

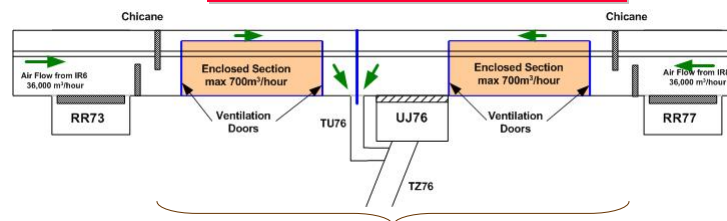
IR7 Integration

Contents

- ◆ **General services integration in IR7 collimation area:**
 - ◆ **Cooling and ventilation**
 - ◆ **Cables**
- ◆ **Machine layout on the right side of IR7 (left side symmetrical) :**
 - ◆ **RR77 & R771 shielding**
 - ◆ **DQR and DQRS**
 - ◆ **36 Collimators, 3 scrapers and 6 absorbers + 4 JSMAC**
 - ◆ **TU76 modifications**
- ◆ **Provisional schedule**
- ◆ **Conclusions**

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IR7 General services



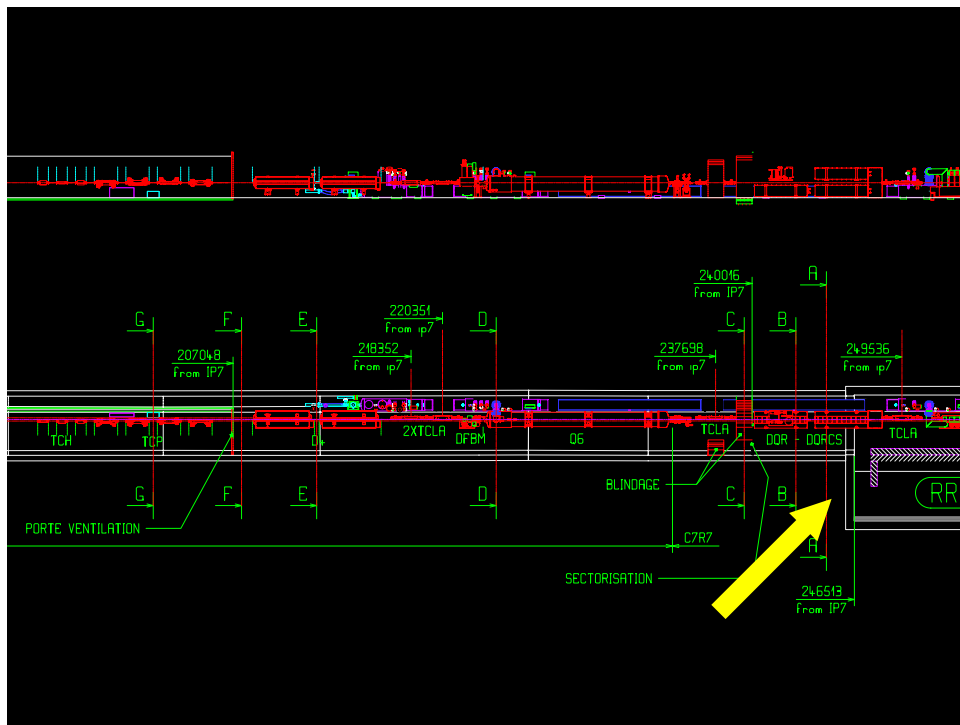
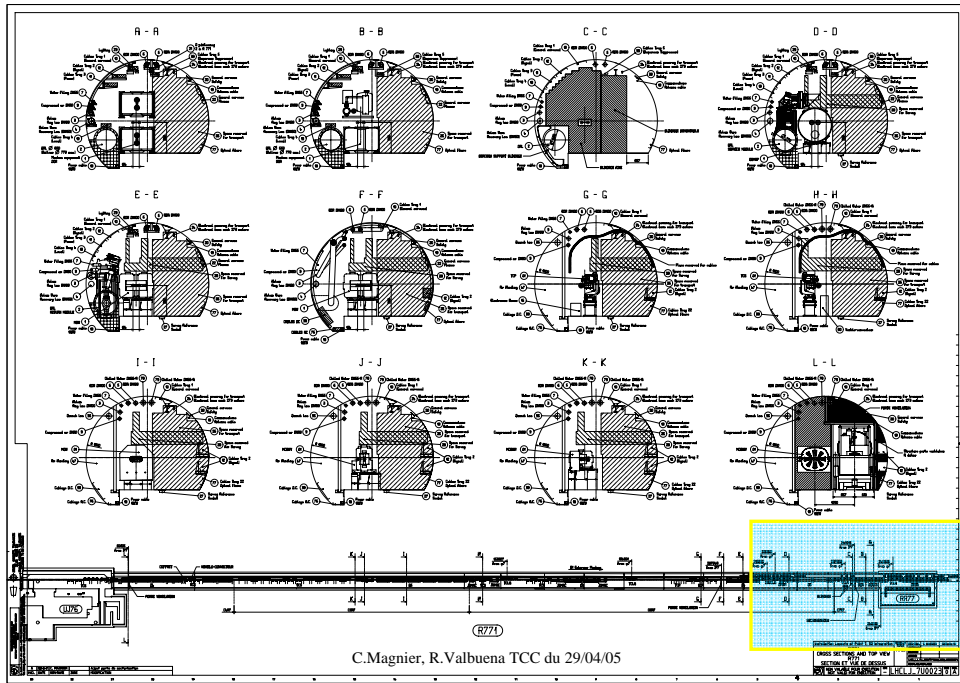
- **Main characteristics of services integration in collimation area :**
 - **18kV, AC, DC cables and the Quench line inside the ventilation duct**
 - **Pipes on tunnel ceiling (+ 2 chilled water pipes)**
 - **Optic fibers and signal cable trays on inner side of the machine**
 - **8 Ventilation units in enclosed sections**

