



MTA Cleanout – funded under MAP 29M

Presenter & Money Bags: Peter H. Garbincius

Task Leader: Jason St. John

AD Heads Meeting – 14march2019

Purpose and scope

MAP use of MTA has completed

PPD wants to use as Irradiation Test Area (ITA) for CMS

AD will still need to provide beam to ITA

different beam height/trajectory

strip electrons from LINAC beam and separate from protons

reuse much of existing beam line, need additional elements

Otherwise, strip to the bare walls (and repaint!)

Problem: years ago, a pair of Be windows in MICE RF failed

contaminating beam pipe and some vacuum elements.

before reusing, must be cleaned of Be and test verified.

Disposal of Be contaminated materials which can't be cleaned,

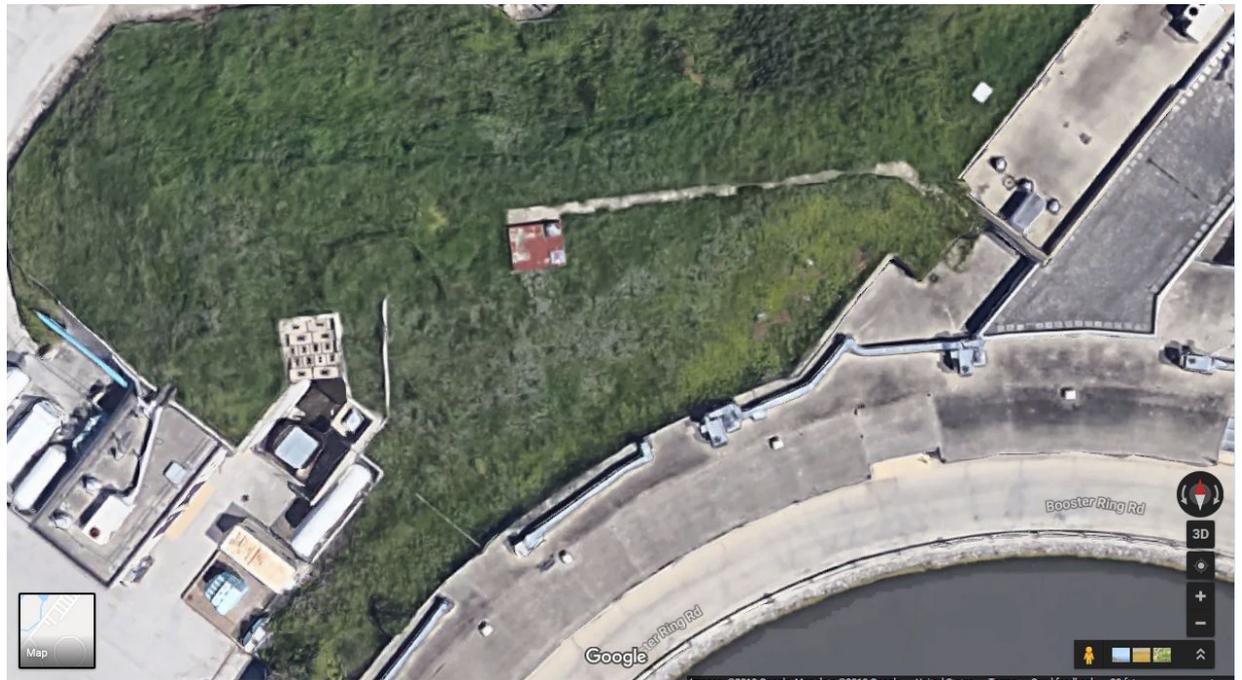
e.g. MICE Cavity, bellows, ion pumps => Be storage area

Scope of Work

clean out MTA Hall to shield wall from LINAC enclosure I
including all penetrations

don't remove: cryo from MTA Service Building, gas shed,
external cryo tanks and vacuum buffer tank & associated lines,
waveguide/coax through shield wall to Linac, above ground, or
LINAC gallery

