



# Site and Building Status

S. Dixon

September 6, 2006

Working Group Meeting



# Agenda

- Update on Ongoing Activities
- Change Status
- Upcoming Activities



# Update on Ongoing Activities

- WBS 1.1.1.1 - Topographic Survey
  - Complete
- WBS 1.1.1.2 – Subsurface Investigation
  - Short Elliot Hendrickson
  - Field work in late September/October
- WBS 1.1.1.3 - Wetland Delineation
  - Short Elliot Hendrickson
  - Field work started in mid-August
- WBS 1.1.1.4 – Update EAW
  - Short Elliot Hendrickson
  - Field work started in mid-August



# Update on Ongoing Activities

- WBS 1.1.2 – CDR Document Revision
  - In-House Revisions underway
  - Includes Risk Management work
- WBS 1.1.4.1 – Independent Cost Estimate Review
  - Burns and McDonnell
  - Includes Schedule Component
  - Draft Complete
- WBS 1.1.4.2 – Secondary Containment Study
  - Burns and McDonnell
  - Draft Complete – NOvA-doc-1021



# IC/S Review Cost Estimate

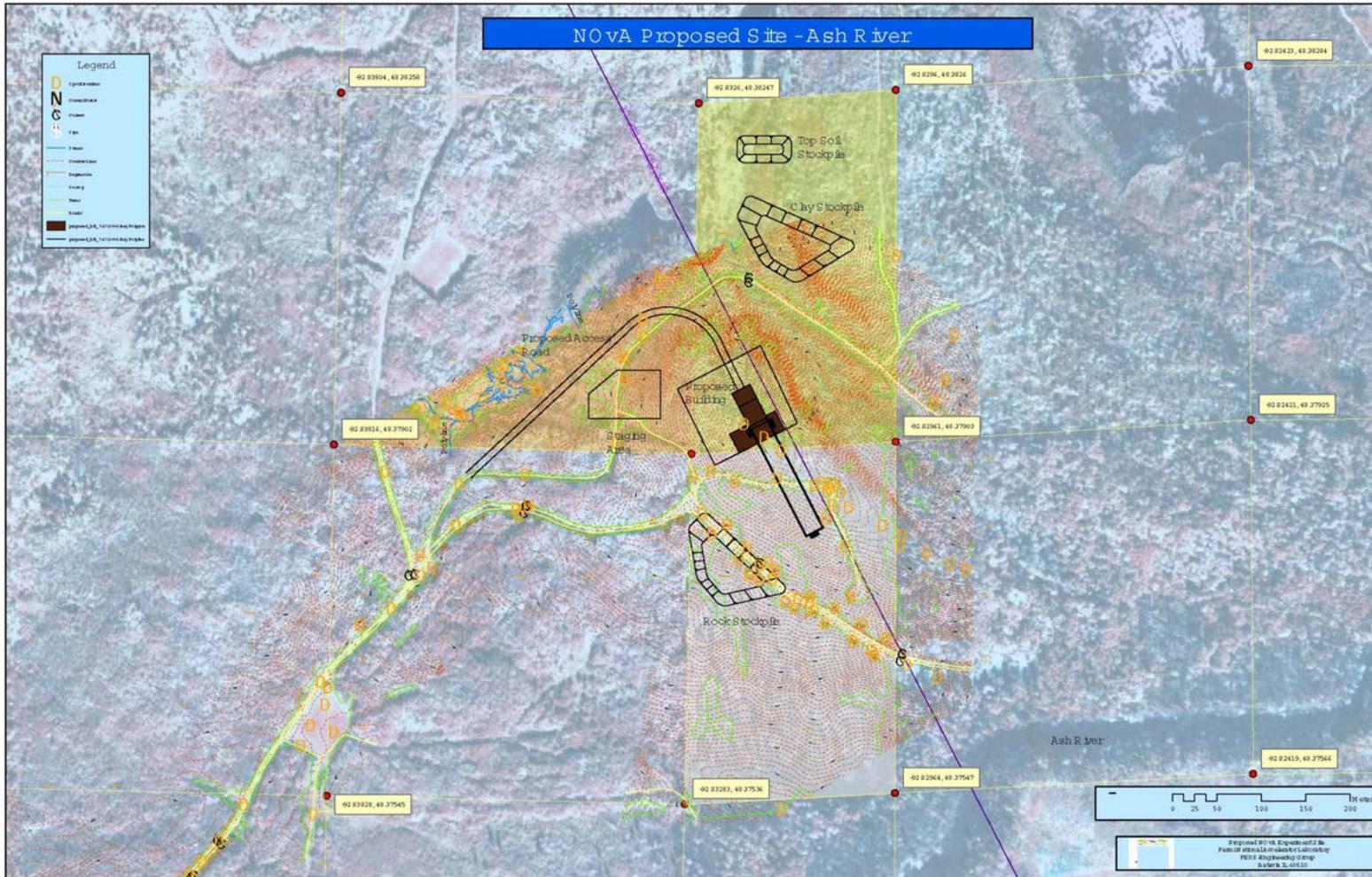
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	<b>BAC TOTAL</b>	<b>CONT</b>	<b>TOTAL</b>		
2.1 Site and Building	\$36,711,162	\$8,340,782	\$45,051,944		
2.1.1 Develop DB Criteira	\$461,079	\$115,270	\$576,349	X	\$576,349
2.1.2 Design/Build	\$31,166,301	\$6,921,064	\$38,087,365	X	\$38,087,365
2.1.3 Shield Wall	\$1,013,584	\$213,325	\$1,226,909	X	\$1,226,909
2.1.4 Site Logistics	\$1,927,346	\$580,795	\$2,508,141	X	\$2,508,141
2.1.5 Management	\$2,142,852	\$510,328	\$2,653,180		
<b>TOTALS</b>			<b>\$45,051,944</b>		<b>\$42,398,764</b>