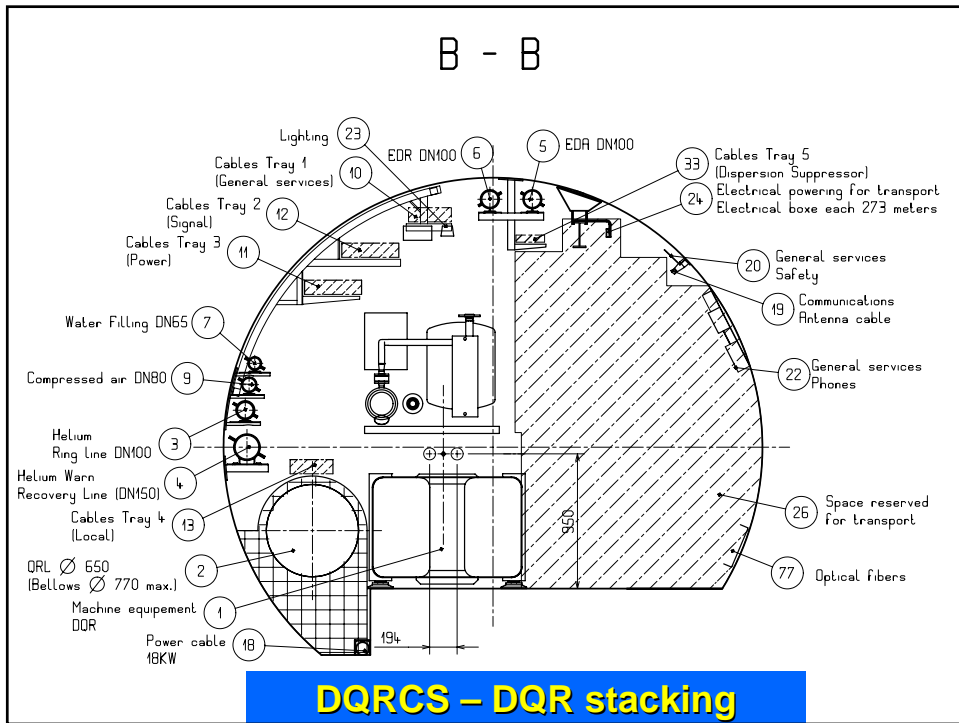
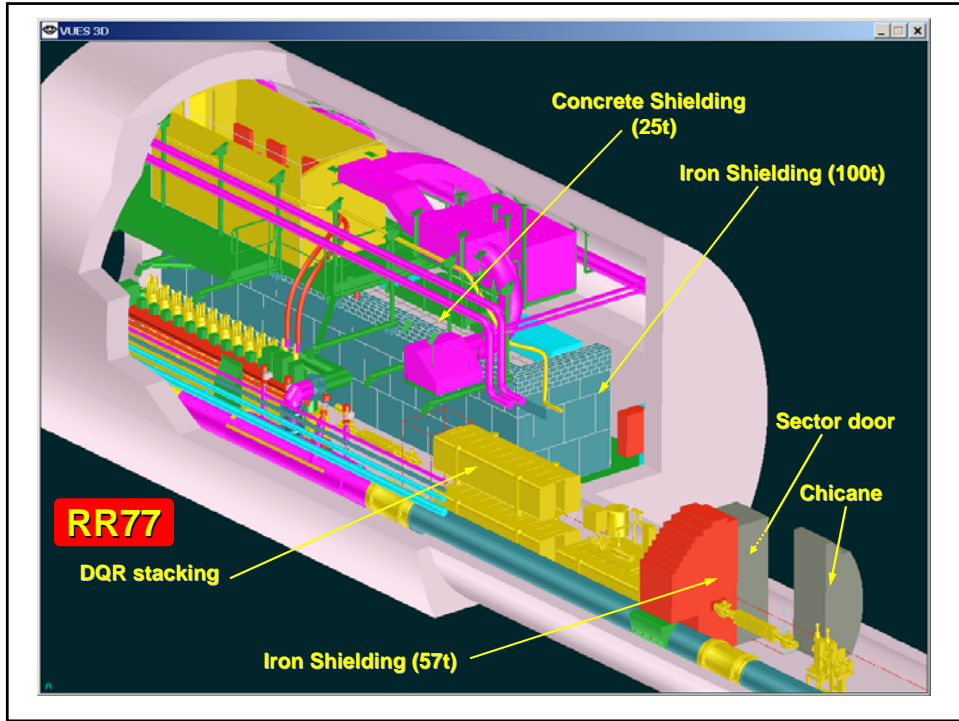
New iron shielding in C7R7, C7L7, RR73 and RR77

