

Beamline Storage and Assembly Needs

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Primary Beam

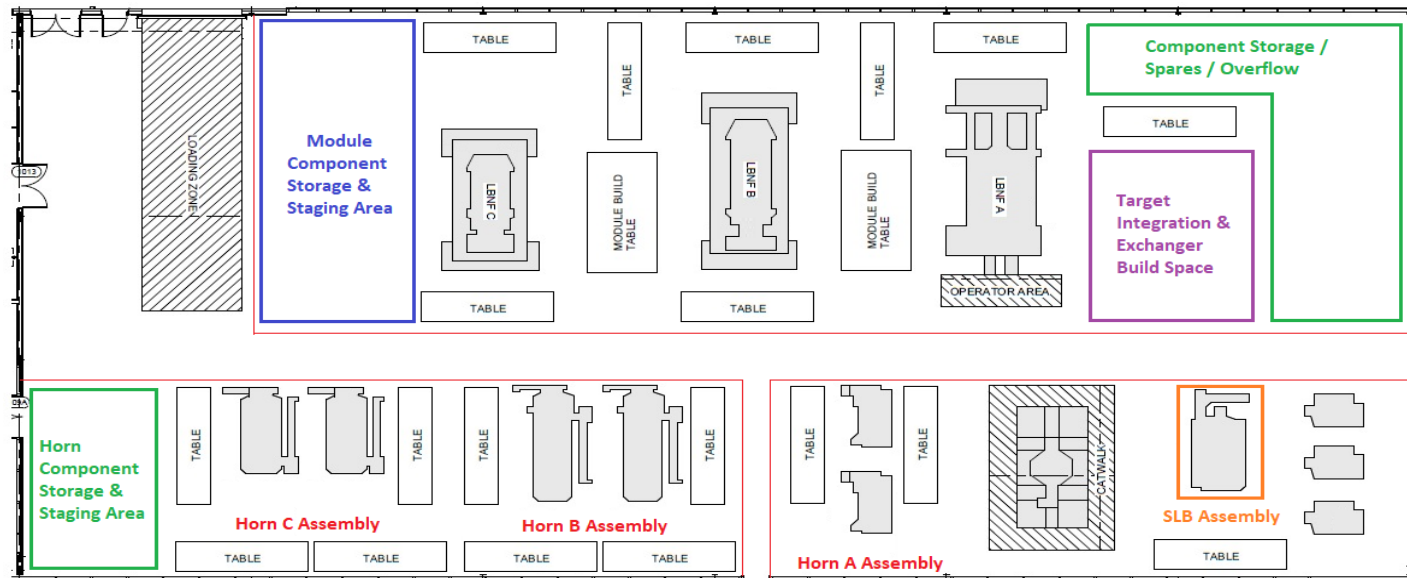
- Magnets
 - Correctors on site – stored in Village Lab 8
 - Main dipoles and quads
 - Require 30 ton crane
 - Agreement with PPD to store at Wideband (PB7)
 - Included in MOA
 - Lab supposed to upgrade crane controls
- Magnet Installation
 - No info yet on magnet stands
 - Guess ~500 sq ft indoor storage needed
 - Magnet mover
 - 25'x8' space needed when not in use

Primary Beam

- Power Supplies
 - 500 sq ft indoor staging space
 - Store cables in AD shipping containers
- LCW and Bus
 - 1200 sq ft close packed
 - Clearly larger
 - Pipe bundles, components on pallets, stack of copper bus
 - Probably store components and bus in shipping containers
 - SS pipe bundles might be on hardstand
 - All field assembled
- Vacuum
 - Guess 200 sq ft indoor storage for pipe and pumps
 - Field assembled