<b>30 kton-&gt; 25 kton</b>	\$51,509,649 Burns and McDonnell 30 kton Estimate
<b>Reduction ratio</b>	\$49,560,116 Scaled to 25 kton
	\$2,653,180 Add Management
	<b>\$52,213,296 TOTAL</b>
	<b>\$7,161,352 Delta</b>



# Change Status



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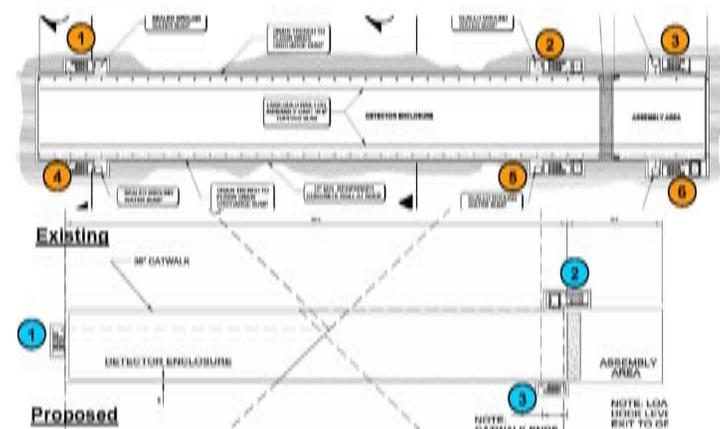
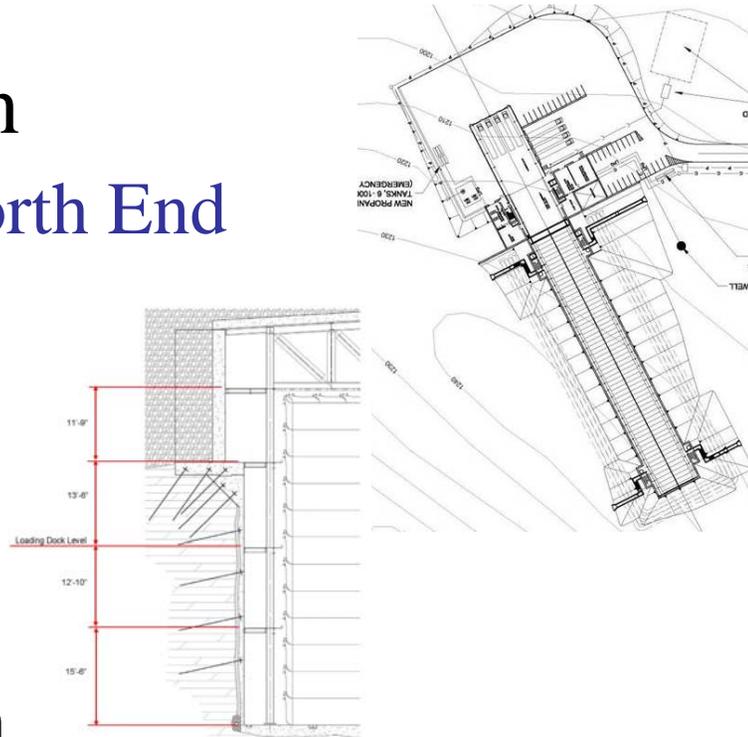
# Changes Under Consideration

