Muon DT and RPC Integration. Overview and Status.

Barrel DT & RPC Gas and Cooling, N_2 Inertion

DT-RPC cable routing.

Cable Tray. Radial, Periphery

MB4 Supports Assembly and Installation

MB1 Supports Integration and final design

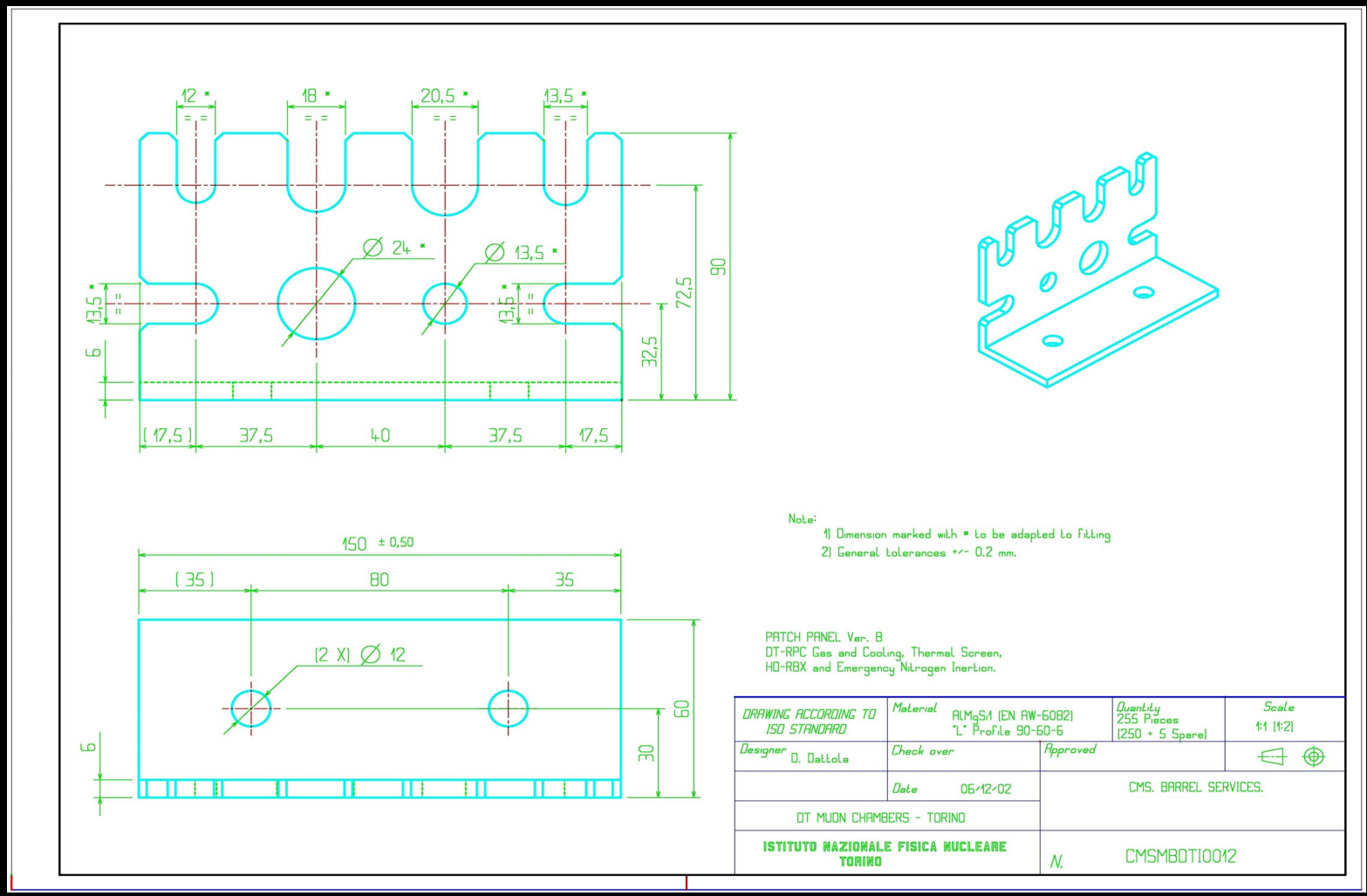
MB Patch panel.