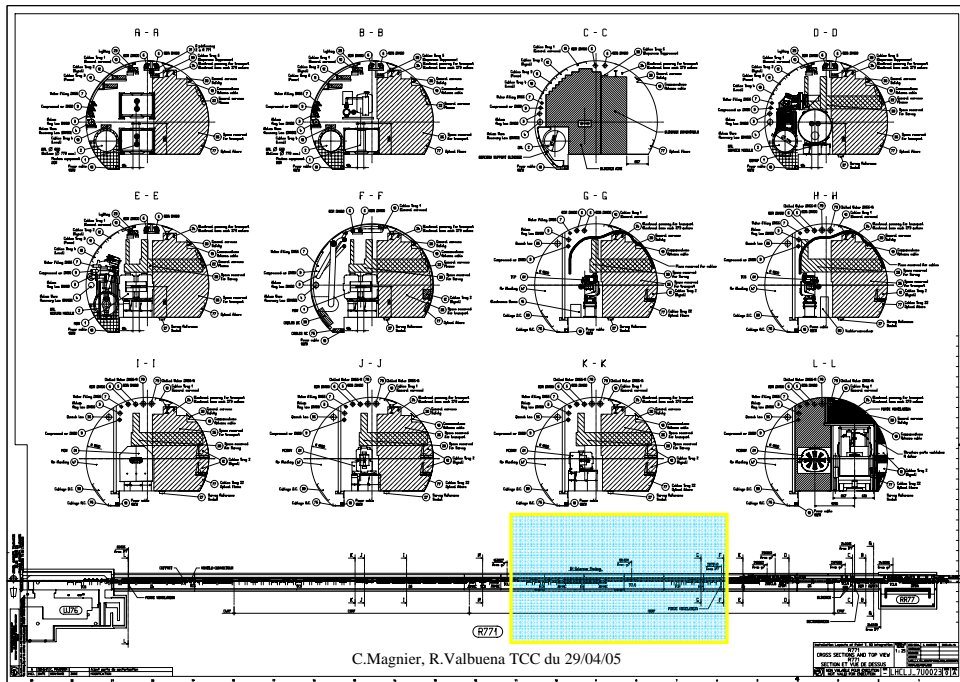
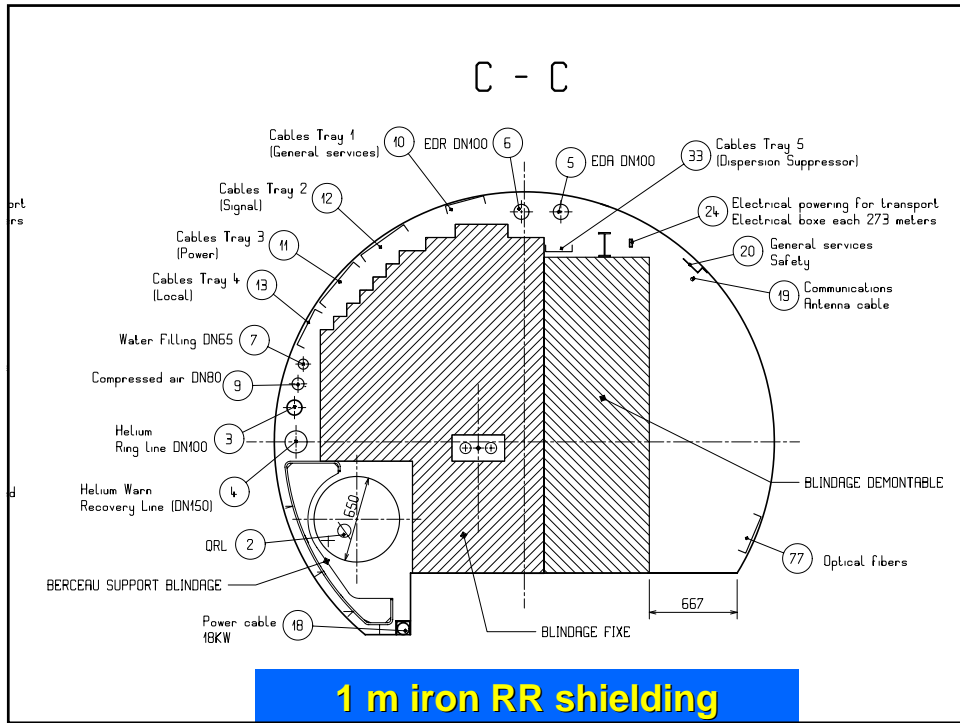
UJ76 integration remains unchanged

