

BIBLIOTECA CIVICA CENTRALE

BIM MEP Coordinator

Project Type - Large Scale, Public Library..

Location - Torino, Italy.

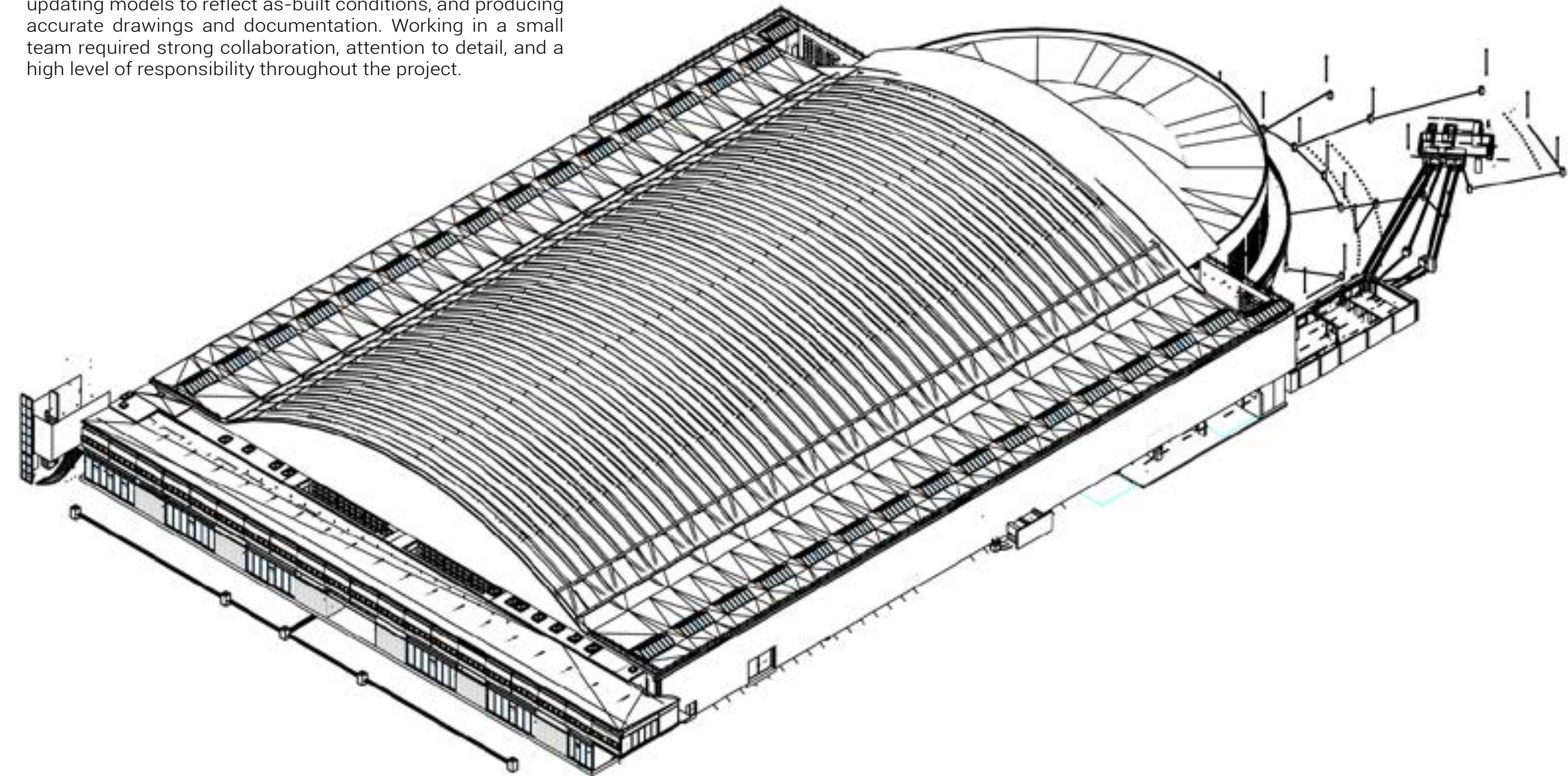


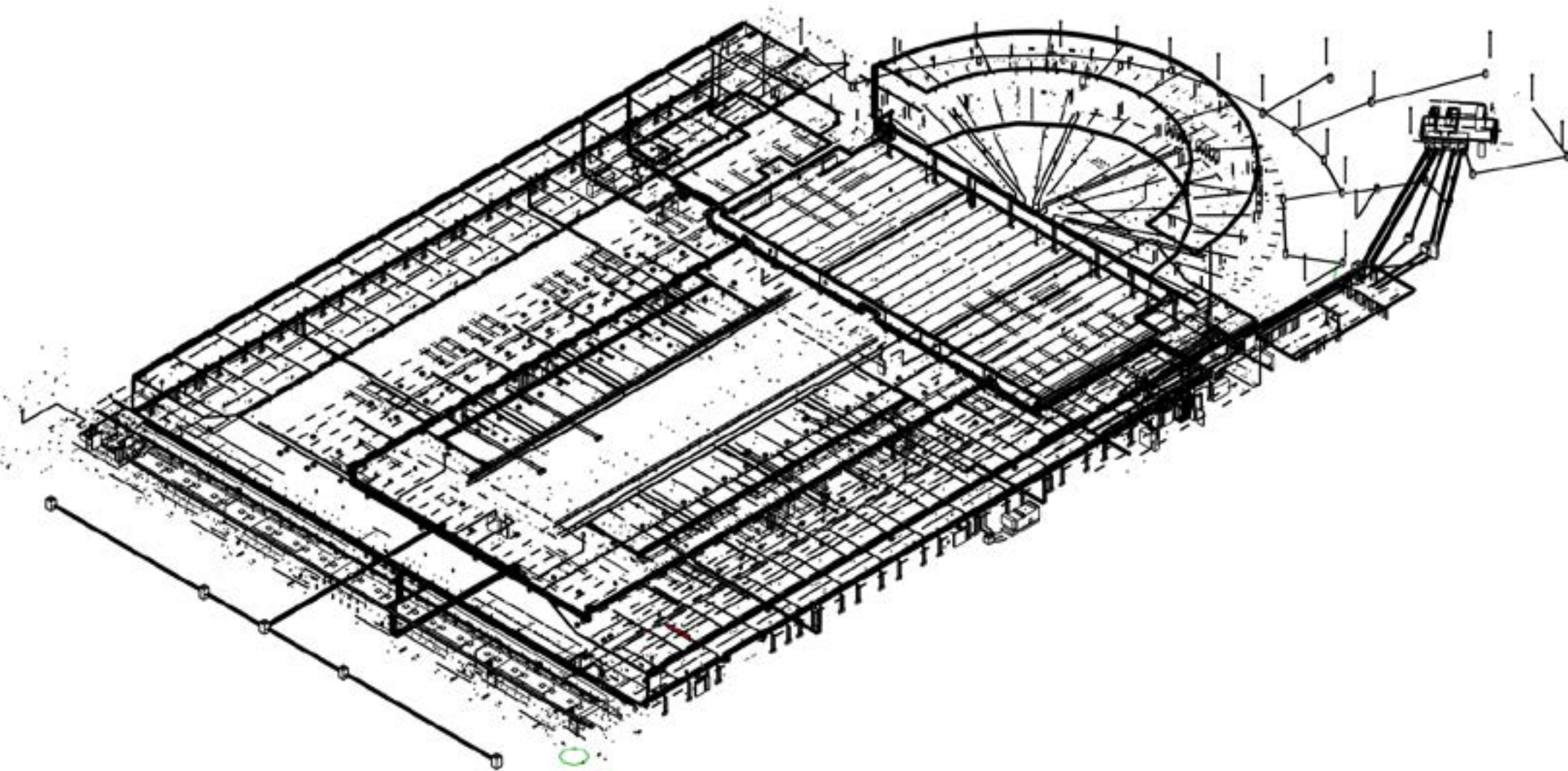
BIBLIOTECA CIVICA CENTRALE

PROJECT OVERVIEW

During the construction and as-built phases of this large-scale project, I was part of a two-person BIM team responsible for MEP modelling, coordination, and construction documentation. We worked closely with mechanical, electrical, and public health engineers to ensure that design revisions and site changes were accurately reflected in the BIM model.

My responsibilities included coordinating MEP systems with architectural and structural disciplines, resolving clashes, updating models to reflect as-built conditions, and producing accurate drawings and documentation. Working in a small team required strong collaboration, attention to detail, and a high level of responsibility throughout the project.