- Building Orientation
  - Loading Dock at North End
  - NOvA-doc-984
- Catwalk Reduction
  - 7 levels to 4 levels
  - NOvA-doc-994
- Exit Stair Reduction
  - 6 exits to 3 exits
  - NOva-doc-994
  - Looking at 2 exit scheme

\$0k

-\$160k

-\$1,200k





# Change Status

- Crane
  - Reduced capacity from 25 tons to 10 tons

-\$35k

- Scintillator Building

- Separate Building
- Canopy + Pump House

+\$400k

-\$100k

- Elevators

- Reduce from 3 to 1
- Material Hoist?

-\$700k

- Top Access

- Removable Planks
- \$225k in estimate

\$??

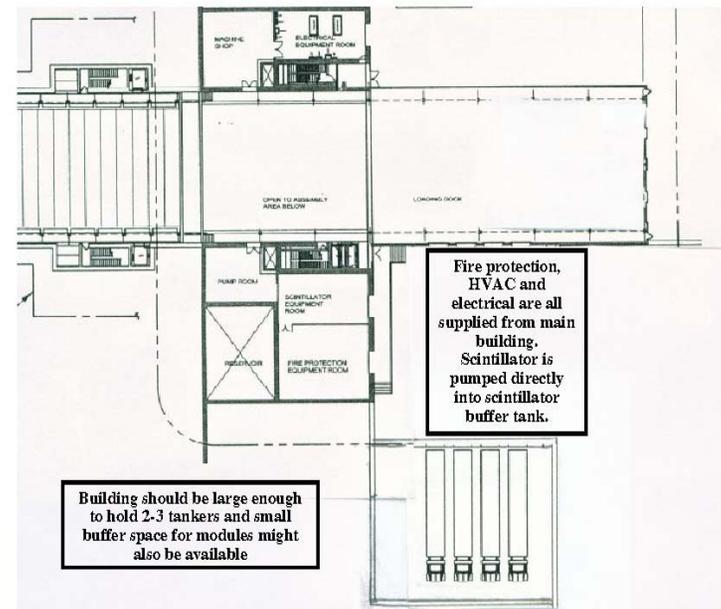


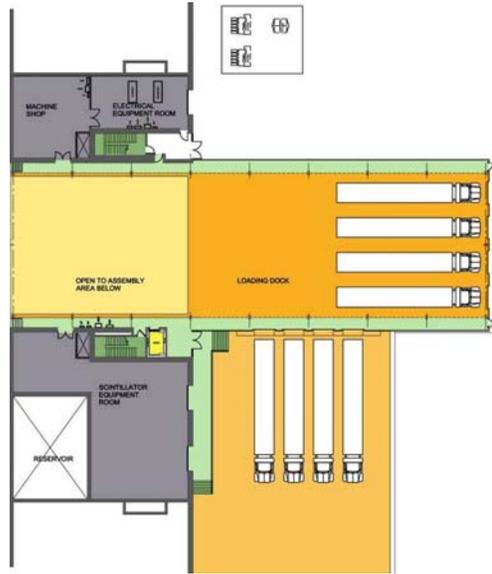
Figure 9: Scintillator Oil Receiving Building