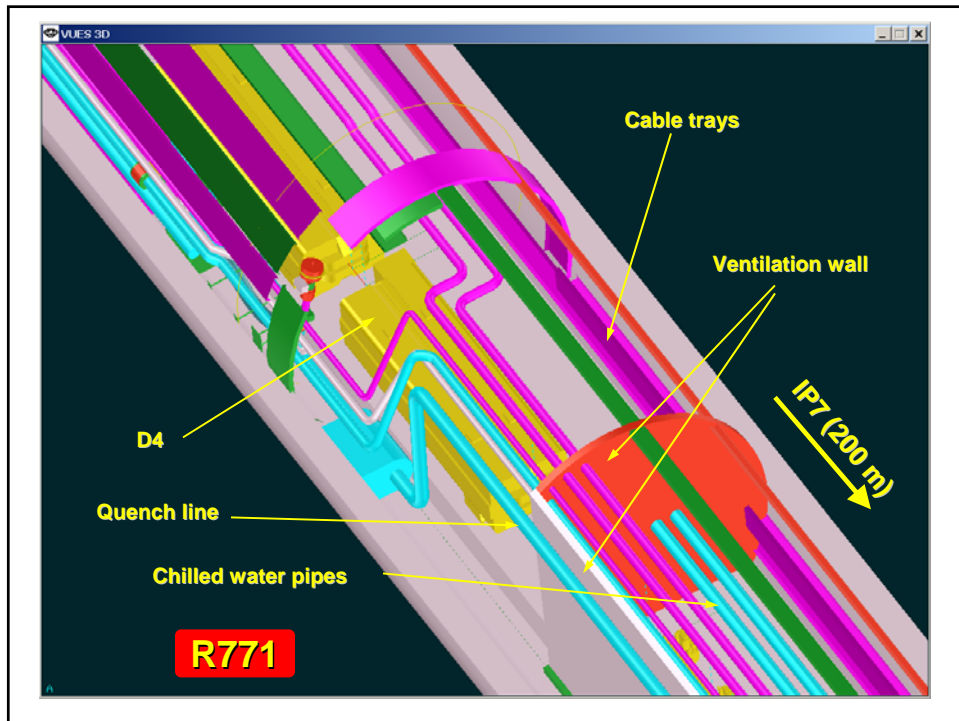
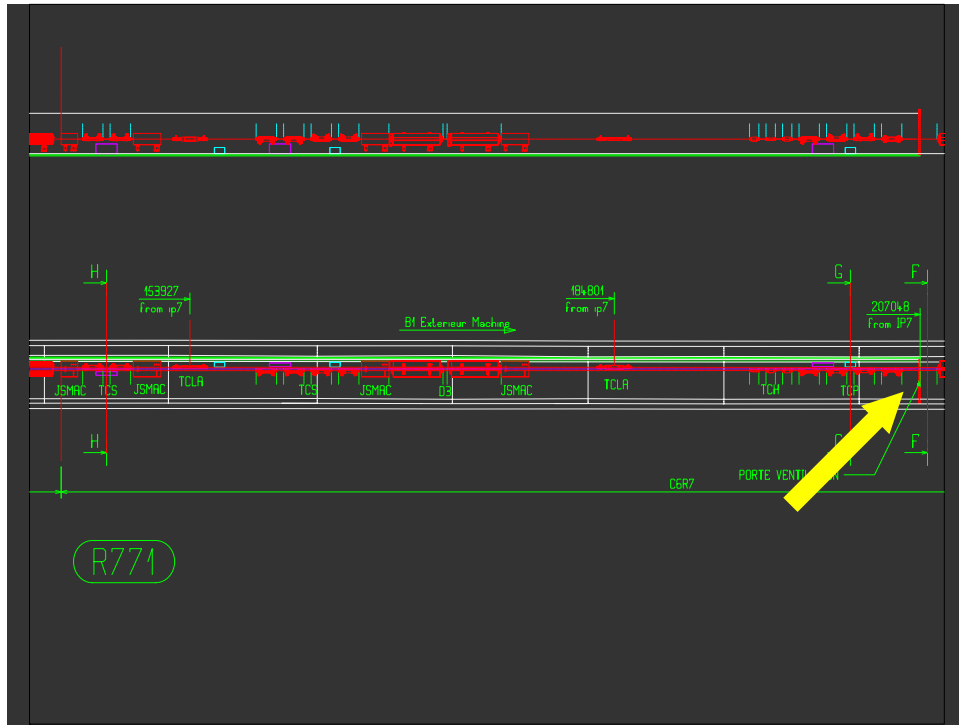
Collimation racks moved to TZ76