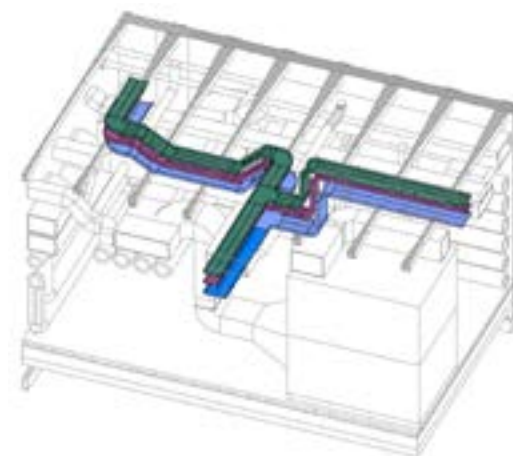
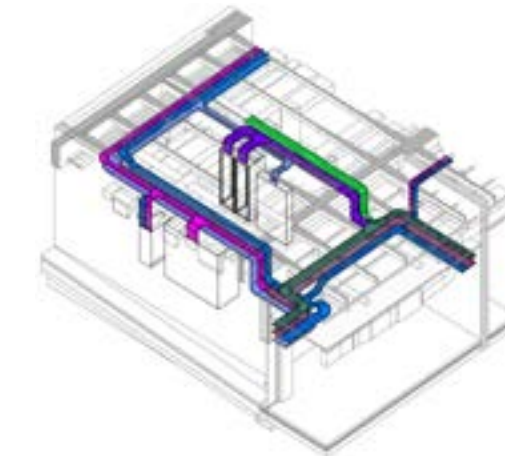
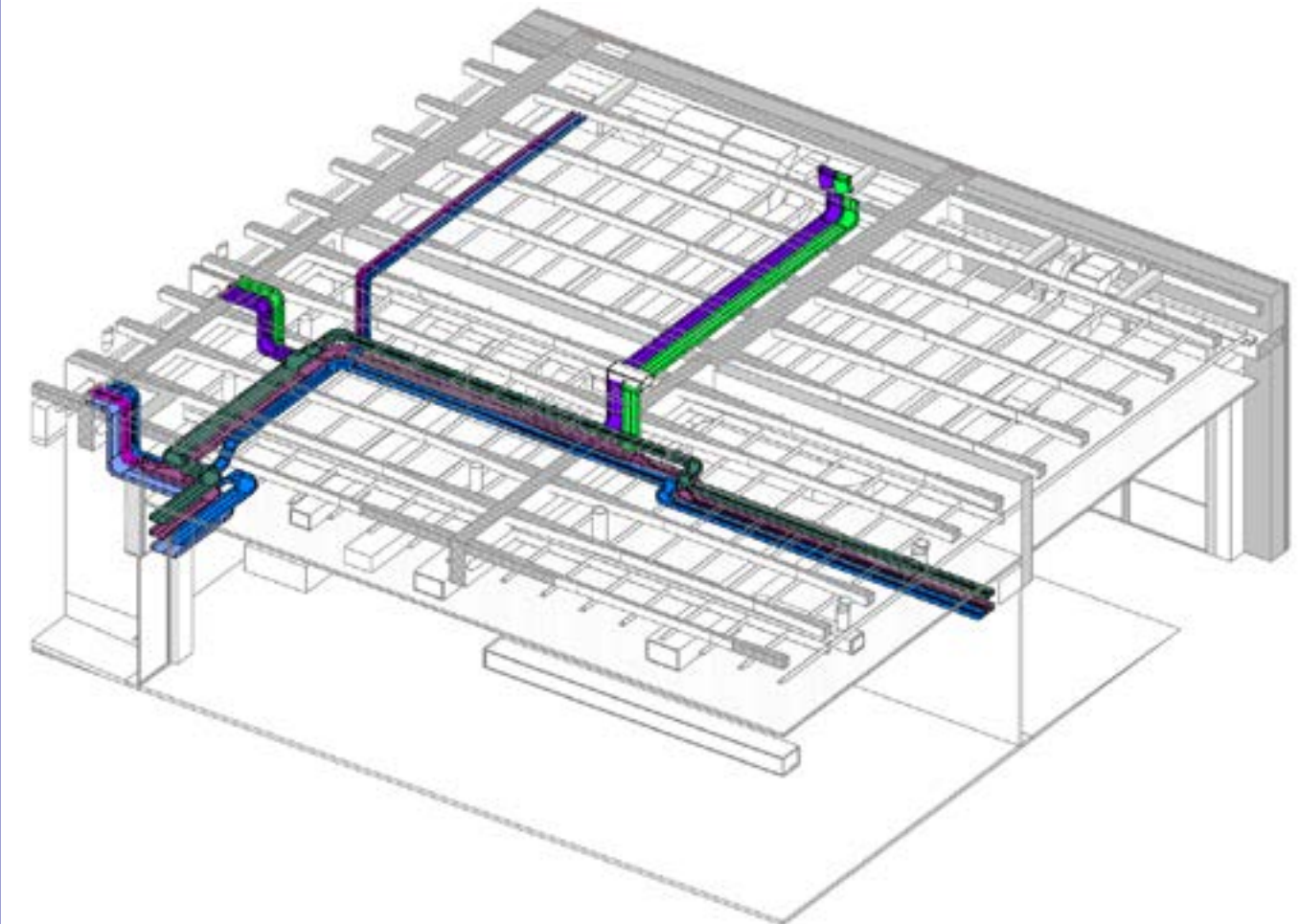
ELECTRICAL DISTRIBUTION

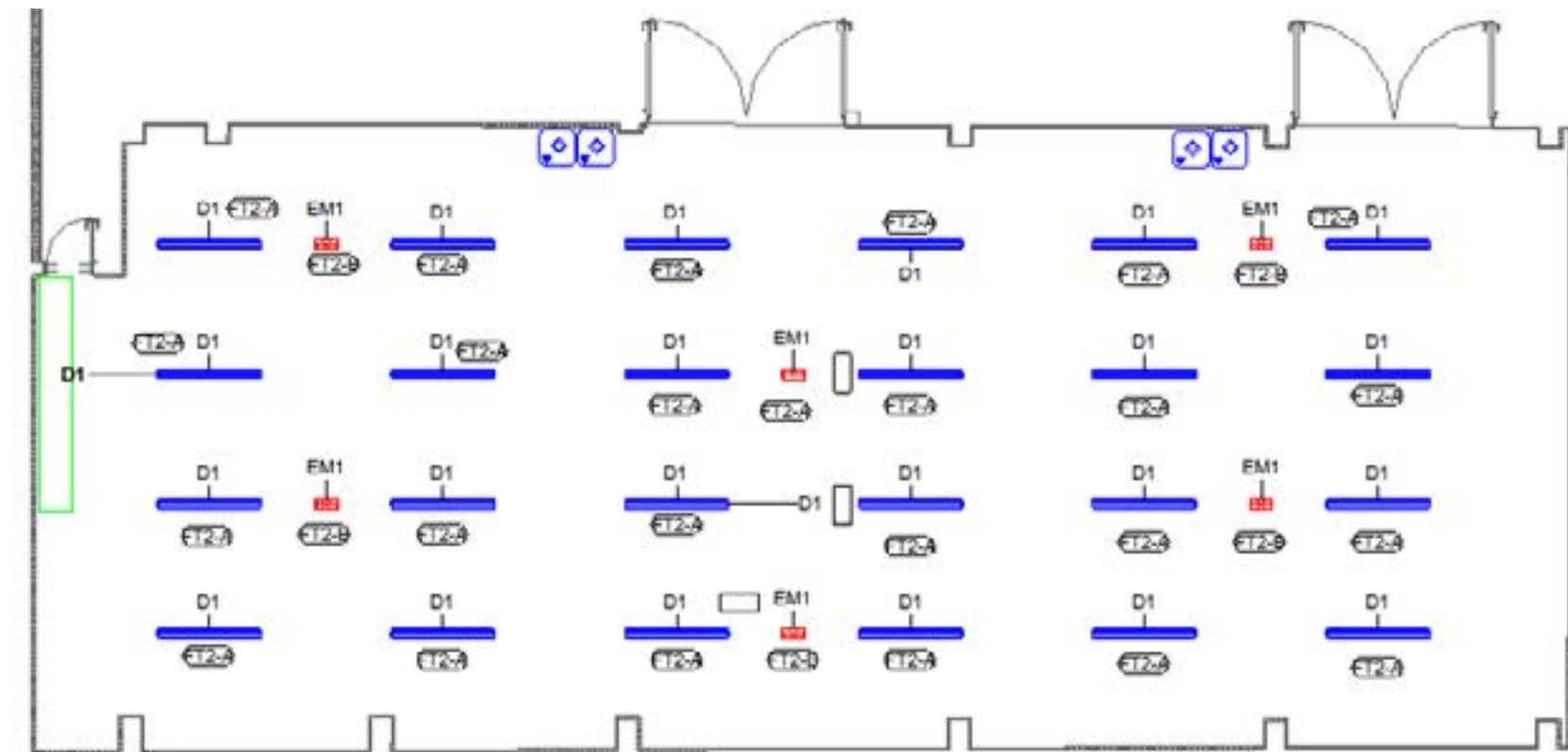
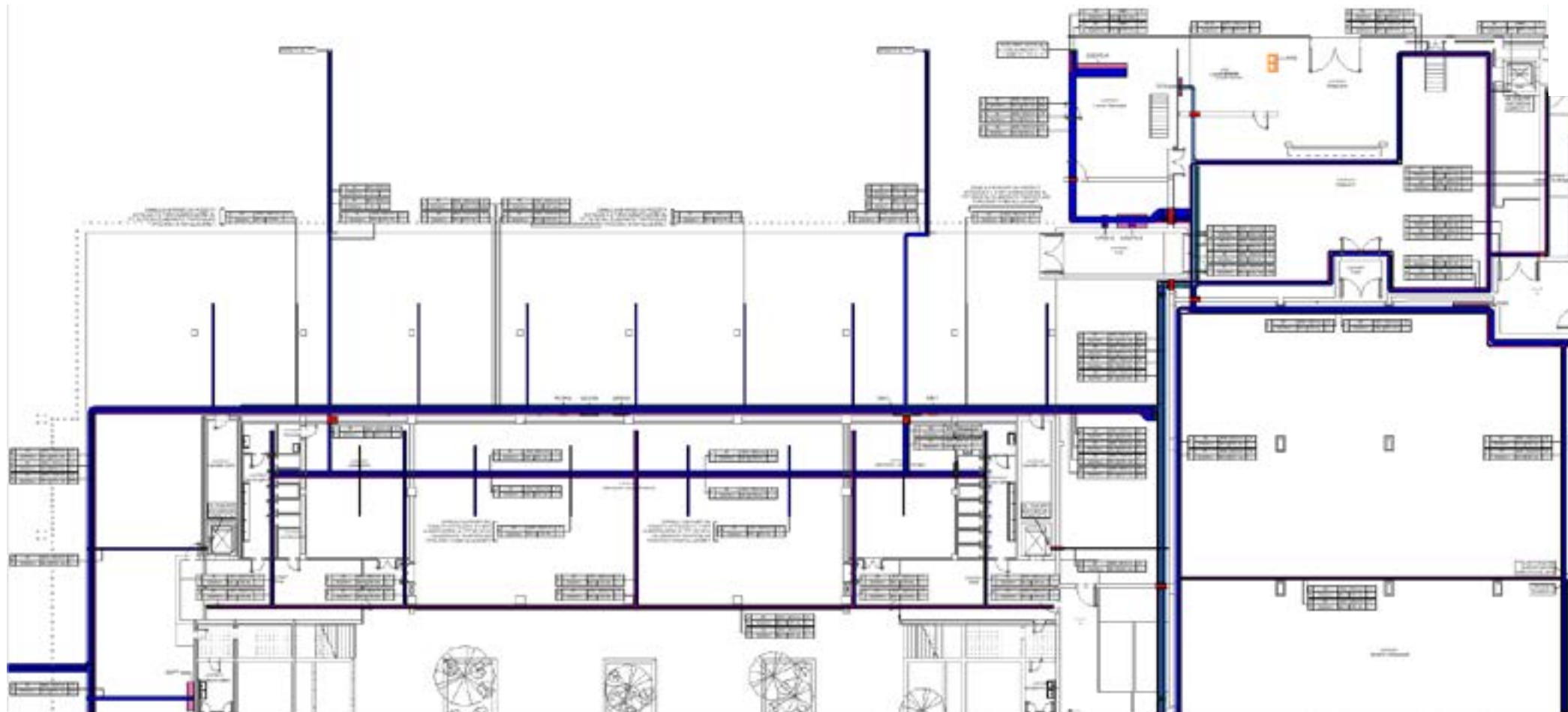
CABLE TRAYS, CONDUITS & BUS-BARS

I was responsible for the BIM modelling, coordination, and data management of various electrical systems throughout the construction and as-built phases of the project.