B. Miller NOVA-doc-982



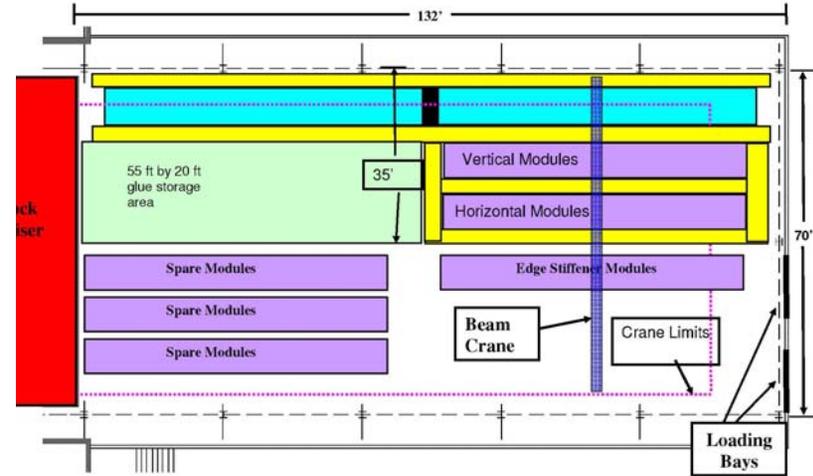
# Change Status – Loading Dock

**B.Miller Proposal, Doc 982**