Patch Panel

- Common to all positions.

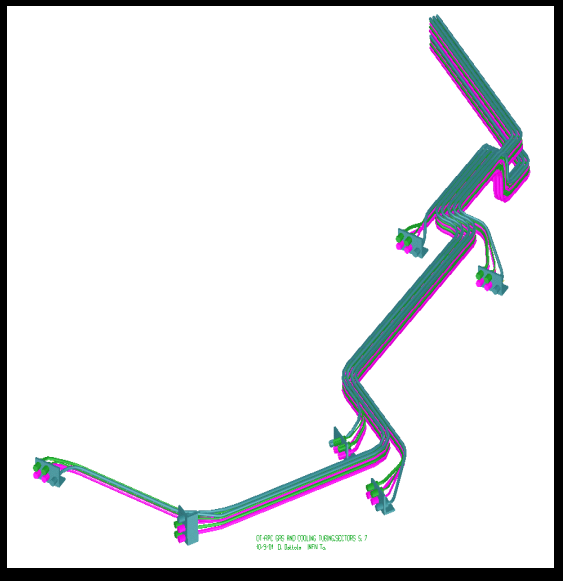
Allocation of connector change.

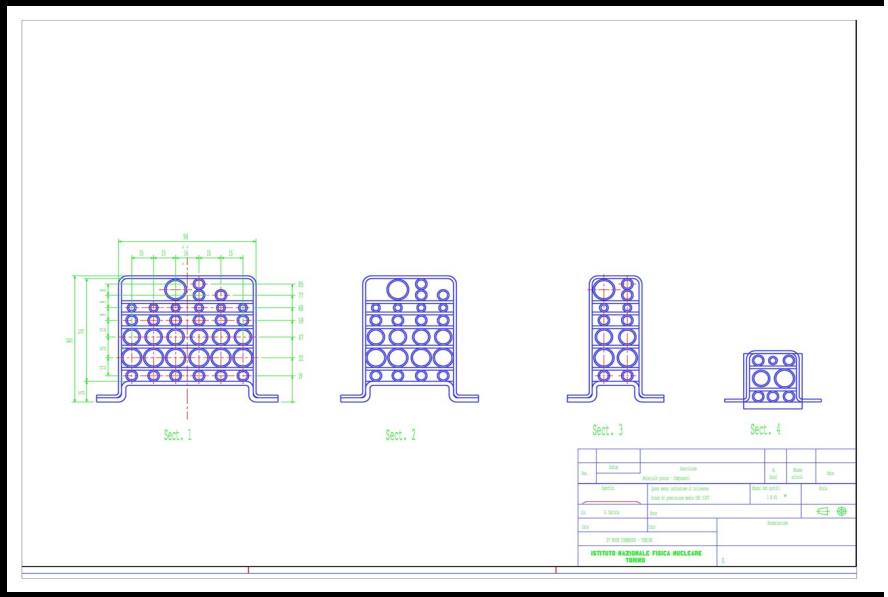
- Up to 8 fittings
  - DT gas inlet
  - DT gas outlet
  - RPC gas inlet
  - RPC gas outlet
  - DT + RPC Cooling In. or Out
  - Thermal screen cooling
  - HO Elec. Box N_2
  - Emergency N_2.