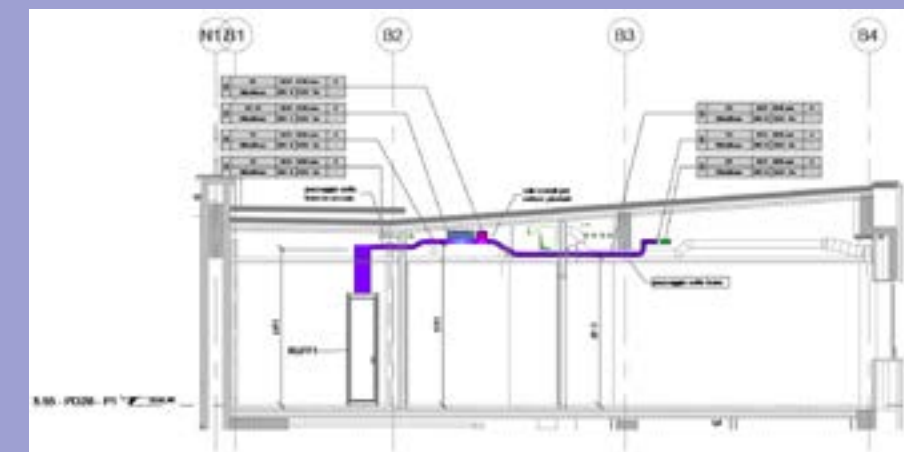
This included accurately modelling electrical components, managing parameters and associated information, and ensuring consistency and reliability of data within the BIM environment.

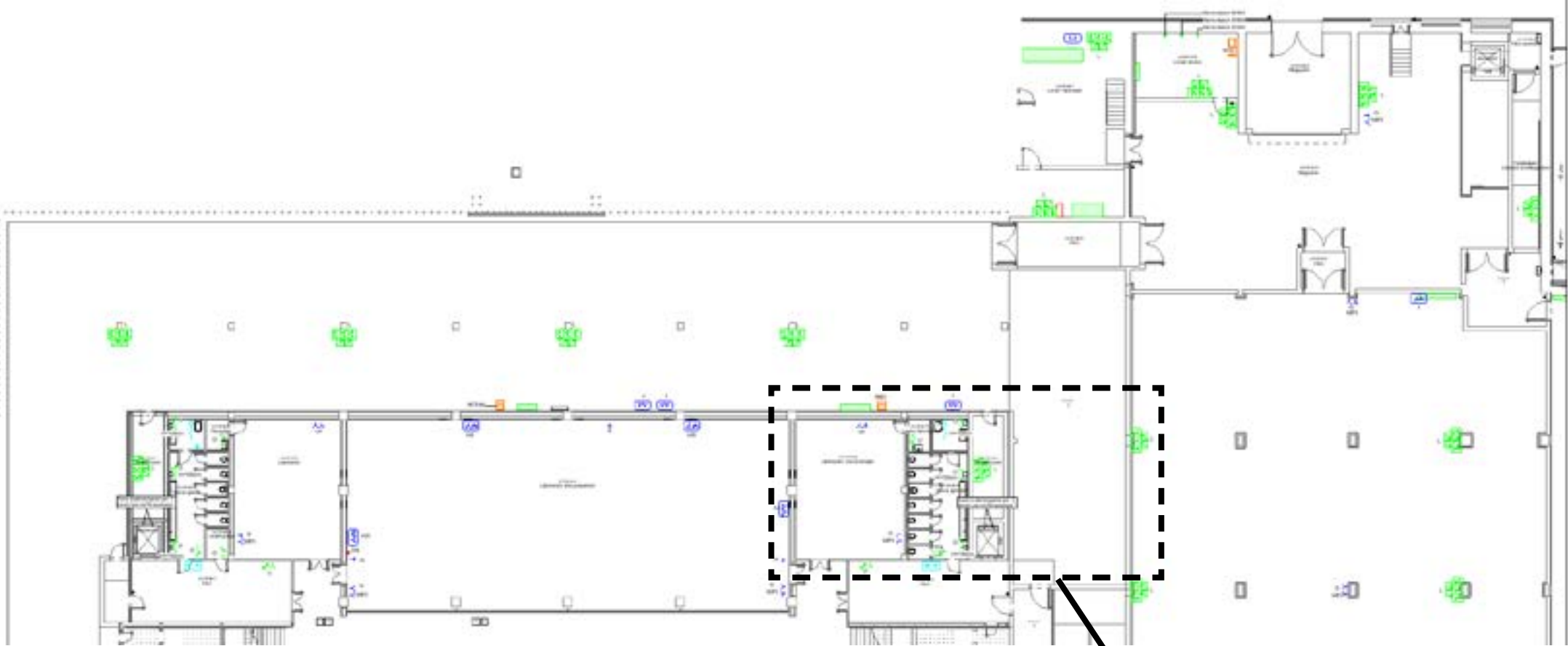
I worked closely with engineers and other disciplines to coordinate a range of electrical systems, including power distribution, lighting, security, and specialist systems, ensuring accurate integration and representation within the final BIM model.





