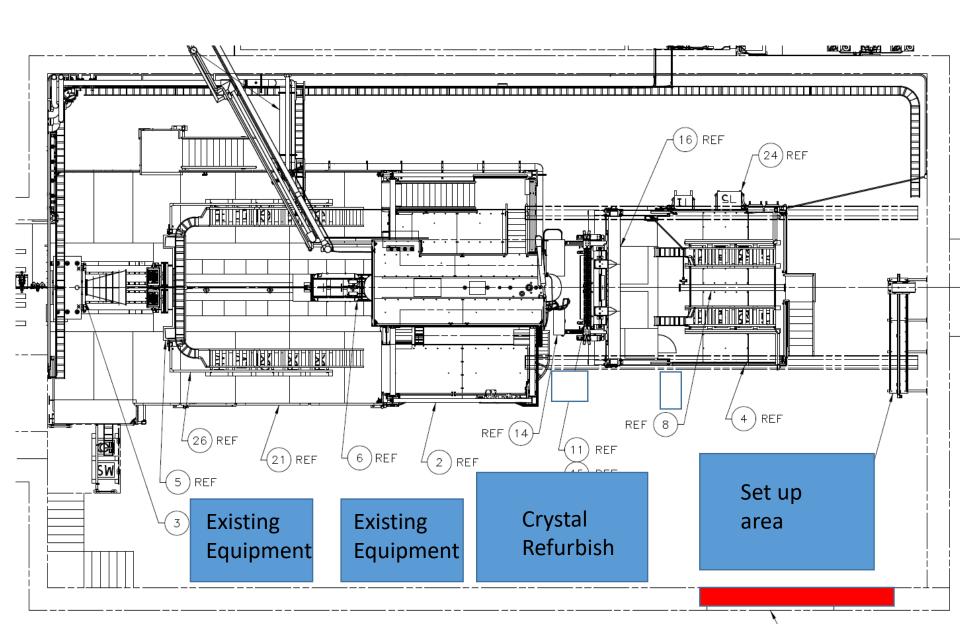
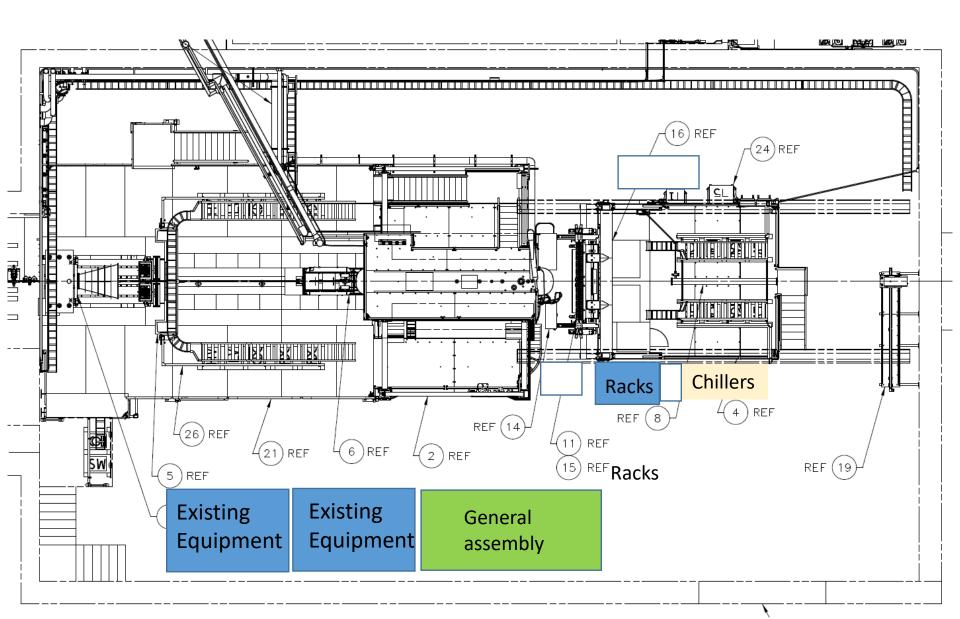
### Basic Install Schedule