PPD will replace
external shielding
wall



Bigger View



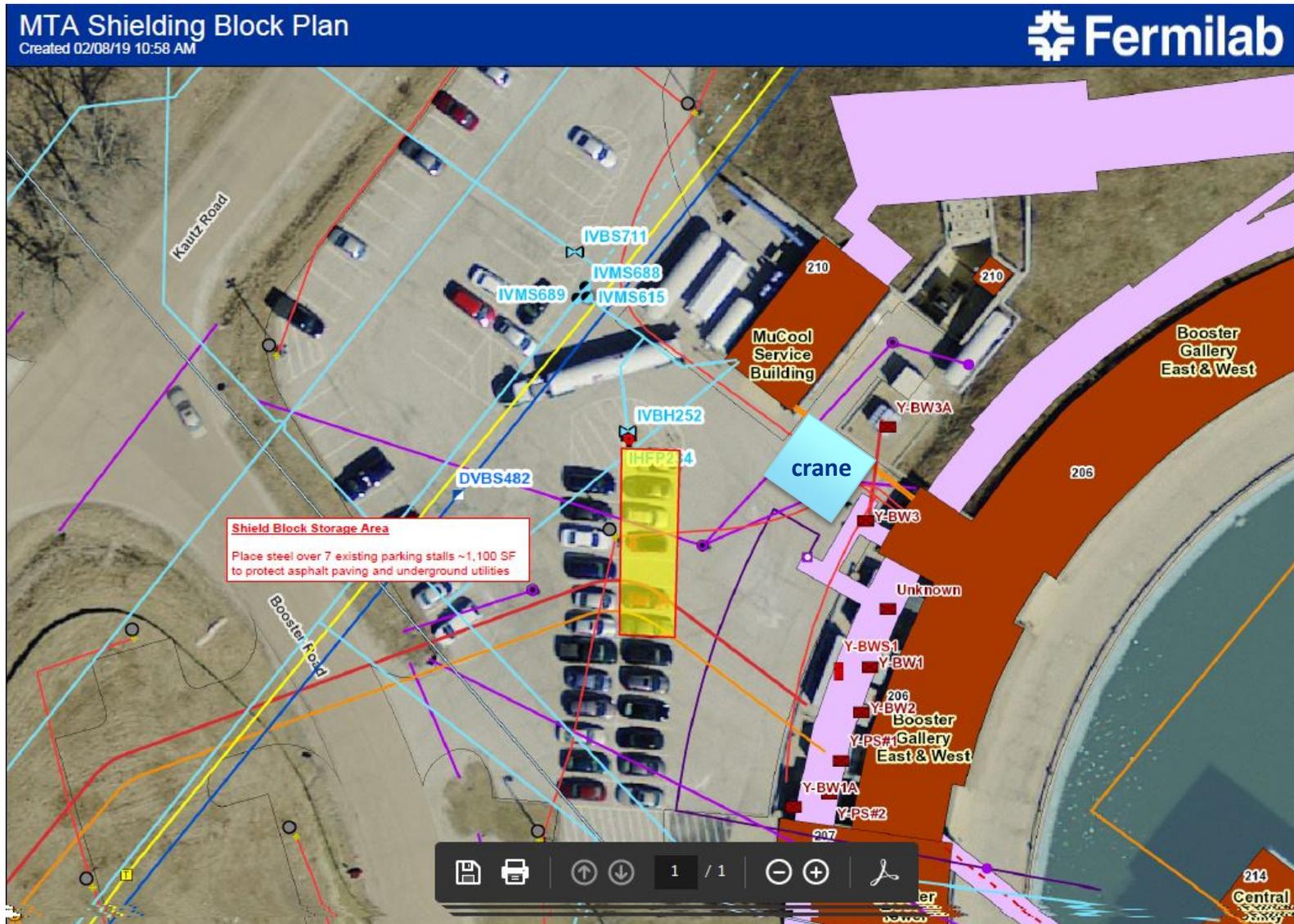
First hurdle: access to remove big items