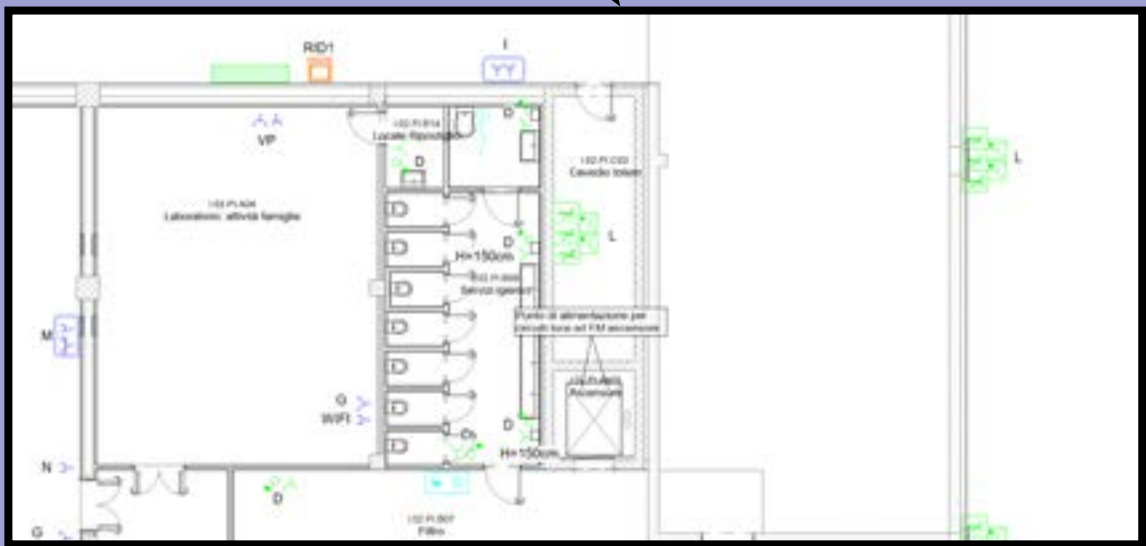
LIGHTING FIXTURES IN THERMAL PLANT ROOM





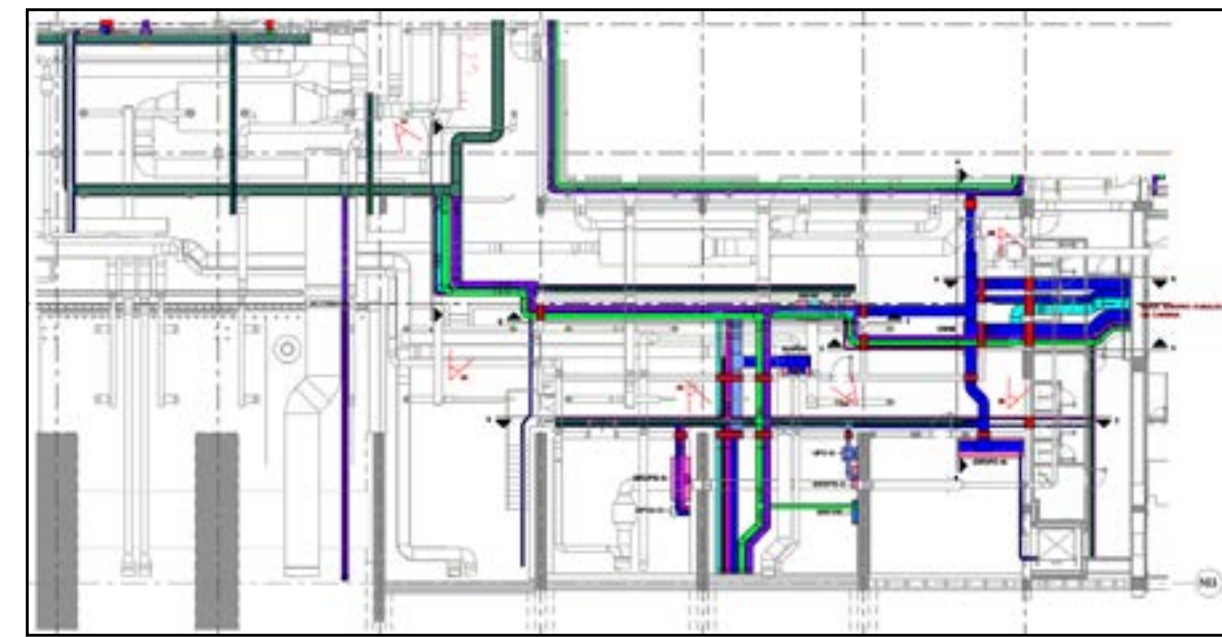
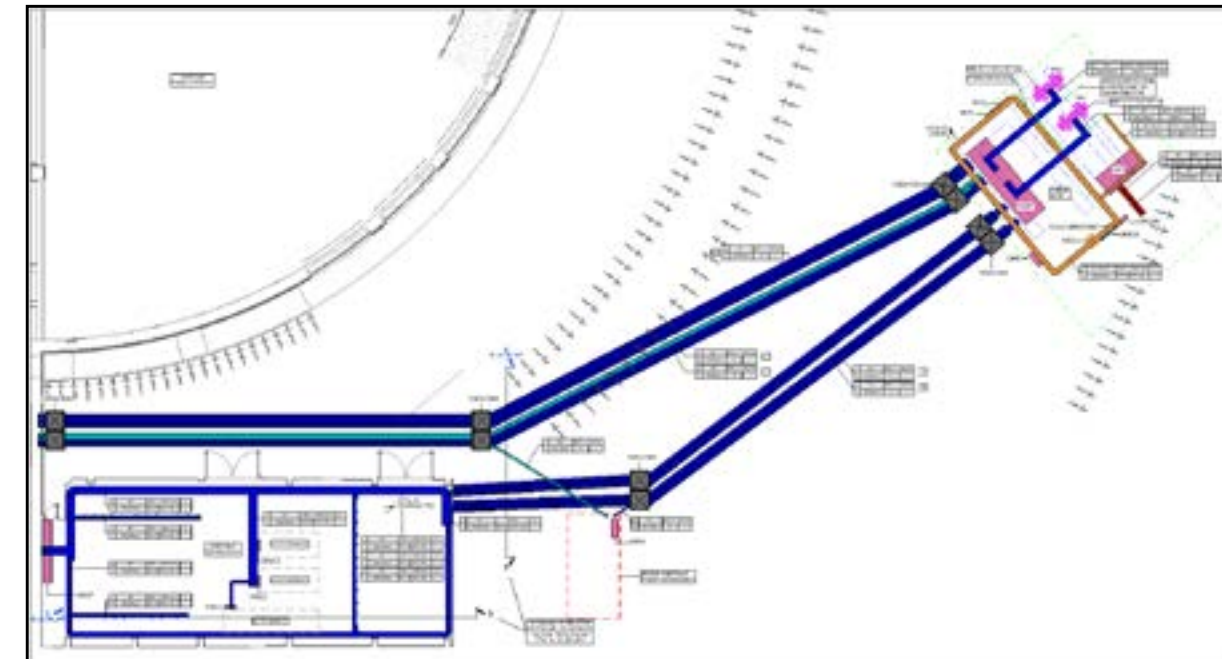
As part of the electrical modelling scope, I developed detailed BIM models for a wide range of electrical devices, including switches, power outlets, data points, and specialist electrical accessories. I was responsible for assigning and managing component parameters, ensuring accurate classification, connectivity, and information exchange.

The work involved coordinating device locations with architectural finishes, furniture, and other building services while considering accessibility. Different electrical systems, including power distribution, communication networks, and specialist systems, were integrated into the coordinated model to support construction delivery and the production of reliable as-built documentation.