MB DT-RPC Gas & Cooling, HO RBX and Gen. N_2 Inertion, Thermal Screen cooling. (I)

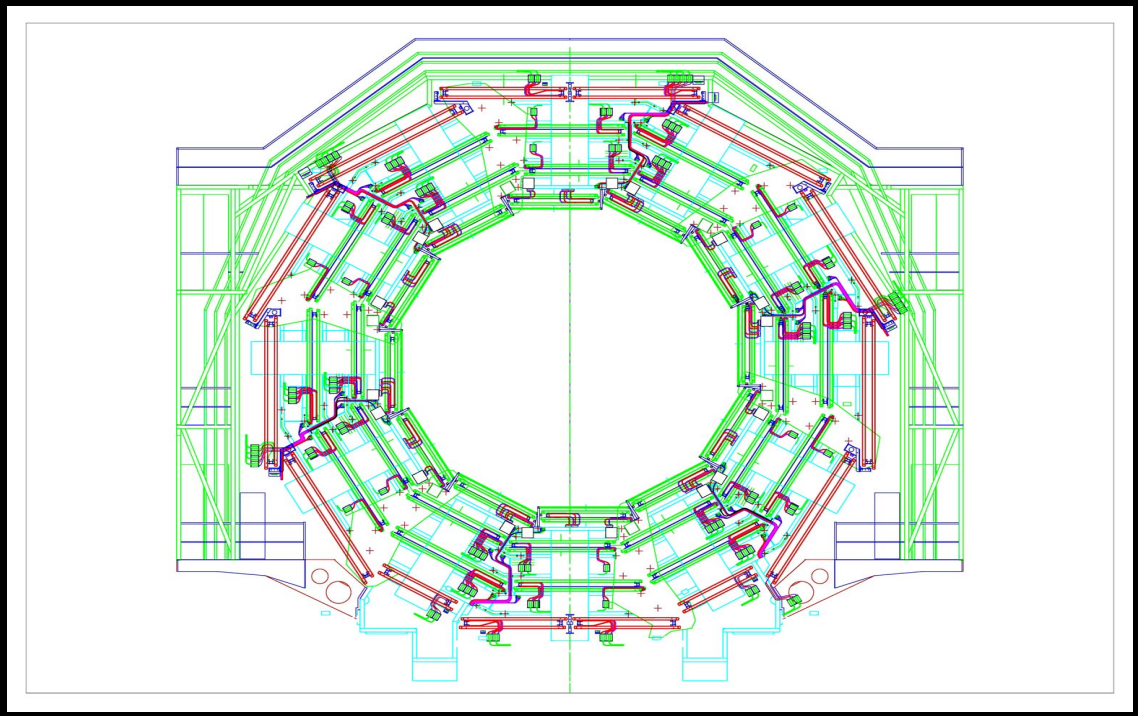
- Contract for supply and installation cooling pipes awarded to ZEC.
  - ✓ Cooling and gas pipes will be laid down at same time. Stainless steel cooling pipes should be installed first, followed by the copper pipes.
  - ✓ Pipes envelope shall have a clearance of 15 mm w.rt. the iron face to allow the cooling connection of two adjacent sectors. The maximum height shall not exceed 90mm.





MB DT-RPC Gas & Cooling, HO RBX and Gen. N_2 Inertion, Thermal Screen cooling. (II)

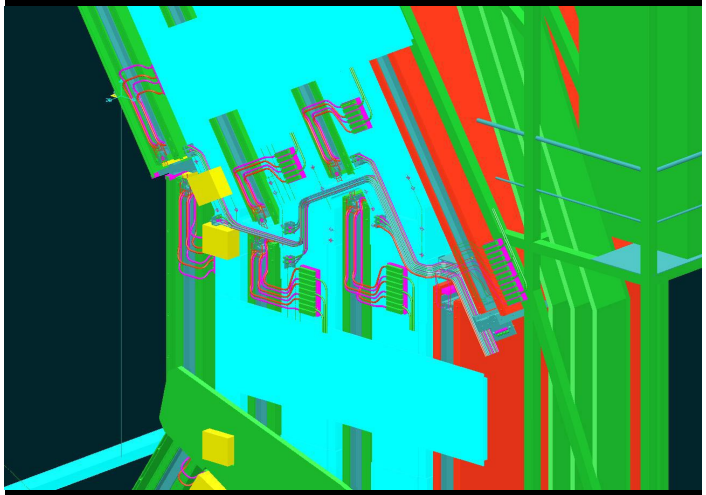
- We shall provide to ZEC 3D model that define:
  - PP positions
  - Manifold positions (periphery)
  - Pipe Routing on the face of the iron and on the periphery.