200 T Crane and riggers
start Wednesday, March 20
estimate 2+ days

5 layers shielding blocks
with some steel embedded



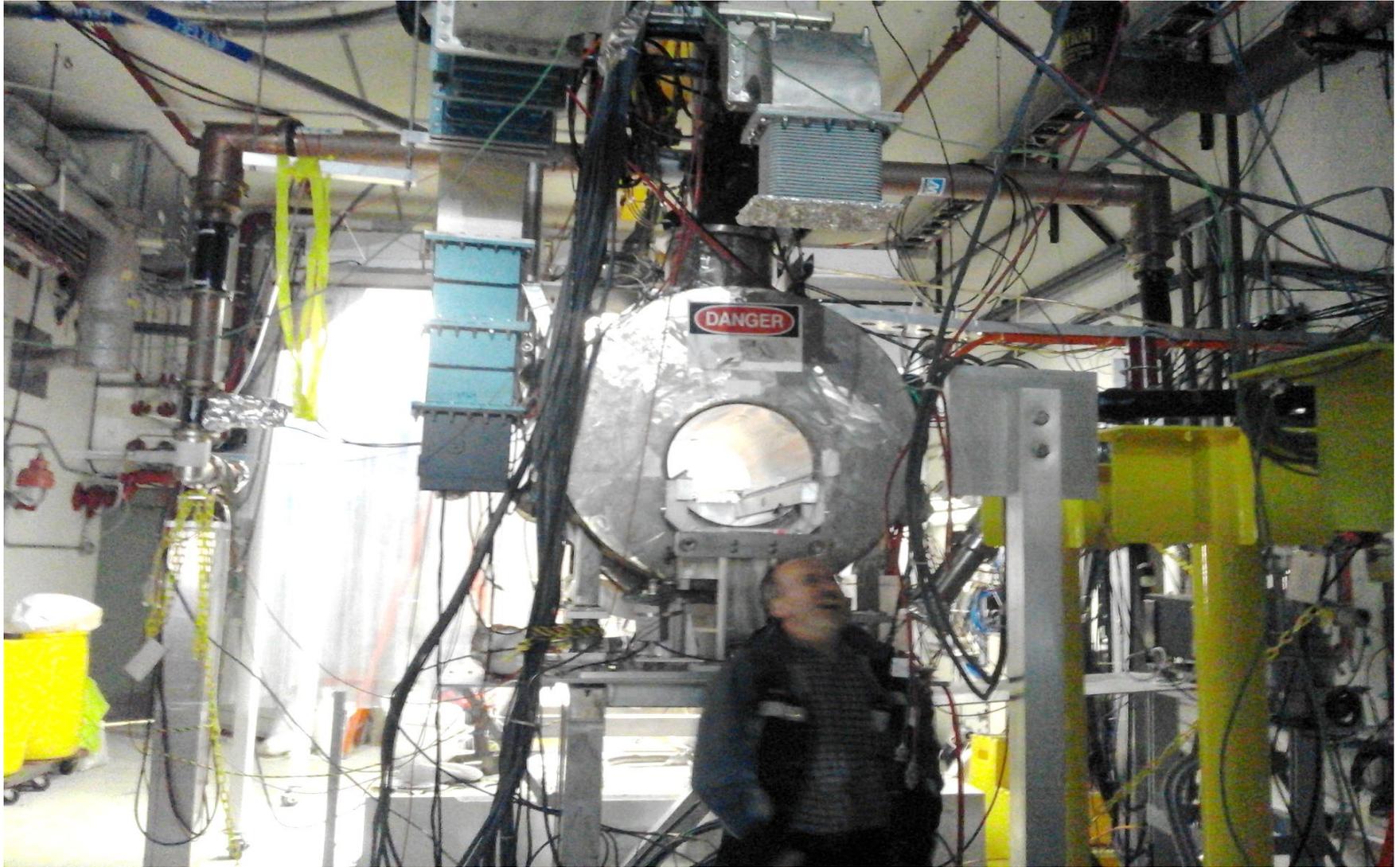
Loose 7 parking spaces – I already bet > 6 months