Neutrino Beamline: Horns and Target

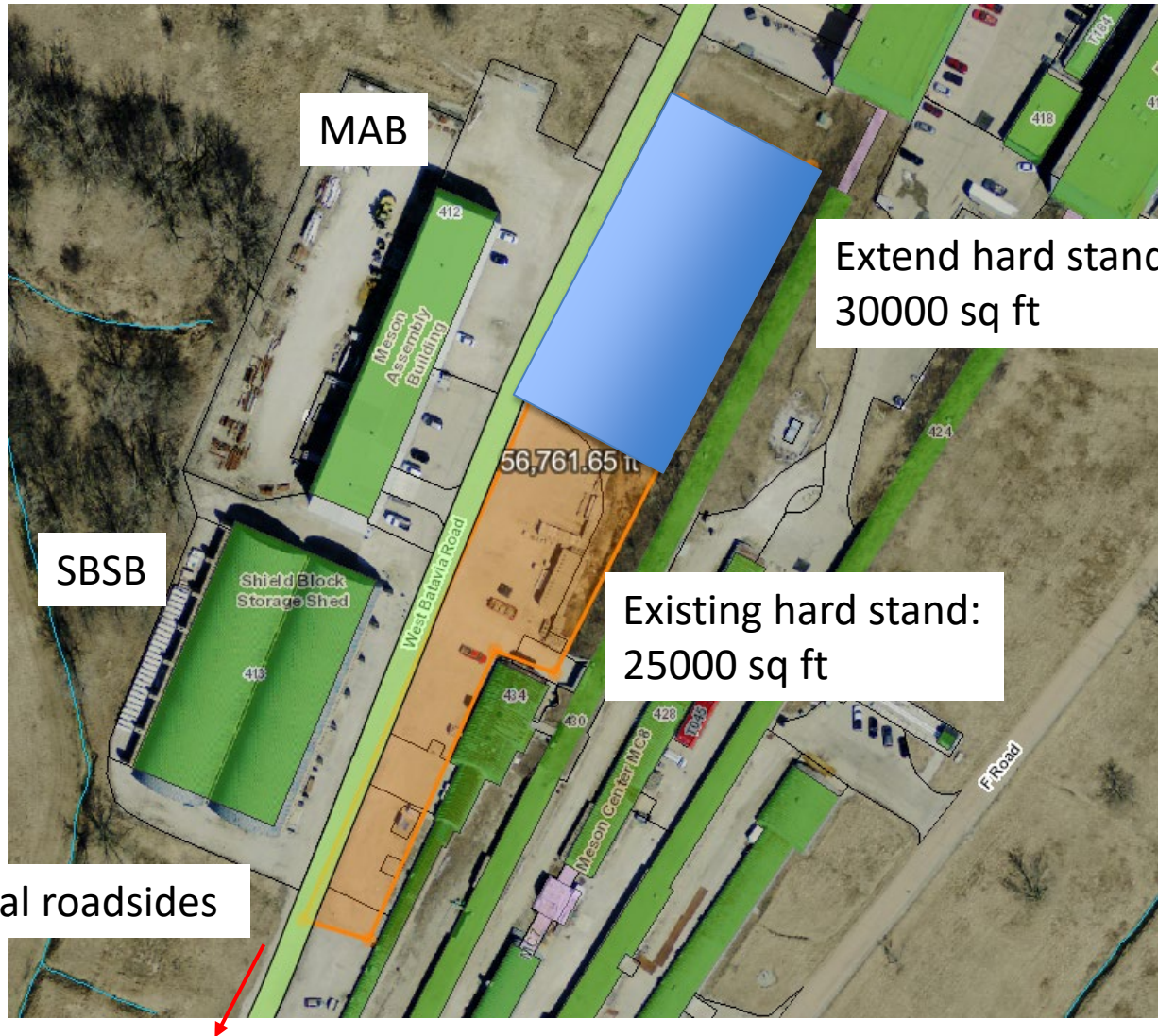
- MI8 and TSIB
 - Detailed planning underway
 - Excludes target cooling
 - Guess that cooling will need few 100 sq ft for major components and shipping container for small parts