ELECTRICAL DISTRIBUTION

LOW TENSION, DATA, SPECIALIST SYSTEMS

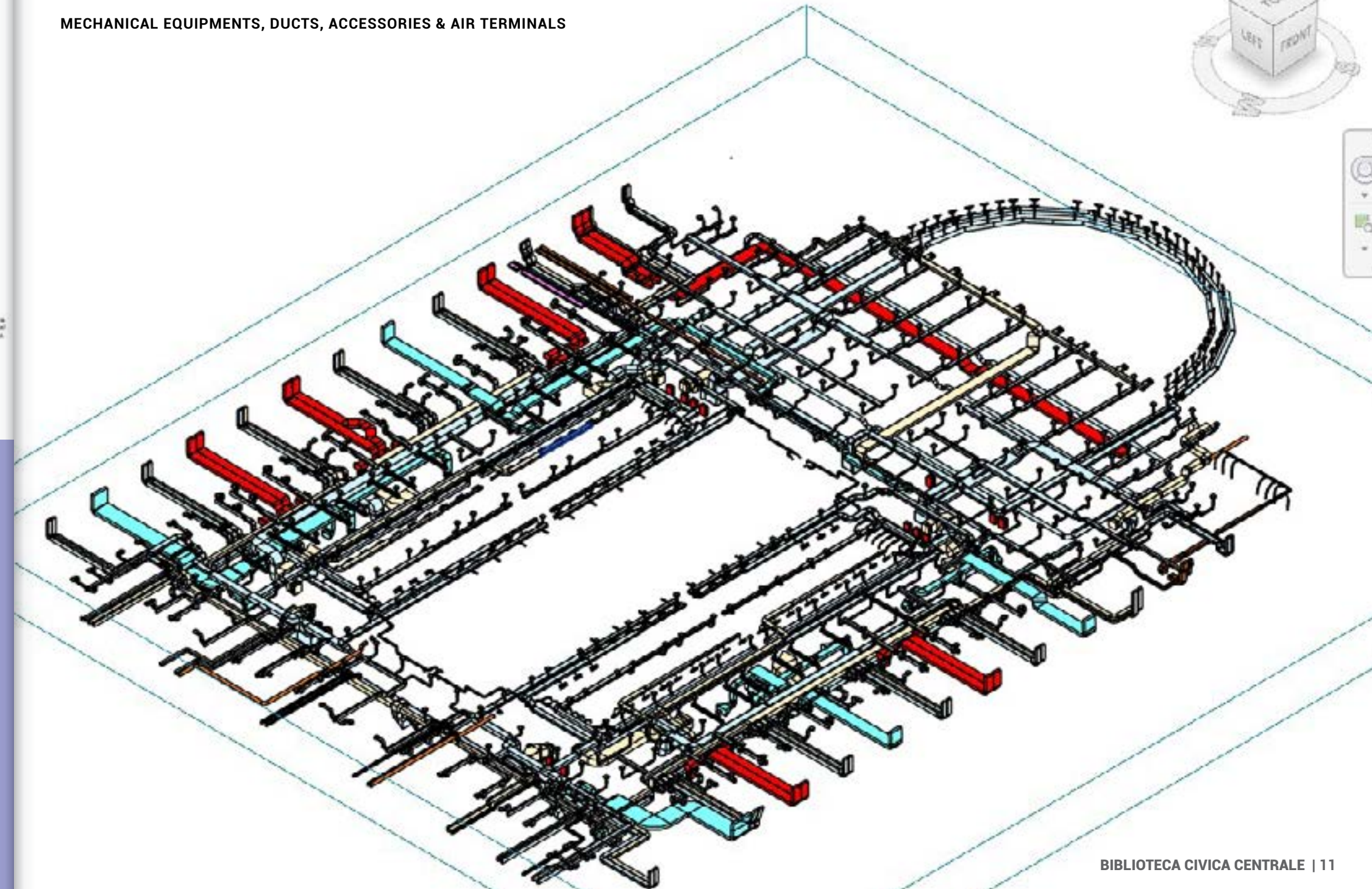


MECHANICAL EQUIPMENTS, DUCTS, ACCESSORIES & AIR TERMINALS



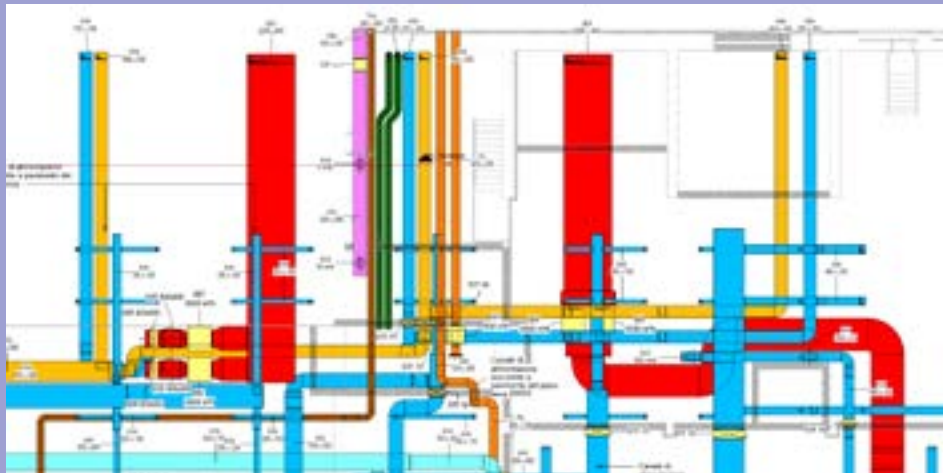
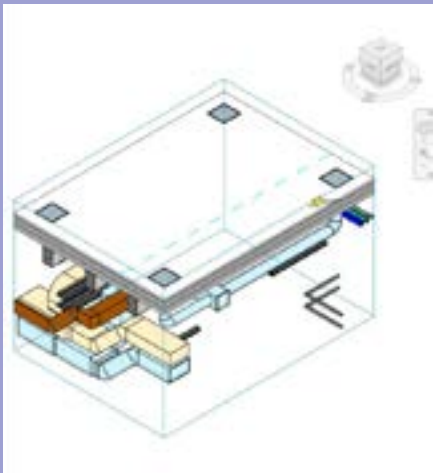
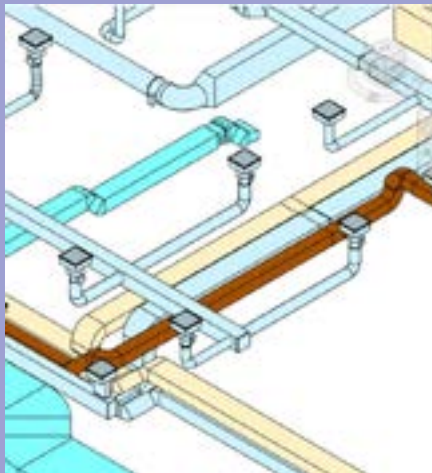
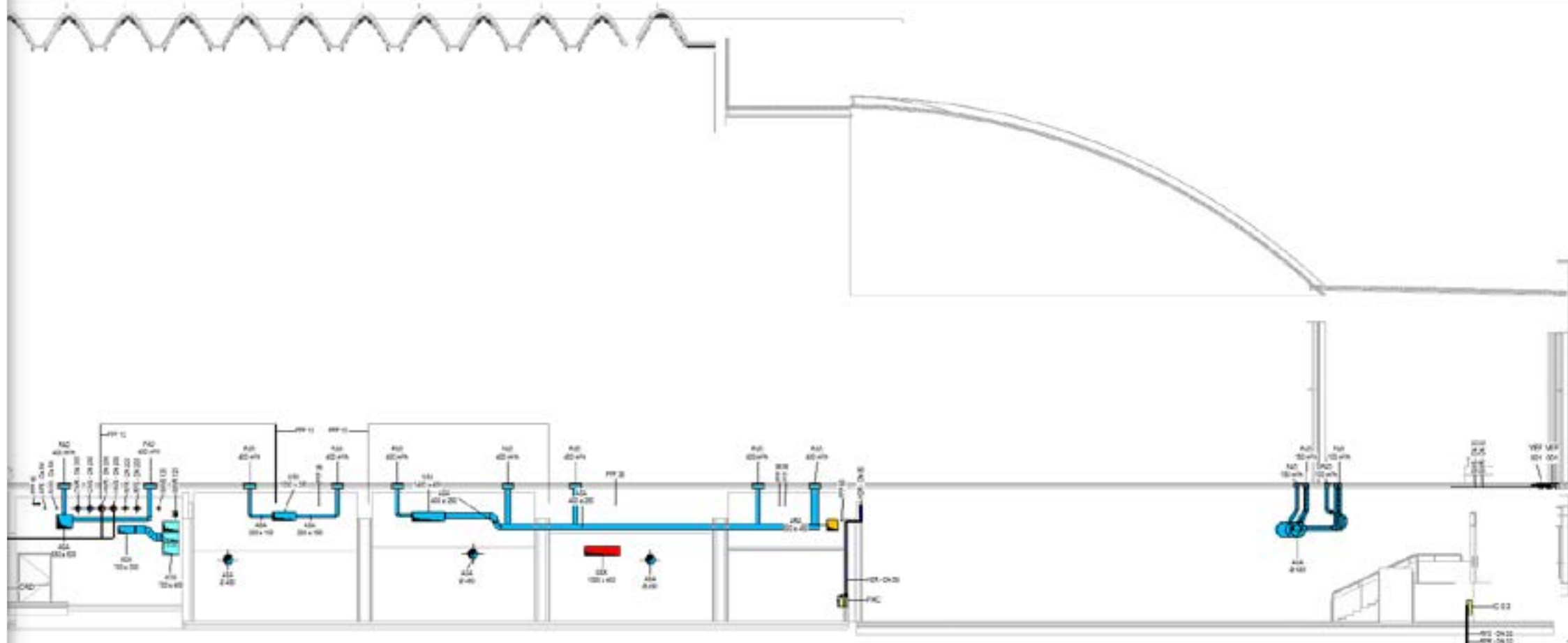
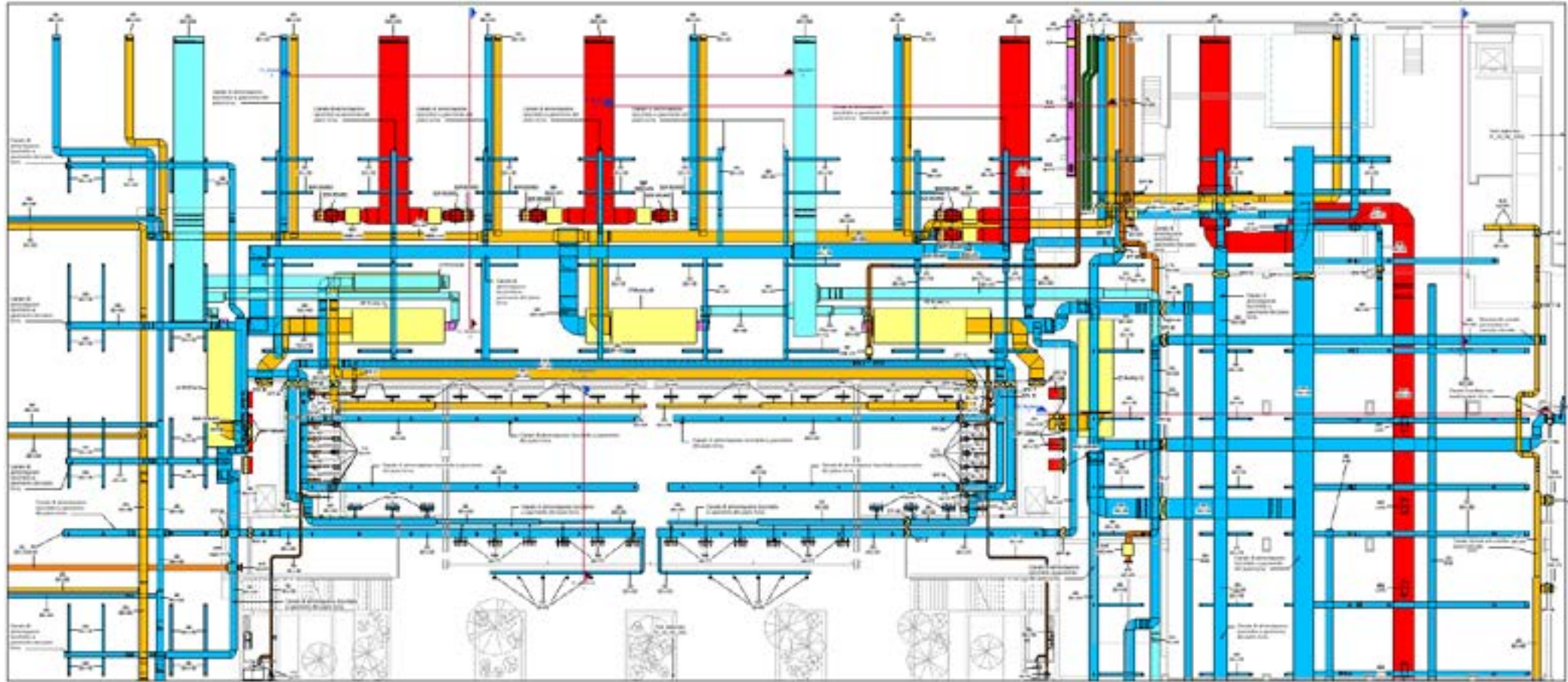
Technical drawing of a drainage system layout. The drawing shows a network of blue lines representing canals and manholes. Key components labeled include:

- Canali di alimentazione bocchette a pavimento del piano terra:** Two horizontal canals at the top.
- Manholes (ASA):** Various sizes including ASA 300 x 400, ASA 300 x 300, ASA 400 x 300, ASA 300 x 200, ASA 600 x 300, ASA 800 x 300, and ASA 200 x 200.
- Valves (VVR):** VVR 100 m/h and VVR 150 m/h.
- Check valves (RSS):** RSS 300 m/h.
- Structural Elements (STF):** STF 25, STF 26, STF 27, and STF 28.
- Other components:** TEA 100 x 150, TEA 150 x 150, and NAO 100 m/h.