•	■ Hall D Installation	870 days	Mon 9/21/20	Tue 2/13/24		
,	△ FCAL 2 Install	870 days		Tue 2/13/24		
,	▶ Complete Design	403 days	Mon 9/21/20	Fri 4/29/22		
	Component Procurements	201 days	Mon 5/2/22	Mon 2/6/23		
5		235 days	Wed 3/22/23	Tue 2/13/24		
9	Remove TOF & CCAL	5 days	Wed 3/22/23	Tue 3/28/23	35	∥ <u>h</u>
5	Remove Cables	11 days	Wed 3/29/23	Wed 4/12/23	16	Th
9	Remove Dark room/cable trays	12 days	Thu 4/13/23	Fri 4/28/23	17	∥   ≛₁
5	Disassemble FCAL Modules	17 days	Mon 5/1/23	Tue 5/23/23	18	∥   ┺₁
9	Remove liftable frame and disassemble	2 days	Wed 5/24/23	Thu 5/25/23	19	
9	Modify liftable frame	5 days	Fri 5/26/23	Thu 6/1/23	20	∥     K
5	Assemble new FCAL frame	10 days	Fri 6/2/23	Thu 6/15/23	21	∥     💃
5	Install and align liftable frame	2 days	Fri 6/16/23	Mon 6/19/23	22	1   1
-5	Refurbish old FCAL modules	90 days	Mon 5/1/23	Fri 9/1/23	19FS-17 days	<b>\</b>
-5	install Cooling blocks	2 days	Tue 6/20/23	Wed 6/21/23	23	l l
-5	Install FCAL 2 modules	83 days	Thu 6/22/23	Mon 10/16/23	24FS-60 days,25	
-5)	Install monitoring panes, rohacel and tungsten absorber, insulation	10 days	Tue 10/17/23	Mon 10/30/23	26	
<b>5</b>	Install new electrical power	5 days	Fri 6/16/23	Thu 6/22/23	22	∥ <u>K</u>
5	Install Racks	4 days	Fri 6/23/23	Wed 6/28/23	28	1 1
5	Install crates	2 days	Fri 6/23/23	Mon 6/26/23	28	
-5	Install water cooling system	7 days	Tue 10/17/23	Wed 10/25/23	26	
-3	Install Dark room/cable trays	15 days	Thu 10/26/23	Wed 11/15/23	31	<b>∥</b>   <b>≛</b> ₁
<b>5</b>	Install cables	40 days	Thu 11/16/23	Wed 1/10/24	32	
9	Test all systems	24 days	Thu 1/11/24	Tue 2/13/24	33	
*	Hall Opens 2023	1 day	Tue 3/21/23	Tue 3/21/23		<b>→</b> 3/21

# Installation Space Usage



# Final Space Usage



### Labor Requirements

- Detector removal
  - Cables electronics/tech group
  - Darkroom tech group
  - Lead Glass Blocks students/tech group?
  - Frame tech group
- Lead Glass module refurbish students?
- Frame assembly/install tech group
- Module stacking students/tech group
- Darkroom Install tech group
- Cabling electronics/tech group
- Testing electronics/Scientists

### Equipment needed

- Detector removal
  - Cables ladders/manlift
  - Darkroom ladders/manlift
  - Lead Glass Blocks ladders/manlift/gloves/tables/crates/shelving
  - Frame ladders/manlift/crane
- Lead Glass module refurbish cleanroom/gloves/tables/crates/shelving
- Frame assembly/install ladders/manlift
- Module stacking adders/manlift/gloves/tables
- Darkroom Install ladders/manlift
- Cabling ladders/manlift
- Testing ladders/manlift/scopes