

Matt,

Have looked at constructing the pit 3' x 6' x 5' deep. Estimated cost is \$35,000.

There are many electric conduits embedded in the floor slab in this area. Power to Test Lab High Bay would need to be cut during demolition of slab (its 3' to 4' thick in this area). Demolition would likely last a week to ten days.

Let me know if this is something you would like to go forward with.

Thanks.

Tom

Hi Matt,

Minimum interior pit dimensions are 30" wide x 6 ft long (along the beam line). If the beam line height is 42", then the pit needs to have a minimum inside depth of 4' 6".

That said, I've been down the road of pits in the Test Lab twice before. There has always been a lot of resistance from FM – good luck.

Andy

On 9/9/14, 5:44 PM, "Matt Poelker" <[poelker@jlab.org](mailto:poelker@jlab.org)> wrote:

Hi Andy,

I asked Facilities to provide a cost estimate for a pit, that would allow us to install HDIce vertical, and then rotate horizontal for the beam, and thereby allow us to build a straight beamline at uniform height approximately 42" above the floor. I want to weigh the pros and cons of our two approaches: a) a straight beamline with pit, b) an elevated beamline with dipole chicane, no pit. For brevity, I mention that the chicane requires more quads to obtain a nice beam profile and we don't have lots of "z", so fitting in lots of quads represents a "con". Hence, I asked Facilities for an estimate to provide a pit.

So Facilities will work up the cost estimate, now I want your loose input on the size of the pit: transverse dimensions and depth. I say loose, because it's just a cost estimate. WE can refine the dimensions if we go that route.

Thanks,

Matt

----- Forwarded Message -----

Subject: Pit for Beam Line

Date: Tue, 09 Sep 2014 13:29:03 -0400

From: Tom Renzo <[renzo@jlab.org](mailto:renzo@jlab.org)> <<mailto:renzo@jlab.org>>

To: Matt Poelker <[poelker@jlab.org](mailto:poelker@jlab.org)> <<mailto:poelker@jlab.org>>

Matt,

I'm putting together a cost estimate for the 4' deep pit for the possible below floor level beam line chicane.

Do you have an approximate footprint that would be required for the pit?

Thanks,

Tom