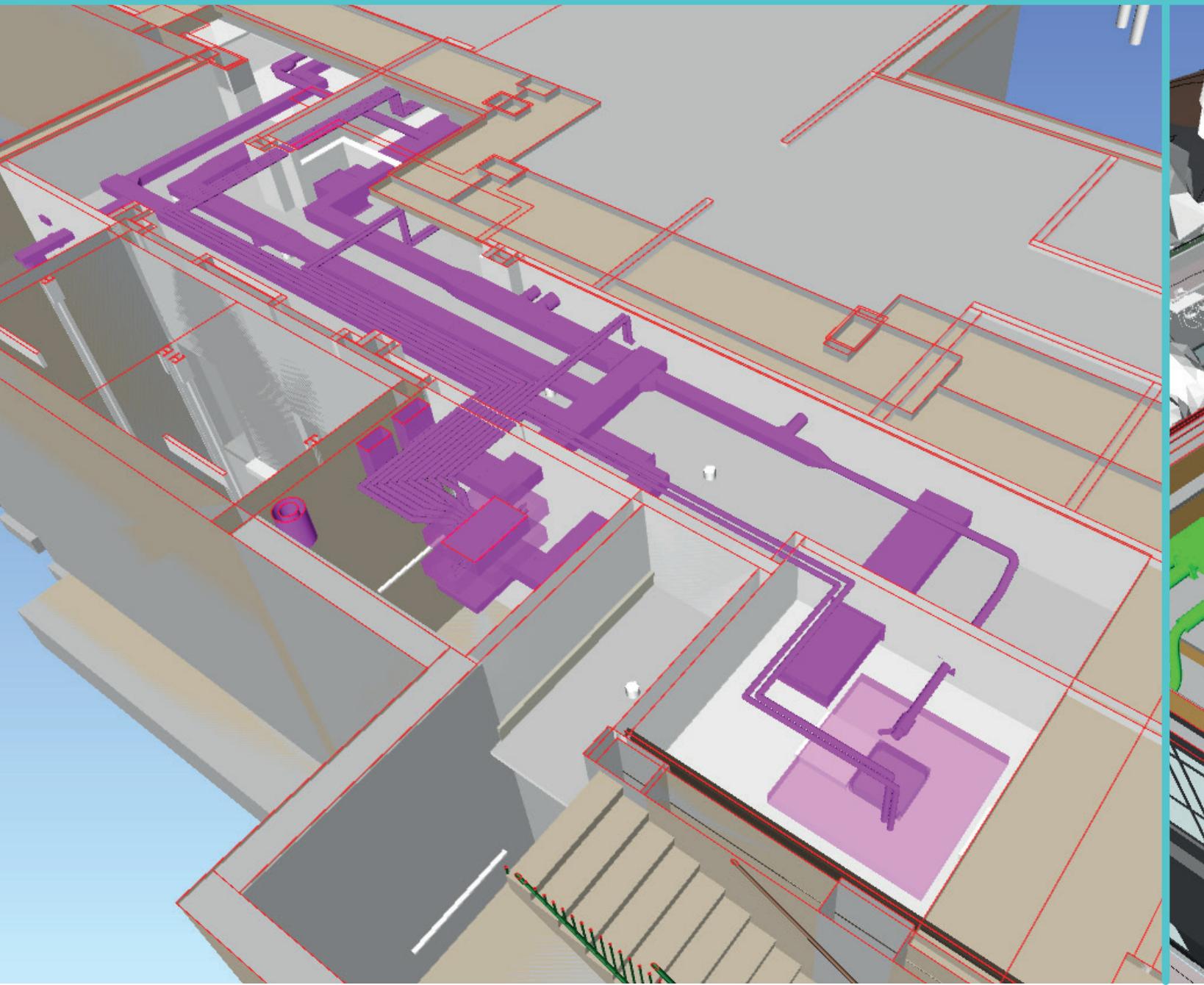
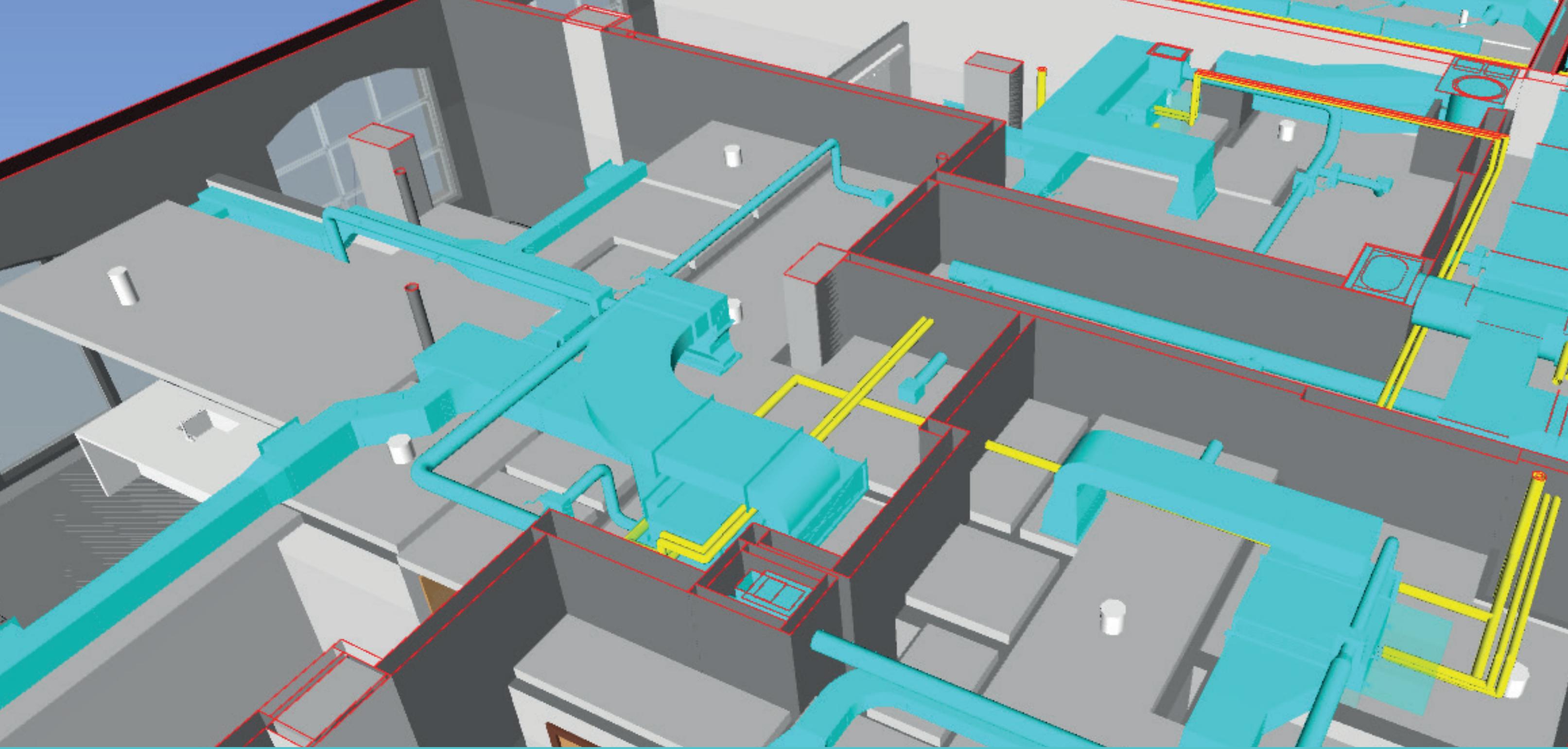
HVAC



FIRE PROTECTION

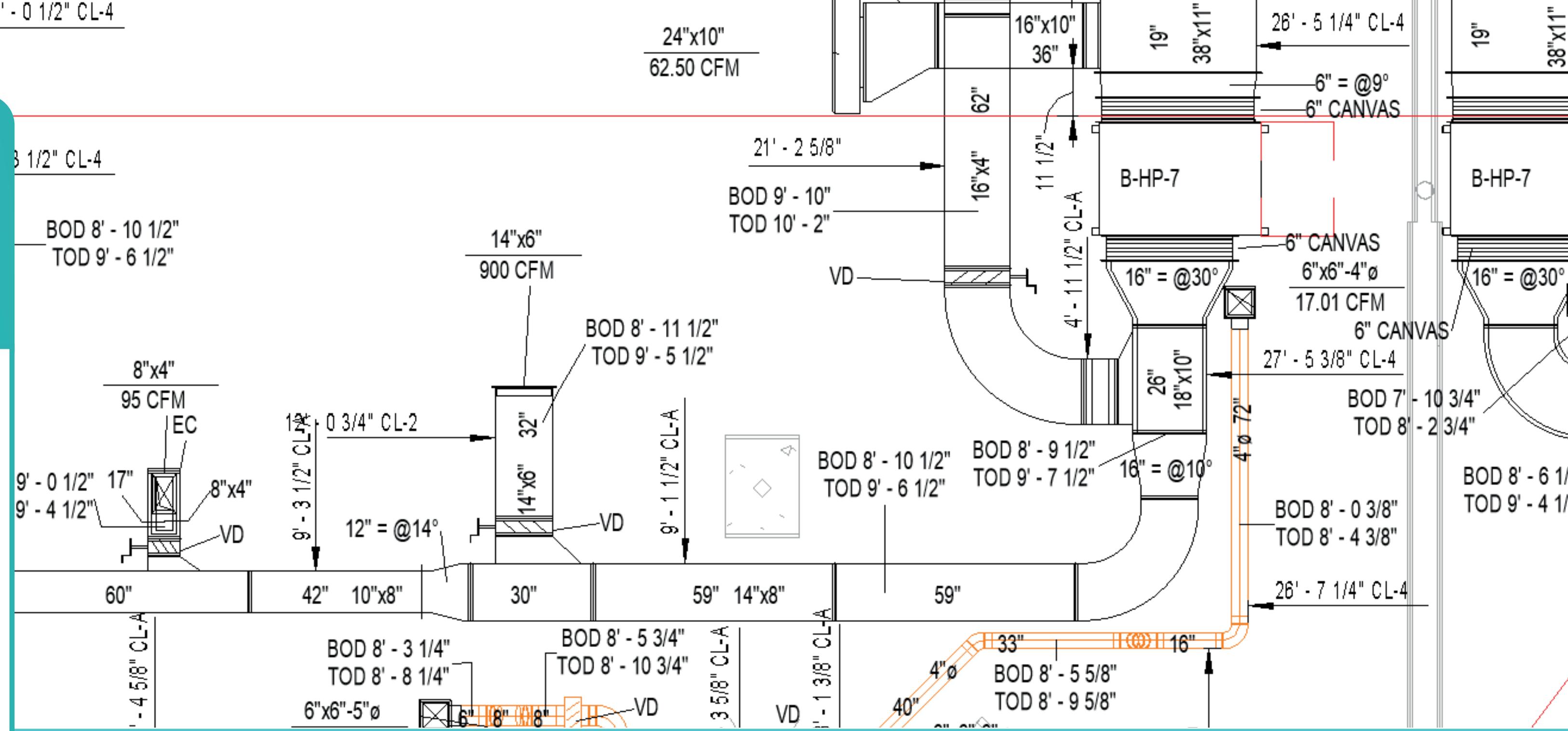
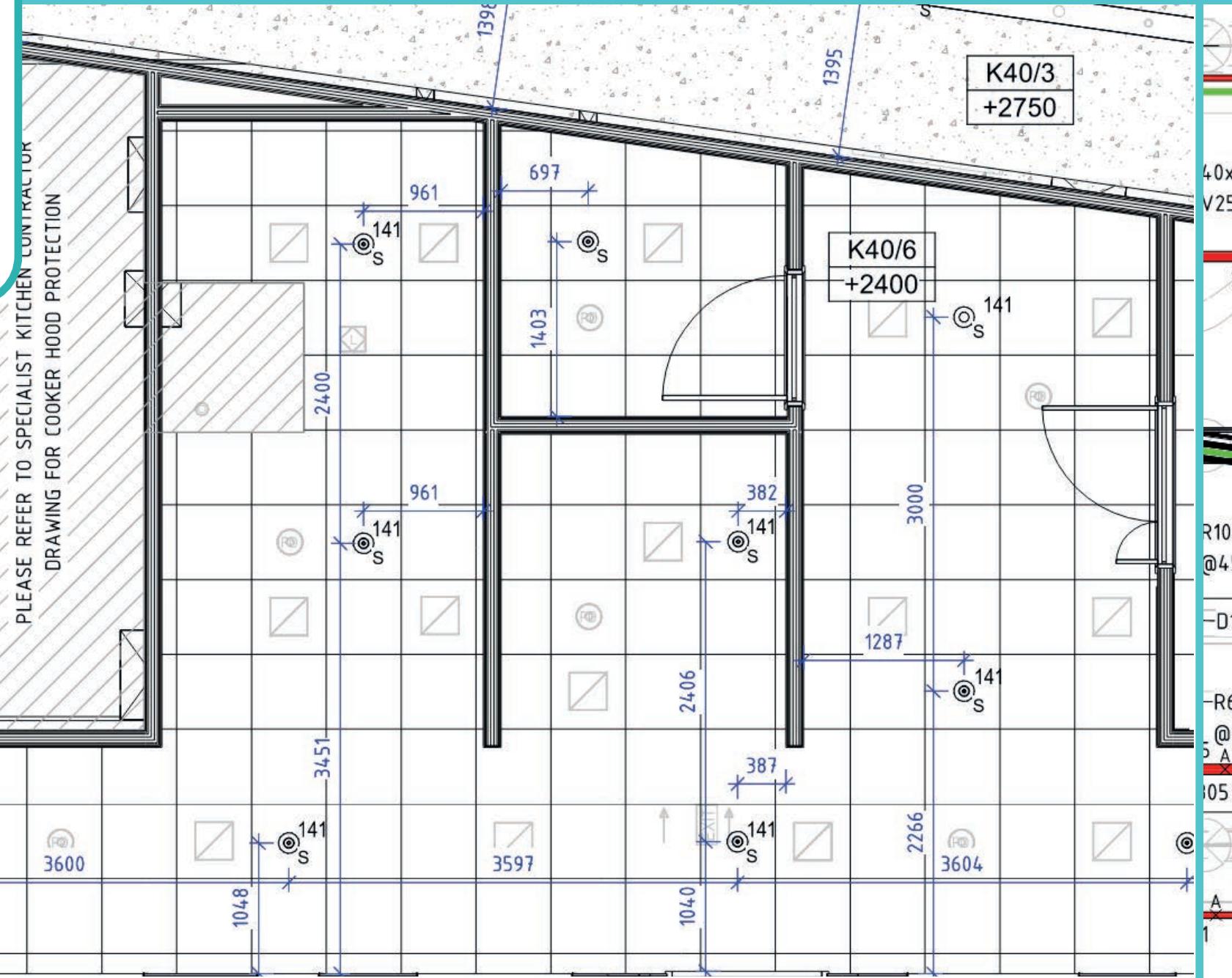
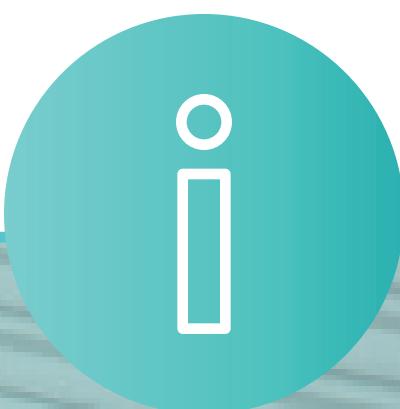
COORDINATION PROCESS

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 shows a CAD software interface for ductwork fabrication. On the left, a 3D model of a duct system is displayed, featuring various duct segments and fittings. A callout box points to a specific section of the duct, which is highlighted in blue. On the right, a table lists the components required for the spool, categorized by connector type and item number. Each row includes the component name, size, and quantity. Below the table, four detailed views of different spool types are shown, each with dimensions A, B, and C, and a list of connections (Con #1, Con #2, Con #3, Con #4) and seam details (S1 PITS-S).

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)

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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🌐 <http://bim-prove.com>