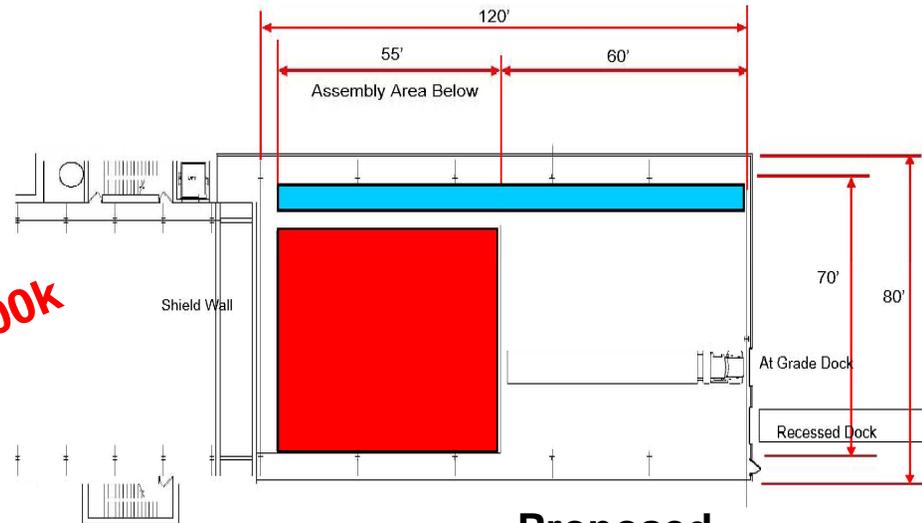


**Existing**

**+\$430k**



**+\$100k**



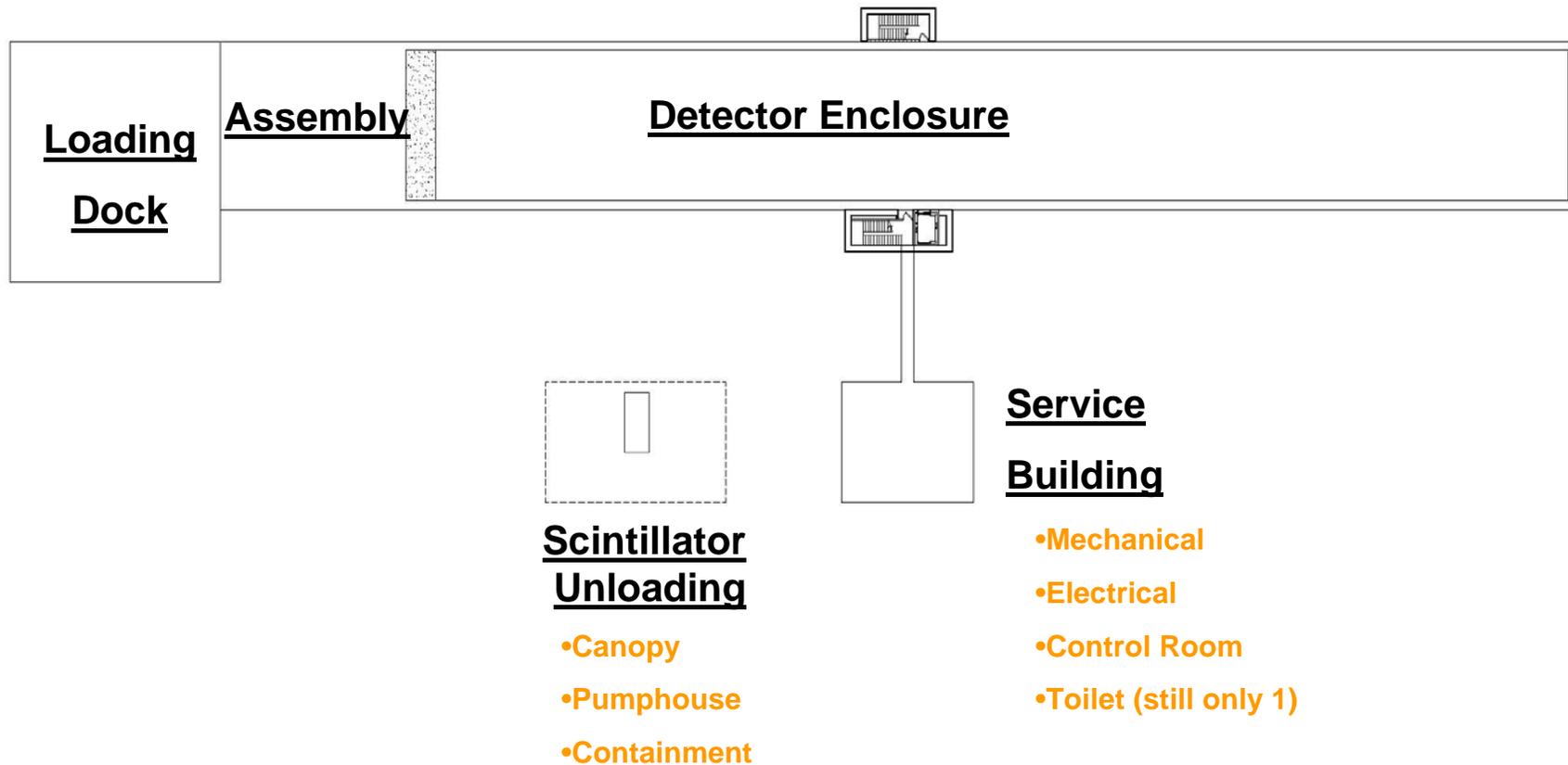
**Proposed**

**Issues:**

- Crane Span
