

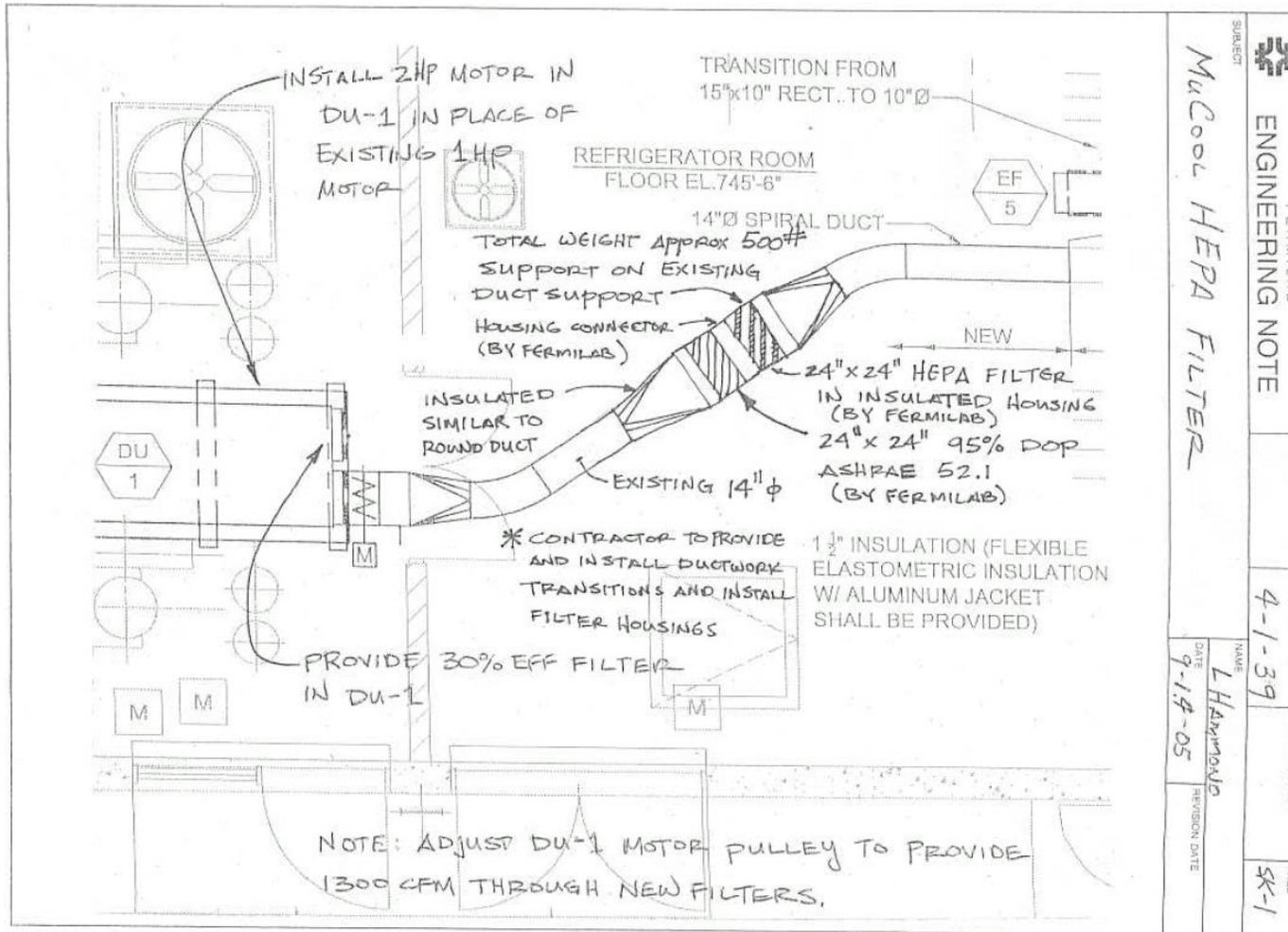


# MTA and RF Cavity Update

A. Bross  
MC Meeting  
November 4, 2005

# MTA HVAC

- We are going to add a HEPA filtration system to the MTA HVAC system to help keep down dust