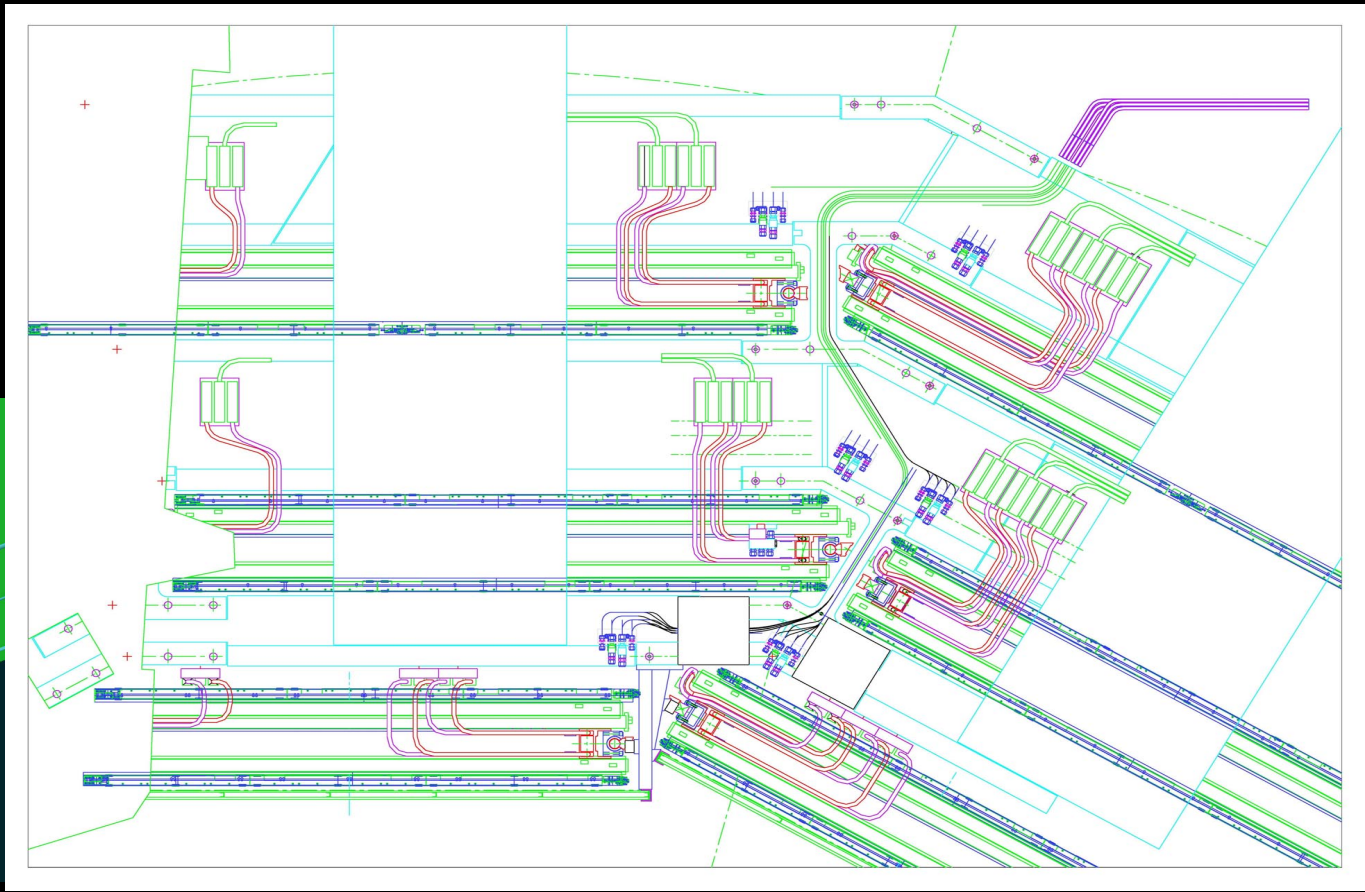


- Status:
  - PP Positions on the face defined, 3D model in preparation for all the wheels. Still not cleared the position of some PP on the walkway and in vicinity of feet. Work in progress..

MB DT-RPC Gas & Cooling, HO RBX and Gen. N_2 Inertion, Thermal Screen cooling. (III)

PP positions and pipe routing on the face of the iron.