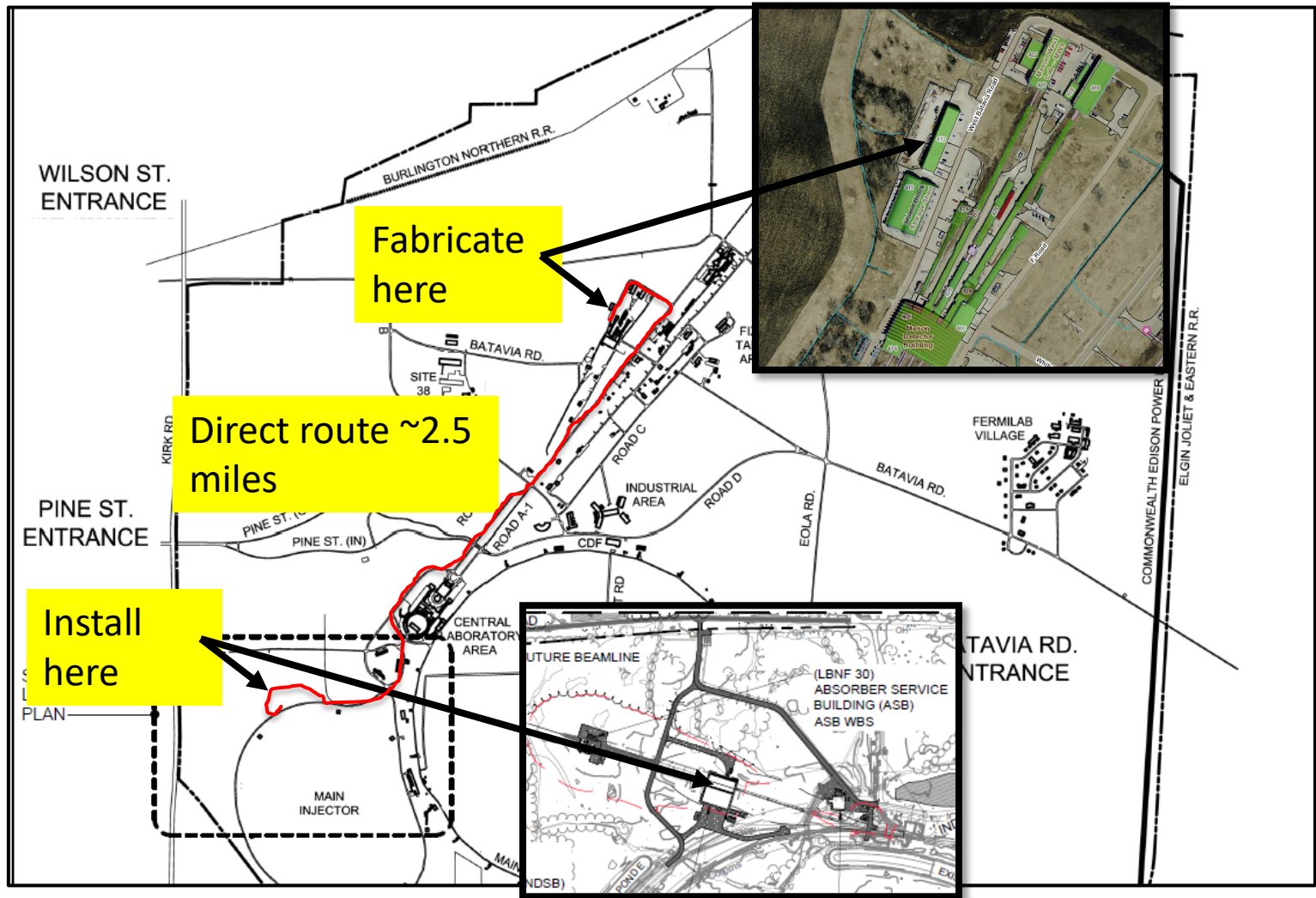
Neutrino Beamline: Target Shield Pile

- Bulk Shielding
 - Assembly at MAB
 - Storage required for raw material and finished blocks
 - Try to minimize handling and travel times
 - Storage can be outside
 - Covered with tarps
 - Suggest storing along a road to minimize space
 - 1.4 acres in a yard or 1700 ft along a road
- T-blocks and Hatch Covers need to be out of weather
 - Expect to use Shieldblock Storage Building (SBSB)
 - Need ~20k sq ft with 30T forklift
 - T-block fab either in industry or at MAB
- Carriage beams
 - OK for outdoor storage
- Cooling panels
 - 1000 sq ft out of weather (SBSB?)

Target Shield Pile: Fabrication and storage possibilities



Target Shield Pile: Route to Target Complex



Neutrino Beamline

- Horn Power Supply
 - 2000 sq ft needed for assembly
 - Indoors, crane, forklift access
- Stripline
 - No info yet. Guess ~2000 sq ft indoors for assembly
- Windows
 - Probably fits at MI8
- Absorber
 - 500 sq ft storage out of weather
 - Use SBSB
- Instrumentation
 - No info yet. Relatively small need. Probably accommodated within regular departmental space
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Neutrino Beamline

- RAW
 - Store the tanks, valves, fittings, skid frame hardware, and heat exchangers at A0 south.
 - Store the piping indoors -- at SBSB?
 - Fittings in Shipping containers at TC?
 - Some skids assembled in situ, smaller ones at vendor
- Remote Handling
 - Work cell, shield doors, morgue
 - Steel for doors etc. out of weather
 - ~1500 sq ft
 - SBSB?
 - Sensitive components need climate control
 - ~500 sq ft

System Integration

- Controls and Interlocks
 - Accommodate within departmental spaces