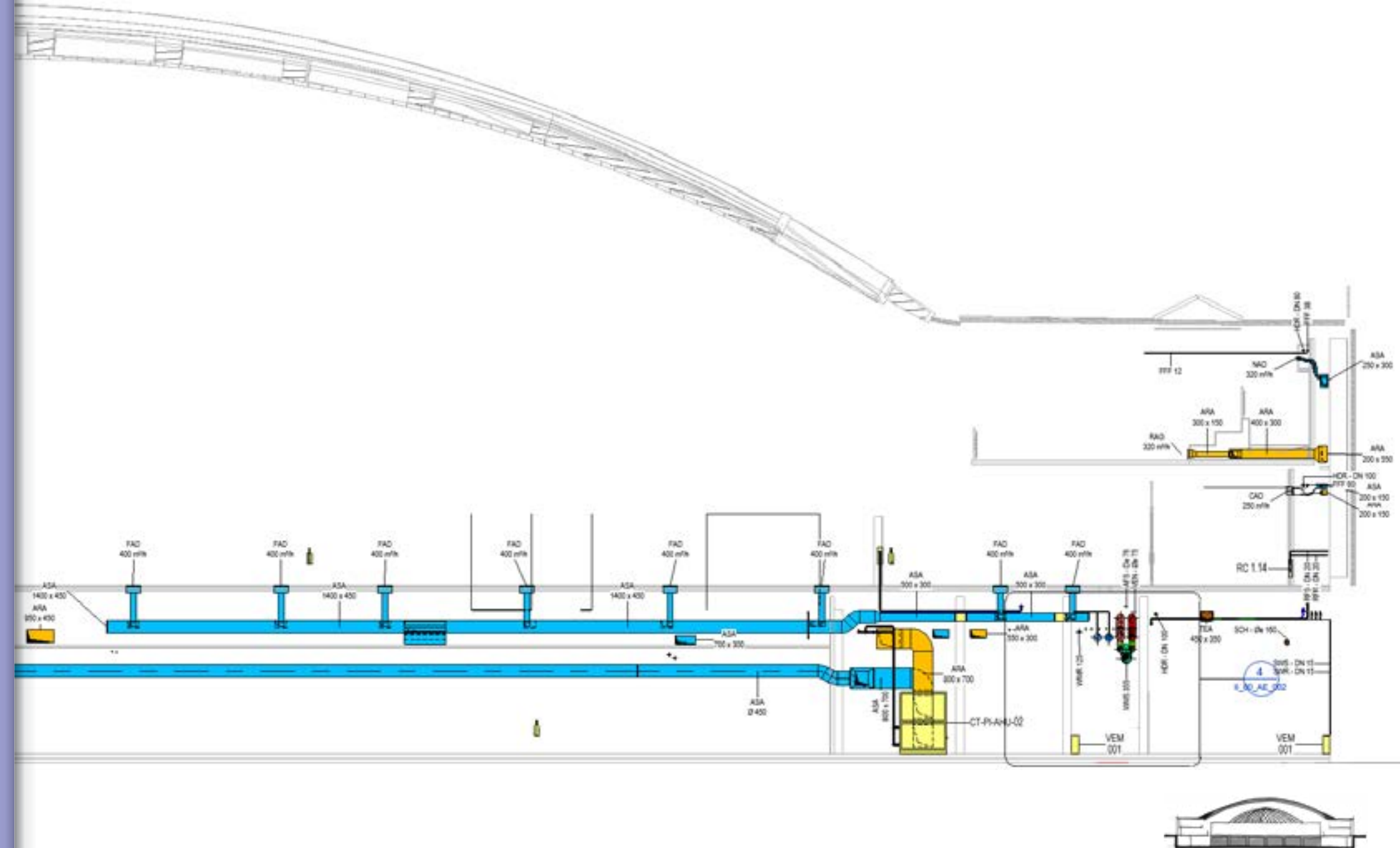
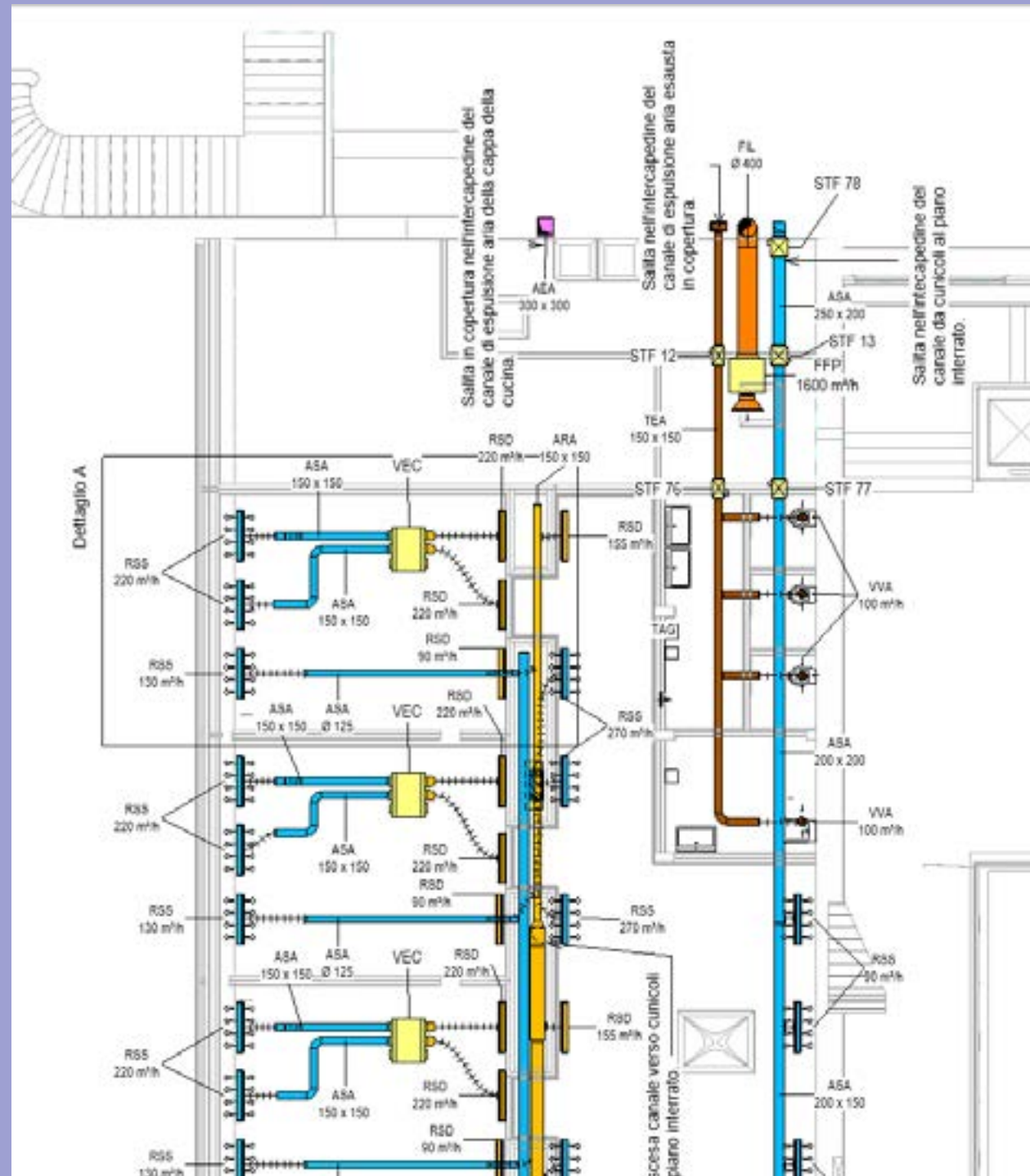
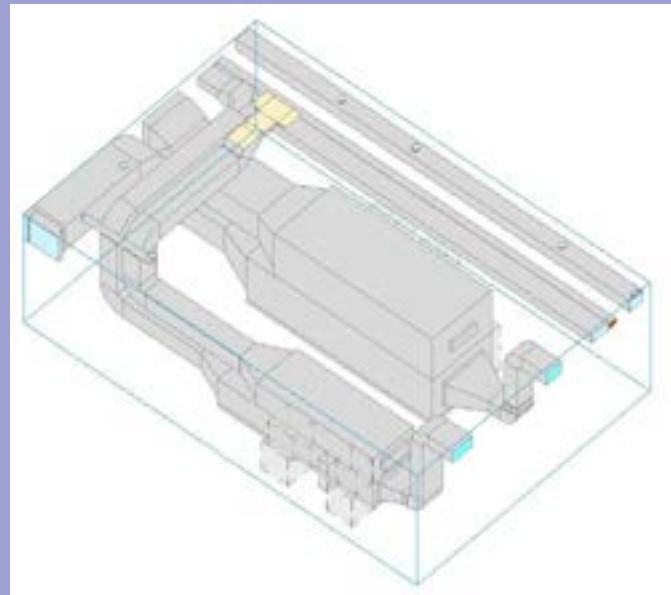
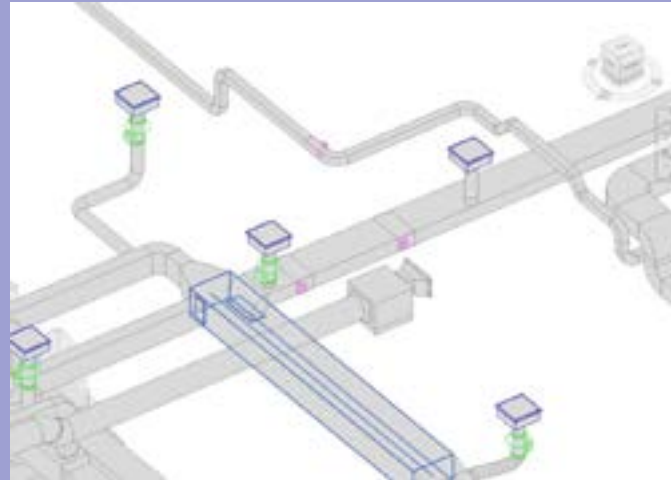
AIR SYSTEMS