- 2<sup>nd</sup> Floor Span

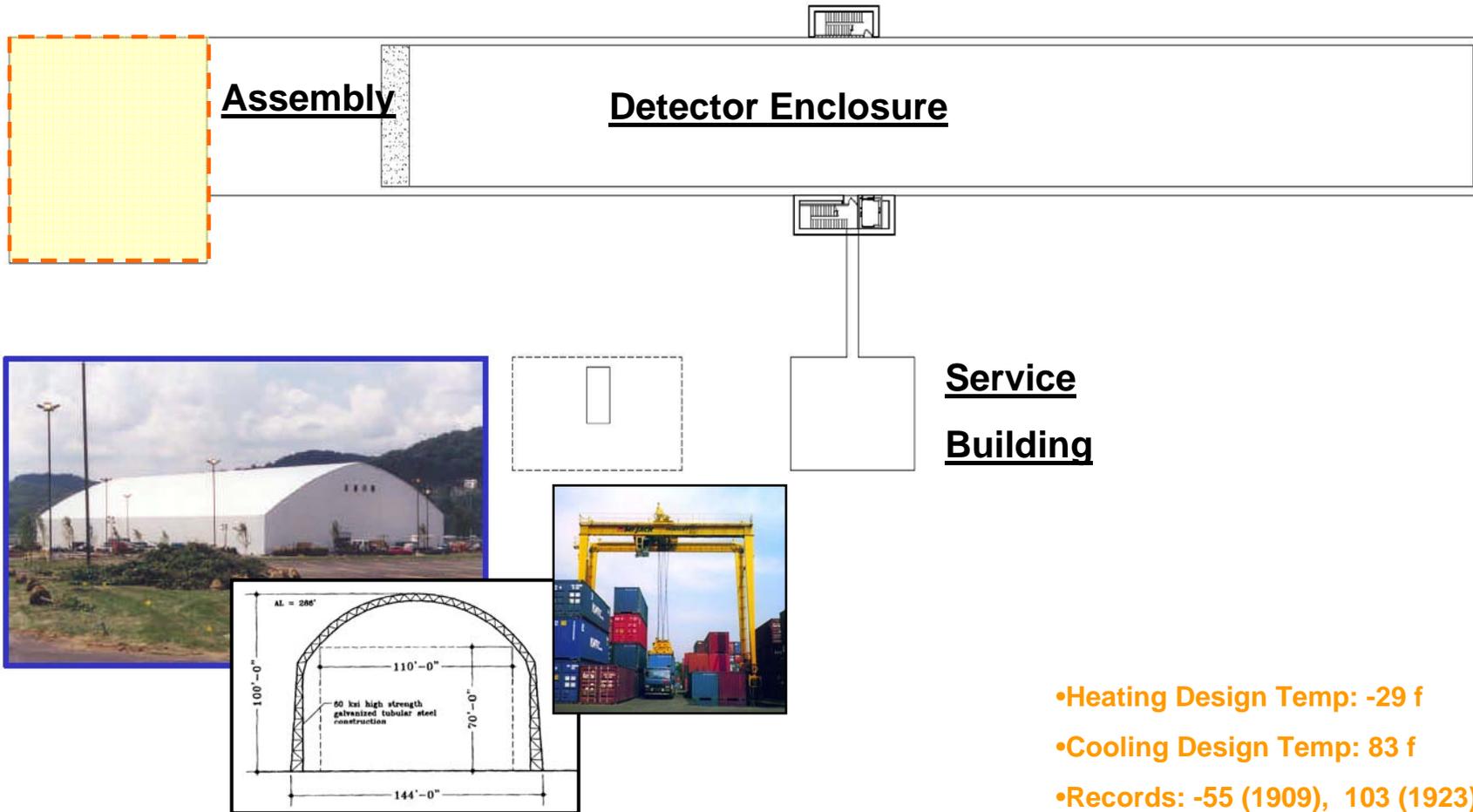


# Change Status – Loading Dock





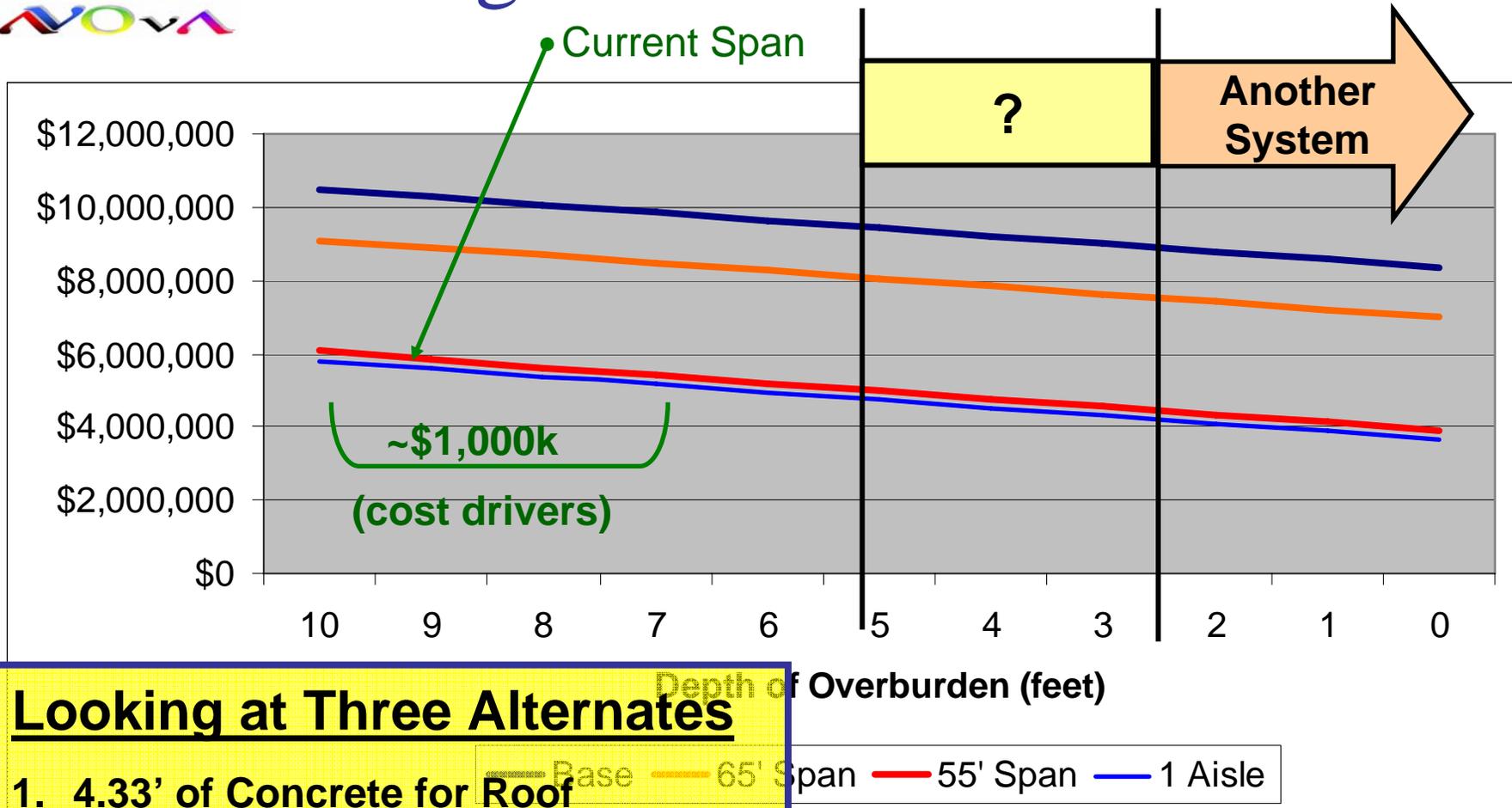
# Change Status – Loading Dock



- Heating Design Temp: -29 f
- Cooling Design Temp: 83 f
- Records: -55 (1909), 103 (1923)