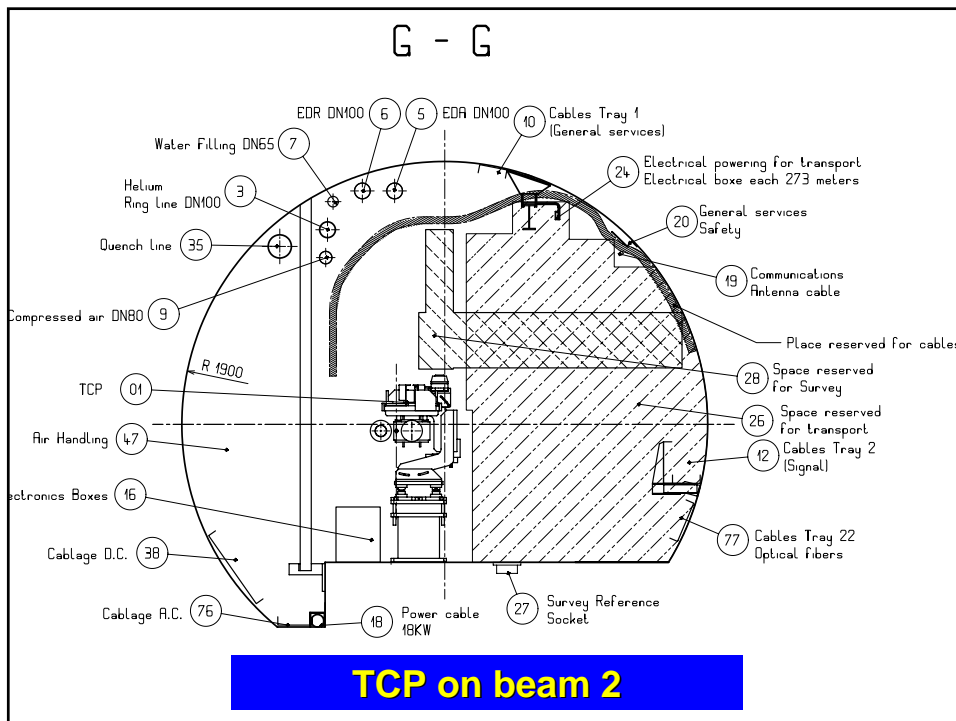
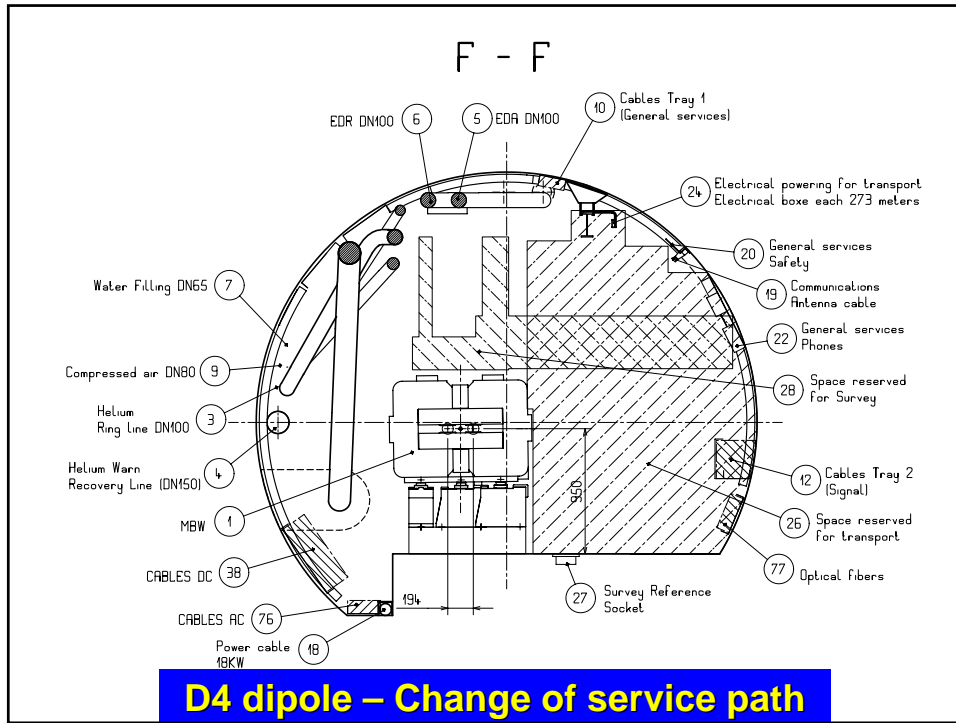
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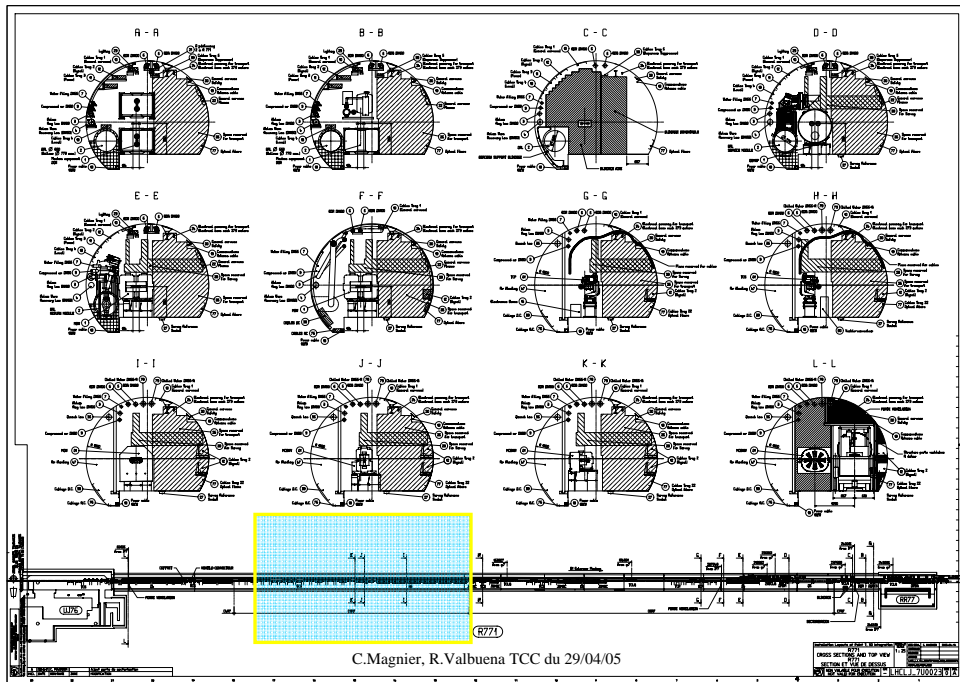
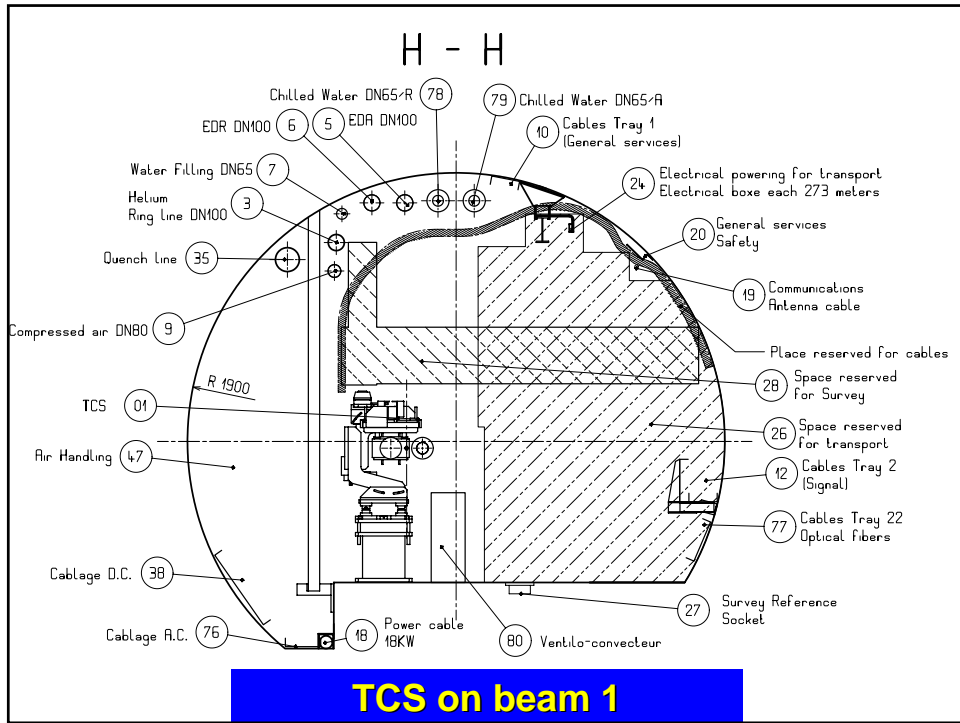