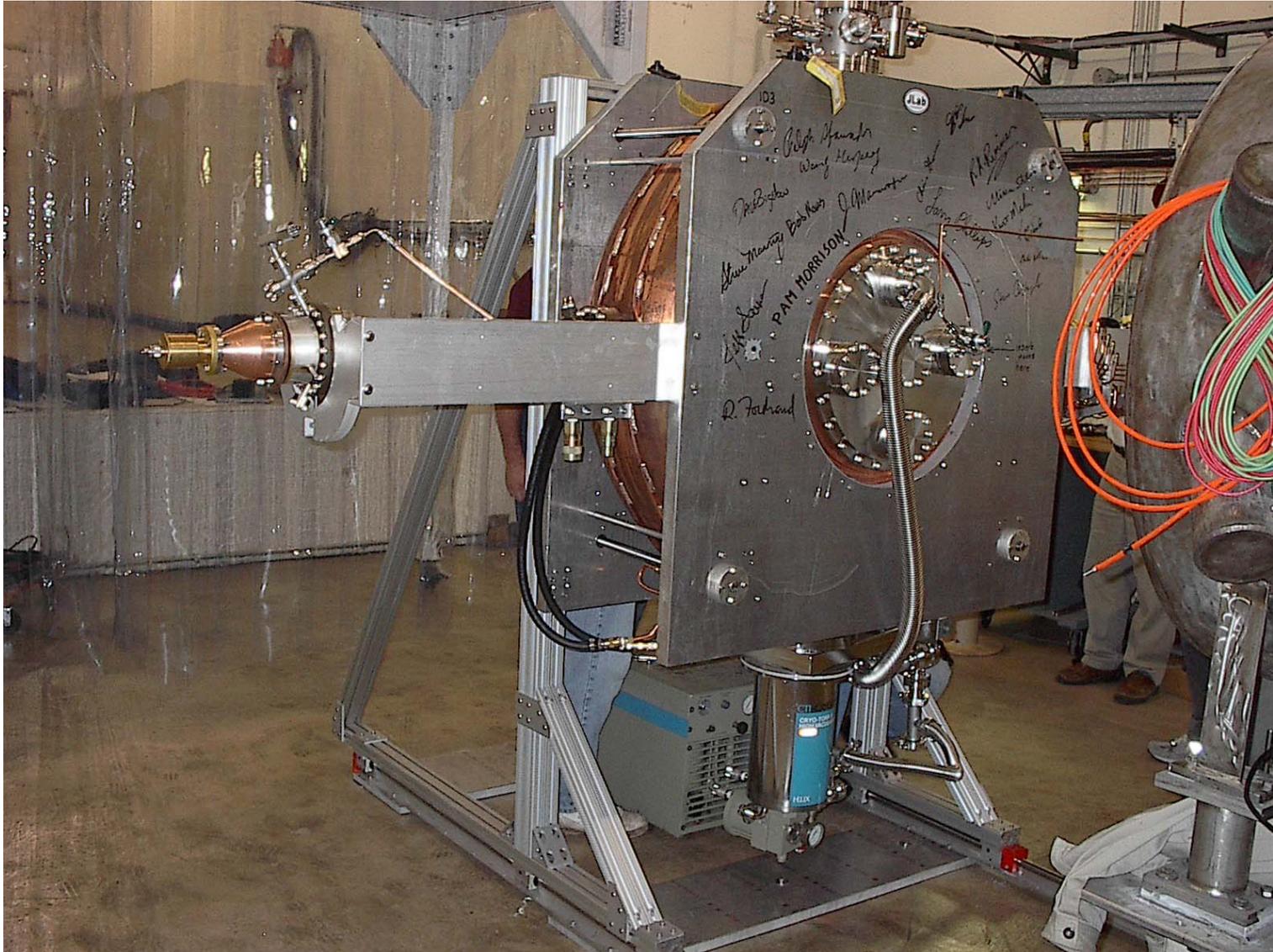


SUBJECT		FERMI LAB	
McCool HEPA FILTER		ENGINEERING NOTE	
SECTION		PROJECT	
4-1-39		SERIAL CATEGORY	
NAME		PAGE	
L. Hammond		SK-1	
DATE		REVISION DATE	
9-14-05			

## MTA HVAC II

- However, we have a problem with rust particles being generated in the steel duct pipe that take air from the air handler on the roof of the refrigerator room and brings in down to the MTA Hall through the berm.
  - ◆ A fine layer of rust is slowly deposited in the MTA
  - ◆ Working with a vendor to come up with a procedure to clean the pipe (and ducting internal to the hall) and then seal the steel pipe.
  - ◆ It is always something

# 201 Cavity Update



# 201 Cavity Update

- The vacuum leaks have been fixed
- We have been pumping and the vacuum is slowly improving
  - ◆ Currently at  $2.8 \times 10^{-8}$  Torr
  - ◆ Water partial pressure is  $1.5 \times 10^{-9}$  Torr
- The survey work for the remaining 201 MHz coax has been completed and the remaining parts that are needed to hook up the cavity to power will be determined and parts ordered next week
  - ◆ The estimate is 6-8 week delivery for parts
- We still need to a final decision on whether or not an additional hot-N<sub>2</sub> purge is needed before applying power to the cavity

# 805 Update





# 805 Update

- All wavguides are attached to the cavity (modulo the Muons INC. hookup)
- Cavity purge complete
- Current vacuum is  $8 \times 10^{-9}$  Torr
- Concrete shield wall installation should start next week and should be completed by the end of the week if there are no interruptions due to accelerator activities and their potential need of the riggers and mechanical techs
- Cavity and pick-up calibration will go on in parallel with the shield wall stacking.
- So, if all goes well, we can apply power to the 805 pillbox cavity starting 11/14/2005.