# Change Status - Overburden



## Looking at Three Alternates

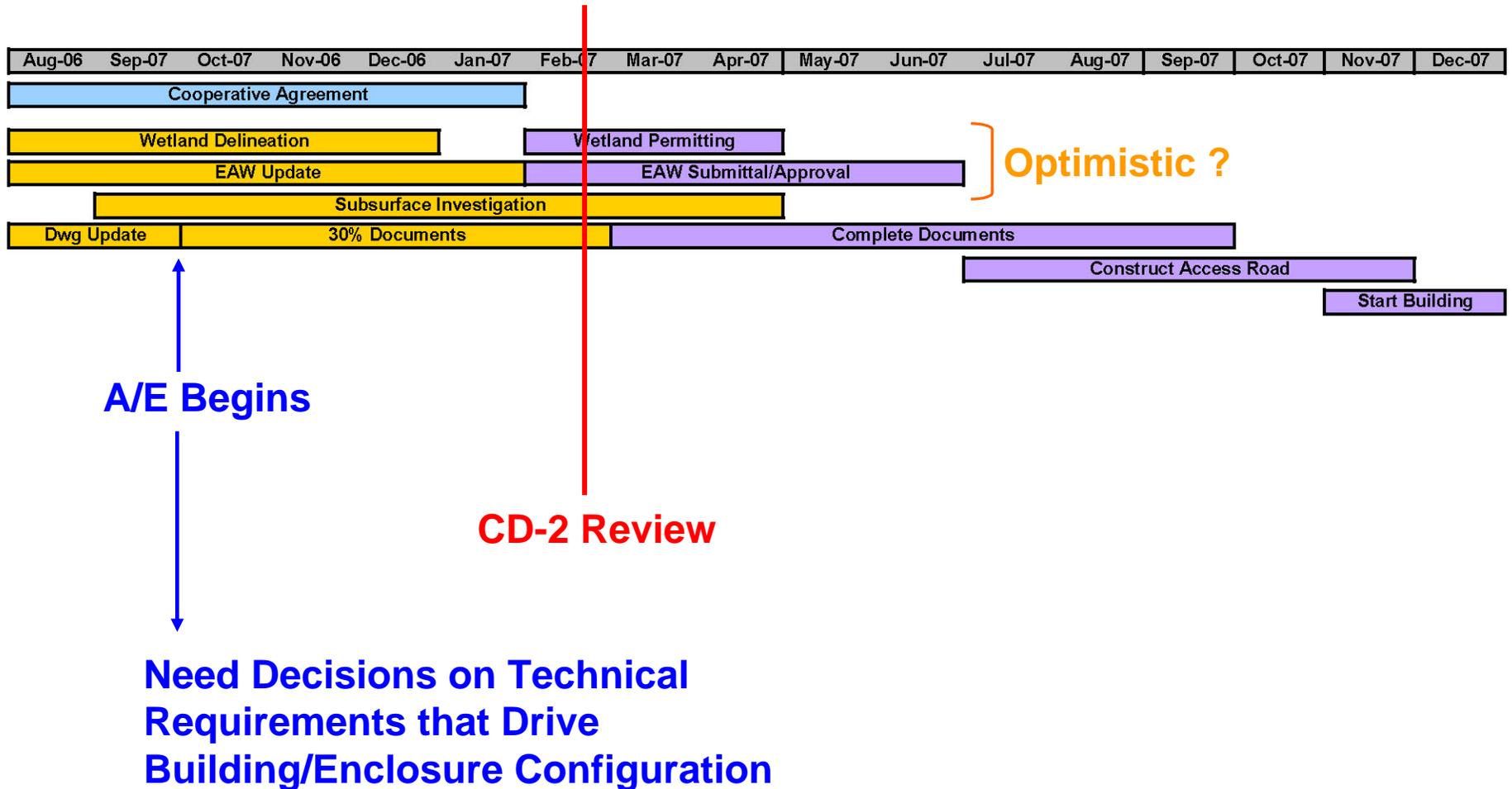
1. 4.33' of Concrete for Roof
2. 6.56' of Concrete for Roof
3. 1.5' of Concrete + 1.5' of Barite enhanced Concrete for Roof

NOVA-doc-140

**Stay tuned for John's talk**



# Upcoming Activities





# Information Needed

- Detector Envelope
  - height, width, length
- Block Raiser Requirements
  - Power, Space, Building Impact
- Bookends
- Glue Machine Requirements
  - Power, Space, Ventilation
- Shielding
- And more



## What's Next

- Understand Shielding Impact
- Site Investigation
  - EAW Update
  - Wetland Delineation
  - Subsurface Investigation
- Finalize Secondary Containment Study
- Begin Advanced Conceptual Design for Access Road
- Technical Requirements Document
- CD-2 in 2007