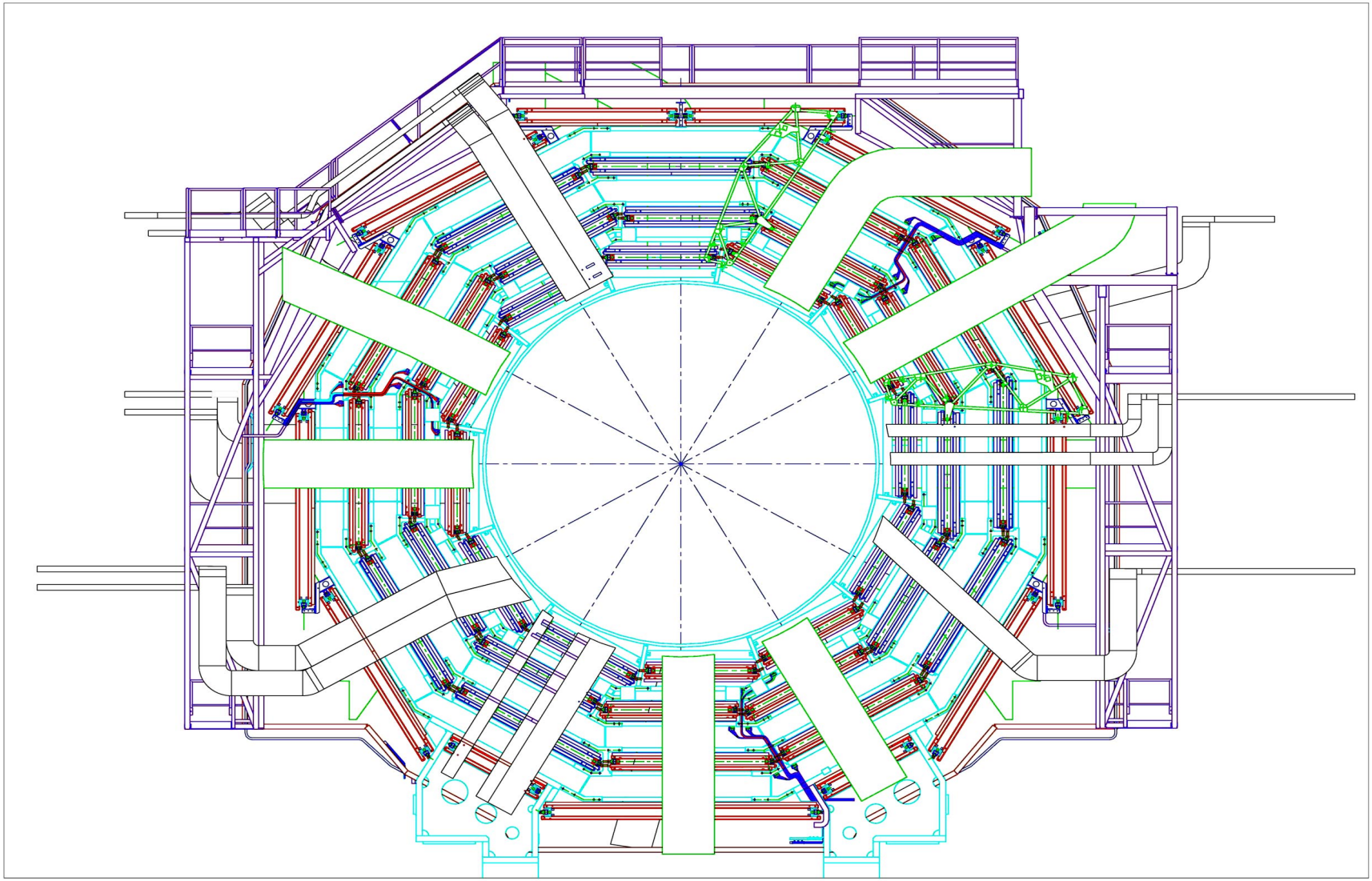




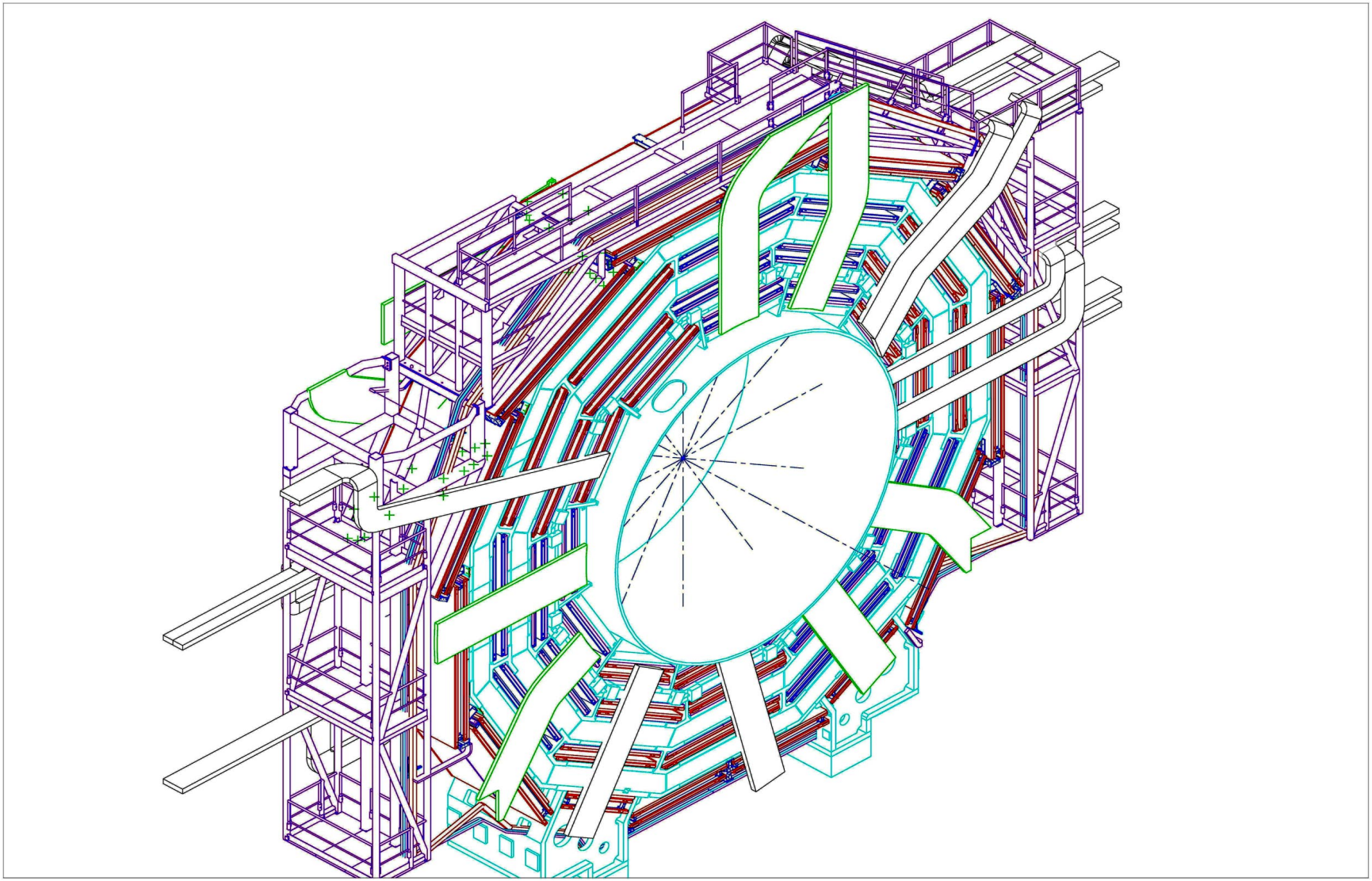
MB DT-RPC Gas & Cooling, HO RBX and Gen. N_2 Inertion, Thermal Screen cooling. (IV)