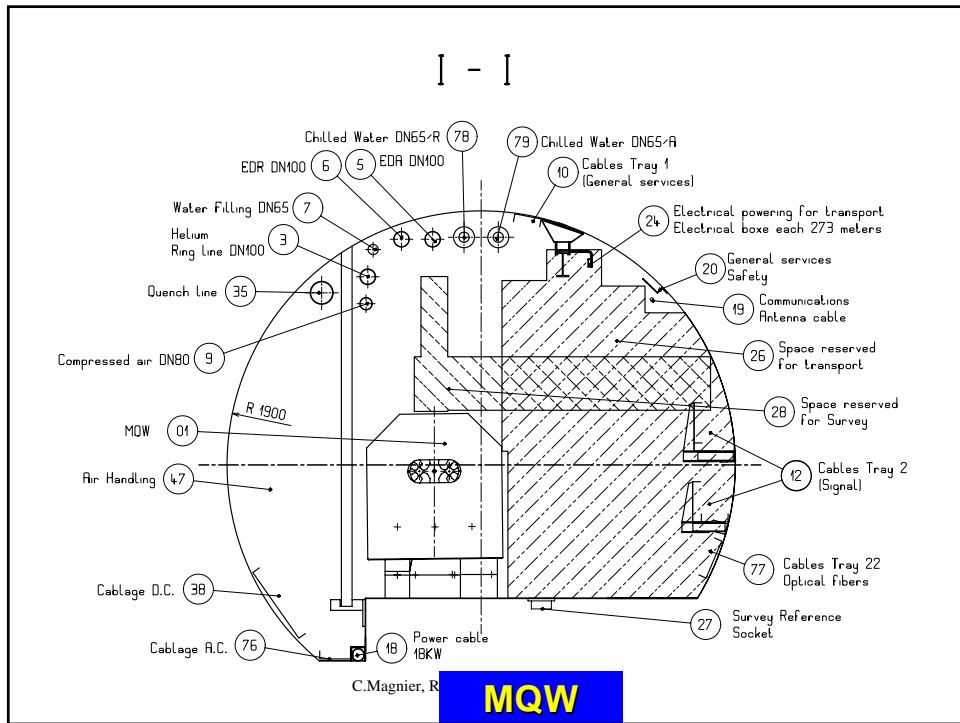
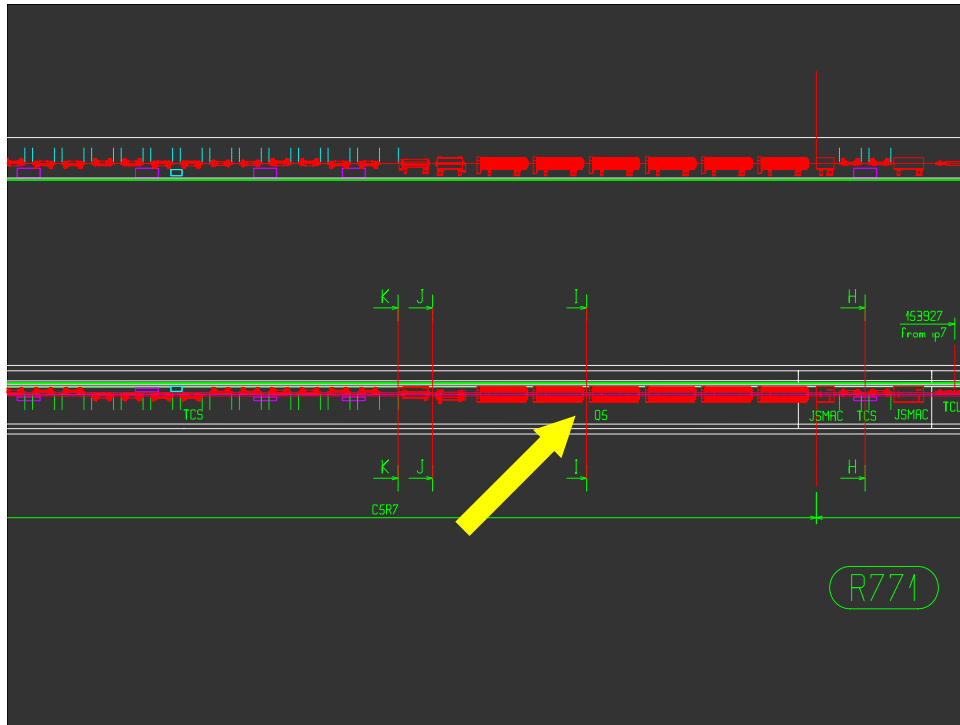