SUPPLY AIR, RETURN AIR, EXHAUST AIR, OUTDOOR AIR, SMOKE EXTRACTION & EXTRACT AIR



AIR SYSTEMS

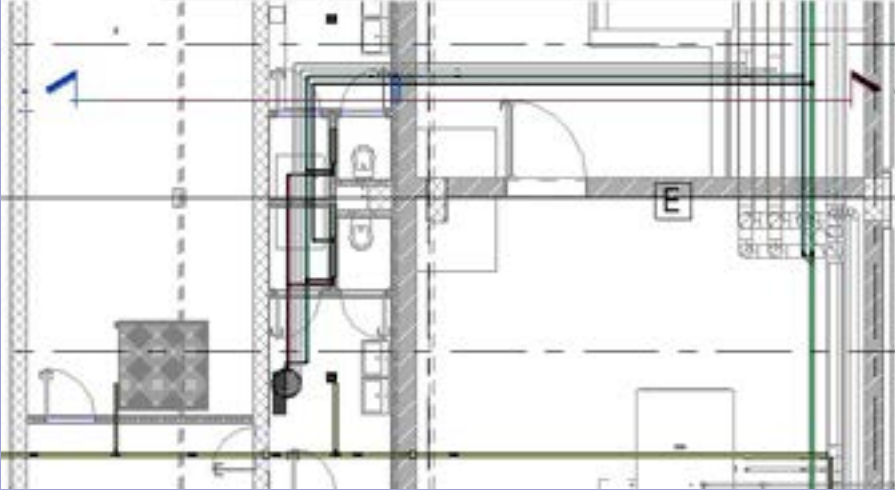
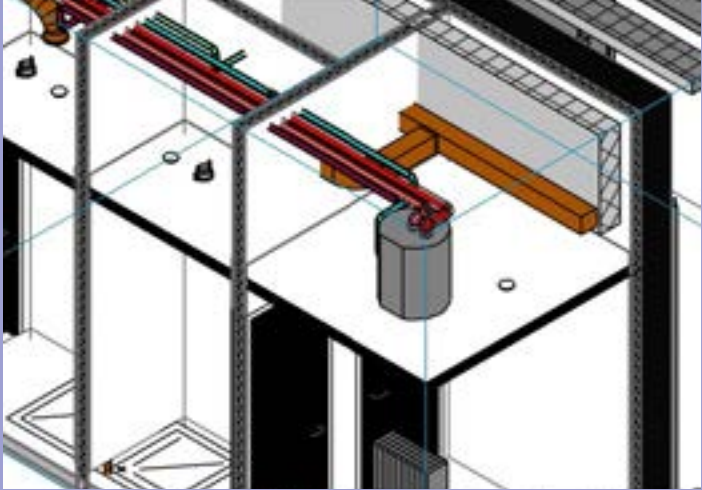
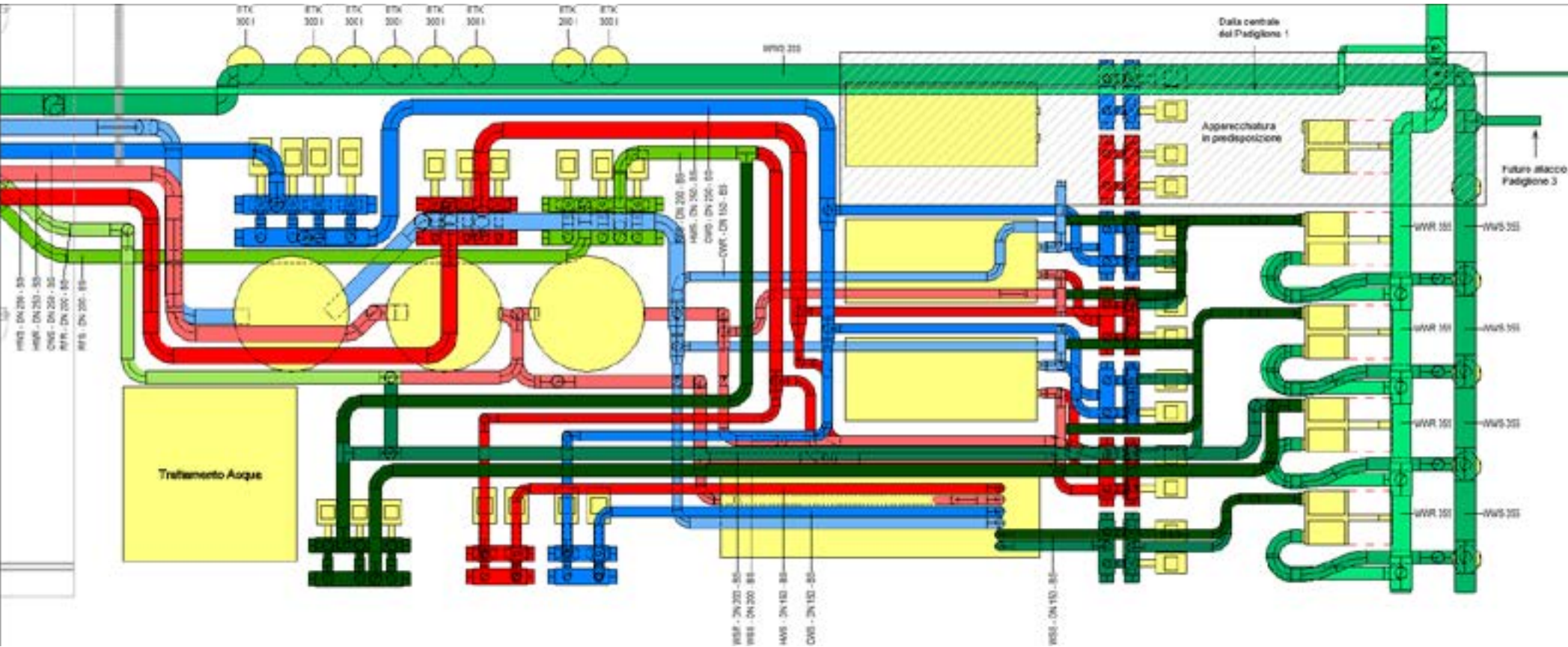
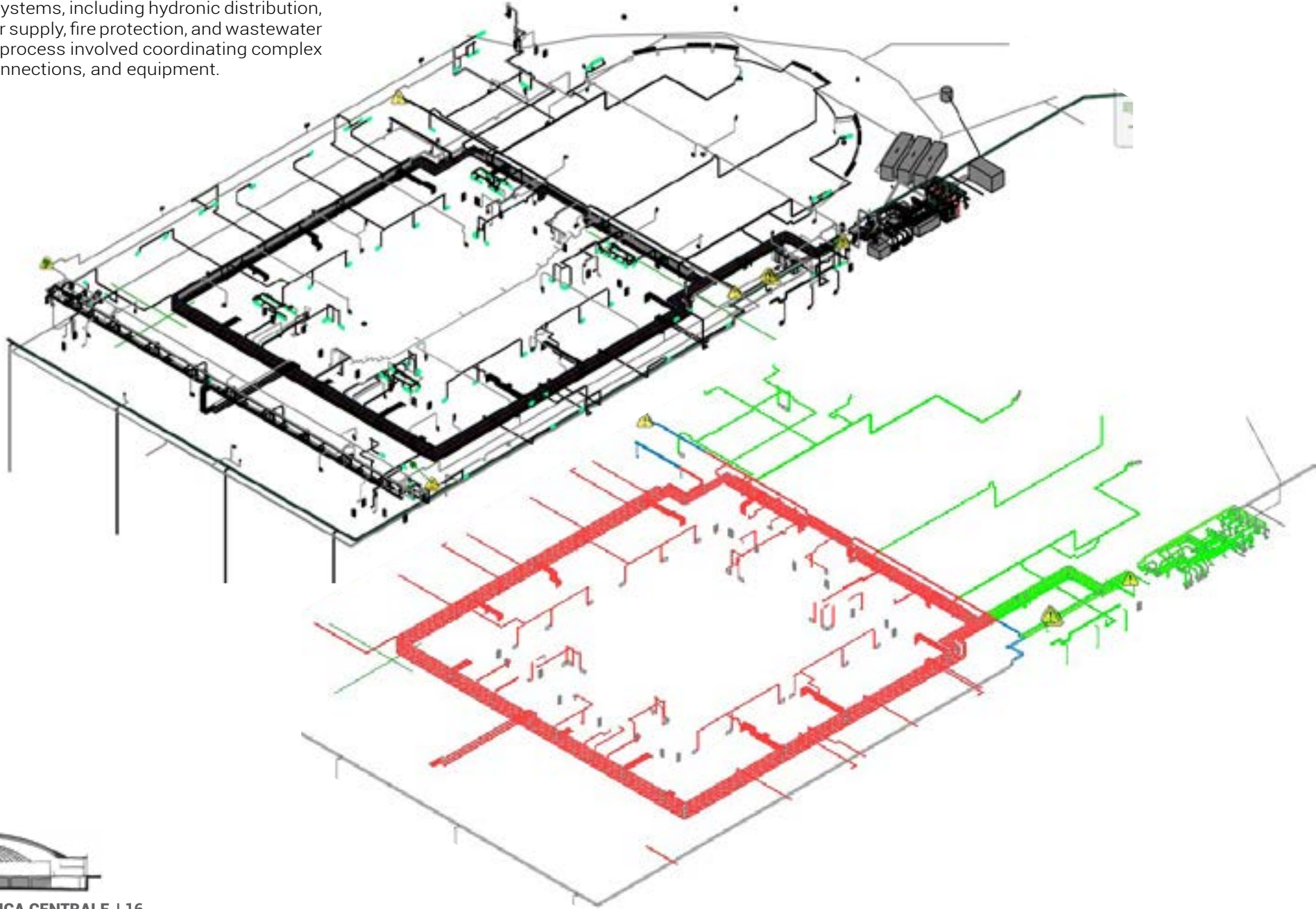
CLIMATE CONTROL FOR LARGE AND SMALL SPACES

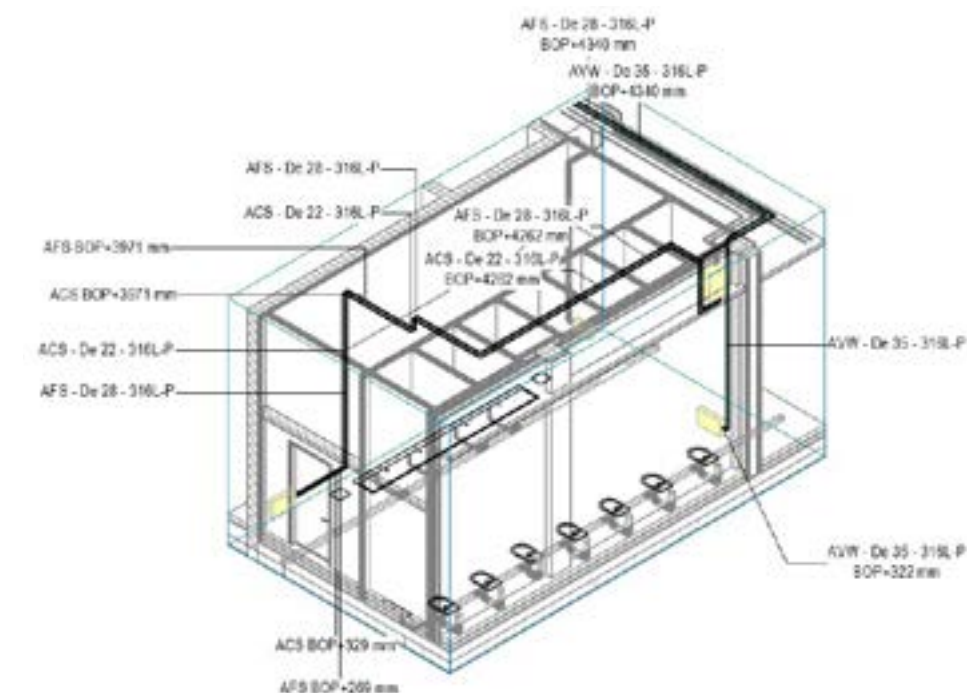
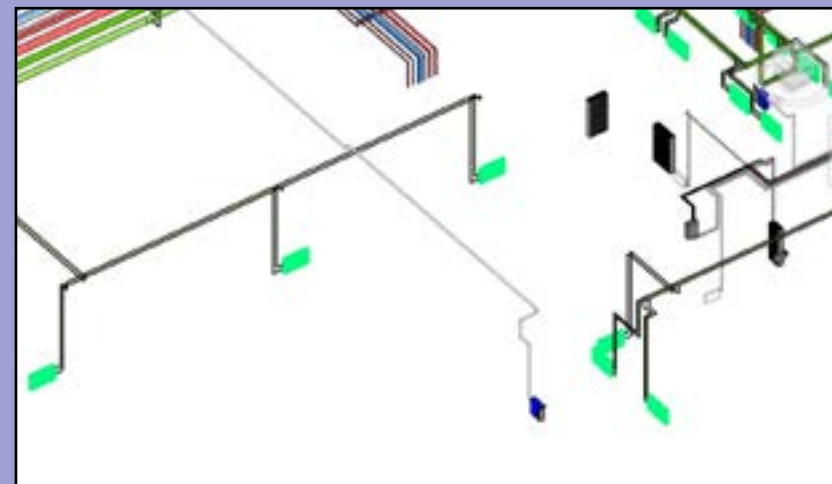
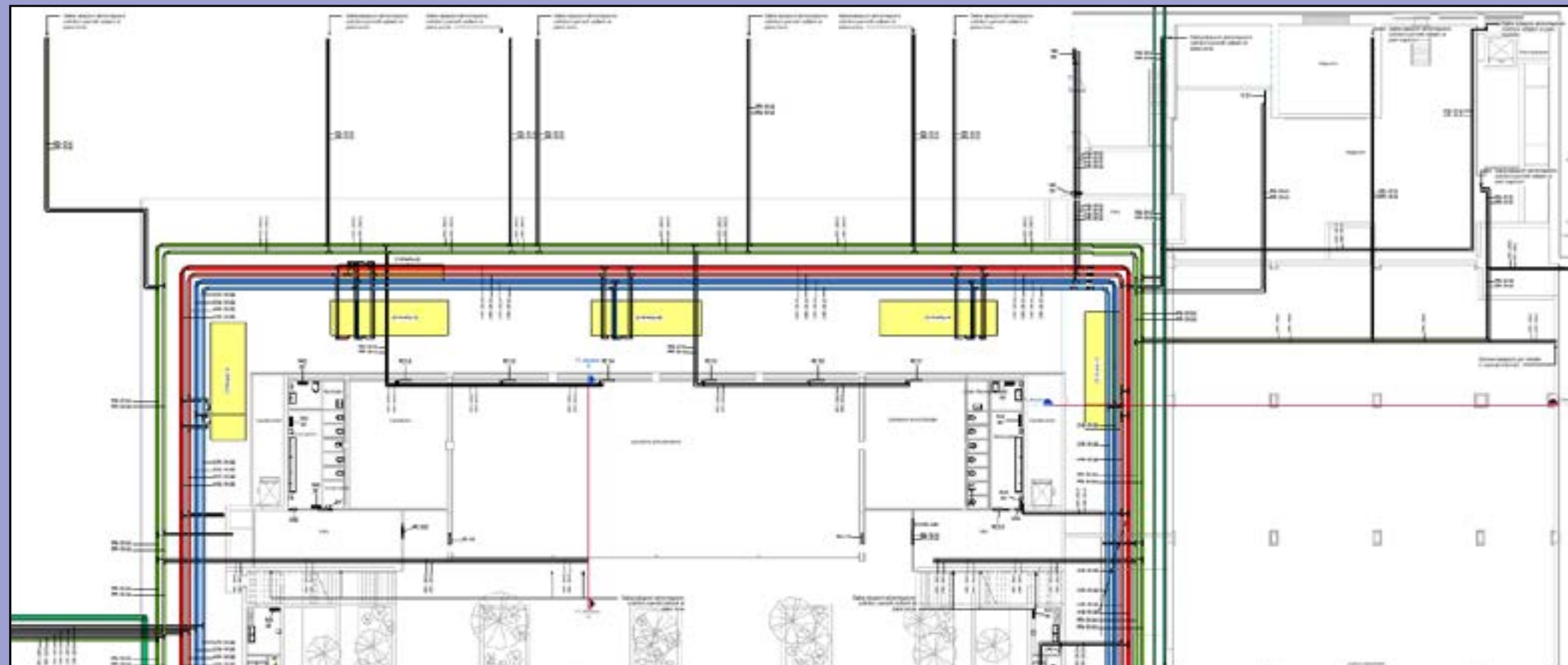