- Pipe routing and manifold positioning on the periphery.
  - Updated EUCLID 3D Models of
    - Walkways
    - Cryostat and related components.
    - Routing of Fixed and removable services on Wheel 0
- Integration Group are addressing special efforts on these tasks.

Wheel 0. (I)



Wheel 0. (II)



MB DT-RPC cables routing

Urge to define the DT- RPC Cables Routing.

Fabio Montecassiano is collecting detailed information on all the cable.

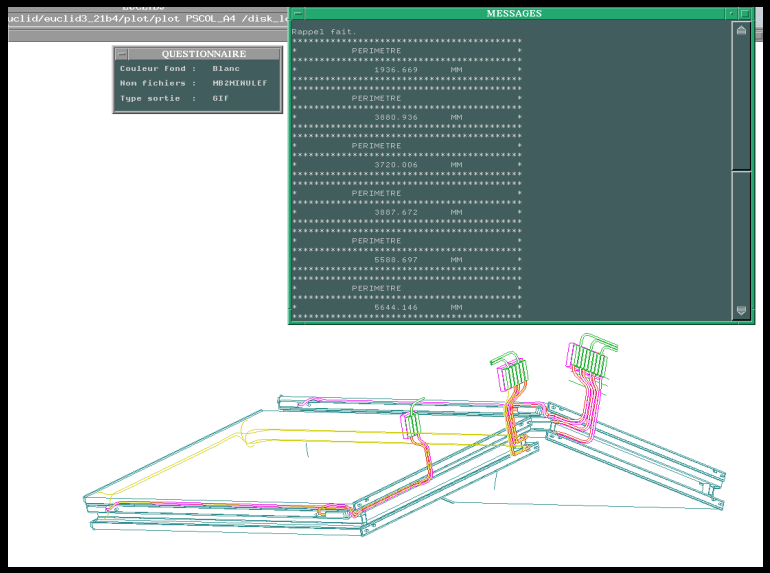
Naples RPC group (Pierluigi Paolucci) Contribute with the apport of an engineer (Lorenzo Roscilli) to the definition of the RPC Cables routing.

In particular we need to fix the length of HV DT γ cables by mid april..

Radial Cable tray shoud be studied in the Immediate future.

DT HV Cables .

Finalized for all the chambers.



MB4 Supports installation

MB4 Supports Structure and Rails will restart the first week of march.

Remain to install

On Wheels 1; -1: All the MB4 Supports.