200 MHz RF Cavity – internal Be contamination wont' be cleaned



4 Tesla SC Solenoid – to Tech Div?



Beamline & other Be contaminated & rad items

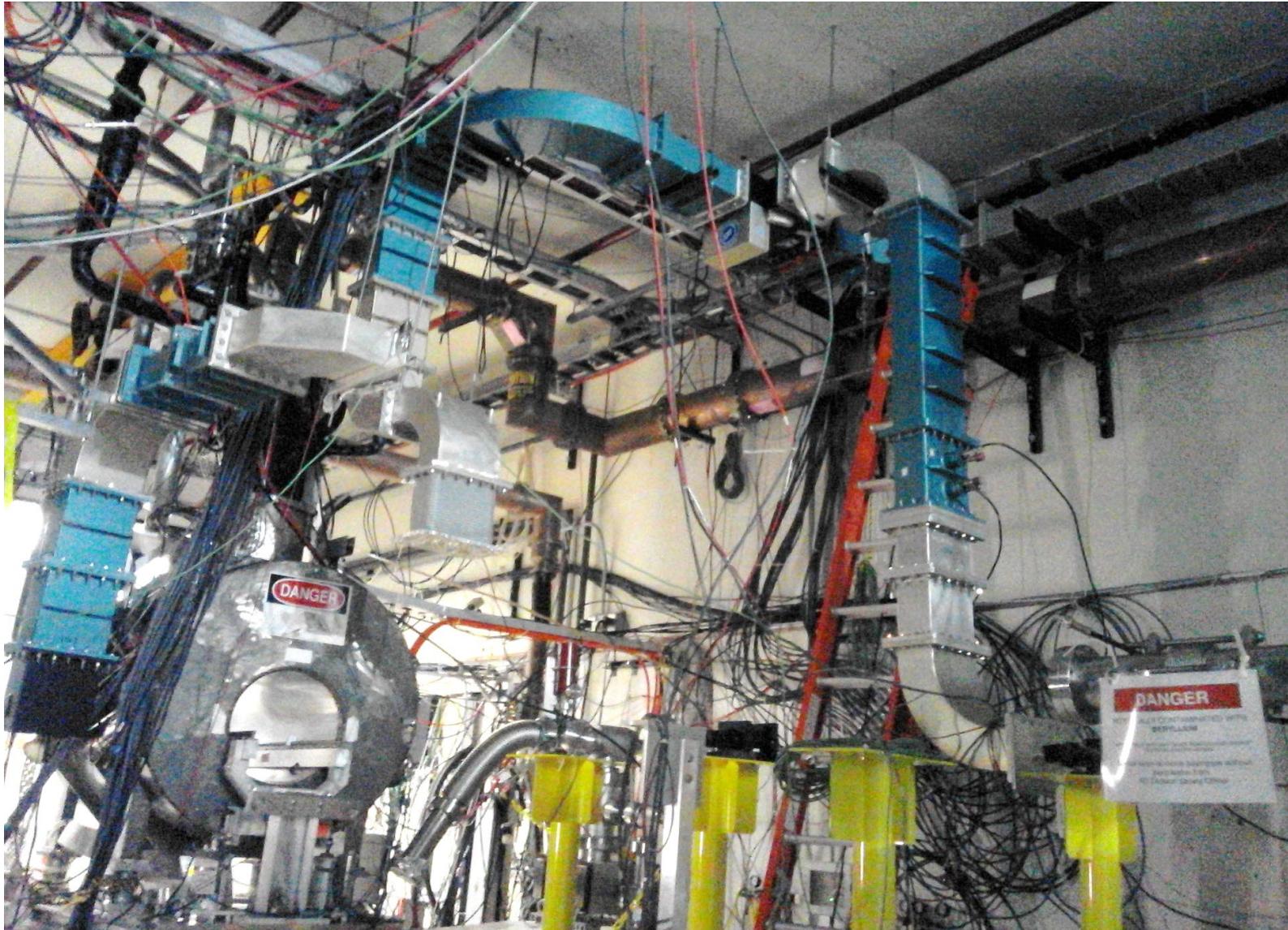


Upstream Waveguide/coax – Tan & Kiyomi to store



beam pipe stuffed with poly beads

MTA waveguide & coax (& SC solenoid)



Cryo Valve Box – on Mezzanine



Electrical & other Utilities, cables, cables, cables ...



Will also need to restore fire protection – damaged by ice in MTA service building

Thank you, *Peter*

Questions, Comments, Discussion:

- Mike Lindgren suggested we might want to consider requiring hard hats for future stages of demolition. Eric McHugh will consider adding this to the RWP.
- Eric McHugh will review PPD's Hazard Analysis 1768 dated February 4, 2019 for removal of the outdoor shielding wall.
- Daniel Broemmelsiek would like to salvage the explosion proof fixtures and fittings (were needed at MTA for operation with liquid hydrogen or hydrogen gas).