PLUMBING NETWORK

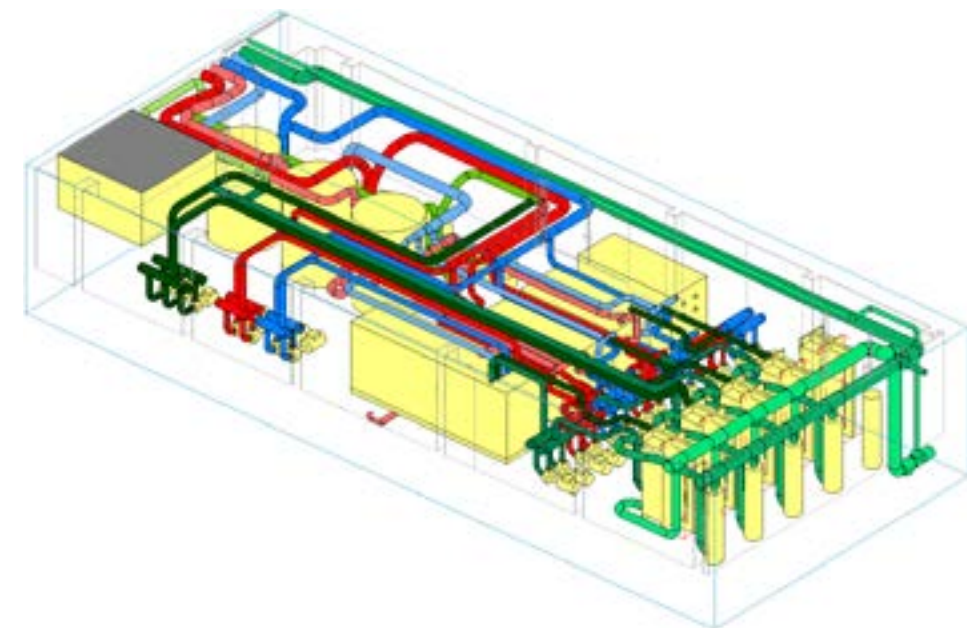
3D COORDINATED ROUTING

Detailed pipework modelling was carried out across multiple MEP systems, including hydronic distribution, domestic water supply, fire protection, and wastewater networks. The process involved coordinating complex pipe routes, connections, and equipment.

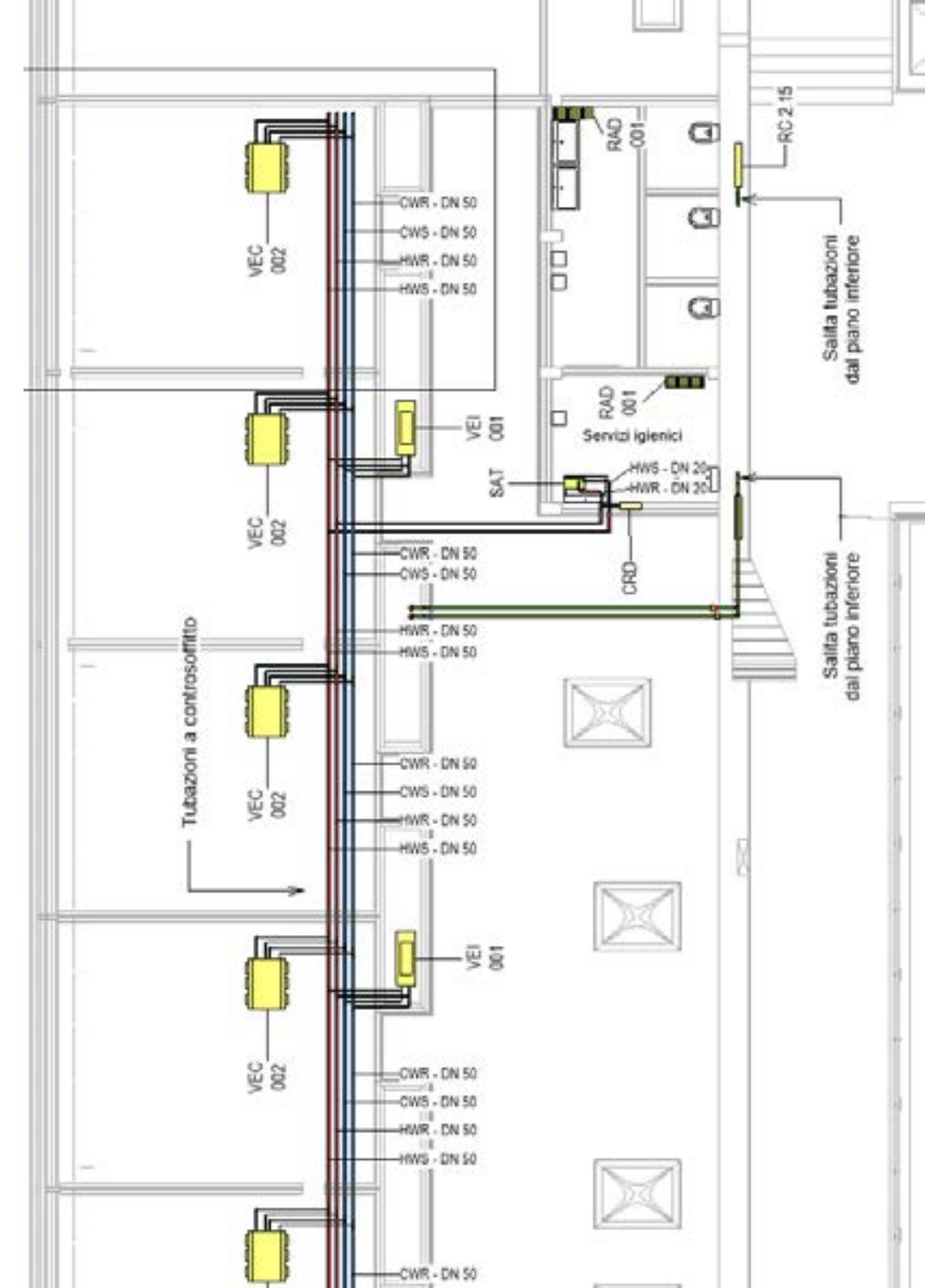


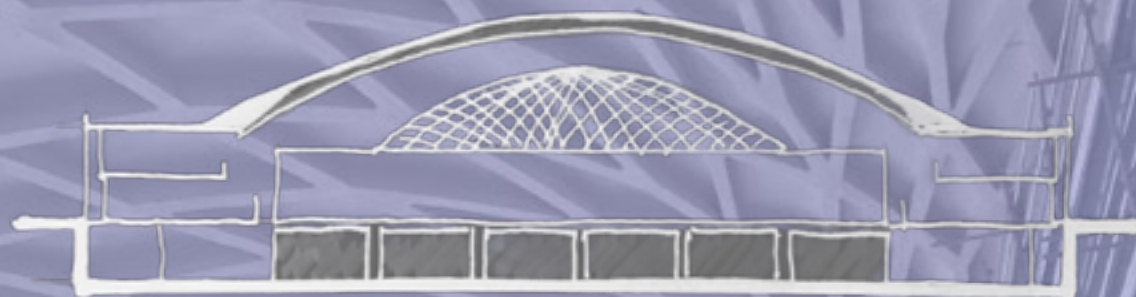


DOMESTIC WATER - BATHROOM MANIFOLDS



THERMAL PLANT ROOM - HYDRONICS





BIBLIOTECA CIVICA CENTRALE