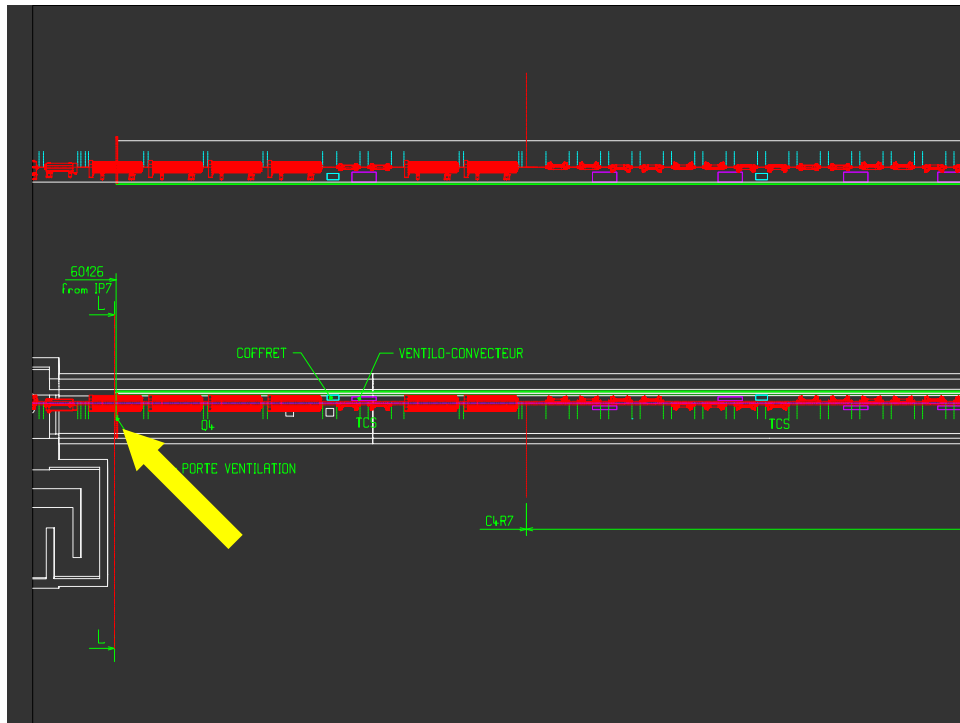
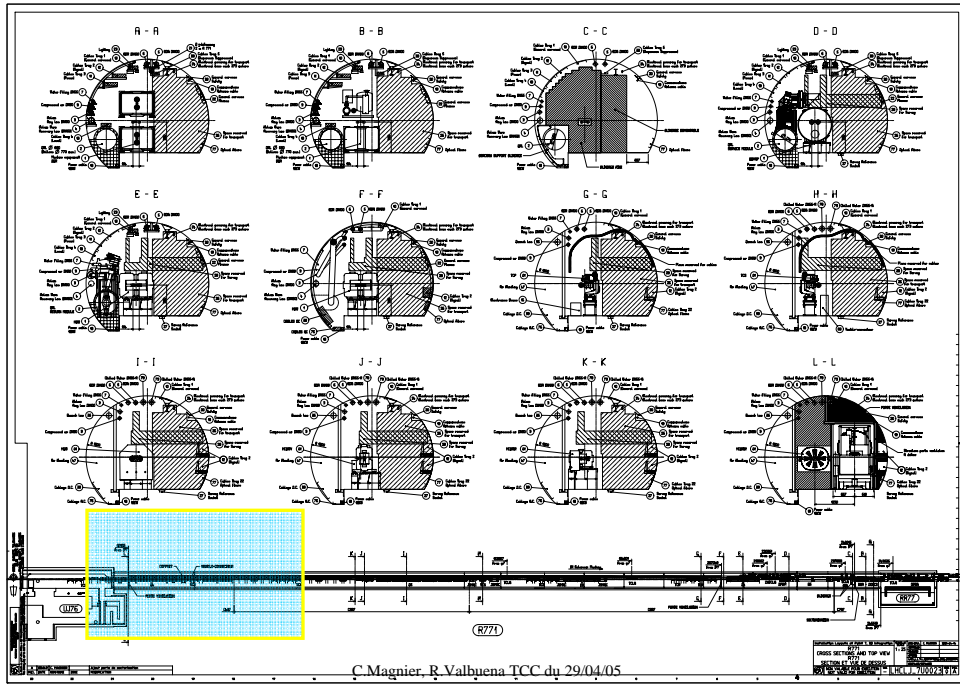