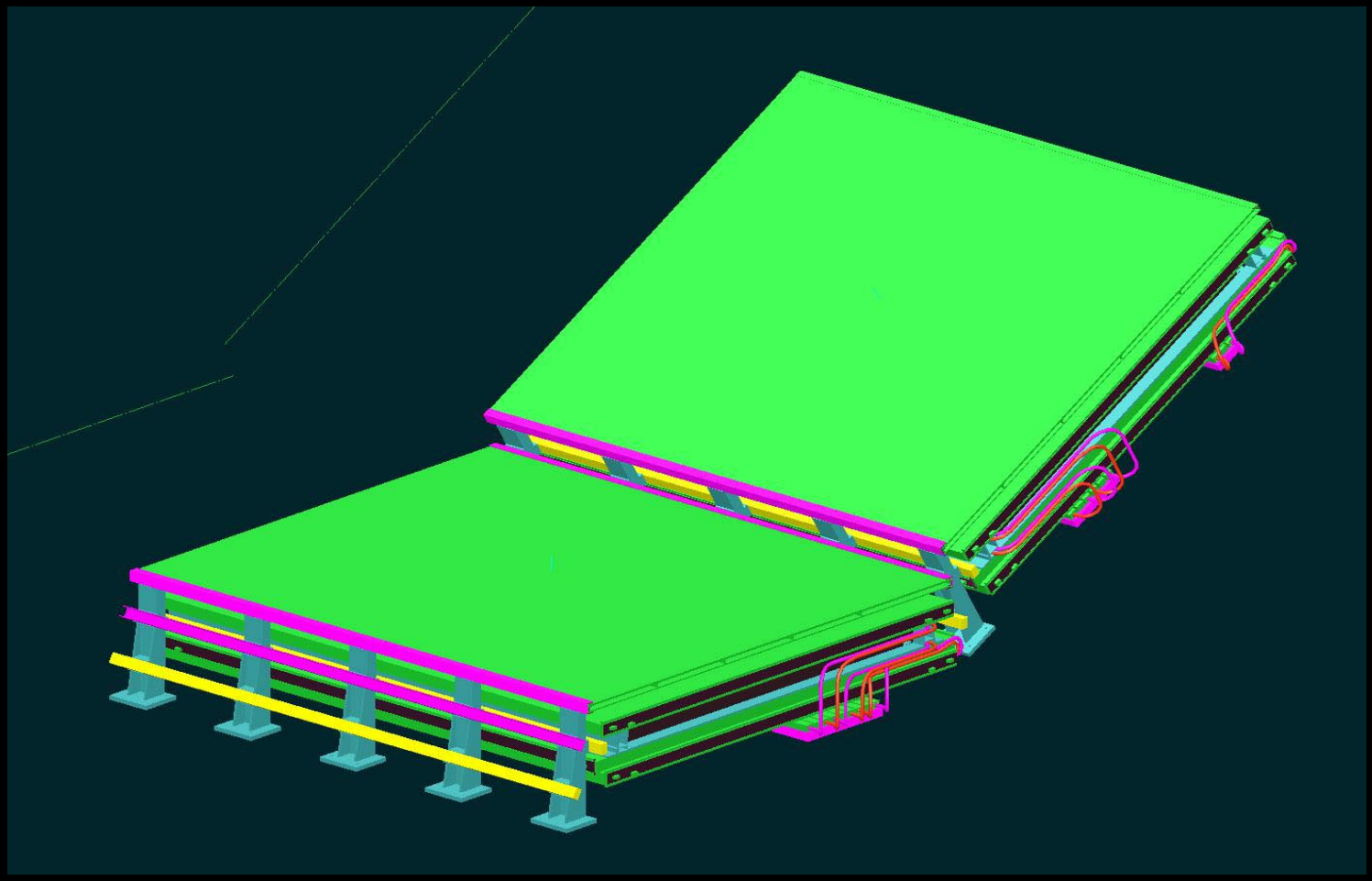
On Wheels 0; 2; -2: Bottom Support and rails on and inside the feet.

Estimated time to complete: 4 weeks

MB1 Supports

HO rails interface design defined.

MB1 Supports drawings must be finalized before end April.



Conclusion.

Works for gas and Cooling installation, are prioritary

ZEC will start installation on YE 2 in the next week.