



# Muon Cooling Effort

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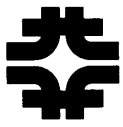
## Fermilab LINAC Test Area

Milorad Popovic

[http://www-bdnew.fnal.gov/proton\\_source/popovic/index.html](http://www-bdnew.fnal.gov/proton_source/popovic/index.html)

26-Sep-2001



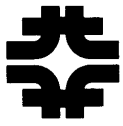


# View from the top of Wilson Hall

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# Close Up from High-rise

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# Near Future Activities as Define in Oct-2000

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## Warning

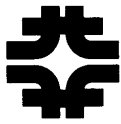
**Any usage of the facility should be completely parasitic to Linac Operations and maintenance. Construction will/should require only modest, ~ three weeks of invasive interaction with Linac, which will/should be schedule as part of regular shutdowns.**

### **1. Liquid Hydrogen Absorber test facility**

- a. Engineering Tests no Beam----Jun-2001
- b. Beam Related Hydrogen Absorber test -----Jun-2002
- c. Short Fully Integrated Cooling Section, H-Abs., Be-Window RF Cavity, SC Solenoid----Sep-2002

### **2. High Power RF Test Bed, 200MHz and 805MHz**

- a. Be Window RF Cavity, High Power RF Test---Sep-2002
- b. Grid Based RF Cavity, High Power Test—Sep-2002
- c. Cryo Cold Copper Cavity



# People&Groups

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- **Universities&FNAL**

D.Kaplan, M.A.Cummings,  
E.Black, J.Norem, D.Summers  
S.Geer, D.Errede,.....

- **FESS**

T.Lackowski-G.Leader  
J.Sims-Structural Eng.  
G.VanZandbergen-Architect

- **Cryo**

J.Theilacker  
B.Norris

- **Elec.Power**

J.Ranson, J.Lackey

- **Water**

- **Safety**

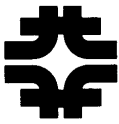
H.Casebolt-G.Leader  
M.Gerardi-Radiation  
M.Ferguson-Linac Area  
B.Fritz-Environment

- **LH2-Safety?**

J.Kilmer  
W.Smart

- **ProtonSource**

B.Webber-G.Leader  
C.Schmidt-Linac



## Target Dates, as Define in Oct-2000

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- ~~1-May-01 End of Civil Construction for Phase I~~
  - Start LH2 Target Installation
  - Start Helium Plant Installation
- 20-April-01 Start Helium Plant Removal from PS4
- ~~1-April-01 Cryo Moving/Assembly Contracts Awarded~~
- 15-March-01 Cryo Related Bids Out
- 1-March-01 Cryo Design Ready/Start of Civil Const.
- 15-Feb-01 Civil Const. Contracts Awarded
- 1-Feb-01 Const., LH2, He,.. Safety Issues Defined
- 15-Jan-01 Enclose&Cryo Building Bids Ready/Out
- 20-Dec-00 Enclose&Cryo Building Design Ready
- 15-Dec-00 Architectural Design Review by Lab B.C.



# History

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Jan-30-2001

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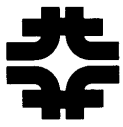


# View from the top of Linac Berm

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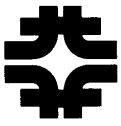




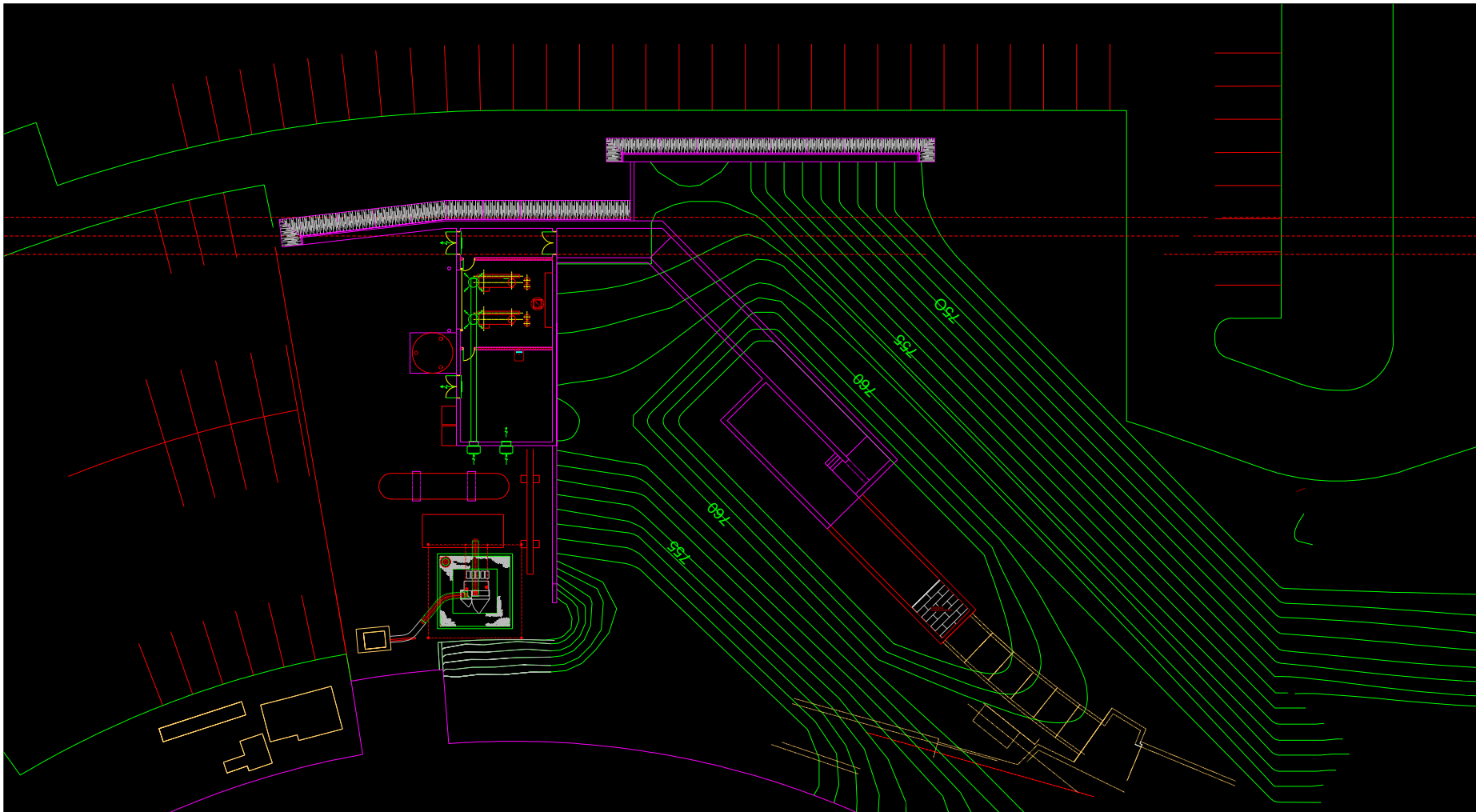
30-Aug-2001

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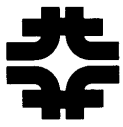




# Architectural Vision







# 1500kVA Transformer Piping

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