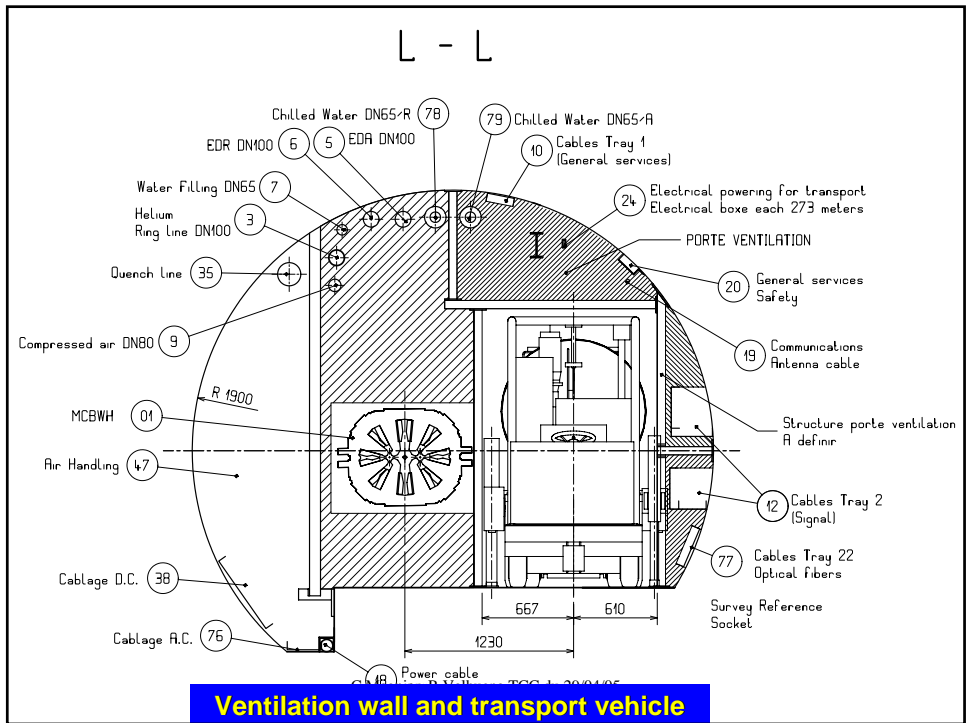
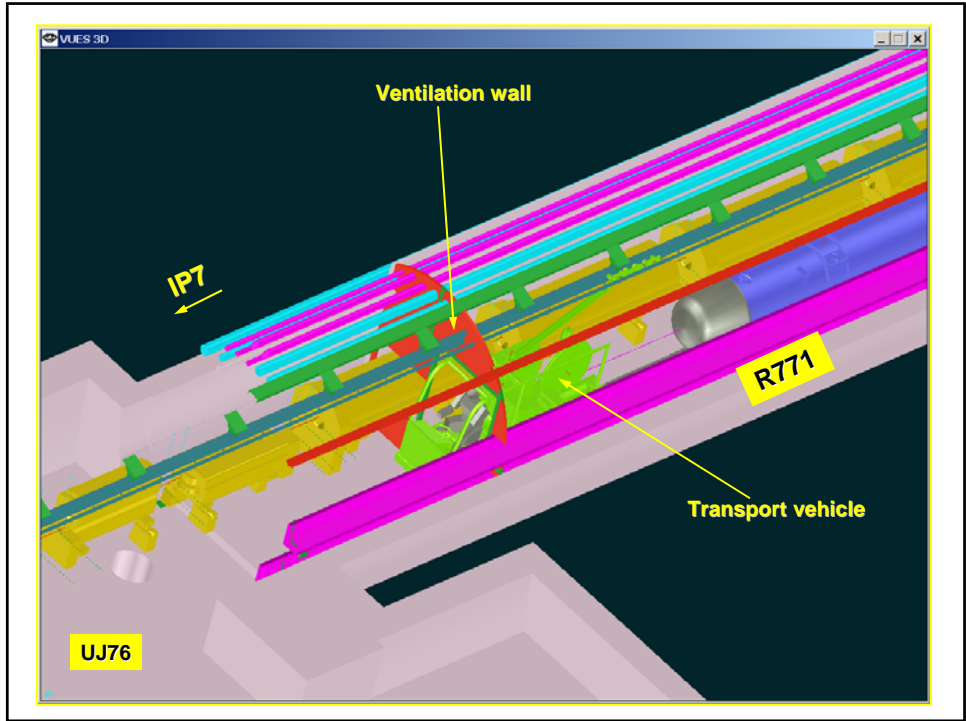


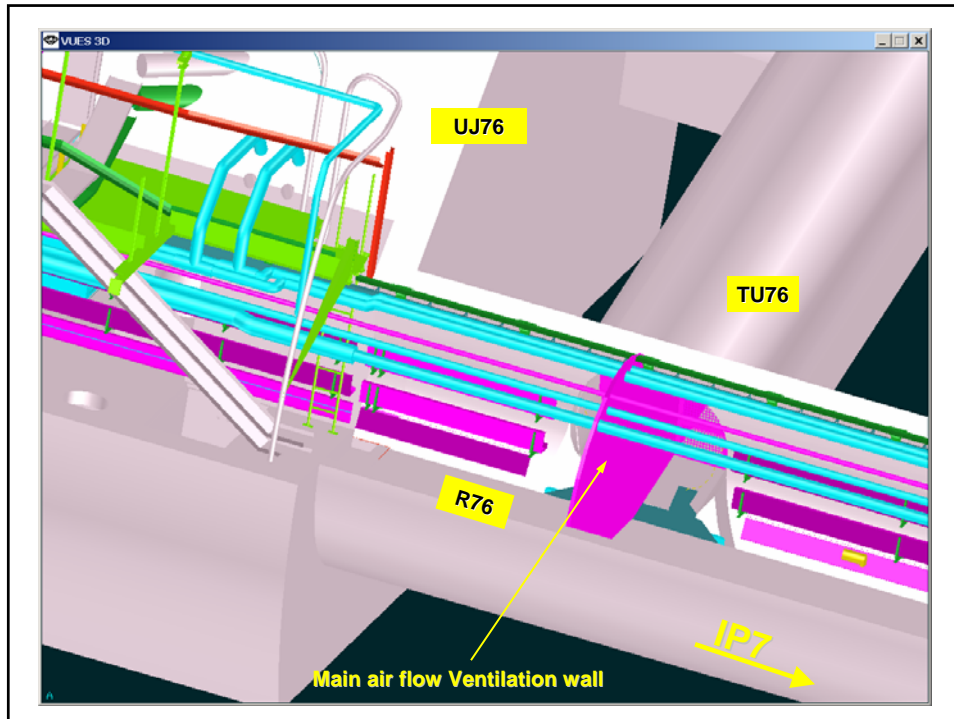












Provisional Schedule* :

◆ P7 right side:

- Aug 05 : QRL installation
- Sep-Oct 05 : removal of already installed cable trays
- Oct-Nov 05 : Piping work
- Sep-Oct 05 : Civil engineering work for TU76 entrance modifications (chamfer and trench) + new hole in UJ76?
- Nov 05 : Cabling
- Jan 06 : Shielding installation

◆ P7 left side:

- Oct-Nov 05 : Piping work
- From Jan 06 : Cabling

* from K.Foraz

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Conclusions:

- ◆ Full Integration of both sides of P7 from RR73 to RR77 is completed and ready for EDMS approval.
- ◆ Installation of services could start mid-2005.
- ◆ Detailed designs of ventilation walls, tunnel and RR shielding are underway.
- ◆ For each side of IP7, only 3 TCP, 3 scrapers and 11 TCS will be installed for the 1st phase.
- ◆ C7L7 and C7R7 shielding will be installed partially (no chicane).

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